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G001



## ABBREVIATIONS

[illegible]

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## SCOPE OF WORK

THIS SCOPE OF WORK OUTLINES THE GENERAL NATURE AND EXTENT OF THE WORK. OTHER PARTS OF THE DRAWINGS AND SPECIFICATIONS MAY SHOW AND/OR REFERENCE WORK NOT SPECIFICALLY INCLUDED IN THESE NOTES.

REMOVAL OF THE GYMNASIUM BUILDING "S" HVAC SYSTEMS AND INSTALLATION OF NEW HVAC SYSTEM.

INSTALLATION OF NEW POWER FEEDER AND TRANSFORMER FOR THE GYMNASIUM BUILDING "S" HVAC SYSTEM.

REMOVAL OF THE GIRLS LOCKER ROOM BUILDING "R" AND GYMNASIUM BUILDING "S" ROOFING AND INSTALLATION OF NEW ROOFING.

REMOVAL OF THE GIRLS LOCKER ROOM BUILDING "R" AND GYMNASIUM BUILDING "S" BOYS LOCKER ROOM BUILDING "T" FIRE ALARM AND INSTALLATION OF NEW FIRE ALARM SYSTEM.

REMOVAL OF THE GIRLS LOCKER ROOM BUILDING "R" AND GYMNASIUM BUILDING "S" ROOFING AND INSTALLATION ON NEW ROOFING.

## APPLICABLE CODES

LIST OF APPLICABLE CODES

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

**APPLICABLE STANDARDS**  
FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO  
CBC CHAPTER 35 AND CFC CHAPTER 80.

### PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)	2022 EDITION
NFPA 14	STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)	2022 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2022 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2022 EDITION
NFPA 20	STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2022 EDITION
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2022 EDITION
NFPA 24	STANDARD FOR INSTALLATION OF PRIVATE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED)	2022 EDITION
NFPA 72	STANDARD FOR FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2022 EDITION
NFPA 80	STANDARD FOR THE CARE, USE, AND REPAIR OF ROOF CURTAIN PROTECTIVES	2022 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)	2022 EDITION
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2022 (R2010)
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2022 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	2022 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2022 (R2012)
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2022 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (§FM) CHAPTER 35 AND CALIFORNIA FIRE CODE (CFC) CHAPTER 80

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

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DIV. OF THE STATE ARCHITECT  
APP: 03-123063 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☐  
DATE: 09/13/2023

DSA Stamp

Architect



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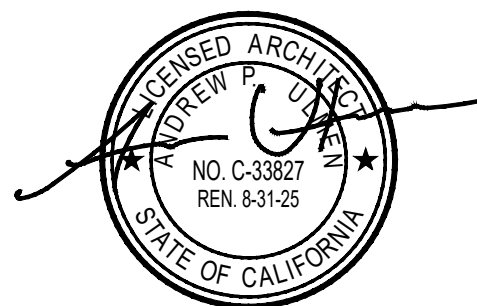
# Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev	Date	Issue
	03.06.23	DSA SUBMITTAL
	09.08.23	DSA BACKCHECK

Date: 08.18.2023  
Scale: As Shown  
Drawn By: AF  
Checked By: AC, AF

Architect / Engineer Stamp



## Consultants

Sheet Title

## Sheet Index

Sheet Number

# G101



## ACCESSIBILITY NOTES

### 1. SIGNAGE AND ACCESSIBLE PARKING:

EACH PARKING SPACE RESERVED FOR PERSONS WITH PHYSICAL DISABILITIES SHALL BE IDENTIFIED BY A RECTANGLORED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO, AND VISIBLE FROM, EACH STALL OR SPACE, CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 SQUARE INCHES IN AREA AND, WHEN IN THE PATH OF TRAVEL, SHALL BE POSTED AT A MINIMUM HEIGHT OF 80 INCHES FROM THE PARKING SPACE FINISHED GRADE, GROUND OR SIDEWALK.

AN ADDITIONAL SIGN SHALL ALSO BE POSTED, IN A CONSPICUOUS PLACE, AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES. THE SIGN SHALL NOT BE LESS THAN 17" X 22" IN SIZE WITH LETTERING NOT LESS THAN 1 INCH IN HEIGHT, WHICH CLEARLY AND CONSPICUOUSLY STATES THE FOLLOWING:

"UNAUTHORIZED VEHICLES PARKING IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR LICENSE PLATES ISSUED FOR PHYSICALLY DISABLED PERSONS MAY BE RECLAIMED AT \_\_\_\_\_ BY TELEPHONING \_\_\_\_\_."

THE CONTRACTOR SHALL VERIFY THE NAME AND PHONE NUMBER OF THE TOWING SERVICE WITH THE OWNER PRIOR TO MANUFACTURING ANY TOWING SIGNS. INFORMATION SHALL BE PERMANENT PART OF THE SIGN. SURFACE SLOPES OF PARKING SPACES AND ACCESS AISLES FOR THE PHYSICALLY DISABLED SHALL NOT EXCEED 1:48 (2%) GRADIENT IN ANY DIRECTION.

A DISABLED PARKING SPACE SHALL BE LOCATED SO AS NOT TO REQUIRE ITS USER TO WHEEL OR WALK BEHIND ANY OTHER DISABLED OR NON-DISABLED PARKING SPACE OTHER THAN THEIR OWN.

### 2. SITE WALKWAYS AND ACCESSIBLE ROUTES:

PEDESTRIAN WAYS WHICH ARE ACCESSIBLE TO THE PHYSICALLY DISABLED SHALL BE PROVIDED FROM EACH DISABLED PARKING SPACE TO RELATED FACILITIES, INCLUDING CURB CUTS OR RAMPS AS NEEDED.

WALKS AND SIDEWALKS SUBJECT TO THESE REGULATIONS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR ABRUPT CHANGES IN LEVEL EXCEEDING 1/2 INCH AND SHALL BE A MINIMUM 48 INCHES IN WIDTH. WALKS SHALL BE SLIP RESISTANT AT LEAST AS SLIP RESISTANT AS THAT DESCRIBED AS A MEDIUM SALT FINISH. PER CBC 11B-302.1.

SURFACE CROSS SLOPES SHALL NOT EXCEED 1:48 (2%) GRADIENT PER CBC 11B-403.3 WALKS, SIDEWALKS AND PEDESTRIAN WAYS SHALL BE FREE OF GRATINGS WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS SHALL BE LIMITED TO 1/2 INCH IN THE DIRECTION OF TRAFFIC FLOW PER CBC 11B-302.3.

ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2 INCH. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 EXCEPT THAT LEVEL CHANGES EXCEEDING 1/4 INCH MAY BE VERTICAL PER CBC 11B-302.3 AND 11B-303.5.

WHEN CHANGES IN LEVEL GREATER THAN 1/2 INCH OCCUR OR ARE NECESSARY, THEY SHALL COMPLY WITH THE REQUIREMENTS FOR RAMPS, AS REQUIRED.

WALKS SHALL BE PROVIDED WITH A LEVEL AREA NOT LESS THAN 60 INCHES BY 60 INCHES AT A DOOR OR GATE THAT SWINGS TOWARD THE WALK, AND NOT LESS THAN 60 INCHES WIDE BY 48 INCHES DEEP AT A DOOR OR GATE THAT SWINGS AWAY FROM THE WALK. SUCH WALKS SHALL EXTEND 24 INCHES TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARD THE WALK.

ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE LEVEL AREAS AT LEAST 5 FEET IN LENGTH AT INTERVALS OF AT LEAST EVERY 400 FEET.

ANY ACCESSIBLE ROUTE SHALL BE CONSIDERED A RAMP IF ITS SLOPE IS GREATER THAN 1 FOOT RISE IN 20 FEET OF HORIZONTAL RUN.

ACCESSIBLE ROUTES LESS THAN 60 INCHES CLEAR WIDTH SHALL HAVE 60 INCH BY 60 INCH PASSING SPACES LOCATED AT INTERVALS NOT TO EXCEED 200 FEET.

ALL PRIMARY ENTRANCES SHALL BE MADE ACCESSIBLE TO THE PHYSICALLY DISABLED PER CBC 11B-206.2.1; 11B-206.2.2; 11B-206.2.4; 11B-206.4; 11B-404.2.3.

ALL ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.

FLOOR SURFACES SHALL BE SLIP-RESISTANT WITH A STATIC COEFFICIENT OF FRICTION OF 0.5 MINIMUM.

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%. UNLESS OTHERWISE INDICATED, ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

### 3. DOORS:

LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE ON AN ACCESSIBLE ROUTE, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.

HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30 INCHES AND 44 INCHES ABOVE THE FLOOR.

THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH IN THE DIRECTION OF THE DOOR SWING OF AT LEAST 60 INCHES AND THE LENGTH OPPOSITE THE DOOR SWING OF 48 INCHES AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION.

THE WIDTH OF THE LEVEL AND CLEAR ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24 INCHES PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18 INCHES PAST THE STRIKE EDGE FOR INTERIOR DOORS.

THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOORWAY. THE CHANGE IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2, CBC 11B-404.2.5.

THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH AND UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY THE DOOR. IF THE DOOR IS A SLIDING DOOR, THE DOOR SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.

MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS. SUCH PUSH OR PULL EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC OPENERS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE AUTHORITY HAVING JURISDICTION, MAY INCREASE THE MAXIMUM EFFORT TO OPERATE FIRE DOORS TO ACHIEVE POSITIVE LATCHING, BUT NOT TO EXCEED 15 LBS MAX. PER CBC 11B-404.2.9.

### 4. TOILET ROOMS:

LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 29 INCHES FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH KNEE CLEARANCE UNDER THE FRONT UP EXTENDING A MINIMUM OF 30 INCHES IN WIDTH WITH 8 INCHES MINIMUM DEPTH AT THE TOP. TOE CLEARANCE SHALL BE THE SAME WIDTH AND SHALL BE A MINIMUM OF 9 INCHES HIGH FROM THE FLOOR AND A MINIMUM OF 17 INCHES DEEP FROM THE FRONT OF THE LAVATORY PER CBC 11B-306 AND 11B-606.

A PROJECTION OF THE LAVATORY BOWL INTO THE 8 INCH CLEAR SPACE, THEREBY REDUCING THE CLEAR HEIGHT BELOW THE LAVATORY TO NO LESS THAN 27 INCHES BACK FROM THE APRON, MEETS THE REQUIREMENTS FOR PROVIDING KNEE CLEARANCE PER CBC 11B-306.3.3.

HOT WATER AND DRAIN PIPES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES PER CBC 11B-606.5.

FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER-OPERATED, PUSH-TYPE AND ELECTRONICALLY-CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS. (FOR BATHROOMS AND KITCHENS).

LOCATE TOWEL, SANITARY NAPKIN, AND WASTE RECEPTACLES WITH ALL OPERABLE PARTS NOT MORE THAN 40 INCHES FROM THE FLOOR.

THE DIAMETER OR WIDTH OF THE GRIPPING SURFACE OF A GRAB BAR SHALL BE 1-1/4 INCHES TO 1-1/2 INCHES OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.

IF THE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2 INCHES. REFER TO GRAB BAR DETAILS.

A GRAB BAR AND ANY WALL OR SURFACE NEXT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.

THE FRONT PARTITION AND AT LEAST ONE SIDE PARTITION SHALL PROVIDE A MINIMUM TOE CLEARANCE OF AT LEAST 9 INCHES ABOVE THE FLOOR. TOE CLEARANCE IS NOT REQUIRED FOR STALLS WITH A DEPTH GREATER THAN 60 INCHES.

THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN THESE BUILDING STANDARDS. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B.

TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRIPPING, PINCHING OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS. NO MORE THAN 44-INCHES ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS.

BOTTOM OF ALL MIRRORS AT LAVATORIES SHALL BE AT 40" MAX. A.F.F. PER CBC 11B-603.3.

VANITIES AND LAVATORIES SHALL BE INSTALLED WITH THE CENTERLINE OF THE FIXTURE A MINIMUM OF 18" HORIZONTALLY FROM AN ADJOINING WALL OR FIXTURE. IF KNEESPACE IS PROVIDED BELOW THE VANITY, THE BOTTOM OF THE APRON MUST AT LEAST 2'-5" ABOVE THE FLOOR. IF PROVIDED, FULL KNEESPACE SHALL BE AT LEAST 17" DEEP.

### 5. DEVICE CONTROLS:

THE CENTER OF THE FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED 48 INCHES ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK.

THE CENTER GRIP OF THE OPERATING HANDLES OF THE CONTROLS OR SWITCHES TO CONTROL LIGHTING AND RECEPTACLES OUTLETS, APPLIANCES, THERMOSTAT, AND OTHER ENVIRONMENT CONTROLS SHALL BE LOCATED NO HIGHER THAN 48 INCHES AND NO LOWER THAN 15 INCHES ABOVE THE FLOOR. IF THE REACH IS OVER AN OBSTRUCTION BETWEEN 20 AND 28 INCHES IN DEPTH, THE MAXIMUM HEIGHT IS REDUCED TO 44 INCHES FOR FORWARD APPROACH, OR 46 INCHES FOR SIDE APPROACH PROVIDED THE OBSTRUCTION IS NO MORE THAN 24 INCHES IN DEPTH. OBSTRUCTION MAY NOT EXTEND MORE THAN 25 INCHES FROM THE WALL BENEATH A CONTROL PER CBC 11B-308.2 AND 11B-308.3.

IF EMERGENCY WARNING SYSTEMS ARE REQUIRED OR PROVIDED, THEY SHALL ACTIVATE A MEANS OF WARNING THE HEARING-IMPAIRED. FLASHING VISUAL ALARMS SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE, A MAXIMUM PULSE DURATION OF 0.2 SECOND CLEAR OR NOMINAL WHITE XENON STROBE TYPE LAMP WITH AN INTENSITY OF .75 CANDELA AND SHALL BE PLACED 80 INCHES ABOVE THE HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6 INCHES BELOW THE CEILING, WHICHEVER IS LOWER.

## SCHOOL DISTRICT NOTES

- THIS PROJECT IS ON AN OCCUPIED CAMPUS. CAMPUS ACTIVITIES TAKE PRECEDENCE OVER CONSTRUCTION ACTIVITIES. ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN FENCED OR BARRICADED AREAS IN ACCORDANCE WITH PROJECT SPECIFICATION AND SCHEDULE REQUIREMENTS. CERTAIN CONSTRUCTION ACTIVITIES THAT GENERATE DISRUPTIVE NOISE, ODORS, DUST AND DEBRIS MUST BE SCHEDULED WHEN THE CAMPUS IS NOT OCCUPED.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE AND SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE CONSTRUCTION MANAGER BY MEANS OF AN REQUEST FOR INFORMATION (RFI) OR AS PART OF THE APPLICABLE SHOP DRAWINGS OR SUBMITTALS.
- SPECIFIC ITEMS NOTED TO BE VERIFIED OR FIELD VERIFIED ARE REQUIRED TO BE VERIFIED PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF THE NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL AND/OR REINSTALLATION OF ALL EXISTING ITEMS, OF PORTIONS OF THE EXISTING CONSTRUCTION WHETHER SHOWN OR NOT.

## DSA NOTES

- ALL WORK SHALL CONFORM TO 2022 EDITION, CALIFORNIA BUILDING CODE, TITLE 24, CALIFORNIA CODE OF REGULATIONS.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE CONSTRUCTION, ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD CATEGORY A) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO, AND APPROVED BY, THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK. REFERENCE SECTION 4-338 (c) CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1), TITLE 24, CCR.
- THE SCHOOL DISTRICT (OWNER) SHALL EMPLOY A DSA (DIVISION OF THE STATE ARCHITECT) CERTIFIED AND APPROVED PROJECT INSPECTOR WITH CLASS I CERTIFICATION TO PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
- THE SCHOOL DISTRICT (OWNER) SHALL DIRECTLY EMPLOY A DSA-ACCEPTED TESTING LABORATORY, WHICH WILL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS (NOT OTHERWISE PERFORMED BY THE PROJECT INSPECTOR) FOR THE PROJECT.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. ARCHITECT'S SUPPLEMENTARY INSTRUCTIONS (ASI) ARE PROVIDED WITH THE CCDS. CHANGES AFFECTING STRUCTURE, ACCESS OR FIRE-LIFE SAFETY (CCD CATEGORY A) SHALL BE SUBMITTED AND APPROVED BY DSA. CHANGES NOT AFFECTING STRUCTURE, ACCESS OR FIRE-LIFE SAFETY (CCD CATEGORY B) DO NOT REQUIRE DSA APPROVAL UNLESS SPECIFICALLY REQUIRED BY DSA IN WRITING.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- CUTTING, BORING, SAW CUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND STRUCTURAL ENGINEER WITH THE APPROVAL OF A DSA REPRESENTATIVE.

## GENERAL NOTES

### 1. VARIANCES BETWEEN ACTUAL CONDITIONS AND DRAWINGS

A. THE OWNER OR THE OWNERS DESIGNATED REPRESENTATIVE, AND THE OWNERS CONSULTANTS WILL ASSUME NO RESPONSIBILITY FOR VARIANCES BETWEEN ACTUAL EXISTING CONDITIONS AND CONDITIONS DEPICTED AS EXISTING ON THE DRAWINGS.

B. THE CONTRACTOR SHALL INSPECT THE SITE AND THE BUILDINGS, AND SHALL VERIFY TO HIS OWN SATISFACTION THE CONDITIONS SHOWN ON THE DRAWINGS, WHICH MATERIALLY AFFECT THE CONTRACTORS ABILITY TO EXECUTE THE WORK. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE OWNER OR THE OWNERS DESIGNATED REPRESENTATIVE AND THE ARCHITECT, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE DRAWINGS.

C. THE CONTRACTOR SHALL ASSUME THAT THERE MAY BE MINOR DIFFERENCES BETWEEN ACTUAL FIELD CONDITIONS AND CONDITIONS DEPICTED AS EXISTING ON THE DRAWINGS. THE OWNER WILL NOT CONSIDER REQUESTS FROM THE CONTRACTOR FOR ADDITIONAL CHARGES DUE TO SAID MINOR DISCREPANCIES.

D. IF THE CONTRACTOR ENCOUNTERS MAJOR DIFFERENCES BETWEEN ACTUAL FIELD CONDITIONS AND CONDITIONS DEPICTED AS EXISTING ON THE DRAWINGS, THE CONTRACTOR SHALL STOP WORK IN THE AFFECTED AREA, AND SHALL IMMEDIATELY NOTIFY THE OWNER OR OWNERS DESIGNATED REPRESENTATIVE OF SAID DIFFERENCES. THE OWNER OR OWNERS DESIGNATED REPRESENTATIVE WILL PROVIDE INSTRUCTIONS FOR PROCEEDING IN THE AFFECTED AREA. THE CONTRACTOR SHALL PROCEED WITH ALL OTHER WORK ITEMS AS REQUIRED BY THE CONTRACT DOCUMENTS.

### 2. INTENT OF THE DRAWINGS

A. THE NOTES DESCRIBING THE SCOPE OF THE WORK ARE INTENDED TO OUTLINE THE NATURE AND EXTENT OF THE WORK. OTHER PARTS OF THE CONTRACT DOCUMENTS, INCLUDING THE DRAWINGS AND SPECIFICATIONS, MAY SHOW AND/OR REFERENCE WORK NOT INCLUDED IN THE NOTES.

B. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE CONDITIONS THEREON, AND THOROUGHLY ACQUAINT HIMSELF WITH OBSTACLES AND ADVANTAGES TO PERFORMING THE WORK. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS, AS THERE ARE REQUIREMENTS SHOWN THEREIN THAT SIGNIFICANTLY AFFECT THE SCOPE OF THE WORK. NO ADDITIONAL CHARGES WILL BE CONSIDERED FOR WORK CAUSED BY THE CONTRACTORS UNFAMILIARITY WITH THE SITE, AND THE DRAWINGS AND SPECIFICATIONS, OR FAILURE OF THE OWNER OR THE OWNERS DESIGNATED REPRESENTATIVE OR OWNERS CONSULTANTS TO ENUMERATE THE COMPLETE SCOPE OF WORK, AS REQUIRED BY THE CONTRACT DOCUMENTS, IN THE SCOPE OF WORK NOTES.

C. THE INTENT OF THE DRAWINGS IS THAT ALL ALTERATIONS SHALL CONFORM TO TITLE 24, 2019 CALIFORNIA CODE OF REGULATIONS (CCR), SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCONFORMING CONSTRUCTION BE DISCOVERED, WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS, WHEREIN THE FINISHED WORK WOULD NOT CONFORM TO TITLE 24, 2-13 CCR, A CHANGE ORDER OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO, AND APPROVED BY, THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK. REFERENCE SECTION 4-338 (c) CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1), TITLE 24, CCR.

D. UNLESS NOTED AS EXISTING OR BY OTHERS, ALL WORK DEPICTED ON THE DRAWINGS OR IN THE SPECIFICATIONS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

E. THE CONTRACTOR SHALL VERIFY ALL SIZES OR PREPARATORY WORK FOR EQUIPMENT OF OTHERS AND SHALL COORDINATE THE WORK ON THIS CONTRACT WITH ALL WORK FURNISHED BY OTHERS.

### 3. GENERIC NAMES

THE DRAWINGS IDENTIFY MATERIALS BY GENERIC NAME, UNLESS PREFACED WITH "BASIS OF DESIGN". FOR A DESCRIPTION OF APPROVED MATERIALS AND INSTALLATION PROCEDURES SEE THE SPECIFICATIONS.

### 4. COLORS AND FINISHES

UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE SELECTION OF COLORS AND TEXTURES FOR FINISH MATERIALS SHALL BE PROVIDED BY THE ARCHITECT PRIOR TO EXECUTION OF THE WORK.

### 5. PROJECT COORDINATION

SEE THE GENERAL CONDITIONS, THE SUPPLEMENTARY CONDITIONS AND DIVISION 1 OF THE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS RELATED TO PROJECT COORDINATION.

### 6. CODES AND REGULATIONS

ALL CONSTRUCTION SHALL FULLY COMPLY WITH THE LOCAL BUILDING CODES AND REGULATIONS. ALL WORK SHALL ALSO CONFORM TO TITLE 24, 2019 CALIFORNIA CODE OF REGULATIONS (CCR).

### 7. PERMITS

A. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY GOVERNING AUTHORITIES FOR THE COMPLETION OF THE WORK. THE FEES, CHARGES OR OTHER COSTS PAID BY THE CONTRACTOR FOR SAID PERMITS WILL BE REIMBURSED TO THE CONTRACTOR BY THE OWNER IN THE AMOUNTS SO PAID.

B. THE CONTRACTOR SHALL PROCURE ALL NOTICES AND LICENSES REQUIRED FOR THE COMPLETION OF THE WORK. THE COST OF THESE NOTICES AND LICENSES IS INCIDENTAL TO OTHER ITEMS OF WORK AND NO ADDITIONAL PAYMENT WILL BE MADE FOR COSTS INCURRED BY OBTAINING NOTICES AND LICENSES OR IN CONFORMING TO THE REQUIREMENTS THEREOF.

C. TRENCHES OR EXCAVATIONS 5 FEET OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND, REQUIRE A SEPARATE PERMIT FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY.

D. PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THE CONTRACTOR SHALL HAVE EVIDENCE OF CURRENT WORKMAN'S COMPENSATION INSURANCE COVERAGE.

### 8. GENERAL CONDITIONS

THE GENERAL CONDITIONS AND ANY SUPPLEMENTAL CONDITIONS WHICH MAY BE ATTACHED OR INCLUDED AS PART OF OWNER - CONTRACTOR AGREEMENT ARE A PART OF THESE CONTRACT DOCUMENTS.

### 9. THE SPECIFICATIONS

SPECIFICATIONS, WHICH ARE BOUND SEPARATELY, ARE PART OF THE CONTRACT. REFERENCE TO SECTIONS OF THE SPECIFICATIONS IN THE NOTES DESCRIBING THE SCOPE OF WORK ARE INTENDED AS A GUIDE ONLY AND TO ASSIST THE CONTRACTOR IN UNDERSTANDING THE COMPLETE SCOPE OF WORK.

### 10. BIDDING

ALL CONTRACTORS, SUB OR GENERAL, BIDDING OR CONSTRUCTING ANY PORTION OF THIS PROJECT, SHALL BE HELD TO BE RESPONSIBLE TO REVIEW AND INCLUDE IN ANY BID SUBMITTED, ALL OTHER DRAWINGS AND SPECIFICATIONS, WHICH FORM A PART OF THESE CONSTRUCTION DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ARCHITECTURAL, GENERAL, NOTES, CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND EQUIPMENT PLANS AS THEY APPLY TO SAID TRADE BIDDING.

### 11. VERIFICATION

THE CONTRACTOR SHALL VERIFY ALL SIZES OR PREPARATORY WORK FOR EQUIPMENT OF OTHERS AND SHALL COORDINATE THE WORK ON THIS CONTRACT WITH ALL WORK FURNISHED BY OTHERS.

### 12. DISCREPANCIES

A. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND ALL EXISTING CONDITIONS AT THE SITE BEFORE COMMENCING WORK, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF WORK.

B. IF ANY ERRORS OR OMISSION APPEAR IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH ERRORS OR OMISSIONS. IF THE CONTRACTOR FAILS TO GIVE SUCH NOTICE IMMEDIATELY, HE WILL BE HELD RESPONSIBLE FOR THE RESULTS OF SUCH ERRORS OR OMISSIONS AND FOR THE COST OF RECTIFYING SAME.

C. IN CASE OF DISCREPANCIES BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, THE ARCHITECT WILL DETERMINE THE CORRECT INTENT OF THE WORK.

D. SHOULD THE DRAWINGS IN THEMSELVES OR WITH THE SPECIFICATIONS OR SHOULD THE SPECIFICATIONS IN THEMSELVES DISAGREE, THE HIGHER QUALITY AND / OR GREATER QUANTITY OF WORK OR MATERIAL SHALL BE INSTALLED UPON, AND UNLESS OTHERWISE CLARIFIED IN WRITINGS BY THE ARCHITECT, SHALL BE FURNISH AND INSTALLED.

### 13. DESIGN INTENT

THE CONTRACTOR SHALL NOT DEViate FROM THE DESIGN INTENT AND CONSTRUCTION DETAILS WITHOUT OBTAINING PRIOR APPROVAL FROM THE OWNER AND THE ARCHITECT.

### 14. DETAILS

DETAILS ARE NOT INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING THE WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT THE JOB DIMENSIONS OR CONDITIONS AND SHALL BE INCLUDED AS PART OF THE WORK.

### 15. DIMENSIONS

DIMENSIONS ARE TO FACE OF STUD (FOS), FACE OF CONCRETE (FOC) OR FACE OF MASONRY (FOM) UNLESS NOTED OTHERWISE. DIMENSIONS AS SHOWN TAKE PRECEDENCE OVER ANY CONDITIONS GRAPHICALLY SHOWN ON THE DRAWINGS. DO NOT SCALE THE DRAWINGS. WHEN IN DOUBT, ASK THE ARCHITECT FOR A CLARIFICATION.

### 16. DEFINITIONS

"TYPICAL" MEANS ALL, EXCEPT AS SPECIFICALLY NOTED. "SIMILAR" MEANS THERE ARE SLIGHT VARIATIONS AMONG CONDITIONS WHERE THE DETAIL OCCURS.

### 17. DAMAGE AND THEFT

ANY WORK OR MATERIALS OF ONE TRADE DAMAGED BY ANOTHER TRADE BECOMES THE RESPONSIBILITY OF THE OFFENDING TRADE. THE DAMAGED WORK SHALL BE REPAIRED OR REPLACED BY THE ORIGINAL INSTALLER AND THE COSTS BORNE BY THE OFFENDER. ANY MATERIALS STOLEN FROM THE PREMISES OR DAMAGED EITHER BEFORE OR AFTER INSTALLATION SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS SUCH AS BARRICADES, GUARDS, ETC., AS REQUIRED TO PREVENT DAMAGE AND THEFT. SPECIAL CARE SHALL BE TAKEN TO PROTECT WORK IN PLACE, MATERIALS AND EQUIPMENT STORED, ETC., FROM THEFT AND VANDALISM.

### 18. PROTECTION OF EXISTING UTILITIES

THE CONTRACTOR SHALL MAINTAIN THE UTILITIES TO THE EXISTING BUILDING OR PROVIDE TEMPORARY SERVICE CONNECTIONS AS REQUIRED.

### 19. COORDINATION OF THE WORK AND TRADES

A. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY ARRIVAL OF ALL SPECIFIED FINISH MATERIALS, EQUIPMENT, LIGHT FIXTURES AND OTHER SUCH MATERIALS) TO BE UTILIZED ON THIS PROJECT. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING WITHIN 30 DAYS OF THE DATE OF CONTRACT OF THOSE SPECIFIED ITEMS THAT MAY NOT BE READILY AVAILABLE AND OF EQUAL QUANTITY AND DESCRIPTION. IF NOTIFICATION IS NOT RECEIVED BY THE ARCHITECT, THE CONTRACTOR SHALL ACCEPT RESPONSIBILITY FOR THE PROPER ORDERING AND FOLLOW UP ON SPECIFIED ITEMS AND SHALL PURSUE WHATEVER MEANS NECESSARY AT NO ADDITIONAL COST TO THE OWNER, TO INSURE AVAILABILITY OF ALL SPECIFIED ITEMS SO AS NOT TO CREATE A HARDSHIP ON THE OWNER AND NOT TO DELAY PROGRESS OF THE WORK. NO EXTENSION OF TIME TO THE CONTRACT WILL BE ALLOWED FOR THE CONTRACTORS INABILITY TO SECURE SPECIFIED ITEMS.

B. CONTRACTOR SHALL PROVIDE AND LOCATE ACCESS PANELS AS REQUIRED AFTER INSTALLATION OF MECHANICAL DUCTS, PLUMBING AND ELECTRICAL WORK. COORDINATE WITH ARCHITECT. CONTRACTOR SHALL PROVIDE A LAYOUT OF ALL ACCESS PANELS TO THE OWNER, OWNERS REPRESENTATIVE AND ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF EQUIPMENT REQUIRING SAID ACCESS PANELS.

C. WHERE FACTORY FINISHED OR FACTORY PRIMED ITEMS OCCUR, SUCH AS GRILLS, DIFFUSERS, METAL TRIM AND ACCESSORIES, ETC., THEY SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE AS DIRECTED BY THE ARCHITECT.

D. CONTRACTOR SHALL COORDINATE THE WORK AMONG ALL TRADES RELATING TO THE MOUNTING AND ATTACHMENTS OF ALL EQUIPMENT AS REQUIRED.

E. CONTRACTOR SHALL PROVIDE AND COORDINATE THE EXACT DIMENSIONS, SIZES AND POSITIONS OF OPENINGS IN SLABS AND WALLS NECESSARY FOR THE INSTALLATION OF THE WORK.

F. CONTRACTOR SHALL PROVIDE MOUNTING PLATES AS REQUIRED BEHIND ALL WALL-MOUNTED ITEMS SUCH AS HANDRAILS, TOILET PARTITIONS, TOILET ROOM ACCESSORIES, LIGHT FIXTURES, ETC..

### 20. DUST CONTROL AND INTERIOR BARRICADES

CONTRACTOR SHALL MAINTAIN CONTINUOUS DUST ABATEMENT PROCEDURES INCLUDING VACUUMING, TRASH REMOVAL AND MATS AT ALL ENTRIES TO THE CONSTRUCTION AREA. PROVIDE EFFECTIVE DUST CONTROL BY MEANS OF FREQUENT SPRINKLING AND WATERING. THE CONTRACTOR SHALL PROVIDE EFFECTIVE INTERIOR DUST ABATEMENT PROCEDURES INCLUDING TRASH REMOVAL, VACUUMING AND WALK-OFF MATS AT ALL ENTRIES TO THE BUILDING.

### 21. CLEANUP

CONTRACTOR SHALL AT ALL TIMES KEEP THE SITE CLEAN AND FREE OF ALL WASTE MATERIAL AND RUBBISH CAUSED BY HIS OPERATIONS. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS AND RUBBISH FROM AND ABOUT THE PROJECT AS WELL AS ALL TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIALS. THE JOB SITE SHALL BE LEFT CLEAN AND ORDERLY AT THE END OF EACH DAY.

### 22. FIRE RATING OF ASSEMBLIES

WHERE WALLS, PARTITIONS, FLOOR AND ROOF SYSTEMS ARE IDENTIFIED AS RATED ASSEMBLIES, PROVIDE APPROVED FIRE RATED SEALANTS AND OR SAFING (MINERAL FIBER) AT BOUNDARIES, JOINTS, AND PENETRATIONS, GYPSUM BOARD BACKING (DOG-HOUSE) AT RECESSED COMPONENTS; METAL RETAINERS; AND OTHER MATERIALS REQUIRED TO MAINTAIN THE INDICATED RATING FOR THE ASSEMBLY.

### 23. EXISTING STRUCTURES

BUILDINGS AND STRUCTURES, AND PARTS THEREOF, SHALL BE MAINTAINED IN A SAFE AND SANITARY CONDITION. DEVIATION FROM THIS CODE SHALL BE MAINTAINED IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA RESIDENTIAL CODE, AND CALIFORNIA ELECTRICAL CODE. 2019 CBC SECTION 3401A.3

ALTERATIONS, REPAIRS, ADDITIONS AND CHANGES OF OCCUPANCY TO EXISTING STRUCTURES SHALL COMPLY WITH THE PROVISIONS FOR ALTERATIONS, REPAIRS, ADDITIONS AND CHANGES OF OCCUPANCY IN THE CALIFORNIA FIRE CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA RESIDENTIAL CODE, AND CALIFORNIA ELECTRICAL CODE. 2019 CBC SECTION 3401A.3

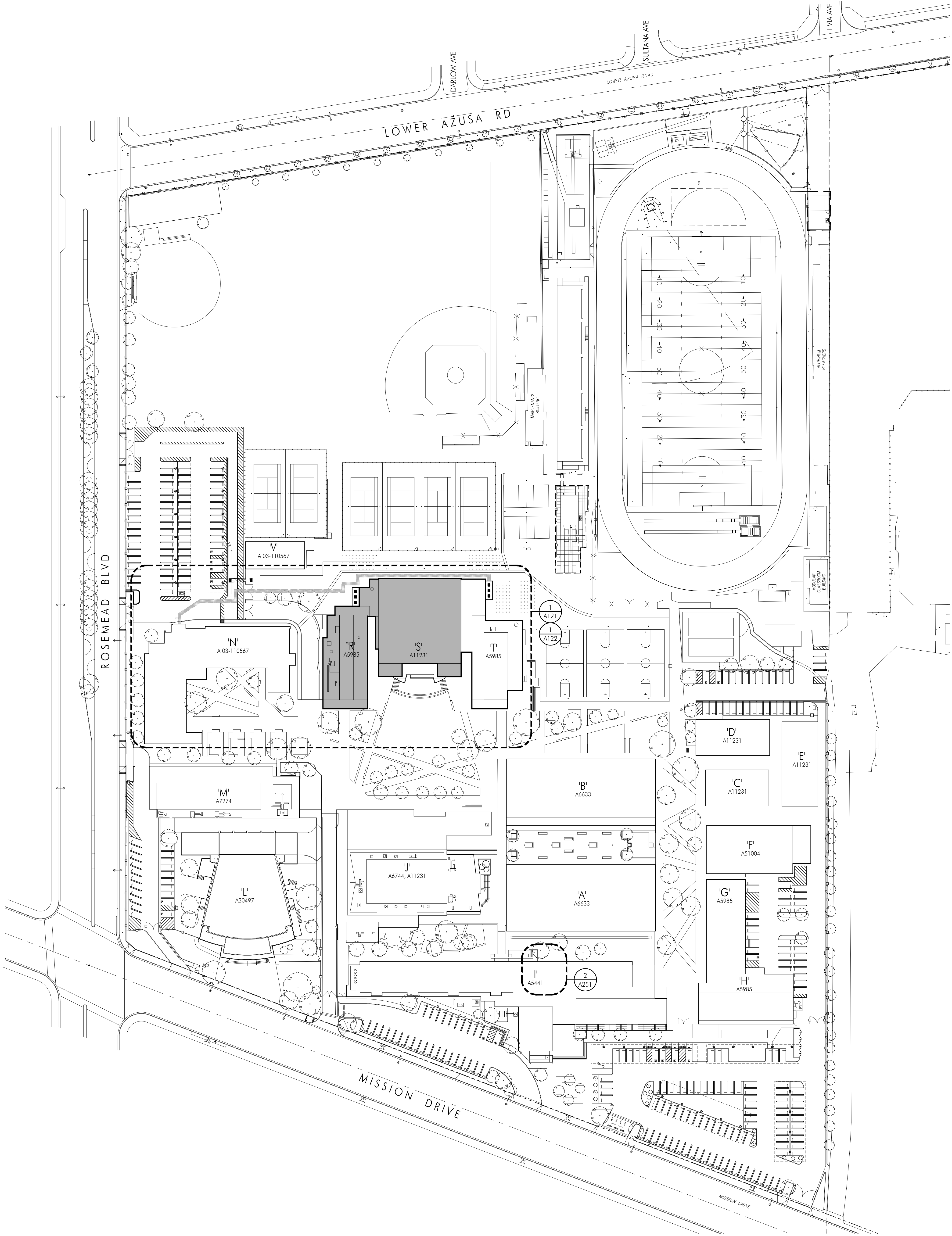
### 24. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

CONTRACTOR SHALL COMPLY WITH CHAPTER 33 OF THE CALIFORNIA FIRE CODE DURING THE COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.

## RENOVATION NOTES

- THIS PROJECT IS AN OCCUPIED HIGH SCHOOL CAMPUS. DISTRICT ACTIVITIES TAKES PRECEDENT OVER CONSTRUCTION ACTIVITIES. ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN FENCED OR BARRICADED AREAS IN ACCORDANCE WITH PROJECT SPECIFICATION AND SCHEDULE REQUIREMENTS.
- THIS IS AN EXISTING FACILITY RENOVATION PROJECT. ALL WORK SHOWN, NOTED OR DETAILED IS NEW, EXCEPT WHERE INDICATED AS EXISTING OR AS EXISTING TO REMAIN.
- SPECIFIC ITEMS NOTED TO BE VERIFIED OR FIELD VERIFIED ARE REQUIRED TO BE VERIFIED PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF THE NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL AND/OR REINSTALLATION OF ALL EXISTING ITEMS, OF PORTIONS OF THE EXISTING CONSTRUCTION WHETHER SHOWN OR NOT.
- PRIOR TO STARTING WORK, THE CONTRACTOR SHALL REQUEST THE CONSTRUCTION MANAGER TO SCHEDULE A TEAM MEETING WITH ALL SUBCONTRACTORS, THE PROJECT INSPECTOR, AND THE DESIGNATED DISTRICT REPRESENTATIVES TO SURVEY EXISTING EQUIPMENT OPERATIONS. THE OBJECTIVE IS TO DETERMINE THE OPERABILITY OF ALL EXISTING TELEPHONE SYSTEM, INTRUSION ALARM SYSTEM, AND ANY OTHER DEVICES AND EQUIPMENT THAT ARE TO REMAIN AFTER WORK COMPLETION. THE CONSTRUCTION MANAGER SHALL PREPARE A WRITTEN REPORT DOCUMENTING TEAM FIELD INVESTIGATION AND NOTING ANY EXISTING ITEMS THAT ARE DAMAGED OR NON-FUNCTIONAL. PRIOR TO OCCUPANCY ANOTHER SURVEY WILL BE CONDUCTED WITH THE SAME TEAM TO DETERMINE IF ANY ITEM HAS BEEN DAMAGED OR MADE INOPERABLE. IN THE EVENT THAT SOMETHING HAS BEEN DAMAGED THE GENERAL CONTRACTOR WILL BE REQUIRED TO CORRECT THE PROBLEM WITH APPROVED, QUALIFIED TECHNICIANS.
- PRIOR TO THE START OF THE WORK, THE CONSTRUCTION MANAGER WILL SCHEDULE THE DISTRICT TO IDENTIFY AND TAG ALL EXPOSED WIRING. THE GENERAL CONTRACTOR SHALL REMOVE ANY WIRING AS ABANDONED. ANY WIRING IDENTIFIED TO REMAIN SHALL BE PROTECTED AGAINST DAMAGE DURING CONSTRUCTION AND INSPECTED FOR DAMAGE AT WORK COMPLETION.
- PRIOR TO SITE MOBILIZATION, THE GENERAL CONTRACTOR, THE CONSTRUCTION MANAGER AND THE PROJECT INSPECTOR SHALL MEET ON SITE AND DOCUMENT THE EXISTING CONDITIONS OF THE CONTRACTORS CORPORATION YARD AREA OR VEHICLE TRAFFIC IS ANTICIPATED. AT PROJECT COMPLETION ALL AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING BUT NOT LIMITED TO REPAIRING

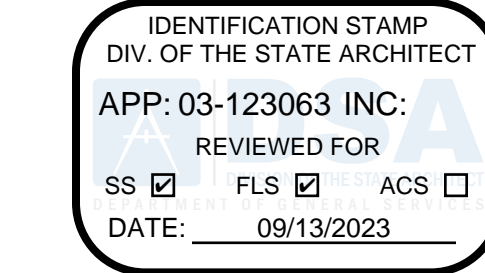




GENERAL NOTES:

1. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.

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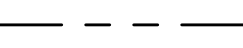
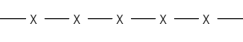
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SYMBOL LEGEND:

-  HATCHED AREA INDICATES AREA OF REMOVAL AND REPLACEMENT OF ROOFING SEE ROOF PLANS A241 AND A242 FOR MORE INFORMATION.
-  PROPERTY LINE
-  EXISTING CHAIN LINK FENCE

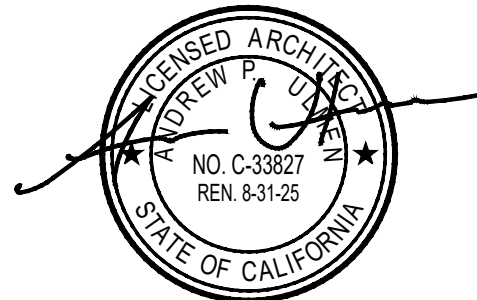
Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev	Date	Issue
03.06.23	03.06.23	DSA SUBMITTAL
09.08.23	09.08.23	DSA BACKCHECK

Date: 08.18.2023  
Scale: As Shown  
Drawn By: AF  
Checked By: AC, AF

Architect / Engineer Stamp



Consultants

Sheet Title

Site Plan

Sheet Number

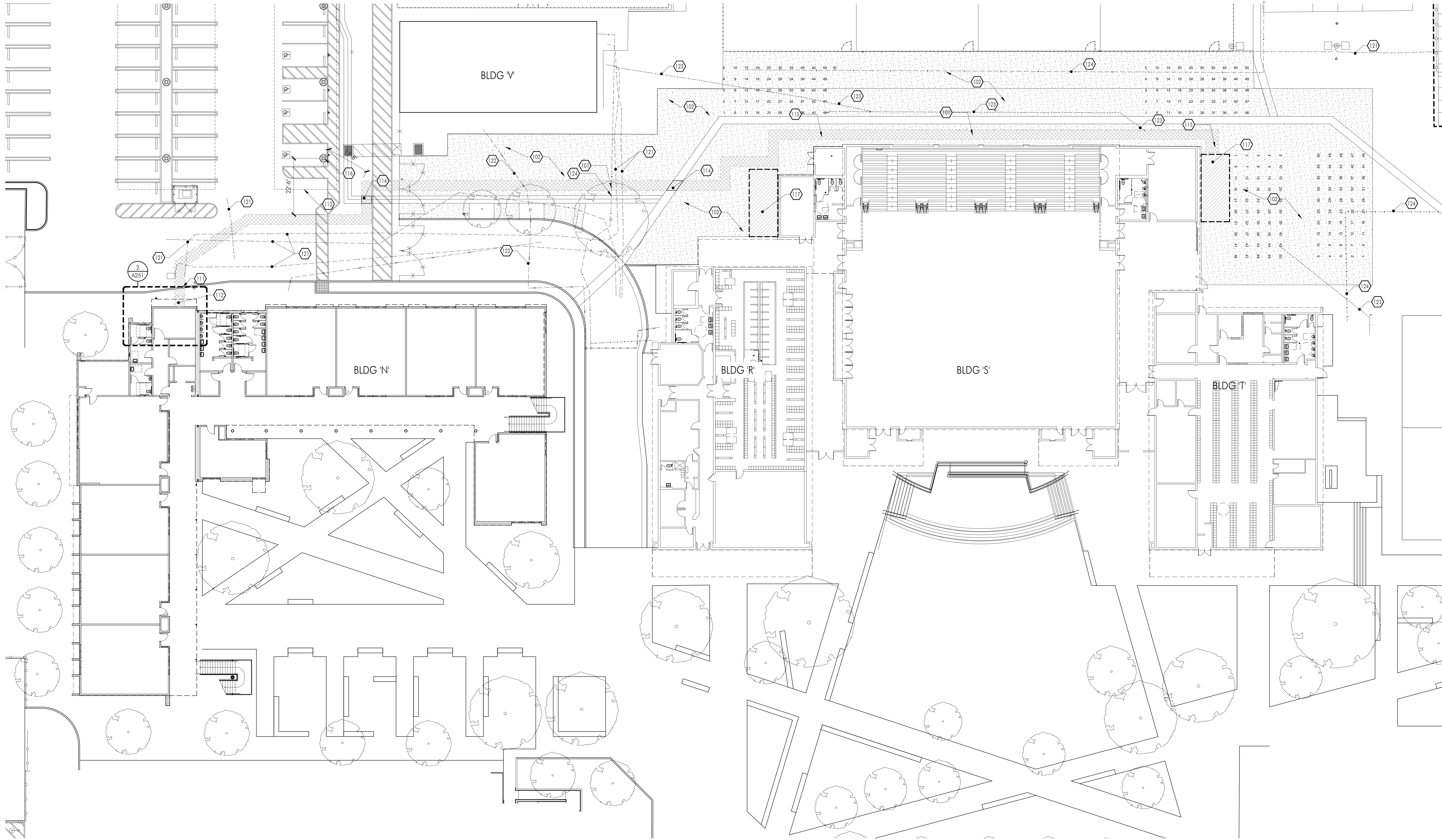
A111



SCALE: 1"=60'-0"



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Enlarged Site.dwg



1 ENLARGED DEMOLITION SITE PLAN

SCALE: 1/16"=1'-0"

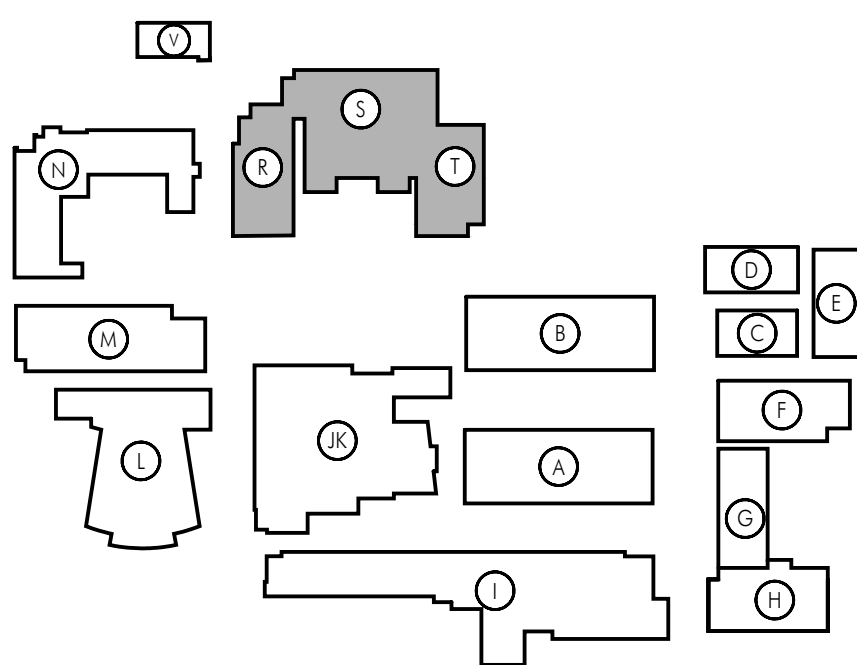
DEMOLITION KEYNOTES:

- 102 EXISTING UNDERGROUND ELECTRICAL LINE TO REMAIN INTACT, CONTRACTOR TO VERIFY LOCATION BEFORE DIGGING.
- 103 EXISTING UNDERGROUND GAS LINE TO REMAIN INTACT, CONTRACTOR TO VERIFY LOCATION BEFORE DIGGING.
- 104 EXISTING UNDERGROUND SEWER LINE TO REMAIN INTACT, CONTRACTOR TO VERIFY LOCATION BEFORE DIGGING.
- 105 EXISTING UNDERGROUND WATER LINE TO REMAIN INTACT, CONTRACTOR TO VERIFY LOCATION BEFORE DIGGING.
- 107 HATCH AREA INDICATES AREA OF ELECTRICAL TRENCH. REMOVE ASPHALT PAVING AND SOIL AS NEEDED. TRENCH DIMENSIONS AS REQUIRED SEE ELECTRICAL FOR MORE INFORMATION. VERIFY WITH ARCHITECT AND ELECTRICAL ENGINEER IN THE FIELD FOR FINAL ROUTING.
- 108 HATCH AREA INDICATES AREA ASPHALT PAVING PREPARATION FOR ASPHALT SEAL COAT.
- 109 CUT CURB AS NEEDED FOR NEW ELECTRICAL TRENCH.
- 110 REMOVE LANDSCAPING AND IRRIGATION AS NEEDED FOR NEW ELECTRICAL TRENCH. RE-ESTABLISH AFTER TRENCH IS COMPLETE. PROVIDE FULL COVERAGE IRRIGATION DURING CONSTRUCTION.
- 111 SOLAR ARRAY PERIMETER LOCATION CONTRACTOR TO VERIFY IN FIELD.
- 112 CONTRACTOR TO UTILIZE DIRECTIONAL BORING OR HAND DIG UNDER EXISTING CONCRETE SVALES FOR TRENCH WORK.
- 113 CONTRACTOR TO ADJUST PATH OF TRENCH TO AVOID FOOTING SEE 19/AB21 FOR CLEARANCE REQUIREMENTS.
- 114 LOCATION OF EXISTING SOLAR PANEL CONCRETE PIER FOOTING 30" DIA 14'-0" DEEP TO REMAIN. ALL TRENCH WORK TO MAINTAIN A DISTANCE OF 16'-0" FROM CENTER LINE OF FOOTING. CONTRACTOR TO VERIFY IN FIELD.
- 115 HATCH AREA INDICATES AREA OF REMOVAL ASPHALT PAVING AND SOIL AS NEEDED TO ACCOMMODATE NEW HVAC ENCLOSURE. VERIFY WITH NEW WORK. SEE 4/AB21

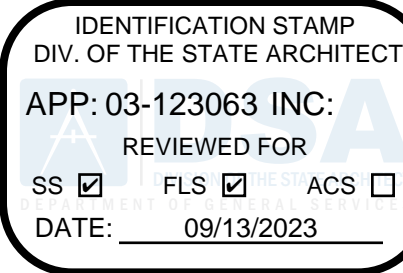
GENERAL NOTES:

1. REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.

KEYPLAN



DSA A# 03-123063



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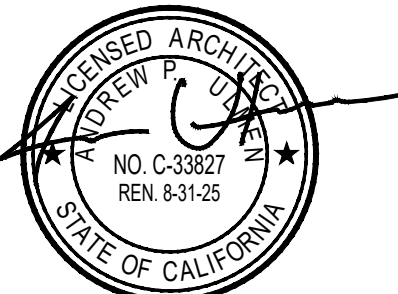
Gymnasium HVAC Replacement

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Date: 08.18.2023  
Scale: As Shown  
Drawn By: AF  
Checked By: AC, AF

Architect / Engineer Stamp



Consultants

Sheet Title

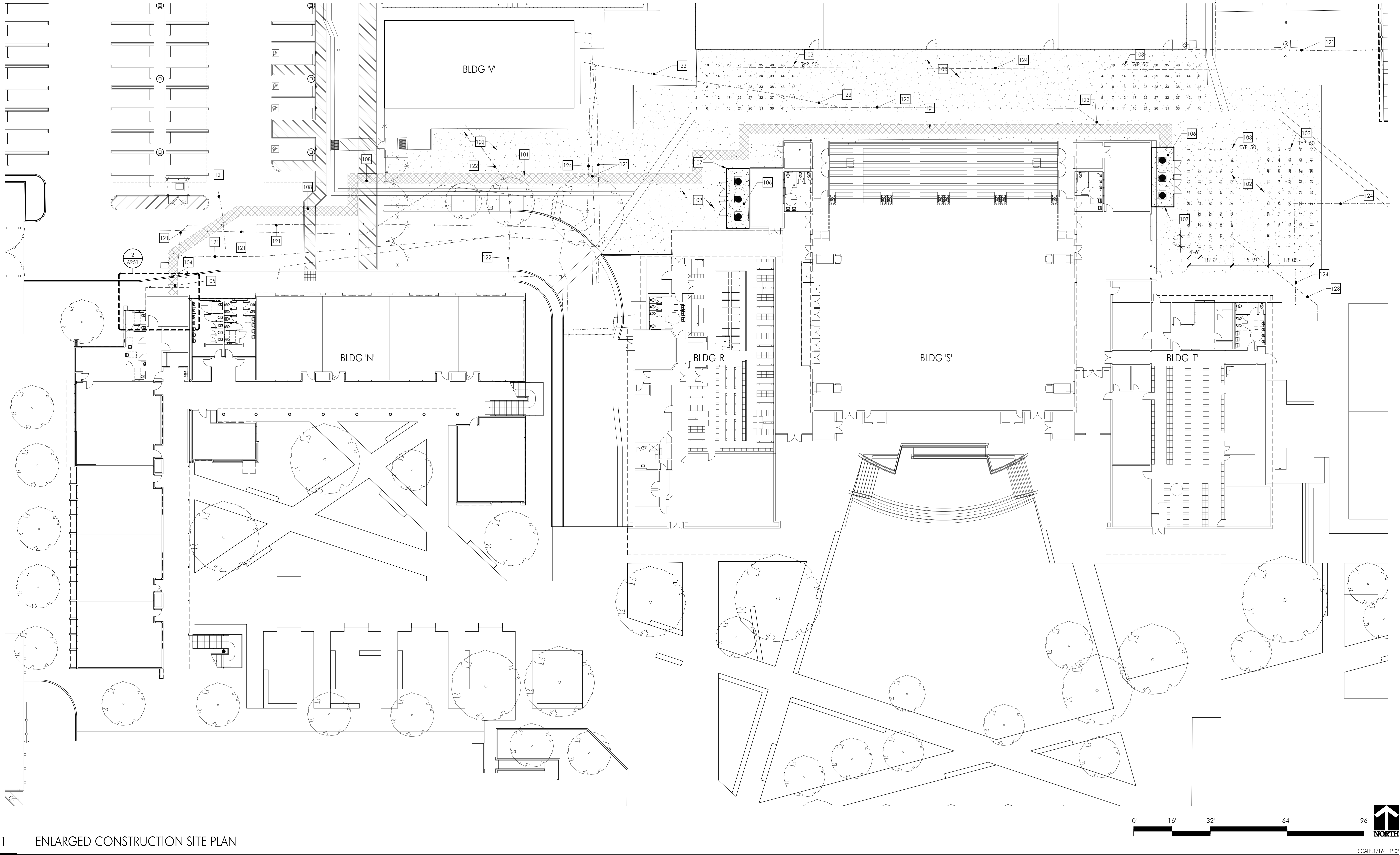
Enlarged Demolition  
Site Plan

Sheet Number

A121



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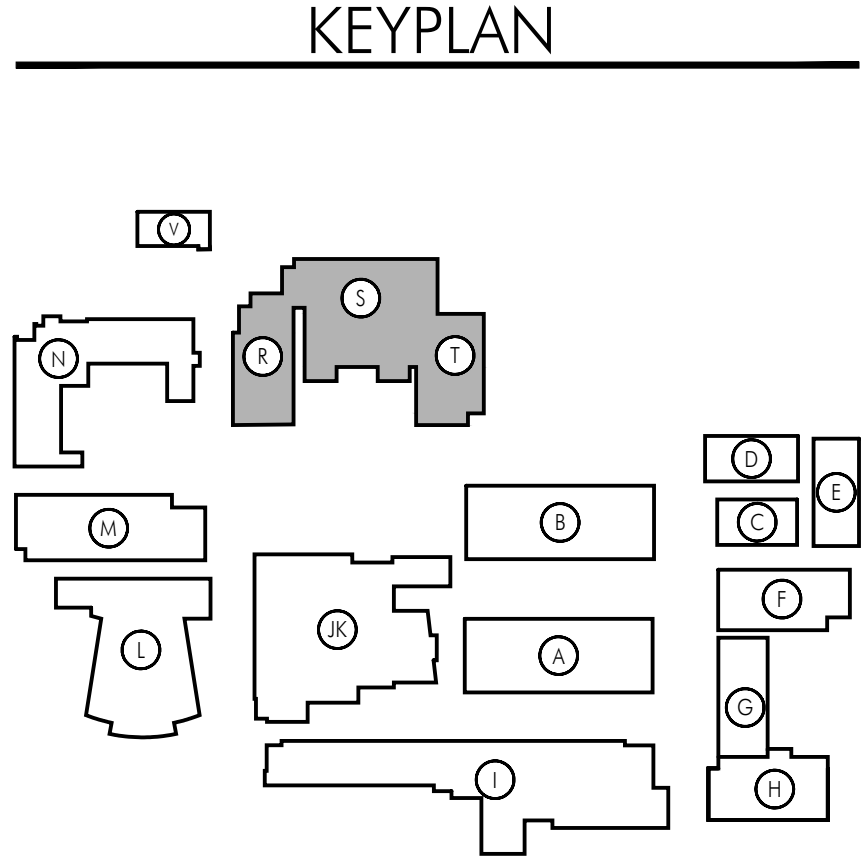


1 ENLARGED CONSTRUCTION SITE PLAN

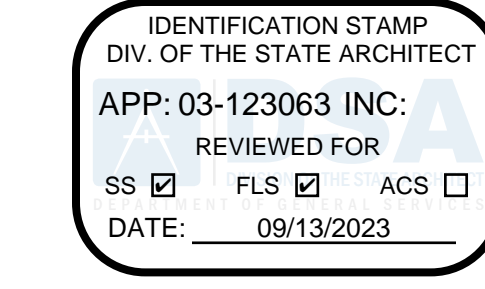
- KEYNOTES:**
- 121 EXISTING UNDERGROUND ELECTRICAL LINE TO REMAIN INTACT, CONTRACTOR TO VERIFY LOCATION BEFORE DIGGING.
  - 122 EXISTING UNDERGROUND GAS LINE TO REMAIN INTACT, CONTRACTOR TO VERIFY LOCATION BEFORE DIGGING.
  - 123 EXISTING UNDERGROUND SEWER LINE TO REMAIN INTACT, CONTRACTOR TO VERIFY LOCATION BEFORE DIGGING.
  - 124 EXISTING UNDERGROUND WATER LINE TO REMAIN INTACT, CONTRACTOR TO VERIFY LOCATION BEFORE DIGGING.
  - 101 HATCH AREA INDICATES AREA OF ELECTRICAL TRENCH, INSTALL PATHWAY AND CIRCUITS PER ELECTRICAL, INFILL TRENCH AND PATCH ASPHALT PAVING. SEE 2, 6/AB21.
  - 102 HATCH AREA INDICATES AREA FOR ASPHALT SEAL COAT.
  - 103 NEW STUDENT LINE UP PAVEMENT NUMBER PAINT. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR LAYOUT FOR APPROVAL.
  - 104 PATCH CURB AS NEEDED MATCH ADJACENT CURB, SEE DETAIL 14/AB21.
  - 105 RE-ESTABLISH LANDSCAPING AND IRRIGATION. PROVIDE ELECTRICAL TRENCH 10/AB21, ROUTE AT FOOTING PER 18/AB21.
  - 106 HVAC ENCLOSURE SEE #211 FOR MORE INFORMATION.
  - 107 PATCH AC PAVEMENT AT EDGE OF NEW HVAC ENCLOSURE.
  - 108 RE-ESTABLISH RE-STRIPE POT OF TRAVEL STRIPE PATTERN MATCH EXISTING.

**GENERAL NOTES:**

1. REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.



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## Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev	Date	Issue
03.06.23	03.06.23	DSA SUBMITTAL
09.08.23	09.08.23	DSA BACKCHECK

Date: 08.18.2023  
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Drawn By: AF  
Checked By: AC, AF

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Sheet Title

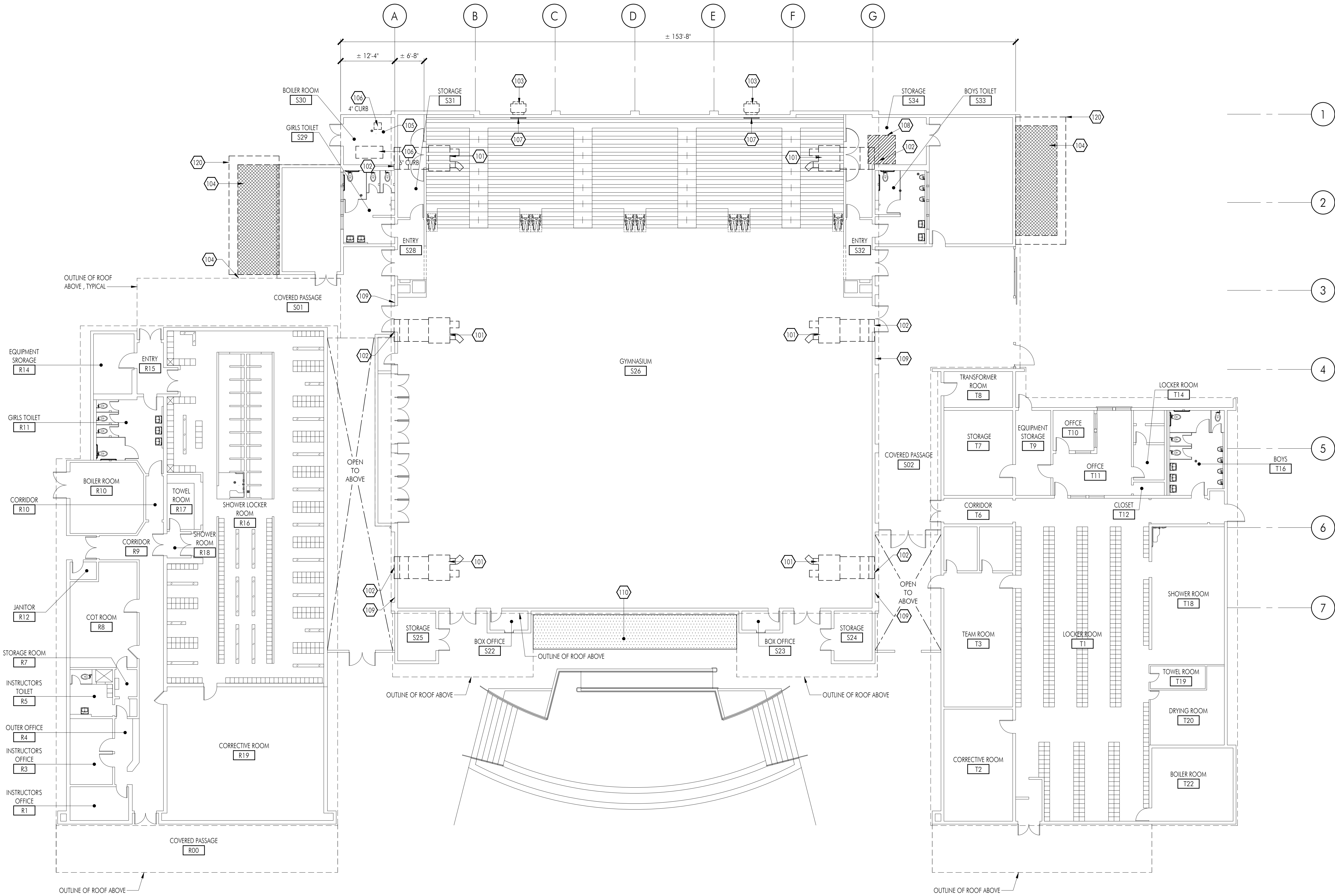
Enlarged  
Construction Site  
Plan

Sheet Number

A122



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#### DEMOLITION KEYNOTES:

- 101 REMOVE CEILING-SUSPENDED HEATER VENTILATOR AND ASSOCIATED STRUCTURAL SUPPORT, AND ELECTRICAL BACK TO TRANSFORMER ROOM T8, AND PLUMBING BACK TO BOILER ROOM.
- 102 PROTECT IN PLACE EXTERIOR LOUVER, CLEAN AND PREPARE FOR PAINT.
- 103 REMOVE EXHAUST FAN, PREPARE OPENING FOR INFILL.
- 104 HATCHED AREA INDICATES AREA OF REMOVAL OF EXTERIOR AC PAVING TO ACCOMMODATE NEW HVAC EQUIPMENT, CONCRETE PAD AND ENCLOSURE SEE 4/A821.
- 105 REMOVE ALL ABANDONED EQUIPMENT, PIPING AND SUPPORTS WITHIN ROOM SEE MECHANICAL FOR MORE INFORMATION. PREPARE ROOM FOR PATCHING AND PAINT. SEE 5/A411 FOR COORDINATION.
- 106 SAW-CUT REMOVE CONCRETE HOUSE KEEPING PAD 1' BELOW FINISH FLOOR.
- 107 REMOVE INTERIOR LOUVER.
- 108 DEMOLISH PORTION OF CONCRETE SLAB, REMOVE AS NEEDED FOR ACCESS TO EXISTING PLUMBING LINE. PREPARE AREA FOR INSTALLATION OF NEW FLOOR DRAIN. SEE PLUMBING AND MECHANICAL FOR MORE INFORMATION.
- 109 CORE THROUGH EXISTING CONCRETE WALL FOR INSTALLATION OF SECONDARY DRAIN LINE TO EXTERIOR WALL. SEE 1/A801 FOR TYPICAL ELEVATION. SEE STRUCTURAL 12/54 FOR MORE INFORMATION. SEE PLUMBING AND MECHANICAL FOR MORE INFORMATION.
- 110 EXISTING LANDSCAPE. PROTECT DURING WORK.
- 120 LINE OF OVER EXCAVATION AND RE-COMPACTION AS NEEDED FOR NEW HVAC EQUIPMENT PAD.

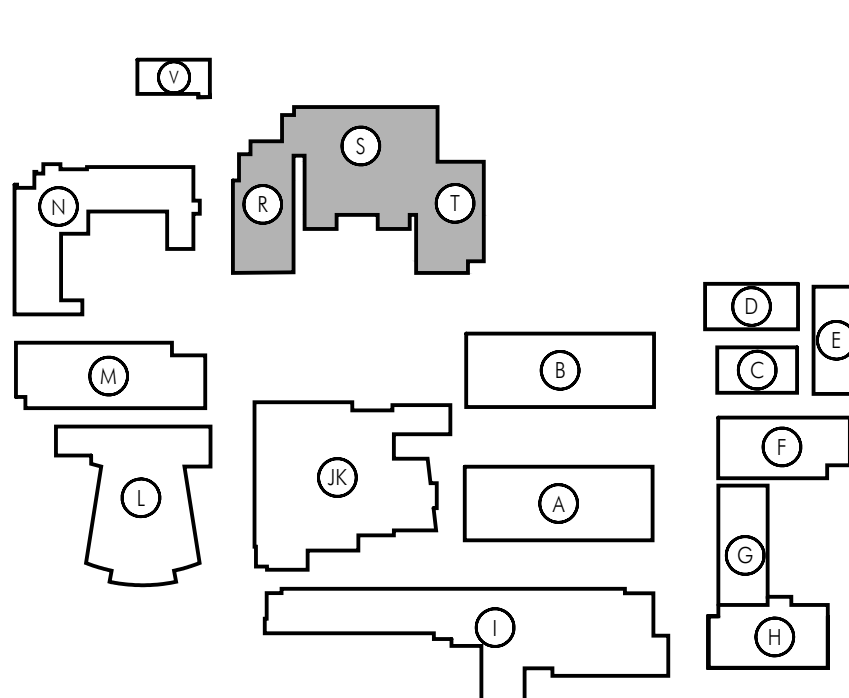
#### DEMOLITION NOTES:

- REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PLANS FOR ADDITIONAL SCOPE OF WORK.
- REMOVE EXISTING LIGHT FIXTURES AND RELATED APPURTENANCES PER ELECTRICAL DRAWINGS. TURN OVER TO DISTRICT.
- MECHANICAL UNIT DEMOLITION ITEMS
  - CONTRACTOR SHALL COMPLETELY DEMOLISH AND DISPOSE OF ALL EXISTING HVAC EQUIPMENT AND RELATED APPURTENANCES SUCH AS SUPPORT, PIPING, CONTROLS, AND ELECTRICAL DEVICES, ETC.
  - CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE DEMOLITION SCOPE OF WORK. HE SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, AND FACILITIES NECESSARY TO CARRY OUT THIS DEMOLITION WORK.
- REMOVE EXISTING SURFACE MOUNTED ELECTRICAL AND TELECOM RACEWAYS, OUTLETS, WIRING, AND RELATED APPURTENANCES PER ELECTRICAL DRAWINGS. PATCH AND PAINT SURFACES.
- PROTECT IN-PLACE ALL EXISTING SURFACES TO REMAIN INCLUDING BUT NOT LIMITED TO FLOORING AND CEILING FINISHES.
- REFER TO HAZARDOUS MATERIALS REPORT PER SPECIFICATIONS.

#### SYMBOL LEGEND:

- ROOM DESIGNATION
- Room or Area title Room
  - Room number / Space number
  - Room number / Space number

#### KEYPLAN

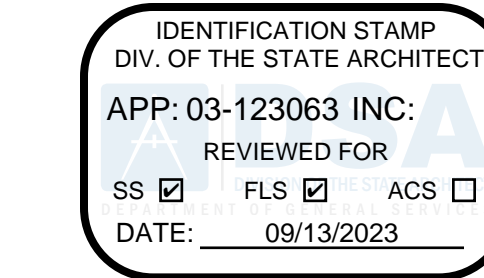


Sheet Title  
Building 'R' 'S' 'T'  
Demolition Floor  
Plan

Sheet Number

A201

DSA A# 03-123063



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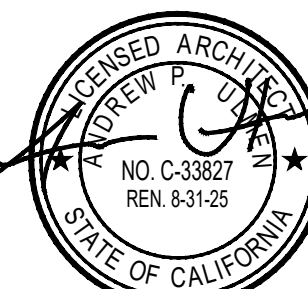
Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev	Date	Issue
03.06.23	03.06.23	DSA SUBMITTAL
09.08.23	09.08.23	DSA BACKCHECK

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Checked By: AC, AF

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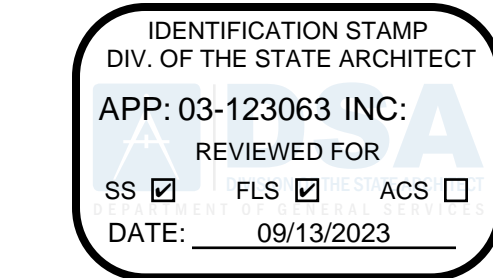


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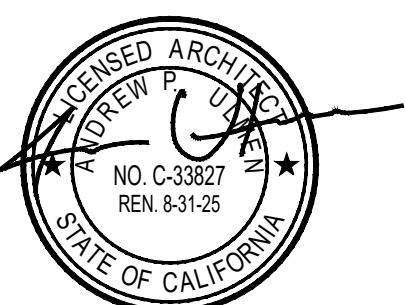
## Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev	Date	Issue
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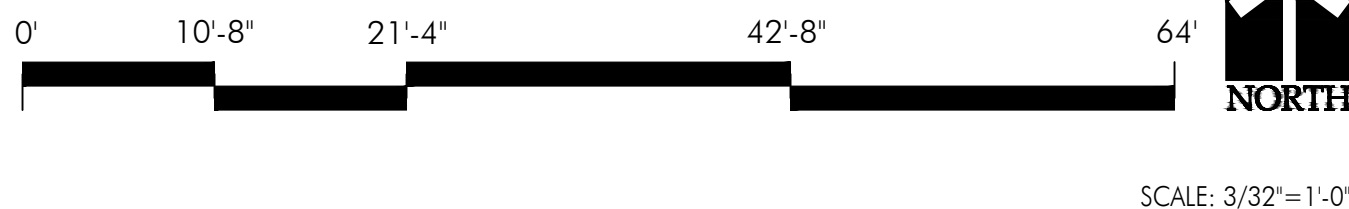
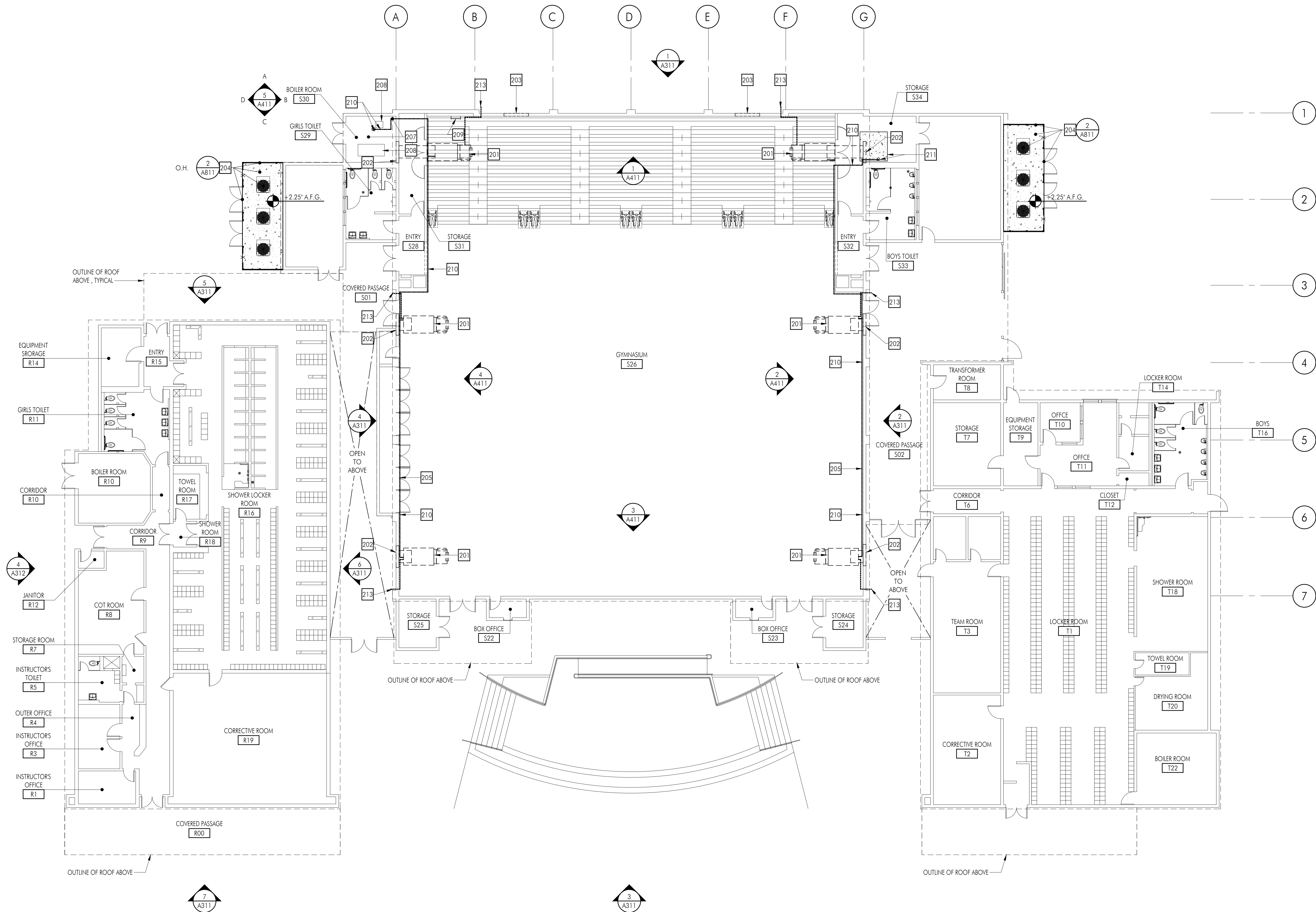
Consultants

Sheet Title  
Building 'R' 'S' 'T'  
Floor Plan

Sheet Number

A211

## 1 BUILDING 'R'S'T' FLOOR PLAN



SCALE: 3/32"=1'-0"

### CONSTRUCTION KEYNOTES:

- 201 INSTALL CEILING SUSPENDED FAN COIL AND ASSOCIATED STRUCTURAL SUPPORT, ELECTRICAL, REFRIGERANT LINES, AND CONDENSATE LINES. SHOP PAINT HVAC UNIT P-2 AND PAINT HVAC UNIT IDENTIFICATION NUMBER P-1.
- 202 PREPARE, PRIME AND PAINT EXISTING LOUVER. SEE EXTERIOR ELEVATION AND MATERIAL LEGEND FOR MORE INFORMATION.
- 203 INFILL EXISTING EXHAUST FAN OPENING SEE 23/55. PAINT AND PATCH TO MATCH ADJACENT WALL FINISH AND COLOR.
- 204 INSTALL NEW HVAC EQUIPMENT, CONCRETE PAD AND ENCLOSURE. SEE STRUCTURAL 1/54 AND MECHANICAL 3/M300 FOR MORE INFORMATION. PAINT HVAC UNIT IDENTIFICATION NUMBER P-1.
- 205 INSTALL HVAC REFRIGERANT LINES FROM FAN COIL TO EXTERIOR CONDENSER.
- 207 PATCH ALL WALL AND CEILING SURFACE, PRIME AND PAINT.
- 208 PROVIDE CONCRETE SLAB REPAIR FILLER, SEE 9/A4801.
- 209 PROVIDE NEW ROOF ACCESS LADDER AND ACCESS TO AHU SEE 20/A801.
- 210 PRIMARY CONDENSATE LINE TO FLOOR DRAIN. RUN ALONG UNISTRUT SUPPORT FOR REFRIGERANT. SEE 7/M300. SEE MECHANICAL AND PLUMBING FOR MORE INFORMATION.
- 211 INSTALL NEW FLOOR DRAIN SEE PLUMBING FOR MORE INFORMATION. PROVIDE CONCRETE PATCH PER 24/A821.

- 213 SECONDARY CONDENSATE LINE TO EXTERIOR WALL. LOCATION TO BE COORDINATED IN FIELD WITH ARCHITECT BEFORE WORK COMMENCES. SEE 13/A821, MECHANICAL AND PLUMBING FOR MORE INFORMATION.

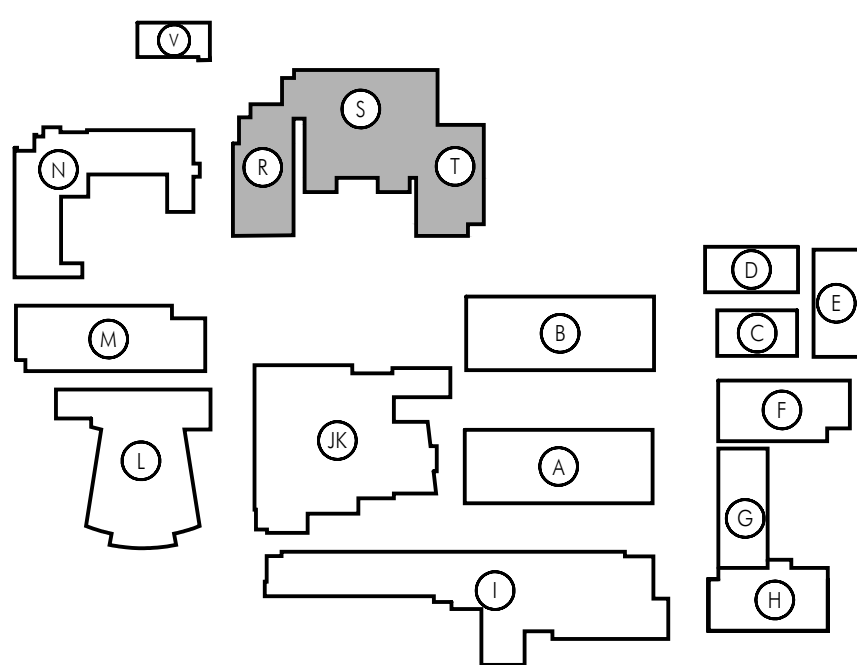
### GENERAL NOTES:

- 1. STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL.
- 2. ALL STUDS SHALL BE 20 GAUGE AT 16" O.C. UNLESS NOTED OTHERWISE. ALL GYPSUM BOARD SHALL BE 5/8" TYPE X UNLESS NOTED OTHERWISE. ALL INTERIOR WALLS SHALL HAVE CAVITIES FILLED WITH SOUND-ATTENUATION BATT. ALL EXTERIOR WALLS SHALL HAVE CAVITIES FILLED WITH THERMAL BATT.
- 3. ALL BOTTOM TRACKS (METAL STUD FRAMING) SHALL RECEIVE A CONTINUOUS MINIMUM 1/2" BEAD OF ACOUSTICAL SEALANT.
- 4. CONTINUOUS ACOUSTICAL SOUND TAPE SHALL BE USED WHEREVER A WALL MEETS DISSIMILAR MATERIALS.
- 5. ALL GYPSUM BOARD SHALL BE TAPED TO RECEIVE SEMI-GLOSS OR EGGSHELL PAINT FINISH, UNLESS NOTED OTHERWISE. SEE MATERIAL LEGEND ON A612 FOR MORE INFORMATION.
- 6. COORDINATE ALL ELECTRICAL, PLUMBING, AND MECHANICAL LINES AND PIPES WITH ASSOCIATED DISCIPLINES. VERIFY IN FIELD WITH ARCHITECT OF LAYOUT BEFORE INSTALLATION.
- 7. PROTECT IN-PLACE ALL EXISTING SURFACES TO REMAIN INCLUDING BUT NOT LIMITED TO FLOORING AND CEILING FINISHES.
- 8. REFER TO HAZARDOUS MATERIALS REPORT PER SPECIFICATIONS.
- 9. PREPARE, PAINT AND PATCH ALL SURFACES DUE TO FIRE ALARM WORK SEE E301 - E331.

### SYMBOL LEGEND:

ROOM DESIGNATION	Room or Area title Room
OFFICE	Room number / Space number
B110	Room number / Space number

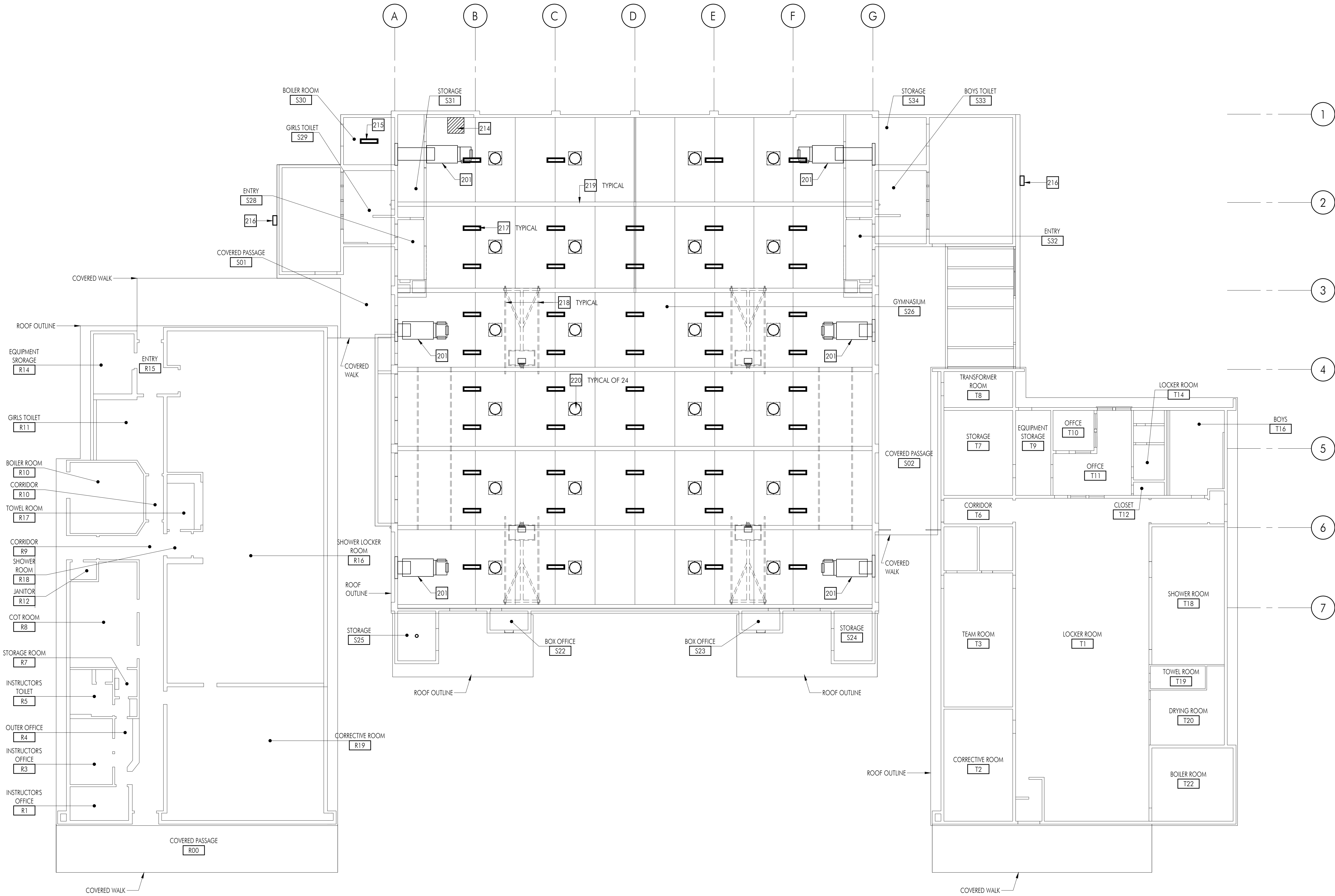
### KEYPLAN





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1 BUILDING 'R'S'T' REFLECTED CEILING PLAN



KEYNOTES:

- 201 INSTALL CEILING SUSPENDED FAN COIL AND ASSOCIATED STRUCTURAL SUPPORT, ELECTRICAL, REFRIGERANT LINES, AND CONDENSATE LINES.
- 214 REMOVE PORTION OF EXISTING CEILING FOR NEW WORK. INSTALL NEW ROOF ACCESS HATCH PER 20/AB01. SEE STRUCTURAL 25/54 FOR ROOF FRAMING.
- 215 REPLACE EXISTING SURFACE-MOUNTED LIGHT FIXTURE WITH NEW FIXTURE. SEE ELECTRICAL FOR MORE INFORMATION.
- 216 NEW WALL MOUNTED LIGHT FIXTURE SEE ELECTRICAL FOR MORE INFORMATION.
- 217 EXISTING SUSPENDED LIGHT FIXTURES TO REMAIN. PROTECT IN PLACE.
- 218 EXISTING FOLDING BASKETBALL EQUIPMENT FRAMES/SUPPORTS MOUNTED ON EXISTING GIRDERS TO REMAIN. PROTECT IN PLACE.
- 219 EXISTING STEEL GIRDER. SEE STRUCTURAL FOR MORE INFORMATION.
- 220 REMOVE EXISTING PORTION OF CEILING AS NEEDED FOR INSTALLATION OF NEW TUBULAR SKYLIGHTS SEE 6/AB01. SEE ROOF PLAN FOR MORE INFORMATION.

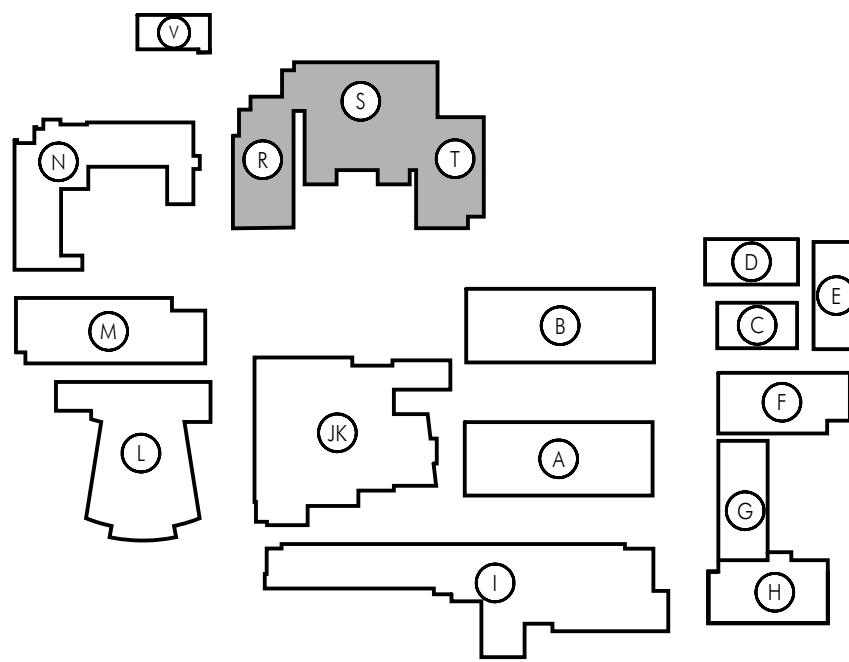
REFLECTED CEILING NOTES:

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
2. NOT ALL EXISTING CEILING-MOUNTED FIXTURES OR EQUIPMENT ARE SHOWN IN THIS PLAN. CONTRACTOR TO PROTECT ALL EXISTING FIXTURES, CONDUITS, WIRING, SPEAKERS, FRAMES AND SUPPORTS DURING WORK.

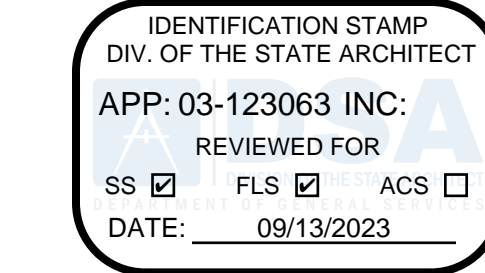
SYMBOL LEGEND:

- ROOM DESIGNATION
- Office
  - Room or Area Title Room
  - Room number / Space number
  - Room number / Space number

KEYPLAN



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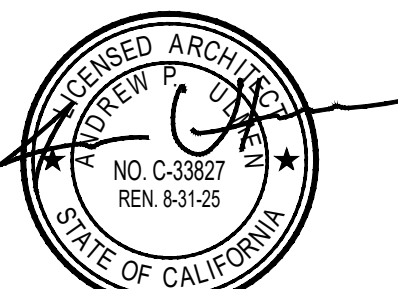
Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev	Date	Issue
03.06.23	03.06.23	DSA SUBMITTAL
09.08.23	09.08.23	DSA BACKCHECK

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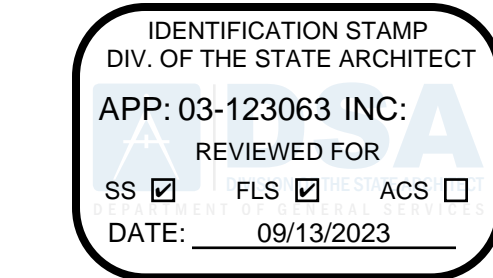
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Sheet Title  
Building 'R' 'S' 'T'  
Reflected Ceiling  
Plan

Sheet Number

A231





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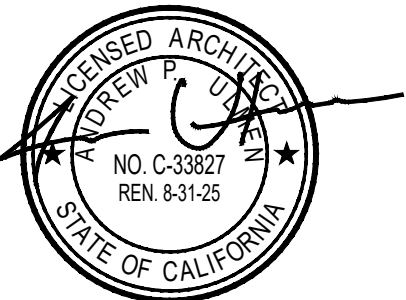
# Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

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Date: 08.18.2023  
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Sheet Title

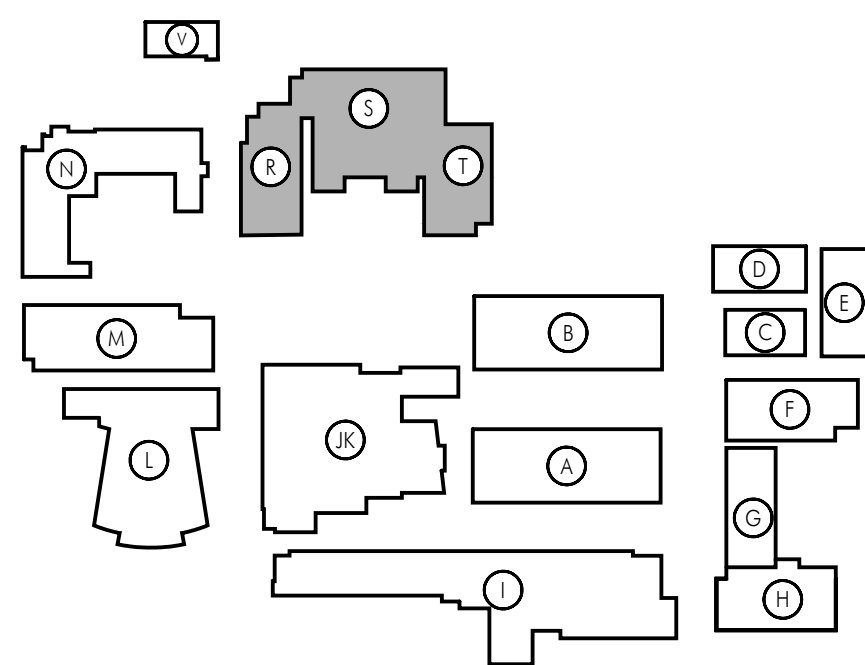
Building 'R' 'S' 'T'  
Demolition Roof  
Plan

Sheet Number

A241

SCALE: 3/32"=1'-0"

## KEYPLAN



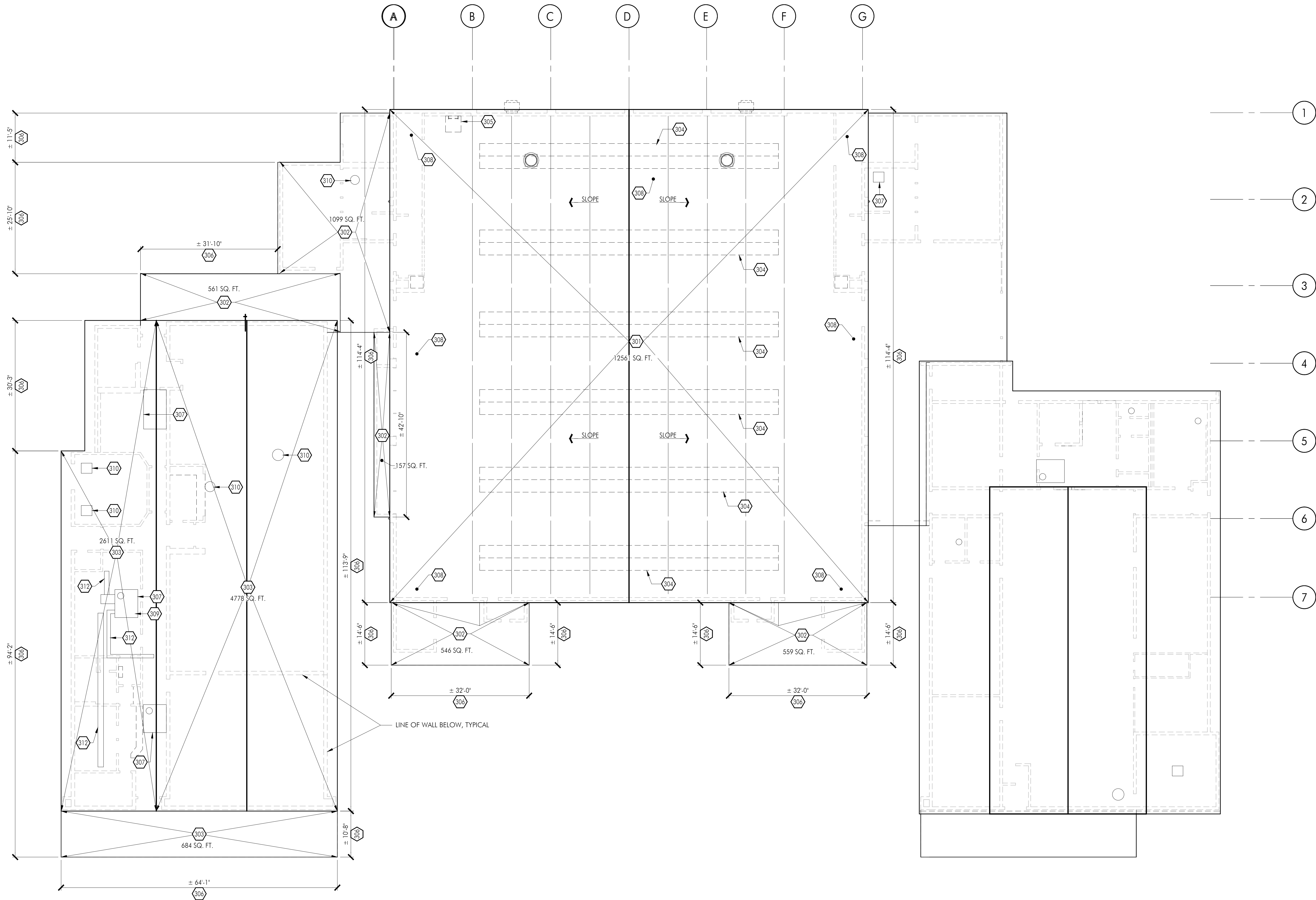
## DEMOLITION KEYNOTES:

- 301 REMOVE GYMNASIUM HIGH ROOFING DOWN TO DECK.
- 302 REMOVE LOW ROOFING DOWN TO DECK.
- 303 REMOVE GIRLS LOCKER ROOFING DOWN TO DECK.
- 304 REMOVE ABANDONED SKYLIGHT AND CURB SEE 18/A834.
- 305 REMOVE PORTION OF ROOF SHEATHING TO ACCOMMODATE NEW ROOF ACCESS HATCH. SEE 8/A801 FOR COORDINATION.
- 306 REMOVE ALL ROOF GLUTTERS, DOWNSPOUTS, SPLASH BLOCKS, AND ASSOCIATED HARDWARE.
- 307 EXISTING HVAC EQUIPMENT TO REMAIN. PROTECT IN PLACE DURING DEMOLITION WORK.
- 308 REMOVE AIR VENT VALVE. PATCH AND REPAIR ROOF SHEATHING.
- 309 EXISTING CONDUIT, GAS PIPE OR SIMILAR WITH ASSOCIATED HVAC UNITS. PROTECT IN PLACE DURING DEMOLITION WORK.
- 310 EXISTING HEAT VENT/FLUE. PROTECT IN PLACE DURING DEMOLITION WORK.
- 311 EXISTING VENT. PROTECT IN PLACE DURING DEMOLITION WORK.
- 312 EXISTING HVAC DUCT. PROTECT IN PLACE DURING DEMOLITION WORK.

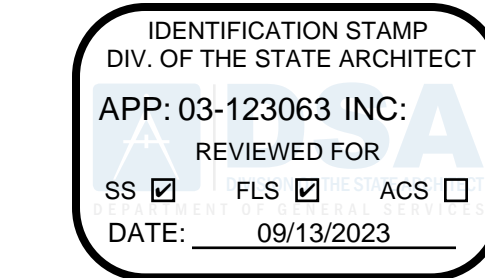
## GENERAL NOTES:

- COORDINATE ALL ELECTRICAL, PLUMBING, AND MECHANICAL LINES AND PIPES WITH ASSOCIATED DISCIPLINES. VERIFY IN FIELD WITH ARCHITECT OF LAYOUT BEFORE INSTALLATION.
- PROTECT IN PLACE ALL EXISTING SURFACES TO REMAIN INCLUDING BUT NOT LIMITED TO FLOORING AND CEILING FINISHES.
- REFER TO HAZARDOUS MATERIALS REPORT PER SPECIFICATIONS

## 1 BUILDING 'R' 'S' 'T' DEMOLITION ROOF PLAN







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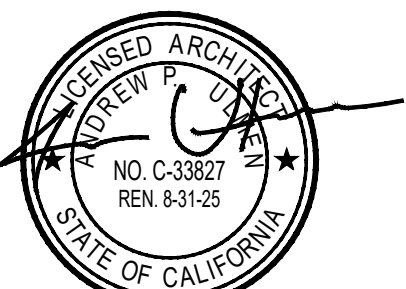
## Gymnasium HVAC Replacement

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9063 Mission Drive  
Rosemead, California 91770

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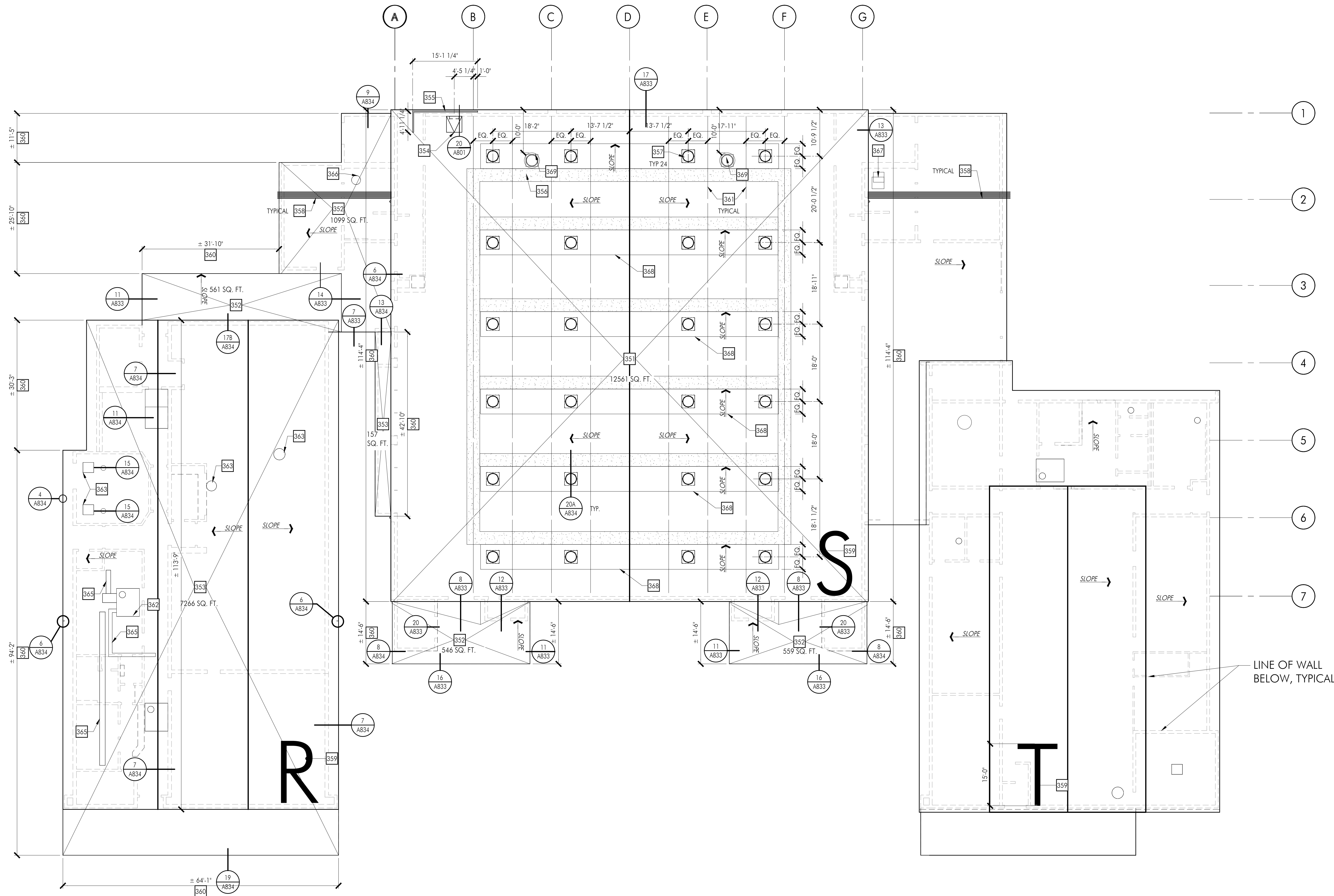
Consultants

Sheet Title

Building 'R' 'S' 'T'  
Roof Plan

Sheet Number

A242



## 1 BUILDING 'R' 'S' 'T' ROOF PLAN

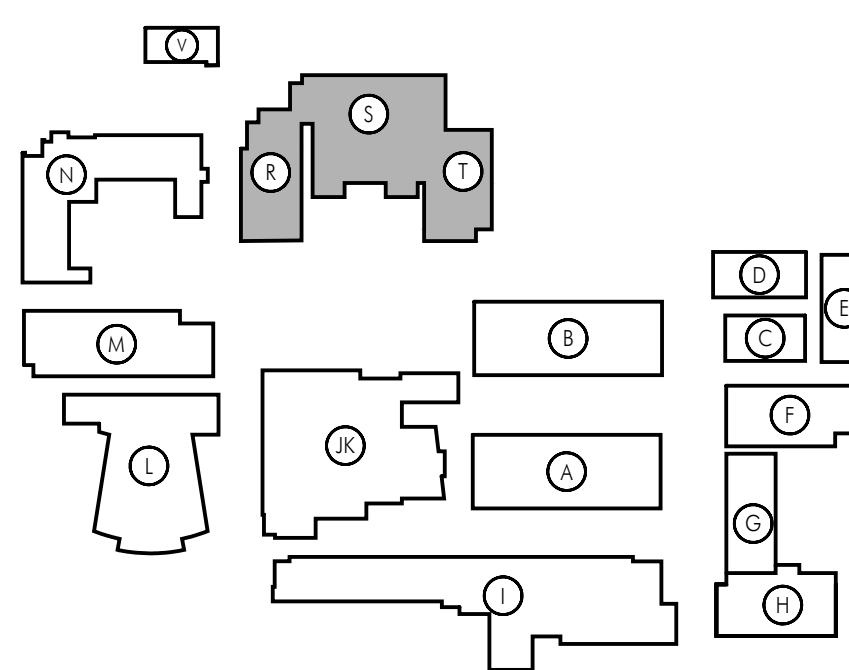
### CONSTRUCTION KEYNOTES:

- |     |  |     |  |
|-----|--|-----|--|
| 351 | INSTALL GYMNASIUM HIGH ROOF ROOFING SYSTEM. CLASS 'A' ROOFING SEE 1/AB31   | 362 | EXISTING CONDUIT PROTECT IN PLACE, GAS PIPE OR SIMILAR ASSOCIATED WITH HVAC UNITS. SEE 7/AB31 FOR FLASHING.    |
| 352 | INSTALL LOW ROOF ROOFING SYSTEM. CLASS 'A' ROOFING SEE 1/AB31  | 363 | EXISTING HEAT VENT/FLUE PROTECT IN PLACE. SEE 6/AB31 FOR FLASHING.   |
| 353 | INSTALL GIRLS LOCKER ROOF ROOFING SYSTEM. CLASS 'A' ROOFING SEE 1/AB31   | 365 | EXISTING HVAC DUCT. PROTECT IN PLACE DURING DEMOLITION WORK. SEE 5/AB31 SIMILAR FOR FLASHING.                  |
| 354 | INSTALL NEW ROOF ACCESS HATCH 20/AB01  | 366 | INFILL ABANDONED FLUE VENT PENETRATION SEE 2/AB01  |
| 355 | INSTALL ROOF MOUNTED GUARDRAIL 10/AB01   | 367 | EXISTING ROOF EQUIPMENT TO REMAIN PROTECT IN PLACE, ROUTE NEW HVAC LINE ASS NEEDED TO PROVIDE 1'-0" CLEARANCE. |
| 356 | HATCH AREA INDICATES AREA OF NEW WALKING PADS WITH CHEVRON TEXTURED SURFACE PATTERN.   | 368 | LINE OF EXISTING ROOF SKYLIGHT INFILL FOR REFERENCE.   |
| 357 | INSTALL TUBULAR SKYLIGHT SYSTEM PER 6/AB01. CENTER SKYLIGHTS BETWEEN EXISTING ROOF FRAMING BELOW.  | 369 | NEW ROOF EXHAUST FAN SEE 11/AB31, SEE MECHANICAL AND STRUCTURAL FOR MORE INFORMATION.                          |
| 358 | INSTALL NEW ROOF-MOUNTED REFRIGERANT LINES AND CONDUITS ON DURABLOCKS PER DETAIL 2/AB34. SEE MECHANICAL FOR MORE INFORMATION.  |     |  |
| 359 | PROVIDE BUILDING IDENTIFICATIONS ID, MATERIAL TO BE INTEGRAL WITH ROOFING MATERIAL TO BE CONTRASTING COLOR TO ROOF COLOR.  |     |  |
| 360 | INSTALL NEW ROOF GUTTERS PER 8/AB31, DOWNSPOUTS PER 2/AB33 AND SPLASH BLOCKS PER 14/AB31 WHERE GUTTERS, DOWNSPOUTS AND SPLASH BLOCKS WERE REMOVED. SEE ELEVATIONS FOR LOCATIONS. |     |  |
| 361 | ROOF FRAMING BELOW, SEE STRUCTURAL FOR MORE INFORMATION.   |     |  |

### GENERAL NOTES:

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### KEYPLAN





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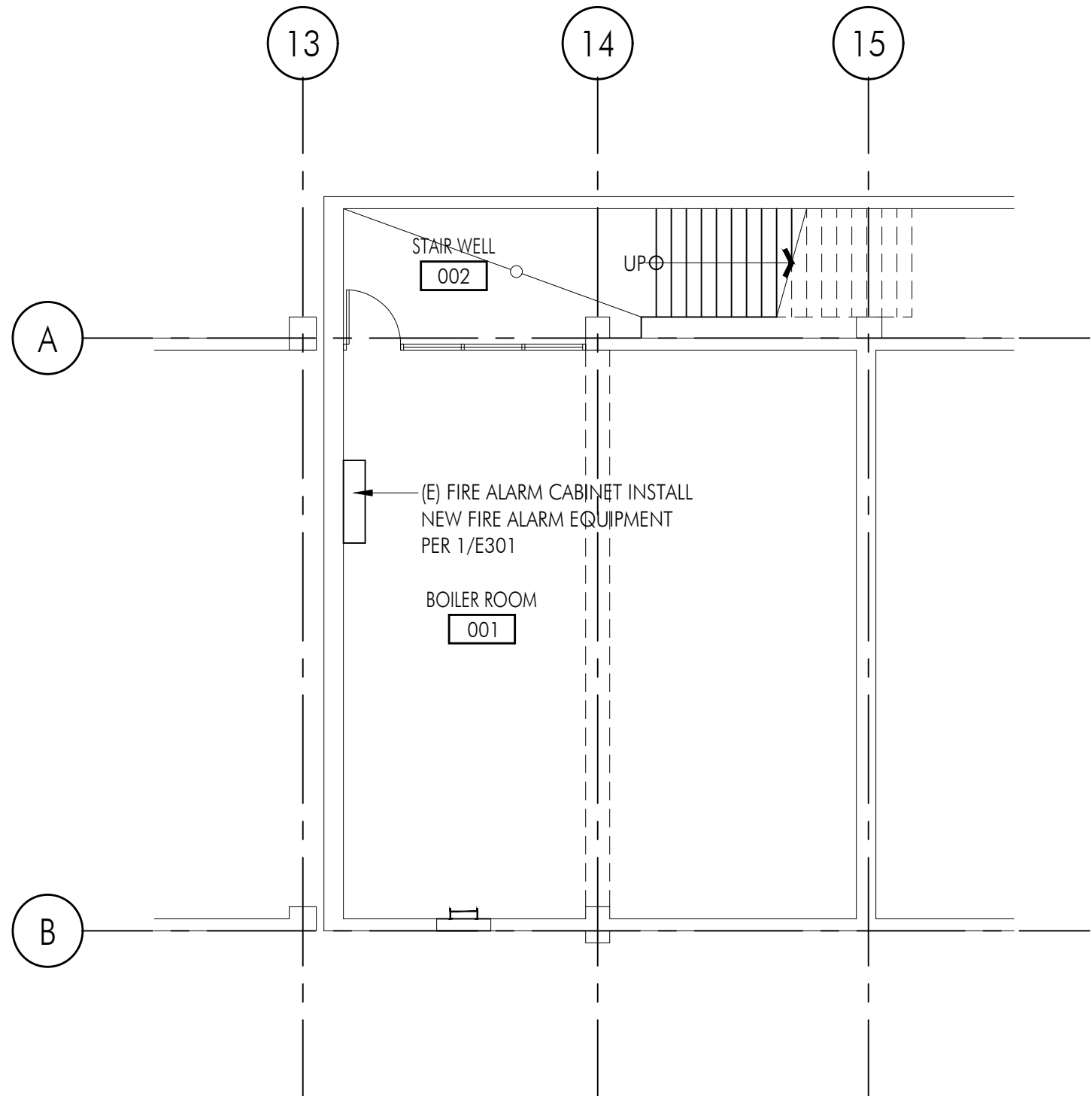
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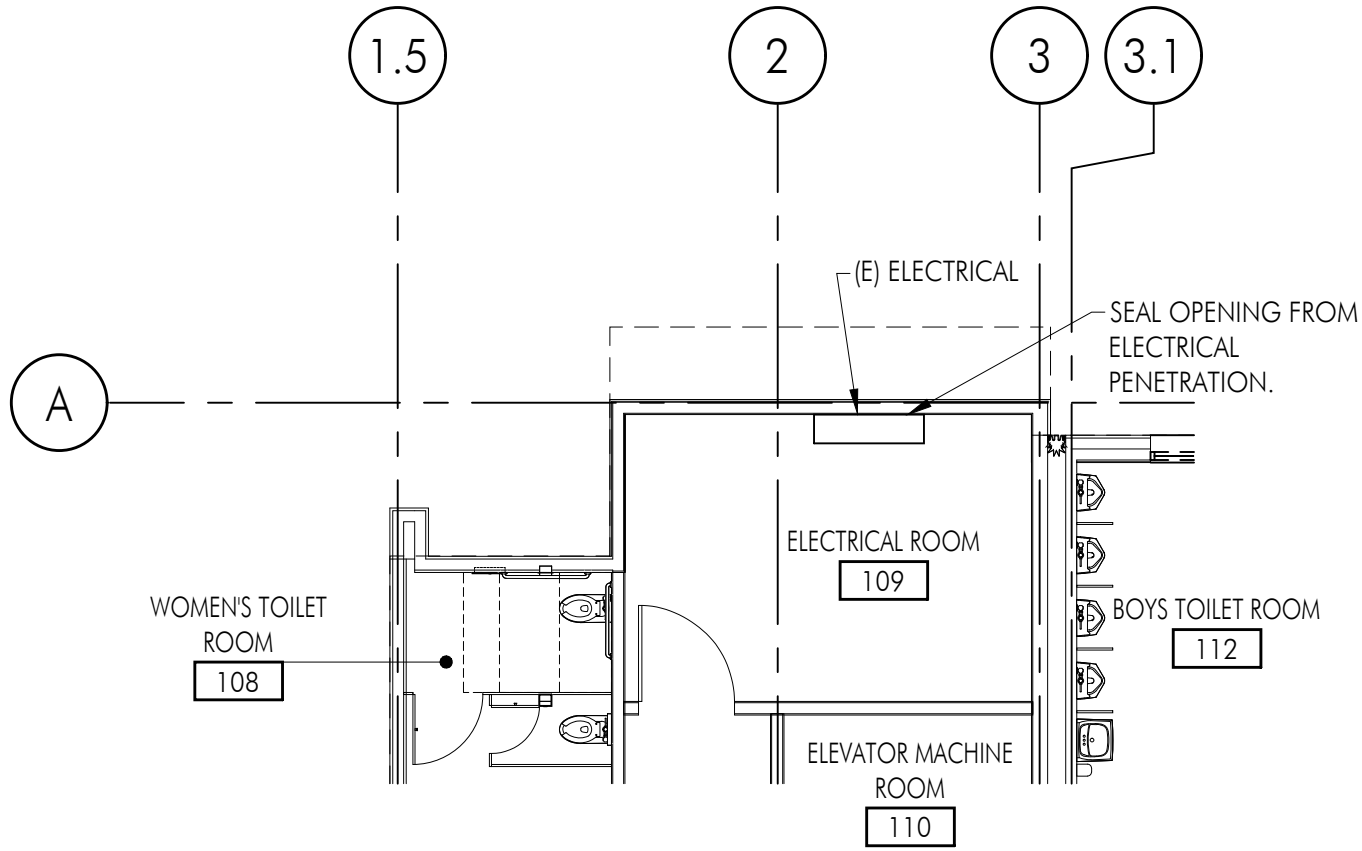
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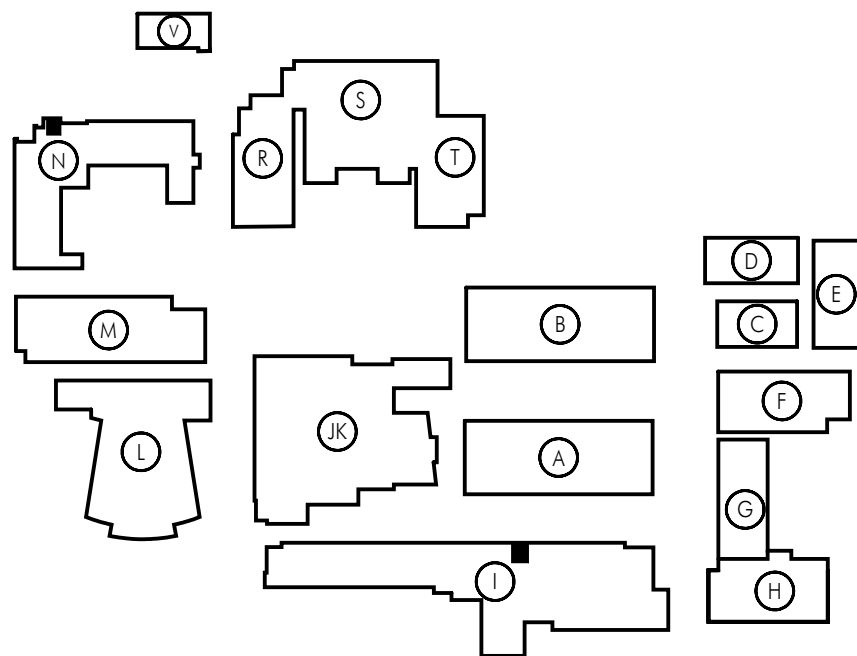


1 BUILDING 'I' - ENLARGED PARTIAL BASEMENT PLAN (REFERENCE LOCATION OF FIRE ALARM PANEL)  
SCALE: 1/8"=1'-0"



2 BUILDING 'N' - ENLARGED PARTIAL PLAN  
SCALE: 1/8"=1'-0"

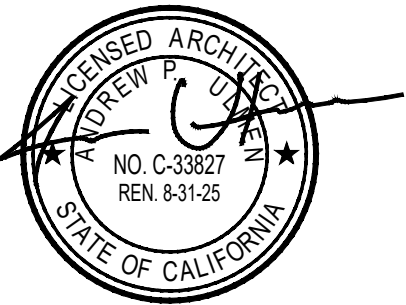
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Rev	Date	Issue
03.06.23	03.06.23	DSA SUBMITTAL
09.08.23	09.08.23	DSA BACKCHECK

Date: 08.18.2023  
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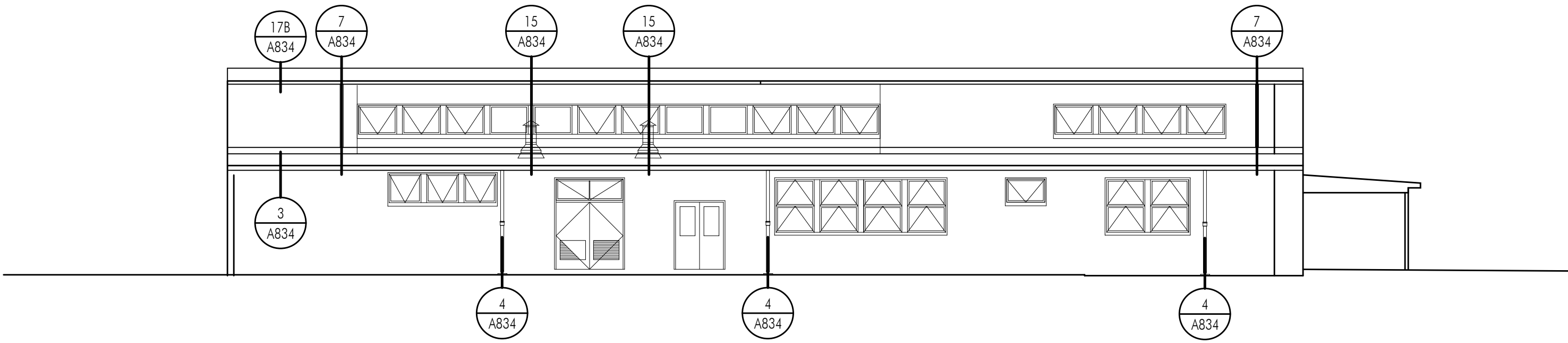
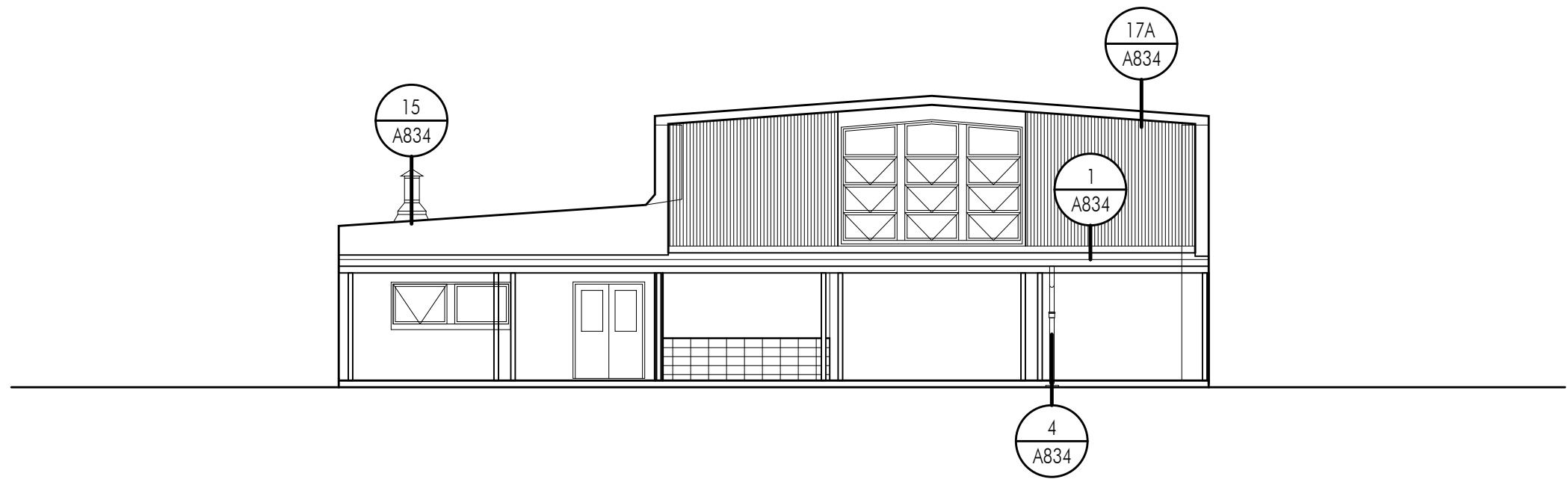
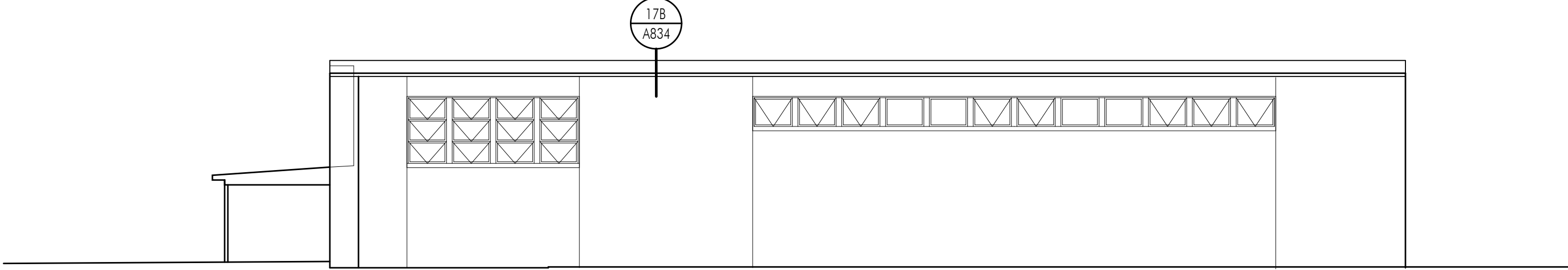
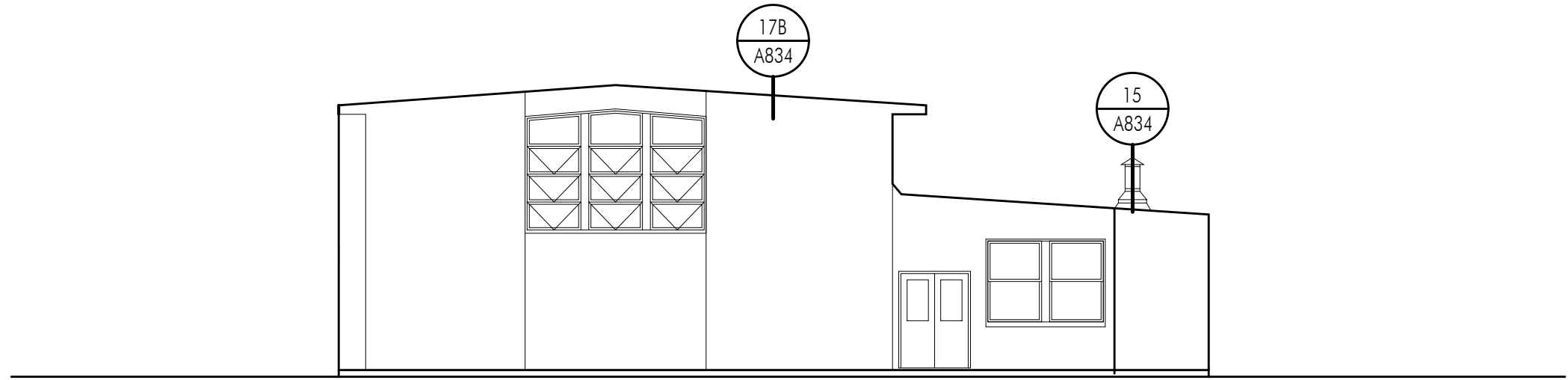
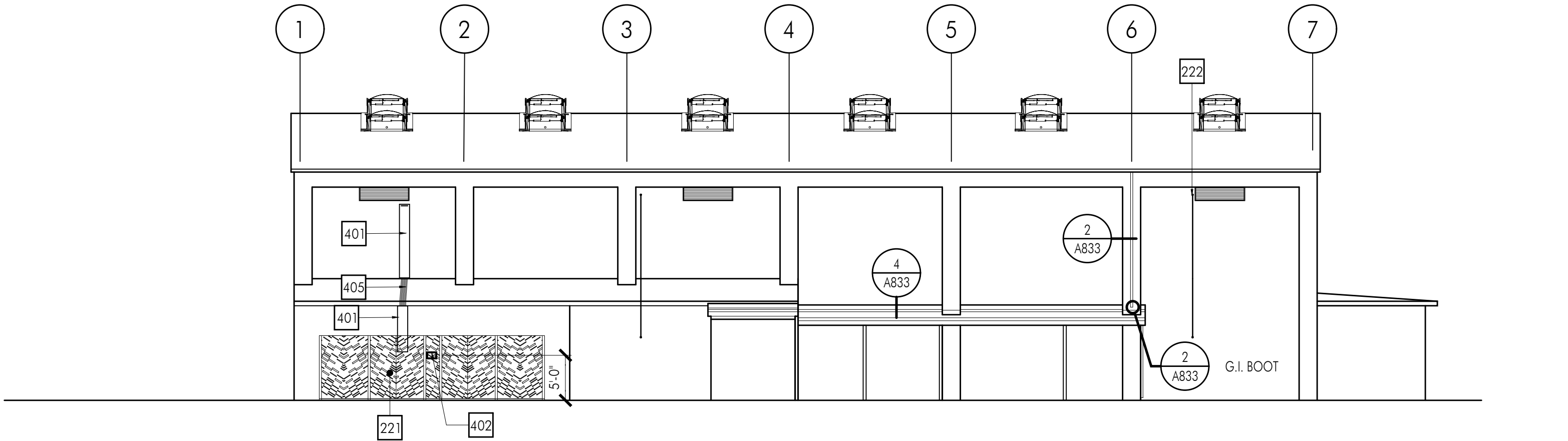
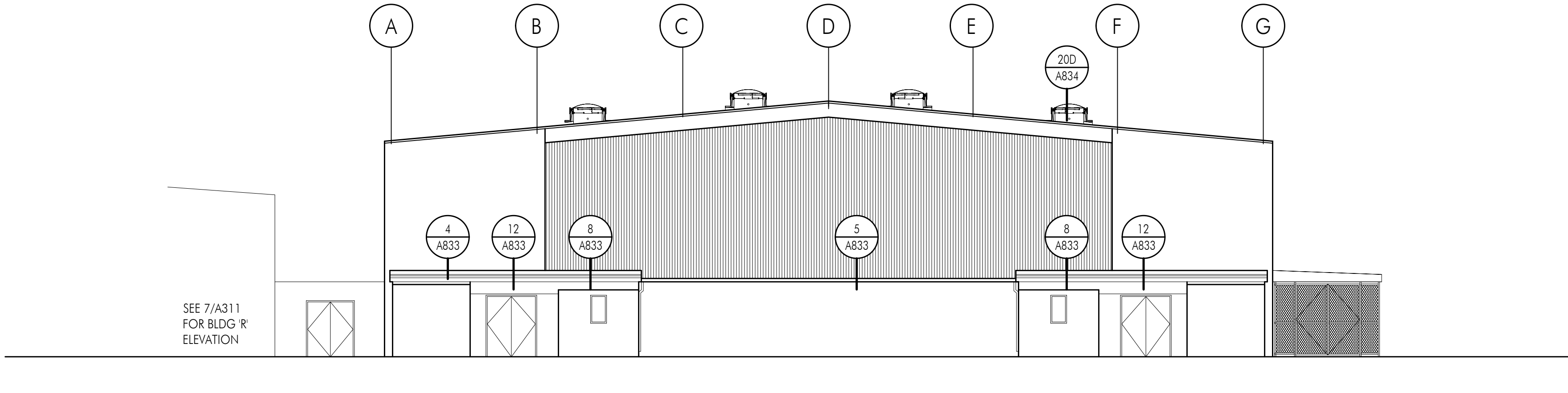
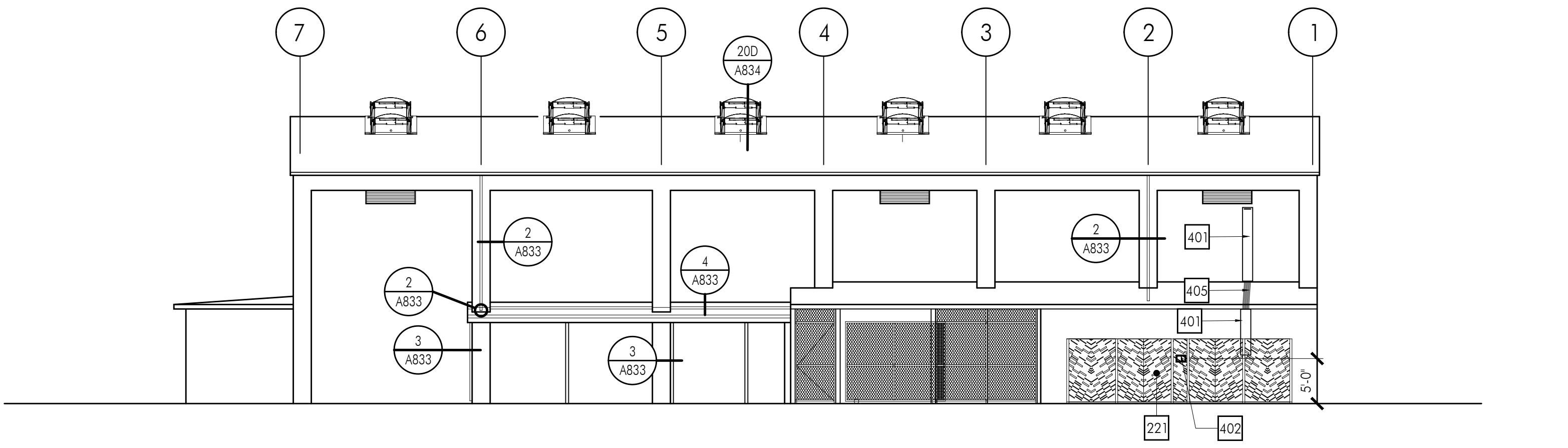
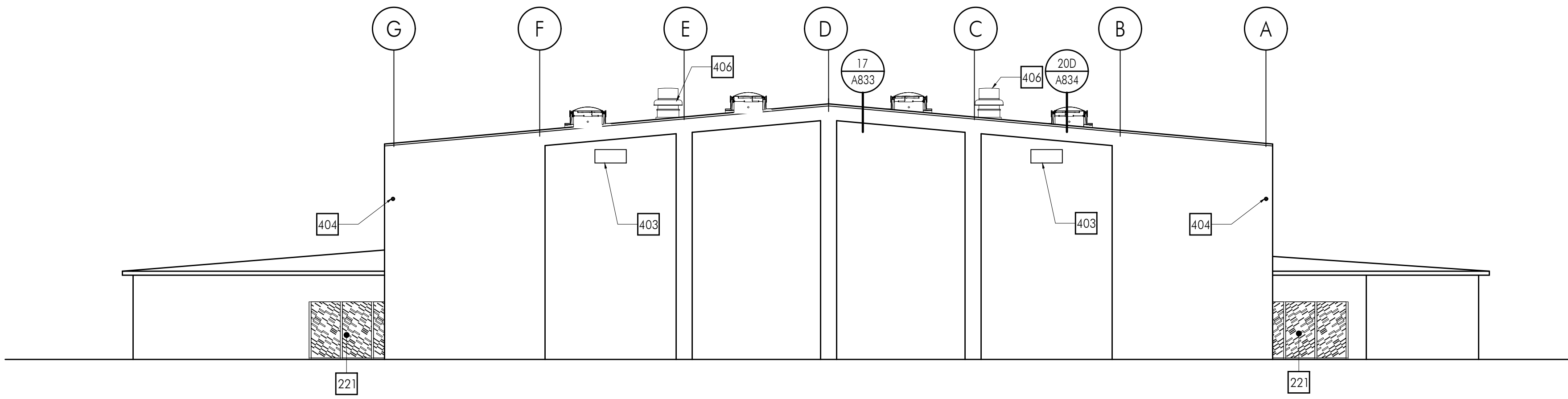
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Enlarged Partial  
Floor Plan

Sheet Number

A251



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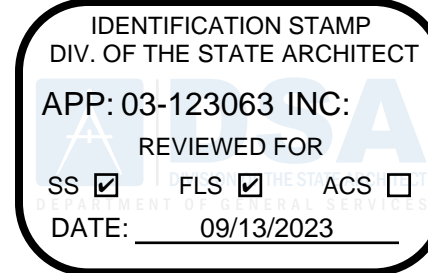
#### CONSTRUCTION KEYNOTES:

- 221 NEW HVAC EQUIPMENT ENCLOSURE. SEE 4/A821 FOR MORE INFORMATION.
- 401 HVAC REFRIGERANT LINE, ELECTRICAL LINE SUPPORT AND SURROUND. SEE DETAIL 15/A821.
- 402 WALL MOUNTED LIGHT FIXTURE SEE ELECTRICAL FOR MORE INFORMATION.
- 403 INFILL EXISTING EXHAUST FAN OPENING SEE 23/55. PAINT AND PATCH TO MATCH ADJACENT WALL FINISH AND COLOR.
- 404 SECONDARY CONDENSATE LINE TROUGH WALL SEE 13/A821 AND 1/A801
- 405 HVAC REFRIGERANT LINE, ELECTRICAL LINE SUPPORT ON ROOF SEE DETAIL 2/A834.
- 406 NEW ROOF EXHAUST FAN SEE 11/A831, SEE MECHANICAL AND STRUCTURAL FOR MORE INFORMATION.

#### GENERAL NOTES:

- THE GENERAL CONTRACTOR SHALL COORDINATE THE EXACT SIZE AND LOCATION OF MECHANICAL EQUIPMENT CURBS AND PLATFORMS WITH ALL AFFECTED SUBCONTRACTORS AND APPLICABLE STRUCTURAL DETAILS. THE ARCHITECT SHALL PROVIDE REVIEW PRIOR TO FINALIZING LOCATIONS.
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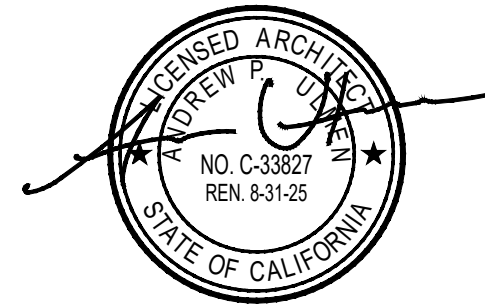
Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev	Date	Issue
03.06.23	09.08.23	DSA SUBMITTAL DSA BACKCHECK

Date: 08.18.2023  
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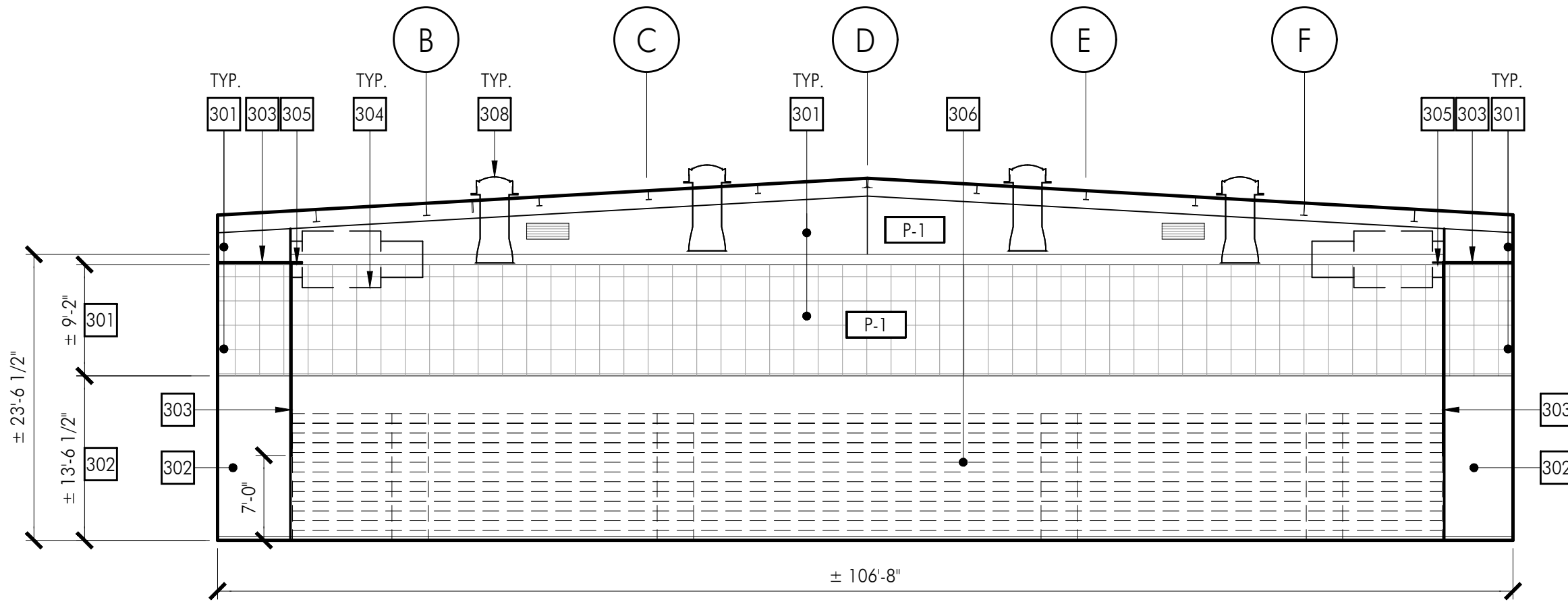
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Building 'R' and 'S'  
Exterior Elevations

Sheet Number

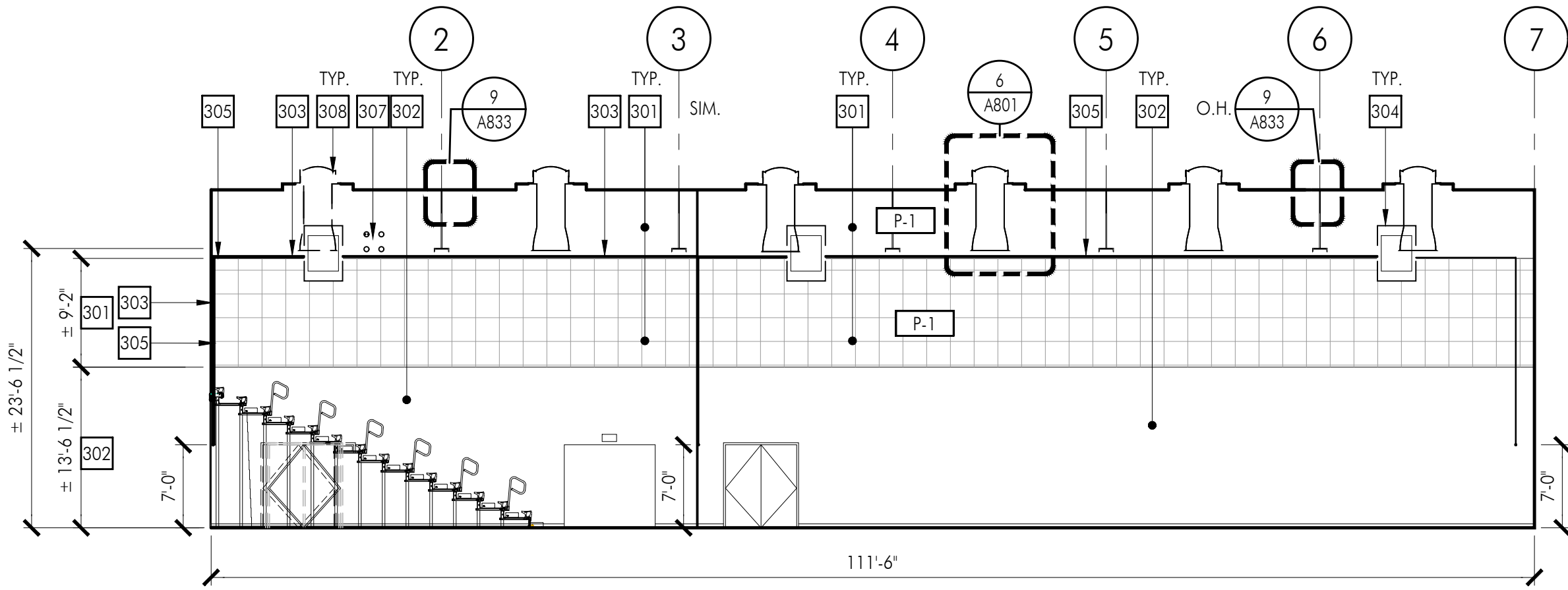
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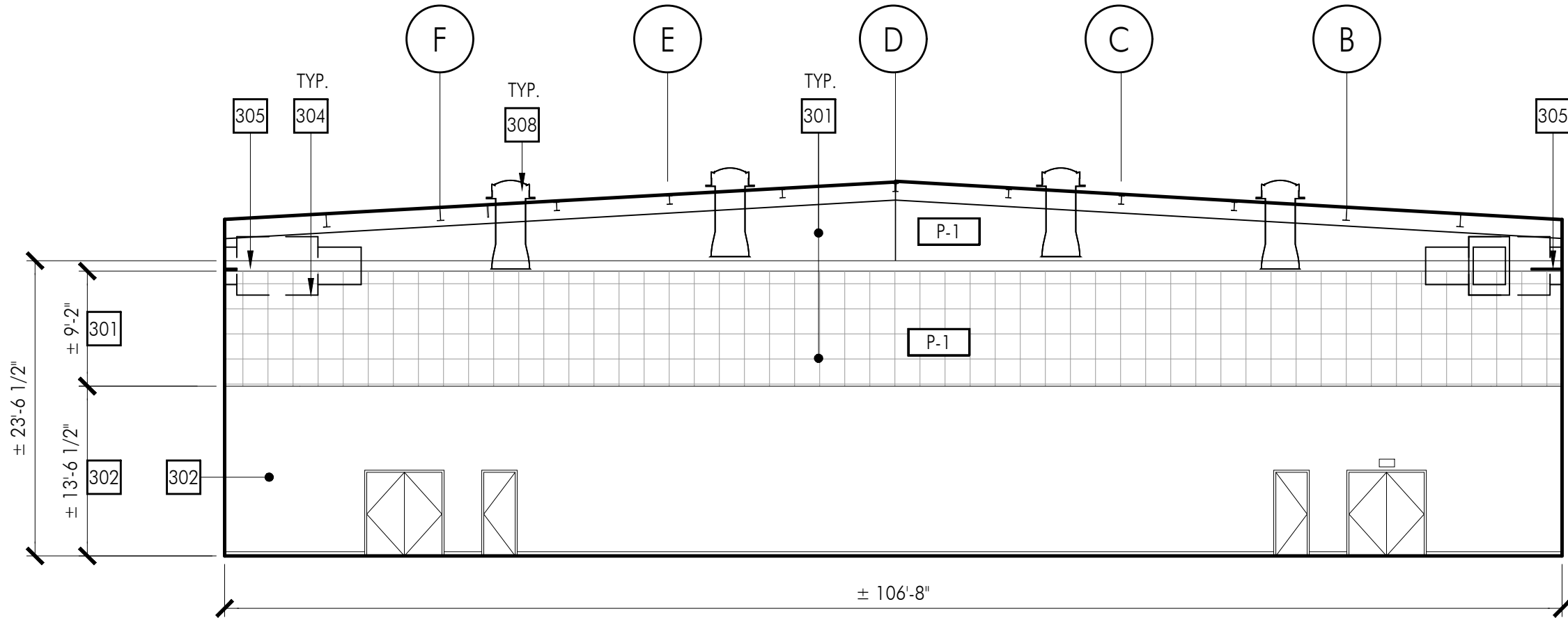
1 BUILDING 'S' - GYM 101 - INTERIOR NORTH ELEVATION

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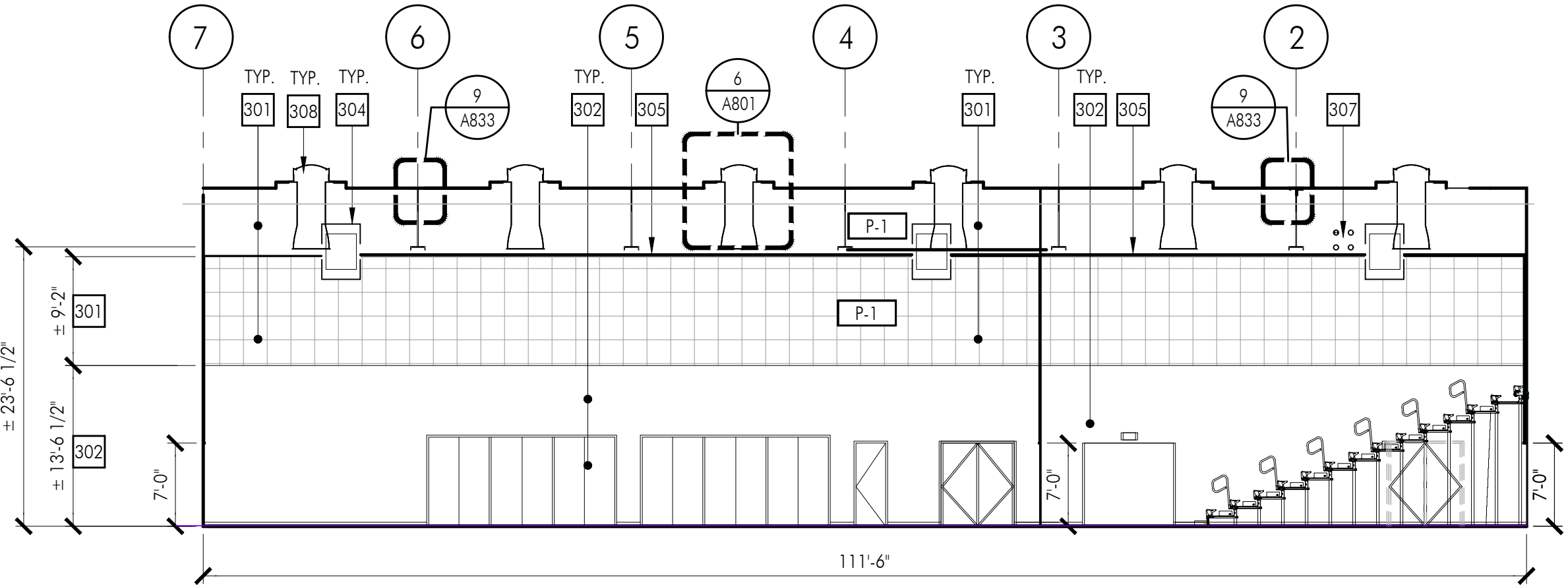
2 BUILDING 'S'- GYM 101 - INTERIOR EAST ELEVATION

SCALE: 3/32"=1'-0"



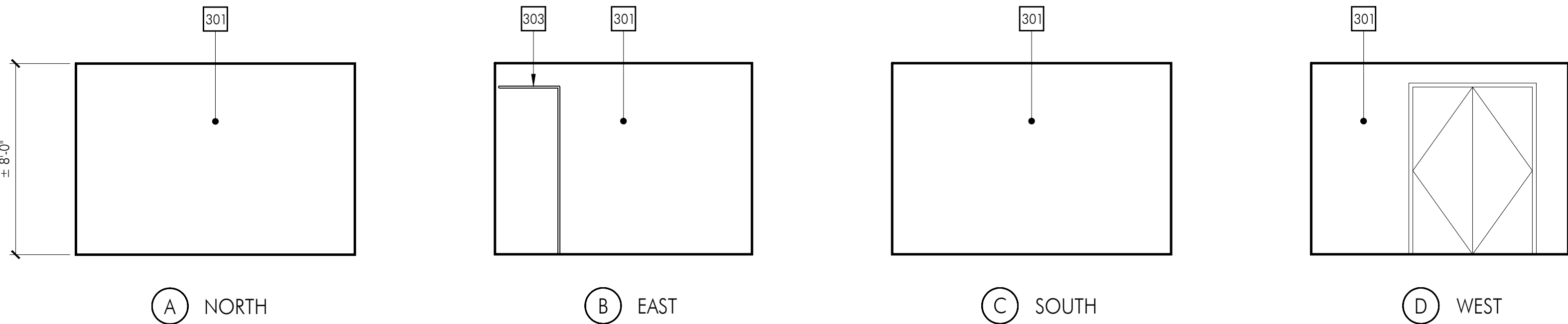
3 BUILDING 'S' - GYM 101 - INTERIOR SOUTH ELEVATION

SCALE: 3/32"=1'-0"



4 BUILDING 'S'- GYM 101 - INTERIOR WEST ELEVATION

SCALE: 3/32"=1'-0"



5 BUILDING 'N' BOLIER ROOM S02 - INTERIOR ELEVATIONS

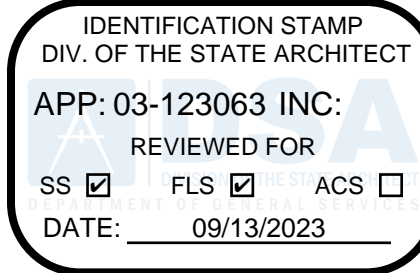
SCALE: 1/4"=1'-0"

#### CONSTRUCTION KEYNOTES:

- 301 PREPARE, PRIME AND PAINT PORTION OF WALLS. SEE MATERIAL LEGEND ON A611 FOR MORE INFORMATION.
- 302 EXISTING WALL AND/OR MURAL TO BE PROTECTED IN PLACE DURING WORK.
- 303 NEW WALL-MOUNTED PRIMARY CONDENSATE LINE TO FLOOR DRAIN. ATTACH TO WALL PER 7/M300
- 304 NEW AHU. SEE A211 FOR MORE INFORMATION.
- 305 NEW WALL-MOUNTED SECONDARY LINE TO EXTERIOR WALL SEE 13/AB21
- 306 EXISTING BLEACHERS PROTECT IN-PLACE
- 307 APPROXIMATE LOCATION OF TROUGH WALL PENETRATIONS FOR HVAC REFRIGERANT LINES, ELECTRICAL POWER, AND LOW VOLTAGE. SEE 1/A801, 10/20/55 AND 12/54 FOR MORE INFORMATION.
- 308 NEW TUBULAR SKYLIGHT SEE 6/A801

#### GENERAL NOTES:

- FOR FINISH SCHEDULE, SEE DRAWING A611.
- EXISTING WALL-MOUNTED PLUMBING PIPES, ELECTRICAL CONDUITS, WALL-MOUNTED SPORTING EQUIPMENT, ETC., SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED IN THE DEMOLITION PLANS. CONTRACTOR TO FIELD VERIFY NEW WALL-MOUNTED LINES WILL NOT BE IN CONFLICT WITH OTHER EXISTING ELEMENTS.
- REMOVE AND SALVAGE ALL BANNERS, REINSTALL AFTER CONSTRUCTION AND PAINTING HAS BEEN COMPLETED
- PROTECT IN-PLACE ALL EXISTING SURFACES TO REMAIN INCLUDING BUT NOT LIMITED TO FLOORING AND CEILING FINISHES.
- REFER TO HAZARDOUS MATERIALS REPORT PER SPECIFICATIONS



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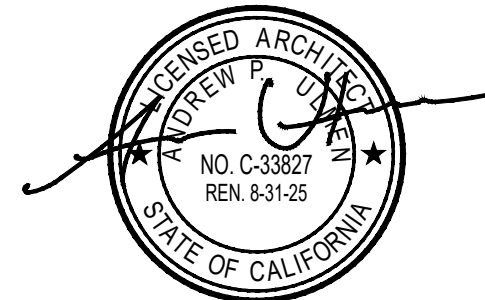
Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

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Interior Elevations

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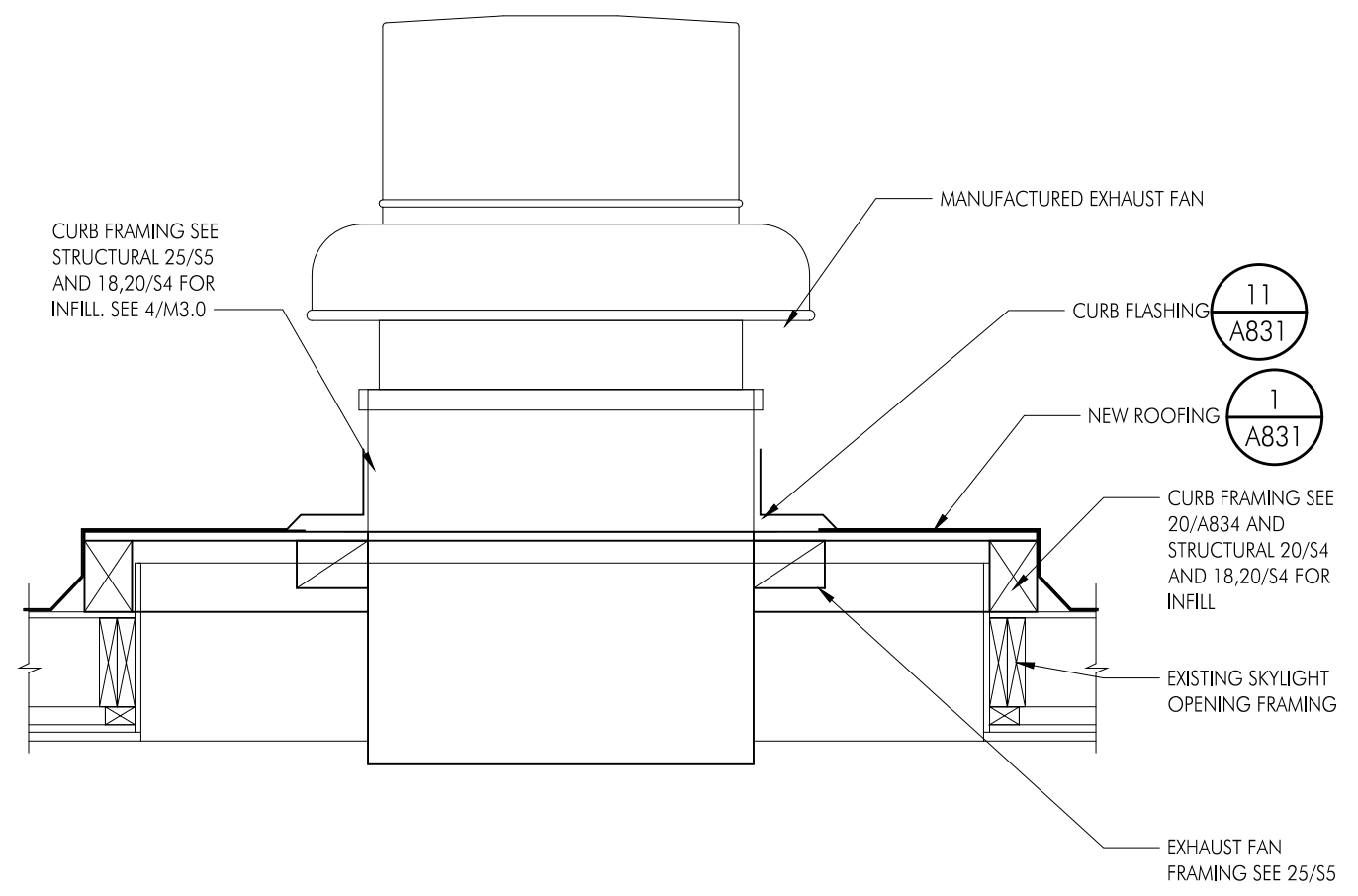
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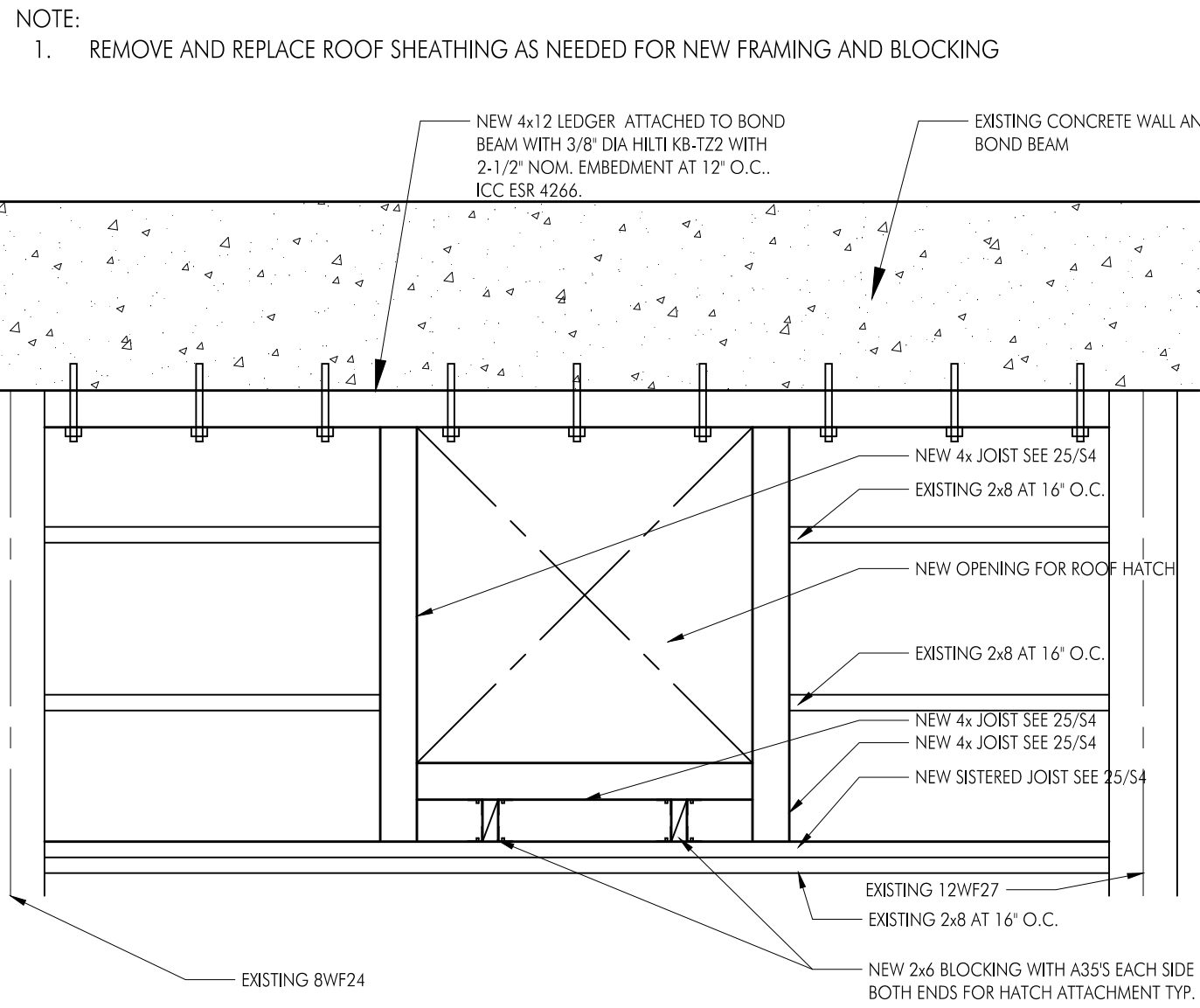




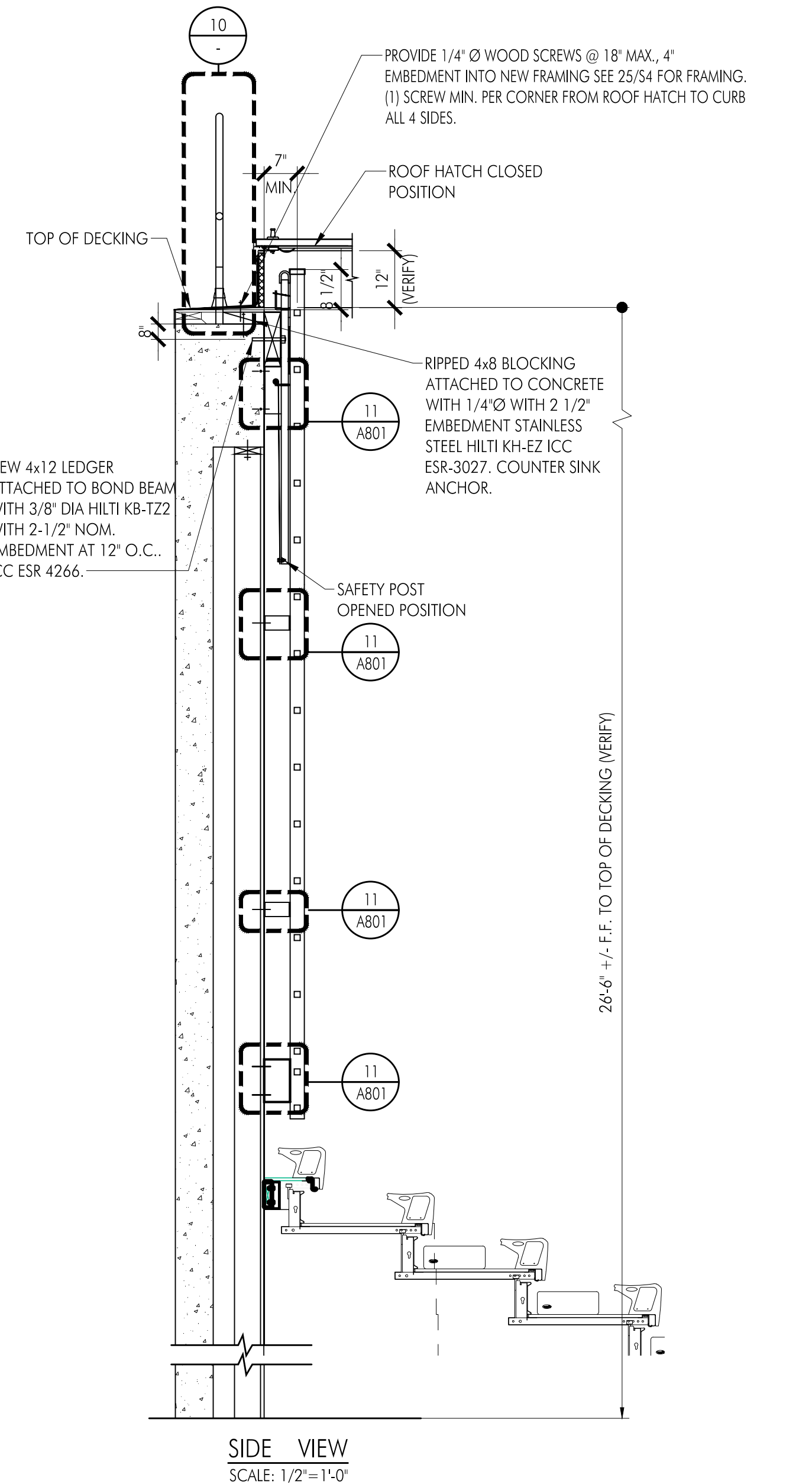
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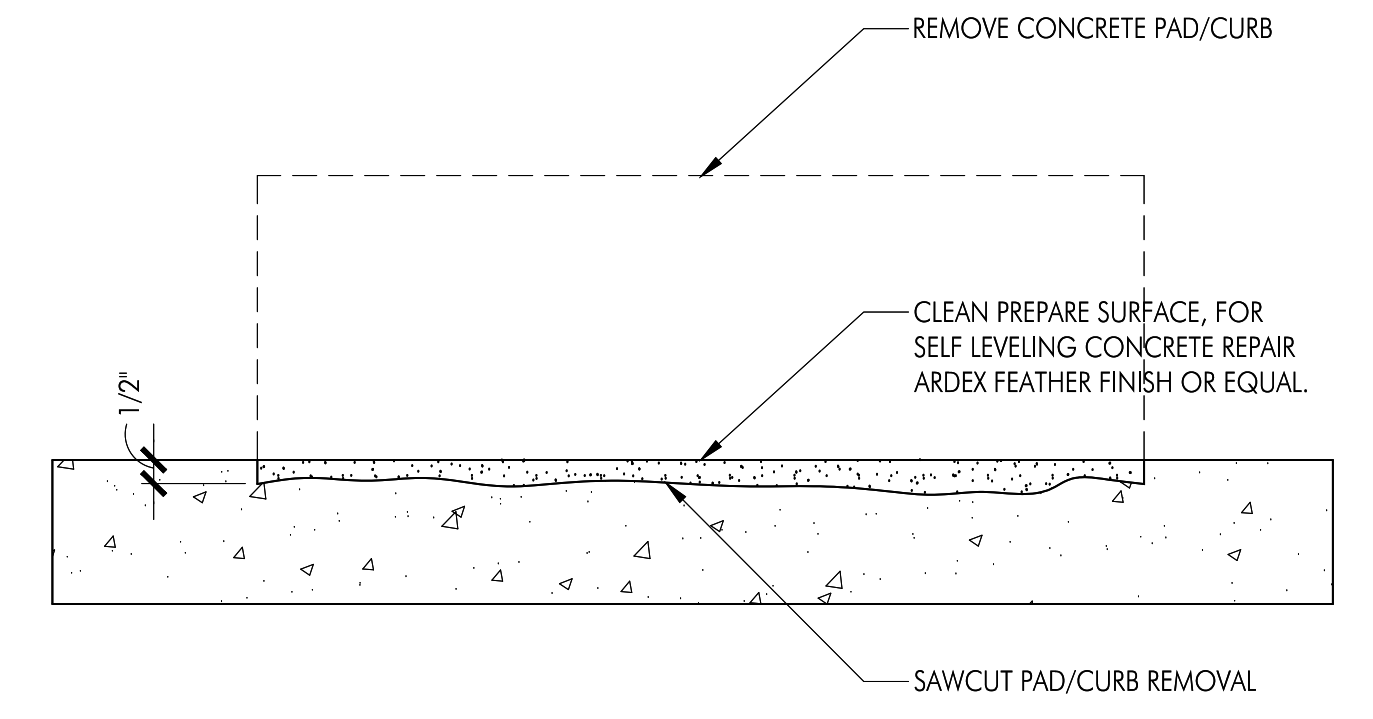
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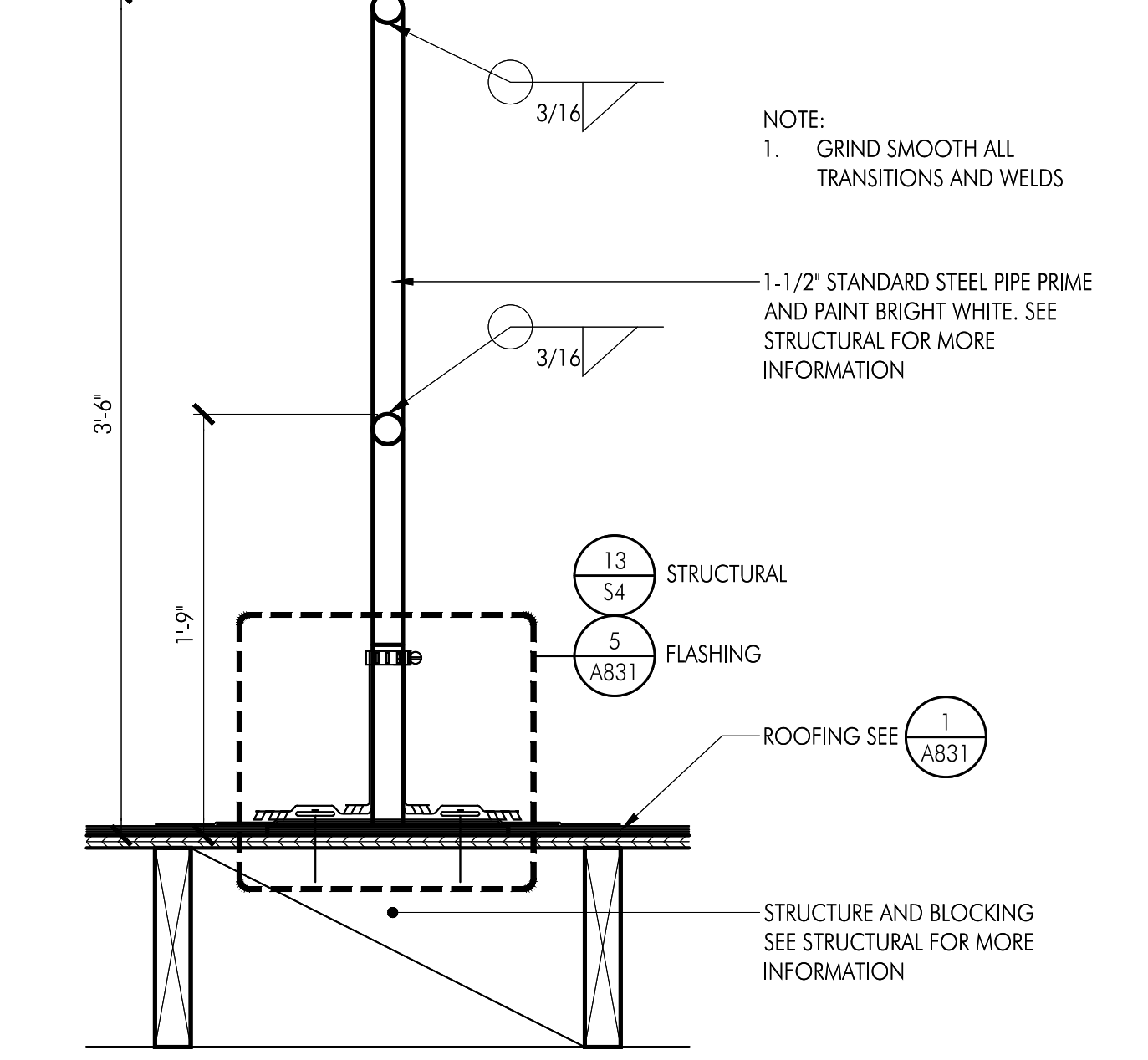
18 ROOF HATCH BLOCKING PLAN  
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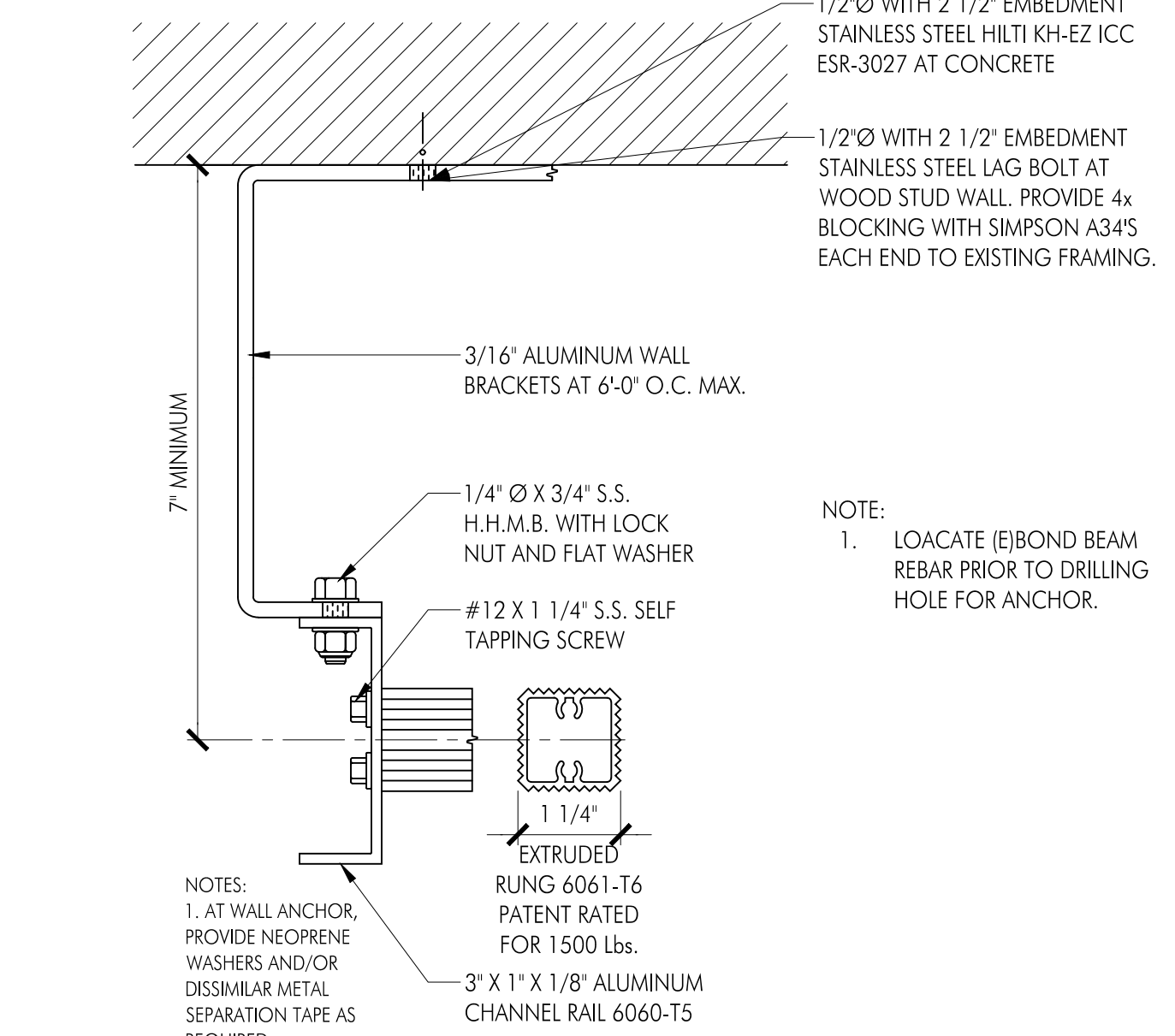
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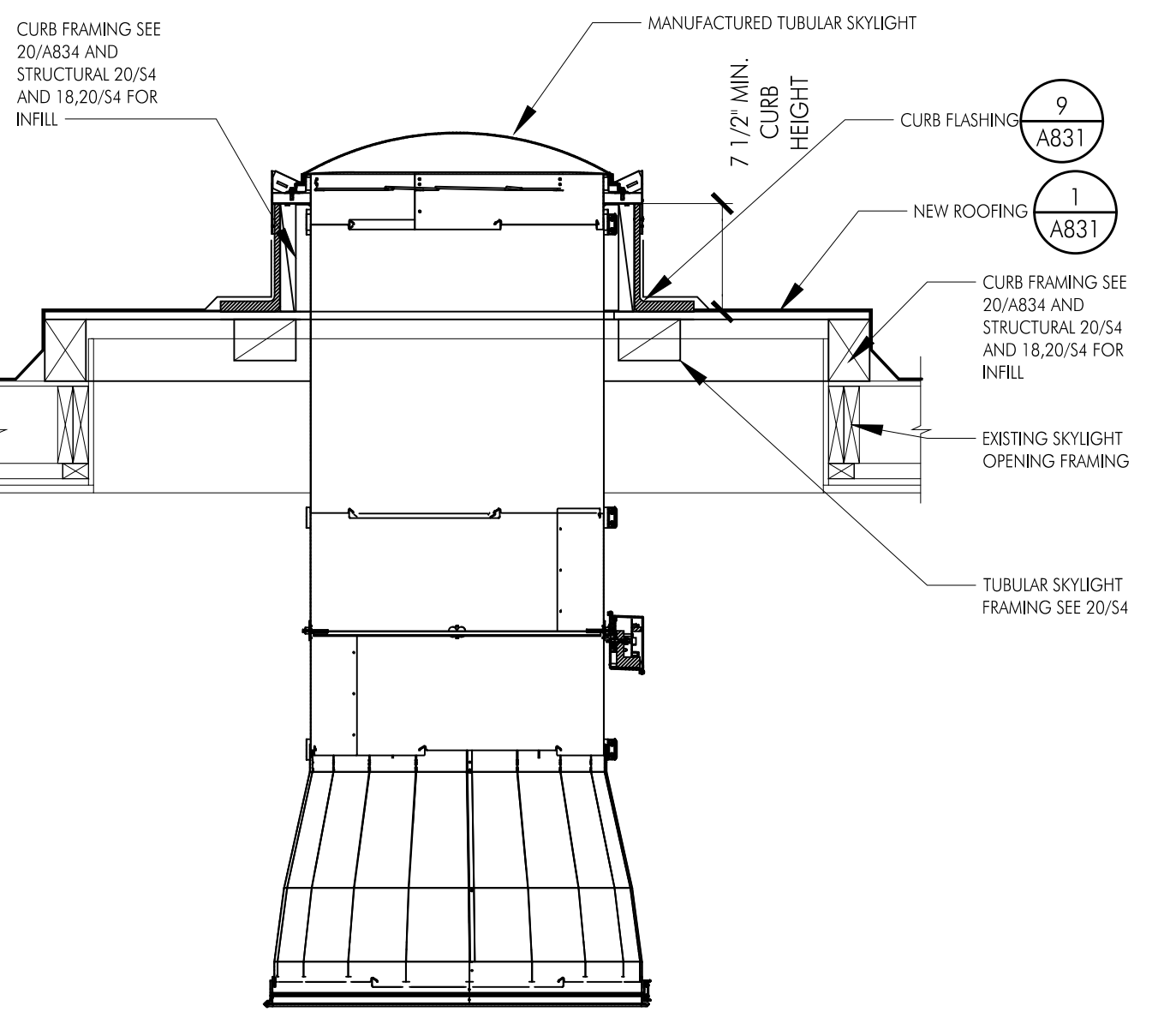
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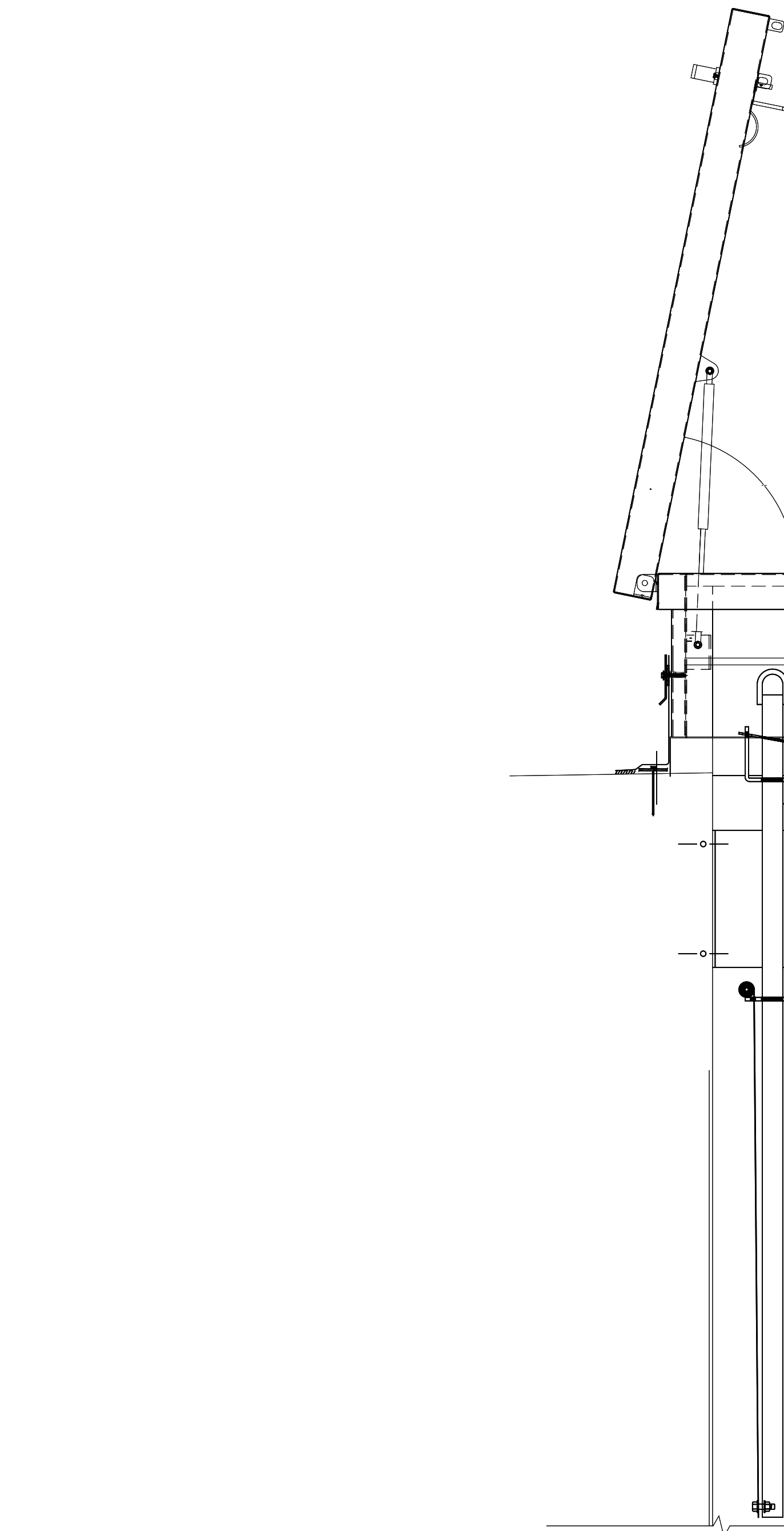
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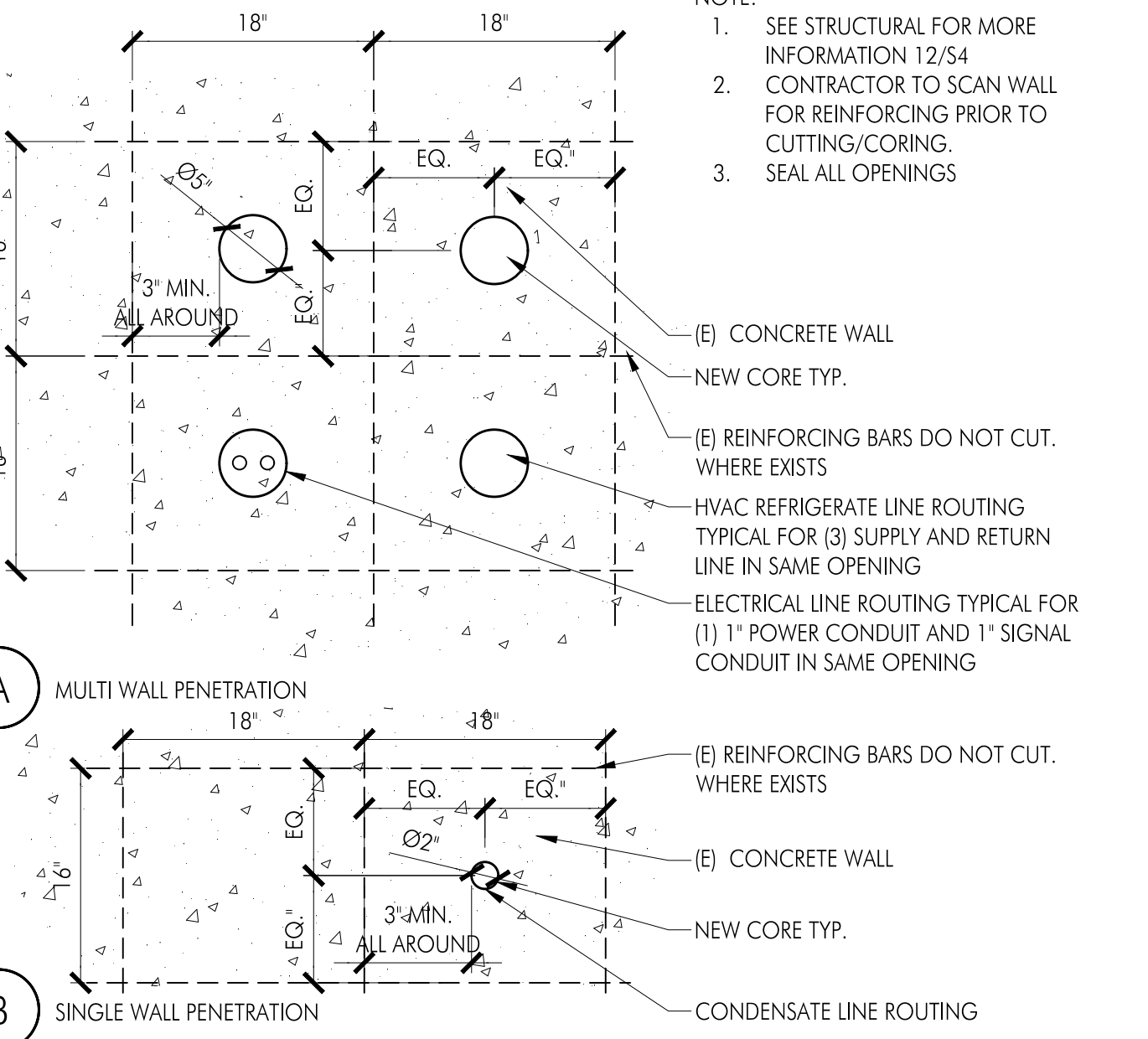
11 LADDER DETAIL  
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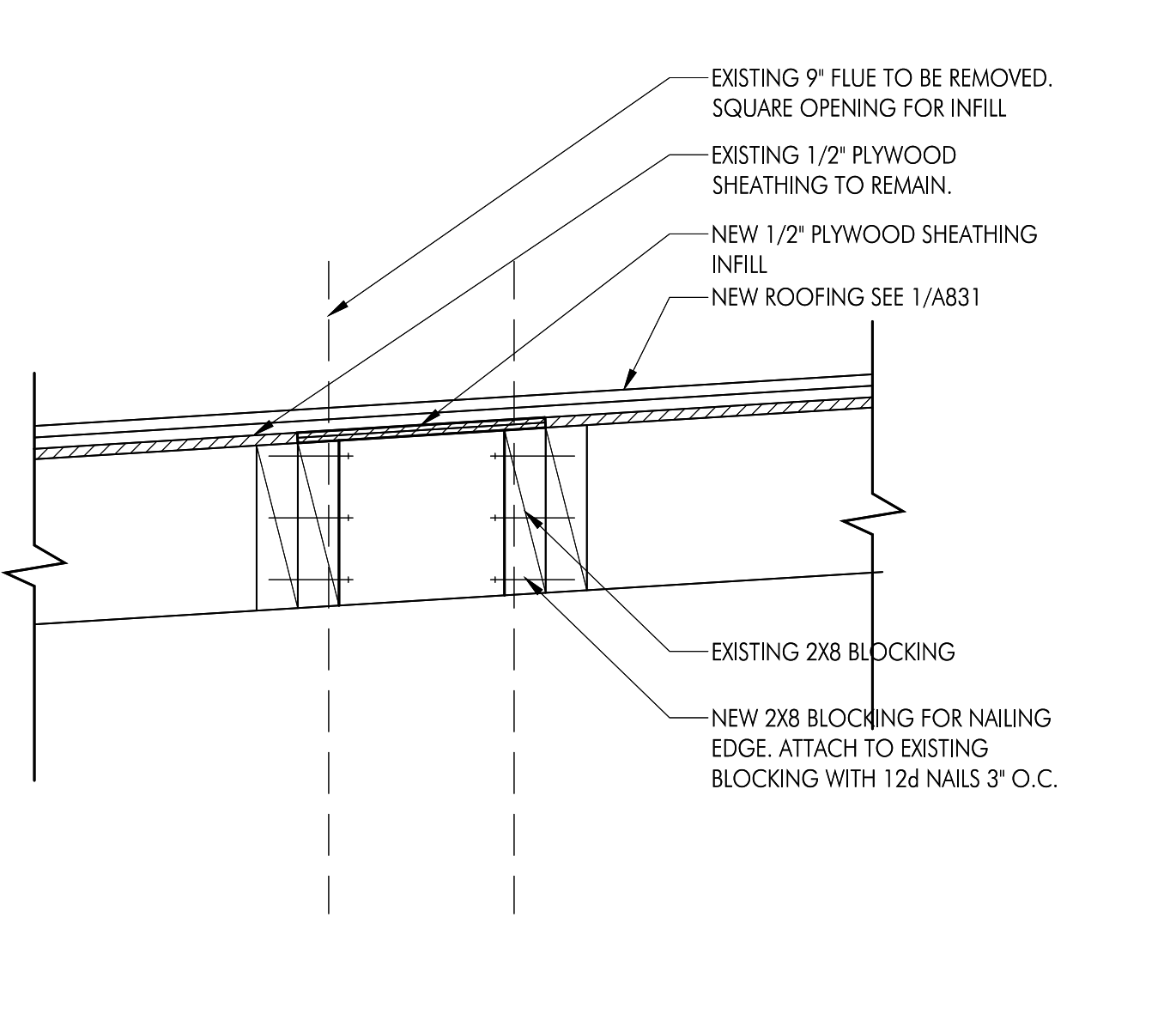
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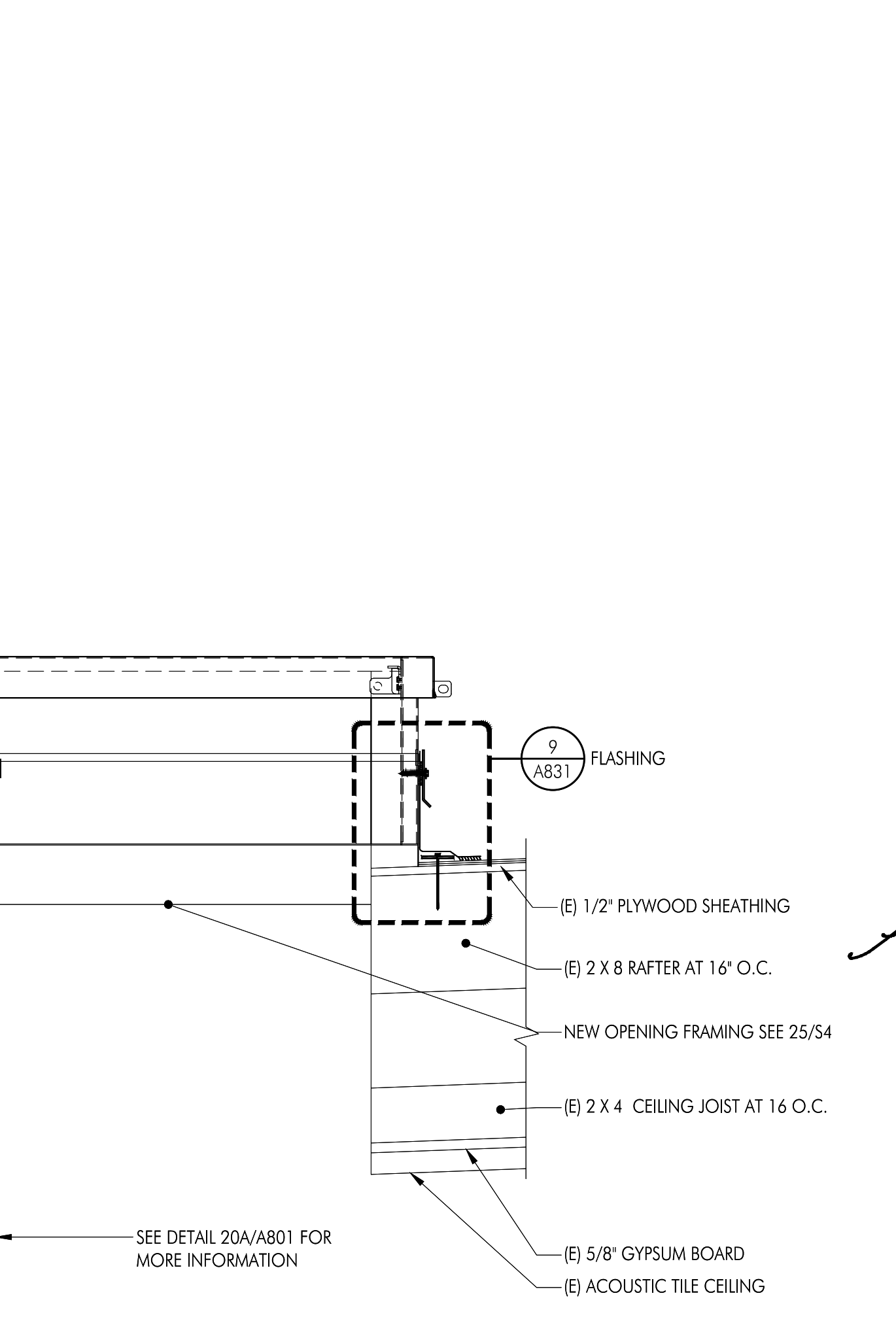
8 ROOF HATCH  
SCALE: 1 1/2"=1'-0"



1 WALL CORE ELEVATION  
SCALE: 1"=1'-0"



2 FLUE OPENING INFILL  
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8 ROOF HATCH  
SCALE: 1 1/2"=1'-0"

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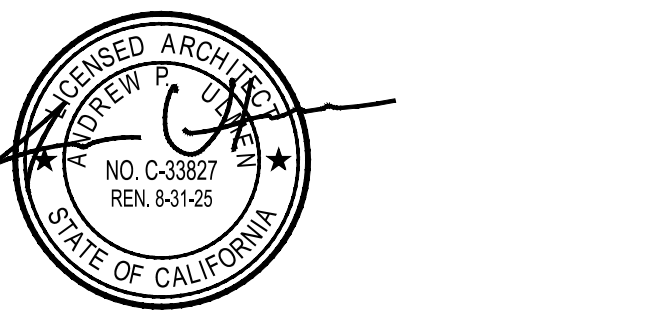
Gymnasium HVAC Replacement

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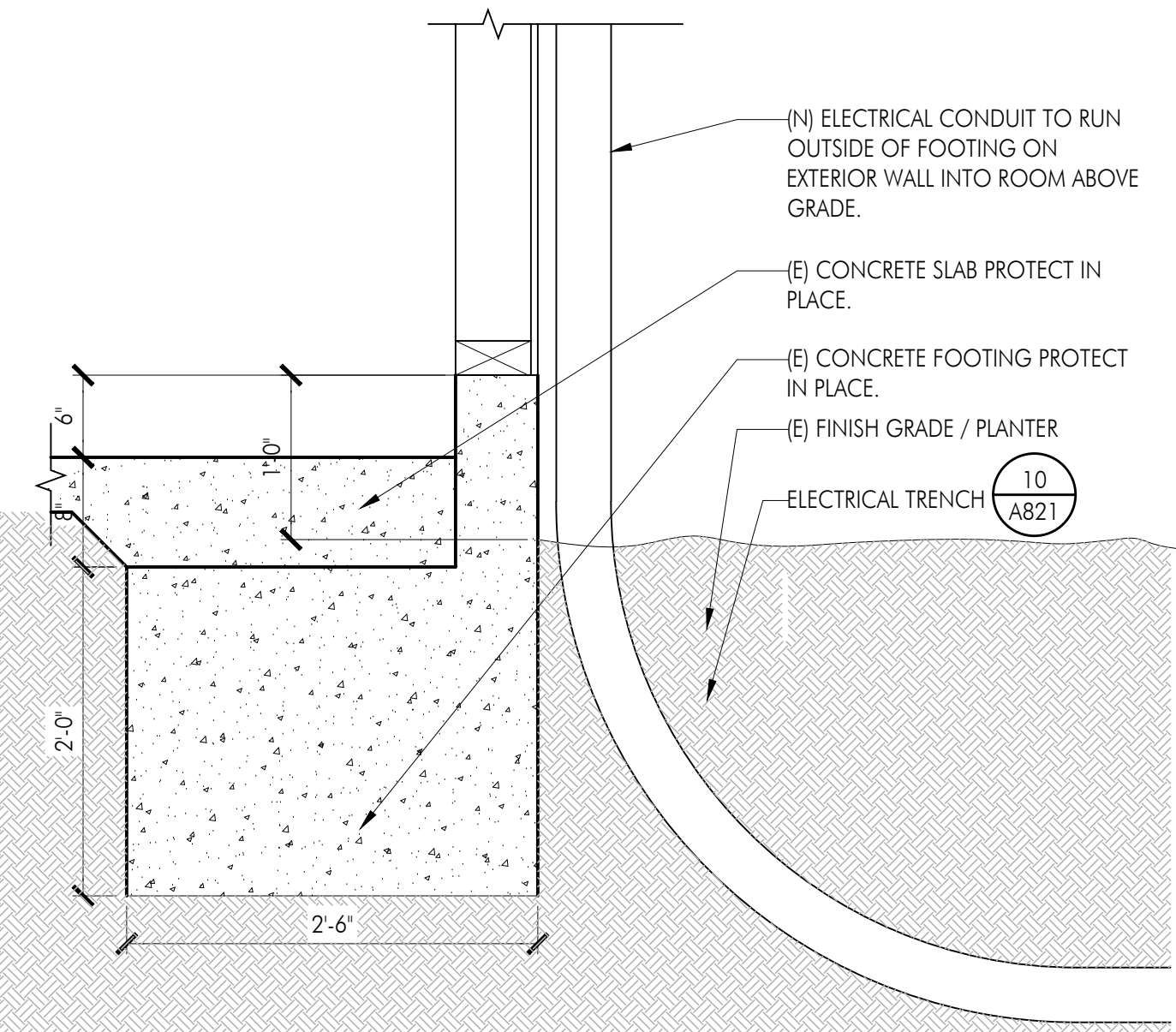
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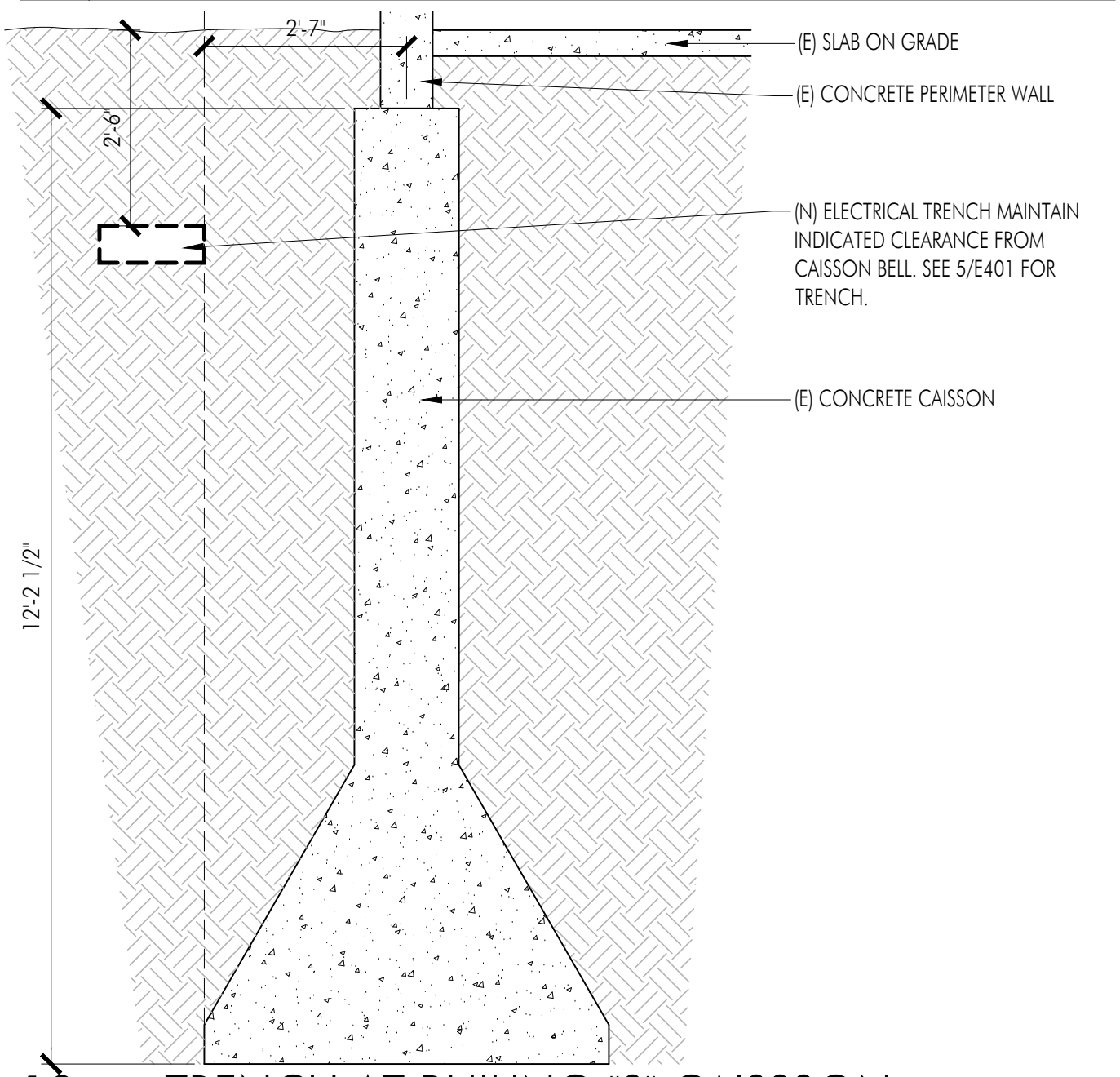




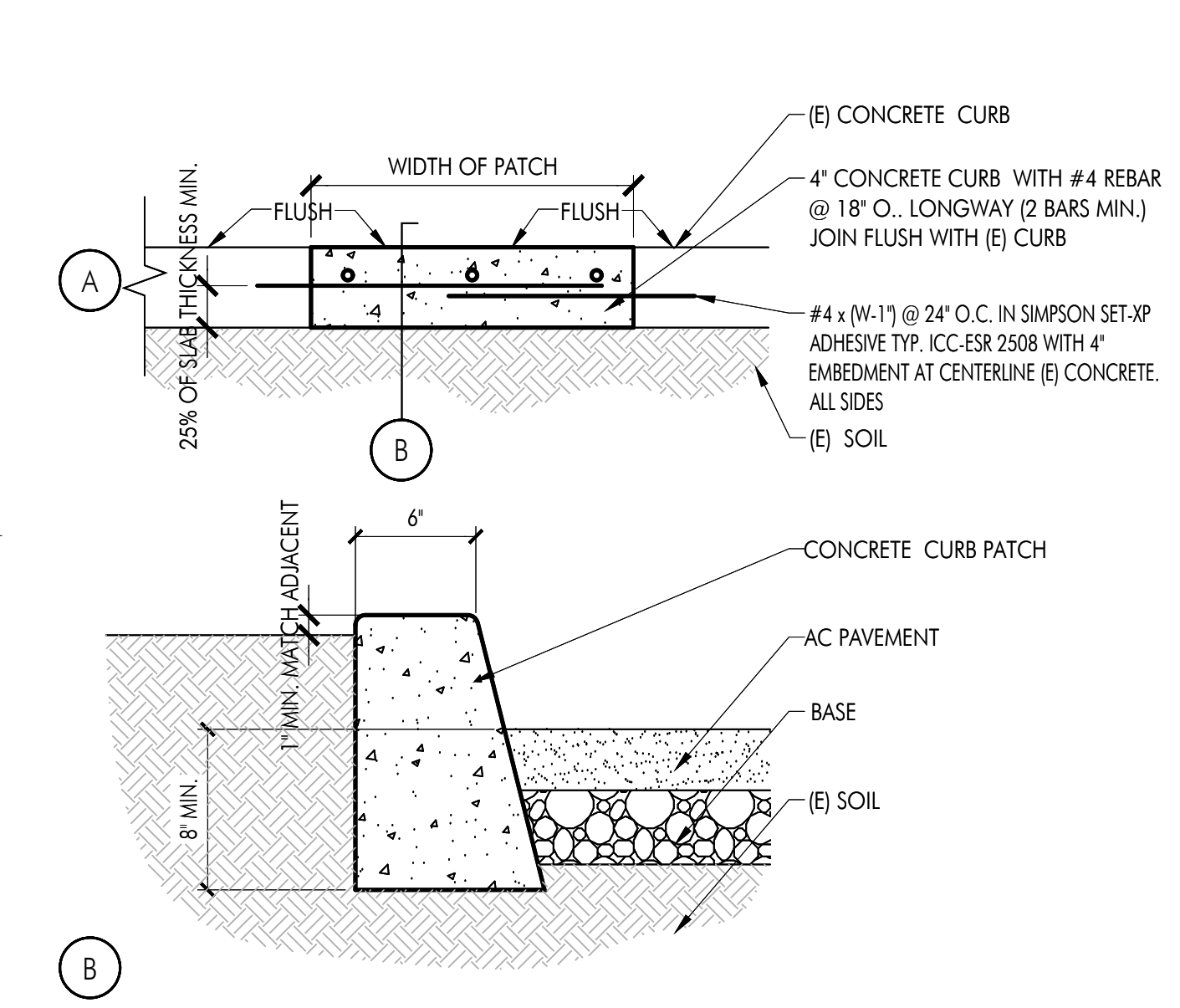
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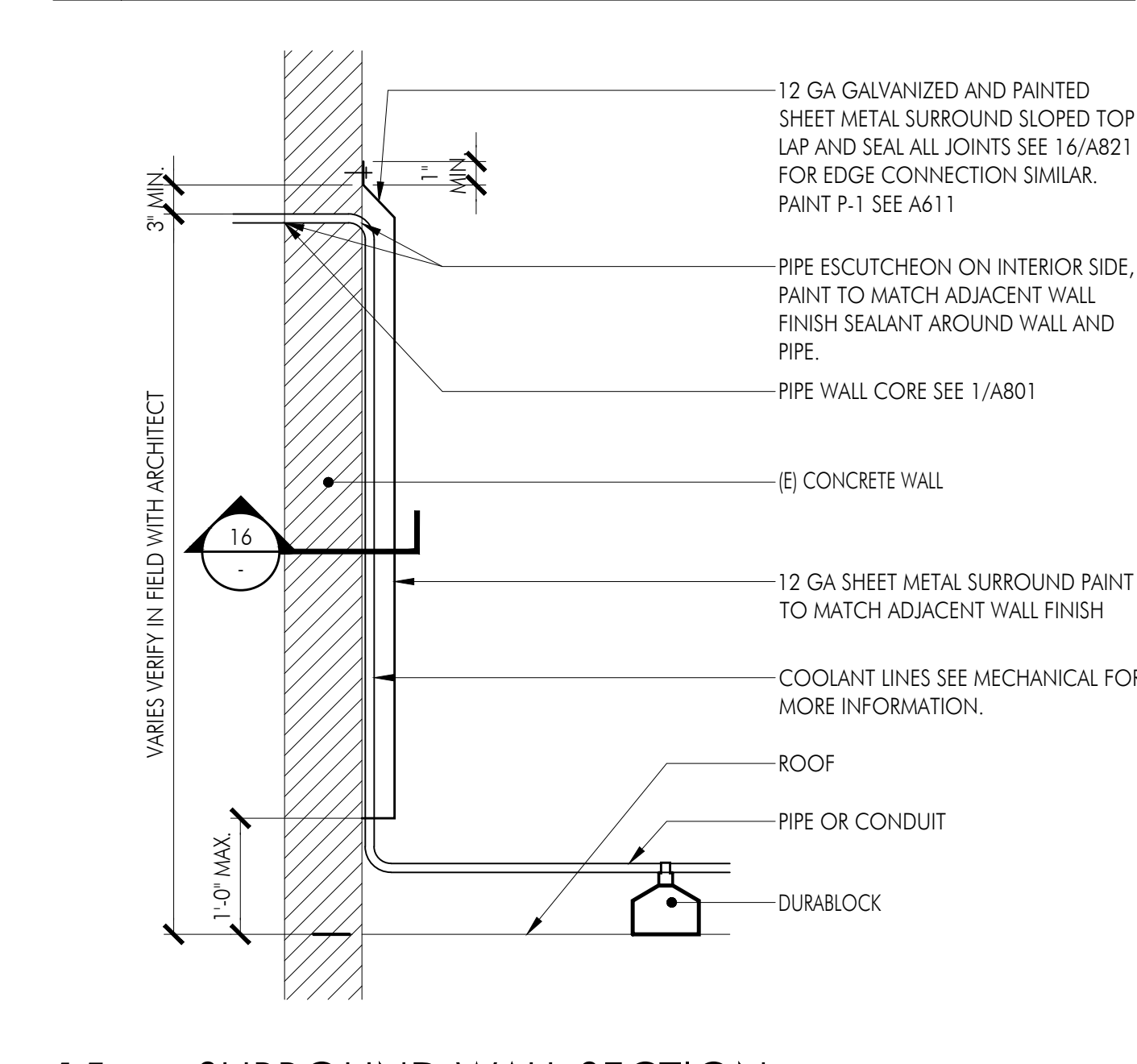
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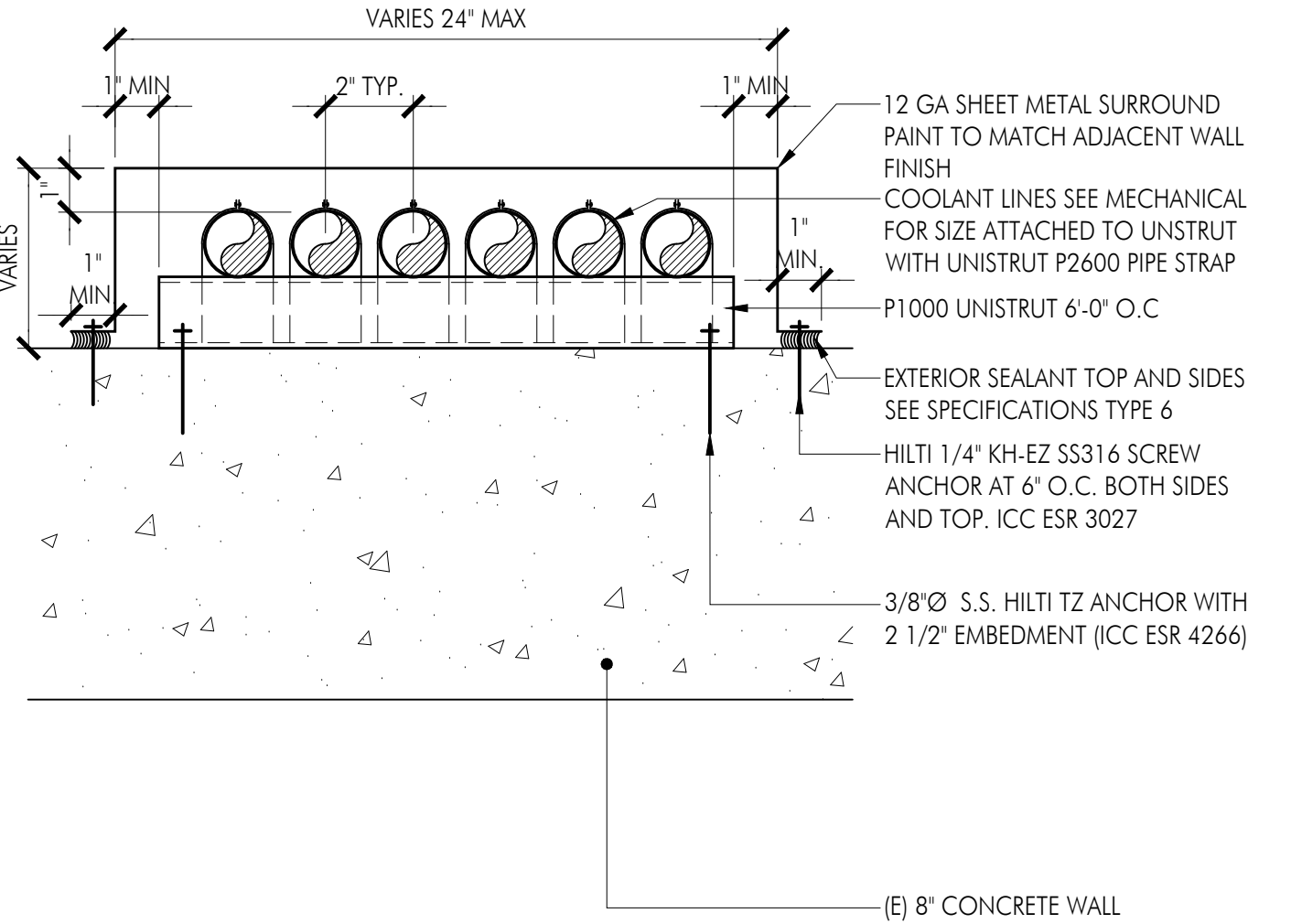
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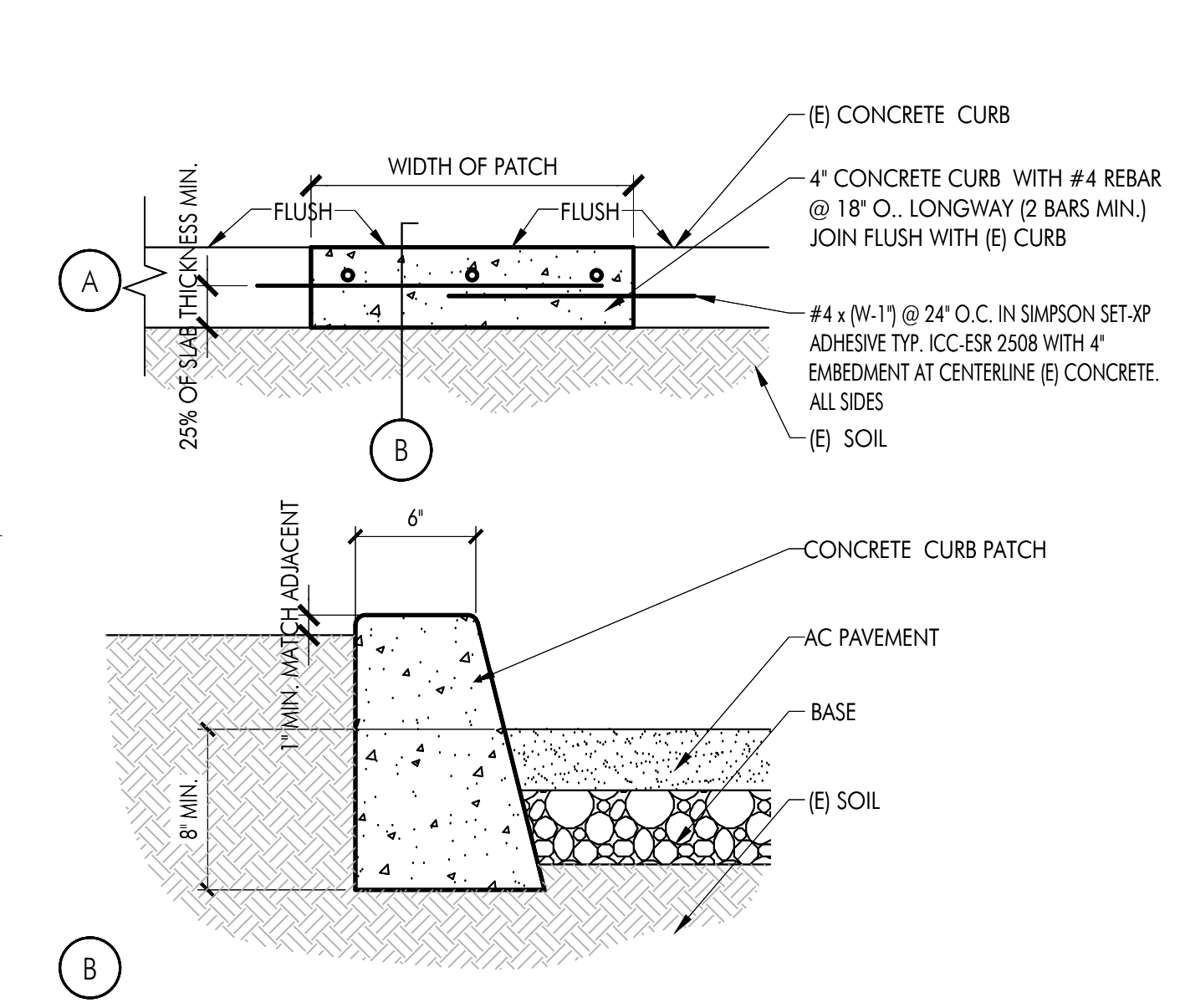
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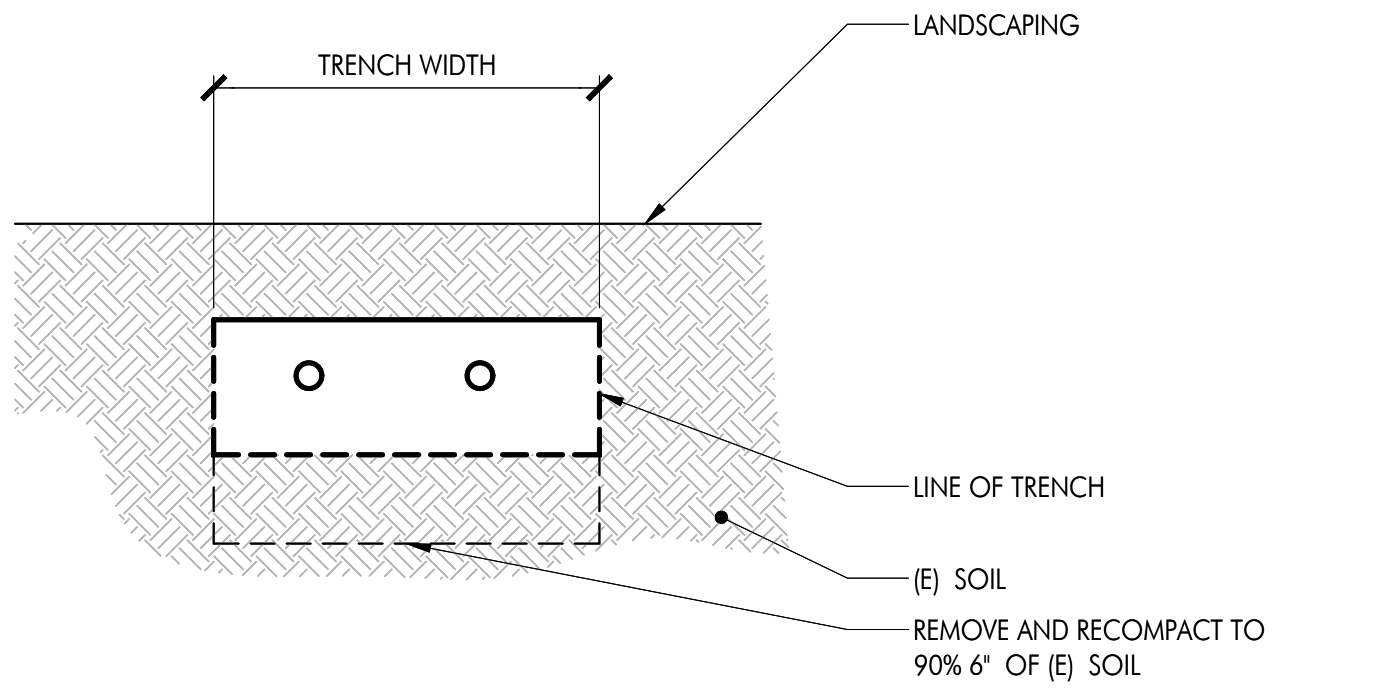
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16 SURROUND SECTION  
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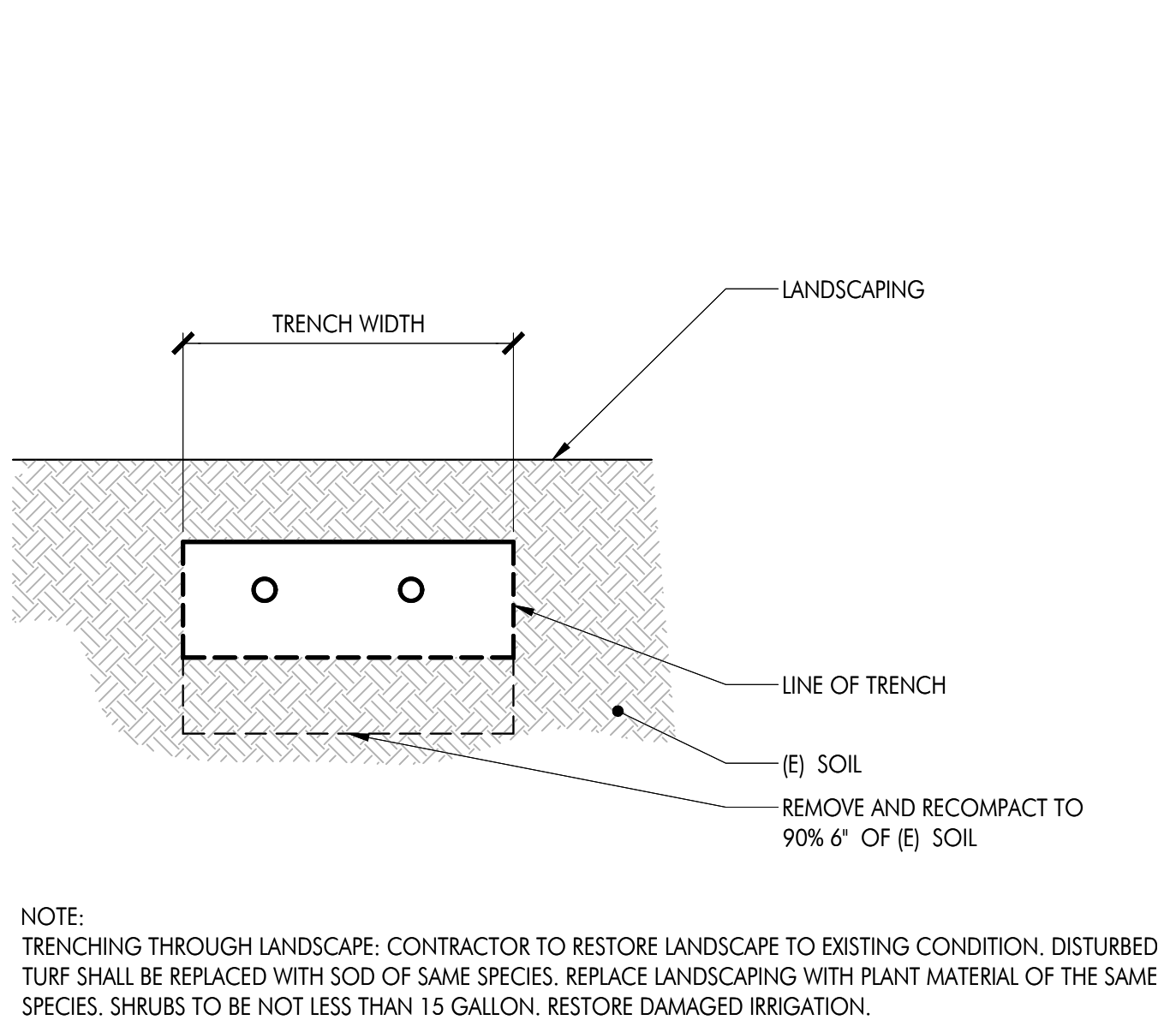
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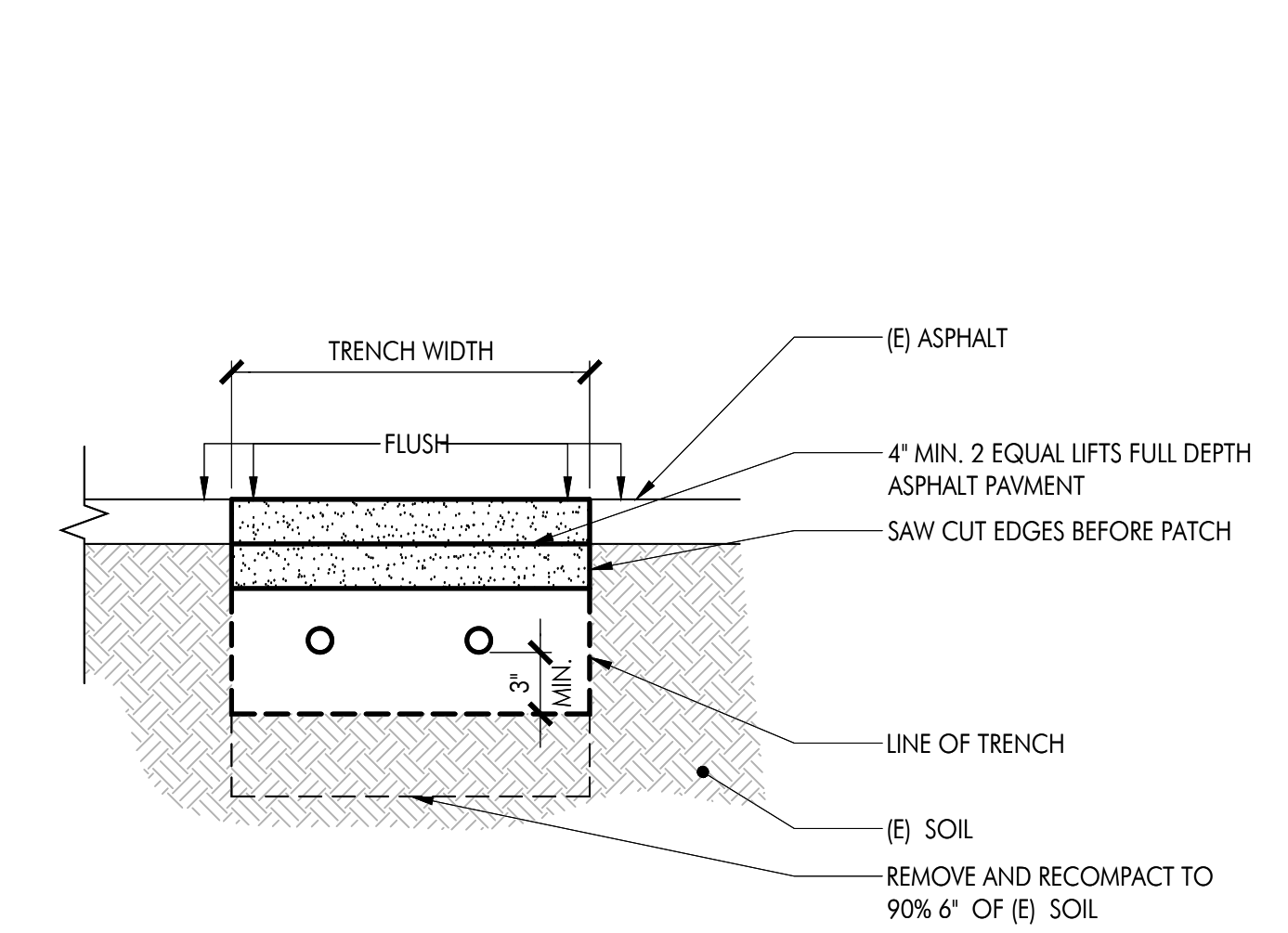
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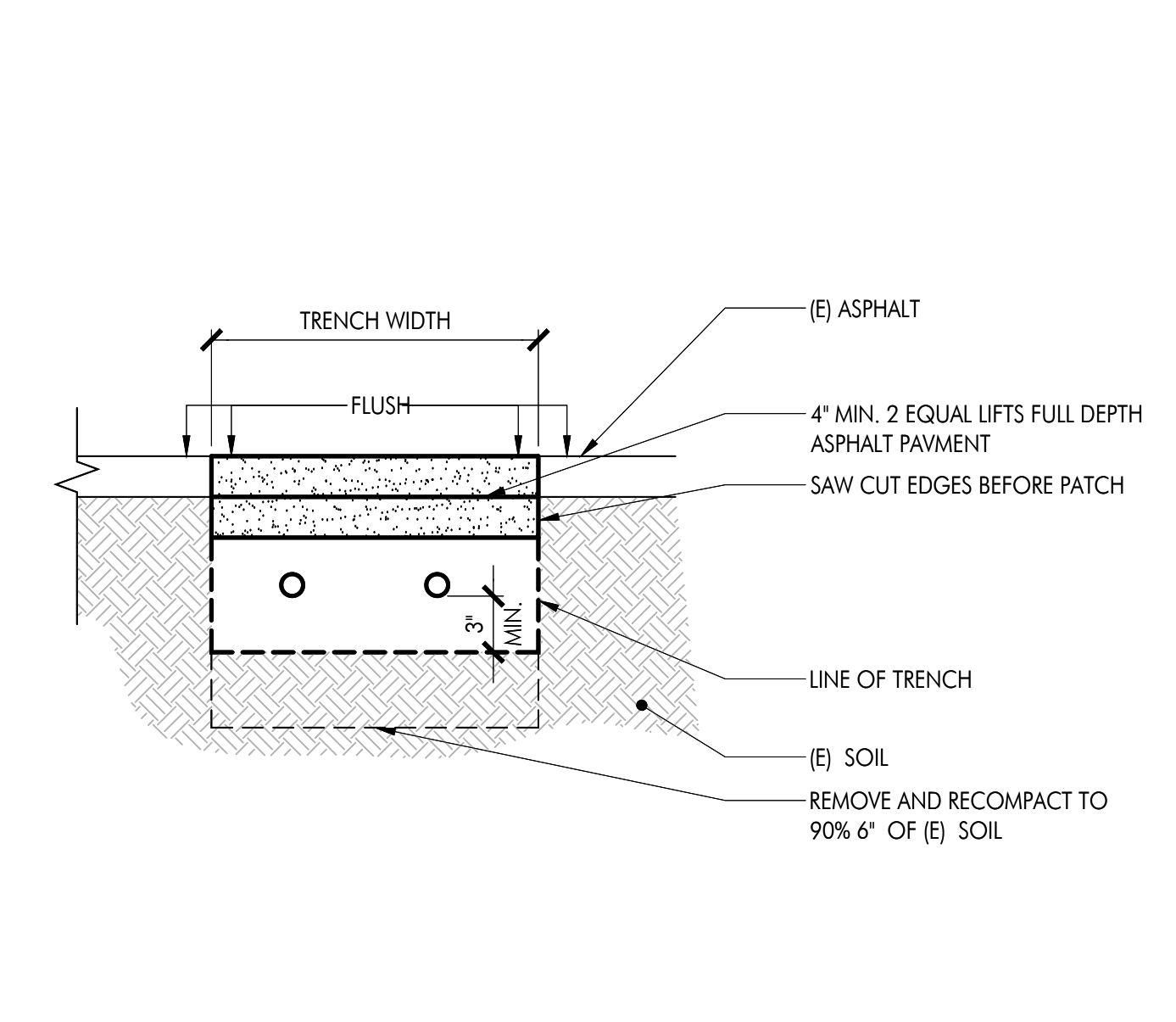
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5 CONCRETE PAD  
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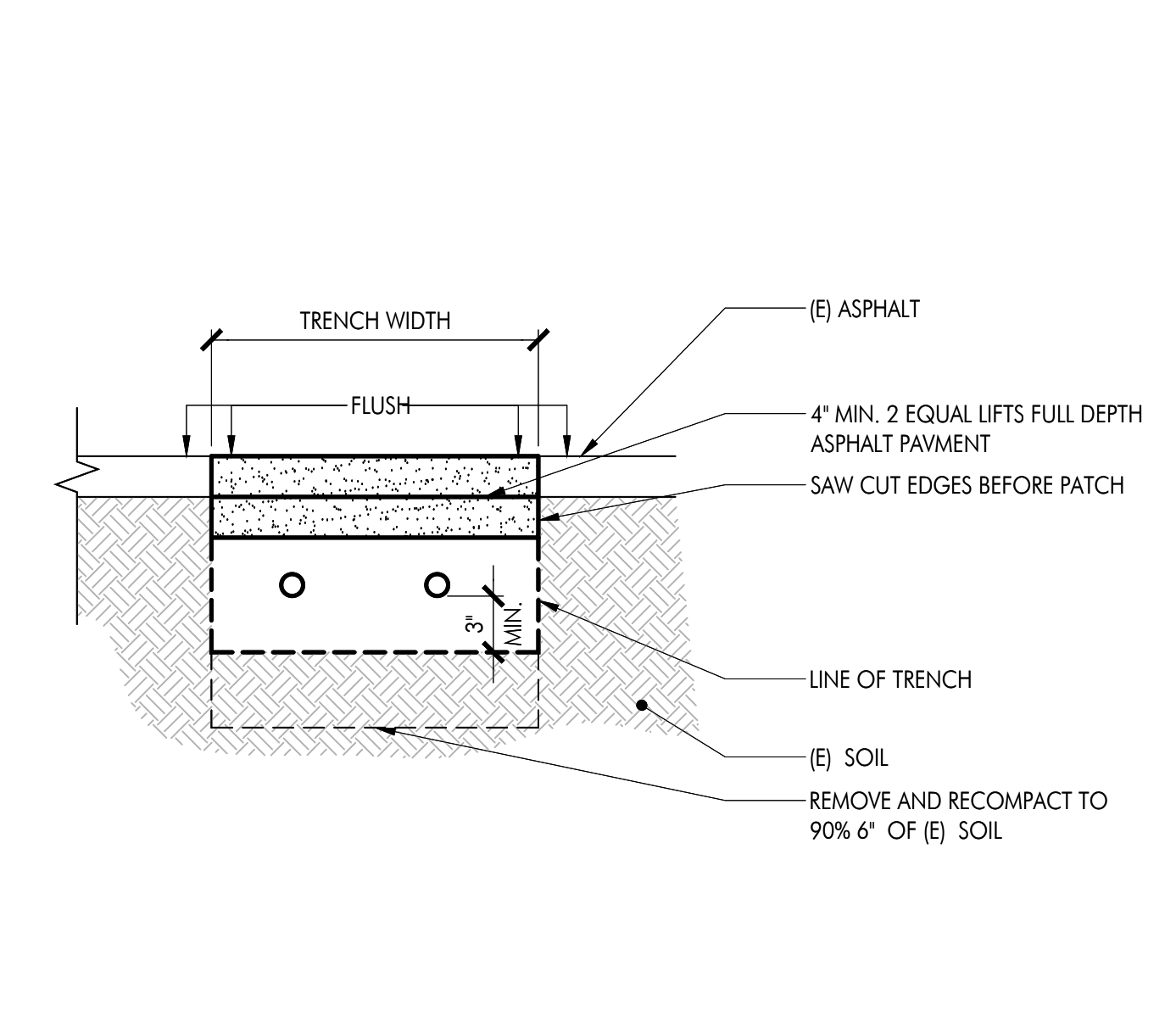
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19 TRENCH AT BUILDING "S" CAISSON  
SCALE: 1/2"=1'-0"



15 SURROUND WALL SECTION  
SCALE: 3/4"=1'-0"



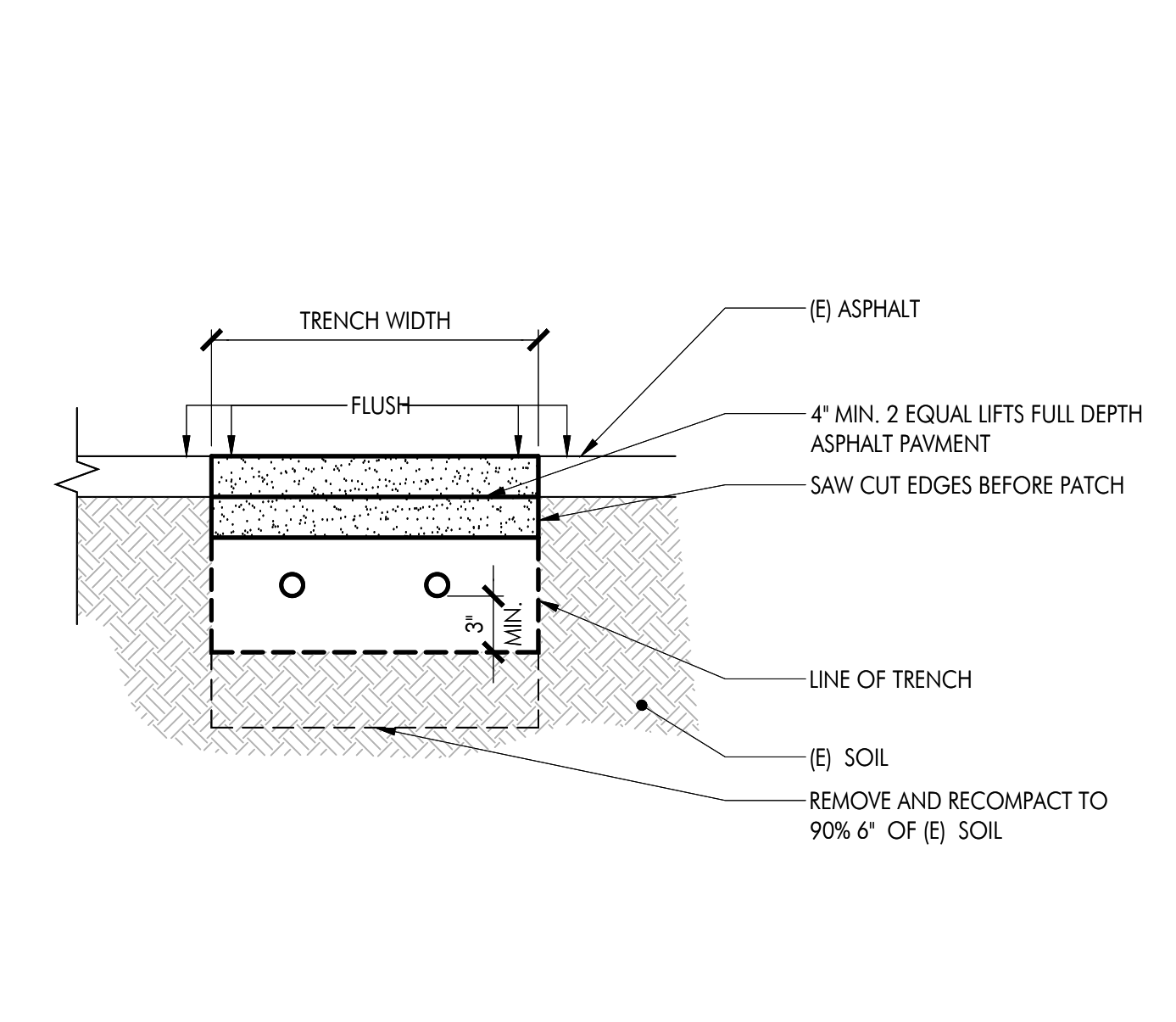
14 CONCRETE CURB PATCH  
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13 CONDENSATE DRAIN LINE  
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10 LANDSCAPE PATCH  
SCALE: 1 1/2"=1'-0"



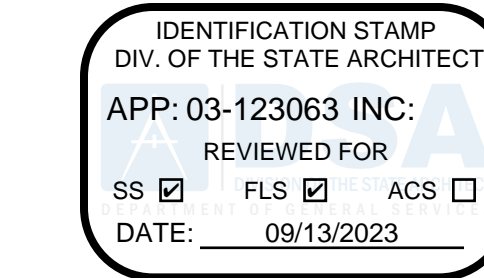
6 ASPHALT PATCH  
SCALE: N.T.S.



5 CONCRETE PAD  
SCALE: 1 1/2"=1'-0"



2 SLAB ON GRADE PATCH / CONTROL JOINT  
SCALE: N.T.S.

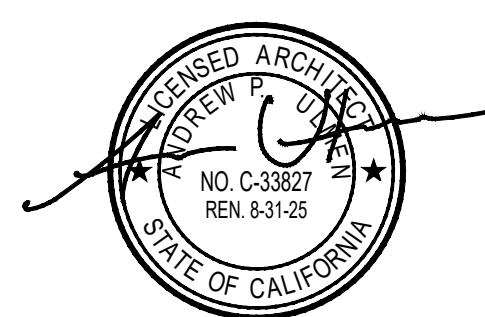


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Rev	Date	Issue
03.06.23	03.06.23	DSA SUBMITTAL
09.08.23	09.08.23	DSA BACKCHECK

Date: 08.18.2023  
Scale: As Shown  
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Checked By: AC, AF

Architect / Engineer Stamp



Consultants

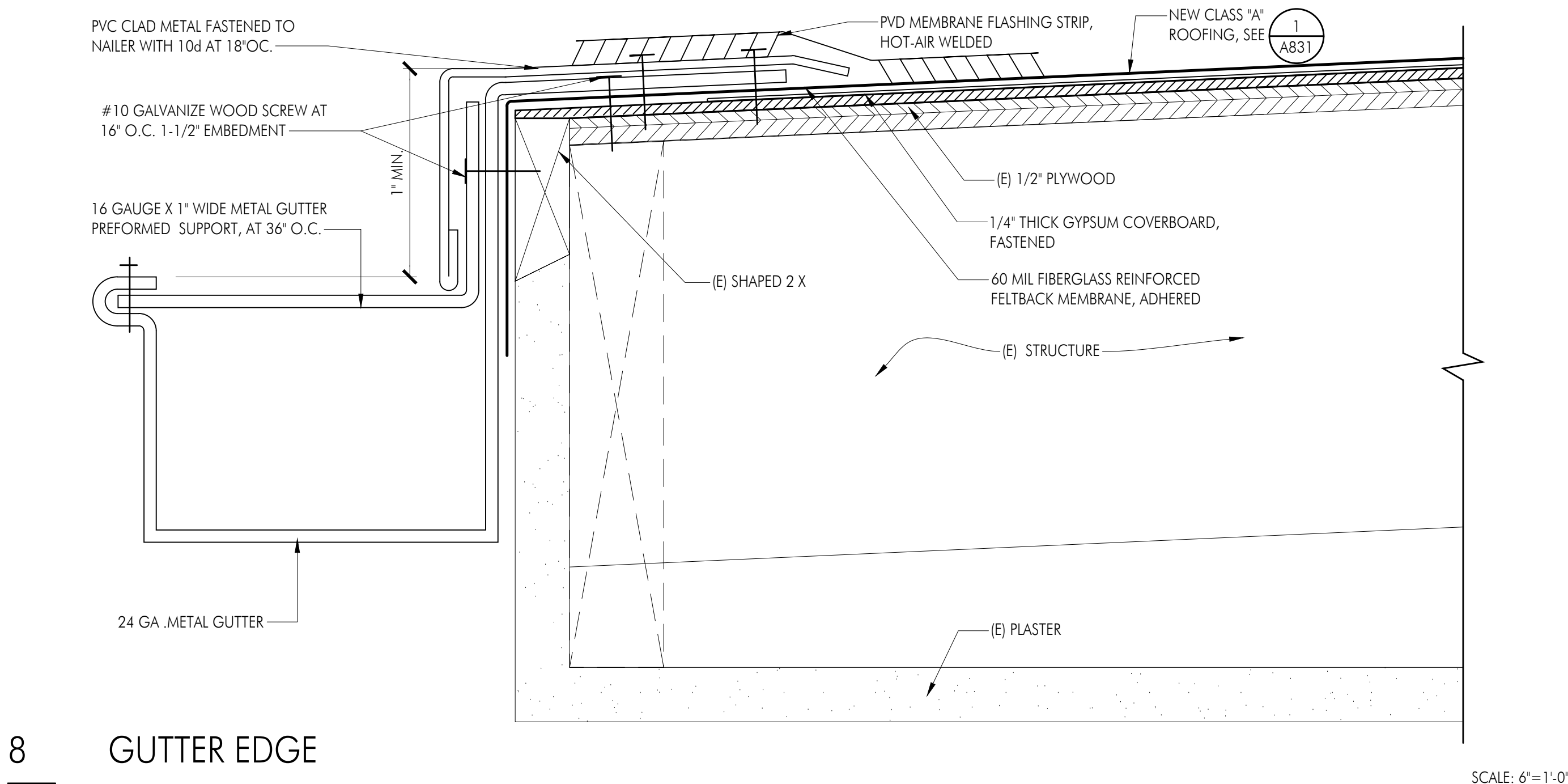
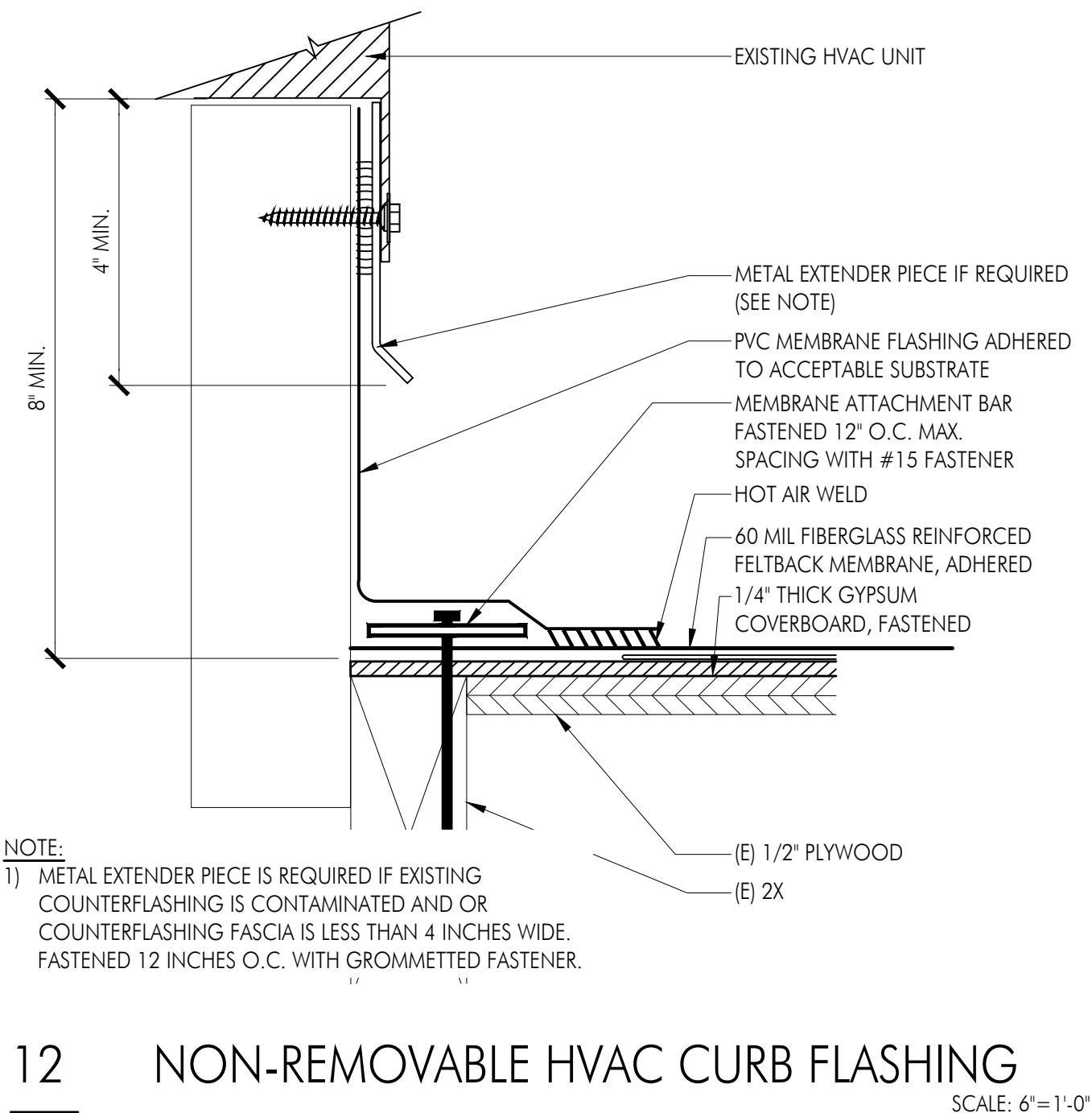
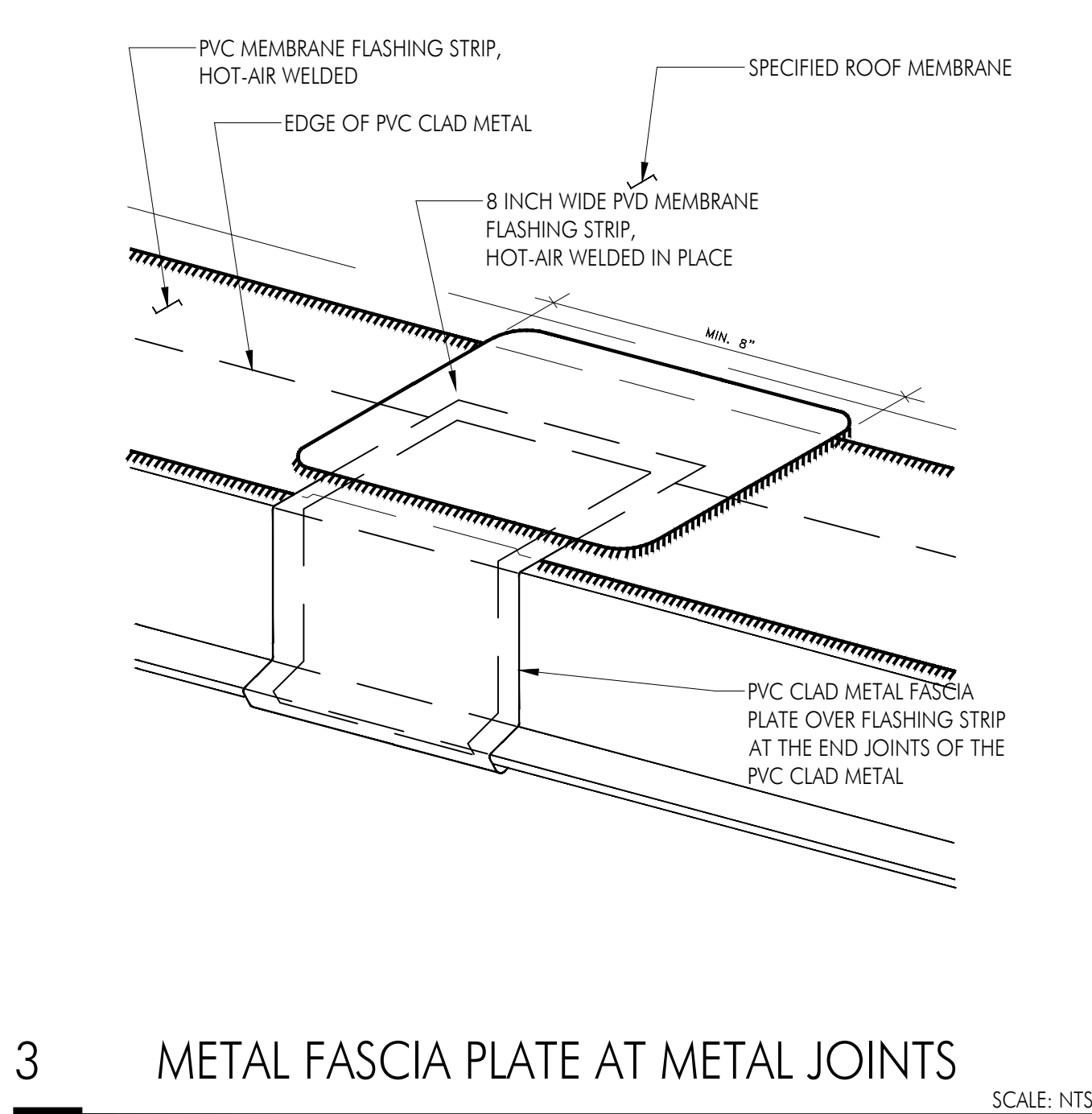
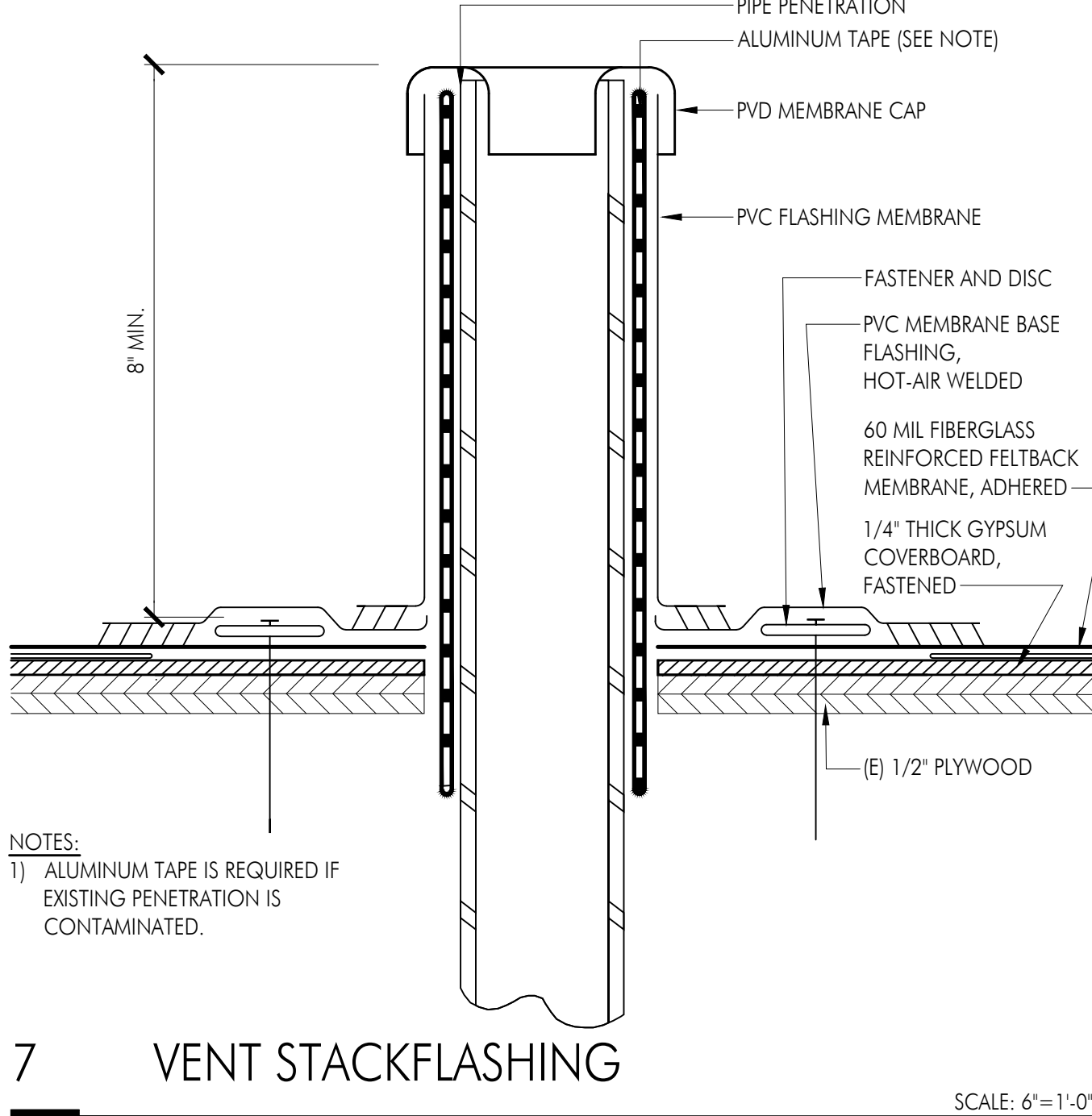
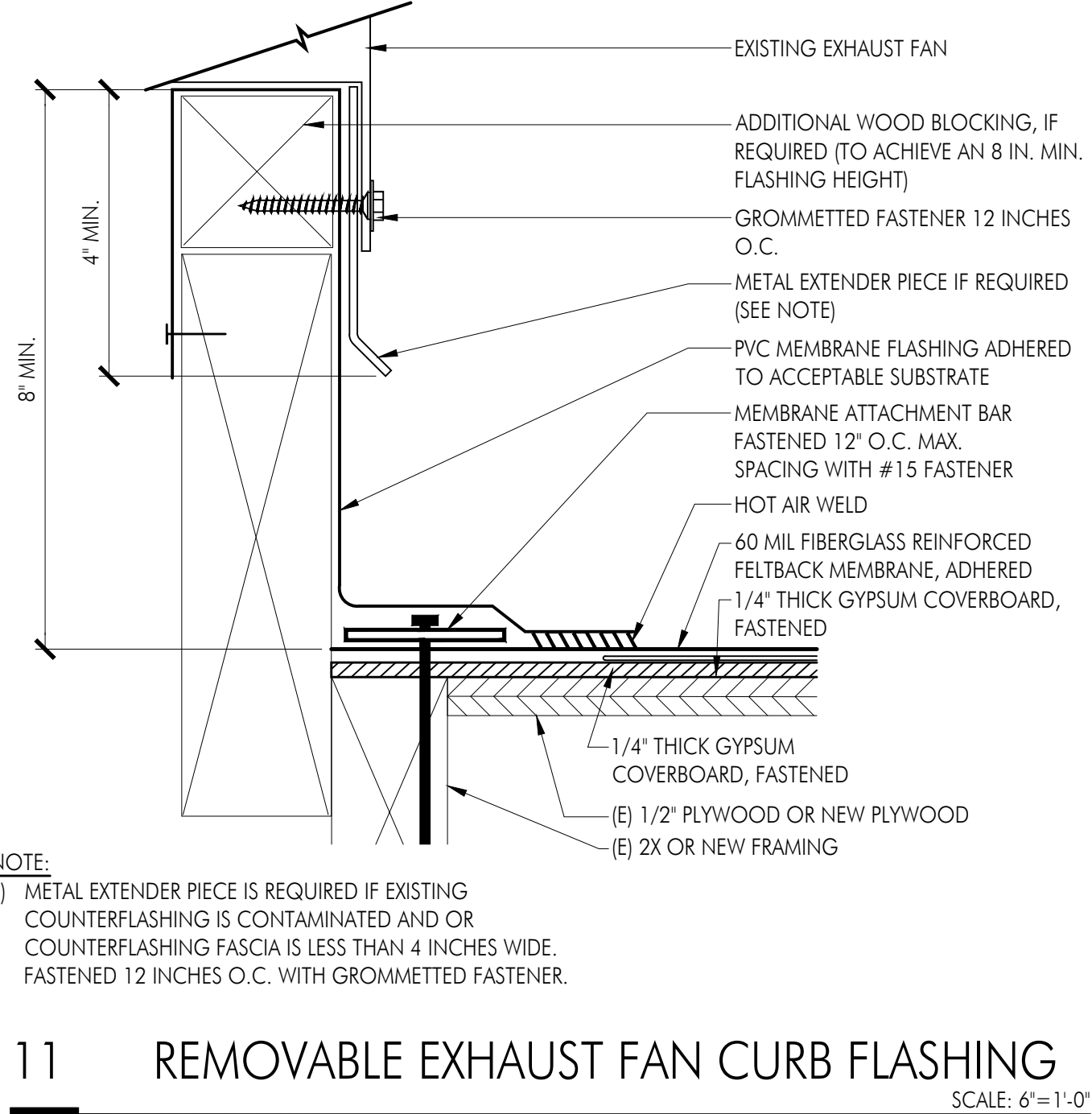
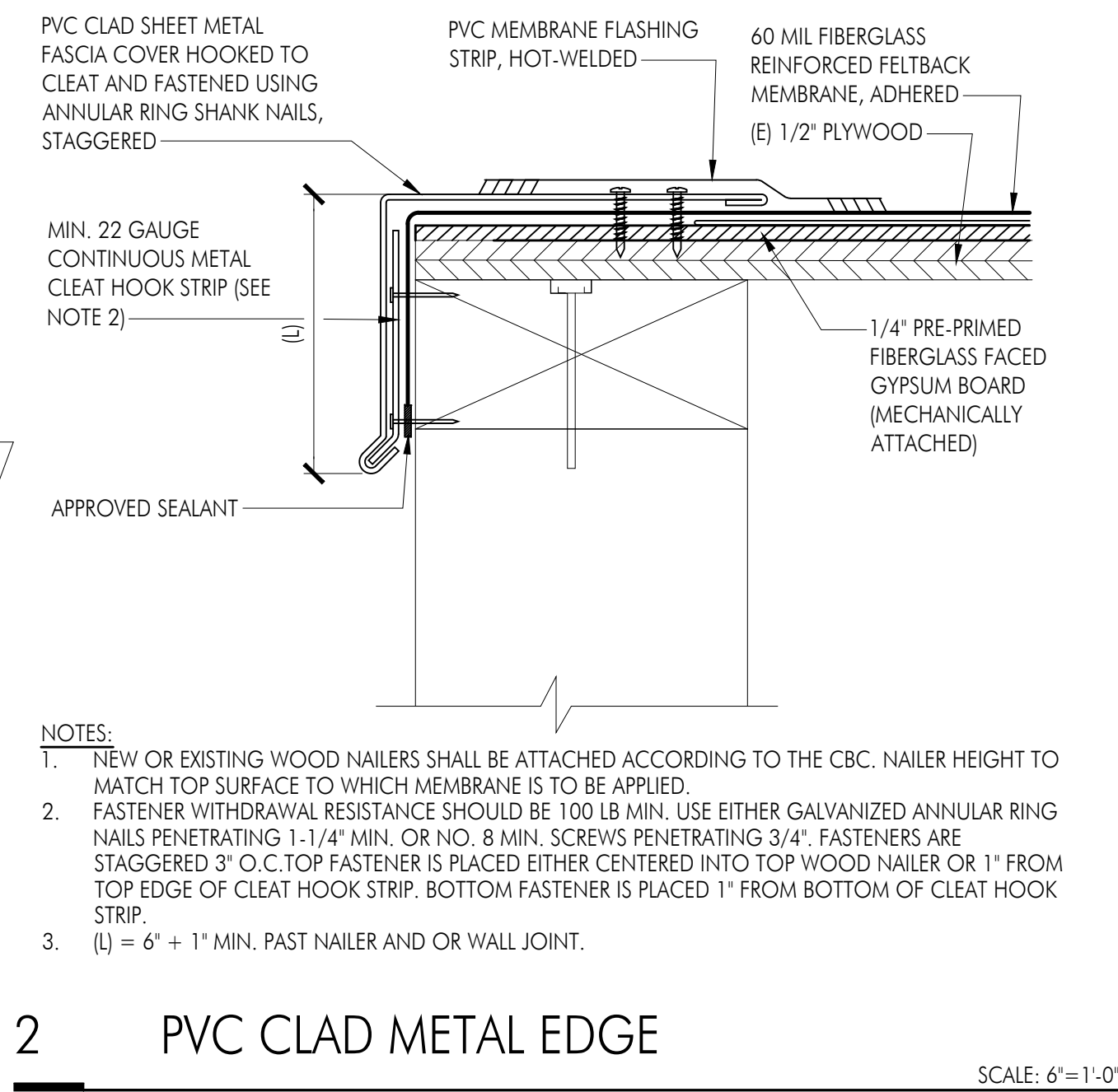
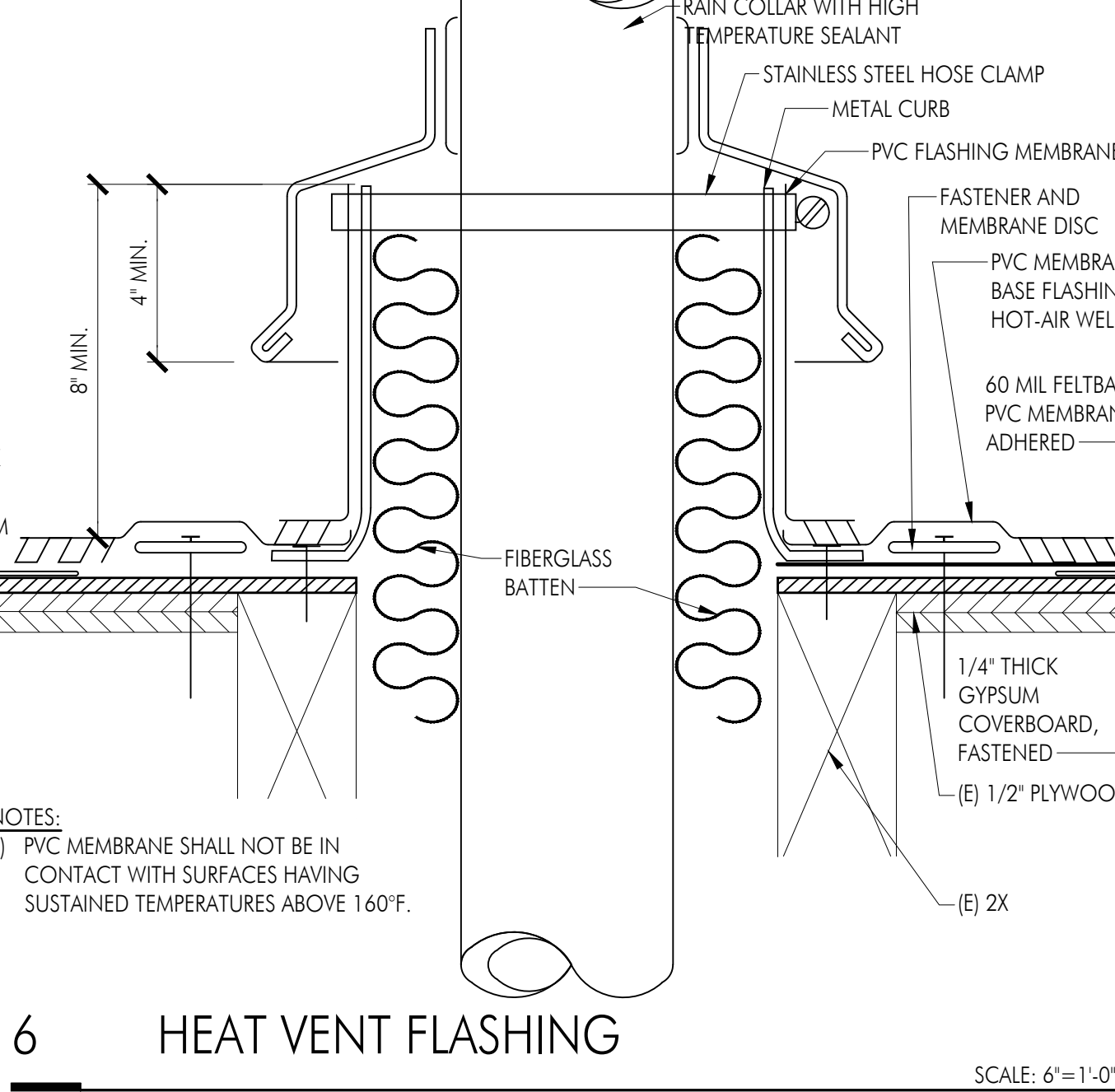
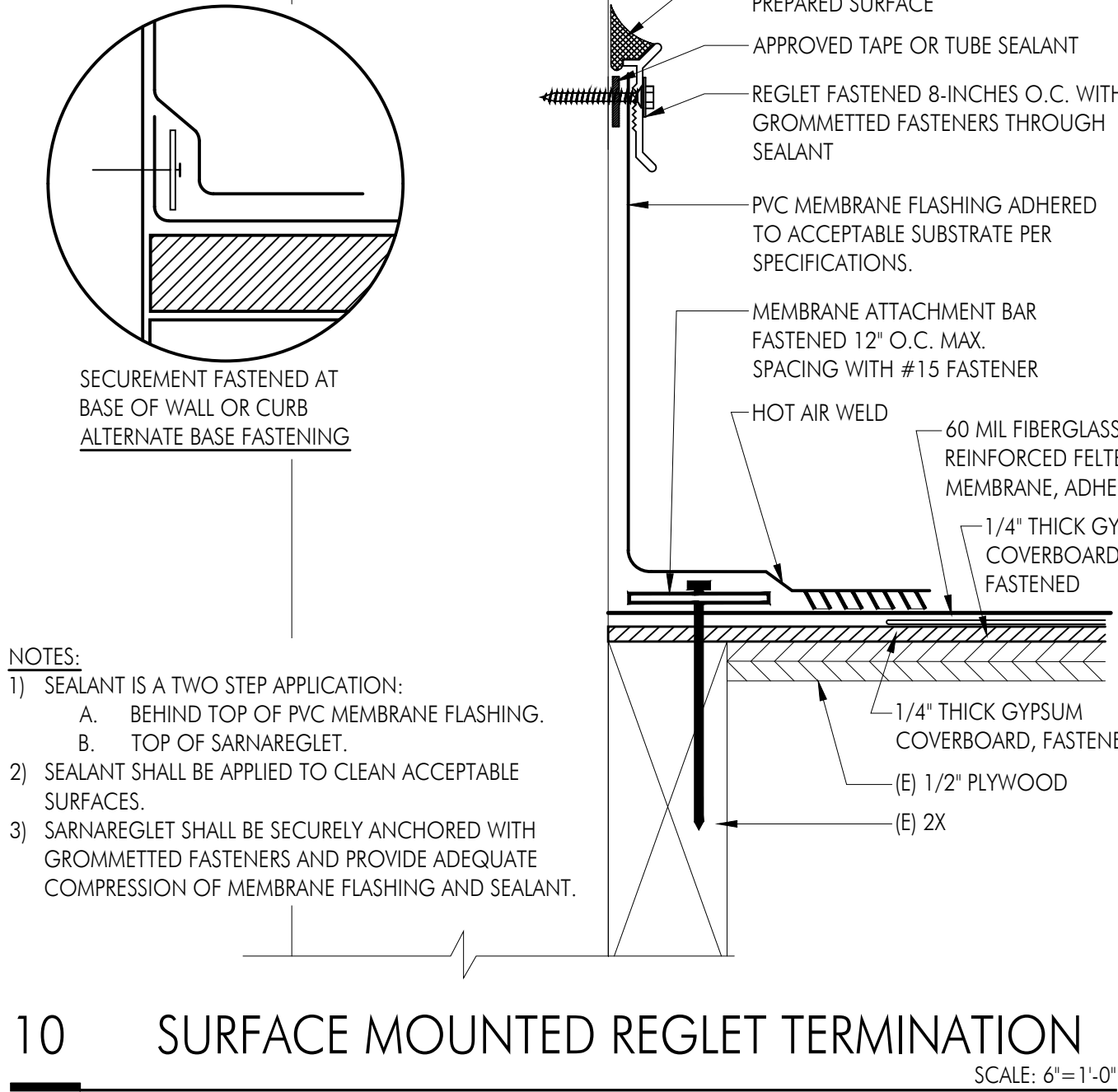
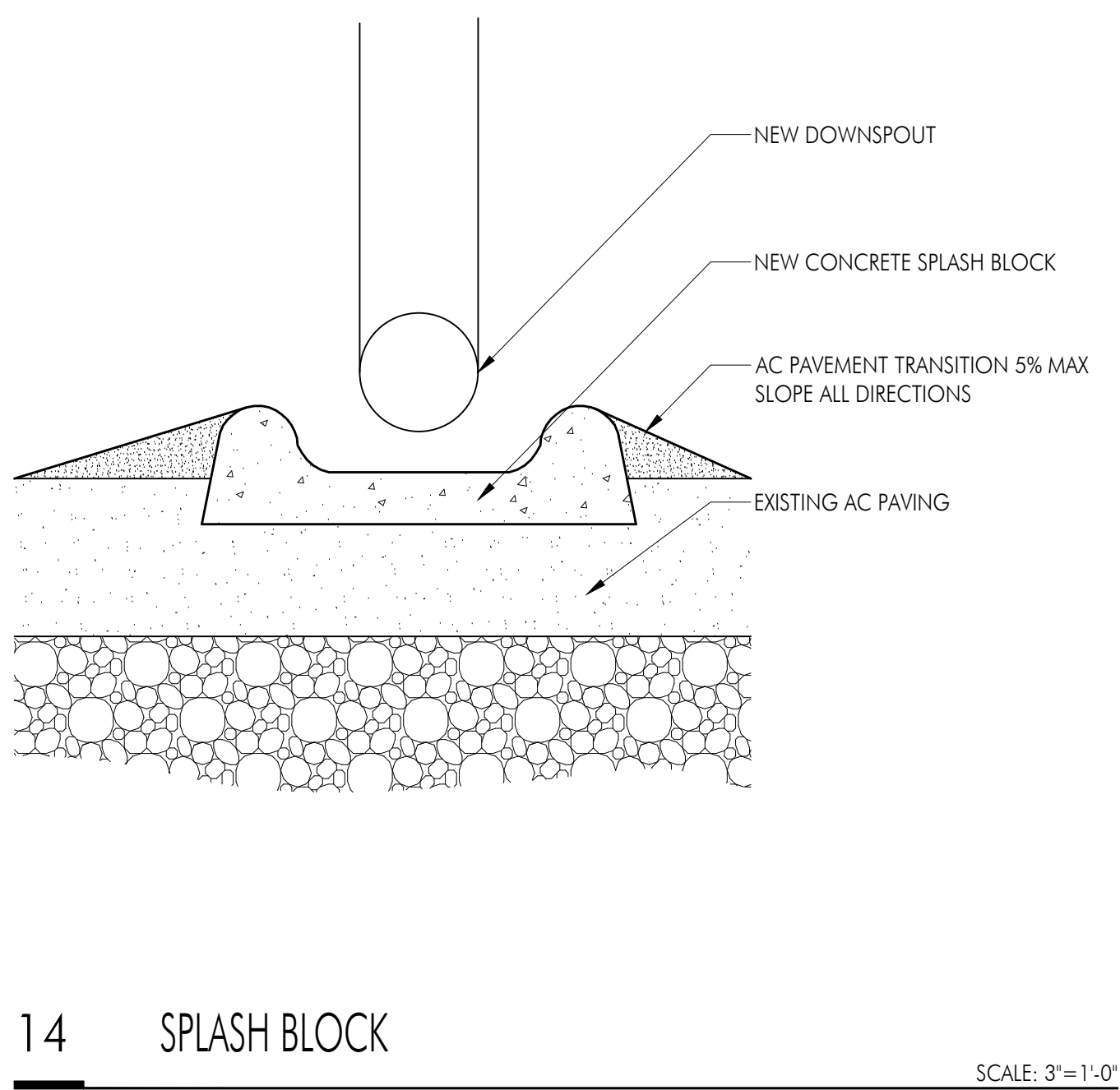
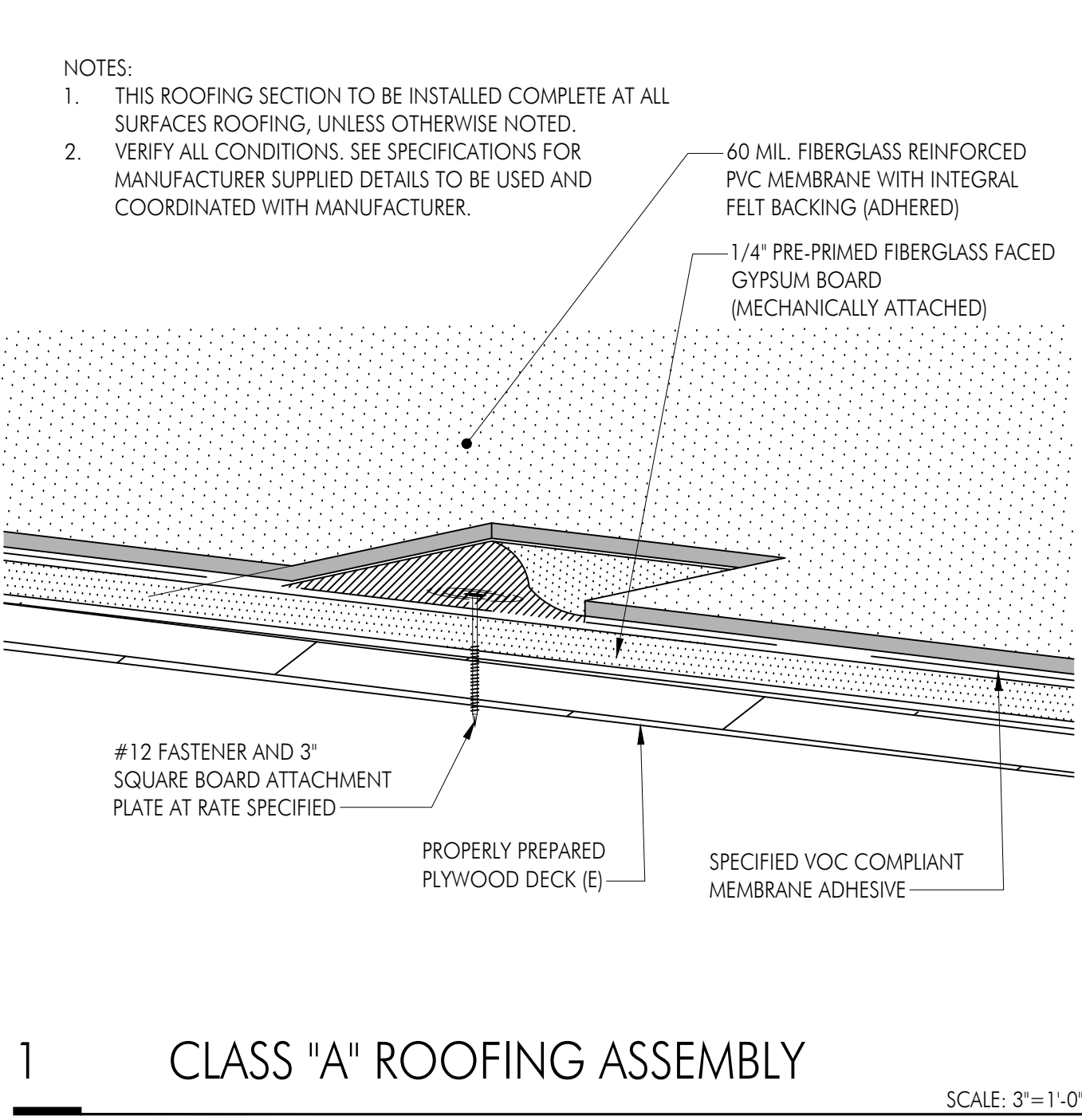
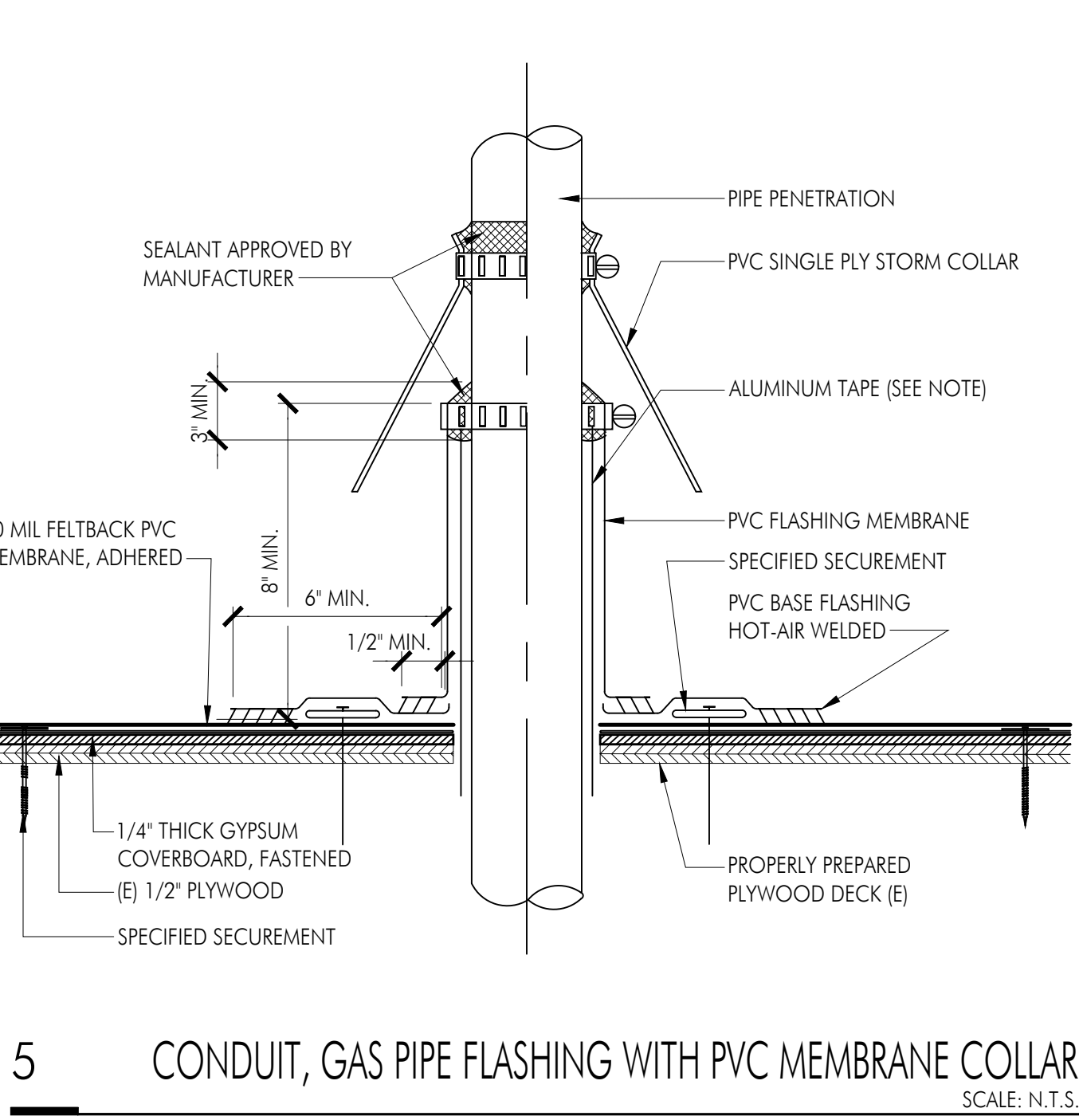
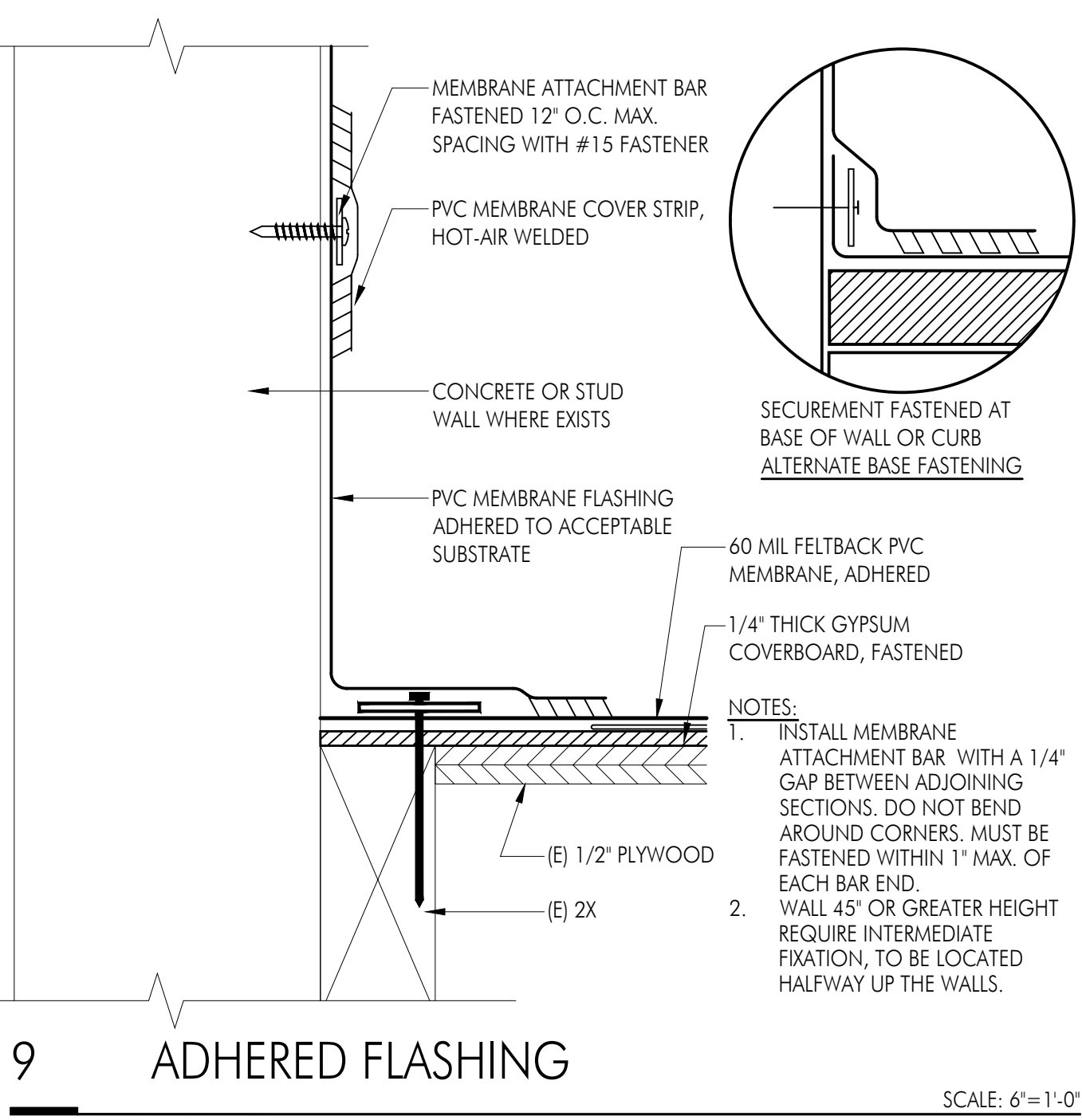
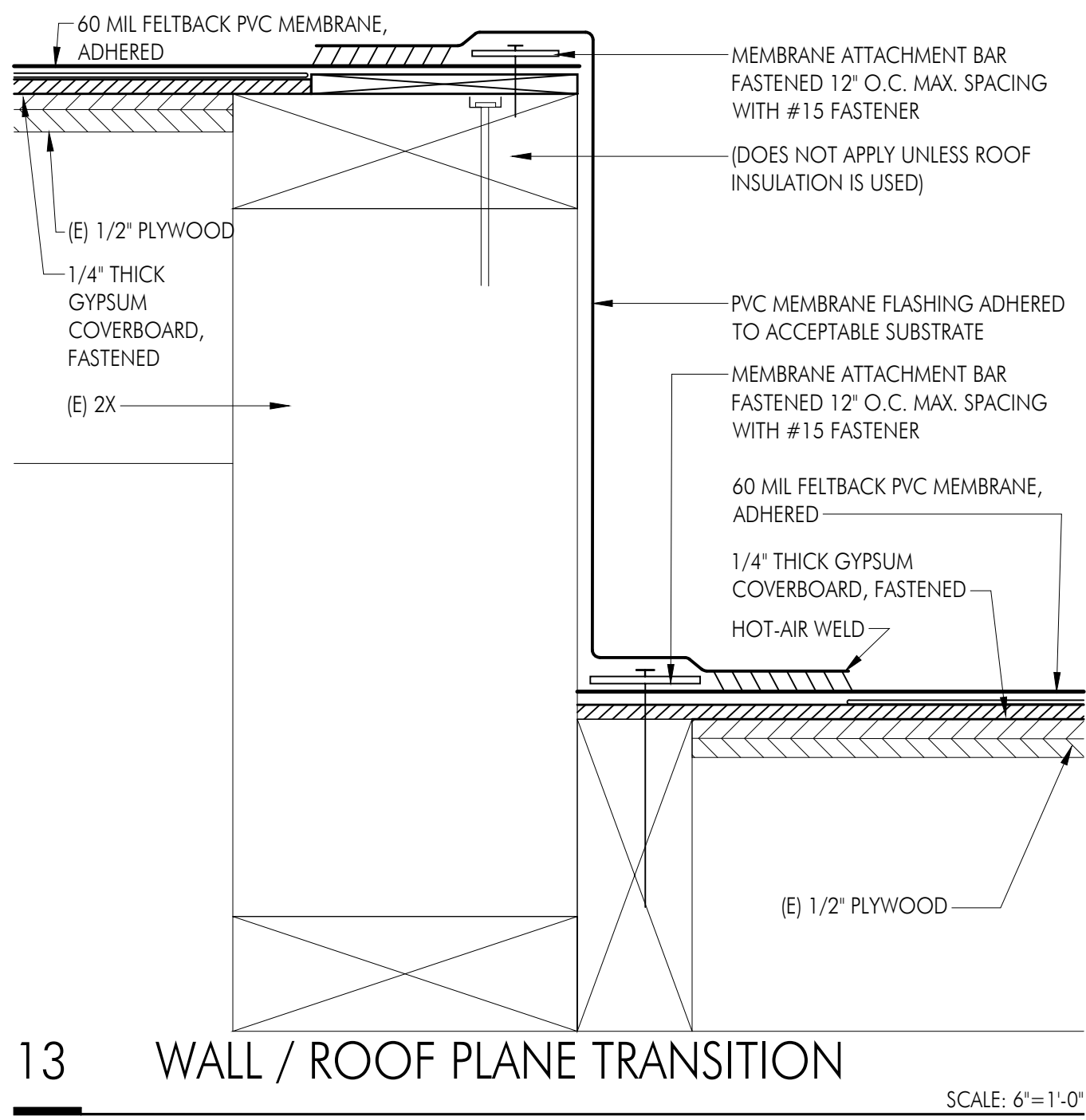
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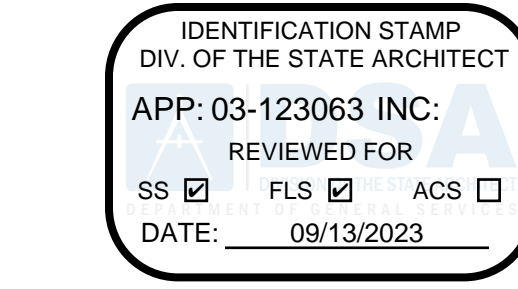
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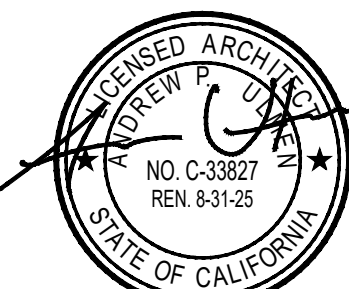
Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

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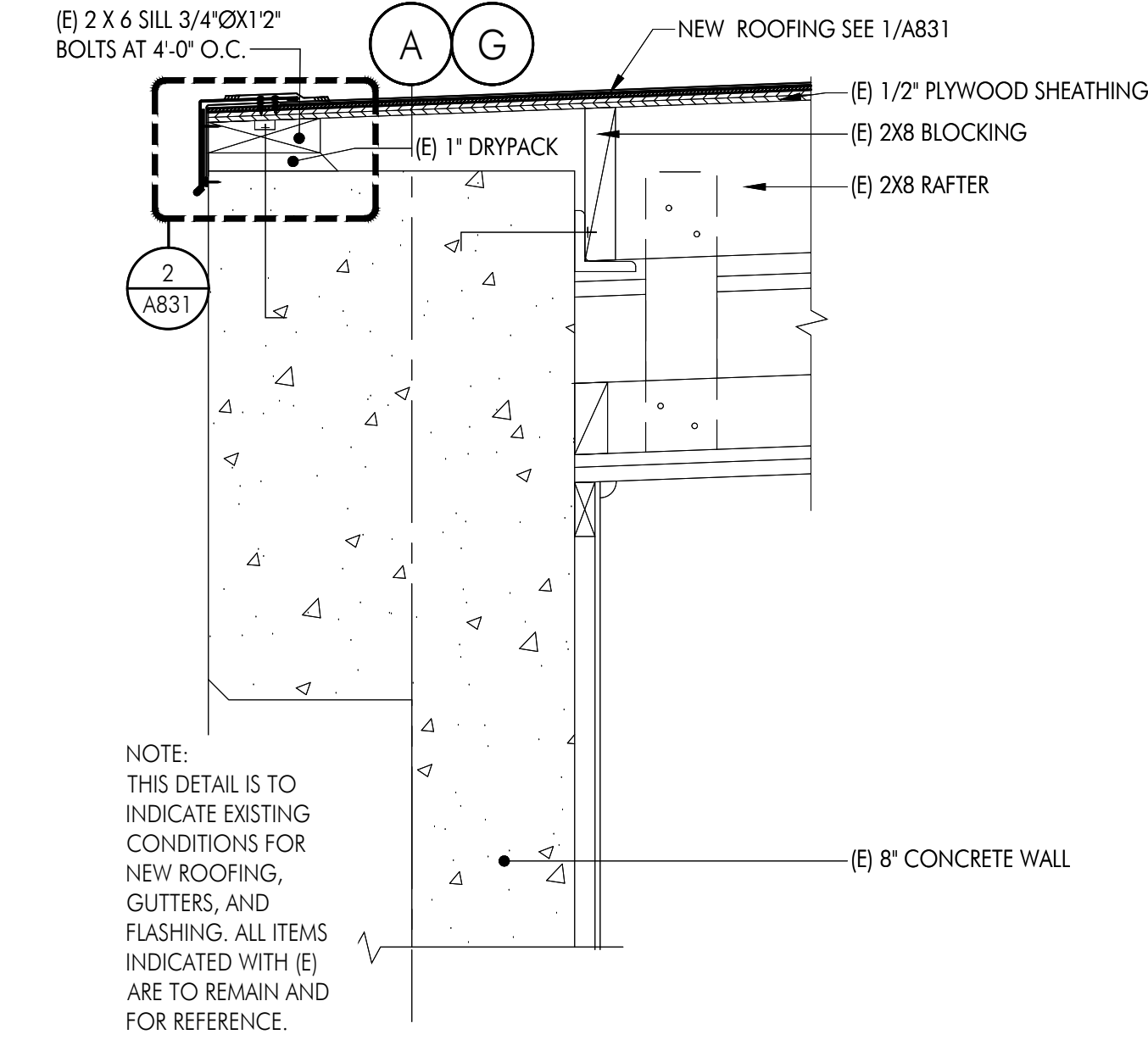
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Roof Coordination

Sheet Number

A831

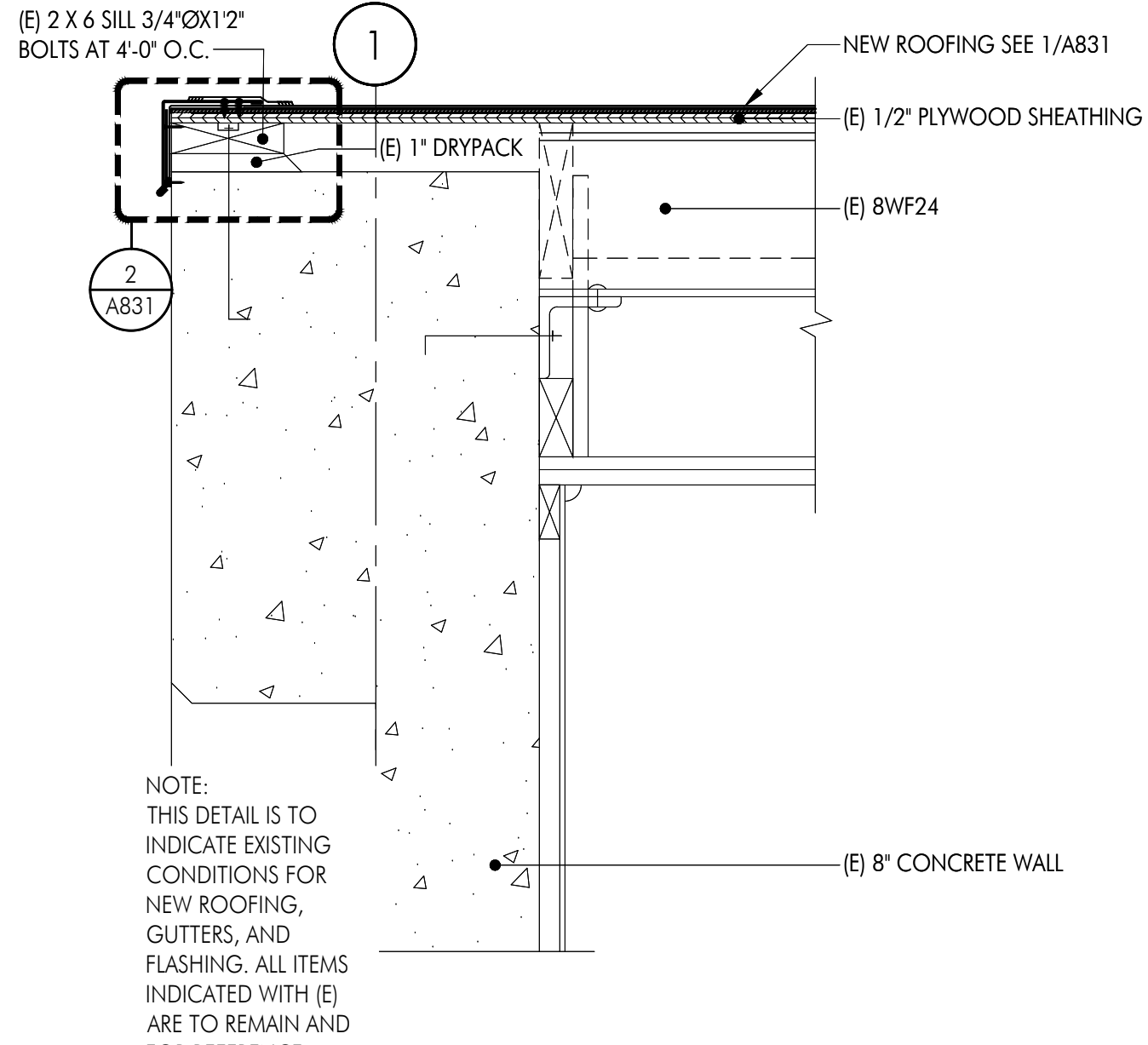


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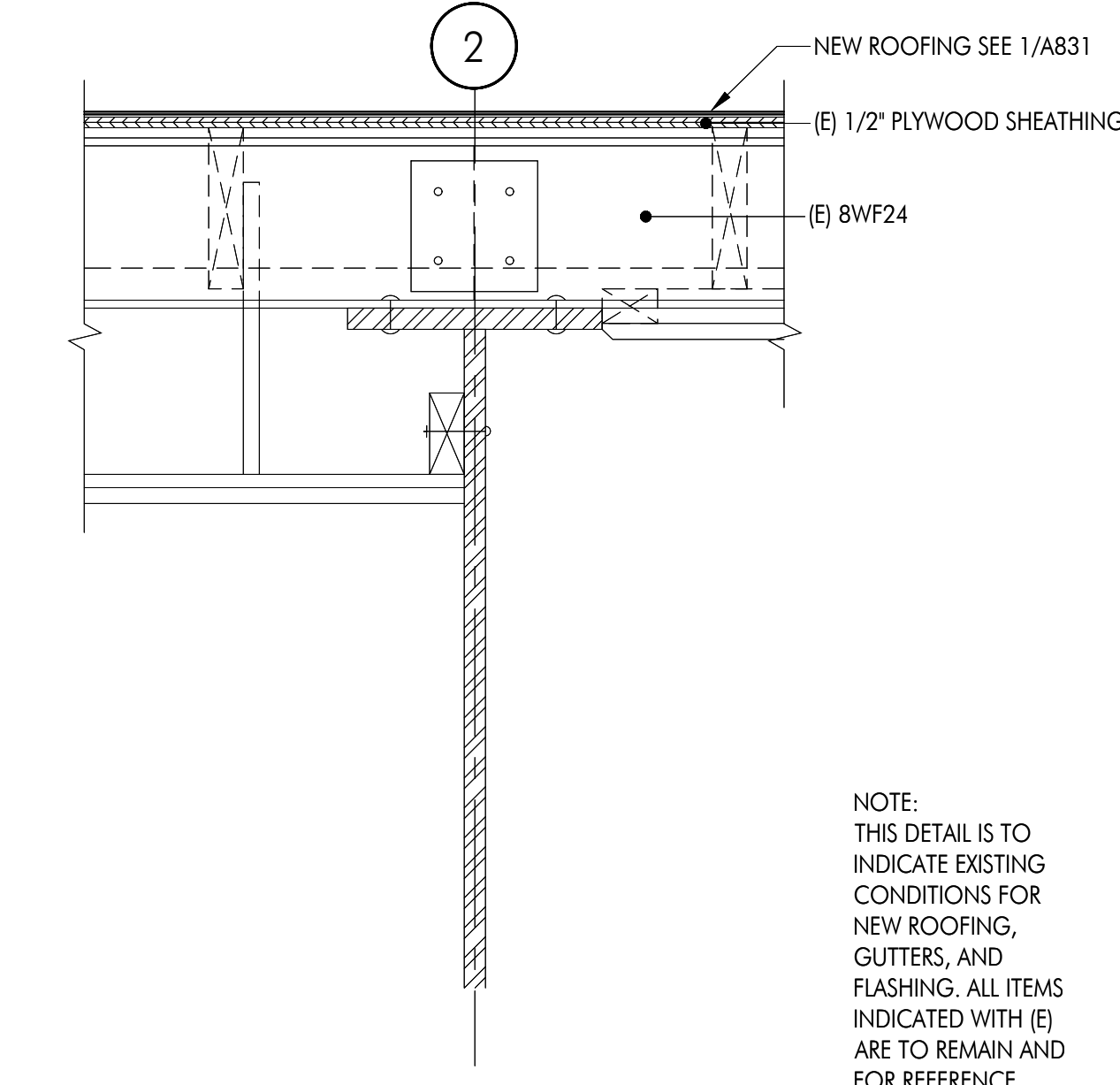
17 SIDE WALL DETAIL

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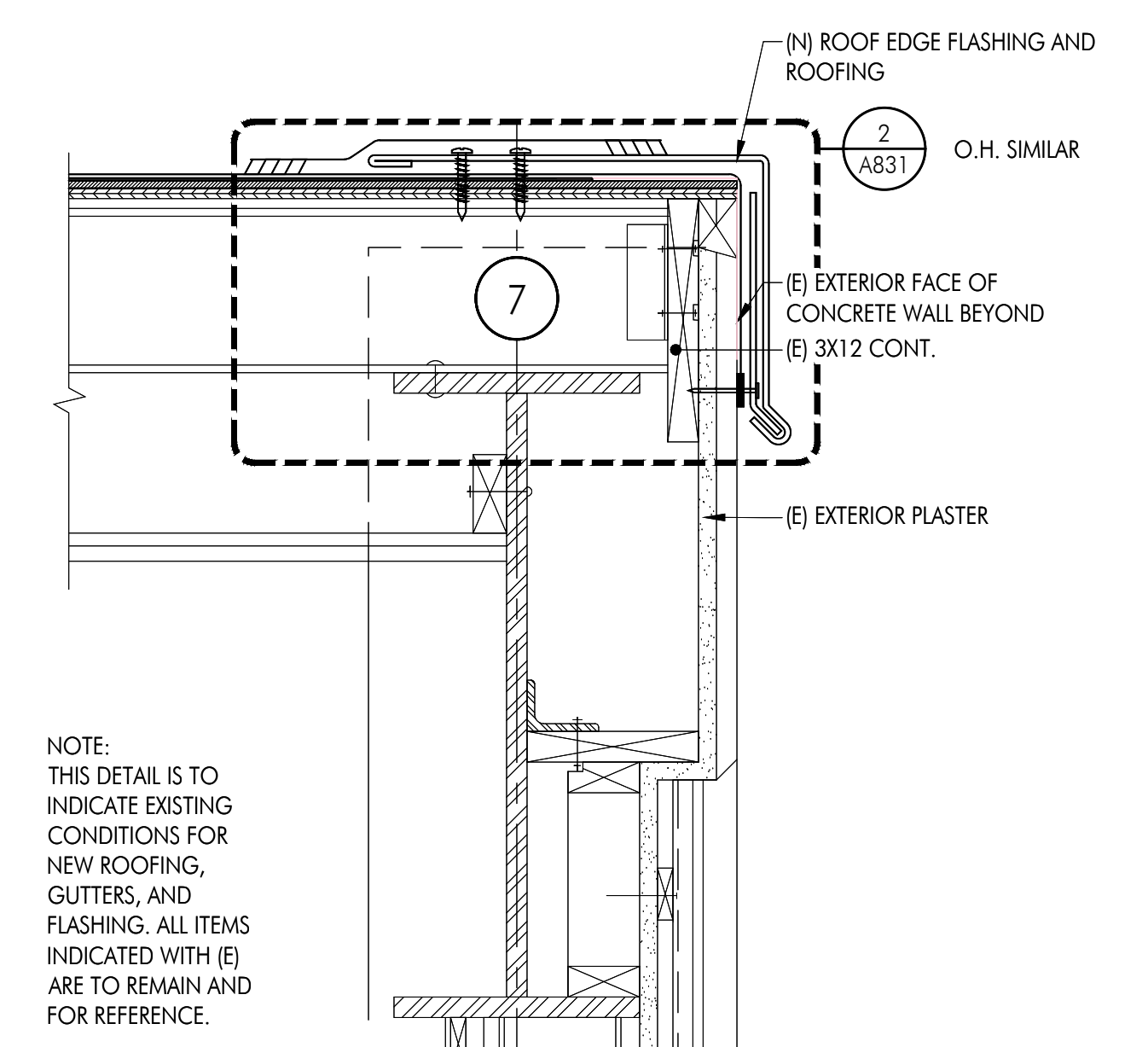
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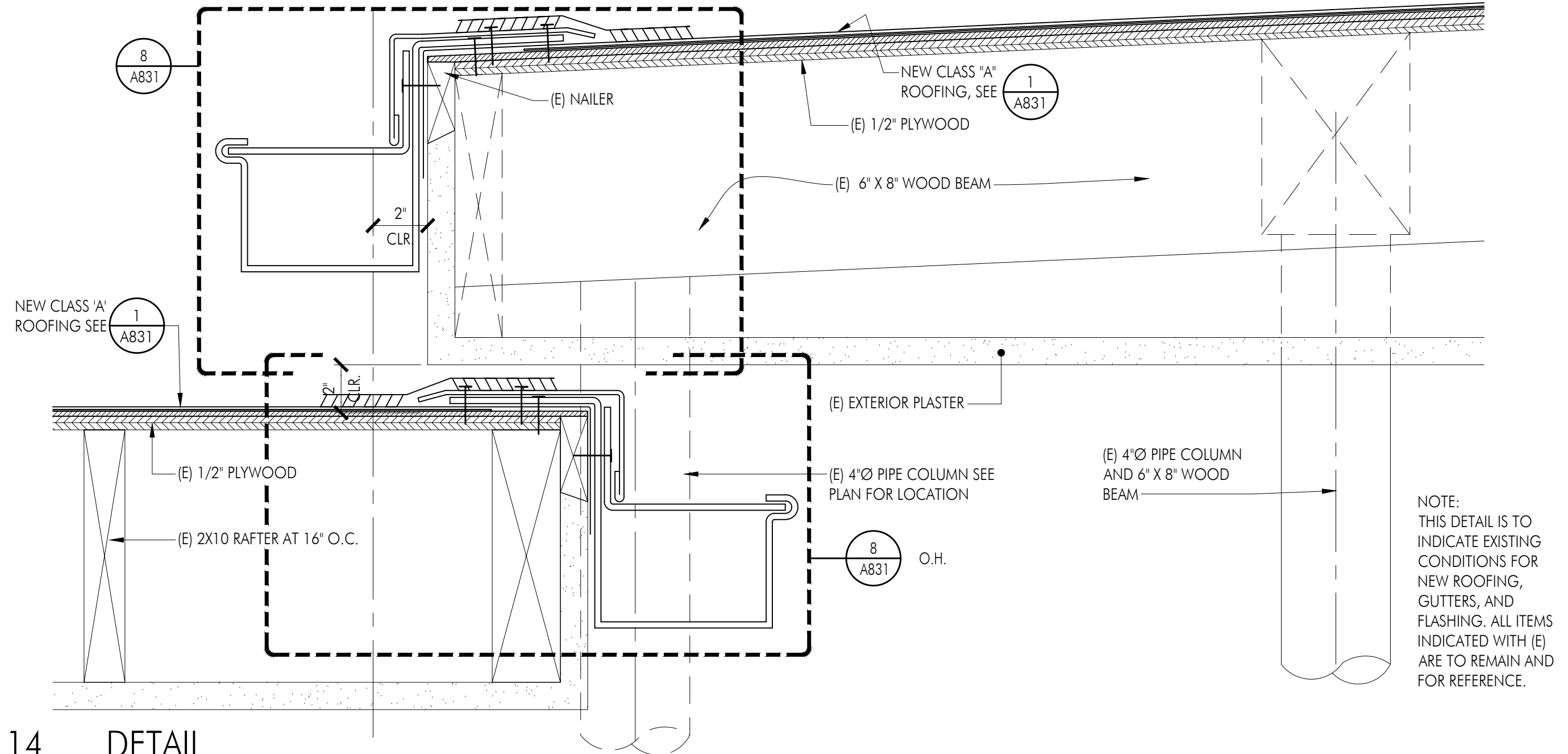
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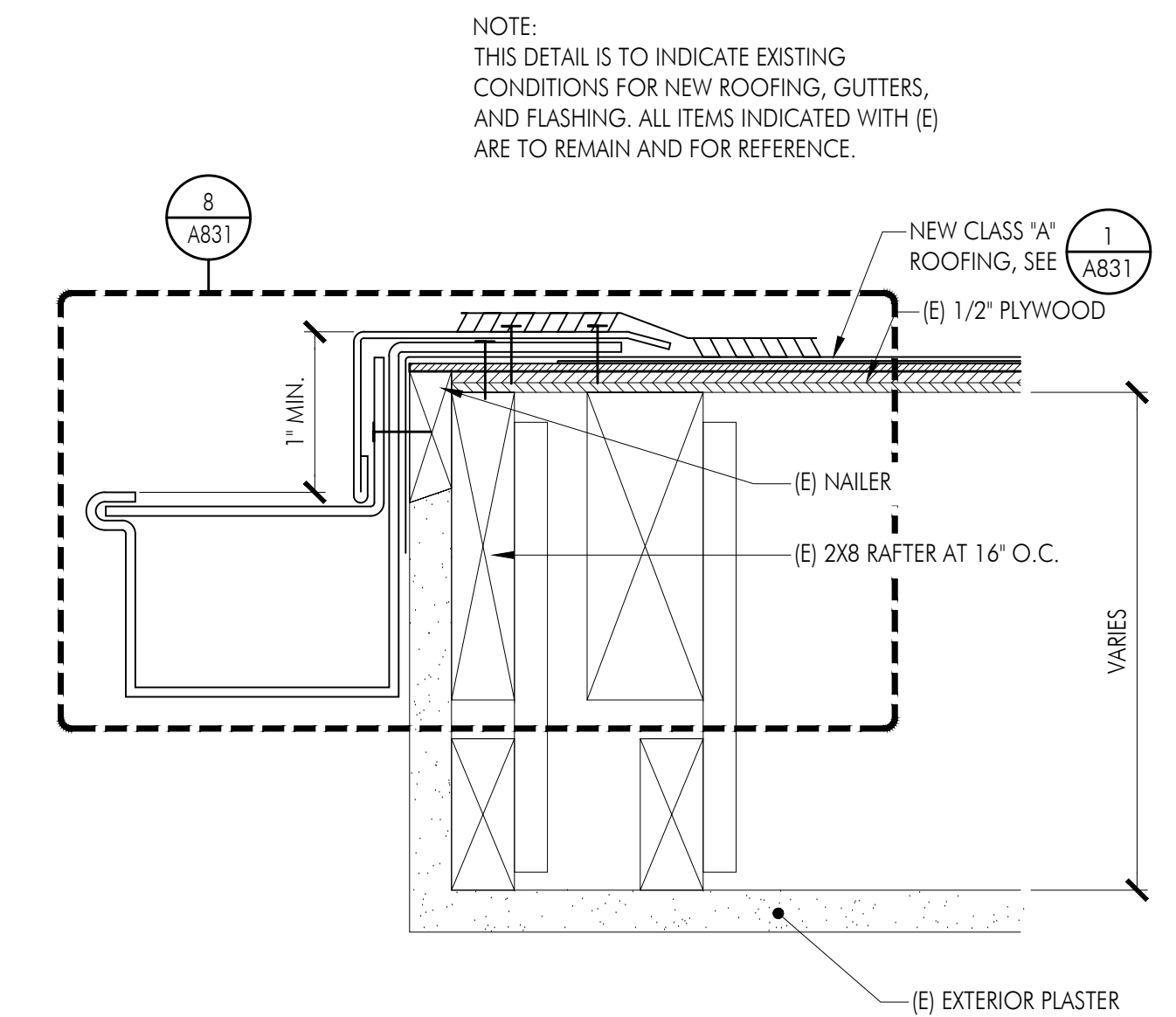
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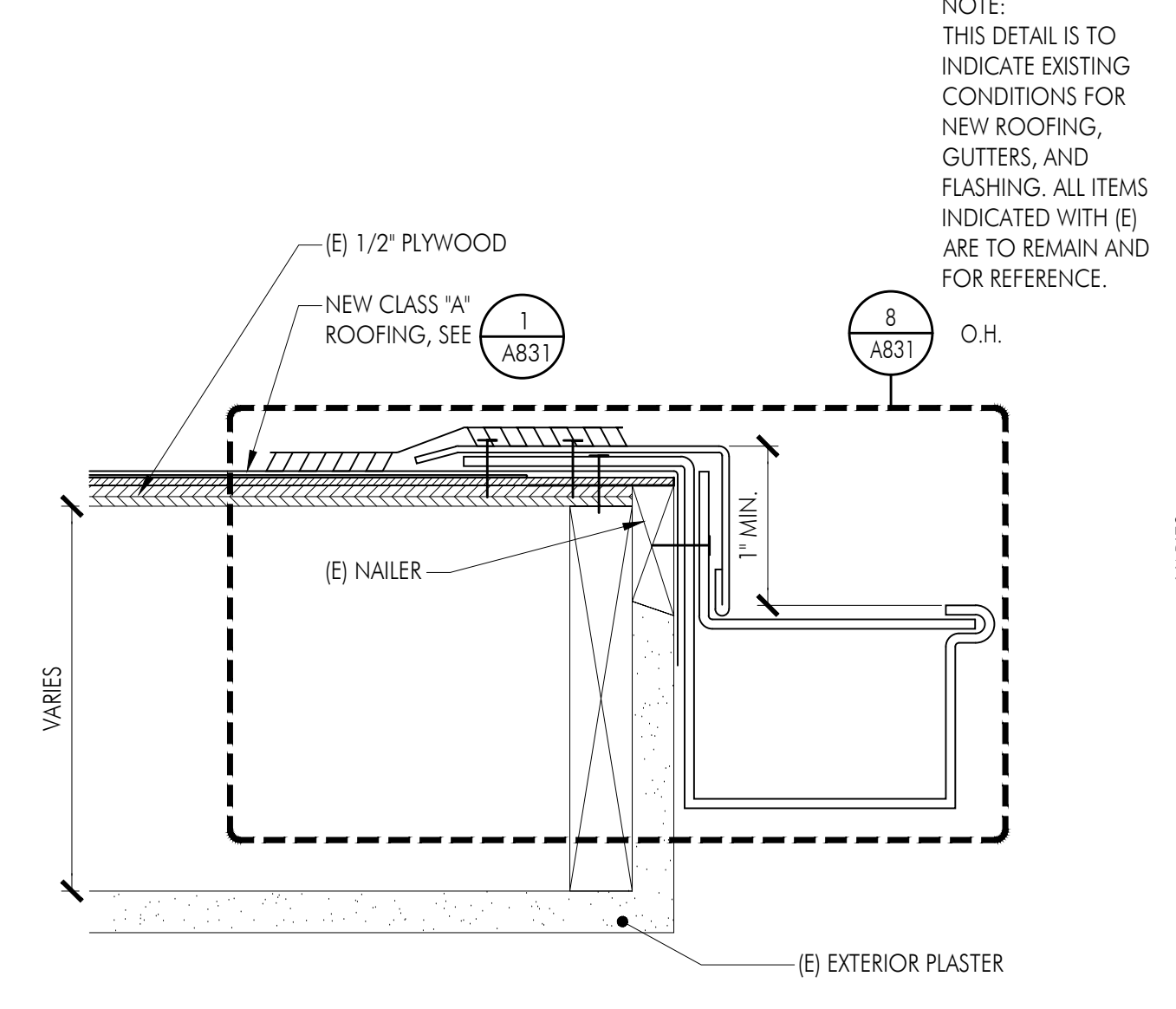
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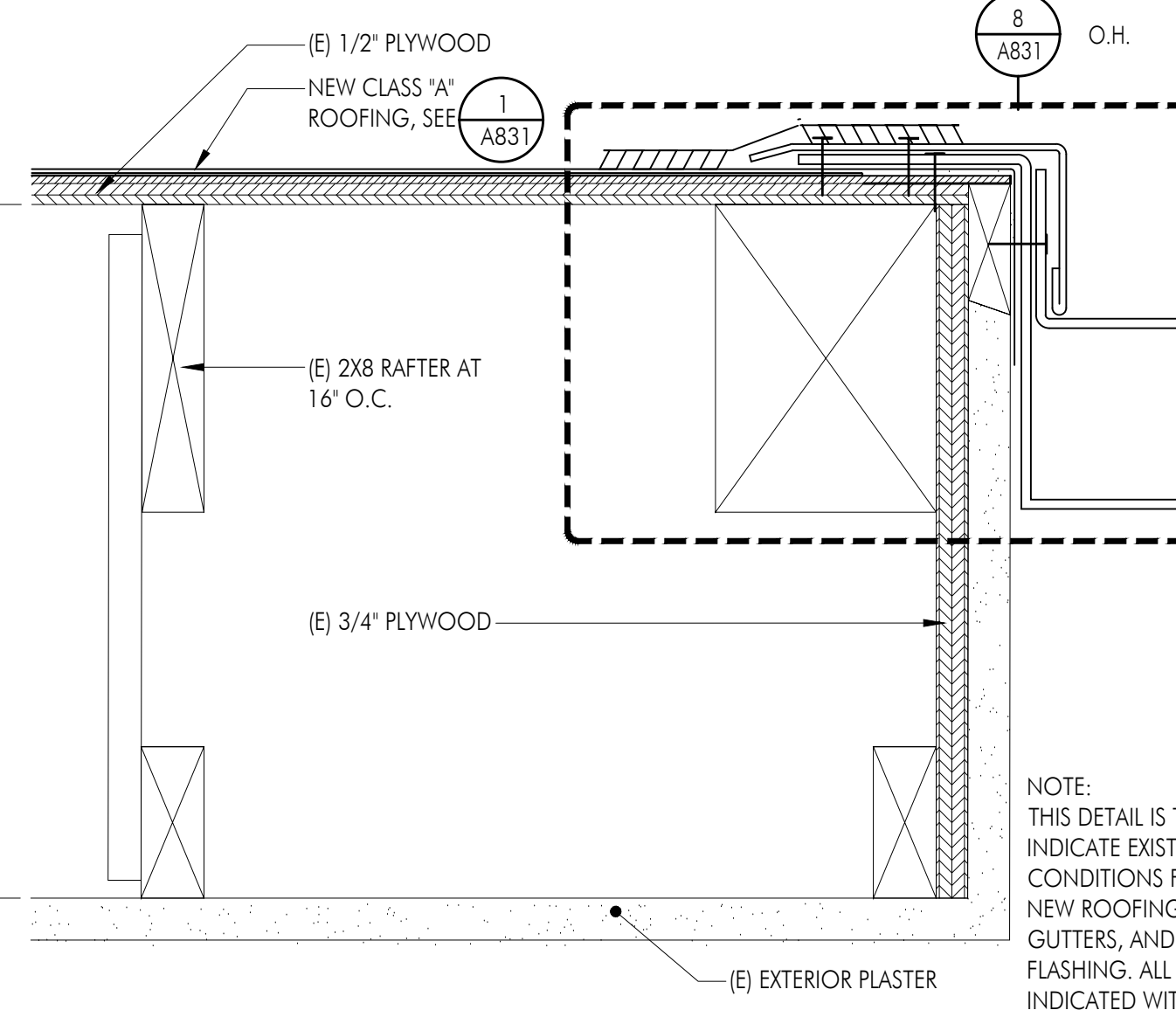
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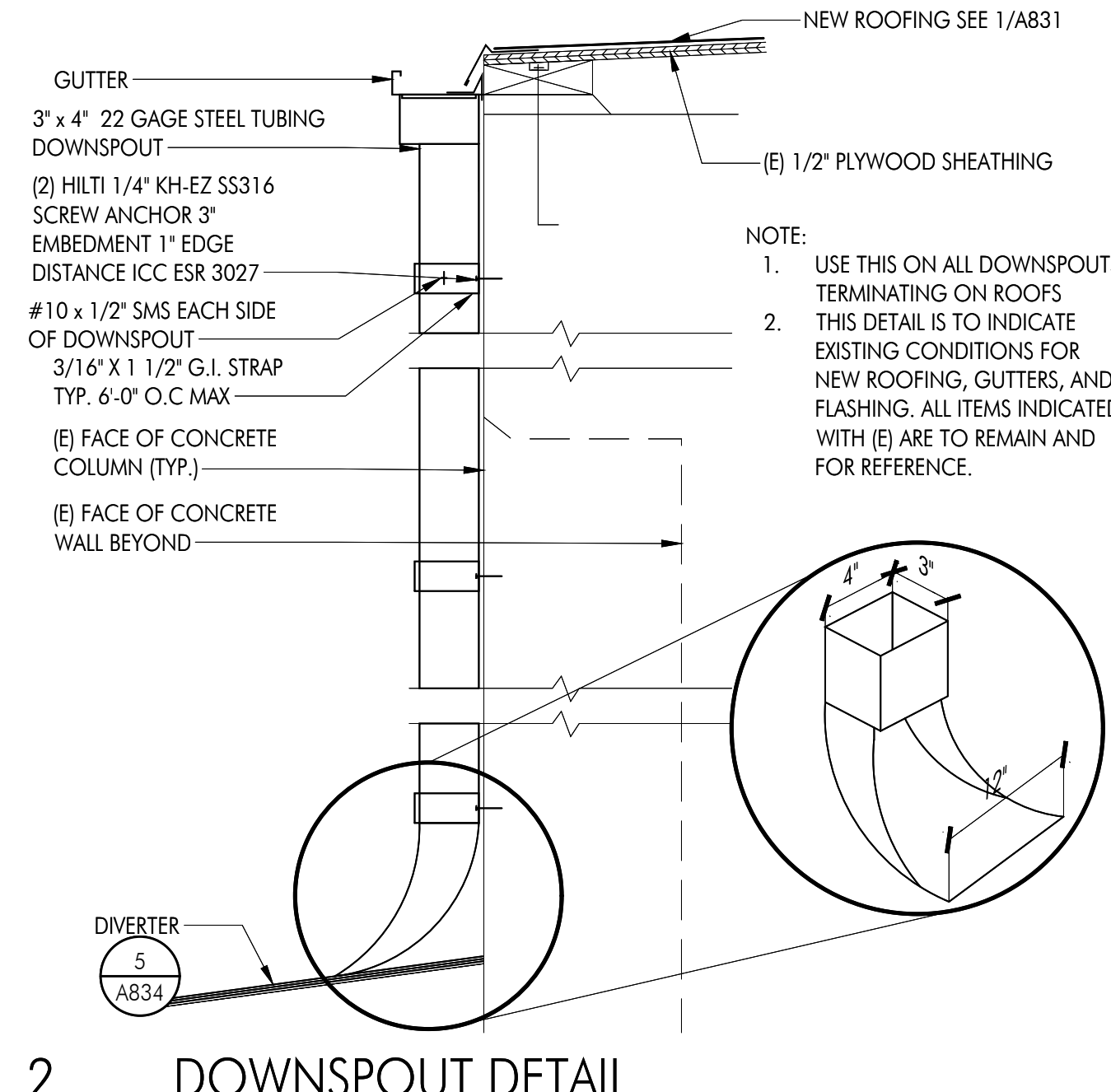
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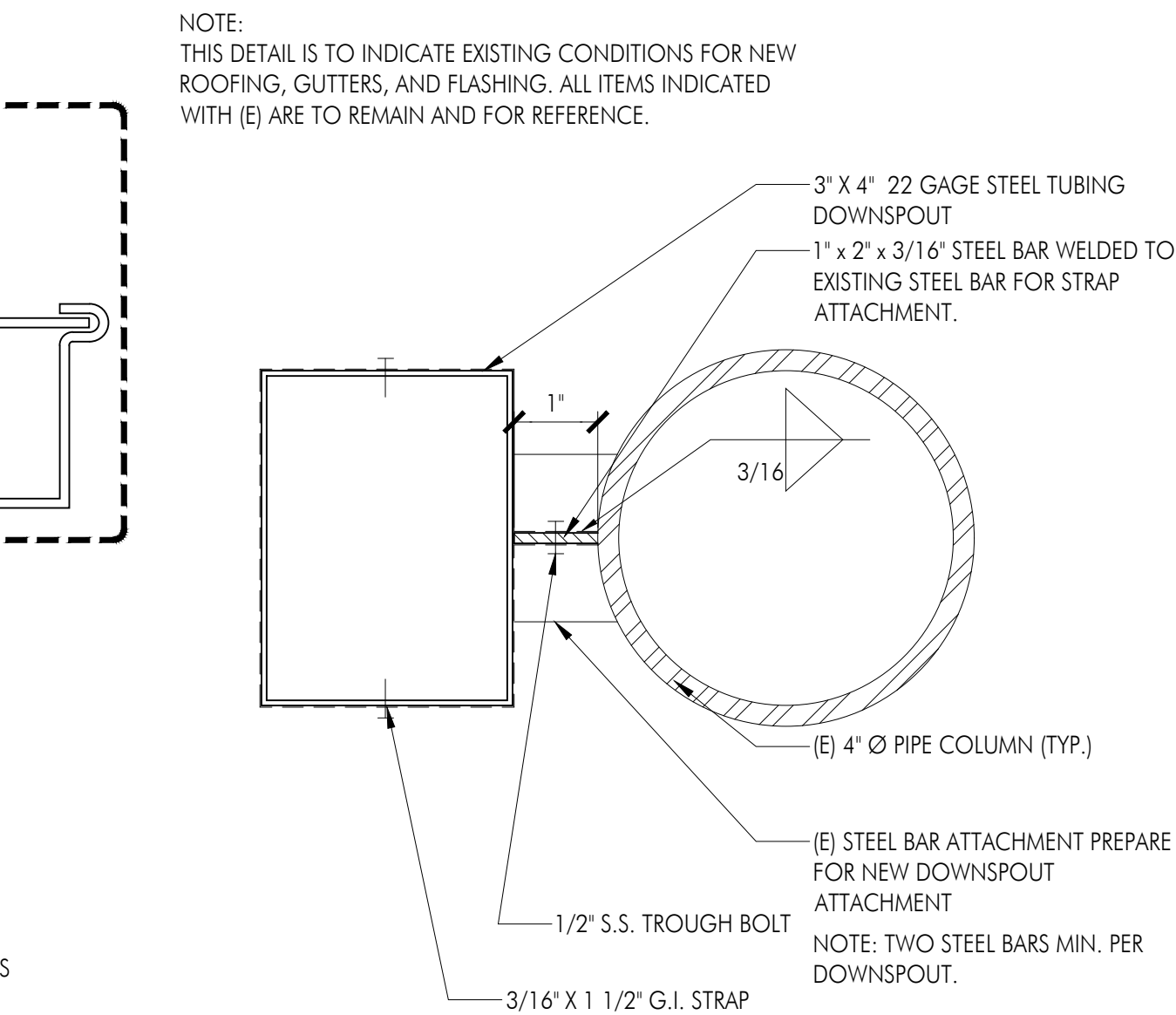
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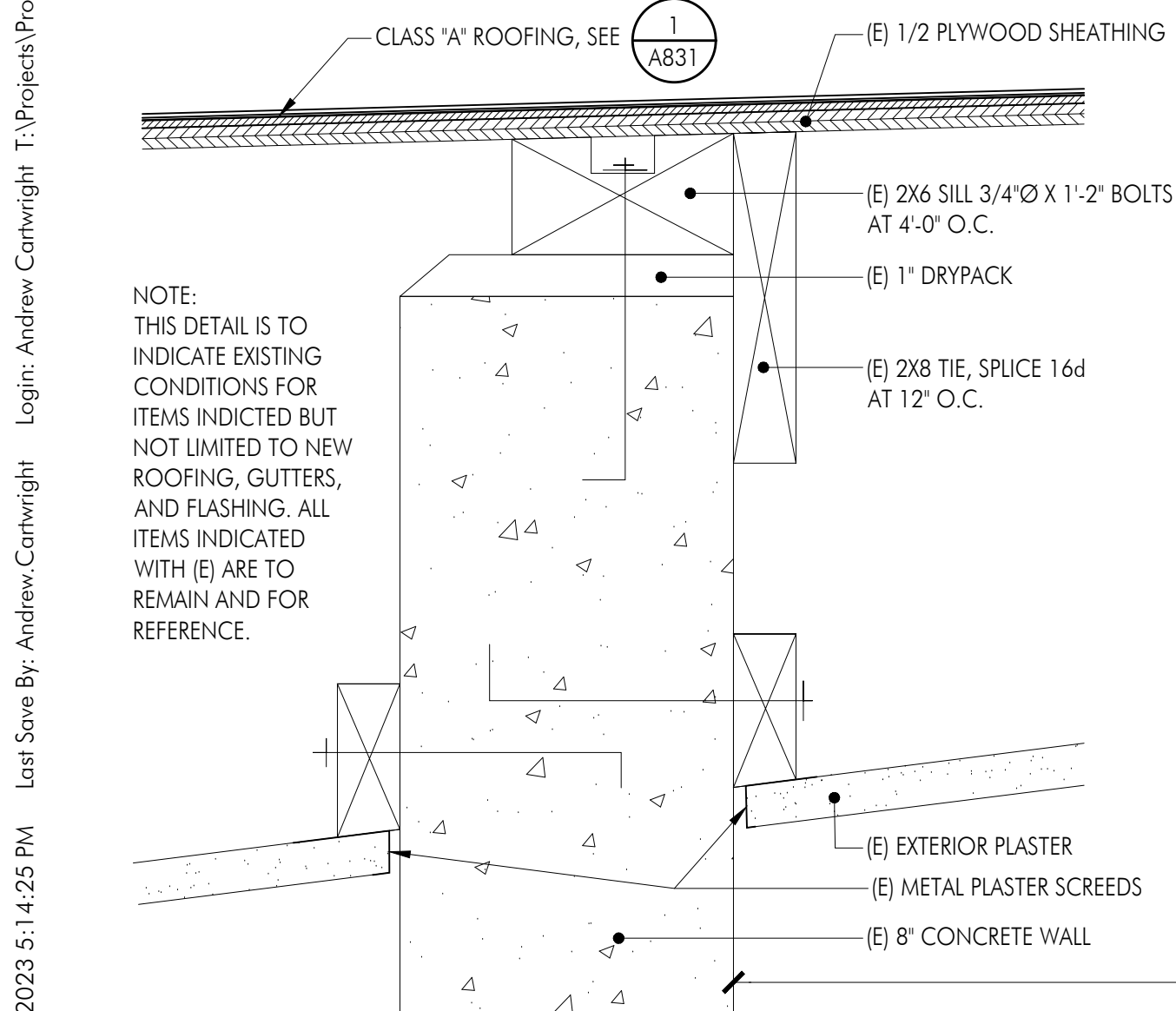
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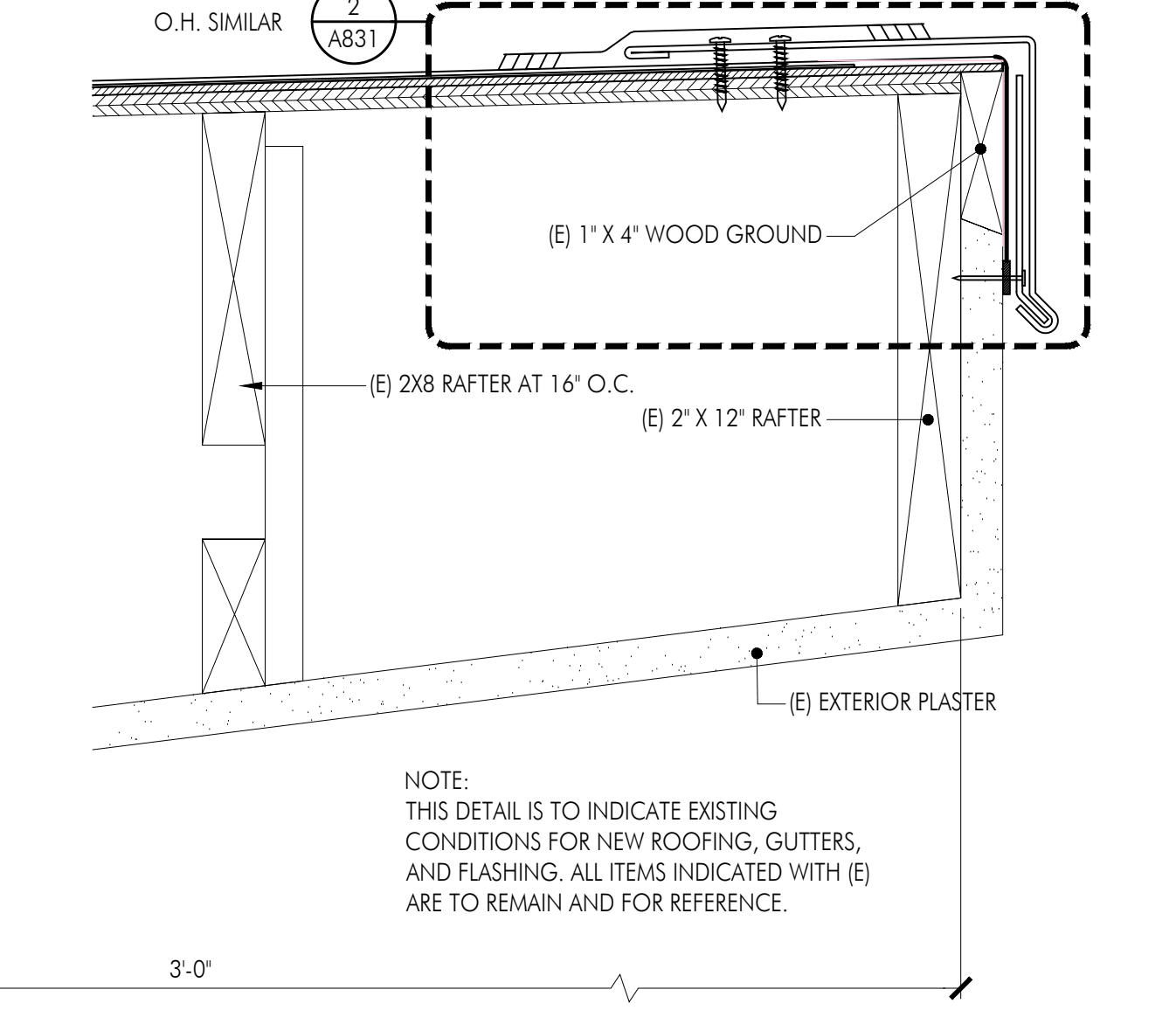
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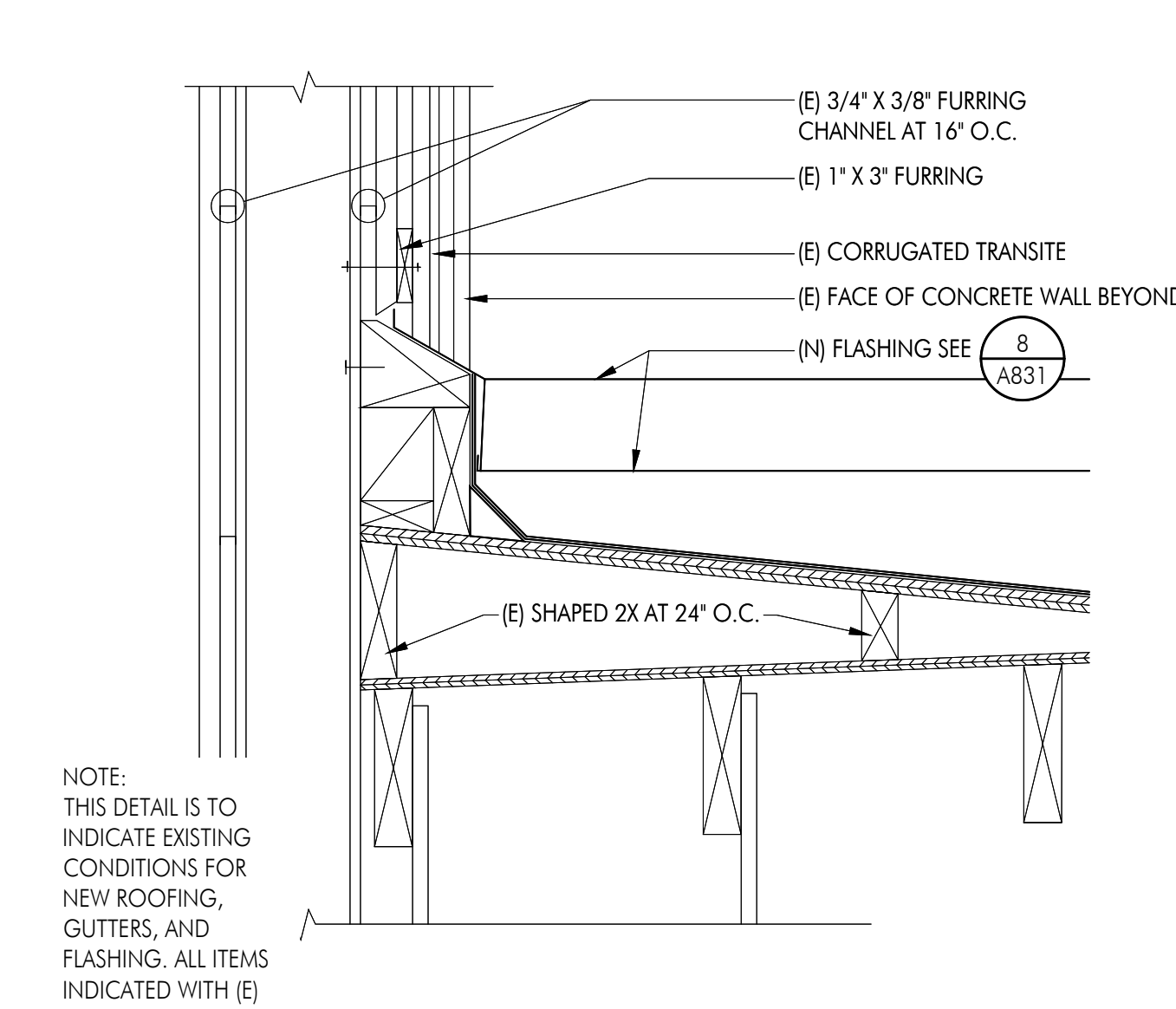
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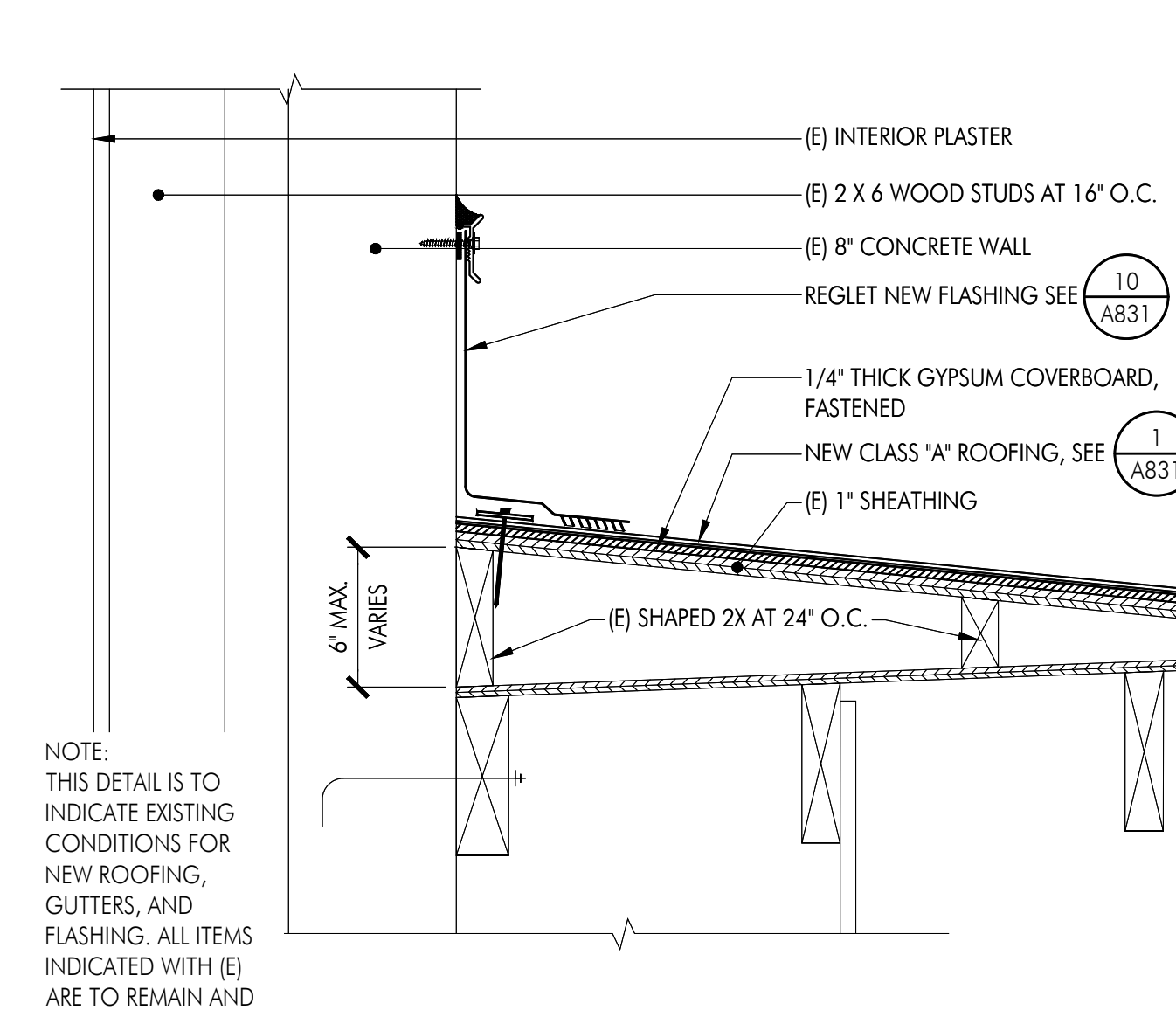
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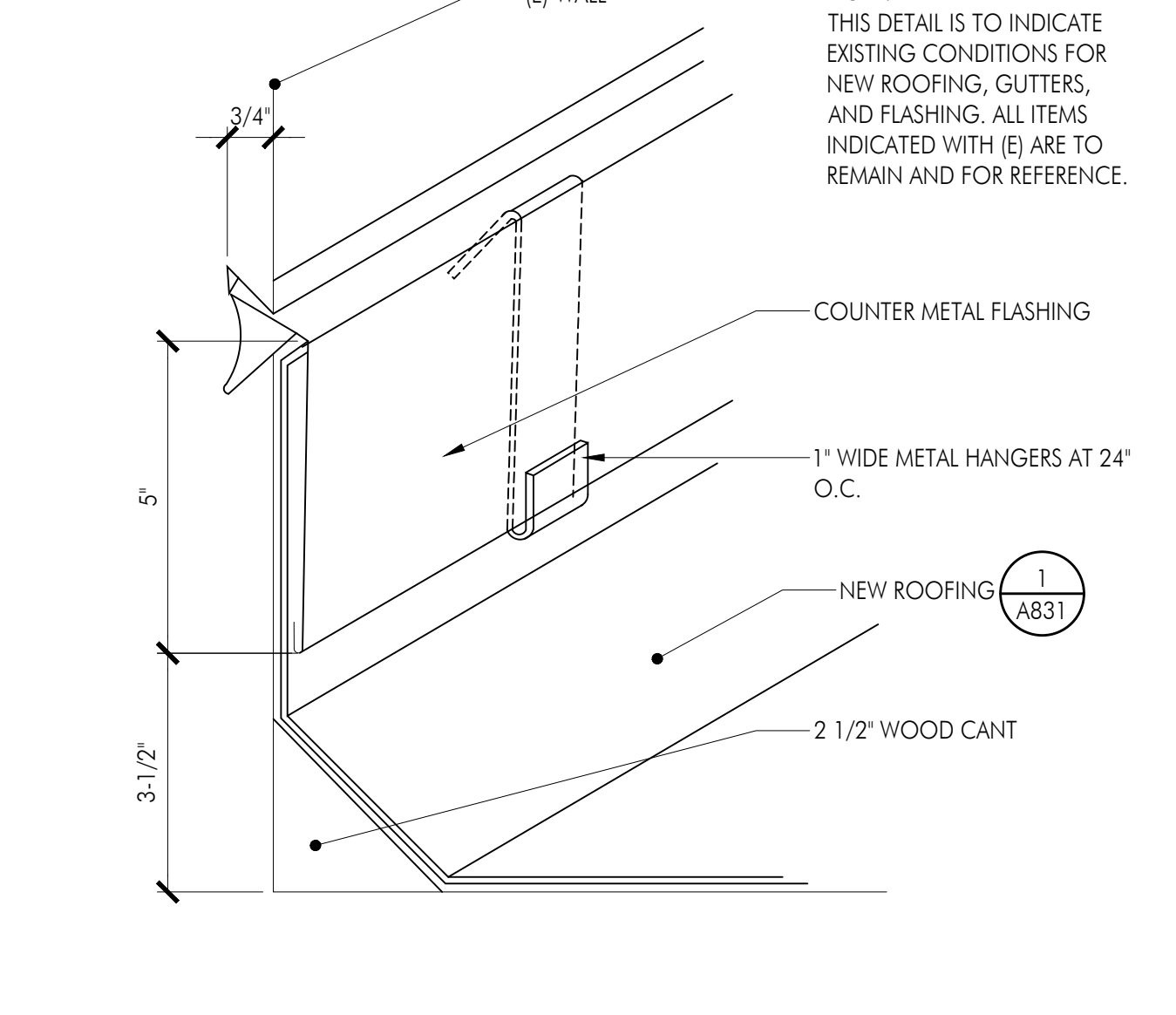
12 CRICKET AT TRANSITE WALL

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



8 CRICKET AT CONCRETE WALL

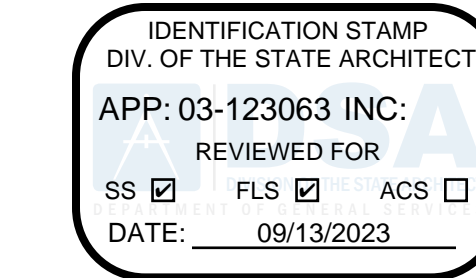
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4 FLASHING DETAIL

SCALE: NTS

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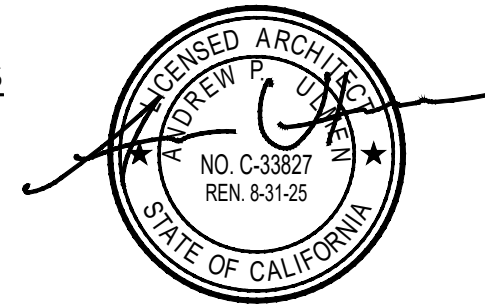
Gymnasium HVAC Replacement

Rosemead High School  
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Checked By: AC, AF

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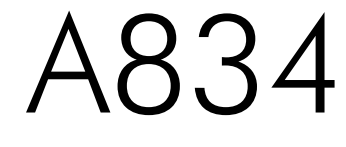
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Roof Details Existing  
Roof Coordination

Sheet Number

A833







DRAWING NAME: 22174SI.DWG

GENERAL

1. ALL WORKMANSHIP, MATERIAL, AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, TO VERIFY CONDITIONS AT THE JOB SITE AND TO CROSSCHECK DETAILS AND DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND ALL OTHER PERTINENT DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION.
4. DETAILS MARKED TYPICAL SHALL APPLY IN ALL CASES, UNLESS SPECIFICALLY DETAILED OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING BRACING, SHORING, AND LAYDOWN OF CONSTRUCTION MATERIALS, ETC. UNLESS SPECIFICALLY INDICATED OTHERWISE. THE DESIGN AND INSTALLATION OF TEMPORARY SHORING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. UNLESS OTHERWISE STATED IN WRITING, SITE VISITS BY REPRESENTATIVES OF THE STRUCTURAL ENGINEER:

A. DO NOT INCLUDE INSPECTION OF PROTECTIVE OR TEMPORARY CONSTRUCTION.

B. ARE GENERAL IN NATURE AND ARE NOT CONTINUOUS OR DETAILED.

C. DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE.

D. SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
8. DIMENSIONS SHALL GOVERN OVER SCALES SHOWN ON DRAWINGS.
9. DESIGN LIVE LOADS:

A. ROOF20 PSF

SEISMIC DESIGN DATA

1. SEISMIC RISK CATEGORY = III
2. IMPORTANCE FACTOR I = 1.25
3. MAPPED ACCELERATION PARAMETERS:

S<sub>a</sub> = 1.969

S<sub>1</sub> = 0.713
4. SITE CLASS = D (DEFAULT)
5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:

S<sub>DS</sub> = 1.975

S<sub>DS1</sub> = 0.808
6. SEISMIC DESIGN CATEGORY = E

DESIGN WIND PRESSURE CRITERIA

1. BASIC WIND SPEED (3 SECOND GUST) = 101 MPH
2. RISK CATEGORY = III
3. WIND EXPOSURE = C

FOUNDATIONS

1. ALL FOUNDATION BEARING AND FILL MATERIALS SHALL BE INSPECTED AND APPROVED BY THE D.S.A. INSPECTOR PRIOR TO PLACING CONCRETE.
2. ALLOWABLE BEARING VALUE = 1500 PSF.
3. ALLOWABLE LATERAL BEARING PRESSURE = 100 PCF.

CONCRETE

1. CONCRETE SHALL BE AS FOLLOWS:

LOCATION	MIN. COMPRESSIVE STRENGTH, f <sub>c</sub> @ 28 DAYS (PSI)	CEMENT TYPE	AGGREGATE TYPE	MAXIMUM SIZE AGGREGATE (IN)	MAXIMUM SLUMP (IN)	MAXIMUM WATER/CEMENT RATIO (w/c)
FOUNDATIONS	3,000	II/V	HARDROCK	1½"	5"	0.50
SLABS ON GRADE	3,000	II/V	HARDROCK	1"	4"	0.45
OTHER	3,000	II/V	HARDROCK	1"	4"	0.50

2. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE CONFORMING TO ASTM C-33.
3. CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C-150 AND SHALL BE TESTED.
4. ALL REINFORCING BARS, DOWELS, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING OF CONCRETE.
5. CONTRACTOR SHALL SUBMIT A DRAWING FOR REVIEW INDICATING LOCATION OF CONCRETE CONSTRUCTION JOINTS PRIOR TO POURING CONCRETE. LOCATE JOINTS AT POINTS OF LOW STRESS AND TO MINIMIZE EFFECTS OF SHRINKAGE. PROVIDE KEYS UNLESS DETAILED OTHERWISE. ROUGHEN SURFACE TO RECEIVE CONCRETE TO ¼" AMPLITUDE.
6. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES THROUGH WALLS AND FLOORS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR ALL MOULDS, GROOVES, CLIPS, ORNAMENTS, GROUNDS AND OTHER INSERTS TO BE CAST IN CONCRETE.
8. CONTINUOUS INSPECTION IS REQUIRED DURING PLACING OF CONCRETE.
9. PEA GRAVEL MIXES ARE NOT ALLOWED, EXCEPT WHERE SPECIFICALLY REQUIRED DUE TO REBAR CONGESTION.
10. FLY ASH IS NOT PERMITTED.

REINFORCING STEEL

1. ALL REINFORCING SHALL BE PLACED AND SUPPORTED IN CONFORMANCE WITH "THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION" LATEST EDITION, PUBLISHED BY C.R.S.I.
2. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615 GRADE 60.
3. ALL REINFORCING STEEL TO BE WELDED SHALL BE DEFORMED BARS CONFORMING TO ASTM A-706 GRADE 60.
4. TIE WIRE SHALL BE 16 GAGE, FULLY ANNEALED, CONFORMING TO ASTM A-1064.
5. ALL REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVERAGE, UNLESS NOTED OTHERWISE:

A. CONCRETE PLACED AGAINST EARTH=3"

B. CONCRETE WITH FORMED SURFACES IN CONTACT WITH EARTH=2"

C. CONCRETE EXPOSED TO WEATHER, #5 BAR AND SMALLER=1½"
6. CONTINUOUS REINFORCING STEEL IN CONCRETE MUST BE SPLICED WITH A MINIMUM LAP ACCORDING TO THE TABLES BELOW, U.N.O.:

TYPICAL CLASS B REBAR LAP SPLICES (INCHES) f <sub>c</sub> = 3,000 PSI		
BAR SIZE	TOP BARS	OTHER BARS
#3	28"	22"
#4	37"	29"
#5	47"	36"
#6	56"	43"
#7	67"	52"
#8	93"	63"
#9	109"	81"
#10	118"	91"
#11	131"	101"
NOTES: <div>1. TOP BARS ARE HORIZ. BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.</div> <div>2. OTHER BARS ARE ALL EXCEPT TOP BARS.</div> <div>3. MULTIPLE LAP SPLICE LENGTHS BY 1.33 WHEN USED IN LIGHTWEIGHT CONCRETE.</div>		

7. ALL HORIZONTAL REINFORCING STEEL IN CONCRETE WALLS SHALL BE CONTINUOUS AROUND CORNERS IN EACH DIRECTION FOR 40 BAR DIAMETERS OR 1'-6" MINIMUM.
8. STAGGER REBAR SPLICES A MINIMUM OF TWICE THE LAP LENGTH FOR HORIZONTAL REINFORCING.
9. DOWELS SHALL BE PROVIDED AT ALL POUR JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS REINFORCING DIRECTLY BEYOND POUR JOINTS.
10. ANY WELDING OF REINFORCING STEEL REQUIRES E-80XX LOW HYDROGEN MOISTURE RESISTING ELECTRODES, CONTINUOUS INSPECTION BY A LICENSED DEPUTY INSPECTOR AND PRE-QUALIFICATION AS REQUIRED BY D.S.A.

STRUCTURAL STEEL

1. STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE 2016 EDITION A.I.S.C. "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS.

A. WIDE FLANGES: A992

B. PLATES: A572, GRADE 50

C. STEEL TUBES: A500, GRADE B (Fy=46KSI)

D. STEEL PIPES: A53, GRADE B

E. CHANNELS AND ANGLES: A36
3. 

A. TYP. BOLTS SHALL CONFORM TO ASTM A307 UNLESS NOTED OTHERWISE.

B. ANCHOR BOLTS AND THREADED RODS AT STEEL BASE PLATES SHALL CONFORM TO ASTM F1554 GRADE 36.
4. ALL HIGH STRENGTH BOLTS SHALL BE "CLASS A, SLIP CRITICAL", A325SC, TYPICAL, U.N.O., AND SHALL HAVE HARDENED WASHERS COMPLYING WITH ASTM F436. COMPLIANCE IS ALSO REQUIRED AS FOLLOWS:

A. A D.S.A. APPROVED INSPECTOR SHALL CHECK BOLT TIGHTNESS ON NOT LESS THAN 10% OF BOLTS SELECTED AT RANDOM IN EACH HIGH STRENGTH CONNECTION WITH A MINIMUM OF TWO BOLTS PER CONNECTION. THE INSPECTOR SHALL DETERMINE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 2, 3 AND 8 OF THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS, 2016 EDITION.

A D.S.A. APPROVED INSPECTOR SHALL OBSERVE THE INSTALLATION OF BOLTS TO DETERMINE THAT THE SELECTED PROCEDURE IS PROPERLY USED AND SHALL DETERMINE THAT ALL BOLTS ARE TIGHTENED.

C. WHEN THE DIRECT TENSION INDICATOR METHOD IS USED, A D.S.A. APPROVED INSPECTOR SHALL OBSERVE THE INSTALLATION OF BOLTS TO DETERMINE THAT THE APPROVED PROCEDURE IS PROPERLY USED AND SHALL DETERMINE THAT THE CORRECT INDICATION OF TENSION HAS BEEN ACHIEVED.
5. SHOP DRAWINGS FOR STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE REVIEWED PRIOR TO FABRICATION.
6. ALL WELDING SHALL CONFORM TO A.W.S. A5.1 AND A.W.S. D1.1 OF THE STRUCTURAL WELDING CODE.
7. ALL WELDING SHALL BE DONE BY AWS CERTIFIED OPERATORS QUALIFIED BY AN INSPECTOR APPROVED BY D.S.A. FOR THE TYPE OF OPERATION INVOLVED.
8. E-70XX ELECTRODES SHALL BE USED.
9. SPECIAL INSPECTION IS REQUIRED FOR ALL SHOP AND FIELD WELDING BY A SPECIAL WELDING INSPECTOR APPROVED BY THE D.S.A.
10. STRUCTURAL STEEL ADJACENT TO SOIL SHALL HAVE 4" MINIMUM CONCRETE COVERAGE.
11. ALL COMPLETE PENETRATION GROOVE WELDS AND PARTIAL PENETRATION GROOVE WELDS THICKER THAN ¼" SHALL BE TESTED BY ULTRASONIC TESTING.
12. AUTOMATIC END WELDED STUDS SHALL CONFORM TO ASTM A-108. WELDING SHALL BE DONE BY A QUALIFIED WELDERS, APPROVED BY D.S.A. PRIOR TO EACH DAY'S WORK A MINIMUM OF 2 TEST STUDS SHALL BE INSTALLED AND SUBJECTED TO A 90 DEGREE BEND TEST.
13. PRIOR TO WELDING, THE FOLLOWING MATERIAL SHALL BE TESTED BY UTRASONIC TESTING:

A. BASE PLATES THICKER THAN 1" WHICH HAVE FULL PENETRATION WELDS TO COLUMN.
14. TYPE OF WELD (SHOP OR FIELD) SHALL BE DETERMINED BY CONTRACTOR.
15. MINIMUM SIZE OF FILLET WELDS SHALL BE IN ACCORDANCE WITH AISC WHERE SMALLER WELDS ARE INDICATED OR WHERE NO SIZE IS INDICATED.
16. ALL EXTERIOR STRUCTURAL STEEL WHICH IS VISIBLE SHALL CONFORM TO AISC "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL" (AESS) STANDARDS.

WOOD

1. LUMBER SHALL BE DOUGLAS FIR-LARCH GRADED IN ACCORDANCE WITH THE LATEST WEST COAST LUMBERMANS INSPECTION BOARD GRADING RULES. ALL LUMBER SHALL BE S4S AND GRADE STAMPED AS FOLLOWS, UNLESS NOTED OTHERWISE:

A. JOISTS, BEAMS, POSTS, ETC.: NO.1

B. PLATES, BLOCKING, STUDS: NO.1
2. MOISTURE CONTENT OF LUMBER SHALL NOT EXCEED 19%.
3. ALL WOOD CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, UNLESS OTHERWISE SHOWN. ALL NAIL HOLES IN WOOD CONNECTORS SHALL BE FILLED WITH A NAIL OF THE LARGEST SIZE RECOMMENDED BY THE MANUFACTURER.
4. NO WOOD MEMBER SHALL BE CUT, NOTCHED OR BORED, EXCEPT AS DETAILED.
5. BOLT HOLES IN WOOD SHALL BE ½" TO ⅝" LARGER THAN THE BOLT. USE WASHERS UNDER HEAD AND NUT OF BOLTS. TIGHTEN ALL BOLTS PRIOR TO COVERING.
6. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED INTO PLACE (NOT DRIVEN). LEAD HOLES SHALL BE PRE-BORED AS FOLLOWS:

A. THE LEAD HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH AS THE LENGTH OF THE UNTHREADED SHANK.

B. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 40% TO 75% OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE LARGER FIGURE IN EACH RANGE SHALL APPLY TO LAG SCREWS OF GREATER DIAMETERS.
7. ALL NAILS SHALL BE COMMON WIRE NAILS. SPECIAL NAILS OF THE SAME DIAMETER AND PENETRATING INTO THE SUPPORT ⅓ OF THE LENGTH OF THE NAIL CALLED FOR MAY BE USED FOR "SIMPSON" METAL ACCESSORIES, WHERE NAILS CANNOT BE DRIVEN WITHOUT DANGER OF SPLITTING. SUB-DRILL NAIL HOLES HAVING A DIAMETER EQUAL TO 50% TO 75% OF THE NAIL DIAMETER.
8. ALL PLYWOOD DESIGNATED ON THE STRUCTURAL DRAWINGS SHALL BE DOUGLAS FIR, CONFORMING TO THE LATEST NATIONAL BUREAU OF STANDARDS "U.S. PRODUCT STANDARD PS-1". PLYWOOD SHALL BE 5-LAYER, 5-PLY, GRADE STAMPED "STRUCTURAL 1" WITH EXTERIOR GLUE AND PANEL INDEX 32/16 FOR ½" PLYWOOD AND 48/24 FOR ¾" PLYWOOD, UNLESS NOTED OTHERWISE.

TYPICAL NAILING SCHEDULE

USE THE FOLLOWING NAILING SCHEDULE, UNLESS DETAILED OTHERWISE:

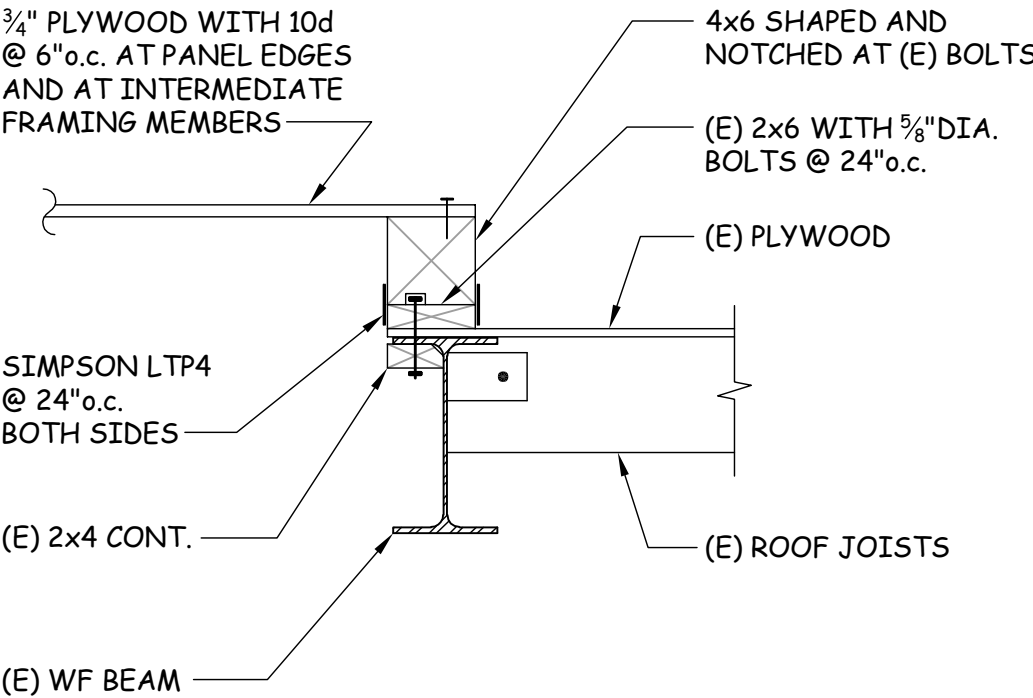
CONNECTION	NAILING
1. JOIST OR RAFTERS TO SIDES OF STUDS 8-INCH JOIST OR LESS FOR EACH ADDITIONAL 4 INCHES IN DEPTH OF JOIST	3-16d 3-16d
2. BRIDGING TO JOIST, TOENAIL EACH END a. BLOCKING BETWEEN JOISTS OR RAFTERS - TO JOIST OR RAFTERS - TOENAILS EACH SIDE, EACH END b. BLOCKING BETWEEN STUDS, EACH END	2-8d 2-10d 2-10d TOENAILS OR 2-16d
3. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS	16d AT 16" o.c. 3-16d PER 16"
4. TOP PLATE TO STUD, END NAIL	3-16d AT 2x8 STUDS 2-16d AT 2x6 STUDS
5. STUD TO SOLE PLATE	4-8d, TOENAIL OR 3-16d, END NAIL AT 2x8 STUDS 4-8d, TOENAIL OR 2-16d, END NAIL AT 2x6 STUDS
6. DOUBLE STUDS, FACE NAIL	16d AT 24" o.c.
7. DOUBLE TOP PLATES, TYPICAL FACE NAIL DOUBLE TOP PLATES, LAP SPLICE	16d AT 8" o.c. SEE DETAIL
8. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3-8d
9. RIM JOIST TO TOP PLATE, TOENAIL	8d AT 6" o.c.
10. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d
11. CONTINUOUS HEADER, TWO PIECES	16d AT 16" o.c. ALONG EACH EDGE
12. CEILING JOISTS TO PLATE, TOENAIL	3-8d
13. CONTINUOUS HEADER TO STUD, TOENAIL	4-8d
14. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-16d
15. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	3-16d
16. JOIST OR RAFTERS AT ALL BEARINGS - TOENAILS, EACH SIDE	2-10d
17. 1" BRACE TO EACH STUD AND PLATE, FACE NAIL	2-8d
18. BUILT-UP CORNER STUDS	16d AT 24" o.c.

EXPANSION ANCHORS IN CONCRETE

1. ALL EXPANSION ANCHORS SHALL BE CARBON STEEL KWIK BOLT T2Z CONCRETE ANCHORS MANUFACTURED BY HILTI, INC.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ICC ESR-4266.
3. COMPLY WITH ALL MANUFACTURER'S RECOMMENDATIONS.
4. CONTINUOUS INSPECTION IS REQUIRED FOR ANCHOR INSTALLATION.

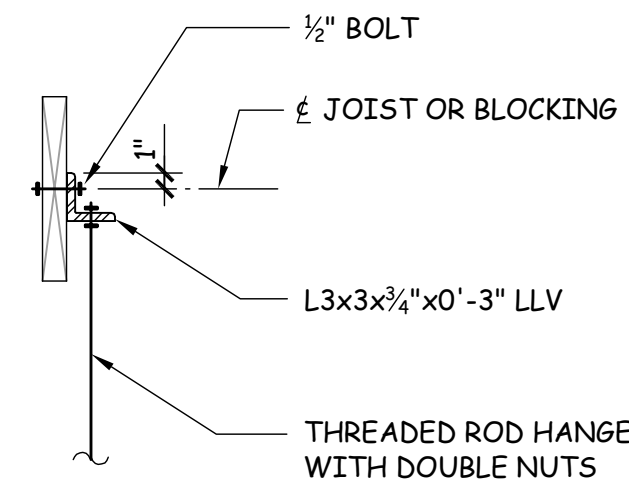
ADHESIVE ANCHORS IN CONCRETE

1. ALL ADHESIVE ANCHORS SHALL CONSIST OF HIT-RE 500 V3 ADHESIVE MANUFACTURED BY HILTI, INC.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ICC ESR-3814.
3. COMPLY WITH ALL MANUFACTURER'S RECOMMENDATIONS.
4. CONTINUOUS INSPECTION IS REQUIRED FOR ANCHOR INSTALLATION.



SECTION

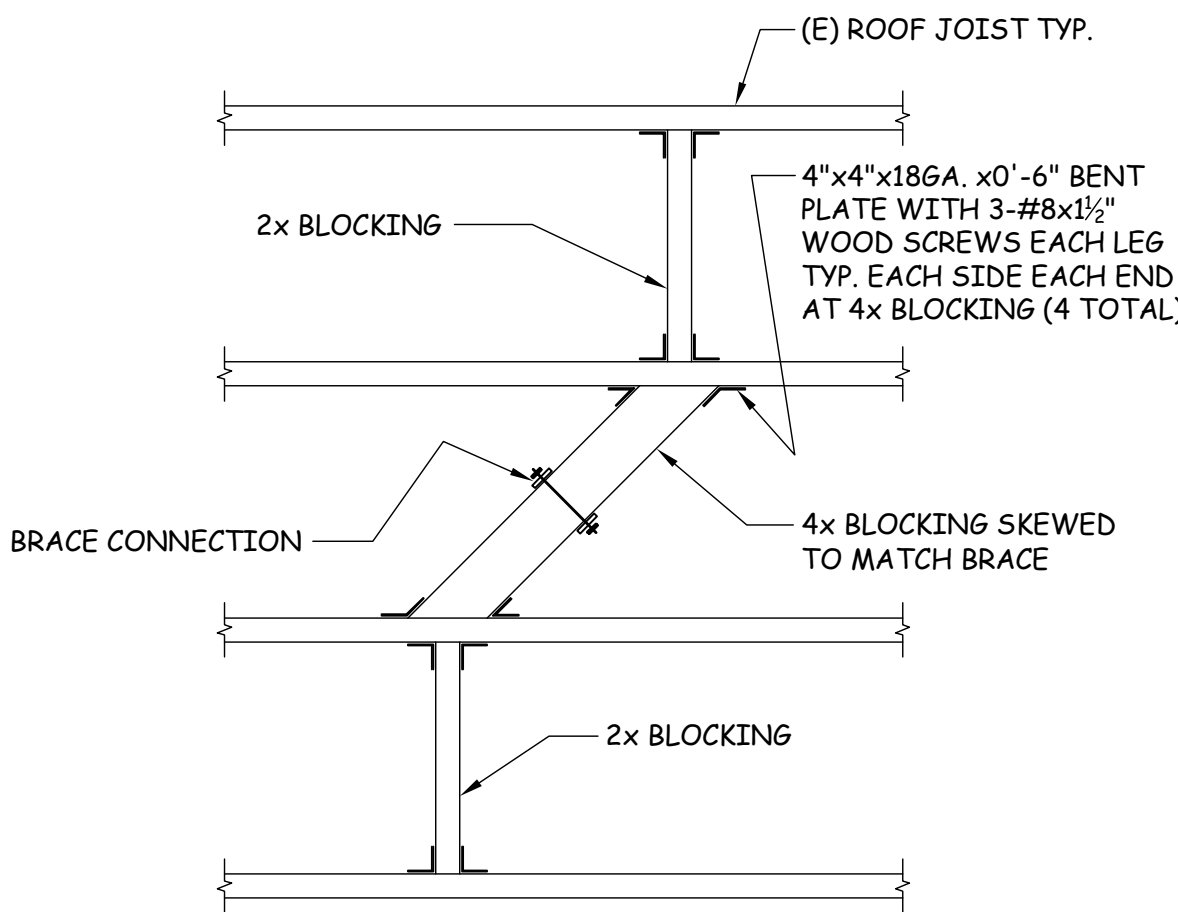
15



- NOTES:
1. MAX. POINT LOAD ON (E) JOIST IS 60# U.N.O.
2. HANGER RODS SHALL BE CONNECTING TO ROOF FRAMING MEMBERS, NOT CEILING FRAMING MEMBERS, TYP.

HANGER ROD CONN. DETAIL

20

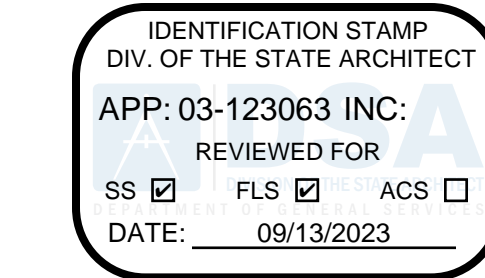


BLOCKING PLAN DETAIL

25

GENERAL NOTES

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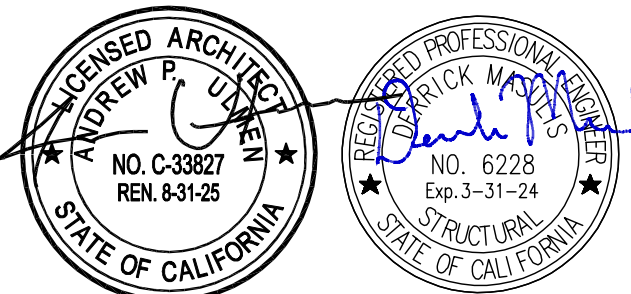
Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev	Date	Issue
	03.06.23	DSA SUBMITTAL
	09.08.23	DSA BACKCHECK

Date: 08.18.2023  
Scale:  
Drawn By: XX  
Checked By:

Architect / Engineer Stamp



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GROSSMAN & SPEER ASSOCIATES, INC.

#22174

Sheet Title

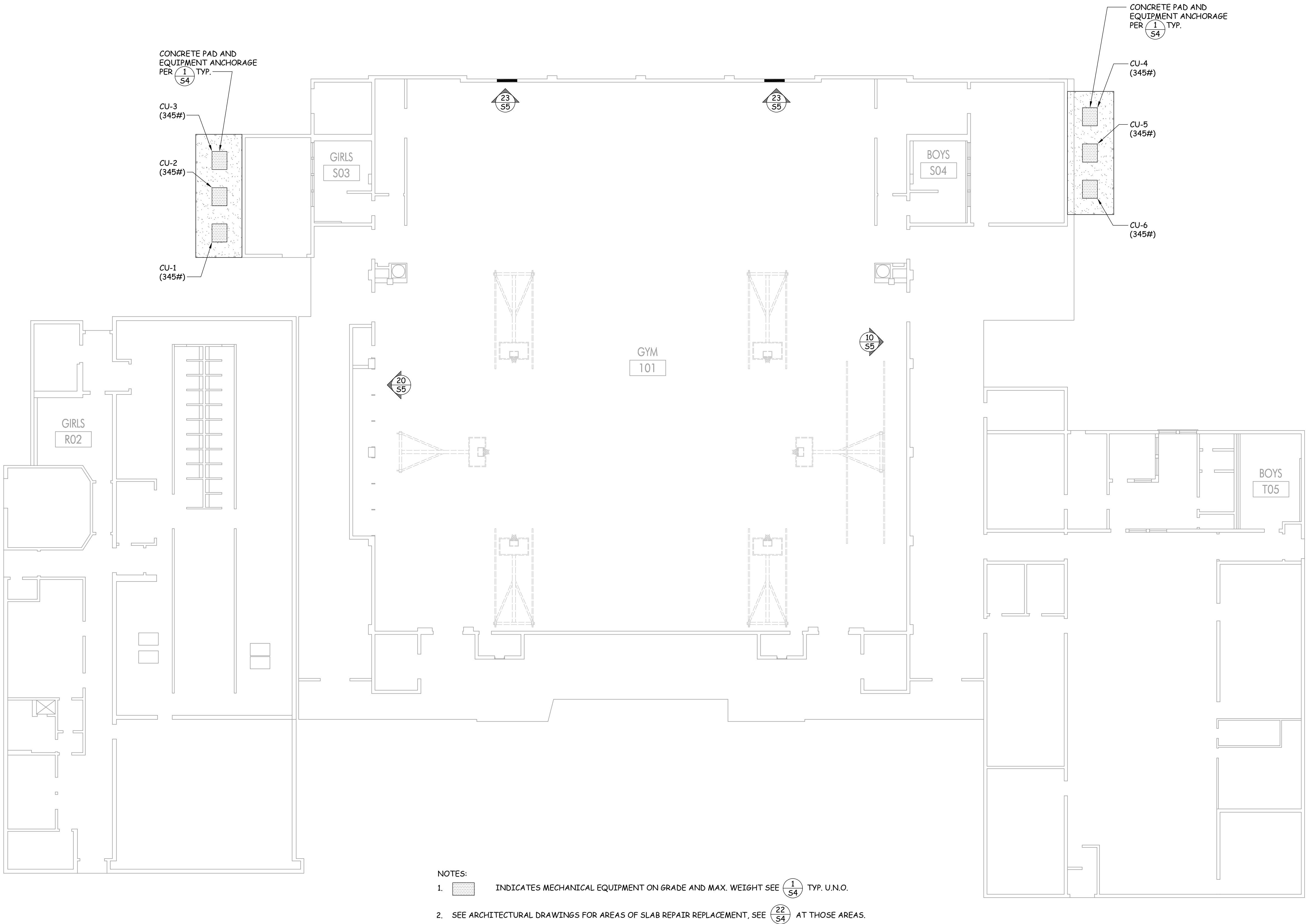
General Notes  
and Details


Sheet Number

S1



DRAWING NAME: 2217452.DWG



- NOTES:
1.  INDICATES MECHANICAL EQUIPMENT ON GRADE AND MAX. WEIGHT SEE  $\frac{1}{54}$  TYP. U.N.O.
  2. SEE ARCHITECTURAL DRAWINGS FOR AREAS OF SLAB REPAIR REPLACEMENT, SEE  $\frac{22}{54}$  AT THOSE AREAS.

DSA A# 03-123063

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 03-123063 INC:  
REVIEWED FOR:  
SS ☒ FLS ☒ ACS ☐  
DATE: 09/13/2023

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Architect



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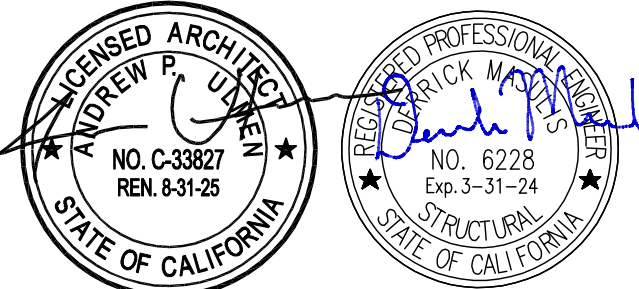
## Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

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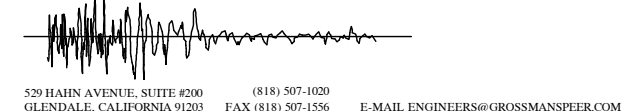
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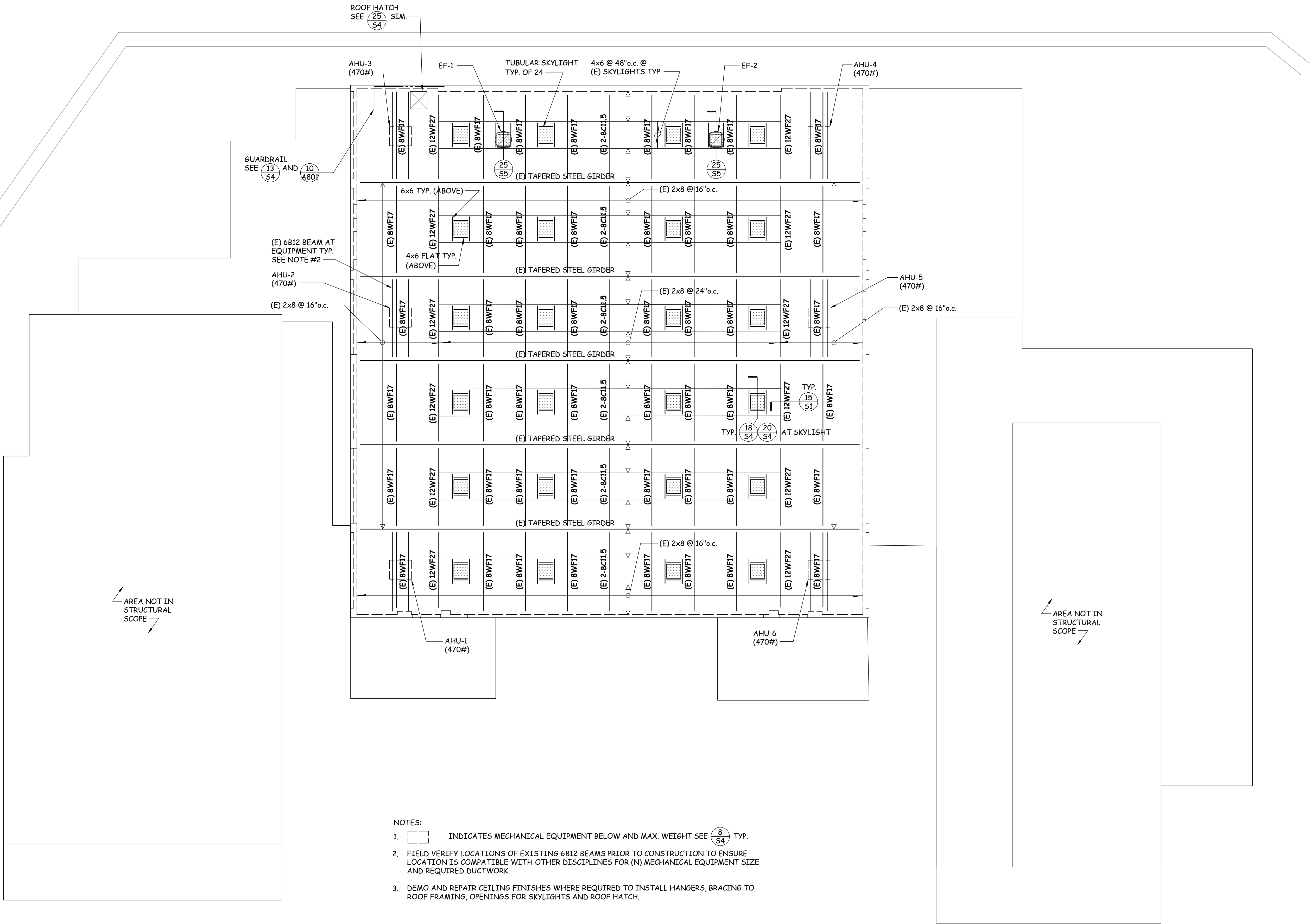
Floor Plan

Sheet Number

S2

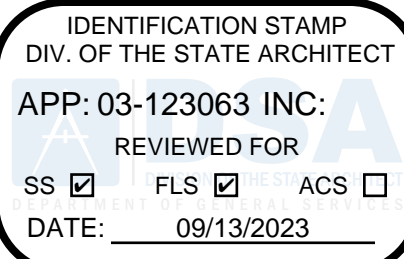


DRAWING NAME: 2217453.DWG



- NOTES:
- INDICATES MECHANICAL EQUIPMENT BELOW AND MAX. WEIGHT SEE  $\left(\frac{8}{S4}\right)$  TYP.
  - FIELD VERIFY LOCATIONS OF EXISTING 6812 BEAMS PRIOR TO CONSTRUCTION TO ENSURE LOCATION IS COMPATIBLE WITH OTHER DISCIPLINES FOR (N) MECHANICAL EQUIPMENT SIZE AND REQUIRED DUCTWORK.
  - DEMO AND REPAIR CEILING FINISHES WHERE REQUIRED TO INSTALL HANGERS, BRACING TO ROOF FRAMING, OPENINGS FOR SKYLIGHTS AND ROOF HATCH.

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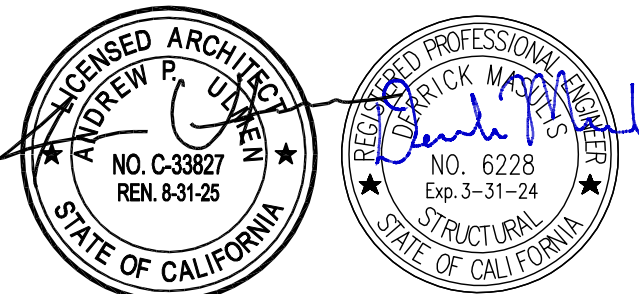
## Gymnasium HVAC Replacement

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9063 Mission Drive  
Rosemead, California 91770

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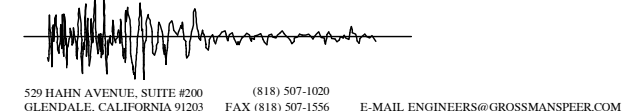
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Sheet Title

Rood Framing Plan

Sheet Number

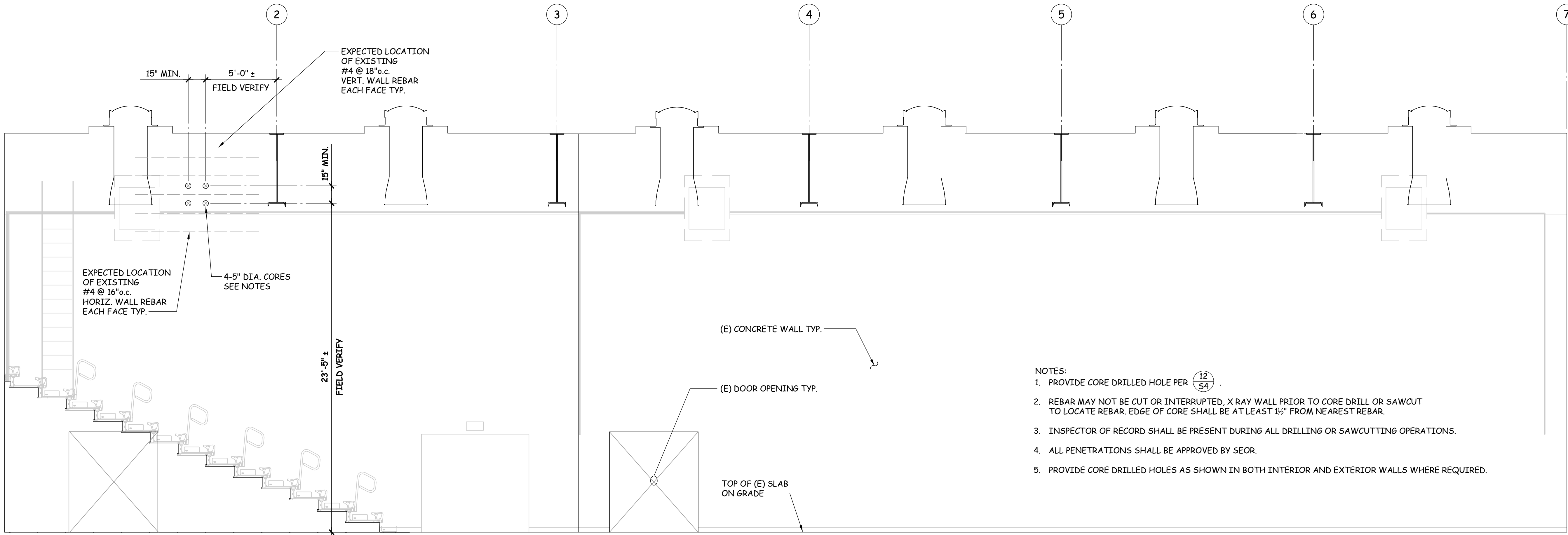
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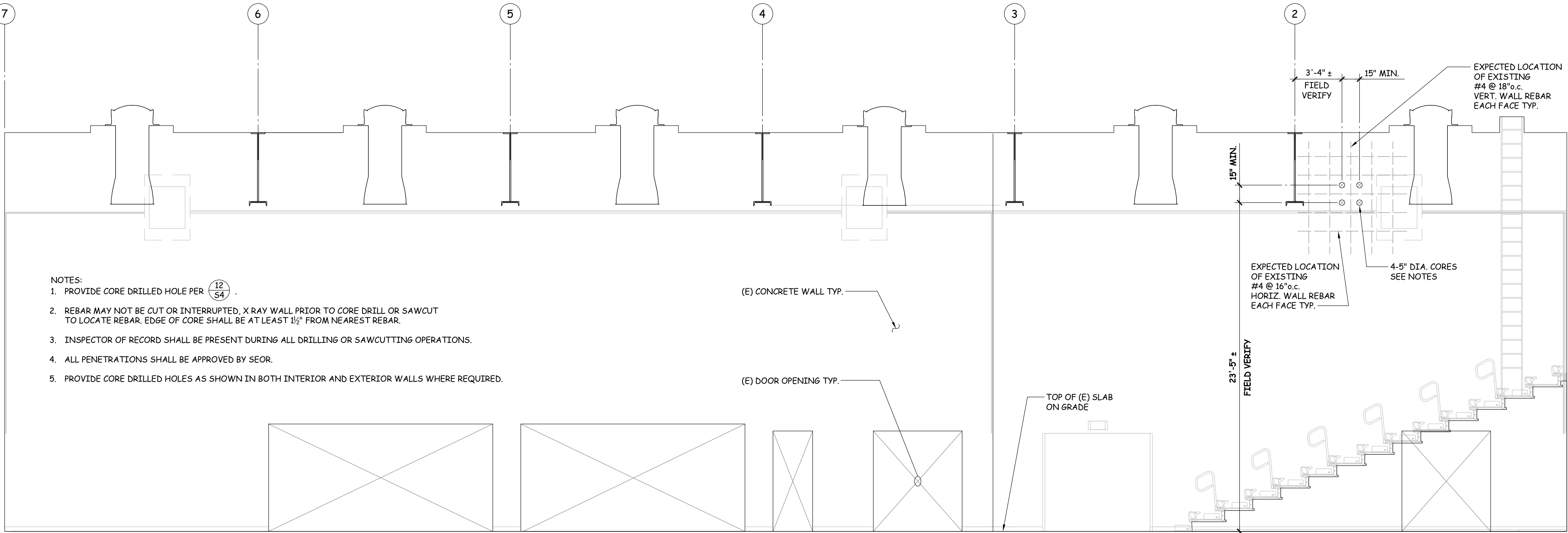


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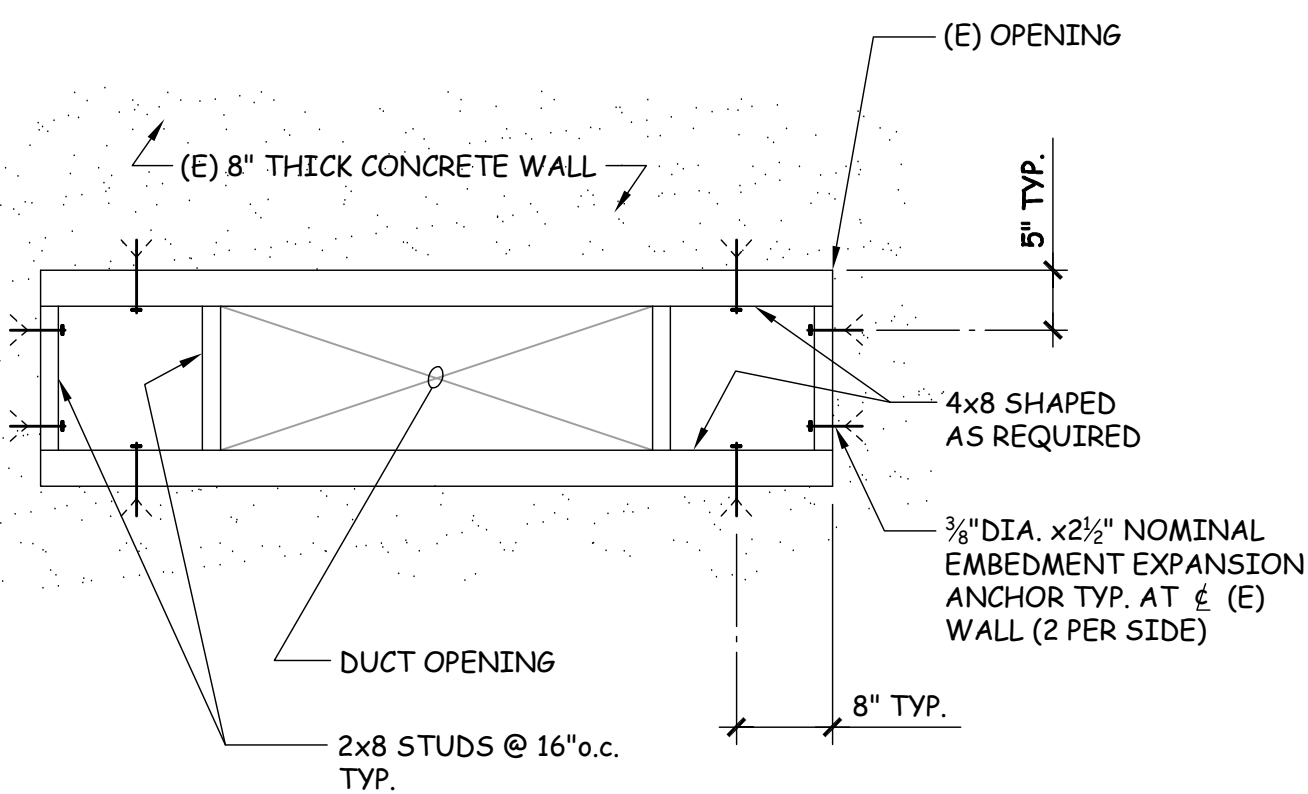
ELEVATION

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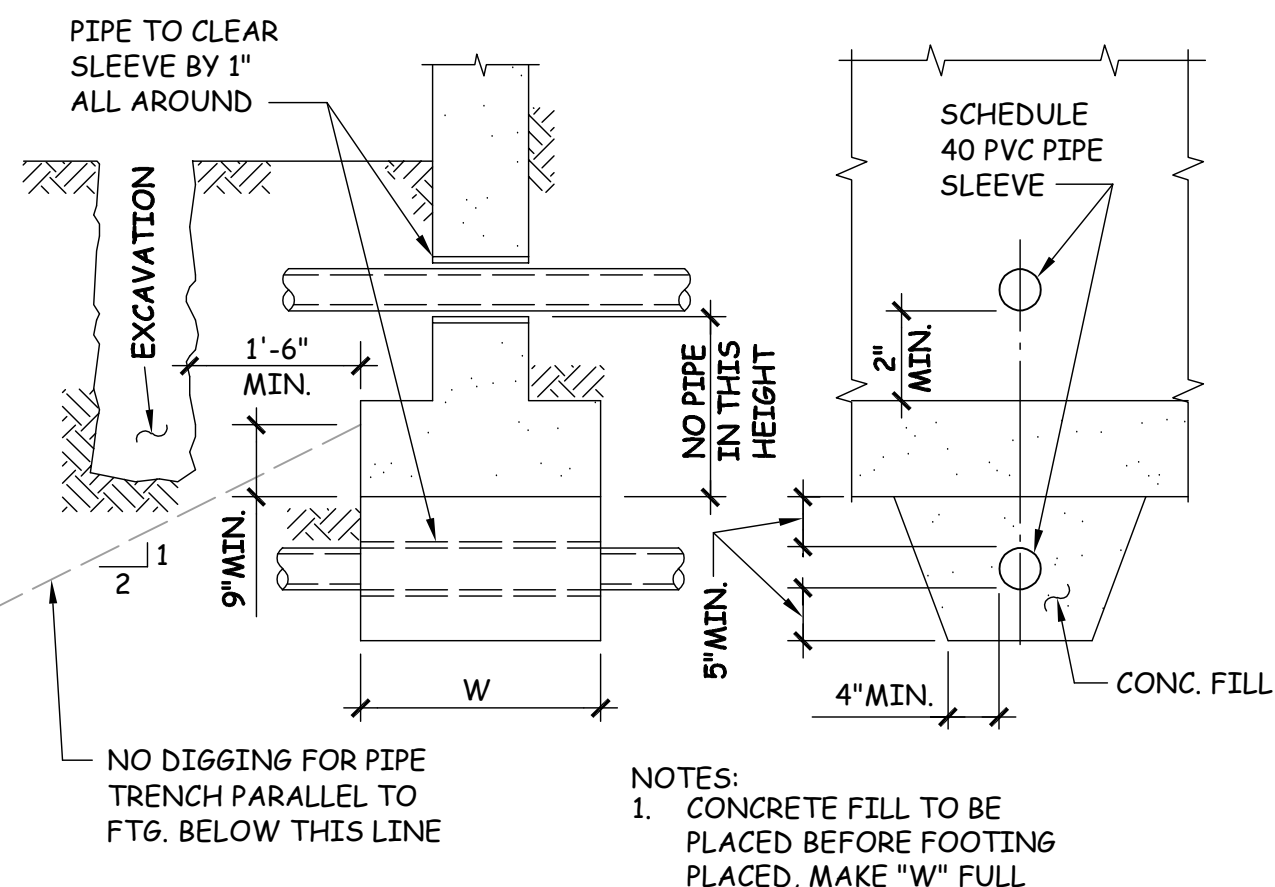
ELEVATION

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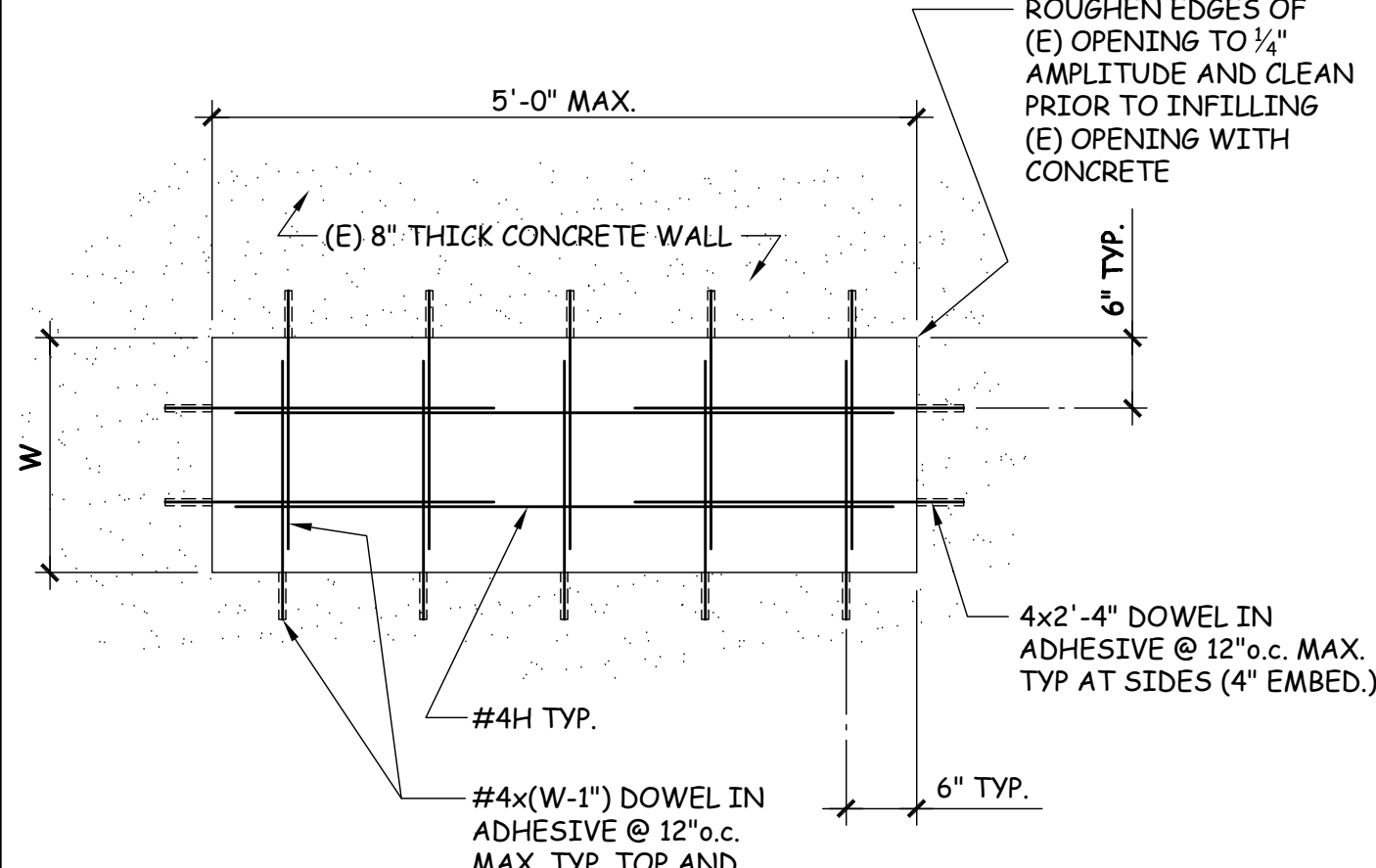
ELEVATION

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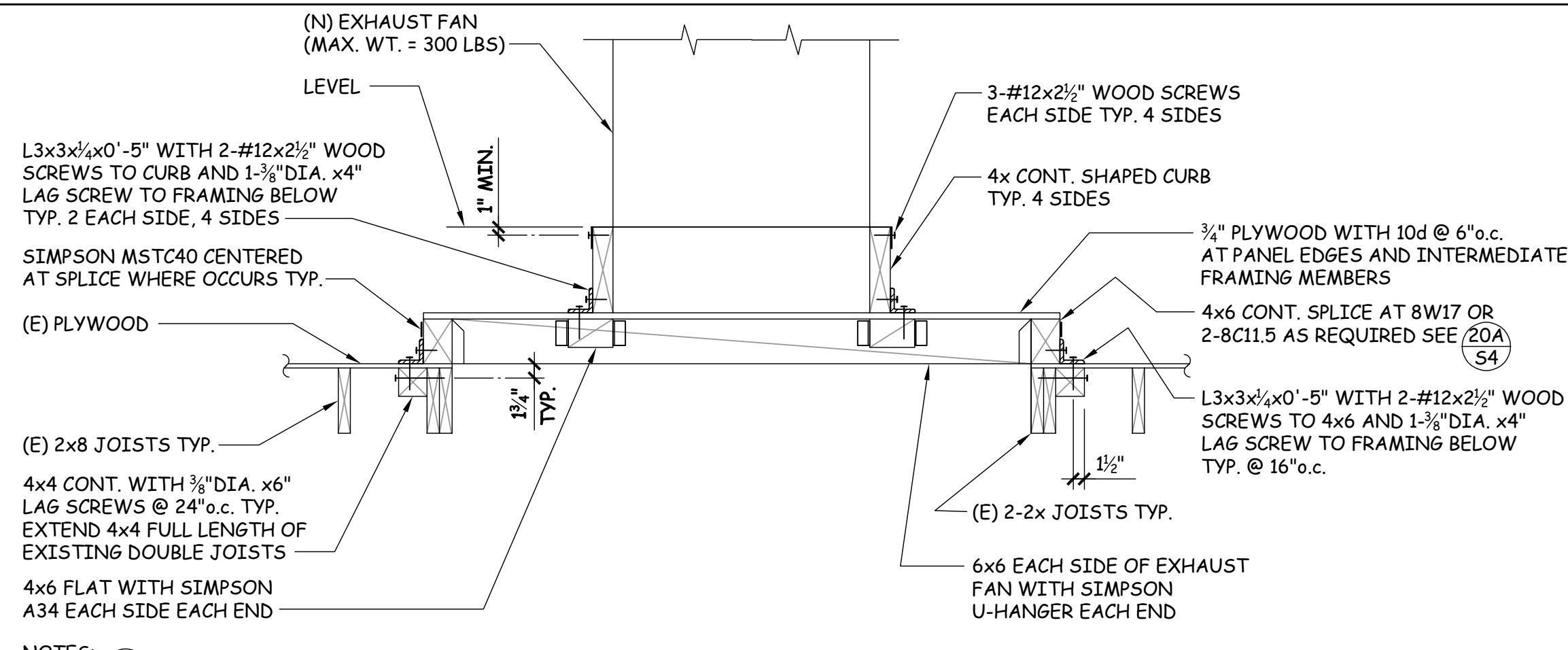
TYP. FOOTING DETAIL

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ELEVATION

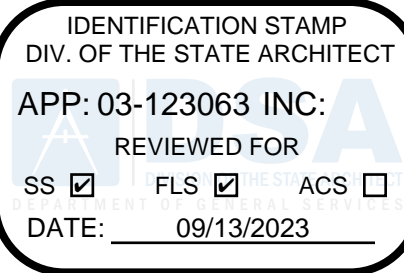
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TYP. EXHAUST FAN DETAIL

25

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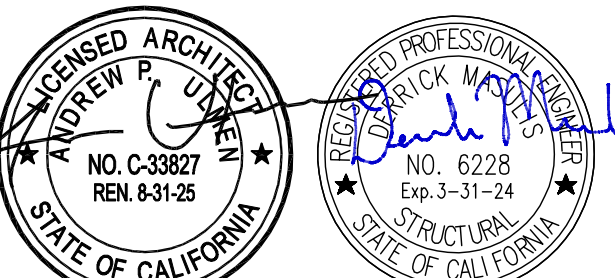
Gymnasium HVAC Replacement

Rosemead High School  
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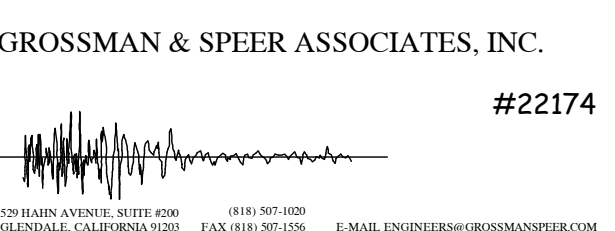
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Sheet Title

Details and Sections

Sheet Number

S5



MEP COMPONENT ANCHORAGE NOTE	
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.	
1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE. 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL, THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RETAINED IN A MANNER APPROVED BY DSA.	
THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCE NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.	
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL, THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.	
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL. IN GENERAL, RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.	



















PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.	
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS.	
THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL SYSTEMS (E): MP, MD, X, PP, X, E, _ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. MP, _MD, _PP, _E, _ OPTION 2: SHALL COMPLY WITH APPLICABLE OSHPD PRE-APPROVAL (OPM #) # _____.	



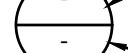
CA GREEN BUILDING STANDARDS NOTES	
ENTIRE INSTALLATION SHALL COMPLY WITH THE 2022 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE INCLUDING THE FOLLOWING APPLICABLE MANDATORY MEASURES:	
1. 5.504.1.3 - PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, CONTRACTOR SHALL USE MEV9 MINIMUM RETURN AIR FILTERS. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY. 2. 5.504.5 - CONTRACTOR SHALL COVER ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY DURING STORAGE AND CONSTRUCTION AND UNTIL FINAL STARTUP. 3. 5.504.5.3 - MEV9 13 FILTERS ARE REQUIRED FOR HVAC SYSTEMS SERVING REGULARLY OCCUPIED AREAS AND AS INDICATED IN THESE PLANS. 4. 5.504.7 - OUTDOOR SMOKING AREAS SHALL BE MINIMUM 25'-0" FROM ALL BUILDING ENTRIES, OUTDOOR AIR INTAKES, AND OPERABLE WINDOWS. 5. 5.505.1 - INSTALLATION SHALL COMPLY WITH CBC SECTION 1203 AND CHAPTER 14 FOR INDOOR MOISTURE CONTROL. 6. 5.506.2 - DEMAND CONTROL VENTILATION REQUIRED FOR ALL DENSELY OCCUPIED SPACES PER 2022 CALIFORNIA ENERGY CODE REQUIREMENTS. 7. 5.508.1 - HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFOS OR HALONS.	

LEGEND		
SYMBOL	ABBR.	DESCRIPTION
	—	SUPPLY AIR RISER
	—	RETURN AIR RISER
	—	EXHAUST AIR RISER
	SAG	SUPPLY AIR GRILLE
	RAG	RETURN AIR GRILLE
	EAG	EXHAUST AIR GRILLE
	SWR	SIDEWALL REGISTER
	(L)	LINED DUCTWORK
	FC	FLEXIBLE CONNECTION
	—	NEW DUCT (SEE PLAN)
	—	EXISTING DUCT (SEE PLAN)
	—	DEMO DUCT (SEE PLAN)
	MVD	MANUAL VOLUME DAMPER
	BDD	BACKDRAFT DAMPER
	SFD	SMOKE / FIRE DAMPER
	FD	FIRE DAMPER
	DL	DOOR LOUVER
	U.C.	UNDERCUT DOOR 3/4"
	RS	REFRIGERANT SUCTION LINE
	RL	REFRIGERANT LIQUID LINE
	CD	CONDENSATE DRAIN
	S.D.	SMOKE DETECTOR
	P.O.C.	POINT OF CONNECTION
	T—STAT	THERMOSTAT MOUNTED MAX 48" A.F.F. TO TOP OF BOX (11B—308.1.1)
	H	HUMIDISTAT
	TS	TEMPERATURE SENSOR
	OS	OVERRIDE SWITCH
	PD	PRESSURE DIFFERENTIAL SWITCH
	S	SWITCH
	CO2	CO2 SENSOR
	O.C.	ON CENTER
	HWR	HOT—WATER RETURN
	HWS	HOT—WATER SUPPLY
	I.D.	INSIDE DIAMETER
	O.D.	OUTSIDE DIAMETER
	W/	WITH
	S/M	SHEET METAL
	S/S	STAINLESS STEEL
	G.C.	GENERAL CONTRACTOR
	VTR	VENT THRU ROOF
	EMS	ENERGY MANAGEMENT SYSTEM
	OBD	OPPOSED BLADE DAMPER
	FSC	FAN SPEED CONTROL

GENERAL NOTES	
----- GENERAL NOTES -----	----- AIR DISTRIBUTION -----
1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA MECHANICAL CODE, 2022 CALIFORNIA BUILDING CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING 2022 CALIFORNIA ENERGY CONSERVATION STANDARDS, DIVISION 7—24.	15. CONTRACTOR TO SUBMIT ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION DEVICES, AND OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.
2. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID — NO EXCEPTIONS.	16. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 35 DAYS OF AWARD OF CONTRACT. IF SHOP DRAWINGS ARE NOT PROVIDED TO THE ARCHITECT FOR APPROVAL, AND ANY CONFLICTS OCCUR BETWEEN TRADES, DURING CONSTRUCTION, & ETC., THEN THE CONTRACTOR SHALL BE RESPONSIBLE AND BEAR ALL COST INCURRED FOR ANY REVISIONS AT NO ADDITIONAL COST TO THE ARCHITECT. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY PRIOR TO FABRICATION AND INSTALLATION OF ANY CONFLICTS BETWEEN TRADES, DURING CONSTRUCTION, & ETC.
3. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.	17. CONTRACTOR SHALL BE RESPONSIBLE FOR COMMISSIONING OF EQUIPMENT.
4. NOT USED.	18. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.
5. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHER-PROOFED AND PAINTED TO MATCH, COORDINATE WITH ARCHITECT PRIOR TO PAINTING.	----- CONTROLS -----
6. ALL DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE.	19. CONTROL SCHEMATICS ARE FOR SEQUENCE ONLY. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL ELECTRICAL DEVICES REQUIRED.
7. PRIOR TO OCCUPANCY, THE ENTIRE H.V.A.C. SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS BY AN INDEPENDENT AIR BALANCE CONTRACTOR. CERTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR FOR AIR AND HYDRONIC AS APPLICABLE. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING FRESH AIR VENTILATION. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, THE AIR BALANCE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO BALANCING OF SYSTEM. IF NOT THE AIR BALANCE CONTRACTOR SHALL BEAR ALL COSTS INCURRED FOR WORK THAT MUST BE RE—BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE THREE COPIES OF THE AIR BALANCE REPORT TO THE ARCHITECT FOR REVIEW AND APPROVAL.	20. ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LINE VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFIED IN THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF ALL GOVERNING BODIES HAVING JURISDICTION THEREOF.
8. FOR INACCESSIBLE AREAS THE CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE AS FOLLOWS: 1) HAND ACCESS: 12"x12" 2) BODY ACCESS: 30"x30" MIN. WHERE A LARGER ACCESS SIZE IS REQUIRED DUE TO INSTALLATION CONSTRAINTS, THE CONTRACTOR SHALL DO SO AT NO ADDITIONAL COST AND SHALL NOTIFY THE ARCHITECT OF DEVIATIONS PRIOR TO INSTALLATION.	21. ALL LOW VOLTAGE CONDUIT AND WIRING AS APPLICABLE, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AS INDICATED ON THE MECHANICAL DRAWINGS OR SPECIFIED IN THE MECHANICAL SECTION OF THE SPECIFICATIONS. A1) ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT IN INACCESSIBLE AREAS. A2) ALL LOW VOLTAGE WIRING SHALL BE PLENUM — RATED ABOVE ACCESSIBLE CEILINGS. B) WHERE THE CONTROLS CONTRACTOR IS RETAINED BY THE OWNER, THEY SHALL BE RESPONSIBLE FOR THE FOLLOWING: 1) FURNISH AND INSTALL ALL DEVICES, WIRING, AND TERMINATIONS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION. 2) COORDINATE ALL WORK AND REQUIREMENTS WITH OTHER TRADES INCLUDING GENERAL, MECHANICAL, AND ELECTRICAL CONTRACTORS. 3) CONTRACTOR SHALL FOLLOW ALL SUBMITTAL REQUIREMENTS PER DRAWINGS AND SPECIFICATIONS.
9. ALL EQUIPMENT, ACCESSORIES, AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.	22. ALL THERMOSTATS SHALL BE OF THE ELECTRONIC, PROGRAMMABLE, AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING OR COOLING. SET POINT RANGE SHALL BE 10 DEGREES F. BETWEEN FULL HEATING AND COOLING. THEY SHALL HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70 DEGREES F., AND COOLING AT A TEMPERATURE NOT LESS THAN 78 DEGREES F. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE 1— 1/2 DEGREES F. CONTROL LIMITS SHALL BE FROM 55 DEGREES F. TO 85 DEGREES F. MOUNT AT 48 INCHES ABOVE FLOOR PER DETAIL 1/M4.1 AND SECTION 11B—308, 2019 CBC.
10. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE ARCHITECT'S USE.	NOTES: 1) THERMOSTATS THAT ARE PART OF AN ENERGY MANAGEMENT SYSTEM SHALL FOLLOW CONTROL SPECIFICATIONS AND DRAWING REQUIREMENTS. 2) SHOULD THE LOCATION OF THE THERMOSTAT NOT MEET THE ADA HEIGHT REQUIREMENTS DUE TO OBSTRUCTIONS, THEN AN ALTERNATE LOCATION SHALL BE PROPOSED OR REQUESTED BY THE CONTRACTOR THAT SHALL BE APPROVED BY THE ARCHITECT.
11. ALL EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH FLEXIBLE DUCT AND PIPE CONNECTIONS.	23. CONTROLS CONTRACTOR AND AIR BALANCE CONTRACTOR SHALL COORDINATE WORK AND PERFORM NECESSARY TASKS AS REQUIRED TO OBTAIN AIR AND WATER FLOW QUANTITIES FOR SYSTEMS SHOWN HEREIN.
12. ALL HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH LATEST EFFICIENCY STANDARDS.	24. CONTROLS SHALL BE PROVIDED TO PROVIDE THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY THE STATE ENERGY REGULATIONS.
13. ALL FRESH AIR INTAKES SHALL MEET CODE REQUIRED CLEARANCES FROM EXHAUST, FLUE, FUEL, BURNING APPLIANCE AND PLUMBING VENT OUTLETS. FOR GAS/ELECTRIC AIR CONDITIONING UNITS WHERE THE CODE REQUIRED CLEARANCES ARE NOT MET, A FACTORY FLUE GAS DEFLECTOR AND EXTENSION SHALL BE USED TO MINIMIZE THESE CLEARANCES. CONTRACTOR SHALL DETERMINE LOCATIONS WHERE REQUIRED PRIOR TO BID. THIS SHALL BE PROVIDED AT NO ADDITIONAL COST.	
14. CONTRACTOR SHALL VERIFY ALL CLEARANCES AND AVAILABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATING MATERIAL.	

HEAT PUMP UNIT SCHEDULE												
SYM	MFR & MODEL #	AREA SERVED	COOLING CAPACITY	IEER/ EER	HEATING CAPACITY	COP	ELECTRICAL					REMARKS
							V	PH	HZ	MCA	MOCP	
CU 1	TRANE TVA09044AAA	GYM	90,000	14.1/ 11.0	87,000	3.3	460	3	60	16.0	25	345 1.2
CU 2	TRANE TVA09044AAA	GYM	90,000	14.1/ 11.0	87,000	3.3	460	3	60	16.0	25	345 1.2
CU 3	TRANE TVA09044AAA	GYM	90,000	14.1/ 11.0	87,000	3.3	460	3	60	16.0	25	345 1.2
CU 4	TRANE TVA09044AAA	GYM	90,000	14.1/ 11.0	87,000	3.3	460	3	60	16.0	25	345 1.2
CU 5	TRANE TVA09044AAA	GYM	90,000	14.1/ 11.0	87,000	3.3	460	3	60	16.0	25	345 1.2
CU 6	TRANE TVA09044AAA	GYM	90,000	14.1/ 11.0	87,000	3.3	460	3	60	16.0	25	345 1.2
1. NEOPRENE ISOLATION PADS. 2. 6" MIN. CONCRETE PAD.												

FAN COIL SCHEDULE														
SYM	MFR & MODEL #	AREA SERVED	CFM	OA CFM	FAN HP	ELECTRICAL					WT (LBS)	REMARKS	WIRING DETAIL	ANCHORAGE DETAIL
						V	PH	HZ	MCA	MOCP				
 AHU 1	TRANE TWE09044AAA	GYM	3,000	900	1.79	460	3	60	4.0	15	470	1, 2	 5 M300	 2 M300
 AHU 2	TRANE TWE09044AAA	GYM	3,000	900	1.79	460	3	60	4.0	15	470	1, 2	 5 M300	 2 M300
 AHU 3	TRANE TWE09044AAA	GYM	3,000	900	1.79	460	3	60	4.0	15	470	1, 2	 5 M300	 2 M300
 AHU 4	TRANE TWE09044AAA	GYM	3,000	900	1.79	460	3	60	4.0	15	470	1, 2	 5 M300	 2 M300
 AHU 5	TRANE TWE09044AAA	GYM	3,000	900	1.79	460	3	60	4.0	15	470	1, 2	 5 M300	 2 M300
 AHU 6	TRANE TWE09044AAA	GYM	3,000	900	1.79	460	3	60	4.0	15	470	1, 2	 5 M300	 2 M300
1. (N) PELICAN WIFI THERMOSTAT W/ CO2 SENSOR, TS-250, W/ TAMPER, IMPACT RATED COVER. 2. MICROMETL MIXING BOX, W/ BELIMO ACTUATOR & PELICAN PEARL ECONOMIZER CONTROLLER.														

AIR DISTRIBUTION SCHEDULE										
SYM.	MANUF & MODEL	NECK SIZE	FACE SIZE	CFM RANGE	MAX. NECK VELOCITY	MAX. N.C.	T. P. DROP	TYPE	DAMPER	REMARKS
 SR-1	PRICE HCD	18"x15" 24"x15"	20"x17" 26"x17"	900 - 1100 1400 - 1600	750 750	25 25	0.06 0.08	LOUVERED ADJUSTABLE	MVD	BORDER TYPE N FOR SIDEWALL MOUNT
LEGEND										
	CFM									
	AIR DISTRIBUTION DEVICE	SD	SUPPLY DIFFUSER	<u>NOTES:</u> 1. NOT ALL DIFFUSER/GRILLE TYPES OR SIZES MAY BE USED ON THIS PROJECT.						
		SR	SUPPLY REGISTER							
		RG	RETURN GRILLE							
		EG	EXHAUST GRILLE							
		TG	TRANSFER GRILLE							

EXHAUST FAN SCHEDULE										
SYM	MFR & MODEL #	SERVICE	CFM	ESP	HP	BHP	ELECTRICAL		FAN RPM	WT (LBS)
							V	PH		
EF 1	GREENHECK G-240-VG	GYM 101	9,000	0.4	5	3.44	460	3	1,089	300 1.2, 3
EF 2	GREENHECK G-240-VG	GYM 101	9,000	0.4	5	3.44	460	3	1,089	300 1.2, 3
1. BACKDRAFT DAMPER. 2. ROOF CURB. 3. VG MOTOR W/ INTEGRAL PRESSURE TRANSDUCER SET TO +0.5" W.C. BUILDING STATIC.										

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REVIEWED FOR  
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DS ☐ DATE: 09/13/2023

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Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev	Date	Issue
03.06.23	09.08.23	DSA SUBMITTAL DSA BACKCHECK

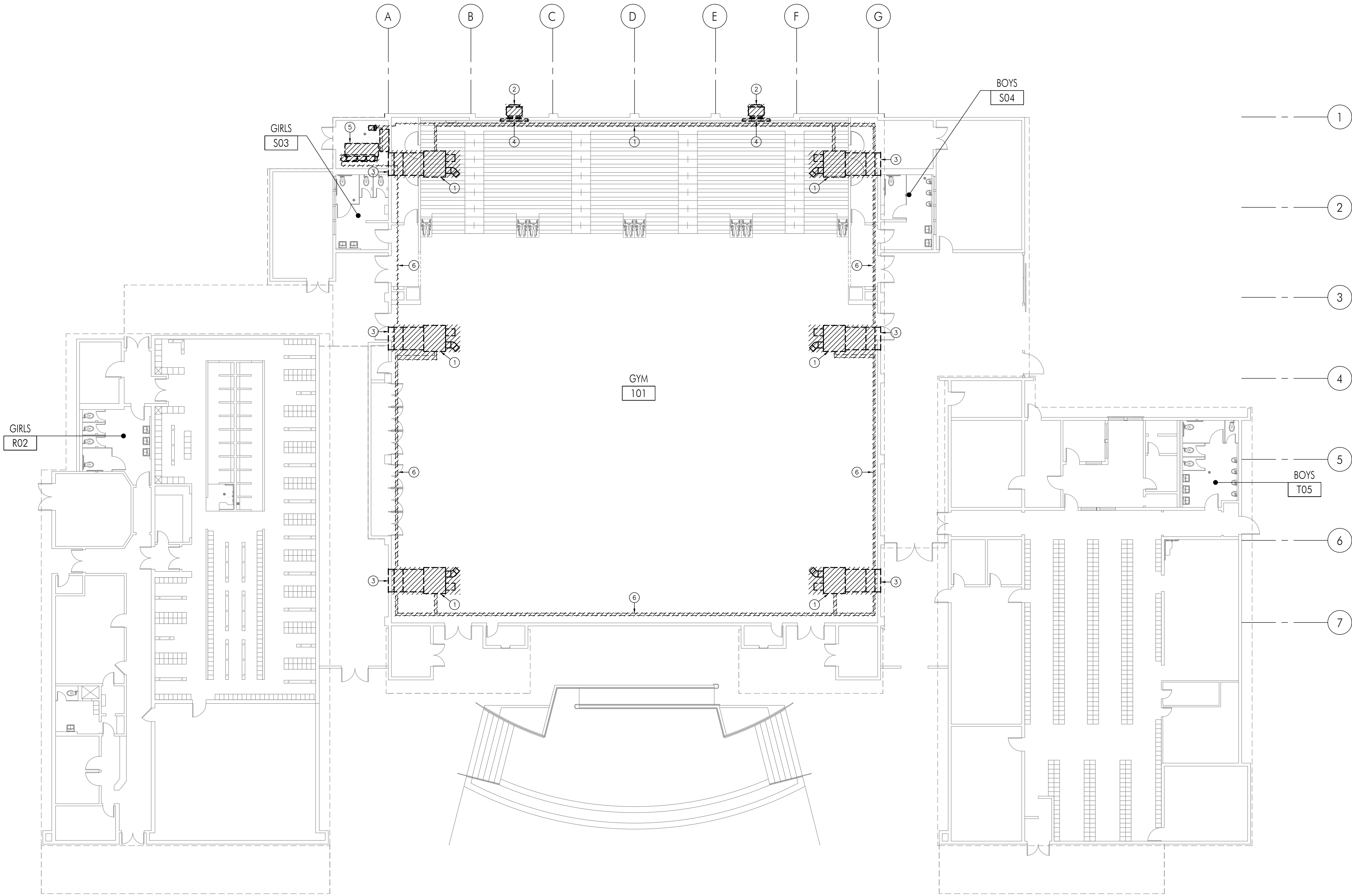
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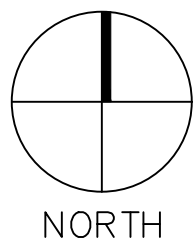


**DEMOLITION KEYNOTES:**

- 1 DEMO AND REMOVE EXISTING HEATING VENTILATING UNIT AND ALL ASSOCIATED DUCTWORK, WIRING, CONTROLS, HYDRONIC PIPING, ETC.
- 2 DEMO AND REMOVE EXISTING WALL MOUNTED EXHAUST FAN.
- 3 EXISTING EXTERIOR LOUVER TO REMAIN AND BE REUSED.
- 4 DEMO AND REMOVE EXISTING INTERIOR LOUVER. PATCH AND REPAIR WALL.
- 5 DEMO AND REMOVE EXISTING BOILER, PUMPS, STORAGE TANKS, AND ASSOCIATED FLUE AND PIPING. GAS PIPING TO BE CAPPED.
- 6 DEMO AND REMOVE EXISTING HEATING HOT WATER PIPING.

**DEMOLITION NOTES:**

1. DISTRICT SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL ITEMS TO BE REMOVED. CONTRACTOR SHALL VERIFY ALL SUCH ITEMS WITH DISTRICT PRIOR TO REMOVAL. ALL ITEMS NOT REFUSED BY DISTRICT SHALL BE REMOVED INTACT AND FULLY FUNCTIONAL BY CONTRACTOR AND RETURNED TO DISTRICT. ALL ITEMS REFUSED BY DISTRICT SHALL BE PROPERLY DISPOSED OF BY CONTRACTOR.
2. CONTRACTOR SHALL RE-USE EXISTING OPENINGS IN WALLS AND ROOF WHEREVER POSSIBLE. COORDINATE WITH OTHER TRADES AS NECESSARY. GENERAL CONTRACTOR SHALL MODIFY OPENING AS REQUIRED TO ACCOMMODATE NEW MECHANICAL DEVICE.
3. GENERAL CONTRACTOR SHALL PATCH ALL OPENINGS IN WALLS, ROOF, ETC. THAT WILL NOT BE REUSED FOR FUTURE WORK. COORDINATE AS NECESSARY WITH OTHER TRADES.
4. PRIOR TO ANY WORK BEING DONE CONTRACTOR SHALL MAKE A CAREFUL EVALUATION OF THE EXISTING CONDITIONS AND VERIFY ALL METHODS OF REMOVAL AND INSTALLATION OF MECHANICAL EQUIPMENT.
5. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE WORK OF ALL OTHER TRADES.

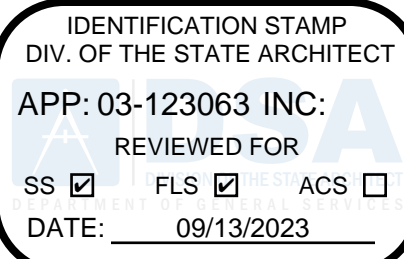


MECHANICAL DEMO PLAN

SCALE  
3/32"=1'-0"

1

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**Gymnasium HVAC Replacement**

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Rosemead, California 91770

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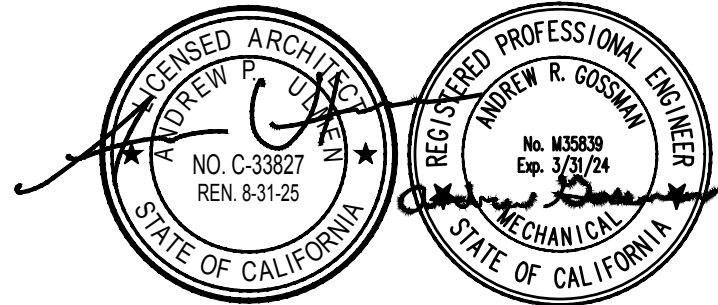
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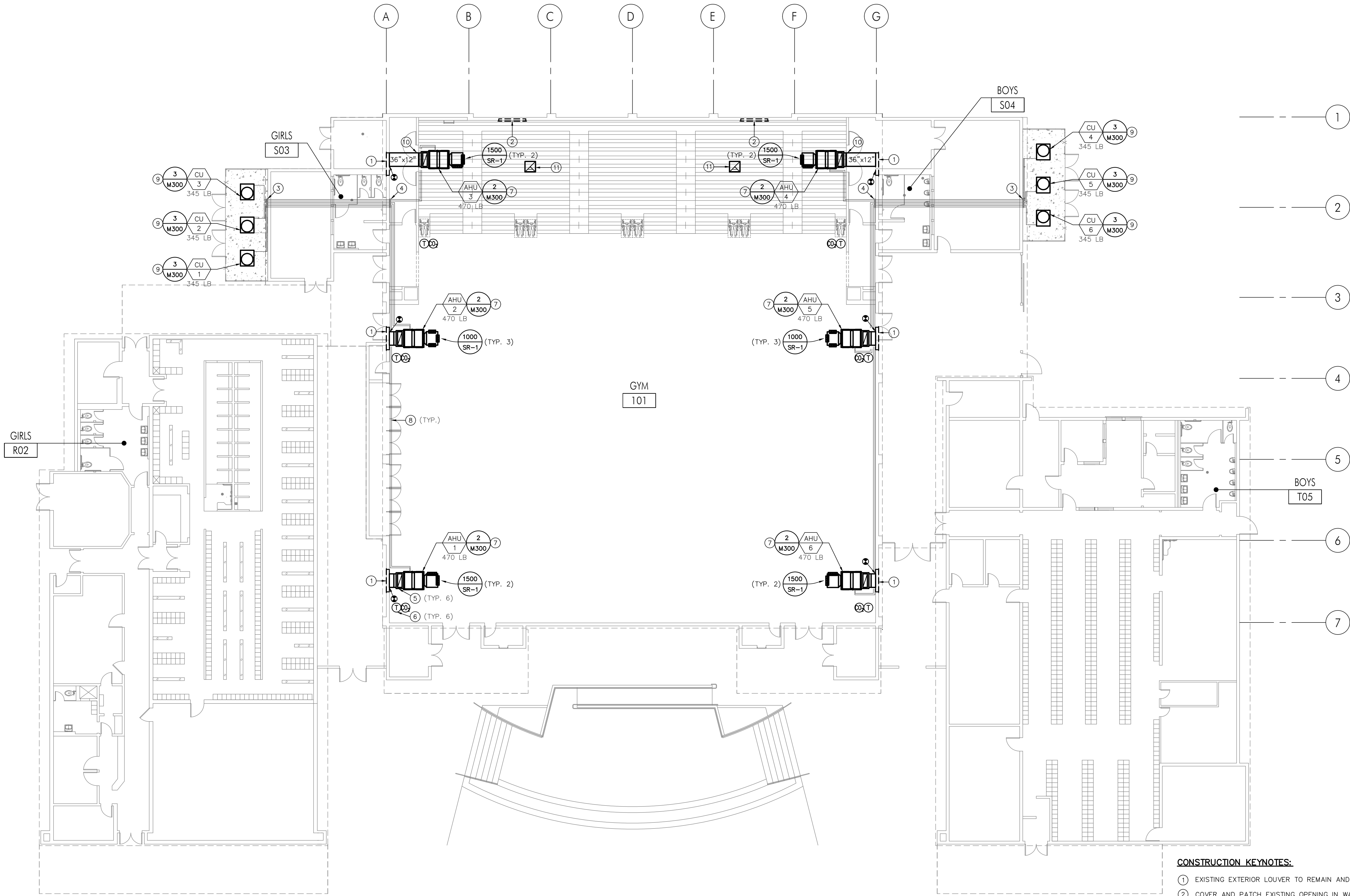
Mechanical  
Demo Plan

Sheet Number

M100



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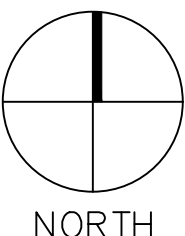


**CONSTRUCTION KEYNOTES:**

- EXISTING EXTERIOR LOUVER TO REMAIN AND BE REUSED.
- COVER AND PATCH EXISTING OPENING IN WALL.
- REFRIGERANT PIPING UP AND THRU WALL BELOW ROOF. ALL REFRIGERANT PIPING TO BE INSULATED. PROVIDE ALUMINUM JACKETING ON EXPOSED REFRIGERANT PIPING.
- REFRIGERANT PIPING UP WALL AS HIGH AS POSSIBLE. ALL REFRIGERANT PIPING TO BE INSULATED. ATTACHMENT TO WALL PER 7/M3.0. PENETRATION THROUGH WALL PER 12/S4
- MIXING BOX TO BE ATTACHED TO END OF FAN COIL W/ RETURN AIR OPENING ON TOP AND OSA OPENING ON BACK.
- PROVIDE VANDAL/IMPACT RESISTANT COVERS ON THERMOSTAT/CO2.
- AHU UNITS AND DUCTS SHALL BE PAINTED BLACK W/ WHITE UNIT ID'S.
- ALL PIPING SHALL BE PAINTED BLACK W/ EXCEPTION TO WALL-MOUNTED PIPING. IF WALL-MOUNTED, PAINT WHITE PER ARCHITECTURAL.
- CONTRACTOR TO PROVIDE CLEAR PAINTED UNIT ID.
- COVER AND PATCH EXISTING OPENING IN WALL AROUND NEW DUCT PER 21/S5.
- 28"x28" EXHAUST DUCT W/ WIRE MESH SCREEN UP TO ROOF.

**CONSTRUCTION NOTES:**

- FIELD VERIFY ALL EXISTING DUCT DIMENSIONS INDICATED PRIOR TO FABRICATION. PROVIDE ALL TRANSITIONS AS REQUIRED TO CONNECT NEW DUCTWORK TO EXISTING.
- COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS.
- CONTRACTOR SHALL VERIFY THE CONDITION OF EXISTING EQUIPMENT, DUCTWORK, ASSOCIATED CONTROLS, AND T-STATS. SHOULD ANY OF THESE ITEMS NOT BE PERFORMING SATISFACTORILY OR MALFUNCTIONING, CONTRACTOR SHALL NOTIFY THE DISTRICT AND PROVIDE PRICE TO ENSURE PROPER OPERATION PRIOR TO COMPLETION OF WORK.
- BEFORE COMMENCEMENT OF WORK, THE MECHANICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF NEW CONSTRUCTION AND NOTIFY THE DISTRICT OF ANY DISCREPANCIES.
- GENERAL CONTRACTOR SHALL PATCH ALL OPENINGS IN WALLS, ROOF, ETC. THAT WILL NOT BE REUSED FOR FUTURE WORK. COORDINATE AS NECESSARY WITH OTHER TRADES.

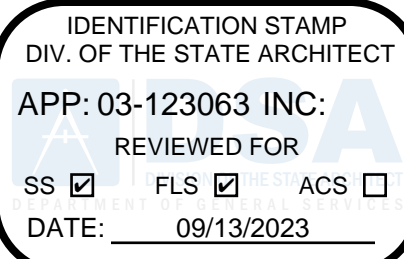


**MECHANICAL FLOOR PLAN**

SCALE  
3/32"=1'-0"

1

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**Gymnasium HVAC Replacement**

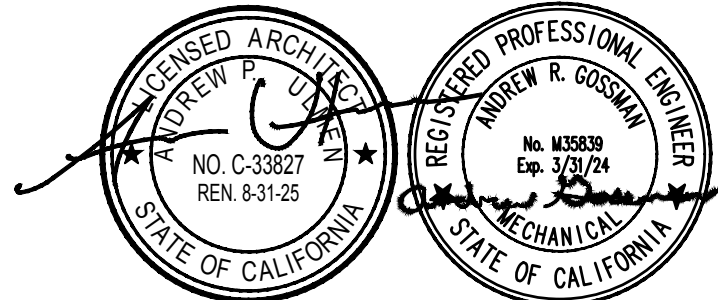
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Sheet Title

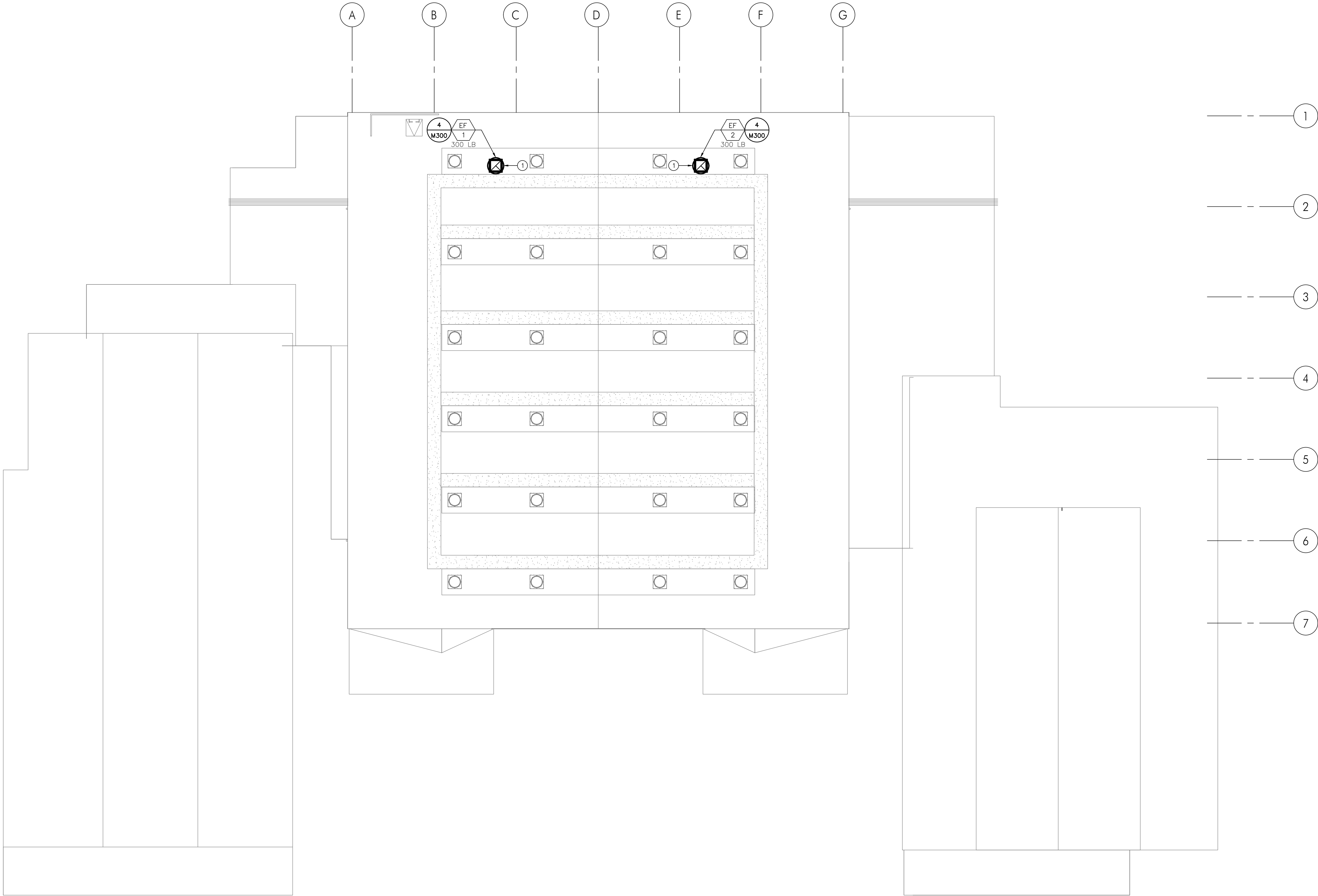
**Mechanical  
Floor Plan**

Sheet Number

**M200**



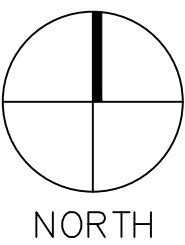
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**CONSTRUCTION KEYNOTES:**

① EXHAUST FAN W/ 28"x28" EXHAUST DUCT DOWN THRU ROOF.

- CONSTRUCTION NOTES:**
1. FIELD VERIFY ALL EXISTING DUCT DIMENSIONS INDICATED PRIOR TO FABRICATION. PROVIDE ALL TRANSITIONS AS REQUIRED TO CONNECT NEW DUCTWORK TO EXISTING.
  2. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
  3. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS.
  4. CONTRACTOR SHALL VERIFY THE CONDITION OF EXISTING EQUIPMENT, DUCTWORK, ASSOCIATED CONTROLS, AND T-STATS. SHOULD ANY OF THESE ITEMS NOT BE PERFORMING SATISFACTORILY OR MALFUNCTIONING, CONTRACTOR SHALL NOTIFY THE DISTRICT AND PROVIDE PRICE TO ENSURE PROPER OPERATION PRIOR TO COMPLETION OF WORK.
  5. BEFORE COMMENCEMENT OF WORK, THE MECHANICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF NEW CONSTRUCTION AND NOTIFY THE DISTRICT OF ANY DISCREPANCIES.
  6. GENERAL CONTRACTOR SHALL PATCH ALL OPENINGS IN WALLS, ROOF, ETC. THAT WILL NOT BE REUSED FOR FUTURE WORK. COORDINATE AS NECESSARY WITH OTHER TRADES.

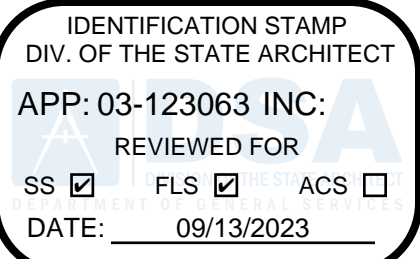


MECHANICAL FLOOR PLAN

SCALE  
3/32"=1'-0"

1

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Gymnasium HVAC Replacement

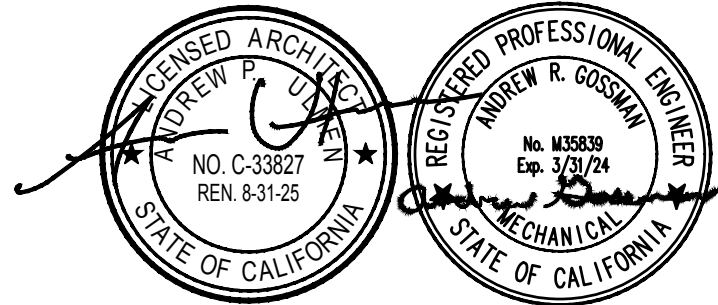
Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev	Date	Issue
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09.08.23	09.08.23	DSA BACKCHECK

Date: 08.18.2023  
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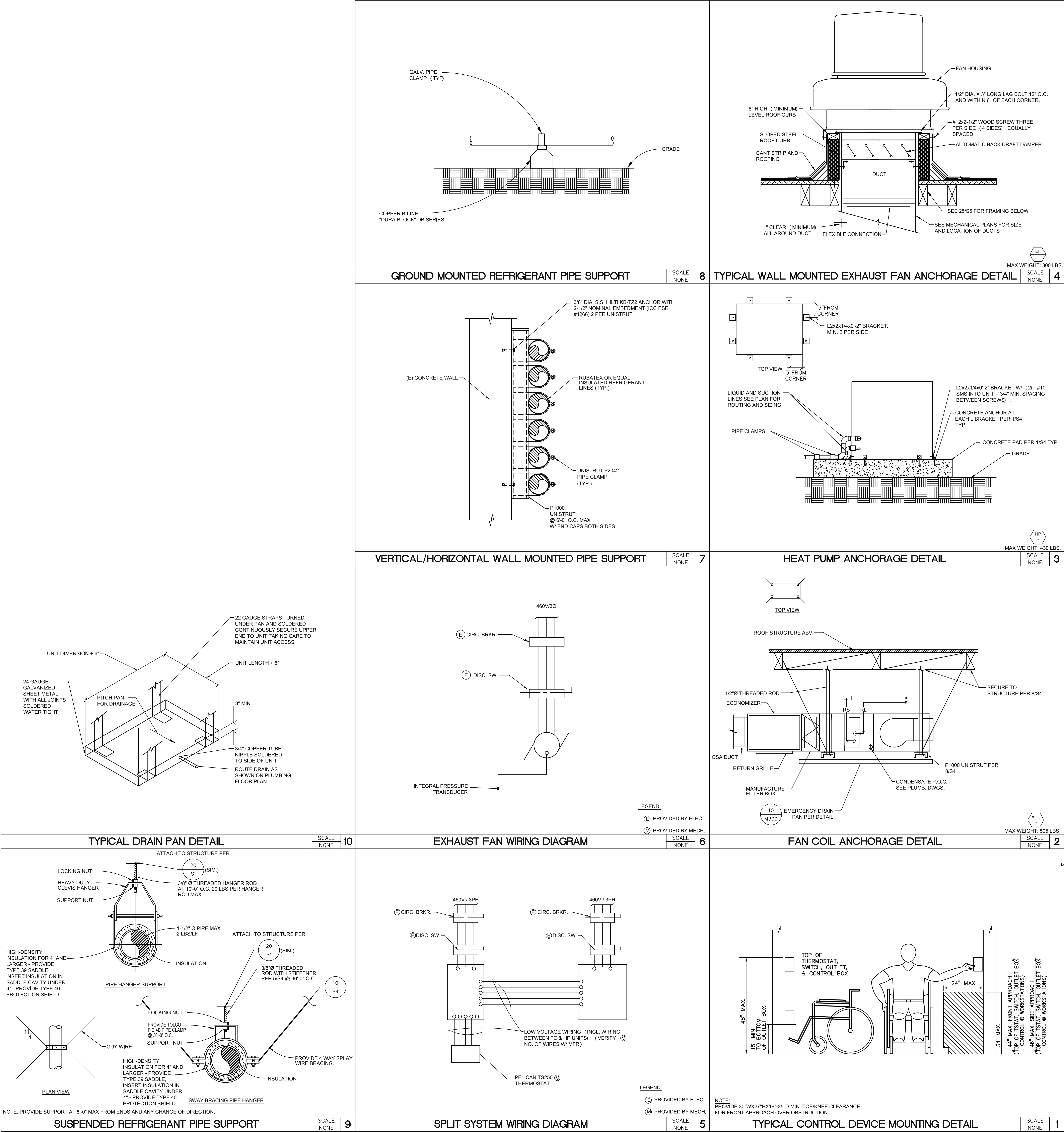
Mechanical  
Roof Plan

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**RACHLIN**  
PARTNERS  
8540 National Boulevard  
Culver City, CA 90232  
310.204.3400

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PROFESSIONAL ARCHITECT  
NO. C-33827  
REN 8/31/25  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL MECHANICAL ENGINEER  
NO. 88293  
EX-3/2/74  
STATE OF CALIFORNIA

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Sheet Title  
Mechanical  
Details

Sheet Number

M300



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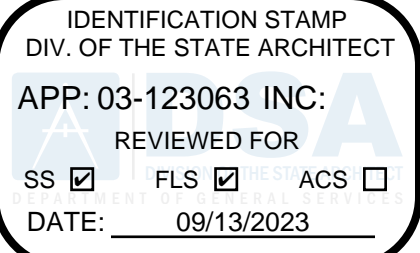
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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance      Report Version: 2022.0.000      Report Generated: 2023-02-20 10:52:55  
Schema Version: rev 20220601



CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E
Nonresidential Performance Compliance Method		(Page 14 of 14)
Documentation Author's Declaration Statement		
1. I certify that this Certificate of Compliance documentation is accurate and complete.		
Documentation Author Name: Ted Lim	Documentation Author Signature: <i>Ted Lim</i>	
Company: Poscock Design Solutions	Signature Date: 02/20/23	
Address: 14451 Chambers Rd. Ste 210	CEA/HERS Certification Identification (if applicable):	
City/State/Zip: Tustin, CA 92780	Phone: 949-417-3903	
Responsible Person's Declaration statement		
I certify the following under penalty of perjury, under the laws of the State of California:		
1. The information provided on this Certificate of Compliance is true and correct.		
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).		
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.		
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.		
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.		
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.		
Responsible Designer Name: Richard M. Ingrassia	Responsible Designer Signature:	
Company: Rachlin Partners		
Address: 8540 National Boulevard	Date Signed:	
City/State/Zip: Culver City, CA 90232	License #: C-26229	
Phone: 3102943400	Title:	Scope:
Responsible Designer Name: Andrew Gosman	Responsible Designer Signature:	
Company: Poscock Design Solutions		
Address: 14451 Chambers Rd. Ste 210	Date Signed: 02/20/23	
City/State/Zip: Tustin, CA 92780	License #: M35839	
Phone: 949-417-3903	Title:	Scope:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance      Report Version: 2022.0.000      Report Generated: 2023-02-20 10:52:55 Schema Version: rev 20220601		

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PHF-E
Nonresidential Performance Compliance Method		(Page 13 of 14)
N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION		
Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.		
There are no Certificates of Verification applicable to this project.		



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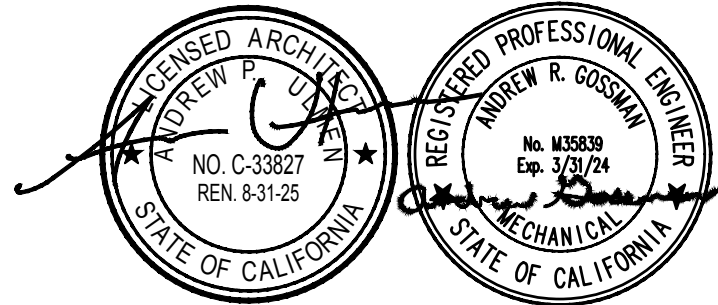
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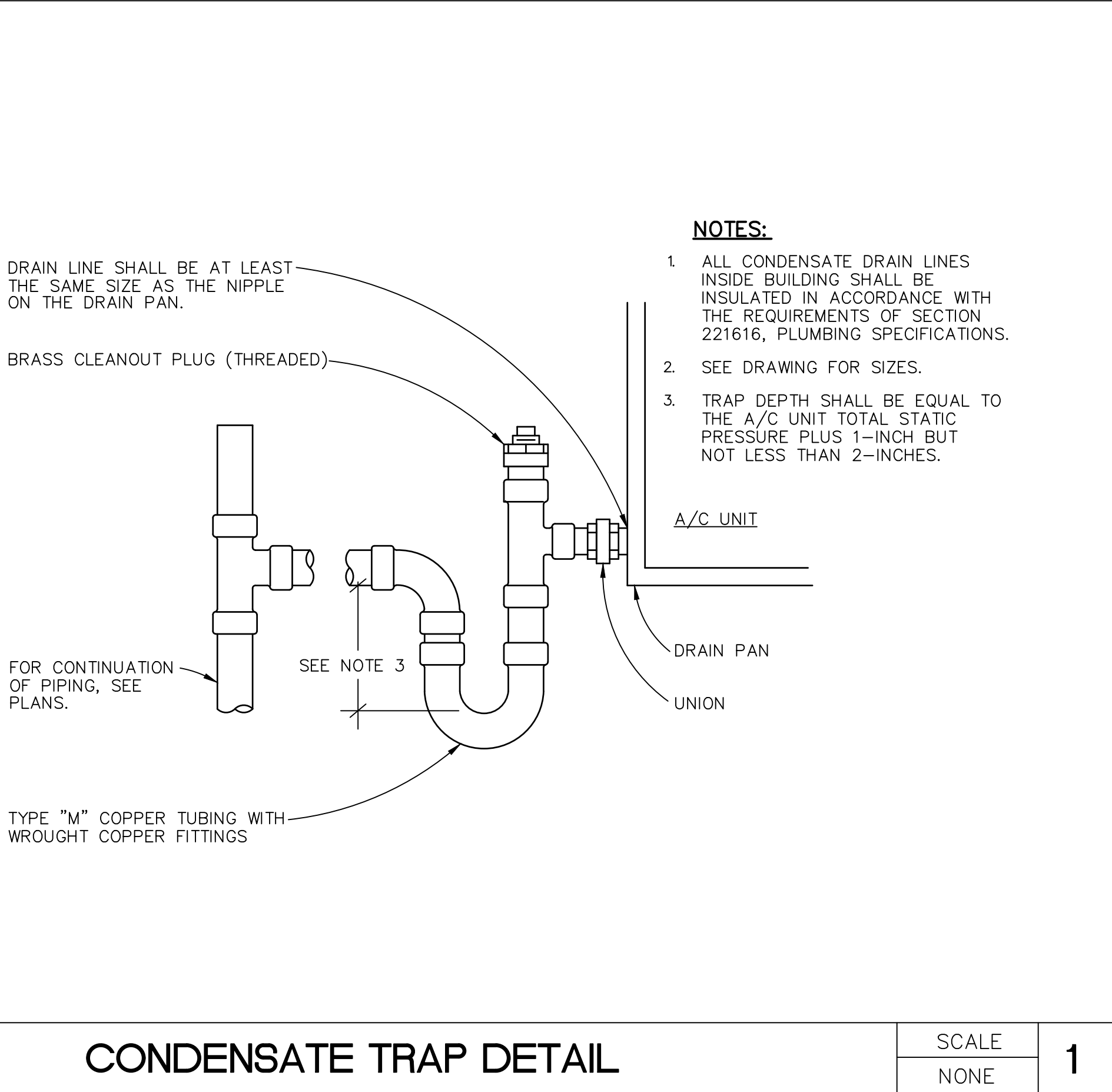
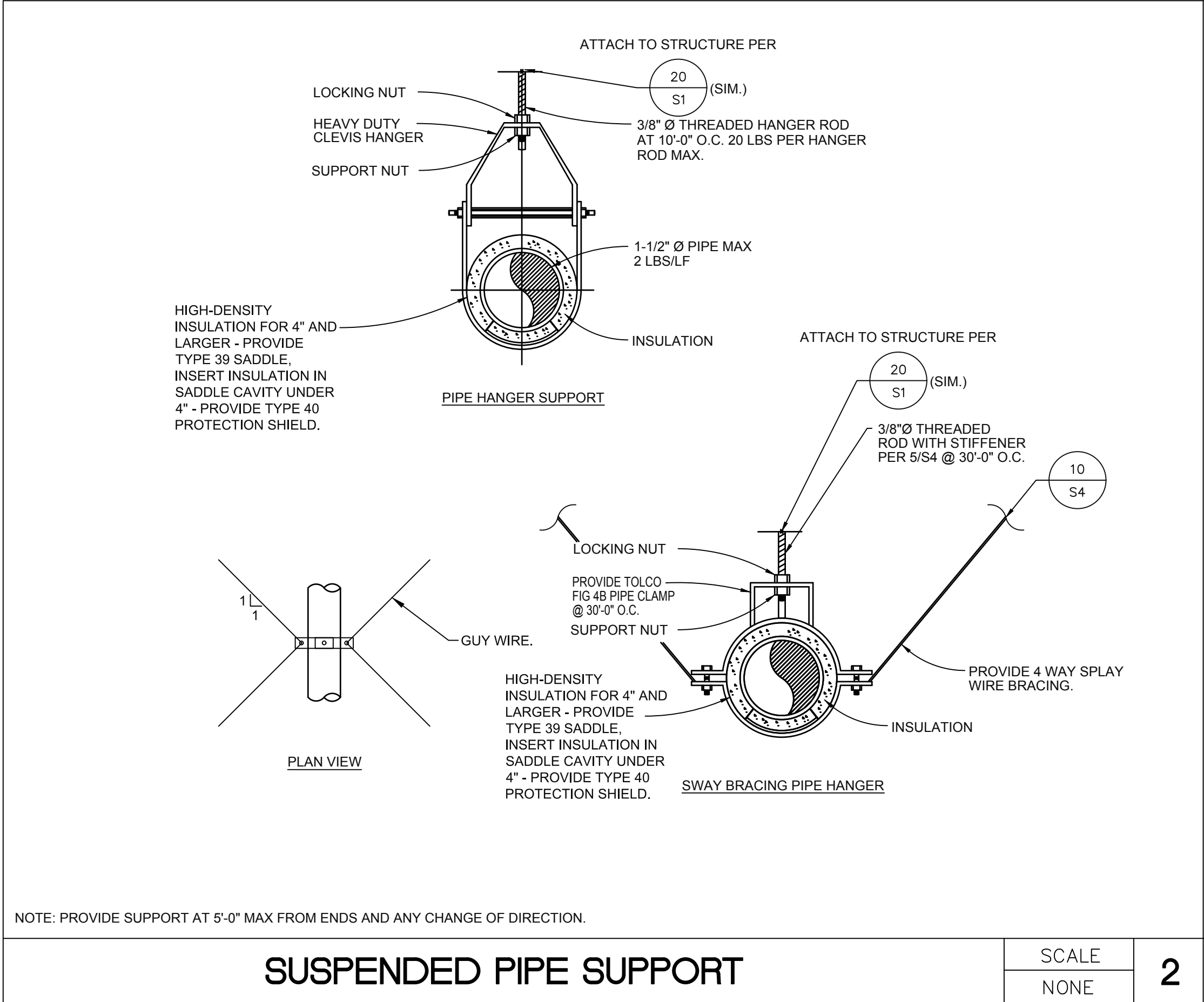
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Sheet Title  
Title 24

Sheet Number

M401

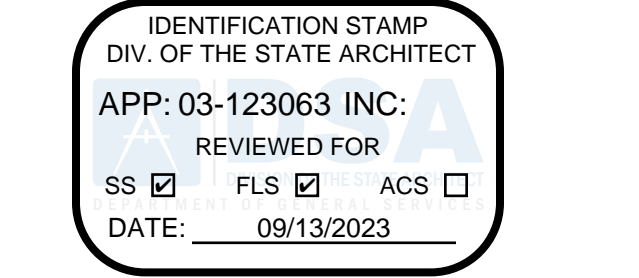




FIXTURE SCHEDULE									
ITEM	FIXTURE	ROUGH-IN CONNECTIONS						DESCRIPTION	
		TRAP	WASTE	VENT	HOT WATER	COLD WATER	GAS		
TP 1	TRAP PRIMER (SINGLE DRAIN)	--	--	--	--	1/2"	--	MIFAB NO. MR-500 TRAP PRIMER VALVE, BRASS BODY, ADJUSTABLE, COMPLETE WITH 1/2" COPPER TYPE "L" PIPE TO RECEPTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, COMPLETE BEHIND ACCESS PANEL WITH SHUT-OFF VALVE.	
FS 1	FLOOR SINK	2"	2"	1-1/2"	--	--	--	ZURN NO. ZN1901-KC-P-2, 12" X 12" X 8" DEEP, CAST IRON BODY, ACID-RESISTING ENAMELED INTERIOR, COMPLETE WITH DOME STRAINER, NICKEL-BRONZE HALF GRATE, SEEPAGE FLANGE, TRAP PRIMER CONNECTION AND P-TRAP.	
HB 1	HOSE BIBB (WALL)	--	--	--	--	3/4"	--	ACORN NO. 8121-CP "BENT NOSE WITH FLANGE" HOSE BIBB, WALL MOUNTED, CHROME-PLATED POLISHED, WITH INTEGRAL VACUUM BREAKER, LOOSE KEY OPERATION.	

GENERAL NOTES									
<p>1. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES AND PIPING, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.</p> <p>2. ALL ACCESSIBLE WATER CLOSETS SHALL HAVE FLUSH VALVE WITH HANDLE ON OPEN SIDE.</p> <p>3. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.</p> <p>4. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.</p> <p>5. CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A TWELVE INCH (12") SECTION OF RED BRASS PIPE.</p> <p>6. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. ALL URINALS SHALL HAVE CLEANOUTS ABOVE FIXTURE, CPC 707.4. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.</p> <p>7. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS. INSULATE ALL EXPOSED HOT WATER AND DRAIN PIPING BELOW ACCESSIBLE LAVATORIES AND SINKS.</p> <p>8. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.</p> <p>9. ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH CALIFORNIA PLUMBING CODE 2019.</p> <p>10. ANY ALTERATIONS TO A STRUCTURAL MEMBER, SUCH AS CUTTING, BORING, BRAZING, DRILLING, WELDING, ETC. SHALL HAVE PRIOR WRITTEN APPROVAL OF ARCHITECT, STRUCTURAL ENGINEER AND DSA.</p> <p>11. M.E.P. COMPONENT ANCHORAGE NOTE:</p> <p>ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS, WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.</p> <p>1. ALL PERMANENT EQUIPMENT AND COMPONENTS.</p> <p>2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.</p> <p>3. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.</p> <p>THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REVERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENTS IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:</p> <p>A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.</p> <p>B. COMPONENTS WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.</p> <p>THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE THE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE THE DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.</p> <p>12. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:</p> <p>PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCE AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3, AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC SECTIONS 1617A.1.24, 1617A.1.25, AND 1616A.1.26.</p> <p>THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2019 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.</p> <p>MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):</p> <p>MP [ ] MD [ ] PP [X] E [ ] - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.</p> <p>MP [ ] MD [ ] PP [ ] E [ ] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0043-13.</p>									

LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
---	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
---	V	SANITARY VENT
---	CW	COLD WATER
---	CD	CONDENSATE DRAIN
---	OC	OVERFLOW CONDENSATE DRAIN
---	ESS	EXISTING SANITARY SEWER
---	EV	EXISTING SANITARY VENT
---	ECW	EXISTING COLD WATER
---		RISER UP
---		RISER DOWN
---	ABV	ABOVE
---	AP	ACCESS PANEL
---	BEL	BELOW
---	CLG	CEILING
---	CONT	CONTINUATION
---	DN	DOWN
---	EXIST	EXISTING
---	FLR	FLOOR
---	POC	POINT OF CONNECTION
---	PLCS	PLACES
---	VTR	VENT THRU ROOF



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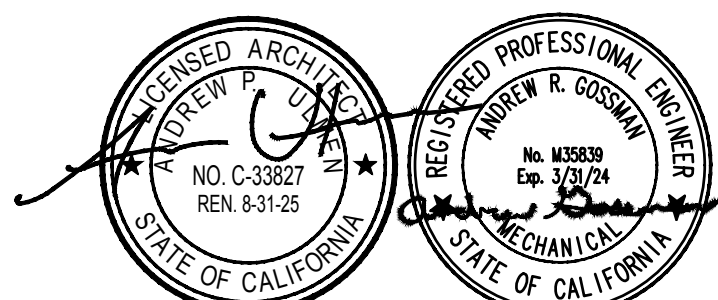
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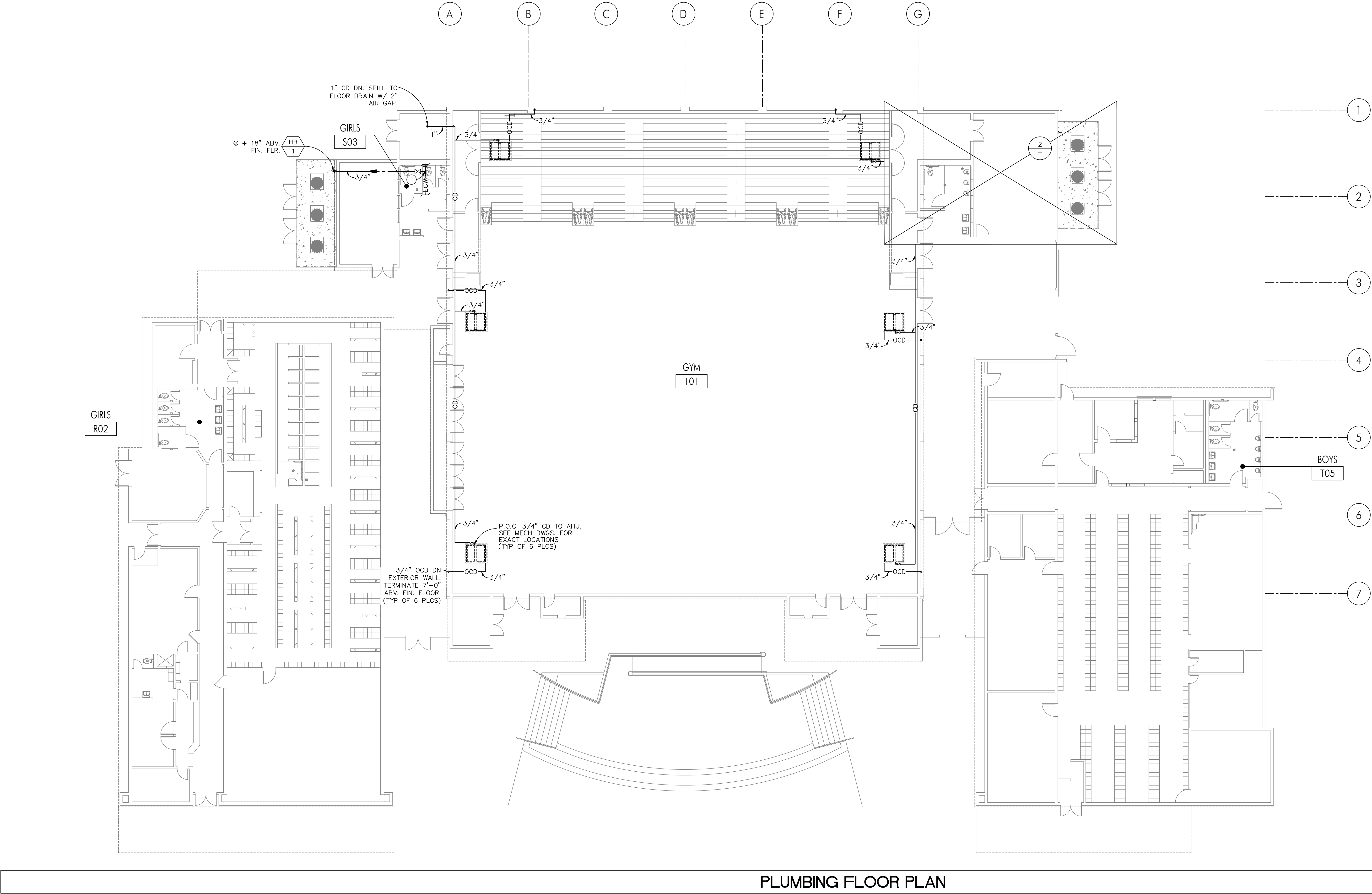
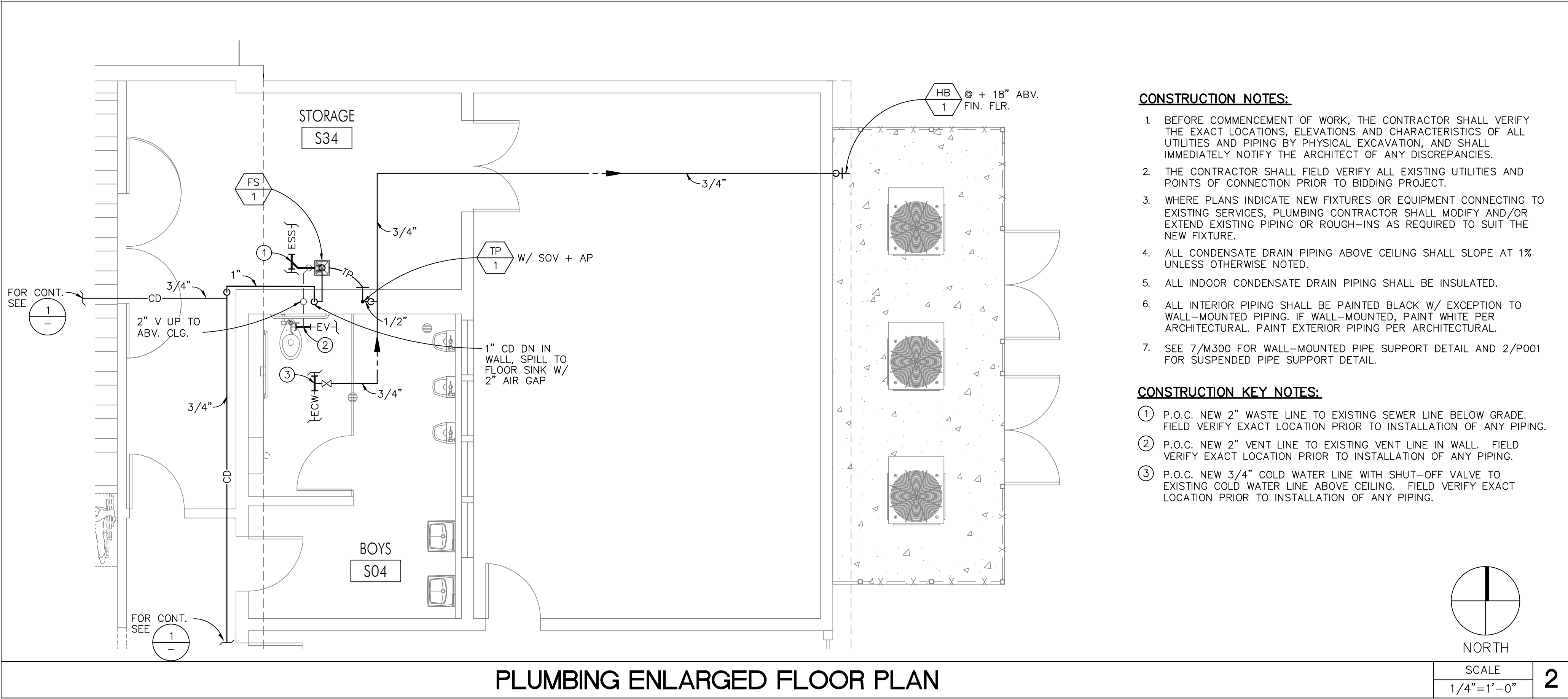
Plumbing  
Gen. Notes,  
Legend, and  
Schedule

Sheet Number

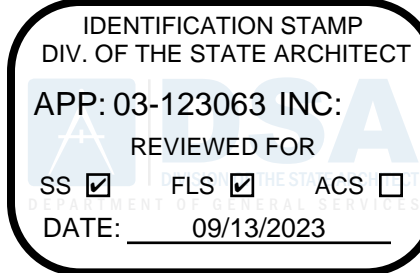
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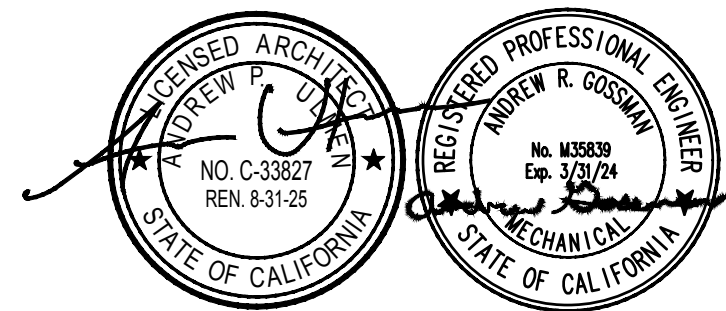
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Plumbing  
Floor Plan

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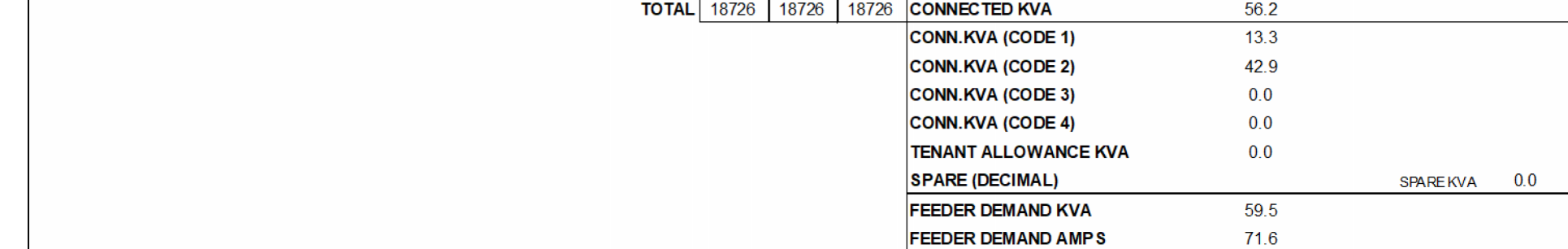
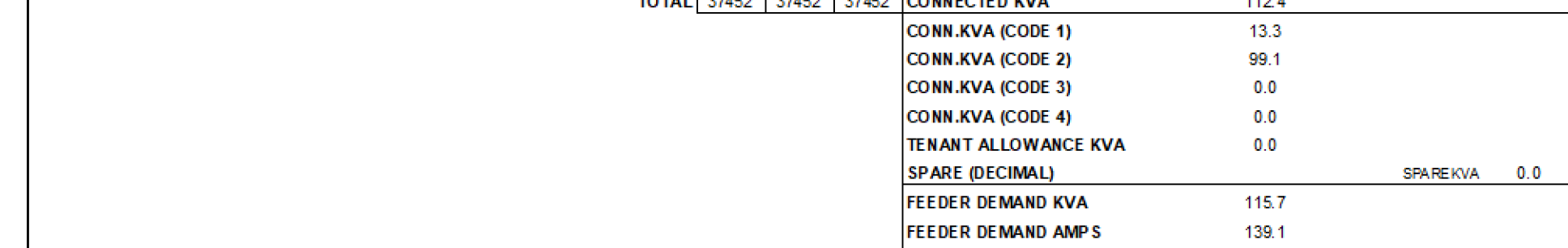




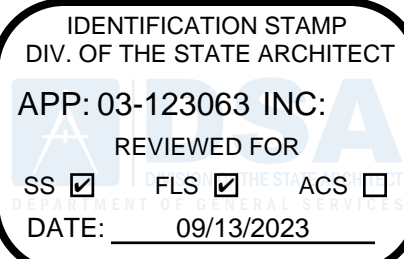
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E002







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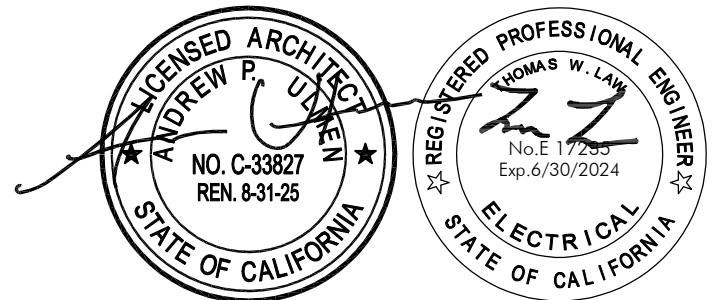
Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev	Date	Issue
03.06.23	03.06.23	DSA SUBMITTAL
09.08.23	09.08.23	DSA BACKCHECK

Date: 08.18.2023  
Scale: As Shown  
Drawn By: TL  
Checked By: BA

Architect / Engineer Stamp



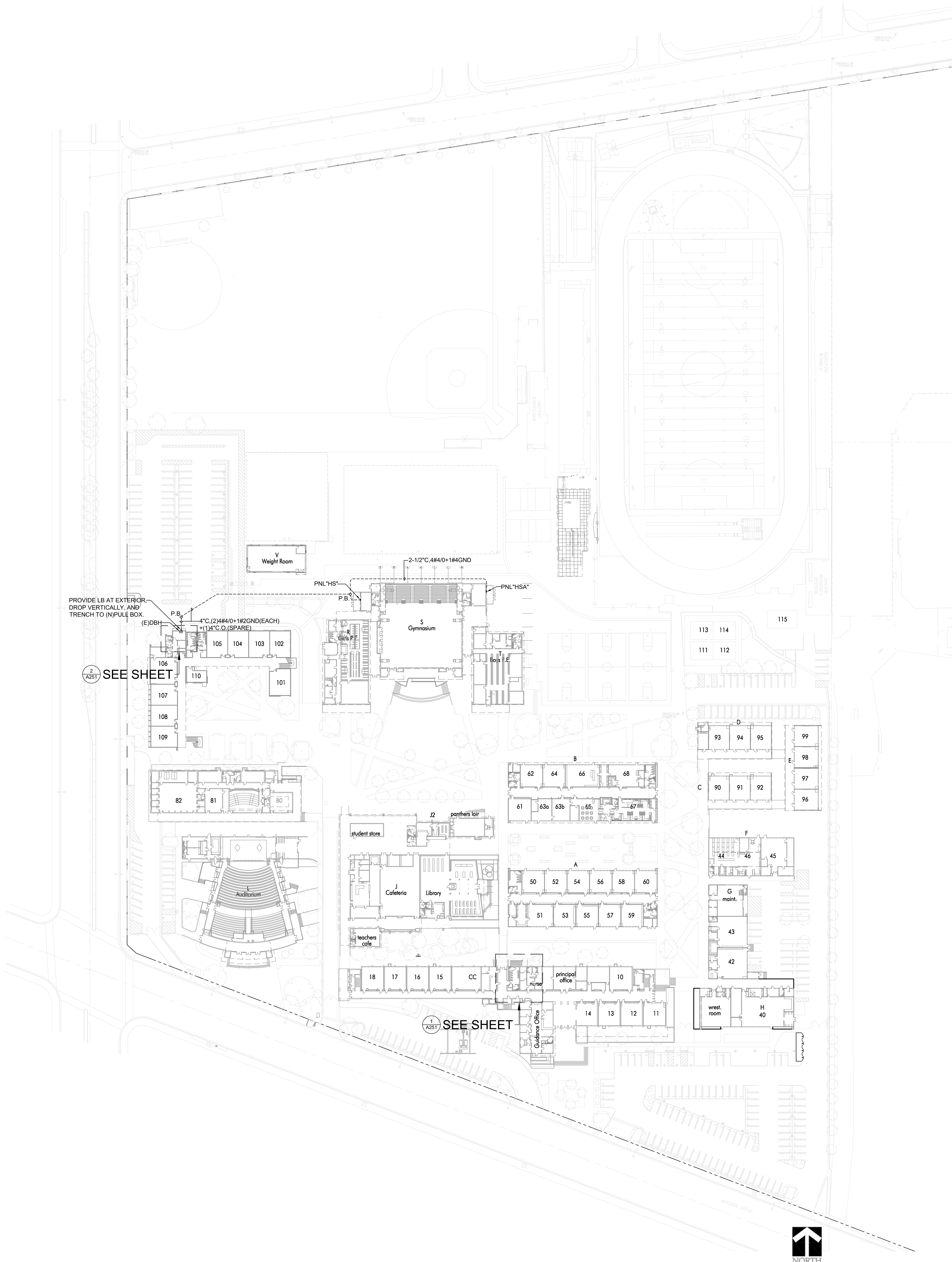
Consultants

Sheet Title

Electrical  
Site Plan

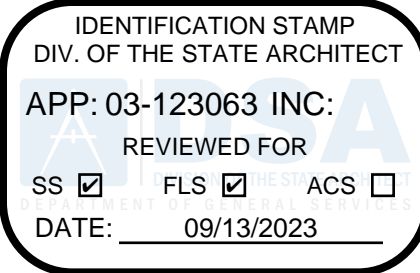
Sheet Number

E101



SCALE: 1"=60'-0"





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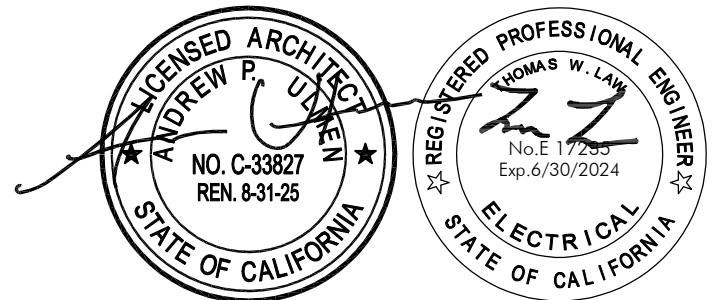
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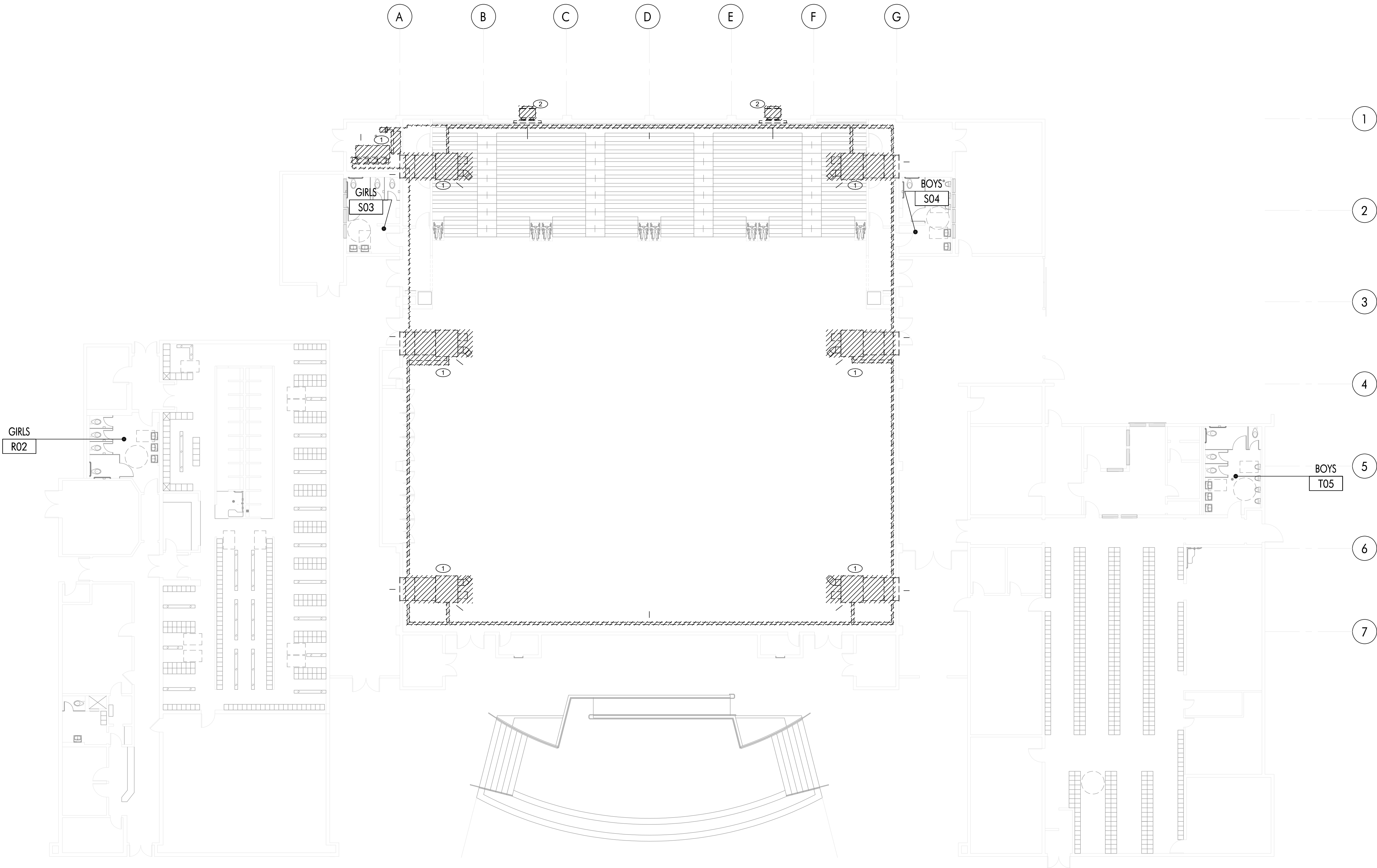
Consultants

Sheet Title

Building 'R' 'S' 'T'  
Electrical Demolition  
Plan

Sheet Number

E111

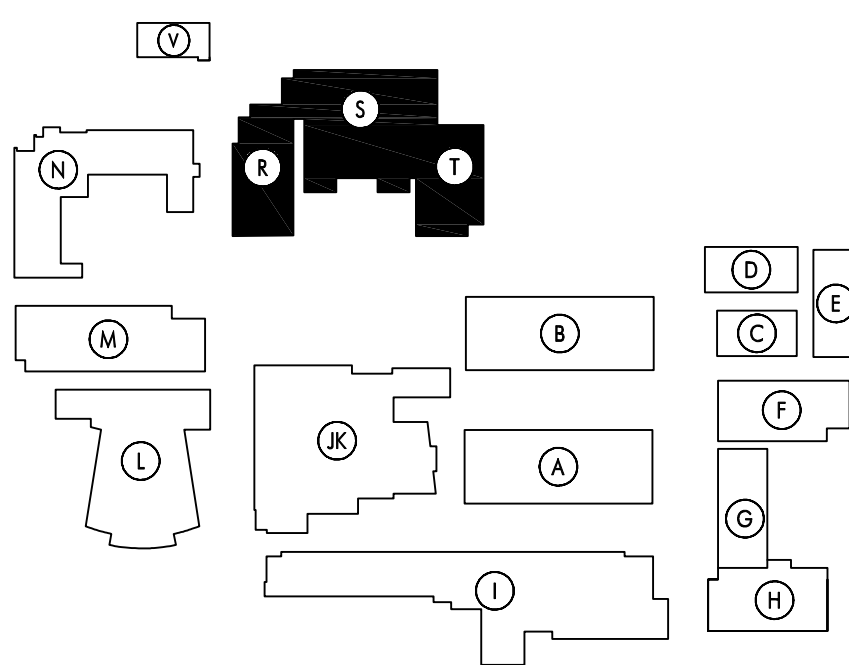


1 BUILDING 'R' 'S' 'T' - ELECTRICAL PLAN



SCALE: 3/32"=1'-0"

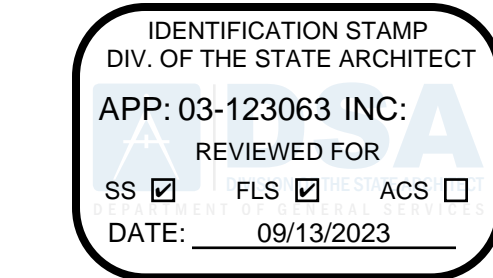
KEYPLAN



REFERENCE NOTES

- 1 DEMO AND REMOVE ALL ELECTRICAL DEVICES ASSOCIATED WITH HEATING VENTILATION UNIT. REMOVE CONDUIT AND WIRING BACK TO PANEL, AND LABEL BREAKER AS SPARE.
- 2 DEMO AND REMOVE ALL ELECTRICAL DEVICES ASSOCIATED WITH EXHAUST FAN. REMOVE CONDUIT AND WIRING BACK TO PANEL, AND LABEL BREAKER AS SPARE.



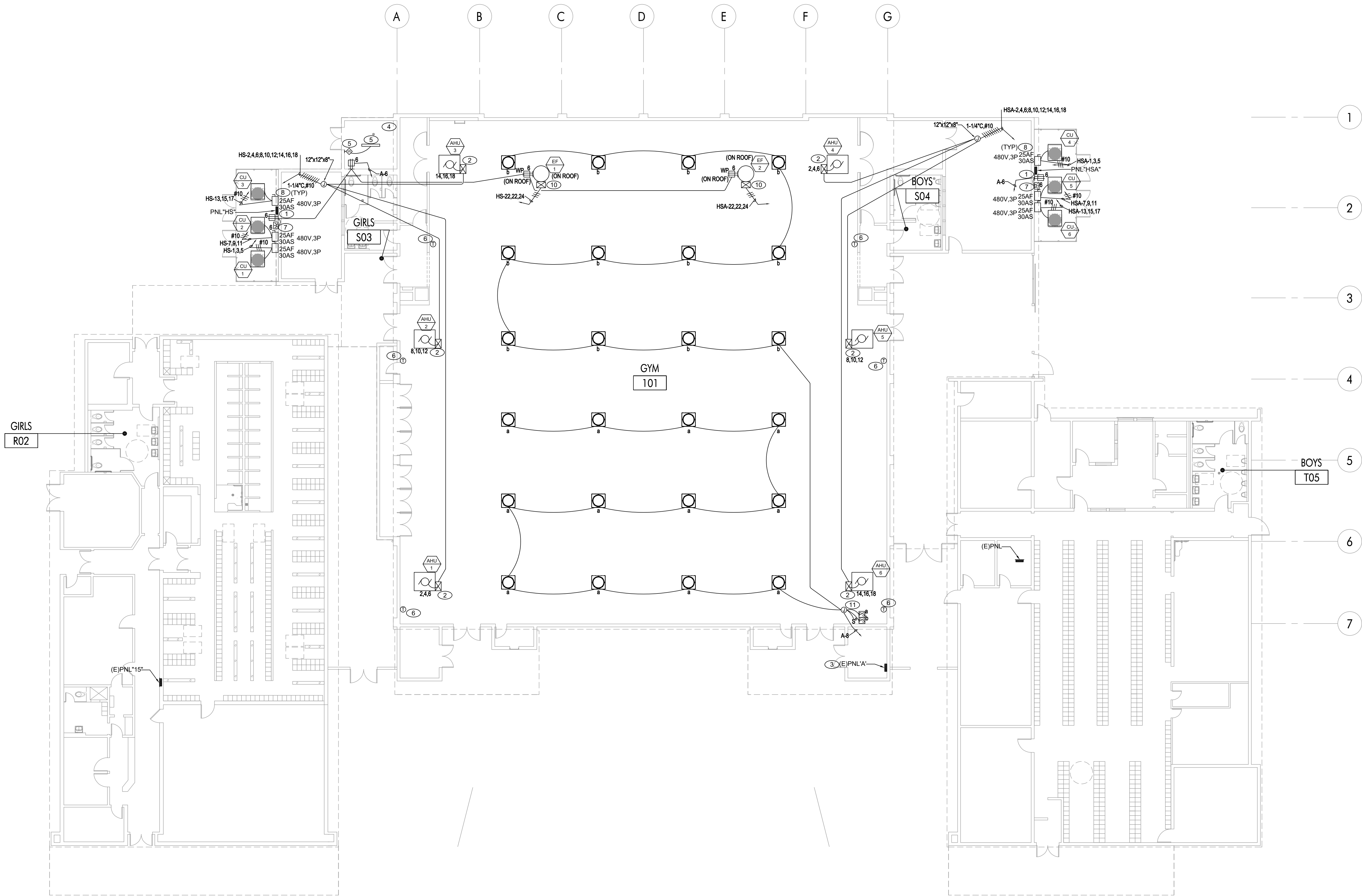


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1 BUILDING 'R' 'S' 'T' - ELECTRICAL PLAN

SCALE: 3/32"=1'-0"

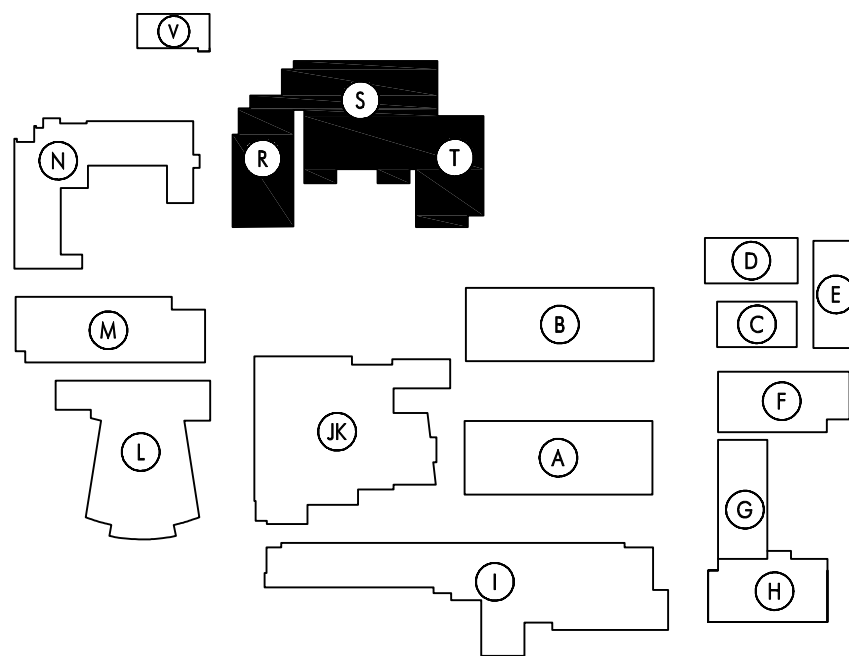
REFERENCE NOTES

1. PROVIDE WEATHER RESISTANT, GFI PROTECTED RECEPTACLE, IN WEATHERPROOF ENCLOSURE, LISTED/IDENTIFIED AS "EXTRA DUTY" COVER.
2. PROVIDE MANUAL STARTER/SWITCH, SQUARE D #2510MCA3, SIZE M-1, WITH THERMAL MELTING ALLOY OIL (SIZED PER NAME PLATE DATA OF AHU UNIT), NOINC CONTACT AUXILIARY CONTACT.
3. PROVIDE (2)20A, 1P BREAKER AT PANEL A-6,8 TO MATCH EXISTING BY TYPE, STYLE, AND AIC RATING FOR CONNECTION TO NEW EXTERIOR RECEPTACLES, AND SOLATUBE DIMMERS.
4. REMOVE AND DISCONNECT ALL ELECTRICAL EQUIPMENT/WIRING ASSOCIATED WITH DEMO'D BOILER.
5. REPLACE (E)LIGHT FIXTURE WITH NEW, LITHONIA #ICLX-L48-4000LM SEF-WDL-WD-MVOLT GZ10 40K 80CRI WH, AND REPLACE (E)LIGHT SWITCH WITH NEW, SENSORSWITCH #WSX-WH), AND RECONNECT WIRING.
6. PROVIDE 3/4" C.O. FROM THERMOSTAT TO AHU UNIT, AND 3/4" C.O. BETWEEN CU AND AHU FOR CONTROL WIRING. SEE DETAILS ON SHEET M300.
7. PROVIDE WALL MOUNTED LIGHT FIXTURE, LITHONIA #TWX1-ALO-40K-MVOLT-PE-DOBXD (WITH PHOTOCCELL SHIELD OPTION), MOUNTED AT +80" AFF.
8. DISCONNECT SWITCH TO BE LOCKABLE, IN ON POSITION, WALL MOUNTED AT +60" AFF.
9. PROVIDE 8"x8" (LENGTH AS REQUIRED) WIREWAY, MOUNT AT INTERIOR BENEATH EXISTING LOUVERS, FOR CONNECTION TO EXTERIOR EXHAUST FAN MANUAL STARTERS.
10. PROVIDE MANUAL STARTER, SQUARE D #2510MBW12 (NEMA 4/4X), WITH THERMAL MELTING ALLOY OIL (SIZED PER NAME PLATE DATA OF EXHAUST FAN), NOINC CONTACT AUXILIARY CONTACT, MOUNTED AT EXHAUST FAN.
11. PROVIDE SOLATUBE DIMMING SYSTEM WITH (2)24V, 96VA ACCESSORY TRANSFORMERS (IN NEMA 1 ENCLOSURE), AND 0-10V DIMMER SWITCH (LUTRON DIVA #DVT-VH, WITH PROTECTIVE COVER, GRANGER #STI-4519). PROVIDE 4-WIRE 16AWG STRANDED, ALPHA CABLE #M3229, (0-10V & 24VAC POWER) FOR EACH TRANSFORMER, STRAP WIRING TO CEILING AND PROVIDE CONNECTION FROM UNDER SIDE OF CEILING TO SOLA TUBE. 0-10V CABLING TO BE SPLICED AT JUNCTION BOX FOR 2-ZONE CONTROL. SEE DETAIL 9E402 FOR TYPICAL WIRING DIAGRAM. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ARCHITECTURAL DRAWINGS.

GENERAL NOTES

1. CONDUIT ROUTING IS DIAGRAMMATIC REPRESENTATION ONLY. ROUTE CONDUITS TO SUIT FIELD CONDITIONS. TYPICAL FOR ENTIRE PROJECT. ROUTE CONDUITS AT UNDERSIDE OF ROOF FOR ROOFTOP EQUIPMENT, AND PENETRATE ROOF AT EQUIPMENT LOCATION. COORDINATE LOCATIONS.
2. REFER TO HVAC DRAWINGS FOR CONTROL WIRING DIAGRAMS AND PROVIDE CONDUIT, WIRING AND DEVICES TO BE PROVIDED BY DIVISION 28-ELECTRICAL SCOPE. TYPICAL FOR ENTIRE PROJECT.
3. ALL EXTERIOR EQUIPMENT TO BE NEMA-3R RATED.
4. COORDINATE LOCATION FOR EQUIPMENT POINTS OF CONNECTION/DISCONNECT SWITCHES. MAINTAIN ALL CODE REQUIRED CLEARANCES. NO GAS OR CONDENSATE LINE SHALL BE RUN IN EQUIPMENT SPACE IN FRONT OF DISCONNECTS SWITCHES. COORDINATE LOCATION WITH MECHANICAL AND PLUMBING PIPING DRAWINGS.
5. REFER TO MECHANICAL DRAWINGS AND CONTROL WIRING DIAGRAMS AND PROVIDE ALL REQUIRED POWER, STARTERS, RELAYS, AND CONTROL DEVICES.
6. FINAL EQUIPMENT CONNECTIONS TO ALL HVAC EQUIPMENT SHALL BE MADE WITH SEAL TIGHT FLEX CONDUIT.
7. INSIDE GYM, ALL ELECTRICAL RACEWAYS BELOW 13'-2" TO BE WIREMOLD. ALL EXPOSED CONDUIT TO BE COMBINED ON UNISTRUT MOUNT, PER MECHANICAL DETAIL 7/M300.

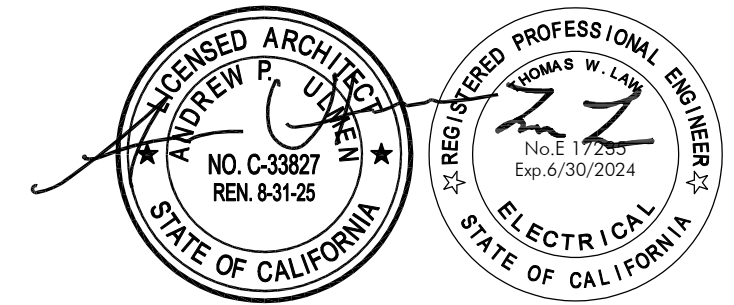
KEYPLAN



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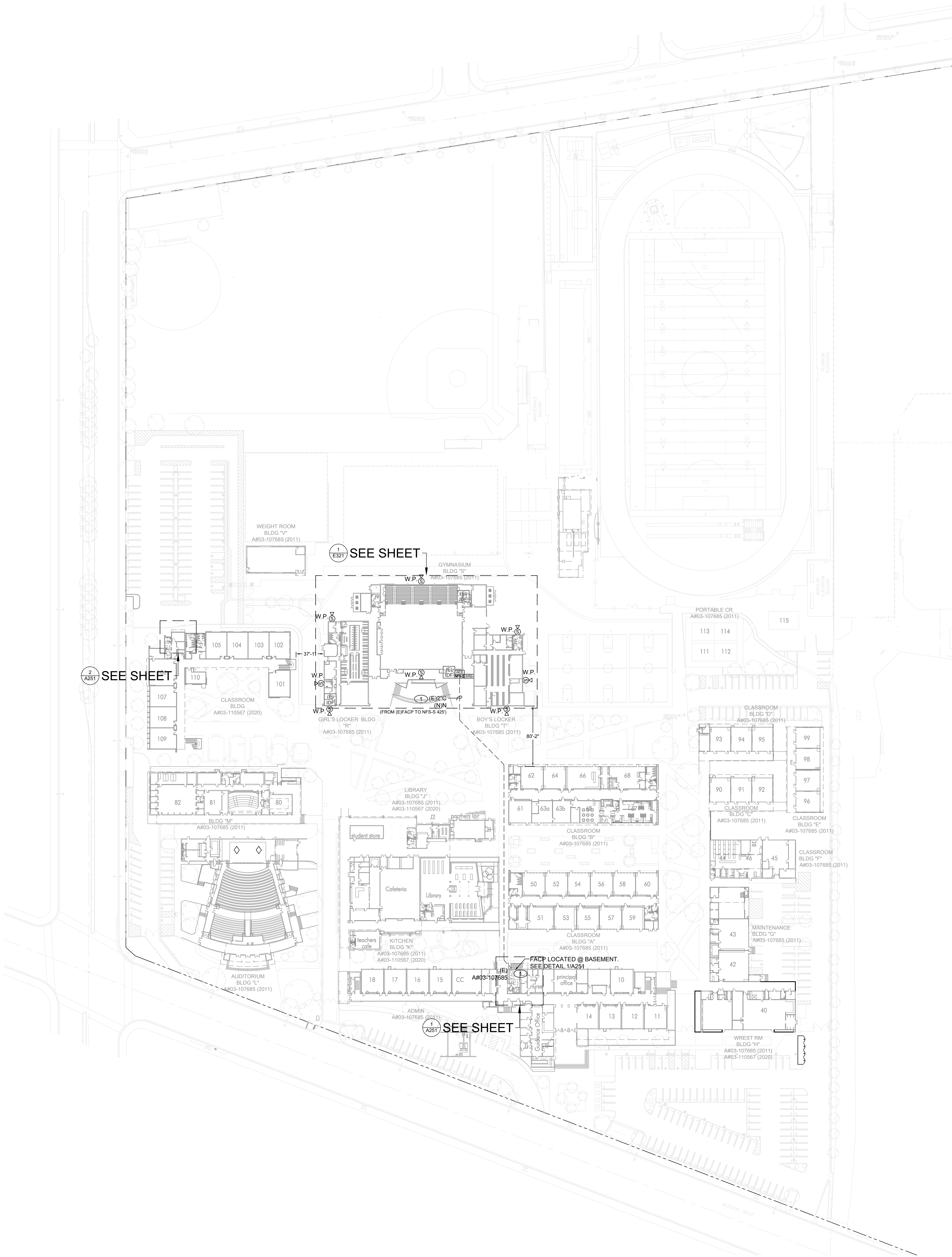
Consultants

Sheet Title  
**Building 'R' 'S' 'T'**  
**Electrical Plan**

Sheet Number

E211





FIRE ALARM SITE PLAN

SCALE  
1" = 60'-0"

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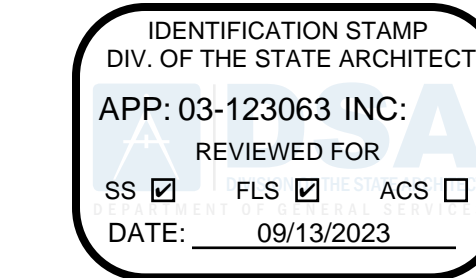
GENERAL NOTES

1. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL BE IN COMPLIANCE WITH CFC 2022, CHAPTER 9, 11 AND 33 & CBC 2022, CHAPTER 33.
  - EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN SERVICE, UNIMPAIRED, AT ALL TIMES DURING CONSTRUCTION, UNLESS UNDER FIRE WATCH.
  - PROVIDE FIRE WATCH UNTIL THE NEW SYSTEM IS IN OPERATION AND APPROVED BY I.O.R., DSA (IR F-2), LOCAL FIRE AUTHORITY, AND DISTRICT.
  - PROVIDE FIRE WATCH PER CFC 901.7 SYSTEM OUT OF SERVICE, REFER TO SPECIFICATION SECTION 283111B ATTACHMENT B FOR CSFM FIRE WATCH GUIDE LINE.
2. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE EXCAVATING FOR NEW UNDERGROUND UTILITIES. FIELD VERIFY AND COORDINATE PRIOR TO EXCAVATION. ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION IMMEDIATELY WITHOUT INTERRUPTION TO OPERATION OF FACILITIES AT NO ADDITIONAL COST TO THE OWNER. IT MAY BE NECESSARY TO RUN NEW UTILITIES UNDER EXISTING UTILITIES (CROSSOVER).
3. ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT/DEVICES SHOWN ARE FROM AVAILABLE RECORD DRAWINGS. ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY AND CONTRACTOR SHALL FIELD VERIFY AND PROVIDE ANY REMEDIATION TO PROVIDE FULLY OPERABLE FIRE ALARM SYSTEM.
4. DISCONNECT AND REMOVE ALL EXISTING FIRE ALARM SYSTEM. EXISTING CONDUIT MAYBE RE-USED FOR NEW WORK, PROVIDED THEY MEET MINIMUM CONDUIT SIZE REQUIREMENTS AND WIRE FILL CAPACITY (40%). OTHERWISE PROVIDE NEW CONDUITS. CONTRACTOR AT HIS OPTION MAY REUSE EXISTING CONDUITS WITHIN THE BUILDINGS/SITE AND PROVIDE NEW CONDUITS TO EXTEND TO NEW DEVICE LOCATIONS AS NECESSARY.
5. EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED UNTIL NEW FIRE ALARM HAS BEEN INSTALLED AND TESTED. UNLESS FIRE WATCH IS PROVIDED.

REFERENCE NOTES

1. PROVIDE COMMUNICATIONS NETWORK CABLE (NFN TWISTED PAIR WIRE) FROM NEW SLAVE FIRE ALARM CONTROL PANEL (NFS-S) TO EXISTING FIRE ALARM CONTROL PANEL (A103-107685). PROVIDE NEW CONDUIT TO ACCOMMODATE NEW CABLE AS REQUIRED. FIELD VERIFY EXISTING CONDUIT PATHWAY. REPROGRAM EXISTING FIRE ALARM SYSTEM AT EXISTING FIRE ALARM CONTROL PANEL (A103-107685).

DSA A# 03-123063



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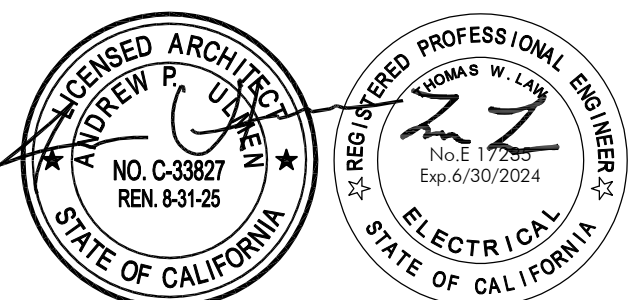
Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

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09.08.23	09.08.23	DSA BACKCHECK

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Checked By: BA

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Consultants

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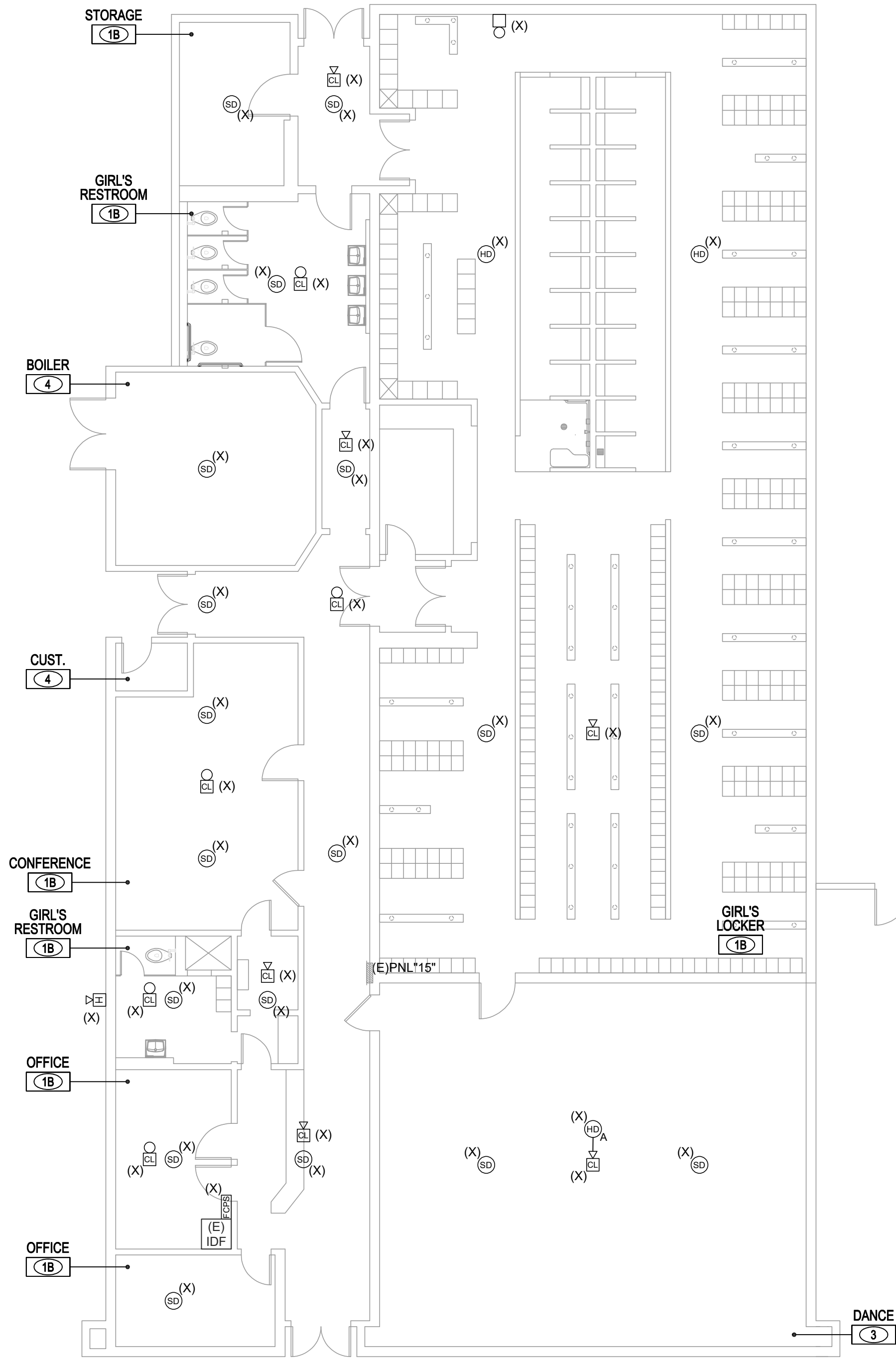
Fire Alarm  
Site Plan

Sheet Number

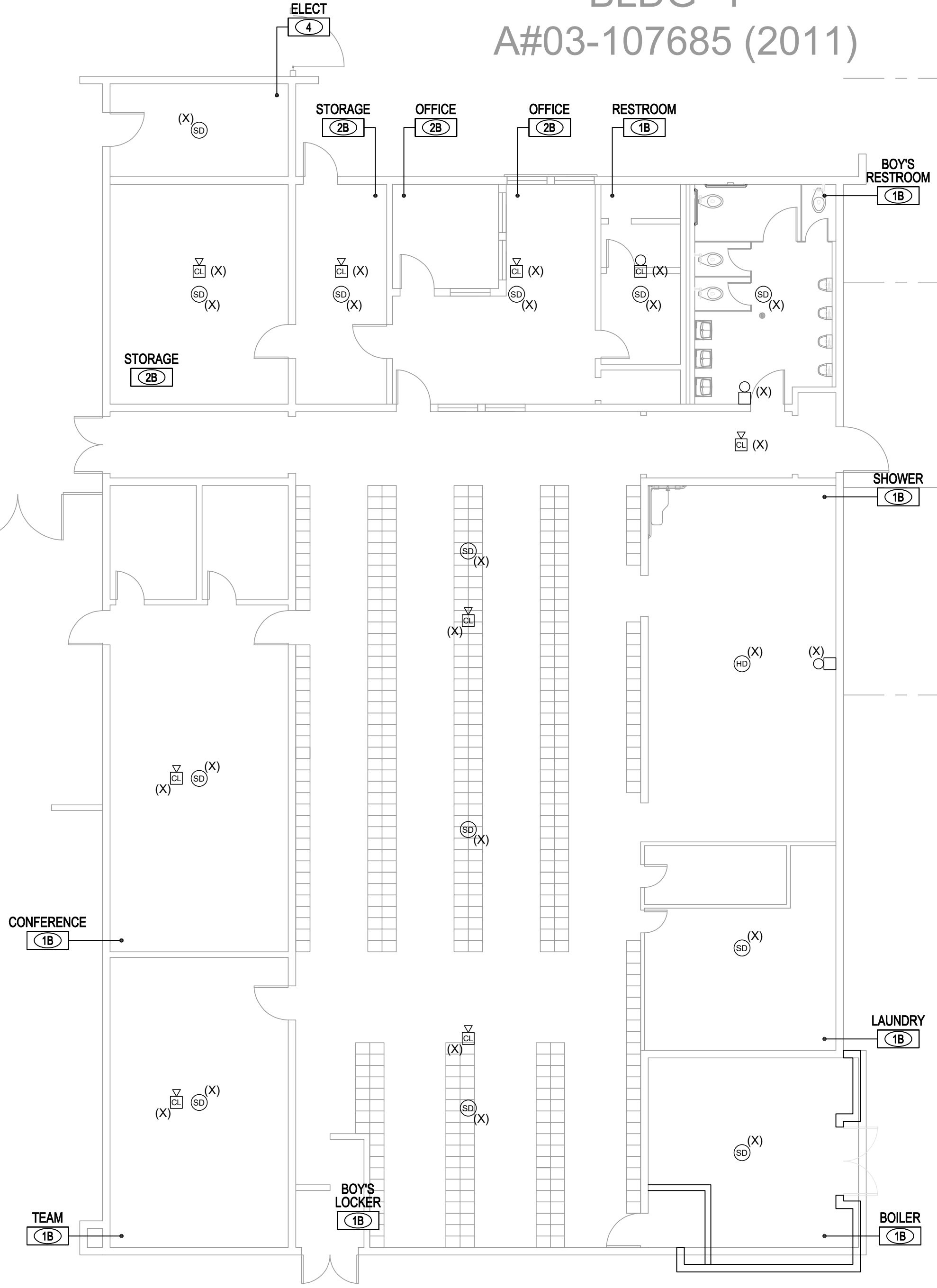
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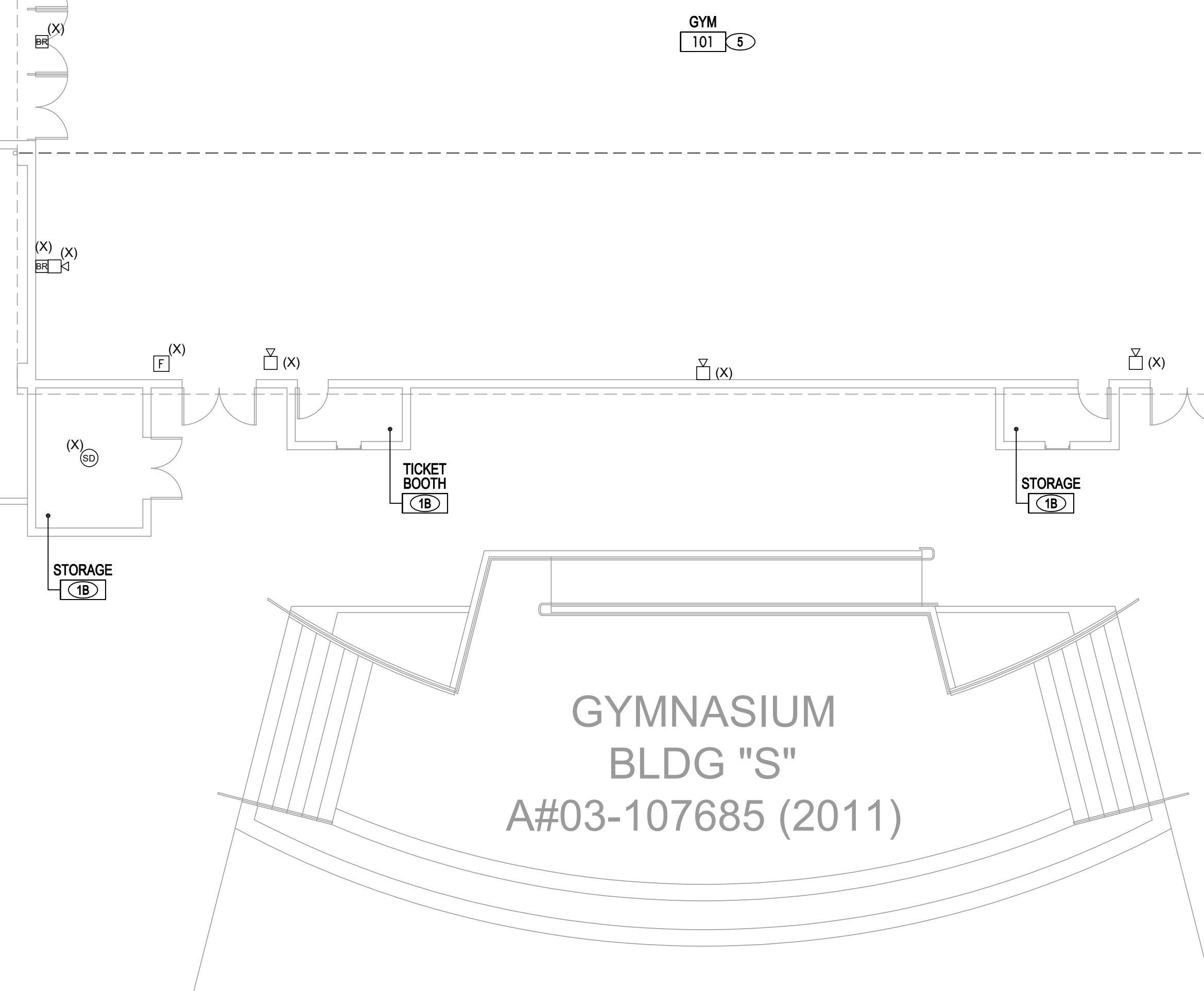
GIRL'S LOCKER BLDG  
"R"  
A#03-107685 (2011)



BOY'S LOCKER  
BLDG "T"  
A#03-107685 (2011)



GYMNASIUM  
BLDG "S"  
A#03-107685 (2011)



FIRE ALARM BUILDING "R", "S", AND "T" DEMOLITION FLOOR PLAN

SCALE  
1/8" = 1'-0"

1

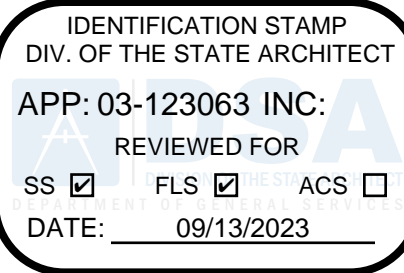
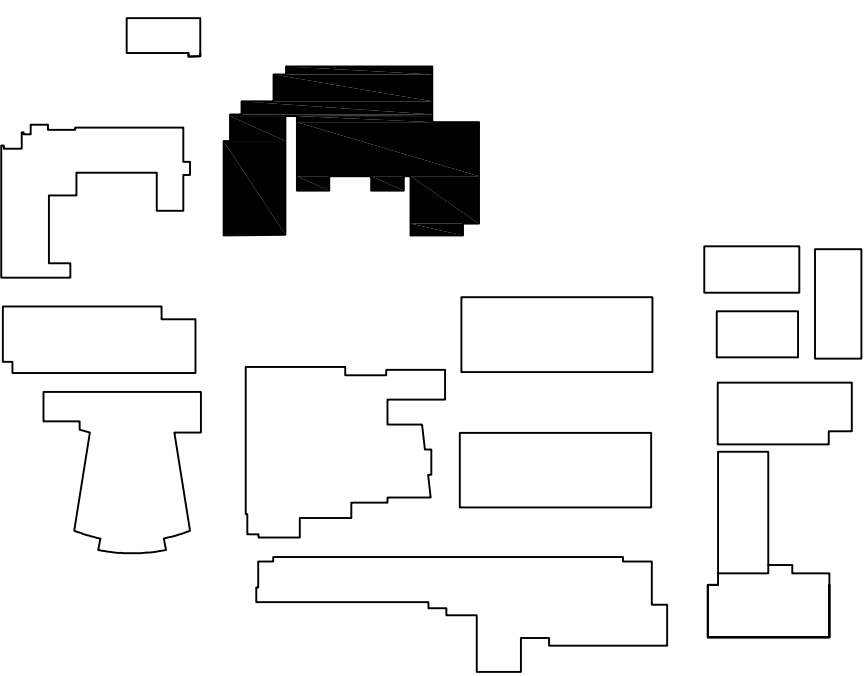
REFERENCE NOTES

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- (1B) EXISTING GYP BOARD CEILING, NO ATTIC SPACE
- (2A) EXISTING GLUE ON TILES, ATTIC SPACE
- (2B) EXISTING GLUE ON TILES, NO ATTIC SPACE
- (3) EXISTING T-BAR CEILING, ATTIC SPACE
- (4) EXISTING EXPOSED BEAM, NO ATTIC SPACE
- (5) EXISTING EXPOSED BEAM, NO ATTIC SPACE, BEAM DEPTH AS NOTED
- (6) PROVIDE (1/20A 1P CIRCUIT BREAKER, AS INDICATED, CIRCUIT BREAKER SHALL MATCH BY TYPE/STYLE/AMP RATING, PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, IDENTIFIED AS "FIRE ALARM CIRCUIT", AND LOCATION OF CIRCUIT BREAKER PERMANENTLY IDENTIFIED AT FIRE ALARM CONTROL UNIT IN COMPLIANCE WITH 2022 CFC/CBC 907, NFPA 72 10.6.5.2 AND 2019 CEC 706
- (7) PROVIDE COMMUNICATIONS NETWORK CABLE (NPN TWISTED PAIR WIRE) FROM NEW SLAVE FIRE ALARM CONTROL PANEL (FACP-G) TO EXISTING FIRE ALARM CONTROL PANEL (AB03-107685), PROVIDE NEW CONDUIT TO ACCOMMODATE NEW CABLE AS REQUIRED, FIELD VERIFY EXISTING CONDUIT PATHWAY, REPROGRAM EXISTING FIRE ALARM SYSTEM AT EXISTING FIRE ALARM CONTROL PANEL (AB03-107685)
- (8) HVAC UNIT (REFER TO MECHANICAL DRAWING), PROVIDE AUTOMATIC SHUT OFF PER CMC 606, WITH CONTROL RELAY MODULE (SIGA-CR) AND 120V RELAY MODULES (RIBUC) (LOCATE ABOVE ACCESSIBLE CEILING SPACE BELOW HVAC UNIT), SEE WIRING DIAGRAM ON SHEET E401, CONNECT 120V POWER CIRCUIT FROM NEAREST PANEL TO RIBUC RELAY, PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING
- (9) PROVIDE CONTROL RELAY MODULE (SIGA-CR) FOR PA SYSTEM, FIELD VERIFY LOCATION, WHEN THE FIRE ALARM SYSTEM VOICE EVACUATION MESSAGE IS ACTIVATED, THE PA SYSTEM WILL BE EXTINGUISHED
- (10) PROVIDE NEW ACCESS PANEL, REFER TO ARCHITECT CEILING PLAN FOR EXACT LOCATION
- (11) PROVIDE WALL SPEAKER/STROBE GUARD (CHASE SECURITY SYSTEM # CSSW 772W) (ONLY INSIDE GYM AREA)
- (12) PROVIDE A SIGNAGE "FIRE ALARM CONTROL PANEL INSIDE" AT THE DOOR TO FAC/FPCPS, SEE DETAIL ON 7/E401, PATCH/PAINT/REPAIR TO MATCH ADJACENT SURFACES

GENERAL NOTES

- FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL BE IN COMPLIANCE WITH CFC 2022, CHAPTER 9, 11 AND 33 & CBC 2022, CHAPTER 33
  - EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN SERVICE, UNIMPAIRED, AT ALL TIMES DURING CONSTRUCTION, UNLESS UNDER FIRE WATCH
  - PROVIDE FIRE WATCH UNTIL THE NEW SYSTEM IS IN OPERATION AND APPROVED BY I.O.R., DSA (IR F-2), LOCAL FIRE AUTHORITY, AND DISTRICT
  - PROVIDE FIRE WATCH PER CFC 801.7 SYSTEM OUT OF SERVICE, REFER TO SPECIFICATION SECTION 283111B ATTACHMENT B FOR CSFM FIRE WATCH GUIDE LINE
- AUTOMATIC SHUTOFF IS NOT REQUIRED WHEN
  - A. AIR-MOVING SYSTEMS SUPPLYING AIR LESS THAN 200 CFM TO ENCLOSED SPACES WITHIN BUILDING, (CMC 606.1)
  - B. ALL OCCUPIED ROOMS SERVED BY THE AIR-HANDLING EQUIPMENT HAVE DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FEET, (CMC 608.1 EXEMPTION 2)
- ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT/DEVICES SHOWN ARE FROM AVAILABLE RECORD DRAWINGS, ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY AND CONTRACTOR SHALL FIELD VERIFY AND PROVIDE ANY REMEDIATION TO PROVIDE FULLY OPERABLE FIRE ALARM SYSTEM
- DISCONNECT AND REMOVE ALL EXISTING FIRE ALARM SYSTEM, EXISTING CONDUIT MAYBE RE-USED FOR NEW WORK, PROVIDED THEY MEET MINIMUM CONDUIT SIZE REQUIREMENTS AND WIRE FILL CAPACITY (40%), OTHERWISE PROVIDE NEW CONDUITS, CONTRACTOR AT HIS OPTION MAY REUSE EXISTING CONDUITS WITHIN THE BUILDINGSITE AND PROVIDE NEW CONDUITS TO EXTEND TO NEW DEVICE LOCATIONS AS NECESSARY
- EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED UNTIL NEW FIRE ALARM HAS BEEN INSTALLED AND TESTED, UNLESS FIRE WATCH IS PROVIDED
- PROVIDE NEW CONDUIT ABOVE CEILING WHERE POSSIBLE AS REQUIRED, OTHERWISE, ALL WIRING SHALL BE RUN IN WIRE MOLD BELOW CEILING

KEY PLAN



DSA Stamp

Architect



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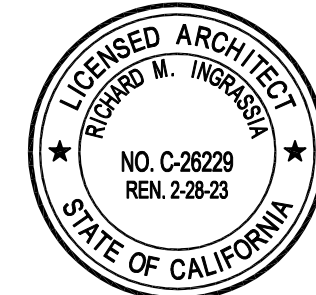
Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev 1 Date 12.16.2022 Issue DD 100%

Date: .....  
Scale: As Shown  
Drawn By: JMS/JH  
Checked By: JT, MR

Architect / Engineer Stamp



Consultants

Sheet Title  
Fire Alarm  
Building 'R' 'S' 'T'  
Demolition  
Floor Plan

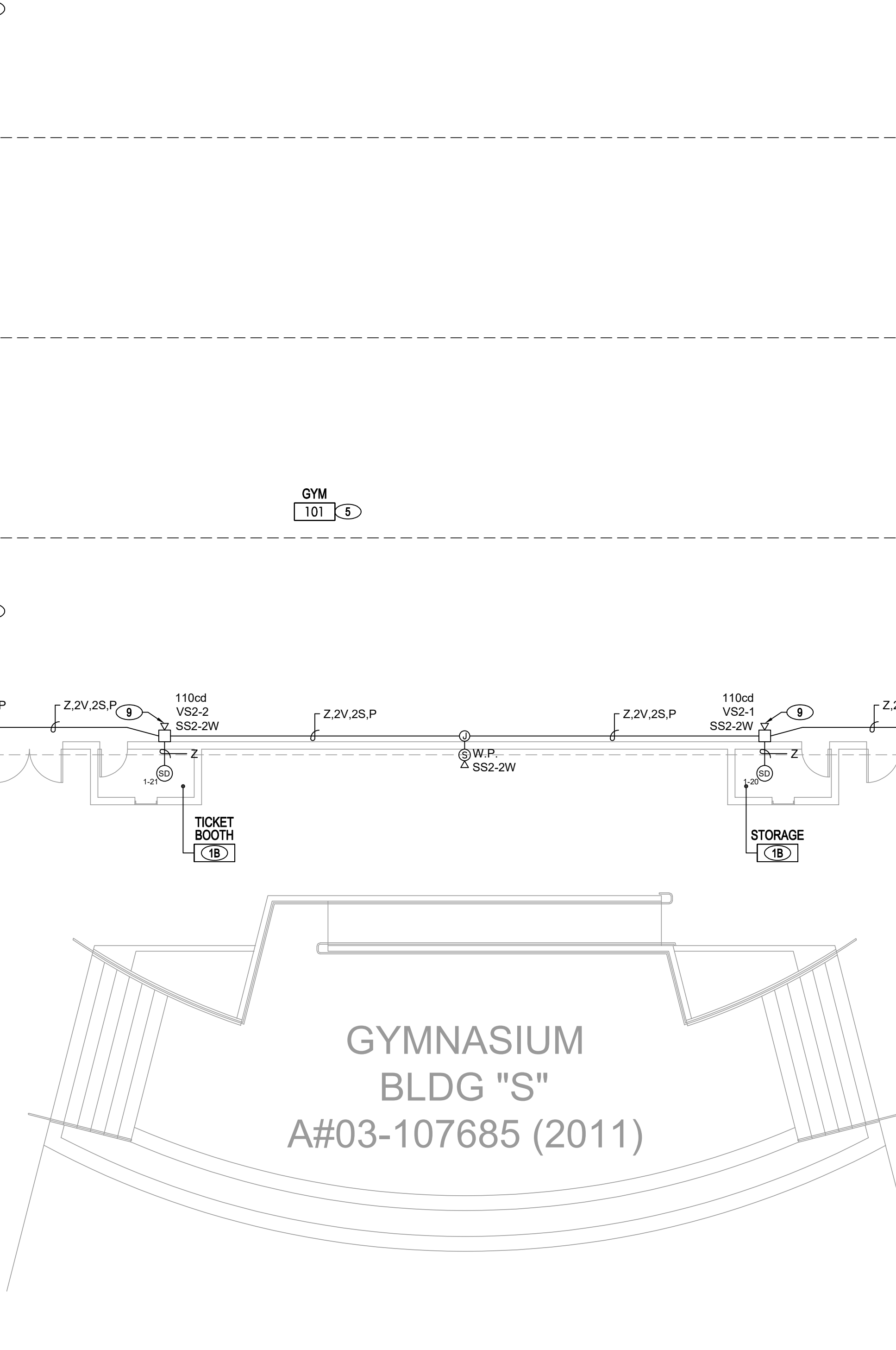
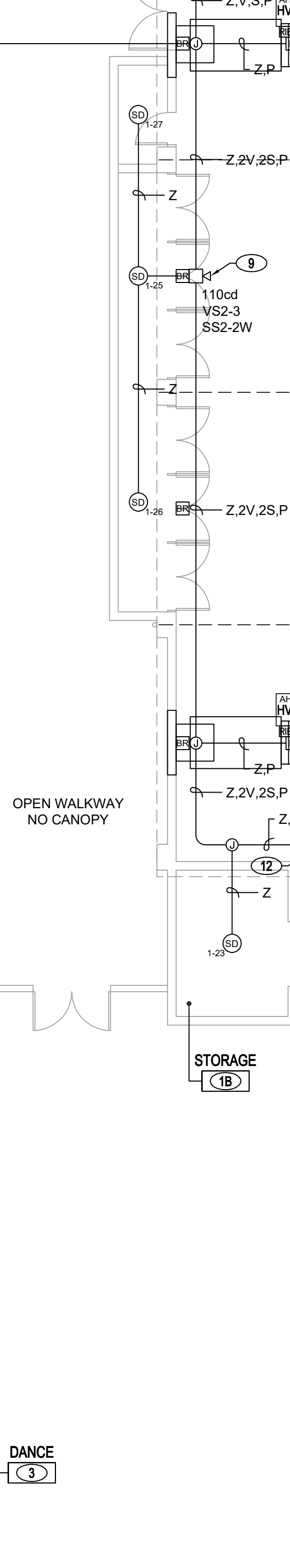
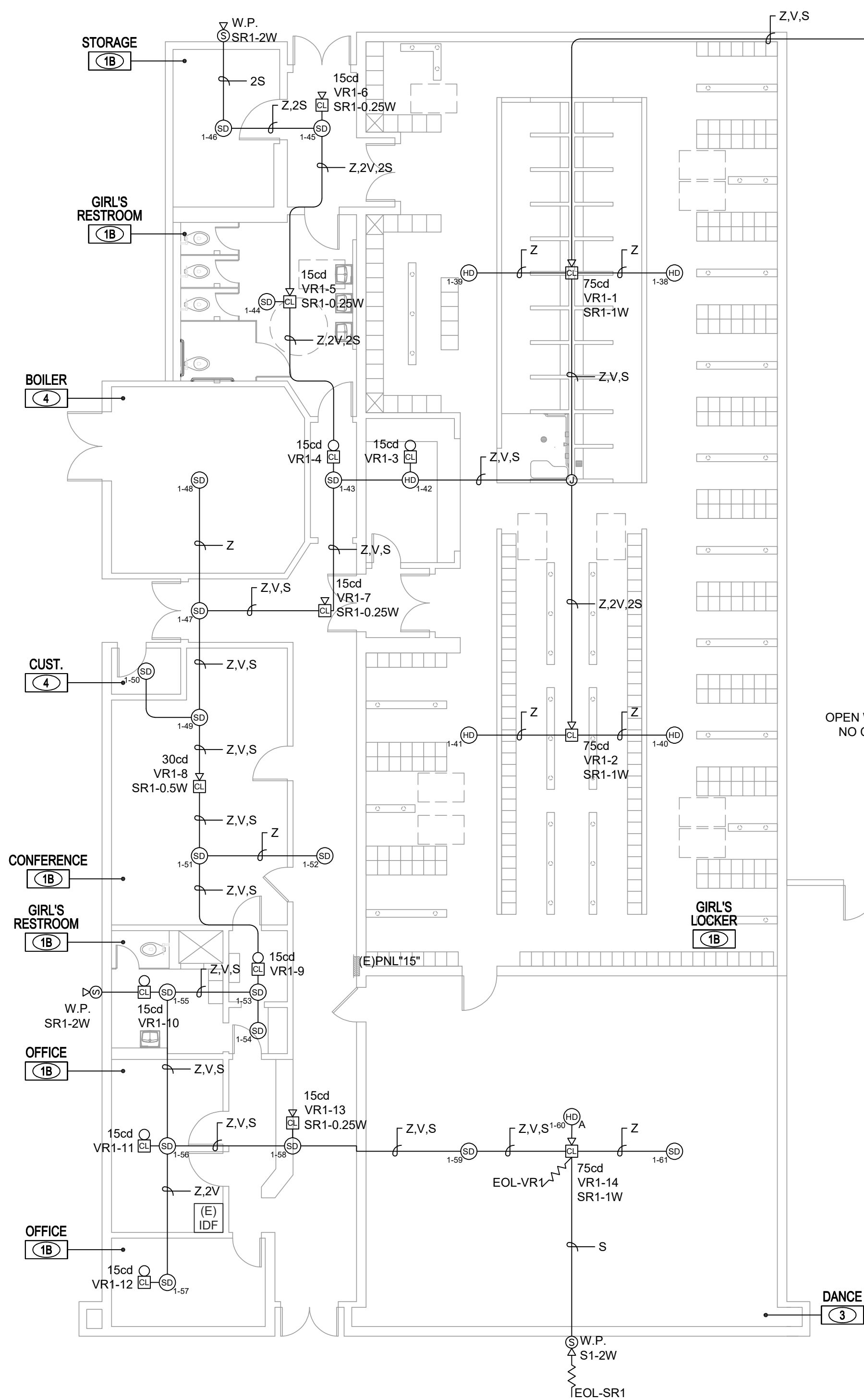
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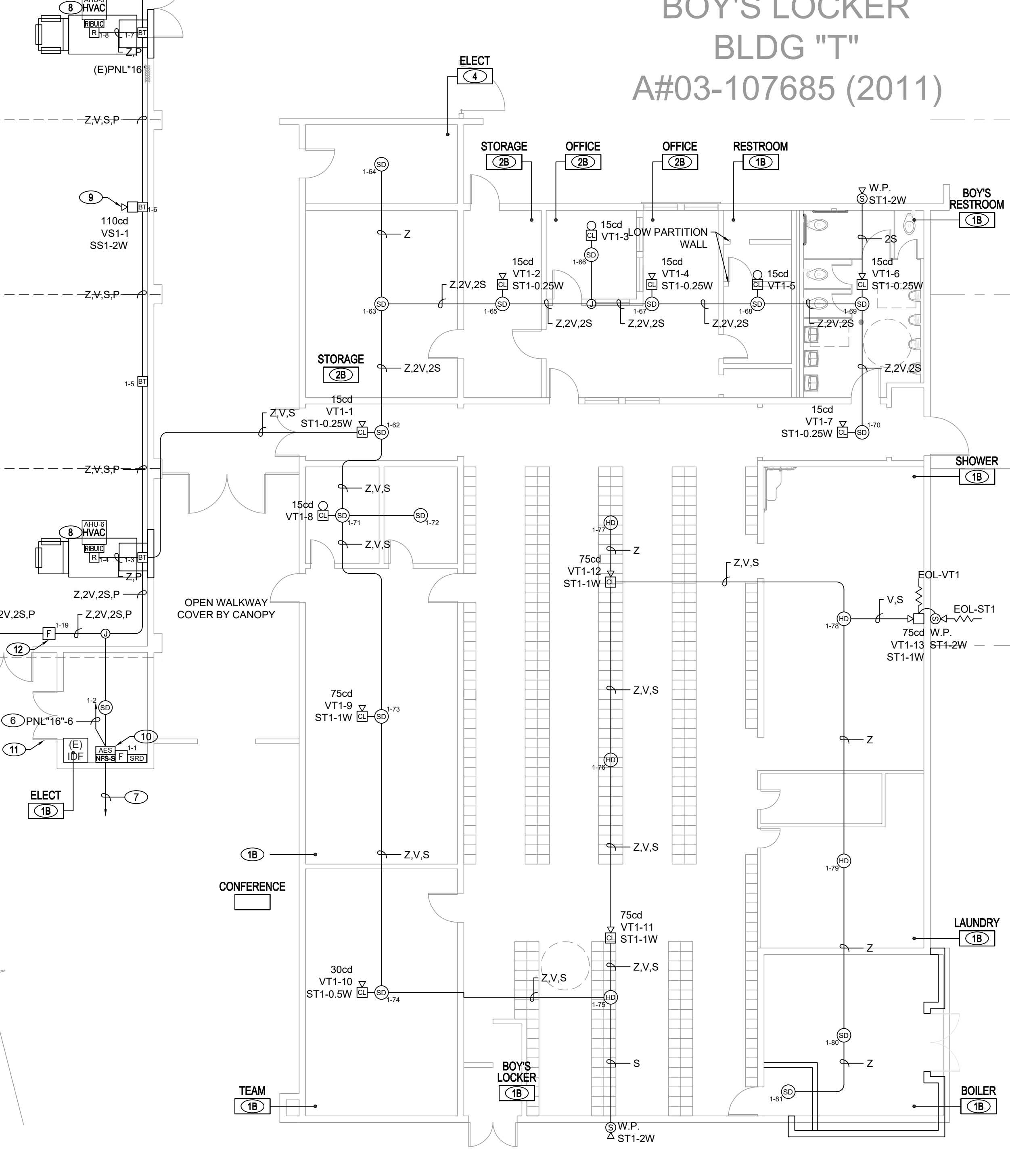


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GIRL'S LOCKER BLDG  
"R"  
A#03-107685 (2011)



BOY'S LOCKER  
BLDG "T"  
A#03-107685 (2011)



GYMNASIUM  
BLDG "S"  
A#03-107685 (2011)

FIRE ALARM BUILDING "R", "S", AND "T" FLOOR PLAN

SCALE  
1/8" = 1'-0"

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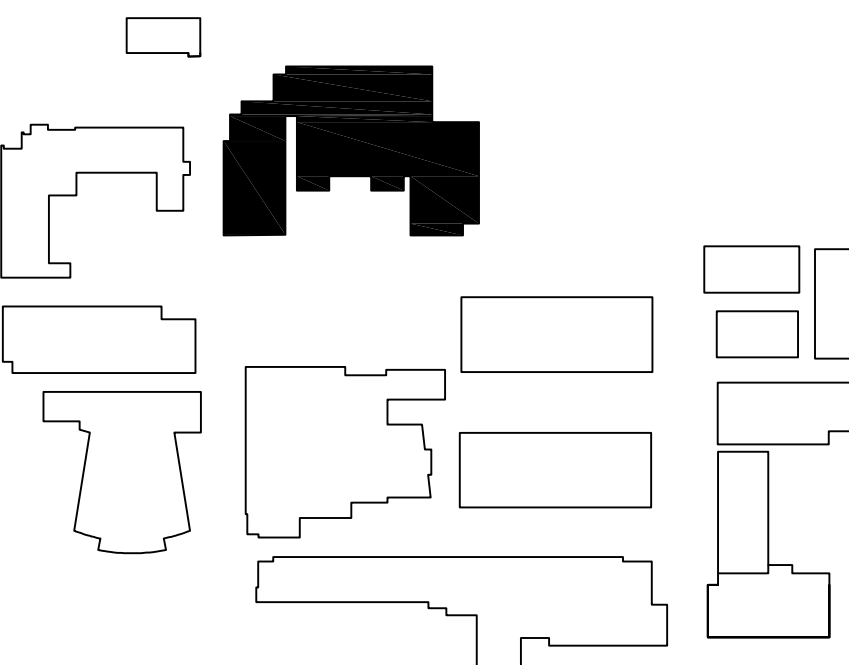
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(6) PROVIDE (1/20A 1P CIRCUIT BREAKER, AS INDICATED, CIRCUIT BREAKER SHALL MATCH BY TYPE/STYLE/AMP RATING, PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, IDENTIFIED AS "FIRE ALARM CIRCUIT", AND LOCATION OF CIRCUIT BREAKER PERMANENTLY IDENTIFIED AT FIRE ALARM CONTROL UNIT IN COMPLIANCE WITH 2022 CFC/CBC 907, NFPA 72 10.6.5.2 AND 2018 CEC 706  
(7) PROVIDE COMMUNICATIONS NETWORK CABLE (FPL TWISTED PAIR WIRE) FROM NEW SLAVE FIRE ALARM CONTROL PANEL (NFS-S) TO EXISTING FIRE ALARM CONTROL PANEL (A#03-107685), PROVIDE NEW CONDUIT TO ACCOMMODATE NEW CABLE AS REQUIRED, FIELD VERIFY EXISTING CONDUIT PATHWAY, REPROGRAM EXISTING FIRE ALARM SYSTEM AT EXISTING FIRE ALARM CONTROL PANEL (A#03-107685)  
(8) HVAC UNIT (REFER TO MECHANICAL DRAWING), PROVIDE AUTOMATIC SHUT OFF PER CMC 608, WITH CONTROL RELAY MODULE (FRM-1) AND 120V RELAY MODULES (RIBUC), LOCATE ABOVE ACCESSIBLE CEILING SPACE BELOW HVAC UNIT, SEE WIRING DIAGRAM ON SHEET E401, CONNECT 120V POWER CIRCUIT FROM NEAREST PANEL TO RIBUC RELAY, PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING  
(9) PROVIDE WALL SPEAKER/STROBE GUARD (CHASE SECURITY SYSTEM # C5SW 77ZW) (ONLY INSIDE GYM AREA)  
(10) PROVIDE (2) CAT6 FROM IDF TO HYBRID RADIO FREQUENCY (RF)IP TRANSCEIVER (AES Corp #7177), PROVIDE NEW 20A 1P RECEPTACLE FOR 16.5 VAC, 40 VA CLASS 2 DIRECT PLUG-IN TRANSFORMERS (AES Corp #1640)  
(11) PROVIDE A SIGNAGE "FIRE ALARM CONTROL PANEL INSIDE" AT THE DOOR TO FAC/PCPS, SEE DETAIL ON 7/E401, PATCH/PAINT/REPAIR TO MATCH ADJACENT SURFACES  
(12) PROVIDE MANUAL PULL STATION GUARD (ST1-13210FR) (ONLY INSIDE GYM AREA)  
(13) PROVIDE WALL MOUNTED AUDIBLE/VISIBLE NOTIFICATION APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE BLEACHERS.

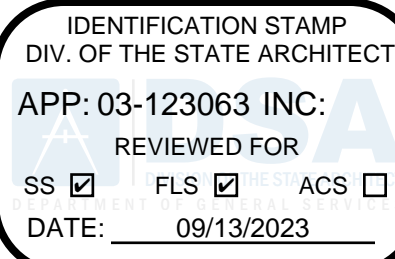
GENERAL NOTES

1. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL BE IN COMPLIANCE WITH CFC 2022, CHAPTER 9, 11 AND 33 & CBC 2022, CHAPTER 33  
2. EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN SERVICE, UNIMPAIRED, AT ALL TIMES DURING CONSTRUCTION, UNLESS UNDER FIRE WATCH  
3. PROVIDE FIRE WATCH UNTIL THE NEW SYSTEM IS IN OPERATION AND APPROVED BY I.O.R., DSA (IR F-2), LOCAL FIRE AUTHORITY, AND DISTRICT  
4. PROVIDE FIRE WATCH PER CFC 801.7 SYSTEM OUT OF SERVICE, REFER TO SPECIFICATION SECTION 283111B ATTACHMENT B FOR CSFM FIRE WATCH GUIDE LINE  
5. AUTOMATIC SHUTOFF IS NOT REQUIRED WHEN:  
A. AIR-MOVING SYSTEMS SUPPLYING AIR LESS THAN 200 CFM TO ENCLOSED SPACES WITHIN BUILDING, (CMC 608.1)  
B. ALL OCCUPIED ROOMS SERVED BY THE AIR-HANDLING EQUIPMENT HAVE DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FEET, (CMC 608.1 EXEMPTION2)  
6. ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT/DEVICES SHOWN ARE FROM AVAILABLE RECORD DRAWINGS, ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY AND CONTRACTOR SHALL FIELD VERIFY AND PROVIDE ANY REMEDIATION TO PROVIDE FULLY OPERABLE FIRE ALARM SYSTEM  
7. DISCONNECT AND REMOVE ALL EXISTING FIRE ALARM SYSTEM, EXISTING CONDUIT MAYBE RE-USED FOR NEW WORK, PROVIDED THEY MEET MINIMUM CONDUIT SIZE REQUIREMENTS AND WIRE FILL CAPACITY (40%), OTHERWISE PROVIDE NEW CONDUITS, CONTRACTOR AT HIS OPTION MAY REUSE EXISTING CONDUITS WITHIN THE BUILDINGSITE AND PROVIDE NEW CONDUITS TO EXTEND TO NEW DEVICE LOCATIONS AS NECESSARY  
8. EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED UNTIL NEW FIRE ALARM HAS BEEN INSTALLED AND TESTED, UNLESS FIRE WATCH IS PROVIDED  
9. PROVIDE NEW CONDUIT ABOVE CEILING WHERE POSSIBLE AS REQUIRED, OTHERWISE, ALL WIRING SHALL BE RUN IN WIRE MOLD BELOW CEILING.

KEY PLAN



APPL. No. A 00-000000



DSA Stamp

Architect



Disclaimer:

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE OWNER. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE PROJECT. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE PROJECT. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE PROJECT.

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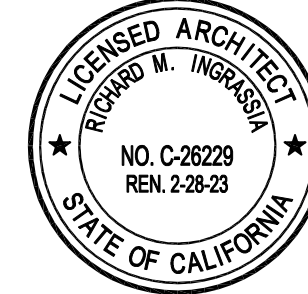
Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev 1 Date 12.16.2022 Issue DD 100%

Date: .....  
Scale: As Shown  
Drawn By: MS/JH  
Checked By: JT, MR

Architect / Engineer Stamp



Consultants

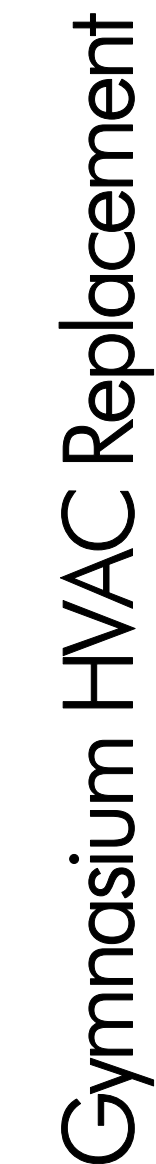
Sheet Title  
Fire Alarm  
Building 'R' 'S' 'T'  
Floor Plan

Sheet Number

E321



- ① PROVIDE 1/1024 1" PITCH BREAKER, AS INDICATED. CIRCUIT BREAKER SHALL MATCH BY TYPE/STYLE/RATING. PROVIDE CIRCUIT BREAK ON DEVICE TO CIRCUIT BREAKER HANDLING, WITH RED MARKING, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL. IDENTIFIED FIRE ALARM CONTROL LINE AND LOCATION OF CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED FIRE ALARM CONTROL LINE IN COMPLIANCE WITH 2022 CFC609.907, NFPA 72 10.6.5.2 AND 2019 CEC 760.
- ② PROVIDE COMMUNICATIONS NETWORK CABLE (NFN TWISTED PAIR WIRE) FROM NEW SLAVE FIRE ALARM CONTROL PANEL (NF-S) TO EXISTING FIRE ALARM CONTROL PANEL (AR03-107685). PROVIDE NEW CONDUIT TO TRANSMIT AND LOCATE NEW RIBUIC CABLE TO EXISTING FIRE ALARM CONTROL PANEL. REPROGRAM EXISTING FIRE ALARM SYSTEM AT EXISTING FIRE ALARM CONTROL PANEL (AR03-107685).
- ③ HVAC UNIT (REFER TO MECHANICAL DRAWING ). PROVIDE AUTOMATIC SHUT OFF PER CM6 658, WITH CIRCUIT RELAY MODULE (FRM-1) AND 120V RELAY MODULES (RIBUIC) (LOCATE ABOVE ACCESSIBLE CEILING SPACE BELOW HVAC UNIT). SEE WIRING DIAGRAM ON SHEET 4404. CONNECT 120V POWER CIRCUIT FROM NEAREST 120V RIBUIC CIRCUIT TO EXISTING FIRE ALARM CONTROL LINE TO CIRCUIT BREAKER.
- ④ PROVIDE 2 (2) CAPS FROM IDF TO HYBRID RIA CLASSIFICATION (RPIJ TRANSFORMER (AS COR-57117)). PROVIDE NEW 20A 1" RECEPTACLE FOR 16.5 VAC, 40 VA CLASS 2 DIRECT PLUG-IN TRANSFORMERS (AS COR-81640).

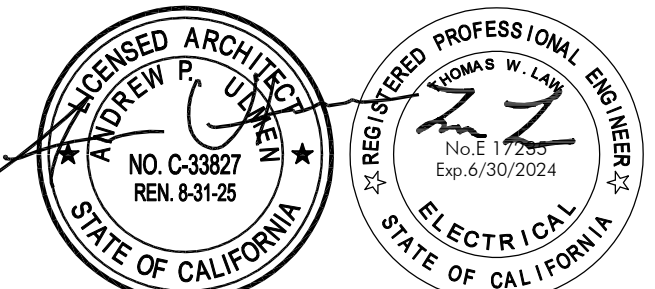


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Rev	Date	Issue
	03.06.23	DSA SUBMITTAL
	09.08.23	DSA BACKCHECK

Date: 08.18.2023  
Scale: As Shown  
Drawn By: TL  
Checked By: BA

Architect / Engineer Stamp



## Consultants

Sheet Title

## Fire Alarm Riser Diagram

Sheet Number











E331

# FIRE ALARM RISER DIAGRAM

SCALE  
N.T.S.

1



Voltage Drop Calculations																													
FCPS#	BLDG	CIRCUIT	DISTANCE (FT)	NUMBER OF DEVICES										INDIVIDUAL CURRENT										TOTAL CURRENT	WIRE SIZE	VOLTAGE DROP %	MAX DISTANCE (FT)		
																													
				15cd	15cd	30cd	75cd	110cd	15cd	15cd	30cd	75cd	95cd	15cd	15cd	30cd	75cd	95cd	15cd	15cd	30cd	75cd	95cd						
		VS1	250	0	0	0	0	4	1	1	0	0	0	0.000	0.043	0.063	0.107	0.148	0.041	0.041	0.041	0.063	0.111	0.134	0.674	12	3.27	1649	
		VS2	250	0	0	0	0	4	1	1	0	0	0	0.000	0.043	0.063	0.107	0.148	0.041	0.041	0.041	0.063	0.111	0.134	0.674	12	3.27	1649	
		VR1	550	0	0	0	0	0	0	0	6	4	1	3	0	0.000	0.000	0.000	0.000	0.592	0.041	0.041	0.000	0.000	0.000	0.874	12	8.61	1379
		VT1	400	0	0	0	0	1	0	3	5	1	3	0	0.000	0.000	0.000	0.107	0.000	0.123	0.205	0.063	0.333	0.000	0.831	12	6.45	1337	

VOLTAGE DROP PERCENTAGE FORMULA

Vterminal = 20.4 VOLTS  
Iload = TOTAL CURRENT DRAW IN AMPERES OF THE CONNECTED APPLIANCES  
L = MAX DISTANCE FROM THE CONTROL UNIT TO THE LAST APPLICATION (IN FEET)  
FROM TABLE 8 OF CHAPTER 9 IN NFPA 70, 2022 EDITION  
STRANDED, UNCOATED COPPER CONDUCTORS AT 75°C  
THE RESISTANCE PER FOOT (R) FOR 12 AWG IS 0.00198 Ohm/ft  
THE RESISTANCE PER FOOT (R) FOR 14 AWG IS 0.00314 Ohm/ft  
VOLTAGE DROP PERCENTAGE = 2 x L x Iload x R x 100 %  
20.4

MAX DISTANCE FROM THE CONTROL UNIT TO THE LAST APPLICATION FORMULA

Vterminal = 20.4 VOLTS  
Iload = TOTAL CURRENT DRAW IN AMPERES OF THE CONNECTED APPLIANCES  
L = MAX DISTANCE FROM THE CONTROL UNIT TO THE LAST APPLICATION (IN FEET)  
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THE RESISTANCE PER FOOT (R) FOR 14 AWG IS 0.00314 Ohm/ft  
L = Vterminal - Vload FT  
2 x R x Iload

### Fire Alarm Battery Calculations: FACP (GYM BUILDING "S")






DEVICE	MODEL#	QUANTITY	SUPERVISORY CURRENT		ALARM CURRENT	
			EACH UNIT	SUBTOTAL	EACH UNIT	SUBTOTAL
Fire Alarm Control Panel	NFS2-640	1	0.250000	0.250000	0.025000	0.025000
Charger power supply	CPS-24	1	0.000000	0.000000	0.040000	0.040000
# of NACs in use		4	0.035000	0.140000	0.035000	0.140000
High-Speed Network Communications Modules	HS-NCM-W-2	1	0.400000	0.400000	0.400000	0.400000
Network Control Annunciator	NCA-2	1	0.400000	0.400000	0.400000	0.400000
Digital Voice Command	DVC-EM	1	0.300000	0.300000	0.300000	0.300000
Digital Series Distribution Board	DS-DB	1	0.355000	0.355000	0.550000	0.550000
120 VAC Digital Audio Amplifier, 100W (70VRMS)	DS-AMP	1	0.130000	0.130000	0.300000	0.300000
Remote microphone	RM-1	1	0.075000	0.075000	0.075000	0.075000
Addressable Manual Pull Station	NBG-12LX	7	0.000375	0.002625	0.005000	0.035000
Addressable Photoelectric Smoke Detectors	FSP-951	50	0.000200	0.010000	0.004500	0.225000
8" base, standard flanged low-profile mounting base	B300-6	50	0.000170	0.008500	0.000170	0.008500
Addressable Thermal Sensor, Rate-of-Rise	FST-951R	10	0.000200	0.002000	0.004500	0.045000
8" base, standard flanged low-profile mounting base	B300-6	10	0.000170	0.001700	0.000170	0.001700
Addressable Thermal Sensor, fixed, 190°F	FST-951H	2	0.000200	0.000400	0.004500	0.009000
8" base, standard flanged low-profile mounting base	B300-6	2	0.000170	0.000340	0.000170	0.000340
Intelligent imaging beam smoke detector including reflector	FS-OSI-RI	6	0.014000	0.084000	0.015000	0.090000
Test and reset station with key lock, flush mount	RTS151KEY	6	0.009000	0.054000	0.009000	0.054000
15 cd Wall Strobe	SWL-P	0	0.000000	0.000000	0.043000	0.000000
15 cd Wall Speaker-Strobe	SPSWL-P	0	0.000000	0.000000	0.043000	0.000000
30 cd Wall Speaker-Strobe	SPSWL-P	0	0.000000	0.000000	0.083000	0.000000
75 cd Wall Speaker-Strobe	SPSWL-P	1	0.000000	0.000000	0.107000	0.107000
110 cd Wall Speaker-Strobe	SPSWL-P	8	0.000000	0.000000	0.148000	1.184000
15 cd Ceiling Strobe	SCWL-P	11	0.000000	0.000000	0.041000	0.451000
15 cd Ceiling Speaker-Strobe	SPSCWL-P	11	0.000000	0.000000	0.041000	0.451000
30 cd Ceiling Speaker-Strobe	SPSCWL-P	2	0.000000	0.000000	0.083000	0.126000
75 cd Ceiling Speaker-Strobe	SPSCWL-P	6	0.000000	0.000000	0.111000	0.666000
95 cd Ceiling Speaker-Strobe	SPSCWL-P	0	0.000000	0.000000	0.134000	0.000000
Addressable monitor module, single circuit, Style B, C	FRM-1	0	0.000375	0.000000	0.005000	0.000000
Addressable Dual monitor module, single circuit, Style B, C	FCM-1	0	0.000750	0.000000	0.006400	0.000000
Addressable Supervised Control Module	FCM-1	0	0.000350	0.000000	0.005000	0.000000
Addressable Relay Control Module	FRM-1	6	0.000230	0.001380	0.005000	0.030000
Relay 10 Amp SPDT with 10-30 VAC/DC/120 VAC Cat	RBU1C	6	0.015000	0.090000	0.015000	0.090000
Total Speaker Current		1	0.000000	0.000000	0.763791	0.763791
SUB TOTAL			2.304945		6.576331	

\* CURRENT DRAW INCLUDED WITH DEVICE ADDRESSES USED  
STANDBY TIME = 24 HRS X SUPERVISORY CURRENT 55.319 Ah  
ALARM TIME = 15 MINUTES (0.25HRS) 1.644 Ah  
ADDITIONAL SPARE CAPACITY @ 25% OF TOTAL CURRENT 14.241 Ah  
TOTAL BATTERY REQUIRED(Ah) 71.203 Ah  
BATTERIES SUPPLIED 100 Ah

SPEAKER CIRCUIT LOAD CALCULATION										MAXIMUM 3 dB DROP PER CIRCUIT				
EVAC	BLDG	SPEAKER CIRCUIT	PANEL CIRCUIT NUMBER	WIRE GAUGE (18, 16, 14, 12)	CIRCUIT LENGTH (25 OR 70 VRMS)	APPLIANCES QUANTITIES / TAP VALUES		TOTAL CIRCUIT LOAD (WATTS)	ESTIMATED CIRCUIT LENGTH (FEET)	ACTUAL WIRE/LOSS (dB)	MAXIMUM ALLOWABLE CKT. LENGTH (FEET)	TOTAL CIRCUIT RESISTANCE (OHMS)	TOTAL LOAD (WATTS)	
				SPEAKER TAP	SPEAKER TAP	1 Watt	2 Watt							
NFS-S	S	SPEAKER/STROBES	SS1	18	70.7 v rms	4	0	1	10	21.25 Watts	250 ft	- 13 db	687.7 ft	3.571 Ohms
		SPEAKER/STROBES	SS2	18	70.7 v rms	4	1	3	3	10.5 Watts	250 ft	- 06 db	13.796 ft	3.571 Ohms
		SPEAKER/STROBES	SR1	18	70.7 v rms	4	1	3	3	10.5 Watts	550 ft	- 14 db	13.796 ft	7.857 Ohms
		SPEAKER/STROBES	ST1	18	70.7 v rms	5	1	4	3	11.75 Watts	400 ft	- 12 db	12.329 ft	5.714 Ohms
		Appliance Summary								Total Load (Watts)				
				14	3	11	19	64.00						

NOTE:  
LUMP SUM METHOD WAS USED TO CALCULATE MAXIMUM ALLOWABLE CIRCUIT LENGTH. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY. TAKING INTO CONSIDERATION THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS.

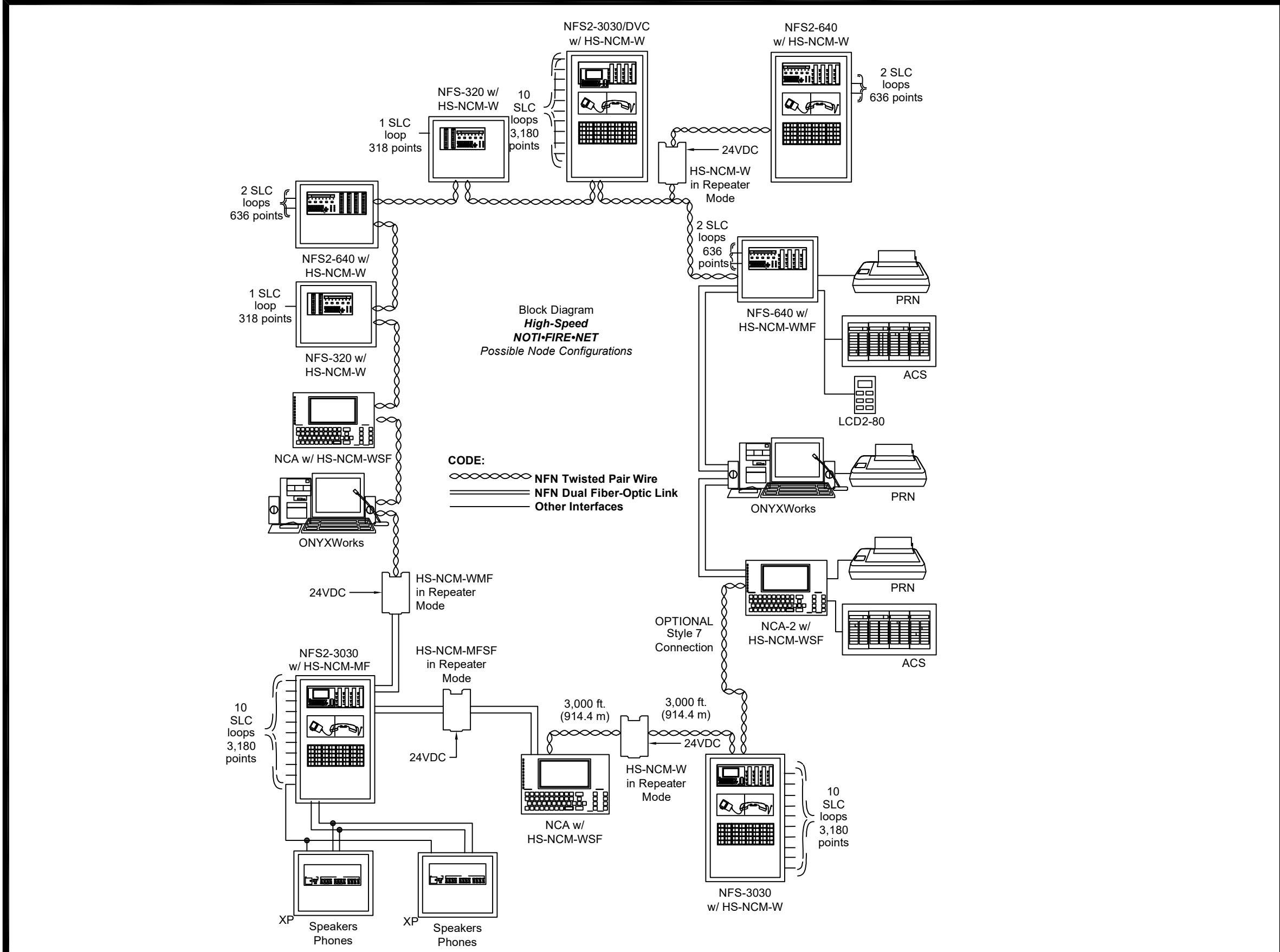
Wire Resistance At 50 Degrees Celsius, 122 Degrees Fahrenheit  
Ohms / ft  
12GA = 0.001774  
14GA = 0.002822  
16GA = 0.004495  
18GA = 0.007143

FIRE ALARM EQUIPMENT SCHEDULE													
SYMBOL	QTY.	MODEL	MANUFACTURER	DESCRIPTION	CSFM #	INSTALLATION/MOUNTING							
	1	NFS2-640	NOTIFIER	Fire Alarm Control Panel	7165-0028 0243	Wallbox provided							
	1	HS-NCM-W-2	NOTIFIER	High-Speed Network Communications Modules	7300-0028 0257	Mount in Cabinet							
	1	NCA-2	NOTIFIER	Network Control Annunciator	7165-0028 0243	Mount in Cabinet							
	1	DVC-EM	NOTIFIER	Digital Voice Command	7165-0028 0243	Mount in Cabinet							
	1	DS-DB	NOTIFIER	Digital Series Distribution Board	7165-0028 0243	Mount in Cabinet							
	1	DS-AMP	NOTIFIER	120 VAC Digital Audio Amplifier, 100W (70VRMS)	7165-0028 0243	Mount in Cabinet							
	1	DS-XF70V	NOTIFIER	Stop-up transformer	7165-0028 0243	Mount in Cabinet							
	1	RM-1	NOTIFIER	Remote microphone	7165-0028 0243	Mount in Cabinet							
	2	BAT-121000	NOTIFIER	12V 55AH Sealed Lead-Acid Battery	7165-0028 0243	Mount in Battery Cabinet							
	1	CAB-4	NOTIFIER	standard CAB-4 Series enclosure	7165-0028 0243	Wall mounted							
	7	NBG-12LX	NOTIFIER	Addressable Manual Pull Station	7150-0028 0199	Surface/Semi-Flush Mounted							
	50	FSP-951	NOTIFIER	Addressable Photoelectric Smoke Detectors	7272-0028 0503	Mount to Plug-in sensor base							
	50	B300-6	NOTIFIER	8" base, standard flanged low-profile mounting base	7300-1653 0109	Single gang box							
	10	FST-951R	NOTIFIER	Addressable Thermal Sensor, Rate-of-Rise	7270-0028 0502	Mount to Plug-in sensor base							
	10	B300-6	NOTIFIER	8" base, standard flanged low-profile mounting base	7300-1653 0109	Single gang box							
	2	FST-951H	NOTIFIER	Addressable Thermal Sensor, fixed, 190°F	7270-0028 0502	Mount to Plug-in sensor base							
	2	B300-6	NOTIFIER	8" base, standard flanged low-profile mounting base	7300-1653 0109	Single gang box							
	6	FS-OSI-RI	NOTIFIER	Intelligent imaging beam smoke detector including reflector	7260-0028 0509	Wall Mounted							
	6	RTS151KEY	NOTIFIER	Test and reset station with key lock, flush mount	7260-0028 0509	Wall Mounted							
	0	SWL-P	System Sensor	Plain Wall Strobes Standard cd, White, Clear Lens (selectable 15,30,75, or 110 cd)	7125-1653 0504	Wall Mounted							
	11	SCWL-P	System Sensor	Plain Wall Strobes Standard cd, White, Clear Lens (selectable 15,30,75, or 110 cd)	7125-1653 0504	Ceiling Mounted							
	9	SPSWL-P	System Sensor	Plain Wall Speaker Strobes Standard cd, White, Clear Lens (selectable 15,30,75, or 110 cd)	7320-1653 0505	Wall Mounted							
	19	SPSCWL-P	System Sensor	Plain Ceiling Speaker Strobes Standard cd, White, Clear Lens (selectable 15,30,75, or 110 cd)	7320-1653 0505	Ceiling Mounted							
	8	SPRK-P	System Sensor	Plain Outdoor Speaker, Red, Includes Plastic Weatherproof Back Box	7320-1653 0201	Wall-Mount with Plastic Weatherproof Back Box							
	0	FMM-1	Gamewell	Addressable monitor module, single circuit, Style B, Class B	7300-0028 0219	Single gang box							
	0	FDM-1	Gamewell	Addressable Dual monitor module, single circuit, Style B, Class B	7300-0028 0219	Single gang box							
	0	FCM-1	Gamewell	Addressable Supervised Control Module	7300-0028 0219	Single gang box							
	6	FRM-1	Gamewell	Addressable Relay Control Module	7300-0028 0219	Single gang box							
	6	RBU1C	Functional Devices, Inc.	Relay 10 Amp SPDT with 10-30 VAC/DC/120 VAC Cat	7300-1555 0100	Single gang box							
	1	GW-SRD	Gamewell	System Record Documents (SRD)	N/A	Wall mounted							
	1	7177	AES Corp.	Hybrid Radio Frequency (RF)/IP Transceiver	7300-1516 0502	Wall mounted							
	1640	AES Corp.	16.5 VAC, 40 VA Class 2 Direct Plug-In Transformers	7300-1516 0502	Plug-in to Receptacle								
	1	Battery	AES Corp.	12VDC 12AH Sealed Lead-Acid Battery	7300-1516 0502	Mount in Cabinet							

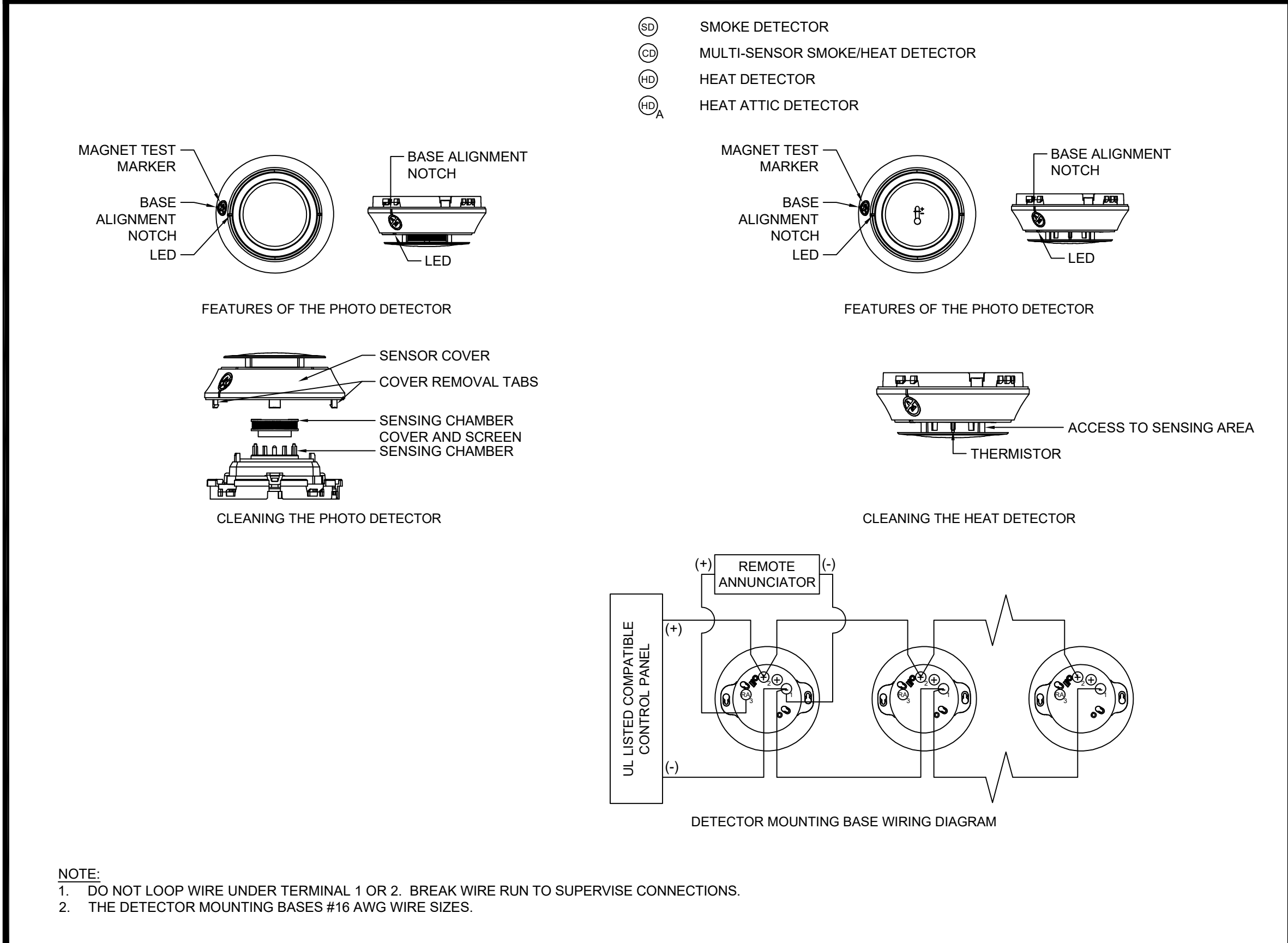
Sequence of Operation System Response	Initiating Device	MANUAL PULL STATION	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	ACTIVATION OF VOICE EVACUATION MESSAGE	SHORT CIRCUIT	BATTERY FAILURE	GROUND FAULT	120VAC POWER FAILURE
ANNUNCIATE AT FACP / ANN (ALARM)		YES	YES	YES	YES	NO	NO	NO	NO
ANNUNCIATE AT FACP / ANN (TROUBLE)		NO	NO	NO	NO	YES	YES	YES	YES
ACTIVATE RELAY FOR MONITORING (ALARM OR TROUBLE)		YES	YES	YES	NO	YES	YES	YES	YES
ACTIVATE VISUAL ALARM THROUGHOUT BUILDING		YES	YES	YES	YES	NO	NO	NO	NO
ACTIVATE AUDIBLE ALARM (3-pulse, temporal pattern) THROUGHOUT BUILDING		YES	YES	YES	YES	NO	NO	NO	NO
VOICE EVACUATION AUDIBLES /STROBES		NO	NO	NO	YES	NO	NO	NO	NO
SILENCE FIRE ALARM AUDIBLE SIGNAL		NO	NO	NO	YES	NO	NO	NO	NO
SHUT DOWN ALL AIR HANDLING (HVAC) THROUGHOUT BUILDING		NO	YES	NO	NO	NO	NO	NO	NO
OFF-SITE REPORTING		YES	YES	YES	YES	YES	YES	YES	YES



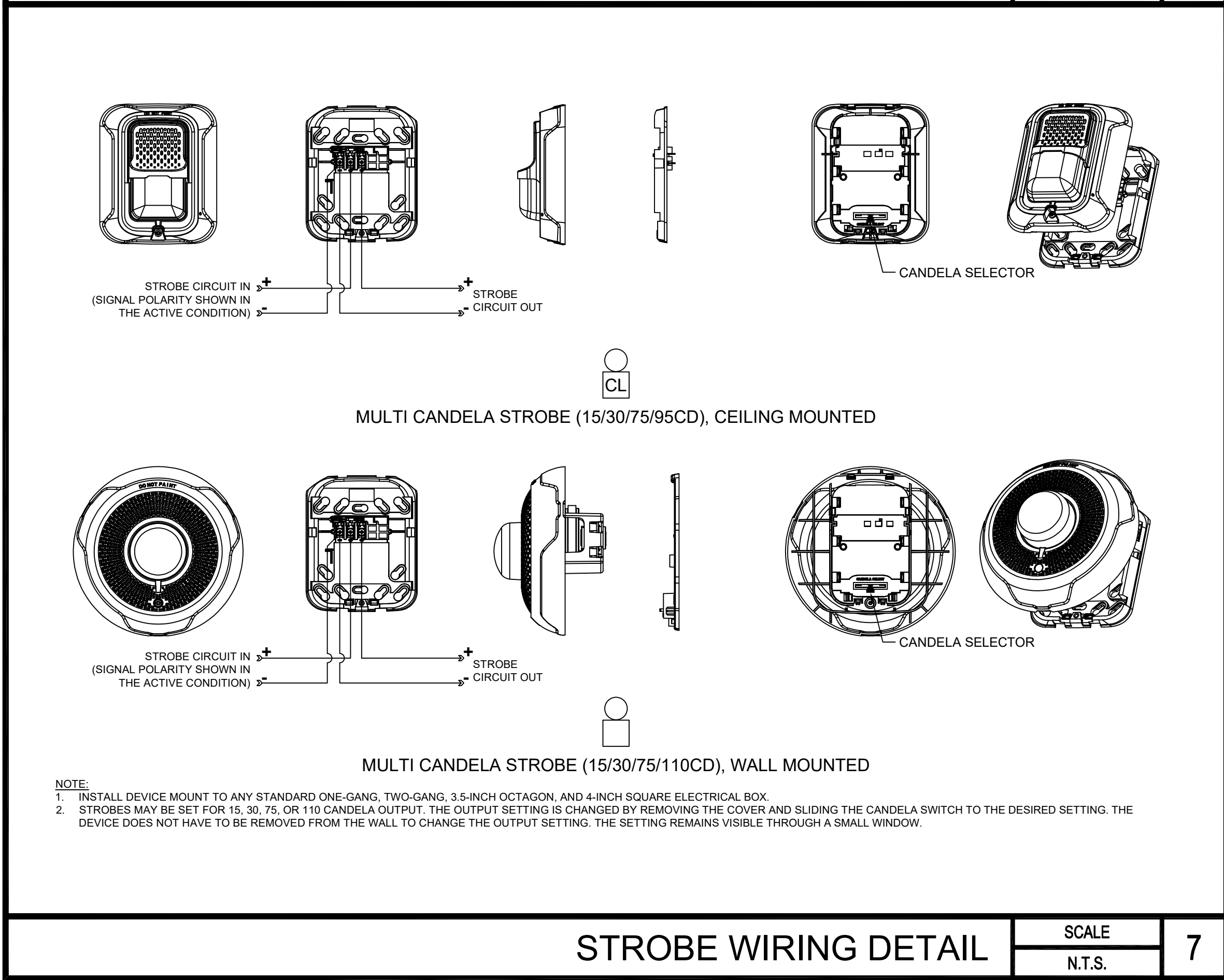
Plot Date: 9/7/2023 10:11:19 AM Last Save By: Tom Law Login: Tom Law J:\Project Files 2022\2022-030 Rosemead HS Electrical Drawings\SE\HHS-SD-RHS-GYM HVAC-E401-402.dwg



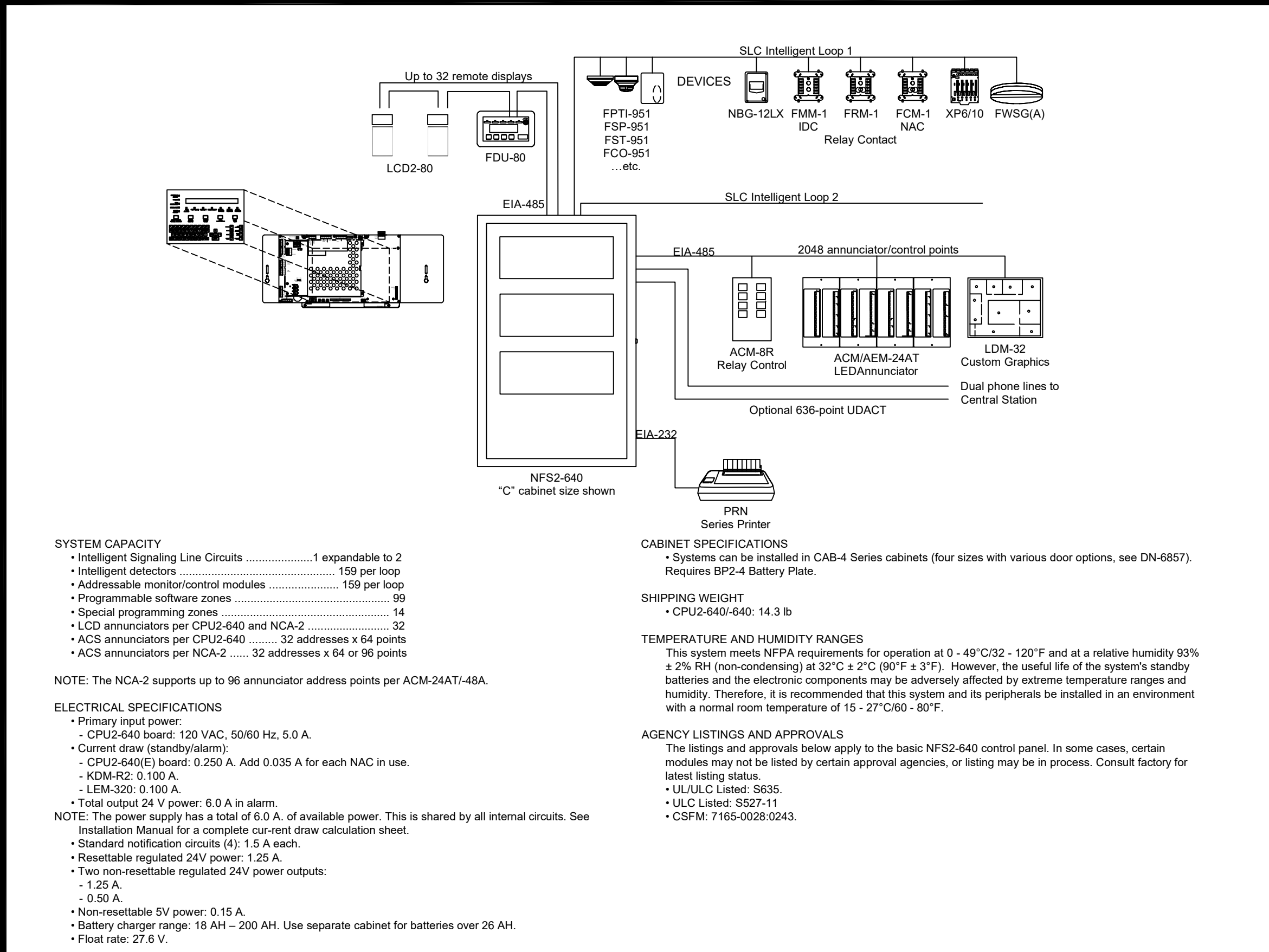
HIGH-SPEED NOTI-FIRE-NET NETWORK SYSTEM DETAIL



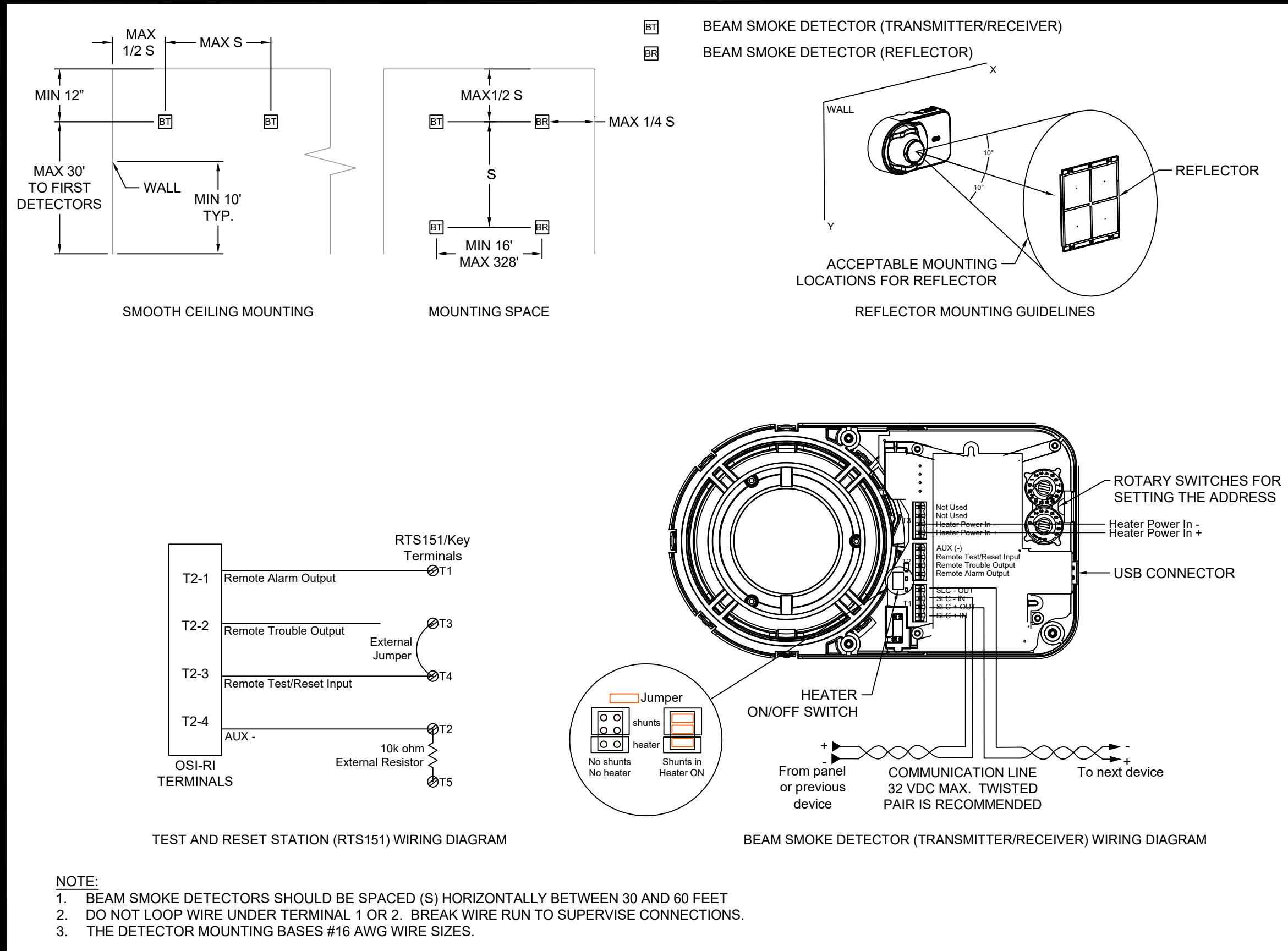
SMOKE/HEAT DETECTOR DETAIL



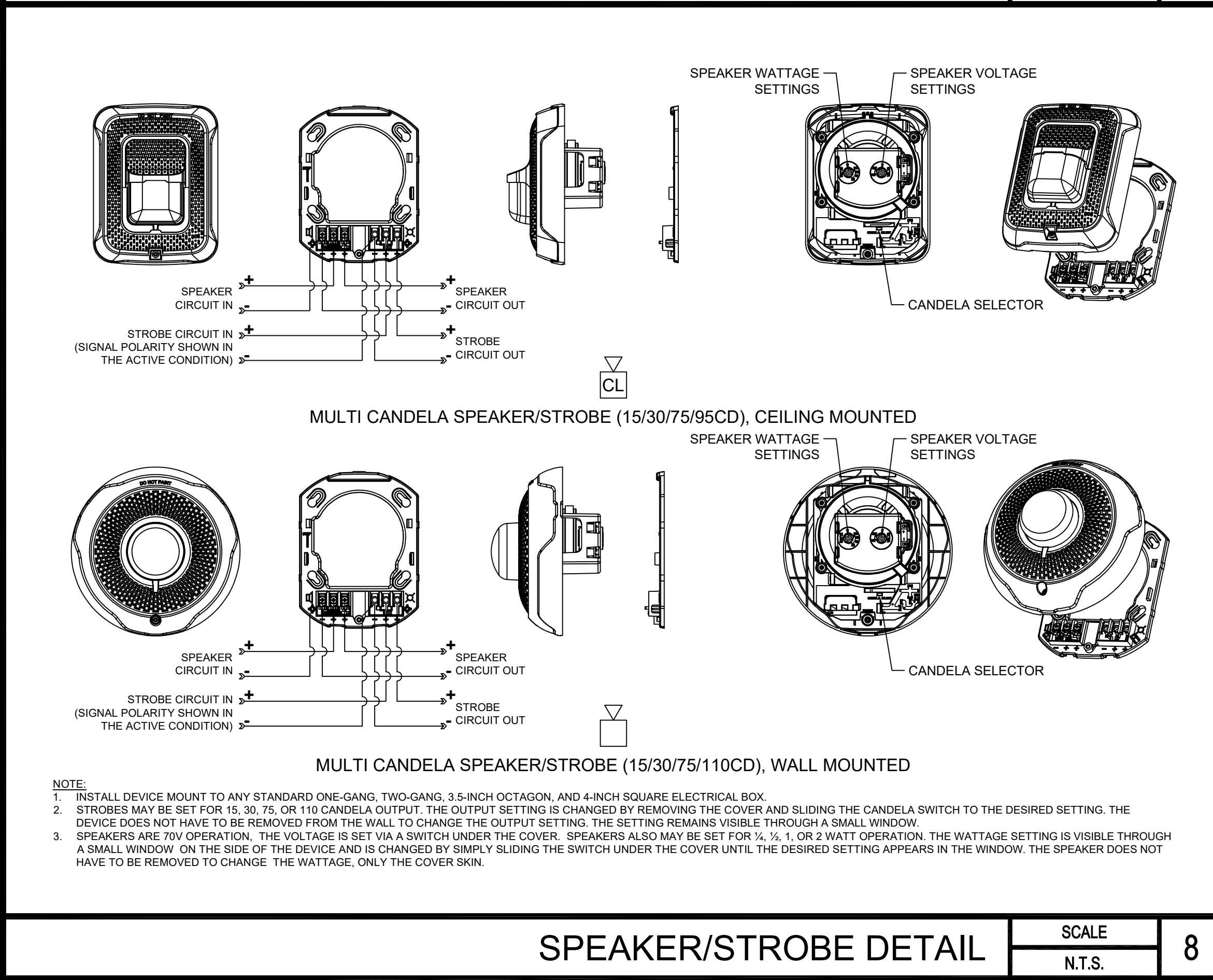
STROBE WIRING DETAIL



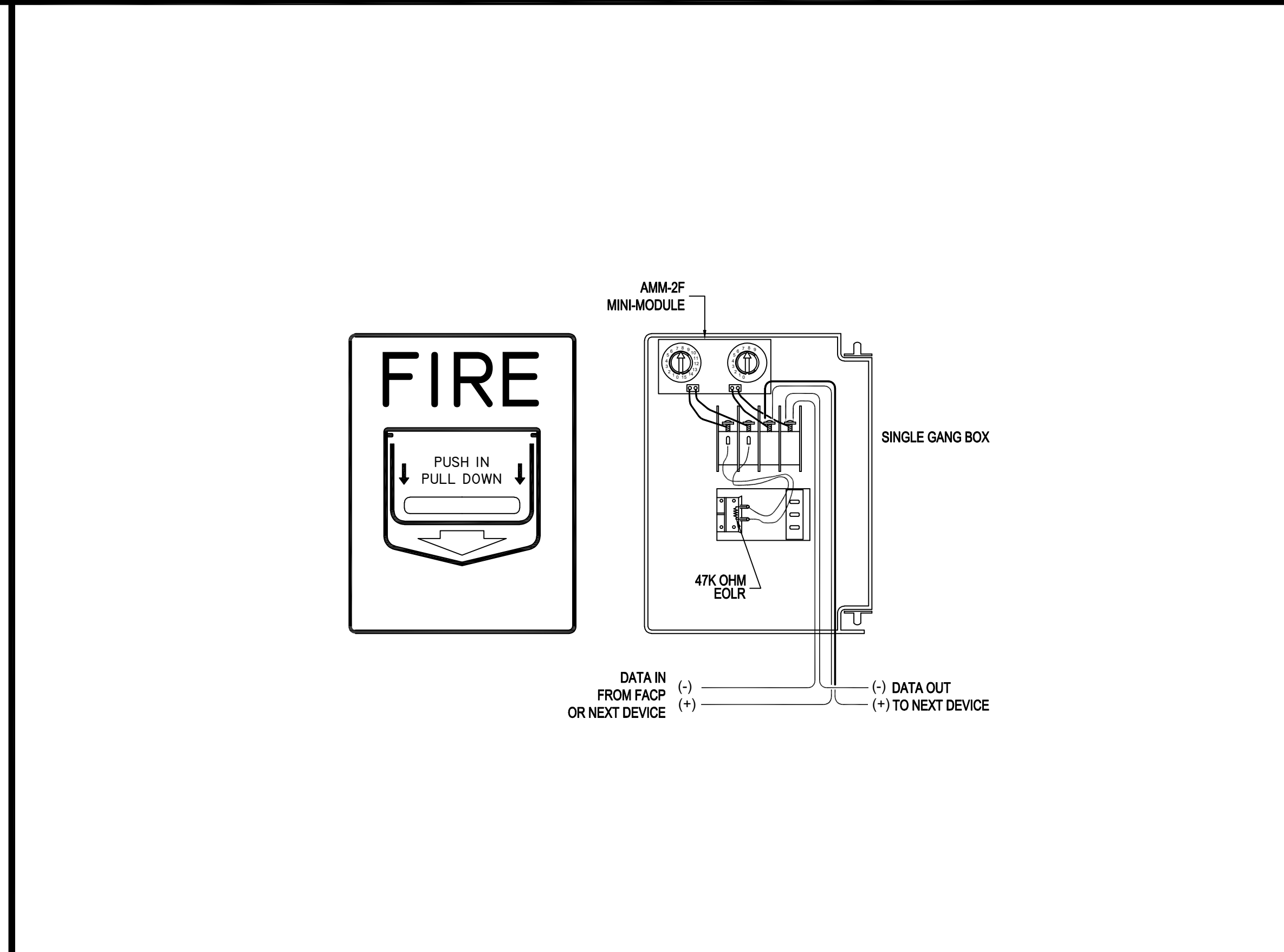
FIRE ALARM SYSTEM WIRING DETAIL



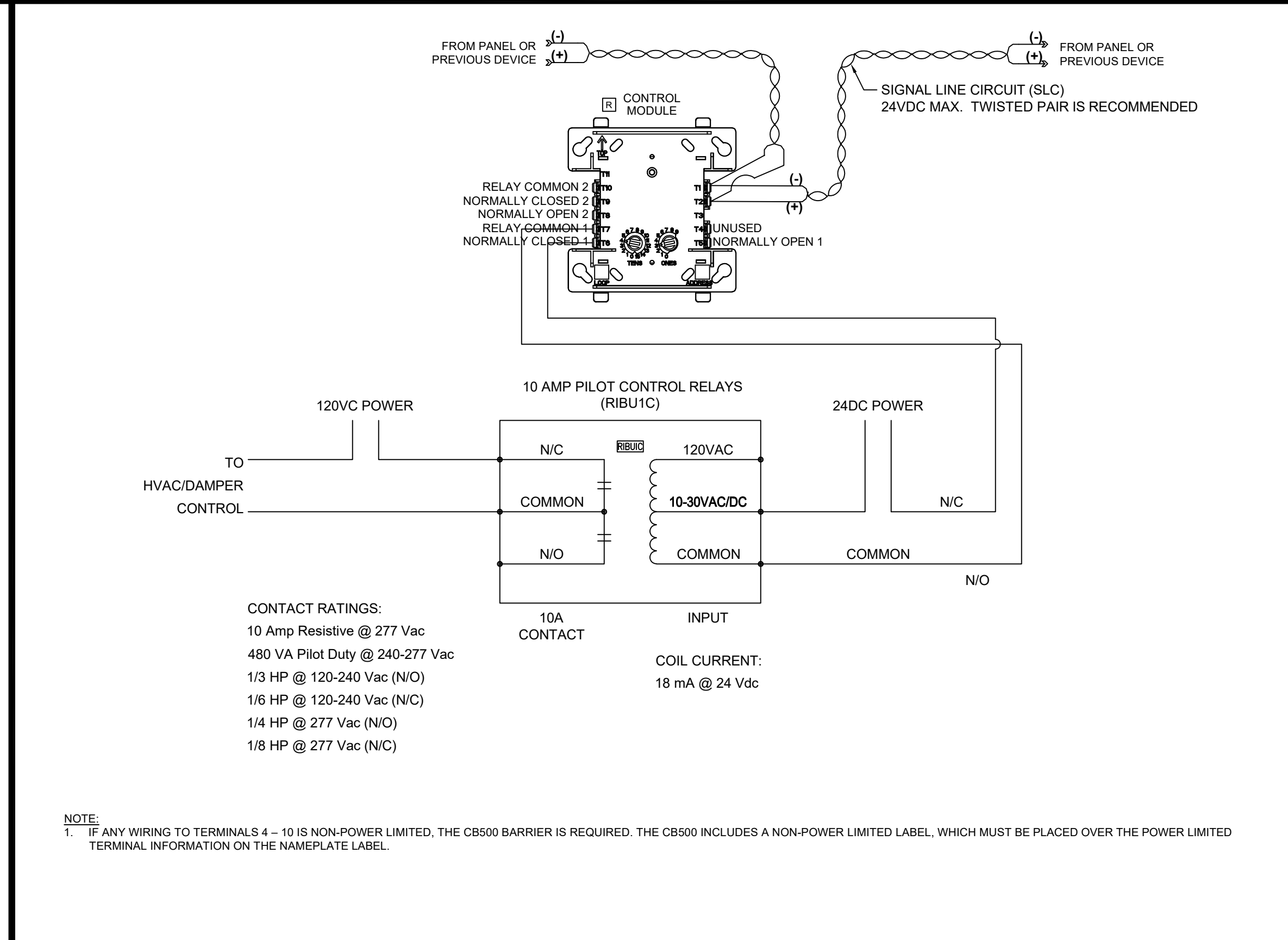
BEAM SMOKE DETECTOR DETAIL



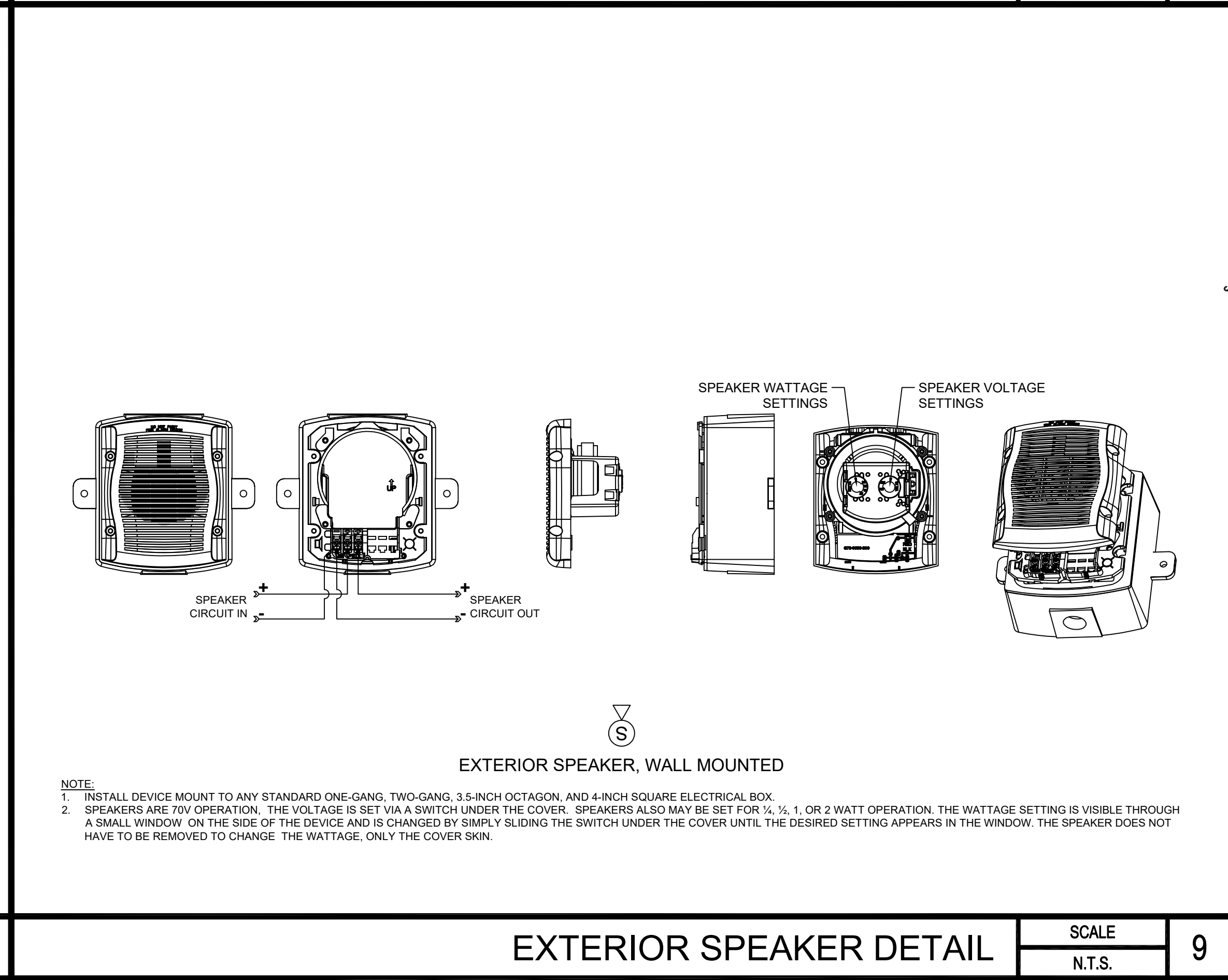
SPEAKER/STROBE DETAIL



MANUAL PULL STATION WIRING DETAIL

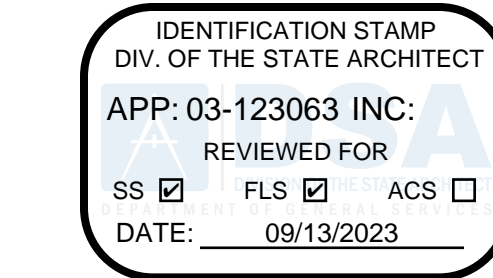


RELAY WITH 10A CONTROL RELAY WIRING DIAGRAM



EXTERIOR SPEAKER DETAIL

DSA A# 03-123063



DSA Stamp

Architect



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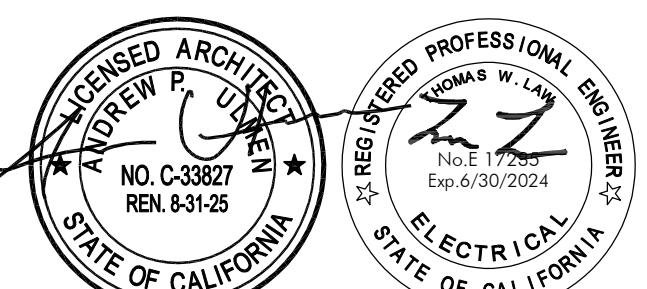
Gymnasium HVAC Replacement

Rosemead High School  
9063 Mission Drive  
Rosemead, California 91770

Rev Date Issue  
03.06.23 DSA SUBMITTAL  
09.08.23 DSA BACKCHECK  
04.08.22 ADDENDUM 1

Date: 08.18.2023  
Scale: As Shown  
Drawn By: TL  
Checked By: BA

Architect / Engineer Stamp



Consultants

Sheet Title

Electrical  
Details

Sheet Number

E401



Plot Date: 9/7/2023 10:11:24 AM User: Sava By: Tom Lam J:\Project Files 2022\2022-030 Rosemead HS\Electrical Drawings\E402-HSD-RHS-GYM HVAC-E402-402.dwg

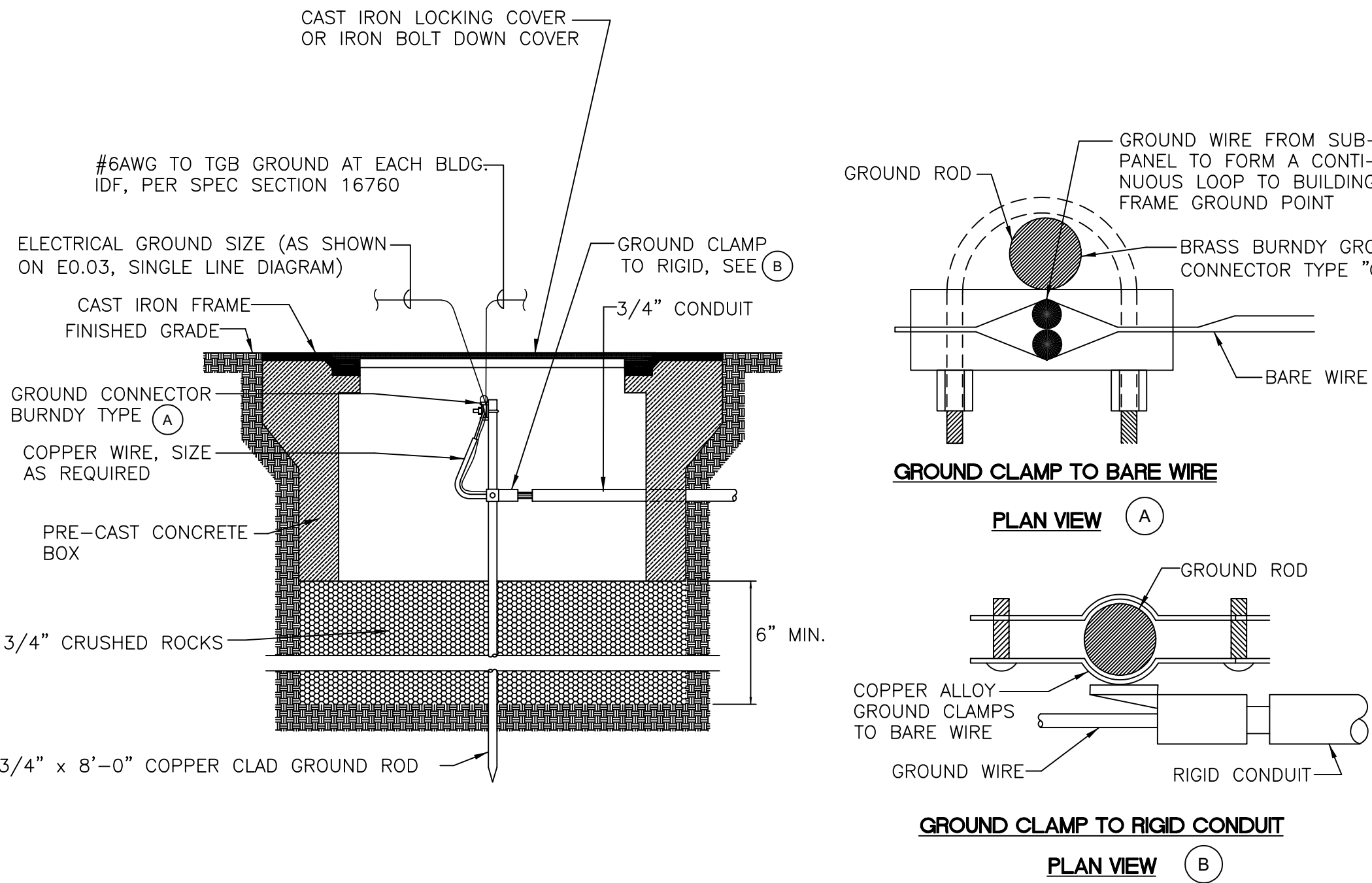
FIRE ALARM  
PANEL INSIDE

NOTE: SIGNAGE SHALL BE PLACED ON OR ADJACENT TO THE DOOR LEADING INTO FIRE ALARM PANEL LOCATION. MINIMUM 1 INCH LETTER, WITH CONTRASTING BACKGROUND OR OTHER APPROVED.

FIRE ALARM CONTROL PANEL INSIDE SIGNAGE

SCALE  
N.T.S.

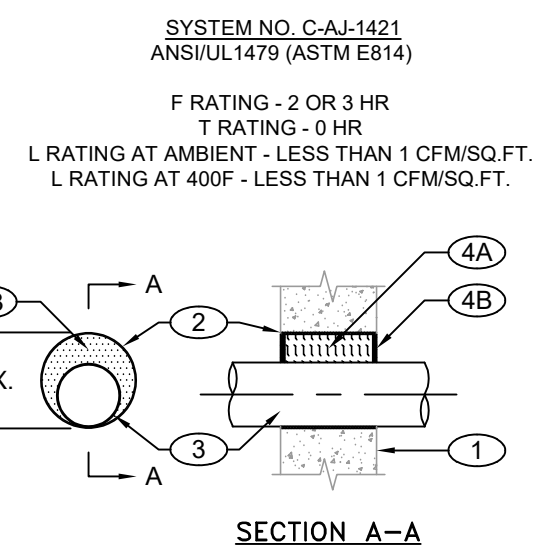
1



GROUND ROD AND CONCRETE BOX DETAIL

SCALE  
N.T.S.

4



- EXISTING CONCRETE FLOOR OR WALL.
- SEE CONCRETE BLOCKS (CAZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- CORE HOLE MAX 2 IN. DIAM. CONTRACTOR SHOULD SUBMIT PLANS TO SHOW HOLE LOCATION AND SHALL BE APPROVED BY STRUCTURE ENGINEER AND DSA PRIOR TO CORE DRILL.
- THROUGH PENETRANT - ONE METALLIC PIPE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRE-STOP SYSTEM. THE ANNUAL SPACE BETWEEN PIPE, TUBE OR CONDUIT AND PERIPHERY OF OPENING SHALL BE MIN 3 IN. (POINT CONTACT) TO MAX 2 IN. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
  - STEEL PIPE - NOM 2 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
  - IRON PIPE - NOM 2 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
  - COPPER PIPE - NOM 2 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
  - COPPER TUBING - NOM 2 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
  - CONDUIT - NOM 2 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT).
  - CONDUIT - NOM 2 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT).
- FIRE-STOP SYSTEM - THE FIRE-STOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
  - PACKING MATERIAL - MIN 2 IN. THICKNESS OF MIN 4 PCT (84 KG/M) MINERAL WOOL BAT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
  - FILL, VOID OR CAVITY MATERIAL - SEALANT - MIN 1/4 IN. (6 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL FOR 3 HR RATED ASSEMBLIES. A MIN 1/4 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE AT THE POINT CONTACT LOCATION ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL.
  - HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC. - CFS-S SIL, CG, CFS-S SIL, SL, OR FS-ONE SEALANT OR CP604 SELF-LEVELING FIRE-STOP SEALANT. CP604 AND CFS-S SIL SHALL BE USED IN FLOOR APPLICATIONS ONLY.
  - WHEN CP604, CFS-S SIL CG OR CFS-S SIL SL (FLOORS ONLY) IS USED, F RATING IS 2 HR.
- SUBMIT PLANS OR WALL ELEVATIONS WITH CORES FOR STRUCTURE ENGINEER REVIEW AND DSA APPROVAL SHOWING THE LOCATION OF EXISTING FLOOR/WALL OPENING AND ANY REQUIREMENT NON-STRUCTURE COMPONENT ATTACHED EACH SIDE. FLOOR/WALL STRENGTHENING AROUND OPENING MAY BE REQUIRED SUBJECT TO STRUCTURE ENGINEER REVIEW AND DSA APPROVAL.

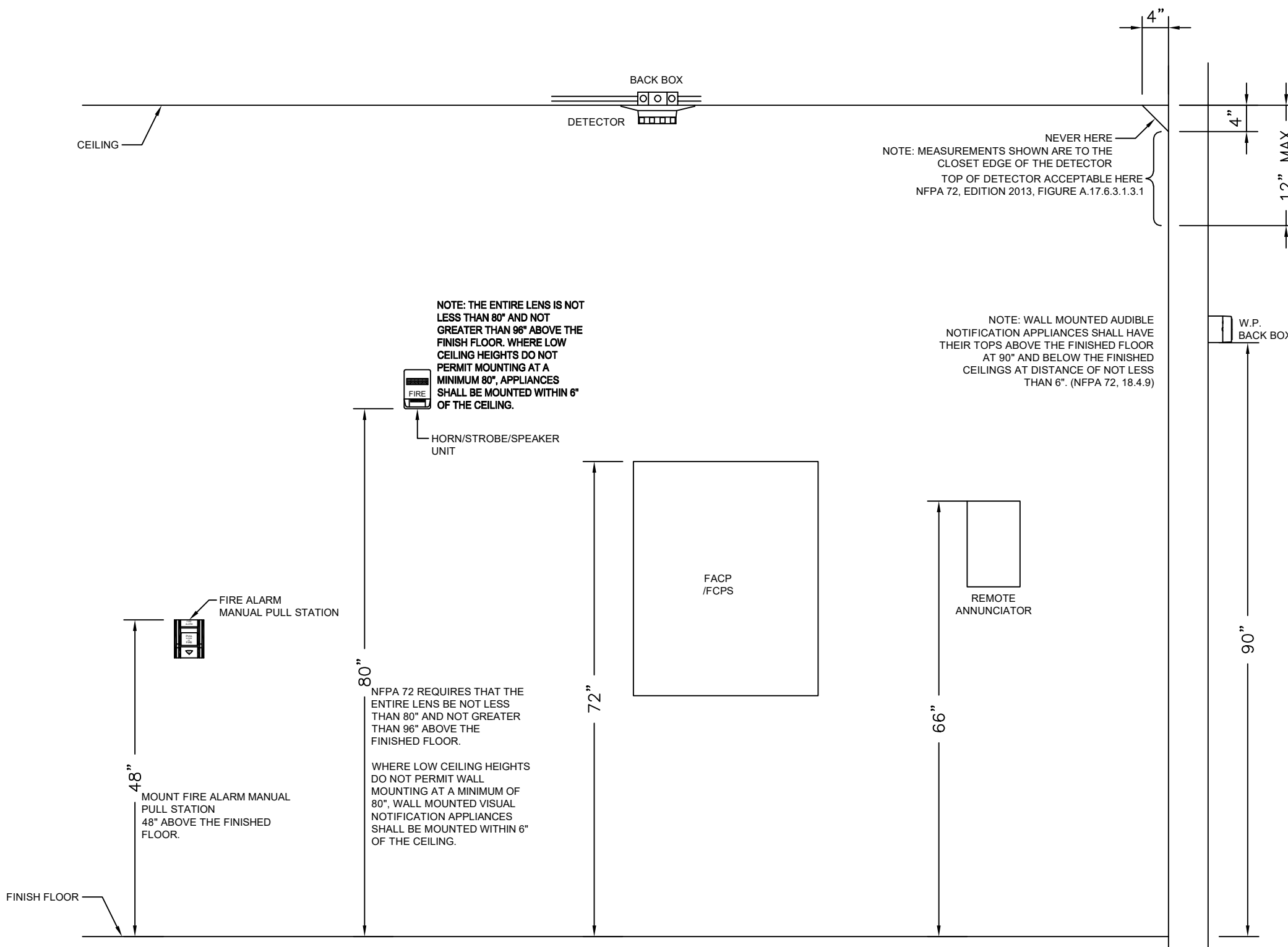
HOLES IN WALL AND FLOOR SHALL BE DONE BY CORE DRILLING ONLY. DO NOT DAMAGE REINFORCING STEEL BAR IN WALL. LOCATE BY NON-DESTRUCTIVE MEANS PRIOR TO CORING.

ALL WALL AND FLOOR PENETRATIONS MADE UNDER THIS PROJECT SHALL BE SEALED PER THE APPLICABLE DETAIL WHETHER THE WALL OR FLOOR IS KNOWN TO BE FIRE RATED OR NOT.

CONCRETE/MASONRY WALL/FLOOR PENETRATION DETAIL

SCALE  
N.T.S.

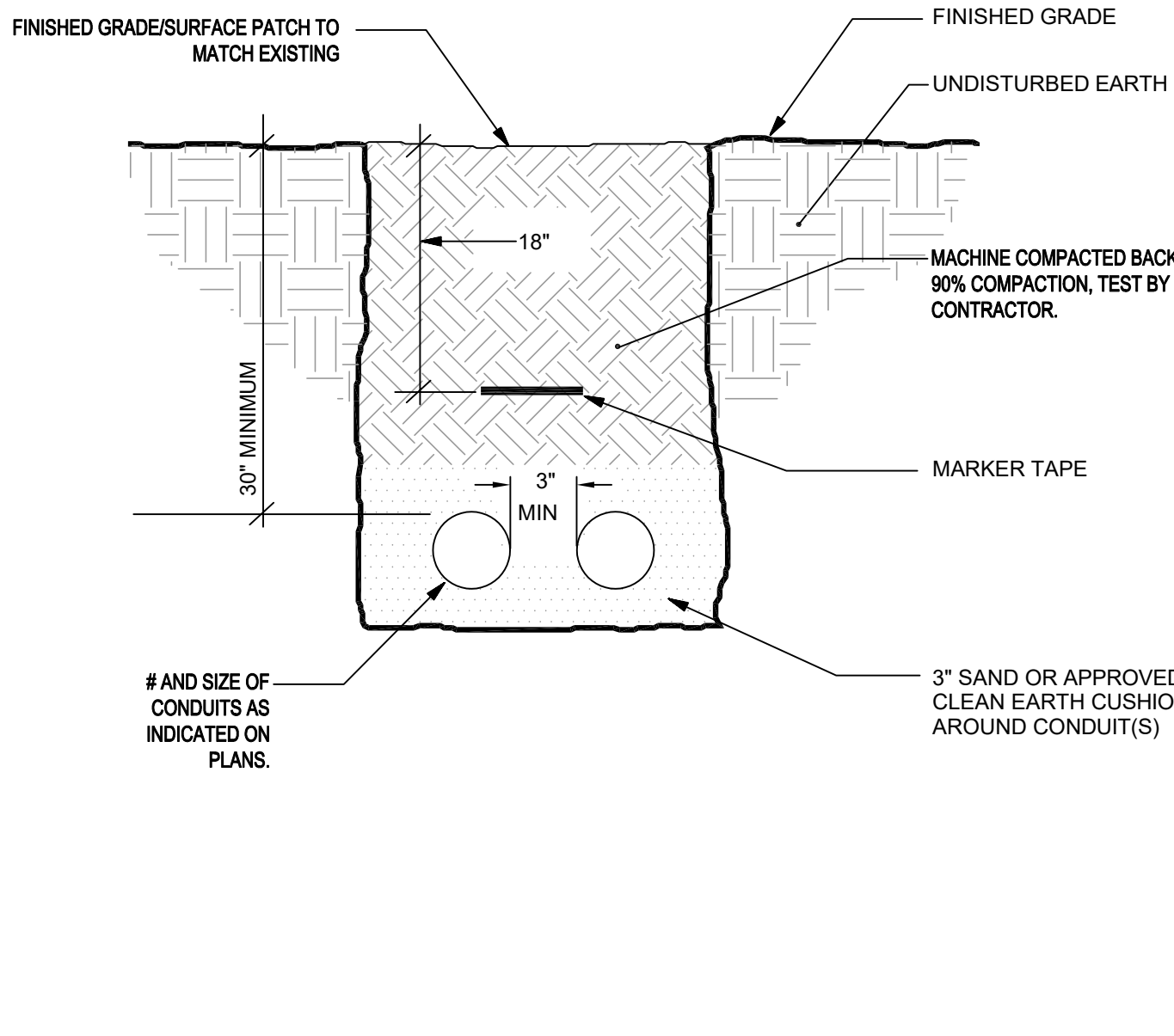
7



DEVICE ELEVATIONS

SCALE  
N.T.S.

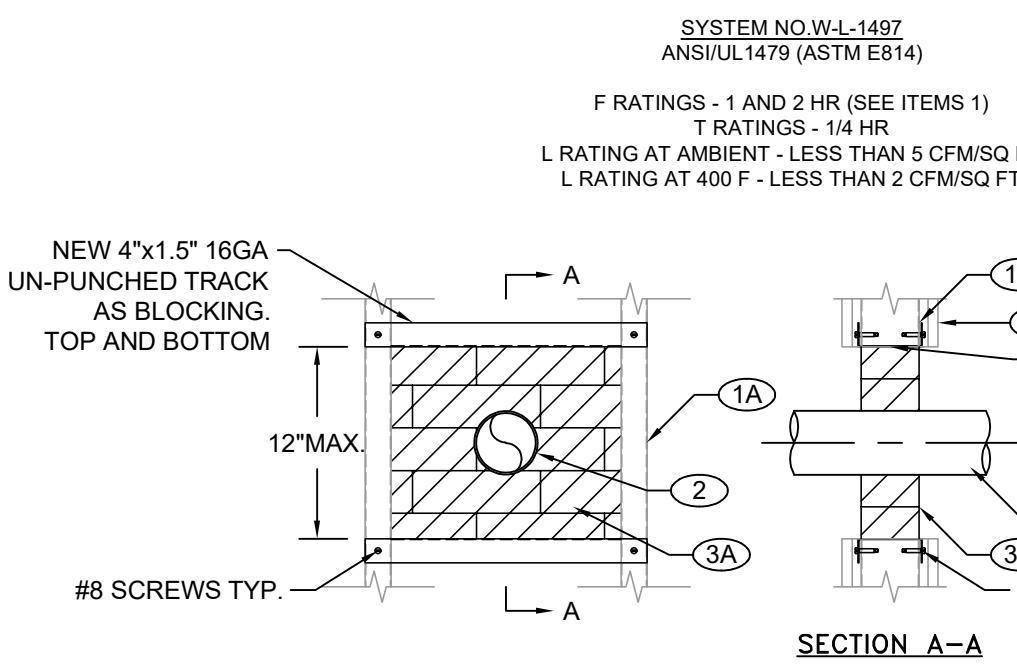
2



DUCT BANK INSTALLATION DETAIL

SCALE  
N.T.S.

5



- WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400, V400 OR W400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
  - STUDS - WALL FRAMING SHALL CONSIST OF CHANNEL SHAPED STEEL STUDS. STEEL STUDS TO BE MIN 3/8 IN. (92 MM) WIDE, SPACED MAX 16 IN. (400 MM) OC.
  - GYPSUM BOARD - NOM 5/8 IN. (16 MM) THICK, 4 FT. (1219 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX AREA OF OPENING IS 144IN<sup>2</sup> (929 CM<sup>2</sup>) WITH MAX DIMENSION OF 12 IN. (305 MM). THE HOURLY F RATING OF THE FIRE-STOP SYSTEM IS EQUAL TO THE HOURLY F RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
  - EMT TUBE - NOM 2 IN. DIAM (OR SMALLER) 1/2 IN. THICK (OR HEAVIER) EMT TUBE FOR USE IN CLOSED PROCESS OR SUPPLY PIPING SYSTEMS. ONE TUBE TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRE-STOP SYSTEM. THE ANNUAL SPACE SHALL BE MIN 2 IN. TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. DIELECTRIC SEPARATION REQUIRED BETWEEN ALUMINUM AND STEEL.
- FIRE-STOP SYSTEM - THE FIRE-STOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
  - FILL, VOID OR CAVITY MATERIAL - FIRE BLOCKS INSTALLED WITH MIN 2 IN. DIMENSION PASSING THROUGH AND CENTERED WITHIN THE OPENING. BLOCKS TO BE FIRMLY PACKED AND COMPLETELY FILL THE ENTIRE OPENING AROUND THE PENETRANT.
  - HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC. - CFS-BL FIRE-STOP BLOCK.
  - FILL, VOID OR CAVITY MATERIAL - FILL MATERIAL TO BE FORCED INTO ANY VOID/OPENINGS BETWEEN BLOCKS, AROUND PENETRANTS, AND BETWEEN BLOCKS AND PERIPHERY OF OPENING TO THE MAXIMUM EXTENT POSSIBLE ON BOTH SURFACES OF WALL.
  - HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC. - FS-ONE SEALANT, CP618 FIRE-STOP PUTTY STICK OR CP 620 FIRE FOAM (NOTE: L RATINGS APPLY ONLY WHEN FS-ONE SEALANT IS USED).
- SUBMIT PLANS OR WALL ELEVATIONS WITH CORES FOR STRUCTURE ENGINEER REVIEW AND DSA APPROVAL SHOWING THE LOCATION OF EXISTING FLOOR/WALL OPENING AND ANY REQUIREMENT NON-STRUCTURE COMPONENT ATTACHED EACH SIDE. FLOOR/WALL STRENGTHENING AROUND OPENING MAY BE REQUIRED SUBJECT TO STRUCTURE ENGINEER REVIEW AND DSA APPROVAL.

\*BEARING THE UL CLASSIFICATION MARK

ALL WALL AND FLOOR PENETRATIONS MADE UNDER THIS PROJECT SHALL BE SEALED PER THE APPLICABLE DETAIL WHETHER THE WALL OR FLOOR IS KNOWN TO BE FIRE RATED OR NOT.

GYPSUM WALL PENETRATION DETAIL

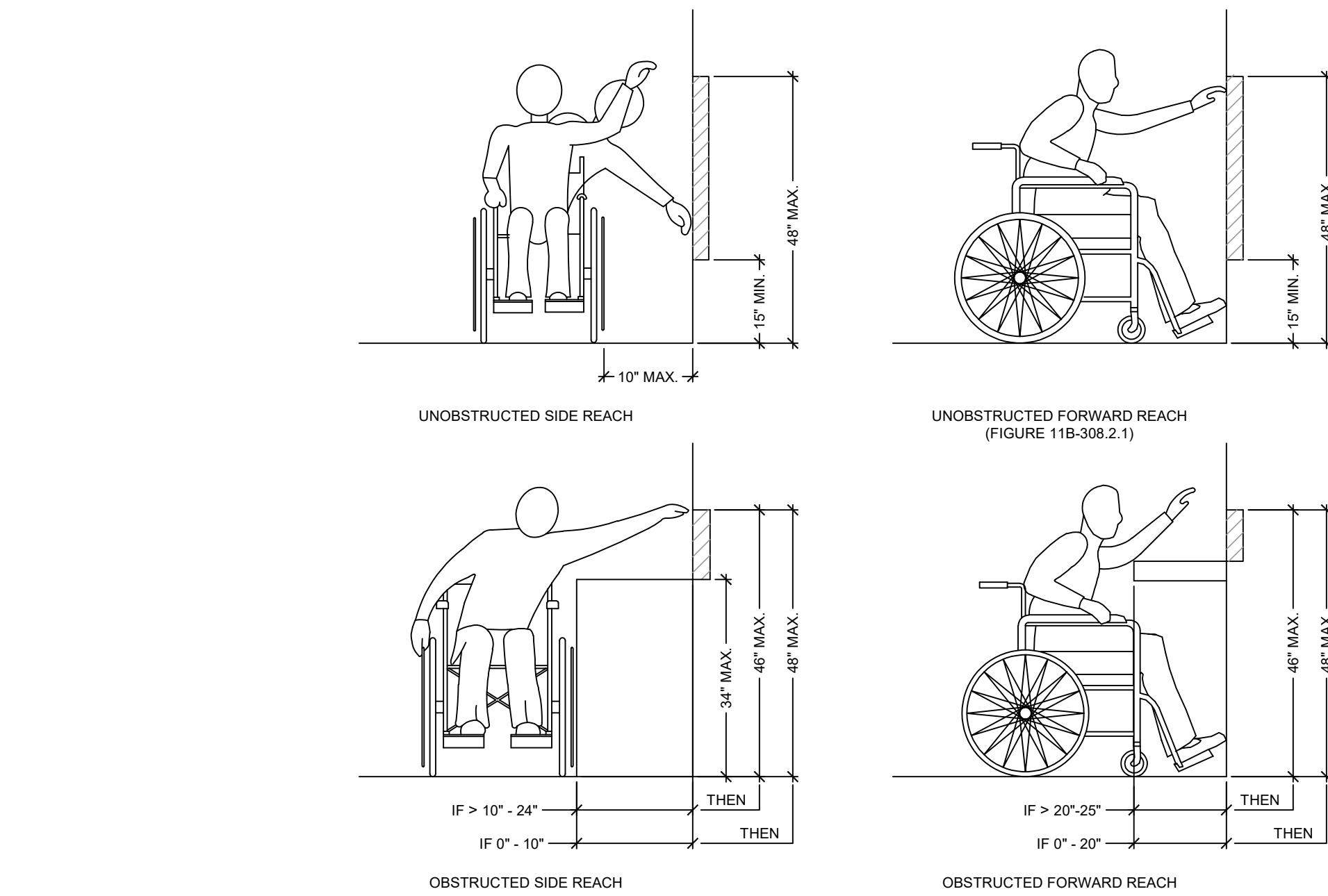
SCALE  
N.T.S.

8

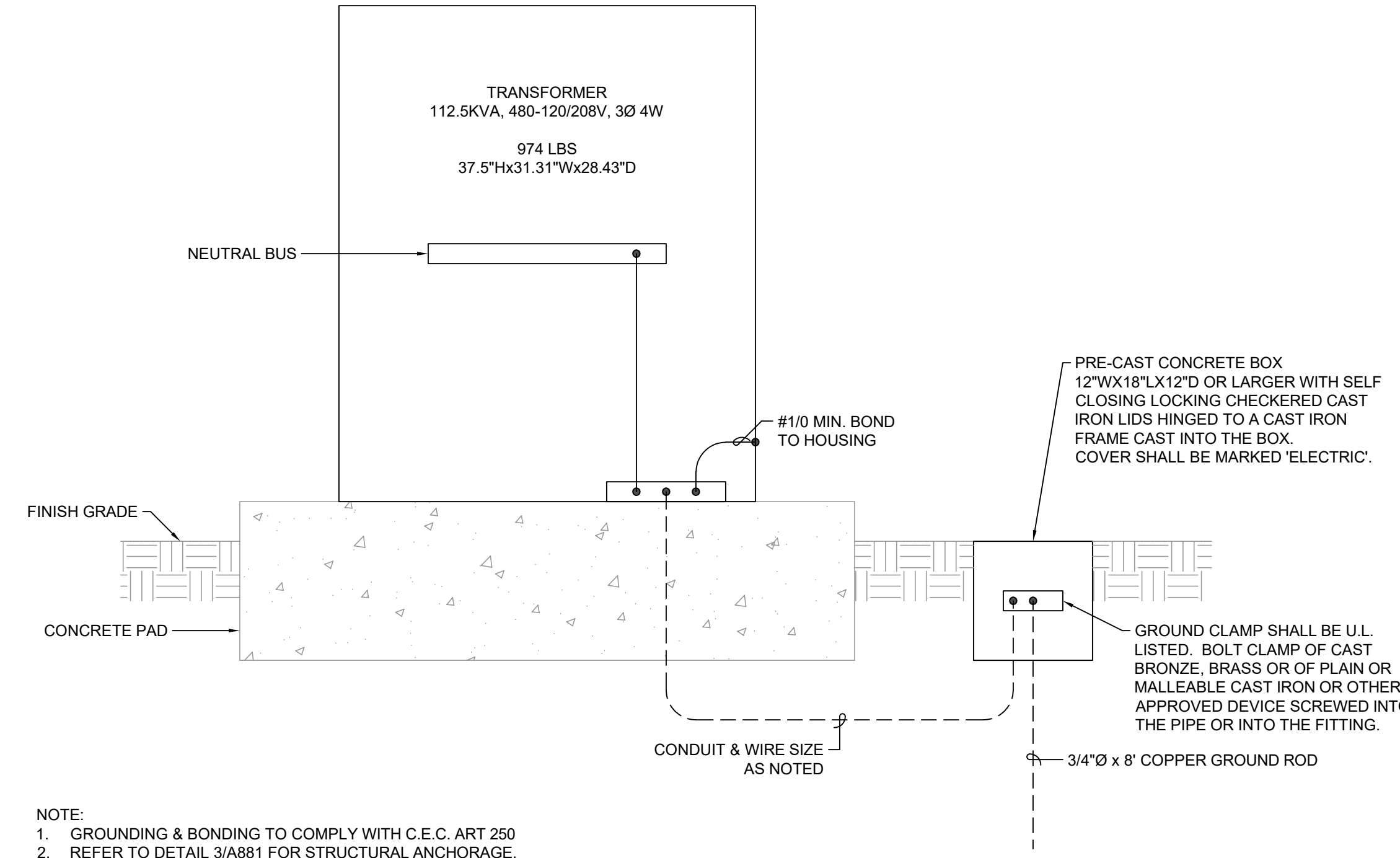
MOUNTING HEIGHT OVER OBSTRUCTION

SCALE  
N.T.S.

3



- NOTE:
- IBC2022, 11B-308.1.1 ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL COMPLY WITH SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.
  - IBC2022, 11B-308.1.2 ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTABLES SHALL COMPLY WITH SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.
  - IBC2022, 11B-309.4 OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.
  - OPERABLE PARTS CANNOT BE LOCATED WHERE A PERSON USING A WHEELCHAIR WOULD BE FORCED TO REACH OVER AN OBSTRUCTION.
  - FIRE ALARM INITIATING DEVICE MUST BE LOCATED ON PATH OF TRAVEL.
  - PROVIDE FRONT AND PARALLEL APPROACH AT NEWLY INSTALLED FIRE ALARM INITIATING DEVICE.



- NOTE:
- GROUNDING & BONDING TO COMPLY WITH C.E.C. ART 250
  - REFER TO DETAIL 3/A881 FOR STRUCTURAL ANCHORAGE.

TRANSFORMER GROUNDING DETAIL

SCALE  
N.T.S.

6

