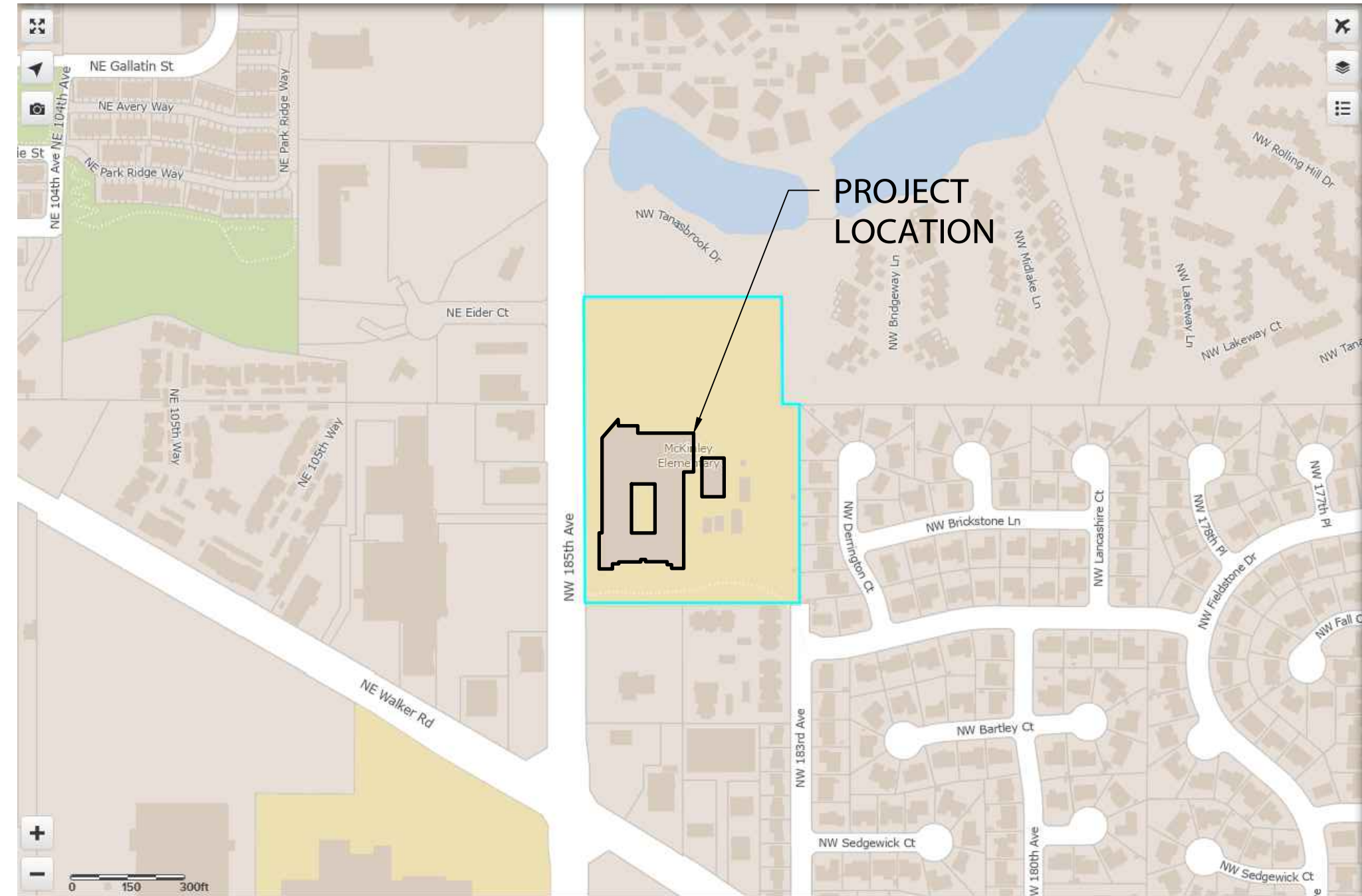


ROOFING REPLACEMENT  
BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL

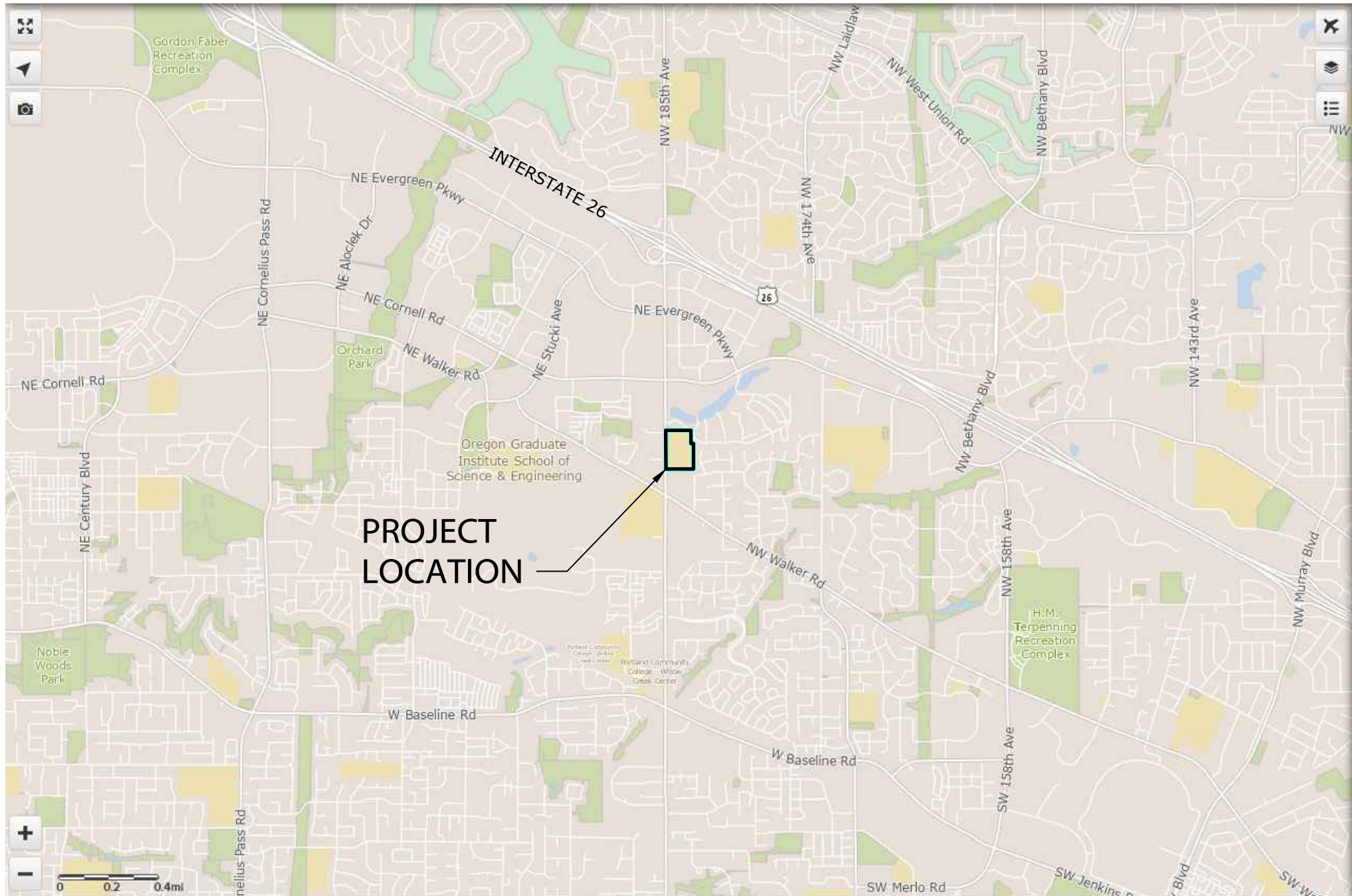
1500 NW 185TH AVE., BEAVERTON, OR 97006



REPRESENTATIONAL IMAGE. IMAGE SHOWN MAY NOT BE AN EXACT REPRESENTATION OF ACTUAL DESIGN AND CONSTRUCTION.



VICINITY MAP  
SCALE: NTS



PROJECT LOCATION MAP  
SCALE: NTS

PROJECT DESCRIPTION

ARCHITECTURAL SERVICES ASSOCIATED WITH GENERAL BUILDING CONSTRUCTION PROJECTS; RENOVATIONS AND REPAIRS AS ASSIGNED BY THE BEAVERTON SCHOOL DISTRICT IN RESPONSE TO THE VOTER APPROVED BOND MEASURE.

SEISMIC IMPROVEMENTS TO ADDRESS THE SEISMIC PERFORMANCE OF BOTH THE PRIMARY STRUCTURAL SYSTEM AND NON-STRUCTURAL ELEMENTS SUCH AS WALLS, ROOFS, AND CEILINGS. IN ADDITION TO INTERIOR WORK, THERE WILL BE A COMPLETE RE-ROOF AND ROOF-LEVEL SEISMIC STRENGTHENING. WHERE DEVICES, FURNISHINGS, AND OTHER EQUIPMENT MUST BE REMOVED TO PROVIDE ACCESS TO THE WORK, THOSE ITEMS WILL BE SALVAGED AND PROTECTED FOR REINSTALLATION WHENEVER POSSIBLE. ALL NEW FINISHES WILL BE SELECTED TO MATCH OR COMPLEMENT THE EXISTING ADJACENT FINISHES. ADDITIONALLY, THERE WILL BE NONSTRUCTURAL SEISMIC UPGRADES IN BRACING TALL, NARROW AND FALL PRONE CONTENTS, CEILINGS, PIPES, DUCTS, LIGHTS, AND EQUIPMENT IN THE BUILDING.

REMOVAL AND REPLACE THE EXISTING LOW-SLOPE BUILT UP ROOF ASSEMBLY PER ROOFING ASSESSMENT RECOMMENDATIONS WITH NEW BUILT UP ROOF ASSEMBLY WITH ADDED INSULATION. WORK INCLUDES NEW ASSOCIATED FLASHINGS, GUTTERS, DOWNSPOUTS, FASCIAS, CURBS AND COUNTER FLASHING FOR MECH. EQUIPMENT, NEW SKYLIGHTS, ROOF ACCESS LADDER, ROOF HATCH GUARDRAIL AND FALL RESTRAINT SYSTEM IDENTIFIED ON PLANS. CONTRACTOR TO REPLACE EXISTING ROOF SYSTEMS DAMAGED FROM WATER INTRUSION AS REQUIRED FOR NEW SCOPE OF WORK INCLUDING, BUT NOT LIMITED, TO SHEATHING, INSULATION, CURBS, BLOCKING, ROOF FLASHING, ETC.

PROJECT INFORMATION

ADDRESS:	1500 NW 185TH AVE. BEAVERTON, OR 97006
PROPERTY ID:	W341960
STATE ID:	1N131BC - 07900
COUNTY:	WASHINGTON
JURISDICTION:	CITY OF BEAVERTON
FIRE DISTRICT:	TUALATIN VALLEY FIRE & RESCUE
DESCRIPTION OF USE:	ELEMENTARY SCHOOL
OCCUPANCY CLASSIFICATION:	EDUCATION (E)
AREA (APPROX.):	PROPERTY: 9.94 ACRES (PORTLAND MAPS) BUILDING: 61,265 S.F. (PORTLAND MAPS)
YEAR BUILT:	1956, 1962, 1964, 1970, 1974, 2008, 1992

DEFERRED PERMIT (DESIGN BUILD) ITEMS

FOR DEFERRED PERMIT ITEMS, SEE NO. 20 UNDER GENERAL NOTES ON SHEET G-001.

PROJECT TEAM

OWNER:	BEAVERTON SCHOOL DISTRICT 48 16550 SW MERLO ROAD BEAVERTON, OR 97003 PHONE: (503) 356-4500
PROJECT MANAGER:	BEAVERTON SCHOOL DISTRICT 48 FACILITIES DEVELOPMENT 16550 SW MERLO ROAD BEAVERTON, OR 97003 PHONE: (503) 356-4500 CONTACT: CHRISTOPHER HANSEN
ARCHITECT:	AXIS DESIGN GROUP ARCHITECTURE & ENGINEERING, INC. 11104 S.E. STARK STREET PORTLAND, OR 97216 PHONE: (503) 284-0988 CONTACT: STEVEN EGGLESTON
ROOFING CONSULTANT:	CERTA BUILDING SOLUTIONS, INC. 1510 SE 44TH AVE, STE 102 PORTLAND, OR 97215 PHONE: (206) 941-6953 CONTACT: DAN RUNDLE
STRUCTURAL ENGINEER:	HOLMES 555 SE MLK JR BOULEVARD, STE 602 PORTLAND, OR 97214 PHONE: (503)673-9323 CONTACT: JENNIFER EGGERS
MEP ENGINEER:	PAE ENGINEERS 522 SW 5TH AVE, SUITE 1500 PORTLAND, OREGON 97204 PHONE: (503) 542-0540 CONTACT: ROBERT SMITH

APPLICABLE CODES

WORK TO COMPLY WITH CURRENT FEDERAL, STATE, COUNTY, CITY BUILDING & ADA CODES & REGULATIONS.

OREGON BUILDING CODES:

- 2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
- 2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC)
- 2019 OREGON FIRE CODE (OFC)
- 2019 OREGON MECHANICAL SPECIALTY CODE (OMSC)
- 2021 OREGON PLUMBING SPECIALTY CODE (OPSC)
- 2021 OREGON ELECTRICAL SPECIALTY CODE (OESC)

SEPARATE PERMITS (DESIGN BUILD) ITEMS

FOR SEPARATE PERMITS PROCEDURE, SEE NO. 20 UNDER GENERAL NOTES ON SHEET G-001.

- ROOFTOP CABLE FALL PROTECTION SYSTEM: DESIGN OF FALL PROTECTION SYSTEM, INCLUDING ANALYSIS OF ALL COMPONENTS INCLUDING BUT NOT LIMITED TO BRACKETS, SUPPORTS AND ANCHORS.
- DESIGN OF SEISMIC COMPONENT OF STRUCTURAL SUPPORTS AND ANCHORS FOR:
  - EQUIPMENT, DUCTWORK, POWER & SIGNAL RACEWAYS & BOXES, LIGHTING, COMMUNICATION PATHWAYS AND OTHER ITEMS INDICATED ON THE DRAWINGS.
- SEISMIC CONTROLS: HVAC PIPING AND EQUIPMENT.
- SEISMIC CONTROLS: RACEWAYS AND ELECTRICAL EQUIPMENT

		ISSUED LOG	
		100% SD	100% DD
SHEET INDEX			
SHEET NO.	SHEET TITLE		
GENERAL			
G-000	SHEET INDEX, PROJECT DESCRIPTION AND PROJECT INFO.		X
G-001	GENERAL NOTES		X
STRUCTURAL			
S-001	GENERAL STRUCTURAL NOTES		X
S-002	GENERAL STRUCTURAL NOTES, CONTINUED		X
S-010	SPECIAL INSPECTIONS AND TESTING REQUIREMENTS		X
S-101	BUILDING YEAR PLAN		X
S-102	PERFORMANCE OBJECTIVE PLAN		X
S-121.1	FOUNDATION / FLOOR FRAMING PLAN - SECTOR 1		X
S-121.2	FOUNDATION / FLOOR FRAMING PLAN - SECTOR 2		X
S-121.3	FOUNDATION / FLOOR FRAMING PLAN - SECTOR 3		X
S-121.4	FOUNDATION / FLOOR FRAMING PLAN - SECTOR 4		X
S-161.1	ROOF FRAMING PLAN - SECTOR 1		X
S-161.2	ROOF FRAMING PLAN - SECTOR 2		X
S-161.3	ROOF FRAMING PLAN - SECTOR 3		X
S-161.4	ROOF FRAMING PLAN - SECTOR 4		X
S-501	CONCRETE DETAILS		X
S-701	STEEL FRAMING DETAILS		X
S-801	WOOD FRAMING DETAILS		X
S-802	WOOD FRAMING DETAILS		X
ARCHITECTURAL			
A-011	ABBREVIATIONS, SYMBOLS & MAT HATCHES		X
A-121	OVERALL FLOOR PLAN		X
A-121.1	ENLARGED FLOOR PLAN - SECTOR 1		X
A-121.2	ENLARGED FLOOR PLAN - SECTOR 2		X
A-121.3	ENLARGED FLOOR PLAN - SECTOR 3		X
A-121.4	ENLARGED FLOOR PLAN - SECTOR 4		X
A-151	OVERALL RCP		X
A-151.1	ENLARGED RCP - SECTOR 1		X
A-151.2	ENLARGED RCP - SECTOR 2		X
A-151.3	ENLARGED RCP - SECTOR 3		X
A-151.4	ENLARGED RCP - SECTOR 4		X
A-161	OVERALL ROOF PLAN		X
A-161.1	ENLARGED ROOF PLAN - SECTOR 1		X
A-161.2	ENLARGED ROOF PLAN - SECTOR 2		X
A-161.3	ENLARGED ROOF PLAN - SECTOR 3		X
A-161.4	ENLARGED ROOF PLAN - SECTOR 4		X
A-221	EXTERIOR ELEVATIONS		X
A-222	INTERIOR ELEVATIONS		X
A-223	INTERIOR ELEVATIONS		X
MECHANICAL			
M-121	OVERALL FLOOR PLAN		X
M-161	OVERALL ROOF PLAN		X
PLUMBING			
ELECTRICAL			
E-121	OVERALL FLOOR PLAN		X
E-151.4	ENLARGED RCP - SECTOR 4		X
E-161	OVERALL ROOF PLAN		X
LEGEND: x = ISSUED AS PART OF SET o = NOT PART OF ISSUED SET * = ISSUED FOR INFORMATION ONLY			

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APPROVAL OF AXIS DESIGN GROUP.



SEISMIC IMPROVEMENTS AND ROOFING REPLACEMENT  
BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL  
1500 NW 185TH AVE.  
BEAVERTON, OR 97006



REVISIONS		
No.	Description	Date

DRAWN BY: SEE
CHECKED BY: SEE
JOB NO: 22-002 BSD Mikes
DATE: 04/22/2022
ISSUED FOR: 100% DESIGN DEVELOPMENT
SHEET TITLE
SHEET INDEX,
PROJECT DESCRIPTION AND
PROJECT INFORMATION
SHEET NO.

G-000



GENERAL STRUCTURAL NOTES

THE FOLLOWING IS INTENDED AS A SUMMARY SPECIFICATION. REFER TO THE PROJECT SPECIFICATION FOR FULL DETAILS. NOTIFY THE ARCHITECT WHERE THERE IS A CONFLICT BETWEEN THE PROJECT SPECIFICATION AND THE STRUCTURAL GENERAL NOTES.

SCOPE OF WORK: THIS PROJECT INVOLVES A VOLUNTARY STRENGTHENING OF BUILDING SYSTEM. SEISMIC STRENGTHENING IS IN ACCORDANCE WITH ASCE 41-17 BPOE (RC-III AND IV: BSE-1E & BSE-2E, USING 75% CAP FROM BSE-1N AND BSE-2N PER SEISMIC REHABILITATION GRANT PROGRAM REQUIREMENTS.

GOVERNING CODE:

THE STRUCTURAL DESIGN OF BUILDING COMPONENTS DESCRIBED ON THESE DRAWINGS IS IN ACCORDANCE WITH ASCE 41-17 AS NOTED ABOVE AND PER THE 2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC) REQUIREMENTS.

LIMITATIONS:

THE LATERAL FORCE RESISTING SYSTEM SHOWN ON THESE DRAWINGS IS DESIGNED TO ACHIEVE MINIMUM REQUIRED STANDARDS FOR STRUCTURAL SEISMIC RESISTANCE, AND IS INTENDED TO REDUCE THE RISK OF LIFE LOSS OR INJURY. THIS WORK WILL NOT NECESSARILY PREVENT LOSS OF LIFE OR INJURY, NOR PREVENT EARTHQUAKE DAMAGE TO NEW OR REHABILITATED BUILDINGS.

1. GENERAL

MATERIALS AND WORKMANSHIP TO CONFORM TO THE BUILDING CODE DEFINED ABOVE AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

- A. THESE NOTES APPLY TO ALL DRAWINGS AND GOVERN UNLESS OTHERWISE NOTED OR SPECIFIED. WHENEVER THERE APPEARS TO BE A CONFLICT BETWEEN THE NOTES, DRAWINGS, OR SPECIFICATIONS, CONTACT THE ENGINEER FOR CLARIFICATION.
- B. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND PROPOSED DIMENSIONS AT JOB SITE. COMPARE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS BEFORE COMMENCING WORK. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES IN A REASONABLE AND TIMELY MANNER. DO NOT PROCEED WITH AFFECTED WORK UNTIL DISCREPANCIES ARE RESOLVED. DO NOT SCALE DRAWINGS.
- C. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.
- D. DETAILS NOTED AS "TYPICAL" IN THEIR TITLE OR ON SHEETS TITLED "TYPICAL DETAILS" APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. SUCH DETAILS ARE NOT NOTED AT EACH LOCATION THAT THEY OCCUR.
- E. ALL ELEMENTS INDICATED ON THE DRAWINGS SHALL BE ASSUMED "NEW" UNLESS OTHERWISE NOTED.
- F. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE AT ALL TIMES FOR THE CONDITIONS OF THE JOB SITE, INCLUDING, BUT NOT LIMITED TO:
- a) SAFETY OF PERSONS, PROPERTY AND STRUCTURES,
  - b) MEANS, METHODS, PROCEDURES, TECHNIQUES OR SEQUENCES OF CONSTRUCTION,
  - c) COMPLIANCE WITH APPLICABLE CALIFORNIA REQUIREMENTS AND GUIDELINES,
  - d) ALL NECESSARY INDEPENDENT ENGINEERING REVIEWS OF THESE CONDITIONS.

THE CONTRACTOR SHALL BRACE OR SHORE THE CONSTRUCTION AS REQUIRED TO PROVIDE A SAFE AND TRUE STRUCTURE. WHERE BRACING OR SHORING IS INDICATED IN THE DRAWINGS, IT IS DONE SO ONLY AS A COURTESY TO THE CONTRACTOR AND SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COORDINATE THE WORK WITH THE AFOREMENTIONED PROVISIONS. THE ARCHITECT'S OR ENGINEER'S JOB SITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.

2. SUBMITTALS

- A. SUBMIT (1) HARDCOPY OR ELECTRONIC PORTABLE DOCUMENT FORMAT (PDF) COPY OF REQUIRED SUBMITTALS TO OWNER'S REPRESENTATIVE FOR REVIEW. SUBMIT IN ACCORDANCE WITH DIVISION 1 OF THE SPECIFICATIONS. MULTIPLE COPIES OF THE SAME SUBMITTAL WILL NOT BE RETURNED. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR MAKING ANY ADDITIONAL COPIES OF REVIEWED SUBMITTALS, AS MAY BE REQUIRED. THE ENGINEER SHALL HAVE 15 WORKING DAYS FROM DATE OF RECEIPT TO COMPLETE AND RETURN THE SUBMITTAL REVIEW.
- B. SUBSTITUTION REQUESTS SHALL DEMONSTRATE THE REQUESTED SUBSTITUTION'S ABILITY TO MEET OR EXCEED THE REQUIREMENTS OF THE ORIGINALLY SPECIFIED ITEM. THE REQUEST SHALL ALSO INCLUDE A ROUGH COST SAVINGS ESTIMATE TO THE OWNER, REFERENCES TO DETAILS WHERE SUBSTITUTION IS PROPOSED TO BE APPLIED, AND ALL SUPPORTING DOCUMENTATION REQUIRED FOR THE ITEM BY THIS SECTION OF THE NOTES.
- C. SHOP DRAWINGS, MILL CERTIFICATES, AND/OR OTHER RELEVANT CERTIFICATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BEFORE FABRICATION, FOR THE ITEMS LISTED BELOW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL SHOP DRAWINGS WITH ALL TRADES AND FIELD CONDITIONS.

NOTE: SUBMITTING COPIES OF THE STRUCTURAL DRAWINGS IS UNACCEPTABLE AND WILL BE REJECTED FOR COMPLETE REVISION. WHERE NEW STRUCTURAL ELEMENTS ARE LOCATED WITHIN AN EXISTING STRUCTURE, SHOP DRAWINGS SHALL INCLUDE THE COORDINATION OF THE NEW STRUCTURAL ELEMENTS WITH THE EXISTING STRUCTURAL AND ARCHITECTURAL ELEMENTS. ALL SHOP DRAWING SUBMITTALS SHALL CLEARLY IDENTIFY THE SET-OUT OF NEW STRUCTURAL ELEMENTS RELATIVE TO THE RELEVANT PORTIONS OF THE EXISTING STRUCTURE, EXTENT OF ANY REQUIRED DEMOLITION, AND SHALL COORDINATE ALL OF THE RELEVANT TRADES.

- 1) STRUCTURAL AND MISCELLANEOUS STEEL
- a. MILL CERTIFICATIONS FOR ALL STEEL AND ALL FASTENERS.
  - b. SHOP DRAWINGS INCLUDING AT A MINIMUM ASTM MATERIAL DESIGNATIONS, MEMBER SIZES, SIZES AND TYPES OF WELDS, SIZES AND TYPES OF BOLTS, AND DIMENSIONS.
  - c. WELD PROCEDURE SPECIFICATIONS FOR EACH TYPE OF WELD TO BE USED AND PRODUCT DATA FOR WELDING FILLER METAL.
  - d. MANUFACTURER'S PRODUCT DATA FOR PRIMER AND FINISH PAINT, INCLUDING COLOR CHARTS.
  - e. CONTRACTOR SHALL ESTABLISH AND VERIFY REQUIRED TOP OF STEEL (T.O.S.) ELEVATIONS, WHETHER INDICATED ON THE DRAWINGS OR NOT, AGAINST ARCHITECTURAL FINISHED FLOOR AND ROOF ELEVATIONS, AND THE STRUCTURAL DETAILS, INCLUDING ANY SPECIFIED OFFSET OR PRE-CAMBER.
  - f. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- 2) REINFORCING STEEL
- a. MATERIAL CERTIFICATES FOR REINFORCING STEEL.
  - b. DRAWINGS FOR FABRICATION, BENDING, AND PLACEMENT OF REINFORCING STEEL IN ACCORDANCE WITH ACI 315.
- 3) CAST-IN-PLACE CONCRETE AND SHOTCRETE
- a. MIX DESIGNS FOR EACH TYPE OF CONCRETE ON THE PROJECT INCLUDING RESULTS OF SLUMP, COMPRESSION, AND SHRINKAGE TESTS AND OTHER PROJECT SPECIFIC CRITERIA
  - b. MATERIAL CERTIFICATES
  - c. PROPOSED CONSTRUCTION AND CONTROL JOINT LOCATIONS
  - d. CURING MATERIALS AND METHODS
  - e. PRODUCT DATA FOR NON-SHRINK GROUT
  - f. FORMWORK TYPE, FORMWORK, JOINT LOCATIONS, CHAIRS, FORM TIES, ETC.
  - g. PROPOSED ROUGHENING METHODS AND TECHNIQUES TO PREPARE EXISTING SURFACES TO RECEIVE NEW CONCRETE, IN ACCORDANCE WITH AMPLITUDE NOTED IN THE CONCRETE SECTION OF THESE NOTES.
- 4) MECHANICAL ANCHORS AND EPOXY ANCHORS
- a. PRODUCT DATA FOR EACH TYPE OF SYSTEM INCLUDING ANCHOR TESTING IN ACCORDANCE WITH ACI 355.2 FOR MECHANICAL ANCHORS AND ACI 355.4 FOR EPOXY ANCHORS.
  - b. CERTIFICATION OF ANCHOR INSTALLERS PER ACI/CRSI WHERE ANCHORS ARE INSTALLED IN HORIZONTAL OR VERTICAL CONDITIONS WITH SUSTAINED TENSION.

- D. DEFERRED DESIGN SUBMITTALS SHALL BE SUBMITTED TO THE ENGINEER AND ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO SUBMISSION TO THE AUTHORITY HAVING JURISDICTION FOR PLAN CHECK AND BUILDING PERMIT. THE DESIGN SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND PROJECT-SPECIFIC DESIGN CRITERIA LISTED IN SECTION 5:
- 1. SEISMIC RESISTANCE OF MEP EQUIPMENT, MACHINERY, AND ASSOCIATED PIPING. CONNECTIONS TO STRUCTURE SHALL CONFORM TO ASCE 7-16 CHAPTER 13, SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION.
  - 2. FALL PROTECTION SYSTEMS.
  - 3. METAL LADDERS, SHIP LADDERS, AND SAFETY CAGES
  - 4. SKYLIGHTS (AS APPLICABLE)

3. SPECIAL INSPECTION REQUIREMENTS AND TESTING

- A. PROVIDE SPECIAL INSPECTIONS AND TESTING FOR ALL ITEMS AS REQUIRED BY THE GOVERNING JURISDICTION IN ADDITION TO THE TABLES ON S-010.
- B. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT, QUALIFIED INSPECTOR AND/OR TESTING LAB TO PERFORM ALL REQUIRED TESTING AND SPECIAL INSPECTIONS.
- C. IF INITIAL TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF NON-CONFORMING WORK. THIS NOTIFICATION SHALL SPECIFICALLY ADDRESS THE NON-CONFORMING WORK AND SHALL BE SEPARATE FROM THE SPECIAL INSPECTION REPORTS.
- D. SPECIAL INSPECTION REPORTS SHALL BE SENT TO THE ENGINEER AT THE TIME OF COMPLETION FOR REVIEW OF CONFORMANCE WITH THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS.
- E. THE CONTRACTOR SHALL NOTIFY THE TESTING LAB A MINIMUM OF 48 HOURS PRIOR TO TIME OF INSPECTION.
- F. THE FOLLOWING SPECIFIC ITEMS SHALL BE INSPECTED AND/OR TESTED BY THE TESTING LAB:
- 1) CONCRETE:
    - a. SAMPLE AND TEST CONCRETE AS FOLLOWS:
      - 1. FABRICATE SPECIMENS FOR STRENGTH TESTS PER ACI 318.
      - 2. PERFORM SLUMP AND AIR CONTENT TESTS.
      - 3. DETERMINE TEMPERATURE OF THE CONCRETE.
    - b. REINFORCING STEEL AND WELDED WIRE MESH (INCLUDING PRE STRESSING TENDONS).
      - 1. PLACEMENT (CONTINUOUS INSPECTION FOR SPECIAL MOMENT FRAMES)
      - 2. OBTAIN AND REVIEW MILL TEST REPORTS.
      - 3. WELDING.
    - c. CONCRETE PLACEMENT (CONTINUOUS INSPECTION).
    - d. CAST-IN-PLACE ANCHOR BOLTS.
    - e. CURING TEMPERATURE AND TECHNIQUES AND DURATION.
    - f. REVIEW MIX DESIGN FOR EACH CLASS OF CONCRETE.
    - g. REVIEW THE TICKET OF EACH BATCH OF CONCRETE DELIVERED.
  - 2) ALL STRUCTURAL WELDING INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
    - a. CONTINUOUS INSPECTION FOR ALL BUTT WELDS, COMPLETE AND PARTIAL PENETRATION WELDS, GROOVE WELDS AND PLUG WELDS, INCLUDING WELDING OF REINFORCEMENT.
    - b. CONTINUOUS INSPECTION AND 100% ULTRASONIC TESTING FOR ALL COMPLETE PENETRATION WELDS BETWEEN THE PRIMARY MEMBERS OF MOMENT-RESISTING FRAMES. EXCEPT WHEN THE THICKNESS OF THE MATERIALS TO BE WELDED IS LESS THAN 5/16". IN ADDITION, MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN COMPLETE PENETRATION WELDS.
    - c. CONTINUOUS INSPECTION OF ALL FILLET WELDS EXCEEDING 5/16".
    - d. PERIODIC VISUAL INSPECTION OF THE FOLLOWING ITEMS:
      - 1. SINGLE-PASS FILLET WELDS NOT EXCEEDING 5/16".
      - 2. FLOOR AND ROOF DECK WELDING.
      - 3. WELDED STUDS WHEN USED FOR THE STRUCTURAL DIAPHRAGM OR COMPOSITE CONNECTIONS.
      - 4. WELDED SHEET METAL STEEL FOR COLD-FORMED STUDS AND JOISTS.
      - 5. WELDING OF STAIRS AND RAILING SYSTEMS.
  - 3) POST INSTALLED ANCHORS. WHERE ANCHORS ARE LOADED IN SUSTAINED TENSION, INSPECTION SHALL BE CONTINUOUS. REFER TO THE DRAWINGS FOR DETAILS.
  - a. BRICK MASONRY
    - 1. EPOXY TREADED RODS SHALL BE TESTED PER TESTING SCHEDULE IN TYPICAL DETAILS.
  - b. CONCRETE
    - 1. EPOXY REBAR AND TREADED RODS
    - 2. MECHANICAL ANCHORS
  - 4) STRUCTURAL WOOD
    - a. PERIODIC SPECIAL INSPECTION FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD-DOWNS.
  - 7) ALL EXCAVATIONS AND EARTH FORMS SHALL BE INSPECTED BY THE LOCAL BUILDING INSPECTOR AND INSPECTED BY THE GEOTECHNICAL ENGINEER AND/OR ENGINEER PRIOR TO PLACING CONCRETE.

4. STRUCTURAL OBSERVATIONS

- A. STRUCTURAL OBSERVATIONS WILL BE UNDERTAKEN BY PERSONNEL UNDER THE SUPERVISION OF THE ENGINEER OF RECORD. STRUCTURAL OBSERVATIONS ARE SEPARATE FROM THE SPECIAL INSPECTION REQUIREMENTS OUTLINED ABOVE.
- B. THE PURPOSE OF STRUCTURAL OBSERVATIONS IS TO REVIEW THE OVERALL PROGRESS OF CONSTRUCTION AND ASCERTAIN ITS GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, THESE GENERAL NOTES, AND OTHER SPECIFICATIONS, WHERE APPLICABLE. OBSERVATIONS WILL BE NOTED IN REGULAR SITE REPORTS ISSUED TO THE OWNER'S REPRESENTATIVE.
- C. UNLESS OTHERWISE AGREED UPON, THE ENGINEER OF RECORD SHALL BE ENGAGED TO PROVIDE, AT MINIMUM, A LEVEL OF CONSTRUCTION INVOLVEMENT NEEDED TO OBSERVE THE FOLLOWING AT SIGNIFICANT MILESTONES DURING THE CONSTRUCTION PROCESS:
- 1) FOUNDATION REINFORCEMENT AND CONSTRUCTION
  - 2) STRUCTURAL STEEL FRAMING
  - 3) LATERAL FORCE RESISTING ELEMENTS
  - 4) WOOD FRAMING
- ADDITIONAL ENGINEER INVOLVEMENT MAY BE DESIRED. ANY AGREEMENT TO THAT EFFECT SHALL BE MADE PRIOR TO THE START OF CONSTRUCTION.
- D. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 3 DAYS PRIOR TO TIME OF OBSERVATION AND PROVIDE ACCESS FOR THE OBSERVATIONS.
- E. AN OWNER'S REPRESENTATIVE MAY BE DESIGNATED, BY THE OWNER'S SPECIFIC AUTHORIZATION PRIOR TO THE START OF CONSTRUCTION, WHO WILL HAVE THE AUTHORITY TO REQUEST ADDITIONAL ENGINEER INVOLVEMENT OUTSIDE OF THE NORMAL DUTIES ASSOCIATED WITH STRUCTURAL OBSERVATION.

5. DESIGN BASIS

- A. CONSTRUCT IN CONFORMANCE WITH THE BUILDING CODE NOTED ABOVE.
- B. DESIGN LIVE LOADS (PSF):
- ROOF 20

C. DESIGN DEAD LOADS

- 1) SUPERIMPOSED DEAD LOADS PER STRUCTURAL CALCULATIONS

D. EARTHQUAKE DESIGN DATA

- 1) RISK CATEGORY: BUILDING A: IV  
BUILDINGS B & C: III
1. ASCE 41 PERFORMANCE OBJECTIVE: BPOE
- a. DAMAGE CONTROL (RC III) & IMMEDIATE OCCUPANCY (RC IV) @ BSE-1E  
b. LIMITED SAFETY (RC III) & LIFE SAFETY (RC IV) @ BSE-2E
- 3) SITE CLASS: D (DEFAULT)
- 4) ASCE 41 BSE-2E SPECTRAL RESPONSE ACCELERATIONS:  
a. SXS = 0.820 g  
b. SX1 = 0.587 g
- 5) ASCE 41 BSE-1E SPECTRAL RESPONSE ACCELERATIONS:  
a. SXS = 0.381 g  
b. SX1 = 0.206 g

- 6) BASIC SEISMIC-FORCE RESISTING SYSTEM: WOOD FRAMED SHEAR WALLS
- 7) ANALYSIS PROCEDURE USED: LINEAR STATIC PROCEDURE

E. WIND:

- 1) RISK CATEGORY: IV (BUILDING A)  
2) BASIC WIND SPEED: 107 MPH  
3) WIND DIRECTIONALITY FACTOR, Kd: 0.85  
4) EXPOSURE CATEGORY TYPE: B  
5) TOPOGRAPHIC FACTOR, Kzt: 1.0  
6) ENCLOSURE CLASSIFICATION: ENCLOSED

F. FOUNDATIONS:

- 1) SPREAD AND STRIP FOOTINGS: 1500 PSF (ASSUMED)

G. DESIGN SNOW LOADS

- 1) GROUND SNOW LOAD, Pg: 11 PSF  
2) FLAT-ROOF SNOW LOAD, Pf: 20 PSF MIN.  
3) SNOW EXPOSURE FACTOR, Ce: 1.0  
4) SNOW LOAD IMPORTANCE FACTOR, I: 1.2 (BUILDING A)  
5) THERMAL FACTOR, Ct: 1.0

6. FOUNDATION, FILL, AND SITE WORK

FOUNDATION DESIGN IS BASED ON MINIMUM VALUES PER OSSC TABLE 1806.2

- A. EXCEPT WHERE OTHERWISE SHOWN, EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE LINE REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE. ALL FOUNDATIONS SHALL BE POURED WITHOUT THE USE OF SIDE FORMS WHEREVER POSSIBLE. IF THE TRENCHES CANNOT STAND, FULLY FORM SIDES TO DIMENSIONS SHOWN.
- B. DO NOT ALLOW WATER TO STAND IN TRENCHES. IF BOTTOMS OF TRENCHES BECOME SOFTENED DUE TO RAIN OR SLURRY OR OTHER WATER BEFORE CONCRETE IS CAST, EXCAVATE SOFTENED MATERIAL AND REPLACE WITH PROPERLY COMPACTED BACKFILL OR CONCRETE AT NO COST TO OWNER.
- C. WHERE SITEWORK IS REQUIRED, COMPLY WITH THE FOLLOWING:
- 1) STRIP THE AREA TO BE BUILT OVER OF ALL ORGANIC MATERIAL AND TOP SOIL.
  - 2) SCARIFY THE TOP 6 INCHES OF STRIPPED SURFACE; BRING TO CORRECT MOISTURE CONTENT; THEN RE-COMPACT TO AT LEAST 95% UNDER FOOTINGS AND 90% ELSEWHERE.
  - 3) FILL MATERIAL TO BE PLACED IN 6 INCH LAYERS AND COMPACTED.
  - 4) FILL MATERIAL SHALL BE FREE OF PLASTIC CLAYS, VEGETATION, AND OTHER DELETERIOUS MATERIAL; IT SHALL BE OF SUCH QUALITY THAT IT WILL COMPACT THOROUGHLY WHEN WATERED AND ROLLED. THE FILL SHALL NOT CONTAIN ROCKS OR LUMPS OVER 2 INCHES IN GREATEST DIMENSION.
- D. PLACE BACKFILL BEHIND RETAINING WALLS AFTER CONCRETE HAS ATTAINED FULL DESIGN STRENGTH. BRACE BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHED FLOORS AND SLABS ON GRADE HAVE ATTAINED FULL DESIGN STRENGTH.
- E. FOR SHALLOW FOUNDATIONS, THE TOP SURFACE OF FOOTINGS SHALL BE LEVEL. THE BOTTOM SURFACE OF FOOTINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT EXCEEDING ONE UNIT VERTICAL IN 10 UNITS HORIZONTAL (10-PERCENT SLOPE). FOOTINGS SHALL BE STEPPED WHERE IT IS NECESSARY TO CHANGE THE ELEVATION OF THE TOP SURFACE OF THE FOOTING OR WHERE THE SURFACE OF THE GROUND SLOPES MORE THAN ONE UNIT VERTICAL IN 10 UNITS HORIZONTAL.

7. UNDER-SLAB VAPOR BARRIER

- A. VAPOR BARRIER MUST HAVE THE FOLLOWING MATERIAL QUALITIES:
- 1) WVTR LESS THAN 0.008 AS TESTED BY ASTM E96.
  - 2) ASTM (E) 1745 CLASS A (PLASTICS).
- B. ACCEPTABLE PRODUCTS:
- 1) STEGO WRAP (15 MIL) VAPOR BARRIER BY STEGO INDUSTRIES.
  - 2) W.R. MEADOWS PREMULDED MEMBRANE WITH PLASMATIC CORE.
- C. INSTALLATION & PREPARATION OF SUBSOIL FOR VAPOR BARRIER SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND ASTM E1643-11.

8. CONCRETE

- A. EXCEPT WHERE NOTED OTHERWISE, ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, UNLESS OTHERWISE NOTED, COMPLY WITH CONSTRUCTION TOLERANCES AS SPECIFIED IN ACI 117 "SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS".
- B. REINFORCE ALL CONCRETE. INSTALL ALL INSERTS, BOLTS, ANCHORS, AND REINFORCING AND SECURELY TIE PRIOR TO PLACING CONCRETE.
- C. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE I OR II.
- D. CONCRETE SHALL BE HARDROCK CONCRETE AND CONFORM TO ALL REQUIREMENTS OF ASTM C-33, UNLESS OTHERWISE NOTED. WHERE LIGHTWEIGHT CONCRETE IS SPECIFIED, IT SHALL CONFORM TO ASTM C-330. FLY ASH SHALL COMPLY WITH ASTM C618; SLAG SHALL COMPLY WITH ASTM C989. PROPORTION CONCRETE IN ACCORDANCE WITH ACI 211.1, INCLUDING ANY REQUIRED ADMIXTURES. CONCRETE SHALL SATISFY THE FOLLOWING PROPERTIES:
- ADMIXTURES WITH CHLORIDE IONS: NOT PERMITTED  
MIN. STRENGTH AT 28 DAYS (F<sub>c</sub>): 4000 PSI  
MIN. STRENGTH AT 56 DAYS: 4000 PSI  
MIN. SLUMP: 2 1/2"  
MAX. SLUMP: 7"  
MAX. AGGREGATE SIZE: 1"  
MAX. WATER/CEMENTITIOUS (w/c/m) RATIO: 0.50  
MIN. FLY ASH OR SLAG REPLACEMENT: 20%
- E. THE ACTUAL SLUMP AND TOLERANCE SHALL BE ESTABLISHED BY THE CONTRACTOR AND CONCRETE SUPPLIER, AS REQUIRED TO SATISFY THE CONTRACTOR'S MEANS AND METHODS FOR PLACEMENT, FIELD AND INSTALLATION CONDITIONS (INCLUDING REINFORCING CONGESTION), FINISH REQUIREMENTS, AND AS REQUIRED TO SATISFY THE PERFORMANCE CRITERIA SPECIFIED ABOVE.
- F. IN AREAS OF HEAVY REINFORCING AND CONGESTION, CONTRACTOR SHALL PROVIDE ADEQUATE MEANS AND METHODS TO PROPERLY INSTALL CONCRETE (I.E., HIGH-RANGE WATER-REDUCING ADMIXTURE, FORM VIBRATORS, ETC.) AT SUCH LOCATIONS. THE CONTRACTOR MAY USE 3/8" MINIMUM CRUSHED ROCK OF NOT LESS THAN 1500 POUNDS/CU. YD.
- G. NO WATER SHALL BE ADDED AT THE TIME OF INSTALLATION WITHOUT WRITTEN APPROVAL OF THE ENGINEER OF RECORD AND SHALL BE REVIEWED AND APPROVED BY THE CONCRETE MIX SUPPLIER.

- H. ALL CONCRETE WITH EXPOSED SURFACES SHALL HAVE HIGH-RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER).
- I. HIGH-RANGE WATER-REDUCING ADMIXTURE SHALL COMPLY WITH ASTM C494, TYPE F OR TYPE C. PRODUCTS INCLUDE THE FOLLOWING:  
1) EUCON 37/1037 OR PLASTOLSERIES, EUCLID CHEMICAL COMPANY,  
2) DARACEM, W.R. GRACE COMPANY, OR  
3) SIKAMENT 300, SIKA CORP.
- J. WHEN PLACING NEW CONCRETE OR SHOTCRETE AGAINST EXISTING CONCRETE, AND/OR CONCRETE MASONRY, ROUGHEN EXISTING MATERIAL TO 1/4" AMPLITUDE. REMOVE ALL LOOSE CEMENTITIOUS MATERIALS AND AGGREGATES. PRESSURE WASH SURFACE AND REMOVE STANDING WATER IMMEDIATELY PRIOR TO PLACING NEW CONCRETE. AT EXISTING BRICK, ROUGHENING IS NOT REQUIRED IF EXISTING BRICK HAS A NATURAL ROUGH SURFACE (APPROXIMATELY 1/4" AMPLITUDE). THE ROUGHENED SURFACE IS SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.
- K. CONTRACTOR SHALL CONSTRUCT CONCRETE FLOORS AND SLABS PER RECOMMENDATIONS OF ACI 302.1R. CONTRACTOR SHALL SUBMIT LOCATIONS OF ANY PROPOSED CONSTRUCTION JOINTS FOR ENGINEERS REVIEW AND APPROVAL.
- L. FINISH SCHEDULE: COORDINATE WITH ARCHITECT

9. FORMWORK

- A. DESIGN AND CONSTRUCT FORMWORK IN ACCORDANCE WITH ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE", UNLESS OTHERWISE NOTED.
- B. AS REQUIRED, PROVIDE POUR POCKETS IN FORMS AND UNDER EXISTING MEMBERS TO PREVENT AIR POCKETS OR "HONEYCOMBS". CONCRETE CAST WITH AIR POCKETS OR HONEYCOMBS IS NOT ACCEPTABLE.
- D. REMOVE FORMS AND SHORES IN ACCORDANCE WITH THE FOLLOWING:
- 1) FOOTINGS AND GRADE BEAMS – REMOVE FORMS AND SHORES NO SOONER THAN 48 HOURS.
- E. CONCRETE SHALL BE CONTINUOUSLY CURED FOR 10 DAYS AFTER PLACING IN ANY APPROVED MANNER IN ACCORDANCE WITH ACI 301, INCLUDING CURING COMPOUND, CURING PAPER, WATER SPRAY, FLOODING WITH WATER (FOR SLABS), ETC. PROVIDE CURING WHERE FORMS ARE REMOVED IN LESS THAN 7 DAYS.  
NOTE: FOOTINGS ARE EXEMPTED FROM THIS REQUIREMENT.

10. REINFORCING STEEL

- A. ALL REINFORCING STEEL BARS, UNLESS OTHERWISE NOTED, SHALL CONFORM WITH THE LATEST STANDARD SPECIFICATIONS FOR DEFORMED BILLET STEEL FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A615 OR A706 AND SHALL BE MINIMUM GRADE 60. HEADED SHEAR STUD REINFORCING SHALL COMPLY WITH ASTM A1044
- B. ALL REINFORCING STEEL THAT IS TO BE WELDED, OR USED IN SEISMIC FRAME MEMBERS AND SHEARWALL BOUNDARY ELEMENTS, SHALL CONFORM TO THE LATEST STANDARD FOR LOW-ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT ASTM A706 (GRADE 60 ONLY). BILLET STEEL ASTM A615 REINFORCEMENT MAY BE SUBSTITUTED FOR LOW ALLOY ASTM A706 IF (1) THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI, (2) THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25, AND (3) MINIMUM ELONGATION IN 8 INCHES SHALL BE AT LEAST 14 PERCENT FOR BAR SIZES #3 THROUGH #6, AT LEAST 12 PERCENT FOR BAR SIZES #7 THROUGH #11, AND AT LEAST 10 PERCENT FOR BAR SIZES #14 AND #18.
- C. WELDED WIRE MESH SHALL CONFORM TO LATEST EDITION OF ASTM A1064.
- D. SUITABLE DEVICES (DOBIES, CHAIRS, ETC.) OF SOME STANDARD MANUFACTURE SHALL BE USED TO HOLD REINFORCEMENTS IN ITS TRUE HORIZONTAL AND VERTICAL POSITIONS. THESE DEVICES SHALL BE SUFFICIENTLY RIGID AND NUMEROUS TO PREVENT DISPLACEMENT OF THE REINFORCING DURING PLACING OF CONCRETE. ALL SUCH DEVICES HAVE PRIOR APPROVAL FROM THE ARCHITECT AND ENGINEER.
- E. LAP SPLICE ALL BARS IN CONCRETE PER STANDARD DETAILS SCHEDULE, USING LAP TYPE "TOP" UNLESS OTHERWISE NOTED. WHEN LAPPING BARS OF DIFFERENT SIZES, USE THE LAP LENGTH OF THE LARGER BAR.
- F. UNLESS OTHERWISE DEMONSTRATED BY SUCCESSFUL PLACEMENT OF A REPRESENTATIVE TEST PANEL, LAP SPLICES FOR SHOTCRETE WALLS SHALL BE PER NON-CONTACT SPlice METHOD. THE LAPRED SHALL BE SPACED MINIMUM OF 2 INCHES BETWEEN THEM AND THE LAP LENGTH SHALL BE PER THE SCHEDULE USING LAP CLASS B, "TOP".
- G. IN LIEU OF LAP SPLICES, REBAR COUPLERS MAY BE USED. ERICO'S AND/ OR ERICO'S CADWELD LENTON, DAYTON BAR-LOCKS AND SIMILAR DEVICES MAY BE USED ONLY IF REINFORCING DETAILER ACCOUNTS FOR COUPLER SIZE, 24 INCH STAGGERING OF COUPLERS AND REINFORCING BAR SPACING. ALTERNATES WILL BE CONSIDERED UPON SUBMITTAL OF MANUFACTURER'S TESTING REPORT. FOR APPLICATIONS IN SEISMIC FRAME MEMBERS AND BOUNDARY ELEMENTS OF SHEAR WALLS, THE COUPLERS SHALL DEVELOP THE LARGER OF 100% OF THE ULTIMATE TENSILE STRENGTH OR 125% OF THE SPECIFIED YIELD STRENGTH OF THE REBAR. FOR ALL OTHER APPLICATIONS, THE COUPLERS SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE REBAR.
- H. IN LIEU OF COUPLERS, MAIN LONGITUDINAL REINFORCING BARS OF ASTM A706 STEEL MAY BE WELDED PER AWS D1.4. WELDED SPLICES SHALL NOT BE USED WITHIN A JOINT OF THE SEISMIC FRAME, OR WITHIN A DISTANCE OF ONE BEAM/COLUMN DEPTH FROM A JOINT.
- I. HOOK DISCONTINUOUS ENDS OF REINFORCING STEEL PER TYPICAL DETAIL, UNLESS OTHERWISE NOTED, WHERE SPECIFIED OR WHERE REINFORCING IS IN A CONGESTED ZONE SO AS NOT TO PERMIT HOOK BARS, PROVIDED A "T-HEAD" TERMINATOR, LENTON "D8" OR "D16" TERMINATOR OR APPROVED EQUAL.
- J. DETAIL ACCORDING TO THE LATEST ACI STANDARD 315, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. PLACE REINFORCEMENT PER ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE", UNLESS OTHERWISE NOTED.
- K. REBAR PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.
- L. REBAR SHALL ONLY BE BENT ONCE. REBAR SHALL NOT BE BENT AND STRAIGHTENED FOR CONSTRUCTION UNLESS EXPLICITLY NOTED ON THE CONSTRUCTION DOCUMENTS.
- M. MAINTAIN COVERAGE TO FACE OF BARS, INCLUDING SLEEVES AND PENETRATIONS, AS FOLLOWS, UNLESS OTHERWISE NOTED:
- 1) CAST-IN-PLACE CONCRETE
    - a. 3 INCHES WHERE CONCRETE IS DEPOSITED AGAINST EARTH EXCEPT SLAB-ON-GRADE
    - b. 2-1/2 INCHES FOR CAST-IN-PLACE DEEP FOUNDATION ELEMENTS NOT ENCLOSED BY A STEEL PIPE, TUBE OR PERMANENT CASING.
    - c. 2 INCHES FOR FORMED CONCRETE WHICH IS EXPOSED TO EARTH OR WEATHER FOR #6 BAR THROUGH #18 BAR, REDUCED TO 1-1/2 FOR #5 BAR, W31 OR D31 WIRE AND SMALLER.
    - d. 1-1/2 INCHES FOR INTERIOR BEAMS AND COLUMNS.
    - e. 1-1/2 INCHES FOR INTERIOR SLABS AND WALLS FOR #14 AND #18 BAR, REDUCED TO 3/4 INCH FOR #11 BAR AND SMALLER.
    - f. 1-1/2 INCHES FOR SLAB-ON-GRADE.
  - N. PROVIDE FIBER-REINFORCING WHERE INDICATED ON THE DRAWINGS. COMPLY WITH ASTM C1116. FIBER-REINFORCING SHALL BE FIBERMESH 300 BY PROPEX (MINIMUM DOSAGE OF 1.5 LBS/YD<sup>3</sup> U.O.N.) OR APPROVED EQUIVALENT.

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11. NON-SHRINK GROUT

- A. NON-SHRINK GROUT SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (F<sub>c</sub>) OF 7,000 PSI.
- B. NON-SHRINK GROUT SHALL COMPLY WITH ONE OF THE FOLLOWING.
- 1) DRY PACK NON-SHRINK GROUT SHALL BE EUCLID CHEMICAL COMPANY'S "EUCO-NS", L&M CRYSTEX, MASTER BUILDERS' "MASTERFLOW 713", SIMPSON'S "FX-228", FIVE STAR GROUT, OR SIKAGROUT-212.
- 2) WHERE HIGH FLUIDITY OR INCREASED PLACING TIME IS REQUIRED, USE EUCLID CHEMICAL COMPANY'S "EUCO HI-FLOW GROUT", MASTER BUILDERS' "MASTERFLOW 928", OR SIKAGROUT-212.
- C. COMPLY WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND REQUIREMENTS.

12. PATCHING OF CONCRETE

- A. ALL INSERT HOLES, SHE-BOLTS, ETC., AND OTHER IMPERFECTIONS ON THE SURFACES OF THE CONCRETE SHALL BE FILLED WITH GROUT, BRUSHED AND SACKED TO A UNIFORM FINISH. ALL HOLES THROUGH TO THE OUTSIDE OF THE BUILDING MUST BE MADE WATERTIGHT.
- B. MATERIALS AND METHODS USED FOR PATCHING OF CONCRETE IN THE EVENT OF SPALLING, HONEYCOMBING, LARGE CRACKS, ETC., SHALL BE BY MASTER BUILDERS, SIKAGROUT OR EQUIVALENT. FINAL FINISHED APPEARANCE SUBJECT TO APPROVAL. SUBSTITUTES WILL BE CONSIDERED UPON SUBMITTAL OF MANUFACTURER'S TESTING REPORT.

13. FRAMING LUMBER

- A. ALL FRAMING LUMBER SHALL BE GRADED PER WCLIB GRADING RULES NO. 17.
- B. ALL FRAMING LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF INSTALLATION.
- C. ALL POSTS AND BEAMS SHALL BE DOUGLAS FIR, #1.
- D. ALL FLOOR AND ROOF JOISTS SHALL BE DOUGLAS FIR, #1.
- E. ALL STUDS, PLATES, ETC., SHALL BE DOUGLAS FIR, CONSTRUCTION GRADE.
- F. ENGINEERED WOOD PRODUCTS MAY BE USED AS SUBSTITUTES FOR SAWN LUMBER UPON REQUEST BY THE CONTRACTOR AND APPROVAL FROM THE ARCHITECT AND ENGINEER OF RECORD. CONTRACTOR SHALL SUBMIT MANUFACTURER'S TESTING REPORTS FOR APPROVAL.
14. PLYWOOD (PW) OR ORIENTED STRAND BOARD (OSB)
- A. EACH PANEL SHALL BE IDENTIFIED WITH THE APPROPRIATE GRADE, TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE U.S. PRODUCT STANDARD PS-1. PLYWOOD GRADE SHALL CONFORM TO CD-X FOR PLYWOOD OR TYPE 2-M-W FOR ORIENTED STRAND BOARD, UNLESS OTHERWISE NOTED.
- B. WHERE PLYWOOD IS PERMANENTLY EXPOSED TO WEATHER, IT SHALL BE EXTERIOR TYPE. OTHERWISE, PANEL SHEATHING SHALL BE EXPOSURE 1. PLYWOOD TO BE CC GRADE AT LOCATIONS EXPOSED TO WEATHER; CC OR CD GRADE ELSEWHERE.
- C. PANELS TO BE 5-PLY MINIMUM, EXCEPT 3/8" PANELS TO BE 3-PLY MINIMUM.
- D. PLYWOOD SHEETS AT FLOORS AND ROOFS SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO JOISTS AND RAFTERS. PLYWOOD AT FLOORS SHALL BE GLUED TO FRAMING BELOW (USE SOLVENT BASED GLUE COMPLYING WITH ASTM D3498 AND VOLATILE ORGANIC COMPOUND (VOC) LIMITS PER CALGREEN). LN-950 BY LIQUID NAILS OR APPROVED EQUIVALENT, UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT. PROVIDE RING-SHANK NAILS AT FLOOR AND ROOF SHEATHING.
- E. PLYWOOD SHEETS ON WALLS SHALL BE LAID WITH LONG DIMENSION VERTICAL. BLOCK ALL EDGES WITH A MINIMUM OF 3X BLOCK AND MEMBERS. ALL NAILING SHALL HAVE 3/8 INCH EDGE DISTANCE FOR FRAMING, BLOCKING AND PLYWOOD EDGES. USE SMOOTH-SHANK NAILS FOR PLYWOOD WALL SHEATHING.
- F. STAPLES FOR PLYWOOD DIAPHRAGMS SHALL BE 14 GAGE ROUND SEMI-FLATTENED, PLAIN OR ZINC-COATED STEEL WIRE, WITH A NOMINAL CROWN WIDTH OF 7/16", DRIVEN BY PNEUMATIC OR MECHANICAL DEVICE.
- G. PROVIDE 1/8" GAP BETWEEN PANELS UNLESS OTHERWISE NOTED.
- H. PANELS SHALL HAVE THE FOLLOWING PROPERTIES UNLESS OTHERWISE NOTED.
- 1) 3/8 INCH NOMINAL SHALL BE 3/8 INCH ACTUAL THICKNESS WITH 24/0 SPAN RATING.
- 2) 1/2 INCH NOMINAL SHALL BE 15/32 INCH ACTUAL THICKNESS WITH 32/16 SPAN RATING.
- 3) 5/8 INCH NOMINAL SHALL BE 19/32 INCH ACTUAL THICKNESS WITH 40/20 SPAN RATING.
- 4) 3/4 INCH NOMINAL SHALL BE 23/32 INCH ACTUAL THICKNESS WITH 48/24 SPAN RATING.
- 5) 1-1/8 INCH NOMINAL SHALL BE 1-1/8 INCH ACTUAL THICKNESS WITH 48 O.C. FLOOR SPAN RATING.

15. ROUGH CARPENTRY

- A. FOR SCHEDULE OF MINIMUM NAILING TABLE 2304.10.1 OF THE 2019 OREGON STRUCTURAL SPECIFICATION, 16d GALV. COATED SINKERS MAY BE SUBSTITUTED FOR 16d BOX OR COMMON NAILS FOR ROUGH FRAMING. SINKERS SHALL NOT BE USED WITH METAL CONNECTORS.
- B. SILLS AND LEDGERS ON CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED DOUGLAS FIR. SILLS AND LEDGERS SHALL BE FASTENED TO THE CONCRETE WITH A MINIMUM OF TWO FASTENERS PER PIECE AND A FASTENER NO FURTHER THAN 9 INCHES FROM END OF EACH PIECE, UNLESS OTHERWISE NOTED.
- C. PLACE JOISTS WITH CROWN UP.
- D. RE-TIGHTEN ALL BOLTS PRIOR TO CLOSING IN WALLS.
- E. WHEN METAL CONNECTORS, ANCHORS OR FASTENERS ITEMS ARE EXPOSED TO WEATHER AND/OR PRESSURE TREATED LUMBER THE METAL ITEMS ARE TO BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A153. SEE ADDITIONAL COATING REQUIREMENTS AS NOTED IN THE PRESSURE TREATMENT SECTION.
- F. DOUBLE ALL JOISTS UNDER ALL PARALLEL PARTITIONS UNLESS NOTED OTHERWISE.
- G. BLOCK ALL JOISTS AT SUPPORTS AND UNDER ALL PARTITIONS WITH MINIMUM 2x SOLID BLOCKING. BLOCK AND BRIDGE ROOF JOISTS AT 10 FEET AND FLOOR JOISTS AT 8 FEET UNLESS OTHERWISE NOTED.
- H. 2x JOISTS SHALL BE SISTERED (VERTICAL NAIL LAMINATED) WITH SDWS 0.220x3 MIN. LENGTH AT 6" O.C. IN (2) ROWS STAGGERED UNLESS OTHERWISE NOTED.
- I. ALL POSTS LOCATED OVER WOOD WALLS SHALL HAVE A POST OF EQUAL OR GREATER SIZE LOCATED IN THE WALL DIRECTLY BELOW UNLESS OTHERWISE NOTED.
- J. THE STRUCTURAL DESIGN ASSUMES THAT ALL FLOORS AND ROOFS ARE CONSTRUCTED AND LOADED WITH FINISHES (OR EQUIVALENT WEIGHT) FOR A MINIMUM OF SEVEN (7) DAY PRIOR TO THE TIME OF DOOR AND WINDOW INSTALLATION.
- K. ALL TIMBER FASTENERS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE SIMPSON STRONG-TIE'S STANDARD FASTENERS OR APPROVED EQUIVALENT INSTALLER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. USP LUMBER CONNECTORS WITH REFERENCE NUMBERS FOR SUBSTITUTION MAY BE USED IN LIEU OF SIMPSON HARDWARE. ENGINEER MAY APPROVE OF OTHER SUBSTITUTIONS UPON THE FOLLOWING:

- 1) WRITTEN REQUEST FOR OTHER BRANDS
- 2) SUBMISSION OF MANUFACTURER'S TESTING REPORTS
- 3) REFERENCES TO PERTINENT DETAILS WHERE SUBSTITUTIONS ARE TO BE APPLIED.

- L. ALL STRUCTURAL WOOD WALLS SHALL BE FRAMED WITH 2x4 MINIMUM STUDS AT 16" ON CENTER UNLESS OTHERWISE NOTED.

- M. PRE-DRILL HOLES AS REQUIRED TO PREVENT SPLITTING OF WOOD.

16. PRESSURE TREATMENT

- A. ALL LUMBER EXPOSED TO WEATHER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH A.W.P.A. STANDARD U1, WITH A PRESERVATIVE AND RETENTION SUITABLE FOR THE APPLICATION (SEE BELOW). ALL CUT ENDS SHALL ALSO BE FIELD TREATED WITH A PRESERVATIVE. AS AN ALTERNATE, CONTRACTOR MAY USE REDWOOD OF EQUIVALENT STRENGTH PROPERTIES AS THOSE SHOWN ABOVE, AND AN APPROVED PRIMER. THE FOLLOWING USE CATEGORIES SHALL BE REQUIRED BASED ON THE APPLICATION:
- 1) UC1 – INTERIOR DRY
- 2) UC2 – INTERIOR DAMP
- 3) UC3A – EXTERIOR ABOVE GROUND – PROTECTED
- 4) UC3B – EXTERIOR ABOVE GROUND – UNPROTECTED
- 5) UC4A – GROUND CONTACT, GENERAL USE
- 6) UC4B – GROUND CONTACT, HEAVY DUTY USE
- 7) UC4C – GROUND CONTACT, EXTREME DUTY
- 8) UC5A – MARINE USE, NORTHERN WATERS
- B. ALL EXTERIOR GLUED LAMINATED BEAMS EXPOSED TO WEATHER SHALL BE PRESSURE TREATED WITH A PRESERVATIVE, PENTACHLOROPHENOL WITH A MINIMUM NET RETENTION OF 0.40#/CU. FT. FOR BOTH GROUND USE. ALL CUT ENDS SHALL ALSO BE TREATED WITH A PRESERVATIVE. AS AN ALTERNATE, GLU-LAM BEAMS MAY BE FABRICATED OF ALASKAN, OR PORT ORFORD CEDAR, AND FIELD PAINTED WITH AN APPROVED PRIMER.
- C. ALL PLYWOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.
- D. WHEN METAL CONNECTOR, ANCHOR OR FASTENER ITEMS ARE IN CONTACT WITH PRESSURE TREATED LUMBER AND/OR CORROSIVE ENVIRONMENTS THE CONTRACTOR SHALL USE CORROSION RESISTANT METAL ITEMS AS NOTED:

- 1) WHEN LUMBER IS TREATED WITH CHROMATED COPPER ARSENATE (CCA-C) OR DOT SODIUM ARSENATE (SBX) THE METAL ITEMS SHALL HAVE A MINIMUM G90 (0.90 OZ/SQFT) ZINC COATING OR ENGINEER APPROVED EQUIVALENT.
- 2) WHEN LUMBER IS TREATED WITH ALKALINE COPPER QUAT (ACQ-C OR ACQ-D), COPPER AZOLIS (CBA-A OR CBA-S) OR OTHER BORATE (NON-DOT) TREATMENT THE METAL ITEMS SHALL HAVE A MINIMUM G185 (1.85 OZ/SQFT) ZINC COATING OR ENGINEER APPROVED EQUIVALENT.
- 3) WHEN LUMBER IS TREATED WITH OTHER TREATMENTS (NOT AMMONIACAL COPPER ZINC ARSENATE (ACZA) SEE 4 BELOW) OR IS EXPOSED TO CORROSIVE ENVIRONMENTS NOT LIST ABOVE THE METAL ITEMS SHALL BE TYPE 316L STAINLESS STEEL OR ENGINEER APPROVED EQUIVALENT.
- 4) AMMONIACAL COPPER ZINC ARSENATE (ACZA) IS NOT PERMITTED UNLESS APPROVED BY THE ENGINEER.
- 5) CONTRACTOR IS TO CONFIRM LUMBER PRESSURE TREATMENT TYPE PRIOR TO PURCHASE OF METAL ITEMS.
- 6) AS AN ALTERNATIVE, FOR THE SITUATION WHEN THE BASE OF A HOLDOWN IS IN CONTACT WITH A PRESSURE TREATED SILL PLATE THE CONTRACTOR CAN PROVIDE A PRESSURE TREATMENT BARRIER BETWEEN THE BASE OF THE HOLDOWN AND THE SILL PLATE.

17. STRUCTURAL STEEL

- A. STRUCTURAL STEEL SHALL CONFORM TO FOLLOWING ASTM DESIGNATIONS, UNLESS OTHERWISE NOTED:
- 1) PLATES AND BARS, INCLUDING DOUBLER PLATES, CONTINUITY PLATES, BASE PLATES, GUSSET PLATES, AND SHEAR TABS: ASTM A572 GRADE 50.
- 2) WIDE FLANGES (W): ASTM A992 (F<sub>y</sub> = 50 KSI)
- 3) MISCELLANEOUS (M), AMERICAN STANDARD (S), CHANNEL (C), MISCELLANEOUS CHANNEL (MC), AND ANGLES (L): ASTM A36 (F<sub>y</sub> = 36 KSI).
- 4) BEARING PILES (HP): ASTM A572 GRADE 50 (F<sub>y</sub> = 50 KSI).
- 5) RECTANGULAR AND ROUND HSS (HSS): A1085 GR. 50 (F<sub>y</sub> = 50 KSI).
- 6) RECTANGULAR AND ROUND HSS (HSS): ASTM A500 Gr. C (F<sub>y</sub> = 46 KSI).
- 7) PIPE (P): ASTM A53 GRADE B (F<sub>y</sub> = 35 KSI)
- 8) STRUCTURAL TEES (WT, MT, AND ST) SHALL CONFORM TO THE ASTM SPECIFICATION OF THE CORRESPONDING FULL DEPTH SHAPE (WT SHALL CONFORM TO ASTM SPECIFICATION FOR W, ETC.)
- B. STRUCTURAL FASTENERS INCLUDING BOLTS, THREADED RODS, AND ANCHOR RODS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS, UNLESS OTHERWISE NOTED.
- 1) ERECTION, GROUTED, AND TIMBER CONNECTION BOLTS: ASTM A307 WITH WELDABILITY SUPPLEMENT S1 GRADE A.
- 2) HIGH STRENGTH BOLTS: ASTM F3125 A325; WHERE TWIST-OFF TYPE BOLTS ARE SPECIFIED, PROVIDE ASTM F3125 F1852.
- 3) THREADED RODS: ASTM A36
- 4) HIGH STRENGTH THREADED RODS: ASTM A193 GRADE B7.
- 5) STEEL HEADED STUD ANCHORS: ASTM A108.
- 6) ANCHOR RODS AND ANCHOR BOLTS: ASTM F1554 WITH WELDABILITY SUPPLEMENT S1 GRADE 55.
- C. WHEN PRETENSIONED ASTM F3125 A490 BOLTS ARE SPECIFIED F436 WASHERS SHALL BE USED UNDER BOTH THE BOLT HEAD AND NUT.
- D. ALL BOLTS FOR EXTERIOR USE SHALL BE ZINC-COATED BY THE BOLT MANUFACTURER BY EITHER THE HOT-DIP PROCESS IN ACCORDANCE WITH ASTM A153, CLASS C OR THE MECHANICAL DEPOSIT PROCESS IN ACCORDANCE WITH ASTM B695, CLASS 50.
- E. ALL STRUCTURAL STEEL MEMBERS EXPOSED TO WEATHER OR CALLED OUT AS HOT DIP GALVANIZED (HDG) ON PLAN OR STRUCTURAL STEEL MEMBERS LOCATED IN EXTERIOR ENVIRONMENTS SHALL BE HDG IN ACCORDANCE WITH ASTM A 123. ANY MEMBER THAT HAS HAD ITS HDG COATING DAMAGED OR REMOVED DURING TRANSPORT OR ERECTION SHALL HAVE ITS COATING REPAIRED USING ZRC GALVILITE REPAIR COMPOUND OR EQUAL. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.
- F. PAINT STEEL (EXCEPT GALVANIZED STEEL AND PORTIONS TO BE ENCASED IN CONCRETE) WITH ONE COAT OF PRIMER STANDARD TNE MEC V10 OR EQUIVALENT SUBJECT TO ENGINEER'S APPROVAL. ALTERNATES WILL BE CONSIDERED UPON REQUEST AND SUBMISSION OF THE MANUFACTURER'S SPECIFICATIONS.
- G. ALL CONCRETE ENCASED STEEL SHALL BE CLEAN OF GREASE, PAINT AND OTHER CONTAMINANTS.
- H. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST AISC 'SPECIFICATIONS' FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- I. WELDING SHALL CONFORM TO THE LATEST EDITION OF THE ANSII/AWS D1.1 STRUCTURAL WELDING CODE. USE E70XX ELECTRODES. WELDING OF METAL DECK AND OTHER SHEET METAL SHALL CONFORM TO THE LATEST EDITION OF AWS D1.3. USE E70XX ELECTRODES. ALL WELD SIZES SPECIFIED ON THE DRAWINGS ARE EFFECTIVE WELD SIZES (E), WELDS SHOWN ON SHOP DRAWINGS (S) SHALL BE INCREASED AS REQUIRED TO ACHIEVE WHAT IS SPECIFIED.
- J. LOCATE AND INSTALL ALL ANCHOR BOLTS, EPOXY ANCHORS, AND MECHANICAL ANCHORS BEFORE FABRICATING STEEL CONNECTION ELEMENTS.
- K. STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO VIEW IN THE COMPLETED BUILDING ARE DESIGNATED ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AND ARE SUBJECT TO THE AISC AESS REQUIREMENTS. REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

18. SEISMIC MOMENT FRAME CONNECTIONS

- A. WELDING SHALL CONFORM TO THE LATEST EDITION OF THE ANSII/AWS D1.8 STRUCTURAL WELDING CODE SEISMIC SUPPLEMENT. USE E70XX ELECTRODES.

19. MECHANICAL ANCHORS

- A. EXPANSION ANCHORS INTO CONCRETE SHALL BE
1. HILTI KB-TZ  
INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. SCREW ANCHORS INTO CONCRETE SHALL BE:
1. HILTI KH-EZ  
INSTALL SCREWS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- C. PROVIDE STAINLESS (AISI 316) STEEL FASTENERS FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER OR IN CHEMICALLY CORROSIVE ENVIRONMENTS. PROVIDE ZINC COATED OR GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED. WHERE STAINLESS STEEL FASTENERS ARE USED IN CONJUNCTION WITH GALVANIZED OR OTHER DISSIMILAR BASE METALS, PROVIDE ELECTRICAL ISOLATION AS NOTED ON THE DRAWINGS. NOTIFY THE ENGINEER FOR CLARIFICATION IF NO ELECTRICAL ISOLATION IS SPECIFIED.
- D. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. DO NOT CUT EXISTING REINFORCEMENT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
- E. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

20. EPOXY GROUTING OF DOWELS, REBAR AND ANCHOR BOLTS

- A. INSTALLATION OF POST-INSTALLED DOWELS, REBAR AND ANCHOR BOLTS (EPOXY ANCHORS) SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), WHERE THERE IS A CONFLICT BETWEEN THESE NOTES AND THE MPII, SEE MPII FOR CLARIFICATION. EPOXY ANCHORS EXPOSED TO WEATHER TO BE GALVANIZED. EPOXY ANCHORS IN BRICK (URM) REQUIRE SCREEN TUBES PER MANUFACTURER.
- B. EPOXY ANCHORS SHALL MEET THE REQUIREMENTS OF ACI 355.4 AND THE FOLLOWING INSTALLATION REQUIREMENTS, UNLESS OTHERWISE NOTED.
- 1) MINIMUM AGE OF CONCRETE: 21 DAYS
- 2) CONCRETE TEMPERATURE RANGE: 50-80 DEGREES FAHRENHEIT
- 3) MOISTURE CONDITION OF CONCRETE: DRY
- C. EPOXY GROUTING WILL BE USED IN ALL LOCATIONS WHERE EITHER ALL-THREAD ROD OR REBAR ARE BEING EMBEDDED INTO EXISTING CONCRETE, CMU, OR BRICK.
- D. IN CONCRETE, HOLES SHALL BE DRILLED WITH ROTARY HAMMER UNLESS NOTED OTHERWISE.
- E. IN BRICK, HOLES SHALL BE DRILLED WITH NON-IMPACT TOOLS, NO ROTARY HAMMERS.
- F. EPOXY GROUT FOR DOWNWARD HOLES SHALL BE EITHER NON-SAG OR LIQUID TYPE, NORMAL SET. HORIZONTAL OR OVERHEAD HOLES SHALL BE NON-SAG TYPE. FOR OVERHEAD APPLICATIONS A PISTON PLUG SHALL BE USED.
- G. UNLESS OTHERWISE NOTED, EPOXY TYPES SHALL BE AS FOLLOWS: FOR DOWELS AND REBAR IN CONCRETE, EPOXY SHALL BE:
- a. HILTI HIT-RE 500 V3
- FOR ANCHOR BOLTS IN CONCRETE, EPOXY SHALL BE
- a. HILTI HIT-HY 200
- FOR UNREINFORCED MASONRY (URM), EPOXY SHALL BE:
- a. HILTI HIT-HY 270
- FOR CONCRETE MASONRY UNITS(CMU), EPOXY SHALL BE:
- a. HILTI HIT-HY 270
- ALTERNATES WILL BE CONSIDERED UPON REQUEST AND SUBMISSION OF PRODUCT EVALUATION REPORT IN ACCORDANCE WITH ACI 355.4.
- H. WHEN INSTALLING ANCHORS, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS.
- I. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED, THE ENGINEER WILL DETERMINE A NEW LOCATION.
- J. LOCATE EXISTING REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH ANCHORS.

21. FINISHES - FOR WORK ON EXISTING BUILDINGS

- A. REPLACE ALL DAMAGED FINISH MATERIALS WITH NEW MATERIALS OF EQUIVALENT QUALITY AND KIND. SUBMIT SAMPLES AND/OR PRESENT SAMPLE INSTALLATION TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.

PRELIMINARY -  
NOT FOR CONSTRUCTION

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SEISMIC IMPROVEMENTS AND ROOFING REPLACEMENT  
BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL  
1500 NW 185TH AVE  
BEAVERTON, OR 97006



REVISIONS		
No.	Description	Date

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S-002

## STATEMENT OF SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS AND TESTS SHALL BE PERFORMED BY AN INDEPENDENT QUALIFIED INSPECTION AND/OR TESTING AGENCY APPROVED BY THE JURISDICTION FOR SUCH WORK AND IN ACCORDANCE WITH CHAPTER 17 OF THE CODE. THESE SPECIAL INSPECTIONS AND TESTS ARE IN ADDITION TO THE INSPECTIONS PERFORMED BY THE BUILDING OFFICIAL.
2. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING THE SPECIAL INSPECTION AND/OR TESTING AGENCY.
3. THE SPECIAL INSPECTION AND/OR TESTING AGENCY SHALL KEEP RECORDS AND SUBMIT SPECIAL INSPECTION AND TEST REPORTS TO THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER OF RECORD IN ACCORDANCE WITH SECTIONS 1704.2.4 AND 1704.5 OF THE CODE AND JURISDICTION-SPECIFIC REQUIREMENTS.
4. THE CONTRACTOR SHALL NOTIFY THE TESTING LAB A MINIMUM OF 48 HOURS PRIOR TO TIME OF INSPECTION.
5. THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTION OR TESTING IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION OR TESTING PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTIONS OR TESTS.
6. IF INITIAL TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING OR INSPECTION AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IMMEDIATELY OF NON-COMFORMING WORK. THIS NOTIFICATION SHALL SPECIFICALLY ADDRESS THE NON-COMFORMING WORK AND SHALL BE SEPARATE FROM THE SPECIAL INSPECTION REPORTS.
7. SPECIAL INSPECTION REPORTS SHALL BE SENT TO THE ENGINEER AT THE TIME OF COMPLETION FOR REVIEW OF CONFORMANCE WITH THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS.
8. SPECIAL INSPECTIONS AND TESTS FOR SEISMIC RESISTANCE SHALL BE PERFORMED FOR THE DESIGNATED SEISMIC SYSTEM/SEISMIC FORCE RESISTING COMPONENT WHEN APPLICABLE AND AS PER SECTIONS 1705.12 & 1705.13 OF THE CODE.
- a. DESIGNATED SEISMIC SYSTEM/SEISMIC FORCE RESISTING SYSTEM: "NA".
- SEE THE ABOVE-REFERENCED CODE SECTIONS FOR ADDITIONAL SPECIAL INSPECTION AND TEST REQUIREMENTS FOR STRUCTURAL STEEL, STRUCTURAL WOOD, COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION, DESIGNATED SEISMIC SYSTEMS, ARCHITECTURAL COMPONENTS, MEP COMPONENTS, STORAGE RACKS, SEISMIC ISOLATIONS SYSTEMS, AND COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES.
9. SPECIAL INSPECTIONS FOR WIND RESISTANCE SHALL BE PERFORMED FOR THE MAIN WIND FORCE RESISTING SYSTEM AND WIND RESISTING COMPONENTS WHEN APPLICABLE AND AS PER SECTION 1705.11 OF THE CODE.
- a. MAIN WIND FORCE RESISTING SYSTEM/WIND RESISTING COMPONENT: "NA".
- SEE THE ABOVE-REFERENCED CODE SECTIONS FOR ADDITIONAL SPECIAL INSPECTION REQUIREMENTS FOR STRUCTURAL WOOD, COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION, AND WIND-RESISTING COMPONENTS.
10. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR A WIND OR SEISMIC RESISTING COMPONENT LISTED ABOVE SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THIS STATEMENT OF SPECIAL INSPECTIONS.
11. STEEL CONSTRUCTION: SPECIAL INSPECTIONS FOR STEEL ELEMENTS OF BUILDINGS AND STRUCTURES SHALL BE AS REQUIRED BY SECTION 1705.2 OF THE CODE AND IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360-10, INCLUDING THE SPECIAL INSPECTION TABLE SHOWN HEREIN. SEE ALSO REQUIREMENTS NOTED FOR SEISMIC AND WIND RESISTANCE OF INSPECTION NOTES #8 AND #9.
12. CONCRETE CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED BY SECTION 1705.3 OF THE CODE, INCLUDING THE SPECIAL INSPECTION TABLE SHOWN HEREIN.
- CONCRETE SPECIAL INSPECTIONS AND TESTS ARE NOT REQUIRED FOR:
- a. ISOLATED SPREAD FOOTINGS OF BUILDINGS 3 STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK.
- b. NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI.
13. WOOD CONSTRUCTION: SPECIAL INSPECTIONS FOR WOOD CONSTRUCTION SHALL BE AS REQUIRED BY SECTION 1705.5 OF THE CODE. SEE ALSO REQUIREMENTS NOTED FOR SEISMIC AND WIND RESISTANCE OF INSPECTION NOTES #8 AND #9.
14. SOILS: SPECIAL INSPECTIONS FOR EXISTING SOIL CONDITIONS, FILL PLACEMENT, AND LOAD BEARING REQUIREMENTS SHALL BE AS REQUIRED BY SECTIONS 1705.6 THROUGH 1705.9 OF THE CODE, INCLUDING THE SPECIAL INSPECTION TABLES SHOWN HEREIN.

## 1 STATEMENT OF SPECIAL INSPECTIONS

N.T.S.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (2019 OSSC TABLE 1705.3) <sup>a</sup>				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	-	X	AWS D1.4 ACI 318: 26.6.4	-
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	-	X		
c. INSPECT ALL OTHER WELDS.	X	-		
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. <sup>b</sup>				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	ACI 318: 17.8.2.4	-
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	-	X	ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED MIX DESIGN.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5	1908.9

- a. WHERE APPLICABLE, SEE ALSO SECTION 1705.12 (SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE).
- b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 318-19 SECTION 17.8.2, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK. SPECIAL INSPECTIONS FOR EPOXY ADHESIVE ANCHORS SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE.

## 2 MINIMUM TEST AND SPECIAL INSPECTIONS OF CONCRETE CONSTRUCTION

N.T.S.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS (2019 OSSC TABLE 1705.6)		
TYPE	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

## 3 MINIMUM TESTS AND SPECIAL INSPECTIONS OF SOILS

N.T.S.

TESTING FOR SEISMIC RESISTANCE (2014 OSSC SECTION 1705.13)	
TESTING	
1. STRUCTURAL STEEL TESTING AND QUALIFICATION FOR SEISMIC RESISTANCE. TEST IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341.	OSSC SEC. 1705.13.1, AISC 341-16
2. NONSTRUCTURAL COMPONENTS: REVIEW CERTIFICATE OF COMPLIANCE FOR NONSTRUCTURAL COMPONENT, SUPPORT, OR ATTACHMENT FOR CONFORMANCE WITH ASCE 7-16 SECTION 13.2.1 WHERE QUALIFICATION IS ACHIEVED THROUGH ANALYSIS, TESTING, OR EXPERIENCE DATA.	OSSC SEC. 1705.13.2
3. DESIGNATED SEISMIC SYSTEMS: REVIEW CERTIFICATE OF COMPLIANCE FOR ELEMENTS OF THE DESIGNATED SEISMIC SYSTEM (WHERE NOTED ON THESE DRAWINGS) FOR CONFORMANCE WITH ASCE 7-16 SECTION 13.2.2.	OSSC SEC. 1705.13.3
4. SEISMIC ISOLATION SYSTEMS: TEST SEISMIC ISOLATION SYSTEM IN ACCORDANCE WITH ASCE 7-16 SECTION 17.8.	OSSC SEC. 1705.13.4, ASCE 7-16 SEC. 17.8

## 4 MINIMUM TEST FOR SEISMIC RESISTANCE

N.T.S.

REQUIRED VERIFICATION AND INSPECTION FOR SEISMIC RESISTANCE (2019 OSSC SECTION 1705.12)			
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC <sup>c</sup>	REFERENCED STANDARD
1. STRUCTURAL STEEL SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE: INSPECTION OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC 341.	-	O	OSSC SEC. 1705.12.1 AISC 341
2. STRUCTURAL WOOD SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:			OSSC SEC. 1705.12.2
a. INSPECTION OF FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC-FORCE RESISTING SYSTEM.	X	-	
b. INSPECTION OF NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS*, WOOD SHEAR PANELS*, WOOD DIAPHRAGMS*, DRAG STRUTS, AND HOLD-DOWNS.	-	X	* NOT REQUIRED WHERE FASTENER SPACING OF SHEATHING IS MORE THAN 4" O.C.
3. DESIGNATED SEISMIC SYSTEMS VERIFICATIONS: INSPECT AND VERIFY THAT THE COMPONENT LABEL, ANCHORAGE OR MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH SECTION 1705.12.4.	-	X	OSSC SEC. 1705.12.4
4. ARCHITECTURAL COMPONENTS SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:			OSSC SEC. 1705.12.5
a. INSPECTION DURING ERECTION AND FASTENING OF EXTERIOR CLADDING.	-	X	
b. INSPECTION DURING ERECTION AND FASTENING OF INTERIOR AND EXTERIOR VENEER.	-	X	
c. INSPECTION DURING THE ERECTION AND FASTENING OF INTERIOR AND EXTERIOR NONBEARING WALLS.	-	X	
d. INSPECTION DURING ANCHORAGE OF ACCESS FLOORS.	-	X	
5. PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:			OSSC SEC. 1705.12.6
a. INSPECTION DURING THE ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS.	-	X	
b. INSPECTION DURING THE ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT.	-	X	
c. INSPECTION DURING INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS, AND THEIR ASSOCIATED MECHANICAL UNITS.	-	X	
d. INSPECTION DURING THE INSTALLATION AND ANCHORAGE OF HVAC DUCTWORK THAT WILL CONTAIN HAZARDOUS MATERIALS.	-	X	
e. INSPECTION DURING THE INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEMS.	-	X	
f. INSPECTION OF MECHANICAL AND ELECTRICAL EQUIPMENT, INCLUDING DUCT WORK, PIPING SYSTEMS AND THEIR STRUCTURAL SYSTEMS, WHERE AUTOMATIC FIRE SPRINKLER SYSTEMS ARE INSTALLED IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F FOR MINIMUM CLEARANCES.	-	X	
6. STORAGE RACKS SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE: INSPECTION DURING THE ANCHORAGE OF STORAGE RACKS 9 FEET OR GREATER IN HEIGHT.	-	X	OSSC SEC. 1705.12.7
7. SEISMIC ISOLATION SYSTEMS: INSPECTION DURING THE FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES USED AS PART OF THE SEISMIC ISOLATION SYSTEM.	-	X	OSSC SEC. 1705.12.8

- a. "O" INDICATES AN ACTIVITY THAT IS EITHER A ONE-TIME ACTIVITY OR ONE WHOSE FREQUENCY IS ON A RANDOM BASIS OR IS DEFINED IN SOME OTHER MANNER (SEE REFERENCED CODE SECTION).

## 5 MINIMUM INSPECTION FOR SEISMIC RESISTANCE

N.T.S.

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION (2014 OSSC SECTION 1705.2.1 AND AISC 360-16 CHAPTER N) <sup>f</sup>			
VERIFICATION AND INSPECTION	PERFORM <sup>h</sup>	OBSERVE <sup>e</sup>	REF. STANDARD
1. FABRICATOR AND ERECTOR DOCUMENTS: VERIFY REPORTS, CERTIFICATIONS, SPECIFICATIONS AND QUALIFICATIONS LISTED IN AISC 360-16 SECTION N3 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.	-	X	AISC 360 N3
2. MATERIAL VERIFICATION OF STRUCTURAL STEEL.	-	X	
3. VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS.	-	X	AISC 360 N5.8
4. WELDING			AISC 360 N5.4
A. INSPECTION TASKS PRIOR TO WELDING			AISC TABLE N5.4-1
1. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	X	-	
2. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE.	X	-	
3. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	X	-	
4. MATERIAL IDENTIFICATION (TYPE/GRADE).	-	X	
5. WELDER IDENTIFICATION SYSTEM (THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.)	-	X	
6. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): JOINT PREPARATIONS, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), AND BACKING TYPE AND FIT (IF APPLICABLE).	-	X	
7. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY): JOINT PREPARATIONS, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES) AND TACKING (TACK WELD QUALITY AND LOCATION).	X	-	
8. CONFIGURATION AND FINISH OF ACCESS HOLES.	-	X	
9. FIT-UP OF FILLET WELDS: DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), AND TACKING (TACK WELD QUALITY AND LOCATION).	-	X	
10. CHECK WELDING EQUIPMENT.	-	X	
B. INSPECTION TASKS DURING WELDING			AISC TABLE N5.4-2
1. CONTROL AND HANDLING OF WELDING CONSUMABLES: PACKAGING, AND EXPOSURE CONTROL.	-	X	
2. NO WELDING OVER CRACKED TACK WELDS.	-	X	
3. ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, AND PRECIPITATION AND TEMPERATURE.	-	X	
4. WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/LOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN/MAX), AND PROPER POSITION (F,V,H,OH).	-	X	
5. WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, AND EACH PASS MEETS QUALITY REQUIREMENTS.	-	X	
6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	X	-	
C. INSPECTION TASKS AFTER WELDING			AISC TABLE N5.4-3
1. WELDS CLEANED.	-	X	
2. SIZE, LENGTH, AND LOCATION OF WELDS.	X	-	
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELDBASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY.	X	-	
4. ARC STRIKES.	X	-	
5. K-AREA (WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3" OF THE WELD).	X	-	
6. WELD ACCESS HOLE IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.	X	-	
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).	X	-	
8. REPAIR ACTIVITIES.	X	-	
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.	X	-	
10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR.	-	X	
D. NONDESTRUCTIVE TESTING OF WELDED JOINTS (EXCEPTION NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP. SEE AISC 360-16 N7).			AISC 360 N5.5
1. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV. UT ON 100% MAY BE REDUCED TO 25% PER AISC 360-10 N5e.	X	-	
2. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY II. UT ON 10%, MAY INCREASE TO 100% PER AISC 360-10 N5f.	X	-	
3. THERMALLY CUT SURFACES OF ACCESS HOLES WHEN MATERIAL ≥ 2".	X	-	
4. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1.	X	-	
5. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT.	X	-	

## 6 MINIMUM TESTS AND SPECIAL INSPECTION OF STEEL CONSTRUCTION

N.T.S.

VERIFICATION AND INSPECTION	PERFORM <sup>h</sup>	OBSERVE <sup>e</sup>	REF. STANDARD
5. BOLTING			AISC 360 N5.6
A. INSPECTION TASKS BEFORE BOLTING			AISC TABLE N5.6-1
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	X	-	
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.	-	X	
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).	-	X	
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	-	X	
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	-	X	
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENT FOR FASTENER ASSEMBLIES AND METHODS USED.	X	-	
7. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.	-	X	
B. INSPECTION TASKS DURING BOLTING			AISC TABLE N5.6-2
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	-	X	
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.	-	X	
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	-	X	
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	-	X	
C. INSPECTION TASKS AFTER BOLTING: DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	X	-	AISC TABLE N5.6-3
6. PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL. VERIFY DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE.	X	-	AISC 360 N5.7

- a. SEE AISC 360-10 CHAPTER N FOR ADDITIONAL INFORMATION NOT SHOWN HEREIN.

b. "PERFORM" INDICATES PERFORMANCE OF THE TASK FOR EACH STEEL ELEMENT, MEMBER, WELDED JOINT, OR BOLTED CONNECTION.

c. "OBSERVE" INDICATES OBSERVATION OF ITEM ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. THIS REQUIRES PURPOSEFUL, REGULAR, RANDOM INSPECTION WITH FREQUENCY THAT IS APPROPRIATE TO ASSURE THAT THE PROCESS IS BEING PERFORMED CORRECTLY.

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## REVISIONS

No.	Description	Date

DRAWN BY: ENS

CHECKED BY: JE

JOB NO: 22082.10

DATE: 04/22/2022

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SHEET TITLE

SPECIAL INSPECTIONS AND  
TESTING REQUIREMENTS

SHEET NO.

S-010

LEGEND:

BUILDING YEAR /  
CONSTRUCTION

- 1956

1956 BUILDING PORTION  
TYPE: WOOD FRAMED (W2)
- 1962

1962 BUILDING PORTION  
TYPE: WOOD FRAMED (W2)
- 1964

1964 BUILDING PORTION  
TYPE: WOOD FRAMED (W2)
- 1970

1970 BUILDING PORTION  
TYPE: WOOD FRAMED (W2)
- 1974

1974 BUILDING PORTION  
TYPE: WOOD FRAMED (W2)
- 1992

1992 BUILDING PORTION  
TYPE: WOOD FRAMED (W2)
- 2008

2008 BUILDING PORTION  
TYPE: WOOD FRAMED (W2)
- 1962/2008

1962 BUILDING PORTION, MODIFIED IN 2008  
TYPE: WOOD FRAMED (W2)

NOTE:

1) W2: WOOD FRAMES, COMMERCIAL OR INDUSTRIAL

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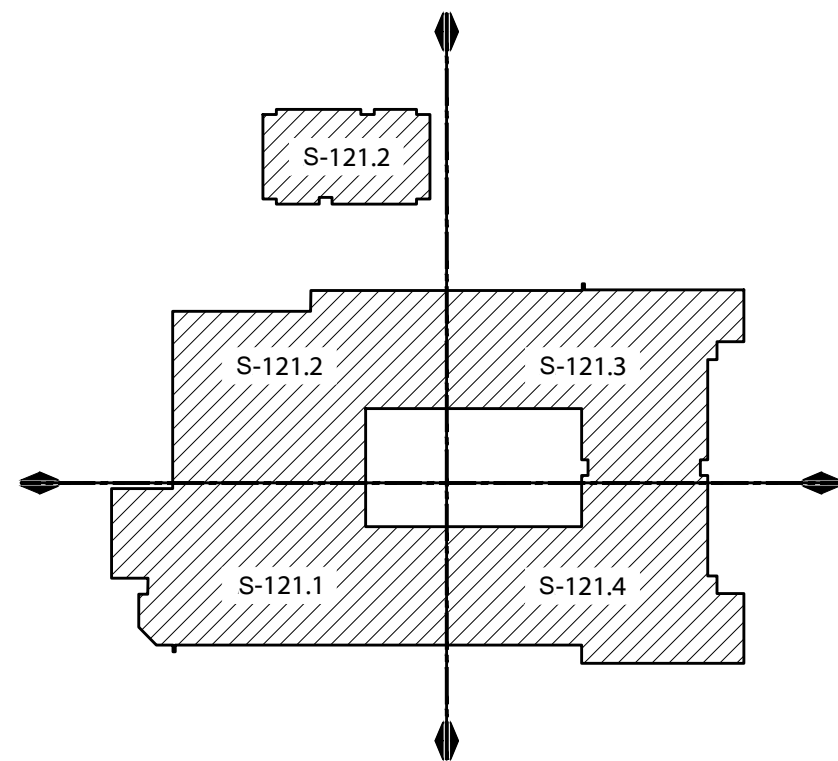
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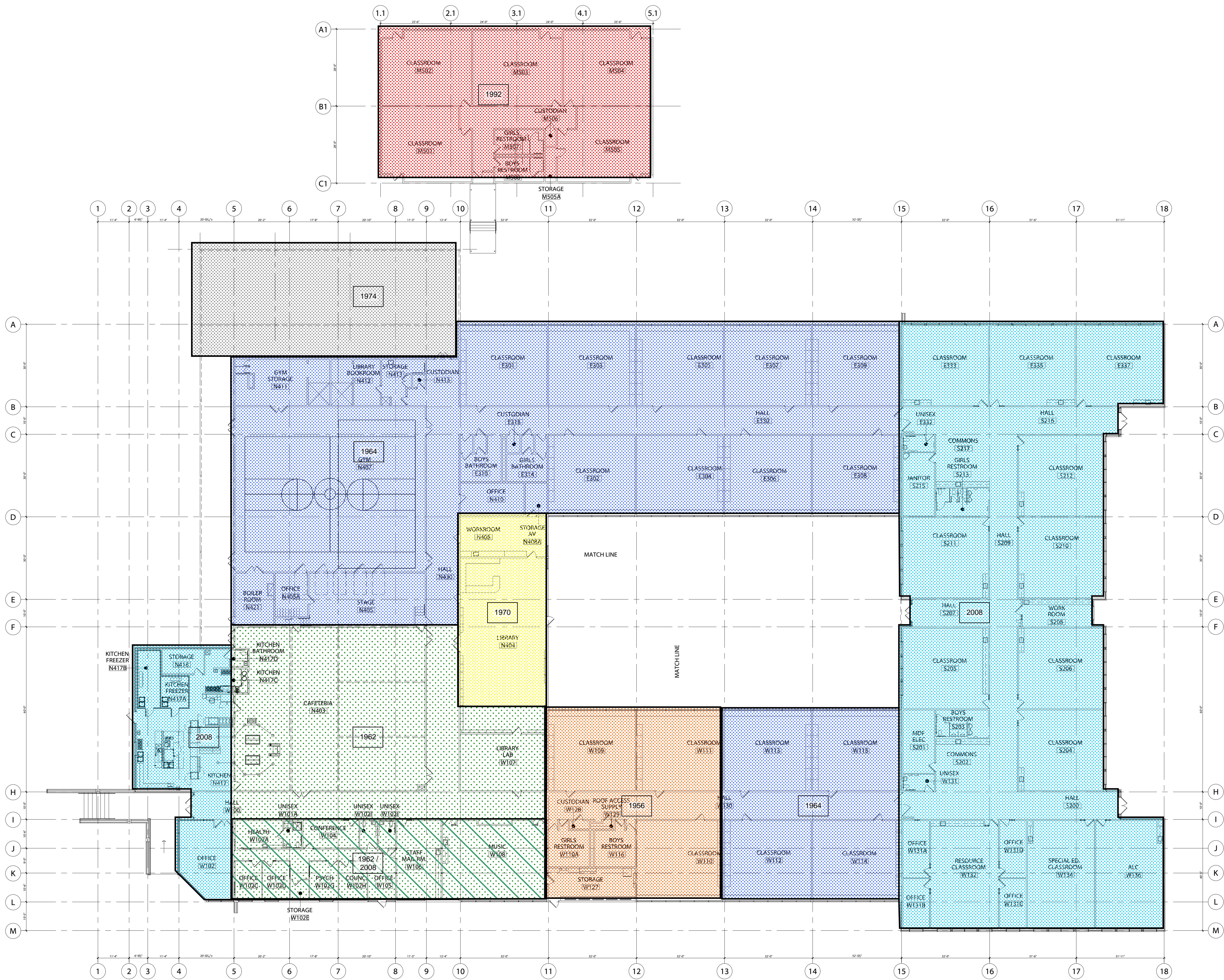
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JOB NO: 22082.10  
DATE: 04/22/2022  
ISSUED FOR: 100% DESIGN DEVELOPMENT  
SHEET TITLE  
BUILDING YEAR PLAN  
SHEET NO.

S-101

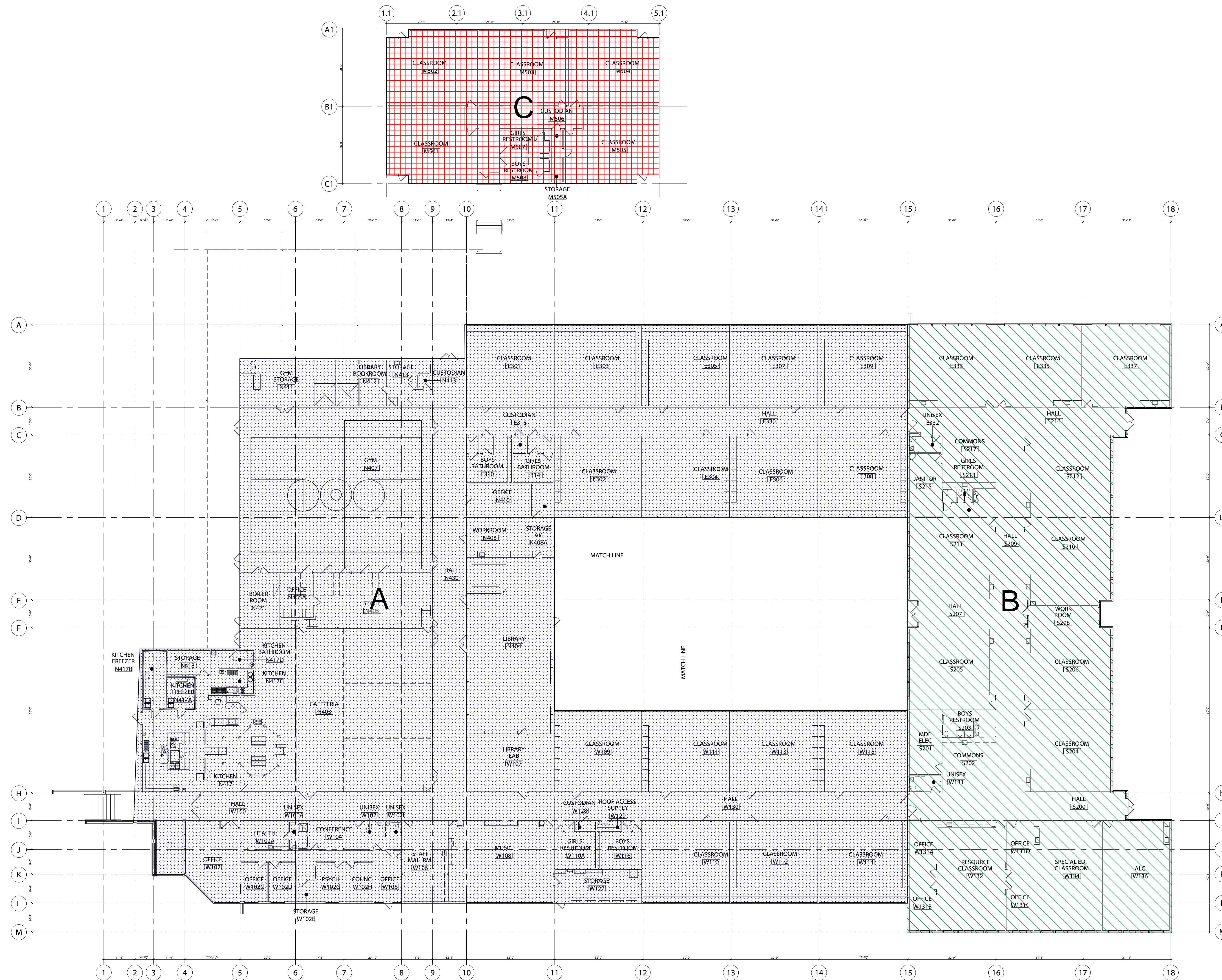


KEY PLAN  
SCALE: NOT TO SCALE

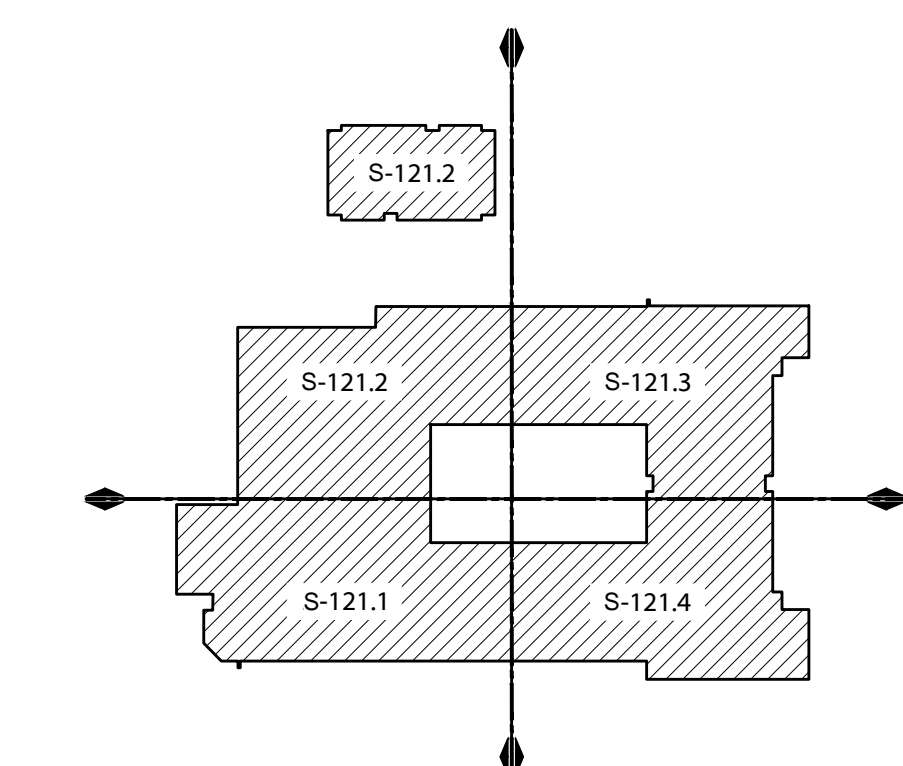


# LEGEND:

<b>BUILDING A</b>	
	RISK CATEGORY: IV
	STRUCTURAL PERFORMANCE LIFE SAFETY (S-3) AT BSE-2E IMMEDIATE OCCUPANCY (S-1) AT BSE-1E
	NONSTRUCTURAL PERFORMANCE HAZARD REDUCTION (N-D) AT BSE-2E POSITION RETENTION (N-B) AT BSE-1E
<b>BUILDING B</b>	
	RISK CATEGORY: III
	STRUCTURAL PERFORMANCE LIMITED SAFETY (S-4) AT BSE-2E
	NONSTRUCTURAL PERFORMANCE HAZARD REDUCTION (N-D) AT BSE-2E
<b>BUILDING C</b>	
	RISK CATEGORY: III
	STRUCTURAL PERFORMANCE LIMITED SAFETY (S-4) AT BSE-2E
	NONSTRUCTURAL PERFORMANCE HAZARD REDUCTION (N-D) AT BSE-2E



OVERALL FLOOR PLAN - PERFORMANCE OBJECTIVES



KEY PLAN  
SCALE: NOT TO SCALE

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SHEET TITLE  
PERFORMANCE OBJECTIVE  
PLAN  
SHEET NO.

S-102

SHEET NOTES:

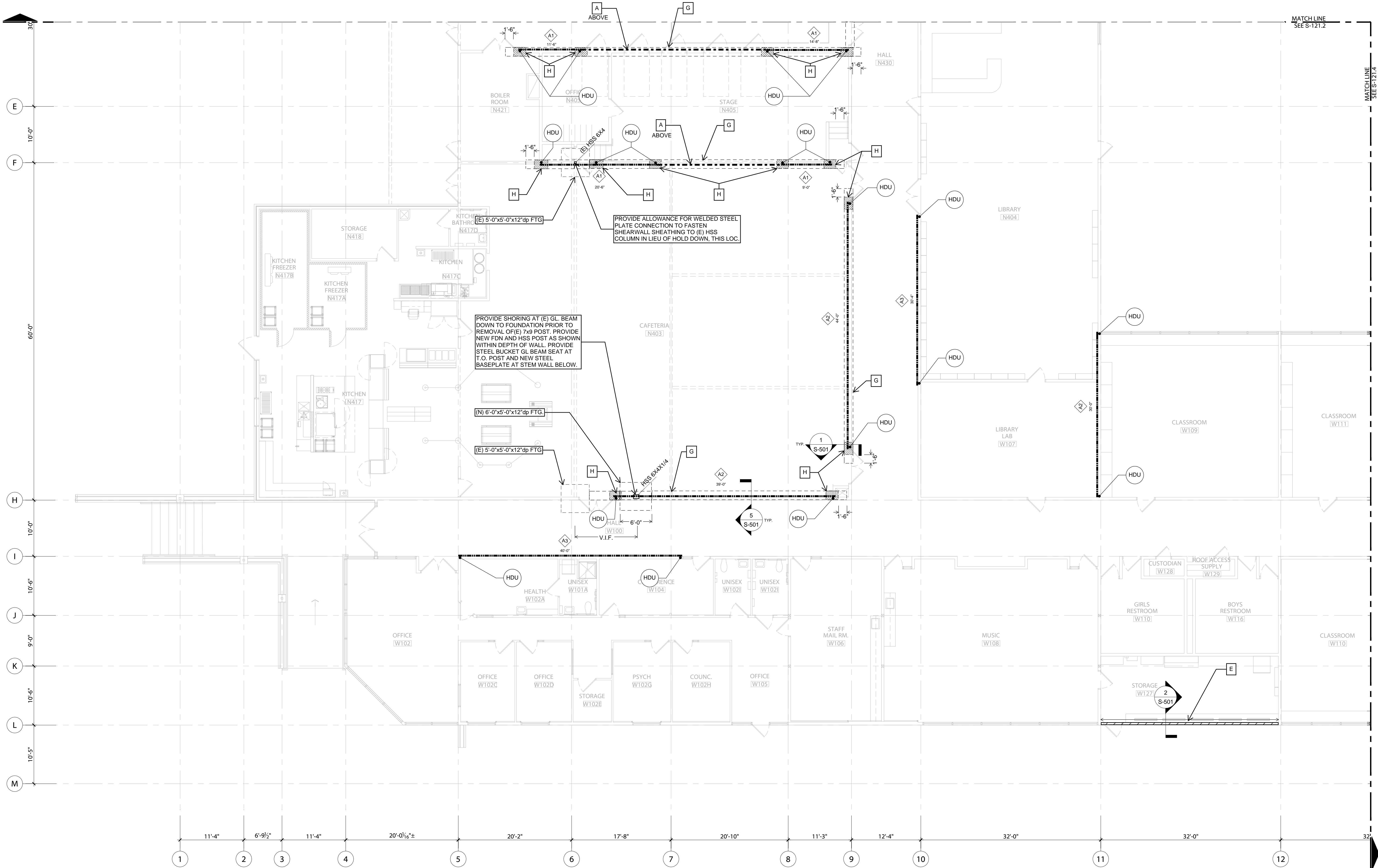
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND INFORMATION NOT SHOWN.
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- REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRING RETROFIT.
- INDICATES SHEAR WALL, SEE KEY NOTES BELOW FOR SHEAR WALL SCHEDULE INFORMATION.
- STRENGTHENING MEASURES ARE SHOWN HERE SUPERIMPOSED OVER ARCHITECTURAL DRAWINGS BY AXIS DESIGN GROUP.

KEY NOTES

- A** REMOVE EXISTING GYP BOARD WALL LINING AND EXPOSE EXISTING WOOD STUDS. PROVIDE NEW PLYWOOD NAILED AS SPECIFIED TO THE EXISTING STUDS. PROVIDE MIN. 2X BLOCKING AT EDGES OF ALL PANELS. REPLACE EXISTING ARCHITECTURAL FINISH.
- A1** PROVIDE (N) 15/32" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 3" O.C. E.N. PROVIDE (N) 3X STUDS SISTERED TO (E) 2X STUDS AT ALL PANEL EDGES, SW MARK, MIN. LENGTH.
- A2** PROVIDE (N) 3/8" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 4" O.C. E.N. PROVIDE (N) 2X STUDS SISTERED TO (E) 2X STUDS AT HOLDDOWNS, SW MARK, MIN. LENGTH.
- A3** PROVIDE (N) 3/8" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 6" O.C. E.N. PROVIDE (N) 2X STUDS SISTERED TO (E) 2X STUDS AT HOLDDOWNS, SW MARK, MIN. LENGTH.
- E** PROVIDE STEEL STRONG BACK TO SUPPORT (E) BRICK WALL. REFER TO 2/S-501.
- G** PROVIDE NEW FOUNDATION EXTENSION AS SHOWN ON 5/S-501. EXTENSION IS INTENDED TO BE BUILT AROUND EXISTING FOUNDATION. (N) BARS TO BE CORED THROUGH OR EPOXIED INTO (E) CONCRETE AS INDICATED.
- H** DEMO 4 FT OF (E) FOOTING AND PROVIDE NEW FOUNDATION SEGMENT AS SHOWN ON 1/S-501. SEGMENT INTENDED TO ALLOW FOR DEEP HOLDDOWN BOLT AT ENDS OF WALLS. RETAIN AND DO NOT DAMAGE (E) REINFORCEMENT. EPOXY DOWEL NEW BARS INTO THE (E) FOOTING AT EACH END.

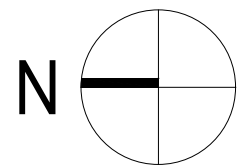
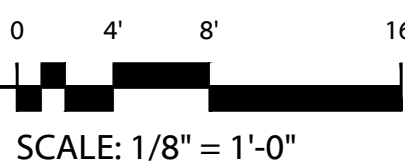
LEGEND:

- CONC. FOOTING OR GRADE BEAM
- (E) CONC. FOOTING OR GRADE BEAM
- (E) UNREINFORCED MASONRY (BRICK) WALL
- SHEAR WALL SHTG. S.W. MARK MIN. LENGTH
- SIMP. HDU HOLDDOWN. EPOXY INTO EXISTING FOUNDATION UNLESS DEMO/REPLACEMENT FOUNDATION SPECIFIED BY ITEM "H"
- NEW FRAMING
- WD. COLUMN
- (E) WD. COLUMN
- HSS COLUMN
- (E)HSS COLUMN



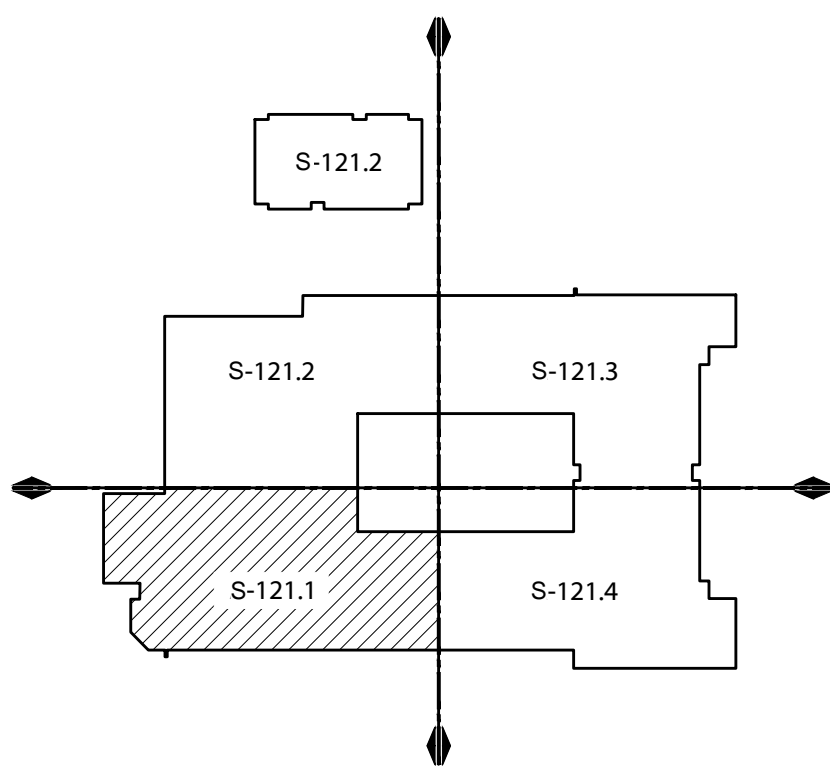
1 FOUNDATION / FLOOR FRAMING PLAN - SECTOR 1

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



KEY PLAN

SCALE: NOT TO SCALE



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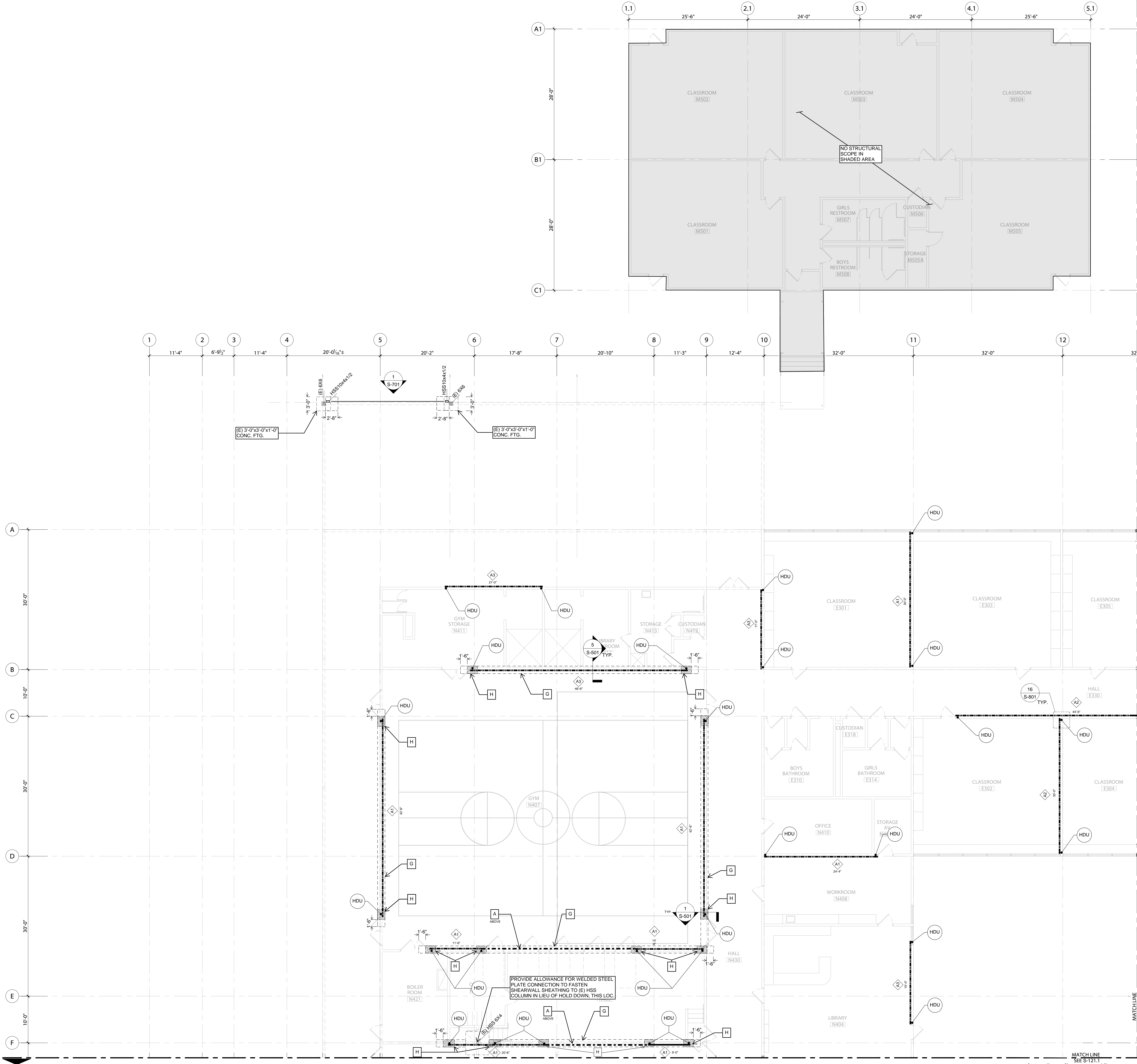
SHEET TITLE

FOUNDATION / FLOOR

FRAMING PLAN - SECTOR 1

SHEET NO.

S-121.1



1 FOUNDATION / FLOOR FRAMING PLAN - SECTOR 2  
SCALE: 1/8" = 1'-0"

**SHEET NOTES:**

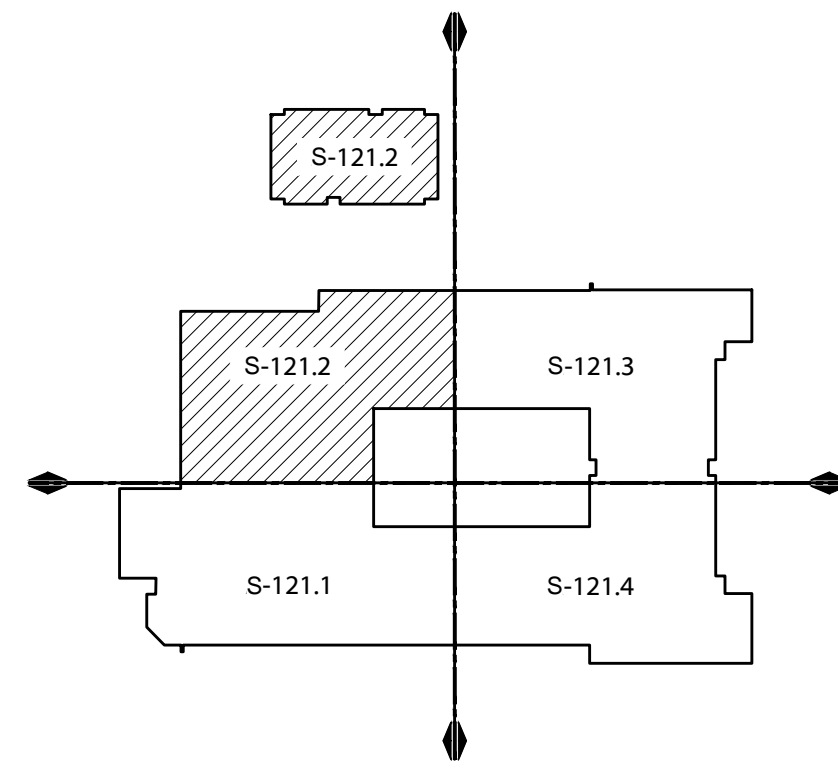
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**KEY NOTES**

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- PROVIDE (N) 3/8" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 4" O.C. E.N. PROVIDE (N) 2X STUDS SISTERED TO (E) 2X STUDS AT HOLDDOWNS. SW MARK, MIN. LENGTH.**
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- DEMO 4 FT OF (E) FOOTING AND PROVIDE NEW FOUNDATION SEGMENT AS SHOWN ON 1/S-501. SEGMENT INTENDED TO ALLOW FOR DEEP HOLDDOWN BOLT AT ENDS OF WALLS. RETAIN AND DO NOT DAMAGE (E) REINFORCEMENT. EPOXY DOWEL NEW BARS INTO THE (E) FOOTING AT EACH END.**

**LEGEND:**

- |  |  |  |                |
|--|--|--|----------------|
|  | CONC. FOOTING OR GRADE BEAM  |  | NEW FRAMING    |
|  | (E) CONC. FOOTING OR GRADE BEAM  |  | WD. COLUMN     |
|  | (E) UNREINFORCED MASONRY (BRICK) WALL  |  | (E) WD. COLUMN |
|  | SHEAR WALL SHGT. S.W. MARK MIN. LENGTH   |  | HSS COLUMN     |
|  | SIMP. HDU HOLD DOWN. EPOXY INTO EXISTING FOUNDATION UNLESS DEMO/REPLACEMENT FOUNDATION SPECIFIED BY ITEM "H" |  | (E)HSS COLUMN  |



KEY PLAN  
SCALE: NOT TO SCALE

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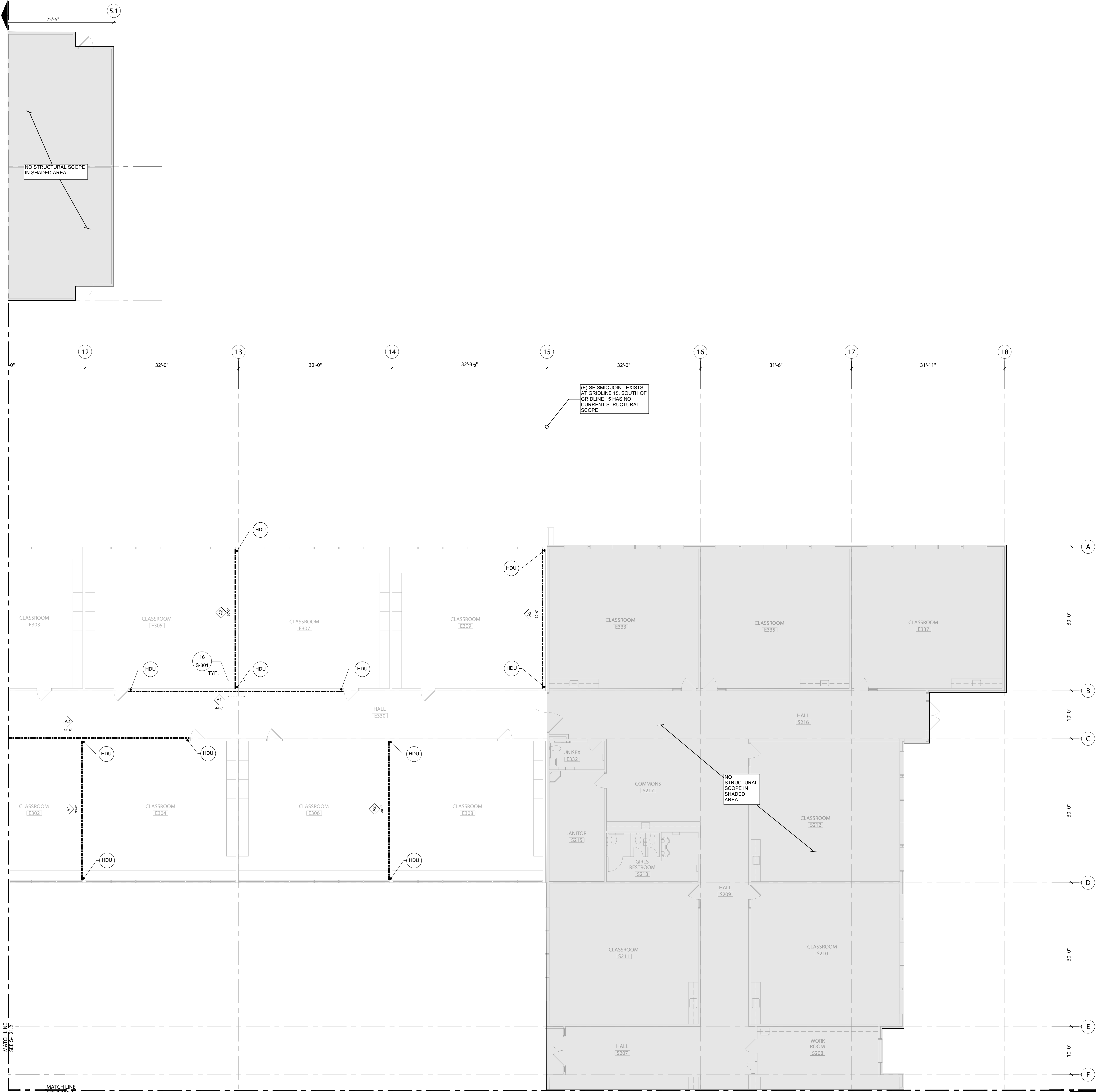
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SCHOOL DISTRICT

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JOB NO: 22082.10  
DATE: 04/22/2022  
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SHEET TITLE  
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FRAMING PLAN - SECTOR 2  
SHEET NO.

S-121.2



1 FOUNDATION / FLOOR FRAMING PLAN - SECTOR 3

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

SHEET NOTES:

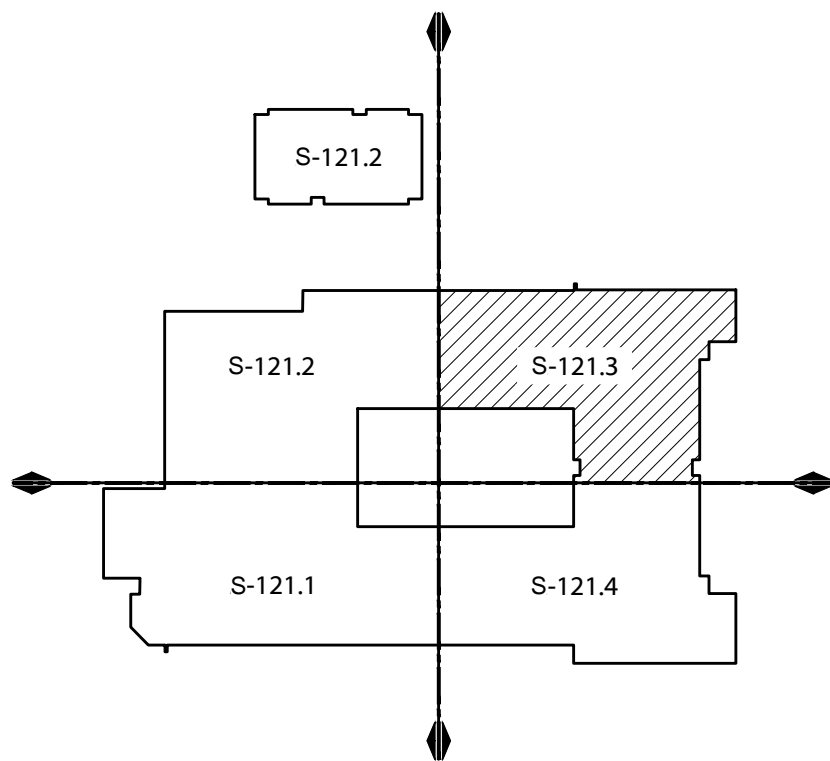
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LEGEND:

- CONC. FOOTING OR GRADE BEAM
- (E) CONC. FOOTING OR GRADE BEAM
- (E) UNREINFORCED MASONRY (BRICK) WALL
- SHEAR WALL SHTG. S.W. MARK MIN. LENGTH
- SIMP. HDU HOLDDOWN. EPOXY INTO EXISTING FOUNDATION UNLESS DEMO/REPLACEMENT FOUNDATION SPECIFIED BY ITEM "H"
- NEW FRAMING
- WD. COLUMN
- (E) WD. COLUMN
- HSS COLUMN
- (E)HSS COLUMN



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SEISMIC IMPROVEMENTS AND ROOFING REPLACEMENT  
BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL  
1500 NW 185TH AVE.  
BEAVERTON, OR 97006



REVISIONS		
No.	Description	Date

DRAWN BY: ENS  
CHECKED BY: JE  
JOB NO: 22082.10  
DATE: 04/22/2022  
ISSUED FOR: 100% DESIGN DEVELOPMENT  
SHEET TITLE  
FOUNDATION / FLOOR  
FRAMING PLAN - SECTOR 3  
SHEET NO.

S-121.3

1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND INFORMATION NOT SHOWN.
2. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR RELATED NON-STRUCTURAL ELEMENTS EMBEDDED OR CONNECTED TO THE STRUCTURE.
3. FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS.
4. FIELD VERIFY ALL FINISHES AND SERVICES TO BE REPLACED FOR CONSTRUCTION.
5. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRING RETROFIT.
6.  INDICATES SHEAR WALL. SEE KEY NOTES BELOW FOR SHEAR WALL SCHEDULE INFORMATION.
7. STRENGTHENING MEASURES ARE SHOWN HERE SUPERIMPOSED OVER ARCHITECTURAL DRAWINGS BY AXIS DESIGN GROUP FOR GENERAL STRUCTURAL CONCEPT.

**A**  REMOVE EXISTING GYP BOARD WALL LINING AND EXPOSE EXISTING WOOD STUDS. PROVIDE NEW PL WOOD NAILED AS FOOTING TO THE EXISTING STUDS. PROVIDE MIN 2X BLOCKING AT EDGES OF ALL PANELS. REPLACE EXISTING ARCHITECTURAL FINISH.

**A1**  PROVIDE (N) 1/52\"

**A2**  PROVIDE (N) 3/8\"

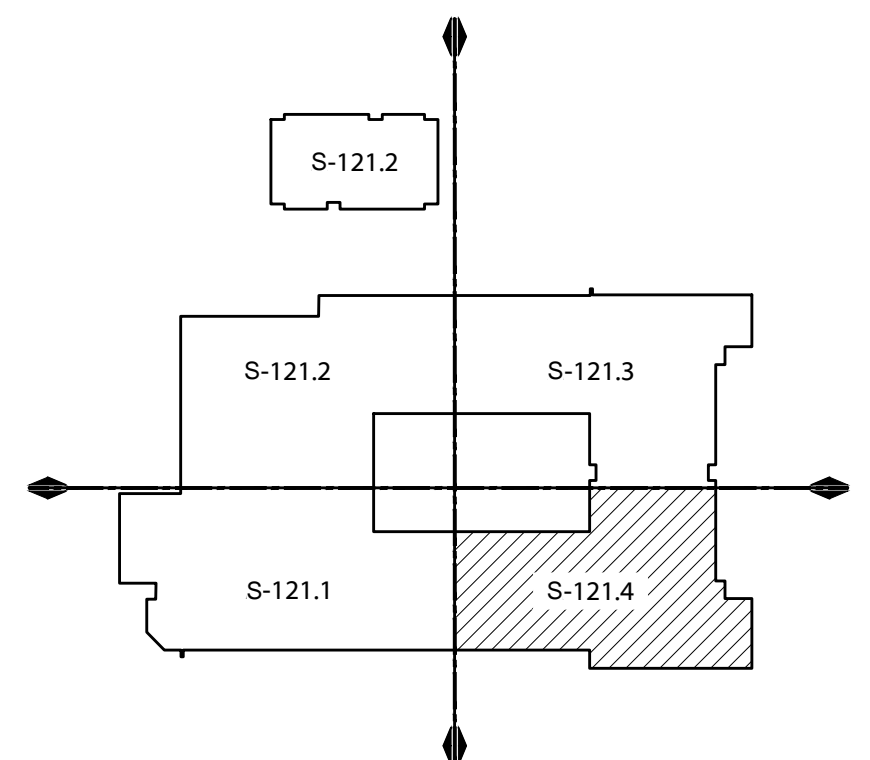
**A3**  PROVIDE (N) 3/8\"

**E**  PROVIDE STEEL STRONG BACK TO SUPPORT (E) BRICK WALL. REFER TO 2/5-501.

**G**  PROVIDE NEW FOUNDATION EXTENSION AS SHOWN ON 5/5-501. EXTENSION IS INTENDED TO BE BUILT AROUND EXISTING FOUNDATION. (N) BARS TO BE CORED THROUGH OR EPOXYED INTO (E) CONCRETE AS INDICATED.

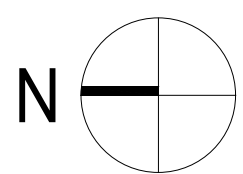
**H**  DEMO 4 FT OF (E) FOOTING AND PROVIDE NEW FOUNDATION SEGMENT AS SHOWN ON 1/5-501. SEGMENT INTENDED TO ALLOW FOR DEEP HOLDDOWN BOLT AT EDGES OF WALLS. RETAIN AND DO NOT DAMAGE (E) REINFORCEMENT. EPOXY DOWEL NEW BARS INTO THE (E) FOOTING AT EACH END.

	CONC. FOOTING OR GRADE BEAM		NEW FRAMING
	(E) CONC. FOOTING OR GRADE BEAM		WD. COLUMN
	(E) UNREINFORCED MASONRY (BRICK) WALL		(E) WD. COLUMN
			HSS COLUMN
	SHEAR WALL SHTG. S.W. MARK MIN. LENGTH		(E)HSS COLUMN
	SIMP. HDU HOLDDOWN. EPOXY INTO EXISTING FOUNDATION UNLESS DEMO/REPLACEMENT FOUNDATION SPECIFIED BY ITEM "H"		



0 4' 8' 16'

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



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**DESIGN GROUP**  
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BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL  
15300 NW 185TH AVE.



**BEAVERTON**  
SCHOOL DISTRICT

[illegible]

NO: 22082.10

E. 04/22/2022

ET TITLE

#### AMING PLAN - SECTOR 4

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ET NO.

S-121 4

SHEET NOTES:

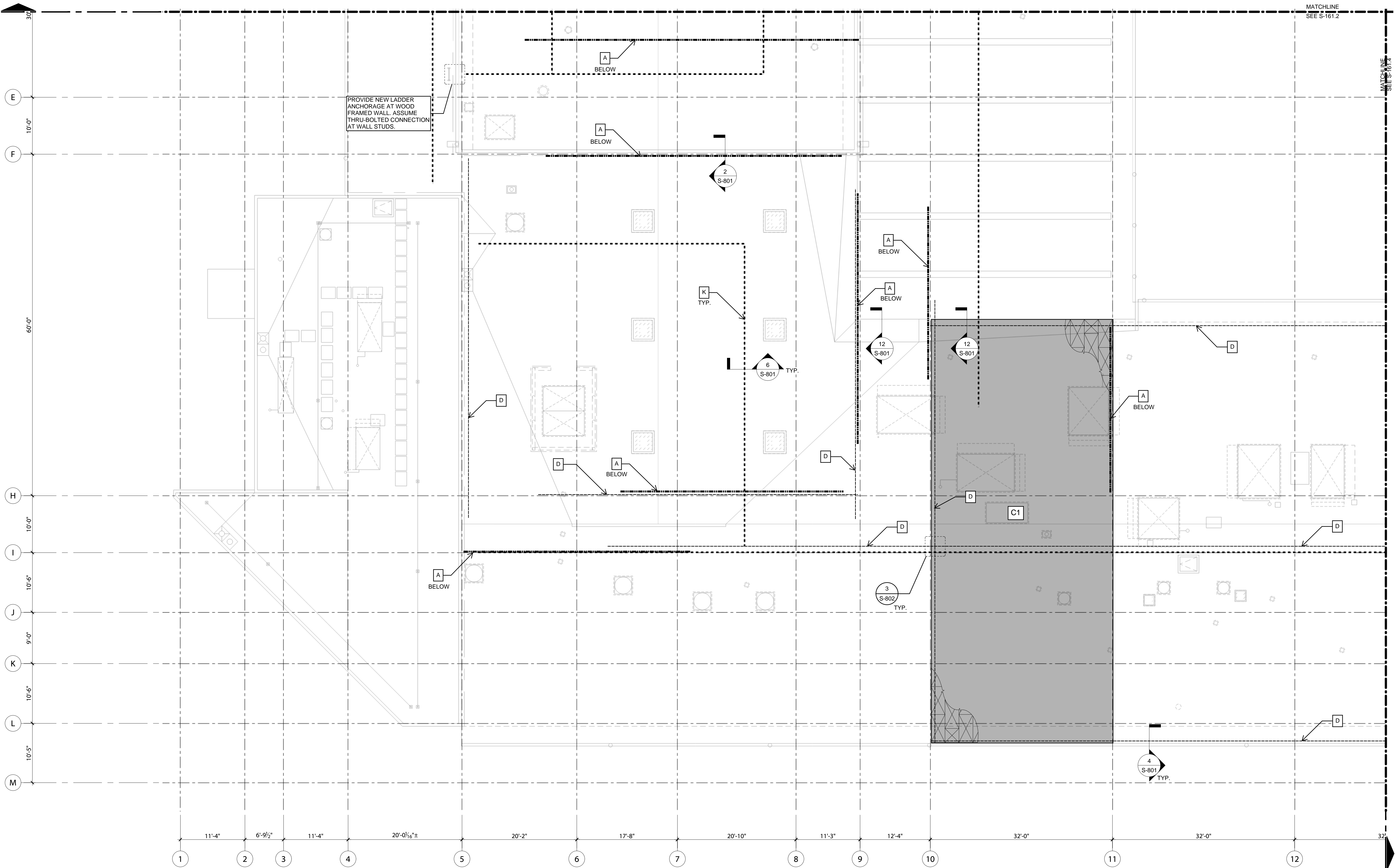
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- STRENGTHENING MEASURES ARE SHOWN HERE SUPERIMPOSED OVER ARCHITECTURAL DRAWINGS BY AXIS DESIGN GROUP FOR GENERAL STRUCTURAL CONCEPT.

KEY NOTES

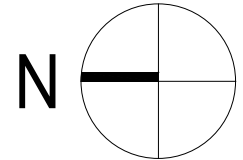
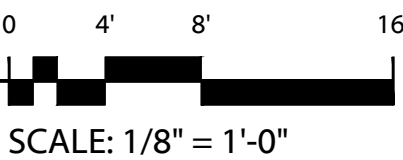
- A** REMOVE EXISTING GYP BOARD WALL LINING AND EXPOSE EXISTING WOOD STUDS. PROVIDE NEW PLYWOOD NAILED AS SPECIFIED TO THE EXISTING STUDS. PROVIDE MIN. 2X BLOCKING AT EDGES OF ALL PANELS. REPLACE EXISTING ARCHITECTURAL FINISH.
- A1** PROVIDE (N) 15/32" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 3" O.C. E.N. PROVIDE (N) 3X STUDS SISTERED TO (E) 2X STUDS AT ALL PANEL EDGES, SW MARK, MIN. LENGTH.
- A2** PROVIDE (N) 3/8" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 4" O.C. E.N. PROVIDE (N) 2X STUDS SISTERED TO (E) 2X STUDS AT HOLDDOWNS, SW MARK, MIN. LENGTH.
- A3** PROVIDE (N) 3/8" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 6" O.C. E.N. PROVIDE (N) 2X STUDS SISTERED TO (E) 2X STUDS AT HOLDDOWNS, SW MARK, MIN. LENGTH.
- C** PROVIDE NEW PLYWOOD OVERLAY NAILED TO EXISTING WOOD SHEATHING. REMOVE AND REPLACE EXISTING ROOFING AS REQUIRED. INTEGRATE NEW PLYWOOD DIAPHRAGM INTO ADJACENT DIAPHRAGMS. ADJUST (E) MECHANICAL UNITS PER NEW ROOFING ELEVATIONS.
- C1** PROVIDE (N) 3/8" THK PLYWOOD SHEATHING OVERLAIN ON (E) STRAIGHT SHEATHING. PROVIDE 8d NAILS AT 6" O.C. AT DIAPHRAGM BOUNDARIES AND ALL SUPPORTED PANEL EDGES. PROVIDE STRAP BLOCKING AT ROOF BOUNDARIES.
- D** PROVIDE NEW METAL STRAP OVER NEW PLYWOOD DIAPHRAGM NAILED INTO (E) WALL TOP CHORD PER MANUFACTURER REQUIREMENTS. WHEN AT EDGE CONNECT TO (N) WALL PER DETAIL 4/S-801. SPLICE STRAPS PER 3/S-802 AND 4/S-802.
- F** PROVIDE NEW STRAP CONNECTION BETWEEN EXISTING GLULAM BEAMS. REFER TO SIMILAR DETAIL 8/S-801.
- K** PROVIDE NEW FRAMING AT NEW FALL ARREST ANCHOR LOCATIONS. SEE TYPICAL DETAIL 6/S-801 FOR ATTACHMENT TO STRUCTURE. APPROXIMATE LOCATION SHOWN - SEE ARCHITECTURAL PLANS FOR FALL ARREST ANCHORS LOCATIONS.

LEGEND:

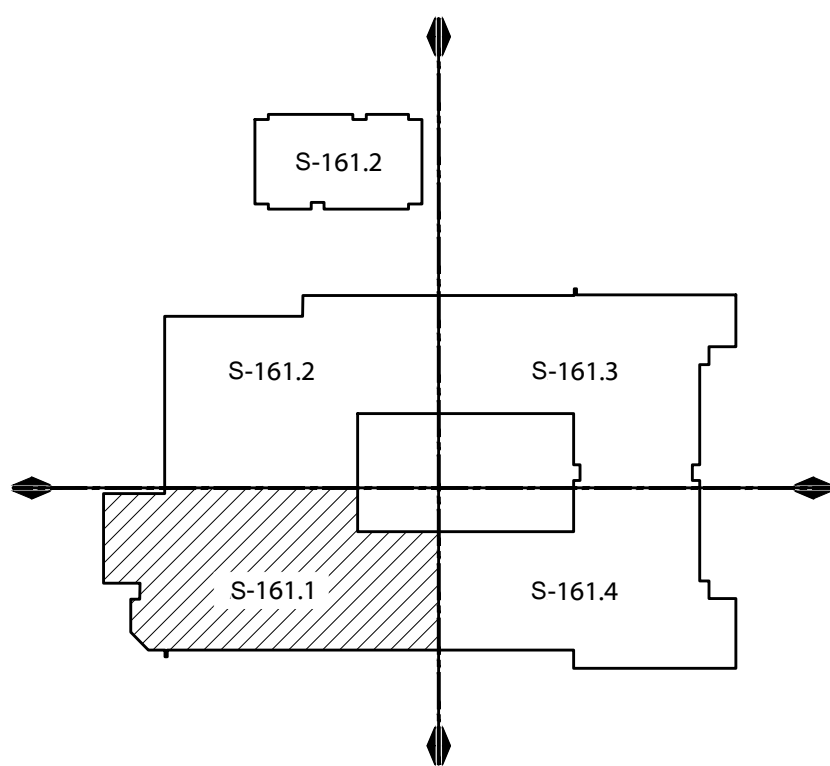
- PLYWOOD OVERLAY PER KEY NOTE C1**
- A3** SHEAR WALL SHTG. S.W. MARK. MIN. LENGTH
- NEW METAL STRAP OVER PLYWOOD DIAPHRAGM, SEE KEY NOTE D
- SIMPSON STRAP CONNECTION, SEE KEY NOTE F
- LINE OF FALL PROTECTION ANCHORS, SEE KEY NOTE K
- NEW FRAMING
- STEEL COLUMN (B)
- WD. COLUMN (B)



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



KEY PLAN  
SCALE: NOT TO SCALE



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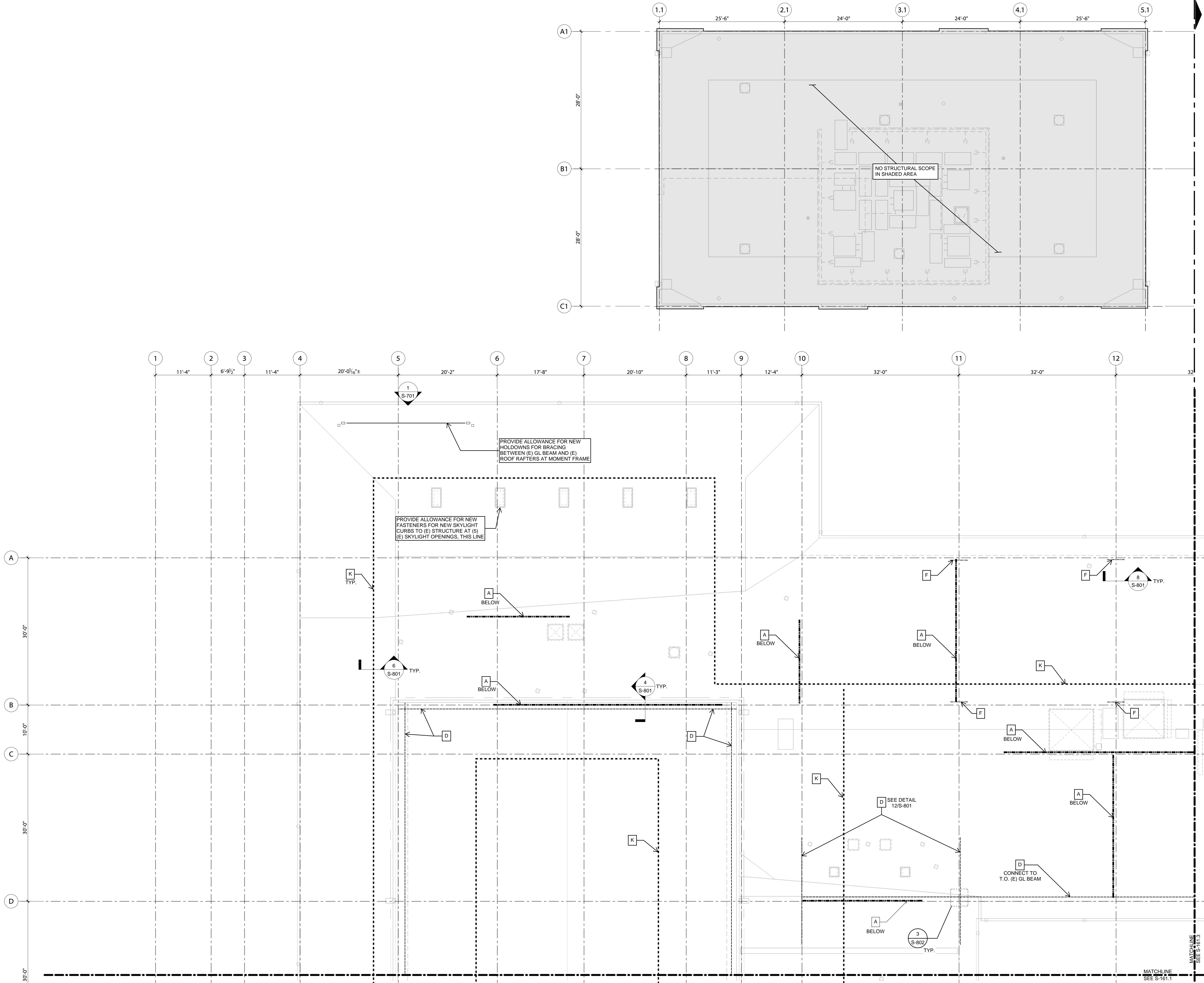


REVISIONS		
No.	Description	Date

DRAWN BY: ENS  
CHECKED BY: JE  
JOB NO: 22082.10  
DATE: 04/22/2022  
ISSUED FOR: 100% DESIGN DEVELOPMENT  
SHEET TITLE  
ROOF FRAMING PLAN -  
SECTOR 1  
SHEET NO.


S-161.1

S:\Projects\2023\Projects\2-2002\_BSD2\_MKES-NRESF\_Drawings\F2\_Current\CAD\Mckinley\A-161.2\_2-2002\_BSD2\_MKES-NRESF\_Roof Plan\_Sector 2.dwg © Plot Date: Apr 19 2022 © Time: 7:16 PM

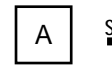



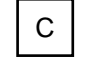
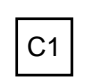
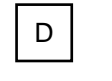

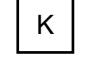


1 ROOF FRAMING PLAN - SECTOR 2  
SCALE: 1/8" = 1'-0"









**SHEET NOTES:**

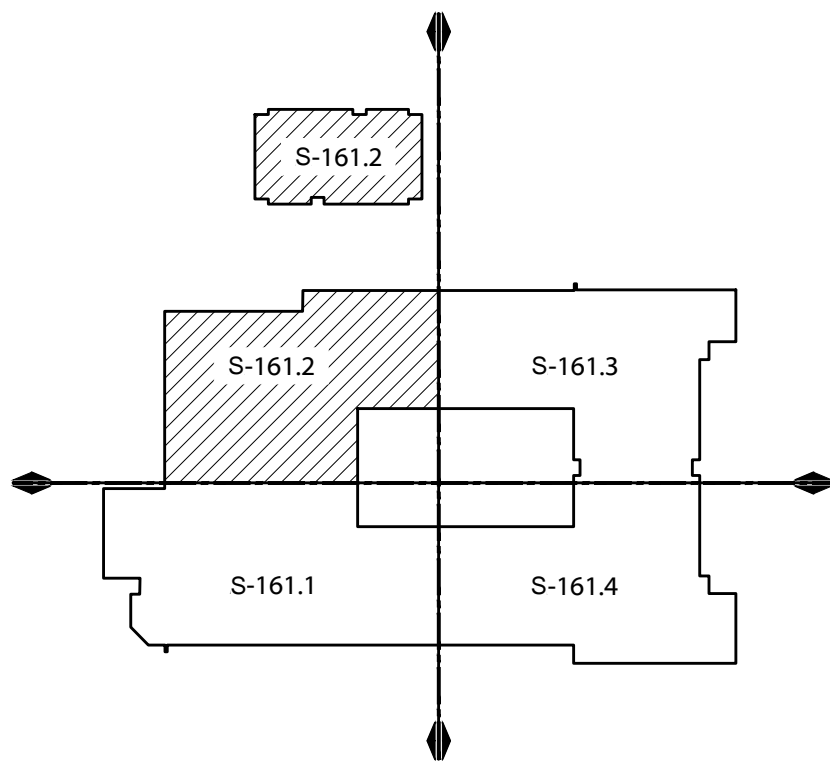
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**KEY NOTES**

-  REMOVE EXISTING GYP BOARD WALL LINING AND EXPOSE EXISTING WOOD STUDS. PROVIDE NEW PLYWOOD NAILED AS SPECIFIED TO THE EXISTING STUDS. PROVIDE MIN. 2X BLOCKING AT EDGES OF ALL PANELS. REPLACE EXISTING ARCHITECTURAL FINISH.
-  PROVIDE (N) 15/32" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 3" O.C. E.N. PROVIDE (N) 3X STUDS SISTERED TO (E) 2X STUDS AT ALL PANEL EDGES, SW MARK, MIN. LENGTH.
-  PROVIDE (N) 3/8" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 4" O.C. E.N. PROVIDE (N) 2X STUDS SISTERED TO (E) 2X STUDS AT HOLDDOWNS, SW MARK, MIN. LENGTH.
-  PROVIDE (N) 3/8" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 6" O.C. E.N. PROVIDE (N) 2X STUDS SISTERED TO (E) 2X STUDS AT HOLDDOWNS, SW MARK, MIN. LENGTH.
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-  PROVIDE (N) 3/8" THK PLYWOOD SHEATHING OVERLAIN ON (E) STRAIGHT SHEATHING. PROVIDE 6d NAILS AT 6" O.C. AT DIAPHRAGM BOUNDARIES AND ALL SUPPORTED PANEL EDGES. PROVIDE STRAP BLOCKING AT ROOF BOUNDARIES.
-  PROVIDE NEW METAL STRAP OVER NEW PLYWOOD DIAPHRAGM NAILED INTO (E) WALL TOP CHORD PER MANUFACTURER REQUIREMENTS. WHEN AT EDGE CONNECT TO (N) WALL PER DETAIL 4/S-801. SPLICE STRAPS PER 3/S-802 AND 4/S-802.
-  PROVIDE NEW STRAP CONNECTION BETWEEN EXISTING GLULAM BEAMS. REFER TO SIMILAR DETAIL 8/S-801.
-  PROVIDE NEW FRAMING AT NEW FALL ARREST ANCHOR LOCATIONS. SEE TYPICAL DETAIL 6/S-801 FOR ATTACHMENT TO STRUCTURE. APPROXIMATE LOCATION SHOWN - SEE ARCHITECTURAL PLANS FOR FALL ARREST ANCHORS LOCATIONS.

**LEGEND:**

-  PLYWOOD OVERLAY PER KEY NOTE C1
-  SHEAR WALL SHGT. S.W. MARK, MIN. LENGTH
-  NEW METAL STRAP OVER PLYWOOD DIAPHRAGM, SEE KEY NOTE D
-  SIMPSON STRAP CONNECTION, SEE KEY NOTE F
-  LINE OF FALL PROTECTION ANCHORS, SEE KEY NOTE K
-  NEW FRAMING
-  STEEL COLUMN (B)
-  WD. COLUMN (B)



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BEAVERTON, OR 97006



**REVISIONS**

No.	Description	Date

DRAWN BY: ENS

CHECKED BY: JE

JOB NO: 22082.10

DATE: 04/22/2022

ISSUED FOR: 100% DESIGN DEVELOPMENT

SHEET TITLE

ROOF FRAMING PLAN -  
SECTOR 2

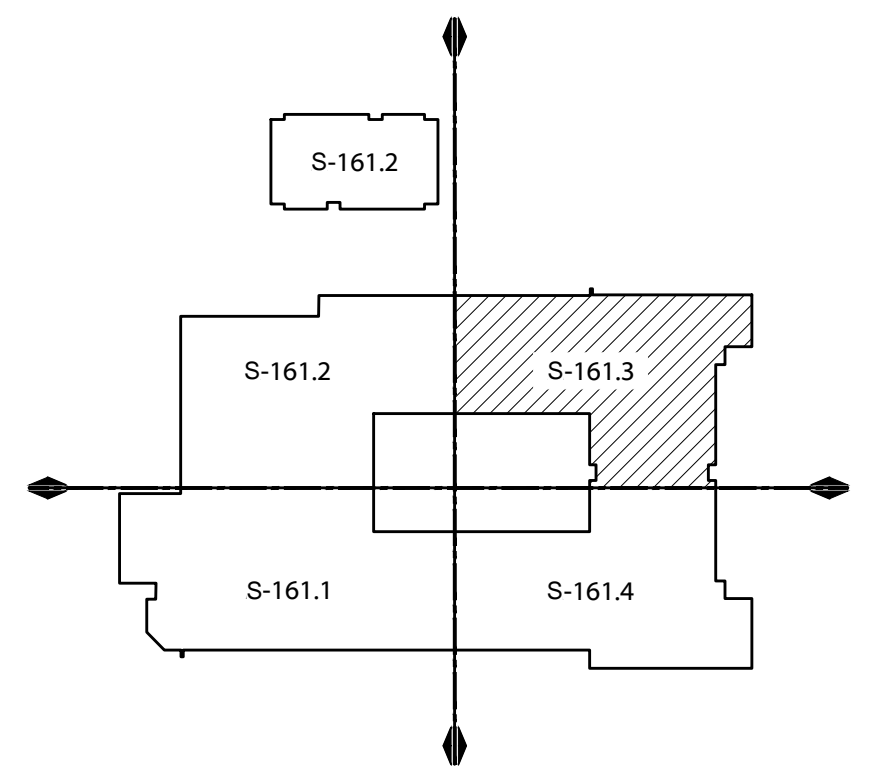
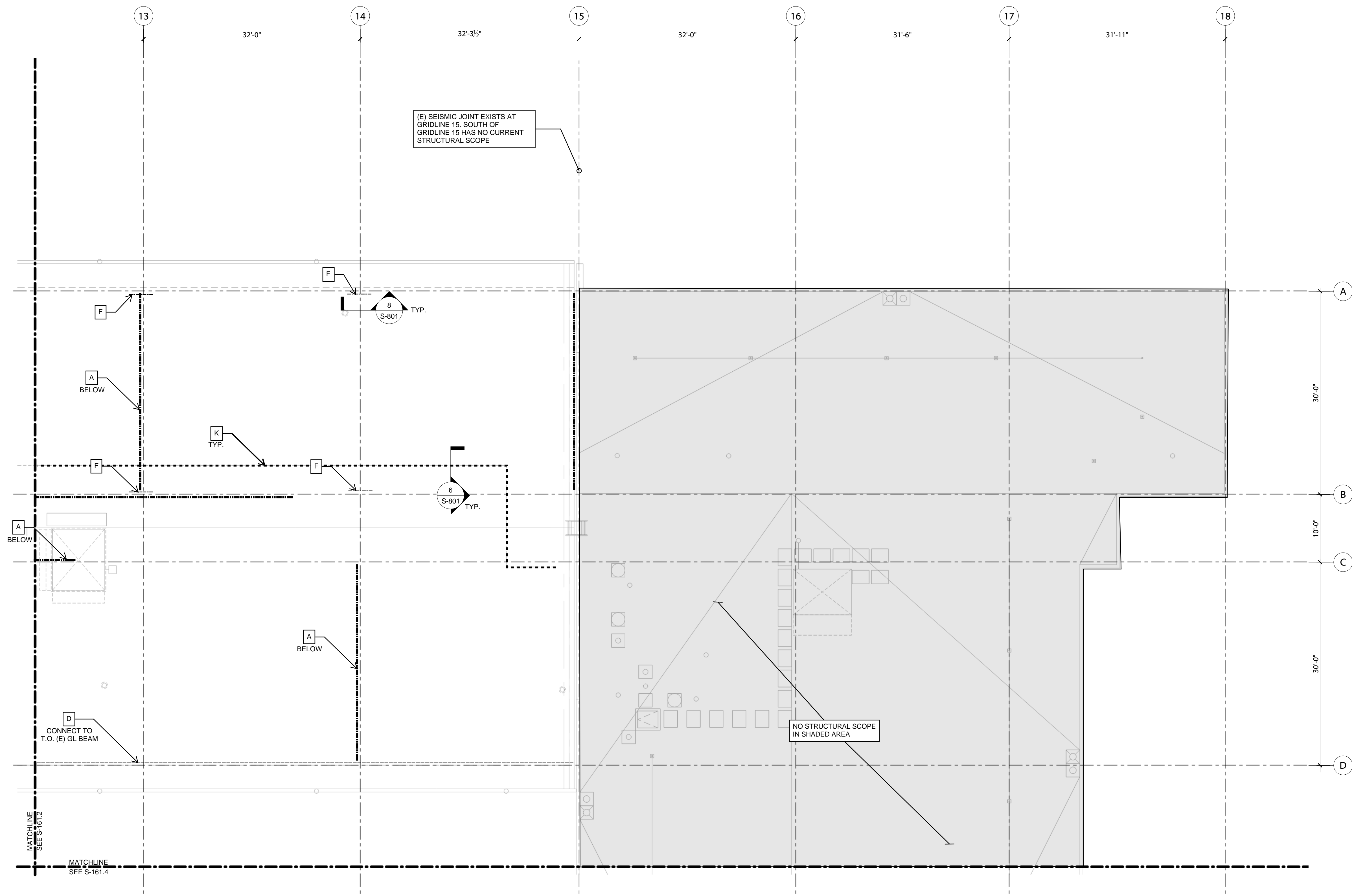
SHEET NO.

S-161.2

1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND INFORMATION NOT SHOWN.
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A		<p>REMOVE EXISTING GPY BOARD WALL LINING AND EXPOSE EXISTING WOOD STUDS. PROVIDE NEW PLYWOOD NAILED AS SPECIFIED TO THE EXISTING STUDS. PROVIDE 1/2" MIN. 2X BLOCKING AT EDGES OF ALL PANELS. REPLACE EXISTING ARCHITECTURAL FINISH.</p>
		<p>PROVIDE (N) 1/52" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 3" O.C. E.N. PROVIDE (N) 3X STUDS SISTERED TO (E) 2X STUDS AT ALL PANEL EDGES, SW MARK, MIN. LENGTH.</p>
		<p>PROVIDE (N) 3/8" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 4" O.C. E.N. PROVIDE (N) 2X STUDS SISTERED TO (E) 2X STUDS AT HOLDDOWNS, SW MARK, MIN. LENGTH.</p>
		<p>PROVIDE (N) 3/8" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 6" O.C. E.N. PROVIDE (N) 2X STUDS SISTERED TO (E) 2X STUDS AT HOLDDOWNS, SW MARK, MIN. LENGTH.</p>
C		<p>PROVIDE NEW PLYWOOD OVERLAY NAILED TO EXISTING WOOD SHEATHING. REMOVE AND REPLACE EXISTING ROOFING AS REQUIRED. INTEGRATE NEW PLYWOOD DIAPHRAGM TO ADJACENT DIAPHRAGMS. ADJUST (E) MECHANICAL UNITS FOR NEW ROOFING ELEMENTS.</p>
C1		<p>PROVIDE (N) 3/8" THK PLYWOOD SHEATHING OVERLAD ON (E) STRAIGHT SHEATHING. PROVIDE 8d NAILS AT 6" O.C. AT DIAPHRAGM BOUNDARIES AND ALL SUPPORTED PANEL EDGES. PROVIDE STRAP BLOCKING AT ROOF BOUNDARIES.</p>
D		<p>PROVIDE NEW METAL STRAP OVER NEW PLYWOOD DIAPHRAGM NAILED INTO (E) WALL TOP CHORD PER MANUFACTURER REQUIREMENTS. WHEN AT EDGE CONNECT TO (N) WALL PER DETAIL 4/S-801. SPLICE STRAPS PER 3/S-802 AND 4/S-802.</p>
F		<p>PROVIDE NEW STRAP CONNECTION BETWEEN EXISTING GLULAM BEAMS. REFER TO SIMILAR DETAIL 6/S-881.</p>
K		<p>PROVIDE NEW FRAMING AT NEW WALL ARREST ANCHOR LOCATIONS. SEE TYPICAL DETAIL 6/S-801 FOR ATTACHMENT TO STRUCTURE. APPROXIMATE LOCATION SHOWN - SEE ARCHITECTURAL PLANS FOR ALL ARREST ANCHORS LOCATIONS.</p>

	PLYWOOD OVERLAY PER KEY NOTE C1		NEW METAL STRAP OVER PLYWOOD DIAPHRAGM. SEE KEY NOTE D
	SHEAR WALL SHTG. S.W. MARK MIN. LENGTH		SIMPSON STRAP CONNECTION, SEE KEY NOTE F
			LINE OF FALL PROTECTION ANCHORS. SEE KEY NOTE K
			NEW FRAMING
			STEEL COLUMN (B)
			WD. COLUMN (B)



SHEET NOTES:

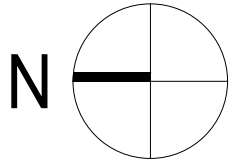
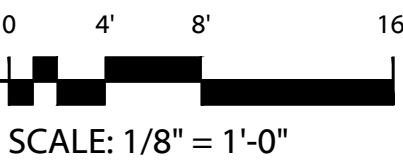
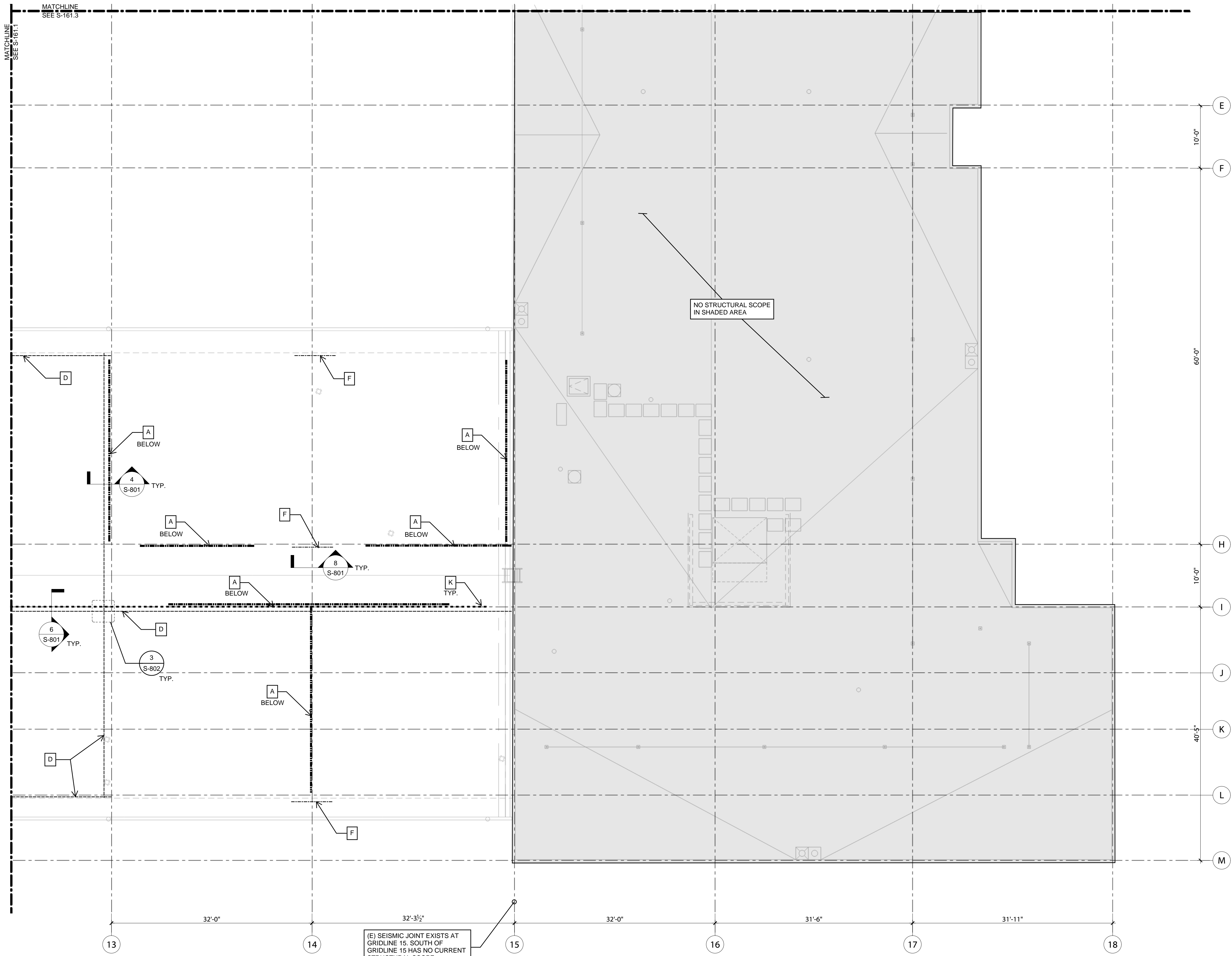
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- A1** PROVIDE (N) 15/32" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 3" O.C. E.N. PROVIDE (N) 3X STUDS SISTERED TO (E) 2X STUDS AT ALL PANEL EDGES, SW MARK, MIN. LENGTH.
- A2** PROVIDE (N) 3/8" STRUCTURAL PANEL SHEATHING. USE 8d NAILS AT 4" O.C. E.N. PROVIDE (N) 2X STUDS SISTERED TO (E) 2X STUDS AT HOLDDOWNS, SW MARK, MIN. LENGTH.
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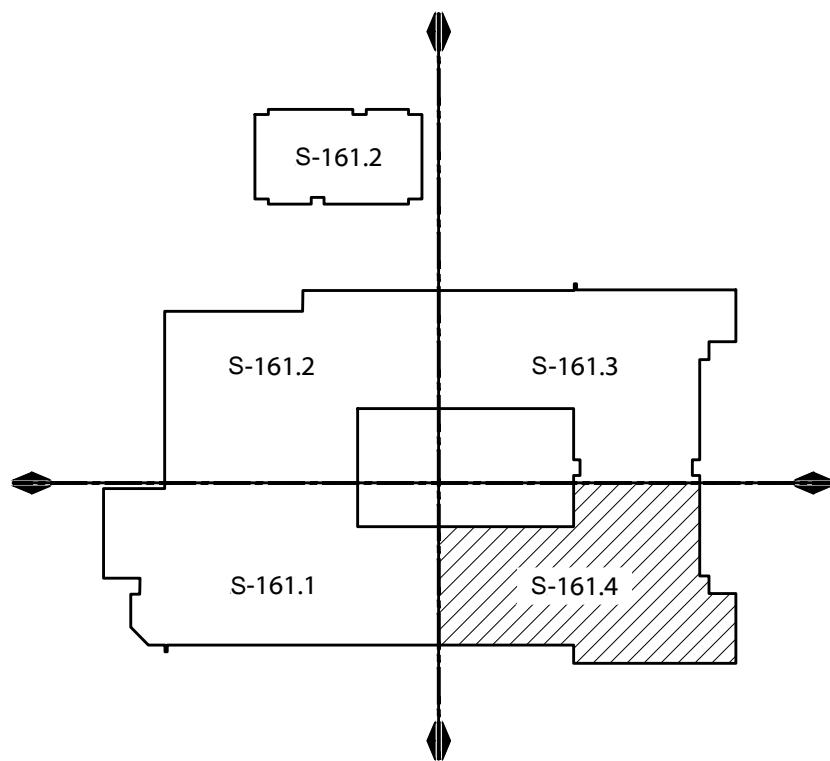
LEGEND:

- PLYWOOD OVERLAY PER KEY NOTE C1
- SHEAR WALL SHTG. S.W. MARK. MIN. LENGTH
- NEW METAL STRAP OVER PLYWOOD DIAPHRAGM, SEE KEY NOTE D
- SIMPSON STRAP CONNECTION, SEE KEY NOTE F
- LINE OF FALL PROTECTION ANCHORS, SEE KEY NOTE K
- NEW FRAMING
- STEEL COLUMN (B)
- WD. COLUMN (B)



KEY PLAN

SCALE: NOT TO SCALE



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MCKINLEY ELEMENTARY SCHOOL  
1500 NW 185TH AVE.  
BEAVERTON, OR 97006



REVISIONS

No.	Description	Date

DRAWN BY: ENS

CHECKED BY: JE

JOB NO: 22082.10

DATE: 04/22/2022

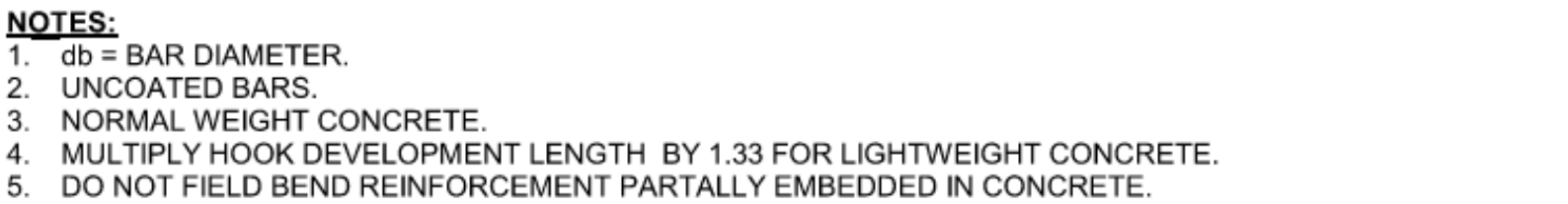
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SHEET TITLE

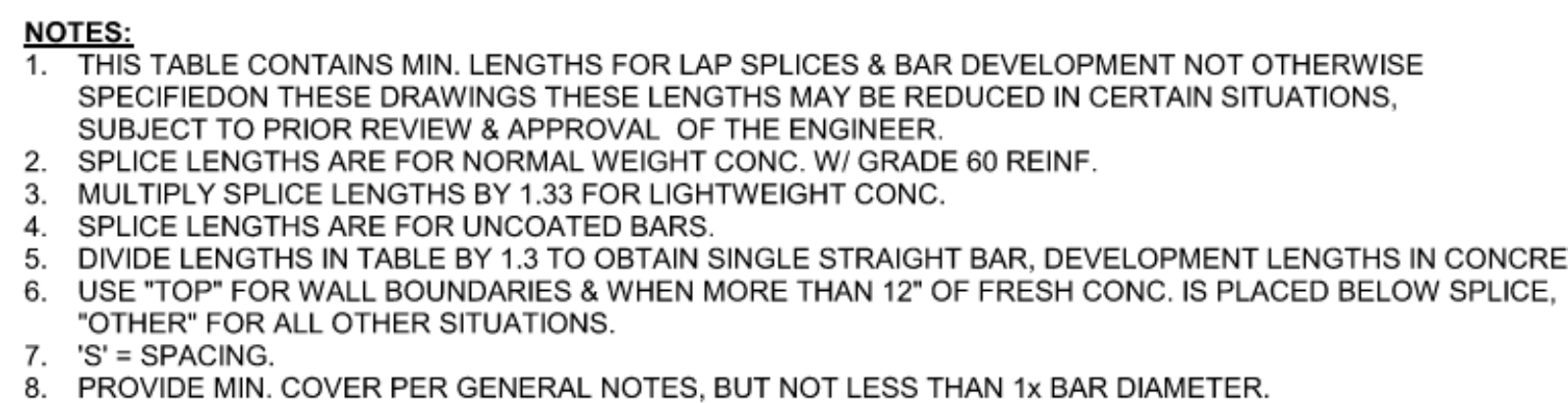
ROOF FRAMING PLAN -  
SECTOR 4

SHEET NO.

S-161.4



N.T.S.



N.T.S



N.T.S.



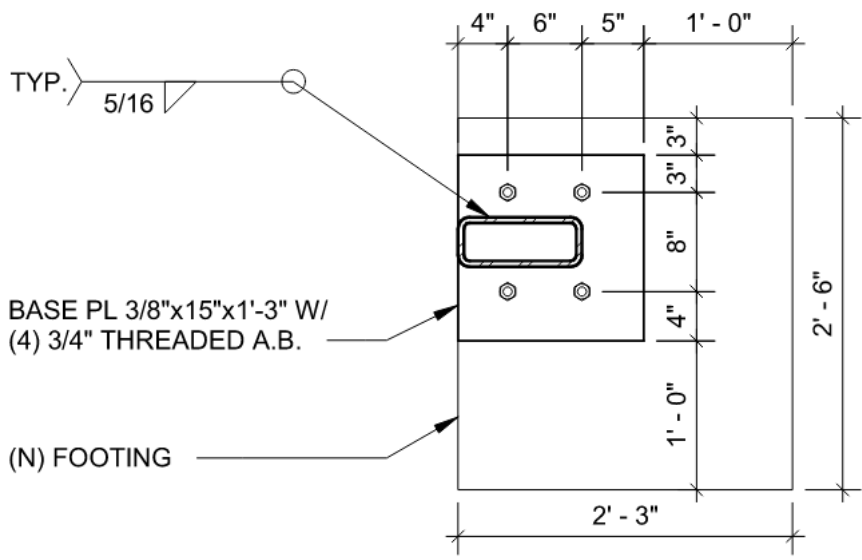
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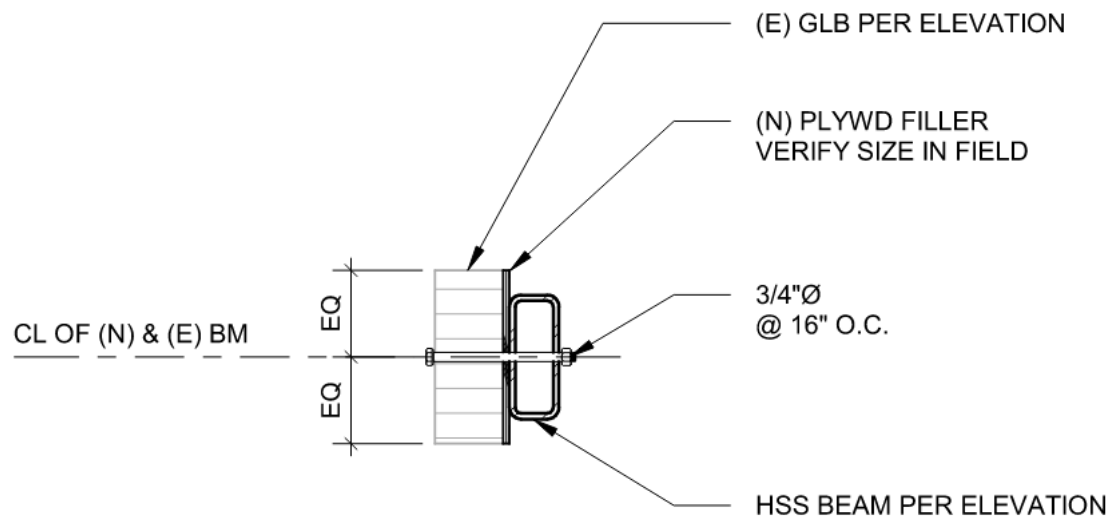
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REVISIONS		
No.	Description	Date

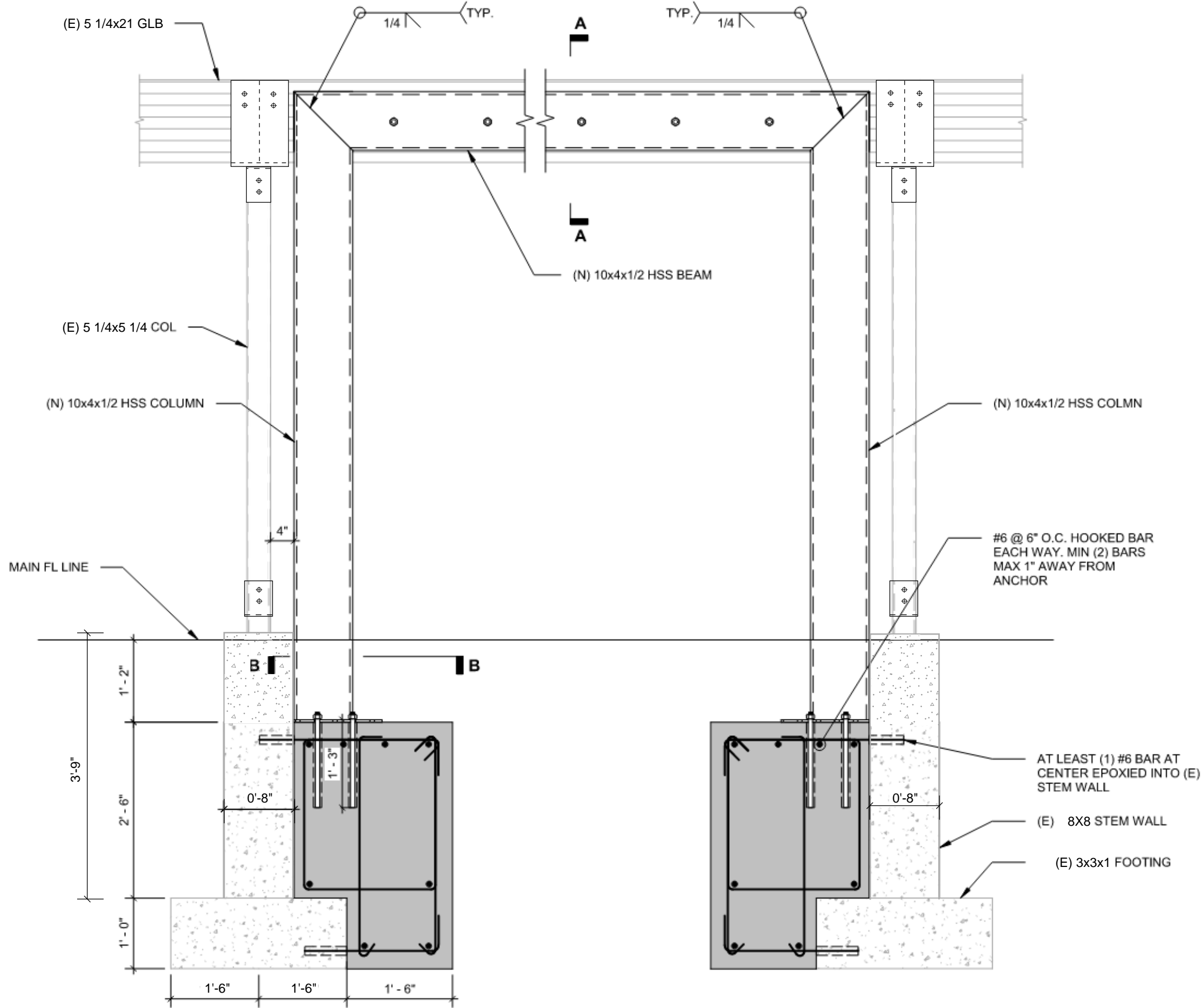
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CHECKED BY: JE
JOB NO: 22082.10
DATE: 04/22/2022
ISSUED FOR: 100% DESIGN DEVELOPMENT
SHEET TITLE
STEEL FRAMING DETAILS
SHEET NO.



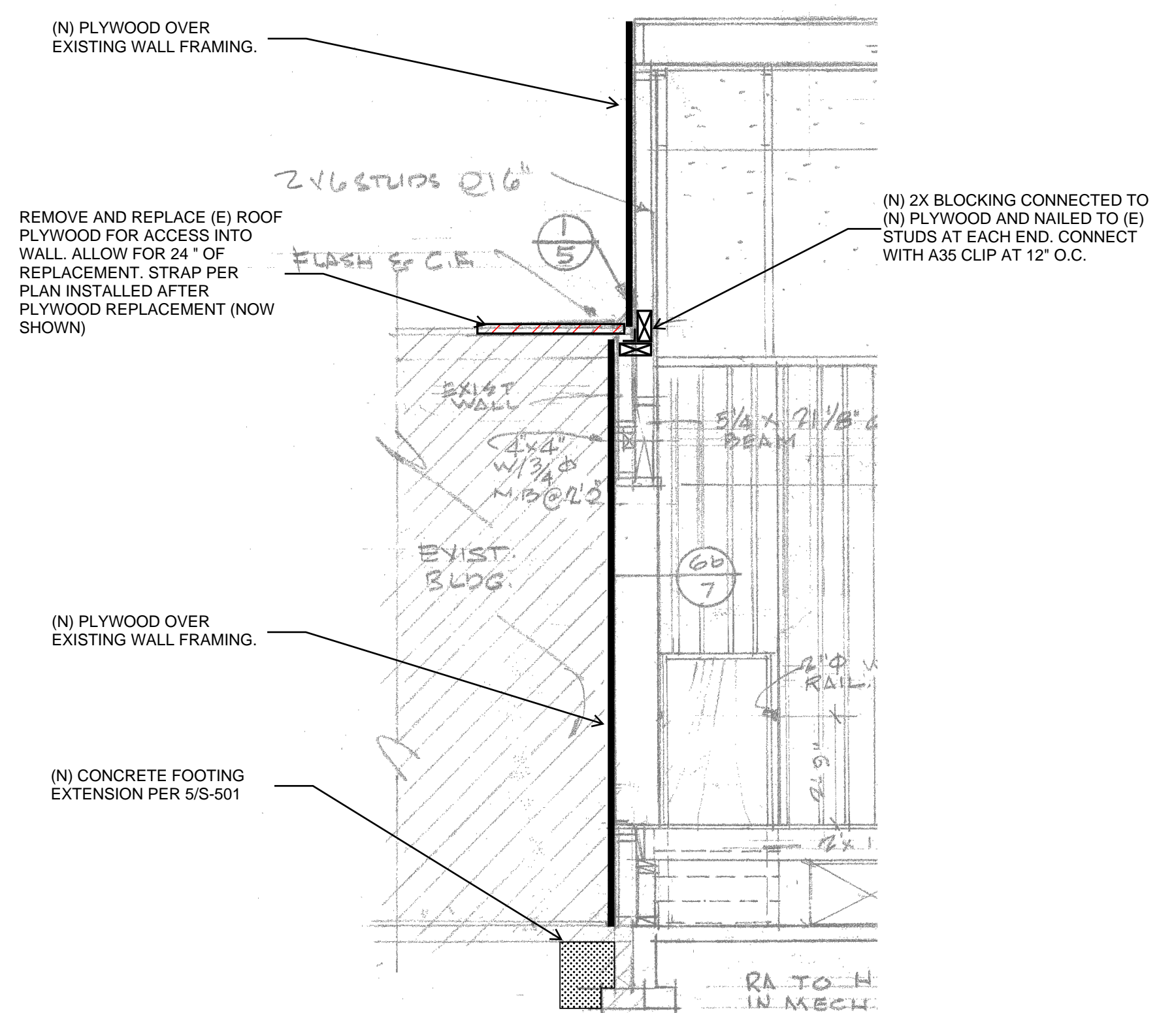
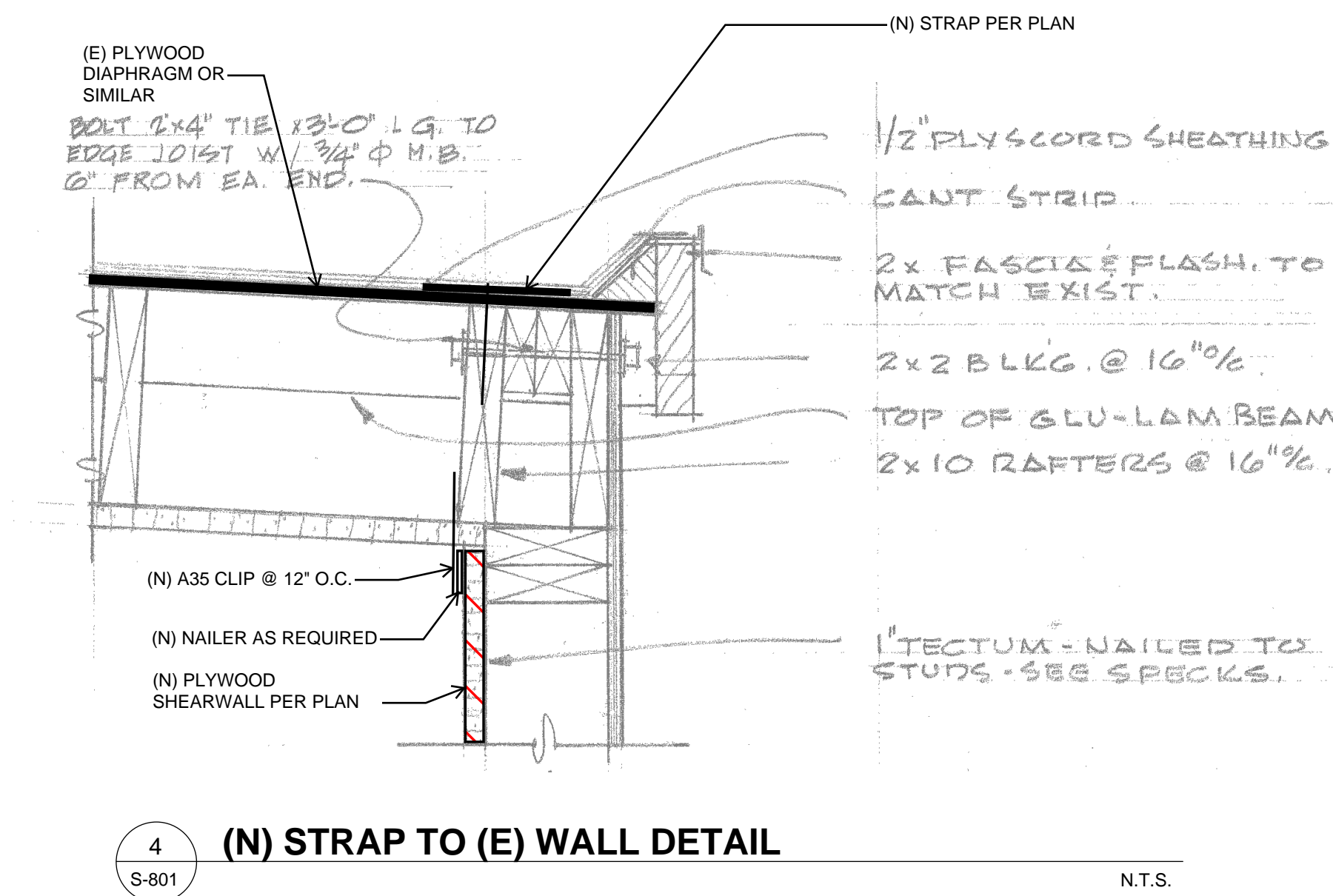
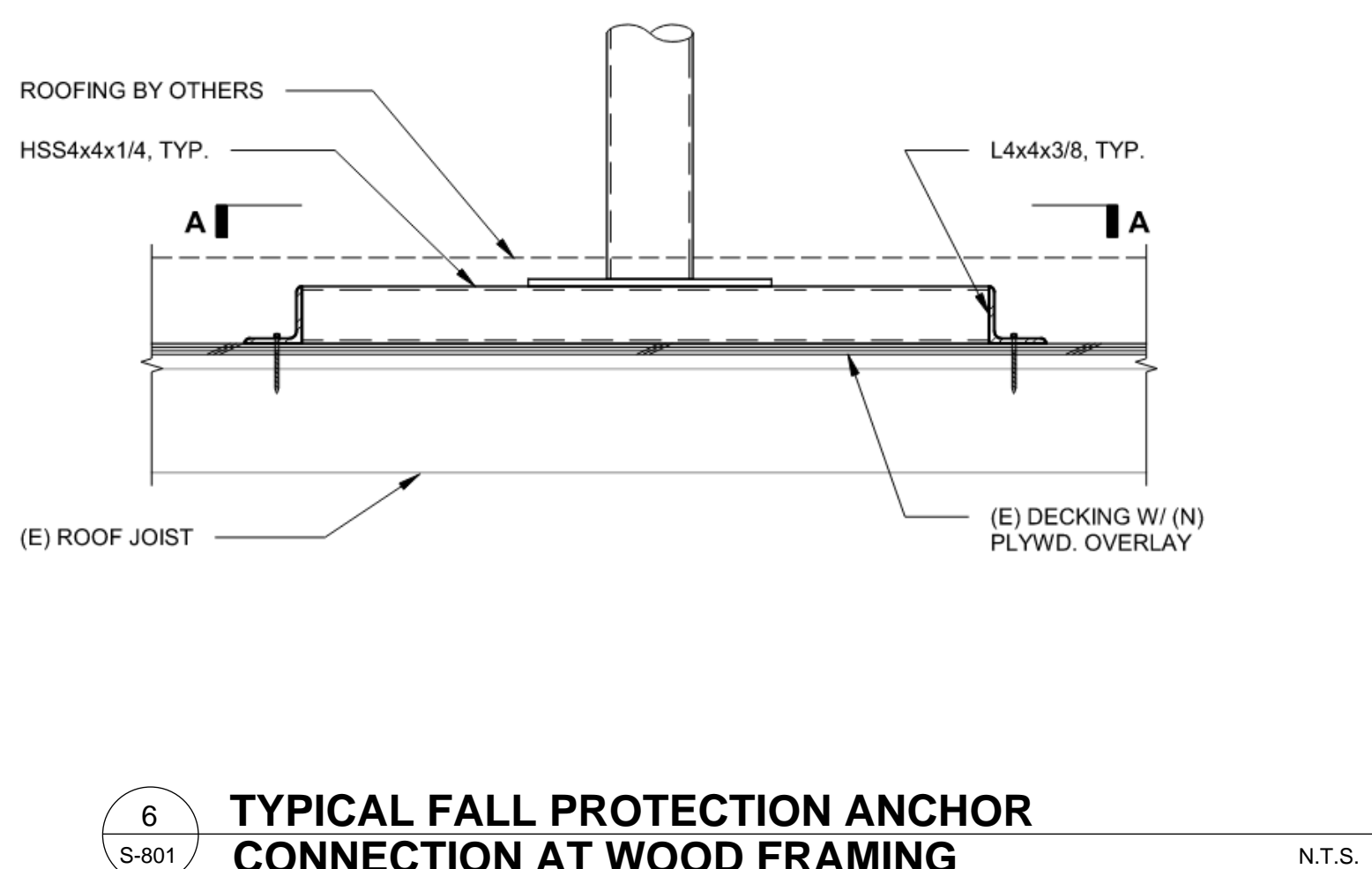
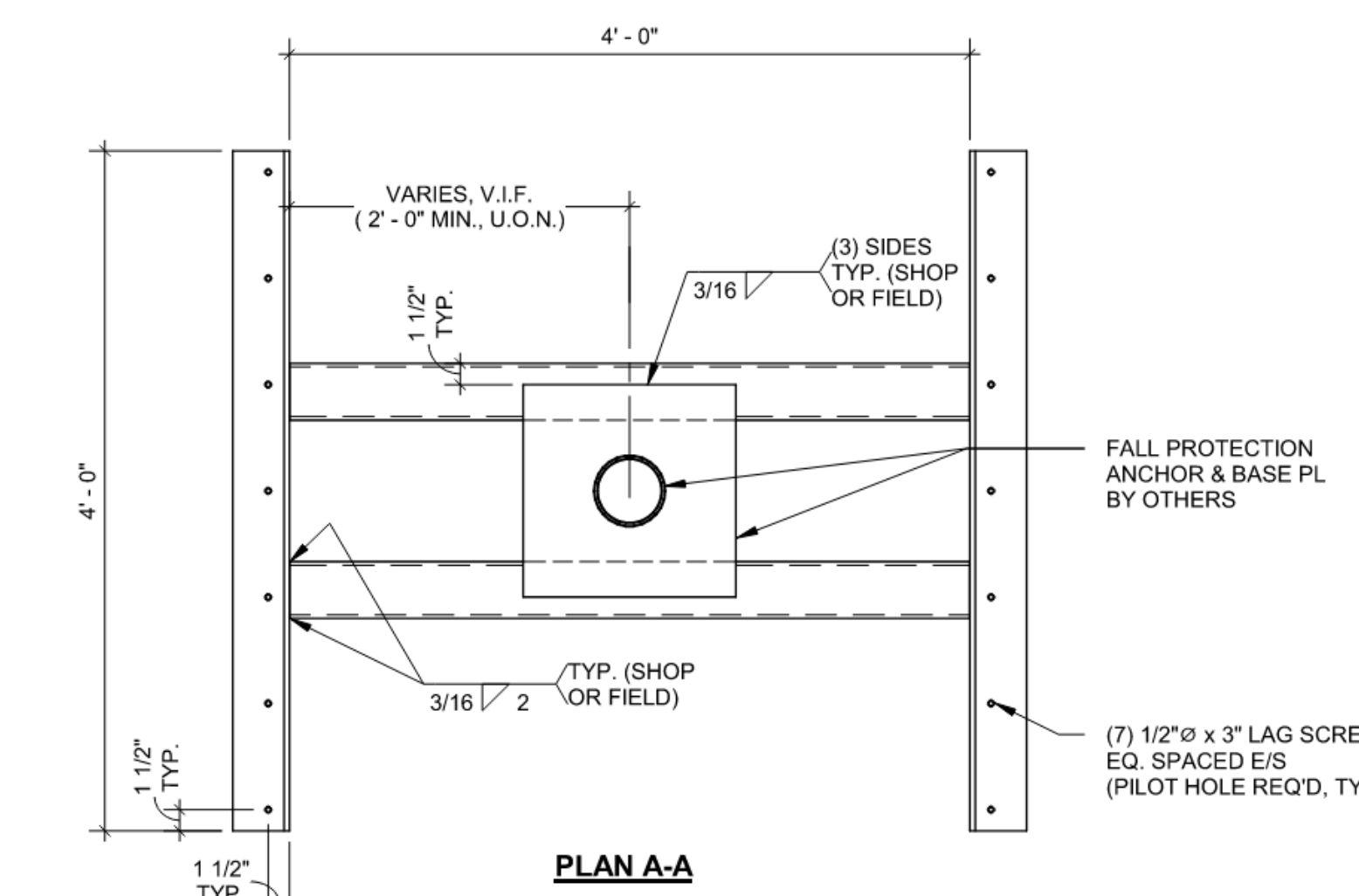
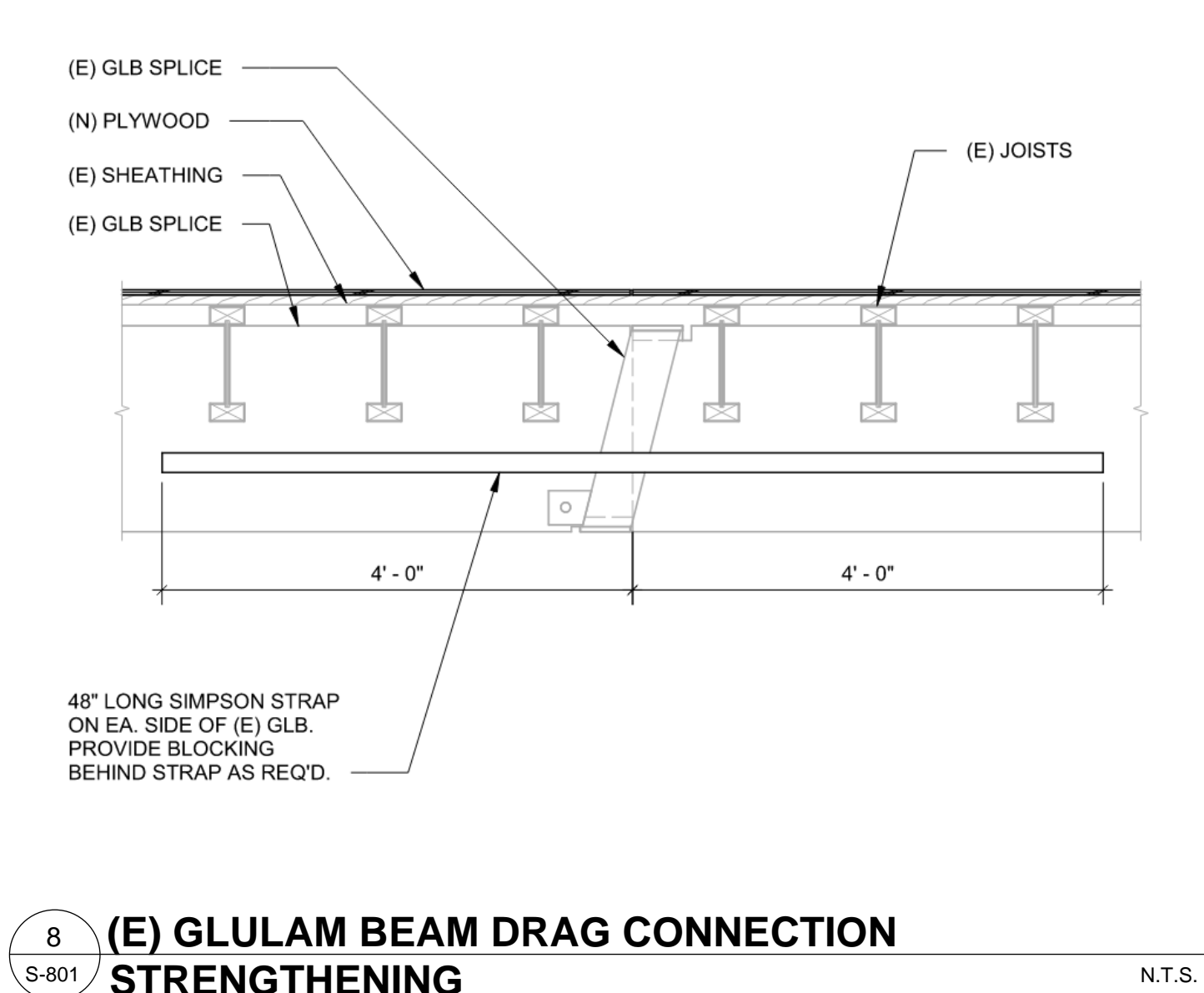
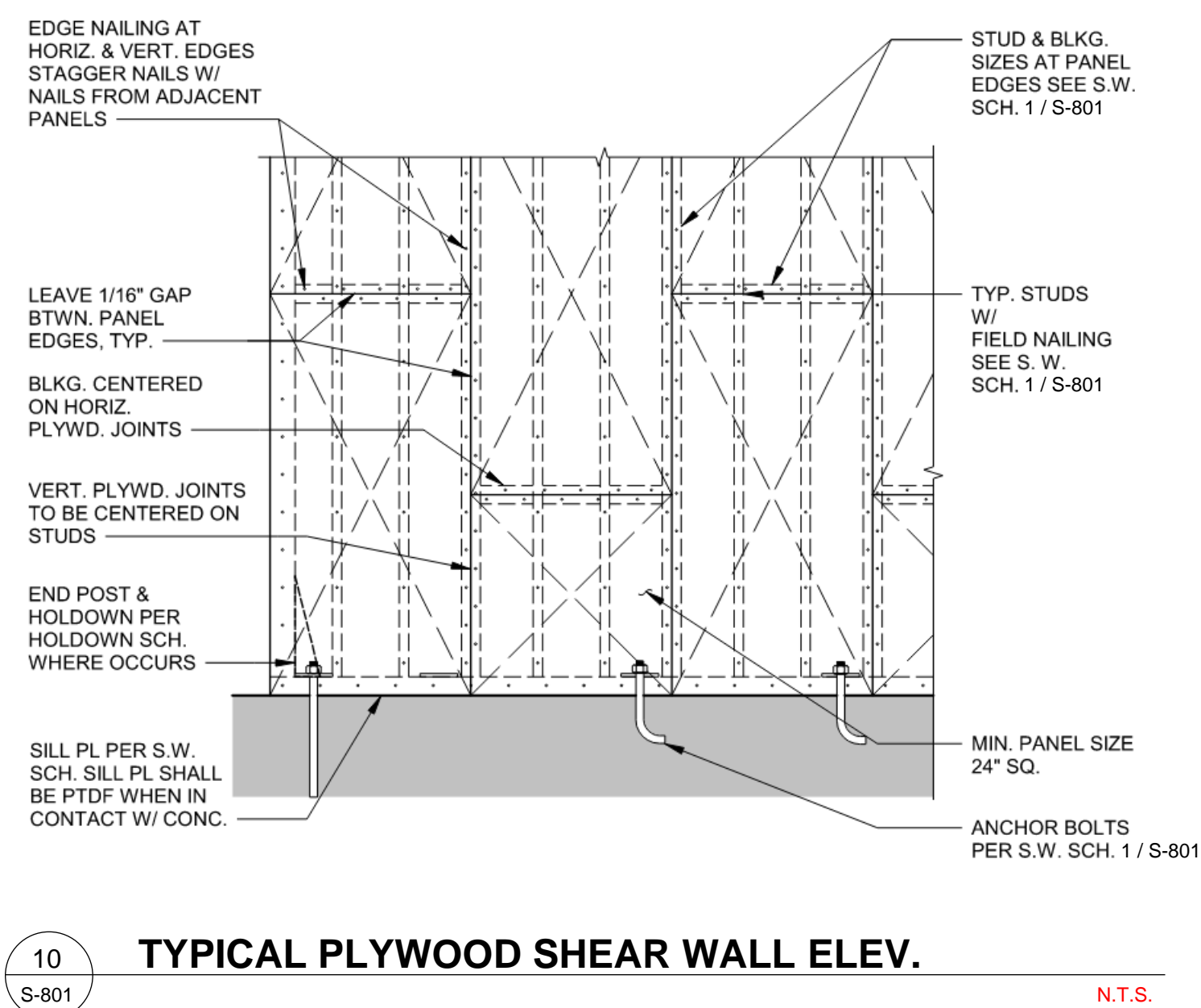
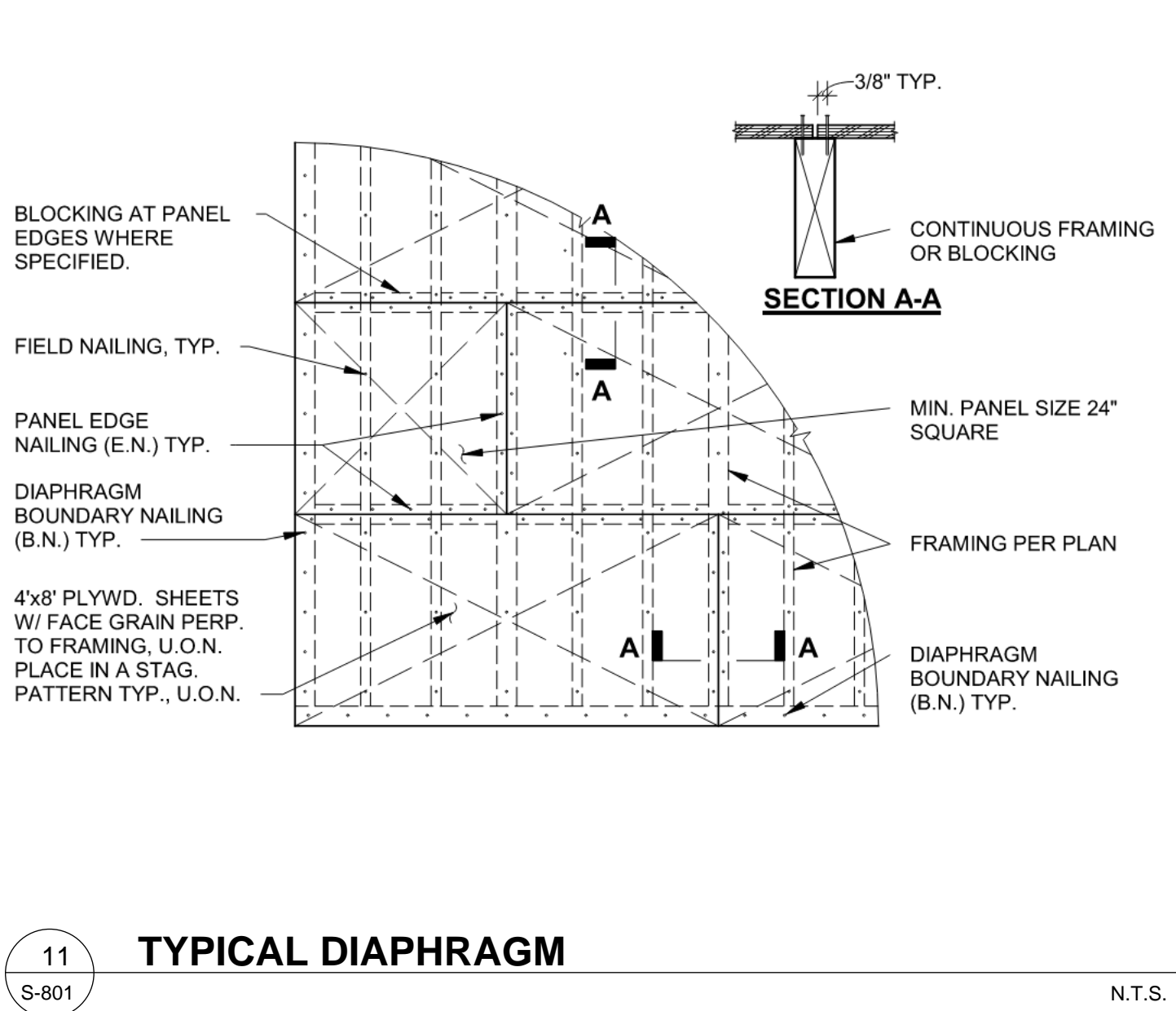
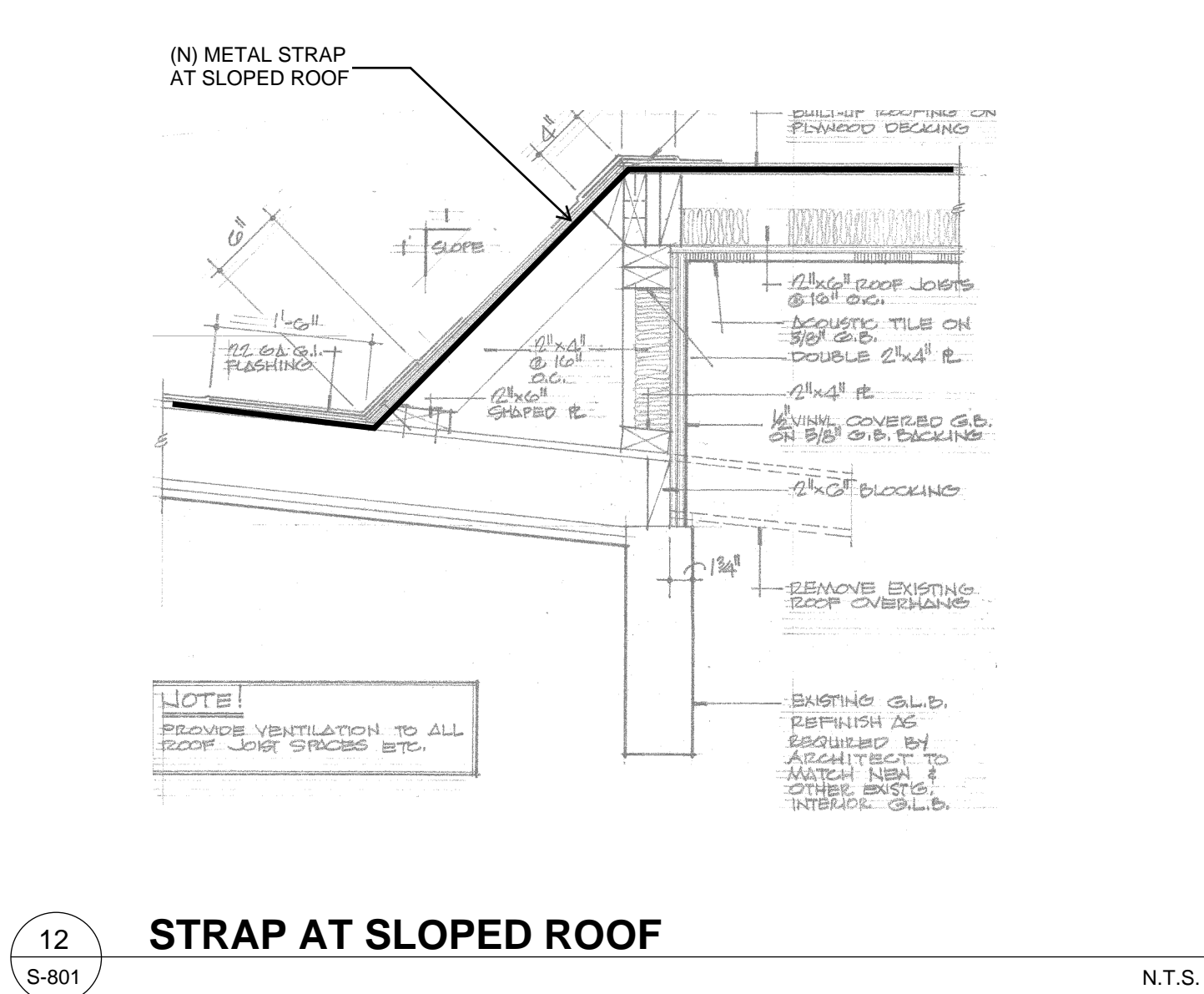
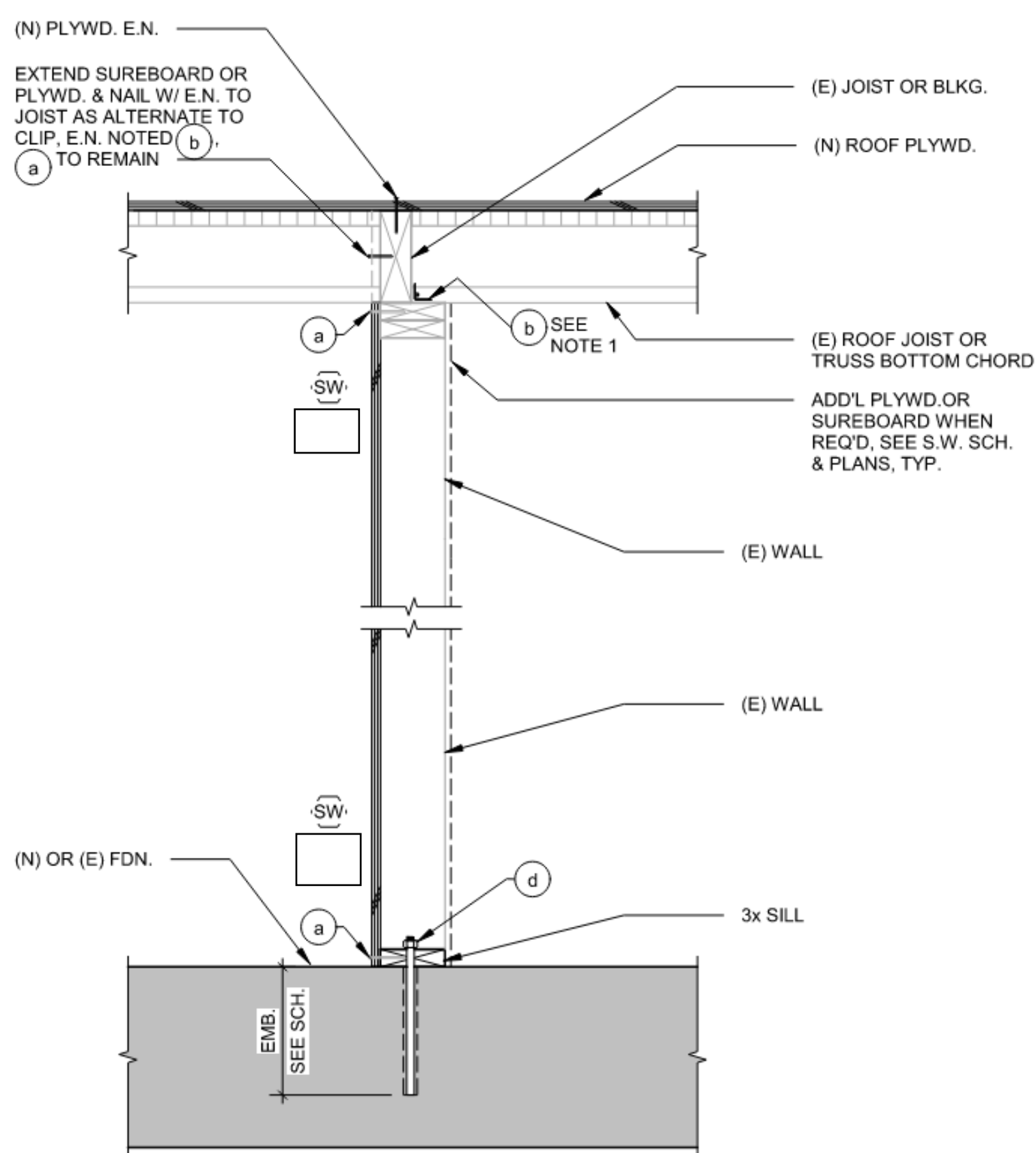
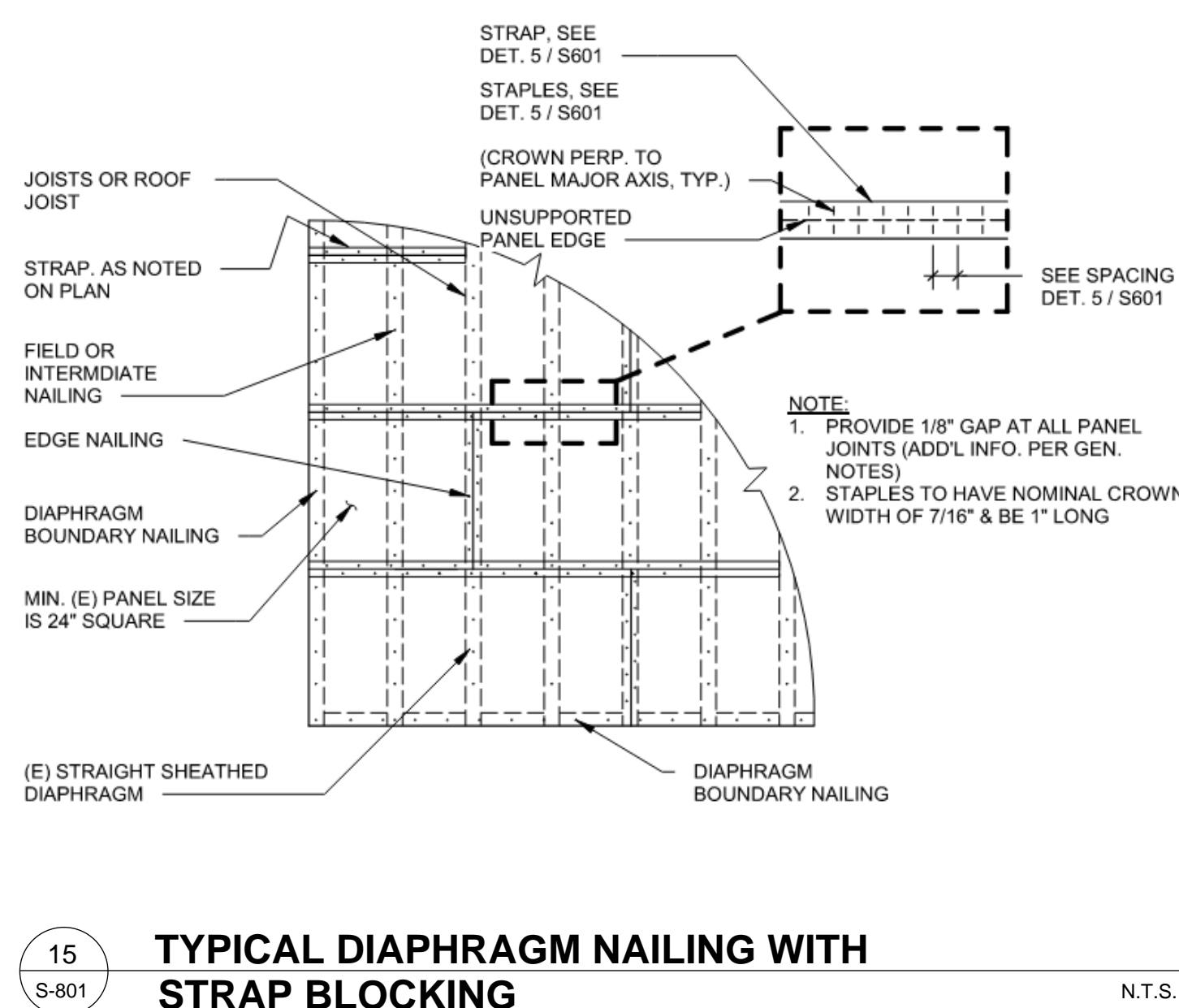
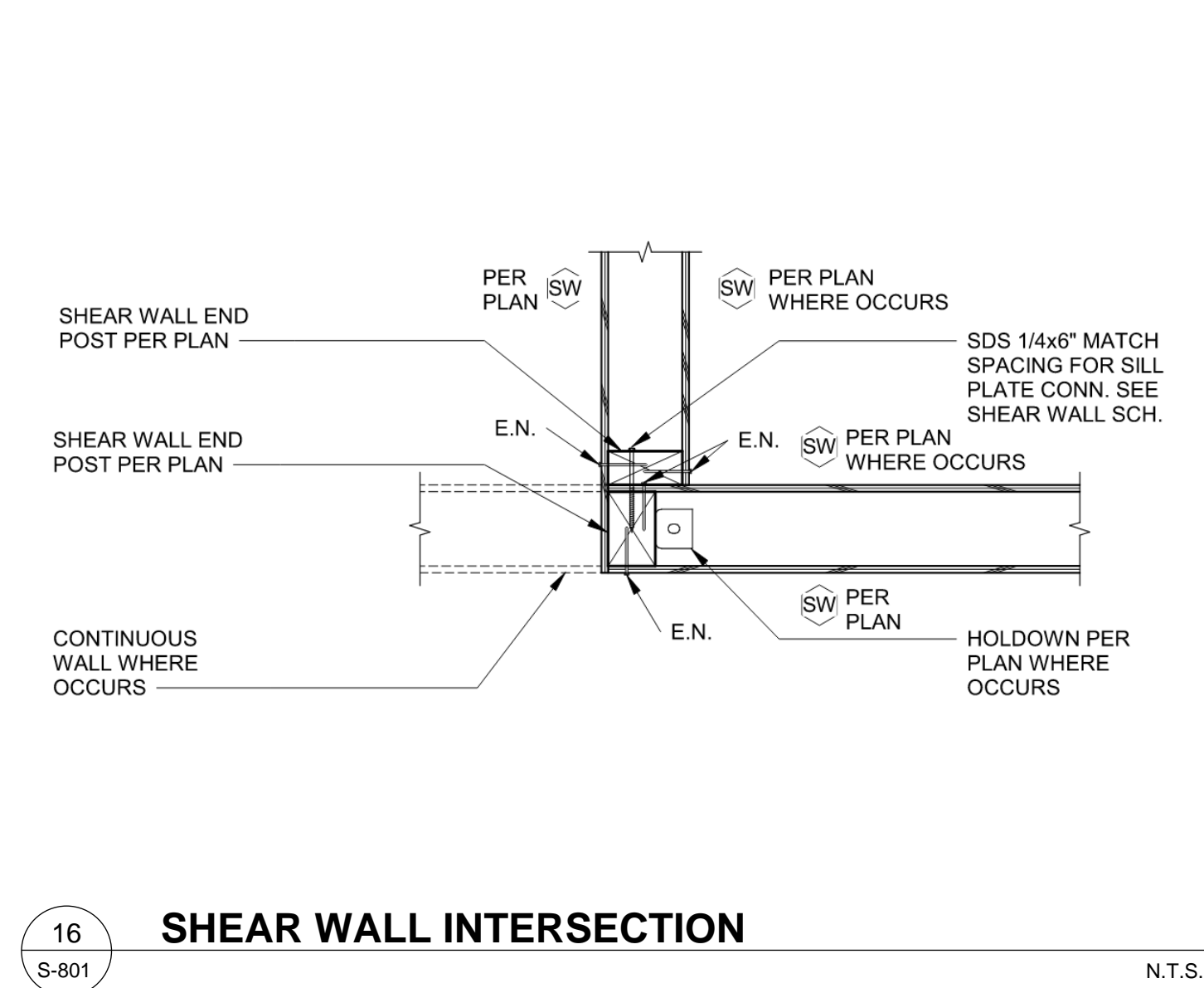
SECTION B-B



SECTION A-A



NOTES:  
1. DIMENSIONS SHALL BE VERIFIED IN FIELD.



MARK	EDGE NAILING (SEE NOTE 2)	CAPACITY (PLF)	RIM CONN. SPACING (SIMP. A36, LPS OR L550)	SILL PL. CONN. SPACING (SIMP. SOWS 0.220 x 6) SEE NOTE 5	FDN. ANCHOR SPACING, SEE NOTE 4
⑥	10d @ 6" O.C.	310	24" O.C.	16" O.C.	48" O.C.
④	10d @ 4" O.C.	460	16" O.C.	12" O.C.	48" O.C.
③	10d @ 3" O.C.	600	12" O.C.	8" O.C.	32" O.C.
②	10d @ 2" O.C.	770	8" O.C.	8" O.C.	24" O.C.

**NOTES:**

1. USE 1/2" CDX PLYWOOD.
2. ACROSS ALL PANEL EDGES, FIELD NAILING IS 12" O.C. ALL NAILS ARE COMMON WIRE NAILS, MAY USE 10d.
3. SHORTS TO 18" MIN. LENGTH W/ FULL HEADS.
4. ALL MEMBERS RECEIVING E.N. INCLUDING SILL PLATE SHALL BE 3x4 A MIN. NAILING SHALL BE STAGGERED 12" ON EMBEDDED SIDE OF E.N. AND 18" ON OTHER SIDE OF E.N. ONE SIDE OF WALL AND NAIL SPACING IS 6" O.C.
5. MEMBERS RECEIVING EDGE NAILING CAN BE 2x4.
6. ALL FDN ANCHOR BOLTS ARE 1/2" Ø BOLTS W/ A 2" HOOK OR ALL THREAD ROD WITH A NUT, WASHER AND NUT ON ONE EMBEDDED SIDE OF E.N. AND 18" ON OTHER SIDE OF E.N. ON TOP OF THE E.N. WITH 1/2" OF THE EDGE OF THE SIMPSON SET-XP EPOXY MAY BE USED, ANCHOR BOLTS SHALL HAVE A MIN. EMBEDMENT OF 7", A MIN. EDGE DISTANCE OF 12" AND SHALL HAVE A 3" Ø, 3 X GA. PLATE W/ASHER AT THE SILL. CONTRACTOR MAY USE 1/2" Ø OR 3/8" X 3 SILL W/ASHER. LARGE W/ASHER SHALL BE 12" W/ 1/2" OF THE EDGE OF THE BOTTOM PLATE (ON THE SIDE) WITH SHEATHING. WHERE WALL IS GREATER THAN 2x4 AND SHEATHING OCCURS ON BOTH SIDES, ANCHOR BOLTS SHALL BE STAGGERED. A & B. W/ASHER SHALL BE HOT DIPPED GALVANIZED.
7. SILL CONNECTION IS FOR WOOD TO WOOD CONNECTION ONLY. TYP. BTWN. FLOORS. WHERE SPACING IS GREATER THAN 6" O.C. RIGID BRACKET SHALL BE USED TO BRACE WALL TO SILL. BRACKET SHALL BE STAGGERED. SDD 144 & MAY BE USED IN LIEU OF SDD'S 9.220 x 4 AT CONTRACTOR'S DISCRETION.

1 SHEAR WALL SCHEDULE

[illegible]

DRAWN BY: ENS

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JOB NO: 22082.10

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DATE: 04/22/2022

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ISSUED FOR: 100% DESIGN DEVELOPMENT

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SHEET TITLE

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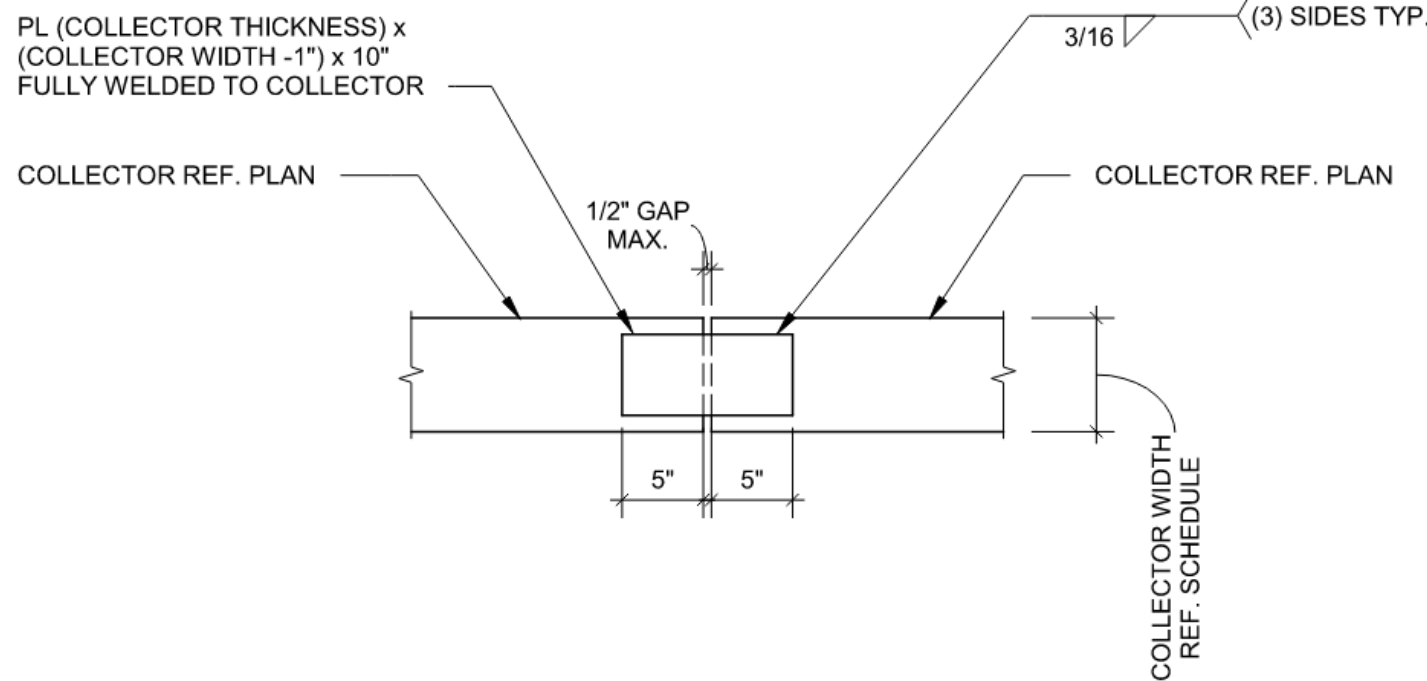
WOOD FRAMING DETAILS

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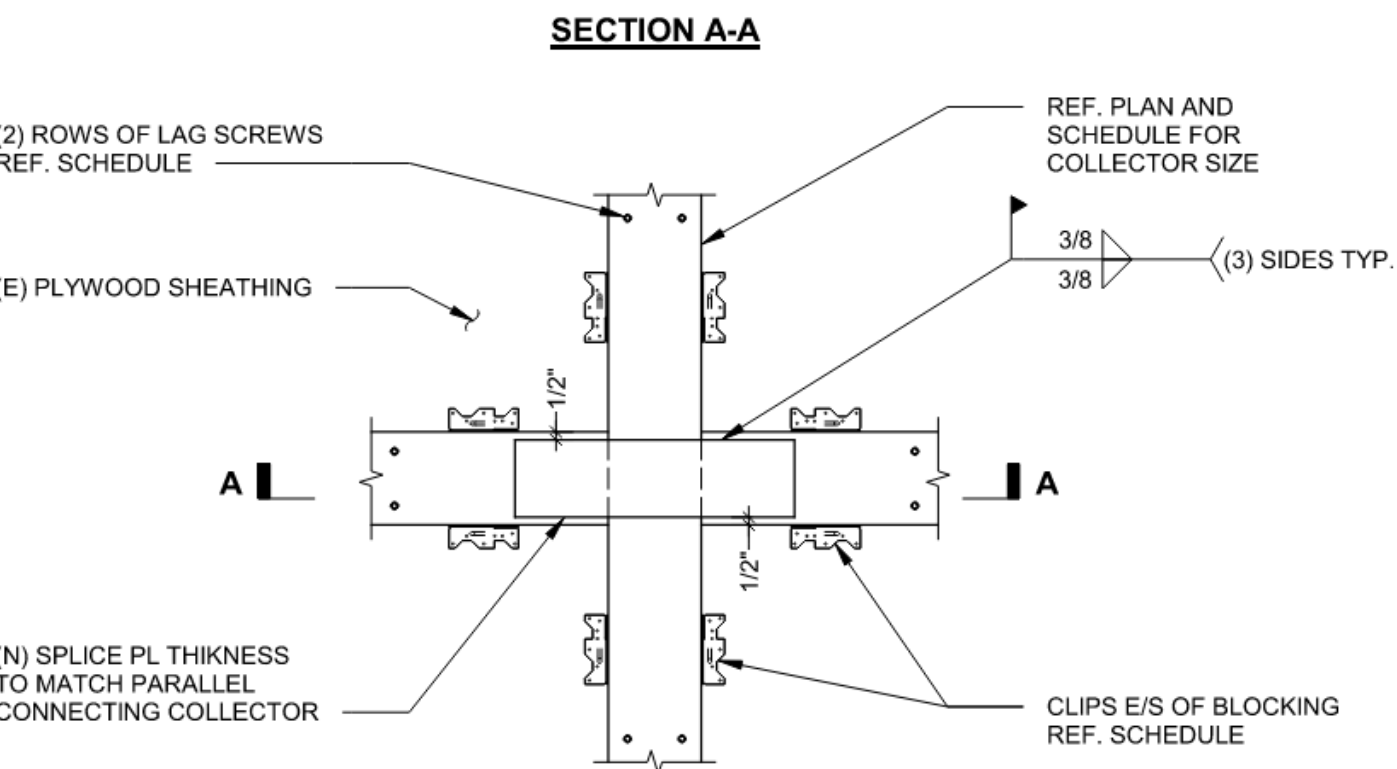
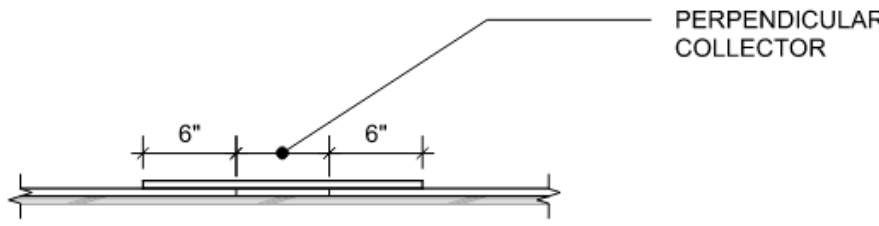
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SHEET NO.



**NOTE:**  
1. CONTRACTOR OPTION TO USE SPLICE PLATE OR FULL PEN WELD.

**4 TYPICAL COLLECTOR SPLICE DETAIL** N.T.S.



**NOTE:**  
1. REF. 2/S-802 FOR SCHEDULE

**3 COLLECTOR SPLICE AT INTERSECTION** N.T.S.

PRELIMINARY -  
NOT FOR CONSTRUCTION

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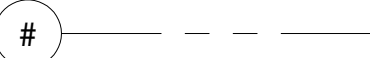
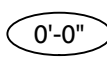



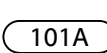
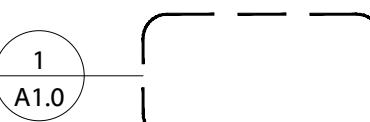



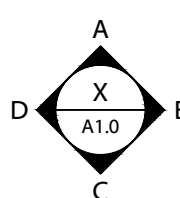
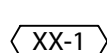
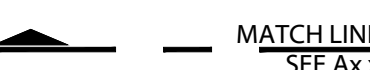

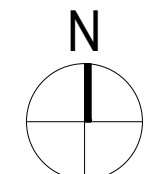

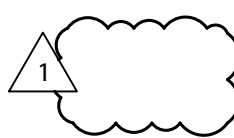
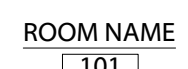



SEISMIC IMPROVEMENTS AND ROOFING REPLACEMENT  
BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL  
1500 NW 185TH AVE.  
BEAVERTON, OR 97006



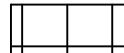
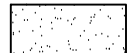



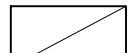
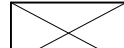


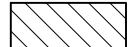

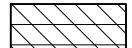

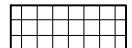
REVISIONS		
No.	Description	Date

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CHECKED BY: JE  
JOB NO: 22082.10  
DATE: 04/22/2022  
ISSUED FOR: 100% DESIGN DEVELOPMENT  
SHEET TITLE  
WOOD FRAMING DETAILS  
SHEET NO.

SYMBOLS:

	BUILDING GRID IDENTIFICATION		CEILING HEIGHT TAG (AFF)
	BUILDING SECTION IDENTIFICATION		DATUM TAG
	DRAWING IDENTIFICATION		DOOR NUMBER
	DETAIL IDENTIFICATION		EXTERIOR FINISH MATERIAL/COLORS
	EXTERIOR ELEVATION IDENTIFICATION		EXTERIOR WALL TYPE
	INTERIOR ELEVATION IDENTIFICATION		FURNITURE TAG
	MATCH LINE IDENTIFICATION		INTERIOR FINISH MATERIAL
	NORTH ARROW		KEY NOTES
	REVISION IDENTIFICATION		ROOM NAME AND NUMBER
	WALL SECTION IDENTIFICATION		WINDOW TYPE
			EQUIPMENT NUMBER

MATERIAL HATCHES:

	ACOUSTICAL CEILING TILE		GROUT
	BATT INSULATION		GYPSUM BOARD IN SECTION
	CONCRETE IN SECTION		INTERMITTENT BLOCKING
	CONTINUOUS LUMBER		MASONRY IN SECTION
	EARTH		METAL IN SECTION
	FINISHED LUMBER		PLYWOOD IN SECTION
	GRAVEL		RIGID INSULATION IN SECTION

**ABBREVIATIONS:**

AD	ACOUSTICAL	GA	GAUGE	R	RISER
ACT	ACOUSTICAL CEILING TILE	GALV	GALVANIZED	RAD	RADIUS
AD	AREA DRAIN	GB	GRAB BAR	RAF	REFURBISHED ASPHALT FLASHING
ALT	ABOVE FINISHED FLOOR	GL	GLASS GLAZING	RF	RESINOUS FLOORING
AL	ALTERNATE	GW	GYPSUM WALL BOARD	RFG	REFRIGERATOR
ALUM	ALUMINUM			RB	RUBBER BASE
ANOD	ANODIZED	HB	HOSE BIB	RD	ROOF DRAIN
ARCH	ARCHITECTURAL	HC	HOLLOW CORE	RO/D	ROOF DRAIN/OVERFLOW DRAIN
AWP	ACOUSTICAL WALL PANEL	HDWR	HARDWARE	REF	REFERENCE
		HM	HOLLOW METAL	REINF	REINFORCE(D)
BD	BOARD	HORIZ	HORIZONTAL	REQD	REQUIRED
BD	BETWEEN	HSS	HOLLOW STRUCTURAL STEEL TUBE	RESIL	RESILIENT
BLKG	BLOCKING	HT	HEIGHT	RM	ROOM
BO	BOTTOM OF			RO	ROUGH OPENING
BOT/BTM	BOTTOM	ID	INSIDE DIAMETER	RT	RUBBER TILE
		INSUL	INSULATION	SA	SELF-ADHESIVE
		INT	INTERIOR		
CFCI	CONTRACTOR FURNISHED			SC	SEALED CONCRETE
	CONTRACTOR INSTALLATION	JAN	JANITOR	SCD	SEAL COVER DISPENSER
CG	CORNER GUARD	JT	JOINT		
CH	COAT HOOK			SCHED	SCHEDULE
CI	CONTINUOUS INSULATION	KD	KNOCK DOWN FRAME	SCS	SHOWER COMPARTMENT SEAT
CIP	CAST IN PLACE CONCRETE			SD	SOAP DISPENSER
CL	CONTROL JOINT	L	LINOLEUM	SECT	SECTION
CL	CENTERLINE	LAM	LAMINATES	SHT	SHEET
CLG	CEILING	LAV	LAVATORY	SHTHG	SHEATHING
CLR	CLEAR	LT	LIGHT	SIM	SIMILAR
CMU	CONCRETE MASONRY UNIT			SN	STAIN
CONC	CONCRETE	M	MIRROR	SND	SANITARY NAPKIN DISPENSER
COL	COLUMN	MANUF	MANUFACTURER	SNR	SANITARY NAPKIN RECEPTACLE
CONT	CONTINUOUS	MAX	MAXIMUM	SR	SHOWER ROD
CPT	CERAMIC TILE	MB	MARKER BOARD	SQ	SQUARE
CT		MCM	METAL COMPPOSITE MATERIAL	SS	SOLID SURFACING MATERIAL
		MCP	METAL CEILING PANEL	SS1	STAINLESS STEEL
D	DRYER	MDO	MEDIUM DENSITY OVERLAY	SSG	STRUCTURAL SILICONE GLAZING
DBL	DOUBLE	ME	MATCH EXISTING	STD	STANDARD
DBRON	DARK BRONZE	MFR	MANUFACTURE	ST	STONE
DEMO	DEMOLISHED	MIN	MINIMUM, MINUTE	STL	STEEL
DET	DETAIL	MISC	MISCELLANEOUS	STOR	STORAGE
DET	DRINKING FOUNTAIN	MO	MASONRY OPENING	STRUC	STRUCTURAL
DIAM	DIAMETER	MP	METAL PANEL	SUSP	SUSPENDED
DIA	DIMENSION	MR	MOP RACK	SV	SHEET VINYL
DIM PT	DIMENSION POINT	MRP	METAL ROOF PANEL	SVB	SHEET VINYL BASE
DN	DISTANCE	MND	MOUNTED	SYM	SYMMETRICAL
DN	DRAIN	MTL	METAL		
DO	DOOR OPENING	MUL	MULLION		
DS	DOWNSPOUT	MWP	METAL WALL PANEL		
DWG	DRAWINGS			T	TREAD
		NTS	NOT TO SCALE	TB	TACK BOARD
(E)	EXIST EXISTING	(N)	NEW	TBF	TACK BOARD FABRIC
EA	EACH	NIC	NOT IN CONTRACT	T/G	TONGUE AND GROOVE
EJ	EXPANSION JOINT	NO./#	NUMBER	THK	THICK
ELECT	ELECTRICAL			THRU	THROUGH
EL/ELEV	ELEVATION			T.O.	TOP OF
EP	EPOXY PAINT	OA	OVERALL	TOB	TOP OF BEAM/BLOCK/BLOCK
EQ	EQUIP	OC	ON CENTER	TOD	TOP OF CURB
EQUIP	EQUIPMENT	OD	OUTSIDE DIAMETER	TOD	TOP OF DECK
ES	EACH SIDE	OFCI	OWNER FURNISHED	TOP	TOP OF PARAPET
EXIT	EXIT	OFCI	CONTRACTOR INSTALLED	TOW	TOP OF WALL
EXIST	EXISTING	OFOI	OWNER FURNISHED	TPD	TOILET PAPER DISPENSER
EXP	EXPANSION	OS	OWNER INSTALLED	TR	TRANSPARENT FINISH
EXT	EXTERIOR	OPNG	OPENING	TS	TUBE STEEL
		OPP	OPPOSITE HAND	TSC	TOILET SEAT COVER DISPENSER
				TYN	TYPICAL
(F)	FUTURE	P	PAINTED	U	UNLESS OTHERWISE NOTED
FAA	FIRE ALARM ANNUNCIATOR	PAF	POWER ACTUATED FASTENER		
FACP	FIRE ALARM CONTROL PANEL	PL/PLAM	PLASTIC LAMINATE	VB	VINYL BASE
FAC	FACTORY FINISH	PLAS	PLASTIC	VBX	VIEW BOX
FAC	FLOOR DRAIN	PNL	PANEL	VCT	VINYL COMPOSITE TILE
FEX	FIRE EXTINGUISHER	PR	PAIR	VER	VERIFY
FEC	FIRE EXTINGUISHER CABINET	PS	PROJECTOR SCREEN	VERT	VERTICAL
FIN	FINISHED FLOOR	PT	PRESSURE TREATED	VERIF	VERIFY IN FIELD
FINISH	FINISH	PTD	PAPER TOWEL DISPENSER	VP	VENEER PLASTER
FLASH	FLASHING	PTDR	PAPER TOWEL DISPENSER		
FLR	FLOOR		& RECEPTACLE		
FBR	FACE OF BRICK/BLOCK	PLYWD	PLYWOOD	W	WITH
FCC	FACE OF CONCRETE			W/O	WITHOUT
FDF	FACE OF FINISH	Q	QUARRY TILE	WB	WEATHER BARRIER
FOS	FACE OF STUDS OR STEEL			WC	WINDOW COVERING
FRT	FIRE RETARDANT TREATED			WD	WOOD
FT	FOOT, FEET			WG	WALL GUARD
FTG	FOOTING			WM	WALK-OFF MAT
FUR	FURRING			WP	WORK POINT
FV	FIELD VERIFY			WRPF	WATERPROOF
				WSV	WELDED SHEET VINYL
				WSVB	WELDED SHEET VINYL BASE
				WWF	WELDED WIRE FABRIC

[illegible]

DRAWN BY: SES

CHECKED BY: SEE

JOB NO: 22-002 BSD MKES

DATE: 04/22/2022

ISSUED FOR: 100% DESIGN DEVELOPMENT

SHEET TITLE

ABBREVIATIONS, SYMBOLS &

MATERIAL HATCHES

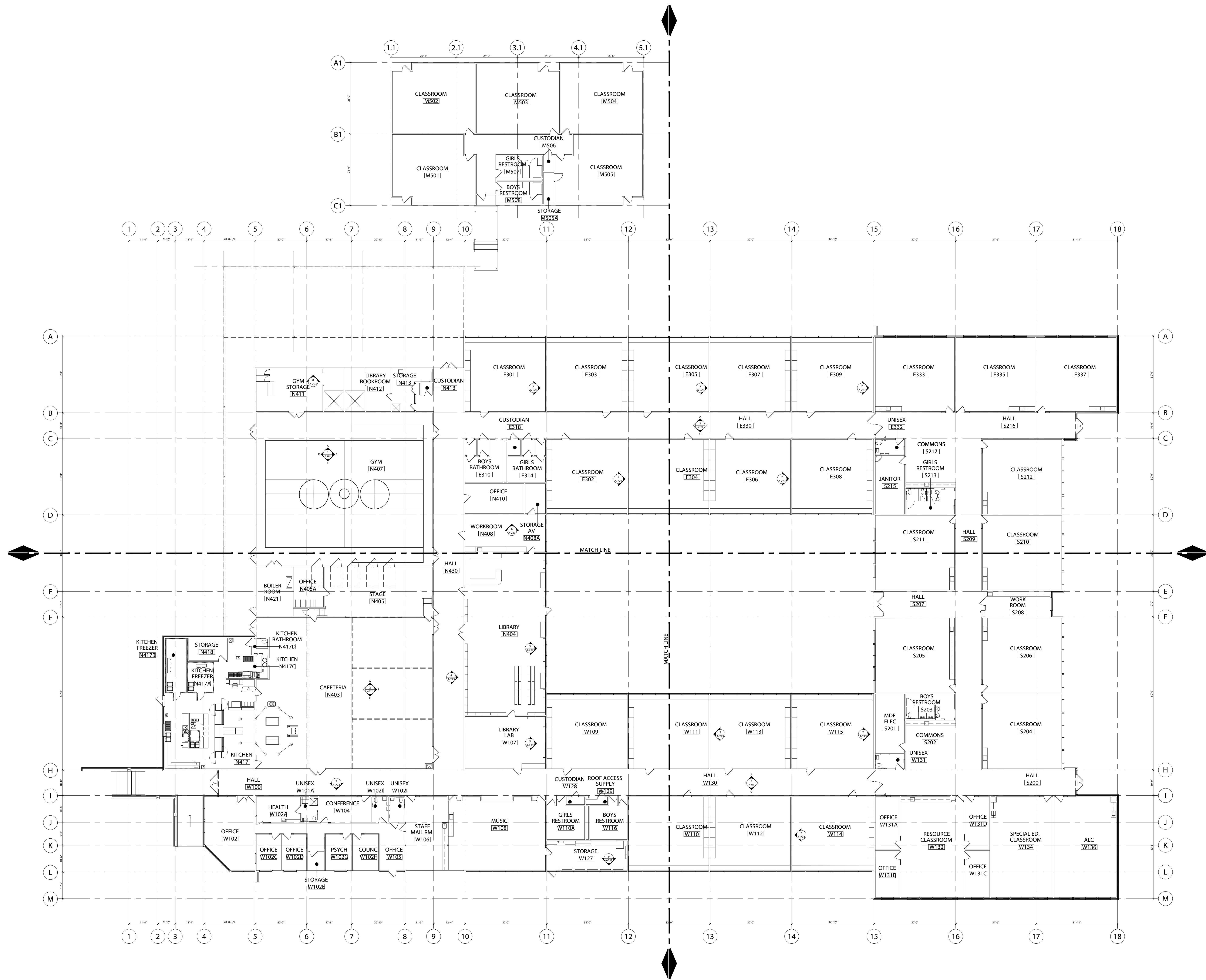
SEISMIC IMPROVEMENTS AND ROOFING REPLACEMENT  
BEAVERTON SCHOOL DISTRICT  
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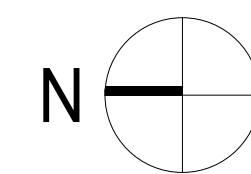
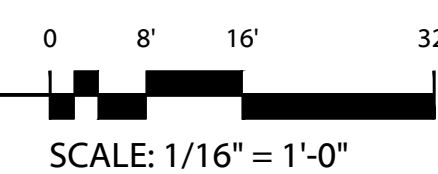
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JOB NO: 22-002 BSD Mikes  
DATE: 04/22/2022  
ISSUED FOR: 100% DESIGN DEVELOPMENT  
SHEET TITLE  
OVERALL FLOOR PLAN  
SHEET NO.

A-121



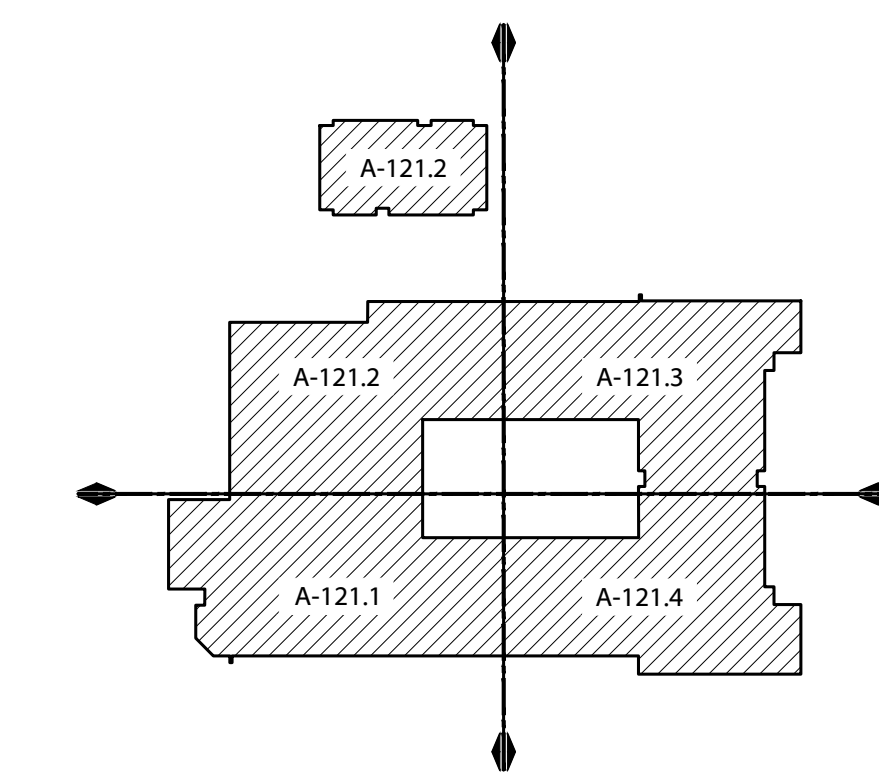
1 OVERALL FLOOR PLAN - EXISTING

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



KEY PLAN

SCALE: NOT TO SCALE



EXISTING FLOOR PLAN KEY NOTES

NOT ALL NOTES MAY BE USED.

NON-STRUCTURAL SCOPE  
GENERAL NOTES (TYPICAL ALL SHEETS): WORK TO OCCUR ON SAME SIDE OF WALL AS TAG UNLESS NOTED OTHERWISE. ALL EXPOSED EXTERIOR OR SUB-GRADE STEEL TO BE HOT-DIP GALVANIZED.

- (1A) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD, RUBBER BASE AND 12" STRIP OF CARPET.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- PROTECT EXISTING EXPOSED DUCT.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND CARPET WHERE REMOVED TO MATCH EXISTING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL (2) 4' TACK BOARDS AND (2) 8' WHITE BOARDS, TYP. IN CLASSROOMS AND WHERE NOTED.  
- AT CLASSROOMS, APPROX. 4' OF SHELVES AND A STEAM RADIATOR UNDER WINDOW TO BE SALVAGED AND REINSTALLED FOR WORK TO OCCUR (TYP.).  
- INSTALL NEW WOOD.

- (1A\*) - SAME AS ABOVE BUT INCLUDES SALVAGING AND REINSTALLING BOOKSHELVES (APPROX 8'-0" AT EACH LOCATION).

- (1A\*) - SAME AS ABOVE BUT INCLUDES REMOVE, SALVAGE AND REINSTALL STEAM RADIATOR (APPROX 8'-0").

- (1B) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD OR GYPSUM WALL BOARD SURFACE, RUBBER BASE AND 12" STRIP OF VINYL TILE.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND VINYL FLOOR TILE WHERE REMOVED TO MATCH EXISTING.  
- INSTALL HARDWOOD TRIM, PAINTED TO MATCH ADJACENT WALL AT EACH SIDE OF NEW SHEAR WALL WORK.  
- MODIFY DOOR FRAMES TO ACCOMMODATE NEW WALL WIDTH FROM ADDITIONAL SHEATHING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL TACK RAILS AND TACKBOARDS WHERE OCCURRING.

- (1B\*) - SAME AS ABOVE BUT INCLUDES REMOVE, SALVAGE AND REINSTALL STEAM RADIATOR (APPROX 8'-0").

- (1B\*) - SAME AS 1B BUT INCLUDES SALVAGE AND REINSTALL (3) 8'-0" TACKBOARDS.

- (2A) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH PLASTER WALL AND BEAD BOARD VENEER, APPROXIMATELY 16'-0" HIGH.  
- DEMOLISH 12" STRIP OF TECTUM AT CEILING AND ENTIRE WALL PANEL ABOVE BEAD BOARD, APPROXIMATELY 4'-0" HIGH.  
- REMOVE AND SALVAGE BASKETBALL HOOP AND SUPPORTS (IS TOTAL IN GYM).  
- DEMOLISH VINYL FLOOR TILE, AND RUBBER BASE BOARD WHERE NECESSARY FOR STRUCTURAL WORK BELOW FLOOR.  
- SAWCUT AND DEMOLISH CONCRETE SLAB AND EXCAVATE AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS, SLAB ON GRADE AND FOUNDATION STRENGTHENING PER STRUCTURAL.  
- INSTALL NEW GYPSUM BOARD WITH PAINTED WOOD BEAD-BOARD VENEER.  
- INSTALL NEW TECTUM WALL PANEL BETWEEN CEILING AND NEW BEAD BOARD VENEER AND WHERE REMOVED FROM CEILING.  
- INSTALL NEW VINYL FLOOR TILE AND RUBBER BASE BOARD TO MATCH EXISTING.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL CLIMBING WALL AND PROJECTOR SCREEN WHERE OCCURRING.

- (2B) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD OR GYPSUM WALL BOARD SURFACE, RUBBER BASE AND 24" STRIP OF VINYL TILE.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- SAWCUT AND DEMOLISH CONCRETE SLAB AND EXCAVATE AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS, SLAB ON GRADE AND FOUNDATION STRENGTHENING PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND VINYL FLOOR TILE WHERE REMOVED TO MATCH EXISTING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.

- (2B\*) - SAME AS ABOVE BUT NOTE: WORK AT THIS LOCATION TO BE PERFORMED IN CONJUNCTION WITH SCOPE ABOVE THE ROOF LINE. SEE ITEM 3.

- (3) - DEMOLISH EXTERIOR VERTICAL WOOD SIDING, SHEATHING AND BATT INSULATION AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW BATT INSULATION TO MATCH EXISTING ADJACENT, EXTERIOR VERTICAL WOOD SIDING TO MATCH EXISTING ADJACENT AND NEW BASE FLASHING.  
- PAINT TO MATCH EXISTING ADJACENT.

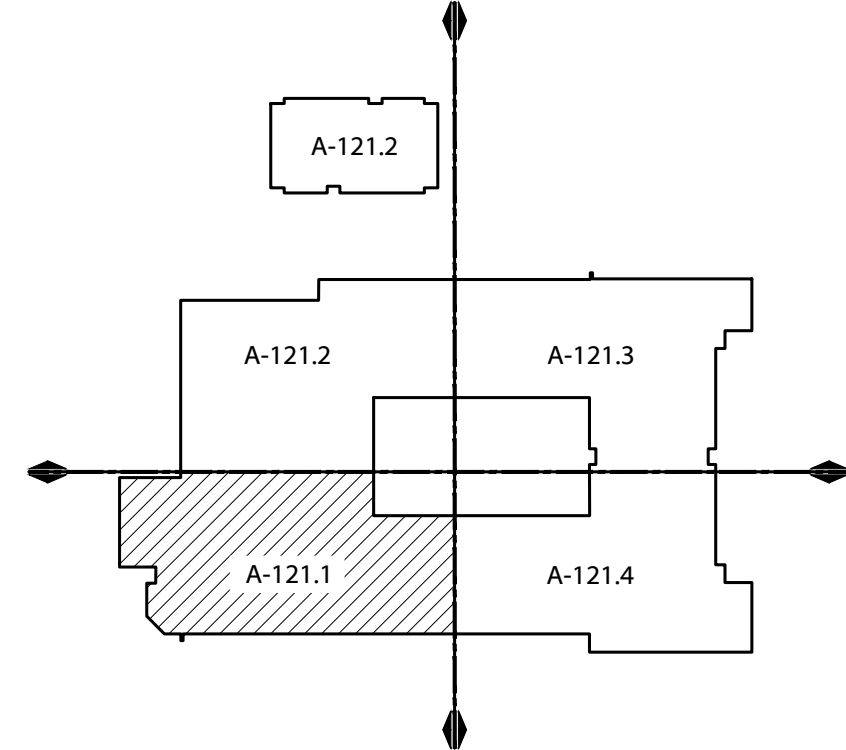
- (3A) SAME AS ABOVE BUT INCLUDES:  
- DEMOLISH FLASHING AT EDGE OF ROOF.  
- INSTALL NEW FLASHING AT EDGE OF ROOF. PATCH ROOFING MEMBRANE AT ROOF EDGE AS NECESSARY.

- (4) - REMOVE 24" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- PROTECT EXISTING EXPOSED DUCT.  
- INSTALL STRAP PER STRUCTURAL.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
NOTE: ALL WORK TO BE PERFORMED ON ONE SIDE OF THE WALL AND, WHEREVER POSSIBLE, THE SAME SIDE OF THE WALL AS THE SHEAR WALL IMPROVEMENTS BELOW.

- (5) - REMOVE AND REPLACEMENT OF EXISTING SHEATHING WHERE NOTED TO PERFORM STRUCTURAL WORK NECESSARY.

- (6) - DEMOLISH ROOFING MEMBRANE AND INSULATION WHERE NEW SHEATHING IS REQUIRED PER STRUCTURAL.  
REMOVE ROOFING BALLAST.  
- SALVAGE AND REINSTALL MECHANICAL EQUIPMENT AND ELECTRICAL ITEMS.  
- DEMOLISH EXISTING ROOF DRAINS AND INSTALL NEW ROOF DRAINS AFTER STRUCTURAL WORK.  
- INSTALL NEW SHEATHING OVERLAY OR RE-NAIL SHEATHING PER STRUCTURAL.  
- INSTALL NEW ROOFING MEMBRANE, INSULATION, COVERBOARD AND FLASHING.

- (7) - REMOVE 36"x36" SQUARE OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- INSTALL HSS, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- PAINT ALL EXPOSED STEEL WITH A HIGH PERFORMANCE COATING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.



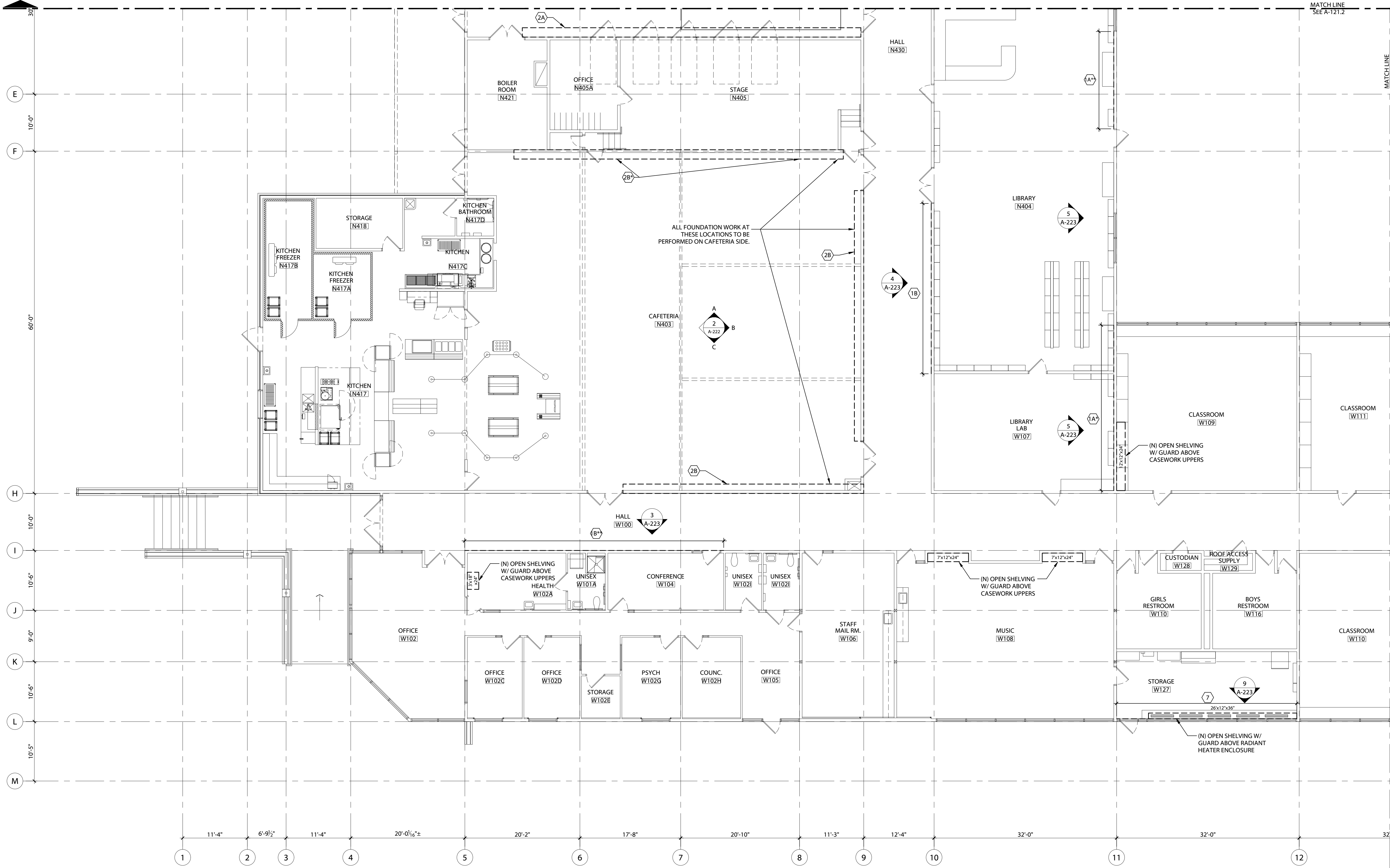
SEISMIC IMPROVEMENTS AND ROOFING REPLACEMENT  
BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL  
1500 NW 185TH AVE  
BEAVERTON, OR 97006



REVISIONS		
No.	Description	Date

DRAWN BY: SEE  
CHECKED BY: SEE  
JOB NO: 22-002 BSD MKES  
DATE: 04/22/2022  
ISSUED FOR: 100% DESIGN DEVELOPMENT  
SHEET TITLE  
ENLARGED FLOOR PLAN - SECTOR 1  
SHEET NO.

A-121.1



1 ENLARGED FLOOR PLAN - SECTOR 1 - EXISTING  
SCALE: 1/8" = 1'-0"



KEY PLAN  
SCALE: NOT TO SCALE

EXISTING FLOOR PLAN KEY NOTES

NOT ALL NOTES MAY BE USED.

NON-STRUCTURAL SCOPE  
GENERAL NOTES (TYPICAL ALL SHEETS): WORK TO OCCUR ON SAME SIDE OF WALL AS TAG UNLESS NOTED OTHERWISE. ALL EXPOSED EXTERIOR OR SUB-GRADE STEEL TO BE HOT-DIP GALVANIZED.

- (1A) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD, RUBBER BASE AND 12" STRIP OF CARPET.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- PROTECT EXISTING EXPOSED DUCT.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND CARPET WHERE REMOVED TO MATCH EXISTING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL (2) 4" TACK BOARDS AND (2) 8" WHITE BOARDS, TYP. IN CLASSROOMS AND WHERE NOTED.  
- AT CLASSROOMS, APPROX. 4' OF SHELVES AND A STEAM RADIATOR UNDER WINDOW TO BE SALVAGED AND REINSTALLED FOR WORK TO OCCUR (TYP.)  
- INSTALL NEW WOOD

- (1A\*) - SAME AS ABOVE BUT INCLUDES SALVAGING AND REINSTALLING BOOKSHELVES (APPROX 8'-0" AT EACH LOCATION).

- (1A\*) - SAME AS ABOVE BUT INCLUDES REMOVE, SALVAGE AND REINSTALL STEAM RADIATOR (APPROX 8'-0").

- (1B) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD OR GYPSUM WALL BOARD SURFACE, RUBBER BASE AND 12" STRIP OF VINYL TILE.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND VINYL FLOOR TILE WHERE REMOVED TO MATCH EXISTING.  
- INSTALL HARDWOOD TRIM, PAINTED TO MATCH ADJACENT WALL AT EACH SIDE OF NEW SHEAR WALL WORK.  
- MODIFY DOOR FRAMES TO ACCOMMODATE NEW WALL WIDTH FROM ADDITIONAL SHEATHING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL TACK RAILS AND TACKBOARDS WHERE OCCURRING.

- (1B\*) - SAME AS ABOVE BUT INCLUDES REMOVE, SALVAGE AND REINSTALL STEAM RADIATOR (APPROX 8'-0").

- (1B\*) - SAME AS 1B BUT INCLUDES SALVAGE AND REINSTALL (3) 8'-0" TACKBOARDS.

- (2A) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH PLASTER WALL AND BEAD BOARD VENEER, APPROXIMATELY 16'-0" HIGH.  
- DEMOLISH 12" STRIP OF TECTUM AT CEILING AND ENTIRE WALL PANEL ABOVE BEAD BOARD, APPROXIMATELY 4'-0" HIGH.  
- REMOVE AND SALVAGE BASKETBALL HOOP AND SUPPORTS (5 TOTAL IN GYM).  
- DEMOLISH VINYL FLOOR TILE, AND RUBBER BASE BOARD WHERE NECESSARY FOR STRUCTURAL WORK BELOW FLOOR.  
- SAWCUT AND DEMOLISH CONCRETE SLAB AND EXCAVATE AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS, SLAB ON GRADE AND FOUNDATION STRENGTHENING PER STRUCTURAL.  
- INSTALL NEW GYPSUM BOARD WITH PAINTED WOOD BEAD-BOARD VENEER.  
- INSTALL NEW TECTUM WALL PANEL BETWEEN CEILING AND NEW BEAD BOARD VENEER AND WHERE REMOVED FROM CEILING.  
- INSTALL NEW VINYL FLOOR TILE AND RUBBER BASE BOARD TO MATCH EXISTING.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL CLIMBING WALL AND PROJECTOR SCREEN WHERE OCCURRING.

- (2B) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD OR GYPSUM WALL BOARD SURFACE, RUBBER BASE AND 24" STRIP OF VINYL TILE.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- SAWCUT AND DEMOLISH CONCRETE SLAB AND EXCAVATE AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS, SLAB ON GRADE AND FOUNDATION STRENGTHENING PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND VINYL FLOOR TILE WHERE REMOVED TO MATCH EXISTING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.

- (2B\*) - SAME AS ABOVE BUT NOTE: WORK AT THIS LOCATION TO BE PERFORMED IN CONJUNCTION WITH SCOPE ABOVE THE ROOF LINE. SEE ITEM 3.
- (3) - DEMOLISH EXTERIOR VERTICAL WOOD SIDING, SHEATHING AND BATT INSULATION AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW BATT INSULATION TO MATCH EXISTING ADJACENT, EXTERIOR VERTICAL WOOD SIDING TO MATCH EXISTING ADJACENT AND NEW BASE FLASHING.  
- PAINT TO MATCH EXISTING ADJACENT.

- (3A) SAME AS ABOVE BUT INCLUDES:  
- DEMOLISH FLASHING AT EDGE OF ROOF.  
- INSTALL NEW FLASHING AT EDGE OF ROOF. PATCH ROOFING MEMBRANE AT ROOF EDGE AS NECESSARY

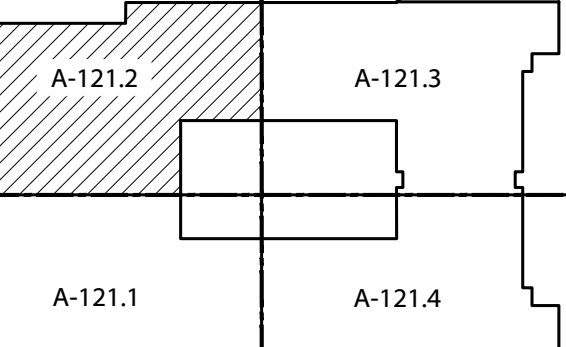
- (4) - REMOVE 24" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- PROTECT EXISTING EXPOSED DUCT.  
- INSTALL STRAP PER STRUCTURAL.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
NOTE: ALL WORK TO BE PERFORMED ON ONE SIDE OF THE WALL AND, WHEREVER POSSIBLE, THE SAME SIDE OF THE WALL AS THE SHEAR WALL IMPROVEMENTS BELOW.

- (5) - REMOVAL AND REPLACEMENT OF EXISTING SHEATHING WHERE NOTED TO PERFORM STRUCTURAL WORK NECESSARY.

- (6) - DEMOLISH ROOFING MEMBRANE, INSULATION WHERE NEW SHEATHING IS REQUIRED PER STRUCTURAL.  
REMOVE ROOFING BALLAST.  
- SALVAGE AND REINSTALL MECHANICAL EQUIPMENT AND ELECTRICAL ITEMS.  
- DEMOLISH EXISTING ROOF DRAINS AND INSTALL NEW ROOF DRAINS AFTER STRUCTURAL WORK.  
- INSTALL NEW SHEATHING OVERLAY OR RE-NAIL SHEATHING PER STRUCTURAL.  
- INSTALL NEW ROOFING MEMBRANE, INSULATION, COVERBOARD AND FLASHING.

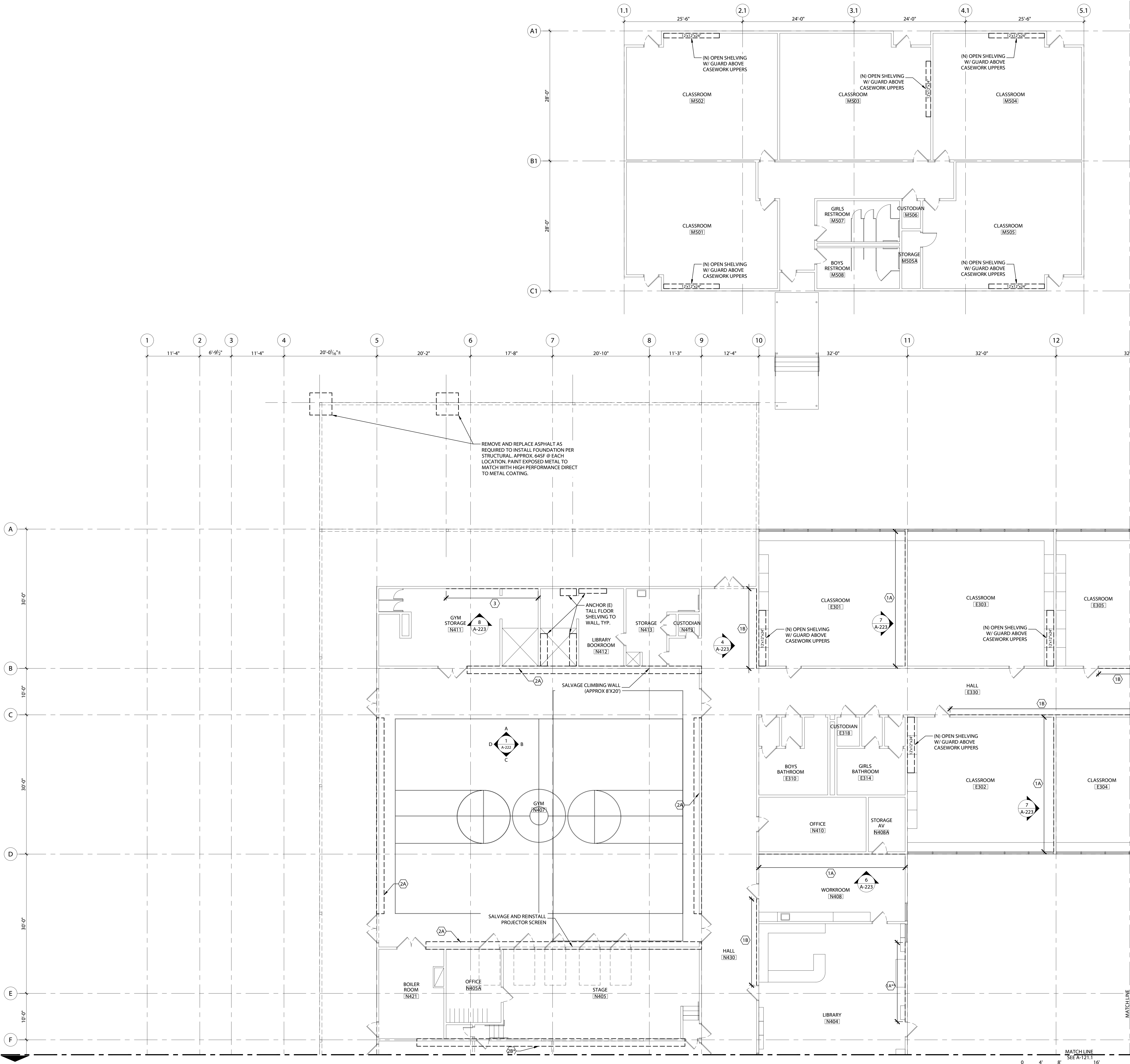
- (7) - REMOVE 36"x36" SQUARE OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- INSTALL HSS, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- PAINT ALL EXPOSED STEEL WITH A HIGH PERFORMANCE COATING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.

A-121.2



KEY PLAN  
SCALE: NOT TO SCALE

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



1 ENLARGED FLOOR PLAN - SECTOR 2 - EXISTING  
SCALE: 1/8" = 1'-0"

SEISMIC IMPROVEMENTS AND ROOFING REPLACEMENT  
BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL  
1500 NW 185TH AVE  
BEAVERTON, OR 97006



REVISIONS

No.	Description	Date

DRAWN BY: SEE

CHECKED BY: SEE

JOB NO: 22-002 BSD MKES

DATE: 04/22/2022

ISSUED FOR: 100% DESIGN DEVELOPMENT

SHEET TITLE

ENLARGED FLOOR PLAN - SECTOR 2

SHEET NO.

A-121.2

EXISTING FLOOR PLAN KEY NOTES

NOT ALL NOTES MAY BE USED.

NON-STRUCTURAL SCOPE  
GENERAL NOTES (TYPICAL ALL SHEETS): WORK TO OCCUR ON SAME SIDE OF WALL AS TAG UNLESS NOTED OTHERWISE. ALL EXPOSED EXTERIOR OR SUB-GRADE STEEL TO BE HOT-DIP GALVANIZED.

- (1A) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD, RUBBER BASE AND 12" STRIP OF CARPET.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- PROTECT EXISTING EXPOSED DUCT.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND CARPET WHERE REMOVED TO MATCH EXISTING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL (2) 4' TACK BOARDS AND (2) 8' WHITE BOARDS, TYP. IN CLASSROOMS AND WHERE NOTED.  
- AT CLASSROOMS, APPROX. 4" OF SHELVES AND A STEAM RADIATOR UNDER WINDOW TO BE SALVAGED AND REINSTALLED FOR WORK TO OCCUR (TYP.)  
- INSTALL NEW WOOD

- (1A) - SAME AS ABOVE BUT INCLUDES SALVAGING AND REINSTALLING BOOKSHELVES (APPROX 8'-0" AT EACH LOCATION).

- (A) - SAME AS ABOVE BUT INCLUDES REMOVE, SALVAGE AND REINSTALL STEAM RADIATOR (APPROX 8'-0").

- (1B) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD OR GYPSUM WALL BOARD SURFACE, RUBBER BASE AND 12" STRIP OF VINYL TILE.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND VINYL FLOOR TILE WHERE REMOVED TO MATCH EXISTING.  
- INSTALL HARDWOOD TRIM, PAINTED TO MATCH ADJACENT WALL AT EACH SIDE OF NEW SHEAR WALL WORK.  
- MODIFY DOOR FRAMES TO ACCOMMODATE NEW WALL WIDTH FROM ADDITIONAL SHEATHING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL TACK RAILS AND TACKBOARDS WHERE OCCURRING.

- (1B) - SAME AS ABOVE BUT INCLUDES REMOVE, SALVAGE AND REINSTALL STEAM RADIATOR (APPROX 8'-0").

- (B) - SAME AS 1B BUT INCLUDES SALVAGE AND REINSTALL (3) 8'-0" TACKBOARDS.

- (2A) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH PLASTER WALL AND BEAD BOARD VENEER, APPROXIMATELY 16'-0" HIGH.  
- DEMOLISH 12" STRIP OF TECTUM AT CEILING AND ENTIRE WALL PANEL ABOVE BEAD BOARD, APPROXIMATELY 4'-0" HIGH.  
- REMOVE AND SALVAGE BASKETBALL HOOP AND SUPPORTS (5 TOTAL IN GYM).  
- DEMOLISH VINYL FLOOR TILE, AND RUBBER BASE BOARD WHERE NECESSARY FOR STRUCTURAL WORK BELOW FLOOR.  
- SAWCUT AND DEMOLISH CONCRETE SLAB AND EXCAVATE AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS, SLAB ON GRADE AND FOUNDATION STRENGTHENING PER STRUCTURAL.  
- INSTALL NEW GYPSUM BOARD WITH PAINTED WOOD BEAD-BOARD VENEER.  
- INSTALL NEW TECTUM WALL PANEL BETWEEN CEILING AND NEW BEAD BOARD VENEER AND WHERE REMOVED FROM CEILING.  
- INSTALL NEW VINYL FLOOR TILE AND RUBBER BASE BOARD TO MATCH EXISTING.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL CLIMBING WALL AND PROJECTOR SCREEN WHERE OCCURRING.

- (2B) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD OR GYPSUM WALL BOARD SURFACE, RUBBER BASE AND 24" STRIP OF VINYL TILE.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- SAWCUT AND DEMOLISH CONCRETE SLAB AND EXCAVATE AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS, SLAB ON GRADE AND FOUNDATION STRENGTHENING PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND VINYL FLOOR TILE WHERE REMOVED TO MATCH EXISTING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.

- (2B) - SAME AS ABOVE BUT NOTE- WORK AT THIS LOCATION TO BE PERFORMED IN CONJUNCTION WITH SCOPE ABOVE THE ROOF LINE. SEE ITEM 3.  
(3) - DEMOLISH EXTERIOR VERTICAL WOOD SIDING, SHEATHING AND BATT INSULATION AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW BATT INSULATION TO MATCH EXISTING ADJACENT.  
- EXTERIOR VERTICAL WOOD SIDING TO MATCH EXISTING ADJACENT AND NEW BASE FLASHING.  
- PAINT TO MATCH EXISTING ADJACENT.

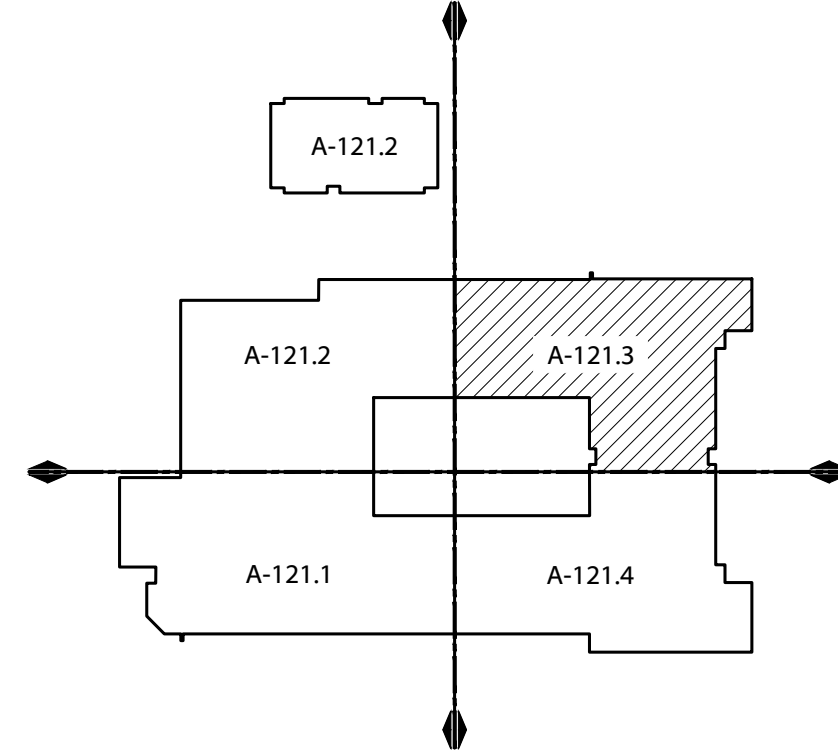
- (3A) - SAME AS ABOVE BUT INCLUDES:  
- DEMOLISH FLASHING AT EDGE OF ROOF.  
- INSTALL NEW FLASHING AT EDGE OF ROOF, PATCH ROOFING MEMBRANE AT ROOF EDGE AS NECESSARY

- (4) - REMOVE 24" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- PROTECT EXISTING EXPOSED DUCT.  
- INSTALL STRAP PER STRUCTURAL.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
NOTE: ALL WORK TO BE PERFORMED ON ONE SIDE OF THE WALL AND, WHEREVER POSSIBLE, THE SAME SIDE OF THE WALL AS THE SHEAR WALL IMPROVEMENTS BELOW.

- (5) - REMOVAL AND REPLACEMENT OF EXISTING SHEATHING WHERE NOTED TO PERFORM STRUCTURAL WORK NECESSARY.

- (6) - DEMOLISH ROOFING MEMBRANE AND INSULATION WHERE NEW SHEATHING IS REQUIRED PER STRUCTURAL.  
- REMOVE ROOFING BALLAST.  
- SALVAGE AND REINSTALL MECHANICAL EQUIPMENT AND ELECTRICAL ITEMS.  
- DEMOLISH EXISTING ROOF DRAINS AND INSTALL NEW ROOF DRAINS AFTER STRUCTURAL WORK.  
- INSTALL NEW SHEATHING OVERLAY OR RE-NAIL SHEATHING PER STRUCTURAL.  
- INSTALL NEW ROOFING MEMBRANE, INSULATION, COVERBOARD AND FLASHING.

- (7) - REMOVE 36"X36" SQUARE OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- INSTALL HSS, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- PAINT ALL EXPOSED STEEL WITH A HIGH PERFORMANCE COATING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.



KEY PLAN  
SCALE: NOT TO SCALE

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BEAVERTON SCHOOL DISTRICT  
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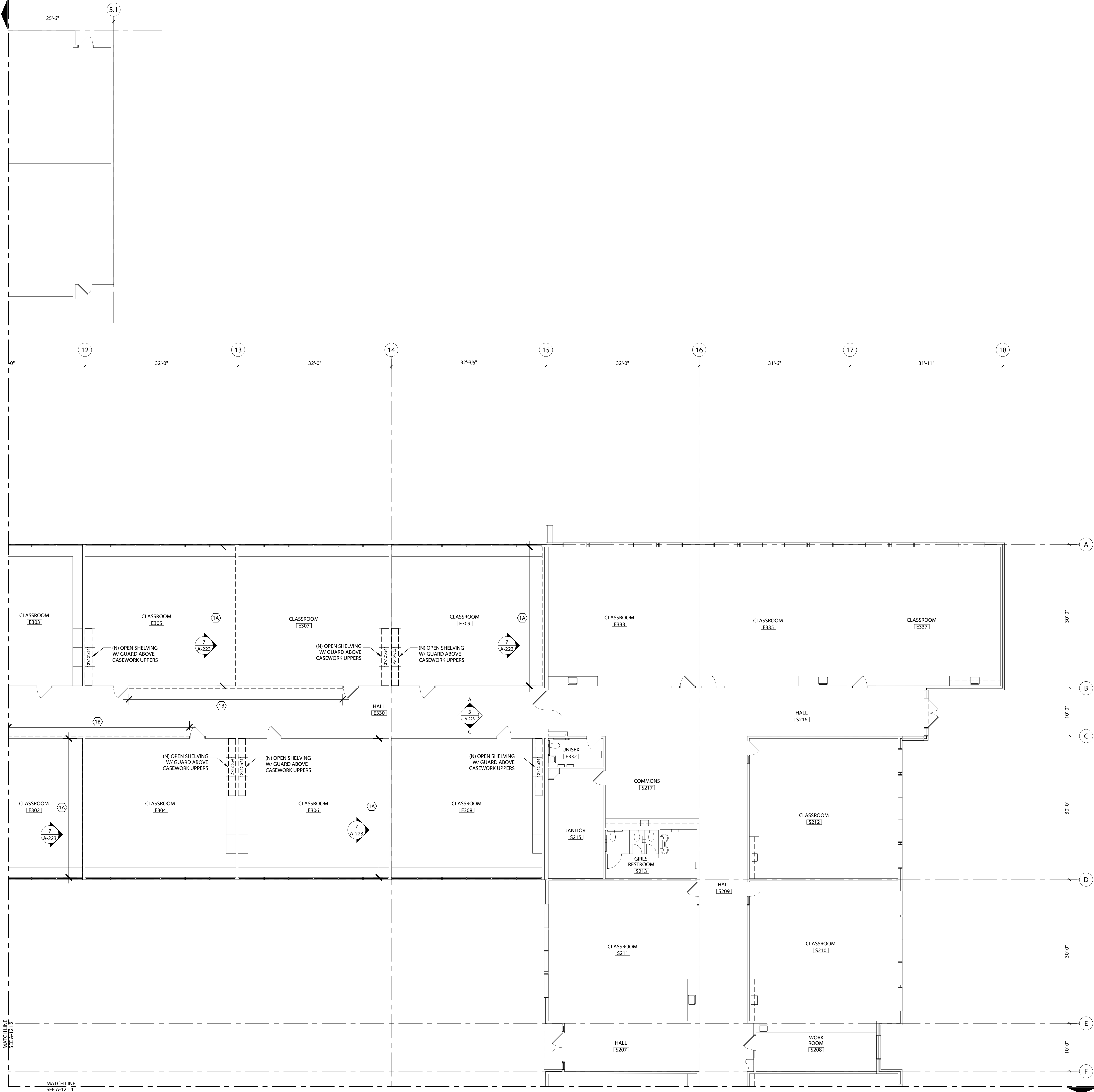
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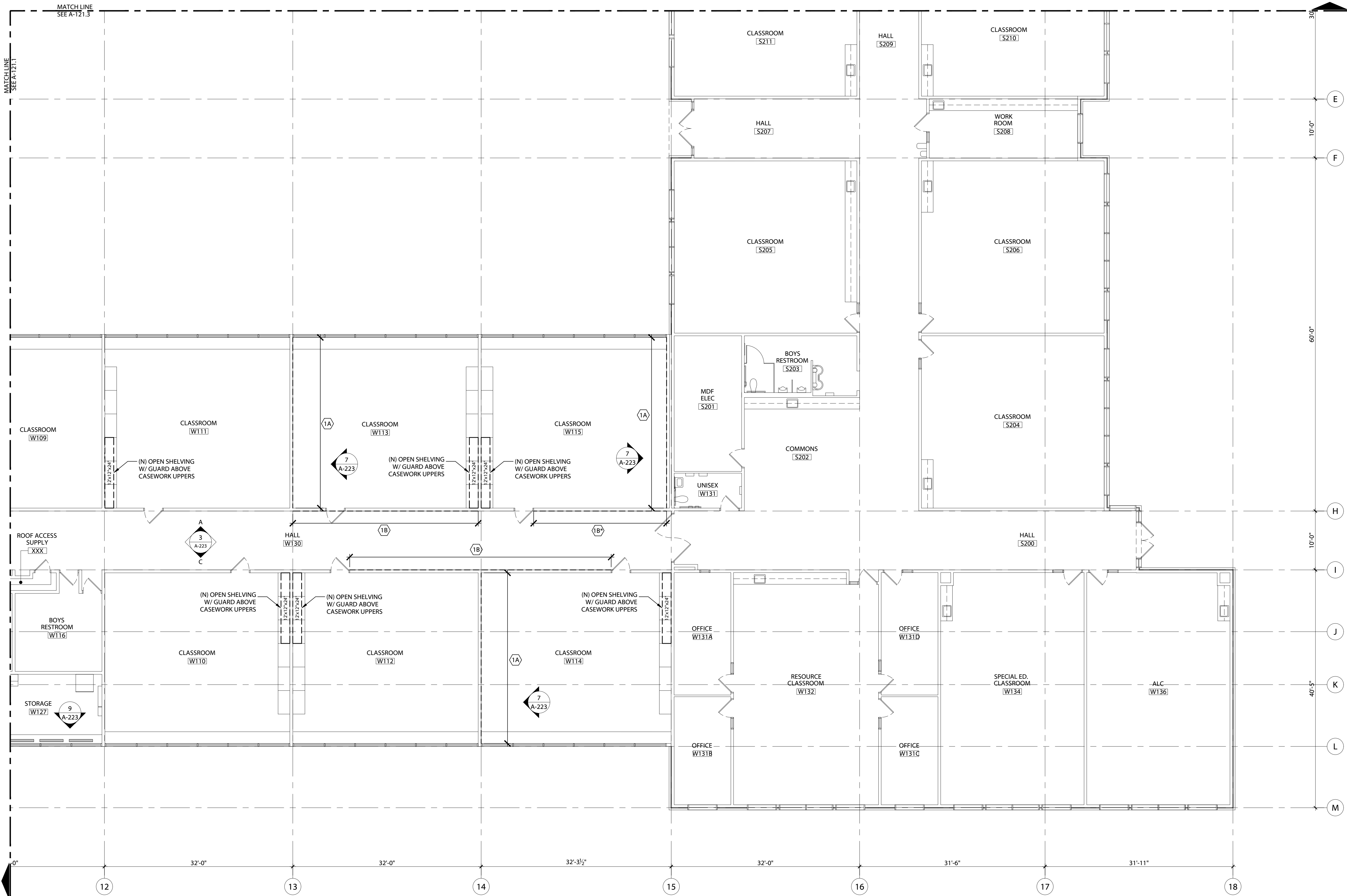
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SHEET TITLE  
ENLARGED FLOOR PLAN - SECTOR 3  
SHEET NO.

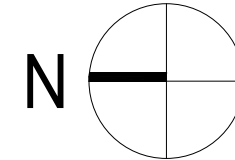
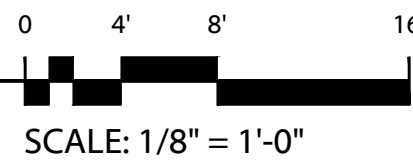
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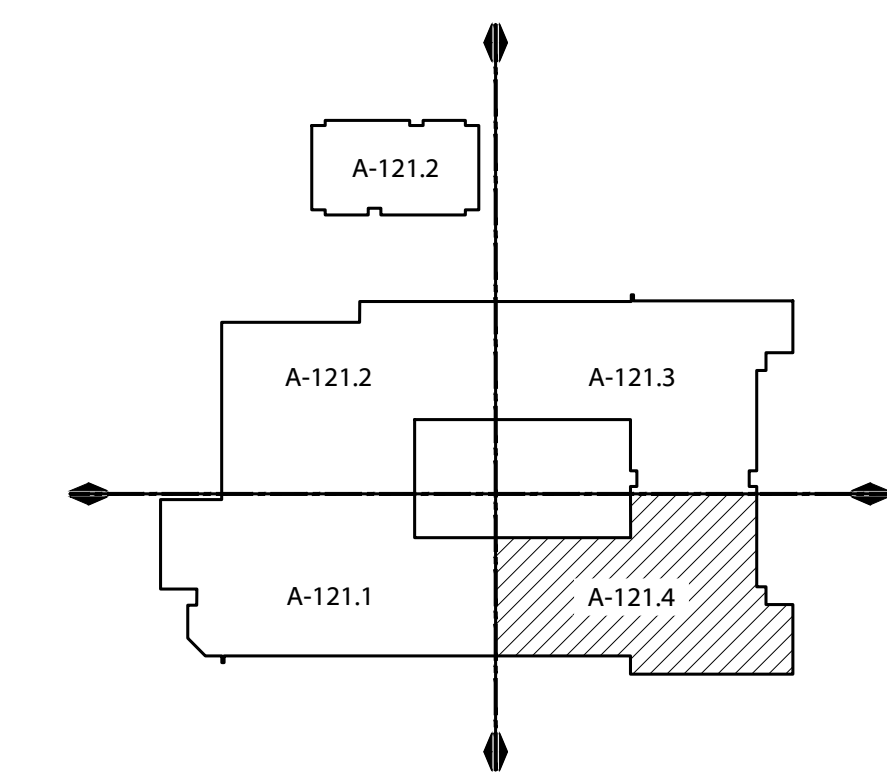
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1 ENLARGED FLOOR PLAN - SECTOR 4 - EXISTING  
SCALE: 1/8" = 1'-0"



KEY PLAN  
SCALE: NOT TO SCALE



## EXISTING FLOOR PLAN KEY NOTES

NOT ALL NOTES MAY BE USED.

NON-STRUCTURAL SCOPE  
GENERAL NOTES (TYPICAL ALL SHEETS): WORK TO OCCUR ON SAME SIDE OF WALL AS TAG UNLESS NOTED OTHERWISE. ALL EXPOSED EXTERIOR OR SUB-GRADE STEEL TO BE HOT-DIP GALVANIZED.

- (1A) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.
  - DEMOLISH VINYL COVERED FIBERBOARD, RUBBER BASE AND 12" STRIP OF CARPET.
  - REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.
  - PROTECT EXISTING EXPOSED DUCT.
  - INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.
  - INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND CARPET WHERE REMOVED TO MATCH EXISTING.
  - INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.
  - REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.
  - SALVAGE AND REINSTALL (2) 4" TACK BOARDS AND (2) 8" WHITE BOARDS, TYP. IN CLASSROOMS AND WHERE NOTED.
  - AT CLASSROOMS, APPROX. 4' OF SHELVES AND A STEAM RADIATOR UNDER WINDOW TO BE SALVAGED AND REINSTALLED FOR WORK TO OCCUR (TYP.)
  - INSTALL NEW WOOD

- (1A\*) - SAME AS ABOVE BUT INCLUDES SALVAGING AND REINSTALLING BOOKSHELVES (APPROX 8'-0" AT EACH LOCATION).

- (A\*) - SAME AS ABOVE BUT INCLUDES REMOVE, SALVAGE AND REINSTALL STEAM RADIATOR (APPROX 8'-0").

- (1B) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.
  - DEMOLISH VINYL COVERED FIBERBOARD OR GYPSUM WALL BOARD SURFACE, RUBBER BASE AND 12" STRIP OF VINYL TILE.
  - REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.
  - INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.
  - INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND VINYL FLOOR TILE WHERE REMOVED TO MATCH EXISTING.
  - INSTALL HARDWOOD TRIM, PAINTED TO MATCH ADJACENT WALL AT EACH SIDE OF NEW SHEAR WALL WORK.
  - MODIFY DOOR FRAMES TO ACCOMMODATE NEW WALL WIDTH FROM ADDITIONAL SHEATHING.
  - INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.
  - REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.
  - SALVAGE AND REINSTALL TACK RAILS AND TACKBOARDS WHERE OCCURRING.

- (1B\*) - SAME AS ABOVE BUT INCLUDES REMOVE, SALVAGE AND REINSTALL STEAM RADIATOR (APPROX 8'-0").

- (1B\*) - SAME AS 1B BUT INCLUDES SALVAGE AND REINSTALL (3) 8'-0" TACKBOARDS.

- (2A) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.
  - DEMOLISH PLASTER WALL AND BEAD BOARD VENEER, APPROXIMATELY 16'-0" HIGH.
  - DEMOLISH 12" STRIP OF TECTUM AT CEILING AND ENTIRE WALL PANEL ABOVE BEAD BOARD, APPROXIMATELY 4'-0" HIGH.
  - REMOVE AND SALVAGE BASKETBALL HOOP AND SUPPORTS (5 TOTAL IN GYM).
  - DEMOLISH VINYL FLOOR TILE, AND RUBBER BASE BOARD WHERE NECESSARY FOR STRUCTURAL WORK BELOW FLOOR.
  - SAWCUT AND DEMOLISH CONCRETE SLAB AND EXCAVATE AS NECESSARY FOR STRUCTURAL WORK.
  - INSTALL SHEATHING, HOLD DOWNS, ANCHORS, SLAB ON GRADE AND FOUNDATION STRENGTHENING PER STRUCTURAL.
  - INSTALL NEW GYPSUM BOARD WITH PAINTED WOOD BEAD-BOARD VENEER.
  - INSTALL NEW TECTUM WALL PANEL BETWEEN CEILING AND NEW BEAD BOARD VENEER AND WHERE REMOVED FROM CEILING.
  - INSTALL NEW VINYL FLOOR TILE AND RUBBER BASE BOARD TO MATCH EXISTING.
  - REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.
  - SALVAGE AND REINSTALL CLIMBING WALL AND PROJECTOR SCREEN WHERE OCCURRING.

- (2B) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.
  - DEMOLISH VINYL COVERED FIBERBOARD OR GYPSUM WALL BOARD SURFACE, RUBBER BASE AND 24" STRIP OF VINYL TILE.
  - REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.
  - SAWCUT AND DEMOLISH CONCRETE SLAB AND EXCAVATE AS NECESSARY FOR STRUCTURAL WORK.
  - INSTALL SHEATHING, HOLD DOWNS, ANCHORS, SLAB ON GRADE AND FOUNDATION STRENGTHENING PER STRUCTURAL.
  - INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND VINYL FLOOR TILE WHERE REMOVED TO MATCH EXISTING.
  - INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.
  - REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.

- (2B\*) - SAME AS ABOVE BUT NOTE: WORK AT THIS LOCATION TO BE PERFORMED IN CONJUNCTION WITH SCOPE ABOVE THE ROOF LINE. SEE ITEM 3.

- (3) - DEMOLISH EXTERIOR VERTICAL WOOD SIDING, SHEATHING AND BATT INSULATION AS NECESSARY FOR STRUCTURAL WORK.
  - INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.
  - INSTALL NEW BATT INSULATION TO MATCH EXISTING ADJACENT, EXTERIOR VERTICAL WOOD SIDING TO MATCH EXISTING ADJACENT AND NEW BASE FLASHING.
  - PAINT TO MATCH EXISTING ADJACENT.

- (3A) SAME AS ABOVE BUT INCLUDES:
  - DEMOLISH FLASHING AT EDGE OF ROOF.
  - INSTALL NEW FLASHING AT EDGE OF ROOF. PATCH ROOFING MEMBRANE AT ROOF EDGE AS NECESSARY.

- (4) - REMOVE 24" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.
  - PROTECT EXISTING EXPOSED DUCT.
  - INSTALL STRAP PER STRUCTURAL.
  - INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.NOTE: ALL WORK TO BE PERFORMED ON ONE SIDE OF THE WALL AND, WHEREVER POSSIBLE, THE SAME SIDE OF THE WALL AS THE SHEAR WALL IMPROVEMENTS BELOW.

- (5) - REMOVAL AND REPLACEMENT OF EXISTING SHEATHING WHERE NOTED TO PERFORM STRUCTURAL WORK NECESSARY.

- (6) - DEMOLISH ROOFING MEMBRANE AND INSULATION WHERE NEW SHEATHING IS REQUIRED PER STRUCTURAL.
  - REMOVE ROOFING BALLAST.
  - SALVAGE AND REINSTALL MECHANICAL EQUIPMENT AND ELECTRICAL ITEMS.
  - DEMOLISH EXISTING ROOF DRAINS AND INSTALL NEW ROOF DRAINS AFTER STRUCTURAL WORK.
  - INSTALL NEW SHEATHING OVERLAY OR RE-NAIL SHEATHING PER STRUCTURAL.
  - INSTALL NEW ROOFING MEMBRANE, INSULATION, COVERBOARD AND FLASHING.

- (7) - REMOVE 36"x36" SQUARE OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.
  - INSTALL HSS, HOLD DOWNS, ANCHORS PER STRUCTURAL.
  - PAINT ALL EXPOSED STEEL WITH A HIGH PERFORMANCE COATING.
  - INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.

## SEISMIC IMPROVEMENTS AND ROOFING REPLACEMENT BEAVERTON SCHOOL DISTRICT MCKINLEY ELEMENTARY SCHOOL

1500 NW 185TH AVE  
BEAVERTON, OR 97006



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JOB NO: 22-002 BSD MKES

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SHEET TITLE

ENLARGED FLOOR PLAN - SECTOR 4

SHEET NO.

A-121.4

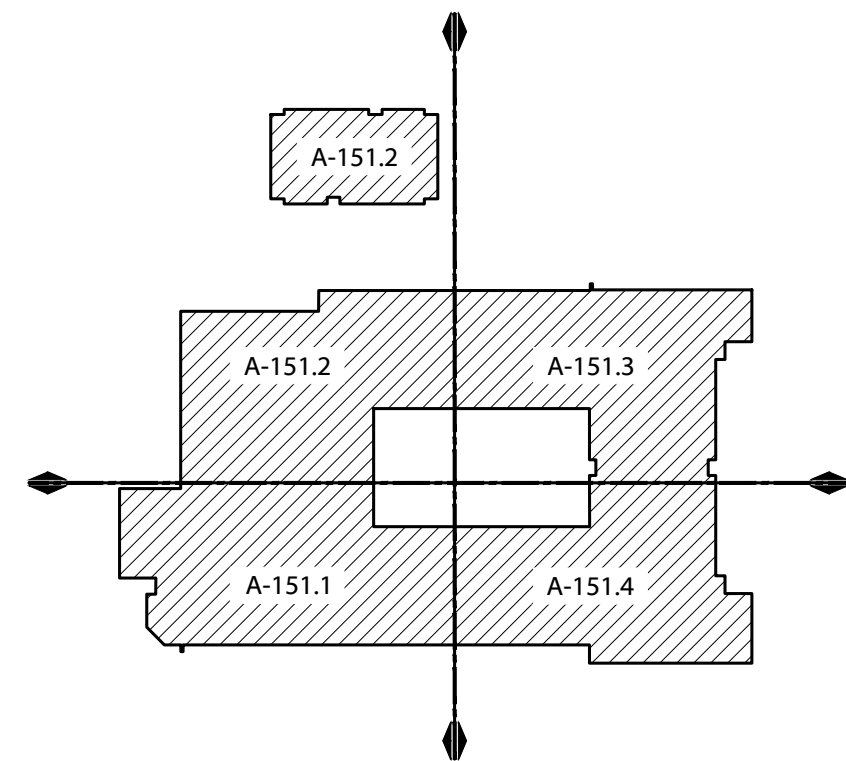
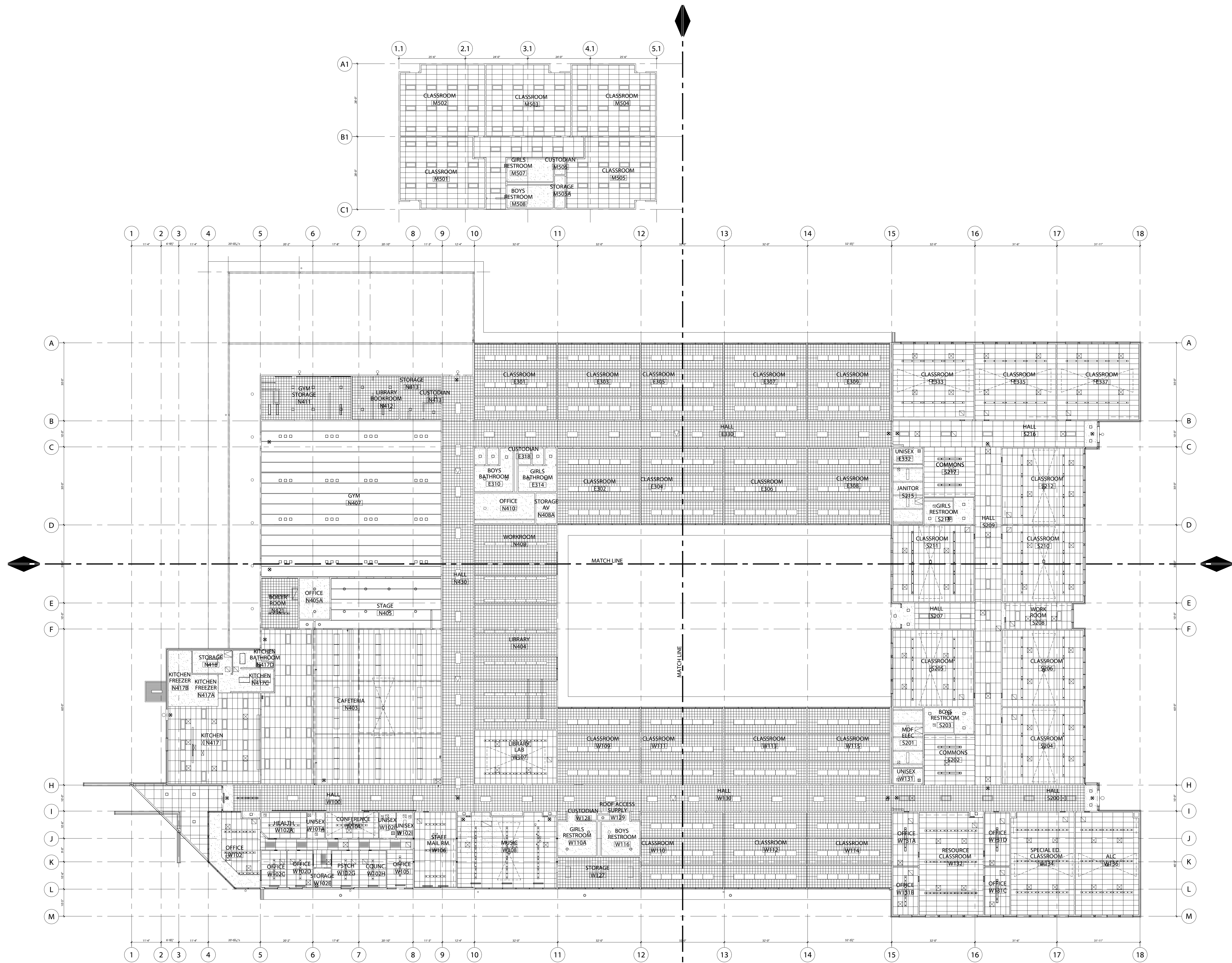
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BEAVERTON, OR 97006



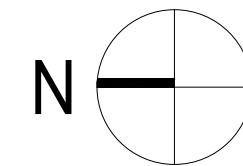
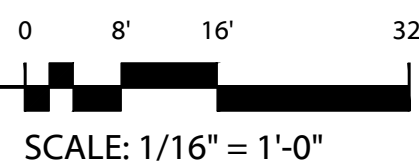
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DATE: 04/22/2022  
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SHEET TITLE  
OVERALL RCP  
SHEET NO.

A-151



1 OVERALL RCP - EXISTING  
SCALE: 1/16" = 1'-0"



KEY PLAN  
SCALE: NOT TO SCALE

EXISTING RCP SHEET NOTES

- SEE GENERAL DEMOLITION NOTES ON G-001.
- INFORMATION RELATING TO THE EXISTING BUILDING IS BASED ON FIELD MEASUREMENTS. ACTUAL CONDITIONS MAY VARY & SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- DEMOLISH AS REQUIRED TO ACCOMPLISH WORK INDICATED IN THESE DOCUMENTS. ALL REQUIRED DEMOLITION WORK SHALL BE INCLUDED IN THE BASE BID PACKAGE SUBMITTED BY THE CONTRACTOR.
- VERIFY LIMITS OF DEMOLITION REQUIRED TO COMPLETE WORK PRIOR TO COMMENCEMENT. GRAPHIC REPRESENTATION OF AFFECTED AREAS ON DRAWINGS MAY BE SMALLER OR LARGER THAN INDICATED.
- ONLY MAJOR ITEMS OF DEMOLITION ARE SHOWN. REMOVE MISCELLANEOUS MINOR ITEMS AS APPROPRIATE FOR PROPER COMPLETION OF THE WORK.
- COORDINATE REMOVAL AND REINSTALLATION OF EQUIPMENT TO REMAIN AS REQUIRED FOR NEW FLOOR, WALL AND CEILING FINISHES.
- FOR FIRE RATED WALL LOCATIONS, SEE OVERALL PLAN.

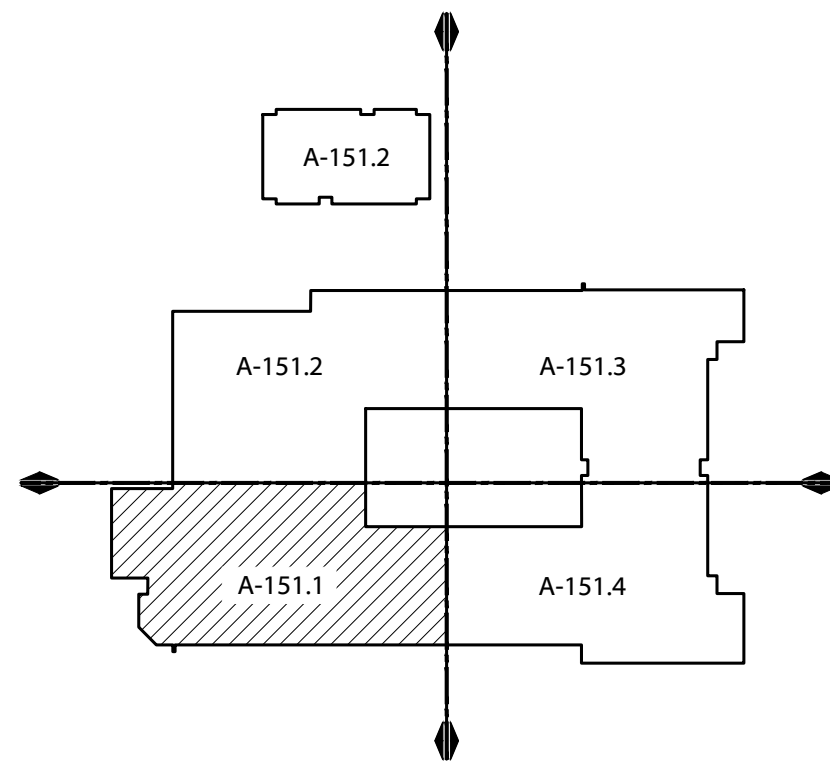
EXISTING RCP LEGEND

NOT ALL SYMBOLS MAY BE USED. SIZES AND PROPORTIONS OF FIXTURES MAY VARY FROM WHAT IS ILLUSTRATED IN LEGEND.

- (X-XX) CEILING HEIGHT ABOVE FINISHED FLOOR
- OPEN OPEN TO STRUCTURE
- (E) 2' X 4' SUSPENDED ACOUSTIC CEILING TILE SYSTEM
- (E) RECESSED 2' X 4' LIGHT FIXTURE TO REMAIN
- DEMO 2' X 4' SUSPENDED ACOUSTIC CEILING TILE SYSTEM
- DEMO RECESSED 2' X 4' LED LIGHT FIXTURE
- (E) 30" X 60" CEILING TILE SYSTEM TO REMAIN
- DEMO (E) 30" X 60" TROFFER
- (E) 12" X 12" ACOUSTIC TILE, CONCEALED SPLINE TO REMAIN
- DEMO 12" X 12" ACOUSTIC TILE, GLUED UP
- DEMO 12" X 12" ACOUSTIC TILE, CONCEALED SPLINE
- (E) 12" X 12" ACOUSTIC TILE, GLUED UP TO REMAIN
- (E) GYPSUM BOARD CEILING TO REMAIN
- (E) CEILING SYSTEM TO REMAIN
- (E) EXPOSED STRUCTURE AND METAL DECKING.
- (E) SUSPENDED LIGHT FIXTURE
- DEMO SUSPENDED LIGHT FIXTURE
- (E) SURFACE MOUNTED LIGHT FIXTURE
- DEMO SURFACE MOUNTED LIGHT FIXTURE
- (E) CEILING & WALL MOUNTED EXIT SIGN W/DIRECTIONAL ARROW
- (E) & (R) RELOCATED SPRINKLER HEAD
- (E) & DEMO CEILING MOUNTED SPEAKER
- (E) & DEMO CEILING MOUNTED EXHAUST FAN
- (E) & DEMO RETURN AIR GRILL
- (E) & DEMO SUPPLY AIR DIFFUSER
- DEMO CLNG & ROOF AS NEEDED FOR SOLAR TUBE

EXISTING RCP KEY NOTES

- DEMO LIGHT FIXTURE
- DEMO CEILING
- DEMO CEILING AND ROOF AS REQUIRED FOR NEW SOLAR TUBES.
- DEMO SHELVING SYSTEM, INCLUDING TRACKS. PREP CLG FOR PAINT.
- DEMO DUST COLLECTION SYSTEM
- SALVAGE 30" X 60" ACOUSTIC CEILING TILE FOR REUSE IN NEW LOCATION
- <NOT USED>
- DEMO 12" X 12" ACOUSTIC TILE, GLUED TO GYPSUM BOARD. PREP GYPSUM BOARD TO BE PAINTED.
- DEMO 12" X 12" ACOUSTIC TILE, CONCEALED SPLINE SYSTEM
- DEMO 2' X 4' SUSPENDED ACOUSTIC CEILING TILE SYSTEM AND 12" X 12" ACOUSTIC TILE, GLUED TO GYPSUM BOARD ABOVE. PREP SUBSTRATE GYPSUM BOARD FOR NEW FINISH. SEE 1/A-414 FOR EXTENTS.
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.
- DEMOLISH 12" STRIP OF TECTUM AT CEILING AND ENTIRE WALL PANEL ABOVE BEAD BOARD, APPROX. 4'-0" HIGH.
- REMOVE 24" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- PROTECT EXISTING EXPOSED DUCT.  
- INSTALL STRAP PER STRUCTURAL.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
NOTE: ALL WORK TO BE PERFORMED ON ONE SIDE OF THE WALL AND, WHEREVER POSSIBLE, THE SAME SIDE OF THE WALL AS THE SHEAR WALL IMPROVEMENTS BELOW.



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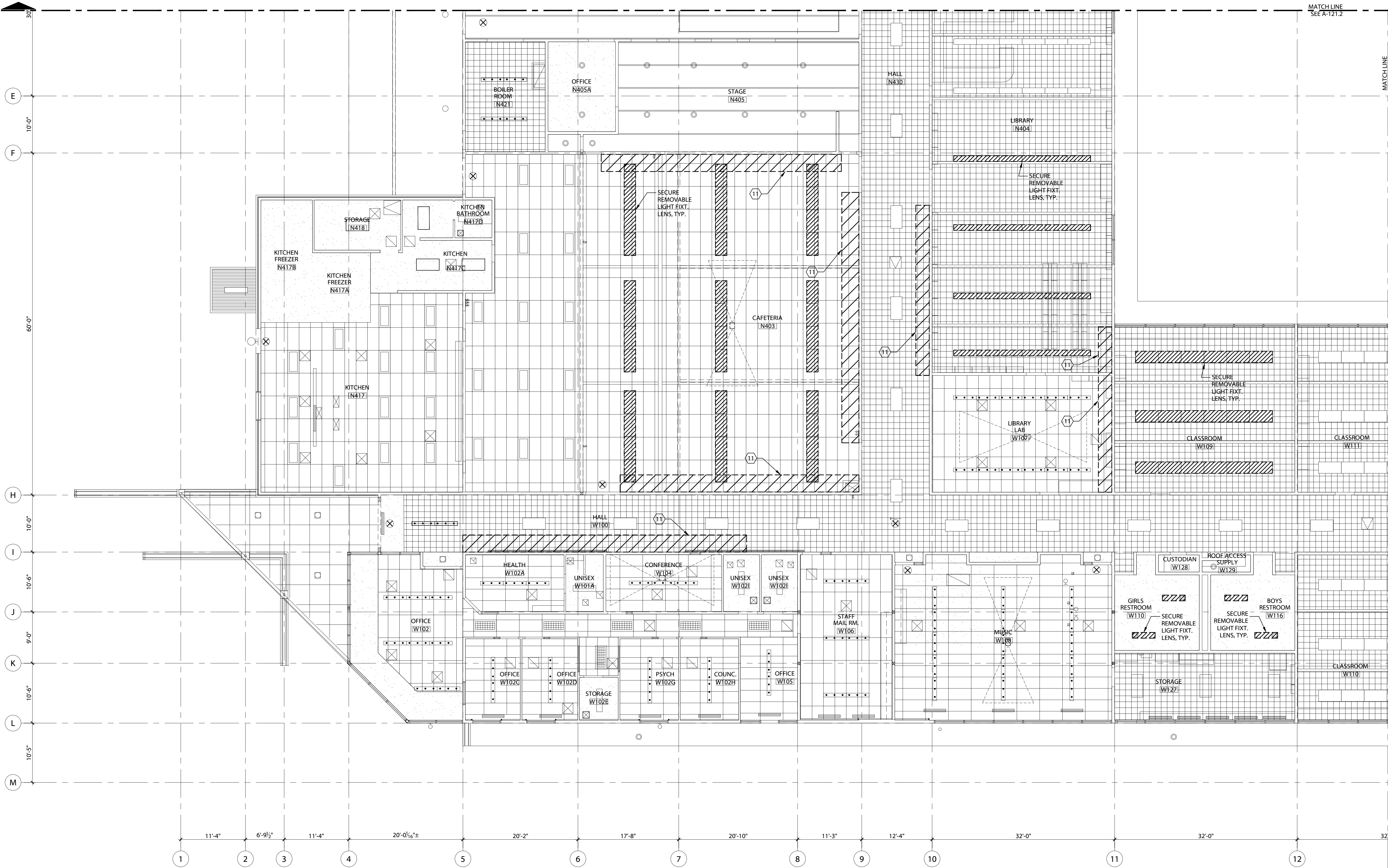
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**BEAVERTON**  
SCHOOL DISTRICT

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ENLARGED RCP - SECTOR 1  
SHEET NO.

A-151.1



1 ENLARGED RCP - SECTOR 1 - EXISTING  
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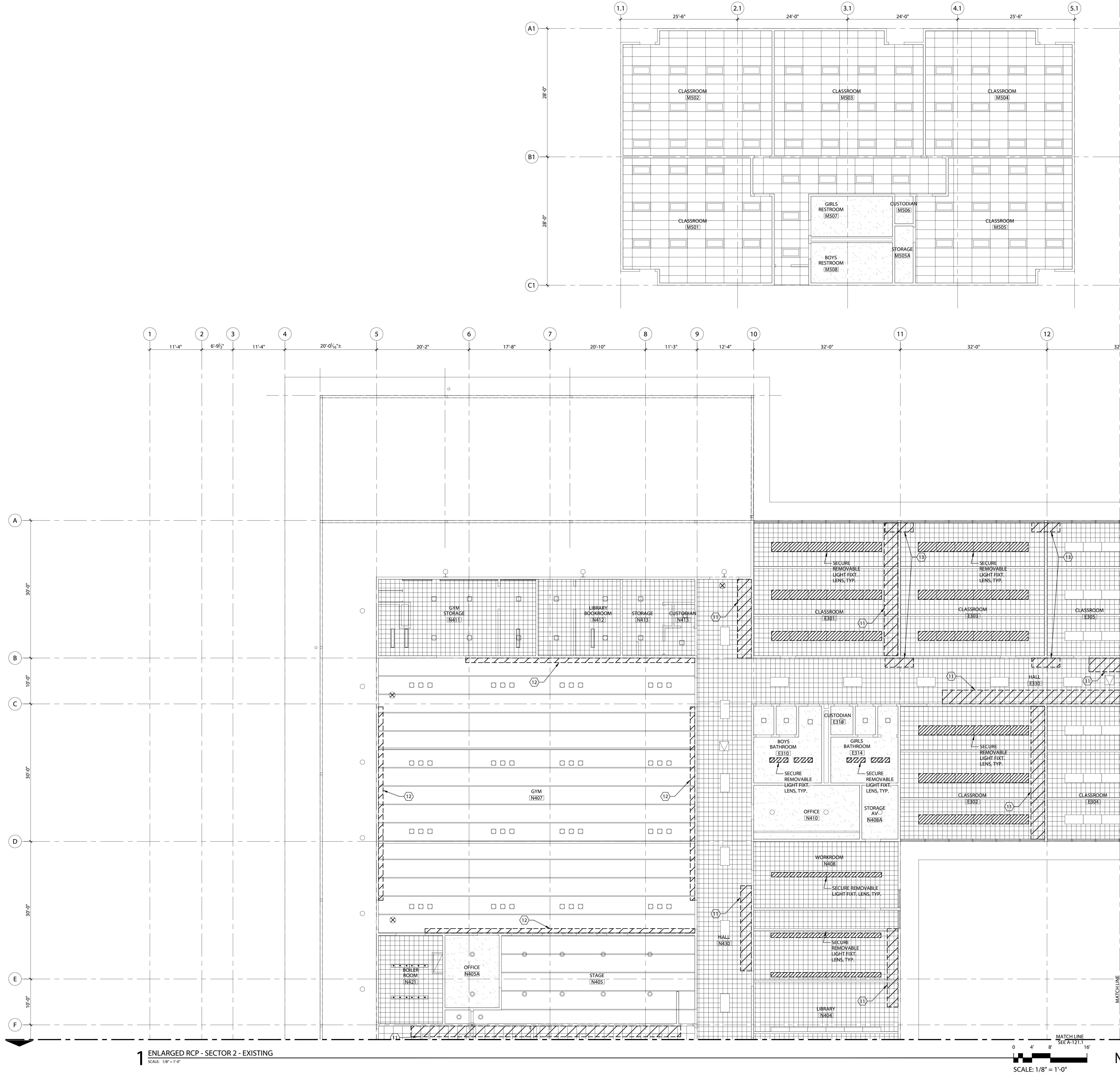
KEY PLAN  
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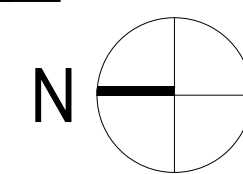
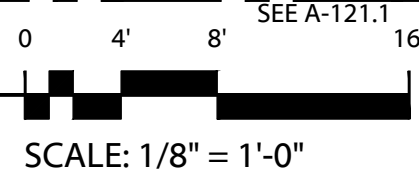
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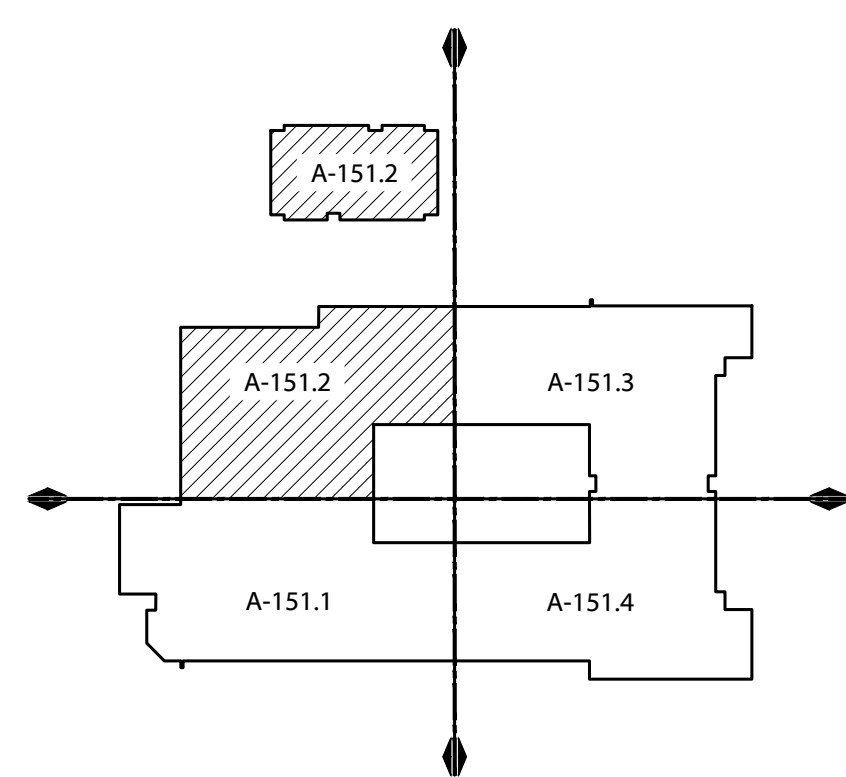
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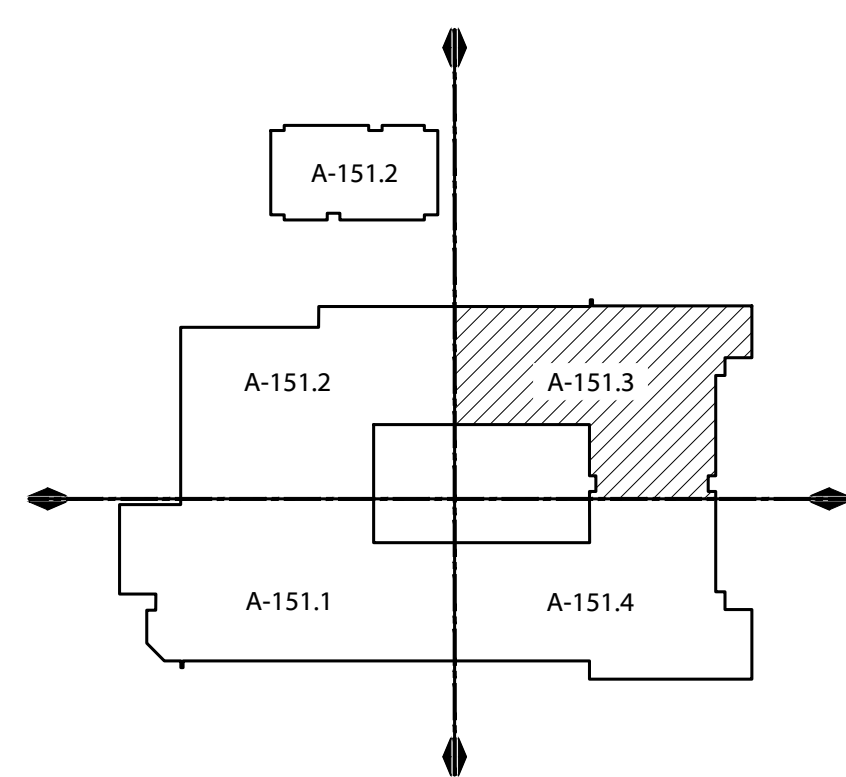


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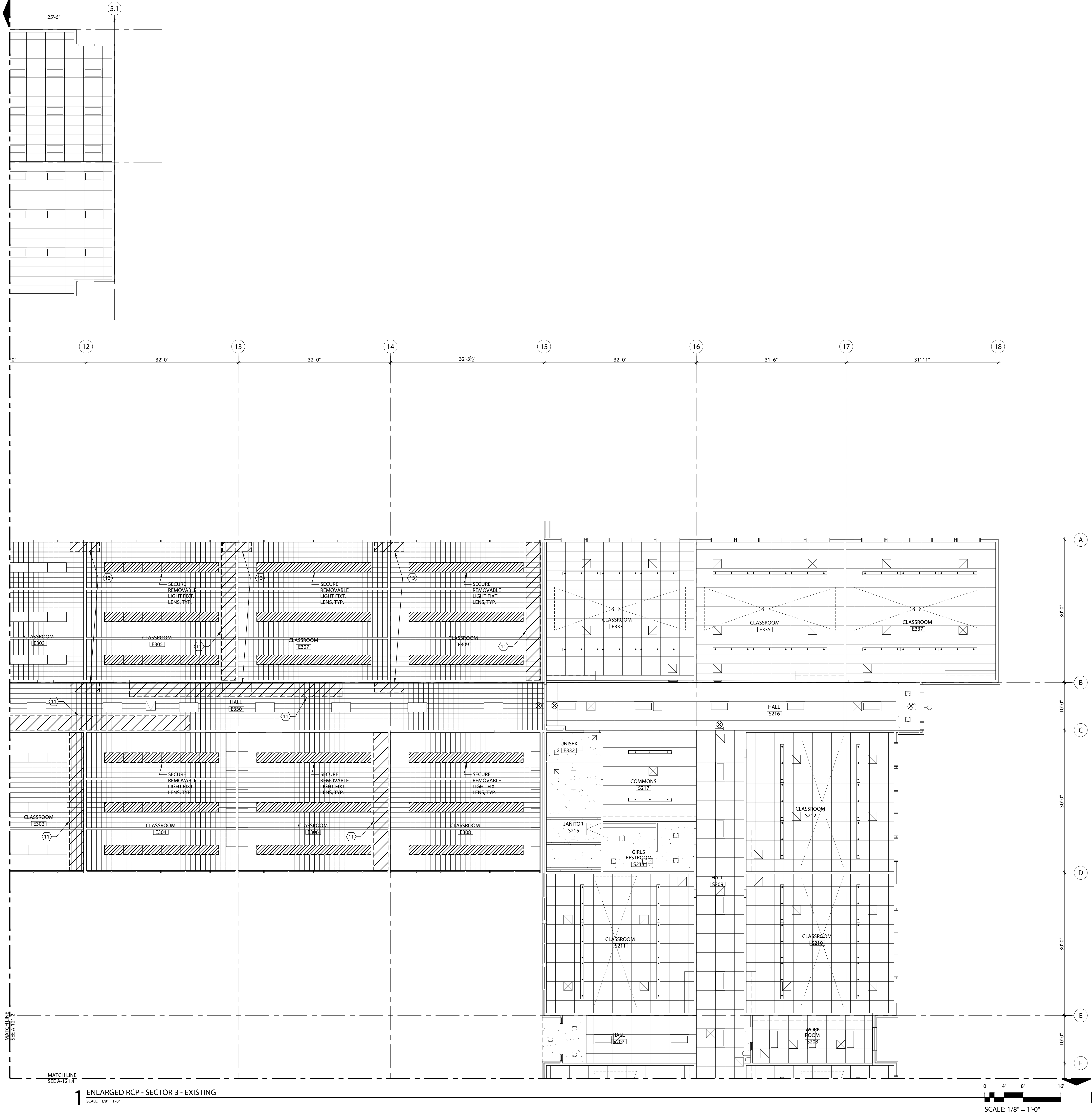


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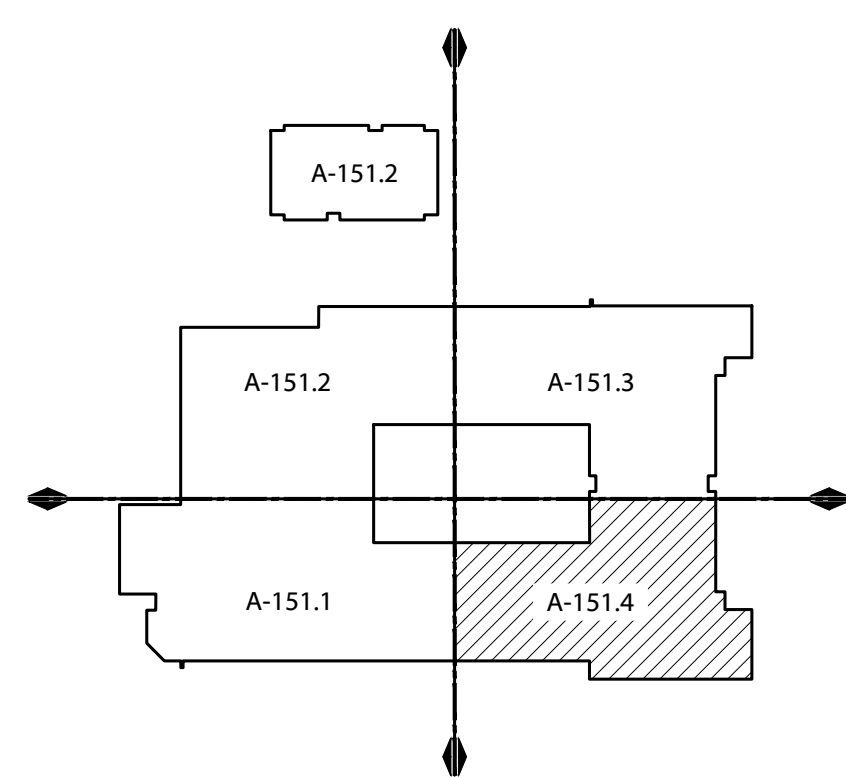
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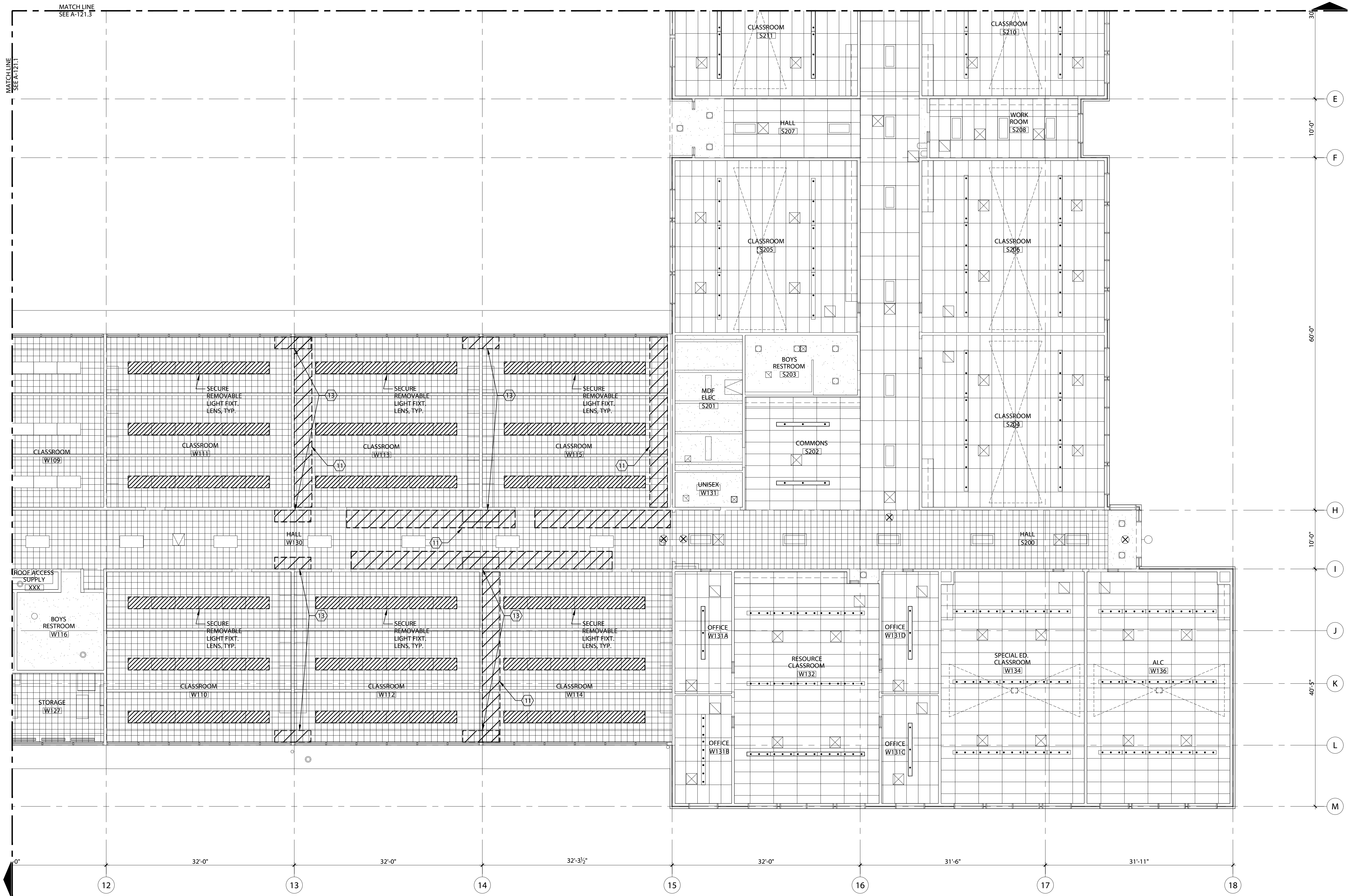
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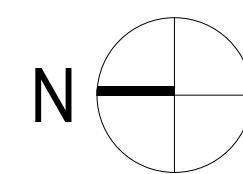
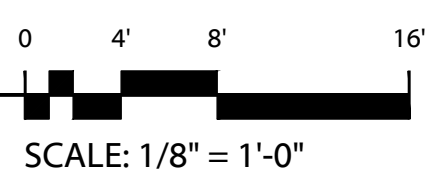
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1 ENLARGED RCP - SECTOR 4 - EXISTING  
SCALE: 1/8" = 1'-0"



GENERAL PROJECT DESCRIPTION

PROJECT SCOPE: REMOVE AND REPLACE THE EXISTING LOW-SLOPE BUILT UP ROOF ASSEMBLY PER ROOFING ASSESSMENT RECOMMENDATIONS WITH NEW BUILT UP ROOF ASSEMBLY WITH ADDED INSULATION. WORK INCLUDES NEW ASSOCIATED FLASHINGS, GUTTERS, DOWNSPOUTS, FASCIAS, CURBS AND COUNTER-FLASHING FOR MECH. EQUIPMENT AND ROOF ACCESS LADDERS. CONTRACTOR TO REPLACE EXISTING ROOF SYSTEMS DAMAGED FROM WATER INTRUSION AS REQUIRED FOR NEW SCOPE OF WORK INCLUDING, BUT NOT LIMITED, TO SHEATHING, INSULATION, CURBS, BLOCKING, ROOF FLASHING, ETC. CONTRACTOR DESIGN AND INSTALL NEW FALL RESTRAINT SYSTEM FOR LOW-SLOPE ROOF ASSEMBLIES IDENTIFIED ON PLANS.

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ROOF PLAN SHEET NOTES

1. ROOF PLAN FOR GENERAL PURPOSE ONLY.
2. INFORMATION RELATING TO THE EXISTING BUILDING IS BASED ON CASUAL OBSERVATION ACTUAL CONDITIONS VERY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
3. GRAPHIC PRESENTATION OF THE AFFECTED AREAS ON DRAWINGS MAY BE SMALLER OR LARGER THAN INDICATED.
4. ONLY MAJOR ELEMENTS ARE SHOWN.
5. ROOF AREA SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF AREAS FOR BIDDING AND CONSTRUCTION PURPOSES.
6. PROVIDE CRICKETS AT MECHANICAL EQUIPMENT, CURBS AND ROOF PENETRATIONS AS REQUIRED.
7. CONTRACTOR RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF ALL UTILITY CONNECTIONS AS REQ'D TO COMPLETE WORK. THIS INCLUDES ANY WORK REQ'D TO EXTEND PIPES, WIRES, ETC. TO MEET MIN. CLEARANCES.
8. THE VENT AND PIPE SIZES NOTED ON THE DRAWINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY WORK.
9. ROOF CANNOT BE LEFT UNPROTECTED FROM THE ELEMENTS FOR A WEEKEND OR HOLIDAY PERIOD. CONTRACTOR MAY LEAVE ROOF UNPROTECTED OVERNIGHT AND ASSUMES ALL RISK FOR ANY DAMAGE CAUSED.
10. CONTRACTOR TO PROVIDE SITE CLEANUP AT THE END OF EACH WORK DAY. CLEANUP SHALL INCLUDE A MAGNET/METAL DETECTOR FOR ALL HARD SURFACES WITHIN 15 FEET OF BUILDING AND ALL LANDSCAPED AREAS.
11. REMOVE EXISTING ROOFING DOWN TO EXISTING SHEATHING UNLESS OTHERWISE NOTED IN ASSEMBLY. REMOVE AND DISPOSE OF ROOFING AS REQ'D BY GOVERNING AUTHORITIES.
12. REPLACE EXISTING ROOF SYSTEM DAMAGED FROM WATER INTRUSION AS REQ'D FOR NEW SCOPE OF WORK INCLUDING, BUT NOT LIMITED TO, SHEATHING, CURBS, BLOCKING, FLASHING, ETC.
13. FOR ADDITIONAL GENERAL DEMOLITION INFORMATION SEE NO. 6 UNDER GENERAL NOTES ON SHEET G-001.

ROOF PLAN LEGEND (MCKINLEY ES)

NOT ALL SYMBOLS MAY BE USED. SIZES AND PROPORTIONS OF ELEMENTS MAY VARY FROM WHAT IS ILLUSTRATED IN LEGEND.

- (N) LOW-SLOPE ROOF - BUILT-UP ROOF ASSEMBLY WITH 2.5" RIGID INSULATION
- (N) LOW-SLOPE ROOF - BUILT-UP ROOF ASSEMBLY WITH 5" RIGID INSULATION
- (N) TAPER INSULATION, SLOPE AS INDICATED
- (E) ROOF ACCESS HATCH. PROVIDE AND INSTALL (N) SAFETY GUARDRAIL WITH GATE.
- (N) PRE-FAB INSUL. METAL CURB MOUNTED FIXED DOME SKYLIGHT, WITH THERMALLY BROKEN ALUM. FRAME, CAST ACRYLIC GLAZING, AND FALL PROTECTION CAGE
- (N) FALL RESTRAINT HLL SYSTEM WITH HORIZONTAL LIFELINE.
- (E) ROOFTOP MECHANICAL UNITS. PROVIDE (N) PMMA LIQUID FLASHING SYSTEM AND COUNTER-FLASHING AT CURBS TO ACCOMMODATE 3" OF ADDED INSULATION - INCLUDE AN ALLOWANCE FOR (N) CURBS, LIFTING OF UNIT, MEP CONNECTIONS
- (E) MECHANICAL. PROVIDE (N) CURBS AND COUNTER-FLASHING TO ACCOMMODATE 3" OF ADDED INSULATION
- (E) STACK VENT. PROVIDE EXTENSIONS AND COUNTER-FLASHING TO ACCOMMODATE 3" OF ADDED INSULATION
- (E) ROOF DRAIN
- (E) OVERFLOW DRAIN
- (E) COMBINATION MAIN ROOF & OVERFLOW DRAIN
- (N) GUTTER WITH DOWNSPOUT
- (N) GUTTER WITH DOWNSPOUT. PROVIDE (N) SPLASH BLOCK
- (N) COPING
- (E) ELECTRICAL. PROVIDE (N) CURBS AND COUNTER-FLASHING AT PENETRATIONS TO ACCOMMODATE 3" OF ADDED INSULATION.
- (E) LIGHT FIXTURE
- (E) ROOF SLOPE DIRECTION
- (N) PRE-FINISHED SHEET METAL COUNTERFLASHING
- (E) PRE-FINISHED SHEET METAL SEISMIC JT FLASHING - CLEAN, RESEAL AND PAINT
- (E) GALV STEEL MECH SCREEN FRAME W/ PRE-FINISHED METAL PANEL - CLEAN, RESEAL AND PAINT

SEISMIC IMPROVEMENTS AND ROOFING REPLACEMENT  
BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL  
1500 NW 185TH AVE.  
BEAVERTON, OR 97006



REVISIONS

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DRAWN BY: SEE

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JOB NO: 22-002 BSD MKES

DATE: 04/22/2022

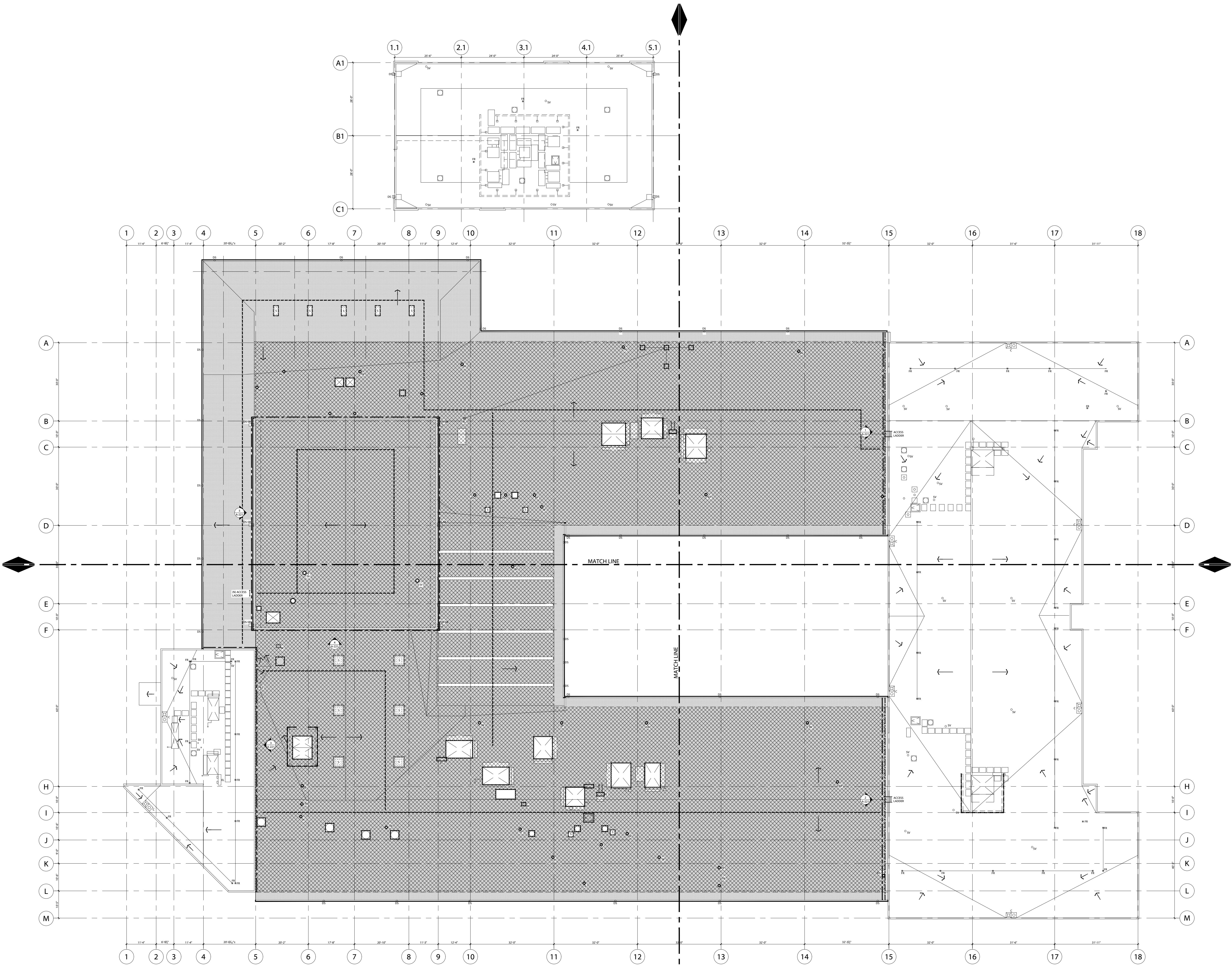
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SHEET TITLE

OVERALL ROOF PLAN

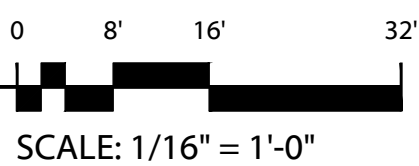
SHEET NO.

A-161

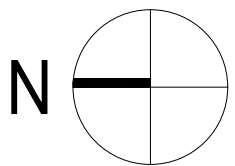


1 OVERALL ROOF PLAN - EXISTING

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

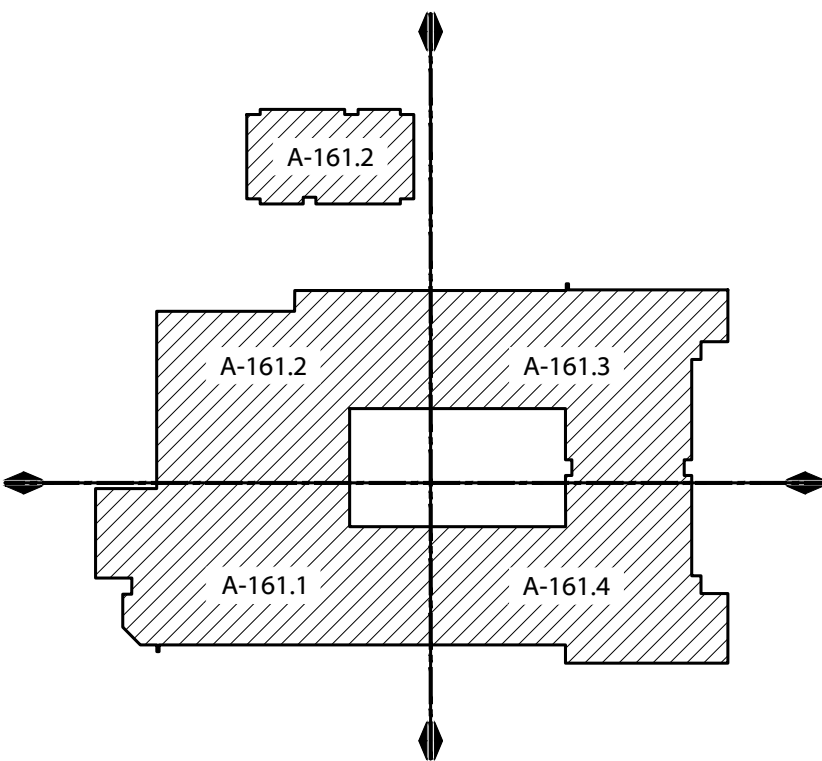


SCALE: 1/16" = 1'-0"



KEY PLAN

SCALE: NOT TO SCALE



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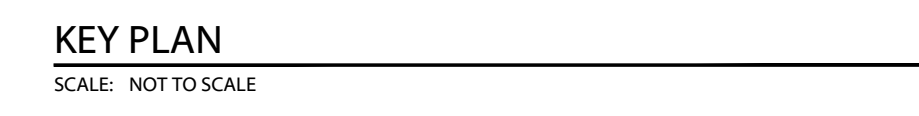
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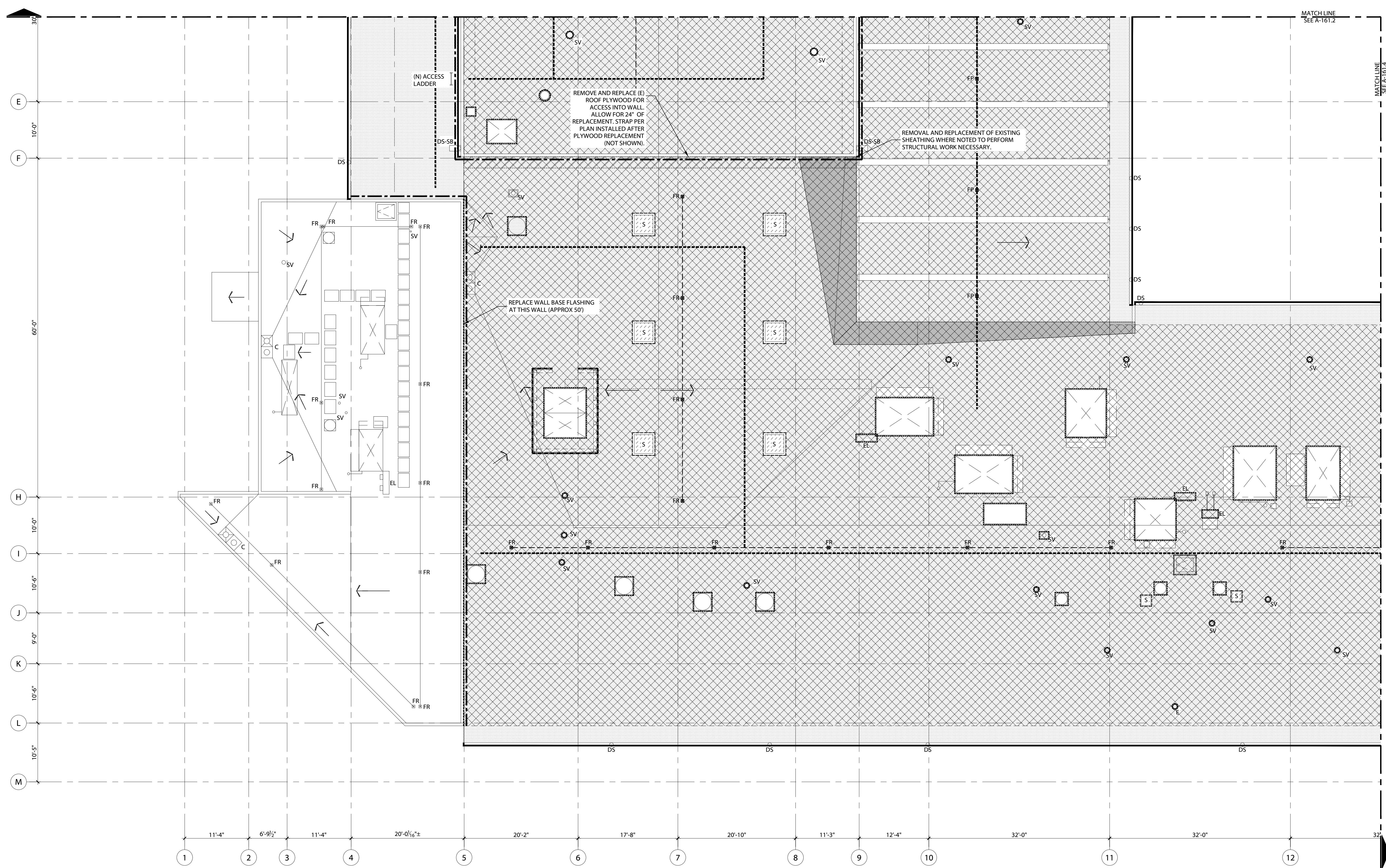
1. ROOF PLAN FOR GENERAL PURPOSE ONLY.
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3. GRAPHIC PRESENTATION OF THE AFFECTED AREAS ON DRAWINGS MAY BE SMALLER OR LARGER THAN INDICATED.
4. ONLY MAJOR ELEMENTS ARE SHOWN.
5. ROOF AREA SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF AREAS FOR BIDDING AND CONSTRUCTION PURPOSES.
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9. ROOF CANNOT BE LEFT UNPROTECTED FROM THE ELEMENTS FOR A WEEKEND OR HOLIDAY PERIOD. CONTRACTOR MAY LEAVE ROOF UNPROTECTED OVERNIGHT AND ASSUMES ALL RISK FOR ANY DAMAGE CAUSED.
10. CONTRACTOR TO PROVIDE SITE CLEANUP AT THE END OF EACH WORK DAY. CLUTTER SHALL INCLUDE A MAGNETIC METAL DETECTOR FOR ALL HARD SURFACES WITHIN 15 FEET OF BUILDING AND ALL LANDSCAPED AREAS.
11. REMOVE EXISTING ROOFING DOWN TO EXISTING SHEATHING UNLESS OTHERWISE NOTED IN ASSEMBLY. REMOVE AND DISPOSE OF ROOFING AS REQ'D. BY GOVERNING AUTHORITIES.
12. REPLACE EXISTING ROOF SYSTEM DAMAGED FROM WATER INTRUSION AS REQ'D FOR NEW SCOPE OF WORK INCLUDING, BUT NOT LIMITED TO, SHEATHING, CURBS, BLOCKING, FLASHING, ETC.
13. FOR ADDITIONAL GENERAL DEMOLITION INFORMATION SEE NO. 6 UNDER GENERAL NOTES ON SHEET G-001.

 (N) LOW-SLOPE ROOF - BUILT-UP ROOF ASSEMBLY WITH 2.5" RIGID INSULATION  
 (N) LOW-SLOPE ROOF - BUILT-UP ROOF ASSEMBLY WITH 5" RIGID INSULATION  
 (N) TAPER INSULATION, SLOPE AS INDICATED  
 (E) ROOF ACCESS HATCH. PROVIDE AND INSTALL 1" SAFETY GUARDRAIL WITH GATE.  
 (N) PRE-FAB INSUL METAL CURB MOUNTED FIXED DOME SKYLIGHT, WITH THERMALLY BROKEN ALUM FRAME, CAST ACRYLIC GLAZING, AND FALL PROTECTION CAGE  
 (N) FALL RESTRAINT HLL SYSTEM WITH HORIZONTAL LIFELINE.  
 (E) ROOFTOP MECHANICAL UNITS. PROVIDE (N) PMMA LIQUID FLASHING SYSTEM AND COUNTER-FLASHING AT CURBS TO ACCOMMODATE 3" OF ADDED INSULATION - INCLUDE AN ALLOWANCE FOR (N) CURBS, LIFTING OF UNIT, MEP CONNECTIONS  
 (E) MECHANICAL. PROVIDE (N) CURBS AND COUNTER-FLASHING TO ACCOMMODATE 3" OF ADDED INSULATION  
 (E) STACK VENT. PROVIDE EXTENSIONS AND COUNTER-FLASHING TO ACCOMMODATE 3" OF ADDED INSULATION  
 (E) ROOF DRAIN  
 (E) OVERFLOW DRAIN  
 (E) COMBINATION MAIN ROOF & OVERFLOW DRAIN  
 (N) GUTTER WITH DOWNSPOUT  
 (N) GUTTER WITH DOWNSPOUT. PROVIDE (N) SPLASH BLOCK  
 (N) COPING  
 (E) ELECTRICAL. PROVIDE (N) CURBS AND COUNTER-FLASHING. AT PENTRATIONS TO ACCOMMODATE 3" OF ADDED INSULATION.  
 (E) LIGHT FIXTURE  
 (E) ROOF SLOPE DIRECTION  
 (N) PRE-FINISHED SHEET METAL COUNTERFLASHING  
 (E) PRE-FINISHED SHEET METAL SEISMIC JT FLASHING - CLEAN, RESEAL AND PAINT  
 (E) GALV STEEL MECH SCREEN FRAME W/ PRE-FINISHED METAL PANEL - CLEAN, RESEAL AND PAINT

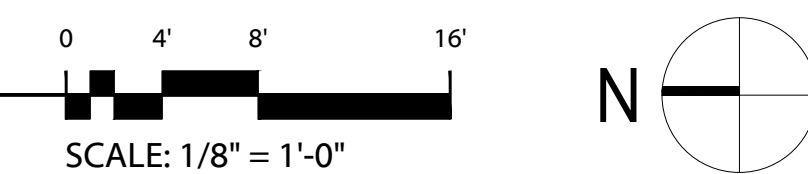
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JOB NO: 22-002 BSD MKES  
DATE: 04/22/2022  
ISSUED FOR: 100% DESIGN DEVELOPMENT  
SHEET TITLE  
ENLARGED ROOF PLAN - SECTOR 1  
SHEET NO.

# A-161.1

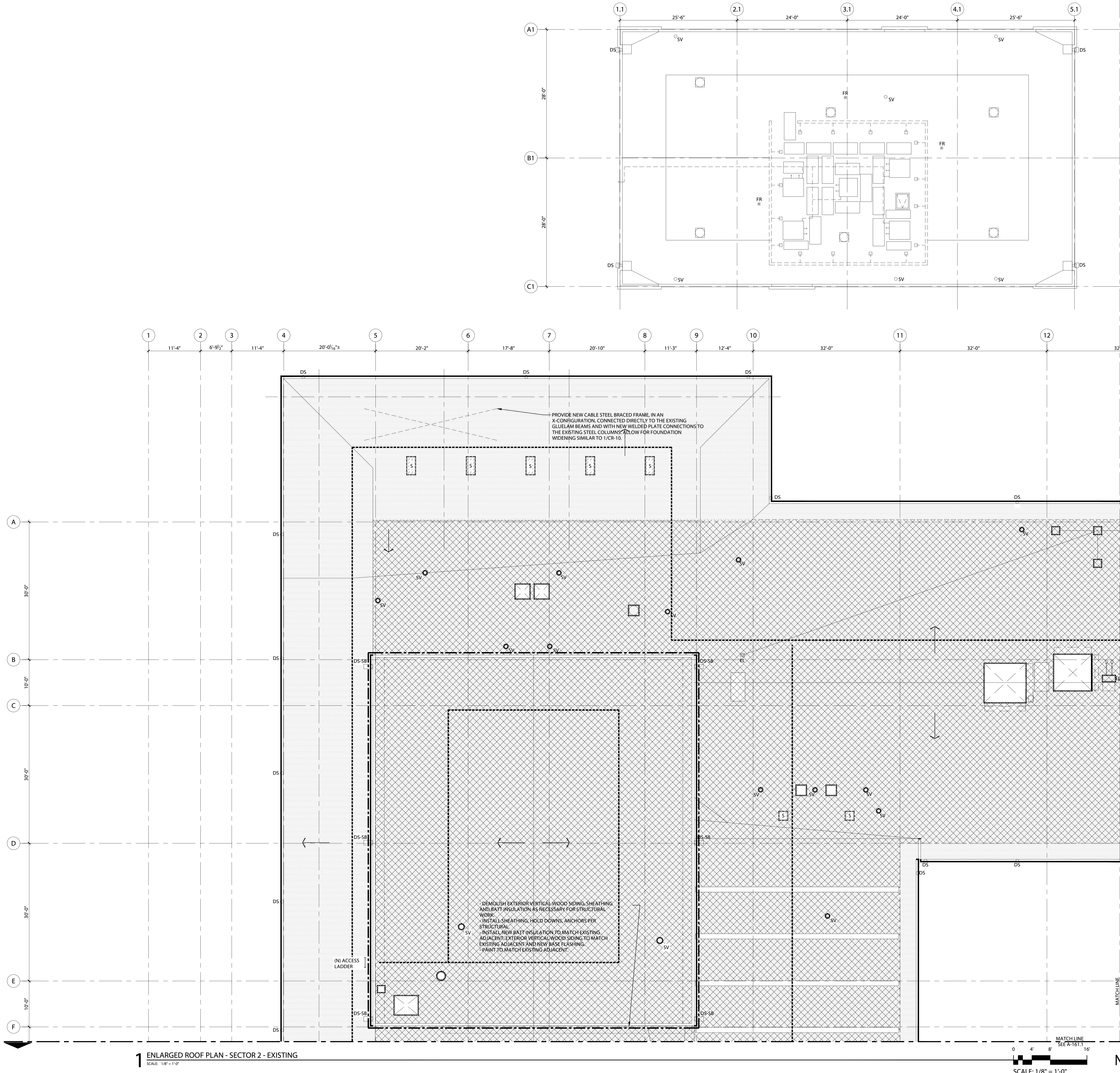


# 1 ENLARGED ROOF PLAN - SECTOR 1 - EXISTING

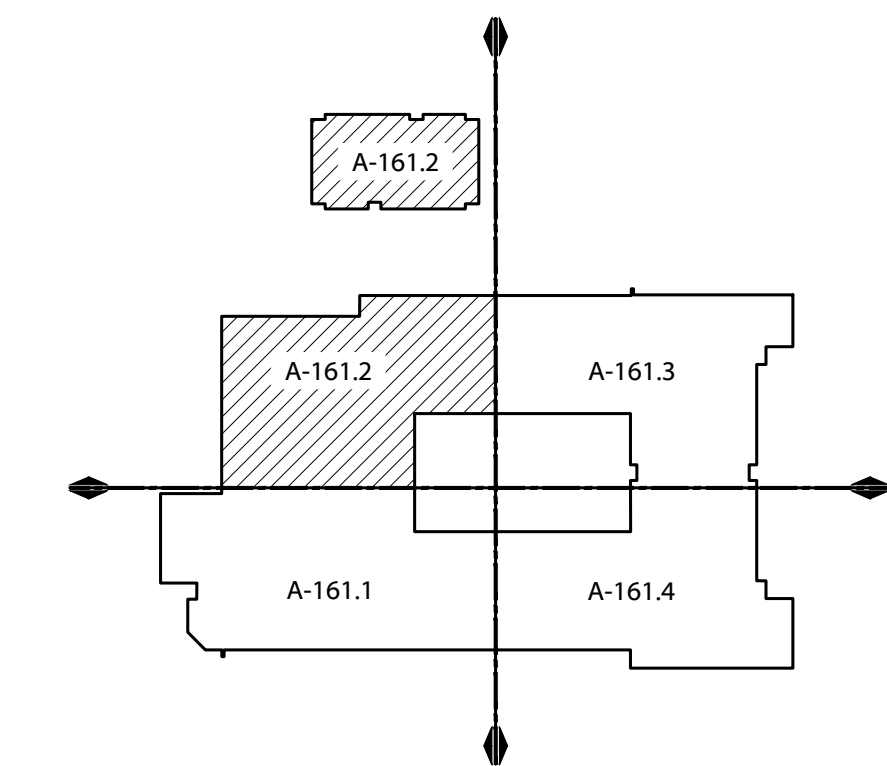
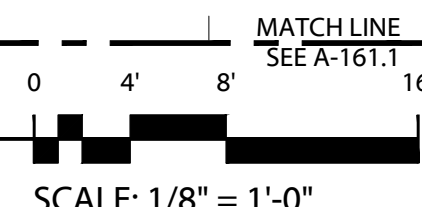


**KEY PLAN**  
SCALE: NOT TO SCALE

S:\Projects\2022 Projects\2-002\_BSD\_Roof Projects\_FES-MKES-NRESF\_Drawings\F2\_Current\CAD\Mckinley\A-161.2\_22-002\_BSD\_MKES\_Roof Plan\_Sector 2.dwg © Plot Date: Apr 22, 2022 © Time: 5:54 PM



1 ENLARGED ROOF PLAN - SECTOR 2 - EXISTING  
SCALE: 1/8" = 1'-0"



KEY PLAN  
SCALE: NOT TO SCALE

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BEAVERTON, OR 97006



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JOB NO: 22-002 BSD MKES  
DATE: 04/22/2022  
ISSUED FOR: 100% DESIGN DEVELOPMENT  
SHEET TITLE  
ENLARGED ROOF PLAN - SECTOR 2  
SHEET NO.

A-161.2

GENERAL PROJECT DESCRIPTION

PROJECT SCOPE: REMOVE AND REPLACE THE EXISTING LOW-SLOPE BUILT UP ROOF ASSEMBLY PER ROOFING ASSESSMENT RECOMMENDATIONS WITH NEW BUILT UP ROOF ASSEMBLY WITH ADDED INSULATION. WORK INCLUDES NEW ASSOCIATED FLASHINGS, GUTTERS, DOWNSPOUTS, FASCIAS, CURBS AND COUNTER-FLASHING FOR MECH. EQUIPMENT AND ROOF ACCESS LADDERS. CONTRACTOR TO REPLACE EXISTING ROOF SYSTEMS DAMAGED FROM WATER INTRUSION AS REQUIRED FOR NEW SCOPE OF WORK INCLUDING, BUT NOT LIMITED, TO SHEATHING, INSULATION, CURBS, BLOCKING, ROOF FLASHING, ETC. CONTRACTOR DESIGN AND INSTALL NEW FALL RESTRAINT SYSTEM FOR LOW-SLOPE ROOF ASSEMBLIES IDENTIFIED ON PLANS.

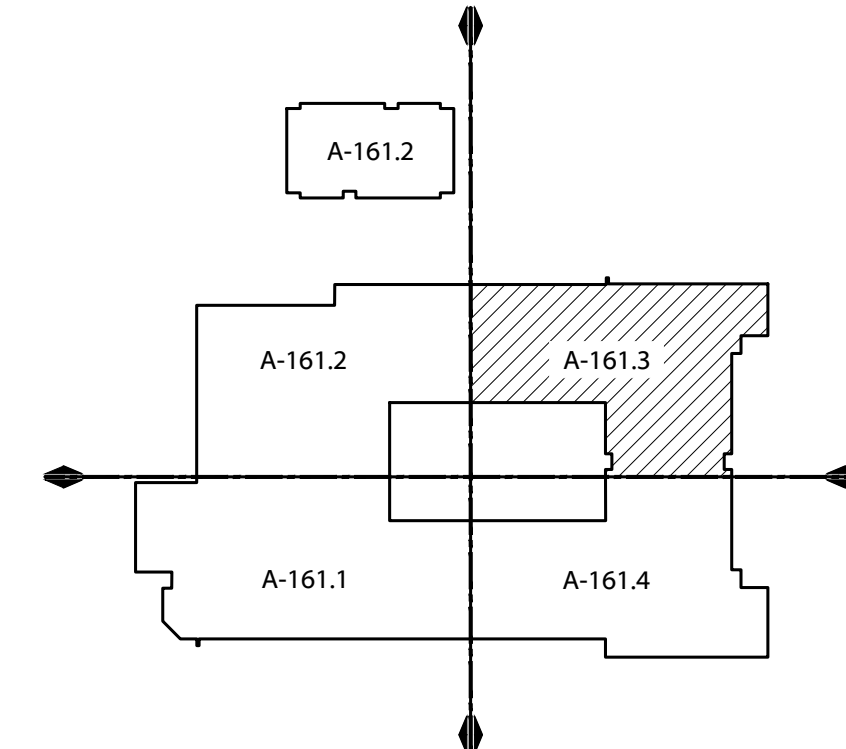
ROOF PLAN SHEET NOTES

1. ROOF PLAN FOR GENERAL PURPOSE ONLY.
2. INFORMATION RELATING TO THE EXISTING BUILDING IS BASED ON CASUAL OBSERVATION. ACTUAL CONDITIONS VERY AND SHELL BE FIELD VERIFIED BY THE CONTRACTOR.
3. GRAPHIC PRESENTATION OF THE AFFECTED AREAS ON DRAWINGS MAY BE SMALLER OR LARGER THAN INDICATED.
4. ONLY MAJOR ELEMENTS ARE SHOWN.
5. ROOF AREA SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF AREAS FOR BIDDING AND CONSTRUCTION PURPOSES.
6. PROVIDE CRICKETS AT MECHANICAL EQUIPMENT, CURBS AND ROOF PENETRATIONS AS REQUIRED.
7. CONTRACTOR RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF ALL UTILITY CONNECTIONS AS REQ'D TO COMPLETE WORK. THIS INCLUDES ANY WORK REQ'D TO EXTEND PIPES, WIRES, ETC. TO MEET MIN. CLEARANCES.
9. THE VENT AND PIPE SIZES NOTED ON THE DRAWINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY WORK.
10. ROOF CANNOT BE LEFT UNPROTECTED FROM THE ELEMENTS FOR A WEEKEND OR HOLIDAY PERIOD. CONTRACTOR MAY LEAVE ROOF UNPROTECTED OVERNIGHT AND ASSUMES ALL RISK FOR ANY DAMAGE CAUSED.
11. CONTRACTOR TO PROVIDE SITE CLEANUP AT THE END OF EACH WORK DAY. CLEANUP SHALL INCLUDE A MAGNET/METAL DETECTOR FOR ALL HARD SURFACES WITHIN 15 FEET OF BUILDING AND ALL LANDSCAPED AREAS.
12. REMOVE EXISTING ROOFING DOWN TO EXISTING SHEATHING UNLESS OTHERWISE NOTED IN ASSEMBLY. REMOVE AND DISPOSE OF ROOFING AS REQ'D BY GOVERNING AUTHORITIES.
11. REPLACE EXISTING ROOF SYSTEM DAMAGED FROM WATER INTRUSION AS REQ'D FOR NEW SCOPE OF WORK INCLUDING, BUT NOT LIMITED TO, SHEATHING, CURBS, BLOCKING, FLASHING, ETC.
12. FOR ADDITIONAL GENERAL DEMOLITION INFORMATION SEE NO. 6 UNDER GENERAL NOTES ON SHEET G-001.

ROOF PLAN LEGEND (MCKINLEY ES)

NOT ALL SYMBOLS MAY BE USED. SIZES AND PROPORTIONS OF ELEMENTS MAY VARY FROM WHAT IS ILLUSTRATED IN LEGEND.

- (N) LOW-SLOPE ROOF - BUILT-UP ROOF ASSEMBLY WITH 2.5" RIGID INSULATION
- (N) LOW-SLOPE ROOF - BUILT-UP ROOF ASSEMBLY WITH 5" RIGID INSULATION
- (N) TAPER INSULATION, SLOPE AS INDICATED
- (E) ROOF ACCESS HATCH. PROVIDE AND INSTALL (N) SAFETY GUARDRAIL WITH GATE.
- (N) PRE-FAB INSUL. METAL CURB MOUNTED FIXED DOME SKYLIGHT, WITH THERMALLY BROKEN ALUM. FRAME, CAST ACRYLIC GLAZING, AND FALL PROTECTION CAGE
- (N) FALL RESTRAINT HLL SYSTEM WITH HORIZONTAL LIFELINE.
- (E) ROOFTOP MECHANICAL UNITS. PROVIDE (N) PMMA LIQUID FLASHING SYSTEM AND COUNTER-FLASHING AT CURBS TO ACCOMMODATE 3" OF ADDED INSULATION - INCLUDE AN ALLOWANCE FOR (N) CURBS, LIFTING OF UNIT, MEP CONNECTIONS TO ACCOMMODATE 3" OF ADDED INSULATION
- (E) MECHANICAL. PROVIDE (N) CURBS AND COUNTER-FLASHING TO ACCOMMODATE 3" OF ADDED INSULATION
- (E) STACK VENT. PROVIDE EXTENSIONS AND COUNTER-FLASHING TO ACCOMMODATE 3" OF ADDED INSULATION
- (E) ROOF DRAIN
- (E) OVERFLOW DRAIN
- (E) COMBINATION MAIN ROOF & OVERFLOW DRAIN
- (N) GUTTER WITH DOWNSPOUT
- (N) GUTTER WITH DOWNSPOUT. PROVIDE (N) SPLASH BLOCK
- (N) COPING
- (E) ELECTRICAL. PROVIDE (N) CURBS AND COUNTER-FLASHING AT PENETRATIONS TO ACCOMMODATE 3" OF ADDED INSULATION.
- (E) LIGHT FIXTURE
- (E) ROOF SLOPE DIRECTION
- (N) PRE-FINISHED SHEET METAL COUNTERFLASHING
- (E) PRE-FINISHED SHEET METAL SEISMIC JT FLASHING - CLEAN, RESEAL AND PAINT
- (E) GALV STEEL MECH SCREEN FRAME W/ PRE-FINISHED METAL PANEL - CLEAN, RESEAL AND PAINT



KEY PLAN  
SCALE: NOT TO SCALE

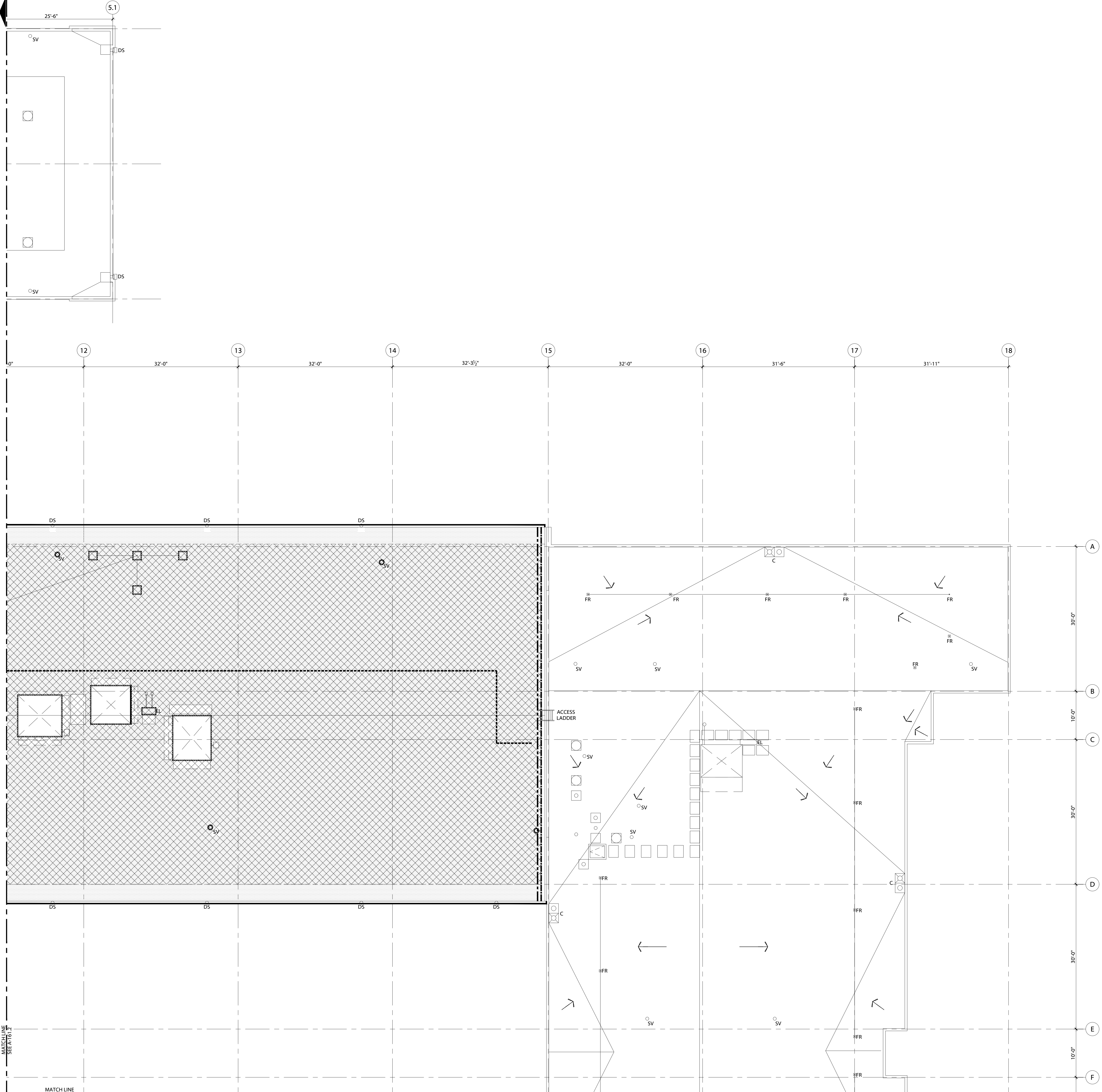
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BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL  
1500 NW 185TH AVE.  
BEAVERTON, OR 97006



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JOB NO: 22-002 BSD MKES  
DATE: 04/22/2022  
ISSUED FOR: 100% DESIGN DEVELOPMENT  
SHEET TITLE  
ENLARGED ROOF PLAN - SECTOR 3  
SHEET NO.

A-161.3



1 ENLARGED ROOF PLAN - SECTOR 3 - EXISTING  
SCALE: 1/8" = 1'-0"

GENERAL PROJECT DESCRIPTION

PROJECT SCOPE: REMOVE AND REPLACE THE EXISTING LOW-SLOPE BUILT UP ROOF ASSEMBLY PER ROOFING ASSESSMENT RECOMMENDATIONS WITH NEW BUILT UP ROOF ASSEMBLY WITH ADDED INSULATION. WORK INCLUDES NEW ASSOCIATED FLASHINGS, GUTTERS, DOWNSPOUTS, FASCIAS, CURBS AND COUNTER-FLASHING FOR MECH. EQUIPMENT AND ROOF ACCESS LADDERS. CONTRACTOR TO REPLACE EXISTING ROOF SYSTEMS DAMAGED FROM WATER INTRUSION AS REQUIRED FOR NEW SCOPE OF WORK INCLUDING, BUT NOT LIMITED, TO SHEATHING, INSULATION, CURBS, BLOCKING, ROOF FLASHING, ETC. CONTRACTOR DESIGN AND INSTALL NEW FALL RESTRAINT SYSTEM FOR LOW-SLOPE ROOF ASSEMBLIES IDENTIFIED ON PLANS.

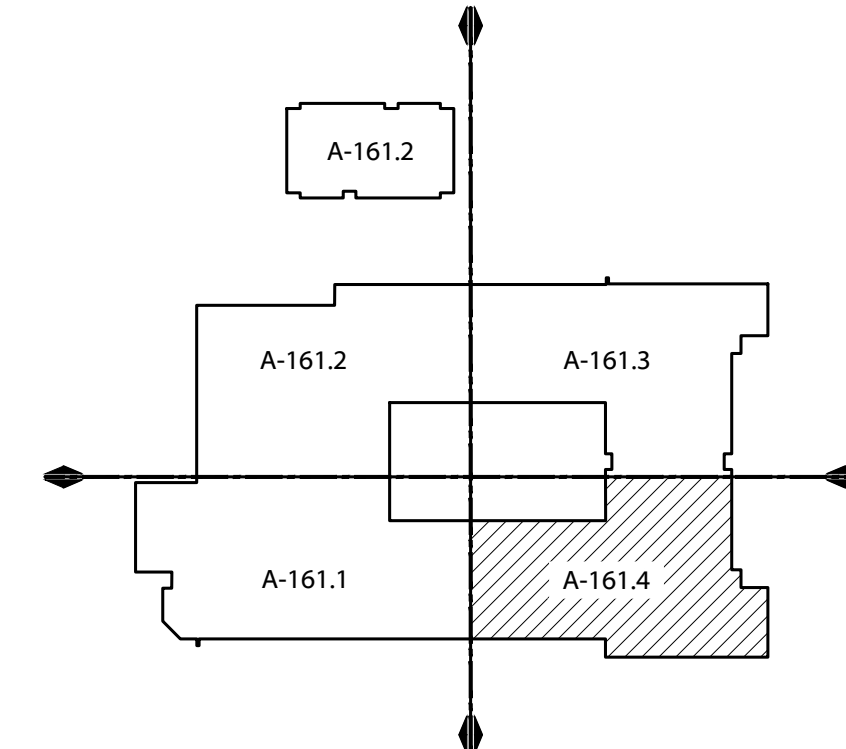
ROOF PLAN SHEET NOTES

1. ROOF PLAN FOR GENERAL PURPOSE ONLY.
2. INFORMATION RELATING TO THE EXISTING BUILDING IS BASED ON CASUAL OBSERVATION ACTUAL CONDITIONS VERY AND SHELL BE FIELD VERIFIED BY THE CONTRACTOR.
3. GRAPHIC PRESENTATION OF THE AFFECTED AREAS ON DRAWINGS MAY BE SMALLER OR LARGER THAN INDICATED.
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5. ROOF AREA SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF AREAS FOR BIDDING AND CONSTRUCTION PURPOSES.
6. PROVIDE CRICKETS AT MECHANICAL EQUIPMENT, CURBS AND ROOF PENETRATIONS AS REQUIRED.
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12. FOR ADDITIONAL GENERAL DEMOLITION INFORMATION SEE NO. 6 UNDER GENERAL NOTES ON SHEET G-001.

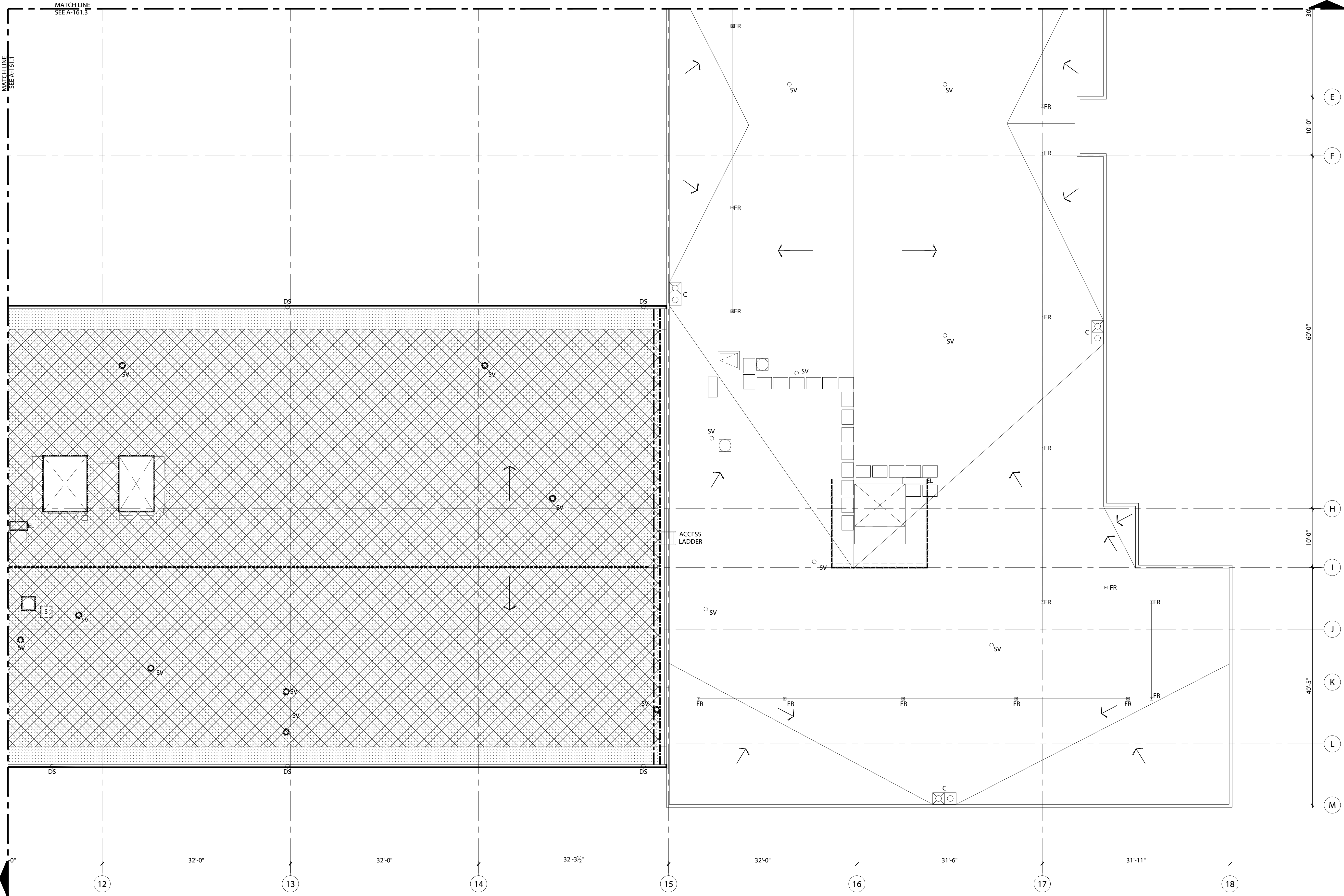
ROOF PLAN LEGEND (MCKINLEY ES)

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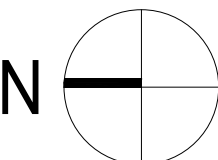
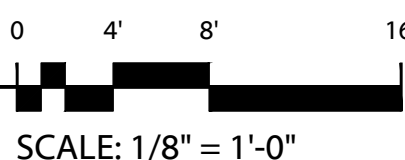
- (N) LOW-SLOPE ROOF - BUILT-UP ROOF ASSEMBLY WITH 2.5" RIGID INSULATION
- (N) LOW-SLOPE ROOF - BUILT-UP ROOF ASSEMBLY WITH 5" RIGID INSULATION
- (N) TAPER INSULATION, SLOPE AS INDICATED
- (E) ROOF ACCESS HATCH. PROVIDE AND INSTALL (N) SAFETY GUARDRAIL WITH GATE.
- (N) PRE-FAB INSUL. METAL CURB MOUNTED FIXED DOME SKYLIGHT, WITH THERMALLY BROKEN ALUM FRAME, CAST ACRYLIC GLAZING, AND FALL PROTECTION CAGE
- (N) FALL RESTRAINT HLL SYSTEM WITH HORIZONTAL LIFELINE.
- (E) ROOFTOP MECHANICAL UNITS. PROVIDE (N) PMMA LIQUID FLASHING SYSTEM AND COUNTER-FLASHING AT CURBS TO ACCOMMODATE 3" OF ADDED INSULATION - INCLUDE AN ALLOWANCE FOR (N) CURBS, LIFTING OF UNIT, MEP CONNECTIONS
- (E) MECHANICAL. PROVIDE (N) CURBS AND COUNTER-FLASHING TO ACCOMMODATE 3" OF ADDED INSULATION
- (E) STACK VENT. PROVIDE EXTENSIONS AND COUNTER-FLASHING TO ACCOMMODATE 3" OF ADDED INSULATION
- (E) ROOF DRAIN
- (E) OVERFLOW DRAIN
- (E) COMBINATION MAIN ROOF & OVERFLOW DRAIN
- (N) GUTTER WITH DOWNSPOUT
- (N) GUTTER WITH DOWNSPOUT. PROVIDE (N) SPLASH BLOCK
- (N) COPING
- (E) ELECTRICAL. PROVIDE (N) CURBS AND COUNTER-FLASHING AT PENETRATIONS TO ACCOMMODATE 3" OF ADDED INSULATION.
- (E) LIGHT FIXTURE
- (E) ROOF SLOPE DIRECTION
- (N) PRE-FINISHED SHEET METAL COUNTERFLASHING
- (E) PRE-FINISHED SHEET METAL SEISMIC JT FLASHING - CLEAN, RESEAL AND PAINT
- (E) GALV STEEL MECH SCREEN FRAME W/ PRE-FINISHED METAL PANEL - CLEAN, RESEAL AND PAINT



KEY PLAN  
SCALE: NOT TO SCALE



1 ENLARGED ROOF PLAN - SECTOR 4 - EXISTING  
SCALE: 1/8" = 1'-0"



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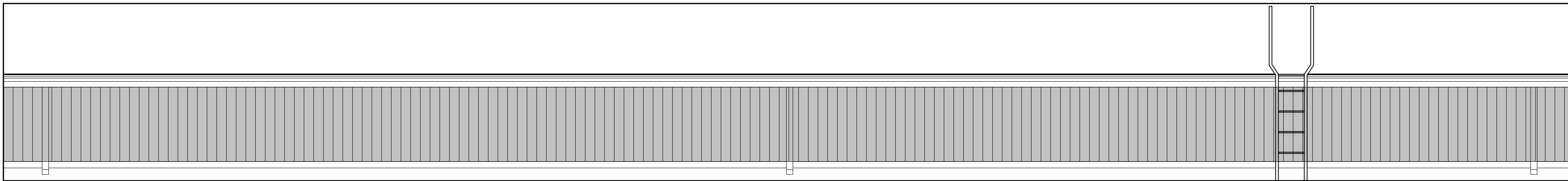
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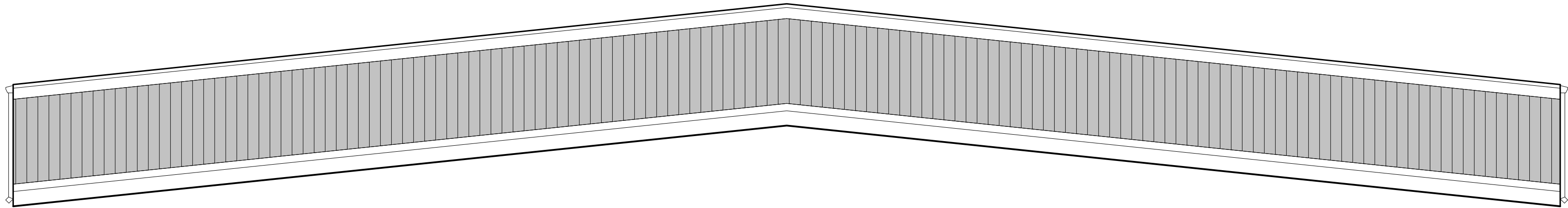
REVISIONS		
No.	Description	Date

DRAWN BY: SEE  
CHECKED BY: SEE  
JOB NO: 22-002 BSD Mikes  
DATE: 04/22/2022  
ISSUED FOR: 100% DESIGN DEVELOPMENT  
SHEET TITLE  
ENLARGED ROOF PLAN - SECTOR 4  
SHEET NO.

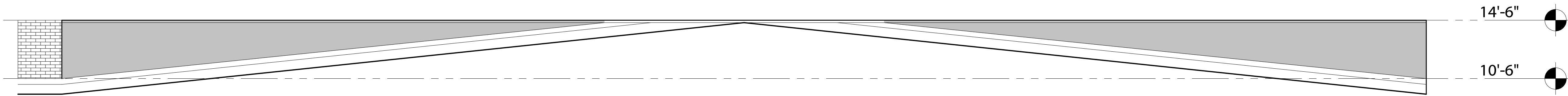
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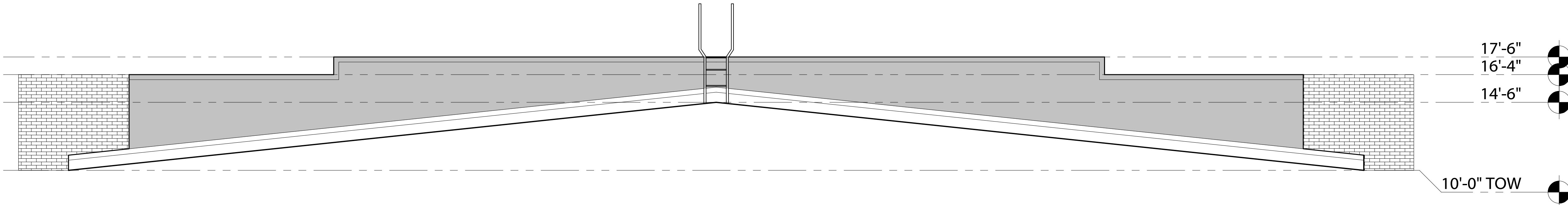
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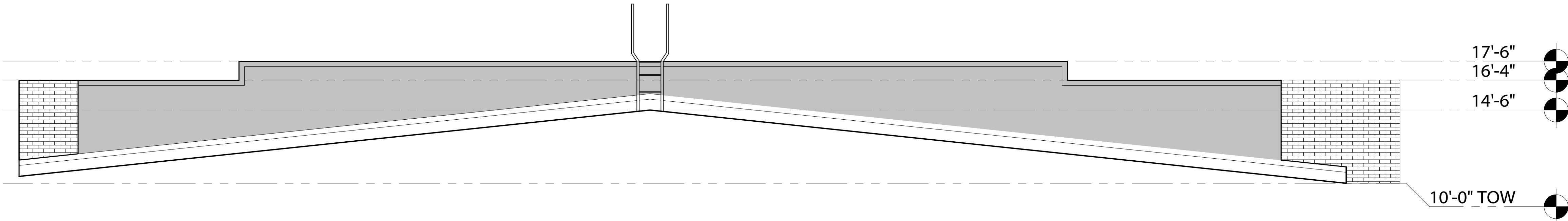
4 EXTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



3 EXTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



2 EXTERIOR ELEVATION  
SCALE: 1/4" = 1'-0"



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

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SEISMIC IMPROVEMENTS AND ROOFING REPLACEMENT  
BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL  
1500 NW 185TH AVE.  
BEAVERTON, OR 97006



REVISIONS		
No.	Description	Date

DRAWN BY: SEE  
CHECKED BY: SEE  
JOB NO: 22-002 BSD MKE  
DATE: 04/22/2022  
ISSUED FOR: 100% DESIGN DEVELOPMENT  
SHEET TITLE  
EXTERIOR ELEVATIONS  
SHEET NO.

A-221

S:\Projects\2023 Projects\22-002\_BSD\_Roof Projects\_FEE-MKE-NRESF\_Drawing\F2\_Current\CAD\MCKinley\A-221\_22-002\_BSD\_MKE\_Exterior Elevations.dwg © Plot Date: Apr 22 22 © Time: 5:54 PM

EXISTING FLOOR PLAN KEY NOTES

NOT ALL NOTES MAY BE USED.

NON-STRUCTURAL SCOPE  
GENERAL NOTES TYPICAL ALL SHEETS: WORK TO OCCUR ON SAME SIDE OF WALL AS TAG UNLESS NOTED OTHERWISE. ALL EXPOSED EXTERIOR OR SUB-GRADE STEEL TO BE HOT-DIP GALVANIZED.

- (1A) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD, RUBBER BASE AND 12" STRIP OF CARPET.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- PROTECT EXISTING EXPOSED DUCT.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND CARPET WHERE REMOVED TO MATCH EXISTING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL (2) 4" TACK BOARDS AND (2) 8" WHITE BOARDS, TYP. IN CLASSROOMS AND WHERE NOTED.  
- AT CLASSROOMS, APPROX. 4" OF SHELVES AND A STEAM RADIATOR UNDER WINDOW TO BE SALVAGED AND REINSTALLED FOR WORK TO OCCUR (TYP.).  
- INSTALL NEW WOOD

- (1A\*) - SAME AS ABOVE BUT INCLUDES SALVAGING AND REINSTALLING BOOKSHELVES (APPROX 8'-0" AT EACH LOCATION).

- (A\*) - SAME AS ABOVE BUT INCLUDES REMOVE, SALVAGE AND REINSTALL STEAM RADIATOR (APPROX 8'-0").

- (1B) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD OR GYPSUM WALL BOARD SURFACE, RUBBER BASE AND 12" STRIP OF VINYL TILE.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND VINYL FLOOR TILE WHERE REMOVED TO MATCH EXISTING.  
- INSTALL HARDWOOD TRIM, PAINTED TO MATCH ADJACENT WALL AT EACH SIDE OF NEW SHEAR WALL WORK.  
- MODIFY DOOR FRAMES TO ACCOMMODATE NEW WALL WIDTH FROM ADDITIONAL SHEATHING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL TACK RAILS AND TACKBOARDS WHERE OCCURRING.

- (1B\*) - SAME AS ABOVE BUT INCLUDES REMOVE, SALVAGE AND REINSTALL STEAM RADIATOR (APPROX 8'-0").

- (B\*) - SAME AS 1B BUT INCLUDES SALVAGE AND REINSTALL (3) 8'-0" TACKBOARDS.

- (2A) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH PLASTER WALL AND BEAD BOARD VENEER, APPROXIMATELY 16'-0" HIGH.  
- DEMOLISH 12" STRIP OF TECTUM AT CEILING AND ENTIRE WALL PANEL ABOVE BEAD BOARD, APPROXIMATELY 4'-0" HIGH.  
- REMOVE AND SALVAGE BASKETBALL HOOP AND SUPPORTS (IS TOTAL IN GYM).  
- DEMOLISH VINYL FLOOR TILE, AND RUBBER BASE BOARD WHERE NECESSARY FOR STRUCTURAL WORK BELOW FLOOR.  
- SAWCUT AND DEMOLISH CONCRETE SLAB AND EXCAVATE AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS, SLAB ON GRADE AND FOUNDATION STRENGTHENING PER STRUCTURAL.  
- INSTALL NEW GYPSUM BOARD WITH PAINTED WOOD BEAD-BOARD VENEER.  
- INSTALL NEW TECTUM WALL PANEL BETWEEN CEILING AND NEW BEAD BOARD VENEER AND WHERE REMOVED FROM CEILING.  
- INSTALL NEW VINYL FLOOR TILE AND RUBBER BASE BOARD TO MATCH EXISTING.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL CLIMBING WALL AND PROJECTOR SCREEN WHERE OCCURRING.

- (2B) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD OR GYPSUM WALL BOARD SURFACE, RUBBER BASE AND 24" STRIP OF VINYL TILE.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- SAWCUT AND DEMOLISH CONCRETE SLAB AND EXCAVATE AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS, SLAB ON GRADE AND FOUNDATION STRENGTHENING PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND VINYL FLOOR TILE WHERE REMOVED TO MATCH EXISTING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.

- (2B\*) - SAME AS ABOVE BUT NOTE: WORK AT THIS LOCATION TO BE PERFORMED IN CONJUNCTION WITH SCOPE ABOVE THE ROOF LINE. SEE ITEM 3.
- (3) - DEMOLISH EXTERIOR VERTICAL WOOD SIDING, SHEATHING AND BATT INSULATION AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW BATT INSULATION TO MATCH EXISTING ADJACENT, EXTERIOR VERTICAL WOOD SIDING TO MATCH EXISTING ADJACENT AND NEW BASE FLASHING.  
- PAINT TO MATCH EXISTING ADJACENT.

- (3A) SAME AS ABOVE BUT INCLUDES:  
- DEMOLISH FLASHING AT EDGE OF ROOF.  
- INSTALL NEW FLASHING AT EDGE OF ROOF. PATCH ROOFING MEMBRANE AT ROOF EDGE AS NECESSARY

- (4) - REMOVE 24" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- PROTECT EXISTING EXPOSED DUCT.  
- INSTALL STRAP PER STRUCTURAL.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
NOTE: ALL WORK TO BE PERFORMED ON ONE SIDE OF THE WALL AND, WHEREVER POSSIBLE, THE SAME SIDE OF THE WALL AS THE SHEAR WALL IMPROVEMENTS BELOW.

- (5) - REMOVAL AND REPLACEMENT OF EXISTING SHEATHING WHERE NOTED TO PERFORM STRUCTURAL WORK NECESSARY.

- (6) - DEMOLISH ROOFING MEMBRANE AND INSULATION WHERE NEW SHEATHING IS REQUIRED PER STRUCTURAL.  
REMOVE ROOFING BALLAST.  
- SALVAGE AND REINSTALL MECHANICAL EQUIPMENT AND ELECTRICAL ITEMS.  
- DEMOLISH EXISTING ROOF DRAINS AND INSTALL NEW ROOF DRAINS AFTER STRUCTURAL WORK.  
- INSTALL NEW SHEATHING OVERLAY OR RE-NAIL SHEATHING PER STRUCTURAL.  
- INSTALL NEW ROOFING MEMBRANE, INSULATION, COVERBOARD AND FLASHING.

- (7) - REMOVE 36"X36" SQUARE OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- INSTALL HSS, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- PAINT ALL EXPOSED STEEL WITH A HIGH PERFORMANCE COATING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.

FIRE EXTINGUISHER

EXIT SIGN

PAPER TOWEL DISPENSER

SOAP DISPENSER

FIRE ALARM

OUTLET

SPRINKLERS ENTERING WALL

VENT

CLOCK

SPEAKER/INTERCOM

LIGHT SWITCH

WATER FOUNTAIN

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SEISMIC IMPROVEMENTS AND ROOFING REPLACEMENT  
BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL  
1500 NW 185TH AVE.  
BEAVERTON, OR 97006



REVISIONS

No.	Description	Date

DRAWN BY: SEE

CHECKED BY: SEE

JOB NO: 22-002 BSD MKES

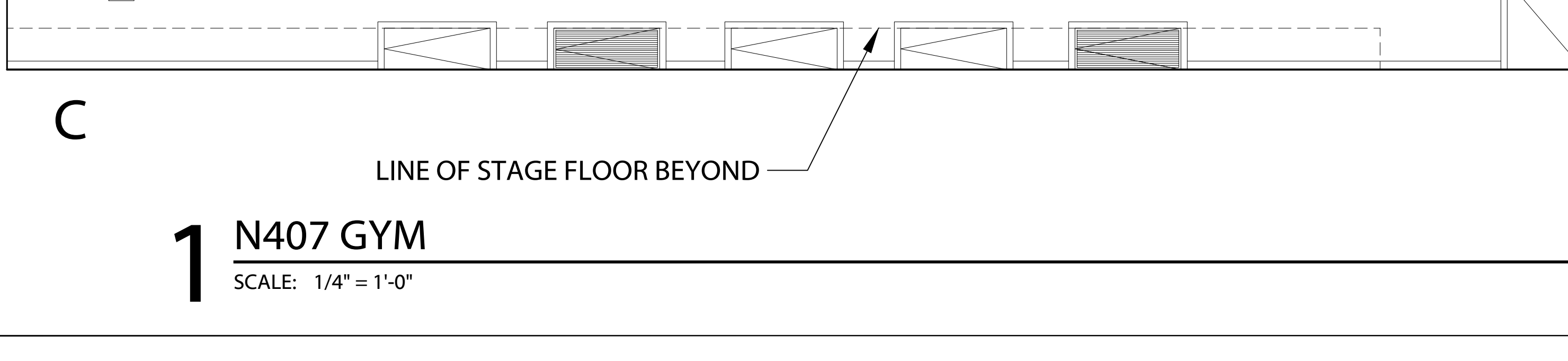
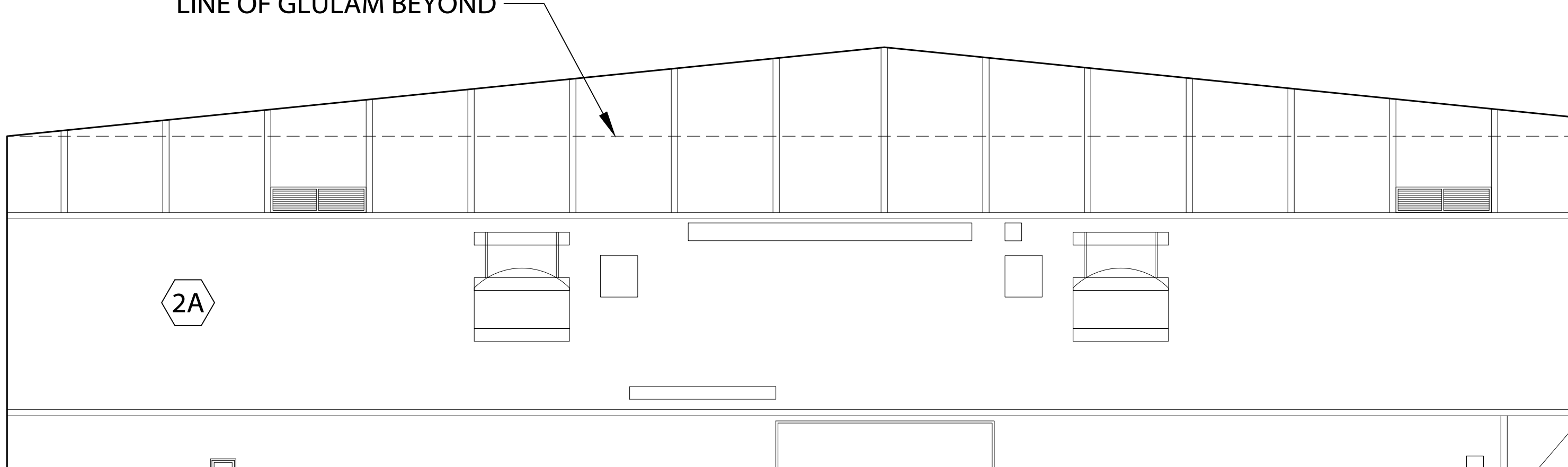
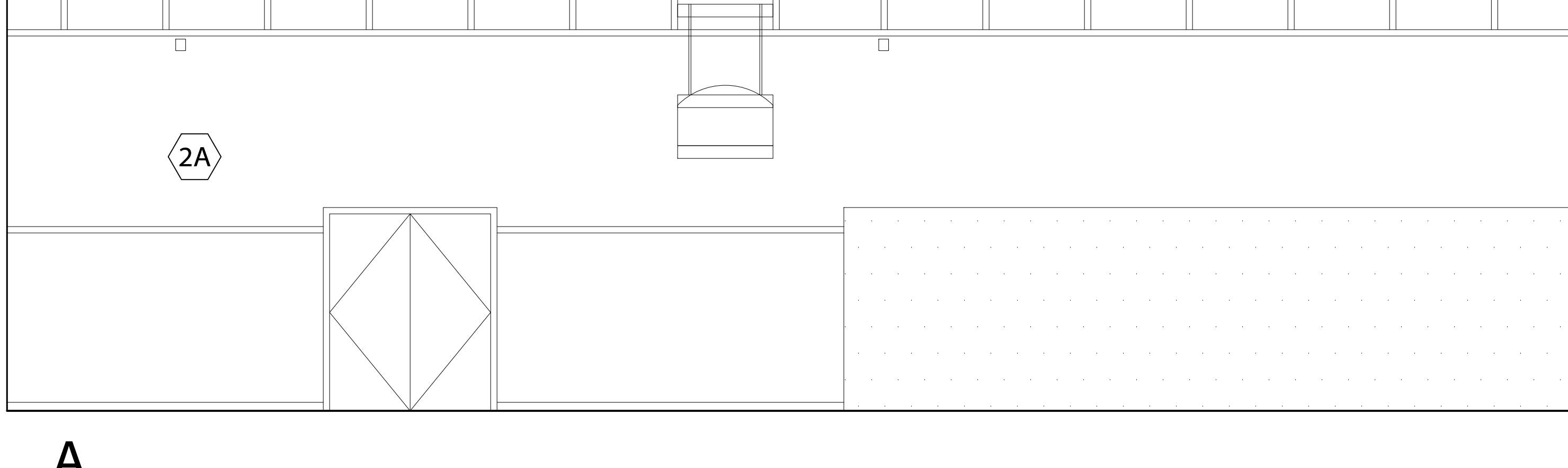
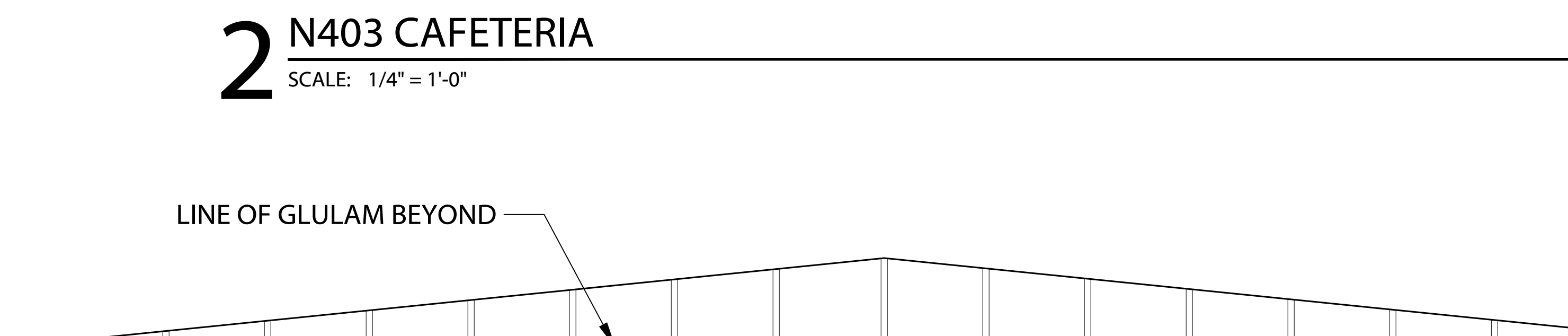
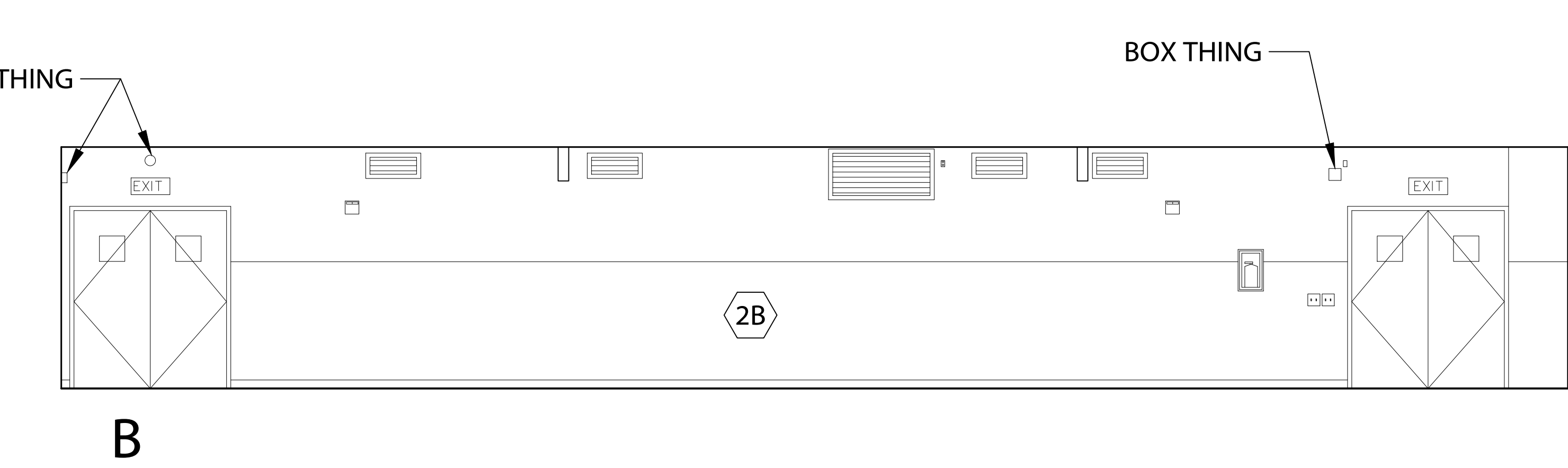
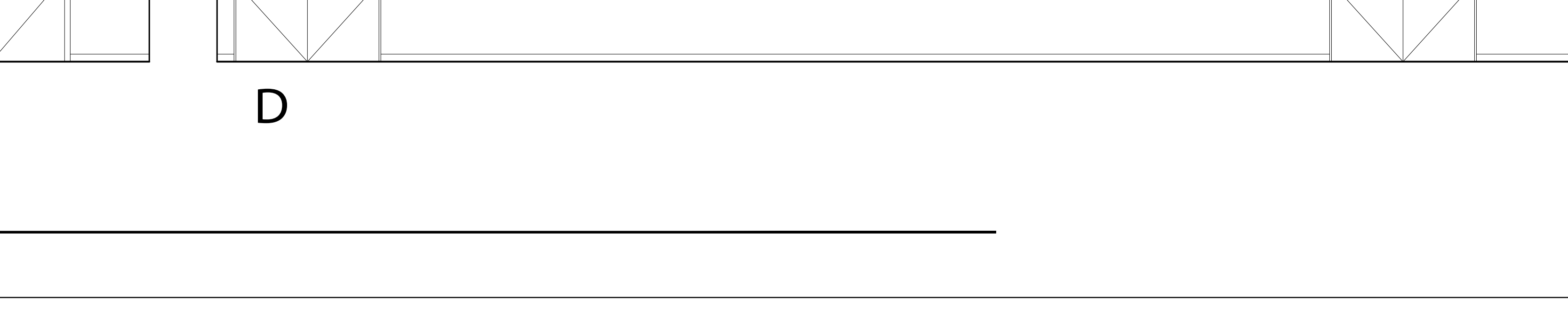
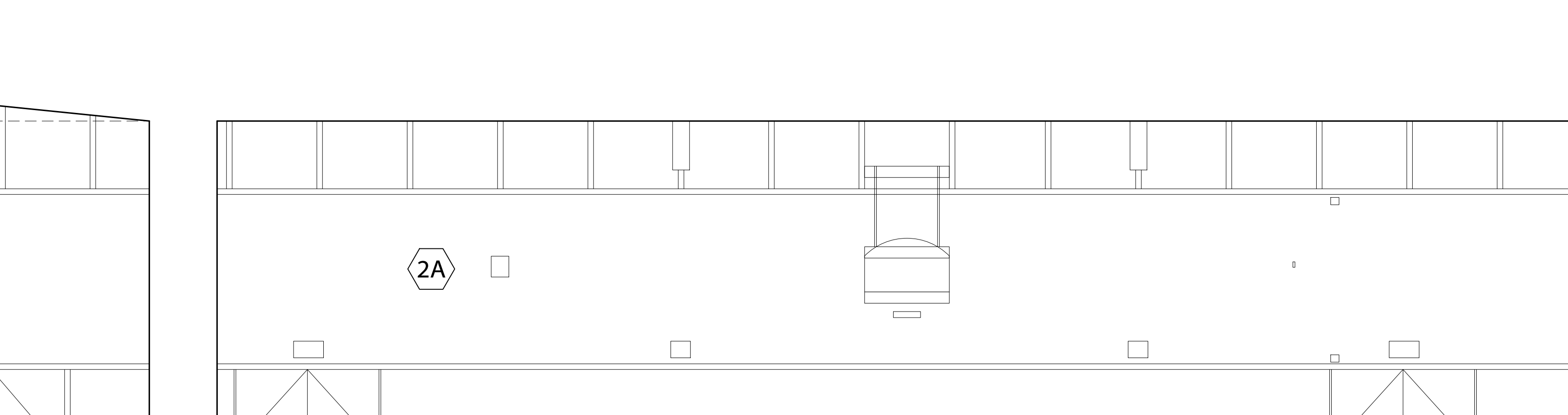
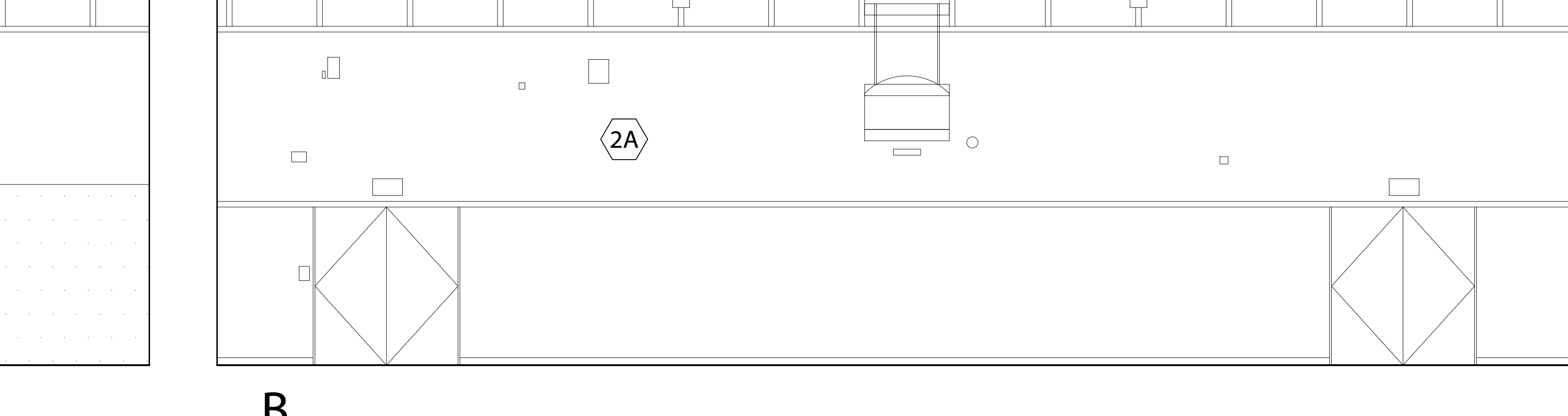
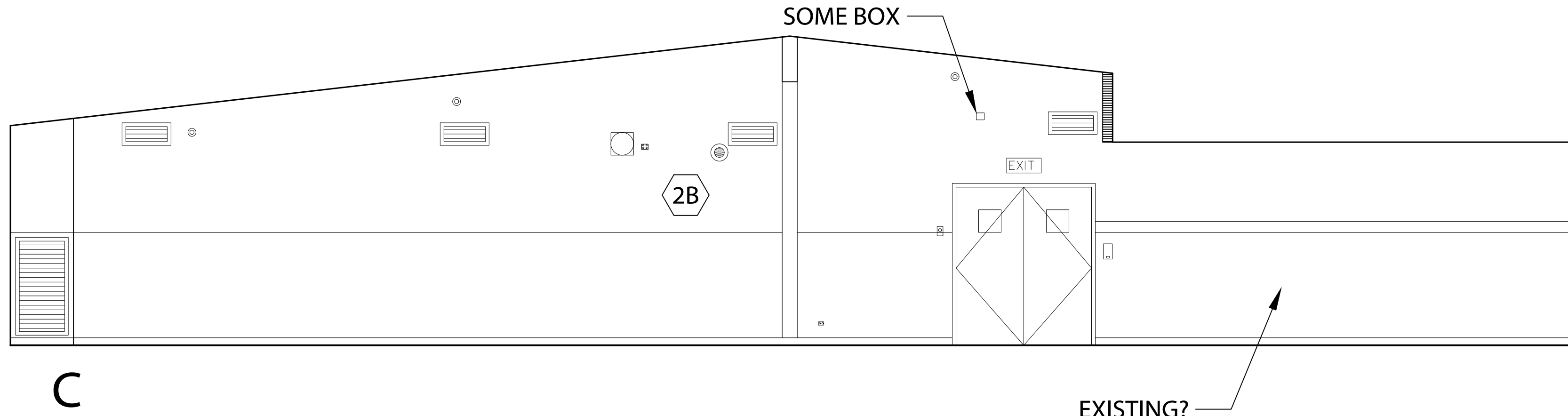
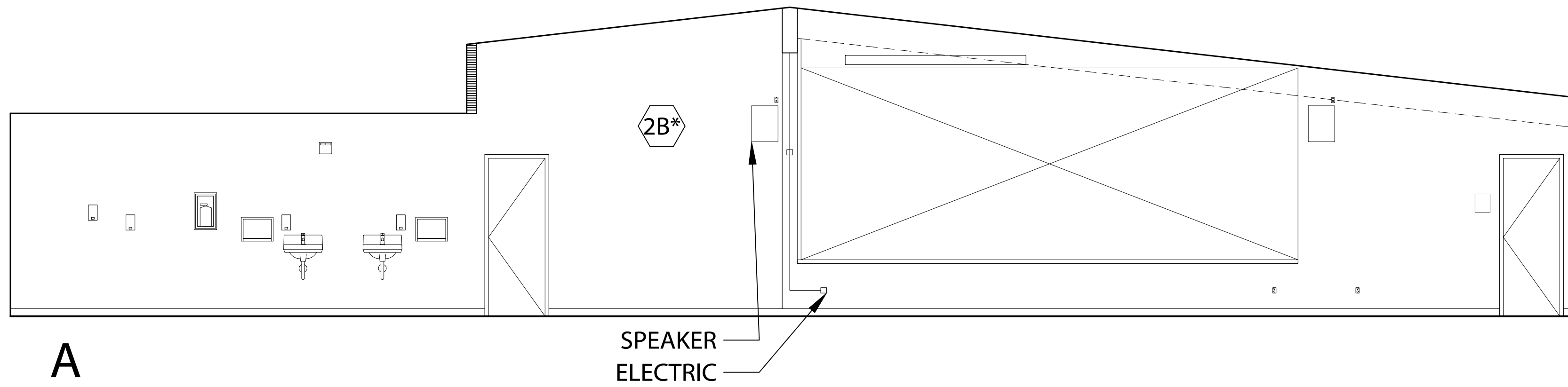
DATE: 04/22/2022

ISSUED FOR: 100% DESIGN DEVELOPMENT

SHEET TITLE

INTERIOR ELEVATIONS

A-222



N403 CAFETERIA

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

N407 GYM

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

EXISTING FLOOR PLAN KEY NOTES

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NON-STRUCTURAL SCOPE  
GENERAL NOTES TYPICAL ALL SHEETS: WORK TO OCCUR ON SAME SIDE OF WALL AS TAG UNLESS NOTED OTHERWISE. ALL EXPOSED EXTERIOR OR SUB-GRADE STEEL TO BE HOT-DIP GALVANIZED.

- (1A) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD, RUBBER BASE AND 12" STRIP OF CARPET.  
- REMOVE 36" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- PROTECT EXISTING EXPOSED DUCT.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW GYPSUM WALL BOARD AND VINYL WALL COVERING, RUBBER BASE AND CARPET WHERE REMOVED TO MATCH EXISTING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL (2) 4' TACK BOARDS AND (2) 8' WHITE BOARDS, TYP. IN CLASSROOMS AND WHERE NOTED.  
- AT CLASSROOMS, APPROX. 4' OF SHELVES AND A STEAM RADIATOR UNDER WINDOW TO BE SALVAGED AND REINSTALLED FOR WORK TO OCCUR (TYP.).  
- INSTALL NEW WOOD

- (1A\*) - SAME AS ABOVE BUT INCLUDES SALVAGING AND REINSTALLING BOOKSHELVES (APPROX 8'-0" AT EACH LOCATION).

- (A\*) - SAME AS ABOVE BUT INCLUDES REMOVE, SALVAGE AND REINSTALL STEAM RADIATOR (APPROX 8'-0").

- (1B) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
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- MODIFY DOOR FRAMES TO ACCOMMODATE NEW WALL WIDTH FROM ADDITIONAL SHEATHING.  
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- (1B\*) - SAME AS ABOVE BUT INCLUDES REMOVE, SALVAGE AND REINSTALL STEAM RADIATOR (APPROX 8'-0").

- (B\*) - SAME AS 1B BUT INCLUDES SALVAGE AND REINSTALL (3) 8'-0" TACKBOARDS.

- (2A) - REMOVE AND SALVAGE MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES FROM WALL.  
- DEMOLISH VINYL COVERED FIBERBOARD OR GYPSUM WALL BOARD SURFACE, RUBBER BASE AND BEAD BOARD VENEER, APPROXIMATELY 16'-0" HIGH.  
- DEMOLISH 12" STRIP OF TECTUM AT CEILING AND ENTIRE WALL PANEL ABOVE BEAD BOARD, APPROXIMATELY 4'-0" HIGH.  
- REMOVE AND SALVAGE BASKETBALL HOOP AND SUPPORTS (IS TOTAL IN GYM).  
- DEMOLISH VINYL FLOOR TILE, AND RUBBER BASE BOARD WHERE NECESSARY FOR STRUCTURAL WORK BELOW FLOOR.  
- SAWCUT AND DEMOLISH CONCRETE SLAB AND EXCAVATE AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS, SLAB ON GRADE AND FOUNDATION STRENGTHENING PER STRUCTURAL.  
- REINSTALL NEW GYPSUM BOARD WITH PAINTED WOOD BEAD-BOARD VENEER.  
- INSTALL NEW TECTUM WALL PANEL BETWEEN CEILING AND NEW BEAD BOARD VENEER AND WHERE REMOVED FROM CEILING.  
- INSTALL NEW VINYL FLOOR TILE AND RUBBER BASE BOARD TO MATCH EXISTING.  
- REINSTALL MISCELLANEOUS ELECTRICAL AND FIRE ALARM CONDUITS AND DEVICES.  
- SALVAGE AND REINSTALL CLIMBING WALL AND PROJECTOR SCREEN WHERE OCCURRING.

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- SAWCUT AND DEMOLISH CONCRETE SLAB AND EXCAVATE AS NECESSARY FOR STRUCTURAL WORK.  
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- (2B\*) - SAME AS ABOVE BUT NOTE: WORK AT THIS LOCATION TO BE PERFORMED IN CONJUNCTION WITH SCOPE ABOVE THE ROOF LINE. SEE ITEM 3.

- (3) - DEMOLISH EXTERIOR VERTICAL WOOD SIDING, SHEATHING AND BATT INSULATION AS NECESSARY FOR STRUCTURAL WORK.  
- INSTALL SHEATHING, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- INSTALL NEW BATT INSULATION TO MATCH EXISTING ADJACENT, EXTERIOR VERTICAL WOOD SIDING TO MATCH EXISTING ADJACENT AND NEW BASE FLASHING.  
- PAINT TO MATCH EXISTING ADJACENT.

- (3A) SAME AS ABOVE BUT INCLUDES:  
- DEMOLISH FLASHING AT EDGE OF ROOF.  
- INSTALL NEW FLASHING AT EDGE OF ROOF. PATCH ROOFING MEMBRANE AT ROOF EDGE AS NECESSARY.

- (4) - REMOVE 24" STRIP OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- PROTECT EXISTING EXPOSED DUCT.  
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- (5) - REMOVAL AND REPLACEMENT OF EXISTING SHEATHING WHERE NOTED TO PERFORM STRUCTURAL WORK NECESSARY.

- (6) - DEMOLISH ROOFING MEMBRANE AND INSULATION WHERE NEW SHEATHING IS REQUIRED PER STRUCTURAL.  
REMOVE ROOFING BALLAST.  
- SALVAGE AND REINSTALL MECHANICAL EQUIPMENT AND ELECTRICAL ITEMS.  
- DEMOLISH EXISTING ROOF DRAINS AND INSTALL NEW ROOF DRAINS AFTER STRUCTURAL WORK.  
- INSTALL NEW SHEATHING OVERLAY OR RE-NAIL SHEATHING PER STRUCTURAL.  
- INSTALL NEW ROOFING MEMBRANE, INSULATION, COVERBOARD AND FLASHING.

- (7) - REMOVE 36"x36" SQUARE OF GLUE UP 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AS REQUIRED TO PERFORM STRUCTURAL WORK.  
- INSTALL HSS, HOLD DOWNS, ANCHORS PER STRUCTURAL.  
- PAINT ALL EXPOSED STEEL WITH A HIGH PERFORMANCE COATING.  
- INSTALL 12X12 ACOUSTICAL CEILING TILES AND GYPSUM BOARD CEILING AFTER STRUCTURAL WORK IS PERFORMED.

FIRE EXTINGUISHER

EXIT SIGN

PAPER TOWEL DISPENSER

SOAP DISPENSER

FIRE ALARM

OUTLET

SPRINKLERS ENTERING WALL

VENT

CLOCK

SPEAKER/INTERCOM

LIGHT SWITCH

WATER FOUNTAIN

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DESIGN GROUP  
ARCHITECTURE & ENGINEERING, INC.

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SEISMIC IMPROVEMENTS AND ROOFING REPLACEMENT  
BEAVERTON SCHOOL DISTRICT  
MCKINLEY ELEMENTARY SCHOOL  
1500 NW 185TH AVE.  
BEAVERTON, OR 97006



REVISIONS

No.	Description	Date

DRAWN BY: SEE

CHECKED BY: SEE

JOB NO: 22-002 BSD MKES

DATE: 04/22/2022

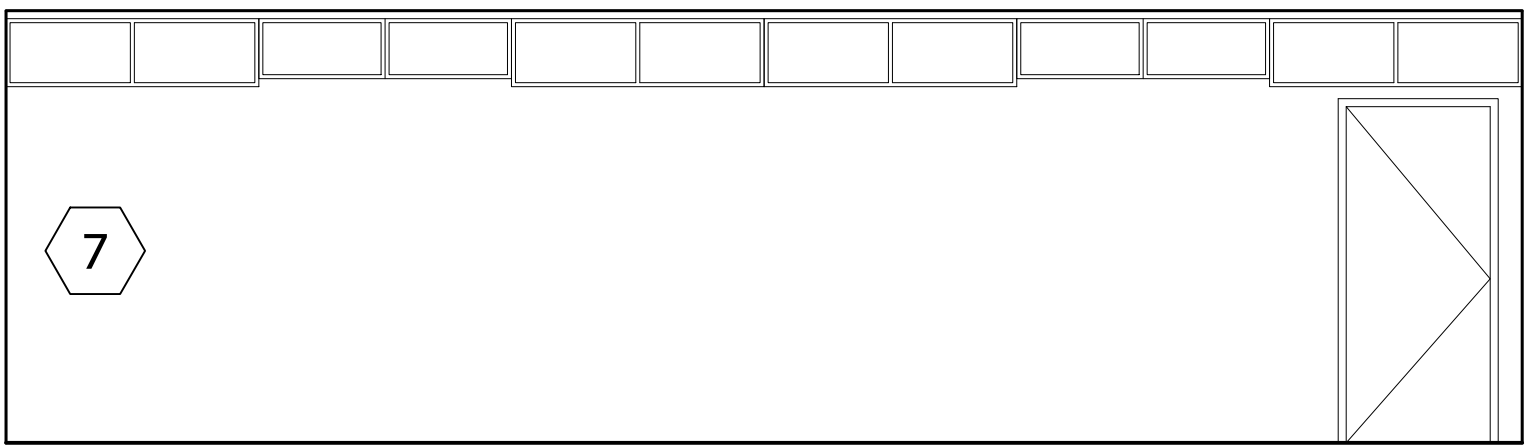
ISSUED FOR: 100% DESIGN DEVELOPMENT

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NO.

A-223



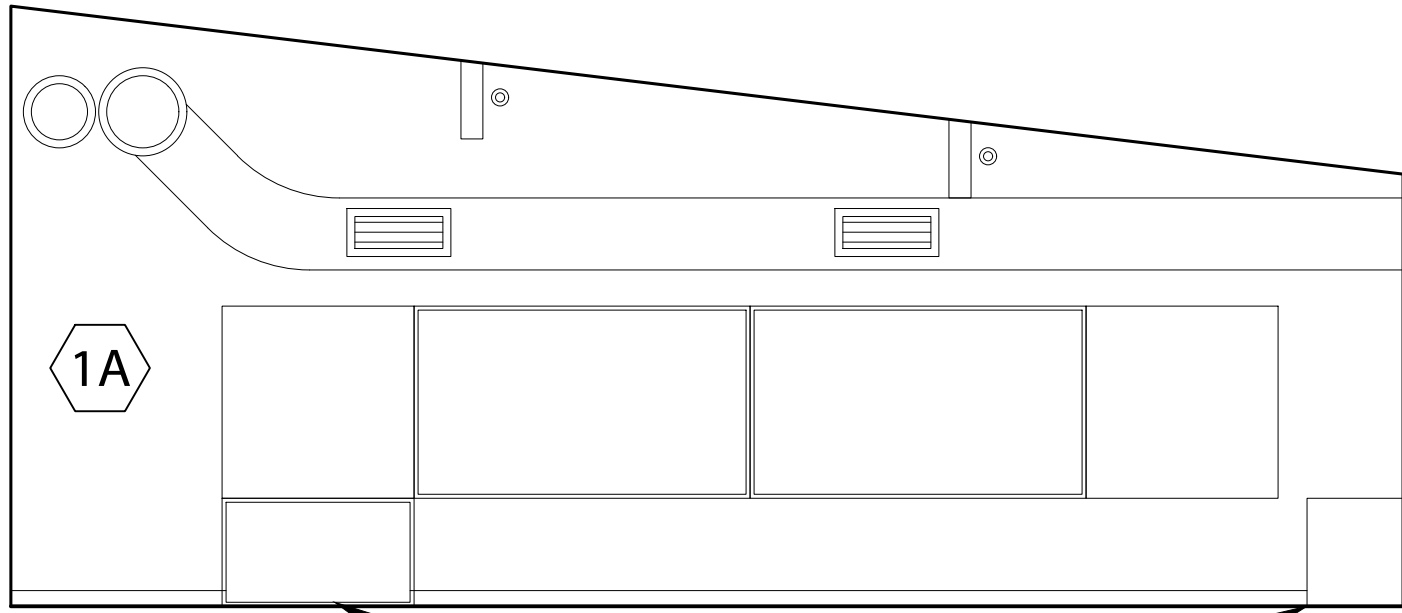
9 W127 STORAGE

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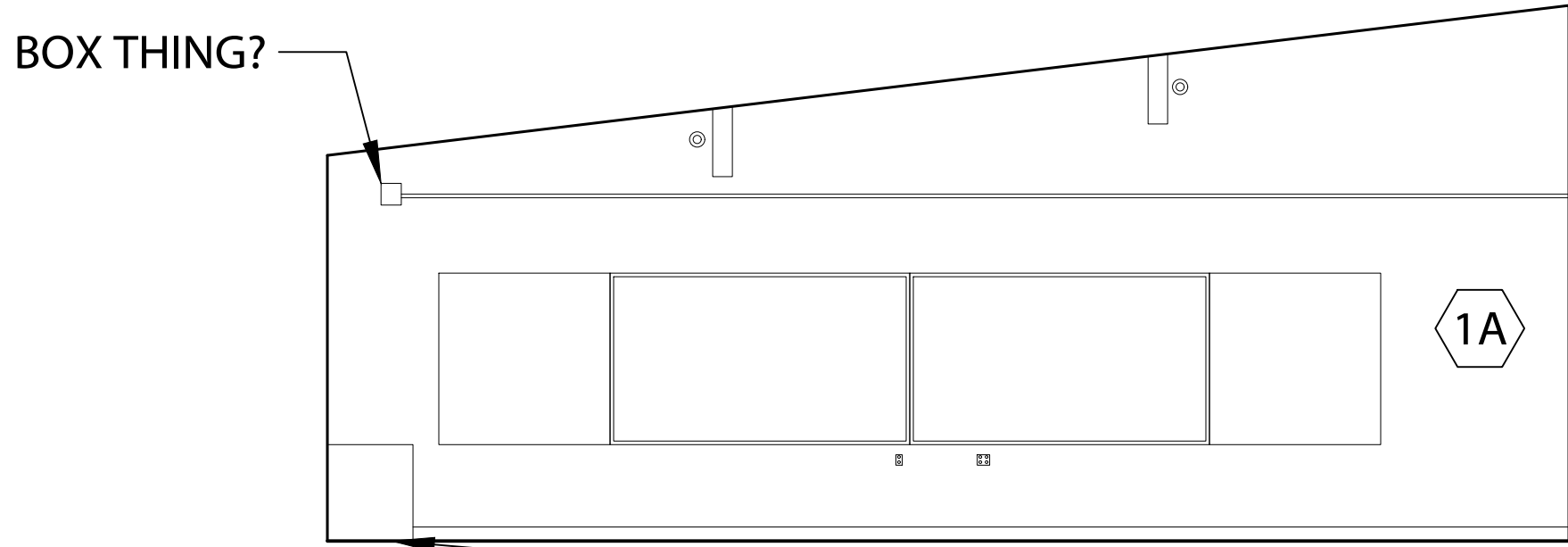
8 DRESSING ROOM

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



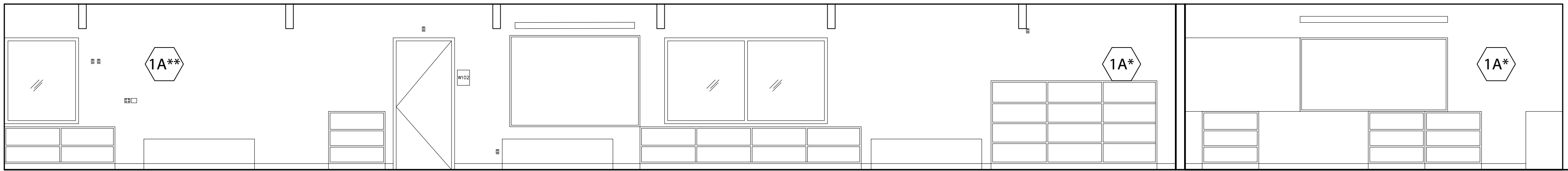
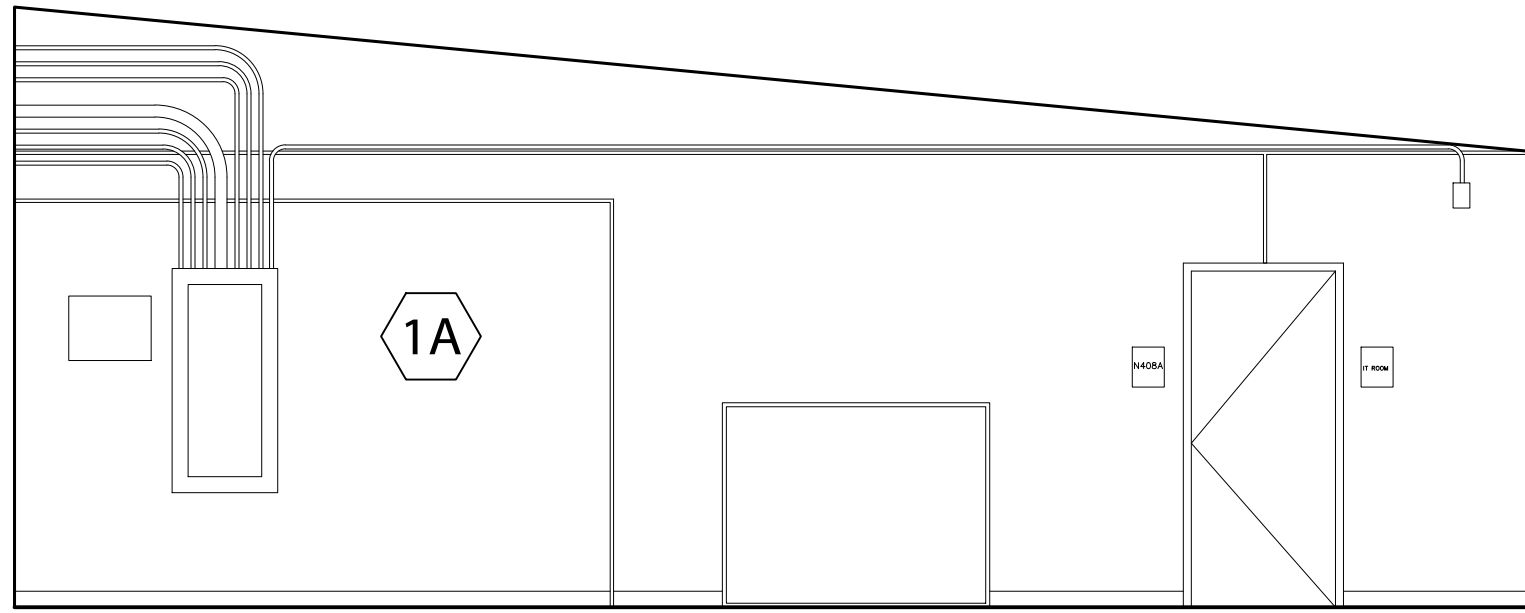
W113

BUILT IN



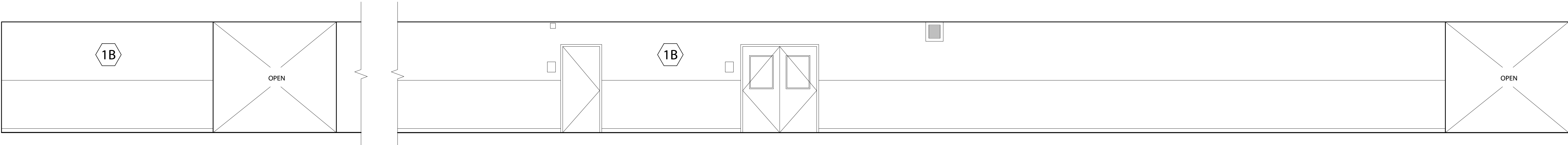
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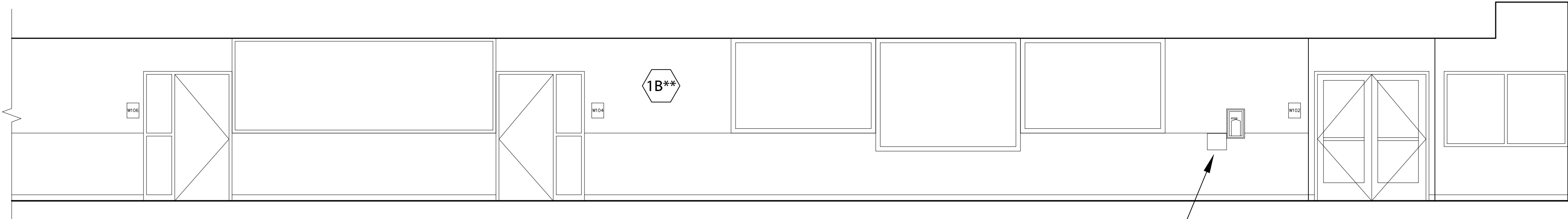
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SCALE: 1/4" = 1'-0"



4 N430 HALLWAY

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



FIRST AID

3 W100 HALLWAY, TYP.

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

GENERAL NOTES:  
A. CONTRACTOR TO PROVIDE ADEQUATE SEISMIC BRACING PER ASCE 7 CHAPTER 13 TO EQUIPMENT INDICATED ON THESE DRAWINGS.  
B. CONTRACTOR TO REFER TO ASCE 7 CHAPTER 13 FOR ADDITIONAL MECHANICAL SYSTEMS BRACING CRITERIA.  
C. ADDITIONAL DIAGONAL BRACING REQUIRED FOR ALL FIRE SUPPRESSION PIPING PER ASCE 7 CHAPTER 13.  
D. ALL NATURAL GAS PIPING TO BE SEISMICALLY BRACED PER ASCE 7 CHAPTER 13. PROVIDE EARTHQUAKE VALVE AT SERVICE ENTRY.

- NOTES:
1. PROVIDE SEISMIC BRACING FOR MEZZANINE AIR HANDLER.
  2. WATER HEATER TO BE SEISMICALLY BRACED TO WALL.
  3. PROVIDE FLEXIBLE PIPE CONNECTOR AT ALL NATURAL GAS EQUIPMENT CONNECTIONS.
  4. BOILER TO BE PROVIDED NEOPRENE SNUBBERS AND ANCHORED TO HOUSE KEEPING PAD. PROVIDE FLEXIBLE CONNECTIONS AT ALL PIPE CONNECTIONS. BOILER PUMPS TO BE PROVIDED ADDITIONAL SEISMIC BRACING AND FLEXIBLE CONNECTIONS.

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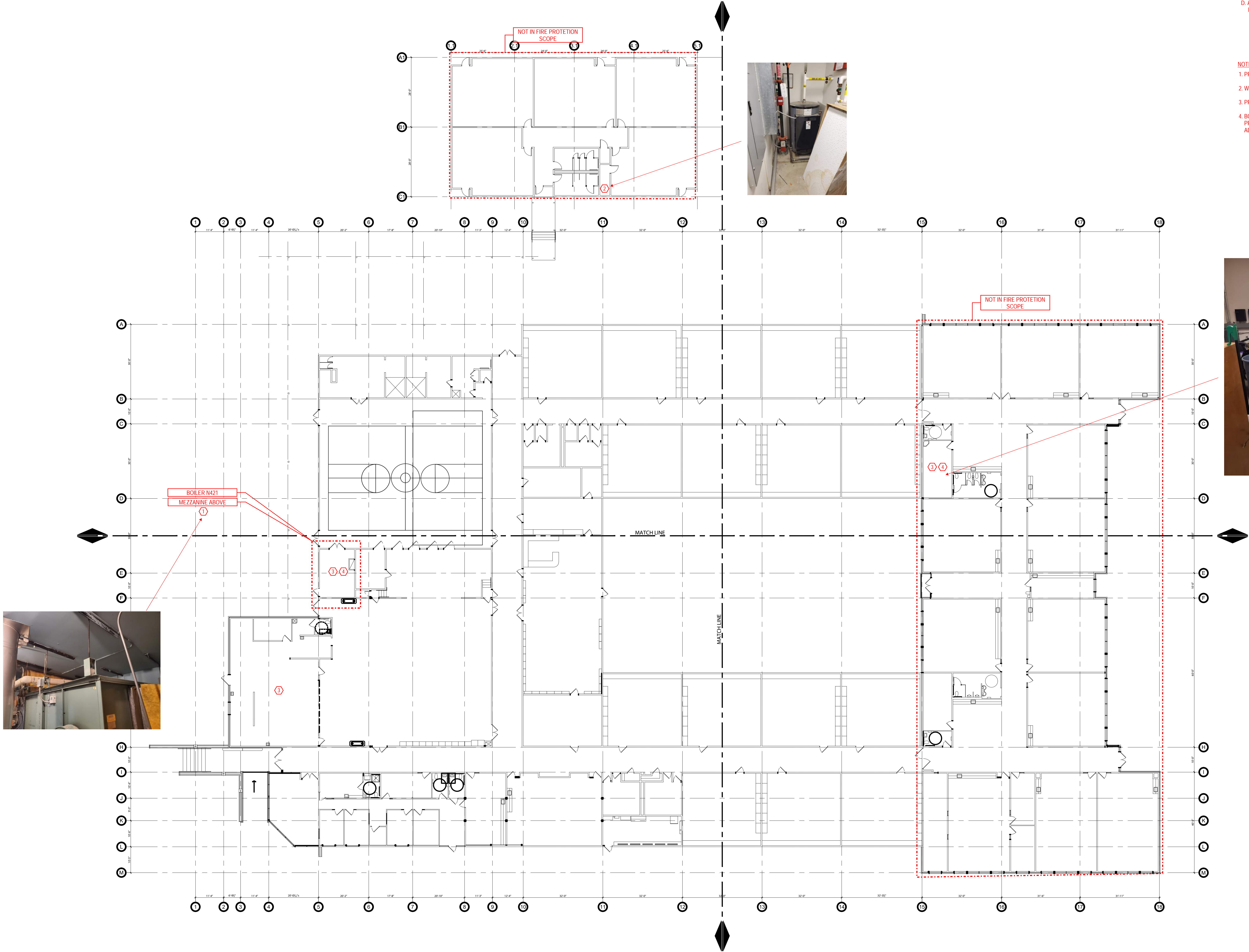
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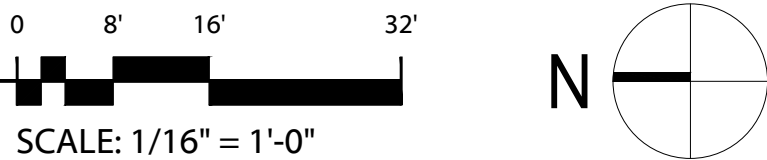
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SHEET TITLE  
OVERALL ROOF PLAN  
SHEET NO.

M-121



1 OVERALL FLOOR PLAN - EXISTING  
SCALE: 1/16" = 1'-0"



GENERAL NOTES:  
A. CONTRACTOR TO PROVIDE ADEQUATE SEISMIC BRACING PER ASCE 7 CHAPTER 13 TO EQUIPMENT INDICATED ON THESE DRAWINGS.  
B. CONTRACTOR TO REFER TO ASCE 7 CHAPTER 13 FOR ADDITIONAL MECHANICAL SYSTEMS BRACING CRITERIA.

- NOTES:
1. REMOVE EXISTING ROOFTOP UNIT TIE DOWNS AND REPLACE WITH TIE DOWNS RATED FOR SEISMIC DESIGN CATEGORY 1.
  2. PROVIDE FLEXIBLE DUCT CONNECTION AT ALL DUCT CONNECTION TO ROOFTOP EQUIPMENT.
  3. PROVIDE FLEXIBLE PIPE CONNECTOR AT ALL NATURAL GAS CONNECTIONS.
  4. NATURAL GAS PIPING ROUTED EXPOSED ON ROOF WILL REQUIRE SEISMIC RETRAINT.

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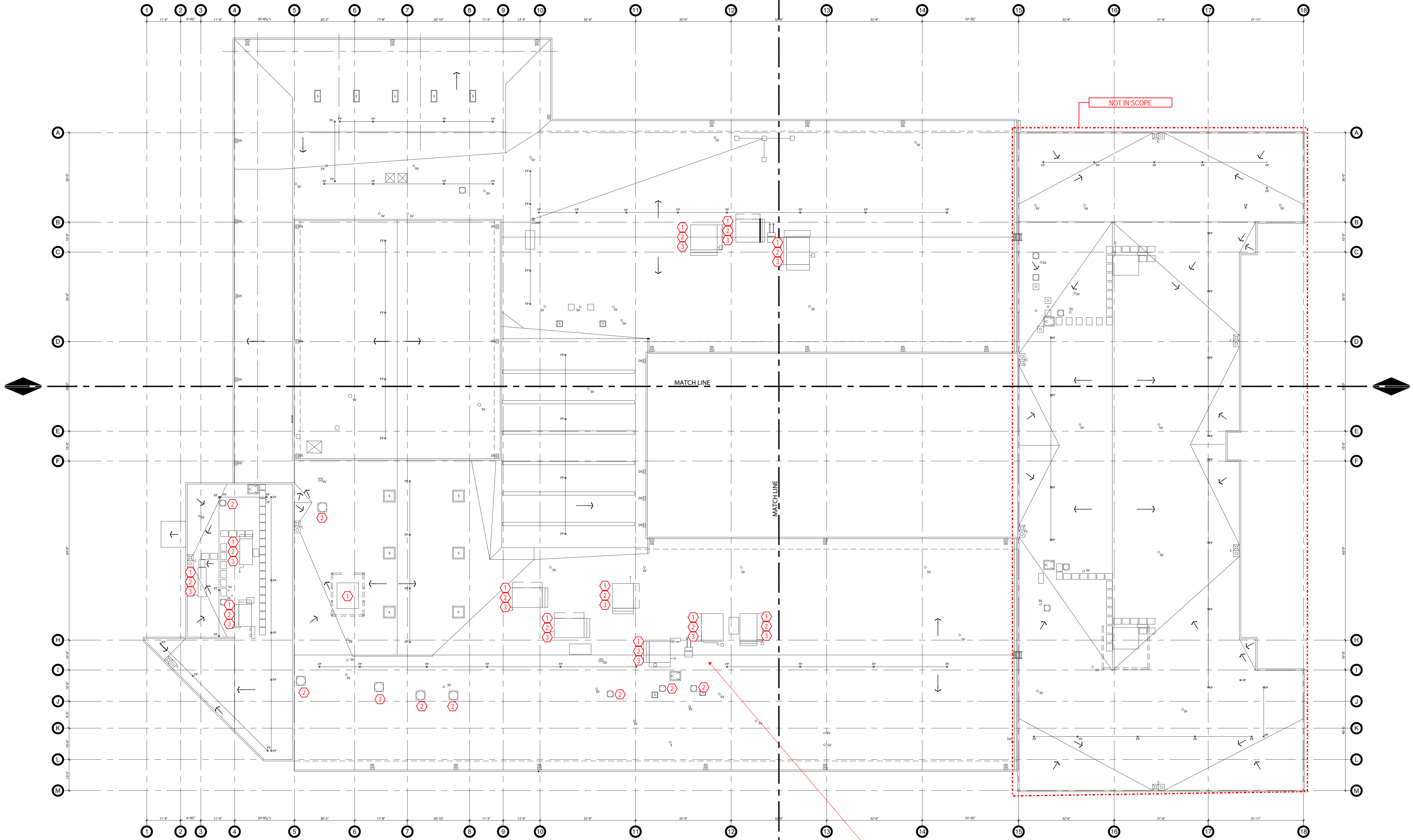
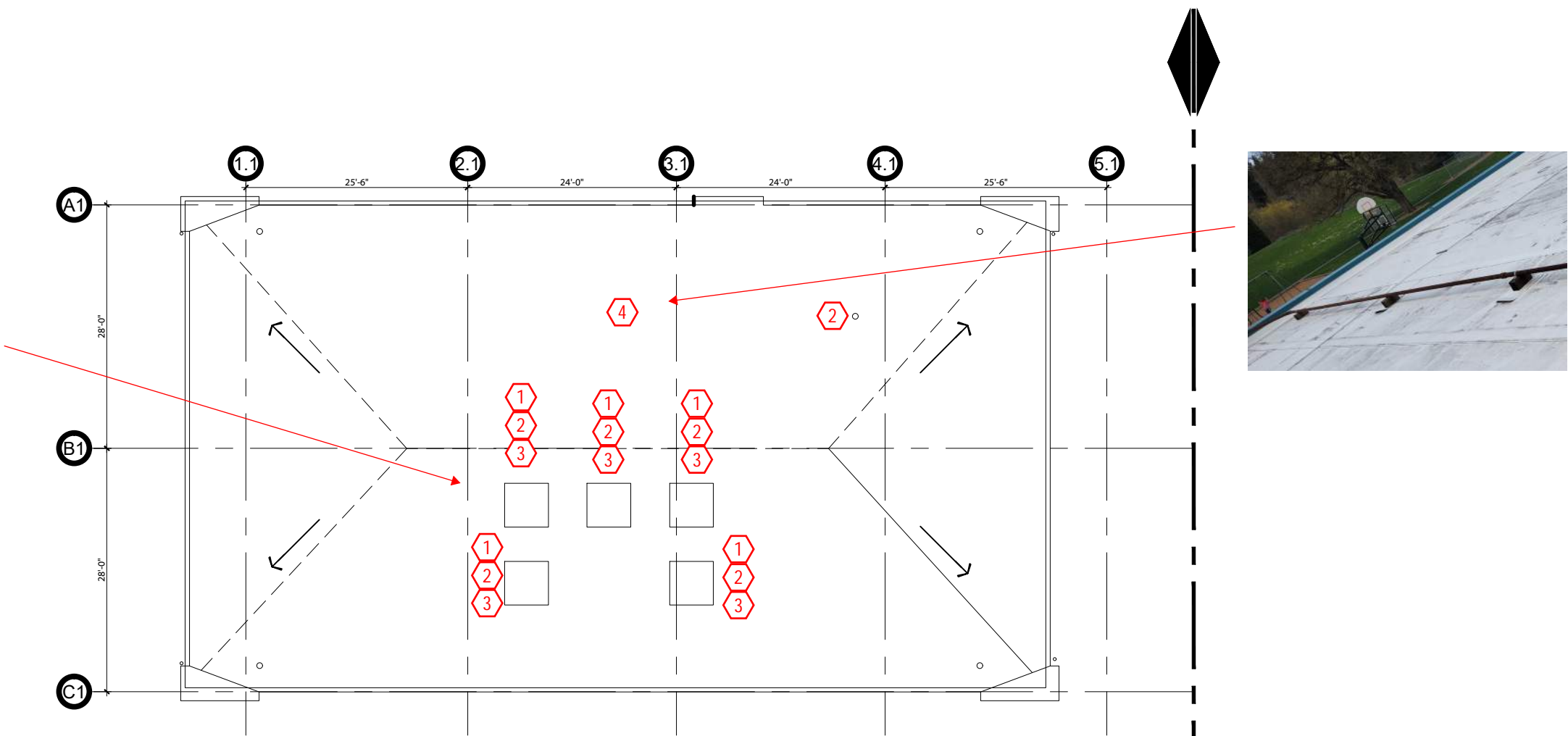
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OVERALL ROOF PLAN  
SHEET NO.

M-161

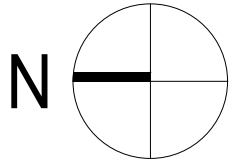
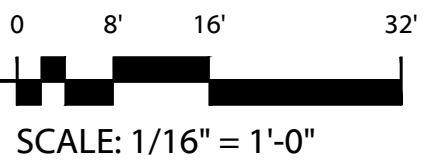


(TYPICAL)



(TYPICAL)

1 OVERALL ROOF PLAN - EXISTING  
SCALE: 1/16" = 1'-0"



GENERAL NOTES:  
A. CONTRACTOR TO PROVIDE ADEQUATE SEISMIC BRACING PER ASCE 7 CHAPTER 13 TO EQUIPMENT INDICATED ON THESE DRAWINGS.  
B. CONTRACTOR TO REFER TO ASCE 7 CHAPTER 13 FOR ADDITIONAL ELECTRICAL SYSTEMS BRACING CRITERIA.  
C. SEISMIC BRACING CRITERIA SHOWN FOR A SINGLE TYPICAL CLASSROOM. THIS CRITERIA APPLIES FOR ALL CLASSROOMS WITHIN.  
D. AREA SOUTH OF GRIDLINE 15 WAS CONSTRUCTED IN 2008 AND APPEARS TO MEET SEISMIC CODE/CRITERIA FOR BRACING. PROVIDE SCOPE AS NOTED WITHIN THIS AREA.

- NOTES:
- BRACE ELECTRICAL CONDUIT SERVING VFDs PER ASCE. PROVIDE FLEXIBLE COUPLING AT MOUNT LOCATION TO ALLOW CONDUIT TO MOVE INDEPENDENTLY FROM STRUCTURE.
  - BRACE MAIN DISTRIBUTION PANEL (MDP) TO PREVENT OVERTURN DURING SEISMIC EVENT.
  - PROVIDE FLEXIBLE COUPLING WHERE CONDUIT ENTERING PANEL H IS 2.5" AND LARGER IN DIAMETER.
  - PROVIDE FLEXIBLE COUPLING WHERE CONDUIT ENTERING EXISTING PANEL MDP IS LARGER THAN 2.5" DIAMETER.
  - REMOVE AND SALVAGE EXISTING PANEL CBP FOR REINSTALLATION AFTER STRUCTURAL REINFORCEMENT WORK IS COMPLETE IN THIS AREA. RETAIN AND REMOVE EXISTING BRANCH CIRCUIT CONDUIT MOUNTED TO EAST WALL OF THIS ROOM TO ALLOW FOR STRUCTURAL REINFORCEMENT WORK ALONG THE EAST SIDE OF THIS ROOM. BRANCH CIRCUITS WILL BE RETERMINATED AT PANEL CBP WHEN PANEL IS REINSTALLED AFTER STRUCTURAL REINFORCEMENT WORK IS COMPLETE. REFER TO THE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON AREA OF WORK AND STRUCTURAL UPGRADE REQUIREMENTS.
  - BRACE EXISTING NETWORK RACK TO MINIMIZE SWAY/OVERTURN DURING SEISMIC EVENT.
  - BRACE OVERHEAD FLUORESCENT LIGHTING AND LENSES TO PREVENT SWAY AND DISCONNECT FROM CEILING DURING SEISMIC EVENT. SEE ENLARGED PLANS FOR DETAIL OF EXISTING LIGHTING.
  - BRACE ELECTRICAL PANEL TO PREVENT OVERTURN DURING SEISMIC EVENT.
  - BRACE LINEAR CABLE MOUNTED PENDANT LIGHTING IN THIS AREA TO PREVENT SWAY AND DISCONNECT DURING SEISMIC EVENT.
  - BRACE EXISTING HIGH-BAY FLUORESCENT LIGHTING AND LENSES TO PREVENT SWAY AND DISCONNECT FROM CEILING DURING SEISMIC EVENT.
  - PROVIDE FLEXIBLE COUPLING AT CONDUITS AS THEY TRANSITION TO EXTERIOR IN THIS LOCATION.
  - PROVIDE FLEXIBLE COUPLING FOR CONDUITS 2.5" AND GREATER AT WALL ABOVE STAGE STAIRS.

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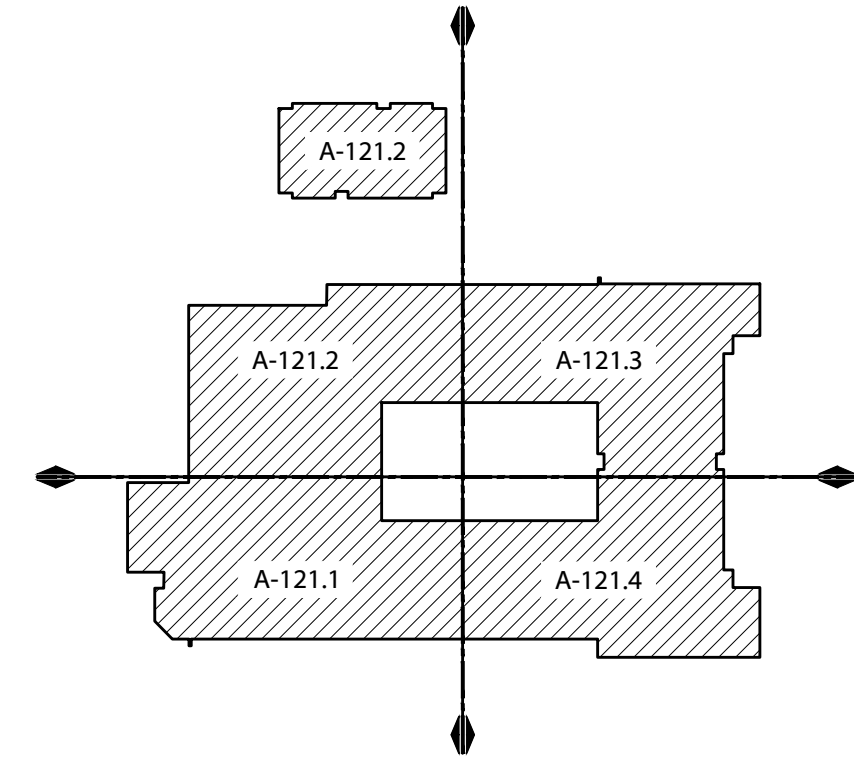
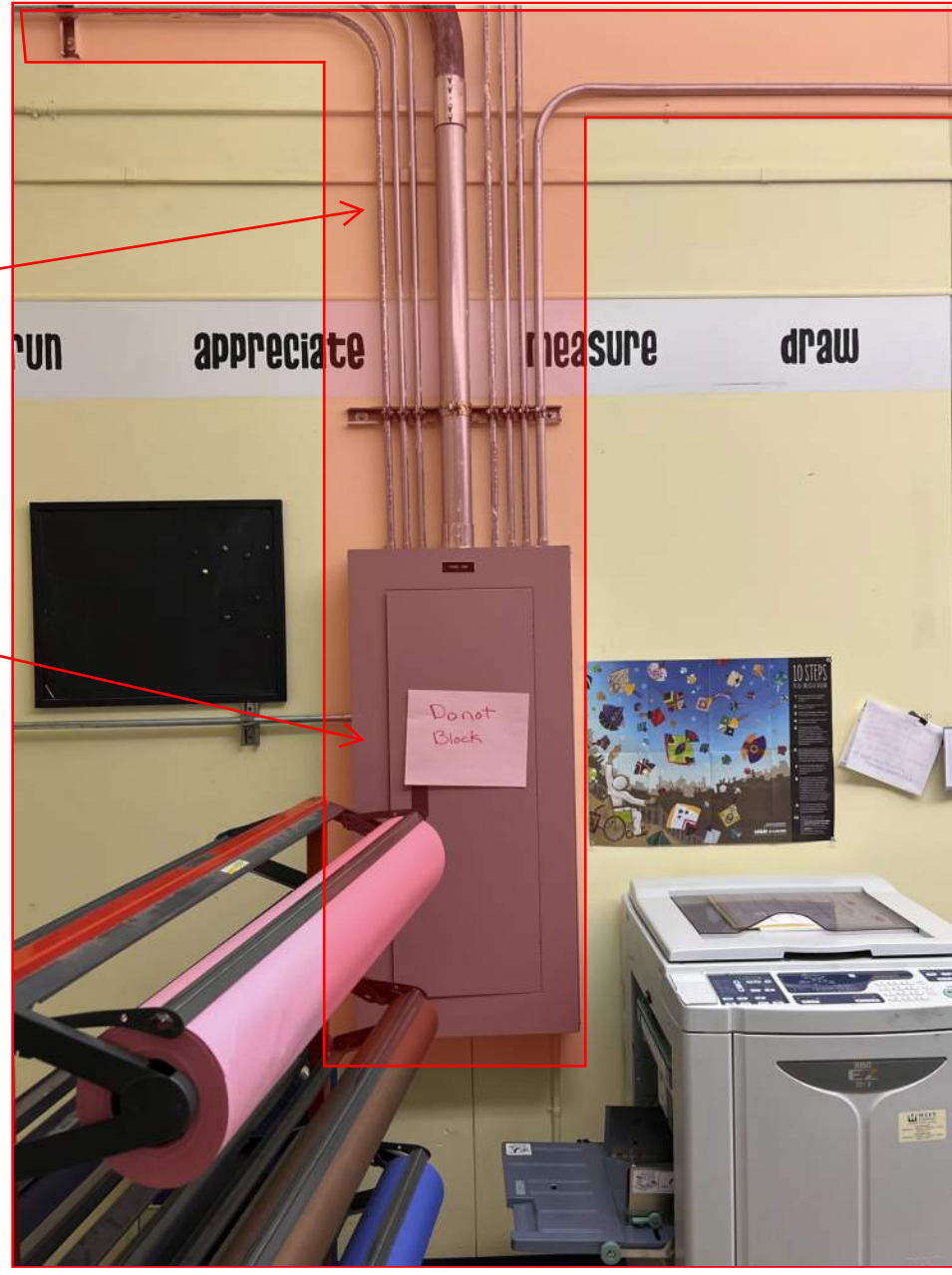
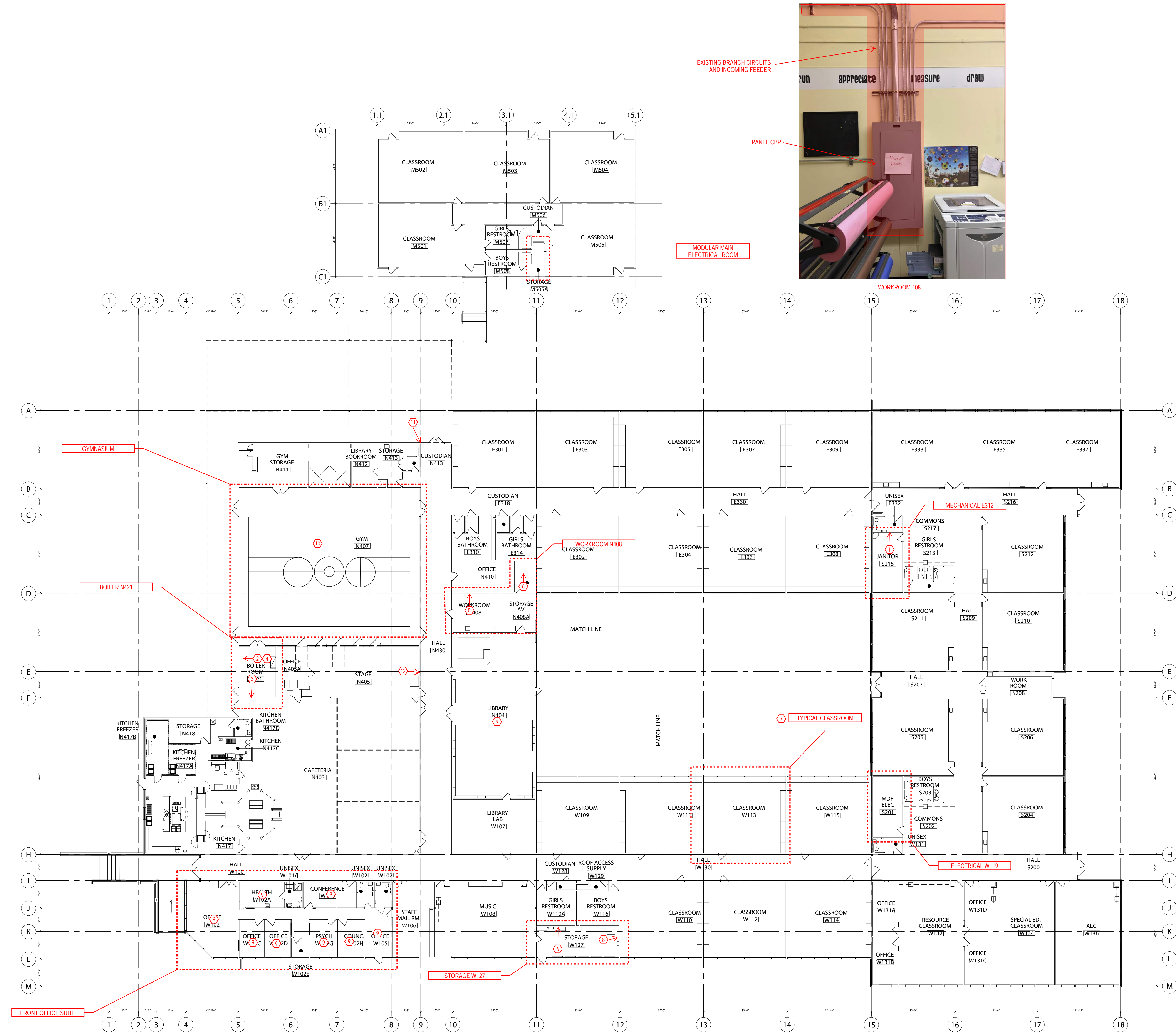
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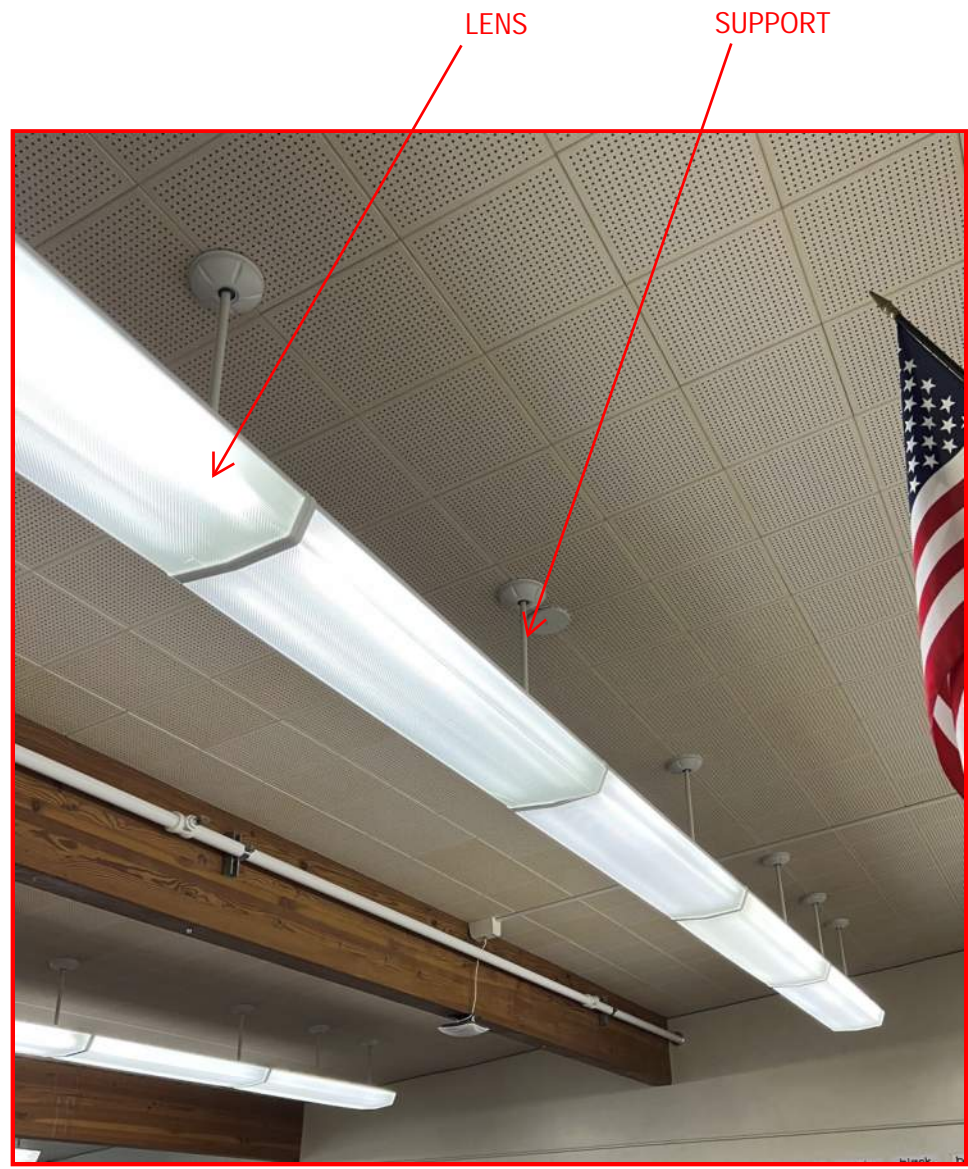
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SHEET NO.

E-121



KEY PLAN  
SCALE: NOT TO SCALE

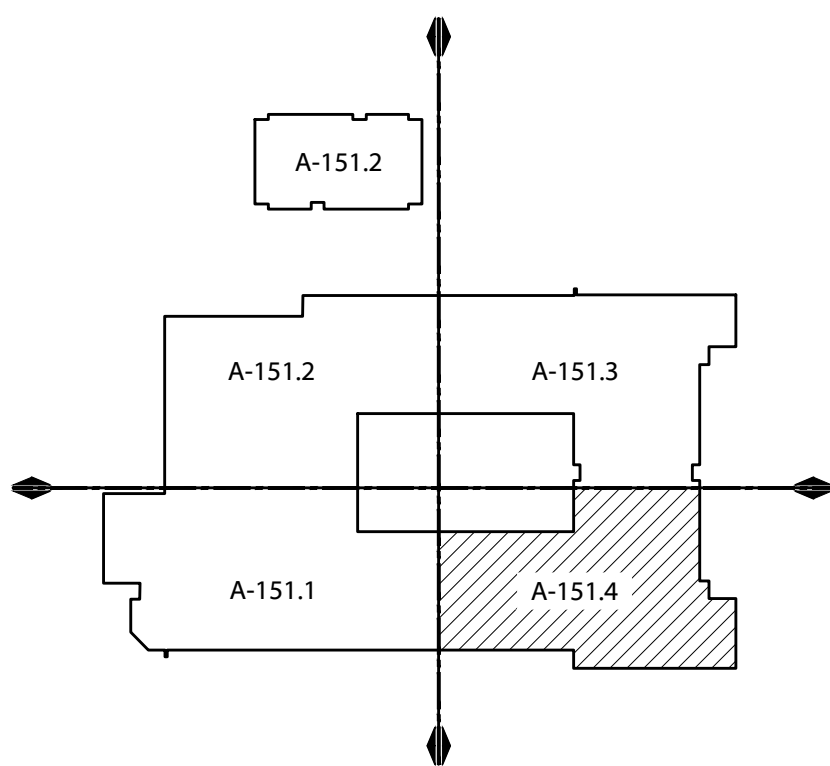
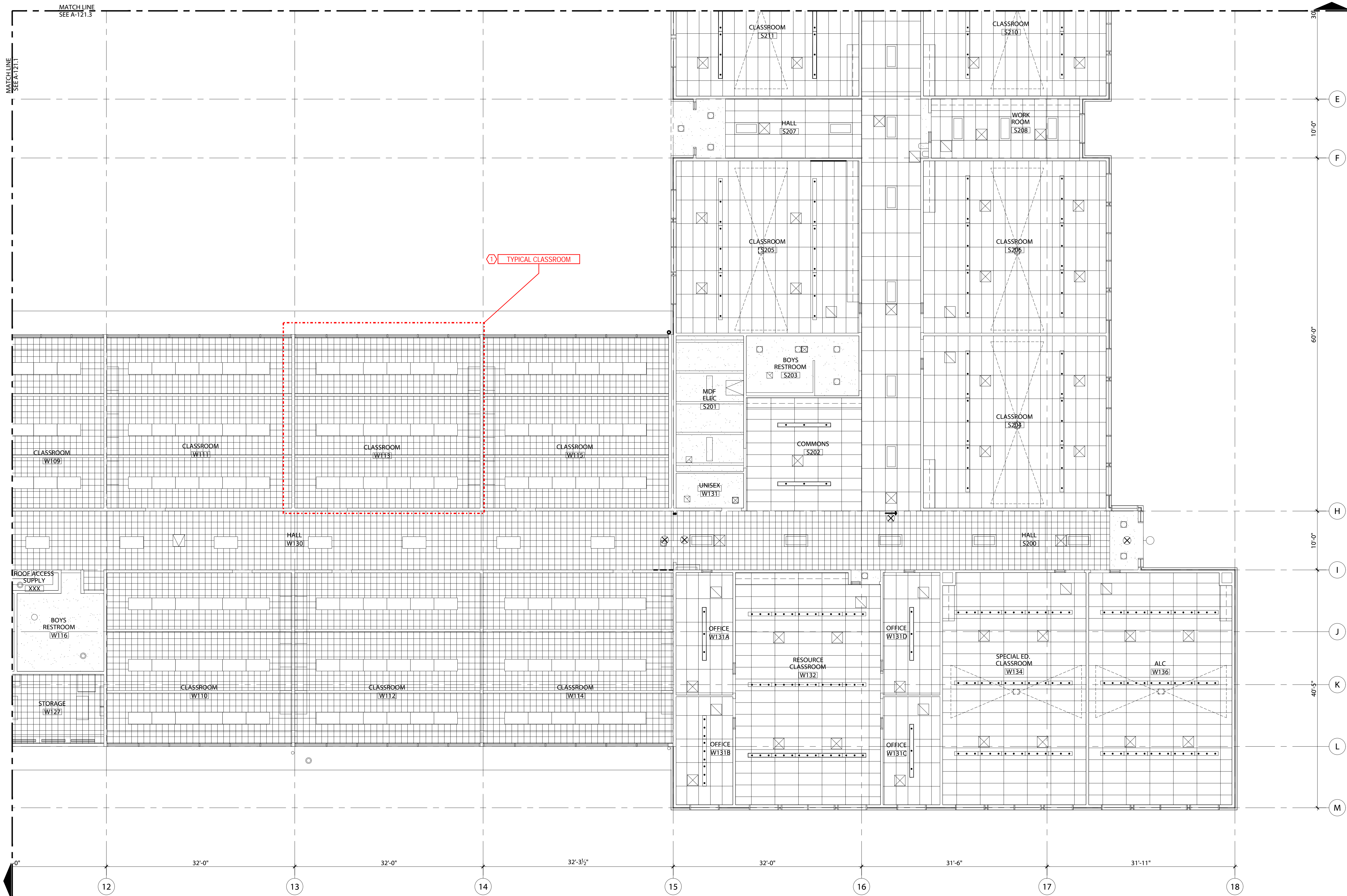


TYPICAL CLASSROOM LIGHTING

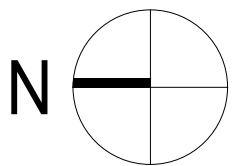
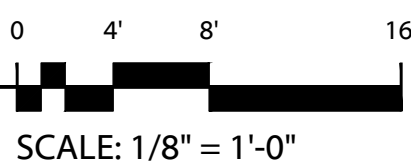


TYPICAL CLASSROOM LIGHTING

NOTES:  
1. SCOPE INCLUDES SECURING LENS IN ALL CLASSROOMS NORTH OF GRIDLINE 15.  
TYPICAL CLASSROOM LAYOUT SHOWN.



1 ENLARGED RCP - SECTOR 4 - EXISTING  
SCALE: 1/8" = 1'-0"



KEY PLAN  
SCALE: NOT TO SCALE

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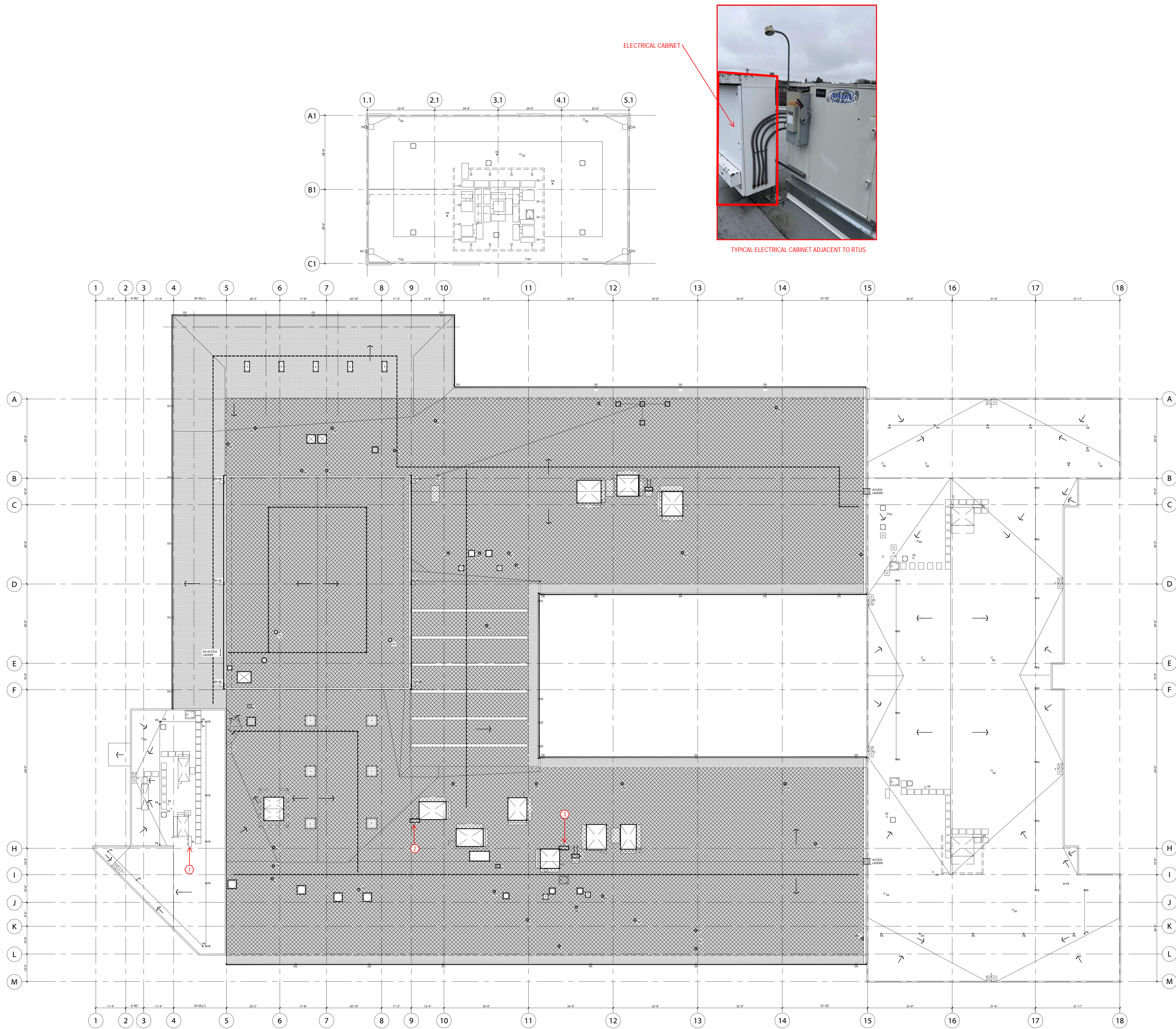


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SHEET NO.

A-151.4

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GENERAL NOTES:

A. CONTRACTOR TO PROVIDE SEISMIC BRACING PER ASCE 7 CHAPTER 13 FOR EQUIPMENT AND CONNECTIONS INDICATED ON THESE DRAWINGS.

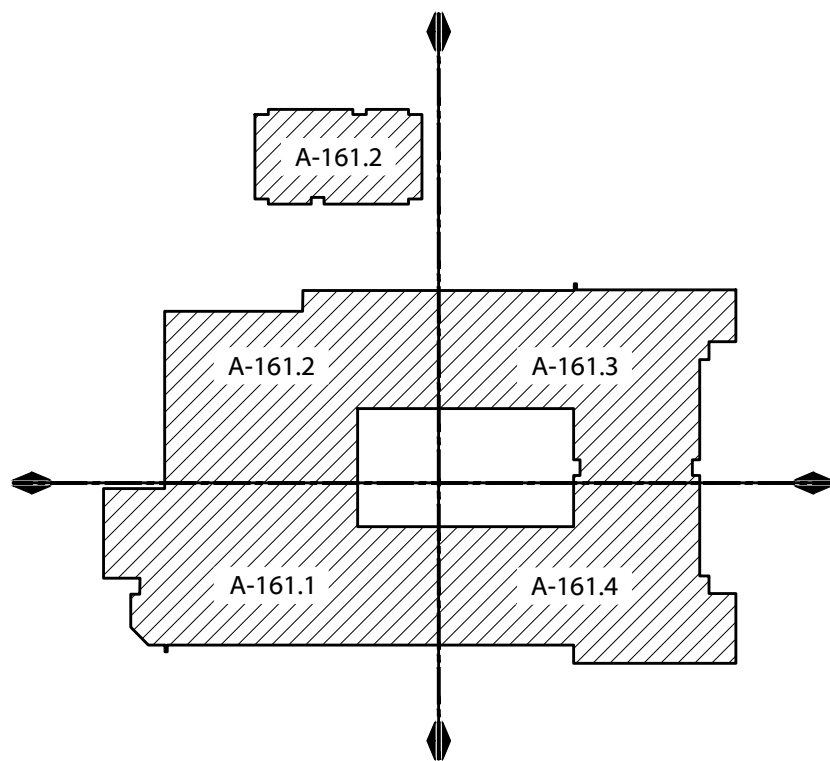
B. CONTRACTOR TO REFER TO ASCE 7 CHAPTER 13 FOR ADDITIONAL ELECTRICAL SYSTEMS BRACING CRITERIA.

NOTES:

1. BRACE ELECTRICAL CABINET ADJACENT TO RTU-3 TO PREVENT CABINET OVERTURN DURING SEISMIC EVENT.

2. BRACE ELECTRICAL CABINET ADJACENT TO RTU-1 TO PREVENT CABINET OVERTURN DURING SEISMIC EVENT.

3. BRACE ELECTRICAL CABINET ADJACENT TO RTU-9 TO PREVENT CABINET OVERTURN DURING SEISMIC EVENT.



KEY PLAN  
SCALE: NOT TO SCALE

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SHEET NO.

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