

APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval. This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the [DSA Forms](#) or [DSA Publications](#) webpages.

1. SUBMITTAL TYPE: (Is this a resubmittal? Yes ☐ No ☒)			
Deferred Submittal ☐	Addendum Number: 01	Revision Number:	CCD Number: Category A ☐ or B ☐
2. PROJECT INFORMATION:			
School District/Owner: San Beranrdo City USD		DSA File Number: 36 H7	
Project Name/School: Indian Springs HS - Health Center		DSA Application Number 04 123900	
3. APPLICANT INFORMATION:			
Date Submitted: 09/11/25		Attached Pages? No ☐ Yes ☒ Number of pages? 89	
Firm Name: Ruhnau Clarke Architects		Contact Name: Krys Thompson	
Work Email: dsa@ruhnaucclarke.com		Work Phone: (951) 684-4664	
Firm Address: 3775 Tenth Street		City: Riverside	State: CA Zip Code: 92501
4. REASON FOR SUBMITTAL: (Check applicable boxes)			
☒ For revision or addendum prior to construction.		☐ For a project currently under construction.	
☐ For a project that has a form DSA 301-N: <i>Notification of Requirement for Certification</i> , DSA 301-P: <i>Posted Notification of Requirement for Certification</i> or a 90-Day Letter issued.			
☐ To obtain DSA approval of an existing uncertified building or buildings.			
☐ For Category B CCD this is: ☐ a voluntary submittal, ☐ a DSA required submittal (attach DSA notice requiring submission).			
5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:			
Name of the Design Professional In General Responsible Charge: Roger Clarke			
Professional License Number: C-21340		Discipline: Architect	
Design Professional in General Responsible Charge Statement: The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project. Signature: _____ DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE			
6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:			
For addenda, revisions, or CCDs: CHECK THIS BOX ☒ to confirm that <i>all</i> post-approval documents have been stamped and signed by the Responsible Design Professional listed on form <i>DSA 1: Application for Approval of Plans and Specifications</i> for this project. (For <i>Deferred Submittals</i> , refer to <i>IR A-18: Use of Construction Documents Prepared by Other Professionals</i> , and <i>IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents</i> , when applicable, for signature and seal requirements.)			
Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed): Please see attached narrative for description of changes			
List of DSA-approved drawings affected by this post-approval document: Please see attached narrative for list of affected drawings			

DSA USE ONLY		
SSS _____ Date _____ ☐ Approved ☐ Disapproved ☐ Not Required Comments: _____ FLS _____ Date _____ ☐ Approved ☐ Disapproved ☐ Not Required Comments: _____ ACS _____ Date _____ ☐ Approved ☐ Disapproved ☐ Not Required Comments: _____	Returned Date: _____ By: _____	DSA STAMP



September 11, 2025

ADDENDUM NO. 1

TO THE CONTRACT DOCUMENTS

FOR

Indian Springs High School – Health Center

FOR THE

San Bernardino City Unified School District
777 North 'F' Street
San Bernardino, CA 92410

DSA #04-123900 FILE #36-H7 RCA Project No. 1-78-50

NOTICE TO BIDDERS

This Addendum forms a part of the Contract and modifies the original documents of DSA Approved on March 18, 2025. It is intended that all work affected by the following modifications shall conform with related provisions and general conditions of the contract of the original drawings and specifications. Modify the following items wherever appearing in any drawing or sections of the specifications. Acknowledge receipt of Addendum No. 1 in the space provided on the Bid Form. Failure to do so may subject the bidder to disqualification.

CHANGES TO THE SPECIFICATIONS

- | | |
|--------------|--|
| Item No. 1.1 | Reference Section 00 01 10 – Table of Contents |
| 1.1.1 | Replace Specification Section in its entirety. |
| Item No. 1.2 | Reference New Section 08 56 59 – Service and Teller Window Units |
| 1.2.1 | Add New Specification Section in its entirety. |
| Item No. 1.3 | Reference Section 08 80 00 – Glazing |
| 1.3.1 | Replace Specification Section in its entirety. |
| Item No. 1.4 | Reference New Section 23 23 00 – Refrigerant Piping |
| 1.4.1 | Add New Specification Section in its entirety. |
| Item No. 1.5 | Reference New Section 23 81 26.13 – Small Capacity Split-System Air Conditioners |
| 1.5.1 | Add New Specification Section in its entirety. |

CHANGES TO THE DRAWINGS

CIVIL

- | | |
|--------------|--|
| Item No. 1.6 | Reference Sheet C-3.0 – GRADING PLAN |
| 1.6.1 | Replace Sheet C-3.0 and revise per clouded areas & items listed below: |
| | (a) Revised grading (per new topographic survey) at New Passenger Drop Off in front of Existing Building 'B' |

ARCHITECTURAL

- Item No. 1.7 Reference Sheet G-2 – CODE ANALYSIS FLOOR PLAN
1.7.1 Replace Sheet G-2 and revise per clouded areas & items listed below:
 (a) Revised floor plan background. No changes to code analysis.
- Item No. 1.8 Reference Sheet G-4 – EGRESS & SIGNAGE PLAN
1.8.1 Replace Sheet G-4 and revise per clouded areas & items listed below:
 (a) Revised egress & signage to reflect the revised floor plan layout
- Item No. 1.9 Reference Sheet A1-1.0 – DEMO & NEW FLOOR PLANS
1.9.1 Replace Sheet A1-1.0 and revise per clouded areas & items listed below:
 (a) Detail 1, Revised floor plan layout
 (b) Detail 2, revised existing slab removals based on updated MEP layouts
- Item No. 1.10 Reference Sheet A1-2.0 – DEMO & NEW RCP
1.10.1 Replace Sheet A1-2.0 and revise per clouded areas & items listed below:
 (a) Detail 2, Revised floor plan layout
- Item No. 1.11 Reference Sheet A1-3.0 – DEMO & NEW ROOF PLAN
1.11.1 Replace Sheet A1-3.0 and revise per clouded areas & items listed below:
 (a) Revised roof plan to match updated mechanical layout
- Item No. 1.12 Reference Sheet A1-5.0 – BUILDING SECTIONS
1.12.1 Replace Sheet A1-5.0 and revise per clouded areas
- Item No. 1.13 Reference Sheet A1-6.0 – WALL SECTIONS
1.13.1 Replace Sheet A1-6.0 and revise per clouded areas
- Item No. 1.14 Reference Sheet A1-7.0 – ENLARGED PLANS / INTERIOR ELEVATIONS
1.14.1 Replace Sheet A1-7.0 and revise per clouded areas & items listed below:
 (a) Detail 1, revised to reflect new restroom location on revised floor plan layout
 (b) Detail 2, reduced size of Lobby Reception Desk
 (c) Removed Detail 3, no longer applies to project
 (d) Detail 5, revised to reflect the revised floor plan layout
- Item No. 1.15 Reference Sheet A1-7.1 – INTERIOR ELEVATIONS
1.15.1 Replace Sheet A1-7.1 and revise per clouded areas & items listed below:
 (a) Revised Interior Elevations to reflect the revised floor plan layout
- Item No. 1.16 Reference Sheet A1-7.2 – INTERIOR ELEVATIONS
1.16.1 Replace Sheet A1-7.2 and revise per clouded areas & items listed below:
 (a) Details 1, 2 & 3, revised to reflect the revised floor plan layout
 (b) Added New Detail 4
- Item No. 1.17 Reference Sheet A1-8.0 – DOOR & WINDOW SCHEDULE
1.17.1 Replace Sheet A1-8.0 and revise per clouded areas & items listed below:
 (a) Door Schedule, revised finishes
 (b) Window Type A & C, revised glazing finish
 (c) Window Type D, reduced width to reflect floor plan layout
 (d) Added New Window Type E
 (e) Added New Window Type F

INTERIOR DESIGN

- Item No. 1.18 Reference Sheet ID-1.0 - FINISHES PLAN / SCHED & CMF LEGEND
- 1.18.1 Replace Sheet ID-1.0 and revise per clouded areas & items listed below:
- (a) Revised floor plan layout
 - (b) Revised Room Finish Schedule
 - (c) Revised C.M.F. Legend

ARCHITECTURAL DETAILS

- Item No. 1.19 Reference Sheet AD-2.1 - WALL DETAILS
- 1.19.1 Replace Sheet AD-2.1 and revise per clouded areas & items listed below:
- (a) Detail 22, revised to match floor plan layout
- Item No. 1.20 Reference Sheet AD-2.2 - WALL DETAILS
- 1.20.1 Replace Sheet AD-2.2 and revise per clouded areas & items listed below:
- (a) Removed Detail 4, no longer applies
- Item No. 1.21 Reference Sheet AD-6.0 - DOOR & WINDOW DETAILS
- 1.21.1 Replace Sheet AD-6.0 and revise per clouded areas & items listed below:
- (a) Added New Details 23, 24, 25 & 30 for New Sliding Window Type E at SWSS Clerk #112
 - (b) Added New Details 26, 27, 28, & 29 for New Interior Window Type F

STRUCTURAL

- Item No. 1.22 Reference Sheet S0-2.4 - TYPICAL WOOD DETAILS
- 1.22.1 Replace Sheet S0-2.4 and revise per clouded areas & items listed below:
- (a) Detail 6, revise Holdown Anchor Schedule
- Item No. 1.23 Reference Sheet S1-1.1 - FOUNDATION PLAN
- 1.23.1 Replace Sheet S1-1.1 and revise per clouded areas & items listed below:
- (a) Revised Foundation Plan in coordination with Architectural changes
- Item No. 1.24 Reference Sheet S1-3.1 - ROOF FRAMING PLAN
- 1.24.1 Replace Sheet S1-3.1 and revise per clouded areas & items listed below:
- (a) Revised Roof Framing Plan in coordination with Architectural & MEP changes
- Item No. 1.25 Reference Sheet SD-4.2 - ROOF FRAMING DETAILS
- 1.25.1 Replace Sheet SD-4.2 and revise per clouded areas & items listed below:
- (a) Detail 8, removed detail in its entirety
 - (b) Detail 11, revised in coordination with Architectural changes
 - (c) Detail 16, added new detail

MECHANICAL

- Item No. 1.26 Reference Sheet M0-1.0 - MECHANICAL LEGENDS NOTES & SCHEDULES
- 1.26.1 Replace Sheet M0-1.0 and revise per clouded areas & items listed below:
- (a) Added refrigerant pipe material and refrigerant pipe insulation schedules
- Item No. 1.27 Reference Sheet M0-1.1 - MECHANICAL SCHEDULES CONT.
- 1.27.1 Replace Sheet M0-1.1 and revise per clouded areas & items listed below:
- (a) Revised "area served", "Supply CFM", and "Min/MAX OSA" of existing AC-3
 - (b) Revised selection & performance for new AC-3B
 - (c) Added indoor and outdoor unit schedules
- Item No. 1.28 Reference Sheet M0-1.2 - ENV TITLE 24 COMPLIANCE DOCUMENTS
- 1.28.1 Replace Sheet M0-1.2 and revise per clouded areas & items listed below:
- (a) Revised T24 reports
- Item No. 1.29 Reference Sheet M0-1.3 - MCH TITLE 24 COMPLIANCE DOCUMENTS
- 1.29.1 Replace Sheet M0-1.3 and revise per clouded areas & items listed below:
- (a) Revised T24 reports

Item No. 1.30 Reference Sheet M0-1.4 - MCH TITLE 24 COMPLIANCE DOCUMENTS
1.30.1 Replace Sheet M0-1.4 and revise per clouded areas & items listed below:
 (a) Revised T24 reports

Item No. 1.31 Reference Sheet M1-1.1 - MECHANICAL REMODEL FLOOR PLAN
1.31.1 Replace Sheet M1-1.1 and revise per clouded areas & items listed below:
 (a) Revised air distribution for AC-3 and AC-3B
 (b) Revised location of existing thermostat for AC-3
 (c) Revised location of new thermostat and CO2 sensor for AC-3B
 (d) Revised location of new exhaust duct thru roof
 (e) Added new IU-1 and refrigerant piping
 (f) Added new general notes #15 & #16

Item No. 1.32 Reference Sheet M1-2.1 - MECHANICAL REMODEL ROOF PLAN
1.32.1 Replace Sheet M1-2.1 and revise per clouded areas & items listed below:
 (a) Revised location of new EF-3B
 (b) Added new OU-1 & refrigerant piping
 (c) Added new general notes #5 & #6

Item No. 1.33 Reference Sheet MD-1.2 - MECHANICAL DETAILS CONT.
1.33.1 Replace Sheet MD-1.2 and revise per clouded areas & items listed below:
 (a) Added new details #2, #3, #4, #5, #6 and #7

PLUMBING

Item No. 1.34 Reference Sheet P0-1.0 - PLUMBING LEGENDS NOTES & SCHEDULES
1.34.1 Replace Sheet P0-1.0 and revise per clouded areas & items listed below:
 (a) Revised sink count and FU in Plumbing sizing form

Item No. 1.35 Reference Sheet P1-1.1 - PLUMBING DEMOLITION FLOOR PLAN
1.35.1 Replace Sheet P1-1.1 and revise per clouded areas & items listed below:
 (a) Revised HW, HWR & CW piping demolition scope

Item No. 1.36 Reference Sheet P1-2.0 - PLUMBING REMODEL FOUNDATION PLAN
1.36.1 Replace Sheet P1-2.0 and revise per clouded areas & items listed below:
 (a) Revised new waste connections to existing waste pipe

Item No. 1.37 Reference Sheet P1-2.1 - PLUMBING REMODEL FLOOR PLAN -WASTE, VENT & COND
1.37.1 Replace Sheet P1-2.1 and revise per clouded areas & items listed below:
 (a) Revised new condensate connection to sink location
 (b) Revised venting from new unisex restroom
 (c) Added new venting for new sinks
 (d) Added general note #11
 (e) Added condensate from new indoor unit to lavatory

Item No. 1.38 Reference Sheet P1-2.2 - PLUMBING REMODEL FLOOR PLAN -CW, HW & GAS
1.38.1 Replace Sheet P1-2.2 and revise per clouded areas & items listed below:
 (a) Revised CW, HW & HWR piping routing & sizes
 (b) Removed construction notes #6, #7, #8
 (c) Revised construction notes #3, #4 and #5

Item No. 1.39 Reference Sheet P1-2.3 - PLUMBING ROOF PLAN
1.39.1 Replace Sheet P1-2.3 and revise per clouded areas & items listed below:
 (a) Added New VTRs

Item No. 1.40 Reference Sheet PD-1.1 - PLUMBING DETAILS
1.40.1 Replace Sheet PD-1.1 and revise per clouded areas & items listed below:
 (a) Added New Detail 13

ELECTRICAL

- Item No. 1.41 Reference Sheet E0-0.2 - LUMINAIRE SCHEDULE
1.41.1 Replace Sheet E0-0.2 and revise per clouded areas & items listed below:
 (a) Type F2 has been removed.
 (b) Types F2A, F2AE, F2B, F2BE, F3 have been added.
- Item No. 1.42 Reference Sheet E0-0.3 - TITLE 24 COMPLIANCE DOCUMENTS
1.42.1 Replace Sheet E0-0.3 and revise per clouded areas & items listed below:
 (a) The Indoor Lighting Compliance Documents have been revised for the removal/addition of lights in the revised floor plan.
- Item No. 1.43 Reference Sheet E0-0.6 - LIGHTING REMODEL CONTROL LAYOUT
1.43.1 Replace Sheet E0-0.6 and revise per clouded areas & items listed below:
 (a) The Lighting Controls Layout has been revised to reflect the revised lighting plan on sheet E1-3.1.
- Item No. 1.44 Reference Sheet E0-0.7 - LIGHTING REMODEL CONTROL DETAILS
1.44.1 Replace Sheet E0-0.7 and revise per clouded areas & items listed below:
 (a) The Lighting Controls Details have been revised to reflect the updated controls system shown in sheet E0-0.6.
- Item No. 1.45 Reference Sheet E0-0.8 - SINGLE LINE DIAGRAM & PANEL SCHEDULES
1.45.1 Replace Sheet E0-0.8 and revise per clouded areas & items listed below:
 (a) Panel Schedule 'HA2' has been updated to show the revised load and circuit size for AC-3B.
 (b) Panel Schedule 'LA3' has been updated to show the revised circuits in the Health Center and on the roof above.
- Item No. 1.46 Reference Sheet E0-0.9 - LOW VOLTAGE RISER DIAGRAMS
1.46.1 Replace Sheet E0-0.9 and revise per clouded areas & items listed below:
 (a) Construction Note #11 has been added for the new IDF rack.
 (b) Data Riser Diagram has been updated to reflect the addition of the new IDF and data drops.
 (c) PA Riser Diagram has been updated to reflect the addition of ceiling PA speaker.
 (d) CCTV Riser Diagram has been updated to reflect the addition of security cameras.
 (e) CATV Riser Diagram has been removed from this sheet.
 (f) Access Control Riser Diagram has been updated to reflect the removal of card readers.
 (g) EMS Riser Diagram location has been updated.
- Item No. 1.47 Reference Sheet E1-2.1 - POWER & SIGNAL REMODEL PLAN
1.47.1 Replace Sheet E1-2.1 and revise per clouded areas & items listed below:
 (a) Construction Notes #5-#9 have been added to the sheet to reflect the addition of equipment in Data Room 109.
 (b) The Power Remodel Floor Plan has been updated to reflect the revised floor plan layout, with the removal/addition/relocation of devices and equipment.
- Item No. 1.48 Reference Sheet E1-2.2 - ELECTRICAL REMODEL ROOF PLAN
1.48.1 Replace Sheet E1-2.2 and revise per clouded areas & items listed below:
 (a) Construction Note #5 has been added to the sheet for control wiring conduit provided.
 (b) EF-3B has been relocated to a new location near the east edge of the roof.
 (c) OU-1 has been added to the roof plan.
- Item No. 1.49 Reference Sheet E1-3.1 - LIGHTING REMODEL PLAN
1.49.1 Replace Sheet E1-3.1 and revise per clouded areas & items listed below:
 (a) The Lighting Remodel Floor Plan has been updated to reflect the revised ceiling plan layout, with the removal/addition/relocation of light fixtures and control devices.
- Item No. 1.50 Reference Sheet E1-3.2 - NORMAL PHOTOMETRY PLAN
1.50.1 Replace Sheet E1-3.2 and revise per clouded areas & items listed below:
 (a) The Normal Photometry Plan has been updated to reflect the revised lighting layout shown on sheet E1-3.1.

- Item No. 1.51 Reference Sheet E1-3.3 - EMERGENCY EGRESS PHOTOMETRY PLAN
1.51.1 Replace Sheet E1-3.3 and revise per clouded areas & items listed below:
 (a) The Emergency Egress Photometry Plan has been updated to reflect the revised lighting layout shown on sheet E1-3.1.
- Item No. 1.52 Reference Sheet ED-1.1 - ELECTRICAL DETAILS
1.52.1 Replace Sheet ED-1.1 and revise per clouded areas & items listed below:
 (a) Detail #15 has been added for the IDF Elevation.
- Item No. 1.53 Reference Sheet ED-1.2 - ELECTRICAL DETAILS CONTINUED
1.53.1 Replace Sheet ED-1.2 and revise per clouded areas & items listed below:
 (a) Detail #3 has been added for the IDF Rack Mounting.

FIRE ALARM

- Item No. 1.54 Reference Sheet F0-0.1 - FIRE ALARM LEGENDS & NOTES
1.54.1 Replace Sheet F0-0.1 and revise per clouded areas & items listed below:
 (a) The Fire Alarm Equipment List has been updated to show multi-candela option for ceiling horn strobes.
- Item No. 1.55 Reference Sheet F0-0.3 - FIRE ALARM RISER DIAGRAM
1.55.1 Replace Sheet F0-0.3 and revise per clouded areas & items listed below:
 (a) The Fire Alarm Riser Diagram has been updated to reflect the removal/addition of fire alarm devices in the revised floor plan on sheet F1-2.1
 (b) The Fire Alarm Calculations have been updated to reflect the revised Fire Alarm Riser Diagram.
- Item No. 1.56 Reference Sheet F1-2.1 - FIRE ALARM REMODEL PLAN
1.56.1 Replace Sheet F1-2.1 and revise per clouded areas & items listed below:
 (a) The Fire Alarm Remodel Floor Plan has been updated to reflect the revised ceiling plan layout, with the removal/addition/relocation of fire alarm devices.

FIRE PROTECTION

- Item No. 1.57 Reference Sheet FP-1.2 - FIRE SPRINKLER HYD. REF. CEILING PLAN
1.57.1 Replace Sheet FP-1.2 and revise per clouded areas & items listed below:
 (a) Fire Sprinkler Hydraulic reference plan sprinkler layout was revised to accommodate new room and ceiling layout.
- Item No. 1.58 Reference Sheet FP-3.1 - FIRE SPRINKLER REFLECTED CEILING PLAN
1.58.1 Replace Sheet FP-3.1 and revise per clouded areas & items listed below:
 (a) Fire Sprinkler RCP and piping layout were revised to accommodate new room and ceiling layout throughout addition.
- Item No. 1.59 Reference Sheet FP-4.1 - FIRE SPRINKLER BUILDING SECTIONS
1.59.1 Replace Sheet FP-4.1 and revise per clouded areas & items listed below:
 (a) Fire Sprinkler building sections were updated to show new layout of sprinkler heads and piping in addition.

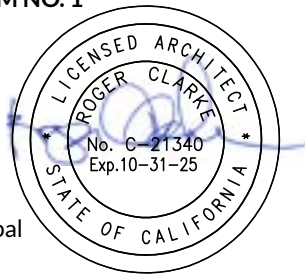
ATTACHMENTS

Specifications: 00 01 10, 08 56 59, 08 80 00, 23 23 00, 23 81 26.13

Sketches: N/A

Sheets: C-3.0,
G-2, G-4, A1-1.0, A1-2.0, A1-3.0, A1-5.0, A1-6.0, A1-7.0, A1-7.1, A1-7.2, A1-8.0,
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END OF ADDENDUM NO. 1



Roger Clarke, Principal
C-21340



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22 05 17 - Sleeves and Sleeve Seals for Plumbing Piping
22 05 18 - Escutcheons for Plumbing Piping
22 05 23 - General-Duty Valves for Plumbing Piping
22 05 29 - Hangers and Supports for Plumbing Piping and Equipment
22 05 53 - Identification for Plumbing Piping and Equipment
22 07 19 - Plumbing Piping Insulation
22 10 05 - Plumbing Piping
22 10 06 - Plumbing Piping Specialties
22 40 00 - Plumbing Fixtures

DIVISION 23 -- HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

23 00 10 - Basic Mechanical Requirements
23 05 29 - Hangers and Supports

23 05 48 - Vibration and Seismic Controls for HVAC
23 05 53 - Identification for HVAC Piping and Equipment
23 05 93 - Testing, Adjusting, and Balancing for HVAC
23 07 13 - Duct Insulation

23 23 00 – Refrigerant Piping Addendum 1

23 31 00 - HVAC Ducts and Casings
23 33 00 - Air Duct Accessories
23 34 23 - HVAC Power Ventilators
23 37 00 - Air Outlets and Inlets
23 40 00 - HVAC Air Cleaning Devices
23 74 13 - Packaged Outdoor Central-Station Air-Handling Units

23 81 26.13 – Small-Capacity Split-System Air Conditioner Addendum 1

DIVISION 26 -- ELECTRICAL

26 00 10 - Basic Electrical General Requirements
26 05 05 - Selective Demolition for Electrical
26 05 19 - Low-Voltage Electrical Power Conductors and Cables
26 05 26 - Grounding and Bonding for Electrical Systems
26 05 29 - Hangers and Supports for Electrical Systems
26 05 33.13 - Conduit for Electrical Systems
26 05 33.16 - Boxes for Electrical Systems
26 05 53 - Identification for Electrical Systems
26 09 23 - Lighting Control Devices
26 27 26 - Wiring Devices
26 28 13 - Fuses
26 28 16.16 - Enclosed Switches
26 51 00 - Interior Lighting

DIVISION 27 -- COMMUNICATIONS

27 51 16 - Public Address Systems
27 51 26 - Assistive Listening System

DIVISION 28 -- ELECTRONIC SAFETY AND SECURITY

28 13 53.11 - IP Network Compatible Intercom (IX System)
28 1600 - Intrusion Detection
28 31 00 - Fire Detection and Alarm

DIVISION 31 -- EARTHWORK

- 31 10 00 - Site Clearing
- 31 22 00 - Grading
- 31 23 16 - Excavation
- 31 23 16.13 - Trenching
- 31 23 23 - Fill

DIVISION 32 -- EXTERIOR IMPROVEMENTS

- 32 01 90 - Operation and Maintenance of Planting
- 32 11 23 - Aggregate Base Courses
- 32 12 16 - Asphalt Paving
- 32 13 13 - Concrete Paving
- 32 17 23 - Pavement Markings
- 32 17 26 - Tactile Warning Surfacing
- 32 31 19 - Decorative Metal Fences and Gates
- 32 33 00 - Site Furnishings
- 32 84 23 - Irrigation System
- 32 93 00 - Plants

DIVISION 33 -- UTILITIES

- 33 01 10.58 - Disinfection of Water Utility Piping Systems
- 33 05 43 - Corrosion Protection
- 33 14 16 - Site Water Utility Distribution Piping
- 33 42 11 - Stormwater Gravity Piping

END OF SECTION

SECTION 08 56 59
SERVICE AND TELLER WINDOW UNITS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Service and teller window units. ALUM-2

1.02 RELATED REQUIREMENTS

- A. Section 07 92 00 - Joint Sealants: Sealing joints between frames and adjacent construction.

1.03 REFERENCE STANDARDS

- A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum.
- B. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix).
- C. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- D. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- E. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric).

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate work with adjacent materials specified in other sections and as indicated on drawings and approved shop drawings.
- B. Preinstallation Meeting: Prior to start of installation arrange a meeting on site to familiarize installer and installers of related work with requirements relating to this work.

1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Submit manufacturer's product data for specified products indicating materials, operation, glazing, finishes, and installation instructions.
- C. Shop Drawings: Indicate configuration, sizes, rough-in, mounting, anchors and fasteners, and installation clearances.
- D. Samples for Selection of Finishes:
 - 1. Applied Finishes: Color charts for factory finishes.
 - 2. Color Anodized Finishes: Frame member sections showing range of color to be expected in finished work.
- E. Manufacturer Qualification Statement.
- F. Installer Qualification Statement.

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- G. Warranty: Submit manufacturer warranty and ensure that forms have been completed in District's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with at least ten years documented experience, and with ability to provide test reports showing that their standard manufactured products meet the specified requirements.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver units in manufacturer's original packaging and unopened containers with identification labels intact.
- B. Store units in area protected from exposure to weather and vandalism.

1.08 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Provide manufacturer's warranty agreeing to repair or replace units and their components that fail in materials or workmanship within five years from Date of Substantial Completion.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

- A. Pass-through windows of sales/service counter shall comply with the reach and access requirements of CBC Sections 11B-227.3 Counters, 11B-305 Clear Floor or Ground Space, 11B-306 Knee and Toe Clearance, 11B-308 Reach Range, 11B-309 Operable Parts, and 11B-904 Check-out aisles and sales and service counters.

2.02 PASS THROUGH WINDOW

- A. Pass-Through Window:
 - 1. Location: Interior.
 - 2. Window: Horizontal Sliding.
 - a. Operation: Manual.
 - b. Mounting: Flush with adjacent storefront.
 - c. Size: As indicated on drawings.
 - d. Finish: Natural anodized. ALUM-5
 - e. Finish Color: match adjacent storefront.
 - f. Screen: None.
 - 3. Glazing: Single (monolithic), clear.
 - a. Tempered safety glazing.
 - 4. Counter Staging Area: Attendant-side.
 - 5. Products:

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- a. Basis of Design: Arcadia Corp.; Sliding 2820 Pass Thru Series (Non-Thermal): www.arcadiainc.com.
- b. C.R. Lawrence; CRL Horizontal Sliding Service Windows, DW Series: www.crl-arch.com.
- c. Substitutions: See Section 01 6000 - Product Requirements.

2.03 ASSEMBLY COMPONENTS

- A. Windows: Factory-fabricated, finished, and glazed, with extruded aluminum frame and glazing stops; complete with hardware and anchors.
 - 1. Provide window units that are re-glazable from the secure side without dismantling the non-secure side of framing.
 - 2. Rigidly fit and secure joints and corners with internal reinforcement. Make joints and connections flush, hairline, and weatherproof. Fully weld corners.
 - 3. Apply factory finish to exposed surfaces.
 - 4. Apply bituminous paint to concealed metal surfaces in contact with cementitious or dissimilar materials.
 - 5. Wind Design: Design and size components to withstand dead loads and live loads caused by pressure and negative wind loads acting normal to plane of window as calculated in accordance with applicable code.

2.04 MATERIALS

- A. Aluminum Extrusions: Minimum 1/8 inch thick frame and sash material complying with ASTM B221 and ASTM B221M.
- B. Concealed Steel Items: Galvanized in accordance with ASTM A123/A123M to thickness Grade 85, 2.0 ounces per square foot.
- C. Monolithic Glass: Fully tempered float glass; minimum 1/4 inch thickness.
- D. Sealant for Setting Sills and Sill Flashing: Non-curing butyl type.

2.05 FINISHES

- A. Pigmented Organic Coating System: AAMA 2603; polyester or acrylic baked enamel finish.
- B. Color: To be selected by Architect from manufacturer's custom range.

2.06 ACCESSORIES

- A. Hardware and Security Devices for Sliding Windows:
 - 1. Hook-Lock: Maximum security hook lock on each slider.
 - 2. Weatherstripping and Glazing Sealant: Factory applied.
 - 3. Bottom Sills: Stainless steel construction, no bottom tracks and no pop rivets.
 - 4. Handles: Stainless steel, manufacturer's standard profile and finish.
 - a. Operating Force: 5 lbs maximum.

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PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that window openings are ready for installation of windows.
- B. Verify that correct embedded anchors are in place and in proper location; repair or replace anchors as required to achieve satisfactory installation.
- C. Notify Architect if conditions are not suitable for installation of units; do not proceed until conditions are satisfactory.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install units in correct orientation (inside/outside or secure/non-secure).
- C. Anchor units securely in manner so as to achieve performance specified.
- D. Set sill members and sill flashing in continuous bead of sealant.
- E. Remove and replace defective work.

3.03 ADJUSTING

- A. Adjust operating components for smooth operation while also maintaining a secure, weather-tight enclosure and a tight fit at the contact points; lubricate operating hardware.

3.04 CLEANING

- A. Remove protective material from factory finished surfaces.
- B. Clean exposed surfaces promptly after installation without damaging finishes.

3.05 PROTECTION

- A. Provide temporary protection to ensure that service and teller windows are without damage upon Date of Substantial Completion.

END OF SECTION

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SECTION 08 80 00 GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Insulating glass units.
- B. Glazing units.
- C. Glazing compounds.

1.02 RELATED REQUIREMENTS

- A. Section 07 25 00 - Weather Barriers.
- B. Section 07 27 00 - Air Barriers.
- C. Section 07 92 00 - Joint Sealants: Sealants for other than glazing purposes.
- D. Section 08 11 13 - Hollow Metal Doors and Frames: Glazed lites in doors and borrowed lites.
- E. Section 08 43 13 - Aluminum-Framed Storefronts: Glazing provided as part of storefront assembly.

1.03 REFERENCE STANDARDS

- A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials.
- B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.
- C. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures.
- D. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers.
- E. ASTM C920 - Standard Specification for Elastomeric Joint Sealants.
- F. ASTM C1036 - Standard Specification for Flat Glass.
- G. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass.
- H. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass.
- I. ASTM C1193 - Standard Guide for Use of Joint Sealants.
- J. ASTM C1376 - Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass.
- K. ASTM E1300 - Standard Practice for Determining Load Resistance of Glass in Buildings.
- L. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation.
- M. CBC - California Building Code.
- N. GANA (GM) - GANA Glazing Manual.
- O. GANA (SM) - GANA Sealant Manual.

- P. IGMA TM-3000 - North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial & Residential Use.
- Q. NFRC 100 - Procedure for Determining Fenestration Product U-factors.
- R. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.
- S. NFRC 300 - Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by each of the affected installers.

1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data on Insulating Glass Unit and Glazing Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.
- C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.
- D. Samples: Submit two samples 12 by 12 inch in size of glass and plastic units.
- E. Certificate: Certify that products of this section meet or exceed specified requirements.
- F. Manufacturer's qualification statement.
- G. Installer's qualification statement.
- H. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in District's name and registered with manufacturer.
- I. Maintenance Materials: Furnish the following for District's use in maintenance of project.
 - 1. See Section 01 60 00 - Product Requirements, for additional provisions.

1.06 QUALITY ASSURANCE

- A. Perform Work in accordance with GANA (GM) and IGMA TM-3000 for glazing installation methods. Maintain one copy on site.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
 - 1. Provide certified glass products through ANSI accredited certifications that include plant audits and independent laboratory performance testing.
 - a. Insulating Glass Certification Council (IGCC).
 - b. Safety Glazing Certification Council (SGCC).
- C. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.

1. Provide company, field supervisors, and installers that hold active ANSI accredited certifications in appropriate categories for work specified.
- D. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

1.07 MOCK-UPS

- A. See Section 01 40 00 - Quality Requirements for additional requirements.
- B. Provide mock-up of each type of glazing system including glass and air barrier and vapor retarder seal.
- C. Provide on-site glazing mock-up with the specified glazing components.
- D. Locate where directed.
- E. Mock-ups may remain as part of the Work.

1.08 FIELD CONDITIONS

- A. Do not install glazing when ambient temperature is less than 40 degrees F.
- B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

1.09 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.
- B. Insulating Glass Units: Provide a five (5) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including providing products to replace failed units.
- C. Laminated Glass: Provide a five (5) year manufacturer warranty to include coverage for delamination, including providing products to replace failed units.
- D. Heat Soaked Tempered Glass: Provide a five (5) year manufacturer warranty to include coverage for spontaneous breakage of fully tempered glass caused by nickel sulfide (NiS) inclusions.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

- A. Comply with the all applicable codes and ordinances, including California Building Code (CBC), Title 24, Part 2, Chapter 24 as amended and adopted by authorities having jurisdiction, and US Consumer Product Safety Commission Standard 16 CFR 1201 CI and CII.
- B. Where safety glass is indicated or required, provide glazing materials that conform to ANSI Z97.1 **class A** and CPSC 16 CFR 1201 and are so identified in accordance with CBC Section 2406.3.
- C. Glass Identification: Per CBC Section 2403.1, each light shall bear the manufacturer's label designating the type and thickness of glass.
 1. When approved by the enforcement agency, labels may be omitted from other than safety glazing materials, provided an affidavit is furnished by the glazing contractor certifying that each light is glazed in accordance with approved plans and specifications.

2. Identification of safety glazing material installed in hazardous locations as defined in Section 2406 of this chapter shall be identified by label which will specify the labeler, whether the manufacturer or installer, and state that safety glazing material has been utilized in such installations.
3. The label shall be legible and visible from the inside of the building after installation and shall specify that label shall not be removed.
4. Tempered glass shall have an etched manufacturer's label.

2.02 MANUFACTURERS

A. Glass Fabricators:

1. Glass Fab; www.glassfabusa.com.
2. Glasswerks Inc.: www.glasswerks.com.
3. GlasPro, Inc.: www.glas-pro.com
4. Viracon, Inc: www.viracon.com/#sle.
5. Or Equal Substitutions: See Section 01 60 00 - Product Requirements.

B. Float Glass Manufacturers:

1. Cardinal Glass Industries: www.cardinalcorp.com/#sle.
2. GlasPro, Inc.: www.glas-pro.com
3. Guardian Glass, LLC: www.guardianglass.com/#sle.
4. Pilkington North America Inc: www.pilkington.com/na/#sle.
5. Saint Gobain North America: www.saint-gobain.com/#sle.
6. Vitro Architectural Glass (formerly PPG Glass): www.vitroglazings.com/#sle.
7. Or Equal Substitutions: See Section 01 60 00 - Product Requirements.

2.03 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

- A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass.
 1. Design Pressure: Calculated in accordance with ASCE 7.
 - a. Where glass thicknesses are not indicated, provide thickness based on the wind pressures required by the California Building Code (CBC), Title 24, Part 2, 2403 and 2404, wind pressure shall be assumed to have a one minute duration.
 - b. Upon first application of design wind load for the specified durations, probability of breakage shall not exceed 8/1000 for vertical glass.
 - c. Probability of breakage relative to glass thermal stress shall not exceed 8/1000 for vertical glass.
 2. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
 3. Seismic Loads: Design and size glazing components to withstand seismic loads and sway displacement in accordance with the requirements of ASCE 7

4. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.
5. Glass thicknesses listed are minimum.
- B. Weather-Resistive Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure water-resistive barrier, vapor retarder, and/or air barrier.
 1. In conjunction with weather barrier related materials described in other sections, as follows:
 - a. Water-Resistive Barriers: See Section 07 25 00.
 - b. Air Barriers: See Section 07 27 00.
 2. To utilize inner pane of multiple pane insulating glass units for continuity of vapor retarder and/or air barrier seal.
 3. To maintain a continuous vapor retarder and/or air barrier throughout glazed assembly from glass pane to heel bead of glazing sealant.
- C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:
 1. Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
 2. Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
 3. Solar Optical Properties: Comply with NFRC 300 test method.

2.04 GLASS MATERIALS

- A. Float Glass: Provide float glass based glazing unless otherwise indicated.
 1. Annealed Type: ASTM C1036, Type I - Transparent Flat, Class 1 - Clear, Quality - Q3.
 2. Kind HS - Heat-Strengthened Type: Complies with ASTM C1048.
 3. Kind FT - Fully Tempered Type: Complies with ASTM C1048.
 4. Fully Tempered Safety Glass: Complies with ANSI Z97.1 or 16 CFR 1201 criteria for safety glazing used in hazardous locations.
 5. Heat-Soak Testing (HST): Provide HST of fully tempered glass used on canopy, point-supported, spider wall, high-risk, sloping overhead, horizontal overhead, free-standing glass protective barrier, or other demanding applications of project, to reduce risks of spontaneous breakage due to nickel sulfide (NiS) induced fractures in accordance with industry established testing requirements.
 6. Impact Resistant Safety Glass: Complies with ANSI Z97.1 - Class A, or 16 CFR 1201 - Category II criteria. CBC 2406.2.
 7. Tinted Type: ASTM C1036, Class 2 - Tinted, Quality - Q3, with color and performance characteristics as indicated.
 8. Thicknesses: As indicated; provide greater thickness as required for exterior glazing wind load design.

- B. Laminated Glass: Float glass laminated in accordance with ASTM C1172.
 - 1. Laminated Safety Glass: Complies with ANSI Z97.1 - Class A or 16 CFR 1201 - Category I impact test requirements.
 - 2. Ionoplast Interlayer: 0.035 inch thick, minimum.
 - a. Basis of Design Product: SentryGlas®Plus (SGB) Interlayer as manufactured by Kuraray America Inc., www.kuraray.us.com, or approved equal.

2.05 INSULATING GLASS UNITS

- A. Manufacturers:
 - 1. Glass: Any of the manufacturers specified for float glass.
 - 2. Cardinal Glass Industries: www.cardinalcorp.com/#sle.
 - 3. Glasswerks: glasswerks.com.
 - 4. Pilkington North America Inc: www.pilkington.com/na/#sle.
 - 5. Viracon, Apogee Enterprises, Inc: www.viracon.com/#sle.
 - 6. Vitro Architectural Glass (formerly PPG Glass): www.vitroglazings.com/#sle.
 - 7. Or Equal Substitutions: See Section 01 60 00 - Product Requirements.
- B. Fabricator: Certified by glass manufacturer for type of glass, coating, and treatment involved and capable of providing specified warranty.
- C. Insulating Glass Units: Types as indicated.
 - 1. Durability: Certified by an independent testing agency to comply with ASTM E2190.
 - 2. Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.
 - 3. Metal-Edge Spacers: Aluminum, bent and soldered corners.
 - 4. Spacer Color: Black.
 - 5. Edge Seal:
 - a. Single-Sealed System: Provide silicone, polysulfide, or polyurethane sealant as seal applied around perimeter.
 - b. Color: Black.
 - 6. Purge interpane space with dry air, hermetically sealed.
 - 7. Capillary Tubes: Provide tubes from air space for insulating glass units without inert type gas that have a change of altitude greater than 2500 feet between point of fabrication and point of installation to permit pressure equalization of air space.
 - a. Capillary Tubes: Tubes to remain open and be of length and material type in accordance with insulating glass fabricator's requirements.
 - b. Inert gas may be installed in the field into air space in accordance with insulating glass fabricator's and installer's requirements.
- D. Insulating Glass Units: Vision glass, double glazed.
 - 1. Applications: Exterior glazing unless otherwise indicated.

2. Space between lites filled with air.
 3. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
 - a. Tint: Clear.
 - b. Coating: Low-E (passive type), on #2 surface.
 4. Metal edge spacer.
 5. Inboard Lite: Annealed float glass, 1/4 inch thick, minimum.
 - a. Tint: Clear.
 6. Total Thickness: 1 inch.
 7. Thermal Transmittance (U-Value), Winter - Center of Glass: 0.29, nominal.
 8. Visible Light Transmittance (VLT): 51 percent, nominal.
 9. Solar Heat Gain Coefficient (SHGC): 0.23, nominal.
 10. Visible Light Reflectance, Outside: 12 percent, nominal.
 11. Glazing Method: Dry glazing method, gasket glazing.
- E. Insulating Glass Units: Safety glazing.
1. Applications:
 - a. Glazed lites in exterior doors.
 - b. Glazed sidelights and panels next to doors.
 - c. Other locations required by applicable federal, state, and local codes and regulations.
 - d. Other locations indicated on drawings.
 2. Space between lites filled with air.
 3. Glass Type: Same as other vision glazing except use fully tempered float glass for both outboard and inboard lites.
 4. Tint: Clear.
 5. Total Thickness: 1 inch.
 6. Metal edge spacer.
 7. Glazing Method: Dry glazing method, gasket glazing.

2.06 BASIS OF DESIGN - INSULATING GLASS UNITS

- A. Basis of Design - Insulating Glass Units: Vision glazing, with low-e coating.
1. Applications: Exterior insulating glass glazing unless otherwise indicated.
 2. Space between lites filled with air.
 3. Total Thickness: 1 inch.
 4. Durability: Certified by an independent testing agency to comply with ASTM E2190.
 5. Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.

6. Metal Edge Spacers: Aluminum, bent and soldered corners.
 7. Spacer Color: Black.
 8. Edge Seal:
 - a. Single-Sealed System: Provide silicone, polysulfide, or polyurethane sealant as seal applied around perimeter.
 - b. Color: Black.
 9. Purge interpane space with dry air, hermetically sealed.
 10. Capillary Tubes: Provide tubes from air space for insulating glass units without inert type gas that have a change of altitude greater than 2500 feet between point of fabrication and point of installation to permit pressure equalization of air space.
 - a. Capillary Tubes: Tubes to remain open and be of length and material type in accordance with insulating glass fabricator's requirements.
- B. IG-1 Basis of Design - Vitro Architectural Glass (formerly PPG Glass): www.vitroglazings.com/#sle.**
1. Outboard Lite: Heat-strengthened float glass, 1/4 inch thick, minimum.
 - a. Low-E Coating: Vitro Architectural Glass (formerly PPG Glass) Solarban 90 on #2 surface.
 - b. Glass: Clear.
 2. Inboard Lite: Heat-strengthened float glass, 1/4 inch thick.
 - a. Coating: No coating on inboard lite.
 - b. Glass: Clear.
- C. IG-2 Basis of Design - Vitro Architectural Glass (formerly PPG Glass): www.vitroglazings.com/#sle. Location: Exam room exterior windows.**
1. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
 - a. Low-E Coating: Vitro Architectural Glass (formerly PPG Glass) Solarban 90 on #2 surface..
 - b. Glass Tint: Clear.
 2. Inboard Lite: Annealed float glass, 1/4 inch thick.
 - a. Glass: Clear.
 - b. Coating: Pavia Acid-Etched on number 3 surface.
- D. Substitution Procedures: See Section 01 60 00 - Product Requirements.**
1. For any product not identified as "Basis of Design", submit information as specified for substitutions.

2.07 GLAZING UNITS

- A. Monolithic Interior Vision Glazing:**
1. Applications: Interior glazing unless otherwise indicated.
 2. Glass Type: Annealed float glass.
 3. Tint: Clear.

4. Thickness: 1/4 inch, nominal.
- B. Monolithic Safety Glazing: Non-fire-rated.
 1. Applications:
 - a. Glazed lites in doors, except fire doors.
 - b. Glazed sidelights to doors, except in fire-rated walls and partitions.
 - c. Other locations required by applicable federal, state, and local codes and regulations.
 - d. Other locations indicated on drawings.
 2. Glass Type: Fully tempered safety glass as specified.
 3. Tint: Clear.
 4. Thickness: 1/4 inch, nominal.
 5. Glazing Method: Dry glazing method, gasket glazing.

2.08 GLAZING COMPOUNDS

- A. Type GC-3 - Polysulfide Sealant: Two component; chemical curing, nonsagging type; ASTM C920 Type M, Grade NS, Class 25, Uses M, A, and G; with cured Shore A hardness range of 15 to 25; color as selected.
- B. Type GC-5 - Silicone Sealant: Single component; neutral curing; capable of water immersion without loss of properties; nonbleeding, nonstaining; ASTM C920 Type S, Grade NS, Class 25, Uses M, A, and G; with cured Shore A hardness range of 15 to 25; color as selected.

2.09 ACCESSORIES

- A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch by width of glazing rabbet space minus 1/16 inch by height to suit glazing method and pane weight and area.
- B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option II. Minimum 3 inch long by one half the height of the glazing stop by thickness to suit application, self adhesive on one face.
- C. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.
 1. Width: As required for application.
 2. Thickness: As required for application.
- D. Glazing Gaskets: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option II; color black.
- E. Glazing Clips: Manufacturer's standard type.

2.10 SOURCE QUALITY CONTROL

- A. See Section 01 40 00 - Quality Requirements for additional requirements.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

- A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.
- B. Verify that the minimum required face and edge clearances are being provided.
- C. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.
- D. Verify that sealing between joints of glass framing members has been completed effectively.
- E. Proceed with glazing system installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.
- B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

3.03 INSTALLATION, GENERAL

- A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.
- B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.
- C. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.
- D. Set glass lites of system with uniform pattern, draw, bow, and similar characteristics.
- E. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.
- F. Prevent glass from contact with any contaminating substances that may be the result of construction operations such as, and not limited to the following; weld splatter, fire-safing, plastering, mortar droppings, and paint.

3.04 INSTALLATION - DRY GLAZING METHOD (GASKET GLAZING)

- A. Application - Exterior and/or Interior Glazed: Set glazing infills from either the exterior or the interior of the building.
- B. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
- C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.
- D. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.

3.05 FIELD QUALITY CONTROL

- A. See Section 01 40 00 - Quality Requirements for additional requirements.
- B. Glass and Glazing product manufacturers to provide field surveillance of the installation of their products.
- C. Monitor and report installation procedures and unacceptable conditions.

3.06 CLEANING

- A. See Section 01 74 19 - Construction Waste Management and Disposal, for additional requirements.
- B. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.
- C. Remove nonpermanent labels immediately after glazing installation is complete.
- D. Clean glass and adjacent surfaces after sealants are fully cured.
- E. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

3.07 PROTECTION

- A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.
- B. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

END OF SECTION

SECTION 23 23 00
REFRIGERANT PIPING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Piping.
- B. Refrigerant.
- C. Moisture and liquid indicators.
- D. Valves.
- E. Strainers.
- F. Filter-driers.
- G. Solenoid valves.

1.02 REFERENCE STANDARDS

- A. AHRI 710 - Performance Rating of Liquid-Line Driers; 2009.
- B. AHRI 760 - Performance Rating of Solenoid Valves for Use With Volatile Refrigerants; 2007.
- C. ASHRAE Std 15 - Safety Standard for Refrigeration Systems; 2016, with Addendum (2017).
- D. ASME B16.22 - Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings; 2018.
- E. ASME B16.26 - Cast Copper Alloy Fittings for Flared Copper Tubes; 2018.
- F. ASME B31.5 - Refrigeration Piping and Heat Transfer Components; 2016.
- G. ASTM B88 - Standard Specification for Seamless Copper Water Tube; 2016.
- H. ASTM B88M - Standard Specification for Seamless Copper Water Tube (Metric); 2018.
- I. ASTM B280 - Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service; 2018.
- J. AWS A5.8M/A5.8 - Specification for Filler Metals for Brazing and Braze Welding; 2011 (Amended 2012).
- K. UL 429 - Electrically Operated Valves; Current Edition, Including All Revisions.
- L. All refrigerants shall meet CMC Chapter 11.

1.03 SYSTEM DESCRIPTION

- A. Where more than one piping system material is specified ensure system components are compatible and joined to ensure the integrity of the system is not jeopardized. Provide necessary joining fittings. Ensure flanges, union, and couplings for servicing are consistently provided.
- B. Provide pipe hangers and supports in accordance with ASME B31.5 unless indicated otherwise.
- C. Liquid Indicators:
 - 1. Use line size liquid indicators in main liquid line leaving condenser.

2. If receiver is provided, install in liquid line leaving receiver.
- D. Valves:
 1. Use service valves on suction and discharge of compressors.
 2. Use gauge taps at compressor inlet and outlet.
- E. Filter-Driers:
 1. Use a filter-drier immediately ahead of liquid-line controls, such as thermostatic expansion valves, solenoid valves, and moisture indicators.
- F. Solenoid Valves:
 1. Use in liquid line of single or multiple evaporator systems.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide general assembly of specialties, including manufacturers catalogue information. Provide manufacturers catalog data including load capacity.
- C. Project Record Documents: Record exact locations of equipment and refrigeration accessories on record drawings.
- D. Maintenance Materials: Furnish the following for District's use in maintenance of project.
 1. See Section 01 60 00 - Product Requirements, for additional provisions.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store piping and specialties in shipping containers with labeling in place.
- B. Protect piping and specialties from entry of contaminating material by leaving end caps and plugs in place until installation.
- C. Dehydrate and charge components such as piping and receivers, seal prior to shipment, until connected into system.

PART 2 PRODUCTS

2.01 PIPING

- A. Copper Tube: ASTM B280, H58 hard drawn or O60 soft annealed.
 1. Fittings: ASME B16.22 wrought copper.
 2. Joints: Braze, AWS A5.8M/A5.8 BCuP silver/phosphorus/copper alloy.
- B. Copper Tube to 7/8 inch OD: ASTM B88 (ASTM B88M), Type K (A), annealed.
 1. Fittings: ASME B16.26 cast copper.
 2. Joints: Flared.
- C. Pipe Supports and Anchors:
 1. Conform to ASME B31.5
 2. Hangers for Pipe Sizes 1/2 to 1-1/2 Inch: Malleable iron adjustable swivel, split ring.

2.02 MOISTURE AND LIQUID INDICATORS

- A. Indicators: Single port type, UL listed, with copper or brass body, flared or solder ends, sight glass, color coded paper moisture indicator with removable element cartridge and plastic cap; for maximum temperature of 200 degrees F and maximum working pressure of 500 psi.

2.03 VALVES

- A. Service Valves:
 - 1. Forged brass body with copper stubs, brass caps, removable valve core, integral ball check valve, flared or solder ends, for maximum pressure of 500 psi.

2.04 FILTER-DRIERS

- A. Performance:
 - 1. Flow Capacity - Liquid Line: per manufacturer's recommendation, minimum, rated in accordance with AHRI 710.
 - 2. Pressure Drop: 2 psi, maximum, when operating at full connected evaporator capacity.
 - 3. Design Working Pressure: 350 psi, minimum.
- B. Cores: Molded or loose-fill molecular sieve desiccant compatible with refrigerant, activated alumina, activated charcoal, and filtration to 40 microns, with secondary filtration to 20 microns; of construction that will not pass into refrigerant lines.
- C. Construction: UL listed.
 - 1. Connections: As specified for applicable pipe type.

2.05 SOLENOID VALVES

- A. Valve: AHRI 760 I-P, pilot operated, copper, brass or steel body and internal parts, synthetic seat, stainless steel stem and plunger assembly (permitting manual operation in case of coil failure), integral strainer, with flared, solder, or threaded ends; for maximum working pressure of 500 psi.
- B. Coil Assembly: UL 429, UL listed, replaceable with molded electromagnetic coil, moisture and fungus proof, with surge protector and color coded lead wires, integral junction box with pilot light.

PART 3 EXECUTION

3.01 PREPARATION

- A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.
- B. Remove scale and dirt on inside and outside before assembly.
- C. Prepare piping connections to equipment with flanges or unions.

3.02 INSTALLATION

- A. Install refrigeration specialties in accordance with manufacturer's instructions.

- B. Route piping in orderly manner, with plumbing parallel to building structure, and maintain gradient.
- C. Install piping to conserve building space and avoid interference with use of space.
- D. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.
- E. Pipe Hangers and Supports:
 - 1. Install in accordance with ASME B31.5.
 - 2. Support horizontal piping as indicated.
 - 3. Install hangers to provide minimum 1/2 inch space between finished covering and adjacent work.
 - 4. Place hangers within 12 inches of each horizontal elbow.
- F. Arrange piping to return oil to compressor. Provide traps and loops in piping, and provide double risers as required. Slope horizontal piping 0.40 percent in direction of flow.
- G. Provide clearance for installation of insulation and access to valves and fittings.
- H. Provide access to concealed valves and fittings. Coordinate size and location of access doors with Section 08 31 00.
- I. Follow ASHRAE Std 15 procedures for charging and purging of systems and for disposal of refrigerant.

3.03 FIELD QUALITY CONTROL

- A. See Section 01 40 00 - Quality Requirements, for additional requirements.
- B. Test refrigeration system in accordance with ASME B31.5.
- C. Pressure test system with dry nitrogen to 200 psi. Perform final tests at 27 inches vacuum and 200 psi using halide torch. Test to no leakage.
- D. Refrigerant piping shall be provided with insulation. All exterior insulation shall be provided with an aluminum jacket and UV protection.

END OF SECTION

SECTION 23 81 26.13
SMALL-CAPACITY SPLIT-SYSTEM AIR CONDITIONERS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Air cooled condensing units.
- B. Indoor air handling (ductless fan & coil) units.
- C. Controls.

1.02 RELATED REQUIREMENTS

- A. Section 22 10 05 - Plumbing Piping: Includes indoor coil condensate drain and water supply for humidifier.
- B. Section 26 05 30 - Wiring Connections: Electrical characteristics and wiring connections and installation and wiring of thermostats and other controls components.

1.03 REFERENCE STANDARDS

- A. AHRI 210/240 - Standard for Performance Rating of Unitary Air-Conditioning and Air-Source Heat Pump Equipment; 2008, Including All Addenda.
- B. ASHRAE Std 15 - Safety Standard for Refrigeration Systems; 2016, with Addendum (2017).
- C. ASHRAE Std 23.1 - Methods of Testing for Rating the Performance of Positive Displacement Refrigerant Compressors and Condensing Units that Operate at Subcritical Temperatures of the Refrigerant; 2010.
- D. NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilating Systems; 2018.
- E. NFPA 90B - Standard for the Installation of Warm Air Heating and Air-Conditioning Systems; 2018.
- F. UL 207 - Standard for Refrigerant-Containing Components and Accessories, Nonelectrical; Current Edition, Including All Revisions.
- G. All refrigerants shall comply with CMC chapter 11.
- H. Insulation: Surface Burning Characteristics: Flame spread index/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E84 or ASTM E84.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide rated capacities, weights, accessories, electrical nameplate data, and wiring diagrams.
- C. Shop Drawings: Indicate assembly, required clearances, and location and size of field connections.
- D. Design Data: Indicate refrigerant pipe sizing.
- E. Manufacturer's Instructions: Indicate rigging, assembly, and installation instructions.

- F. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, installation instructions, maintenance and repair data, and parts listing.
- G. Warranty: Submit manufacturer's warranty and ensure forms have been filled out in District's name and registered with manufacturer.

1.05 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

PART 2 PRODUCTS

2.01 SYSTEM DESIGN

- A. Split-System Cooling Units: Self-contained, packaged, matched factory-engineered and assembled, pre-wired indoor and outdoor units; UL listed.
 - 1. Provide refrigerant lines internal to units and between indoor and outdoor units, factory cleaned, dried, pressurized and sealed, with insulated suction line.
- B. Performance Requirements: See Drawings for additional requirements.
- C. Electrical Characteristics:
 - 1. Disconnect Switch: Factory mount disconnect switch on equipment under provisions of Section 26 05 83.

2.02 INDOOR UNITS FOR DUCTLESS SYSTEMS

- A. Indoor Units: Self-contained, packaged, factory assembled, pre-wired unit consisting of cabinet, supply fan, cooling elements, and controls; wired for single power connection with control transformer.
 - 1. Location: High-Wall.
 - 2. Cabinet: Galvanized steel.
 - a. Finish: White.
 - 3. Filter return air with washable, antioxidant pre-filter and a pleated anti-allergy enzyme filter.
- B. Evaporator Coils: Copper tube aluminum fin assembly, galvanized or polymer drain pan sloped in all directions to drain, drain connection, refrigerant piping connections, restricted distributor or thermostatic expansion valve.
 - 1. Construction and Ratings: In accordance with AHRI 210/240 and UL 207.
 - 2. Manufacturer: System manufacturer.

2.03 OUTDOOR UNITS

- A. Outdoor Units: Self-contained, packaged, pre-wired unit consisting of cabinet, with compressor and condenser.
 - 1. Refrigerant: Latest code required refrigerant.
 - 2. Cabinet: Galvanized steel with baked enamel finish, easily removed and secured access doors with safety interlock switches, glass fiber insulation with reflective liner.

3. Construction and Ratings: In accordance with AHRI 210/240 with testing in accordance with ASHRAE Std 23.1 and UL 207.
- B. Accessories: Filter drier, high pressure switch (manual reset), low pressure switch (automatic reset), service valves and gauge ports, thermometer well (in liquid line).
 1. Provide thermostatic expansion valves.
- C. Operating Controls:
 1. Control by room thermostat to maintain room temperature setting. Thermostat by EMS Controls.
 2. Low Ambient Kit: Provide refrigerant pressure switch to cycle condenser fan on when condenser refrigerant pressure is above 285 psig and off when pressure drops below 140 psig for operation to 0 degrees F.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrates are ready for installation of units and openings are as indicated on shop drawings.
- B. Verify that proper power supply is available and in correct location.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions and requirements of local authorities having jurisdiction.
- B. Install in accordance with NFPA 90A and NFPA 90B.
- C. Install refrigeration systems in accordance with ASHRAE Std 15.

3.03 SCHEDULE - SEE SHEET M0-1.1

END OF SECTION

STAMPS



Armstrong & Brooks Consulting Engineers, Inc.
Civil Engineering · Water Resources · Surveying

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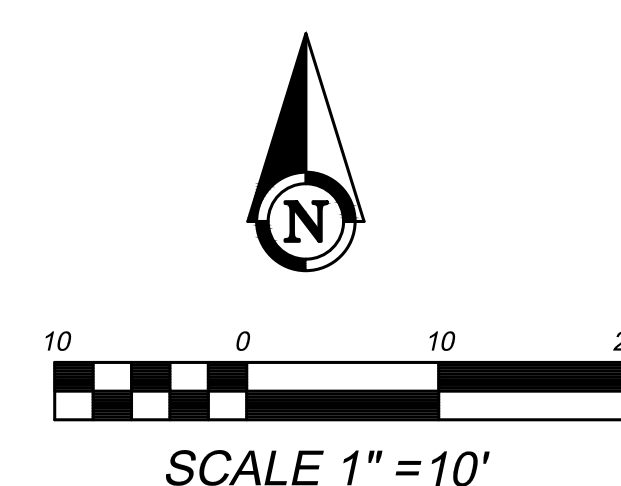
CONSULTANT BRANDING

CONSTRUCTION NOTES-HARDSCAPE

- | | |
|-----|---|
| 11A | CONSTRUCT 4" PCC SIDEWALK PER DETAIL A/C-4.0 - FINISH PER ARCH PLANS & SPECS |
| 11B | CONSTRUCT 6" PCC PAVEMENT OVER 6" CL II AB (95% MIN. COMPACTION) PER DETAIL A/C-4.0 - FINISH PER ARCH PLANS & SPECS |
| 13 | CONSTRUCT MOW CURB ARCHITECT'S PLANS |
| 14 | CONSTRUCT FENCE & GATE PER ARCHITECT PLANS |
| 15 | CONSTRUCT 6" CURB PER APWA STANDARD PLAN 120-2, A1-6 PER DETAIL E/C-4.0 |

CONSTRUCTION NOTES-STORM DRAIN

- | | |
|------|---|
| 218A | INSTALL 3" SCH 40 PVC STORM DRAIN LINE IN TRENCH SECTION PER DETAIL C/C-4.0. |
| 219 | INSTALL 6" SCH 40 PVC STORM DRAIN LINE IN TRENCH SECTION PER DETAIL C/C-4.0. |
| 22 | JOIN EXISTING STORM DRAIN PIPE, CONTRACTOR TO FIELD VERIFY EXISTING LOCATIONS & PIPELINE MATERIALS, & PROVIDE FITTINGS & ADAPTORS |
| 23 | JOIN EXISTING STORM DRAIN CATCH BASIN, CONTRACTOR TO FIELD VERIFY EXISTING LOCATIONS & PIPELINE MATERIALS, & PROVIDE FITTINGS & ADAPTOR |
| 24 | CONSTRUCT SCH 40 PVC FITTING (SIZE & TYPE PER PLAN) |



SCALE 1" = 10'

EXIST. BLDG "B"
A#04-107058

EXIST. BLDG "B"
A#04-107058

EXIST. BLDG "A"
A#04-107058
FF=(84.17±)

PROP. BLDG "A" ADDITION
FF=84.17±

EXIST. BLDG P.A.C.
A#04-114977
A#04-116949

MATCHLINE
SEE BELOW LEFT

MATCHLINE
SEE ABOVE RIGHT

PROJECT No. :

DRAWN BY:  DATE: 07/21/25

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INDIAN SPRINGS HIGH SCHOOL HEALTH

INDIAN SPRINGS HIGH SCHOOL
650 N DEL ROSA RD, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

GRADING PLAN

C-3.0

INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER:



AGENCY APPROVAL
FIS No: 36-07 A#04-123900

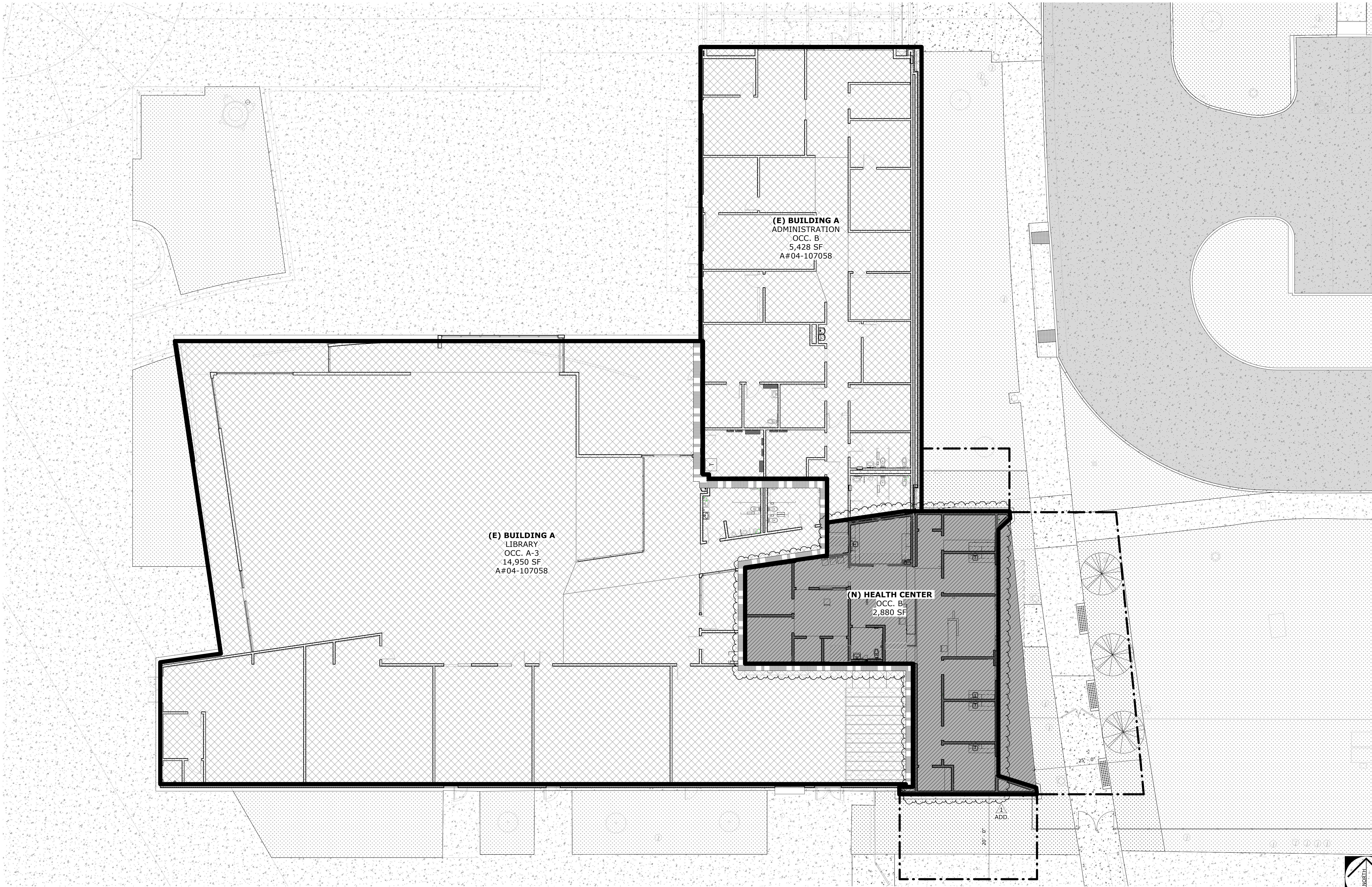
RUHNAU
CLARKE
ARCHITECTS

STAMPS

CONSULTANT BRANDING

LEGEND

- ASSUMED IMAGINARY LINE PER CBC 705.3 (BUILDINGS ON SAME LOT)
- 1 HR FIRE RATED OCCUPANCY SEPARATION
- (E) BUILDING, SEPARATED BY OCCUPANCY, AREA NOT IN CONTRACT
- PROJECTIONS / OVERHANGS (NOT INCLUDED IN BUILDING AREA CALCULATION)
- NEW BUILDING OR STRUCTURE
- AREA NOT PROVIDED WITH SURROUNDING WALLS, BUT BELOW THE PROJECTION OF ROOF ABOVE (INCLUDED IN BUILDING AREA TOTAL)



CODE ANALYSIS PLAN 1

BUILDING NUMBER	BUILDING NAME	OCCUPANCY TYPE	CONSTRUCTION TYPE	ALLOWABLE BUILDING HEIGHT (PER 2022 CBC TABLE 504.3)	ACTUAL BUILDING HEIGHT	ALLOWABLE NUMBER OF STORIES (PER 2022 CBC TABLE 504.4 W/ SPRINKLERS)	ACTUAL NUMBER OF STORIES	ALLOWABLE BUILDING AREA (PER 2022 CBC TABLE 506.2)	ALLOWABLE BUILDING AREA (PER 2022 CBC TABLE 506.3.3) WITH FRONTAGE INCREASE $A_{a} = A_i + (NS \times I)$	ACTUAL BUILDING AREA		MIXED USED OCCUPANCY	NON SEPARATED OCCUPANCY	SEPARATION BETWEEN OCC. (PER 2022 CBC TABLE 508.4)	SEPARATION BETWEEN INCIDENTAL USES (PER 2022 CBC TABLE 509.1)	AUTO SPRINKLER SYSTEM	FIRE-RESISTIVE RATING REQUIREMENTS FOR BUILDINGS ELEMENTS (PER 2022 CBC TABLE 601)							MAXIMUM AREA OF EXTERIOR WALL OPENING BASED ON FIRE SEPARATION DISTANCE (PER 2022 CBC TABLE 705.8)		REMARKS
																	PRIMARY STRUCT. FRAME	BEARING WALLS		NON-BEARING WALLS		FLOOR CONST.	ROOF CONST.			
																		EXT.	INT.	EXT.	INT.					
A	NEW HEALTH CENTER	B	V-B	60'-0"	23'-0"	3	1	36,000	N/A	2,880 SF	23,258 SF TOTAL AREA	OCC. TYPE 'B' = $\frac{8,308}{36,000}$ SF = 0.231	NO	YES	NO	YES	0	0	0	0	0	0	NORTH ELEVATION	20 FT TO LESS THAN 25 FT (UP, S) = NO LIMIT		
	(E) ADMINISTRATION	B			18'-8"					5,428 SF		OCC. TYPE 'A' = $\frac{14,950}{24,000}$ SF = 0.623											EAST ELEVATION	20 FT TO LESS THAN 25 FT (UP, S) = NO LIMIT		
	(E) LIBRARY	A-3			26'-0"					14,950 SF		$0.231 + 0.623 = 0.854 < 1 = \text{OK!}$											SOUTH ELEVATION	20 FT TO LESS THAN 25 FT (UP, S) = NO LIMIT.		
																							WEST ELEVATION	N/A		

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CHECKED BY: JC
DELTA # 1 DATE 9/26/25
DELTA # 2 DATE
DELTA # 3 DATE
DELTA # 4 DATE

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INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER
INDIAN SPRINGS HIGH SCHOOL
650 N DEL ROSA DR, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

BUILDING CODE ANALYSIS

CODE ANALYSIS
FLOOR PLAN

G-2

1-78-50



STAMP

CONSULTANT BRANDIN

1. SEE **SHEET G-2** FOR BUILDING CODE ANALYSIS INFORMATION
2. **DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE ARE REQUIRED TO HAVE PANIC HANDLING OR FIRE EXIT HARDWARE, PER SECTION 1010.2.9 IN THE CBC 2022.**
3. **NEW ROOM OCCUPANT LOADS FACTORED PER CBC 2022 SECTION 1004, TABLE 1004.5, UNCHANGED EXISTING ROOM OCCUPANT LOADS WERE PREVIOUSLY APPLIED UNDER AFR 04-107058.**
4. **REFER TO SECTION 10 14 23 FOR SIGNAGE INFORMATION ON SIGNAGE.**
5. **SEE SHEETS **AD-1.0 & AD-1.1** FOR SIGNAGE ATTACHMENTS AND LOCATIONS.**
6. **ALL SINGLE DOORS TO HAVE A 90 DEGREE SWING LIMIT WHERE TACTILE SIGNAGE IS LOCATED ON HINGED SIDE OF DOOR ON OUTSWINGING SIDE OF DOOR.**
7. **ON TYPE PAIRS OF DOORS: WHEN POSSIBLE TACTILE SIGNAGE SHALL BE PLACED AT RIGHT SIDE OF DOORS.**
8. **SEE **SHEET A1-8.0** FOR DOOR AND WINDOW INFORMATION**

ROOM NAME
 1001
 Room 1001
 Room Area
 Room Tag

ROOM TAG
 ROOM AREA
 OCCUPANT LOAD

PROJECT SCOPE OF WORK LIMIT

OCCUPANT LOAD FACTOR

(E) WALL, REFER TO DEMO PLANS FOR MORE INFO

ROOM OCCUPANCY DISCHARGE

TYP. NEW WOOD STUD RATED WALL REFER TO WALL TAG FOR MORE INFO

NON-OCCUPIED ROOM

TYP. NEW WOOD STUD RATED WALL ASSEMBLY, REFER TO WALL TAGS ON SHEET A-1.0 FOR MORE INFO

TOTAL OCCUPANCY DISCHARGE

1-HR FIRE RATED WALL ASSEMBLY

(E) 1-HR FIRE RATED WALL ASSEMBLY

EGRESS PATH, EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED 300 FT IN SPRINKLERED BUILDINGS, PER CBC SECTION 1017.2

EXISTING SEMI-RECESSED FIRE EXTINGUISHER

SEE ALSO SPEC SECTION 10 44 00 PER CBC 2022 SECTION 906 MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER SHALL BE 75'-0"

RECESSED FIRE EXTINGUISHER CABINET PER DETAIL

6

AD-1

SURFACE-MOUNTED FIRE EXTINGUISHER, SEE DETAIL

7

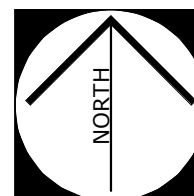
AD-1/1

ISA (WHERE INDICATED ON PLAN)					
	ROOM NUMBER ROOM NAME	6 AD-1.0		EXIT SIGN	8 AD-1.0
	ROOM NUMBER ROOM NAME	6 AD-1.0		MAXIMUM OCCUPANT LOAD SIGN NUMBER OF OCCUPANTS	9 AD-1.0
	BOYS/MEN'S DOOR SIGN	11 AD-1.0		ASSISTIVE LISTENING SIGNAGE	10 AD-1.0
	GIRL'S/WOMEN'S DOOR SIGN			FIRE RISER INSIDE	7 AD-1.0
	GIRL'S/WOMEN'S WALL SIGN	16 AD-1.0		NOT AN EXIT SIGN	15 AD-1.0
	BOYS/MEN'S WALL SIGN			DIRECTIONAL EXIT ROUTE SIGN	30 AD-1.0
	UNISEX DOOR SIGN	12 AD-1.0			
	UNISEX WALL SIGN				
	ILLUMINATED EXIT SIGN, WALL MOUNTED ABOVE DOOR OPENING OR CEILING MOUNTED, REFER TO ELECT. DWGS. FOR MORE INFO.				
	ILLUMINATED EXIT SIGN, CEILING MOUNTED W/ DIRECTIONAL ARROW, REFER TO ELECT. DWGS. FOR MORE INFO.				
	INDICATES SIGN LOCATION				

ROOM NAME	ROOM #	# OF OCC	# OF RECEIVERS REQUIRED = (# OF SEATS)(4%)	# OF HEARING-AID COMPATIBLE RECEIVERS = (# OF RECEIVERS)(25%)	TOTAL # OF RECEIVERS PROVIDED
CONFR.	111	14	(14 OCC)(0.04)=0.56, 2 PROVIDED (SEE NOTES)	(2 RECEIVERS)(0.25) = 0.25, 2 PROVIDED (SEE NOTES)	2 H.A.C. REC.
			TOTAL # OF RECEIVERS PROVIDED	0 STANDARD RECEIVERS 2 HEARING AID COMPATIBLE RECEIVERS	

NOTES:
1. PER CBC SECTION 11B-219.3, THE MIN. # OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4% OF TOTAL # OF OCCUPANTS, BUT IN NO CASE LESS THAN TWO. 25% MIN. OF RECEIVERS PROVIDED, BUT NO FEWER THAN TWO, SHALL BE HEARING-AID COMPATIBLE.

INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER:



PROJECT No. :1-78-50
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DRAWN BY: VR, SK, AT CHECKED BY: JC

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3725 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684-4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438-5800

INDIAN SPRINGS HIGH SCHOOL HEALTH

INDIAN SPRINGS HIGH SCHOOL
650 N DEL ROSA DR, SAN BERNARDINO, CA 92411
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

EGRESS & SIGNAGE PLAN

G-4

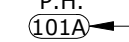
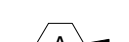
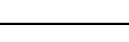
1.78.50

DEMOLITION LEGEND	
	(E) WALL TO REMAIN
	(E) 1-HR FIRE RATED WALL TO REMAIN, FOR OCCUPANCY SEPARATION SEE CODE ANALYSIS PLAN
	(E) WALL TO BE REMOVED, COORDINATE OPENINGS W/ MODERNIZATION PLANS
	(E) 1-HR FIRE RATED WALL TO BE REMOVED, COORDINATE OPENINGS W/ MODERNIZATION PLANS
	(E) DOOR TO BE REMOVED
	(E) WINDOW TO BE REMOVED
	(E) FLOOR SLAB TO BE REMOVED FOR FUTURE WORK. REFER TO MODERNIZATION PLANS & STRUCT. DWGS. FOR MORE INFO.
	AREA NOT IN SCOPE OF WORK

DEMOLITION GENERAL NOTES

1. WHERE DEMOLITION WORK HAS OCCURRED AT EXISTING WALL CONSTRUCTION AND THE EXISTING FINISHES HAVE BEEN DAMAGED AS A RESULT, THE CONTRACTOR SHALL REPLACE DAMAGED WALL FRAMING MEMBERS AND WALL FINISHES TO MATCH EXISTING.
2. VERIFY WITH ARCHITECT BEFORE ALTERING OR REMOVING ANY STRUCTURAL ITEMS INCLUDING BUT NOT LIMITED TO HOLD DOWNS, SHEAR WALLS, & BEARING WALLS UNLESS IDENTIFIED ON THE DRAWINGS AND APPROPRIATE DETAILS ARE APPROVED BY THE DEPARTMENT OF THE STATE ARCHITECT.
3. PROTECT ITEMS TO REMAIN.
4. NO DEMOLITION SHALL BEGIN UNTIL PLANS, INCLUDING DEMOLITION WORK, HAVE BEEN APPROVED BY DSA.
5. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
6. ALL DIMENSIONS ARE TO FACE OF STUD, CENTERLINE OF COLUMN OR EDGE OF SLAB, U.N.O.

LEGEND

	WALL STUD WIDTH FOR MORE INFO. SEE STRUCT. DWGS
	WALL TYPE, SEE SHEET AD-2.0 FOR DETAILS
	1-HR FIRE RATED WALL ASSEMBLY
	FOR COLUMN IN WALL ASSEMBLY, SEE DETAILS
	STL. COLUMN AT WOOD STUD WALL, PER STRUCT. DWGS.
	PERPENDICULAR WALL WHERE OCCURS
	PANIC HARDWARE, WHERE OCCURS
	DOOR NO., REFER TO SCHEDULE ON SHEET A1-8.0
	DOOR RATING, WHERE OCCURS
	WINDOW TYPE, REFER TO SCHEDULE ON SHEET A1-8.0
	(E) FLOOR SLAB TO REMAIN, PROTECT IN PLACE
	NEW CONCRETE FLOOR SLAB. MAINTAIN FLUSH TRANSITIONS TO (E) FLOOR SLAB. REFER TO STRUCT., MECH., & PLUM. DWGS. FOR MORE INFO.; SEE ALSO DET. 
	



GENERAL NOTES

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. ALL DIMENSIONS ARE TO FACE OF STUD, CENTERLINE OF COLUMN OR EDGE OF SLAB, U.N.O.
3. SEE **SHEET AD-2.0** FOR WALL TYPE INFORMATION.
4. FOR SHEAR WALL INFORMATION REFER TO STRUCTURAL DRAWINGS. AT LOCATIONS WHERE SHEAR WALL PANEL STOPS, ROYPOUD OF EQUAL THICKNESS SHALL BE INSTALLED ALONG REMAINING PORTION OF WALL TO MAINTAIN CONSISTENT FACE OF FINISH SURFACE.
5. PROVIDE **8-25** THERMAL BATT INSULATION AT ALL EXTERIOR WALLS, U.N.O.
6. PROVIDE **8-25** THERMAL BATT INSULATION AND INSULATION SHALL EXTEND FULL HEIGHT OF WALL TO UNDERSIDE OF ROOF STRUCTURE.
6. PROVIDE STUD BRACING AND SUPPORT FOR ALL WALL MOUNTED FIXTURES AND ACCESSORIES

PER DETAIL

11
SO-2.4

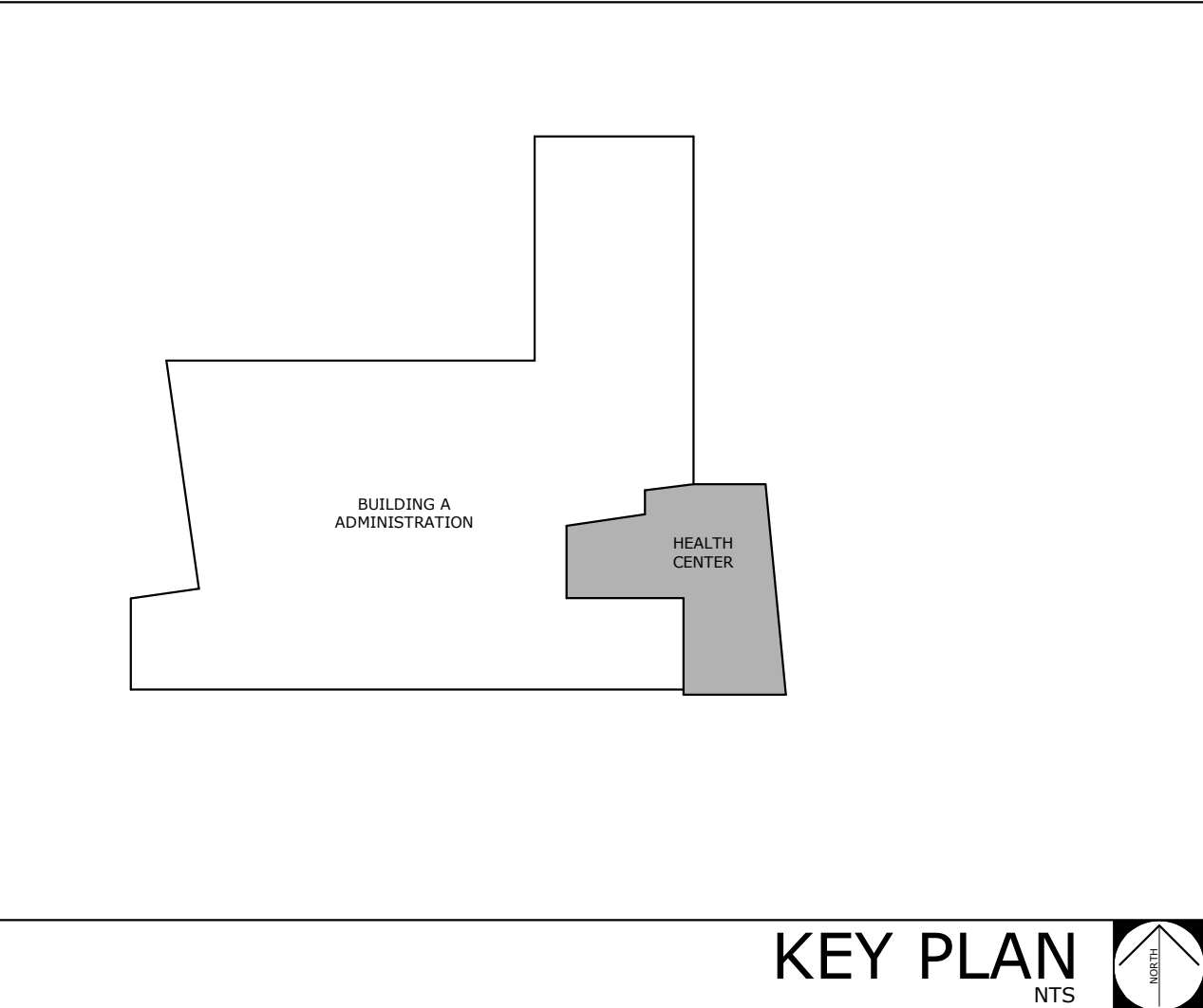
7. SEE **SHEET AI-8.0** FOR DOOR AND WINDOW INFORMATION
8. SET DOORS ADJACENT TO WALLS A MIN. OF 6" AWAY FROM WALL U.N.O.
9. PROVIDE ACOUSTICAL BATT INSULATION, IN WALL STUD CAVITY, AT ALL OFFICES, CONFERENCE ROOMS, AND RESTROOMS.
10. FOR TYPICAL INTERIOR WALL AT COLUMN CONDITION, REFER TO DETAIL

6	7
AD-2.1	AD-2.1

11. AT ALL INTERIOR WALLS, GYPSUM BOARD AND ACOUSTICAL INSULATION SHALL EXTEND FULL HEIGHT OF WALL TO UNDERSIDE OF ROOF STRUCTURE.
12. ALL CEILING OPEN TO STRUCTURE, SHALL HAVE GYPSUM BOARD EXTEND FULL HEIGHT OF WALL TO UNDERSIDE OF ROOF STRUCTURE.

KEYNOTES

02 01 07.3	EXISTING 1-HOUR FIRE RATED WALL CONSTRUCTION SHALL BE VERIFIED IN FIELD TO MEET CBC TABLE 721.1(2), ITEM #163.1.2 1-HR RATED WALL ASSEMBLY, AND SHALL BE CONSTRUCTED AS PRESCRIBED
02 01 10.3	EXISTING SEMI-RECESSED FIRE EXTINGUISHER CABINET TO REMAIN, PROTECT IN PLACE
02 41 04.2	(E) CMI VENEER SYSTEM TO BE REMOVED FROM THIS FACE OF WALL, (E) WOOD STUD WALL TO REMAIN, PROTECT IN PLACE
02 41 05.1	(E) CORRUGATED STEEL SIDING & (E) CMI VENEER SYSTEM TO BE REMOVED FROM FACE OF WALL AT EXTENTS OF NEW WALL TIE-IN, (E) WOOD STUD & INTERIOR FINISH TO REMAIN
02 41 05.2	DEMO EXISTING METAL PIPE COLUMN, THE STRUCTURAL SUPPORT OF WINGWALLS, ABOVE GROUND, CUT & GRIND SMOOTH
02 41 05.3	DEMO EXISTING METAL SUSPENDED WING WALL SYSTEM
02 41 08.1	DEMO EXISTING DOOR AND FRAME
02 41 08.2	DEMO EXISTING WINDOW
02 41 08.4	DEMO EXISTING STOREROFF
02 41 09.5	(E) GYPSUM BOARD FROM FACE OF WALL, (E) WOOD STUD WALL & (E) FINISH OF AREA NOT IN CONTRACT TO REMAIN, PROTECT IN PLACE
02 41 10.1	REMOVE EXISTING MARKERBOARD, RETURN TO OWNER
02 41 10.2	REMOVE EXISTING CORKBORD, RETURN TO OWNER
02 41 10.5	CONTRACTOR TO UNINSTALL, PROTECT, STORE & REINSTALL PORTION OF EXISTING MOBILE STORAGE SHELVING SYSTEM AS REQUIRED TO PERFORM NEW WORK IN THIS AREA
02 41 10.6	DISMANTLE EXISTING SEMI-RECESSED FIRE EXTINGUISHER CABINET, PATCH BACK WALL FINISH IN KIND TO EXISTING ADJACENT SURFACES
02 41 11.1	DEMO EXISTING WALL MOUNTED PROJECTION SCREEN
02 41 12.2	DEMO EXISTING CASEWORK
02 41 12.3	DEMO EXISTING COUNTERTOP
02 41 22.2	DEMO EXISTING SINK PER PLUMBING DRAWINGS
02 41 22.3	DEMO EXISTING DUAL HEIGHT DRINKING FOUNTAIN WITH BOTTLE FILLER PER PLUMBING DRAWINGS
02 41 26.2	REMOVE EXISTING ILLUMINATED EXIT SIGN, PATCH BACK WALL & PAINT TO MATCH
06 22 00.1	SPECIALTY RECEPTION DESK
07 80 00.3	PROTECT IN PLACE (E) 1-HR FIRE RATED WALL ASSEMBLY WHERE PIPING OCCURS AT DRINKING FOUNTAIN & BOTTLE FILLER, IF PIPING REQUIRES REWORKING IN THE FIRE RATED WALL ASSEMBLY, REPAIR ASSEMBLY TO MATCH EXISTING 1-HR RATED WALL UL ASSEMBLY, U344
09 65 19.1	PATCH & REPAIR VINYL COMPOSITE TILE FLOORING IN KIND, TO MATCH EXISTING
09 70 00.1	PATCH & REPAIR WALL FINISH IN KIND, WITH NEW GYPSUM WALL BOARD LAYER & PAINT TO MATCH EXISTING
10 44 00.3	RECESSED FIRE EXTINGUISHER CABINET
22 47 13.1	DUAL HEIGHT DRINKING FOUNTAIN WITH BOTTLE FILLER PER PLUMBING DRAWINGS



DEMO & NEW FLOOR PLANS

A1-1.0

1-78-50

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

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

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**INDIAN SPRINGS HIGH SCHOOL HEALTH
CENTER**
INDIAN SPRINGS HIGH SCHOOL
650 N DEL ROSA DR, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

CENTER
INDIAN SPRINGS HIGH SCHOOL

650 N DEL ROSA DR, SAN BERNARDINO, CA 92411
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

PROJECT No. :1-78-50
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DEMOLITION LEGEND

AREA NOT IN SCOPE OF WORK

DEMO EXTERIOR PLASTER CEILING SYSTEM

DEMO GYPSUM BOARD CEILING SYSTEM

DEMO (E) 2'-0" x 2'-0" SUSPENDED TEE BAR ACOUSTICAL CEILING

DEMO (E) 2'-0" x 4'-0" SUSPENDED TEE BAR ACOUSTICAL CEILING

(E) 2'-0" x 2'-0" SUSPENDED TEE BAR ACOUSTICAL CEILING

DEMO EXISTING LINEAR STRIP LIGHT FIXTURE PER ELEC. DWGS.

DEMO EXISTING RECESSED CAN LIGHT FIXTURE 6" ROUND PER ELEC. DWGS.

EXISTING ACT LIGHT FIXTURE 2'-0" X 2'-0" TO REMAIN, PROTECT IN PLACE PER ELEC. DWGS.

DEMO EXISTING ACT LIGHT FIXTURE 2'-0" X 2'-0"

EXISTING SUPPLY AIR REGISTER TO REMAIN, PROTECT IN PLACE PER MECHANICAL DWGS.

DEMO EXISTING SUPPLY AIR REGISTER PER MECHANICAL DWGS.

EXISTING RETURN AIR REGISTER TO REMAIN, PROTECT IN PLACE PER MECHANICAL DWGS.

DEMO EXISTING RETURN AIR REGISTER PER MECHANICAL DWGS.

DEMO EXISTING FIRE SPRINKLER HEAD PER FIRE PROTECTION DRAWINGS

DEMOLITION GENERAL NOTES

1. ALL LIGHT FIXTURES TO BE CENTERED IN SPACE, U.N.O.

2. ALL CEILING HEIGHTS ARE RELATIVE TO THE FINISH FLOOR DIRECTLY BENEATH.

3. ACOUSTICAL CEILING TILES AND GRID TO BE CENTERED IN ROOM. SEE **SHEET AD-4.0** FOR SUSPENDED CEILING SEISMIC BRACING DETAILS AND TRAPEZE DETAILS

4. ALL EXPOSED STRUCTURE TO BE COVERED WITH BLACK SCRIM PAPER FASTENED TO BOTTOM OF JOISTS. ALL MECHANICAL (INCLUDING REGISTERS), ELECTRICAL, PLUMBING, HANGER, BRACING, SUPPORT WIRE, ETC. BELOW BLACK SCRIM PAPER TO BE PAINTED BLACK TO MATCH. REFER TO U.O.S. CEILINGS ON RCP AND IN FINISH SCHEDULE. ALL SUPPLIES AND RETURN REGISTERS TO BE PRE-FINISHED TO MATCH SCRIM PAPER COLOR.

5. ALL MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT TO BE SECURED AS TIGHT AS POSSIBLE TO CEILING STRUCTURE

6. ALL CONDUIT IN EXPOSED AREAS WHERE CEILING STRUCTURE IS EXPOSED CAN ONLY PENETRATE WALLS AT ROOF / FLOOR DECK

7. REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR CEILING COMPONENT CALLOUTS AND FIXTURE TYPES

8. PAINT ALL SUPPLY & RETURNS OF ALL ACCENT PAINTED CEILING AREAS

NEW LEGEND

INDICATES THE SPAN DIRECTION OF CEILING WOOD JOIST FRAMING. FOR SIZE & SPACING, SEE STRUCT.

INDICATES WOOD HEADER, SEE STRUCT. FOR SIZE & SPAN INFO.

U.O.S.

ELEVATION OF CEILING FINISH SURFACE RELATIVE TO FINISH FLOOR BELOW

CEILING ACCESS HATCH PANEL, 22" X 30" MIN., PAINT TO MATCH ADJACENT CEILING, PER DETAIL

LIMITED WORK INVOLVED IN AREA, SEE MECHANICAL, PLUMBING, ELECTRICAL, & FIRE ALARM DRAWINGS FOR SCOPE OF WORK INVOLVED

METAL COMPOSITE PANEL (MCP-1) SEE SPECIFICATION SECTION 07 42 13.23

TYP. ATTACHMENT DETAIL

2'-0" x 2'-0" SUSPENDED TEE BAR ACOUSTICAL CEILING (ACT-1) PER DETAIL

GYPSUM BOARD CEILING SYSTEM PAINTED PER FINISH SCHEDULE PER DETAIL

PLASTIC LAMINATE CEILING PANELS OVER MCF SUBSTRATE (PC-1) OVER GYPSUM BOARD CEILING SYSTEM, PER DETAIL

EXTERIOR STEEL PLATE W/ CUSTOM PERFORATED GRAPHIC, SEE C.M.F. LEGEND & DETAIL

ACOUSTICAL CEILING CLOUDS PER DETAIL & SEE C.M.F. LEGEND SPEC SECTION 09 04 30

ACP-1

ACP-2

LINEAR SURFACE MOUNTED LIGHT FIXTURE PER ELEC. DWGS.

RECESSED LINEAR LIGHT FIXTURE PER ELEC. DWGS.

PENDANT LINEAR LIGHT FIXTURE PER ELEC. DWGS.

PENDANT LIGHT FIXTURE PER ELEC. DWGS.

RECESSED CAN LIGHT FIXTURE 6" ROUND PER ELEC. DWGS.

ACT LIGHT FIXTURE 2'-0" X 2'-0" PER DETAIL

SUPPLY AIR REGISTER PER MECHANICAL DWGS.

RETURN AIR REGISTER PER MECHANICAL DWGS.

EXHAUST AIR REGISTER PER MECHANICAL DWGS.

FIRE SPRINKLER HEAD PER FIRE PROTECTION DRAWINGS

16

AD-4.1

22

AD-4.1

20

AD-4.1

18

AD-4.1

17

AD-4.1

15

AD-4.0

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AD-4.0

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AD-4.1

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AD-4.1

27

AD-3.1

24

AD-4.1

30

AD-2.0

AGENCY APPROVAL
FIG. 101-36-07 A104-122900

REGISTERED ARCHITECT
No. 0-1156
Exp. 10-31-25
STATE OF CALIFORNIA

STAMPS

CONSULTANT BRANDING

RUHNAU
CLARKE
ARCHITECTS

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7. REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR CEILING COMPONENT CALLOUTS AND FIXTURE TYPES

8. PAINT ALL SUPPLY & RETURNS OF ALL ACCENT PAINTED CEILING AREAS

KEYNOTES

02 01 08.4 EXISTING SOFFIT TO REMAIN, PATCH & REPAIR WALL TO MATCH EXISTING

02 41 04.2 (E) CHU VENER SYSTEM TO BE REMOVED FROM THIS FACE OF WALL. (E) WOOD STUD WALL TO REMAIN, PROTECT IN PLACE

02 41 05.2 DEMO EXISTING METAL PIPE COLUMN, THE STRUCTURAL SUPPORT OF WINGWALLS, ABOVE GROUND. CUT & GRIND SMOOTH

02 41 05.3 DEMO EXISTING METAL SUSPENDED WING WALL SYSTEM

02 41 08.4 DEMO EXISTING STOREFRONT

02 41 09.4 (E) EXTERIOR PLASTER SYSTEM & COPING TO BE REMOVED FROM THIS FACE OF WALL. (E) WOOD STUD WALL & PLASTER SYSTEM ABOVE (E) ROOF TO REMAIN, PROTECT IN PLACE

02 41 09.6 REMOVE, SALVAGE, STORE, & REPLACE EXISTING CEILING TILES AS NEEDED FOR INSTALLATION OF NEW WORK

02 41 11.1 DEMO EXISTING WALL MOUNTED PROJECTION SCREEN

02 41 11.2 REMOVE EXISTING WALL MOUNTED SHORT THROW PROJECTOR, RETURN TO OWNER

02 41 26.5 REMOVE EXISTING ILLUMINATED EXT SIGN, REPAIR/REPLACE CEILING TILE TO MATCH EXISTING

BUILDING & ADMINISTRATION

HEALTH CENTER

KEY PLAN

INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER:

1-78-50

PROJECT No. :1-78-50
9/11/2025 11:10:45 AM

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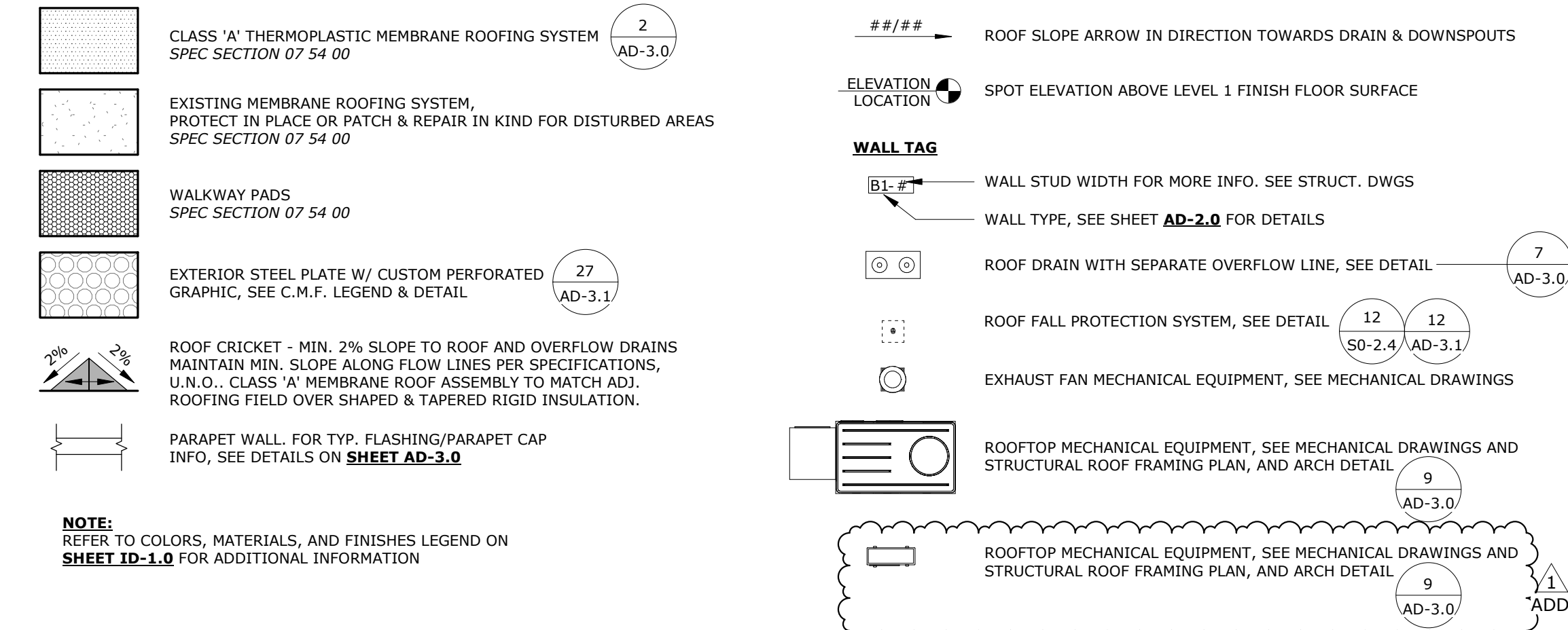
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LEGEND



1. SEE DETAIL FOR TYPICAL ROOF ASSEMBLY.
2. FOR PIPE VENT PENETRATIONS THROUGH ROOF, REFER TO DETAIL & FOR TYP. INFO.
3. ALL CRICKETS SHALL BE SHAPED WITH RIGID INSULATION WITH A MIN. 1.5% SLOPE TO ROOF AND OVERFLOW DRAINS.
4. PROVIDE 36" WIDE CONTINUOUS WALKWAY TREAD FROM THE LANDING OF EACH ROOF ACCESS HATCH TO EACH MECHANICAL UNIT. TREAD AT EACH UNIT TO SURROUND PERIMETER.
5. AT MECHANICAL EQUIPMENT, REFER TO DETAIL FOR ROOF CURB
6. CONTRACTOR TO VERIFY (E) ROOF SLOPES PRIOR TO DEMOLITION/CONSTRUCTION
7. PROVIDE **MIN. R-30** RIGID INSULATION AT NEW ROOFS OVER CONDITIONED SPACE

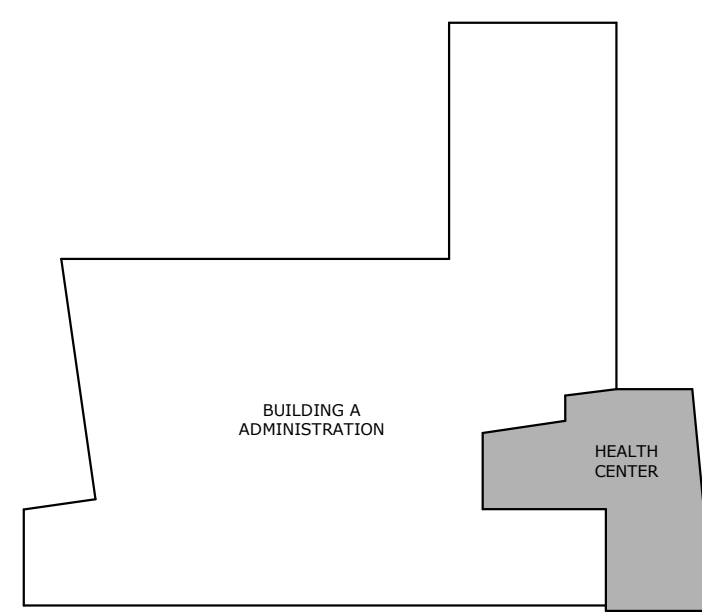
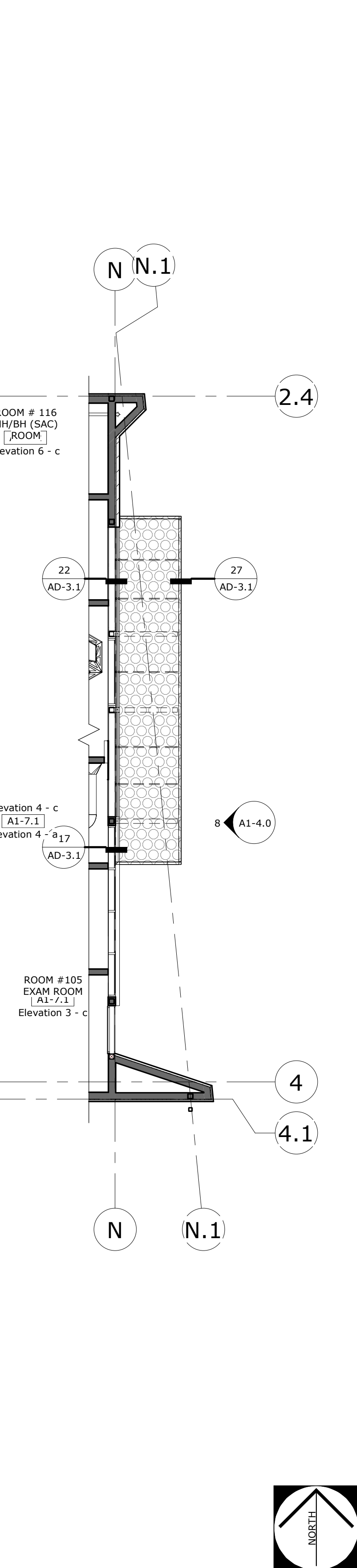
02.01 07.01	EXISTING ROOF TO REMAIN, PROTECT IN PLACE
02.01 07.02	EXISTING SHADE CANOPY TO REMAIN, PROTECT IN PLACE
02.01 10.01	EXISTING SCHEMATIC IDENTIFICATION SIGNAGE & RAIL MOUNTS TO REMAIN, PROTECT IN PLACE
02.01 10.02	EXISTING ROOF DRAINAGE TO REMAIN, CLEAR ANY GUTTERS & PROTECT DRAIN IN PLACE
02.01 22.02	EXISTING HOSE BIBB TO REMAIN, PROTECT IN PLACE, SEE MECH DWGS. FOR MORE INFO.
02.01 00.07.1	DEMO EXISTING ROOF
02.01 07.01	DEMO PORTION OF EXISTING ROOF FOR INSTALLATION OF NEW MECH EQUIPMENT
02.01 09.04	(E) EXTERIOR PLASTER SYSTEM & COPING TO BE REMOVED FROM THIS FACE OF WALL. (E) WOOD STILD WALL & PLASTER SYSTEM ABOVE (E) ROOF TO REMAIN, PROTECT IN PLACE
05.01 33.01	METAL CROSSOVER LADDER
07.01 50.01	PATCH & REPAIR DISTURBED AREA WITH NEW ROOFING IN KIND, TO MATCH EXISTING CONDITION, FOR INSTALLATION OF NEW MECH EQUIPMENT
07.05 13.02	EXTERIOR ROOF EXPANSION JOINT COVER

CONDITIONED FLOOR AREA (CFA) = 1,400 SF
CLIMATE ZONE II
BUILDING TYPE = SCHOOL
PV CAPACITY FACTOR (A) PER 2022 CA ENERGY CODE, TABLE 140.10-A = 1.63
PV SYSTEM TYPE (B) PER 2022 CA ENERGY CODE, TABLE 140.10-B = 1.87
PV SYSTEM TYPE (C) PER 2022 CA ENERGY CODE, TABLE 140.10-C = 1.87

PV SYSTEM SIZE REQUIRED
KW/PDVC = (CFA) x (A) / 1000
= 1,400 x 1.63 / 1000
= 2,282 KW ---> EXEMPT PER DSA II R-3, SECTION 2.1.2

OF PV PANELS REQUIRED
2,282 KW x 1000 = 2,282 W
2,282 W / 435 W = 6 PV PANELS
6 PANELS X 25.5 SF = 153 SF

BATTERY STORAGE SYSTEM SIZE REQUIRED
EXEMPT PER DSA II R-3, SECTION 2.1.2
(NO PV REQUIRED - NO BATTERY STORAGE REQUIRED)

**INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER:**

PART. (N) ROOF

KEY PLAN

KEY PLAN

A1-3.0



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STAMPS

CONSULTANT BRANDIN

GENERAL NOTES

1. CONTRACTOR TO COORDINATE ALL EXTERIOR ROOF OPENINGS & VENTS WITH MECHANICAL, ELECTRICAL, STRUCTURAL & PLUMBING DRAWINGS PRIOR TO ROUGH-IN.
2. SEE DETAILS $\frac{8}{AD-3.0}$ & $\frac{13}{AD-3.0}$ FOR TYPICAL ROOF VENT PENETRATION DETAIL.
3. PROVIDE **R-30** RIGID INSULATION AT NEW ROOFS OVER CONDITIONED SPACE.
4. SEE DETAIL $\frac{2}{AD-3.0}$ FOR TYPICAL ROOF CONSTRUCTION ASSEMBLY.
5. PROVIDE **R-15** BATT INSULATION AT ALL EXTERIOR WALLS, U.N.O. GYPSUM BOARD AND INSULATION SHALL EXTEND FULL HEIGHT OF WALL TO UNDERSIDE OF ROOF STRUCTURE
6. ALL EXPOSED STRUCTURE, INCLUDING MECHANICAL & PLUMBING EQUIPMENT TO BE PAINTED **P-1**.

KEYNOTES

07 95 13.4 INTERIOR CEILING EXPANSION JOINT COVE



PROJECT No. :1-78-50
9/11/2025 11:10:57 AM

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INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER

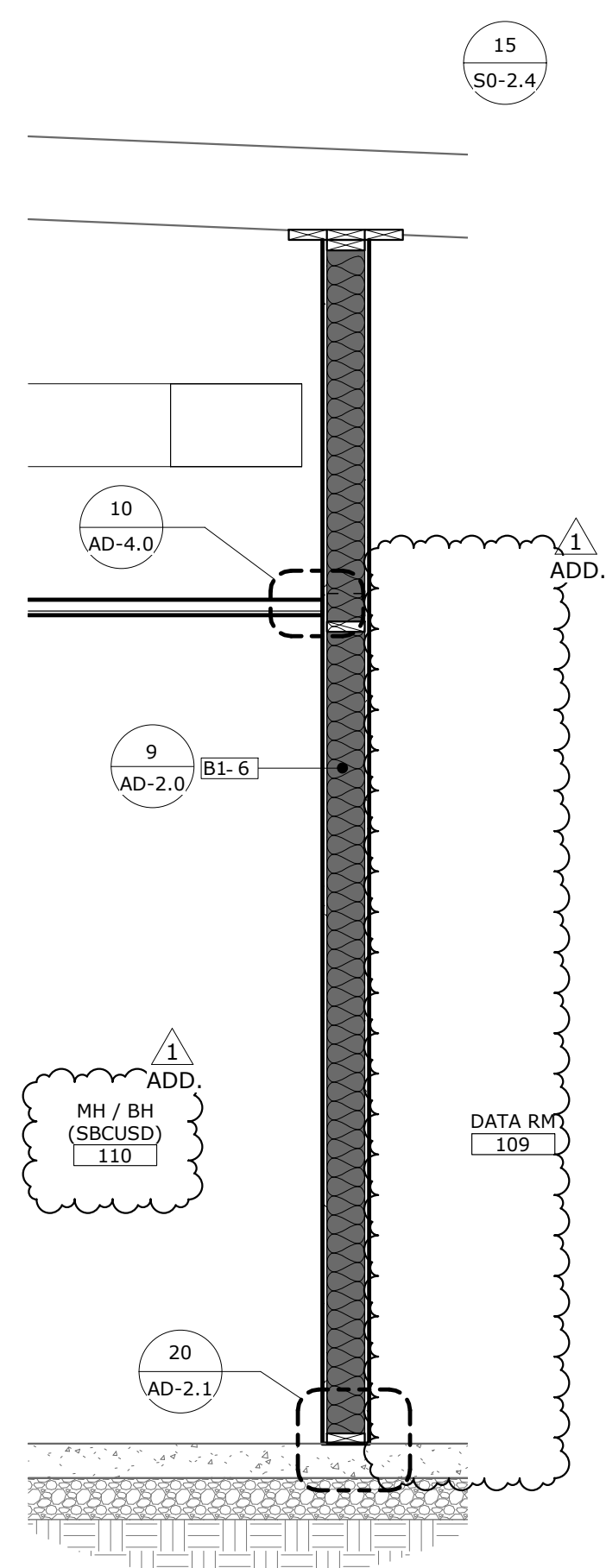
INDIAN SPRINGS HIGH SCHOOL
650 N DEL ROSA DR, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

BUILDING SECTIONS

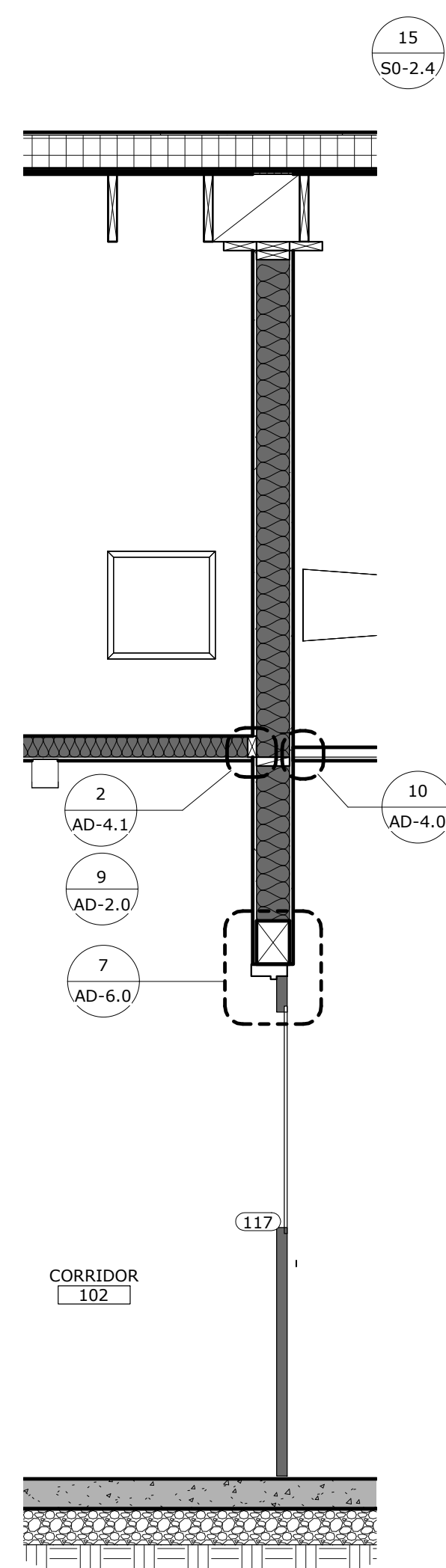
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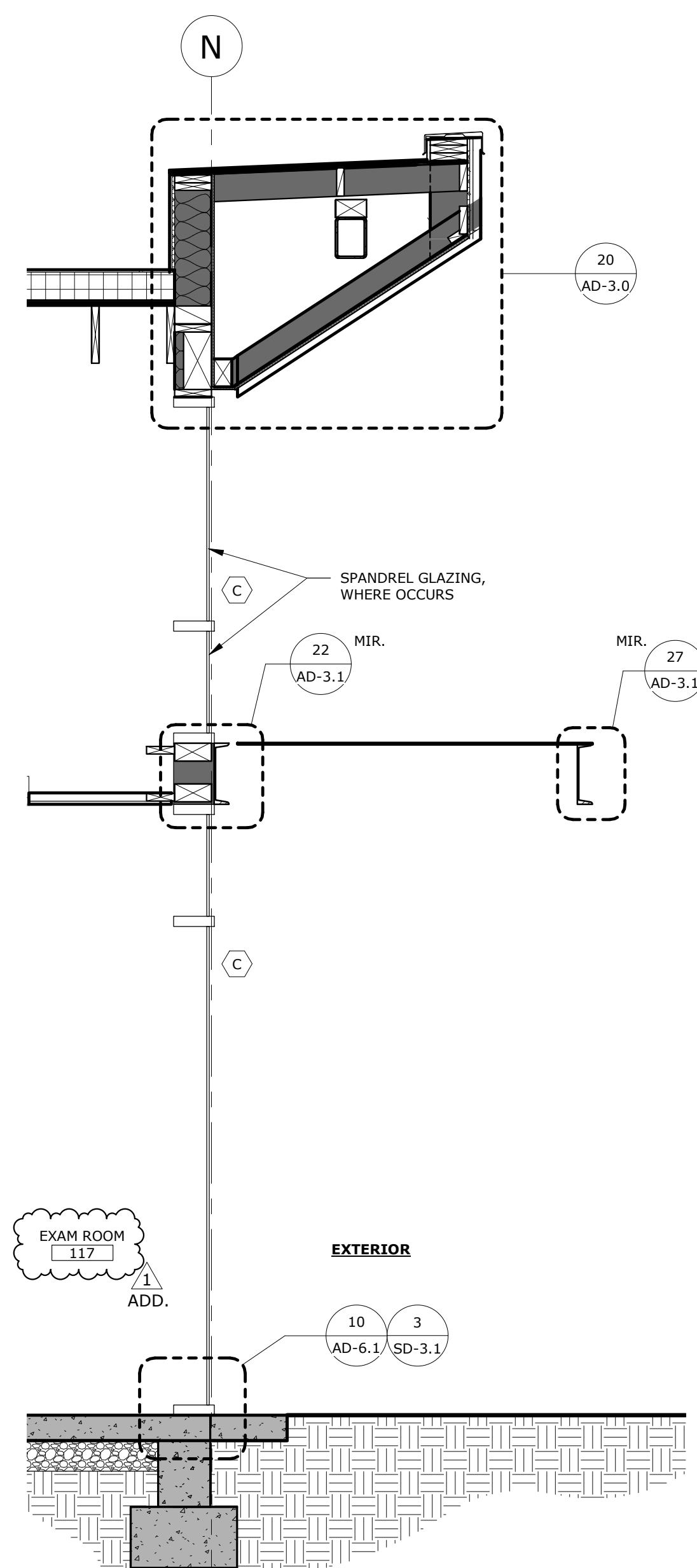
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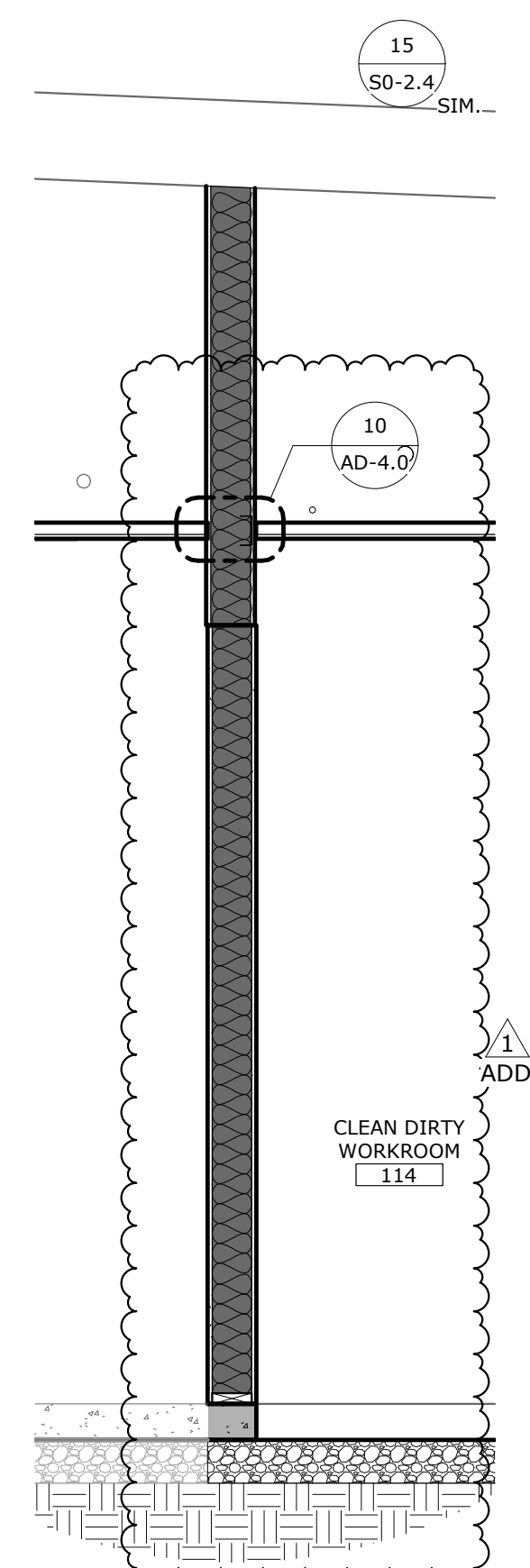
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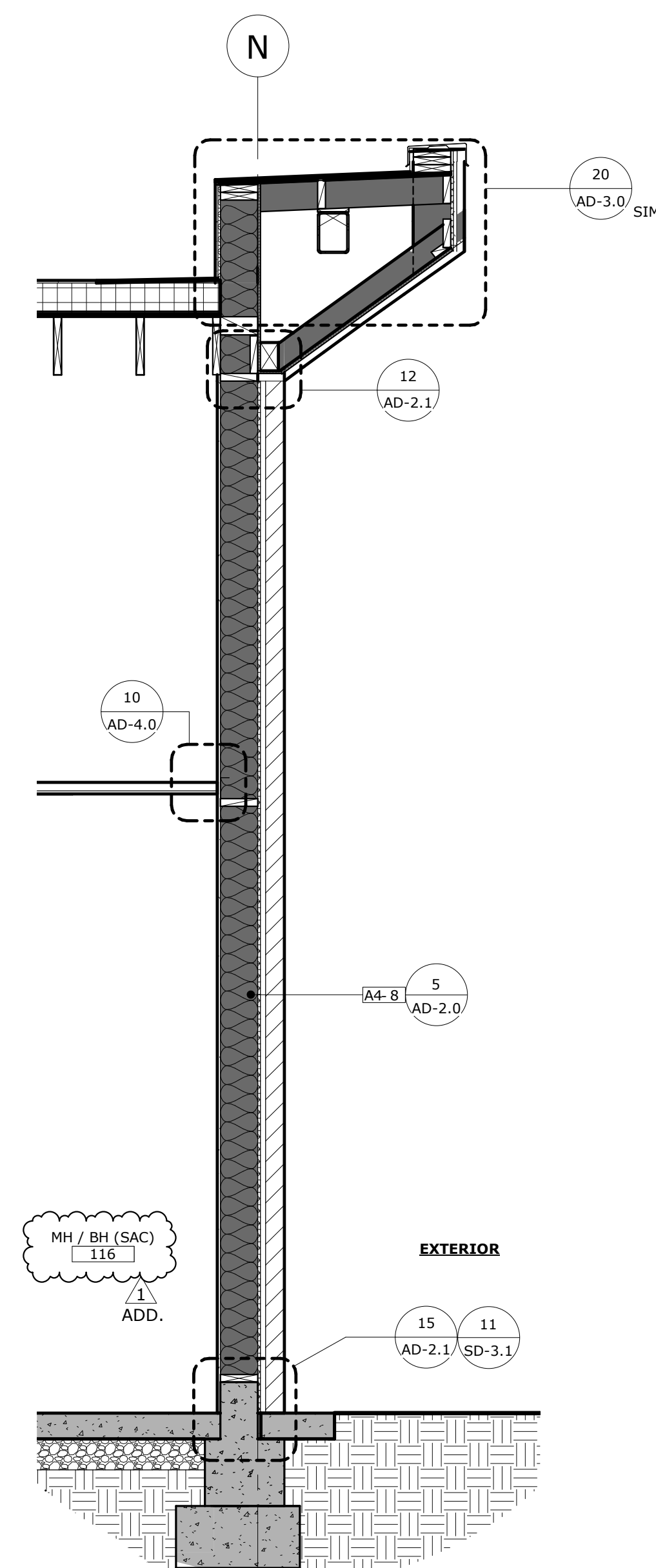
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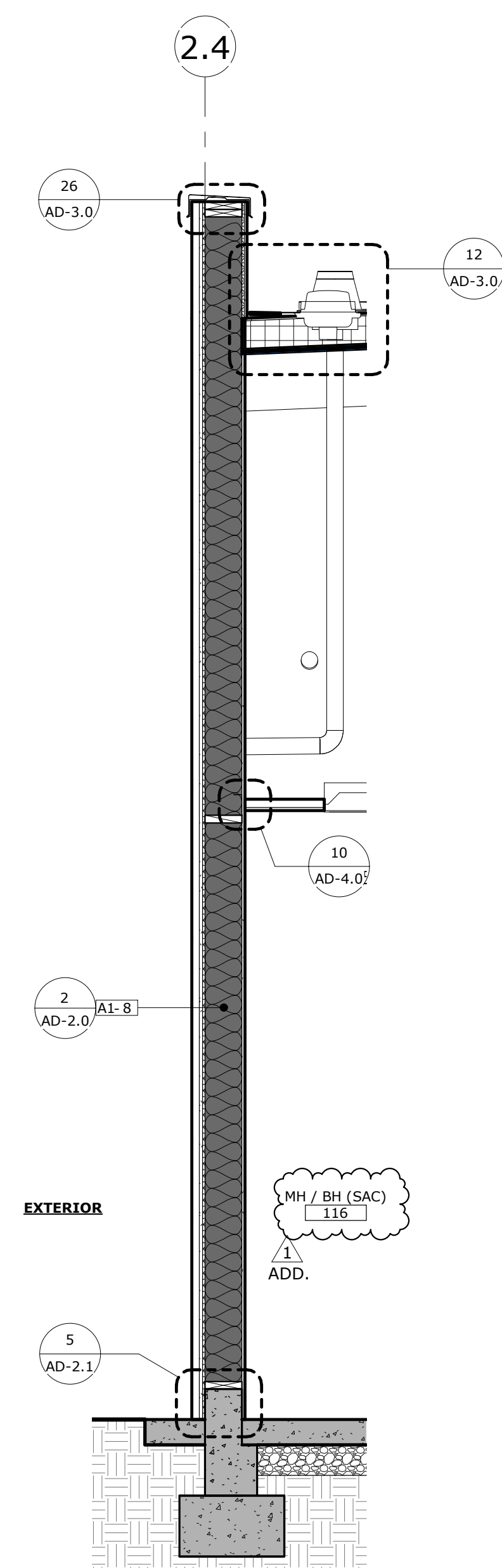
WALL SECTION	SCALE: 1/2" = 1'-0"	3
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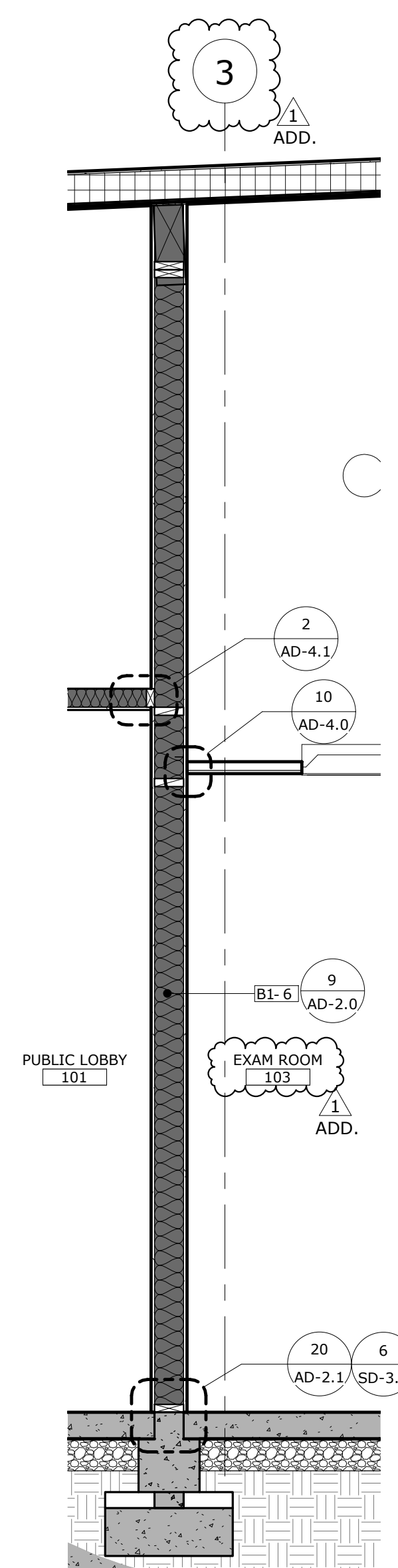
WALL SECTION	SCALE: 1/2" = 1'-0"	2
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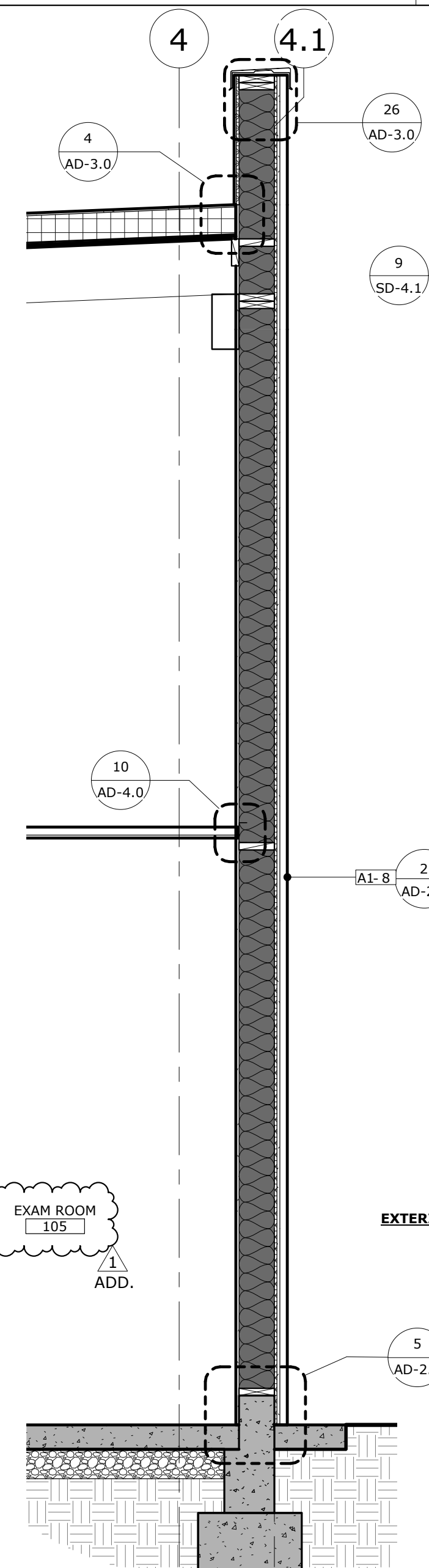
WALL SECTION	SCALE: 1/2" = 1'-0"	1
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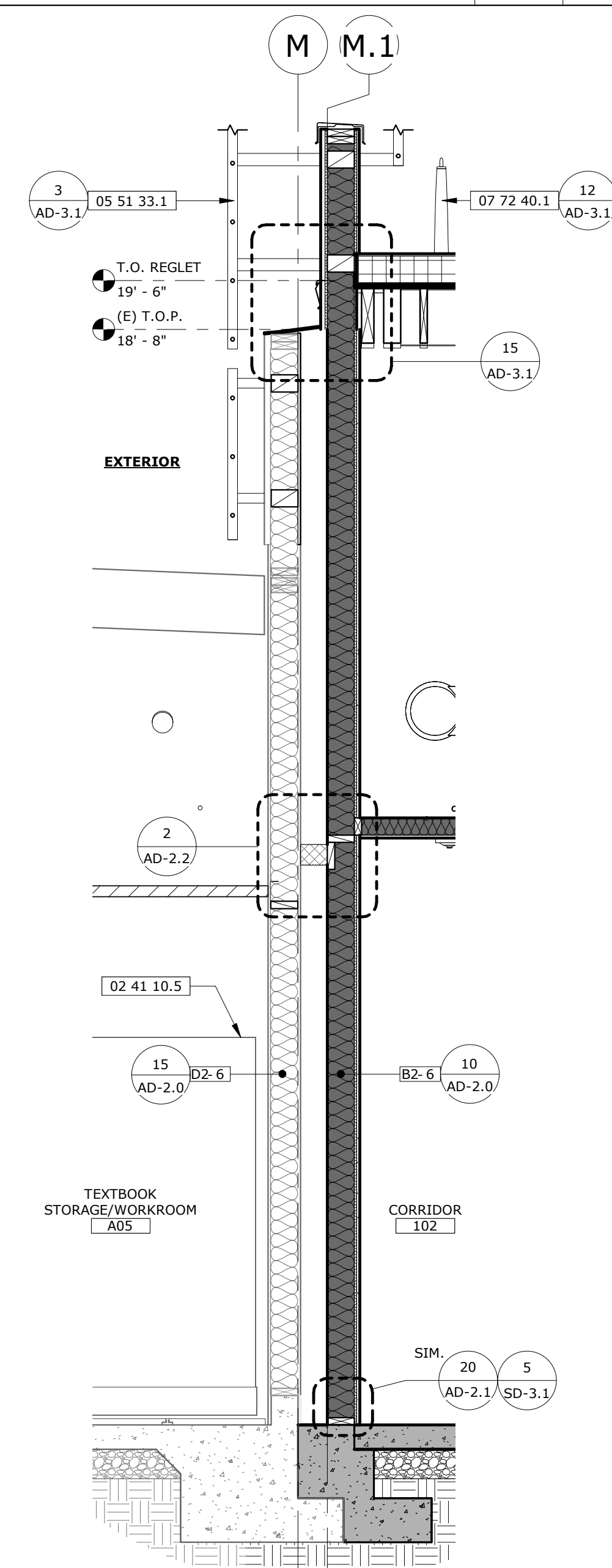
WALL SECTION $1/2" = 1'-0"$ 10



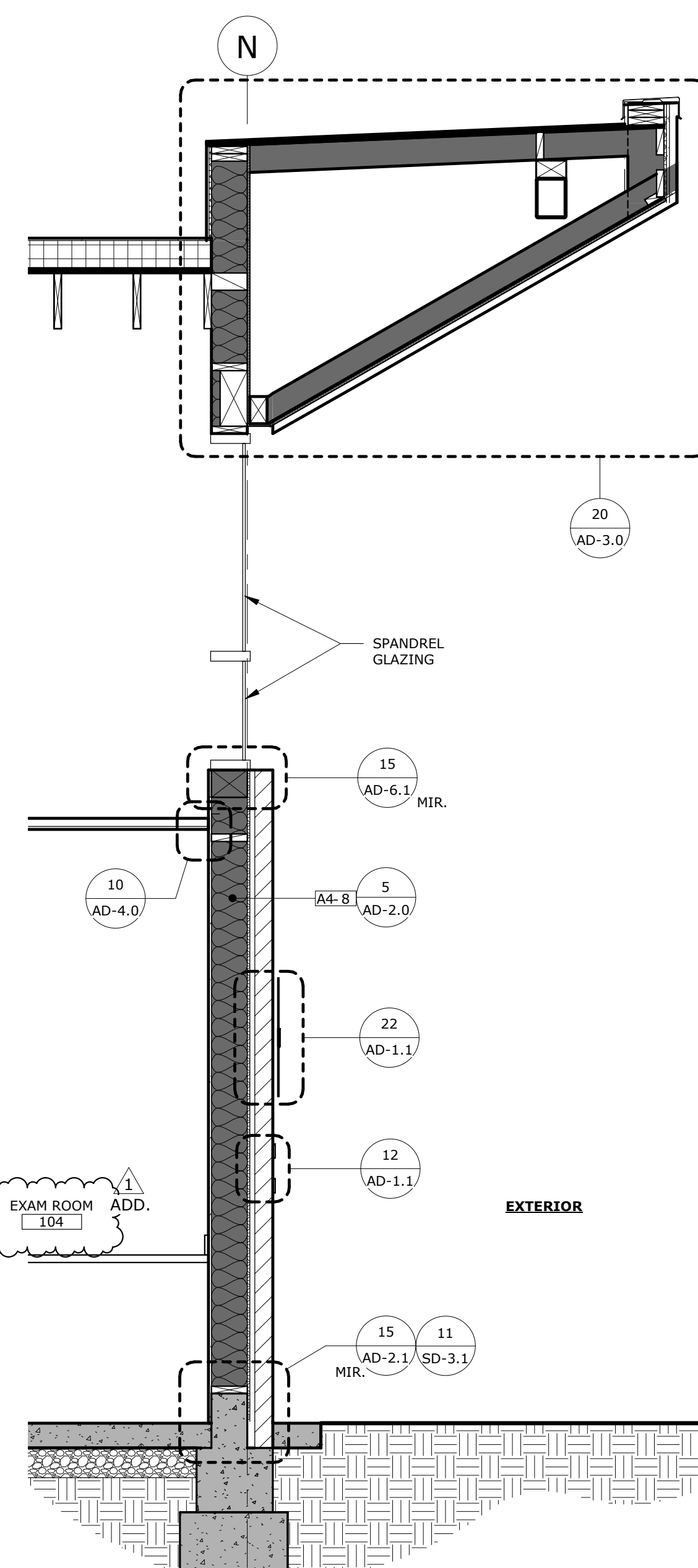
WALL SECTION	SCALE: 1/2" = 1'-0"	9
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WALL SECTION	SCALE: 1/2" = 1'-0"	8
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WALL SECTION	SCALE: 1/2" = 1'-0"	7
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WALL SECTION	SCALE: 1/2" = 1'-0"	6
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AGENCY APPROVAL
File No. 76-147 4404 133000

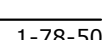
RUHNAU
CLARKE
ARCHITECTS

GENERAL NOTES

1. CONTRACTOR TO COORDINATE ALL EXTERIOR ROOF OPENINGS & VENTS WITH MECHANICAL, ELECTRICAL, STRUCTURAL & PLUMBING DRAWINGS PRIOR TO ROUGH-IN.
2. SEE DETAILS  &  FOR TYPICAL ROOF VENT PENETRATION DETAIL.
3. PROVIDE **R-30** RIGID INSULATION AT NEW ROOFS OVER CONDITIONED SPACE.
4. SEE DETAIL  FOR TYPICAL ROOF CONSTRUCTION ASSEMBLY.
5. PROVIDE **R-25** BATT INSULATION AT ALL EXTERIOR WALLS, U.N.O. GYPSUM BOARD AND INSULATION SHALL EXCEED FULL HEIGHT OF WALL TO UNDERSIDE OF ROOF STRUCTURE
6. ALL EXPOSED STRUCTURE, INCLUDING MECHANICAL & PLUMBING EQUIPMENT TO BE PAINTED **P-1**

KEYNOTES

02 41 10.5	CONTRACTOR TO UNINSTALL, PROTECT, STORE & REINSTALL PORTION OF EXISTING MOBILE STORAGE SHELVING SYSTEM AS REQUIRED TO PERFORM NEW WORK IN THIS AREA
05 51 33.1	METAL CROSSOVER LADDER
07 72 40.1	FALL PROTECTION ANCHOR





STAMPS

CONSULTANT BRANDIN

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ARCHITECTS

GENERAL NOTES

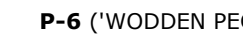
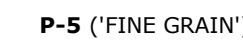
1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. PROVIDE STUD BRACING AND SUPPORT FOR ALL WALL MOUNTED FIXTURES AND ACCESSORIES, PER DETAIL
3. FOR MORE INFO ON COLORS, MATERIALS, & FINISHES SEE **SHEET 10-1.0**
4. FOR WALL TILE INFO., SEE DETAIL 
5. FOR MORE INFO ON RESTROOM ACCESSORIES, REFER TO SPEC SECTION 10 28 00
6. FOR ACCESSIBILITY INFORMATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES & ACCESSORIES, SEE ADULT DIMENSIONS PER DETAIL 
7. FOR TACKABLE WALL PANEL ATTACHMENT, SEE DETAIL 
8. FOR TYPICAL ATTACHMENT OF ACOUSTICAL WALL PANEL., SEE DETAIL 
9. AT ACCESSIBLE TOILET STALLS, THE DOOR SHALL BE SELF CLOSING WITH A DOOR PULL PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH, PER CBC SECTION 11B-404.2.7, 11B-604.8.1.2, & 11B-604.8.2.2.

KEYNOTES

09 65 19 34 RUBBER BASE

INTERIOR ELEVATIONS LEGEND

INTERIOR PAINTS



WALL COVERINGS



WALL TILE



TACKABLE WALL PANELS



SOUND ABSORBING WALL PANELS



RESIN PANEL



PLASTIC LAMINATE



NOTE:
REFER TO COLORS, MATERIALS AND FINISHES LEGEND ON **SHEET ID-1.0** FOR ADDITIONAL INFORMATION

PROJECT No. :1-78-50
9/11/2025 11:11:34 AM

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CENTER**
INDIAN SPRINGS HIGH SCHOOL
650 N DEL ROSA DR, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

INTERIOR ELEVATIONS

A1-7.2

1-78-50

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	EXTERIOR	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	FRAME	JAMB 1	JAMB 2	SILL/THRESHOLD	GLAZING TYPE	CLOSER	HARDWARE GROUP	PANIC HARDWARE	FIRE RATING	ELECTRONIC ACS. CTRL.	DOOR NO.	REMARKS	
101	A	Yes	6'-0"	8'-0"	2"	ALUM/GLASS	FF	ALUM-1	ALUM	PSG	FF	ALUM-1	4/AD-6.1	3/AD-6.1	3/AD-6.1	5/AD-6.1	GL-1	YES	1.0	Yes	N/A	Yes	101	
102	B	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-8	HM	PSG	P-8	N/A	21/AD-6.0	21/AD-6.0	22/AD-6.0	HM	NO	3.0	Yes	N/A	No	102	PROVIDED BY MILLWORK	
103	C	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	8/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	GL-2	YES	5.0	No	N/A	No	103	ACoustically RATED TO STC 42
104	D	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	ADD	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	104	ACoustically RATED TO STC 42
105	E	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	ADD	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	105	ACoustically RATED TO STC 42
106	F	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	ADD	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	106	ACoustically RATED TO STC 42
107	G	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-8	HM	PSG	P-8	N/A	9/AD-6.0	10/AD-6.0	10/AD-6.0	18/AD-6.0	G-2	YES	7.0	No	N/A	No	107	1" UNDERCUT AT DOOR
108	H	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-8	HM	PSG	P-8	N/A	9/AD-6.0	10/AD-6.0	10/AD-6.0	18/AD-6.0	G-2	YES	7.0	No	N/A	No	108	1" UNDERCUT AT DOOR
109	I	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-9	HM	PSG	P-9	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	109	1" UNDERCUT AT DOOR
110	J	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-8	HM	PSG	P-8	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	110	1" UNDERCUT AT DOOR
111	K	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-8	HM	PSG	P-8	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	111	1" UNDERCUT AT DOOR
112	L	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-8	HM	PSG	P-8	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	112	1" UNDERCUT AT DOOR
113	M	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-8	HM	PSG	P-8	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	113	1" UNDERCUT AT DOOR
114	N	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-8	HM	PSG	P-8	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	114	1" UNDERCUT AT DOOR
115	O	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-8	HM	PSG	P-8	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	115	1" UNDERCUT AT DOOR
116	P	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	116	1" UNDERCUT AT DOOR
117	Q	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	117	1" UNDERCUT AT DOOR
118	R	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	118	1" UNDERCUT AT DOOR
119	S	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	119	1" UNDERCUT AT DOOR
120	T	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	120	1" UNDERCUT AT DOOR
121	U	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	121	1" UNDERCUT AT DOOR
122	V	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	122	1" UNDERCUT AT DOOR
123	W	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	123	1" UNDERCUT AT DOOR
124	X	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	124	1" UNDERCUT AT DOOR
125	Y	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	125	1" UNDERCUT AT DOOR
126	Z	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	126	1" UNDERCUT AT DOOR
127	AA	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	127	1" UNDERCUT AT DOOR
128	AB	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	128	1" UNDERCUT AT DOOR
129	AC	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	129	1" UNDERCUT AT DOOR
130	AD	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	130	1" UNDERCUT AT DOOR
131	AE	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	131	1" UNDERCUT AT DOOR
132	AF	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	132	1" UNDERCUT AT DOOR
133	AG	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	133	1" UNDERCUT AT DOOR
134	AH	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	134	1" UNDERCUT AT DOOR
135	AI	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	135	1" UNDERCUT AT DOOR
136	AJ	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	136	1" UNDERCUT AT DOOR
137	AK	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	137	1" UNDERCUT AT DOOR
138	AL	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	138	1" UNDERCUT AT DOOR
139	AM	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	139	1" UNDERCUT AT DOOR
140	AN	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	140	1" UNDERCUT AT DOOR
141	AO	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	141	1" UNDERCUT AT DOOR
142	AP	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	142	1" UNDERCUT AT DOOR
143	AQ	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	143	1" UNDERCUT AT DOOR
144	AR	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	144	1" UNDERCUT AT DOOR
145	AS	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	145	1" UNDERCUT AT DOOR
146	AT	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	146	1" UNDERCUT AT DOOR
147	AU	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	147	1" UNDERCUT AT DOOR
148	AV	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	148	1" UNDERCUT AT DOOR
149	AW	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	149	1" UNDERCUT AT DOOR
150	AX	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	150	1" UNDERCUT AT DOOR
151	AY	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	151	1" UNDERCUT AT DOOR
152	AZ	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	152	1" UNDERCUT AT DOOR
153	BA	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	153	1" UNDERCUT AT DOOR
154	BB	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	154	1" UNDERCUT AT DOOR
155	BC	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	155	1" UNDERCUT AT DOOR
156	BD	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	156	1" UNDERCUT AT DOOR
157	BE	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	157	1" UNDERCUT AT DOOR
158	BF	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	158	1" UNDERCUT AT DOOR
159	BG	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	159	1" UNDERCUT AT DOOR
160	BH	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7/AD-6.0	8/AD-6.0	8/AD-6.0	18/AD-6.0	G-2	YES	5.0	No	N/A	No	160	1" UNDERCUT AT DOOR
161	BI	No	3'-0"	7'-0"	1 3/4"	HM	PSG	P-7	HM	PSG	P-7	N/A	7											



AGENCY APPROVAL
File No: 16-117 A#04-123900

RUHNAU
CLARKE
ARCHITECTS

CONSULTANT BRANDING

GENERAL NOTES

1. SEE SHEETS **AD-6.0 & AD-6.1** FOR HOLLOW METAL FRAME DETAILS
2. SET DOORS ADJACENT TO WALLS A MIN. OF 4" AWAY FROM WALL U.N.O.
3. ALL GLAZING IN DOORS, AND WINDOWS BELOW 8" O" A.F.F., ARE TEMPERED OR AS REQUIRED BY SECTION 2406.0 OF THE 2022 CBC
4. PROVIDE DOOR STOPS AT ALL INTERIOR DOORS. PROVIDE BACKING PLATE PER DETAIL

11
50-2.4
5. ALL EXTERIOR DOORS ARE TO SWING OUT AND OPEN TO A MIN. OF 110 DEGREES FROM ITS CLOSED POSITION WHERE POSSIBLE, U.N.O.
 - * EXCEPTION: WHERE TACTILE SIGNAGE IS LOCATED ON HINGE SIDE OF DOOR, DOORS TO HAVE A 90 DEGREE SWING LIMIT
6. ALL EXTERIOR H.M. DOORS SHALL HAVE A THERMAL RESISTANCE CORE, PER SPEC SECTION 08 11 13
7. PROVIDE AIR SEALS/WEATHER STRIPPING AT ALL EXTERIOR DOORS TO CONDITIONED SPACES.
8. ALL FLOOR MATERIAL CHANGE SHALL BE LOCATED UNDER THE CENTERLINE OF DOOR WHERE OCCURS, TYP.
9. ALL EXTERIOR DOORS SHALL BE OPERABLE FROM THE INTERIOR WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. DEAD BOLTS ARE ONLY PERMITTED WHEN OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.
10. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE MOUNTED 34"-44" A.F.F., PER CBC SECTION 11B-404.2.7
11. ALL DOORS SHALL BE LOCKABLE FROM THE INTERIOR SIDE, PER HARDWARE SPEC SECTION 08 06 71 & 08 71 01
12. PER SECTION 1010.2.9 IN THE CBC 2022, DOOR SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE ARE REQUIRED TO HAVE PANIC HARDWARE OR FIRE EXIT HARDWARE
13. PER CBC 2022 11B-404.2.5, THRESHOLDS SHALL BE 1/2" HIGH MAX.
14. THE BOTTOM 10" OF ALL DOORS EXTENDING THE FULL WIDTH SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. CBC 2022 11B-404.2.10
15. PER CBC 2022 11B-404.2.9, MAXIMUM EFFORT TO OPERATE ALL DOORS SHALL NOT EXCEED 5 LBS FOR BOTH EXTERIOR AND INTERIOR DOORS. FIRE DOORS SHALL NOT EXCEED 5 LBS.
16. REFER TO SPECIFICATION SECTION 08 71 00 FOR DOOR HARDWARE INFORMATION
17. WHERE WINDOW SHADE OCCURS AT SUSPENDED T-BAR CEILING, SEE DTL.
18. PER CBC 2022 Ch. 24 SEC. 2403.1, EACH PANE SHALL BEAR THE MANUFACTURER'S MARK DESIGNATING THE TYPE AND THICKNESS OF THE GLASS OR GLAZING MATERIAL.
19. FOR SPECIAL WINDOW SHADE ATTACHMENT, SEE DETAIL

25
AD-1.1
20. ALL EXISTING DOORS & GLATES ON THE POT SHALL BE TESTED AND ADJUSTED TO MEET CBC SECTION 11B-404.2.8 FOR CLOSING SPEED AND CBC SECTION 11B-404.2.9 FOR DOOR OPEING FORCE (5 lbs. MAX)

ABBREVIATIONS

ALUM	ALUMINUM
FF	FACTORY FINISH
HM	HOLLOW METAL
HC	HOLLOW CORE
GALV.	GALVANIZED
STL	STEEL
PSG	PAINT: SEMI-GLOSS

GLAZING NOTES

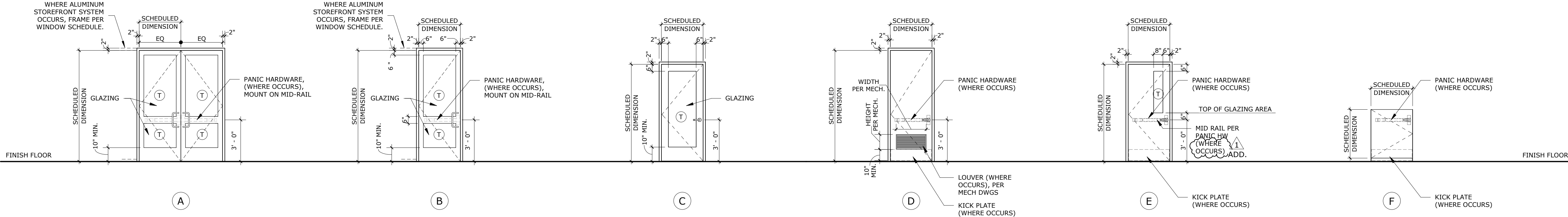
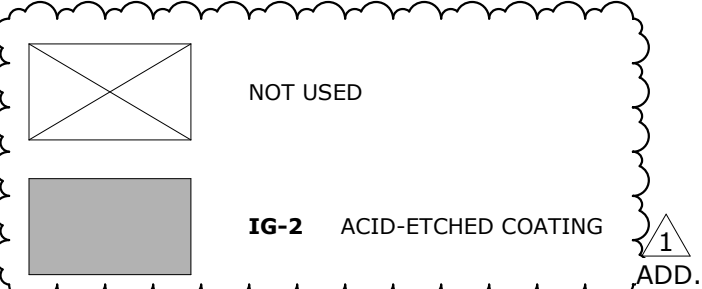
GLAZING COLOR

GLAZING

- | | | |
|----------|---------------------------|--|
| 08 80 00 | T GL-1 & GL-1T | VITRO, SOLARBAN 90 (2) CLEAR + CLEAR, SEALED INSULATED GLASS UNIT, GL-1T WHERE SAFETY RATED |
| 08 80 00 | G-2 | MONOLITHIC INTERIOR VISION GLAZING, CLEAR |
| 08 80 00 | T G-2T | MONOLITHIC SAFETY GLAZING, CLEAR |
| 08 44 35 | T FPG-1 | FIRE-PROTECTION-RATED GLAZING |

GENERAL GLAZING NOTES

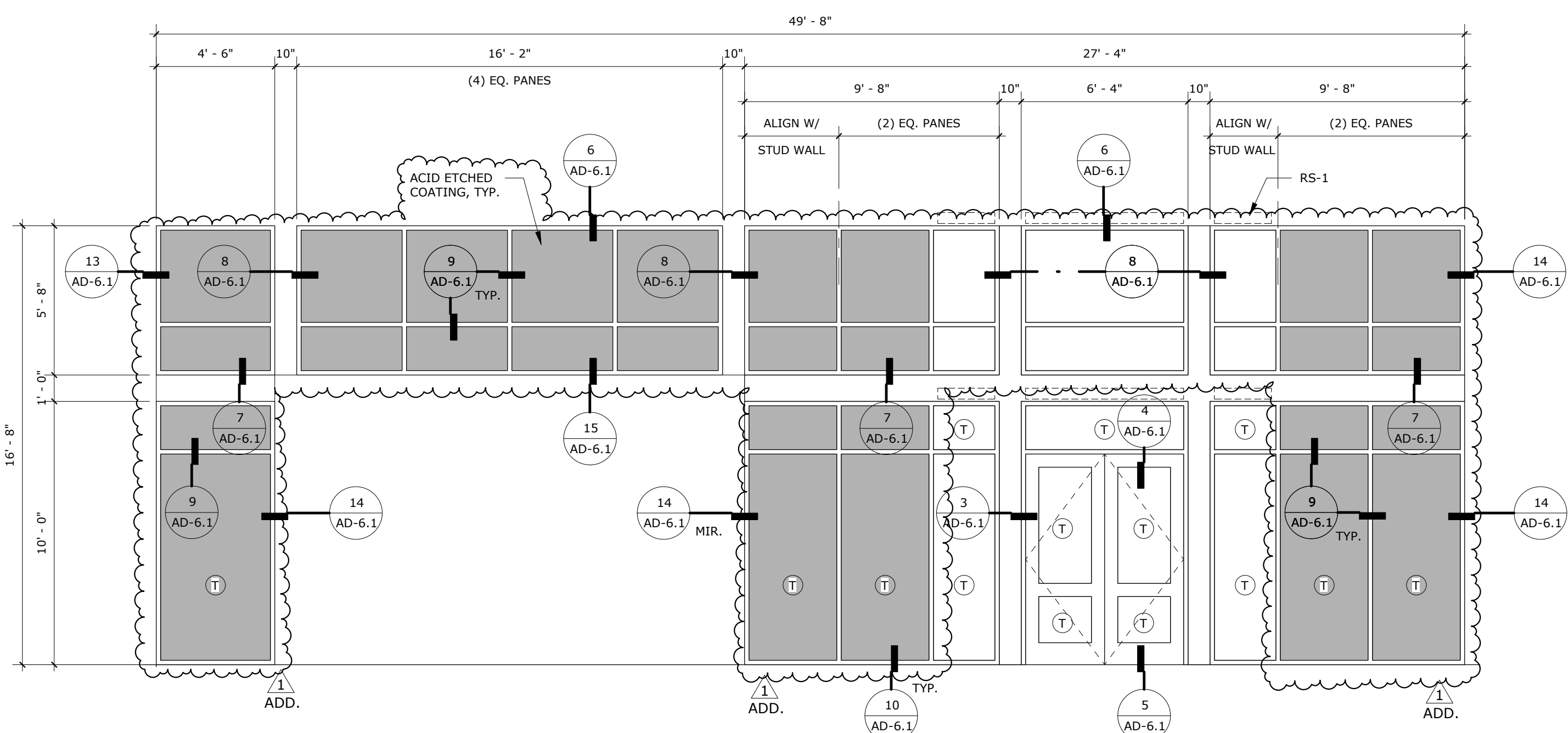
1. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO FABRICATION
2. ALL EXTERIOR GLAZED DOORS AND WINDOWS TO RECEIVE TYPE **G-1** GLAZING, U.N.O.
PPG, SOLARBAN 90 (2) CLEAR + CLEAR
3. ALL GLAZING TO BE TEMPERED (T) SHALL INCLUDE:
 - ALL GLAZING IN DOORS
 - ALL DOOR SIDELIGHTS WITHIN 24" OF DOOR FRAME
 - ALL DOOR TRANSOMS
 - ALL WINDOW GLAZING WITHIN A DISTANCE OF 36" HORIZONTALLY FROM A WALL PATH AND UP TO 60" FROM GRADE
 - ALL GLAZING WITHIN THE SWING OF A DOOR
4. ALL INTERIOR DOORS AND WINDOWS TO RECEIVE TYPE **G-2** GLAZING, U.N.O.
5. ALL GLAZING SHALL MEET THE MIN. GLAZING REQUIREMENTS LISTED IN



DOOR TYPES

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

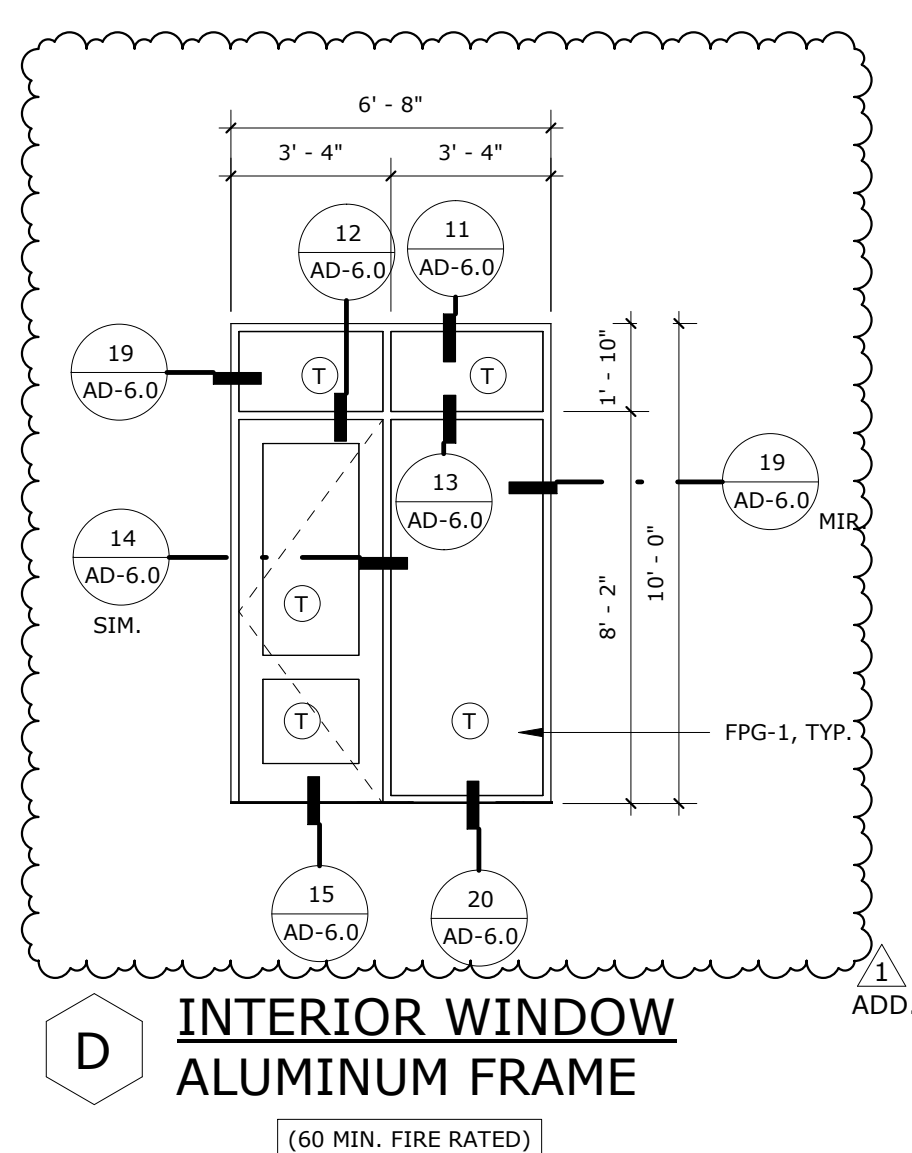
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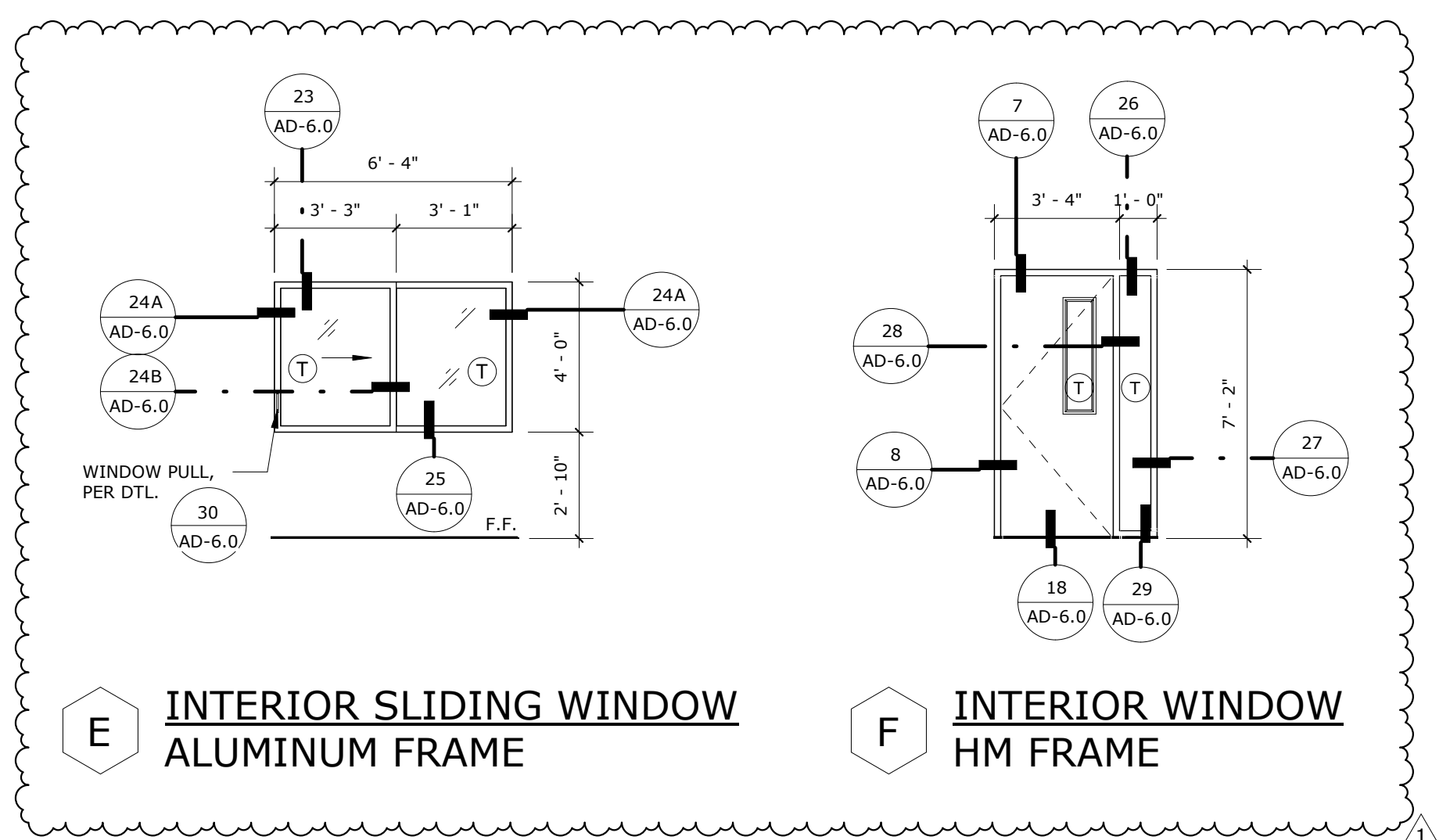
A EXT. WINDOW
ALUM. FRAME

 EXTERIOR WINDOW
ALUMINUM FRAME

 EXTERIOR WINDOW
ALUMINUM FRAME



INTERIOR WINDOW
ALUMINUM FRAME



INTERIOR SLIDING WINDOW
ALUMINUM FRAME

INTERIOR WINDOW
HM FRAME

WINDOW SCHEDULE

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

2

PROJECT No. :1-78-50
9/11/2025 11:11:38 AM

DRAWN BY: VR, SK, AT CHECKED BY: JC

DELTA # 1 DATE 9/xx/25 ☐ ADD ☐ AFO ☐ CCD ☐ RE

DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ RE

DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ RE

DELTA # _____ DATE _____ ☐ ADD ☐ AFO ☐ CCD ☐ RE

RUHNAUCLARKE.COM

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

INDIAN SPRINGS HIGH SCHOOL HEALTH

CENTER

CENTER

INDIAN SPRINGS HIGH SCHOOL

DOOR & WINDOW SCHEDULE

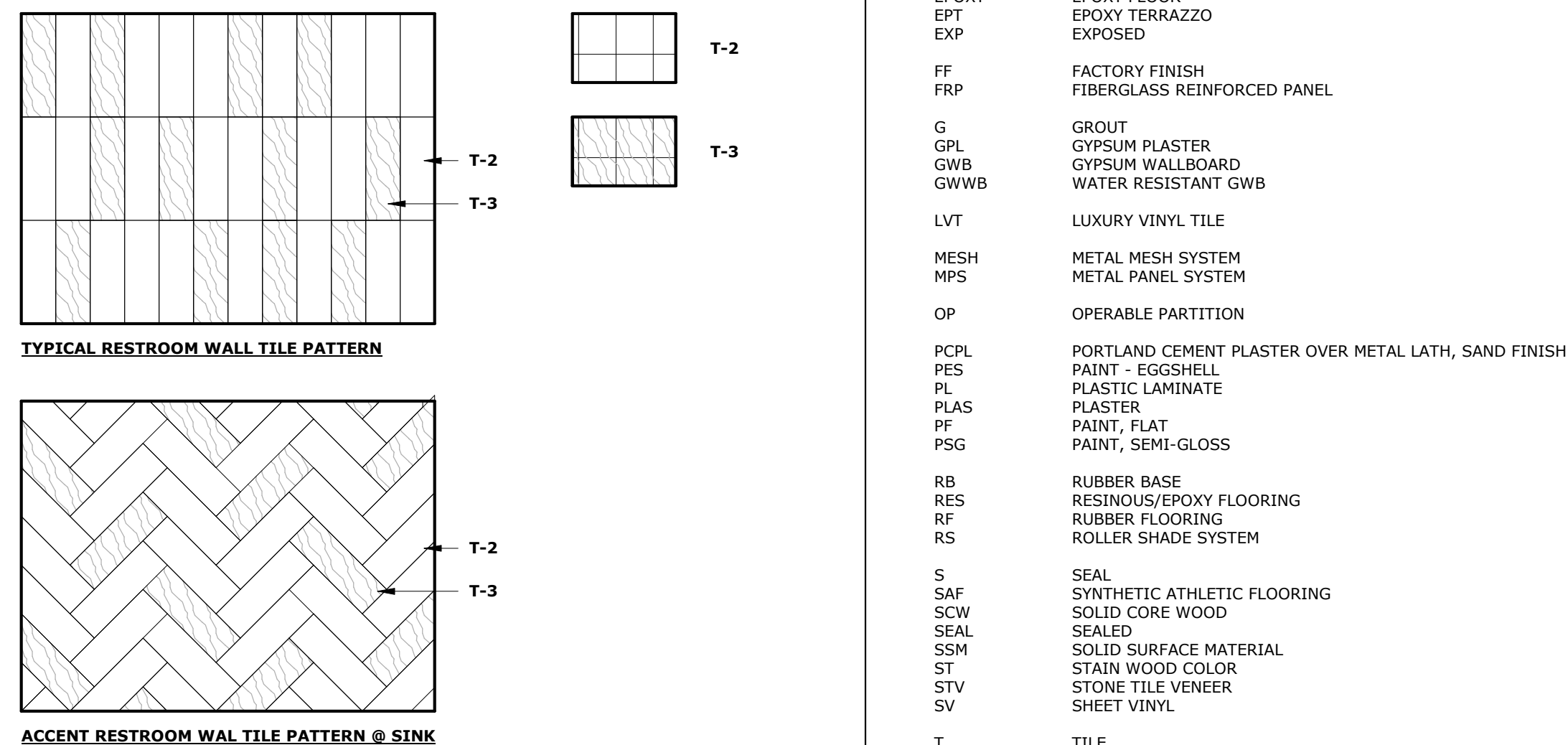
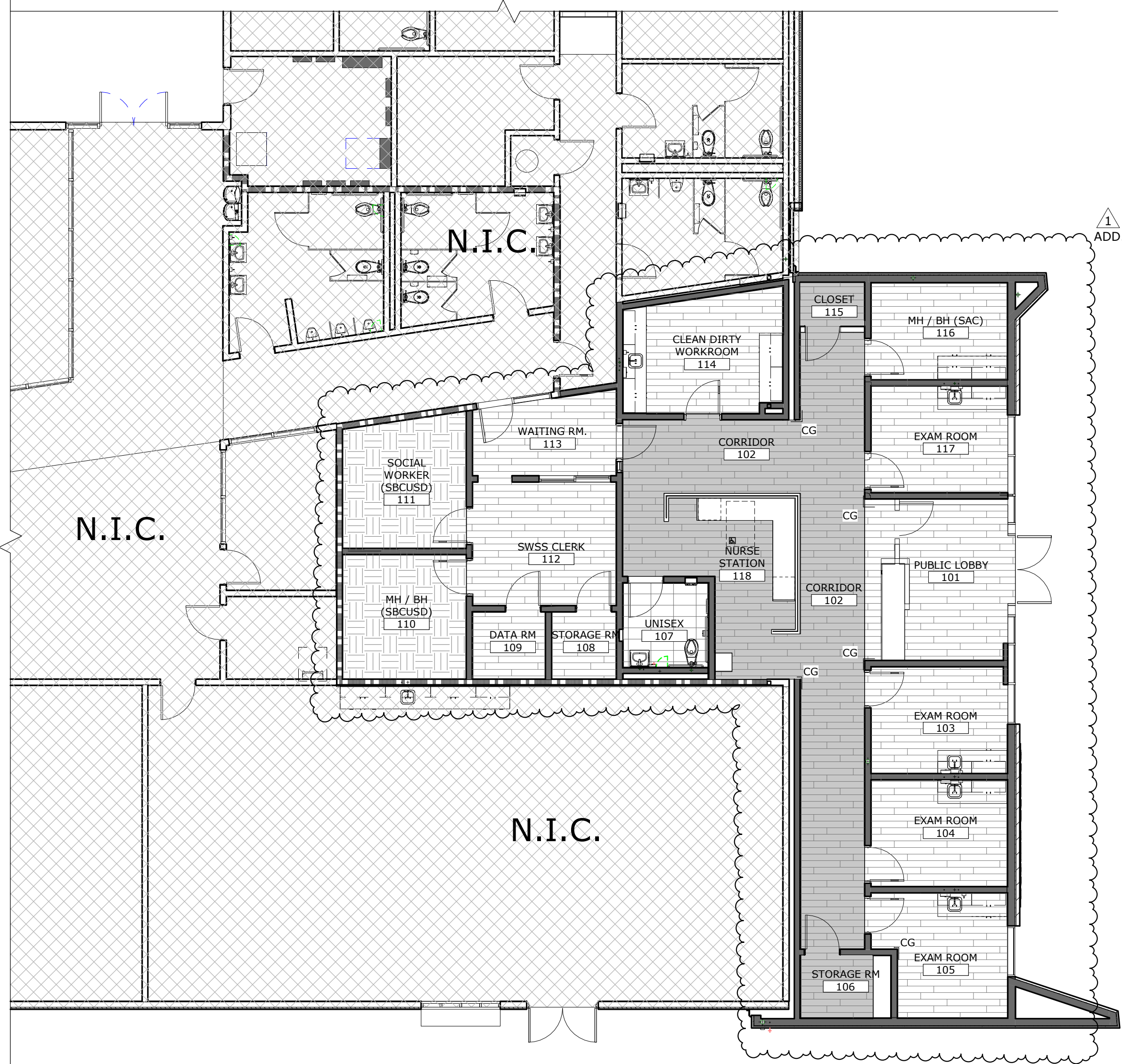
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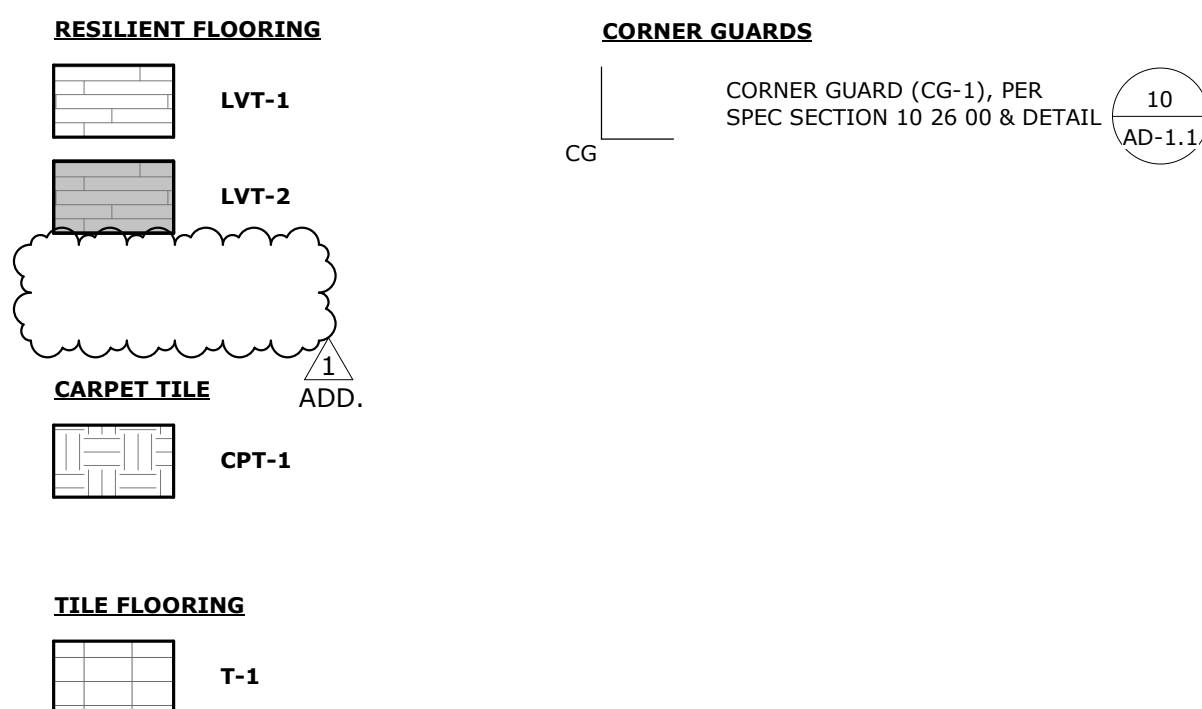
ROOM FINISH SCHEDULE																							
ROOM NO.	ROOM NAME	FLOOR		BASE		WALLS												CEILING				REMARKS	ROOM NO.
		MATERIAL	COLOR	MATERIAL	COLOR	ELEVATION 1		ELEVATION 2		ELEVATION 3		ELEVATION 4		MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR				
101	PUBLIC LOBBY	LVT	LVT-1	RB	RB-1	GWB/VWC	PSG/FF	P-1/VWC-1	GWB	PSG	P-1	GWB/VWC	PSG/FF	P-1/VWC-1	-	-	-	UOS/ACP/FC	PSG/FF/FF	P-1/ACP-1.2/FC-1		101	
102	CORRIDOR	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		102	
103	EXAM ROOM	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		103	
104	EXAM ROOM	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		104	
105	EXAM ROOM	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		105	
106	STORAGE RM	LVT	LVT-2	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		106	
107	STORAGE RM	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		107	
108	STORAGE RM	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		108	
109	DATA RM	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		109	
110	MN. BN (SECURED)	CHP	CHP-1	RB	RB-1	GWB/WVP	PSG/FF	P-1/WVP-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		110	
111	SOCIAL WORKER (SECURED)	CHP	CHP-1	RB	RB-1	GWB/WVP	PSG/FF	P-1/WVP-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		111	
112	GWSE CLERK	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		112	
113	WAITING RM	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		113	
114	CLAN DEPT WORKROOM	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		114	
115	CLOSET	LVT	LVT-2	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		115	
116	MN. BN (SAC)	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		116	
117	EXAM ROOM	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		117	
118	HOUSE STATION	LVT	LVT-1	RB	RB-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1	GWB	PSG	P-1		118	

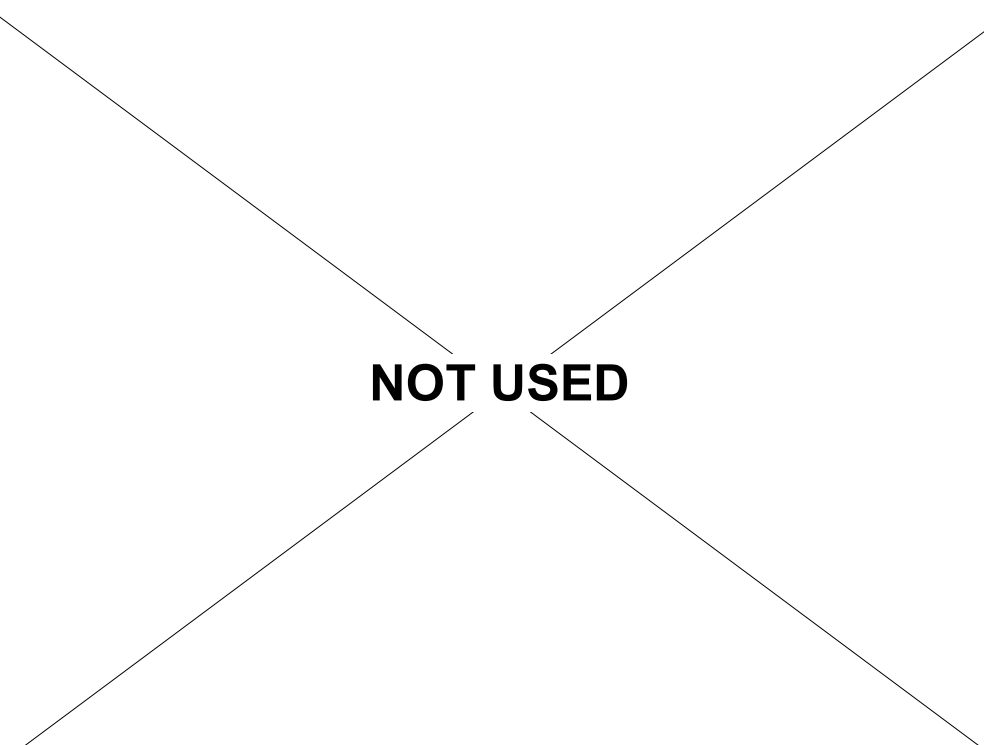
ITEM	MATERIAL	LOCATION	ITEM	MATERIAL	LOCATION
D4 05 11 - MASONRY MORTARING AND GROUTING			09 96 00 - HIGH-PERFORMANCE COATINGS		
M-1	ORCO, TO MATCH CMU-1	TYPICAL	P-7	TNEMEC , CUSTOM COLOR TO MATCH P-3	INT HM DOORS/FRAMES @EXAM ROOMS
D4 25 13 - MASONRY VENEER			P-8	TNEMEC , CUSTOM COLOR TO MATCH P-5	INT HM DOORS/FRAMES @OFFICES/CONFERENCE ROOM
CMU-1	ORCO, MODULAR NATURAL GRAY, MEDIUM WEIGHT	TYPICAL	P-9	TNEMEC , CUSTOM COLOR TO MATCH P-1	INT HM DOOR/FRAME @WORKROOM/STORAGE
05 50 00 - METAL FABRICATIONS			10 11 00 - VISUAL DISPLAY UNITS		
NF-1	NICHOLS, #2161211M1, PERFORATED METAL, 'ROUND' CARBON STEEL, HRPO, 11 Gauge (1.196" Thick), 1" ROUND ON 1-1/4" STAGGERED CENTERS, 58% OPEN AREA W/ U-EDGING AT PERIMETER, SIZE PER PLANS	ACCENT @ ENTRY	TWP-1	CARNegie, KOREI, METEOR, #6427-200	TYPICAL
MC-1	FINISH CARBON W/		10 14 23 - SIGNAGE		
FC-1	CUSTOM MCF PANELS, FINISH: PL-2, ARBORITE, ESSENTIAL ARTISAN WALNUT W2011 AW	SOFFITS	SIGN-1	CUSTOM COLOR TO MATCH P-1	TYPICAL @ GRAPHICS/ SYMBOLS
D6 41 00 - ARCHITECTURAL WOOD CASEWORK			SIGN-2	CUSTOM COLOR TO MATCH P-6	TYPICAL @ BACKGROUND
PL-1	FRONTIE, 'NIMBUS WHITE' SW888, HEX FINISH	HALF WALL @NURSE STATION	CG-1	KOROSEAL, KOROGUARD CORNER GUARD #GS10, STAINLESS STEEL TYPE 304 W/ #4 SATIN FINISH, ADHESIVE MOUNTED (NO TAPE OR SCREWS), 1" LEG	WHERE NOTED IN PLANS
PL-2	ARBORITE, ESSENTIAL ARTISAN WALNUT W2011 AW	ACCENT @RECEPTION COUNTERS/ SOFFITS	SGM-1	CORIAN SOLID SURFACE, 'WITCH HAZEL'	TYPICAL
RP-1	3-FORM, VARIA, RIDGE 'SABLE', 1/2"THICK	ACCENT @NURSE STATION	RS-1	DRAFTER, INFINITY 2, #IN2-QG1 'BARLEY', 5% OPENNESS, MOTORIZED	
07 42 13 - METAL WALL PANELS			12 36 00 - COUNTERTOPS		
HWP-1	METAL SALES, STRUCTURAL STANDING SEAM, MAGNA-LOC, 22GA, 16" PANEL W/STRIATIONS 'METALLIC SILVER'	EXTERIOR	SCM-1	CORIAN SOLID SURFACE, 'WITCH HAZEL'	TYPICAL/ RECEPTION COUNTERS
07 42 13.23 - METAL COMPOSITE PANELS			32 13 13 - SITE CONCRETE		
MCP-1	CITADEL, ENVELORE 2000 DEEP REVEAL (DRV), 'REGAL RED'	ACCENT @ EXTERIOR	CONC-1	NATURAL CONCRETE TO MATCH EXISTING	HARDSCAPE
07 42 00 - SHEET METAL FLASHING AND TRIM			32 31 19 - DECORATIVE METAL FENCES AND GATES		
SMF-1	HICKMAN, PERMASNAP & PERMASNAP PLUS COPING, FINISH TBD	TYPICAL	ORC-1	ARTESIAN MORTAGE #1 MORTAR, BLACK TO MATCH EXISTING	EXTERIOR
08 43 13 - ALUMINUM-FRAMED STOREFRONTS			SP-1	32 33 00 - SITE FURNISHINGS	TYPICAL
ALUM-1	ARCADIA, 'CLEAR ANODIZED' #AC-2	SWISS CLERK	SP-2	VESTRÉ, BLUC SEAT W/ BACKREST, POWDERCOATED W/ RAL COLOR TBD	
08 56 23 - SERVICE AND TELLER WINDOW UNITS					
ALUM-2	ARCADIA, 'CLEAR ANODIZED' #AC-2	EXAM ROOMS/ OFFICES			
08 80 00 - GLAZING (PLASTIC FILMS)					
GF-1	3M, FASARA GLASS FINISHES, MAT CRYSTAL-1 SH2MACR-1				
09 24 00 - CEMENT PLASTERING					
CP-1	PARK USA, LA HABRA, CUSTOM PLASTER FINISH COAT TO MATCH 'GRAY WHITE' #301JL (61), FOG COAT TO BE PAINTED TO MATCH DUINN EDWARDS, COLOR TBD	TYPICAL			
09 30 00 - TILING					
T-1	DALTILE, VOLUME 1.0 GLAZED PORCELAIN, 'ELECTRIC MOSS', 12"x24"	RESTROOM FLOORING			
T-2	DALTILE, ASTHETIC, 'FLAT GLOSSY' AS21, 12"x24", GLOSSY FINISH	RESTROOM WALL TILE			
T-3	DALTILE, ASTHETIC, 'FREQUENCY' AS22, 12"x36", SATIN FINISH	RESTROOM WALL TILE			
T-4	TILEBAR, KIMBRIDGE, 'MAPLE RIBBON' MATTE, 24"x48"	ACCENT WALL TILE @NURSE STATION			
09 30 00 - TILING (ACCESSORY)					
TB-1	SCHLUTER, DILEX-AHK #AHK-1S-80-ACG, 'POLISHED CHROME ANODIZED ALUMINUM' #ACG, 5/16"H, INTEGRATED RIGID PVC TRAPEZOID PROFILE	RESTROOM BASE			
09 30 00 - TILING (GROUT)					
G-1	CUSTOM BUILDING PRODUCTS, #545 'BLEACHED WOOD'	WALL TILE @RESTROOMS			
G-2	CUSTOM BUILDING PRODUCTS, #185 'NEW TAUPÉ'	FLOOR TILE @RESTROOMS			
G-3	CUSTOM BUILDING PRODUCTS, #380 'HAYSTACK'	WALL TILE @NURSE STATION			
09 51 00 - ACOUSTICAL CEILINGS					
ACT-1	ARMSTRONG, ULTIMA, SQUARE LAY-IN #1910-WH, WHITE, 24"x24"x3/4" W/ 15/16" PRELUDE SUSPENSION SYSTEM, NRC: 0.75	TYPICAL @ ENCLOSED ROOMS			
09 65 00 - RESILIENT FLOORING					
LVT-1	SHAW CONTRACT, UNITE II COLLECTION, INLET II 4372V, 'SPINDLE' #72140, 9"x48", 5MM THICK, INSTALLED IN ASHLAR PATTERN	TYPICAL			
LVT-2	SHAW CONTRACT, UNITE II COLLECTION, INLET II 4372V, 'VALLEY' #72103, 9"x48", 5MM THICK, INSTALLED IN ASHLAR PATTERN	ACCENT			
09 65 00 - RESILIENT FLOORING (RUBBER BASE)					
RB-1	FLEXCO WALL BASE, 'NICKEL' #090 4"H, JOHNSONITE	TYPICAL			
09 68 13 - TILE CARPETING					
OPT-1	SHAW CONTRACT, COLLECTIVE COLLECTION, IN TUNE TILE #5T496, 'INCLUDE COLOR' #50678, 9"x36", INSTALLED IN HERRINGBONE PATTERN	TYPICAL @OFFICES/ CONFERENCE ROOMS			
09 72 00 - WALL COVERINGS					
WVC-1	KOROSEAL, DIGITAL SURFACES, CANVAS #DS0108, CUSTOM GRAPHICS TO BE PROVIDED BY ARCHITECT	PUBLIC LOBBY/ WAITING RM			
09 84 30 - SOUND-ABSORBING WALL AND CEILING UNITS					
ACP-1	ARKUTURA, SOUNDSTAR, SOFT SOUND ESSENTIALS 'SAND' w/ FRAME POWDER COAT COLOR: 'OAT', 5"x5'-9 5/16", 12" DEPTH MODULE	ACCENT @ PUBLIC LOBBY/ WAITING RM			
ACP-2	ARKUTURA, SOUNDSTAR, SOFT SOUND ELEMENTALS, COLOR: 'SIENNA'w/ FRAME POWDER COAT COLOR: 'TO MATCH SIENNA', 5"x5'-9 5/16", 12" DEPTH MODULE	ACCENT @PUBLIC LOBBY/ WAITING RM			
AWP-1	KIREL, ECHOLINE, STUCCO PANELS, ETCHED ANODIZED PANELS, COLOR: 'PEBBLE' #022, 46"x108"x.47" THICK	ACCENT @OFFICES			
09 91 23 - INTERIOR PAINTING					
P-1	DUINN EDWARDS, DE6365 'COLD MORNING'	TYPICAL			
P-2	DUINN EDWARDS, DE6090 'WESTERN RED'	ACCENT @SOFFIT/ GRAPHICS			
P-3	DUINN EDWARDS, DET486 'WILDFLOWER HONEY'	ACCENT @AROUND EXAM ROOM DOORS/ GRAPHICS			
P-4	DUINN EDWARDS, DEC676 'RIVERBED'	ACCENT @AROUND OFFICE/CONFERENCE ROOM DOORS/ GRAPHICS			
P-5	DUINN EDWARDS, DE6213 'TINE GRAIN'	ACCENT			
P-6	DUINN EDWARDS, DE6215 'WOODEN PEG'	ACCENT			

COLORS, MATERIALS & FINISHES LEGEND

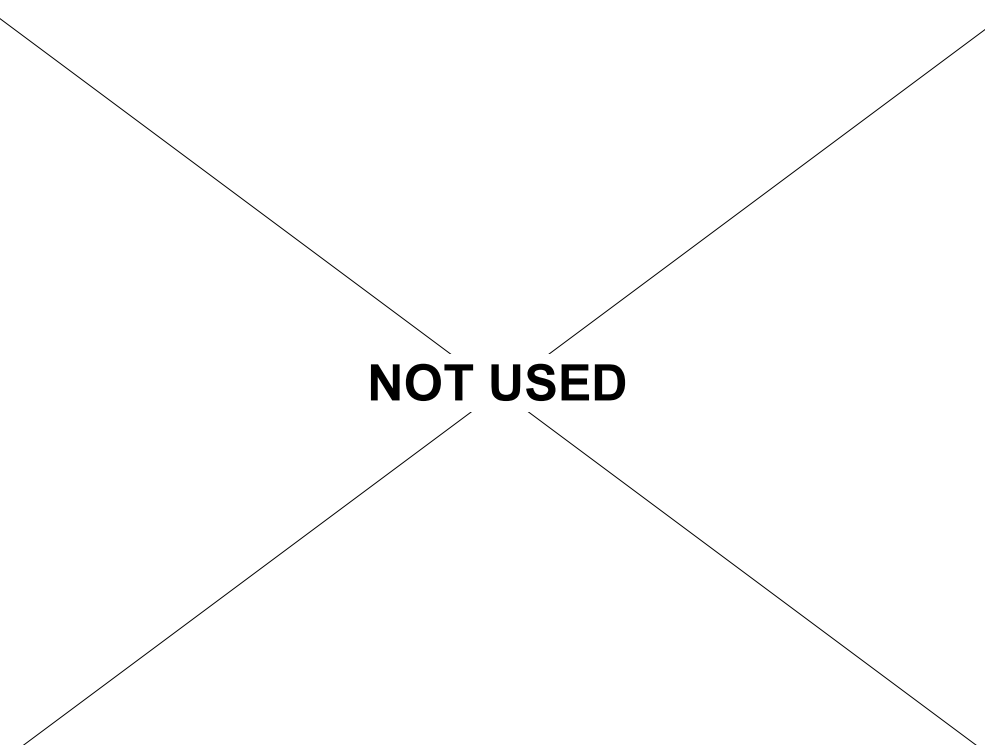


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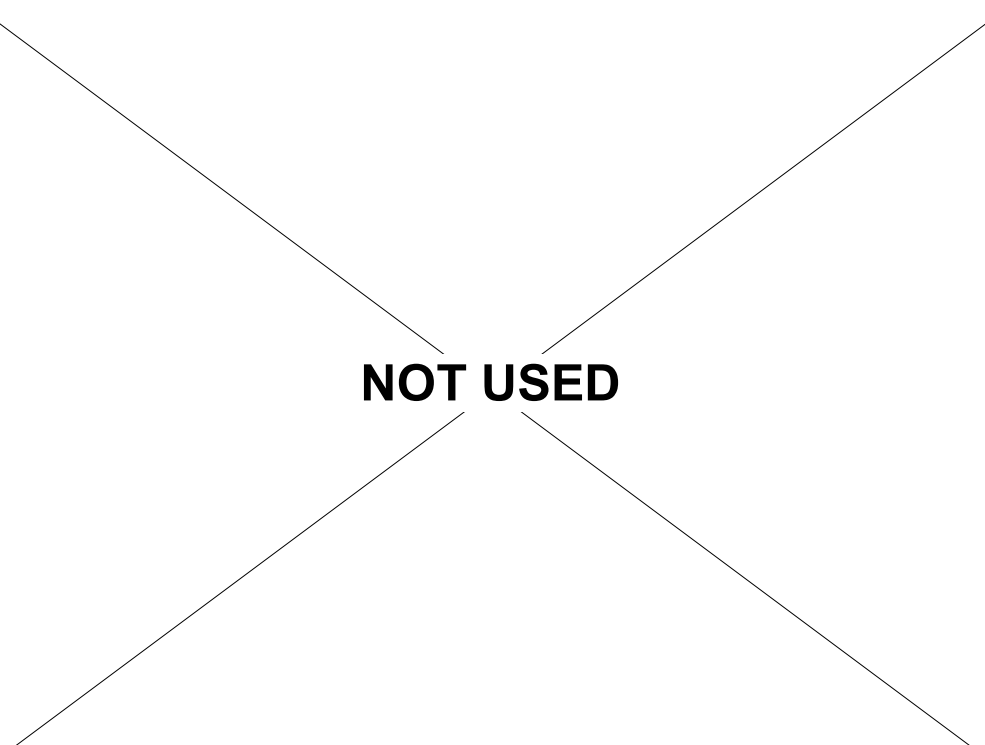
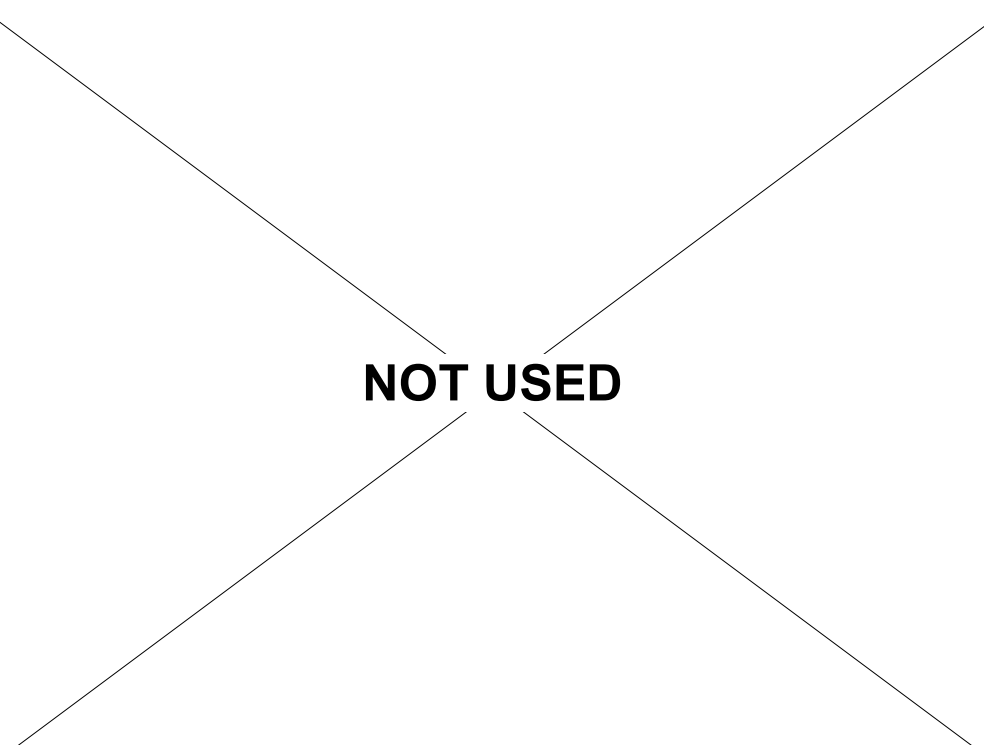
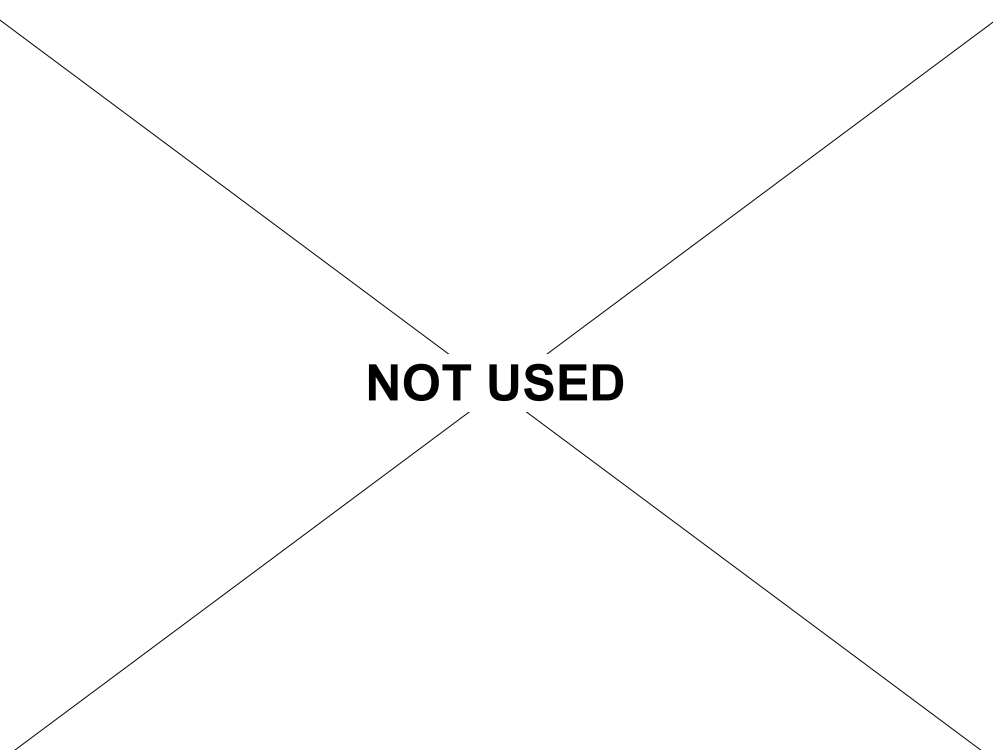




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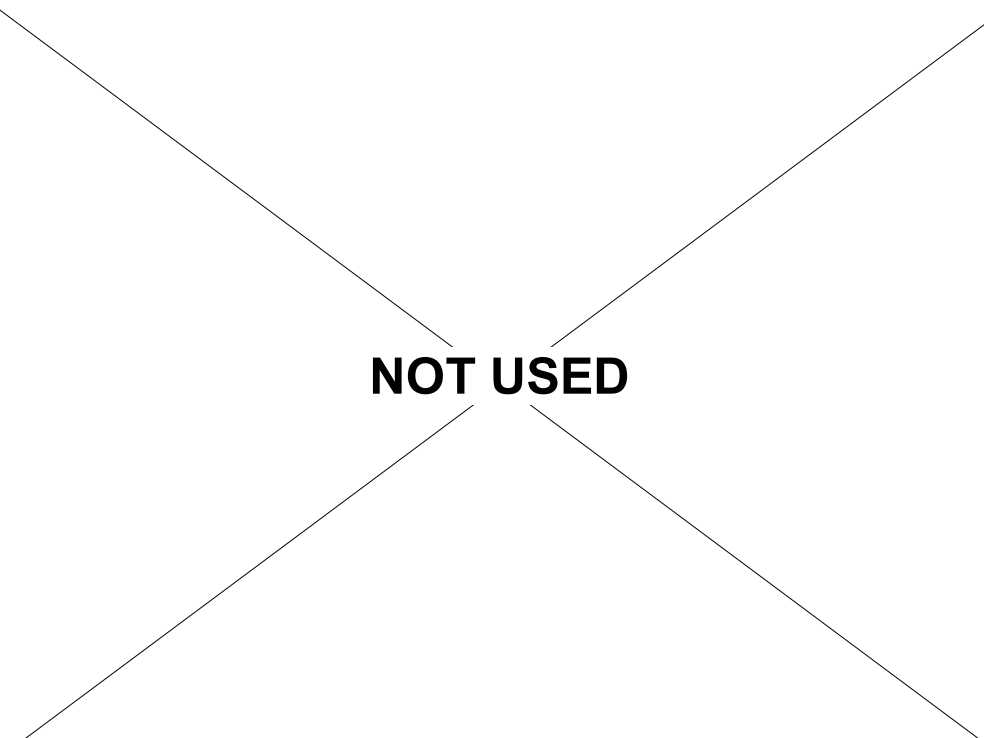
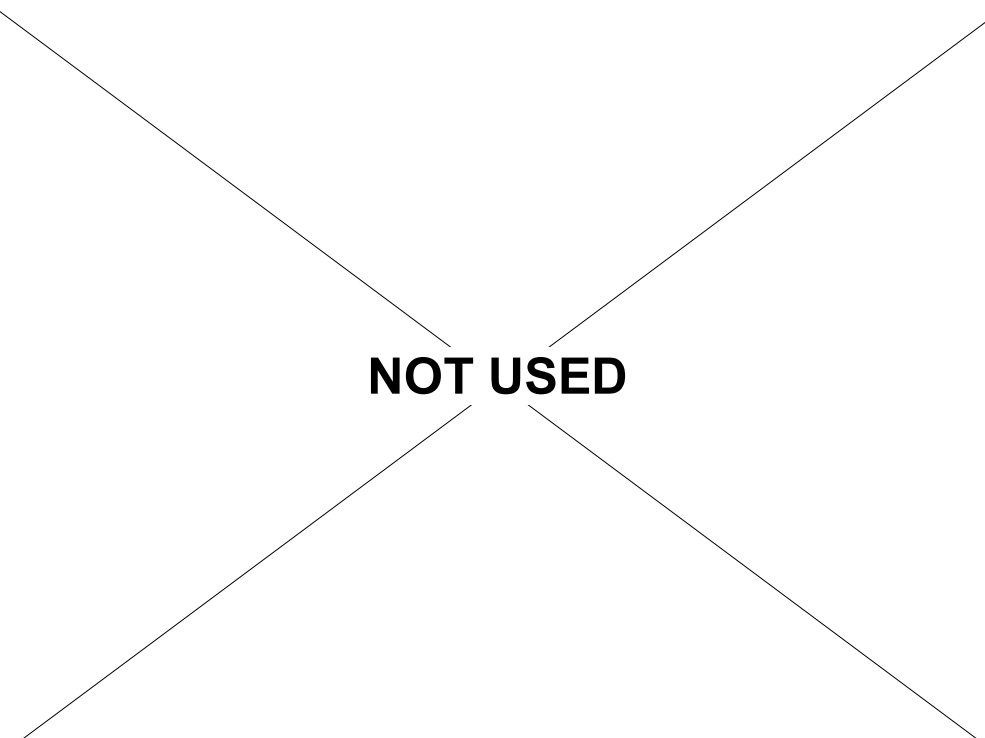
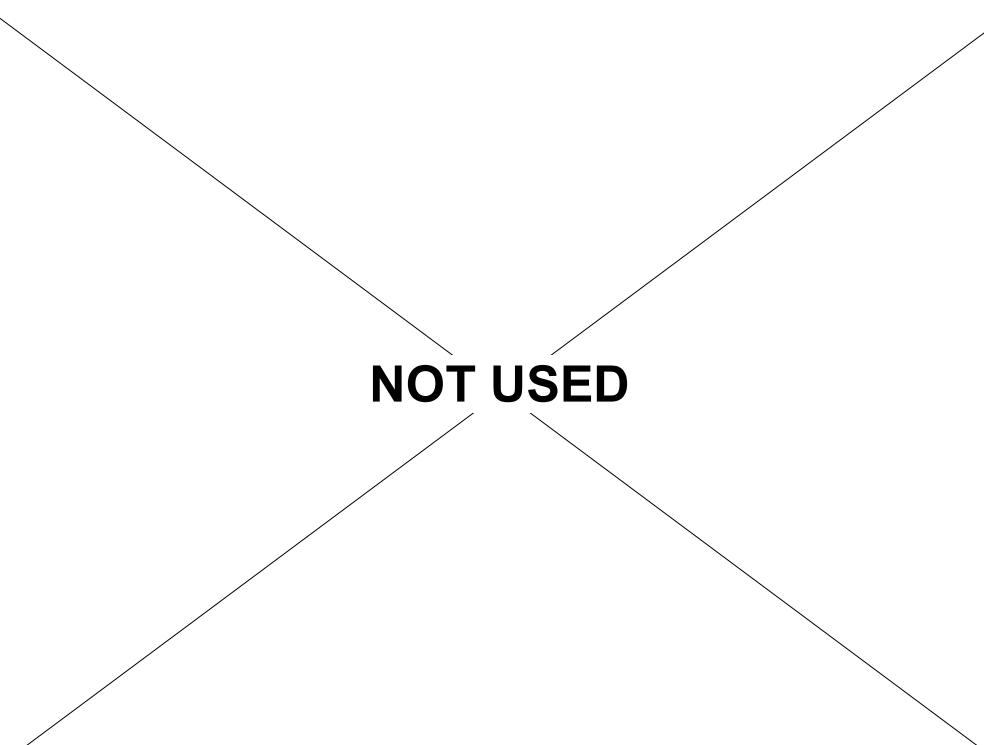
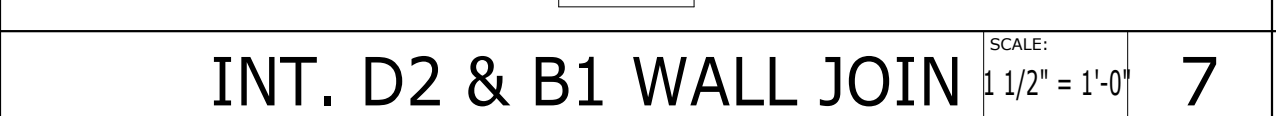
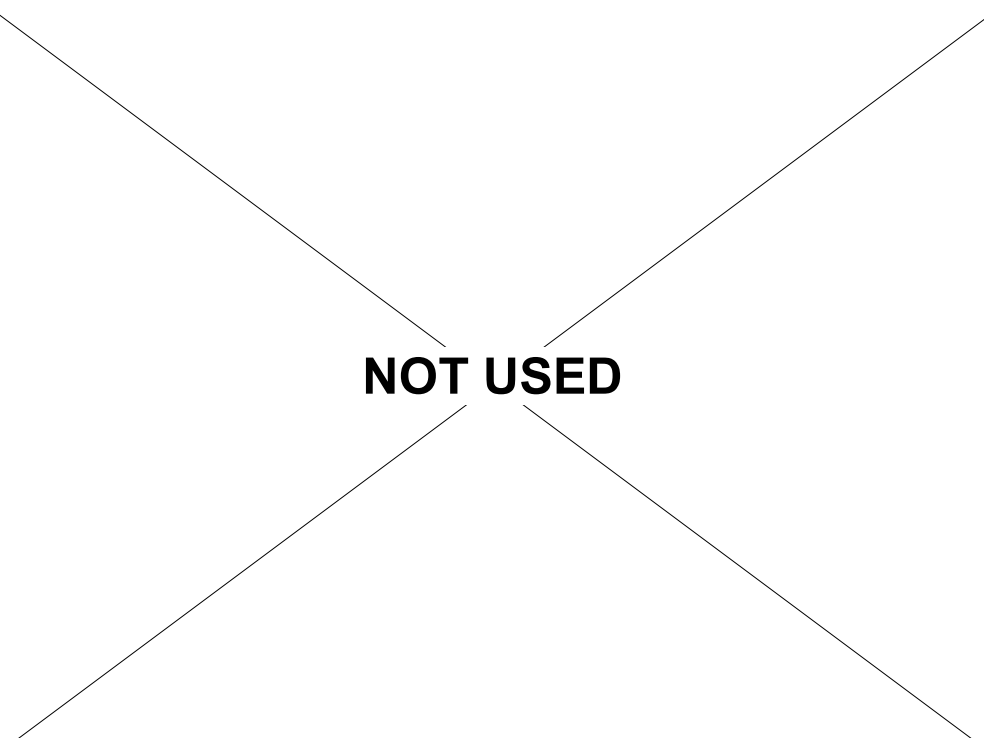
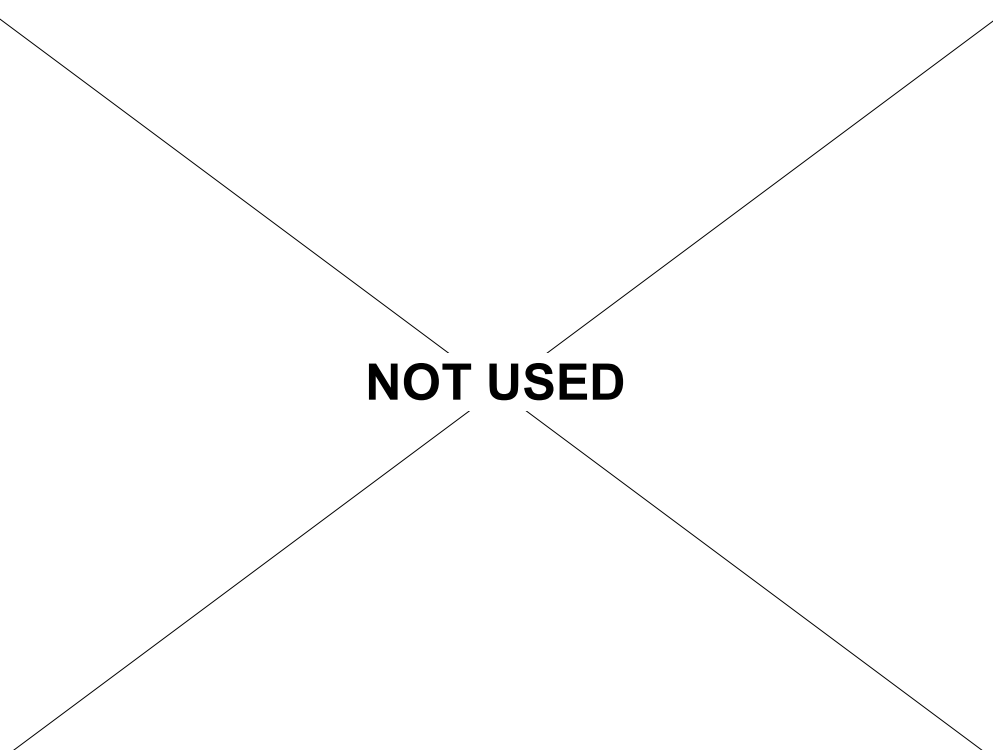


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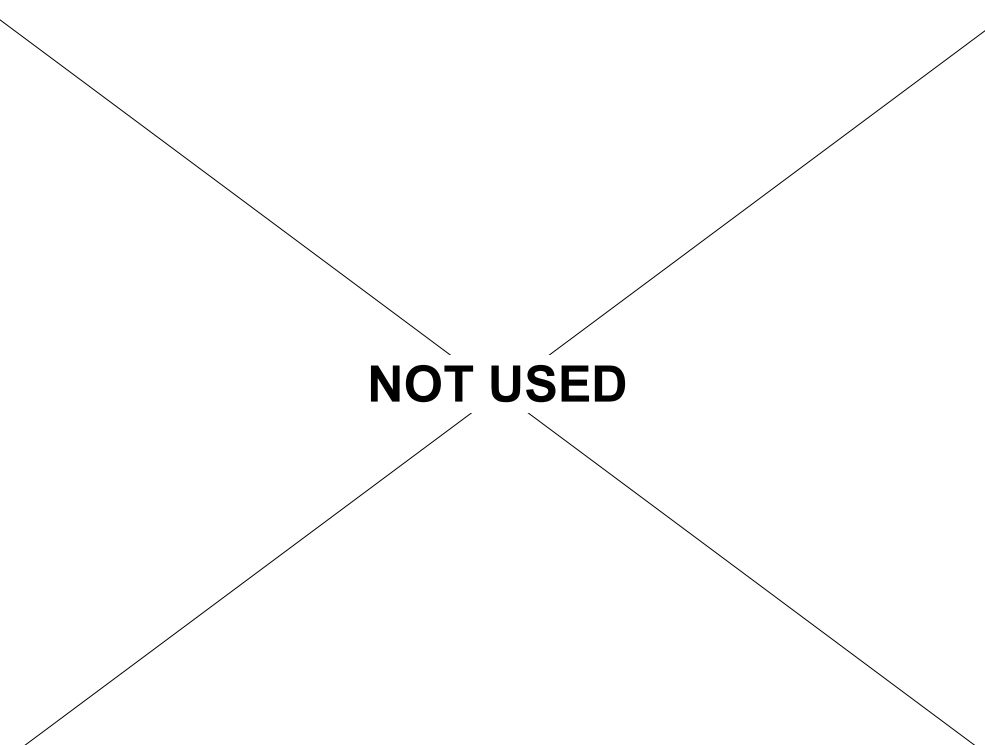
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RUHNAU
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ARCHITECTS

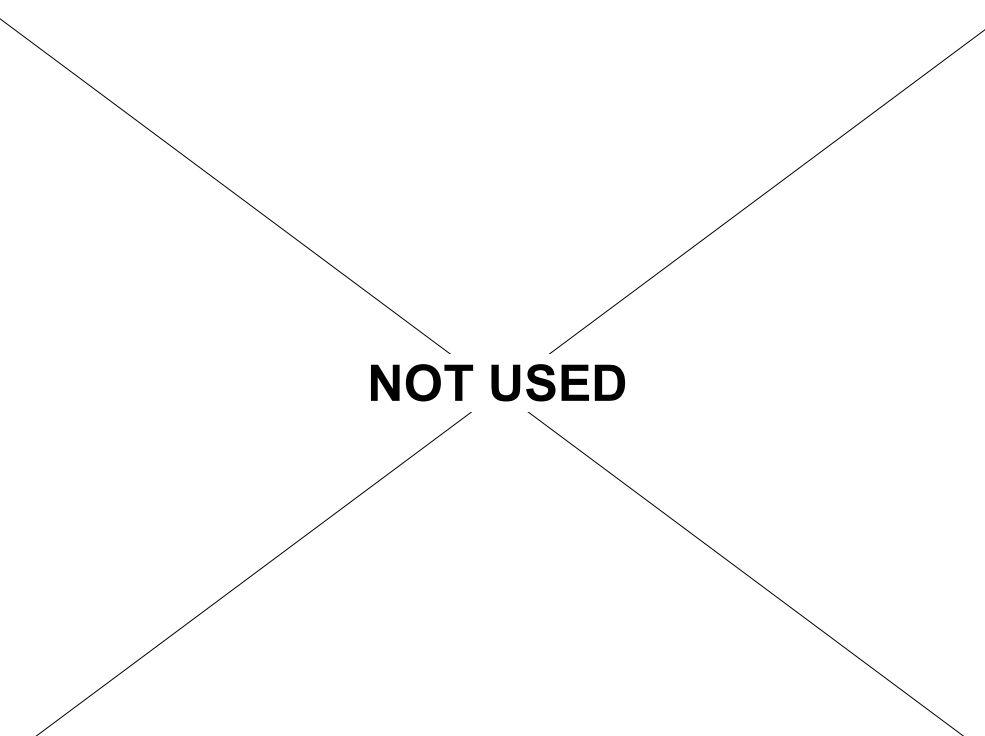
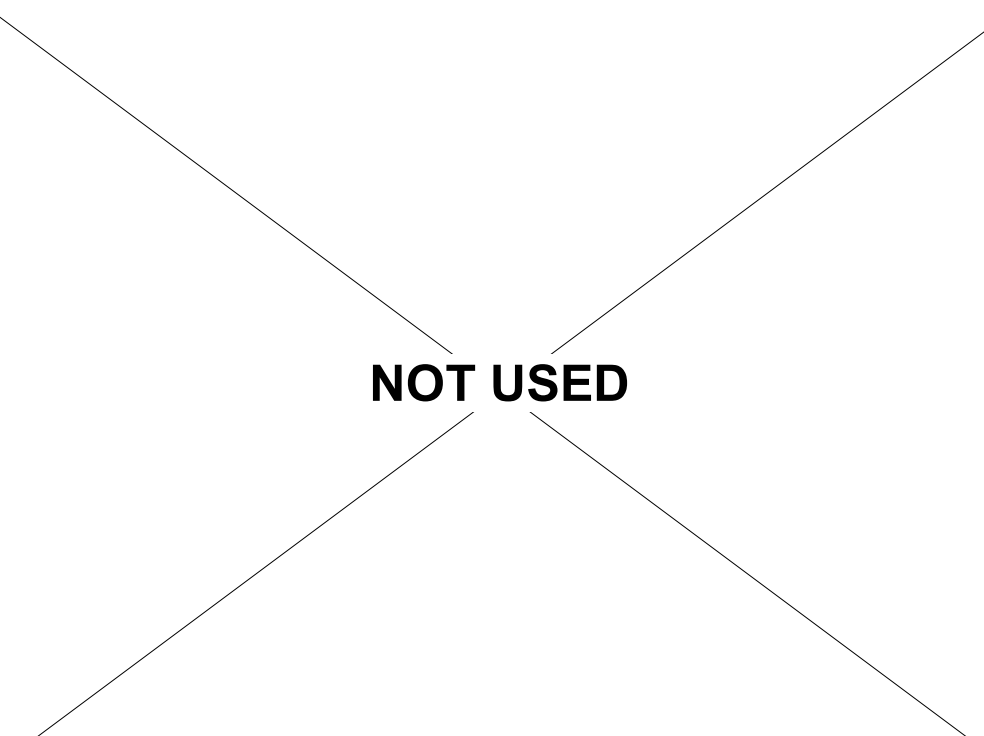
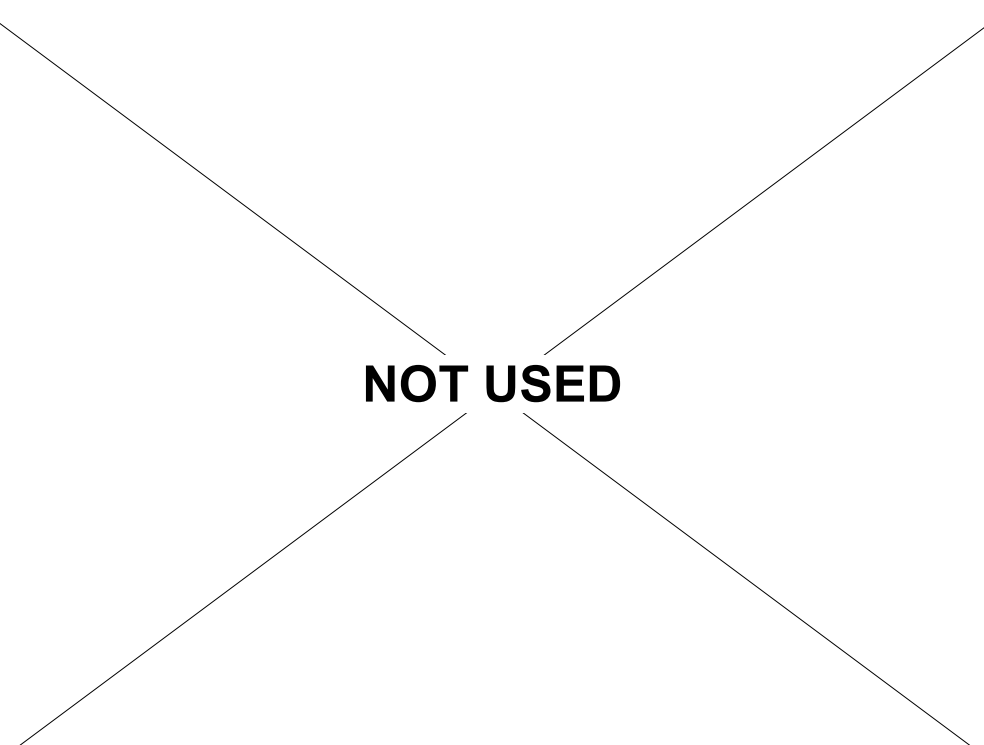
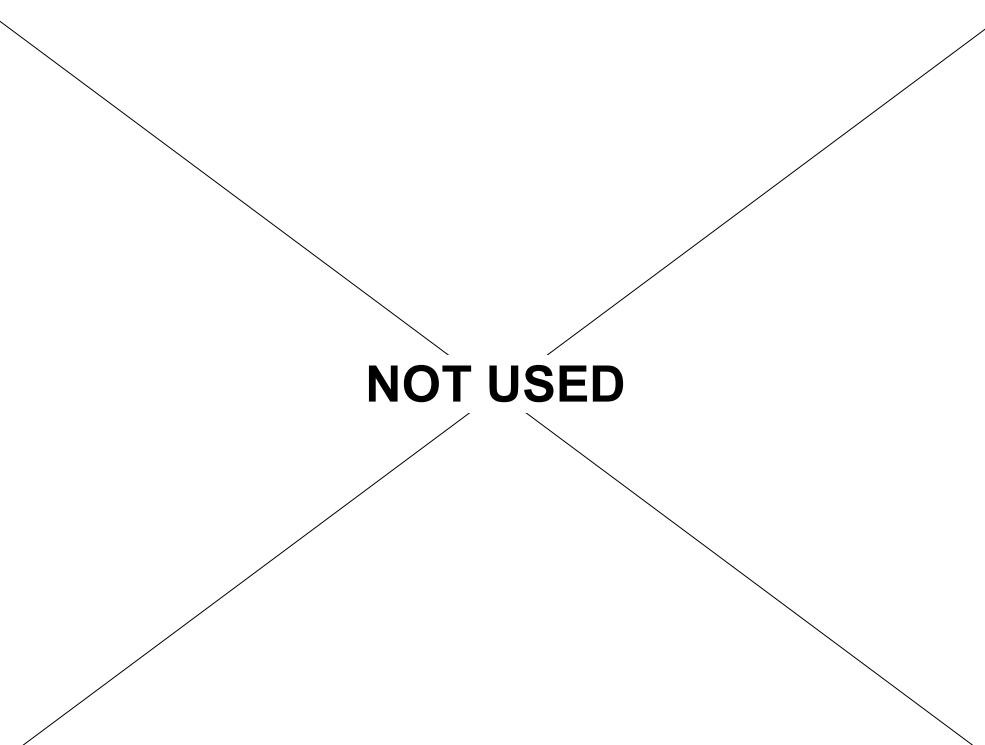
CONSULTANT BRANDING

A large square frame with a diagonal cross (X) inside. The text "NOT USED" is centered within the square.A large square frame with a diagonal cross (X) inside. The text "NOT USED" is centered within the square.

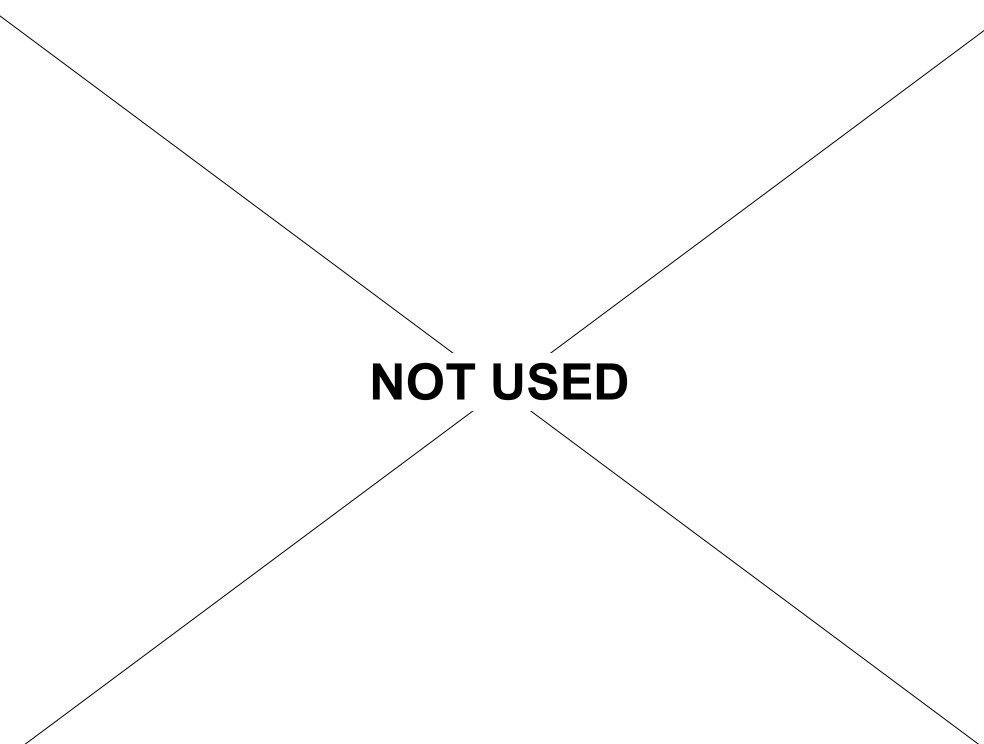
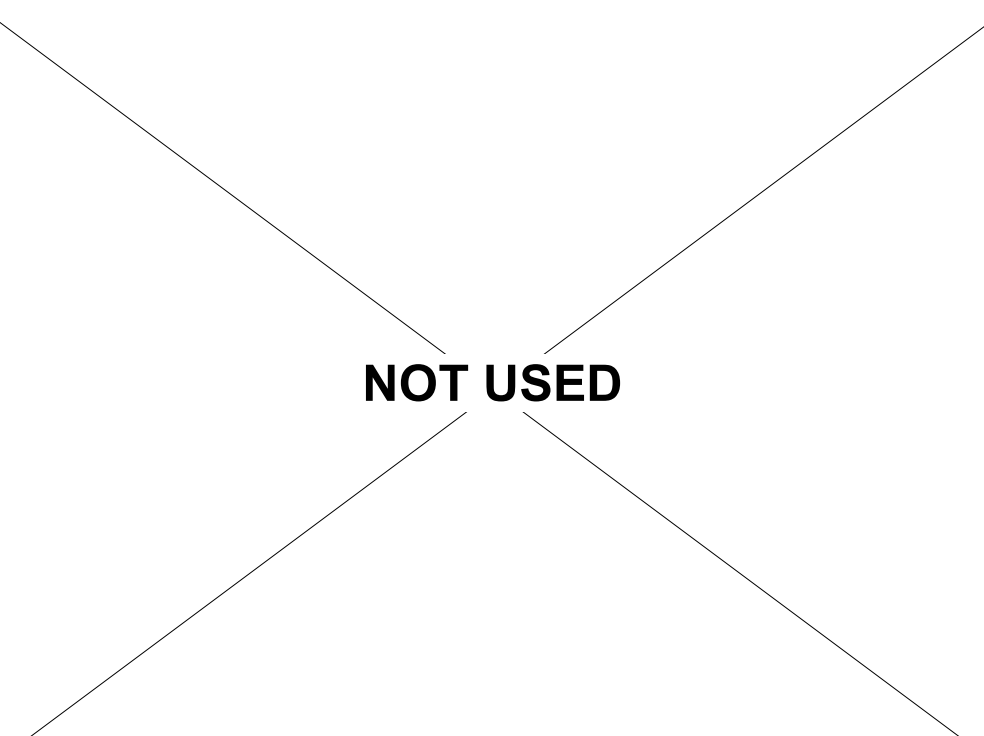
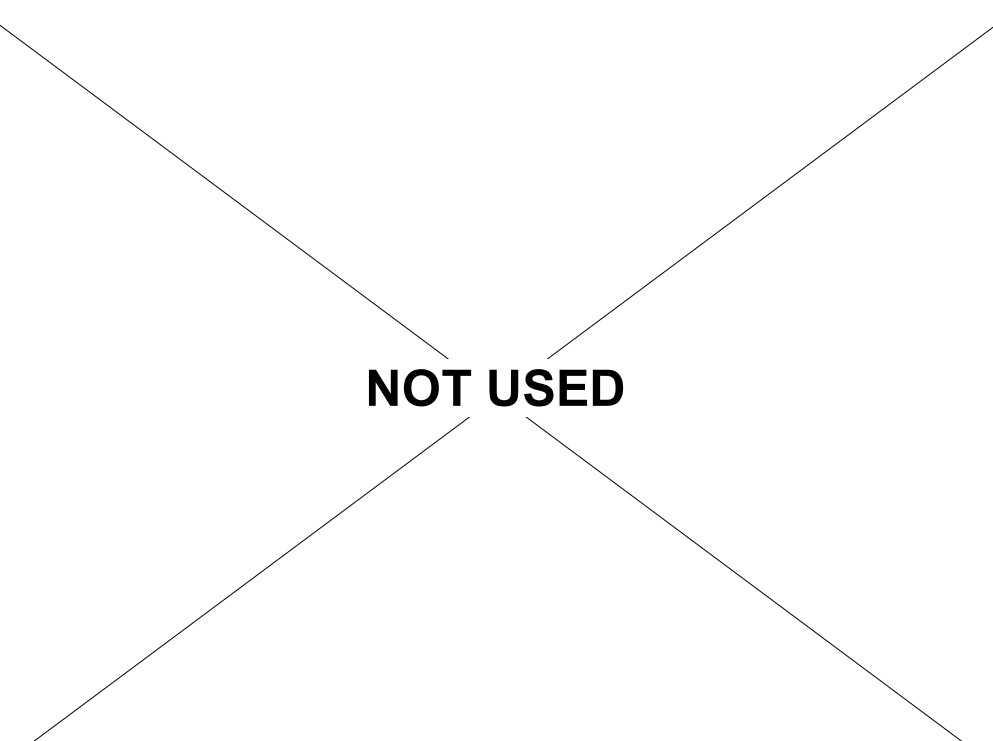
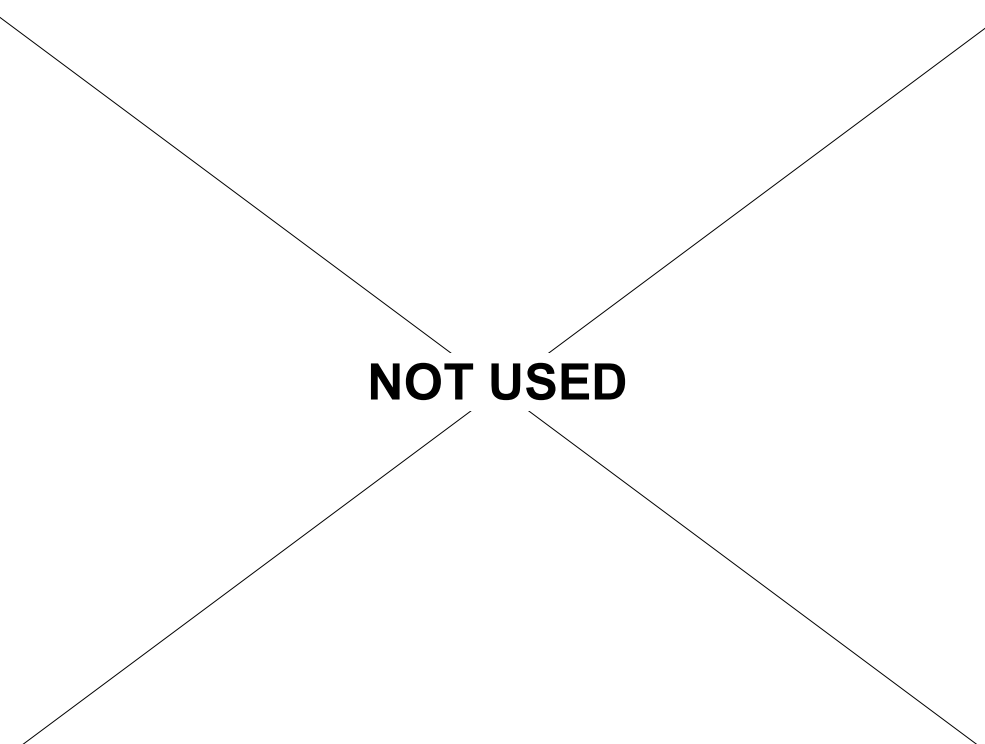
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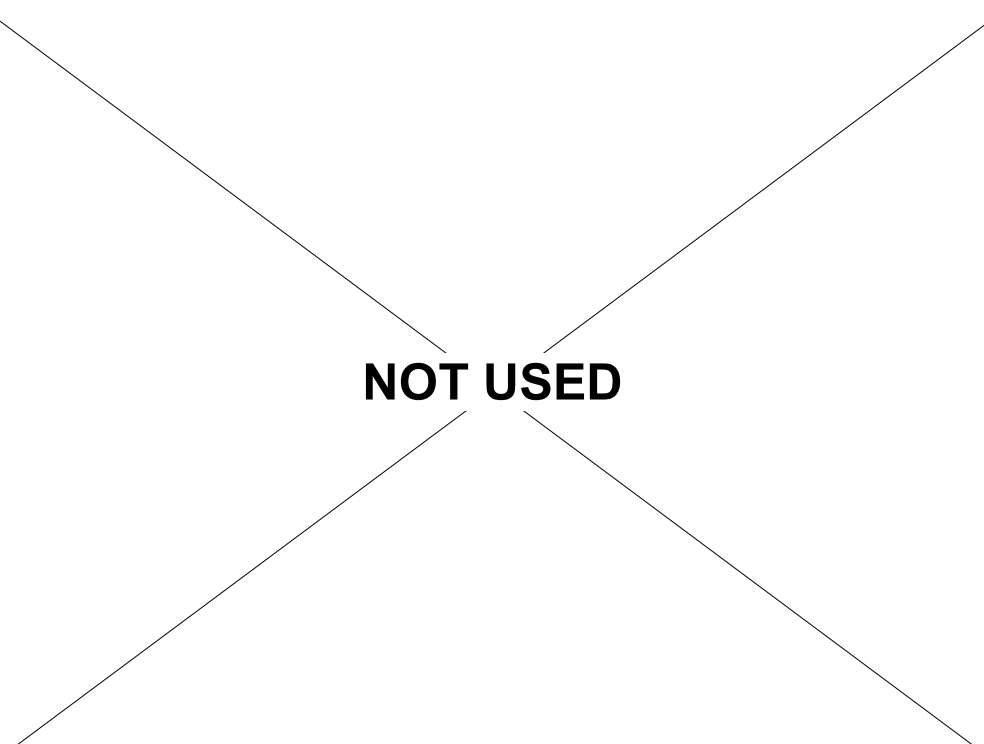
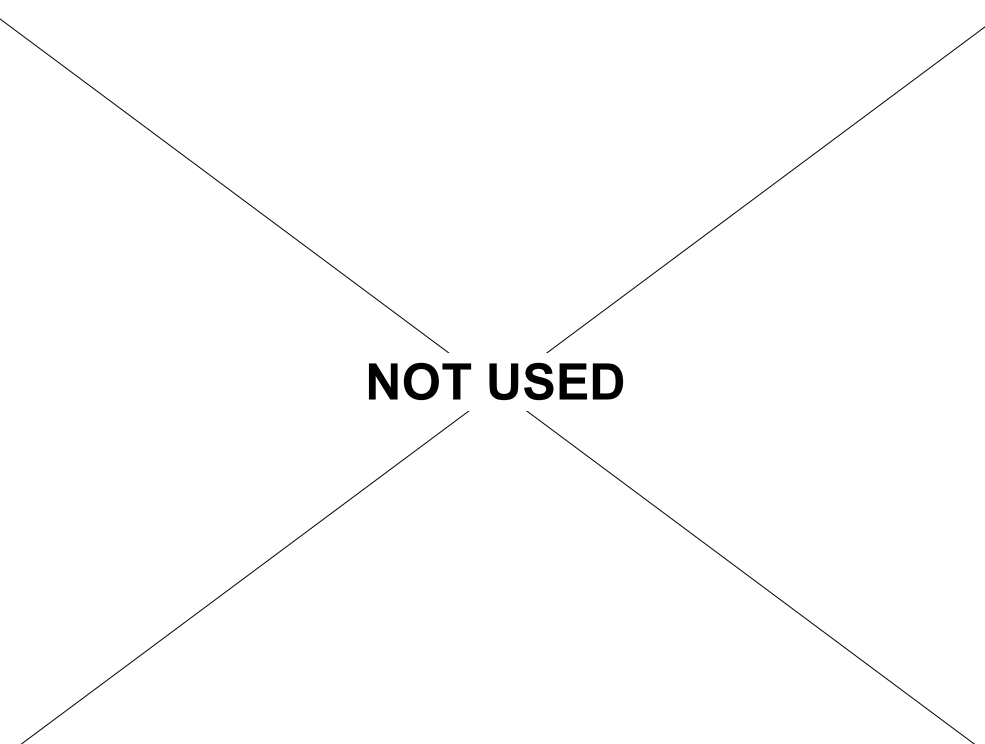
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NOT USED



WALL DETAILS | AD-2 2

DRAWN BY: VR, SK, AT

DELTA # 1 DATE 9/xx/25

DELTA # _____ DATE _____

DELTA # _____ DATE _____

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CHECKED BY: JC

☐ ADD ☐ AFO ☐ CCD ☐ REV

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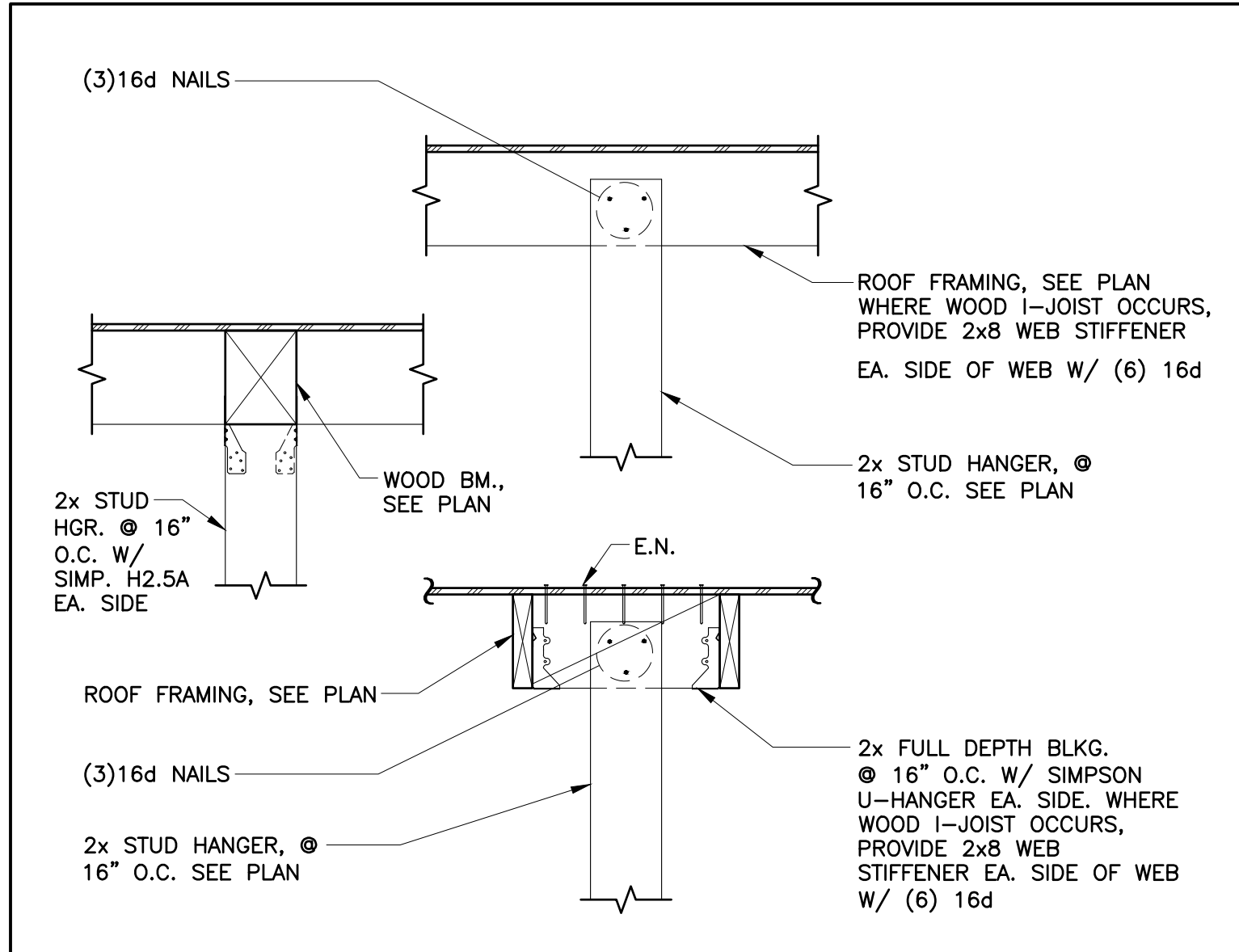
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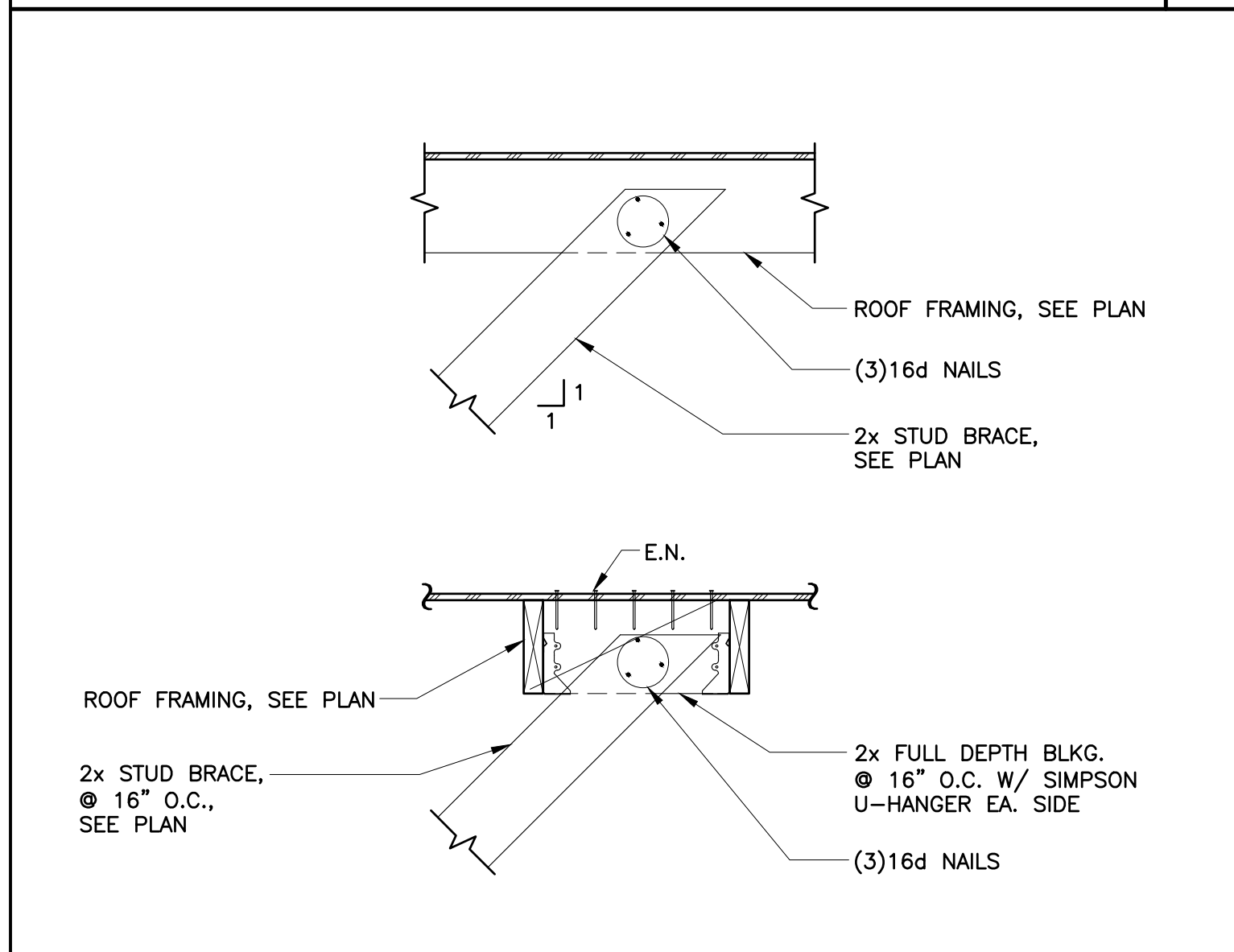
INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER
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650 N DEL ROSA DR, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

1-78-50

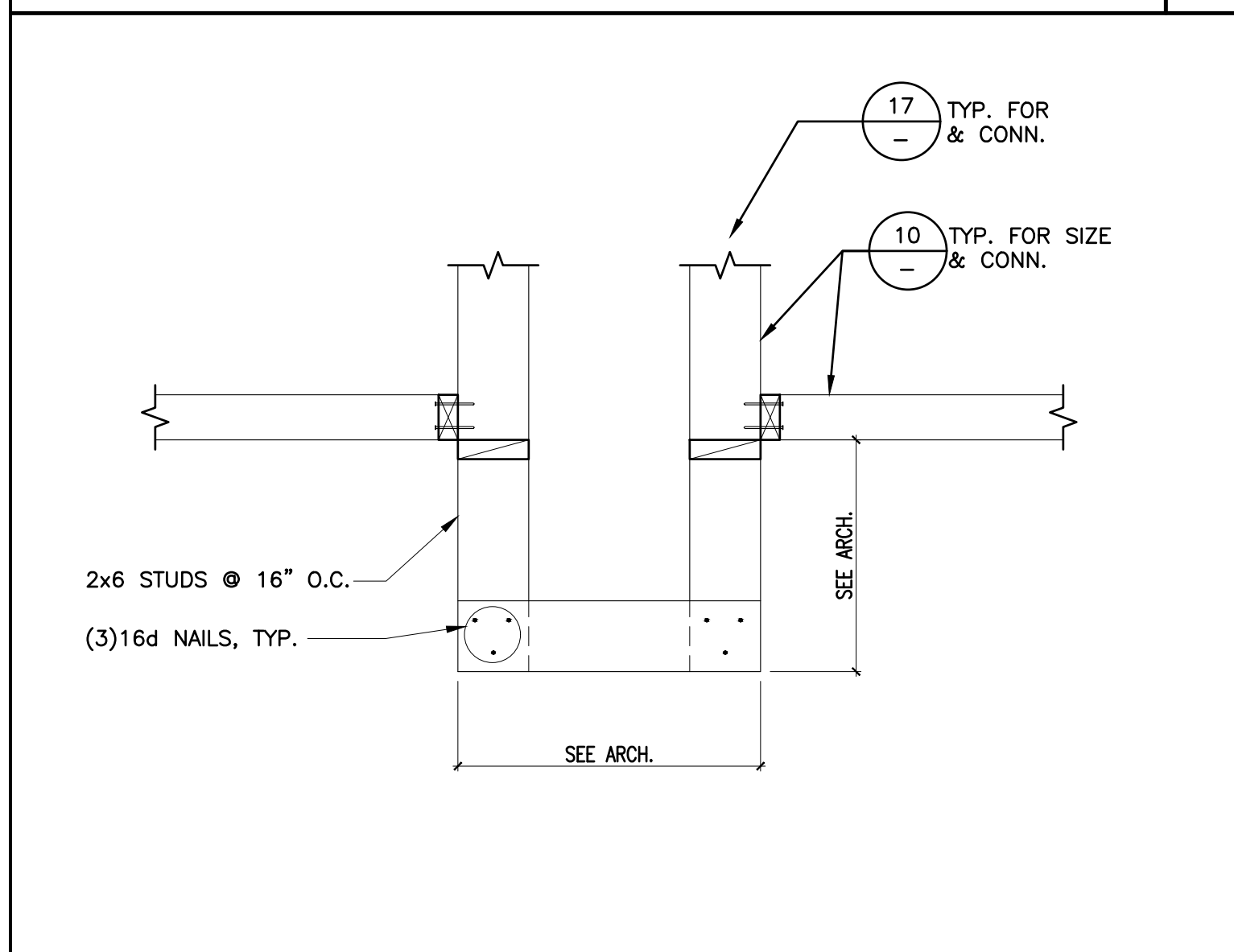
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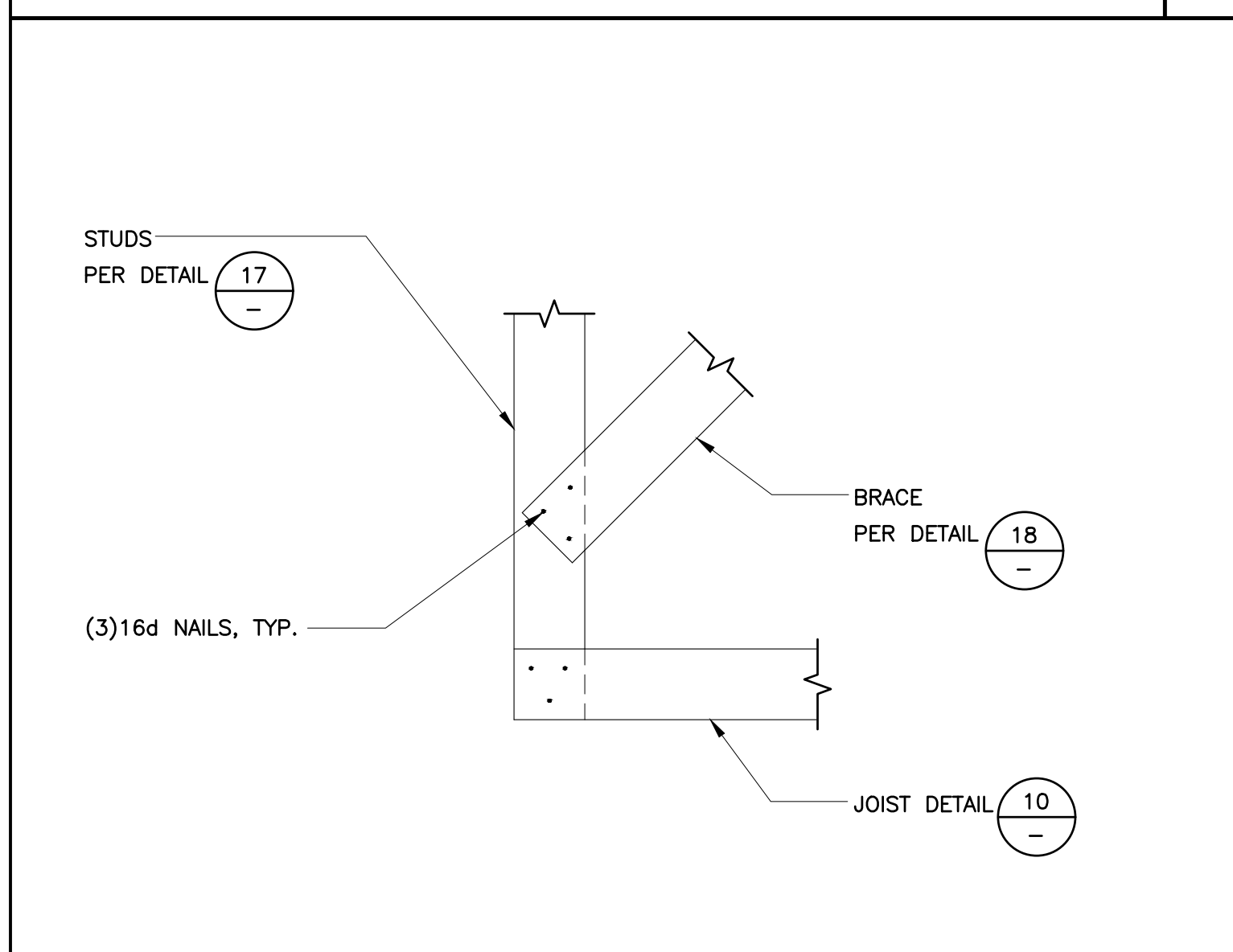
ISHS-041 SCALE: 1"=1'-0" TYP. STUD SOFFIT TO ROOF FRAMING 17



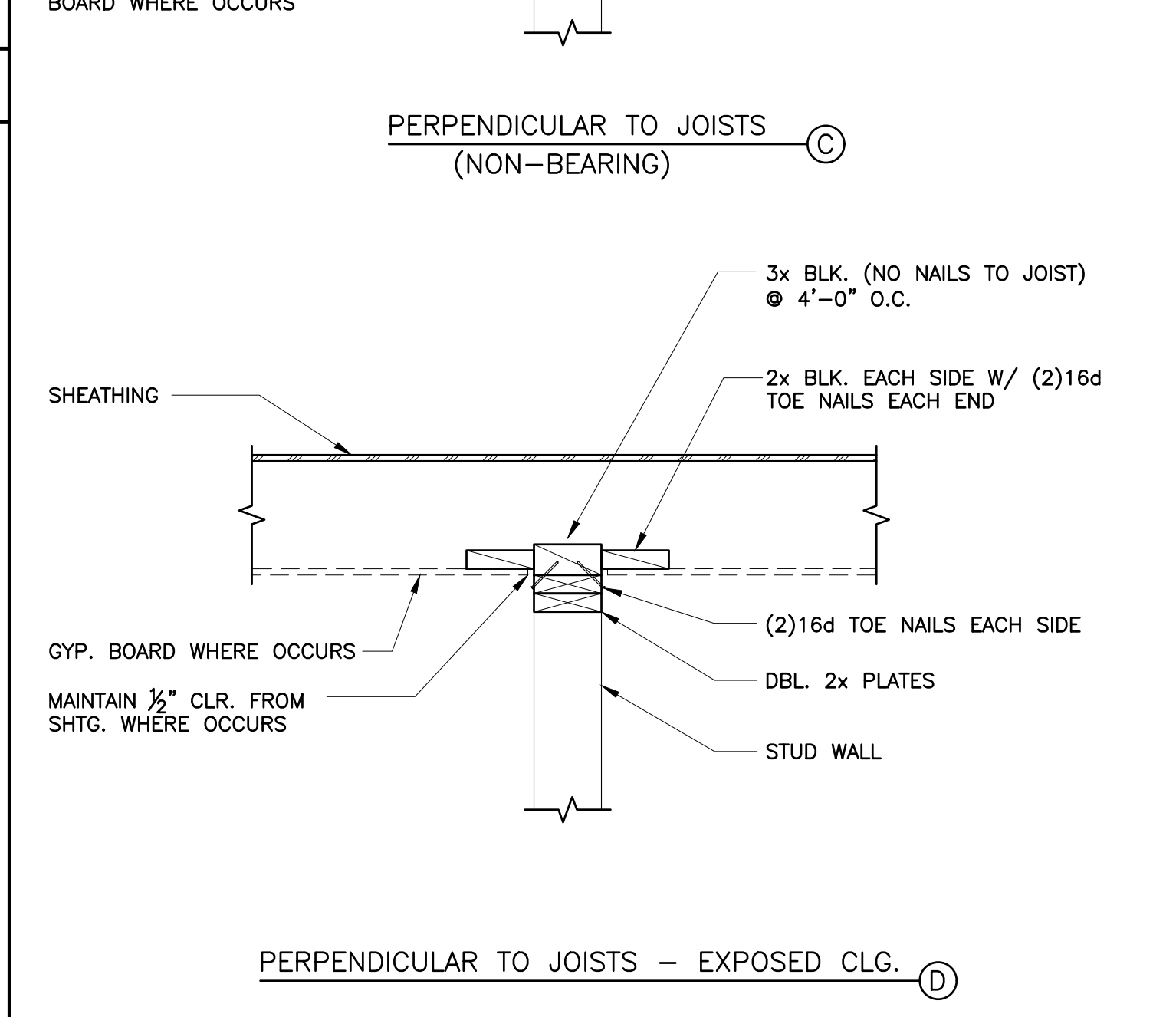
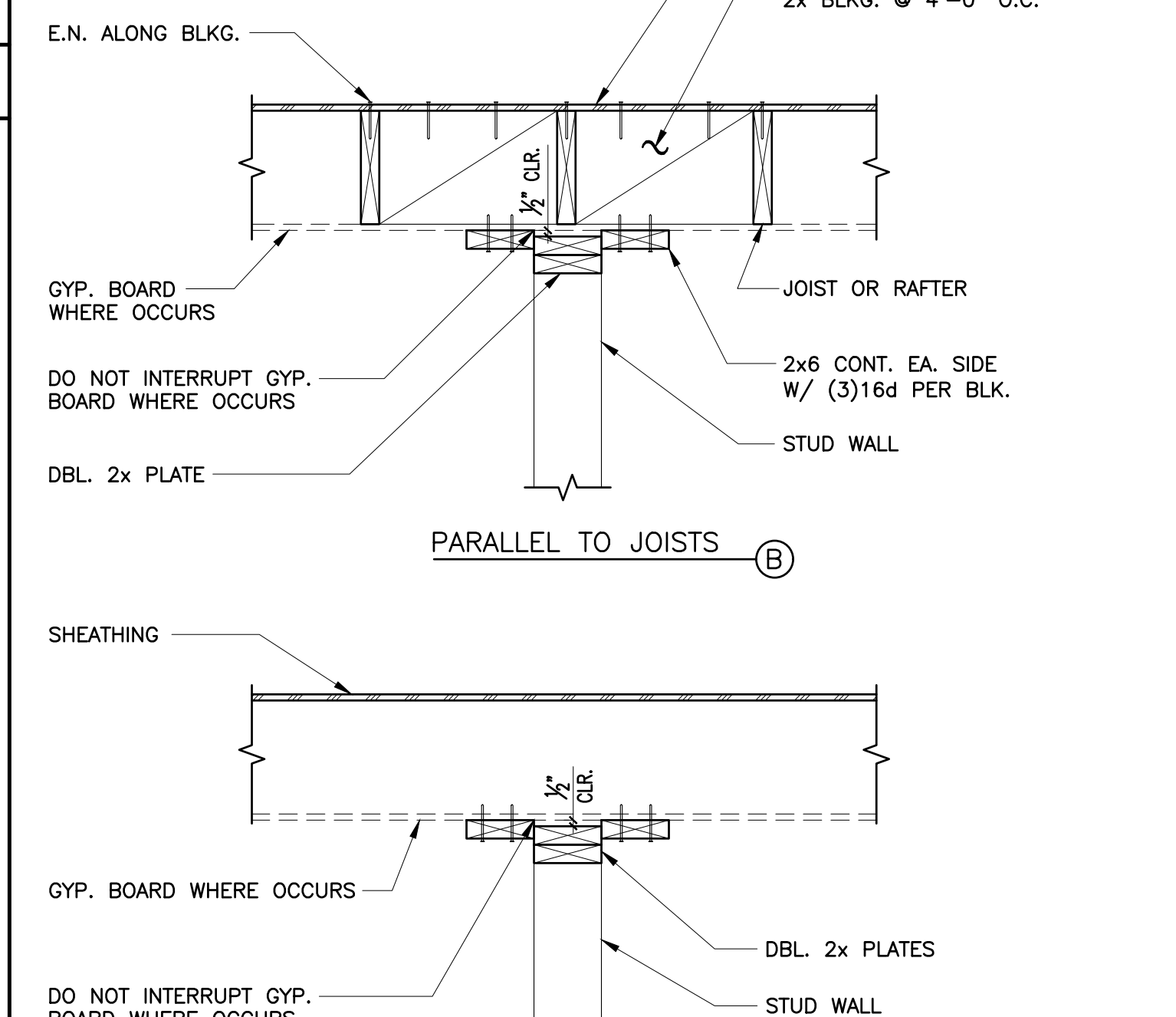
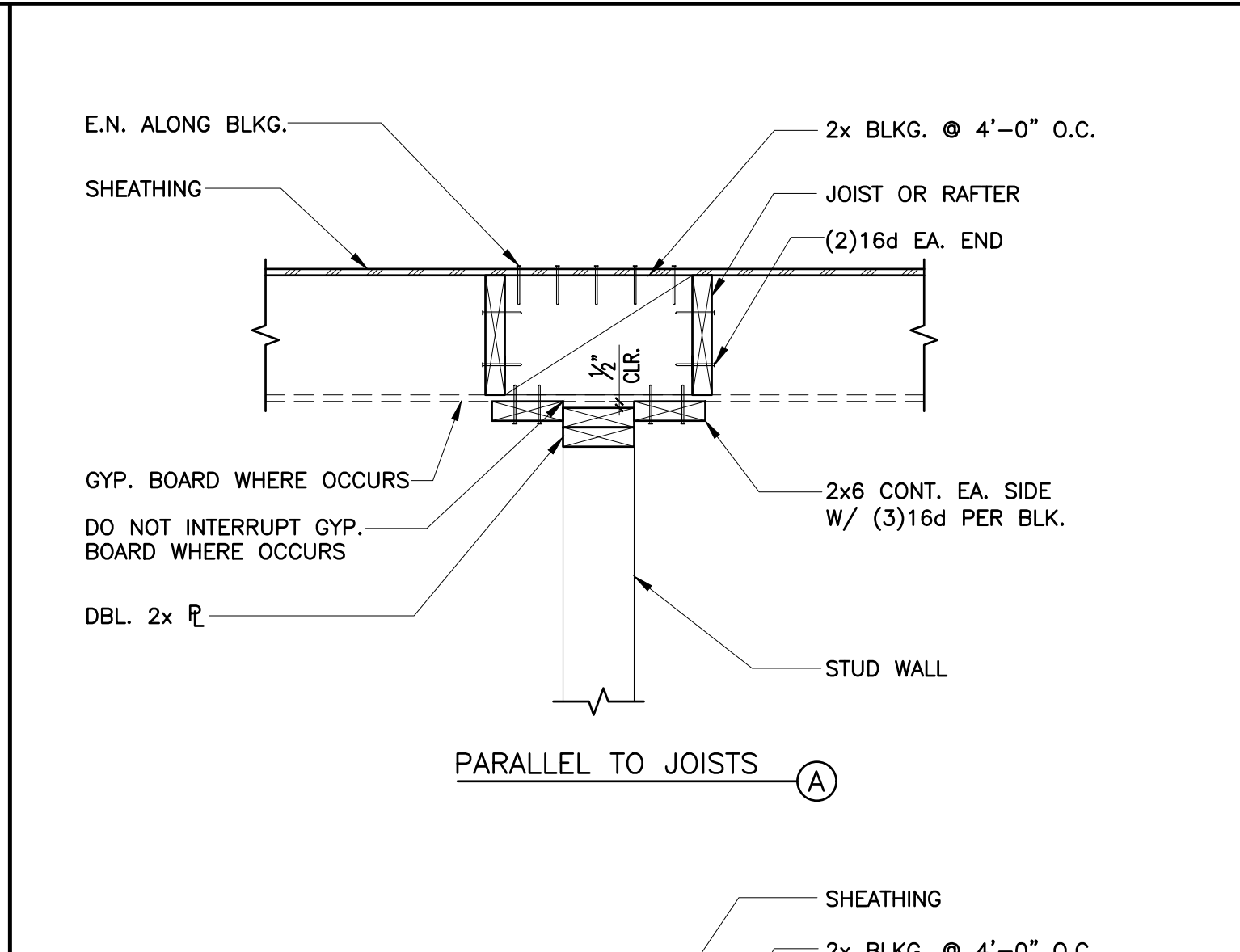
ISHS-042 SCALE: 1"=1'-0" TYP. STUD BRACE TO ROOF FRAMING 18



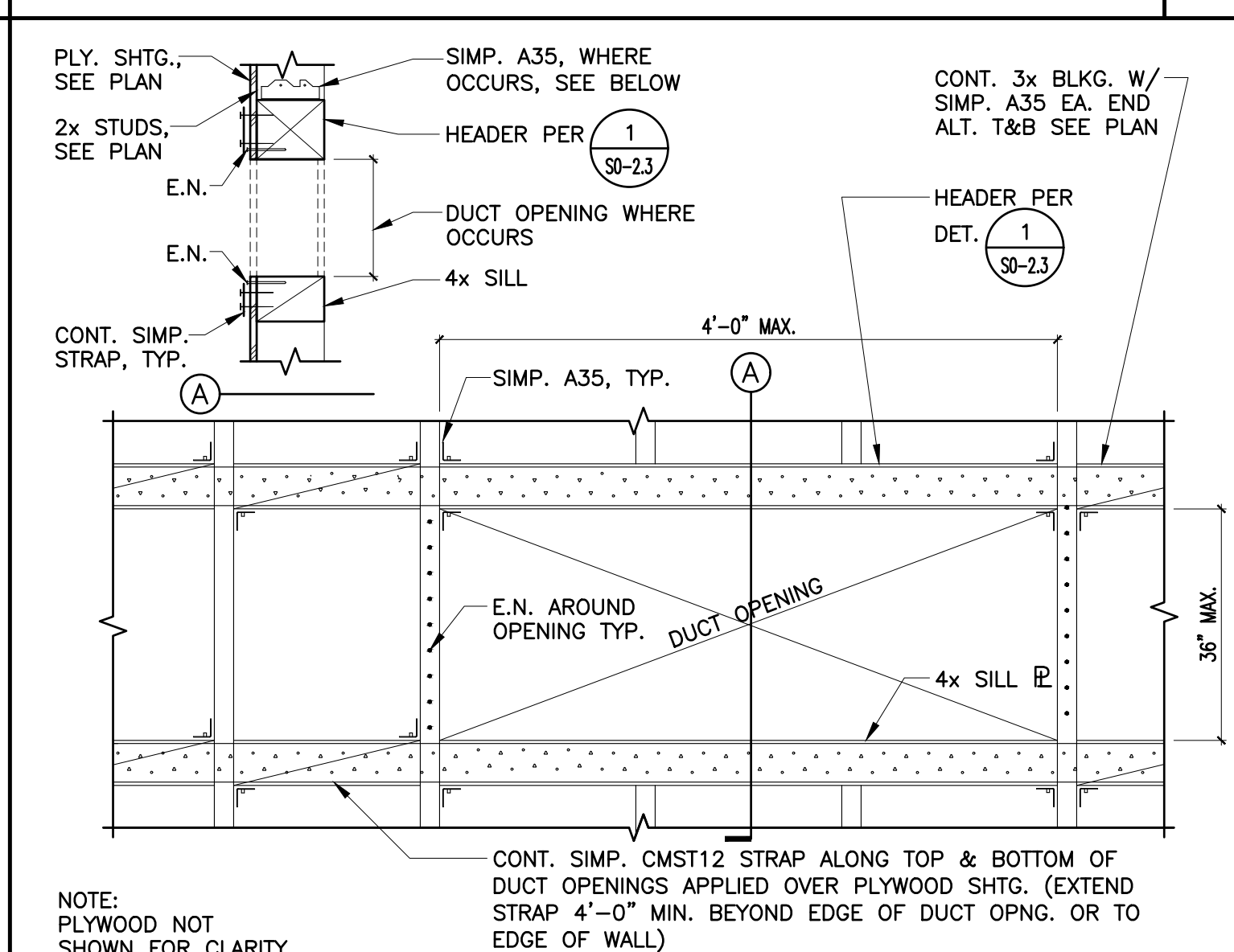
ISHS-043 SCALE: 1"=1'-0" TYP. STUD SOFFIT ELEVATION CHANGE 19



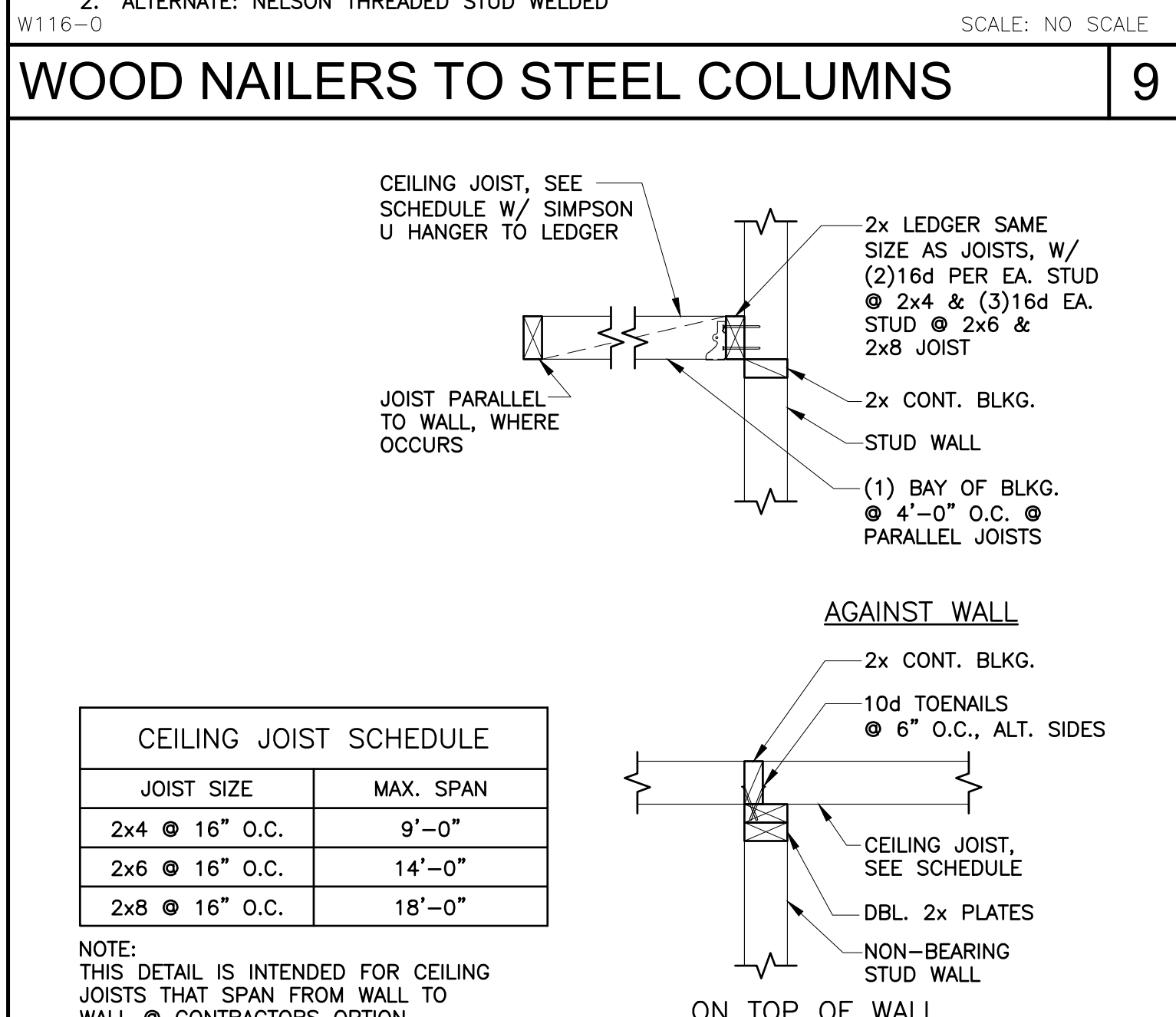
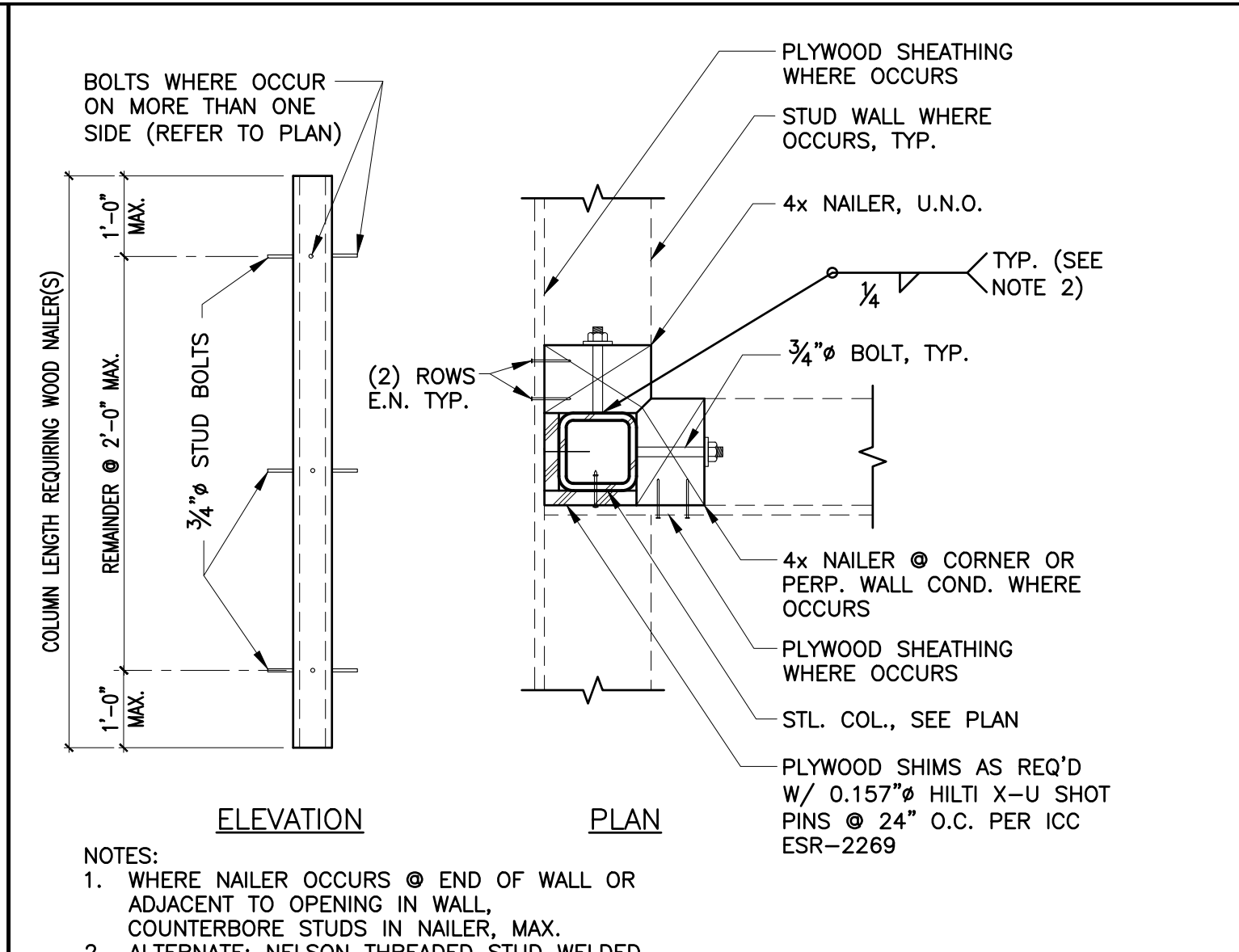
ISHS-044 SCALE: 1"=1'-0" TYP. STUD BRACING 20



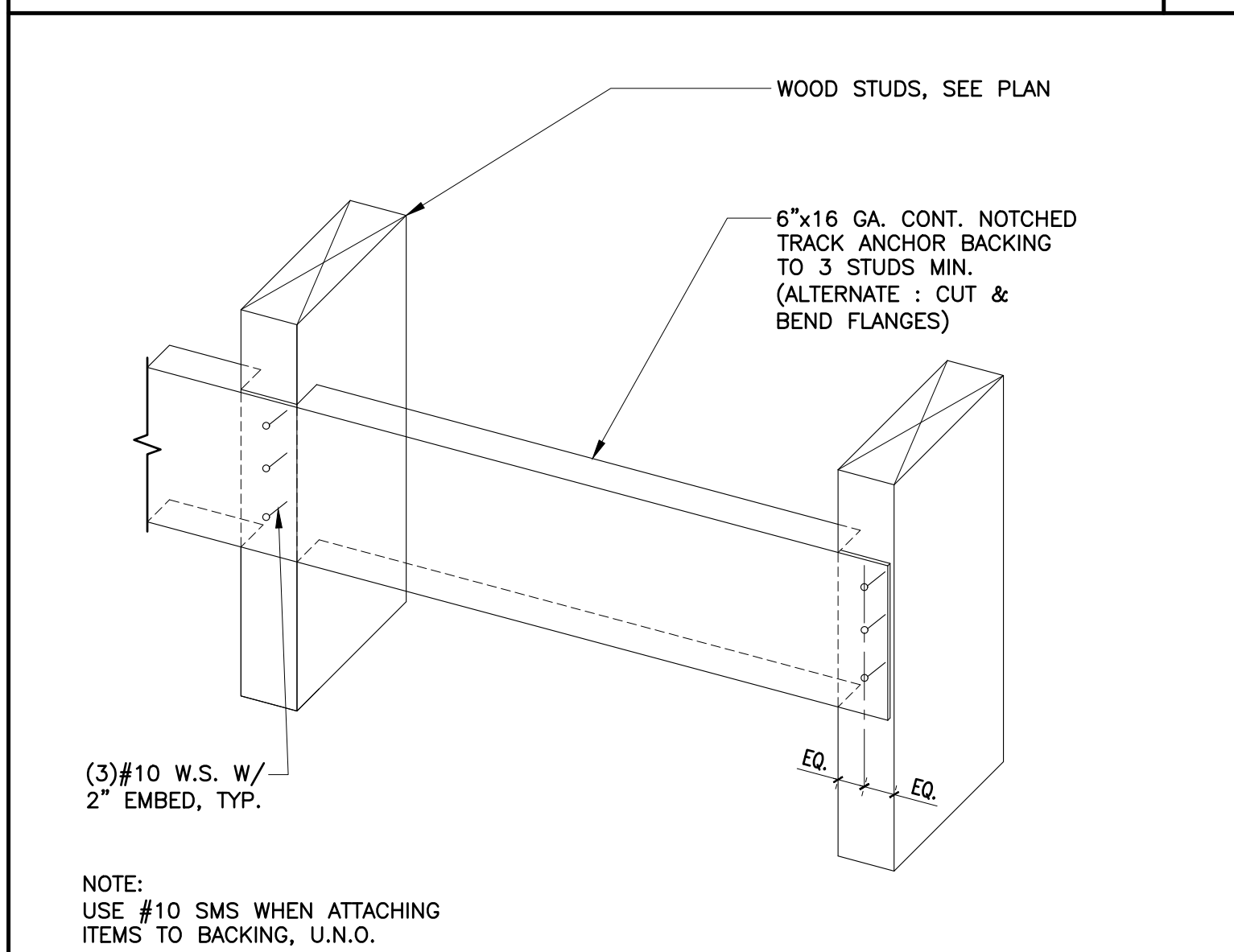
W302-0 SCALE: NO SCALE WOOD PARTITION TOP SUPPORT 15



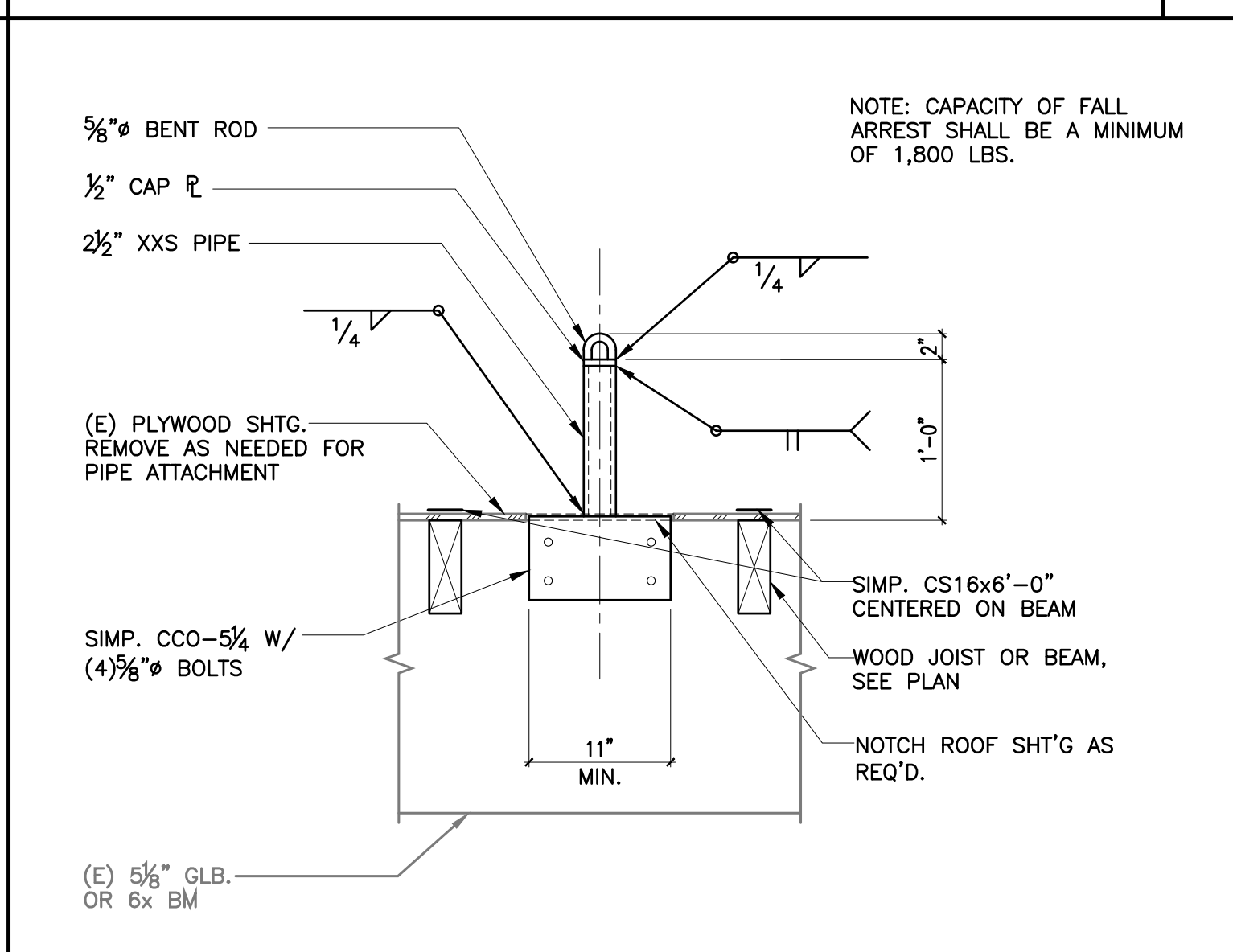
ISHS-056 SCALE: 1"=1'-0" OPENING IN PLYWOOD SHEARWALL 16



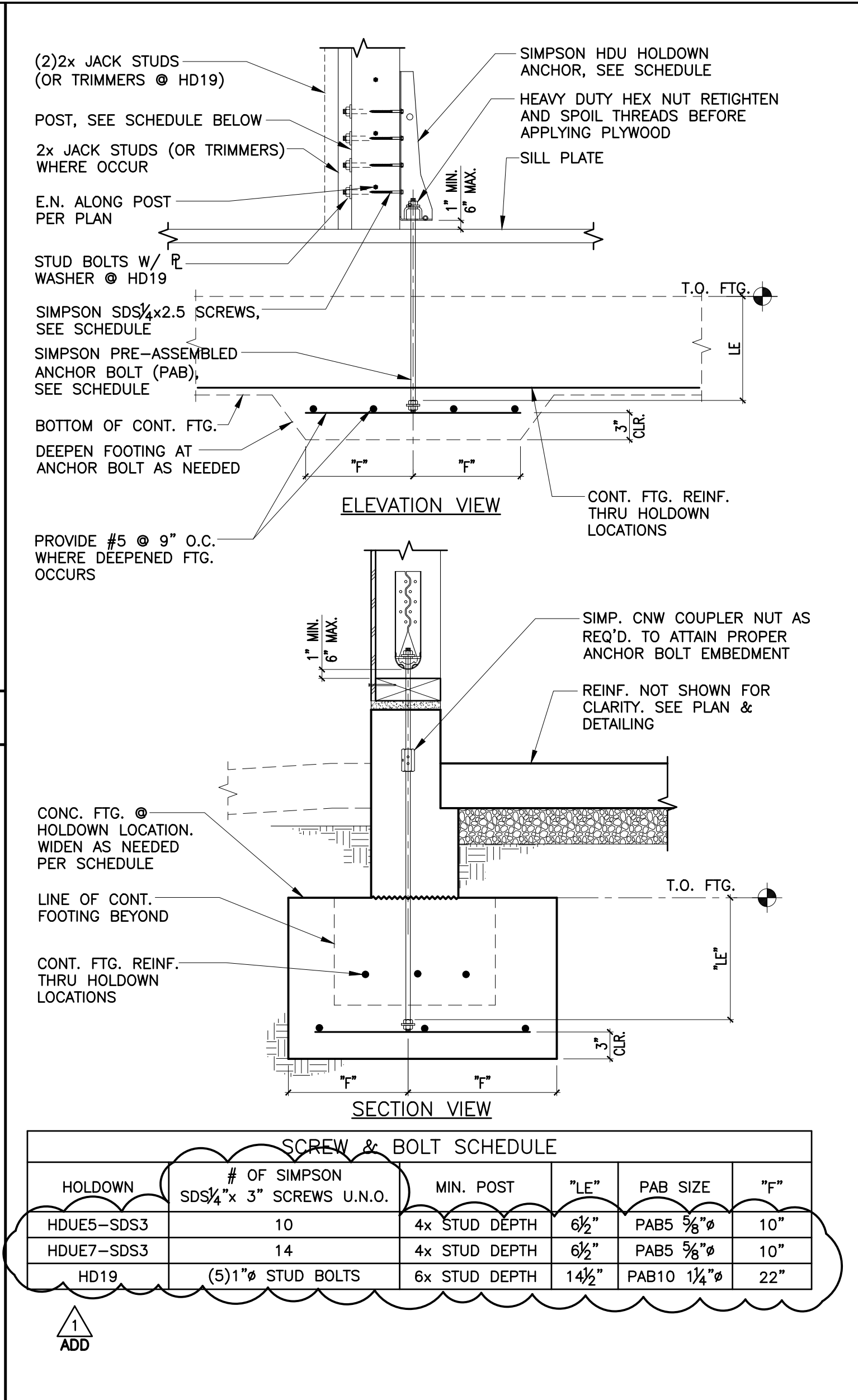
W212-0 SCALE: NO SCALE WOOD NAILERS TO STEEL COLUMNS 9



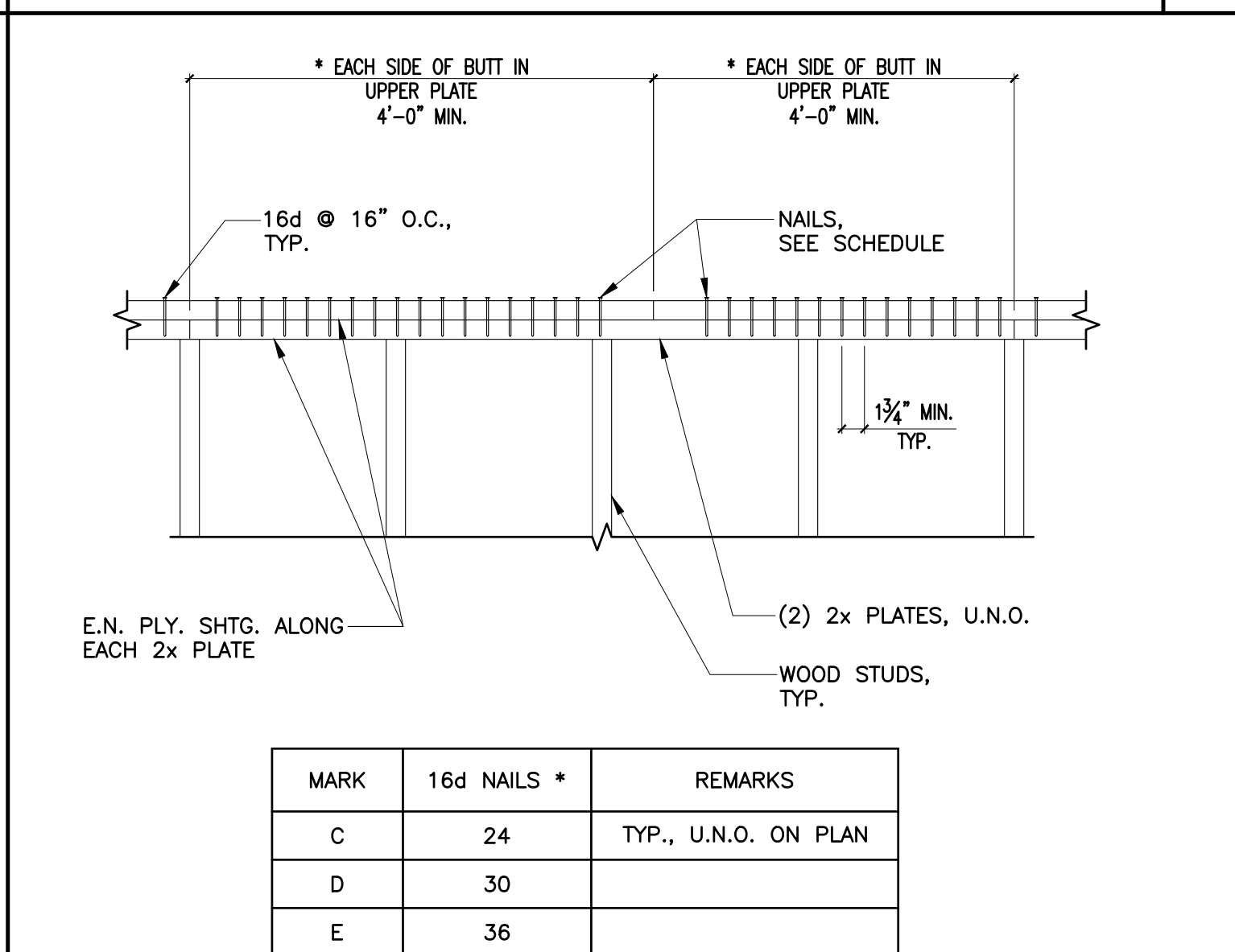
W216-0 SCALE: NO SCALE CEILING JOIST SCHEDULE & DETAIL 10



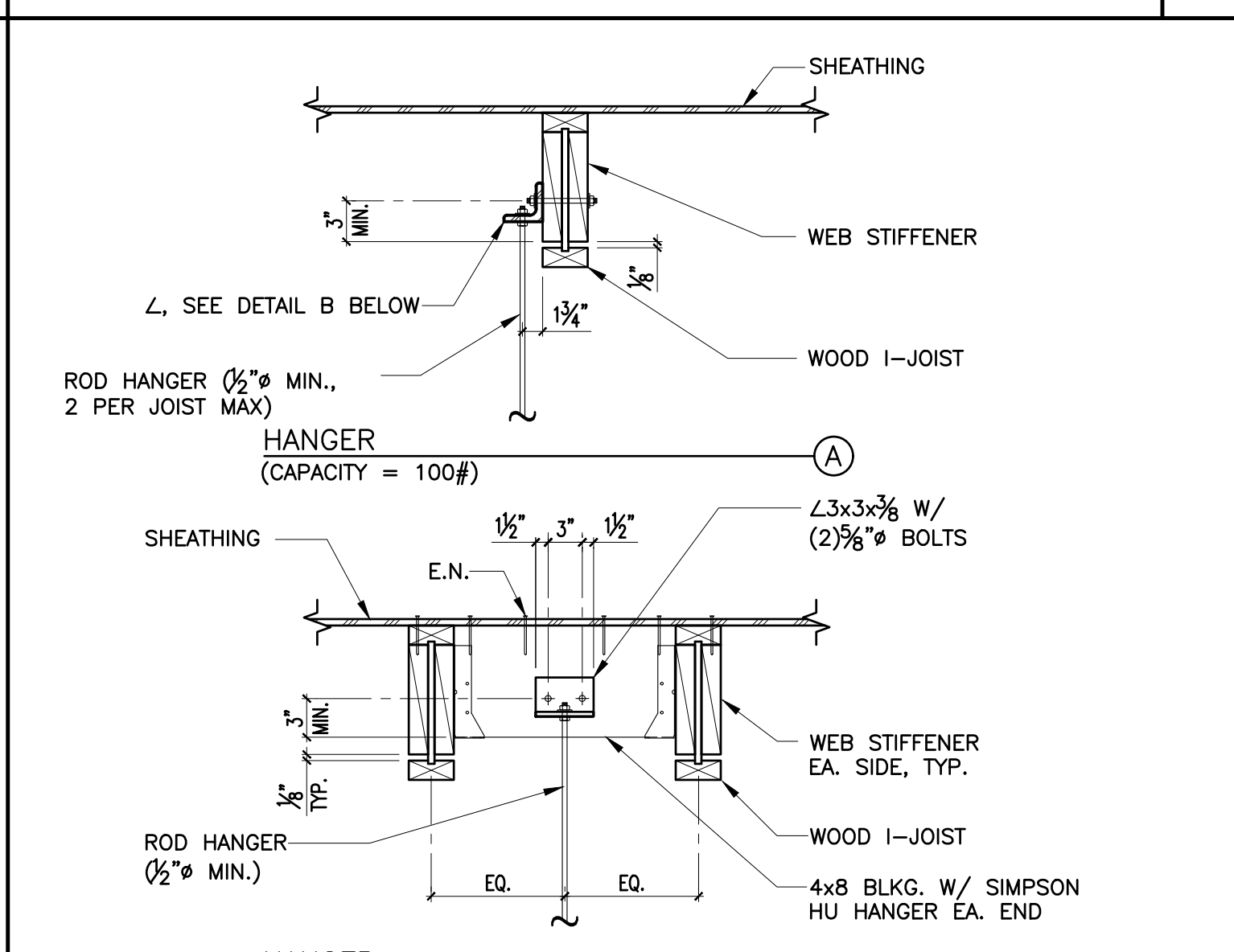
ISHS-005 SCALE: 1"=1'-0" BACKING AT WOOD STUDS 11



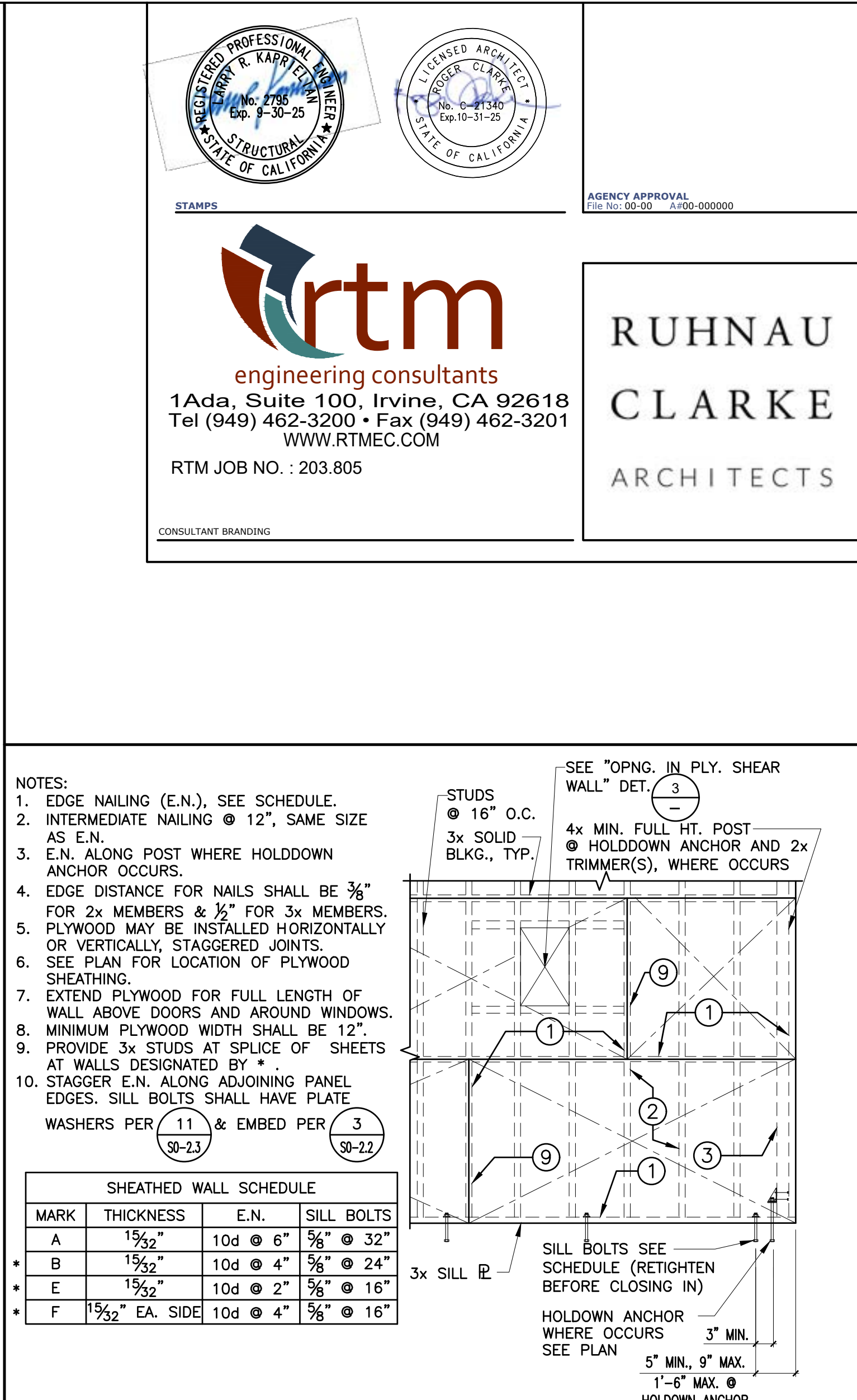
W215-0 SCALE: NO SCALE HOLDOWN ANCHORS 6



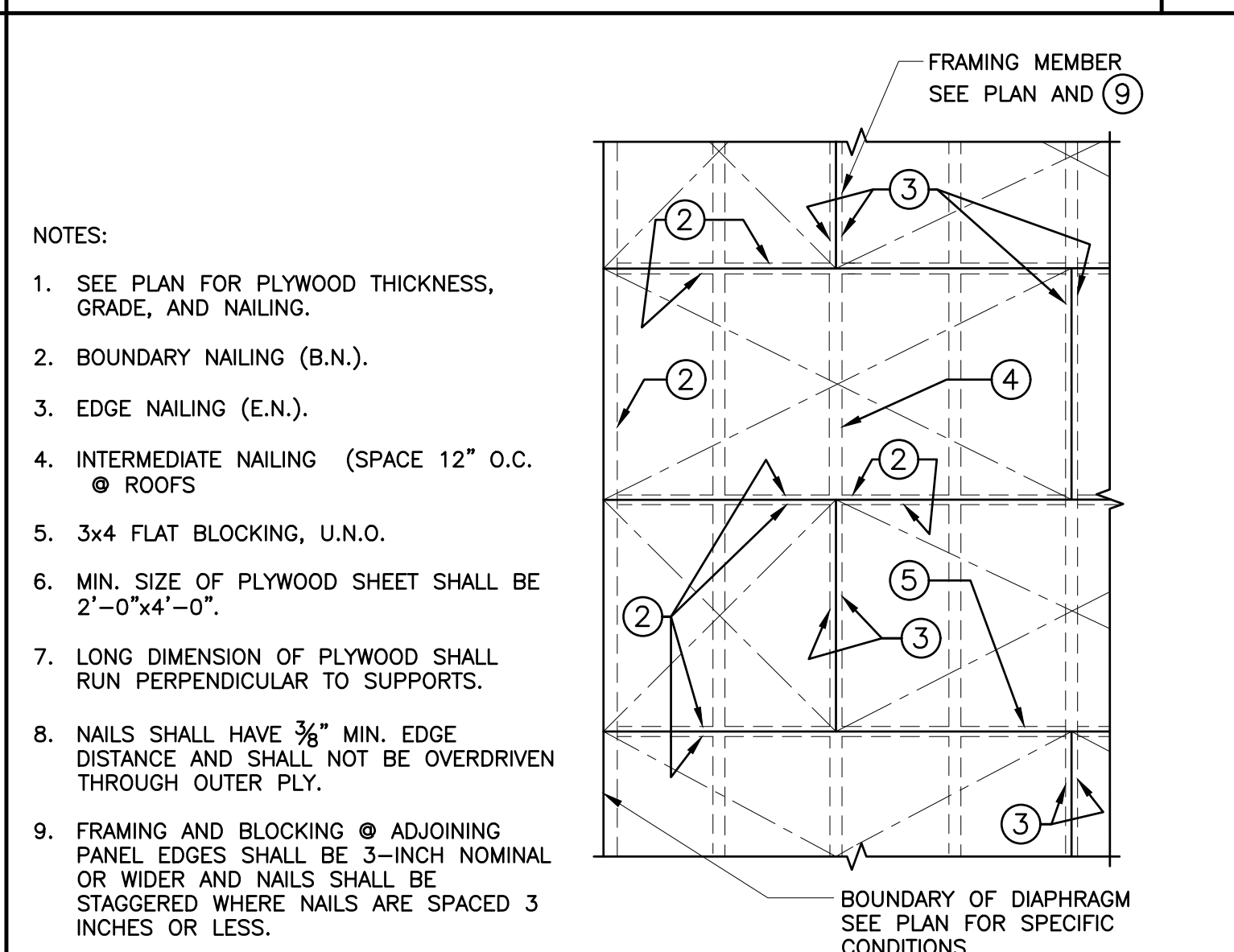
W207-0 SCALE: NO SCALE TOP PLATE SPLICE 7



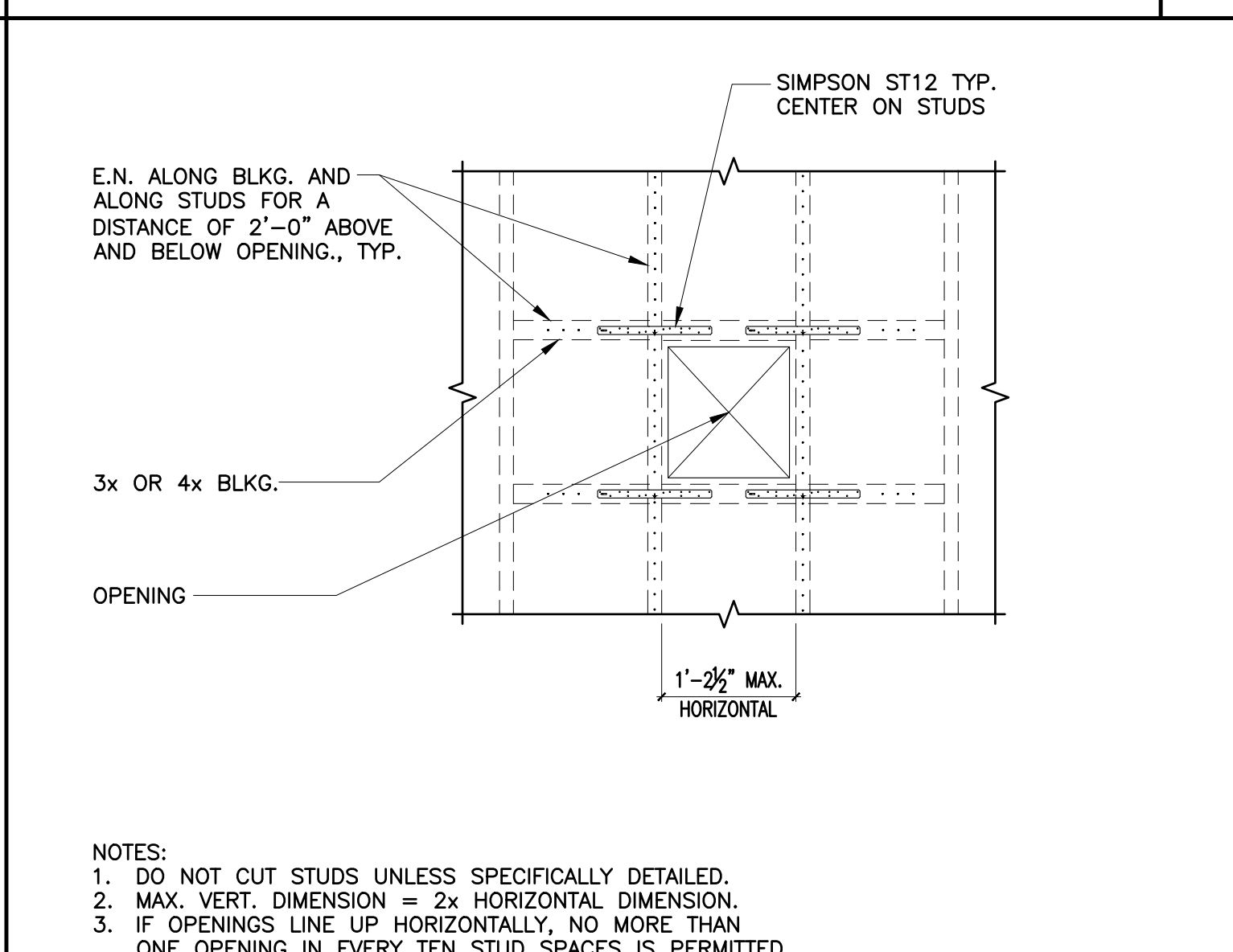
W609-0 SCALE: NO SCALE ROD HANGER AT WOOD I-JOISTS 12



W201-0 SCALE: NO SCALE PLYWOOD SHEATHING - WALLS 1



W202-0 SCALE: NO SCALE HORIZONTAL PLYWOOD SHEATHING 2



W204-0 SCALE: NO SCALE OPEN IN PLYWOOD SHEAR WALL 3



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RTM Job No.: 203.805
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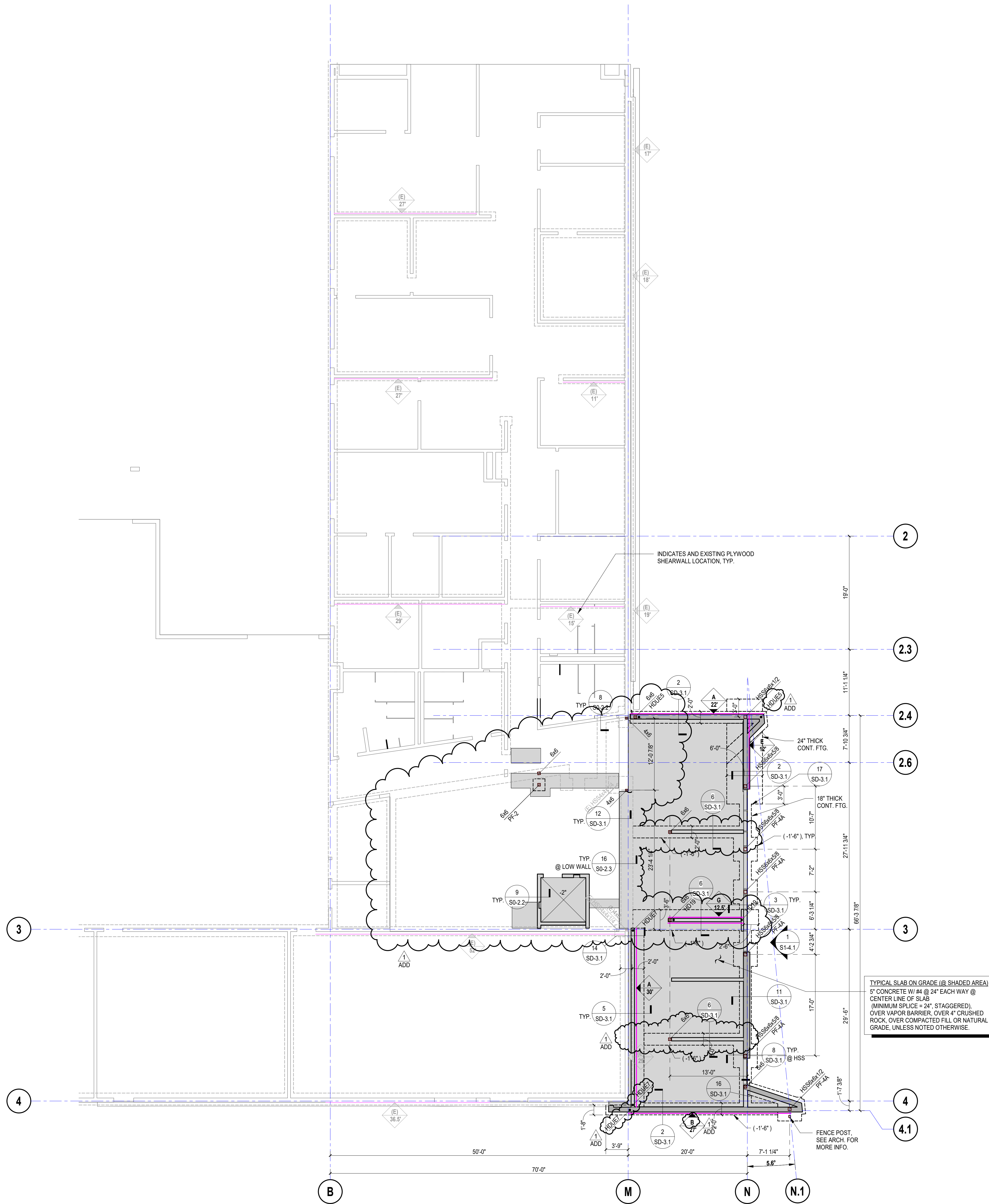
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FOUNDATION PLAN NOTES

- SEE SHEETS S0-1.1 THROUGH S0-2.5 FOR GENERAL NOTES AND TYPICAL DETAILS.
- SEE SPECIFICATIONS FOR ALL SITE AND SUBGRADE PREPARATIONS.
- SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
- SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ALL EXTERIOR CONCRETE PAVING, SLABS, BASES, CURBS, SITE WALLS, ETC.
- FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
- SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLABS.
- ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, CENTER LINE OF COLUMN, OR CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. ALL COLUMNS ARE CENTERED IN STUD WALL, UNLESS NOTED OTHERWISE.
- SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS. INTERIOR NON-BEARING PARTITION WALLS THAT DO NOT REQUIRE CONCRETE CURBS ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
- SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND SLAB PENETRATIONS.
- ALL WALLS SHOWN WITH PLYWOOD SHEAR PANELS SHALL BE CONTINUOUSLY SHEATHED FOR THE FULL LENGTH OF THE WALL WITH THE SAME SHEATHING AS INDICATED. ALL EXTERIOR WALLS SHALL HAVE TYPE A PLYWOOD SHEATHING APPLIED TO THE OUTSIDE FACE PER DETAIL 1/S0-2.4. UNLESS NOTED OTHERWISE.
- FOR TYPICAL PIPE CHASE IN CONCRETE STEM WALL, SEE DETAIL 9/S0-3.1.
- FOR TYPICAL SLAB JOINTS, SEE DETAIL 11/S0-2.1.

LEGEND

- : INDICATES STEEL COLUMN SIZE. SEE DETAIL 3/S0-2.5 FOR STEEL COLUMN BASE PLATE, U.N.O.
- : INDICATES CONCRETE FOOTING. SEE DETAIL 18/S0-2.1 FOR ADDITIONAL INFORMATION.
- : INDICATES DEPTH OF TOP OF FOOTING BELOW FINISH FLOOR.
- : INDICATES PLYWOOD SHEAR WALL TYPE PER 1/S0-2.4.
- : INDICATES LENGTH OF WALL USED FOR DESIGN. ACTUAL LENGTH OF WALL MAY EXCEED, BUT SHALL NOT BE LESS THAN THE LENGTH SHOWN.
- : INDICATES SIMPSON HOLDDOWN ANCHOR. SEE DETAIL 6/S0-2.4 FOR ADDITIONAL INFORMATION.
- : INDICATES CONCRETE CURB. SEE PLANS AND DETAIL 15/S0-2.1 FOR ADDITIONAL INFORMATION.
- : INDICATES STEP IN CONTINUOUS FOOTING. SEE DETAILS 5 OR 6/S0-2.1 FOR ADDITIONAL INFORMATION. STEP CONTINUOUS FOOTING TO MATCH BOTTOM OF LOWEST ADJACENT FOOTING ELEVATION.



FOUNDATION PLAN

SCALE: 1/8\"/>

PROJECT No. :1-76-50
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MODERNIZATION & EXPANSION
INDIAN SPRINGS HIGH SCHOOL
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SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

FOUNDATION PLAN

S1-1.1



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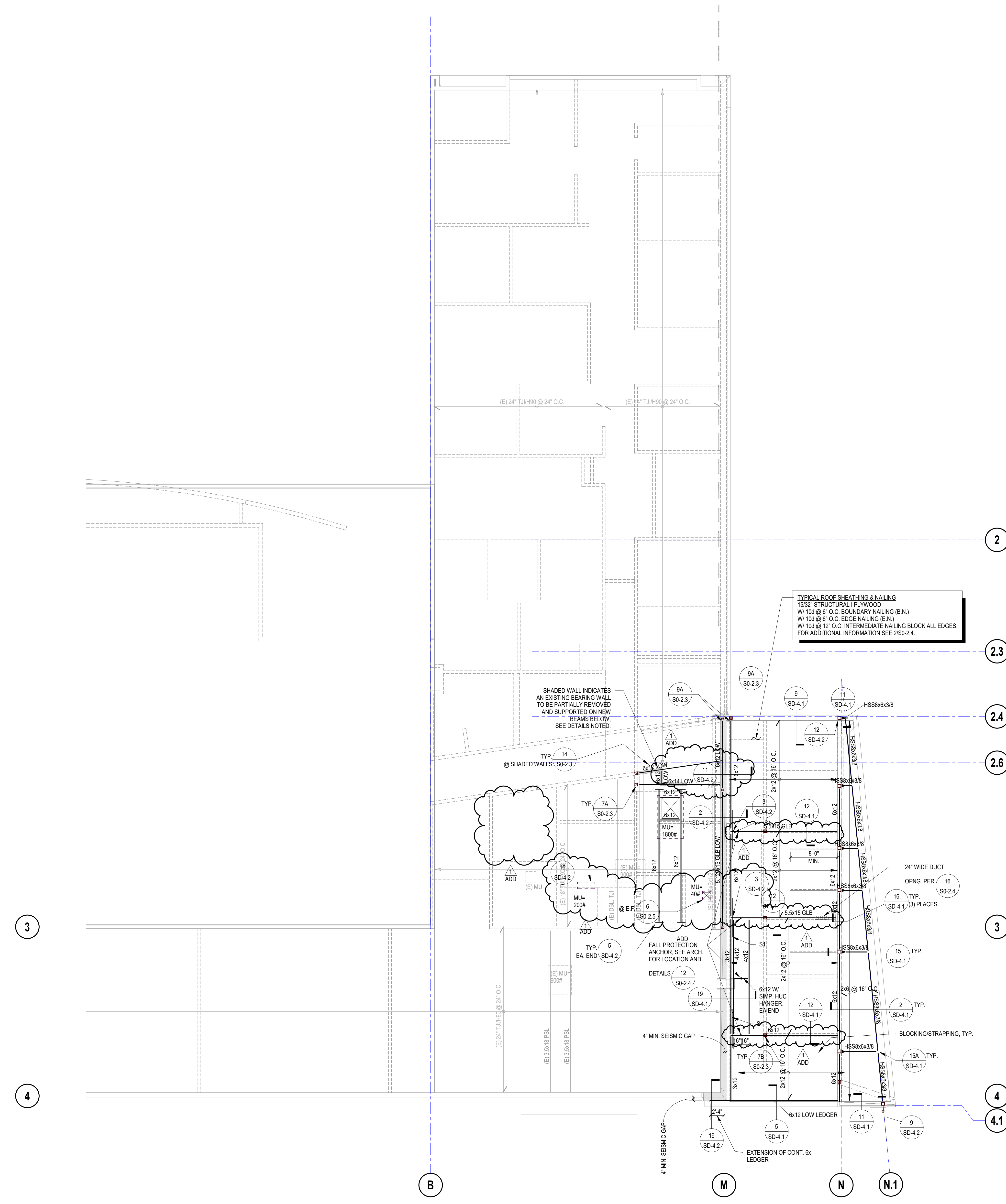
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ROOF FRAMING PLAN NOTES

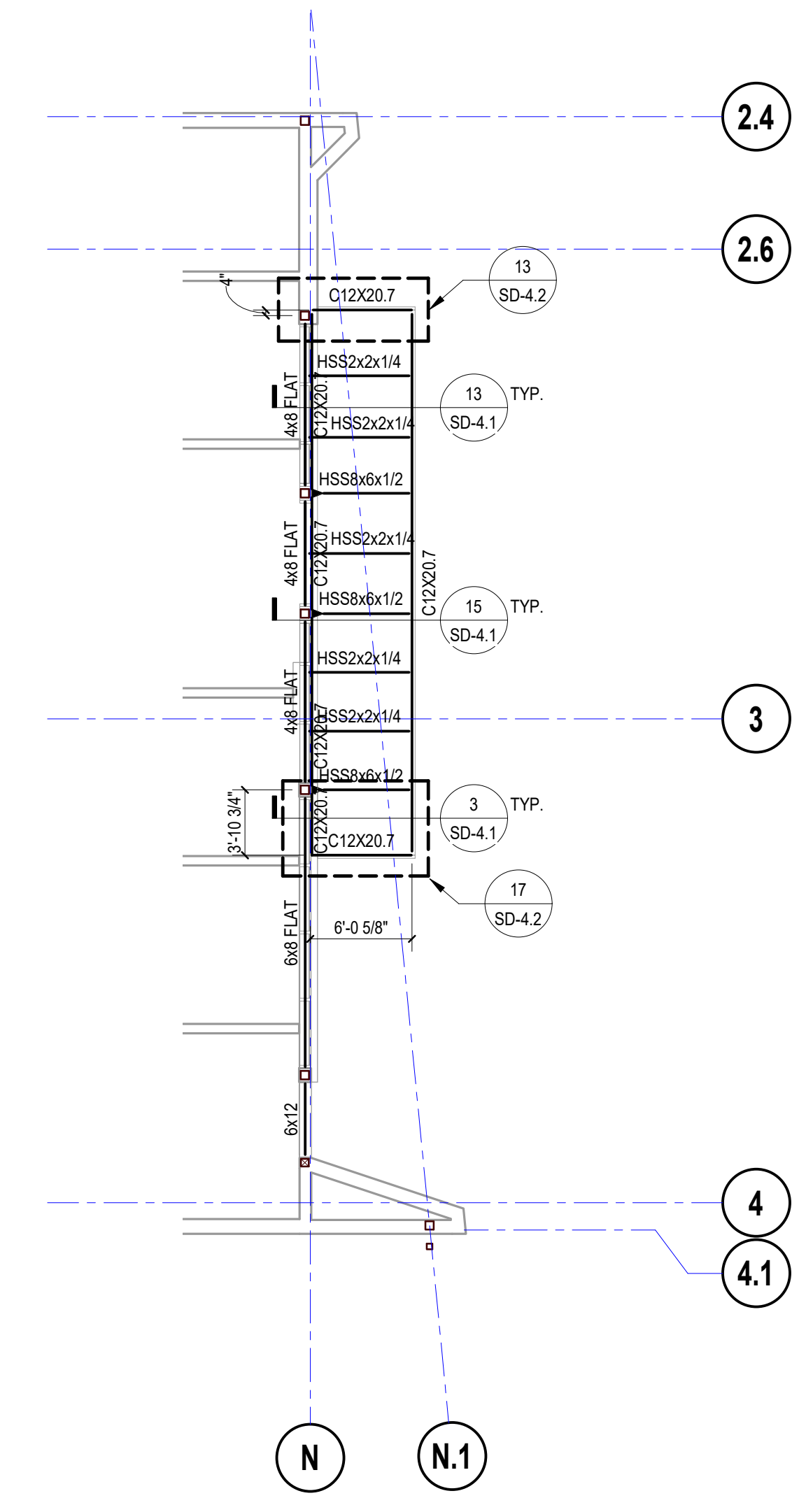
- SEE SHEETS S0-1.1 THROUGH S0-2.5 FOR GENERAL NOTES AND TYPICAL DETAILS.
- SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL/PARAPET ELEVATIONS.
- SEE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ROOF OPENINGS NOT SHOWN ON ROOF FRAMING PLANS. SEE DETAIL 10S0-2.3 FOR TYPICAL OPENINGS, UNLESS NOTED OTHERWISE.
- SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
- PROVIDE 2" BY FULL DEPTH SOLID BLOCKING AT 8'-0" MAXIMUM FOR ROOF JOISTS OR RAFTERS MORE THAN 6" IN DEPTH.
- ALL LINES AND/OR MEMBERS INDICATED AS "STRUT" SHALL RECEIVE (2) ROWS OF BOUNDARY NAILING (B.N.), STAGGERED.
- "ML" DENOTES MECHANICAL UNIT. MAXIMUM ALLOWABLE WEIGHT IS SHOWN. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND WEIGHT OF MECHANICAL UNITS. FOR TYPICAL FRAMING AT MECHANICAL UNITS, SEE DETAILS 8 OR 10S0-2.5.
- SAWN LUMBER HANGERS SHALL BE SIMPSON B (LB @ 2X FRMG) HANGERS, UNLESS NOTED OTHERWISE.

LEGEND

- INDICATES WOOD HEADER OVER OPENING BELOW. SEE DETAIL 1/S0-2.3 FOR SIZE & FRAMING UNLESS NOTED OTHERWISE ON PLAN.
- INDICATES SPAN OF JOISTS.
- INDICATES EXTENT OF JOISTS.
- INDICATES AMOUNT OF CAMBER IN GLB. STANDARD CAMBER (RADIUS= 3500 FT.) REQUIRED WHERE NONE SHOWN.
- INDICATES TOP PLATE SPLICE. SEE DETAIL 7/S0-2.4. PROVIDE TOP PLATE SPLICE PER DETAIL 7C/S0-2.4, UNLESS NOTED OTHERWISE.
- INDICATES A LEDGER SPLICE STRAP INSTALLED OVER TOP OF PLYWOOD TO LEDGER. PROVIDE SIMP. CMSTC14x6-6" CENTERED ON SPLICE WHERE OCCURS, UNO



ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



CANOPY FRAMING PLAN
SCALE: 1/8" = 1'-0"

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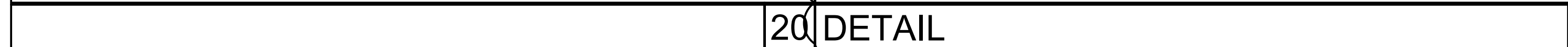
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ROOF FRAMING PLAN

S1-3.1

INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER:



PRINTED: 9/9/2025 5:01:25 PM
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PROJECT No. :
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DRAWN BY: JJO

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DATE 09/05/25

☐ ADD

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CHECKED BY: SJ

DELTA # 3

DATE 09/05/25

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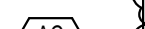
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A/C UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO.	AREA SERVED	COOLING PERFORMANCE				FILTER	HEATING PERFORMANCE				FAN SYSTEM						REFRIG. TYPE	ELECTRICAL		POWER EXHAUST/ ECONOMIZER ELECTRICAL		FACTORY ACCESSORIES / REMARKS	OPR. WEIGHT WITH ACCESSORIES (LBS.)	ANCHORAGE DETAIL REFERENCE	AREA SMOKE DETECTOR FOR SHUTDOWN	
			EAT DB/WB	LAT DB/WB	CAPACITY (MBH)	EFF.		EAT (°F)	LAT (°F)	CAPACITY (MBH)	EFF.	SUPPLY CFM	MIN./MAX. OSA	ESP (W.C.)	RPM	DRIVE	POWER		V-PH-HZ	AMPS	V-PH-HZ	AMPS					
(E) AC-3	TRANE 4YC2048	WAITING, MHBH, SOCIAL WORKER, CLERK, STORAGE	76.3 62.4	55 54	42 TOTAL CAP. 38.6 SENS. CAP.	16 SEER 12 EER	30%	63.7	105	120 INPUT 96.5 OUTPUT	80% AFUE	1200	115	0.4"	1589	DIRECT	3/4 HP	R-410A	480V-3ø-60Hz	20 MOCP	N/A	N/A	EXISTING ISOLATION CURB, OSA HOOD, COIL GUARD	900	EXISTING	YES	
	TRANE WHK090AHS00	PUBLIC LOBBY, CORRIDOR, NURSE STATION, UNISEX, EXAM ROOMS, MHBH, CLEANDIRTY LAB, CLOSETS	78.4 63.1	55.59 53.95	54.06 TOTAL CAP. 50.83 SENS. CAP.	15.8 SEER2 12.8 EER2	MERV-13	64.4	90.87	47.85 TOTAL	3.74 COP2 (47F) 2.46 COP2 (17F)	2000	210/285	1.0"	1003	VARIABLE DIRECT	0.661 BHP	R-454B	480V-3ø-60Hz	16 MCA 20 MOCP	480V-3ø-60Hz	1.875 MCA 3.375 MOCP	2 3 4 5 6 7 8 9 845 - UNIT 331 - PEECON 474 - 11" TALL CURB 1,650 - TOTAL	1 MD-1.2	YES		
EQUIPMENT NOTES:																											
① SEPARATE DISCONNECT/POWER			⑤ OSA DAMPER TO ACTUATE TO ALLOW MAX. OSA (NON-ECONOMIZER MODE) WHEN CO2 SENSOR READS 1,000 P.P.M. AND ABOVE, OTHERWISE, OSA DAMPER TO BE AT MIN. POSITION.				⑧ VENSTAR PROGRAMMABLE THERMOSTAT																				
② THRU-THE-BASE ELECTRICAL CONNECTION																				⑨ VENSTAR CO2 SENSOR, SEE FLOOR PLANS FOR LOCATIONS							
③ ECONOMIZER OUTSIDE AIR TEMPERATURE SENSOR TO BE LOCATED AWAY FROM DIRECT SUNLIGHT.			⑥ CANFAB 11" TALL ISOLATION CURB P/N: 6042-IC																								
④ HAIL GUARDS			⑦ CANFAB ECONOMIZER & POWER EXHAUST P/N: 6144-PE/ME																								

EXHAUST FAN SCHEDULE

TAG	MANUFACTURER & MODEL NO.	AREA SERVED	FAN SYSTEM				INLET / RADIATED SONES	ELECTRICAL		OPR. WT WITH ACCESSORIES (LBS.)	ANCHORAGE DETAIL REFERENCE	ACCESSORIES / REMARKS
			FLOW	ESP	RPM	POWER		V-PH-HZ	AMPS			
EF 3B	GREENHECK G-060-VG	UNISEX 108	70 CFM	0.296" W.G.	1472	0.01 BHP 1/15 HP	3.1 / -	120V-1Ø-60Hz	1.3 FLA	22 - UNIT 14 - 12" TALL CURB 36 - TOTAL	6 MD-1.1	1 2 3 4 5 6 7 8
EQUIPMENT NOTES: ① VARI-GREEN MOTOR WITH BALANCING DIAL ② JUNCTION BOX & SWITCH ③ GALV. BIRD SCREEN ④ DAMPER, WD-90-PB-8X8 ⑤ ROOF CURB, GPI-17-8-G12 ⑥ 1" LINER IN CURB ⑦ DAMPER TRAY ⑧ INTERCONNECT TO UNISEX RESTROOM LIGHT SWITCH, SEE ELECTRICAL PLANS												

INDOOR UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO.	AREA SERVED	DESIGN CONDITION		CFM	ECM MOTOR POWER	REFRIGERANT TYPE	OPR. WEIGHT (LBS.)	REMARKS (SEE EQUIPMENT NOTES BELOW)	ANCHORAGE DETAIL REFERENCE
			EAT DB/WB	LAT DB/WB						
IU 1	MITSUBISHI ELECTRIC PKA-AK24NL	DATA RM	86 67	55 54	775 HI 705 MED 635 LOW	69 WATTS	R-454B	46	1 2 3	2 MD-1.2
EQUIPMENT NOTES: ① POWER TO FAN COIL IS FEED FROM CONDENSING UNIT ② CONDENSATE PUMP, BLUE DIAMOND MAXIBLUE MODEL X87-711 ③ REMOTE HARD WIRED THERMOSTAT										

OUTDOOR UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO.	COOLING CAPACITY		ELECTRICAL			OPR. WEIGHT (LBS.)	REMARKS (SEE EQUIPMENT NOTES BELOW)	ANCHORAGE DETAIL REFERENCE
		BTU/HR	SEER/ EER	V-PH-HZ	MCA	MOCP			
OU 1	MITSUBISHI ELECTRIC PLZ-AH24NL	24,000	21.1 SEER2 12 EER2	208V-1Ø-60Hz	22	37	155	1 2	3 MD-1.2
EQUIPMENT NOTES: ① POWER FROM CONDENSING UNIT TO FEED FAN COIL ② DISABLE HEATING MODE									

AGENCY APPROVAL
TSD No.: 0000000000000000

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DESIGN WEST ENGINEERING
MECHANICAL - ELECTRICAL - ENERGY CONSULTANTS

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MECHANICAL
SCHEDULES CONT.

M0-1.1

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STATE OF CALIFORNIA

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ENV-4

This document is used to demonstrate compliance with mandatory requirements in 130.8(a) and 120.7(b) for newly constructed nonresidential, hotel/motel, multifamily and mixed-use buildings, and 141.0(b)(1) for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in 140.3/170.2 for newly constructed buildings, and 141.0/180.1/180.2 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.

Project Name: Indian Springs HS Wellness Center

Report Page: (Page 3 of 12)

Date Prepared: 8/29/2025

GENERAL INFORMATION			
01 Project Location (city)	San Bernardino	05 # of Stories (Habitable Above Grade)	1
02 Episode	92410	06 Total Conditioned Floor Area (ft ²)	2157
03 Climate Zone	30	07 Total Unconditioned Floor Area (ft ²)	0
Occupancy Types Within Project: (select all that apply). If an occupancy constitutes > 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per 130.0(c).			
04	08	09	10
Office	Support Areas	All Other Occupancies	
FOOTNOTE: Enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in 140.3(c)/170.2(b). Compliance with 140.3(c)/170.2(b) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.			

B. PROJECT SCOPE			
This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in 140.3/170.2 and 141.0(a)/180.1 and 141.0(b)(1) and 2/180.2 for additions and alterations.			
My project consists of (check all that apply)		Component Types	
01		02	
New Construction or Newly Conditioned Space		Roof	
One or more enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15ft		Walls	
Addition of conditioned space		Floors	
One or more enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15ft		Walls	
Addition is <= 700 ft ²		Floors	
Addition is > 700 ft ²		Fenestration/Glazed Doors	
Alteration of conditioned space		Roof Assembly	
One or more enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15ft		Roofing Material	
Lighting system installed for the first time		Floors	
		Fenestration	

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Envelope Component Approach

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Project Name: Indian Springs HS Wellness Center

Report Page: (Page 4 of 12)

Date Prepared: 8/29/2025

F. ROOF ASSEMBLY SCHEDULE													
Tag/Plan Detail ID	How Design U-factor was determined	Roof Type & Frame Material	Frame Spacing Depth	Cavity Insulation per Design ¹	Continuous Insulation per Design ²	Thermal Performance Unit	Required Thermal Performance ³	U-factor per Design	Net Area ⁴ ft ²				
(N) Roof	JAA Tables	Wood		38	0	U-factor	0.034	per JAA per Software/ Other	0.029	114			
(N) Roof	JAA Tables	Wood		38	0	U-factor	0.034	per JAA per Software/ Other	0.029	119			
(N) Roof	JAA Tables	Wood		38	0	U-factor	0.034	per JAA per Software/ Other	0.029	109			
(N) Roof	JAA Tables	Wood		38	0	U-factor	0.034	per JAA per Software/ Other	0.029	114			
(N) Roof	JAA Tables	Wood		38	0	U-factor	0.034	per JAA per Software/ Other	0.029	365.3			
(N) Roof	JAA Tables	Wood		38	0	U-factor	0.034	per JAA per Software/ Other	0.029	45			
(N) Roof	JAA Tables	Wood		38	0	U-factor	0.034	per JAA per Software/ Other	0.029	22			

FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal framed walls may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.
If "R-value" is shown in cell 13 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per Table 141.0-C.
Roof area minus any fenestrated skylight area

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Envelope Component Approach

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Project Name: Indian Springs HS Wellness Center

Report Page: (Page 7 of 12)

Date Prepared: 8/29/2025

H. WALL ASSEMBLY SCHEDULE													
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location/ Fire Rating	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design	Net Area ⁴ ft ²			
(N) E Wall 10.25x10x15	Nonresidential/Relocatable 1 C2: New	JAA Tables	Exterior wall	Wood 1/2" gyp 16" OC 2x8	30	0	U-factor	0.059	per JAA per Software/ Other	0.056	181.4		
(N) E Wall 10x10x15	Nonresidential/Relocatable 1 C2: New	JAA Tables	Exterior wall	Wood 1/2" gyp 16" OC 2x8	30	0	U-factor	0.059	per JAA per Software/ Other	0.056	60.6		
(N) S Wall 9.5x10x25	Nonresidential/Relocatable 1 C2: New	JAA Tables	Exterior wall	Wood 1/2" gyp 16" OC 2x8	30	0	U-factor	0.059	per JAA per Software/ Other	0.056	194		
(N) N Wall 6.5x17x5	Nonresidential/Relocatable 1 C2: New	JAA Tables	Exterior wall	Wood 1/2" gyp 16" OC 2x8	30	0	U-factor	0.059	per JAA per Software/ Other	0.056	115.2		

FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal framed walls may not be combined with other wall types. Wood framed walls are combined with SIPs, spandrel & curtain, metal panel and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.
If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per 141.0(b)(18).
Wall area minus any fenestration area

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Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

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Project Name: Indian Springs HS Wellness Center

Report Page: (Page 10 of 12)

Date Prepared: 8/29/2025

K. FENESTRATION AND GLAZED DOOR SCHEDULE						
Overhang Details for RSHGC per 140.3/170.2						
26	27	28	29	30	31	32
SHGC of Window	0.26					RSHGC
0.26						0.26
FOOTNOTES: If any individual fenestration product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations. Area-weighted calculation shown in separate area-weighted table below. The ASHRAE Default Calculation can only be used for alterations or dwelling units in buildings with <= 3 habitable stories. Alterations are limited to 200ft ² of site-built glazing and dwelling units are limited to 200ft ² or 2% of conditioned floor area. If the fenestration does not meet these conditions, the only option for determining fenestration values per NFRC Certification or the Default Tables in 110.6. Overhangs must extend past the left and right window the same distance as the depth of the overhang or greater to show an effect on the RSHGC. If an overhang does not meet this requirement, the effect of the overhang will be ignored. Projecting includes casement and awning windows.						
Area-Weighted Average U-factor, SHGC, VT Compliance Calculation for Vertical Fenestration And Glazed Doors						
01		02		03		04
Product Performance Unit		Total Area of Fenestration (ft ²)		Area-weighted Calculation for Fenestration		Compliance Results Using Area-Weighted Calculation Option
U-Factor		554.5		Required		Designed
(RSHGC)		554.5		0.26		0.26
VT		554.5		0.64		0.5

L. DAYLIGHT IN LARGE ENCLOSED SPACES
This section does not apply to this project.

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Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: EnergyPro-4473-0825-4481
Report Generated: 2025-08-29 10:59:35

STATE OF CALIFORNIA

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ENV-4

This document is used to demonstrate compliance with mandatory requirements in 130.8(a) and 120.7(b) for newly constructed nonresidential, hotel/motel, multifamily and mixed-use buildings, and 141.0(b)(1) for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in 140.3/170.2 for newly constructed buildings, and 141.0/180.1/180.2 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.

Project Name: Indian Springs HS Wellness Center

Report Page: (Page 2 of 12)

Date Prepared: 8/29/2025

B. PROJECT SCOPE			
FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration. Roof recovery and replacements must also check "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.			
C. COMPLIANCE RESULTS			
Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.			
Opaque Envelope Components			
Roof Assembly	Roofing Materials	Walls	Floors
Fenestration	Daylighting Spaces > 5,000ft ²	Compliance Results	
01	02	03	04
(See Table F)	(See Table G)	(See Table H)	(See Table I)
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with readable 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. ROOF ASSEMBLY SCHEDULE			
This table demonstrates compliance for prescriptive roof assembly requirements in 140.3(a)(18)/170.2(a)(18) for new construction, 141.0(a)/180.1 for additions, or 141.0(b)(28b)/180.2 for alterations.			
01	02	03	04
Indicate roof types included in the project:	Framed	Frameless	SIPS
	Span Deck & Concrete	Metal Panels	Metal Building
Framed Roof Assemblies			
01	02	03	04
Include Framed Roof Assemblies in Area-Weighted Average U-factor Calculation ¹			
02	03	04	05
			06

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA

Envelope Component Approach

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Project Name: Indian Springs HS Wellness Center

Report Page: (Page 1 of 12)

Date Prepared: 8/29/2025

F. ROOF ASSEMBLY SCHEDULE									
Area-Weighted Average U-factor Compliance Calculation for Framed/ SIPs/ Span Deck & Concrete/ Metal Panel Roofs									
01	02	03	04	05	06	07	08	09	10
Roof Type	Total Area of Roof Type (ft ²)	Area-weighted U-factor for Roof Type		Compliance Results Using Area-Weighted Calculation Option					
Framed	1125.3	Required		Designed					
Total for all Roof Types:	1125.3	0.034		0.029		COMPLIES			

G. RATED ROOFING MATERIAL (COOL ROOF)									
This table demonstrates compliance with prescriptive roof material requirements in 140.3(a)(1A)/170.2(a)(1A) for new construction, 141.0(a)/180.1 for additions, and 141.0(b)(28b)/180.2 for alterations. Roof recovery and replacements must also document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.									
01	02	03	04	05	06	07	08	09	10
Tag/Plan Detail ID	Name/ Location	Occupancy Type	Roof Slope	Roof Material	Compliance Method	Required Minimum Material Performance	Designed Material Performance	U-factor / R-value of Assembly	
R-38 Roof No Attic	(N) Roof	Altered	Nonresidential	Low slope	To Be Determined	Aged solar reflectance and thermal emittance	Reflectance: 0.69 Emittance: 0.75 SRI	Reflectance: 0.63 Emittance: 0.85 SRI	

H. WALL ASSEMBLY SCHEDULE									
This table demonstrates compliance with prescriptive wall assembly requirements in 140.3(a)/170.2(a) for new constructions, 141.0(a)/180.1 for additions and 141.0(b)(18)/180.2 for alterations.									
01	Indicate wall types included in the project:								
	☐ Framed	☐ Mass (new only)	☐ Concrete Sandwich Panel (new only)	☐ SIPS	☐ CT (new only)				
	☐ Metal Building	☐ Metal Panel	☐ Spandrel/ Curtain Wall	☐ Straw Bale	☐ Log Home (new only)				
FOOTNOTES: Wall types indicated above as "new only" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be checked above and compliance demonstrated within this table.									
Framed Walls									
01	☐	Calculate Area-Weighted Average U-factor for Metal Framed Walls ¹							

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
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Report Generated: 2025-08-29 10:59:35

STATE OF CALIFORNIA

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ENV-4

This document is used to demonstrate compliance with mandatory requirements in 130.8(a) and 120.7(b) for newly constructed nonresidential, hotel/motel, multifamily and mixed-use buildings, and 141.0(b)(1) for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in 140.3/170.2 for newly constructed buildings, and 141.0/180.1/180.2 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.

Project Name: Indian Springs HS Wellness Center

Report Page: (Page 8 of 12)

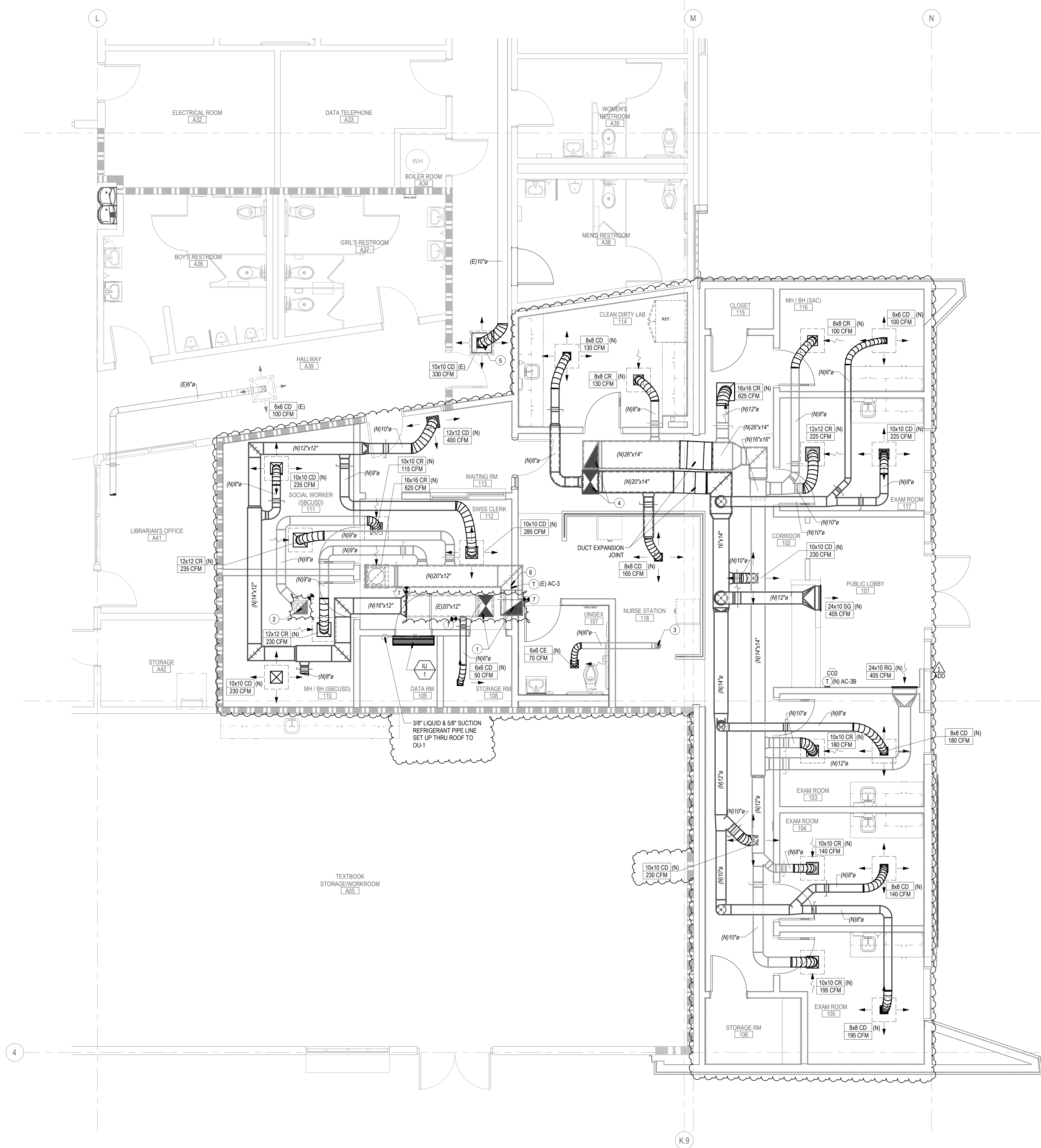
Date Prepared: 8/29/2025

H. WALL ASSEMBLY SCHEDULE					
Area-Weighted Average U-factor Compliance Calculation for Wood Framed/ SIPs/ Spandrel/ Curtain/ Metal Panel/ Straw Bale Wall Types					
01	02	03	04	05	
Wall Type	Total Area of Wall Type (ft²)	Area-weighted U-factor for Wall Type		Compliance Results Using Area-Weighted Calculation Option	
		Required	Designed		
Framed	1470.9	0.059	0.056		
Total for all Wall Types:	1470.9	0.059	0.056	COMPLIES	

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	DATE:		REV
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	DATE:		CCD
	DATE:		REV
	DATE:		REV



MECHANICAL REMODEL FLOOR PLAN

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

1

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INDIAN SPRINGS HIGH SCHOOL
650 N DEL ROSA DR, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

MECHANICAL REMODEL FLOOR PLAN

M1-1.1

412 E. Vanderbilt Way
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Email: cadd@designwesting.com

DESIGN WEST ENGINEERING
MECHANICAL - ELECTRICAL - ENERGY CONSULTANTS

RUHNAU CLARKE ARCHITECTS

- ### GENERAL NOTES
- FOR LINE TYPES, SYMBOLS & ABBREVIATIONS SEE LEGEND ON SHEET MD-1.0.
 - SPIN-IN OR TAP TYPE DUCT CONNECTIONS SHALL BE PROVIDED WITH AN EXTRACTOR.
 - T-STATS SHALL NOT BE MOUNTED IN DIRECT LINE OF ANY SUPPLY DIFFUSER OR NEAR ANY HEAT REJECTION EQUIPMENT.
 - DUCT DIMENSIONS ARE NET INSIDE CLEAR.
 - NEW DUCTWORK SHALL BE HARD DUCT. FLEX DUCT MAY BE USED ONLY AT SUPPLY & RETURN OUTLETS AT A MAX. LENGTH OF 5'-0".
 - NEW DUCTWORK SHALL BE MOUNTED HIGH AND TIGHT TO ROOF STRUCTURE AS POSSIBLE.
 - PROVIDE 1" ACoustICAL LINING IN NEW DUCTWORK WITHIN 10 FEET OF ALL AIR MOVING EQUIPMENT.
 - THERMOSTATS SHALL BE PROGRAMMED TO RUN IN FAN MODE DURING OCCUPIED HOURS AND SHALL COORDINATE HOURS WITH OWNER. COOLING/HEATING MODE SHALL RUN AS NEEDED, PER TEMPERATURE SET POINT AND OCCUPANT LOAD.
 - CONTRACTOR SHALL COORDINATE DUCT RUNS WITH FIRE SPRINKLER CONTRACTOR.
 - RESTROOM & STORAGE DOOR SHALL HAVE A 1" UNDERCUT.
 - FOR AIR DEVICE MOUNTING, SEE DETAILS
 - FOR DUCT SUPPORT, SEE DETAILS
 - FOR THERMOSTAT MOUNTING, SEE DETAIL
 - FOR DUCT EXPANSION JOINT AT SEISMIC SEPARATION, SEE DETAIL
 - FOR REFRIGERANT PIPE SUPPORT, SEE DETAILS
 - FOR REFRIGERANT PIPE THRU ROOF, SEE DETAIL

- ### CONSTRUCTION NOTES
- EXISTING 20x12 SUPPLY & RETURN DUCTS UP THRU ROOF TO EXISTING AC UNIT ON ROOF.
 - CONNECT NEW 9\"/>

RATED ASSEMBLY LEGEND

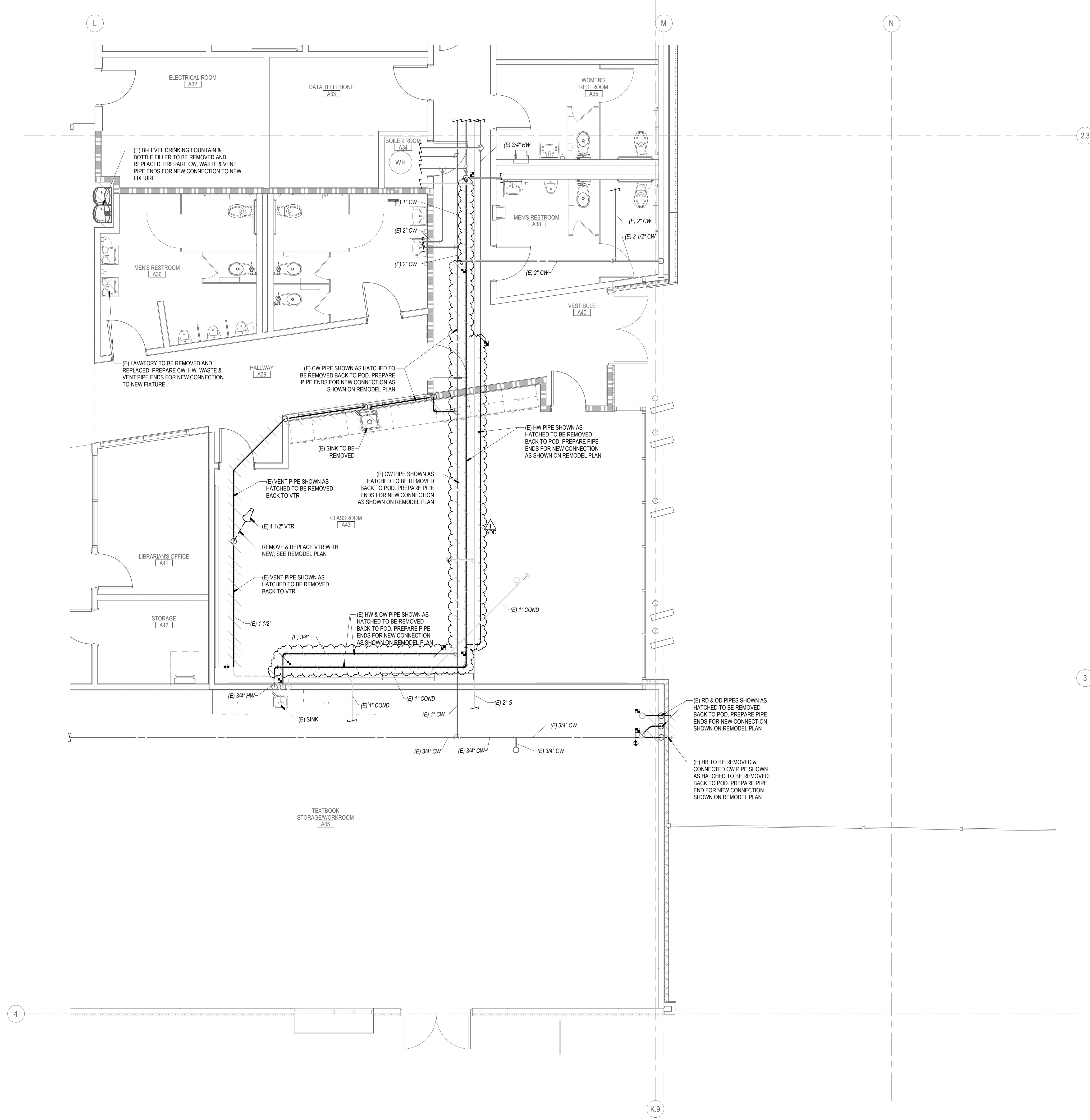
1-HR FIRE RATED WALL ASSEMBLY



NOTE: FOR CURB ATTACHMENT TO ROOF, SEE DETAIL 

CONSULTANT BRANDING

1
ADD



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FID No: *****

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GENERAL NOTES

- FOR LINE TYPES, SYMBOLS & ABBREVIATIONS SEE LEGEND ON P0-1.0.
- PRIOR TO CONSTRUCTION CONTRACTOR SHALL FIELD VERIFY FOR EXACT SIZE, LOCATION & INVERT ELEVATIONS OF EXISTING COLD WATER, HOT WATER & GAS PIPES. COORDINATE WITH PLUMBING ENGINEER FOR ANY CHANGES NEEDED.

RATED ASSEMBLY LEGEND

1-HR FIRE RATED WALL ASSEMBLY

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DELTA #		ADD	☐
DATE		REV	☐
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PLUMBING DEMOLITION FLOOR PLAN

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INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER

INDIAN SPRINGS HIGH SCHOOL
650 N DEL ROSA DR, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

PLUMBING DEMOLITION FLOOR PLAN

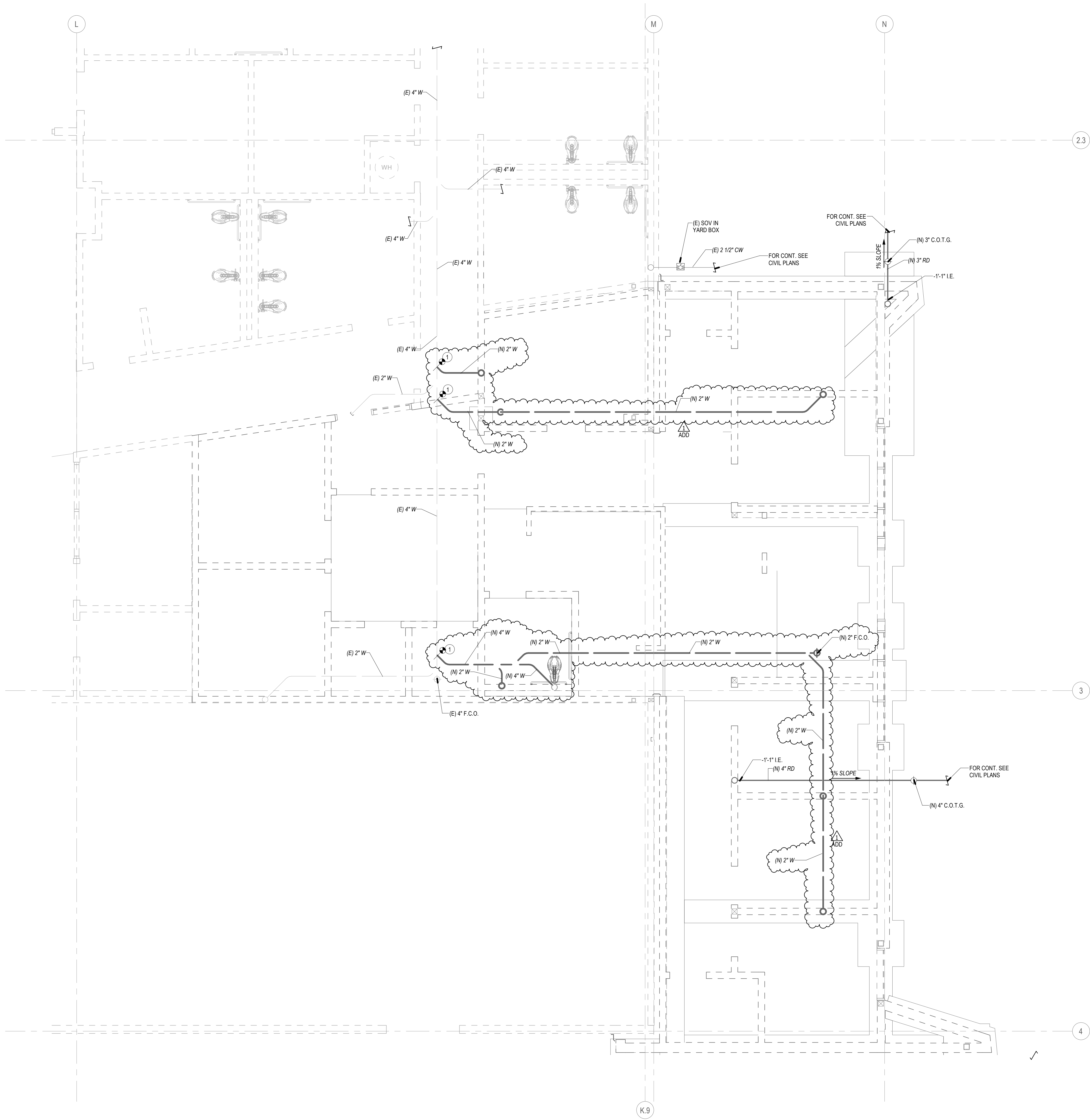
P1-1.1

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

1

INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER:

24-094



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San Bernardino, CA 92408
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Email: cadd@designwesteng.com

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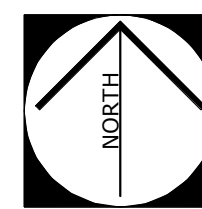
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ARCHITECTS

GENERAL NOTES

- FOR LINE TYPES, SYMBOLS & ABBREVIATIONS SEE LEGEND ON PG-1.0.
- PRIOR TO CONSTRUCTION CONTRACTOR SHALL FIELD VERIFY FOR EXACT SIZE, LOCATION & INVERT ELEVATION OF EXISTING WASTE LINE & COORDINATE WITH PLUMBING ENGINEER FOR ANY CHANGES NEEDED.
- FOR ROOF DRAIN TERMINATION, SEE DETAIL  (4) VD-1.1.
- FOR CLEAN OUT, SEE DETAIL  (5) VD-1.1.

CONSTRUCTION NOTES

- CONNECT NEW PIPE TO EXISTING PIPE AT P.O.C. FIELD VERIFY FOR EXACT LOCATION OF CONNECTION.



PLUMBING REMODEL FOUNDATION PLAN

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

1

PROJECT No. :
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DELTA #		ADD	☐
DELTA #		ADD	☐

APR	☐	CCD	☐	REV
APR	☐	CCD	☐	REV
APR	☐	CCD	☐	REV
APR	☐	CCD	☐	REV

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INDIAN SPRINGS HIGH SCHOOL HEALTH
CENTER

INDIAN SPRINGS HIGH SCHOOL
650 N DEL ROSA DR, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

PLUMBING REMODEL
FOUNDATION PLAN

P1-2.0

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PLUMBING ROOF PLAN

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

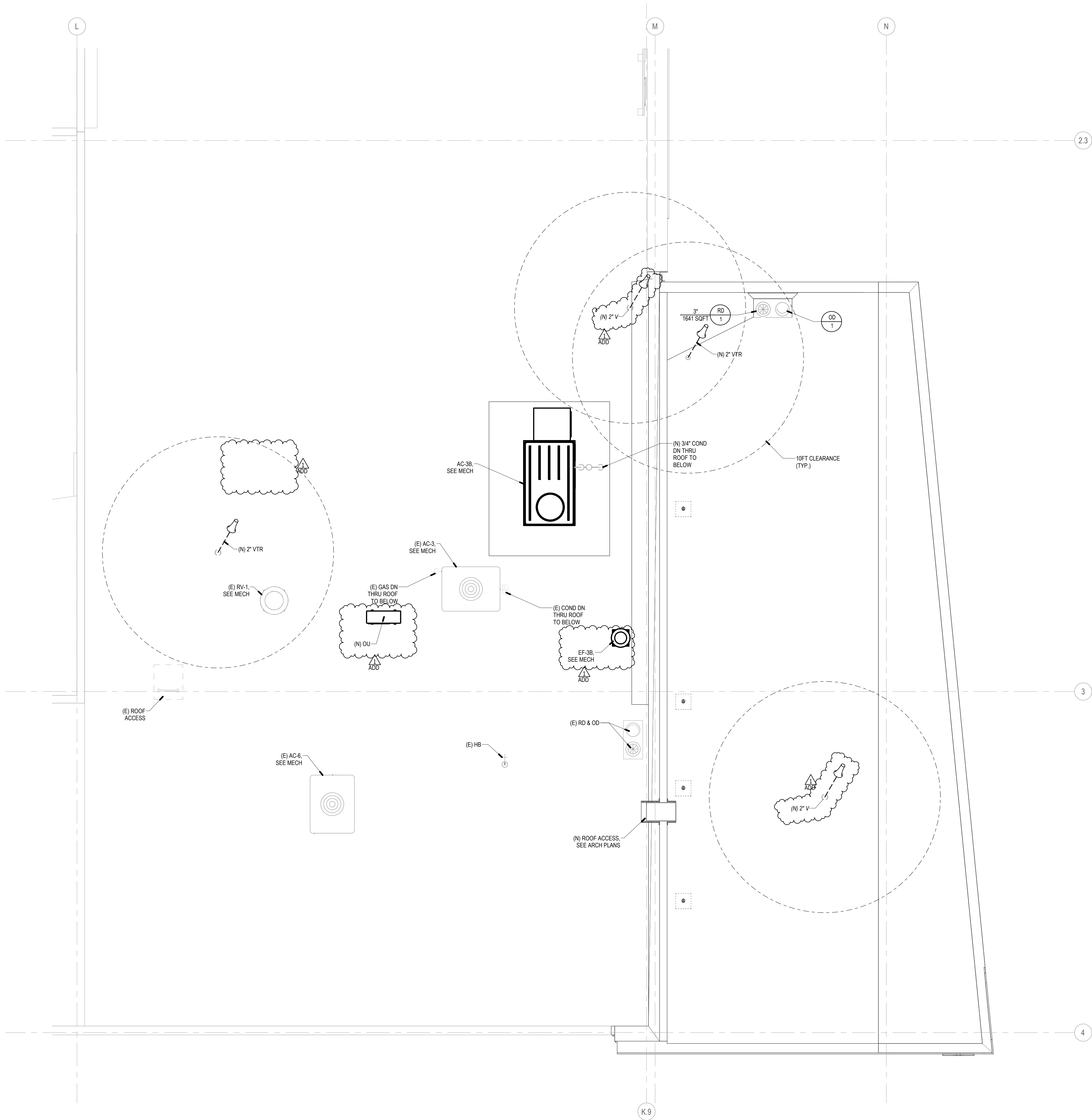
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INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER

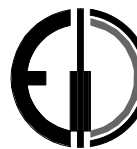
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PLUMBING ROOF PLAN

P1-2.3



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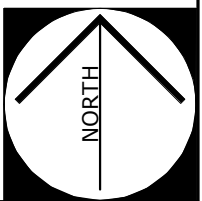
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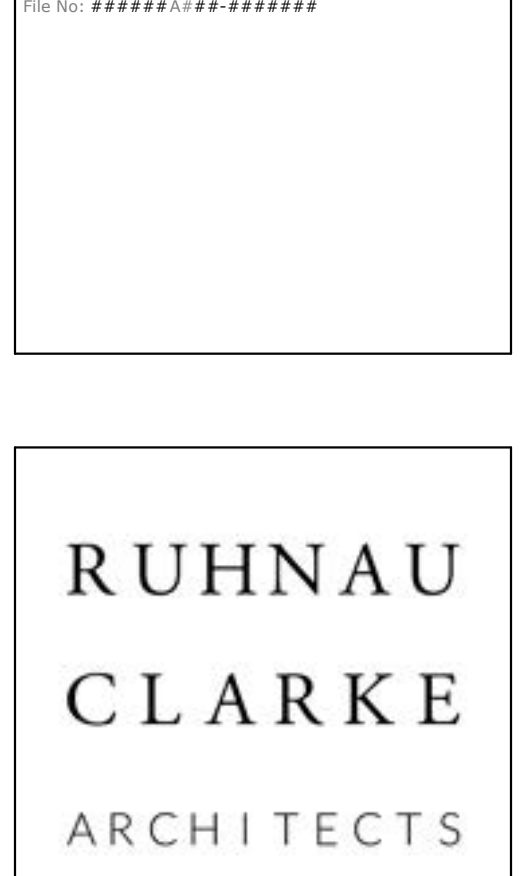
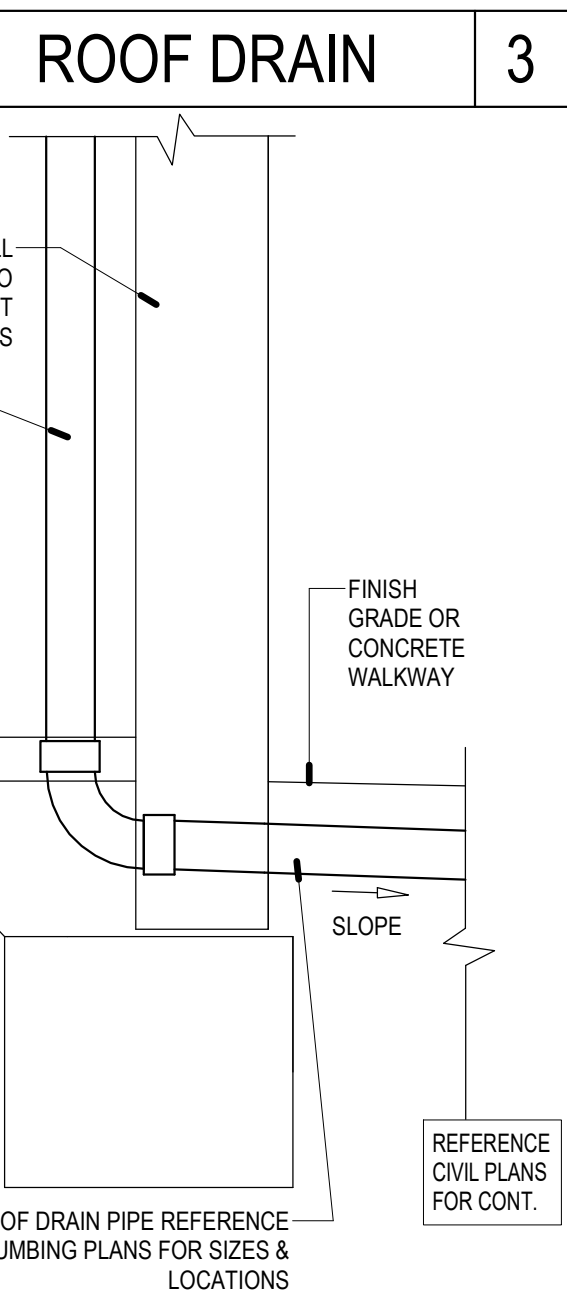
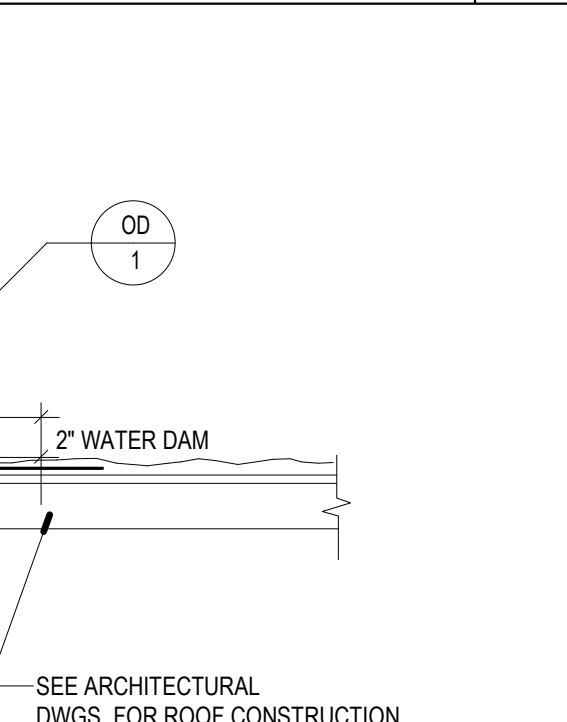
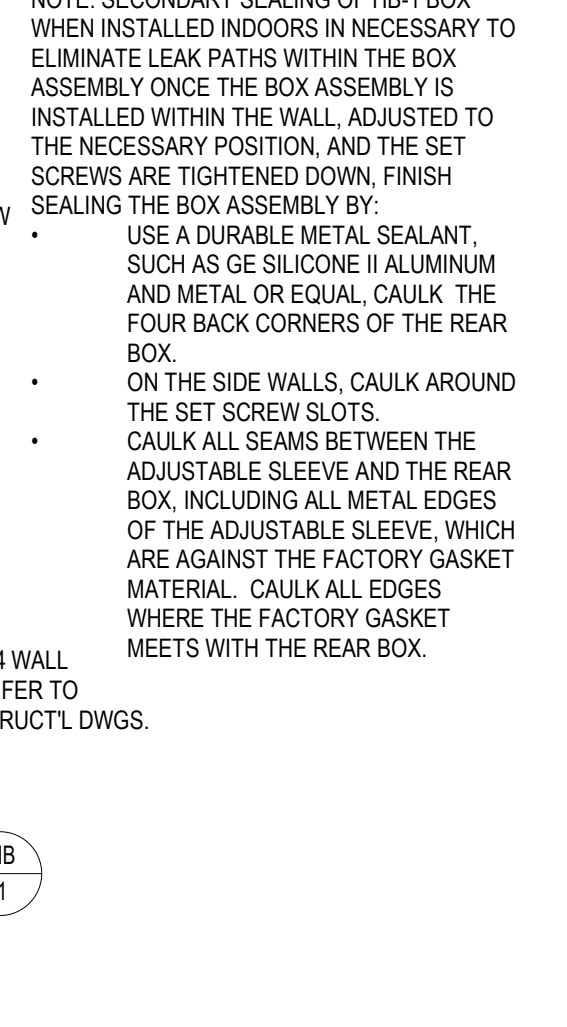
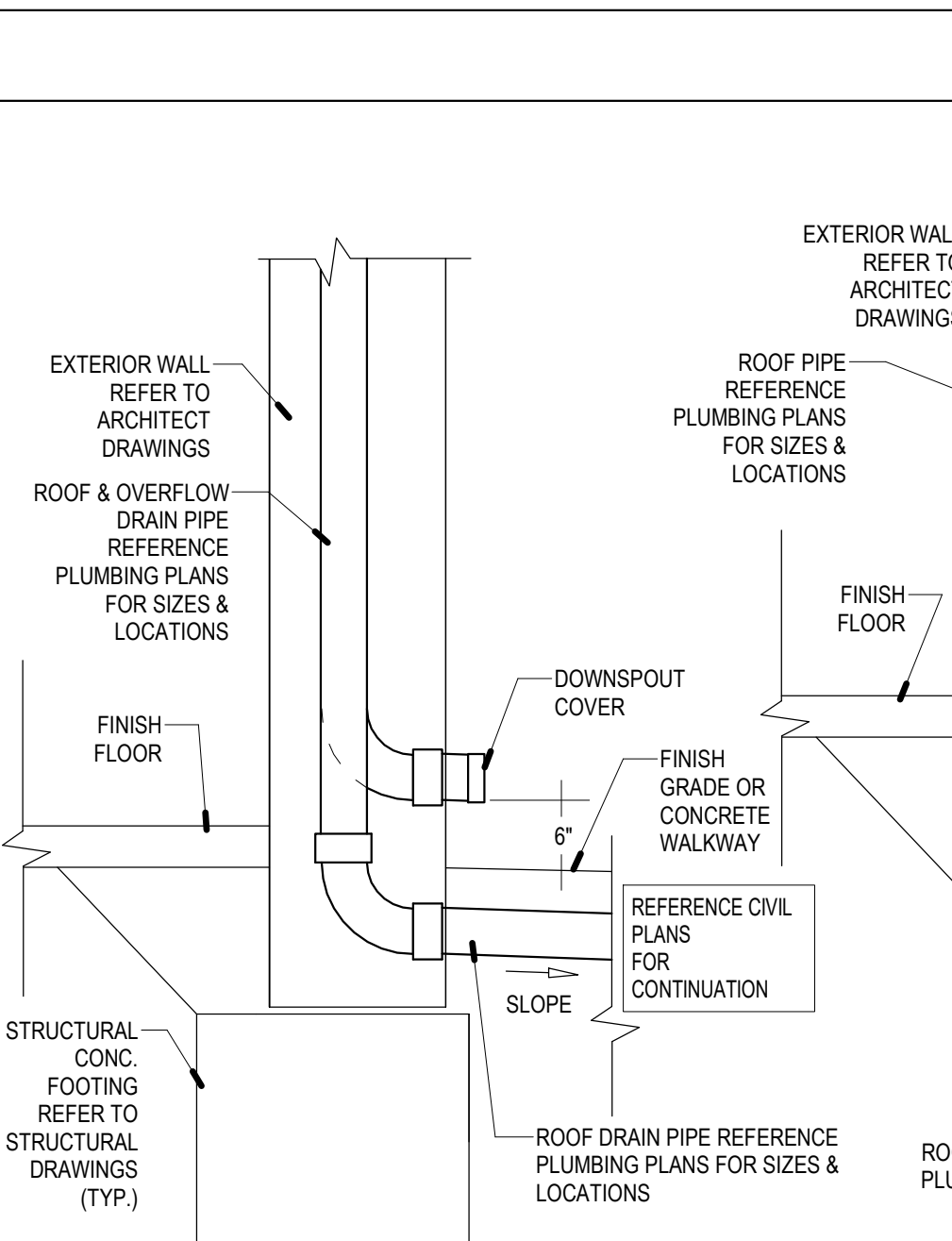
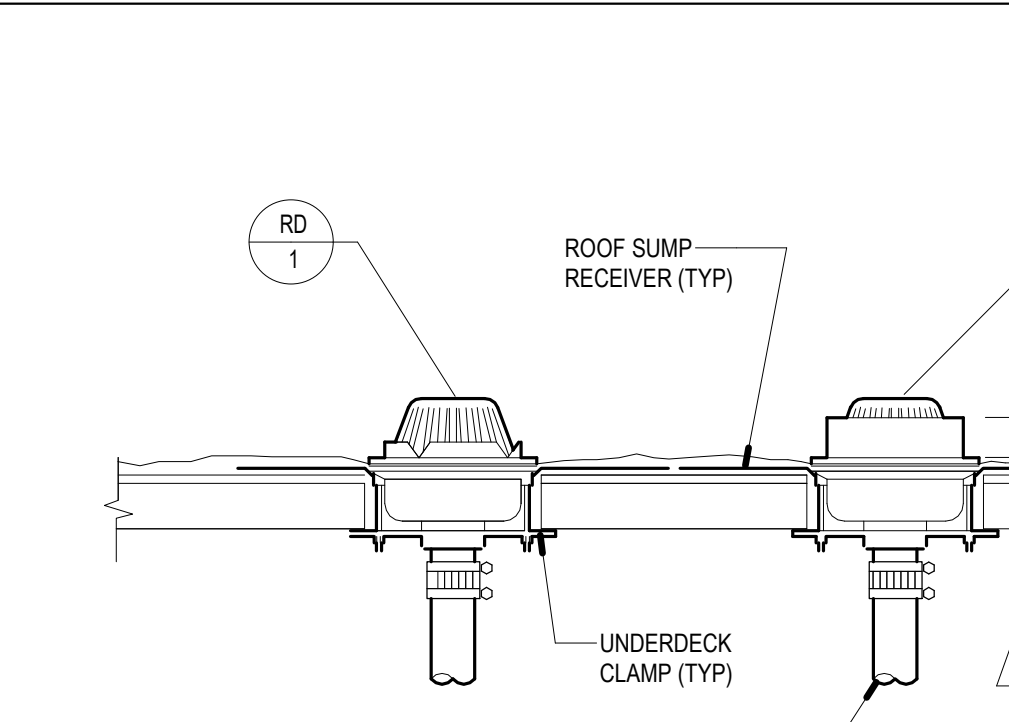
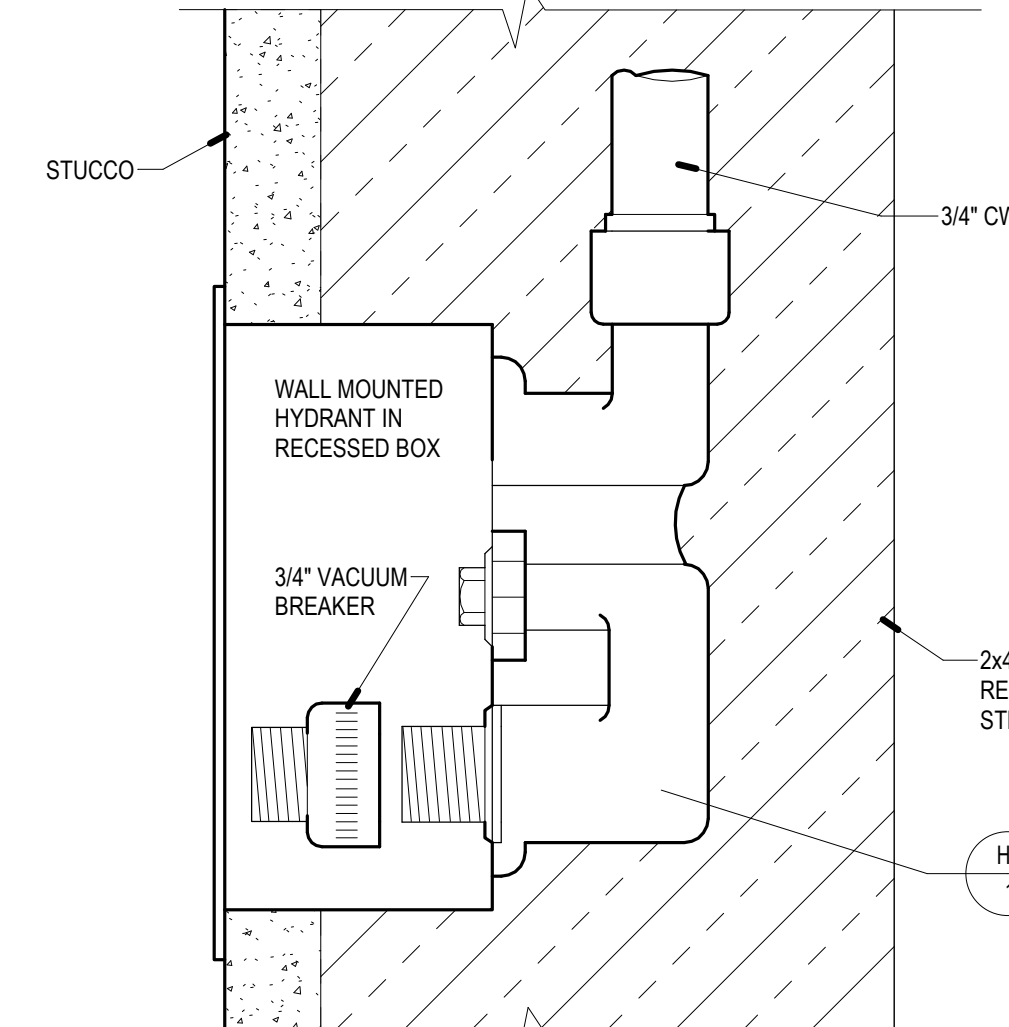
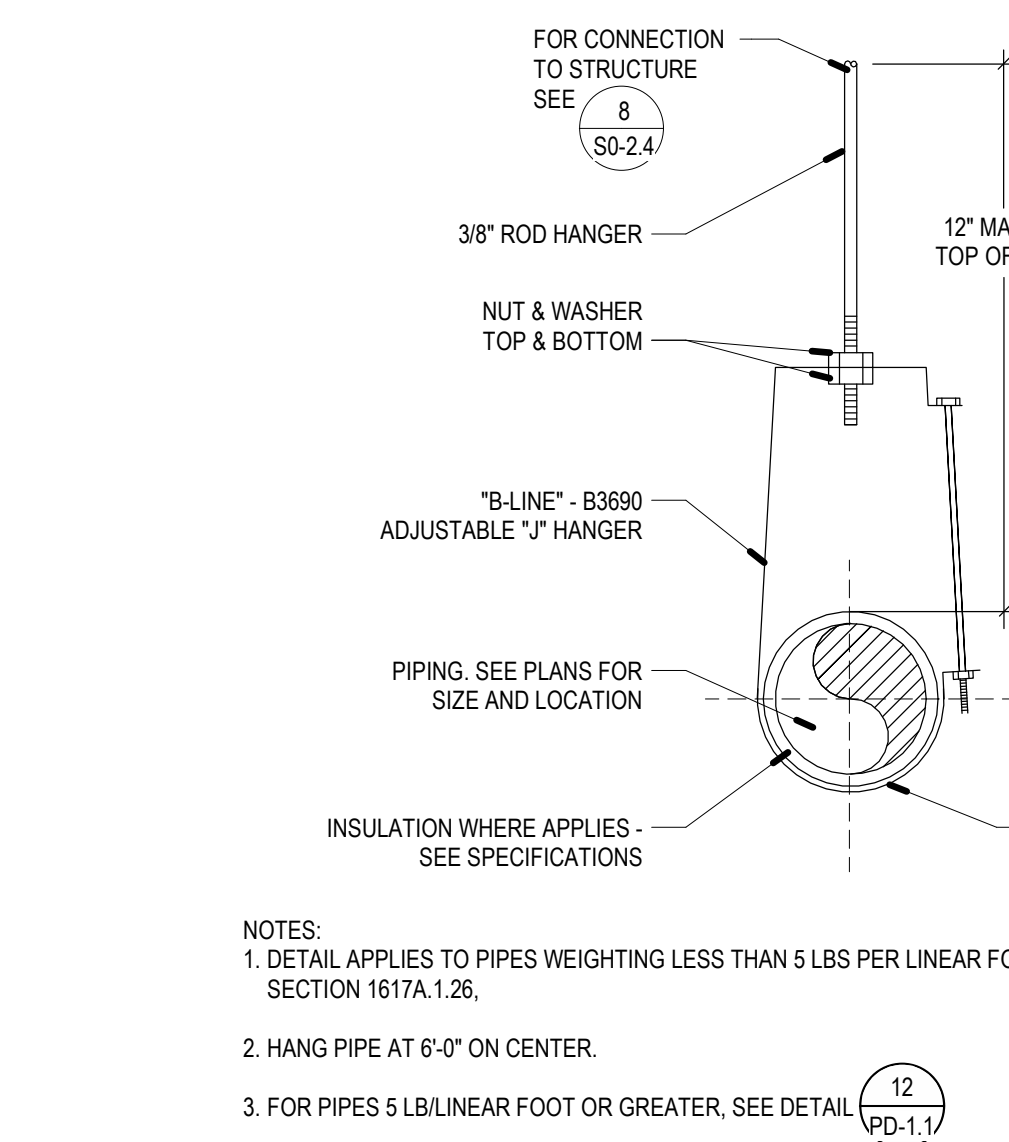
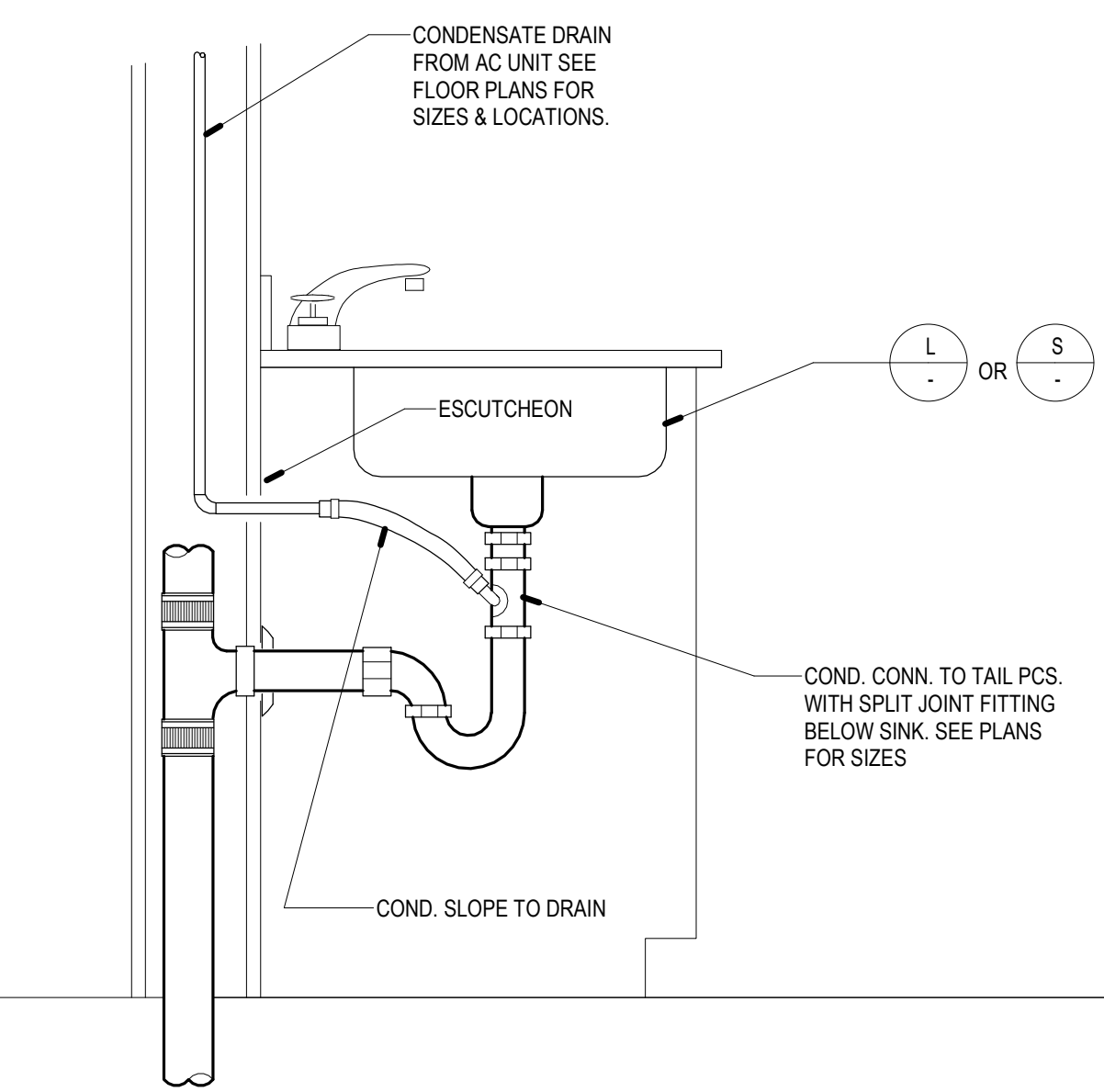
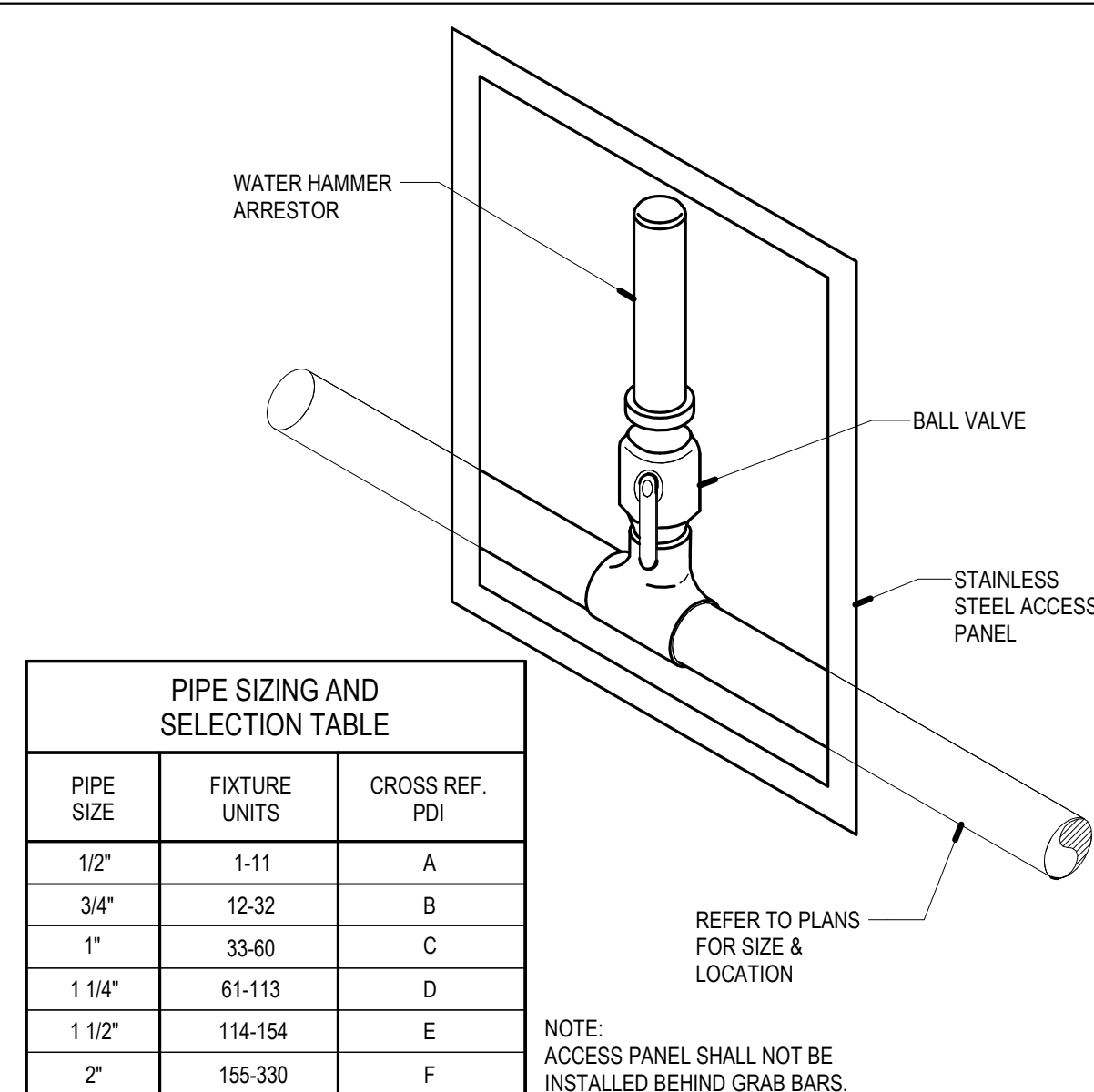
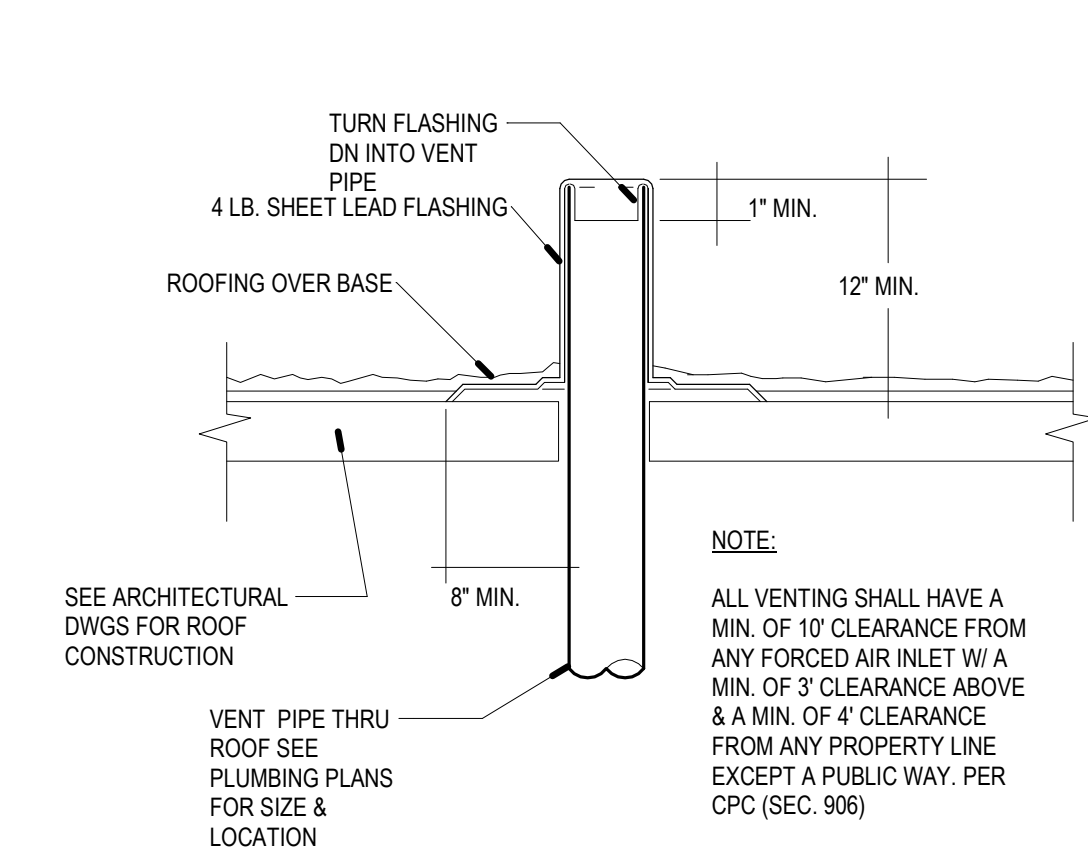
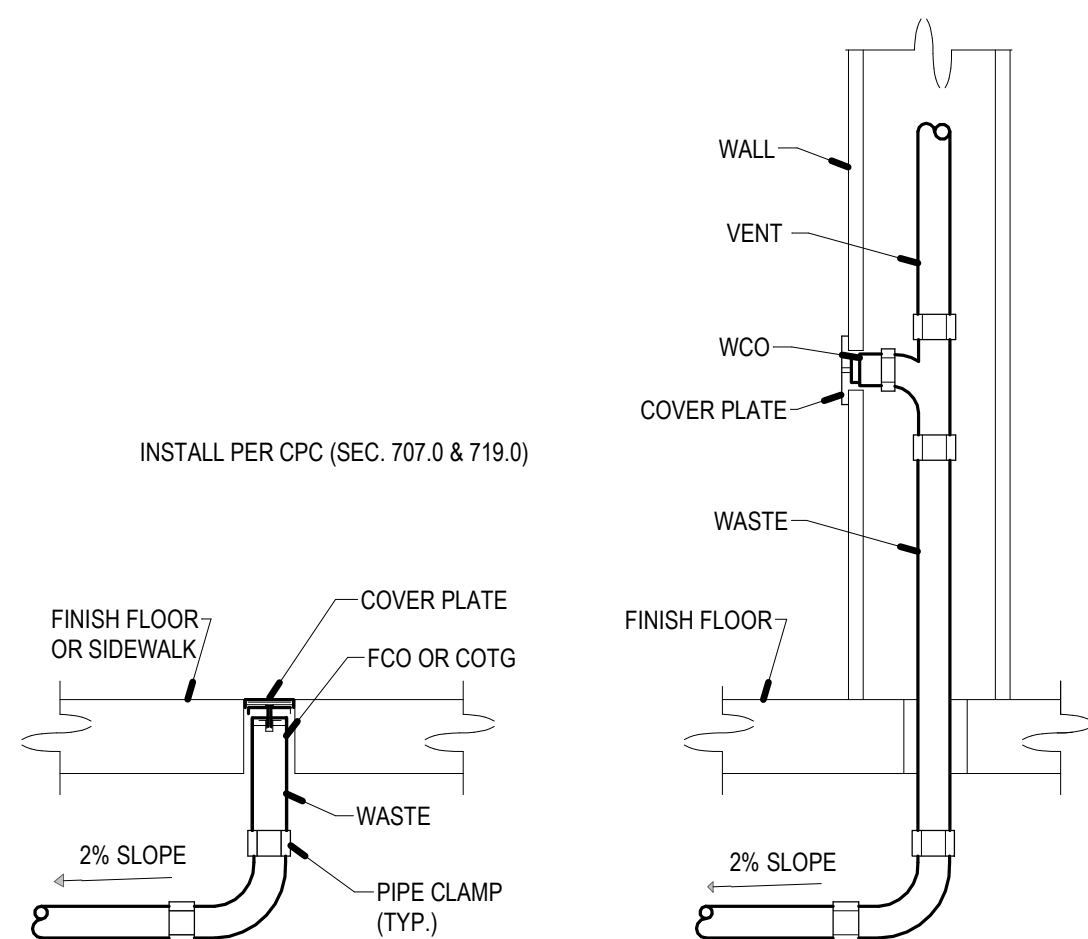
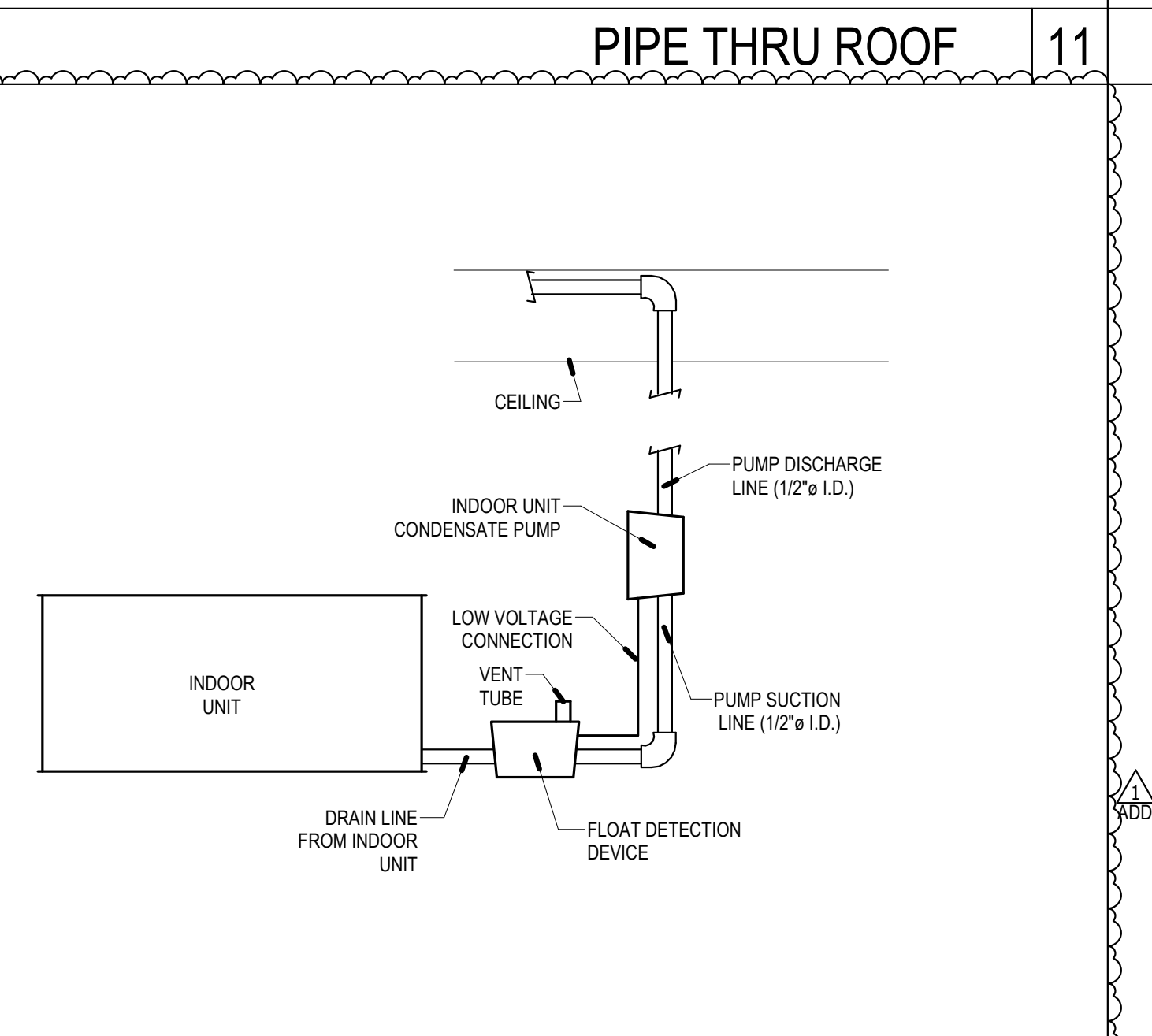
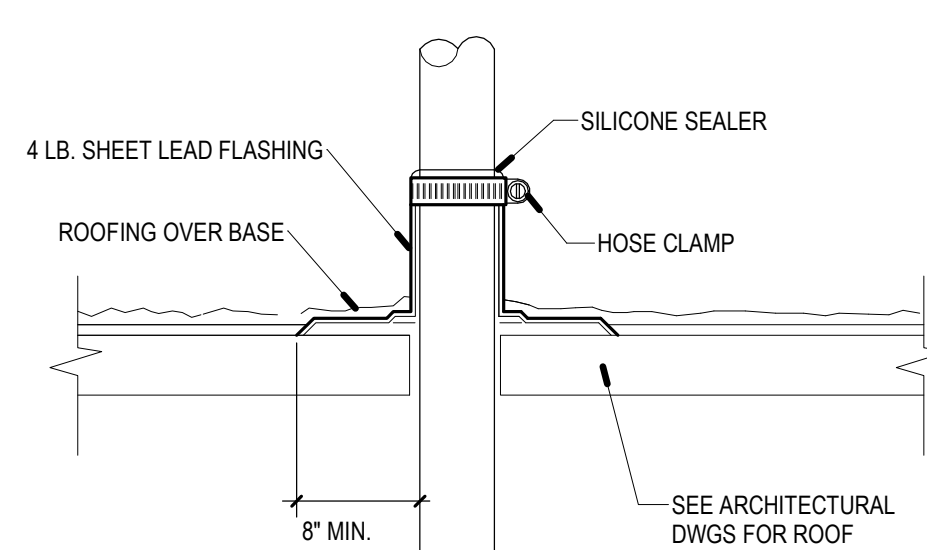
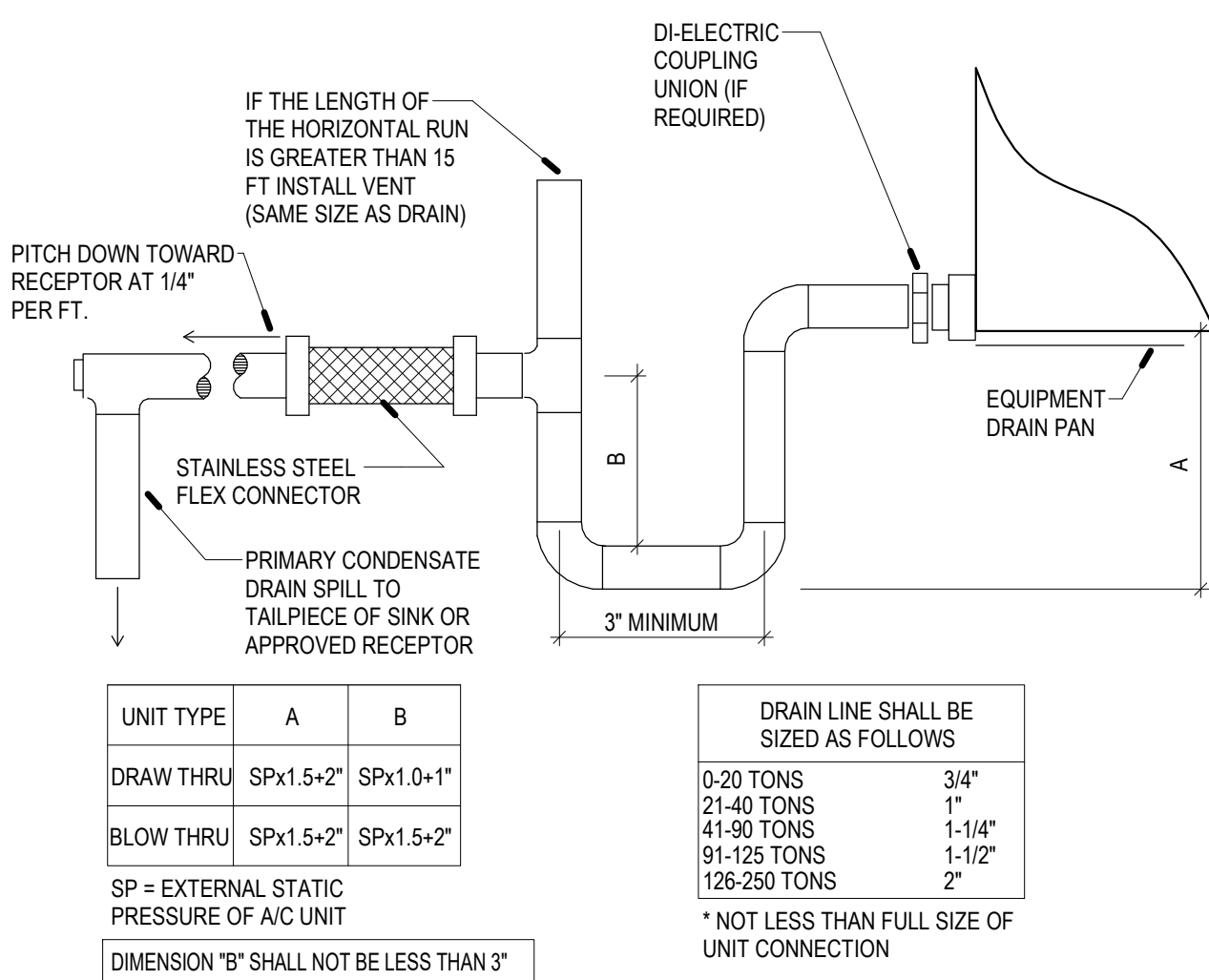
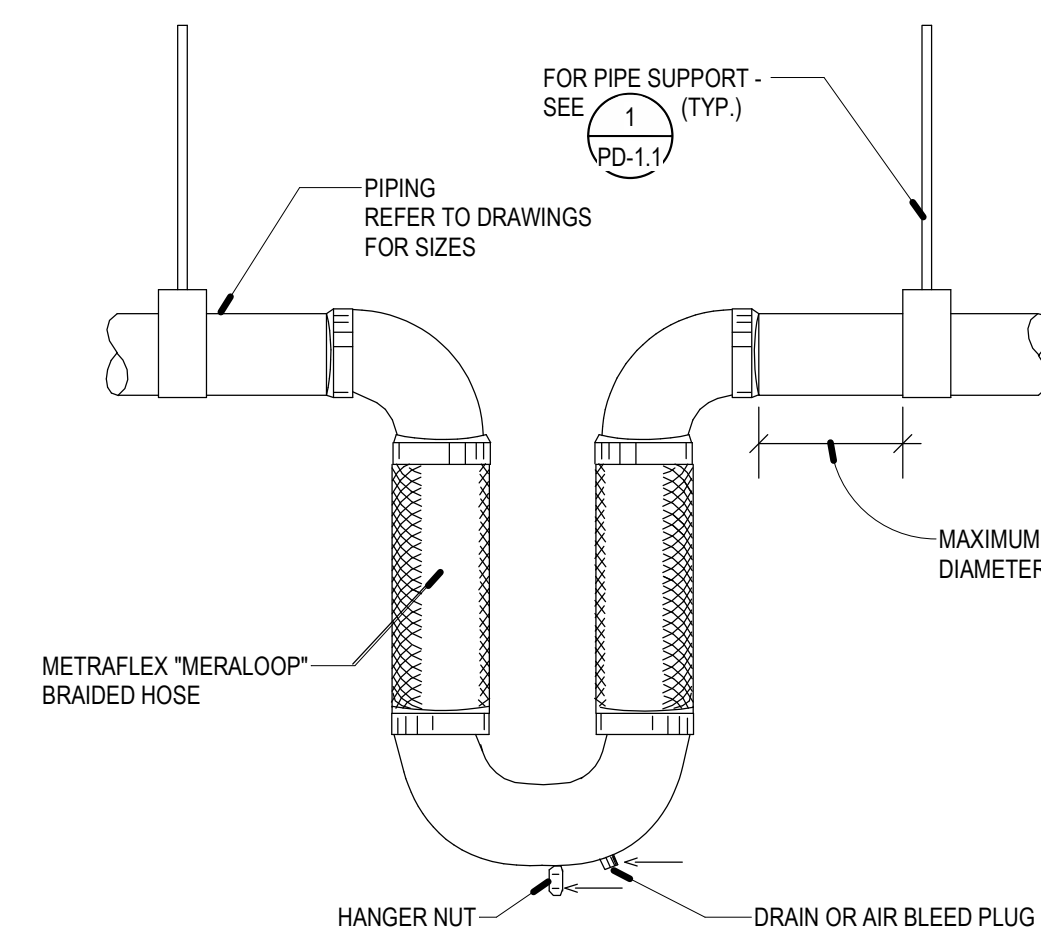
GENERAL NOTES

- FOR LINE TYPES, SYMBOLS & ABBREVIATIONS SEE LEGEND ON PG-1.0.
- ALL VENTING SHALL HAVE A MIN. OF 10' CLEARANCE FROM ANY FORCED AIR INLET W/ A MIN. OF 3' CLEARANCE ABOVE & A MIN. OF 4' CLEARANCE FROM ANY PROPERTY LINE EXCEPT A PUBLIC WAY PER CPC SEC. 906.
- ROOF DRAIN & PIPES ARE BASED ON TABLE 1103.2 @ 3" OF RAIN FALL PER HOUR W/ 1/8" PIPE SLOPE.
- FOR ROOF DRAIN, SEE DETAIL
- FOR VENT THRU ROOF, SEE DETAIL
- FOR CONDENSATE CONNECTION, SEE DETAIL
- FOR PIPE THRU ROOF, SEE DETAIL



INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER:

NOTES:
1. PIPE SUPPORT @ 8'-0" MAX O.C.
2. PIPE TRAVERSE CABLE BRACING @ 20'-0" MAX O.C.
3. PIPE LONGITUDINAL CABLE BRACING @ 20'-0" MAX O.C.



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9/10/2025 1:38:25 PM

DRAWN BY: J.M./ST

DELTA # 1 DATE 09/05/25

ADD

NO

NO

NO

CHKD BY: B.K.

DELTA # 1 DATE 09/05/25

ADD

NO

NO

NO

REV

REV

REV

REV

LUMINAIRE SCHEDULE								
TYPE	VOLTS	WATTAGE	LAMPS	MOUNTING	FIXTURE DESCRIPTION	MFR.	CATALOG #	NOTES
F1	277 V	15 W	LED 3500K 2,241 LUMENS	RECESSED	2X2 LAY-IN FIXTURE WITH CENTER ELEMENT	LITHONIA	STAK-2X2-200LM-90CRI-35K-C OL-MINI-ZT-277-SLD-NLTAIR2	
F1E	277 V	15 W	LED 3500K 2,241 LUMENS	RECESSED	2X2 LAY-IN FIXTURE WITH CENTER ELEMENT AND CONNECTED TO LIGHTING INVERTER FOR EMERGENCY EGRESS	LITHONIA	STAK-2X2-200LM-90CRI-35K-C OL-MINI-ZT-277-SLD-NLTAIR2	
F2A	277 V	19 W	LED 3000K 1,500 LUMENS	RECESSED	RECESSED 2" LED DOWNLIGHT WITH 0-10V DIMMING BALLAST.	GOHAM LIGHTING	EV02-35/15-AR-LS5-MWD-MVOL T-UG2-NLTAIR2	
F2AE	277 V	19 W	LED 3000K 1,500 LUMENS	RECESSED	RECESSED 2" LED DOWNLIGHT WITH 0-10V DIMMING BALLAST AND CONNECTED TO LIGHTING INVERTER FOR EMERGENCY EGRESS	GOHAM LIGHTING	EV02-35/15-AR-LS5-MWD-MVOL T-UG2-NLTAIR2	
F2B	277 V	28 W	LED 3000K 2,094 LUMENS	RECESSED	RECESSED 2" LED DOWNLIGHT WITH 0-10V DIMMING BALLAST.	GOHAM LIGHTING	EV02-35/20-AR-LS5-MWD-MVOL T-UG2-NLTAIR2	
F2BE	277 V	28 W	LED 3000K 2,094 LUMENS	RECESSED	RECESSED 2" LED DOWNLIGHT WITH 0-10V DIMMING BALLAST AND CONNECTED TO LIGHTING INVERTER FOR EMERGENCY EGRESS	GOHAM LIGHTING	EV02-35/20-AR-LS5-MWD-MVOL T-UG2-NLTAIR2	
F3	277 V	26 W	LED 4000K 5,000 LUMENS	PENDANT	4" STRIP FIXTURE WITH WHITE FINISH, 0-10V DIMMING DRIVER AND MOUNTED WITH AIRCRAFT CABLES	LITHONIA	CLX-48-5000LM-SEF-VOL-LM-V OLT-G21-40K-80CRI-WH-ZACHV 1-MVU CLUCD-400K-55-50-4-W-277- DP-1-DS	BOTTOM OF FIXTURE MOUNTED AT 10'-0"
F4	277 V	16 W	LED 3500K 1,584 LUMENS	RECESSED	RECESSED LINEAR LUMINAIRE WITH WHITE TRIM.	AXIS LIGHTING		
F5	277 V	55 W	LED 3000K 4,800 LUMENS	PENDANT	3" BEAM PENDANT FIXTURE IN X-PATTERN, WITH ALUMINUM PAINTED FINISH, AIRCRAFT CABLE SUSPENSION AND 0-10V DIMMER.	AXIS LIGHTING	TB3DLEDPAT-X4XW6X2Y2-OP R45-300-300-90-35-50-SC-NL AP-277-DP-1-CA36Y-D	VERIFY PATTERN PRIOR TO ORDERING. BOTTOM OF FIXTURE MOUNTING AT 10'-0".
F6A	277 V	26 W	LED 3000K 3,488 LUMENS	RECESSED	RECESSED LINEAR LUMINAIRE WITH WHITE TRIM.	CORONET	LS1-8-35-LOW-UNV-DB-W-SMT B9-FL-ACM-NA	VERIFY MOUNTING PRIOR TO ORDERING. MAY BE ORDERED AS A CONTINUOUS RUN.
F6AE	277 V	26 W	LED 3000K 3,488 LUMENS	RECESSED	RECESSED LINEAR LUMINAIRE WITH WHITE TRIM AND CONNECTED TO LIGHTING INVERTER FOR EMERGENCY EGRESS	CORONET	LS1-8-35-LOW-UNV-DB-W-SMT B9-FL-ACM-NA	VERIFY MOUNTING PRIOR TO ORDERING. MAY BE ORDERED AS A CONTINUOUS RUN.
F6BE	277 V	32 W	LED 3000K 5,232 LUMENS	RECESSED	RECESSED LINEAR LUMINAIRE WITH WHITE TRIM AND CONNECTED TO LIGHTING INVERTER FOR EMERGENCY EGRESS	CORONET	LS1-12-35-LOW-UNV-DB-W-SM TB9-FL-ACM-NA	VERIFY MOUNTING PRIOR TO ORDERING.
F6C	277 V	21 W	LED 3500K 2,616 LUMENS	RECESSED	RECESSED LINEAR LUMINAIRE WITH WHITE TRIM.	CORONET	LS1-6-35-LOW-UNV-DB-W-SMT B9-FL-ACM-NA	VERIFY MOUNTING PRIOR TO ORDERING.
S1E	277 V	14 W	LED	WALL	MEDIUM WEDGE SCENCE IN STONE FINISH AND CONNECTED TO LIGHTING INVERTER FOR EMERGENCY EGRESS	LIGMAN	LEEDSUL-EW-30011-1AW-T4-W3 0-SU-3120/277V-F-DIM	
S2	277 V	6 W	LED	KNUCKLE	KNUCKLE MOUNT SIGN LIGHT IN BLACK FINISH, SOFT GLARE LENS AND WITH 45 DEGREE HOOD.	HYDREL	SAF-1-LED-P1-80CRI-30K-MVOL T-70DEG-CWL-KM-MOUNT-L3-2 T-C3-BL	
S3	277 V	208 W	LED	POLE TOP	ARCHITECTUAL POLE TOP SHOEBOX-TYPE FIXTURE ON 25' POLE	VISIONAIRE LIGHTING	PGS-3-T4-128LC-5-4K-UNV-UBO 4-WH-PDS-277 POLE SNTS-55-7-25-128C-136-S1-WH	

LUMINAIRE NOTES

- EQUALS SHALL BE CONSIDERED UPON SUBMITTAL REVIEW AND APPROVAL. PLEASE NOTE THAT IF AN ALTERNATE IS CONSIDERED:
 - THE CONTRACTOR IS COMPLETELY AND SOLELY RESPONSIBLE FOR ALL ASPECTS OF THE SUBSTITUTION INCLUDING UPDATING CONSTRUCTION DOCUMENTS, OBTAINING APPROVALS AND PERMITS FROM LOCAL AUTHORITY, AND COORDINATING WITH ALL TRADES TO ENSURE CHANGES TO AFFECTED BUILDING SYSTEM ARE ACCOUNTED FOR AND ACCEPTABLE TO THE ENGINEERING TEAM. CONTRACTOR SHALL ENSURE SUBSTITUTED EQUIPMENT MEETS OR EXCEEDS DESIGN INTENT REGARDING RATINGS, PERFORMANCE, DIMENSIONAL CLEARANCES, PHYSICAL DIMENSIONS (MAXIMUM), WEIGHT LIMITATIONS, AND OTHER ASPECTS. PROVIDING SUBSTITUTION IS SUITABLE TO THE APPLICATION. ENGINEERS WILL REVIEW THE RATING AND PERFORMANCE OF SUBSTITUTED EQUIPMENT ONLY AND WILL NOT ASSUME RESPONSIBILITY FOR SUBSTITUTION AT ANY LEVEL.
 - IF CONTRACTOR CANNOT MAKE SUBSTITUTED EQUIPMENT WORK IN THIS PROJECT, CONTRACTOR SHALL REVERT TO REQUIREMENTS OF PERMITTED CONSTRUCTION DOCUMENTS AT THEIR EXPENSE.
 - IT IS UNDERSTOOD BY ALL PARTIES THAT ANY SUBSTITUTIONS OF SPECIFIED PRODUCTS ARE DONE FOR THE PURPOSE OF COST SAVINGS TO THE OWNER. THEREFORE, ANY MATERIAL SUBSTITUTION OR DEVIATIONS PROPOSED BY THE CONTRACTOR SHALL BE INCLUDED WITH THE INITIAL BID AND SHALL SHOW A LINE ITEMS CREDIT TO THE OWNER FOR EACH SUBSTITUTION IN LIEU OF SPECIFIED PRODUCTS.
 - CONTRACTOR SHALL PROVIDE A POINT BY POINT PHOTOMETRIC STUDY FOR ALL AREAS WHERE ALTERNATE FIXTURES ARE SUBMITTED. LIGHT LEVELS WILL BE REVIEWED FOR COMPLIANCE WITH PROJECT REQUIREMENTS AND BASIS OF DESIGN VALUES.
- THE FIXTURE SCHEDULE INDICATES GENERAL DESCRIPTION OF LIGHTING FIXTURES AND MANUFACTURERS CATALOG NUMBERS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE CORRECT CEILING CONFIGURATION AND PROVIDE THE FIXTURES WITH ALL NECESSARY TRIMS AND MOUNTING HARDWARE SO THAT BOTH THE CEILING SYSTEM AND THE FIXTURE CONSTRUCTION MATCHES. PROVIDE SEISMIC HANGERS AS REQUIRED.
- IT SHALL BE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXACT LOCATION OF ALL LIGHTING FIXTURES AND TYPE OF CEILING WITH ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ANY WORK. SEE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ANY WORK. SEE ARCHITECTURAL ELEVATION DRAWING FOR MOUNTING HEIGHTS OF WALL MOUNTED FIXTURES.
- A JUNCTION BOX MUST BE PROVIDED WITH ALL EXIT LIGHTS CONNECTED TO MORE THAN ONE SET OF CONDUCTORS UNLESS THE EXIT LIGHT FIXTURE IS FURNISHED WITH AN APPROVED OUTLET BOX FOR THROUGH WIRING.
- A COMPLETE TITLE 24 COMPLIANT LIGHTING CONTROL SYSTEM SHALL BE PROVIDED TO CONTROL ALL INTERIOR AND EXTERIOR LIGHTING SYSTEMS. REFER TO LIGHTING CONTROL DIAGRAMS, SCHEDULES AND DETAILS.
- BATTERY PACK EMERGENCY TEST SWITCHES SHALL BE INTEGRAL TO LIGHT FIXTURE. COORDINATION OF SWITCH LOCATION IS REQUIRED WITH DESIGN TEAM IF INTEGRAL INSTALLATION IS NOT POSSIBLE.
- FIXTURES DESIGNATED AS EMERGENCY SHALL BE SUPPLIED WITH INTEGRAL BATTERY PACK CAPABLE OF POWERING TWO T8 LAMPS FOR 90 MINUTES WITH A TOTAL LIGHT OUTPUT OF 1100 LUMENS OR ONE F13 BIAX FOR 90 MINUTES WITH A TOTAL LIGHT OUTPUT OF 520 LUMENS.
- PROVIDE ALL REQUIRED MOUNTING HARDWARE ANCHORAGE AND SUPPORTS TO INSTALL LIGHTING FIXTURES.
- PROVIDE SWIVEL BASE AND STEMS. LENGTHS AS REQUIRED TO MOUNT THE PENDANT MOUNTED FIXTURES. THE INSTALLATION SHALL COMPLY WITH TITLE 24 SEISMIC AND APPLICABLE UBC REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERABLE LIGHTING SYSTEM AS PART OF THIS BUILDING CONTRACT.
- SUSPENSION SYSTEM FOR LIGHT FIXTURES WHICH HAVE PASSED SHAKING TABLE TESTS APPROVED BY THE OFFICE OF THE STATE OF ARCHITECT, OR WHICH, AS INSTALLED, ARE FREE TO SWING A MINIMUM OF 45° FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS, SHALL BE ASSUMED TO COMPLY WITH THE LATERAL FORCE REQUIREMENTS FOR SECTION 2305, PART 2, TITLE 24, CCR, UNLESS OF THE CABLE TYPE FREE SWING SUSPENSION SYSTEM SHALL HAVE A SAFETY WIRE OR CABLE ATTACHED TO THE FIXTURE AND STRUCTURE AT EACH SUPPORT CAPABLE OF SUPPORTING FOUR TIMES THE SUPPORTED LOAD.
- FOR SUSPENDED AND SURFACE MOUNTED LIGHT FIXTURES, THE PRODUCT OF ICP NEED NOT EXCEED 12 FOR ANY VALUE OF 1.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE FIXTURE BALLAST OR DRIVER VOLTAGE MATCHES THE CIRCUIT VOLTAGE SUPPLYING FIXTURE PRIOR TO ORDERING.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY BALLAST/DRIVER DIMMING CONFIGURATION IS COMPATIBLE WITH CONTROLS BEING PROVIDED PRIOR TO ORDERING FIXTURES. EX. 2 WIRE, 3 WIRE, 4 WIRE, 0-10V, CAT 5, ETC.
- LED LIGHT FIXTURES SHALL BE IN ACCORDANCE WITH IES, NFPA, UL, AS SHOWN ON THE DRAWINGS, AND AS SPECIFIED.
- LED LIGHT FIXTURES SHALL BE REDUCTION OF HAZARDOUS SUBSTANCES (RHHS)-COMPLIANT.
- LED DRIVERS SHALL INCLUDE THE FOLLOWING FEATURES UNLESS OTHERWISE INDICATED:
 - MINIMUM EFFICIENCY: 85% AT FULL LOAD.
 - MINIMUM OPERATING AMBIENT TEMPERATURE: -20 DEG C (-4 DEG F).
 - INPUT VOLTAGE: 120 - 277V (+10%), UNLESS OTHERWISE INDICATED.
 - INTEGRAL SHORT CIRCUIT, OPEN CIRCUIT, AND OVERLOAD PROTECTION.
 - POWER FACTOR: >=0.95.
 - TOTAL HARMONIC DISTORTION: <=20%.
 - COMPLY WITH FCC 47 CFR PART 15.
- LED MODULES SHALL INCLUDE THE FOLLOWING FEATURES UNLESS OTHERWISE INDICATED:
 - COMPLY WITH IES LM-79 AND LM-80 REQUIREMENTS.
 - MINIMUM CRI 80 AND COLOR TEMPERATURE 4000K UNLESS OTHERWISE SPECIFIED IN LUMINAIRE SCHEDULE.
 - MINIMUM RATED LIFE: 50,000 HOURS PER IES L70.
 - LIGHT OUTPUT LUMENS AS INDICATED IN THE LUMINAIRE SCHEDULE.
23.

LED DOWNLIGHTS:

 - HOUSING, LED DRIVER, AND LED MODULE SHALL BE PRODUCTS OF THE SAME MANUFACTURER.
24.

LED TROFFERS:

 - LED DRIVERS, MODULES, AND REFLECTOR SHALL BE ACCESSIBLE, SERVICEABLE, AND REPLACEABLE FROM BELOW THE CEILING.
 - HOUSING, LED DRIVER, AND LED MODULE SHALL BE PRODUCTS OF THE SAME MANUFACTURER.
- ALL FIXTURES MOUNTED OUTDOORS SHALL BE LISTED FOR WET LOCATION.
- ALL REMOTE DRIVERS SHALL BE CONCEALED ABOVE CEILING OR PLACED IN A REMOTE LOCATION WHEN ATTIC SPACE IS NOT AVAILABLE.

LIGHTING CONTROLS SEQUENCE OF OPERATIONS					
LIGHT CONTROLS SHALL PERFORM AS FOLLOWS:					
ZONE	DELAY TO OFF (MIN)	ON/OFF METHOD	TECHNOLOGY	DAYLIGHTING	NOTES
RESTROOMS	5	AUTO ON/AUTO OFF	DUAL	N/A	
OFFICE	10	AUTO ON TO 50%MANUAL ON TO 100%AUTO OFF	DUAL	DM TO ALLOW 30 FC ON WORK SURFACE	
CONFERENCE ROOM	15	AUTO ON/AUTO OFF	DUAL	DM TO ALLOW 35 FC ON WORK SURFACE	
NURSES STATION	15	AUTO ON/AUTO OFF	DUAL	N/A	
CORRIDORS	15	TIME CLOCK ON/OFF DIM TO 50% AFTER DELAY	DUAL	DM TO ALLOW 15 FC ON WORK SURFACE	TUNE FOR NOISE, DO NOT LOCATE NEAR AIR VENTS
LOBBY	15	AUTO ON/AUTO OFF	DUAL	DM TO ALLOW 20 FC ON WORK SURFACE	
EXAM ROOM	15	AUTO ON/AUTO OFF	DUAL	DM TO ALLOW 40 FC ON WORK SURFACE	
EXTERIOR LIGHTING	10	PHOTOCELL ON/TIME CLOCK OFF, DIM TO 50% AFTER DELAY	INFRARED	N/A	
NOTE: FOR ZONES WITH PLUG CONTROLLERS, DELAY TO OFF SHALL BE THE SAME AS THE LIGHTING IN THAT ZONE.					

- 1

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INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER
INDIAN SPRINGS HIGH SCHOOL
650 N DEL ROSA DR, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

LUMINAIRE SCHEDULE

E0-0.2

PRINTED: 9/10/2025 1:38:26 PM
Path: BH 260117552_E Wellnes... Center\74-094_SBC\03 15 HS WC New Exp - Redesign- MEP Central_A21.rvt

PROJECT NO. :
9/10/2025 1:38:26 PM

DRAWN BY: J.M./ST
CHECKED BY: [] ADD [] ADO [] CDD [] REV
DATE: 09/05/25
DATE: [] ADO [] ADO [] CDD [] REV
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-LTI-4
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)(2) for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)(4) for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.
Project Name: Indian Springs HS Wellness Center
Report Page: (Page 1 of 9)
Project Address: 1472 East 6th Street
Date Prepared: 9/4/2025

A. GENERAL INFORMATION				
01 Project Location (city)	San Bernardino	04 Total Conditioned Floor Area (ft ²)	2,157	
02 Climate Zone	10	05 Total Unconditioned Floor Area (ft ²)	0	
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1	
• Office • Support Areas • All Other Occupancies				

B. PROJECT SCOPE This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)(2) / 180.2(b)(4) for alterations.				
Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft ²)	Calculation Method	Area (ft ²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	2157	Area Category Method	0
Total Area of Work (ft ²)		2157		0

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Schema Version: rev 20220101
Compliance ID: EnergyPro-4473-0925-4519
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C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.									
Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b) / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(a) (Watts)				Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results	
	01	02	03	04	05	06	07	08	09
	Complete Building 140.6(c)(1)	Area Category 140.6(c)(2) / 170.2(e)(4)	Area Category Additional 140.6(c)(3) / 170.2(e)(4)(a)	Tailored 140.6(c)(3) / 170.2(e)(4)(b) (+)	Total Allowed (Watts)	Total Designed 140.6(a)(2) / 170.2(e)(1)(b) (-)	PAF Lighting Control Credits 140.6(a)(2) / 170.2(e)(1)(b) (-)	Total Adjusted (Watts) *Includes Adjustments	
	(See Table I)	(See Table I)	(See Table J)	(See Table K)		(See Table F)	(See Table P)		
	Conditioned	1,277.8	0		= 1,278	≥ 1,271	0	= 1271	COMPLIES
Unconditioned					=	≥		=	COMPLIES
Controls Compliance (See Table H for Details)									COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)									

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

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

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F. INDOOR LIGHTING FIXTURE SCHEDULE This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table I. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.									
Designed Wattage: Conditioned Spaces									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)(3) / 170.2(e)(2)(C)	Design Watts	Field Inspector
									Pass Fail
F1/F1E	Type F1/F1E	No	NA	15	Mfr. Spec	32	No	480	☐ ☐
F2A/F2AE	Type F2A/F2AE	No	NA	19	Mfr. Spec	14	No	266	☐ ☐
F2B/F2BE	Type F2B/F2BE	No	NA	28	Mfr. Spec	4	No	112	☐ ☐
F3	Type F3	No	NA	26	Mfr. Spec	3	No	78	☐ ☐
F4	Type F4	No	NA	16	Mfr. Spec	1	No	16	☐ ☐
F5	Type F5	No	NA	55	Mfr. Spec	2	No	110	☐ ☐
F6A/F6AE	Type F6A/F6AE	No	NA	26	Mfr. Spec	6	No	156	☐ ☐
F6B	Type F6B	No	NA	32	Mfr. Spec	1	No	32	☐ ☐
F6C	Type F6C	No	NA	21	Mfr. Spec	1	No	21	☐ ☐
Total Designed Watts: CONDITIONED SPACES								1,271	

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)(4) / 170.2(e)(2) is adjusted to be 75% / 80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
²Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

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

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)											
This table includes lighting controls for conditioned and unconditioned spaces.											
Building Level Controls											
01						02			03		
Mandatory Demand Response 110.12(c)						Shut-off controls 130.1(c) / 160.5(b)(4C)			Field Inspector		
NA < 4,000W subject to multilevel						See Area/Space Level Controls			Pass Fail		
									☐ ☐		
Area Level Controls											
04	05	06	07	08	09	10	11	12			
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)(4A)	Multi-Level Controls 130.1(b) / 160.5(b)(4B)	Shut-Off Controls 130.1(c) / 160.5(b)(4C)	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)(4D)	Secondary Daylighting 130.1(d) / 160.5(b)(4D)	Interlocked Systems 140.6(a)(1) / 170.2(e)(2A)	Field Inspector			
								Pass	Fail		
Waiting Rm 113	Main Entry Lobby	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐		
MH/BH 110	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐		
Social Worker 111	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐		
SWSS Clerk 112	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐		
Storage 108	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐		
Public Lobby 101	Main Entry Lobby	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐		
Exam Rm 103	Hospital - Exam/Treatment	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐		
Exam Rm 104	Hospital - Exam/Treatment	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐		

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)									
Exam Rm 105	Hospital - Exam/Treatment	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
MH/BH 116	Hospital - Exam/Treatment	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
Exam Rm 117	Hospital - Exam/Treatment	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
Nurse Station 118	Hospital - Nurse Station	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Corridor 102	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
Storage 106	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Closet 115	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Unisex 107	Restroom	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Clean Dirty Lab 114	Laboratory Area, Scientific	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Data 109	Electrical Mechanical Telephone Room	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
								13	
Plan Sheet Showing Daylit Zones:									

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.						
Conditioned Spaces						
01	02	03	04	05	06	

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I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS						
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
Lobby	Main Entry Lobby	0.7	87	60.9	No	No
Office	Office (<=250 square feet)	0.65	383	249	No	No
Hall	Corridor	0.4	56	22.4	No	No
Lobby	Main Entry Lobby	0.7	123	86.1	No	No
Office	Office (<=250 square feet)	0.65	741	481.6	No	No
Hall	Corridor	0.4	587	234.8	No	No
Laboratory	Laboratory Area, Scientific	0.9	142	127.8	No	No
Electrical	Electrical Mechanical Telephone Room	0.4	38	15.2	No	No
TOTALS:		2,157		1,277.8	See Tables J, or P for detail	

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

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

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

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

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Report Version: 2022.0.000
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Compliance ID: EnergyPro-4473-0925-4519
Report Generated: 2025-09-04 17:39:25

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-LTI-4
Project Name: Indian Springs HS Wellness Center
Report Page: (Page 7 of 9)
Date Prepared: 9/4/2025

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

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

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

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

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

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

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

Generated Date/Time: Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: EnergyPro-4473-0925-4519
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-LTI-4
Project Name: Indian Springs HS Wellness Center
Report Page: (Page 8 of 9)
Date Prepared: 9/4/2025

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online
Form/Title
NRCC-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>
Form/Title
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.
Waiting Rm 113; MH/BH 110; Social Worker 111; SWSS Clerk 112; Storage 108; Public Lobby 101; Exam Rm 103; Exam Rm 104; Exam Rm 105; MH/BH 116; Exam Rm 117; Nurse Station 118; Corridor 102; Storage 106; Closet 115; Unisex 107; Clean Dirty Lab 114; Data 109;

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
NRCC-LTI-4
Project Name: Indian Springs HS Wellness Center
Report Page: (Page 8 of 9)
Date Prepared: 9/4/2025

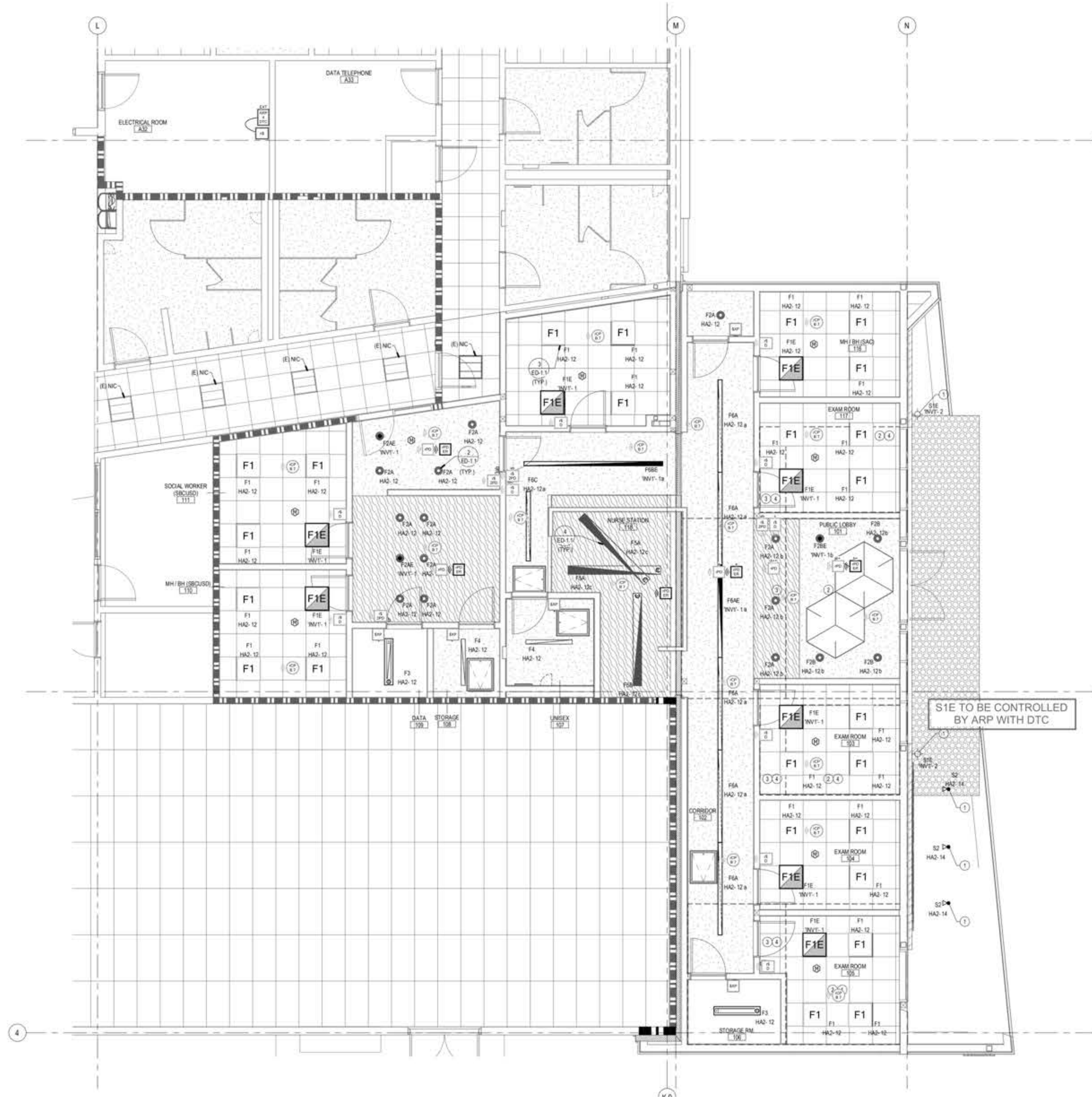
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Braden Kempton
Signature: [Signature]
Company: Design West Engineering
Signature Date: 2025-09-04
Address: 412 E. Vanderbilt Way
City/State/Zip: San Bernardino CA 92408
Phone: 909-890-3700

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design

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1 LIGHTING PLAN
1/8" = 1'

"CRITICAL NOTES (PLEASE READ):"
"PRODUCT SPECIFIC NOTES"
"OCCUPANCY SENSORS HAVE BEEN PROVIDED WHERE SHOWN."
"MULTI-GANG WALL SWITCHES HAVE BEEN CONSOLIDATED INTO A SINGLE GANG WALLPOD. PLEASE VERIFY IF THIS IS AN ACCEPTABLE SOLUTION."
"ASTRONOMICAL TIME CLOCK HAS BEEN PROVIDED FOR TIMELOCK CAPABILITIES. OUTDOOR PHOTOCELL NOT INCLUDED. OUTDOOR PHOTOCELL AVAILABLE UPON REQUEST."
"REHAUST FAN CONTROLS IN RESTROOMS ARE NOT PROVIDED. IF REQUIRED, PLEASE SPECIFY AND NOTE THAT THE FAN IS LIMITED TO 120W."
"THIS DESIGN IS FOR REVIEW PURPOSES ONLY AND IS SUBJECT TO CHANGE DEPENDING ON: REQUISITE OF OPERATION."
"FUTURE SUBMITTAL INDICATING DIMMING TYPES."
"UPDATES ELECTRICAL SET WITH CHANGES TO LIGHTING AND POWER CIRCUITING."
"ENGINEER/CONTRACTORS REVIEW. PLEASE PROVIDE FULL INFORMATION AND ASK FOR A REVISED B.O.M."
"PROJECT SPECIFICATION DOCUMENTS."
"EMERGENCY SYSTEM"
"EM SYSTEM IS CONSIDERED TO BE INVERTER."
"PLUGLOAD"
"PLUS LOADS HAVE BEEN EXCLUDED FROM THIS DESIGN. IF PLUS LOADS ARE REQUIRED PROVIDE POWER PLANS INDICATING CONTROLLED RECEPTACLES AND REQUEST A REVISED DESIGN."
"SYSTEMS AND COMPONENTS TO BE PROVIDED BY OTHERS"
"ALL CAT5 CABLE SHOWN IN THIS DESIGN IS TO BE SUPPLIED BY OTHERS. CONTRACTOR TO VERIFY LENGTH AND QUANTITY PRIOR TO PLACING ORDER."
"LINE VOLTAGE TROUBLE SWITCHES TO BE PROVIDED BY OTHERS."
"WEATHERPROOF AND OUTDOOR RATED ENCLOSURES TO BE PROVIDED BY OTHERS."
"FUTURE DIMMING NOTES"
"PLEASE PROVIDE AN APPROVED FUTURE SUBMITTAL PRIOR TO RELEASING CONTROLS AS DIMMING STYLES NEED TO BE VERIFIED."
"POWER PACKS ARE PROVIDED BASED ON THE FOLLOWING FUTURE DIMMING SYSTEMS."
"NIGHT AIR EXHAUST (NASE) F1, F1E."
"ALL OTHER FIXTURES ARE ASSUMED TO BE 0-10V."
"DAYLIGHT HARVESTING"
"DAYLIGHT HARVESTING IS USED IN AREAS WITH > 100 WATTS CONNECTED LOAD AND MORE THAN 44 SQ. FT. OF TOTAL GLAZED AREA."
"DAYLIGHT HARVESTING IS PLACED IN THE PRIMARY DAYLIGHT ZONE ALL ASSOCIATED CONTROL DEVICES WILL BE DESIGNATED WITH A 'P'. FIXTURES IN THE SECONDARY ZONE WILL BE PROGRAMMED TO BE OFFSET FROM THE PRIMARY ZONE AND ALL ASSOCIATED CONTROL DEVICES WILL BE DESIGNATED WITH A 'S'.
"DEMAND RESPONSE"
"AUTOMATIC DEMAND RESPONSE HAS NOT BEEN PROVIDED. PLEASE VERIFY IF REQUIRED."
"PROGRAMMING AND 3RD PARTY INTEGRATION"
"LIGHTING CONTROL SYSTEM SHALL HAVE ON-SITE START-UP PERFORMED BY THE MANUFACTURER. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR START-UP REQUIREMENTS."
"INTEGRATION WITH BUILDING AUTOMATION SYSTEMS HAS NOT BEEN PROVIDED VIA BACNET-IP, MODBUS, CONTACT CLOSURE."
"SYMBOLICAL PAGES NOT INCLUDED."
"NIGHT WIRED SPECIFIC NOTES"
"EXTERIOR LIGHTING IS FULLY NETWORKED AND OFFERS CENTRALIZED TIME CLOCK PROGRAMMING AND CONTROL CAPABILITIES VIA DIGITAL. TIME CLOCK INTEGRAL TO THE ARP PANEL."
"A LIGHTING ZONE CANNOT EXCEED 1500 FT. IN CATS. IF EXCEEDING THIS LENGTH, THE ZONE WILL NEED TO BE BROKEN INTO SMALLER ZONES AND MAY REQUIRE ADDITIONAL MATERIAL AND/OR GLOBAL CHANNEL PROGRAMMING TO MEET THE SPECIFIED SEQUENCE OF OPERATIONS."
"NIGHT AIR SPECIFIC NOTES"
"THIS DESIGN PROVIDES A STANDALONE NIGHT SYSTEM. IF A NETWORK OR TIME CLOCK IS REQUIRED, PLEASE REQUEST A REVISED DESIGN."

CRITICAL NOTES

PRODUCT LEGEND	
SCLUSD INDIAN SPRINGS HS WELLNESS CENTER	
	ARP INTENCOS NLT 4FCR MVOLT 1YB SC SM DTC Acuity Relay Panel, Include INT and ENC, 8-Size, nLight, 4-field configurable relays, 120-277V, Screw Cover, Surface Mount, DTC
	CONTROLS LAYOUT DRAWINGS, SUBMITTALS, CUSTOMER SUPPORT & PROGRAMMING CONTROLS LAYOUT DRAWINGS, SUBMITTALS, CUSTOMER SUPPORT & PROGRAMMING
	NPQDMA XX nLight Wired Aesthetic Wallpod
	RCSB PDT 7 G2 Ceiling Mount Battery Powered Sensor, Passive Dual Technology, Mini-Low Bay 360° Lens, Generation Two
	RPODBA 2P DX XX G2 nLight Preset Wall control, 2-Pole, Raised/Lower Dimming, Generation Two
	RPODBA DX XX G2 nLight Preset Wall control, Raised/Lower Dimming, Generation Two
	RPP20 D EFP G2 nLight Air Power/Relay Pack, Networked Version, Dimming, External Fault Protection, Generation Two
	RPP20 D ER EFP G2 nLight Air Power/Relay Pack, Networked Version, Dimming, UL924 Emergency Operation, External Fault Protection, Generation Two
	WSXA PDT XX Wall Switch, Passive Dual Technology
	Luminaire nLight enabled
	Luminaire nLight enabled Connected to emergency power circuit

APPROVAL
FOR THE PROJECT: 09/10/2025

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INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER:

RATED ASSEMBLY LEGEND

1-HR FIRE RATED WALL ASSEMBLY

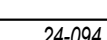
LIGHTING REMODEL
CONTROL LAYOUT

E0-0.6

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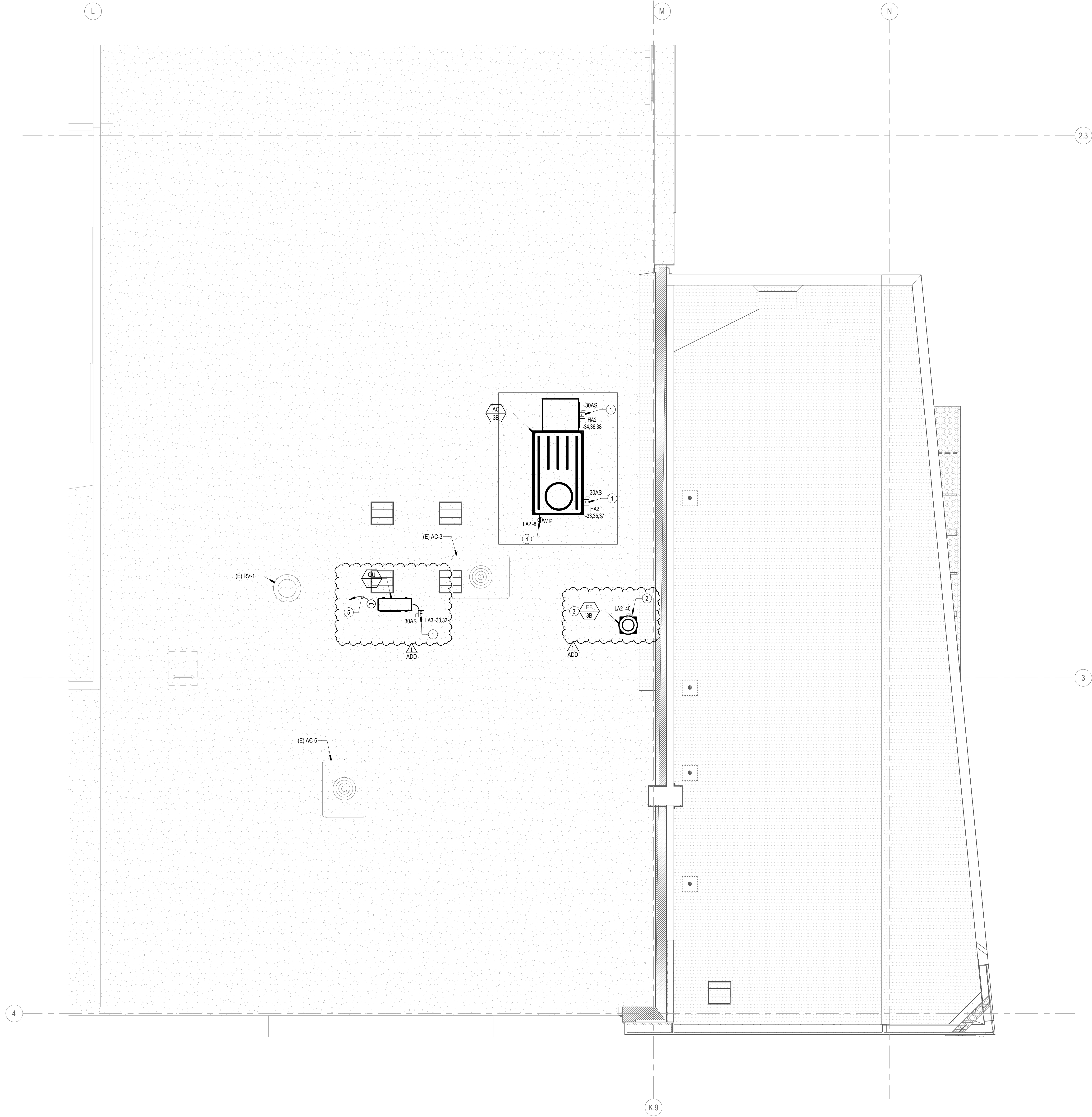
MOUNTING: SURFACE FED FROM: HA2 NEMA: 1 AIC RATING: 10KAIC										LIGHTING INVERTER 'INV1' NEW LOCATION: ELECTRICAL ROOM										VOLTAGE: 277V 1PH 2W BUS: 20 A MAIN: MLO FEEDER: 20-B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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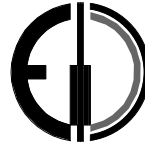
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AGENCY APPROVAL
FOR THE: 0000000000000000



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GENERAL NOTES

- REFER TO 'GENERAL NOTES' ON ELECTRICAL LEGENDS AND NOTES SHEET.
- ALL CONDUITS SHALL BE INSTALLED IN THE CEILING BELOW U.O.N.
- REFER TO MECHANICAL AND PLUMBING PLANS FOR THE EXACT LOCATION OF HVAC EQUIPMENT AND ADDITIONAL WIRING REQUIREMENTS.
- PROVIDE DUCT DETECTOR'S F.D. POWER AND CONNECTIONS AS INDICATED ON MECHANICAL DRAWINGS.
- PROVIDE FLEXIBLE SEAL TYPE CONDUIT FOR CONNECTION TO ALL HVAC EQUIPMENT.
- MOUNT ALL DISCONNECT SWITCHES INDEPENDENT OF THE HVAC UNIT.
- ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE NEMA 3R.
- ALL EXTERIOR RECEPTACLE OUTLETS SHALL BE GFCI TYPE.
- PROVIDE HEAVY DUTY DISCONNECT SWITCHES WITH DUAL ELEMENT FUSES TO MATCH MOTOR H.P. RATING.

CONSTRUCTION NOTES

- PROVIDE AND INSTALL H.D. WEATHERPROOF NEMA 3R RATED FUSED DISCONNECT MOUNTED ON UNISTRUT RACK. FUSING PER MECHANICAL EQUIPMENT MANUFACTURERS REQUIREMENTS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
REFER TO DETAIL:
- PROVIDE 120V 1P NEMA 3R MOTOR RATED SNAP SWITCH.
- EXHAUST FAN SHALL BE CONTROLLED BY LIGHT SWITCH IN RESTROOM BELOW.
- PROVIDE WEATHER PROOF GFCI WORK OUTLET AS REQUIRED WITHIN 25'-0" OF MECHANICAL EQUIPMENT. EXTEND EXISTING RECEPTACLE CIRCUIT FROM NEAREST ROOF RECEPTACLE AS NECESSARY FOR A COMPLETE CIRCUIT.
REFER TO DETAIL:
- PROVIDE 3/4" CONDUIT TO INDOOR UNIT WITH CONTROL WIRING. REFER TO MECHANICAL SPECIFICATIONS FOR WIRING REQUIREMENTS.

ADD

ELECTRICAL ROOF PLAN

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

1

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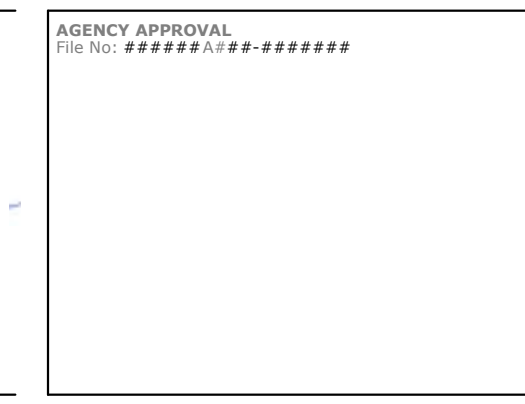
INDIAN SPRINGS HIGH SCHOOL HEALTH
CENTER

INDIAN SPRINGS HIGH SCHOOL
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ELECTRICAL REMODEL
ROOF PLAN

E1-2.2

INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER:



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1. COORDINATE LIGHT FIXTURE LOCATIONS AND LIGHT SWITCH LOCATIONS, COLOR, AND STYLE WITH ARCHITECT.
2. WHERE OCCUPANCY SENSORS ARE SHOWN ON PLANS, VERIFY WATTAGE AND COVERAGE OF PRODUCT PROVIDED IS ADEQUATE FOR SPACE TO BE CONTROLLED. COVERAGE IS TO BE ADJUSTED TO AVOID ACCIDENTAL ACTIVATION OUTSIDE OF AREA. VERIFY WIRING REQUIREMENTS TO ADDRESS ALL SENSORS, ROOM CONTROLLERS, RELAY SNACKS, ETC WITH PRODUCT BEING PROVIDED. OCCUPANCY SENSORS SHALL NOT BE LOCATED WITHIN FOUR FEET OF ANY HVAC DIFFUSER.
3. WHERE DAYLIGHT SENSORS ARE SHOWN ON PLANS, LOCATION SHOWN IS DIAGRAMMATICAL. VERIFY LOCATION IS PER MANUFACTURER RECOMMENDATIONS BASED ON TYPE OF SENSOR (OPEN/CLOSED LOOP). VERIFY WIRING REQUIREMENTS TO ADDITIONAL SENSORS, ROOM CONTROLLERS, RELAY PACKS, ETC WITH PRODUCT BEING PROVIDED.
4. PROVIDE NON-SWITCHED HOT POWER WIRE TO BATTERY PACK CHARGING/SENSOR IN FUTURE.
5. REFER TO LIGHTING CONTROL DETAILS FOR WIRING AND CONDUIT REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL WIRING AND CONDUITS REQUIRE BY MANUFACTURER TO FIXTURES AND CONTROLS.
6. FINAL MOUNTING LOCATIONS OF ALL OCCUPANCY AND PHOTOCELL DEVICES SHALL COORDINATED WITH MANUFACTURERS RECOMMENDATIONS AND FIELD ADJUSTED WITH REPRESENTATIVE AS NECESSARY.

- ① ROUTE THROUGH W/LIGHT SYSTEM FOR PHOTOCELL AND TIME CLOCK CONTROL. VERIFY SETTINGS WITH DISTRICT MAINTENANCE PRIOR TO SYSTEM START UP.
- ② PRIMARY DAYLIGHTING ZONE.
- ③ SECONDARY DAYLIGHTING ZONE.
- ④ TOTAL INSTALLED WATTS IN PRIMARY SIDEKIT DAYLT ZONE DOES NOT EXCEED 120 WATTS, THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE NOT REQUIRED. SECTION 130.10(D)
- ⑤ TOTAL INSTALLED WATTS IN SECONDARY SIDEKIT DAYLT ZONE DOES NOT EXCEED 120 WATTS, THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE NOT REQUIRED. SECTION 130.10(D)

 1-HR FIRE RATED WALL ASSEMBLY

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

LIGHTING REMODEL PLAN

E1-3.1

24.094



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LIGHTING REMODEL PLAN



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[illegible]

NORMAL PHOTOMETRY PLAN

E1-3.2

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EMERGENCY EGRESS PHOTOMETRY PLAN

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**INDIAN SPRINGS HIGH SCHOOL HEALTH
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EMERGENCY EGRESS PHOTOMETRY PLAN

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3	
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1. GROUND POLE TO GROUND CONDUCTORS IN CONDUITS.
2. REFER TO LANDSCAPE ARCHITECTURAL FOR FINAL SITE FIXTURE LOCATIONS.
3. LOCATE ALL SITE POLE TOP FIXTURES SO THAT THEY LINE UP WITH THE NEAREST PARKING STRIPE.
4. LIGHT POLES LESS THAN 30'-0" ABOVE GRADE ARE EXEMPT FROM DSA REVIEW AND APPROVAL.

ABOVE GRADE POLETOP LIGHTING

	2
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ELECTRICAL DETAILS
CONTINUED

ED-1.2

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INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER:

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DELTA # 4 DATE	☐ ADD ☐ AFO ☐ CDD ☐ REV

FIRE ALARM NOTES	
1.	THE FIRE ALARM SYSTEM AND EQUIPMENT INDICATED ON THESE DRAWINGS SHALL BE APPROVED BY THE LOCAL FIRE AUTHORITY AND SHALL BE INSTALLED AS DESCRIBED ON THESE DRAWINGS AND AS NOTED IN THE SPECIFICATIONS. ANY CHANGES TO THESE PLANS, SUCH AS DELETION, RELOCATION, ADDING OF DEVICES OR EQUIPMENT SUBSTITUTIONS SHALL BE RESUBMITTED TO THE LOCAL FIRE AUTHORITY FOR APPROVAL AT NO ADDITIONAL COST TO THE OWNER.
2.	ALL INITIATING DEVICES MUST BE SUPERVISED AT THE ANNUNCIATOR PANEL(S) AND CONTROLLED BY THE FIRE ALARM CONTROL PANEL (FACP).
3.	WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT FOR IN AND FOR OUT.
4.	EXPOSED CONDUIT BELOW CEILING SHALL NOT BE ACCEPTED. WIRING SHALL BE IN SURFACE MOUNT WIREMOLD IF NECESSARY BELOW CEILING ONLY WITH COUNTY'S WRITTEN APPROVAL.
5.	ALL TERMINATIONS IN JUNCTION BOXES, PULL BOXES AND TERMINAL CABINETS SHALL BE ON BOX MOUNTED TERMINAL BLOCKS. DO NOT USE WIRE NUTS FOR SPLICING. DO NOT SPLICE WIRES IN ANY BOXES.
6.	ALL CONDUIT SIZES INDICATED IN DRAWINGS ARE MINIMUM. CONTRACTOR TO ADJUST SIZE FOR FIELD CONDITIONS BUT SHALL NOT BE SMALLER THAN 3/4 INCH.
7.	ALL FIRE ALARM WIRING MUST TEST FREE OF OPENS, SHORTS AND GROUNDS.
8.	FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE ONLY. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS INDICATE.
9.	CONDUIT AND JUNCTION/BACK BOXES ARE NOT TO BE USED FOR UNRELATED WIRING.
10.	THE SYSTEM SHALL CONFORM TO TITLES 19 AND 24 AS APPLICABLE TO THIS PROJECT.
11.	UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF, AND IN A MANNER ACCEPTABLE, TO THE ENFORCING AGENCY.
12.	CONDUCTOR LENGTHS AND DEVICE QUANTITIES ARE SHOWN SOLELY FOR CALCULATION PURPOSES ONLY, AND SHALL NOT BE USED FOR BID TAKE-OFF.
13.	THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 780 OF CALIFORNIA ELECTRICAL CODE. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY ENGINEER OF RECORD (E.O.R.) UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE AUTHORITY HAVING JURISDICTION.
14.	PENETRATIONS OF PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TEST ASSEMBLY ACCEPTABLE TO LOCAL FIRE MARSHALL.
15.	ALL FIRE ALARM AND COMMUNICATIONS WIRES AND CABLES SHALL BE ONE CONTINUOUS LENGTH FROM A BUILDING TERMINAL CABINET TO ANOTHER BUILDING TERMINAL CABINET OR JUNCTION BOX. ABSOLUTELY NO UPGRADE SPLICES WILL BE PERMITTED. PROVIDE TERMINAL BLOCKS WITH MOUNTINGS IN TERMINAL CABINETS ONLY AS REQUIRED.
16.	EVERY ALARM SIGNALING DEVICE INSTALLED SHALL BE OF THE SAME BASIC TYPE (BELLS, HORNS, CHIMES, SPEAKERS, ECT.) AS ALL OTHER SIGNALING DEVICES IN THE FACILITY. (EXCEPTION: ANY SIGNALING DEVICES REQUIRED FOR THE DEAF OR HEARING IMPAIRED (NFPA PAMPHLET 72)).
17.	THE FIRE ALARM DEVICE SUPPLIER SHALL FURNISH ALL SURFACE MOUNT ENCLOSURES FOR PULL STATIONS AND SKIRTS FOR ALL VISUAL AND AUDIO VISUAL DEVICES TO CONCEAL AS BACK BOXES.
18.	AFTER THE SYSTEM IS COMPLETED, ALL ADDRESSABLE DEVICES SHALL BE PROGRAMMED AT THE FACP ACCORDING TO THE ACTUAL BUILDING ROOM NUMBER OR LOCATION DESCRIPTIONS AS INDICATED BY THE OWNER.
19.	POWER SERVICES SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM".
20.	AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS.
21.	FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (I.O.R.) AFTER COMPLETION OF OPERATION ACCEPTANCE TEST.
22.	THERE SHALL BE PRE-WIRE INSPECTION REQUIRED BY THE SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR EACH SYSTEM TO BE INSTALLED IN BUILDING. CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH SAN BERNARDINO COUNTY FIRE DEPARTMENT FOR THE PRE-WIRE INSPECTION OF EACH SYSTEM. APPROVAL BY THE COUNTY FIRE DEPARTMENT SHALL BE OBTAINED BEFORE FURTHER INSTALLATIONS ARE COMMENCED.
23.	EACH NEW SYSTEM, UPON COMPLETION, SHALL BE CERTIFIED AS PER DISTRICT & AHJ FIRE DEPARTMENT REQUIREMENTS.
24.	CONTRACTOR SHALL APPLY FOR ALL PERMITS AND INSPECTION REQUIRED BY LEGAL AUTHORITIES.
25.	WORKS AND MATERIALS SHALL BE IN FULL COMPLIANCE WITH THE LATEST AND MOST STRINGENT APPLICABLE CODE OR REGULATION.
26.	CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ANY ADDITIONAL COSTS FOR MATERIAL OR LABOR TO COMPLY WITH THESE CODES OR REGULATIONS.
27.	CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITION OF THE PREMISES ON WHICH THE WORK IS PERFORMED AND FOR THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE CONTRACT.
28.	EQUIPMENT AND MATERIALS SHALL BE LISTED, LABELED AND INSTALLED PER RECOGNIZED ELECTRICAL TESTING LABORATORY.
29.	AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISORY STATION AS REQUIRED BY NFPA 71 AS AMENDED BY ARTICLE 91. THE SUPERVISORY STATION SHALL BE LISTED AS EITHER ULFIP OR ULJIS BY UL OR SHALL MEET THE REQUIREMENTS OF FM STANDARD 3011.
30.	DESIGN DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION CONDITIONS WILL PERMIT.
31.	NOTHING ON THE DESIGN DRAWINGS SHALL BE DEEMED AS TO VIOLATE THE LATEST AND MOST STRINGENT APPLICABLE CODES OR REGULATIONS.
32.	ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE SITE BY GENERAL CONTRACTOR, AND EACH SUB-CONTRACTOR BEFORE THE WORK BEGINS. ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.
33.	OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS AS DETERMINED BY CODE OR REGULATION.
34.	PROVIDE INDICATES ITEM TO BE FURNISHED, INSTALLED AND CONNECTED.
35.	ALL USABLE EXISTING FIRE ALARM COMPONENTS REMOVED FROM THE PROJECT SHOULD BE RETURNED TO THE LOCAL MAINTENANCE AND OPERATIONS AREA FOR SALVAGE. THE LOCAL MAINTENANCE ELECTRICAL SUPERVISOR SHOULD BE CONSULTED TO DETERMINE IF ANY COMPONENTS ARE SALVAGEABLE.
36.	LOCATION AND PLACEMENT OF FIRE ALARM DEVICES ARE NOT DIAGRAMMATIC IN NATURE. ANY CHANGE IN THE LOCATION OR PLACEMENT OF BOTH DETECTION AND NOTIFICATION DEVICES MUST BE REVIEWED AND APPROVED BY DSA FIRE & LIFE SAFETY. FINAL APPROVAL OF DEVICE PLACEMENT IS SUBJECT TO FIELD VERIFICATION FOR CODE COMPLIANCE.
37.	CONDUIT SHALL COMPLY WITH THE REQUIREMENTS OF UNDERWRITER'S LABORATORIES. CONDUIT SHALL BE RIGID GALVANIZED STEEL BELOW OR IN CONCRETE SLAB, OR IN WET LOCATION. CONDUIT SHALL BE SUPPORTED ACCORDING TO CODE.
38.	WHERE EXISTING STRUCTURAL WALLS ARE CORED FOR NEW CONDUIT RUNS, SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW OR EXISTING HOLES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER AND DSA FIELD ENG.
39.	IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO MAKE A COMPLETE AND OPERATIVE SYSTEM. CONTRACTOR SHALL FURNISH ALL LABOR MATERIALS, EQUIPMENT, OR MISCELLANEOUS SERVICE REQUIRED TO ACCOMPLISH THIS RESULT.
40.	CONTRACTOR SHALL BID THE PROJECT AS INDICATED AND SPECIFIED ON THE DRAWINGS. WHEN SUBSTITUTING MATERIALS OR EQUIPMENT OTHER THAN AS SPECIFIED ON THE DRAWINGS CONTRACTOR SHALL SUBMIT CATALOG CUTS AND AMOUNT OF CREDIT FOR SUBSTITUTION TO BID, FOR APPROVAL.
41.	NOTES AND SCHEDULES LISTED ON DRAWINGS OF OTHER SECTIONS OF THIS PROJECT WITH REFERENCE TO ELECTRICAL CONTRACTOR OR ELECTRICIAN APPLY TO THIS SECTION OF CONTRACT.
42.	THE REPRESENTATION OF PHYSICAL PLACEMENT OF EXISTING CONDUITS HAS BEEN DEVELOPED FROM THE BEST INFORMATION AVAILABLE TO THE DISTRICT AT THE TIME THE DRAWINGS WERE PREPARED. THE DISTRICT PROVIDES THIS ONLY AS A GENERAL GUIDELINE FOR THE CONVENIENCE OF BIDDERS/CONTRACTORS AND DOES NOT GUARANTEE OR WARRANT IN ANY WAY EXPRESSLY OR IMPLIED, THE ACCURACY OF THESE REPRESENTATIONS. NOTHING IN THIS DISCLAIMER AFFECTS IN ANY WAY THE DUTY OF THE CONTRACTOR TO FURNISH ACCURATE "AS BUILT" DRAWINGS AFTER THE COMPLETION OF THE CONTRACT.
43.	BEFORE FINAL ACCEPTANCE OF WORK CONTRACTOR IS TO ENSURE ALL EQUIPMENT AND SYSTEMS ARE INSTALLED AND FUNCTIONING PROPERLY BY PERFORMING REQUIRED FIELD TESTS.
44.	"OR EQUAL" MEANS EQUIVALENT OR SUPERIOR IN PERFORMANCE, MATERIALS, WORKMANSHIP AND APPEARANCE TO THE SPECIFIED EQUIPMENT.
45.	IN EXISTING BUILDINGS, CONTRACTORS SHALL NOT WORK IN AREAS CONTAMINATED BY MATERIALS MADE OF ASBESTOS UNTIL THE ASBESTOS MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED.
46.	REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.
47.	EXISTING FIRE ALARM SYSTEM MUST REMAIN IN OPERATION UNTIL NEW SYSTEM IS COMPLETE, APPROVED AND OPERATIONAL.
48.	INCLUDE ALL NECESSARY DEMOLITION AS PART OF THIS WORK.
49.	DO NOT RUN CONTINUOUS "WIREMOLD" RACEWAY ON CEILING WITH GLUE-ON ACOUSTIC TILES. RUN TRUNK RACEWAYS ON WALLS.
50.	QUANTITY OF WIRES SHOWN IN ALL CONDUITS IS FOR GENERAL GUIDELINE. SUPPLIER OF AUXILIARY SYSTEM (FA, INTERCOM/PA, TEL, SECURITY) SHALL PREPARE CONSTRUCTION DRAWINGS SHOWING ALL NECESSARY WIRES AND CABLES AND VERIFY SIZES OF ALL CONDUITS SHOWN. PROVIDE ALL SPARE WIRES BETWEEN BUILDINGS.
51.	CONTRACTOR SHALL APPLY FOR ALL PERMITS AND INSPECTION REQUIRED BY LEGAL AUTHORITIES.
52.	WORKS AND MATERIALS SHALL BE IN FULL COMPLIANCE WITH THE LATEST AND MOST STRINGENT APPLICABLE CODE OR REGULATION.
53.	CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ANY ADDITIONAL COSTS FOR MATERIAL OR LABOR TO COMPLY WITH THESE CODES OR REGULATIONS.

ABBREVIATIONS			
A	AMPERE	MH	MANHOLE
AF	AMPERE FRAME RATING	MAX	MAXIMUM
AFB	ABOVE FINISHED FLOOR	NC	NORMALLY CLOSED
AIC	AMPERE INTERRUPTING CAPACITY	NEC	NATIONAL ELECTRICAL CODE
AFG	ABOVE FINISHED GRADE	NEMA	NATIONAL ELECTRICAL
ASSY	ASSEMBLY		MANUFACTURER'S ASSOCIATION
AT	AMPERE TRIP RATING	NEW (N)	NEW, TO BE FURNISHED AND
AWG	AMERICAN WIRE GAUGE		INSTALLED BY CONTRACTOR
BKBD	BACKBOARD	NF	NON-FUSED
BLDG	BUILDING	NIC	NOT IN CONTRACT
BKR	BREAKER	NO	NUMBER, NORMALLY OPEN
C	CONDUIT	NTS	NOT TO SCALE
CAB	CABINET	OC	ON CENTER
CB	CIRCUIT BREAKER	OD	OUTSIDE DIAMETER
CKT	CIRCUIT	P	POLE
CFSD	COMBINATION FIRE SMOKE DAMPER	PB	PULL BOX
CO	CONDUIT ONLY	PF	POWER FACTOR
CU	CURRENT TRANSFORMER	PML	PANEL
CT	COPPER	POC	POINT OF CONNECTION
CL	CENTERLINE	PWR	POWER
DISC	DISCONNECT	PVC	POLYVINYL CHLORIDE
DN	DOWN	QTY	QUANTITY
DWG	DRAWING	REQD	REQUIRED
EA	EACH	REQMT	REQUIREMENT
EC	ELECTRICAL CONTRACTOR	RGS	RIGID GALVANIZED STEEL
EQUIP	EQUIPMENT	RM	ROOM
EMERG	EMERGENCY	SHT	SHEET
EXIST, (E)	EXISTING	SPEC	SPECIFICATIONS
F	FUSE	SW	SWITCH
FA	FIRE ALARM	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	TEL	TELEPHONE
FF	FINISHED FLOOR	TERM	TERMINAL
FG	FINISHED GRADE	TYP	TYPICAL
FLA	FULL LOAD CURRENT	UL	UNDERWRITERS LABORATORY
GEN	GENERATOR	UPS	UNINTERRUPTIBLE POWER SUPPLY
GFI	GROUND FAULT INTERRUPTER	UON	UNLESS OTHERWISE NOTED
GND	GROUND	V	VOLT, VOLTAGE
HP	HORSE POWER	VA	VOLT-AMPERE
HT	HEIGHT	W	WATT
HV	HIGH VOLTAGE	WP	WEATHERPROOF
J-BOX	JUNCTION BOX	WW	WIREWAY
KCML	THOUSAND CIRCULAR MILS	4W	FOUR-WIRE
KW	KILOWATT	3W	THREE-WIRE
KV	KILO VOLT	4S	JUNCTION BOX
KVA	KILO VOLT-AMPERE		(4" SQUARED X2 1/8" DEEP)
LDC	LOCAL DISTRIBUTION CABINET	Ø	DIAMETER, PHASE
LOC	LOCAL DISTRIBUTION FRAME	#	NUMBER
LCL	LONG CONTINUOUS LOAD	°C	DEGREE CELSIUS
LTG	LIGHTING		
LV	LOW VOLTAGE		
MFR	MANUFACTURER		
MAX	MAXIMUM		
MCC	MOTOR CONTROL CENTER		
MIN	MINIMUM		
MH	MOUNTING HEIGHT		

DEMOLITION NOTES	
1.	DEMOLISH/PATCH/REPAIR/REPLACE AS REQUIRED. ALL EXISTING CONSTRUCTION, FINISHES, LANDSCAPING, AND SITE CONSTRUCTION AFFECTED BY NEW WORK TO MATCH EXISTING ADJACENT CONSTRUCTION COMPLETE. PREPARE & PAINT AFFECTED SURFACES AS REQUIRED. ENTIRE SURFACE PLANE, UNLESS NOTED OTHERWISE.
2.	EXISTING ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL OR LANDSCAPE COMPONENTS INCLUDING BUT NOT LIMITED TO SITE PAVING, CURBS, CONCRETE WALKWAYS, PLANTERS, PLANTS/TREES, AND UNDERGROUND UTILITIES TO REMAIN UNLESS NOTED OTHERWISE. COMPONENTS TO REMAIN WHICH ARE REMOVED BY CONTRACTOR IN THE PERFORMANCE OF THE SCOPE OF WORK FOR ANY REASON ARE TO BE REPLACED TO MATCH EXISTING AT CONTRACTOR'S EXPENSE.
3.	PATCH AND REPAIR SUBSTRATE AND/OR FINISHES TO MATCH EXISTING WHERE EACH MECHANICAL, ELECTRICAL OR ARCHITECTURAL COMPONENT IS REMOVED, ADDED OR REPLACED.
4.	REMOVE, STORE, CLEAN AND PROTECT EXISTING FURNISHING, EQUIPMENT, CABINETS, ETC. AS REQUIRED TO PERFORM SCOPE OF WORK. PATCH, REPAIR, PAINT, REINSTALL OR REPLACE AS REQUIRED TO MATCH EXISTING.
5.	VERIFY ALL PAINT COLOR SELECTIONS WITH DISTRICT PROJECT MANAGER PRIOR TO APPLICATION.
6.	SUCCESSFUL BIDDER SHALL REQUEST THE DISTRICT TO FURNISH A SET OF AVAILABLE "RECORD DRAWINGS". CONTRACTOR SHALL USE DRAWINGS AS GENERAL GUIDELINE TO GENERALLY LOCATE EXISTING UNDERGROUND UTILITY LINES (ELECTRIC CONDUITS, PIPING, SPRINKLER LINES, SEWER LINES, ETC.). CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL LINES IN FIELD PRIOR TO TRENCHING. USE ELECTRONIC LOCATING DEVICES. USE DIGI-ALERT SERVICE, ETC. INCLUDE THIS LOCATING WORK IN BID. BE RESPONSIBLE FOR REPAIRING ANY DAMAGED LINES.
7.	INCLUDE ALL DEMOLITION WORK AS PART OF THIS CONTRACT. DEMOLITION SHALL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING: FIRE ALARM SYSTEM.
8.	EXISTING FIRE ALARM SYSTEM MUST REMAIN IN OPERATION UNTIL NEW SYSTEM IS COMPLETE, APPROVED AND OPERATIONAL. DURING CONSTRUCTION, "PROVIDE 24 HOUR FIRE WATCH" PER CFC CHAPTER 33. FIRE WATCH FOR IMPAIRMENT OF SYSTEM. SHOULD EXISTING SYSTEM NEED TO BE INTERRUPTED, EXISTING FA SYSTEM TO BE DEMOLISHED. DEMOLITION SHALL INCLUDE: REMOVAL OF ALL DEVICES-PULL STATIONS, BELLS, SWITCHES, DETECTORS, ETC. PROVIDE BLANK COVER PLATES ON ALL EXISTING BOXES WITH DEVICES REMOVED, PATCH AND PAINT WALLS AND CEILING AS REQUIRED. REMOVAL OF ALL WIRES IN EXISTING CONDUITS TO EXISTING DEVICES. REMOVAL OF ALL WIRES INCLUDE WIRES IN CONDUITS BETWEEN BUILDINGS AND WITHIN BUILDINGS.
9.	ANY DAMAGE CAUSED BY DEMOLITION OPERATIONS TO ADJACENT FACILITIES SHALL BE PROMPTLY REPAIRED AT NO ADDITIONAL COST TO THE BID. ALL ITEMS MOVED OR TEMPORARILY DISASSEMBLED SHALL BE REPLACED OR REASSEMBLED TO AT LEAST THE CONDITION IN LIKE QUALITY PRIOR TO REMOVAL OR DISASSEMBLY.
10.	ALL ABANDONED CIRCUITS AND WIRINGS SHOULD BE REMOVED COMPLETELY RATHER THAN LABELED, THIS WILL ELIMINATE ANY CONFUSION WHEN TROUBLE SHOOTING AT LATER DATE.
11.	ALL DEMOLITION SHALL COMPLY WITH CH 33 CBC AND CH 9833 CFC.
12.	CONTRACTOR SHALL PROVIDE A DIGITAL PHOTOGRAPH IN .JPG (JPEG, JOINT PHOTOGRAPHIC EXPERT GROUP) FORMAT OF ALL AREAS WHERE DEMOLITION OR EXCAVATION WILL REQUIRE REPLACEMENT. PRIOR TO BEGINNING DEMOLITION, CONTRACTOR SHALL USE DIGITAL PHOTOGRAPHS AS GUIDELINE TO RETURN THE AFFECTED AREA TO THE ORIGINAL CONDITION.
13.	CONTRACTOR SHALL NOT RELY ON ANY RECORD DRAWINGS FOR LOCATING EXISTING SUBSURFACE STRUCTURES. CONTRACTOR SHALL POT-HOLE AND USE EXTREME CAUTION DURING EXCAVATION AND SHALL BE RESPONSIBLE FOR LOCATING EXISTING UNDERGROUND UTILITY LINES (ELECTRIC CONDUITS, PIPING, SPRINKLER LINES, SEWER LINES, ETC.). CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL LINES IN THE FIELD PRIOR TO TRENCHING. USE ELECTRONIC LOCATING DEVICES. USE DIGI-ALERT SERVICE, ETC. INCLUDE THIS LOCATING WORK IN BID. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGED LINES WITHIN 24 HOURS.
14.	PERFORM THE NECESSARY DEMOLITION WORK WITH GREAT CARE AND WITH SMALL TOOLS IN ORDER NOT TO JEOPARDIZE EXISTING STRUCTURE AND EQUIPMENT TO REMAIN.
15.	COORDINATE THE DEMOLITION WORK AND NEW CONSTRUCTION TO PERMIT CONTINUED OPERATION OF ALL FACILITIES NECESSARY TO BE KEPT IN OPERATION.

SYMBOL	DESCRIPTION
	ABOVE CEILING, CONCEALED, JUNCTION BOX, WITH COVER, PER NATIONAL ELECTRICAL CODE (NEC) TABLE 370-9(a), 4" SQUARE DEEP, WITH PLASTER RING
	RECESSED WALL MOUNTED, JUNCTION BOX, WITH COVER, PER NATIONAL ELECTRICAL CODE (NEC) TABLE 370-9(a), 4" SQUARE DEEP, WITH PLASTER RING
	BRANCH PANELBOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE. (RECESSED MOUNTED)
	BRANCH PANELBOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE. (SURFACE MOUNTED)
	MAIN SWITCH-BOARD, POWER OR LIGHT, FLOOR STANDING ENCLOSURE, (SEE SINGLE LINE DIAGRAM AND LOAD SUMMARY)
	CONDUIT TURN DOWN
	CONDUIT TURN UP
	CONDUIT STUBBED AND CAPPED
	RACEWAY CONCEALED IN WALLS OR ABOVE CEILING
	CONDUIT CONCEALED IN OR UNDER FLOOR, COORDINATE WITH G.C.; OR, BURIAL CONDUIT UNDERGROUND, IN SCHEDULE - 40 PVC UNLESS NOTED OTHERWISE. VERIFY DEPTH AND TRENCHING WITH G.C.
	EXISTING DEVICE TO REMAIN
	REMOVE EXISTING DEVICE AND ASSOCIATED CONDUIT AND WIRE
	REMOVE EXISTING DEVICE AND RELOCATE AS SHOWN ON PLAN
	NEW LOCATION OF RELOCATED DEVICE
	HOMERUN TO CIRCUITS #1 AND #3 IN PANEL "A" (CROSSMARKS INDICATE NUMBER OF WIRES AND DOTTED CROSSMARK INDICATES GROUND WIRE.)
	EXISTING (DASH INDICATES) ELECTRICAL EQUIPMENT
	TELEPHONE BACKBOARD 2'X4'X3/4" PLYWOOD, PROVIDE 2" CONDUIT TO TELEPHONE POC.
	EXISTING FIRE ALARM CONTROL PANEL
	EXISTING FIRE ALARM ANNUNCIATOR

FIRE ALARM SHEET INDEX	
SHEET NUMBER	SHEET NAME
F0-0.1	FIRE ALARM LEGENDS & NOTES
F0-0.2	FIRE ALARM LEGENDS & NOTES CONT.
F0-0.3	FIRE ALARM RISER DIAGRAM
FS-1.1	FIRE ALARM DEMOLITION SITE PLAN
FS-1.2	FIRE ALARM REMODEL SITE PLAN
F1-1.1	FIRE ALARM DEMOLITION PLAN
F1-2.1	FIRE ALARM REMODEL PLAN
FD-1.1	FIRE ALARM DETAILS

FIRE ALARM EQUIPMENT LIST					
SYMBOL	MFG.	PART NO.	DESCRIPTION	REMARKS	CSFM LISTING
AR04-100058 FACP (E)	EDWARDS	EST-3	EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL W/KEYPAD & 160 CHARACTER LCD DISPLAY		7165-1657.186
FAC (E)	EDWARDS	3-LCANN	EXISTING FIRE ALARM NETWORK GRAPHIC ANNUNCIATOR (REMOTE) 80 CHARACTER LCD W/KEYPAD		7165-1657.193
(S)	EDWARDS	SMOKE DETECTOR SIGA-PO BASE SIGA-SB	NEW ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR 6 1/8 INCH BASE	COMPATIBLE WITH FACP	SMOKE DETECTOR: 7272-1657.331 BASE: 7300-1657.120
(R)	EDWARDS	SIGA-CR	NEW ADDRESSABLE RELAY CONTROL MODULE	MOUNT INTO A 4" SQUARE BOX	7300-1657.121
	EDWARDS	GCFR-VM	NEW MULTI-CANDELA STROBE SET AT CANELA SHOWN ON PLAN	CEILING MOUNT, RED	7125-1657.219
	EDWARDS	GCFR-HDVM	NEW MULTI-CANDELA HORN/STROBE SET AT CANELA SHOWN ON PLAN	CEILING MOUNT, RED	7125-1657.202
	EDWARDS	WG4RF-H	NEW EXTERIOR WALL MOUNTED HORN	WALL MOUNT, RED	7135-1657.310
NOTE: CONTRACTOR SHALL SUPPLY EQUIPMENT AS PER LISTING OR APPROVED EQUAL. SUBSTITUTE OF ANY KIND OTHER THAN THE LISTED ABOVE REQUIRE CONTRACTOR TO RE-SUBMIT TO DSA FOR APPROVAL.					
NOTE: FIRE ALARM SYSTEM IS ADDRESSABLE. NAC CIRCUITS SHALL BE SYNCHRONIZED PER FLOOR.					
NOTE: ALL NEW FIRE ALARM DEVICES ARE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.					
NOTE: PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND CONNECT TO EXISTING FIRE ALARM SYSTEM AS SHOWN ON DRAWINGS. ALL WIRING TO BE CLASS B. WIRING IS STYLE Y FOR NOTIFICATION APPLIANCE CIRCUITS, AND STYLE B FOR INITIATING DEVICES AND STYLE Y FOR SIGNALING CIRCUITS. THE ENTIRE SYSTEM IS NON-POWER LIMITED. DESIGN PER PLANS AND SPECS.					
NOTE TO CONTRACTOR					
DO NOT SCALE DRAWINGS					
CONTRACTOR SHALL VERIFY PLANS AND EXISTING CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ELECTRICAL ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.					
APPLICABLE CODES					
2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.					
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.					
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.					
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.					
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.					
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.					
PARTIAL LIST OF APPLICABLE STANDARDS					
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED)				2022 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS				2018 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS				2018 EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES				2003 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS				1999 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED				2002 EDITION

STAMPS

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DESIGN WEST ENGINEERING
MECHANICAL - ELECTRICAL - ENERGY CONSULTANTS

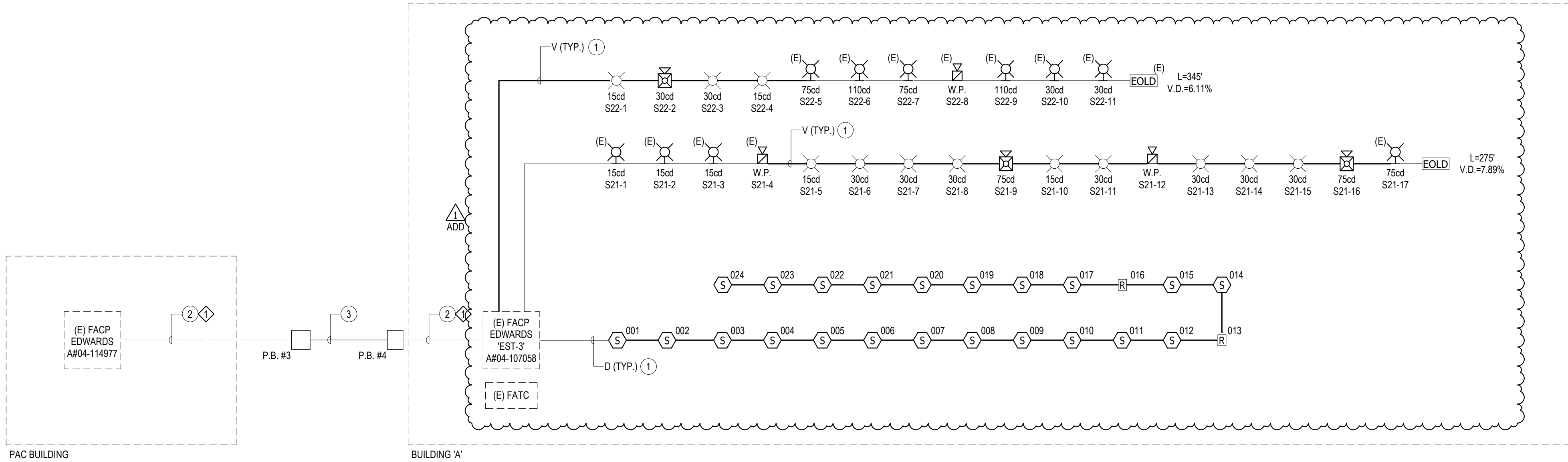
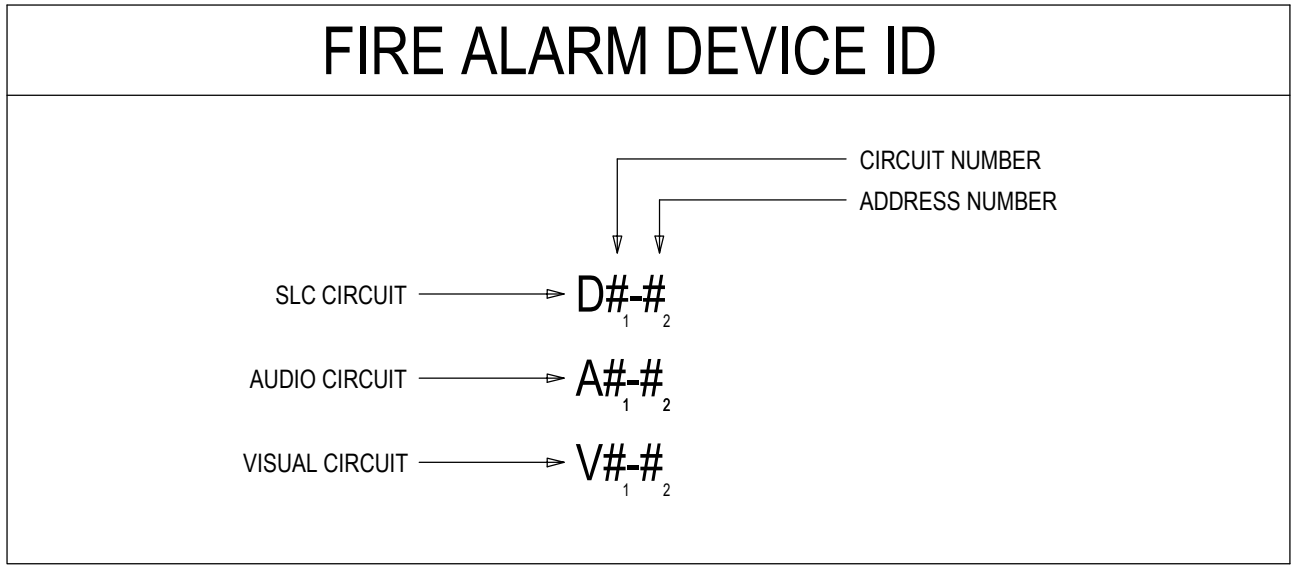
CONSULTANT BRANDING

RUHNAU
CLARKE
ARCHITECTS

INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER:

FIRE ALARM WIRING SCHEDULE			
TYPE	DESCRIPTION	MANUFACTURE/CATALOG #	PURPOSE
D	2 #16 UTP	INDOOR/WEST PENN NO. D990 OUTDOOR/WEST PENN NO. AQ225	SLC LOOP CIRCUIT
H	2 #12 THHN/THWN, CU	VINYLON THHN/THWN-2	HORN CIRCUIT
V	2 #12 THHN/THWN, CU	VINYLON THHN/THWN-2	STROBE ALARM CIRCUIT
P	2 #12 THHN/THWN, CU	VINYLON THHN/THWN-2	L.V. POWER CIRCUIT
N	2 #18 UTP	INDOOR/WEST PENN NO. D980 OUTDOOR/WEST PENN NO. AQ224	NETWORK CIRCUIT

NOTE: -NUMERAL ADJACENT TO CABLE TYPE INDICATES QUANTITY OF CABLES.
-EXAMPLE: "3F" DENOTES 3 PAIR OF 2#12 CABLE.
-ALL CONDUIT IS 3/4" U.O.N.
-ALL CABLES SHALL BE THHN/THWN (FOR UNDERGROUND).
-FIRE ALARM WIRES SHALL BE UNCOATED SOLID COPPER THHN/THWN.
-FIRE ALARM CABLES SHALL BE FPLR TYPE SUITABLE FOR ENVIRONMENT.
-REFER TO SPECIFICATIONS FOR NETWORK CABLES AND FOR WIRES COLOR CODE.



FIRE ALARM RISER DIAGRAM

1

◇ REMOVE EXISTING CABLING BACK TO HEAD END EQUIPMENT IN PAC BUILDING. EXISTING CONDUIT TO REMAIN.

VOLTAGE DROP CALCS CIRCUIT 'FACP-S21'

Location: BUILDING 'A'

DEVICE	QTY	VOLTAGE	AMPS PER UNIT	TOTAL ALARM AMPS	WIRE SIZE	RES.	DIST.	VOLT DROP	%
EXISTING 15cd WALL STROBE	3	24	0.059	0.177	--	--	--	--	--
EXISTING 75cd WALL STROBE	1	24	0.152	0.152	--	--	--	--	--
NEW 15cd CEILING STROBE	2	24	0.063	0.126	--	--	--	--	--
NEW 30cd CEILING STROBE	7	24	0.168	1.176	--	--	--	--	--
NEW 75cd CEILING HORN/STROBE	2	24	0.180	0.360	--	--	--	--	--
EXISTING EXTERIOR HORN	1	24	0.040	0.040	--	--	--	--	--
NEW EXTERIOR HORN	1	24	0.049	0.049	--	--	--	--	--
TOTALS	24			2.080	#12	1.6550	275	1.89	7.89

STARTING VOLTAGE = 20.4 VOLTAGE AT END OF LINE = 18.5 MINIMUM VOLTAGE PER MANUFACTURER SPECIFICATIONS = 16.0

VOLTAGE DROP CALCS CIRCUIT 'FACP-S22'

Location: BUILDING 'A'

DEVICE	QTY	VOLTAGE	AMPS PER UNIT	TOTAL ALARM AMPS	WIRE SIZE	RES.	DIST.	VOLT DROP	%
EXISTING 30cd WALL STROBE	2	24	0.082	0.164	--	--	--	--	--
EXISTING 75cd WALL STROBE	2	24	0.152	0.304	--	--	--	--	--
EXISTING 110cd WALL STROBE	2	24	0.191	0.382	--	--	--	--	--
NEW 15cd CEILING STROBE	2	24	0.063	0.126	--	--	--	--	--
NEW 30cd CEILING STROBE	1	24	0.168	0.168	--	--	--	--	--
NEW 30cd CEILING HORN/STROBE	1	24	0.101	0.101	--	--	--	--	--
EXISTING EXTERIOR HORN	1	24	0.040	0.040	--	--	--	--	--
TOTALS	24			1.285	#12	1.6550	345	1.47	6.11

STARTING VOLTAGE = 20.4 VOLTAGE AT END OF LINE = 18.9 MINIMUM VOLTAGE PER MANUFACTURER SPECIFICATIONS = 16.0

BATTERY CALCULATIONS (E) 'FACP'

TYPE	QTY	SUPERVISORY CURRENT		ALARM CURRENT	
		EACH	TOTAL	EACH	TOTAL
EXISTING FACP	1	1.362	1.362	5.647	5.647
NEW SMOKE DETECTOR	22	0.000051	0.001122	0.000068	0.001496
NEW RELAY MODULE	2	0.0001	0.0002	0.0001	0.0002
NEW 15cd CEILING STROBE	4	----	----	0.063	0.252
NEW 30cd CEILING STROBE	8	----	----	0.168	1.344
NEW 30cd CEILING HORN/STROBE	1	----	----	0.101	0.101
NEW 75cd CEILING HORN/STROBE	2	----	----	0.180	0.36
NEW EXTERIOR HORN	1	----	----	0.049	0.049
TOTALS			1.363322		7.754696
TOTAL SUPERVISORY CURRENT				1.363 A	
SUPERVISORY STANDBY TIME				24.0 HRS	
REQUIRED BATTERY (SUPERVISORY)				32.720 AH	
TOTAL FIRE ALARM CURRENT				7.765 A	
FIRE ALARM STANDBY TIME				0.0833 HRS	
REQUIRED BATTERY (FIRE ALARM)				0.646 AH	
TOTAL REQUIRED (WITH 25% SAFETY MARGIN)				41.707 AH	
NEW BATTERY				50.0 AH	
BATTERY REMAINING SPARE CAPACITY				8.293 AH	

FIRE ALARM CALCULATIONS

2

PROJECT No. :
9/10/2025 9:29:10 AM

DRAWN BY: J.M./ST
CHECKED BY: B.K.

DELTA # 1 DATE 09/05/25
DELTA # 2 DATE
DELTA # 3 DATE
DELTA # 4 DATE

ADD AFO CDD REV
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INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER

650 N DEL ROSA DR, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

FIRE ALARM RISER
DIAGRAM

F0-0.3



DESIGN WEST ENGINEERING
MECHANICAL - ELECTRICAL - ENERGY CONSULTANTS

CONSULTANT BRANDING

RUHNAU
CLARKE
ARCHITECTS

GENERAL NOTES

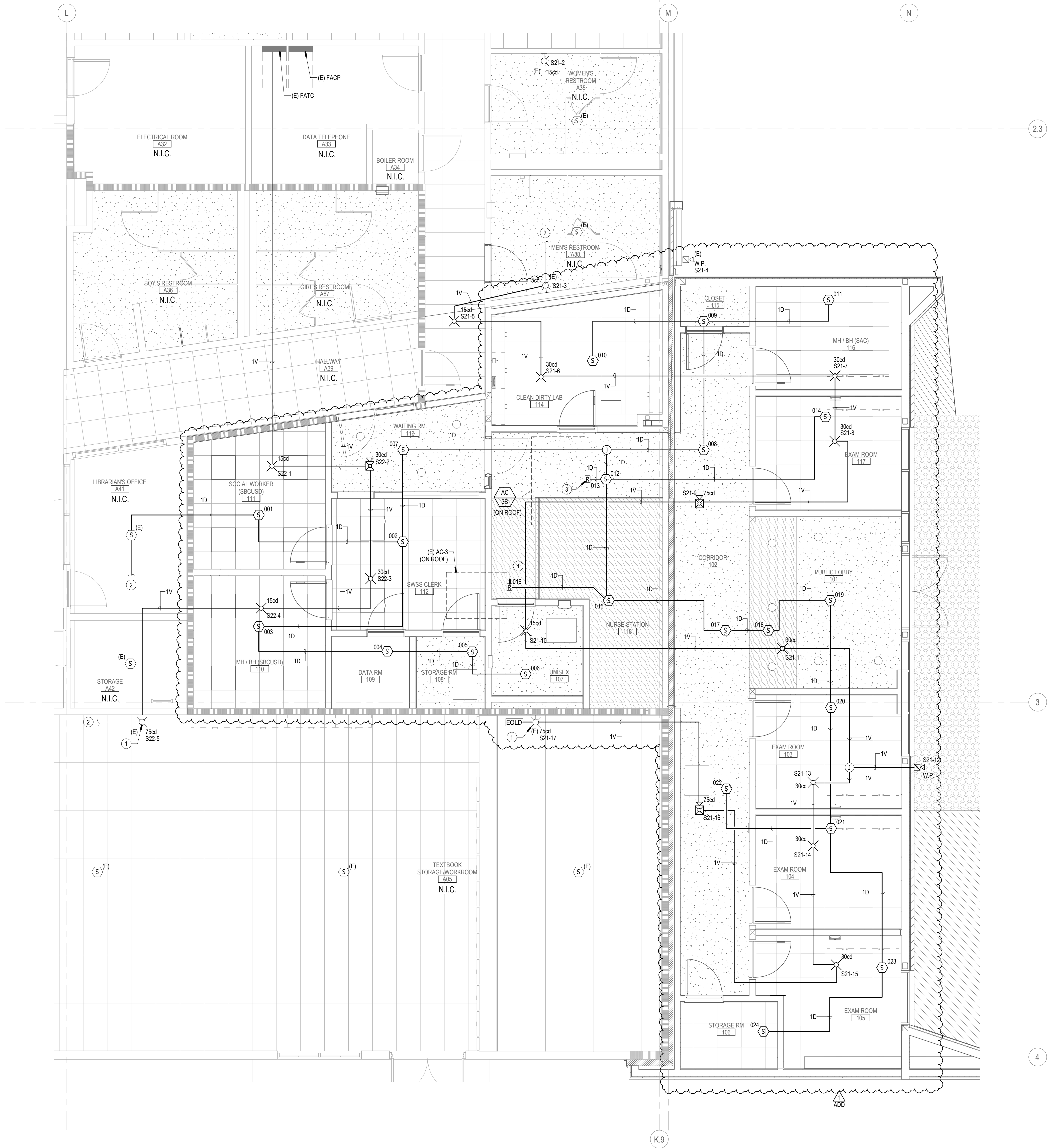
- REFER TO 'FIRE ALARM NOTES' ON FIRE ALARM LEGENDS AND NOTES SHEETS.
- ALL STROBES AND SMOKE DETECTORS SHALL BE IDENTIFIED AS 'FIRE ALARM CIRCUIT', PER NFPA 72 10.6.5.2.2.
- STORAGE BATTERY CELLS SHALL BE INSULATED AGAINST GROUNDS FAULTS THAT MIGHT OCCUR, PER NFPA 72 10.6.10.2.1.
- BATTERIES SHALL BE PROTECTED AGAINST EXCESSIVE CHARGING AND LOAD CURRENTS BY MEANS OF AN OVERCURRENT DEVICE, PER NFPA 72 10.6.10.4.
- THE SECONDARY POWER SUPPLY SHALL AUTOMATICALLY PROVIDE POWER TO THE PROTECTED PREMISES SYSTEM WITHIN 10 SECONDS AND THE SUPERVISING SYSTEM WITHIN 60 SECONDS OF PRIMARY POWER FAILURE, TO MEET MINIMUM VOLTAGE REQUIREMENTS FOR OPERATION (PER NFPA 72 10.6.6.).
- PROVIDE A LISTED BREAKER LOCKING DEVICE FOR THE REMOTE POWER SUPPLY CIRCUIT BREAKER AND FIRE ALARM CONTROL UNIT, PER NFPA 72 10.6.5.4. PROVIDE CIRCUIT BREAKER WITH RED MARKING AND IDENTIFICATION FOR FIRE ALARM CIRCUIT. LOCATION OF CIRCUIT BREAKER TO BE PERMANENTLY IDENTIFIED AT FACP/FATC.

DEMOLITION NOTES

- ◇ REMOVE EXISTING CABLING BACK TO HEAD END EQUIPMENT IN PAC BUILDING. EXISTING CONDUIT TO REMAIN.

CONSTRUCTION NOTES

- VERIFY WITH FIRE ALARM WIRING SCHEDULE FOR ALL FA CABLING REQUIREMENTS.
- PROVIDE NEW FIRE ALARM CABLING IN EXISTING CONDUITS AND RECONNECT EXISTING EQUIPMENT IN P.A.C. BUILDING TO EXISTING HEAD END EQUIPMENT IN BUILDING 'A'. QUANTITY AND SIZE OF CABLING TO MATCH EXISTING. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT, CABLING, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING AS NECESSARY FOR A COMPLETE RECONNECTION.
- PROVIDE NEW FIRE ALARM CABLING IN NEW CONDUIT PATHWAY. REFER TO REMODEL SITE PLAN FOR CONDUIT SIZE.



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DESIGN WEST ENGINEERING
MECHANICAL - ELECTRICAL - ENERGY CONSULTANTS

**RUHNA
CLARKE**
ARCHITECTS

GENERAL NOTES

- REFER TO 'GENERAL NOTES' ON FIRE ALARM LEGENDS AND NOTES SHEET.
- FOR ANY FIRE WALL PENETRATIONS 2" AND UNDER:
REFER TO DETAIL  AD-2.1

CONSTRUCTION NOTES

- EXTEND EXISTING FIRE ALARM CIRCUIT TO EXISTING STROBE. PROVIDE ALL NECESSARY CABLING, CONDUIT, JUNCTION BOXES, PROGRAMMING AND TESTIN FOR A COMPLETE AND OPERABLE CIRCUIT.
- EXISTING FIRE ALARM CIRCUIT TO REMAIN. REFER TO AS-BUILT DRAWINGS UNDER A#04-107058 FOR MORE INFORMATION.
- PROVIDE RELAY MODULE FOR NEW HVAC UNIT SHUT-DOWN.
REFER TO DETAIL  FD-1.1
- PROVIDE RELAY MODULE FOR EXISTING HVAC UNIT SHUT-DOWN.
REFER TO DETAIL  FD-1.1

RATED ASSEMBLY LEGEND

 1-HR FIRE RATED WALL ASSEMBLY

FIRE ALARM REMODEL PLAN

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

INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER

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650 N DEL ROSA DR, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

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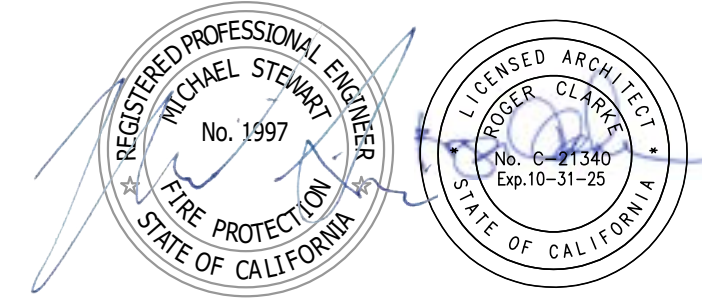
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AGENCY APPROVAL
FP No: 0000000000000000

412 E. Vanderbilt Way
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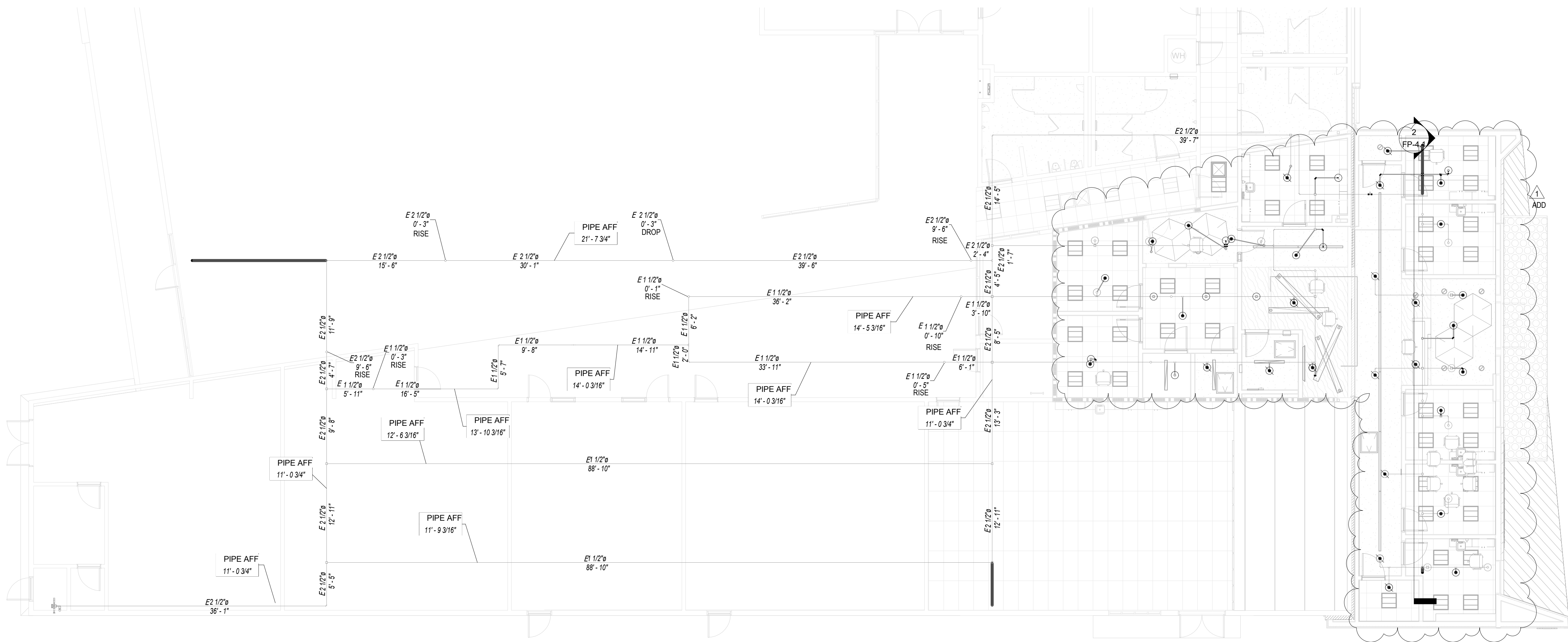
DESIGN WEST ENGINEERING
MECHANICAL - ELECTRICAL - ENERGY CONSULTANTS

RUHNAU
CLARKE
ARCHITECTS

CONSULTANT BRANDING

GENERAL NOTES

CONSTRUCTION NOTES



FOR HYDRAULIC REFERENCE USE ONLY.

FIRE PROTECTION HYDRAULIC REF PLAN

1/8" = 1'-0"

2

PROJECT No. :1-78-50
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CHECKED BY: MS
DATE: 09/09/2025
DELTA # 1 DATE 09/09/2025
DELTA # 2 DATE
DELTA # 3 DATE
DELTA # 4 DATE

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INDIAN SPRINGS HIGH SCHOOL HEALTH CENTER

INDIAN SPRINGS HIGH SCHOOL
650 N DEL ROSA DR, SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

FIRE SPRINKLER HYD.
REF. CEILING PLAN

FP-1.2

- (E) WALL,
REFER TO DEMO PLANS FOR MORE INFO.
- TYP. NEW WOOD STUD NON-RATED WALL,
REFER TO WALL TAG FOR MORE INFO.
- TYP. NEW WOOD STUD RATED WALL ASSEMBLY,
REFER TO WALL TAG FOR MORE INFO.
- 1-HR FIRE RATED WALL ASSEMBLY

WALL LEGEND

5

TOLBrace™ Seismic Bracing Calculations

EN 15315

Project Address: INDIAN SPRINGS H.S. HEALTH CTR
50 N. DEL ROSA DR.
SAN BERNARDINO, CA 92408
JAN 19

Contractor: Design West Engineering
Address: 412 Vanderbilt Way
San Bernardino, CA 92407
Phone: 909-890-3700
Licenses: 909-890-3700

Calculation based on 15.8.3.2 of ASCE 7-10 Appendix C1.2

Brace Information

Maximum Brace Length: 9' 0" (2.743 m)
Diameter of Brace: 1.312"
Type of Brace: SBCUSD
Angle of Brace: 45°
Load Path of System: 1.54" (39 mm)
L/R Value: 200
Max Horizontal Load: 2173 lbs (986 kg)

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 1001, C1001	2000 lbs (907 kg)	1750 lbs (798 kg)
Fig. A1, B1, C1, D1, E1, F1, G1, H1, I1, J1, K1, L1, M1, N1, O1, P1, Q1, R1, S1, T1, U1, V1, W1, X1, Y1, Z1	2700 lbs (1224 kg)	2325 lbs (1058 kg)

See Fastener Information

Calculation based on CONCRETE/STEEL JOINTING
*Please Note: These calculations are for TOLCO™ components only. Use of any other components with these calculations is the responsibility of the user.

Seismic Brace Assembly Detail

Fastener Information

Orientation to Connecting Surface: N/A
Fastener: 5/8" x 5.125" THRU BOLT
Diameter: 5/8"
Length: 5.125"
Maximum Load: 900 lbs (408 kg)
Prying Factor: N/A

Brace Type: Lateral ☐ Longitudinal ☐ 4-Way ☐

Brace Identification on Plans

Brace Type: Lateral ☐ Longitudinal ☐ 4-Way ☐

Sprinkler System Load Calculation (Pw = CpWp)

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" (102 mm)	SBCUS	25.07 ft (7.64 m)	25.07 ft (7.64 m)	17.76 lbs (8.03 kg)	286 lbs (129 kg)
2" (51 mm)	SBCUS	11.84 ft (3.60 m)	11.84 ft (3.60 m)	11.16 lbs (5.06 kg)	77 lbs (35 kg)
1.5" (38 mm)	SBCUS	30.00 ft (9.14 m)	30.00 ft (9.14 m)	3.61 lbs (1.64 kg)	108 lbs (49 kg)
1.25" (32 mm)	SBCUS	12.00 ft (3.66 m)	12.00 ft (3.66 m)	2.00 lbs (0.91 kg)	24 lbs (11 kg)
1" (25 mm)	SBCUS	30.00 ft (9.14 m)	30.00 ft (9.14 m)	2.00 lbs (0.91 kg)	60 lbs (27 kg)
Subtotal Weight:					566 lbs (256 kg)
Main Pipe: 100' (30.5 m) x 10" (254 mm) x 0.375" (9.5 mm) Schedule 40					
Maximum Pipe per 15.8.3.2 of applicable code: 100' (30.5 m) x 10" (254 mm) x 0.375" (9.5 mm) Schedule 40					

LATERAL BRACE

4

TOLBrace™ Seismic Bracing Calculations

V.18.115

Project Address: INDIAN SPRINGS H.S. HEALTH CTR
50 N. DEL ROSA DR.
SAN BERNARDINO, CA 92408
Job #

Contractor: Design West Engineering
Address: 412 Vanderbilt Way
San Bernardino, CA 92407
Phone: 909-890-3700
Licenses: 909-890-3700

Calculations based on 2022 NPSA Form 7100

Brace Information

Maximum Brace Length: 9' 0" (2.743 m)
Diameter of Brace: 1.312"
Type of Brace: SBCUSD
Angle of Brace: 45°
Load Path of System: 1.54" (39 mm)
L/R Value: 200
Max Horizontal Load: 2173 lbs (986 kg)

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. A1, C1, D1, E1, F1, G1, H1, I1, J1, K1, L1, M1, N1, O1, P1, Q1, R1, S1, T1, U1, V1, W1, X1, Y1, Z1	2000 lbs (907 kg)	1750 lbs (798 kg)
Fig. A10: 1/4" Central Steel	2100 lbs (953 kg)	1815 lbs (825 kg)

See Fastener Information
*Calculation based on CONCRETE/STEEL JOINTING
*Please Note: These calculations are for TOLCO™ components only. Use of any other components with these calculations is the responsibility of the user.

Seismic Brace Assembly Detail

Fastener Information

Orientation to Connecting Surface: N/A
Fastener: 5/8" x 5.125" THRU BOLT
Type: 5/8" x 5.125" THRU BOLT
Diameter: 5/8"
Length: 5.125"
Maximum Load: 900 lbs (408 kg)
Prying Factor: N/A

Brace Identification on Plans

Brace Type	Lateral []	Longitudinal []	4-Way []
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Sprinkler System Load Calculation (Pw = CpWp)

Cp		Wp		CpWp	
Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" (102 mm)	SBCUS	46.91 (14.30 m)	46.91 (14.30 m)	11.16 lbs (5.06 kg)	471 lbs (214 kg)
2" (51 mm)	SBCUS	11.84 (3.60 m)	11.84 (3.60 m)	11.16 lbs (5.06 kg)	77 lbs (35 kg)
1.5" (38 mm)	SBCUS	30.00 (9.14 m)	30.00 (9.14 m)	3.61 lbs (1.64 kg)	108 lbs (49 kg)
1.25" (32 mm)	SBCUS	12.00 (3.66 m)	12.00 (3.66 m)	2.00 lbs (0.91 kg)	24 lbs (11 kg)
1" (25 mm)	SBCUS	30.00 (9.14 m)	30.00 (9.14 m)	2.00 lbs (0.91 kg)	60 lbs (27 kg)
Subtotal Weight: 678 lbs (307 kg)					
Main Pipe: 100' (30.5 m) x 10" (254 mm) x 0.375" (9.5 mm) Schedule 40					
Maximum Pipe per 15.8.3.2 of applicable code: 100' (30.5 m) x 10" (254 mm) x 0.375" (9.5 mm) Schedule 40					

LONGITUDINAL BRACE

3

PROJECT: INDIAN SPRINGS H.S. HEALTH CENTER DATE: 09-05-2025
WORK SITE LOCATION: 650 N. DEL ROSA DR. SAN BERNARDINO, CA SYSTEM: WET
CONTRACTOR: NOT YET SELECTED ZONE: MRA-1
CONTRACTOR ADDRESS: NOT YET SELECTED AREA: 2,880 SQ. FT.

SYSTEM DESIGN

HAZARD: LH OH-1 OH-II EH-I EH-II

NFPA STANDARD: 13 EDITION: 2022

AREA/SPRINKLER: 120 AVG. SQ. FT. USED: 130 SQ. FT. ALLOWED

MANUFACTURER: VICTAULIC

MODEL	SIN	SR/OR	K-FAC.	SIZE	ORIENT	TEMP	QTY
FIRELOCK	V2704	QR	5.6	1/2"	SSU	200	14

CALCULATION DATA

DENSITY/AREA: 10 GPM/SQ. FT. OVER 1050 SQ. FT. AREA

END SPRINKLER: 14.82 GPM @ 2.00 PSI

NO. OF SPRINKLERS FLOWING: 14

HOSE STREAM ALLOWANCE: 100 GPM

DEMAND: AT BASE OF RISER 221.11 GPM @ 51.54 PSI

AT SOURCE 322.11 GPM @ 52.52 PSI

CALC PLATE INFO

2

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