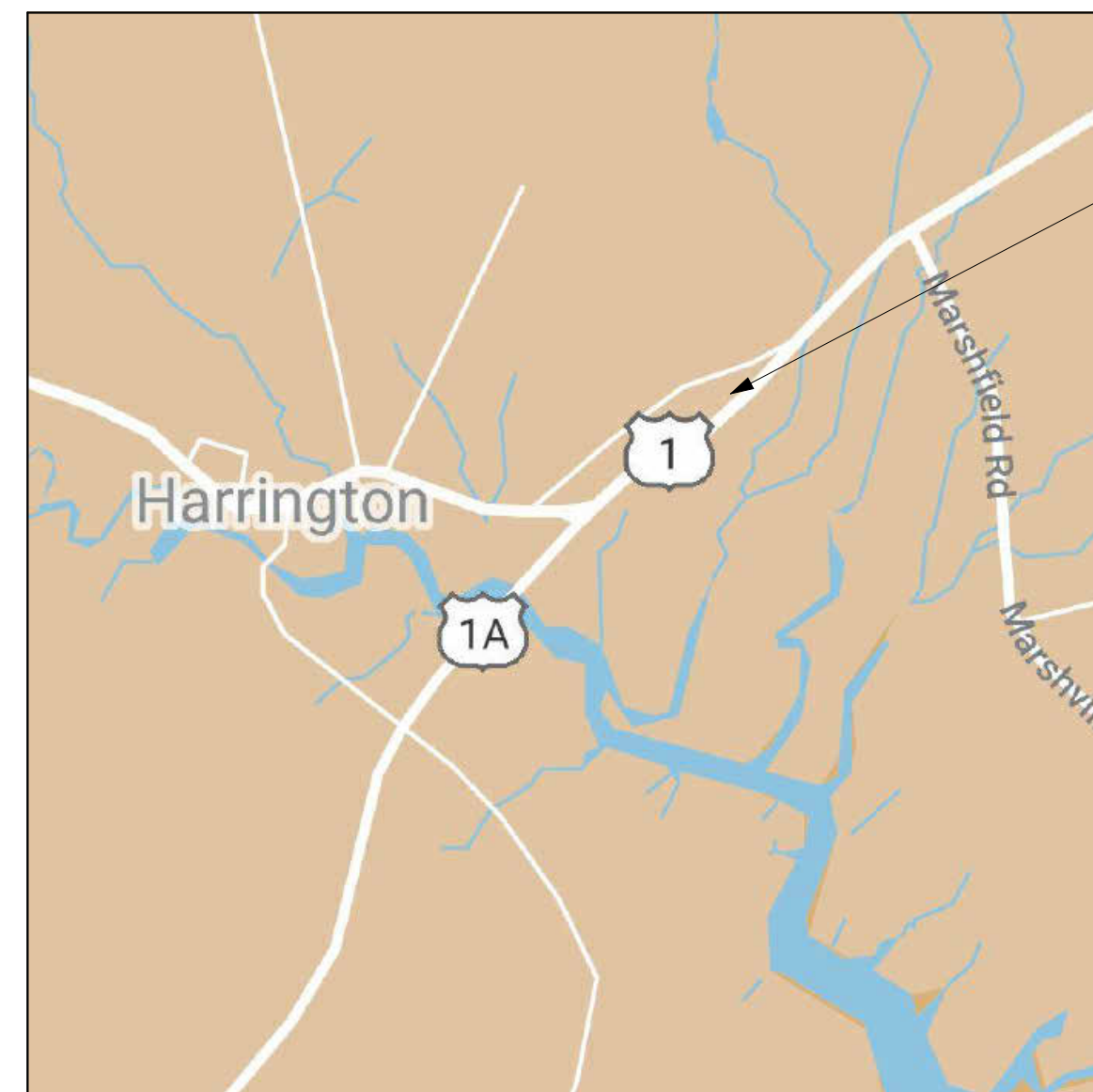


3 PROJECT IMAGE



2 GOOGLE EARTH IMAGE  
12" = 1'-0"



1 PROJECT LOCATION  
12" = 1'-0"

PROJECT TEAM

12" = 1'-0"

CLIENT:  
HARRINGTON FAMILY HEALTH CARE CENTER  
50 EAST MAIN STREET  
HARRINGTON ME 04643  
CONTACT: JESSICA ACKLEY  
207.483.6512 EXT 404

ARCHITECT:  
SEALANDER ARCHITECTS  
79 MAIN STREET  
SUITE C  
ELLSWORTH ME 04605  
CONTACT: MIKE SEALANDER, AIA  
207.266.5822

MECHANICAL/ELECTRICAL ENGINEER:  
HALYWARD  
ONE MERCHANTS PLAZA SUITE 701  
BANGOR ME 04401  
CONTACT: JARED MERRY  
207.589.4824

STRUCTURAL ENGINEER:  
THORNTON TOMASETTI  
14 YORK STREET  
PORTLAND ME 04101  
CONTACT: ETHAN RHILE  
207.879.1838 EXT 101

SET SHEETS- GENERAL	
NUMBER	NAME
G-000	TITLE SHEET
G-001	GENERAL NOTES
G-010	EXISTING SITE
G-100	CODE ANALYSIS
G-300	EXISTING AREAS

SET SHEETS- STRUCTURAL	
NUMBER	NAME
S-100	GENERAL NOTES
S-210	PARTIAL FOUNDATION & FRAMING PLANS
S-300	SECTIONS & DETAILS

SET SHEETS- ARCHITECTURAL	
NUMBER	NAME
A-010	VERTICAL ASSEMBLIES
A-011	HORIZONTAL ASSEMBLIES
A-040	AXONOMETRICS
A-041	STAIR AXONOMETRICS
A-042	OLD PORTION
A-110	DEMOLITION PLANS
A-150	DEMO/NEW OVERLAY
A-200	SITE PLAN
A-210	PHASING KEY PLANS
A-250	PLANS
A-251	OPERATORIES
A-300	REFLECTED CEILING PLAN
A-400	ELEVATIONS
A-410	INTERIOR ELEVATIONS
A-411	INTERIOR ELEVATIONS
A-500	WALL SECTIONS
A-650	STAIRS
A-700	DETAILS
A-710	DETAILS
A-720	CASEWORK
A-800	DOORS
A-900	FLOOR FINISHES
A-910	FURNITURE
A-920	SIGNAGE

SET SHEETS- PLUMBING	
NUMBER	NAME
P-001	PLUMBING NOTS, SYMBOLS & ABBREVIATIONS
P-101	BASEMENT & FIRST FLOOR PLUMBING DEMO PLANS NORTH
P-102	FIRST FLOOR PLUMBING DEMO PLAN SOUTH
P-201	BASEMENT & FIRST FLOOR NORTH DWV PLANS NORTH
P-202	UNDERSLAB & FIRST FLOOR DWV PLAN SOUTH
P-301	BASEMENT & FIRST FLOOR DOMESTIC PLUMBING PLANS NORTH
P-302	FIRST FLOOR DOMESTIC PLUMBING PLAN SOUTH
P-401	PLUMBING SECTIONS
P-501	PLUMBING DETAILS AND SCHEDULE

SET SHEETS- MECHANICAL	
NUMBER	NAME
M-001	MECHANICAL NOTES, SYMBOLS & ABBREVIATIONS
M-101	MECHANICAL DEMO PLANS NORTH
M-102	MECHANICAL DEMO PLANS SOUTH
M-201	MECHANICAL DUCTWORK PLANS NORTH
M-202	MECHANICAL DUCTWORK PLANS SOUTH
M-301	MECHANICAL PIPING PLANS NORTH
M-302	MECHANICAL PIPING PLANS SOUTH
M-501	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES & SEQUENCE OF OPERATIONS

SET SHEETS- ELECTRICAL	
NUMBER	NAME
E-001	ABBREVIATIONS, NOTES & SYMBOLS
E-101	FIRST & SECOND FLOOR ELECTRICAL LIGHTING DEMO PLANS NORTH
E-102	FIRST & SECOND FLOOR ELECTRICAL LIGHTING DEMO PLANS SOUTH
E-201	BASEMENT, FIRST & SECOND FLOOR ELECTRICAL POWER DEMO PLANS NORTH
E-202	FIRST & SECOND FLOOR ELECTRICAL POWER DEMO PLANS SOUTH
E-301	FIRST & SECOND FLOOR ELECTRICAL LIGHTING PLANS NORTH
E-302	FIRST & SECOND FLOOR ELECTRICAL LIGHTING PLANS SOUTH
E-401	BASEMENT, FIRST & SECOND FLOOR ELECTRICAL POWER PLANS NORTH
E-402	FIRST & SECOND FLOOR ELECTRICAL POWER PLANS SOUTH
E-501	ELECTRICAL ONE-LINE DIAGRAM & DETAILS
E-601	ELECTRICAL SCHEDULES

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ARCHITECT PROJECT #  
662

HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION

BID DOCUMENTS  
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TITLE SHEET

G-000





**GENERAL NOTES**

- THE FOLLOWING NOTES ARE TO BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS FOR THIS PROJECT. THE REFERENCED STANDARDS ARE PART OF THIS WORK.
- EDITIONS OF MATERIAL STANDARDS REFERENCED ON THIS DRAWING SHALL BE AS INDICATED IN THE BUILDING CODES.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER PROJECT DRAWINGS. CONSULT ALL OTHER PROJECT DOCUMENTS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE EFFECTED PART OF THE WORK.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER RESERVES THE RIGHT TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS.
- ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE STRUCTURAL DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIE-DOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.

**DESIGN LOADS**

- BUILDING CODE:**  
MAINE UNIFORM BUILDING AND ENERGY CODE  
INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION  
INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2015 EDITION  
ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, RISK CATEGORY II
- DESIGN FLOOR LIVE LOADS:**  
UNIFORM / CONCENTRATED  
OFFICE BUILDING-LOBBIES & FIRST FLOOR 100 PSF / 2,000 LBS  
OFFICE BUILDING-OFFICES 50 PSF / 2,000 LBS  
AND ALLOWANCE FOR FIXED PARTITION +15 PSF  
OFFICE BUILDING-CORRIDOR ABOVE FIRST FLOOR 80 PSF / 2,000 LBS
- DESIGN ROOF SNOW LOAD:**  
GROUND SNOW LOAD (Pg): 60 PSF  
SNOW EXPOSURE FACTOR (Ce): 1.0  
SNOW LOAD IMPORTANCE FACTOR (Is): 1.0  
SNOW LOAD THERMAL FACTOR (Ct): 1.1 (AT NEW ADD)  
FLAT ROOF SNOW LOAD (P): 46 PSF  
DRIFTS AND DRIFT WIDTHS HAVE BEEN INCLUDED IN ACCORDANCE WITH ASCE 7-10 SECTION 7.7.
- DESIGN WIND LOAD:**  
ULTIMATE DESIGN WIND SPEED (VULT): 115 MPH  
NOMINAL DESIGN WIND SPEED (VASD): 95 MPH  
WIND EXPOSURE: C  
INTERNAL PRESSURE COEFFICIENT: ±0.18  
COMPONENTS & CLADDING PER ASCE 7-10

**SUBMITTALS**

- THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS AND MATERIAL DATA FOR ALL PARTS OF THE WORK OUTLINED IN THE FOLLOWING NOTES. CONTRACTOR SHALL ALLOW 10 WORKING DAYS FOR REVIEW.
- REQUIRED SUBMITTALS SHALL INCLUDE:  
WOOD FRAMING  
A. LUMBER, SHEATHING, AND FRAMING MATERIALS  
B. STRUCTURAL COMPOSITE FRAMING & I-JOISTS  
C. NAILS AND FASTENERS  
D. FRAMING CONNECTORS  
E. PROPOSED SUBSTITUTIONS

**CONCRETE NOTES**

- CONCRETE WORK SHALL CONFORM TO THE ACI "MANUAL OF CONCRETE PRACTICE," INCLUDING BUT NOT LIMITED TO ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE."
- CONCRETE FOUNDATIONS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,500 PSI. CONCRETE SLABS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. EXTERIOR SLAB-ON-GRADE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI. ADDITIONAL CONCRETE MIX PERFORMANCE DATA INCLUDING AIR CONTENT, WATER-CEMENT RATIO, AGGREGATE SIZE, SLUMP, ETC. HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH ACI 315.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE PROVIDED IN FLAT SHEETS. LAP TWO SQUARES AT ALL JOINTS AND TIE AT 3'-0" ON CENTER.
- FIBER REINFORCEMENT SHALL BE TYPE II SYNTHETIC VIRGIN HOMOPOLYMER POLYPROPYLENE FIBERS CONFORMING TO ASTM C1116.
- MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:  
A. SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH, 3"  
B. FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER:  
#5 BARS AND SMALLER, 1 1/2"  
#6 THROUGH #11 BARS, 2"  
C. SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER:  
WALLS, SLABS, AND JOISTS #11 AND SMALLER, 1"  
BEAMS, GIRDERS, AND COLUMNS; ALL REINFORCEMENT, 1 1/2"
- REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS. SEE SCHEDULE FOR REQUIRED REBAR LAP SPlice LENGTHS.
- WELDING OF REINFORCEMENT IS NOT PERMITTED, UNLESS SPECIFICALLY INDICATED.
- CONSTRUCTION AND CONTRACTION JOINTS SHOWN ON DRAWINGS ARE MANDATORY. OMISSIONS, ADDITIONS, OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMITTAL OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER. WHERE JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTRACTION JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE BEAMS/GRADE BEAMS SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR, UNLESS NOTED OTHERWISE.
- SPACING OF CONSTRUCTION OR CONTRACTION JOINTS, UNLESS NOTED OTHERWISE SHALL BE AS FOLLOWS:  
A. FOOTINGS AND WALLS:  
MAX SPACING OF 40'-0" OR 15'-0" FROM ANY CORNER. A MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS. COORDINATE JOINT LOCATIONS WITH VENEER CONTROL JOINT LOCATIONS WHEREVER POSSIBLE.  
B. SLABS ON GRADE  
MAX SPACING IN EACH DIRECTION OF 36xSLAB DEPTH. LIMIT PLAN ASPECT RATIOS TO 1.5.
- ANCHOR RODS FOR ATTACHMENT OF SILL PLATES SHALL BE A307. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ANCHOR RODS THAT ARE TO BE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED.
- SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTION, SUBGRADE FLUCTUATIONS, AND TO OBTAIN THE SPECIFIED SLAB ELEVATION AT THE FLATNESS AND LEVELNESS INDICATED.
- PROVIDE A 15-MIL POLYOLEFIN VAPOR RETARDER MEETING THE REQUIREMENTS OF ASTM E1745 CLASS A OVER PREPARED SUB BASE (U.N.O.), REFERENCE ARCHITECTURAL DRAWINGS AND SPEC FOR ADDITIONAL REQUIREMENTS AND VAPOR RETARDER LOCATIONS.
- FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN IN THE TYPICAL DETAILS.
- PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE OR SLABS CAST ON GRADE. ADJACENT SLEEVES SHALL BE SPACED A MINIMUM OF THREE DIAMETERS APART. NO PENETRATIONS SHALL BE MADE THROUGH FOOTINGS WITHOUT WRITTEN PERMISSION FROM ENGINEER.
- INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION OF REINFORCEMENT.
- ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITIONS OF EMBEDMENTS. "WET SETTING" OF EMBEDMENTS INTO CONCRETE IS STRICTLY PROHIBITED. EMBEDMENTS INCLUDE, BUT NOT BY LIMITATION, REINFORCEMENT, REINFORCING DOWELS, EMBEDDED PLATES, ANCHOR RODS, ANCHOR INSERTS, SLEEVES, LOAD TRANSFER PLATES, DIAMOND DOWELS, AND SHELF-BULK HEADS.

**FOUNDATION NOTES**

- FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON SUITABLE UNDISTURBED NATIVE SOILS AND/OR NEW COMPACTED STRUCTURAL FILL EXTENDING TO UNDISTURBED NATIVE SOIL PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. REFER TO THIS REPORT FOR SPECIFIC BEARING RECOMMENDATIONS.
- ALLOWABLE BEARING CAPACITY 3,000 PSF
- EXTEND BOTTOM OF EXTERIOR FOOTINGS AT LEAST 4.5 FEET BELOW THE FINAL EXTERIOR GRADE FOR PROTECTION AGAINST FROST.
- NO FILL FOR BUILDING SUPPORT SHALL BE PLACED UNTIL SUBGRADES HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- REFERENCE THE GEOTECHNICAL REPORT FOR ALL EXCAVATION, BACKFILL, COMPACTION, CONSTRUCTION DEWATERING AND PERMANENT DRAINAGE REQUIREMENTS.
- SOILS EXPOSED AT THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHALL BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHALL BE ADEQUATELY PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. GROUNDWATER SHOULD BE ANTICIPATED FOR EXCAVATIONS AND APPROPRIATE DEWATERING MEASURES SHALL BE EMPLOYED.
- EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. BRACED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE. DO NOT UNDERMINE EXISTING FOUNDATIONS OF ANY ADJACENT STRUCTURES. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL AND/OR MORE SPECIFIC REQUIREMENTS.

**WOOD FRAMING NOTES**

- WOOD FRAMING WORK SHALL CONFORM TO THE AF&PA NATION DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) AND WOOD SHEATHING WORK SHALL TO CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA).
- DIMENSIONAL LUMBER: NO. 2 GRADE OR BETTER SPRUCE-PINE-FIR (SPF), NGLA GRADED, KILN-DRIED OR SEASONED TO 19% MAXIMUM MOISTURE CONTENT.
- STRUCTURAL COMPOSITE LUMBER: LAMINATED VENEER LUMBER (LVL), PARALLEL STRAND LUMBER (PSL), AND LAMINATED STRAND LUMBER (LSL) BY WEYERHAEUSER, BOISE, OR APPROVED PRODUCTS (SUBMIT DATA). INSTALLATION AND FASTENING OF PLIES ACCORDING TO MANUFACTURER'S DETAILS.  
BEAMS, HEADERS, STUDS (LVL & PSL):  
MODULUS OF ELASTICITY (E) = 2,000,000 PSI (MIN)  
ALLOWABLE BENDING STRESS (Fb) = 2,600 PSI (MIN)  
ALLOWABLE SHEAR STRESS (Fv) = 285 PSI (MIN)  
POSTS AND COLUMNS (LVL & PSL):  
E = 1,800,000 PSI (MIN)  
Fb = 2,400 PSI (MIN)  
Fv = 190 PSI (MIN)
- PRESERVATIVE TREATED (PT) LUMBER: NO. 2 GRADE OR BETTER SOUTHERN PINE (SP OR SYP) TREATED WITH MICRONIZED COPPER AZOLE (MCA) OR ALKALINE COPPER QUATERNARY (ACQ). PRESERVATIVE CONTENT AS SPECIFIED BY AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) FOR SERVICE CONDITION USE: ABOVE GROUND EXTERIOR OR GROUND CONTACT. USE ONLY HOT-DIP GALVANIZED OR STAINLESS STEEL NAILS AND FASTENERS, OR COATED FASTENERS APPROVED FOR USE IN PT LUMBER AND EXTERIOR APPLICATION.  
FLOORS: 3/4 INCH NOMINAL TONGUE & GROOVE (T&G) GLUED TO ALL FRAMING AND USE RING SHANK OR ANNULAR NAILS.  
ROOFS: 5/8 INCH NOMINAL USE T&G FOR 24" O.C. FRAMING.  
WALLS: 1/2 INCH NOMINAL.  
NAIL SHEATHING AND SUBFLOOR TO ALL FRAMING AND BLOCKING USING GALVANIZED 8d BOX NAILS 0.113"x2 3/8" (MIN) OR BRIGHT 8d COMMON NAILS 0.131"x2 1/2" (MIN, UNO) AS FOLLOWS:  
FLOORS: 6" O.C. PANEL EDGES, 12" O.C. WITHIN PANELS.  
ROOFS: 4" O.C. PANEL EDGES, 8" O.C. WITHIN PANELS.  
WALLS: 6" O.C. PANEL EDGES, 12" O.C. WITHIN PANELS
- SHEATHING & SUBFLOOR: PLYWOOD OR OSB WOOD STRUCTURAL PANELS STAMPED RATED SHEATHING. EXPOSURE 1. APPLY SHEATHING WITH LONG EDGES AND FACE GRAIN PERPENDICULAR TO FRAMING.  
NAIL BUILT-UP LUMBER BEAMS, HEADERS, AND POSTS AS FOLLOWS:  
BEAMS AND HEADERS: (3) ROWS 12d BOX NAILS @ 12" O.C. IN EACH PIECE.  
POSTS AND COLUMNS: (2) ROWS 12d BOX NAILS @ 8" O.C. IN EACH PIECE.
- FASTENING NOT SPECIFIED IN THESE NOTES OR ON THE DRAWINGS SHALL CONFORM TO THE FASTENING SCHEDULE AND TABLES IN IBC OR IRC CODES AS REQUIRED BY THE PROJECT TYPE. FASTENERS SHALL CONFORM TO:  
NAILS: ASTM F1667  
THROUGH BOLTS: ANSI B18.2.1 WITH HEX HEAD & NUT AND WASHER AGAINST WOOD.  
LAG SCREWS: ANSI B18.2.1 WITH HEX HEAD & WASHER.  
HOLE FOR BOLT OR LAG SCREW TO BE 1/32" TO 1/16" LARGER IN DIAMETER THAN BOLT OR LAG SCREW SHANK. LEAD HOLE FOR LAG SCREW THREADS:  
A. 60% TO 75% OF SHANK DIAMETER FOR SP OR SYP, LVL & PSL  
B. 40% TO 70% OF SHANK DIAMETER FOR SPF.
- ALL WOOD FRAMING CONNECTION HARDWARE (JOIST HANGERS, POST BASES, SHEARWALL HOLDDOWNS, ETC.) TO BE MANUFACTURED BY SIMPSON STRONG-TIE, OR APPROVED EQUAL (SUBMIT DATA). ALL CONNECTION HARDWARE SHALL BE ZINC COATED G-90 (MIN). CONNECTION HARDWARE USED WITH PRESERVATIVE TREATED LUMBER (PT) AND/OR EXTERIOR APPLICATION SHALL BE GALVANIZED G185 (ZMAX). USE FASTENERS OF SAME MATERIAL & COATING AS CONNECTOR AS SPECIFIED BY MANUFACTURER. REFER TO MANUFACTURER'S LITERATURE FOR PROPER CONNECTOR HANDLING AND INSTALLATION GUIDELINES.
- FASTENERS USED WITH PT LUMBER AND EXTERIOR EXPOSED FRAMING (OTHER THAN THOSE IN SIMPSON OR EQUAL CONNECTORS) SHALL BE HOT-DIPPED GALVANIZED INCLUDING NUTS AND WASHERS (ASTM A153).
- LOAD BEARING STUD WALLS CAPPED WITH DOUBLE TOP PLATES HAVING END JOINTS OFFSET OVERLAPPED 4'-0" (MIN) AND NAILED WITH (12) 10d OR 12d SPACED @ 8" O.C. OVERLAP TOP PLATES AT CORNERS AND INTERSECTIONS AND NAIL WITH (4) 10d OR 12d.
- PROVIDE BLOCKING UNDER POSTS MATCHING SIZE OF POST. PROVIDE POST OF MATCHING MATERIAL AND SIZE UNDERNEATH POST & BLOCKING WHERE ABOVE A STUD WALL (U.N.O.).
- HOLES IN FRAMING FOR ELECTRICAL, PLUMBING, HEATING, AND MECHANICAL COMPONENTS MUST MEET THE GUIDELINES AND REQUIREMENTS IN THE IBC AND IRC CODES FOR LUMBER. HOLES IN LVL, PSL, LSL, AND I-JOISTS MUST MEET THE GUIDELINES AND REQUIREMENTS OF THE MANUFACTURER.

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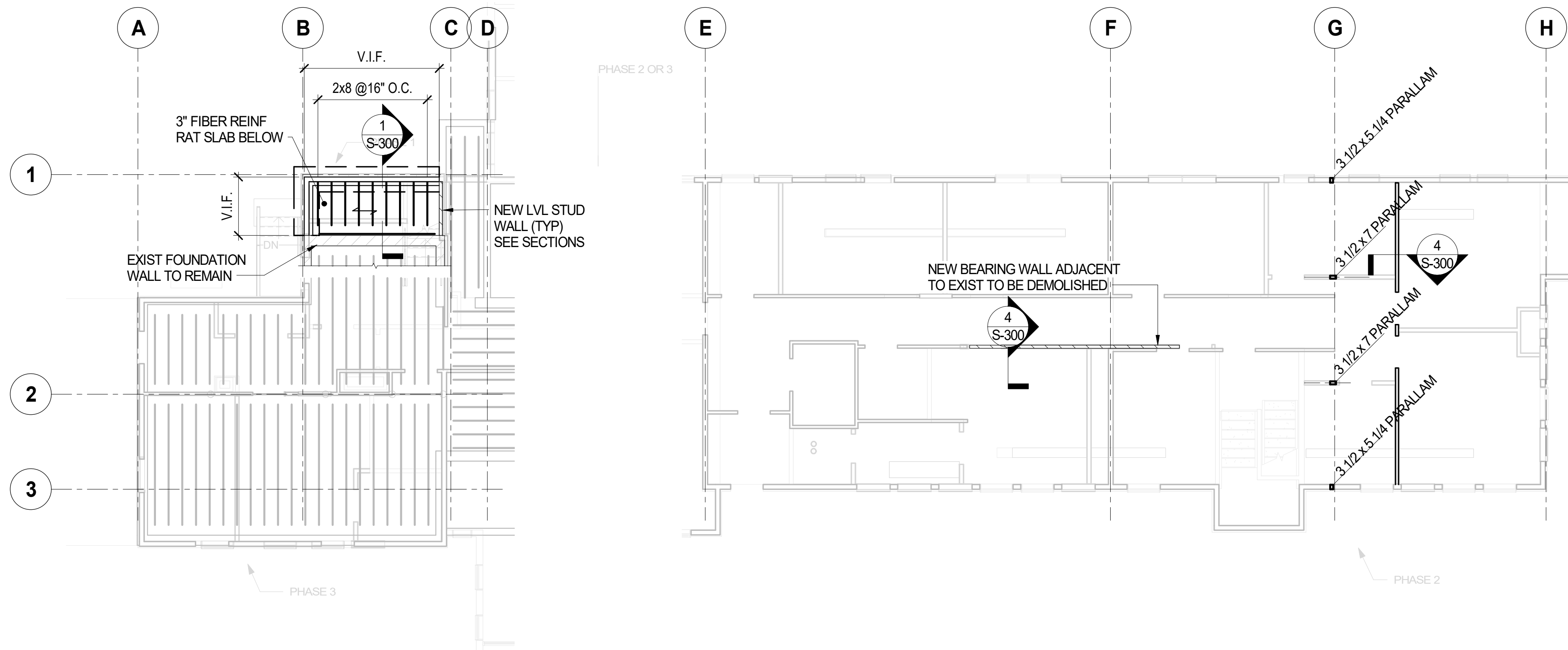
**Thornton Tomasetti**  
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14 York Street, Suite 201  
Portland, ME 04101  
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**HARRINGTON FAMILY HEALTH CENTER**  
**DENTISTRY RENOVATION**

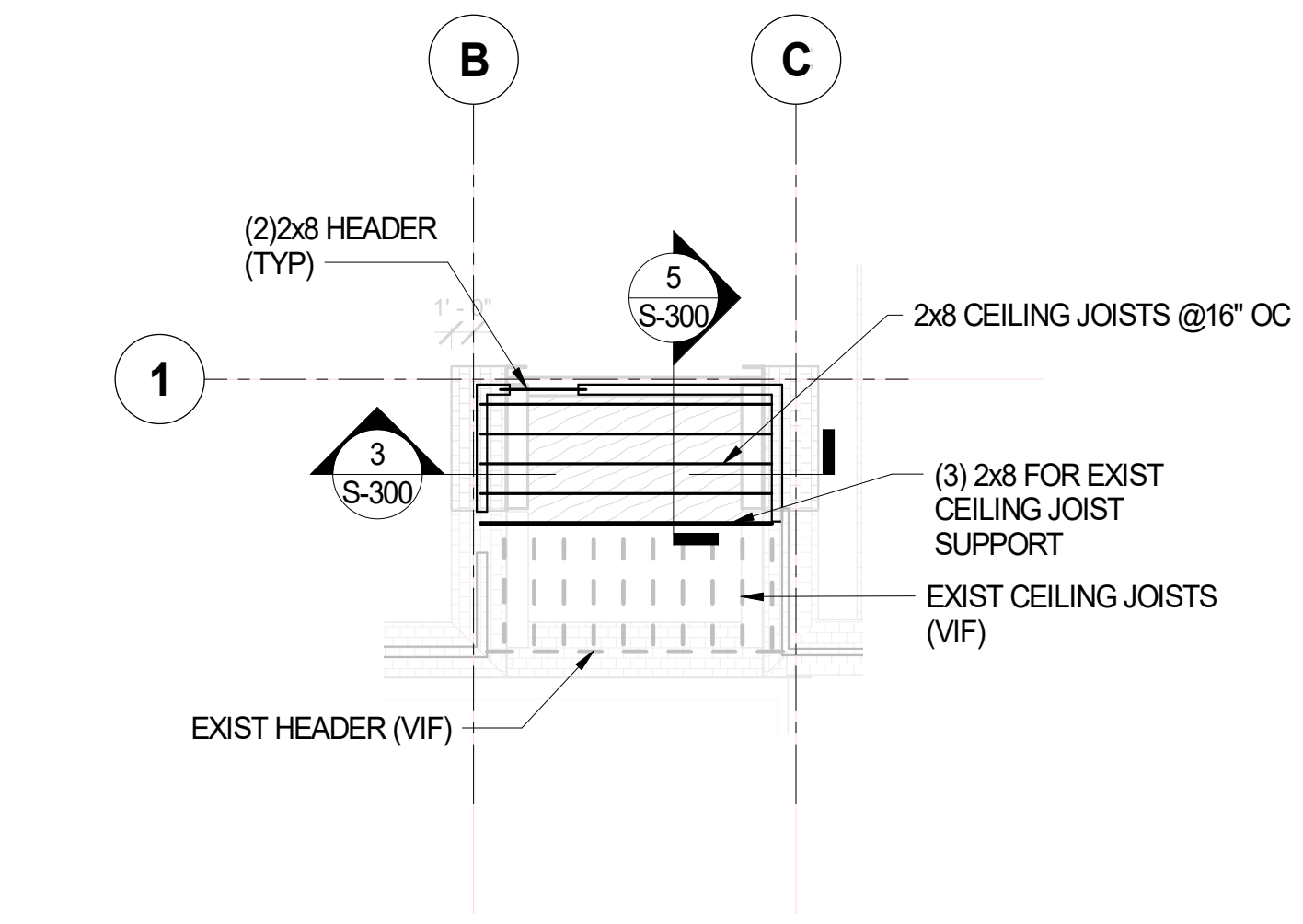
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GENERAL NOTES

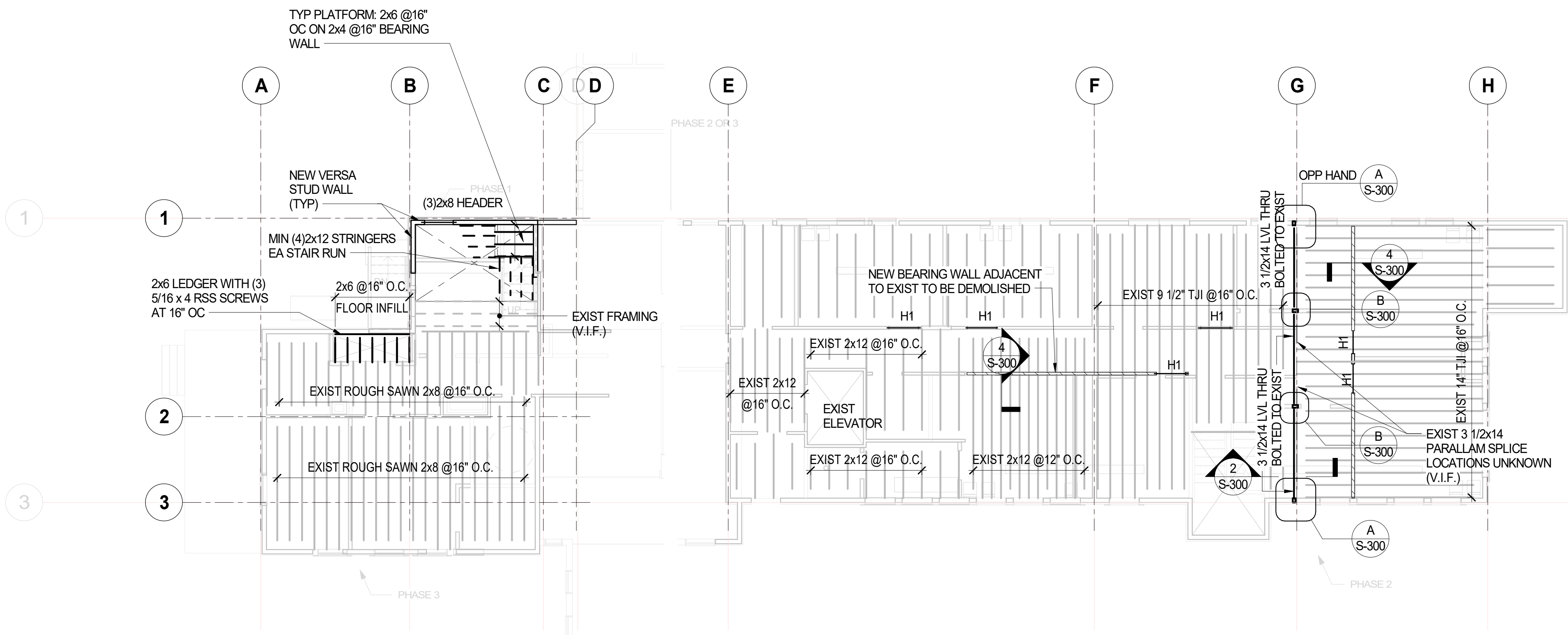
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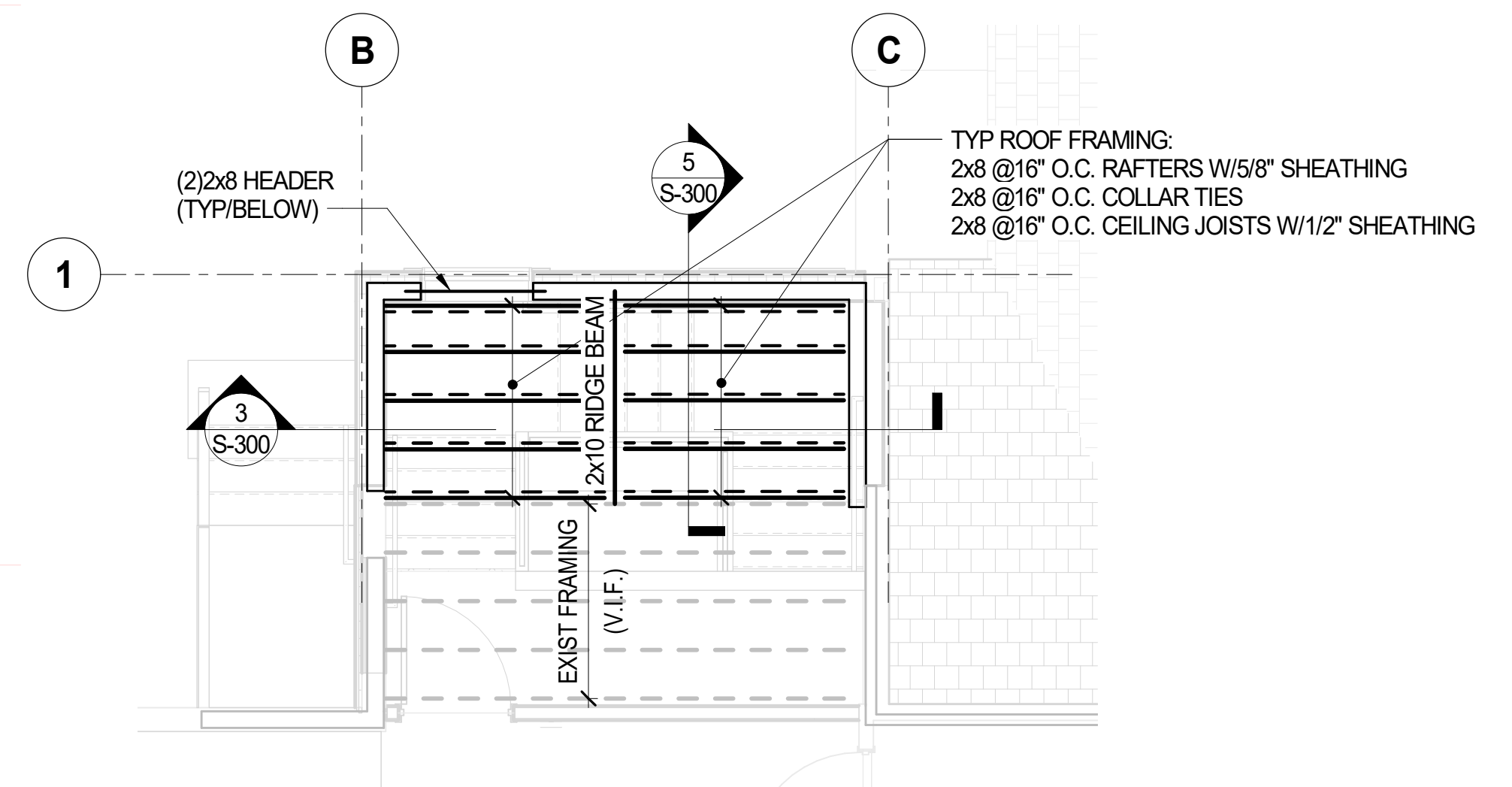
**1 PARTIAL FOUNDATION / FIRST FLOOR FRAMING PLANS**  
SCALE: 1/8" = 1'-0"



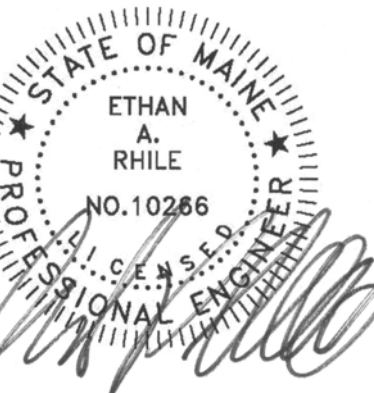
**3 ATTIC/CEILING LEVEL PLAN**  
SCALE: 1/8" = 1'-0"

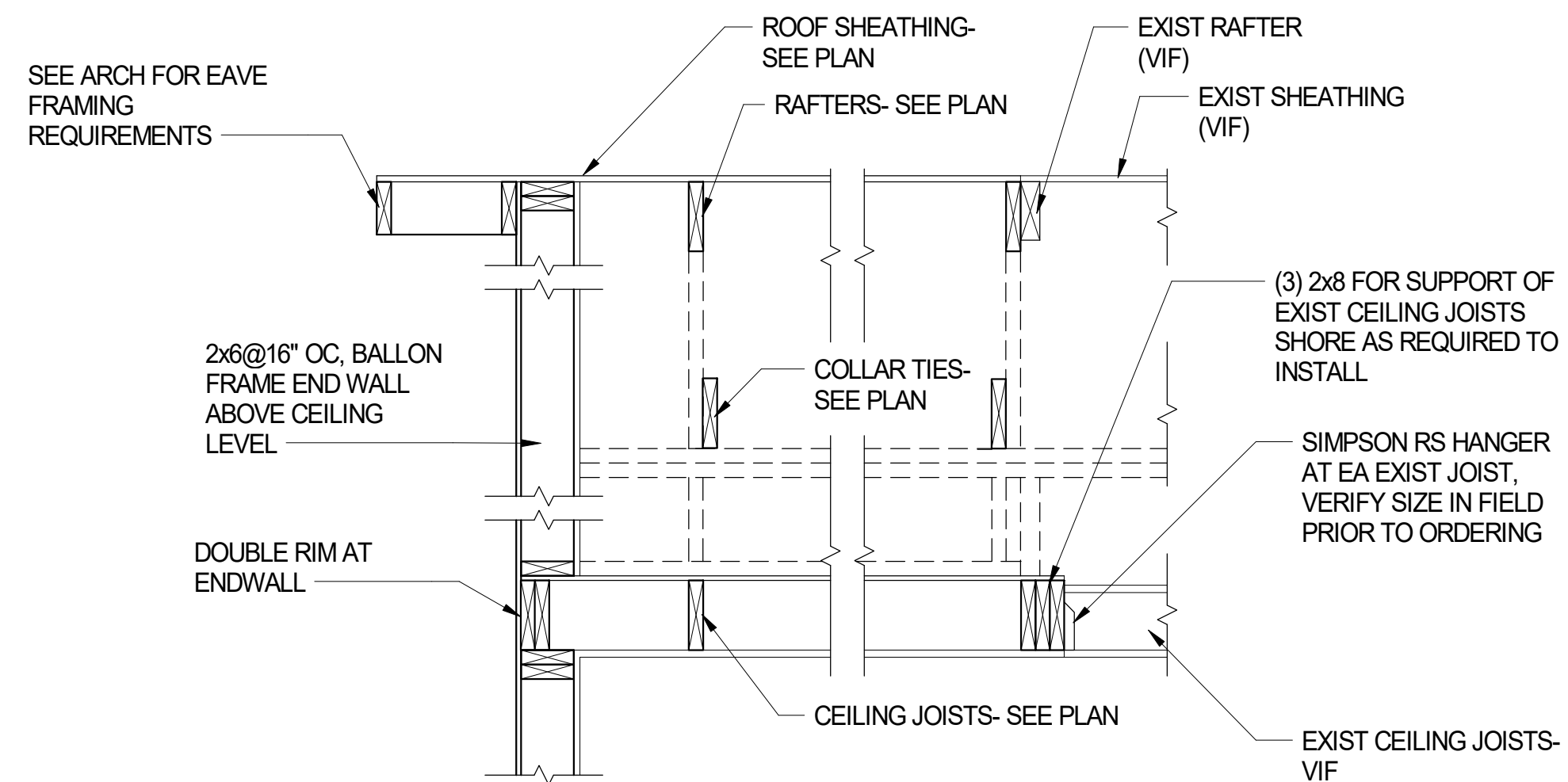
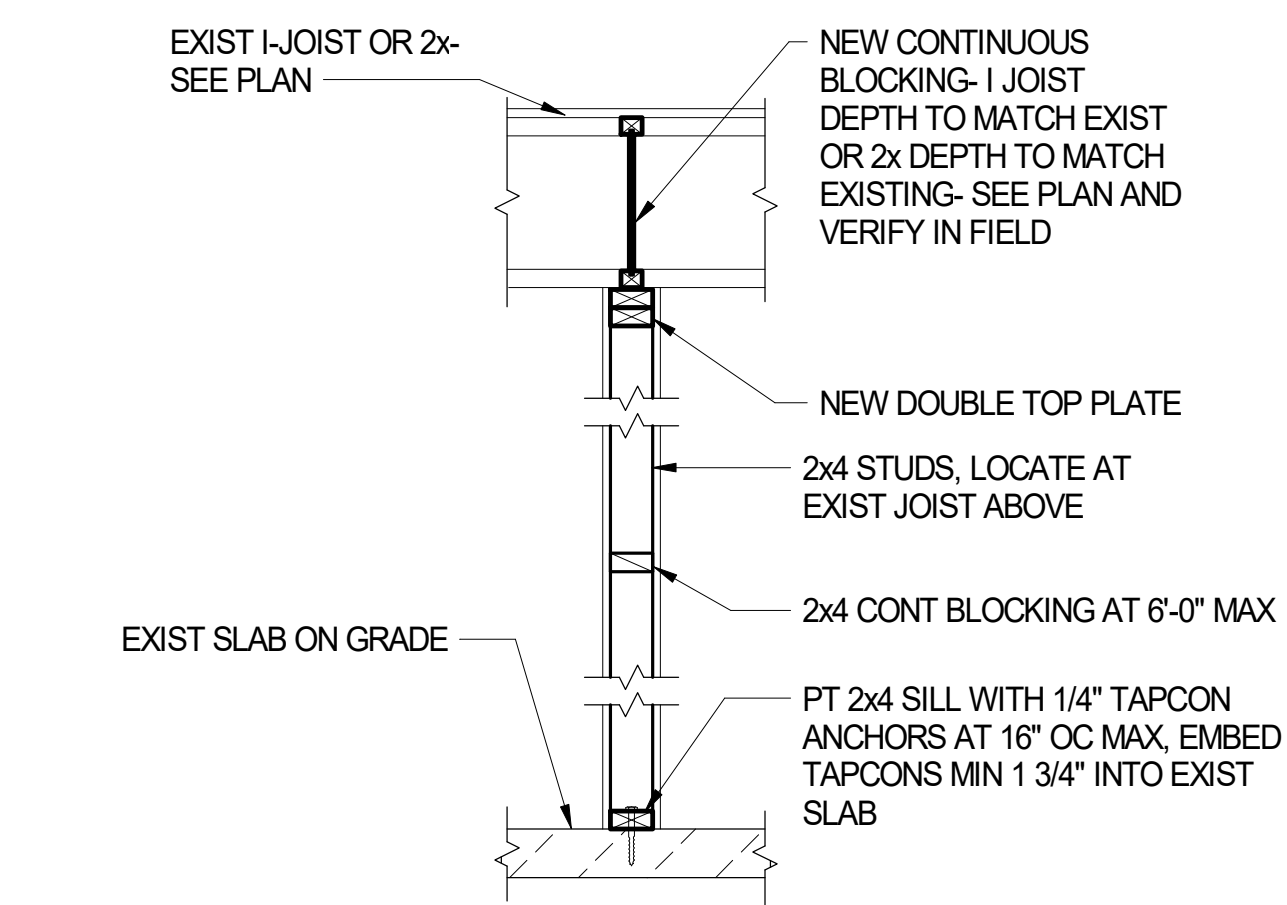
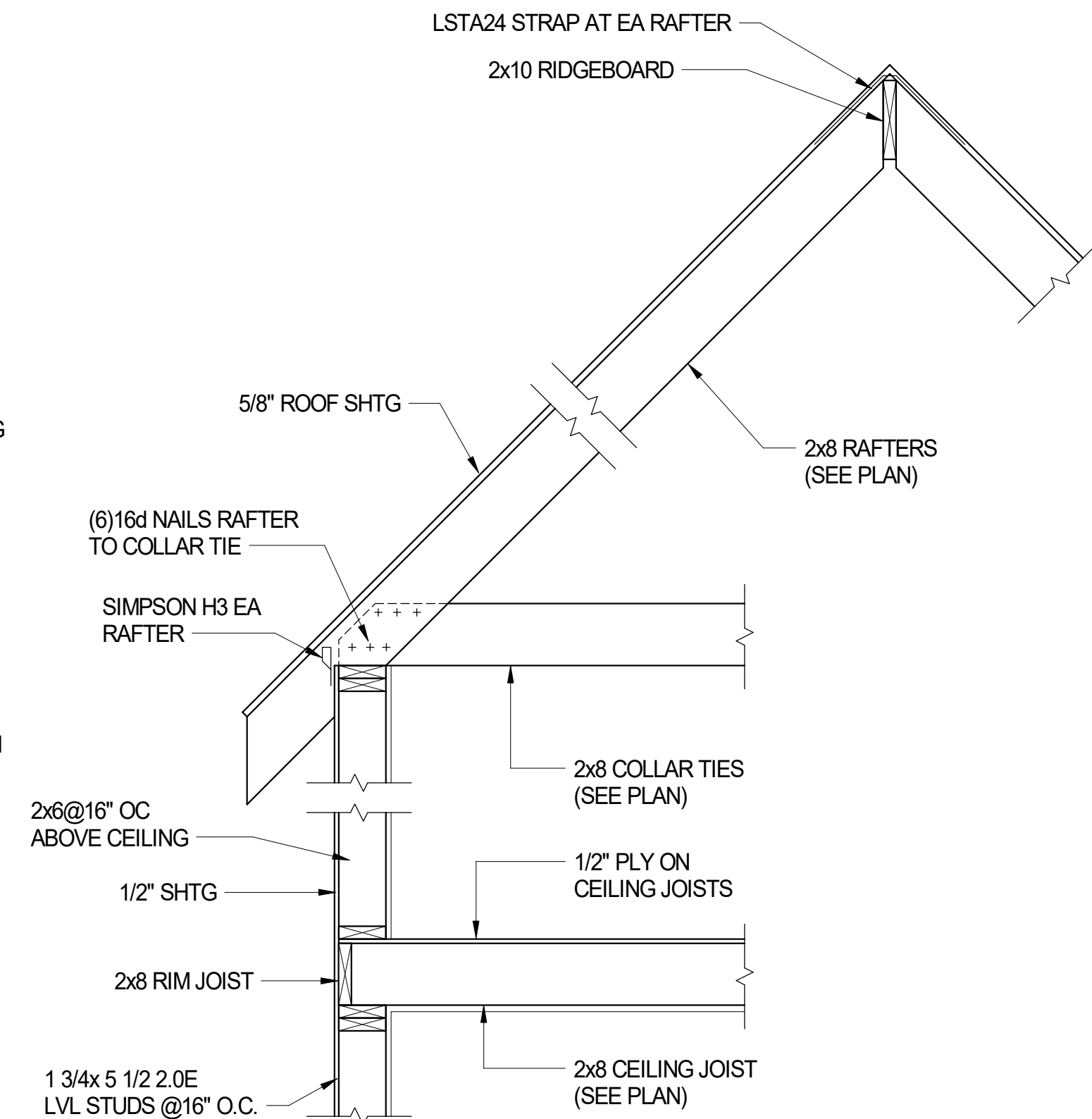
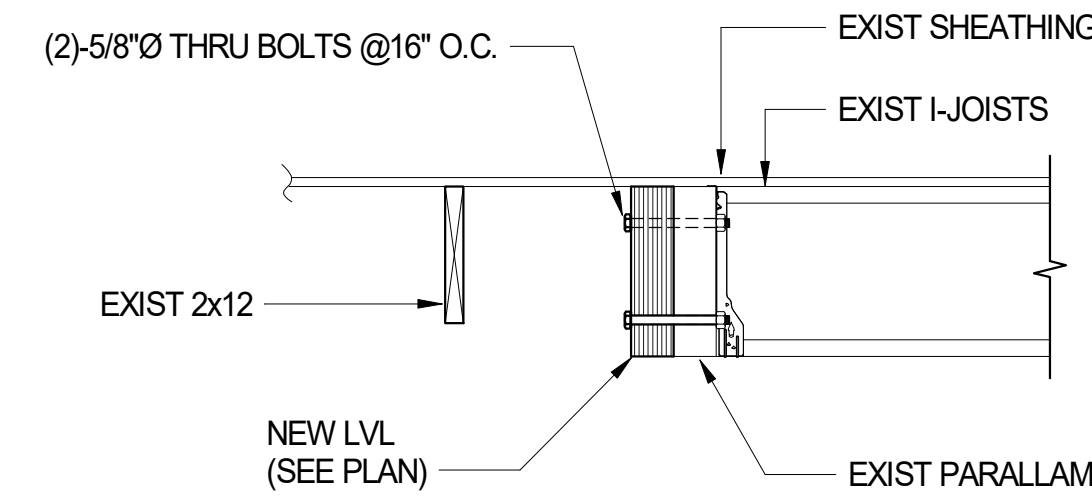
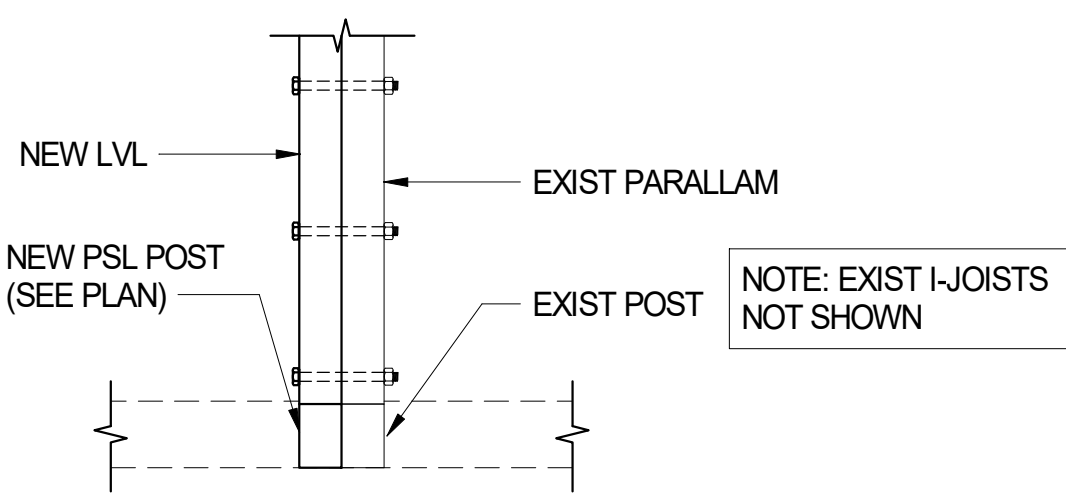
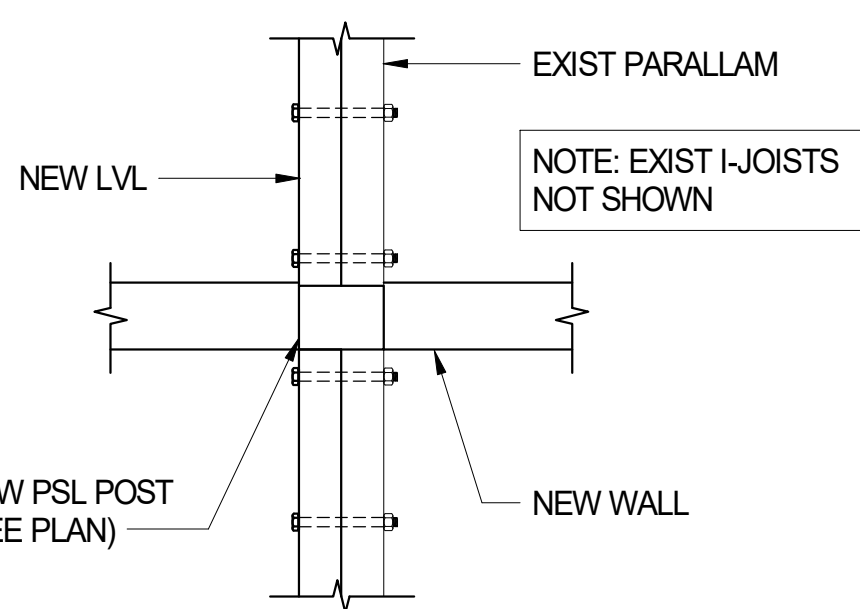
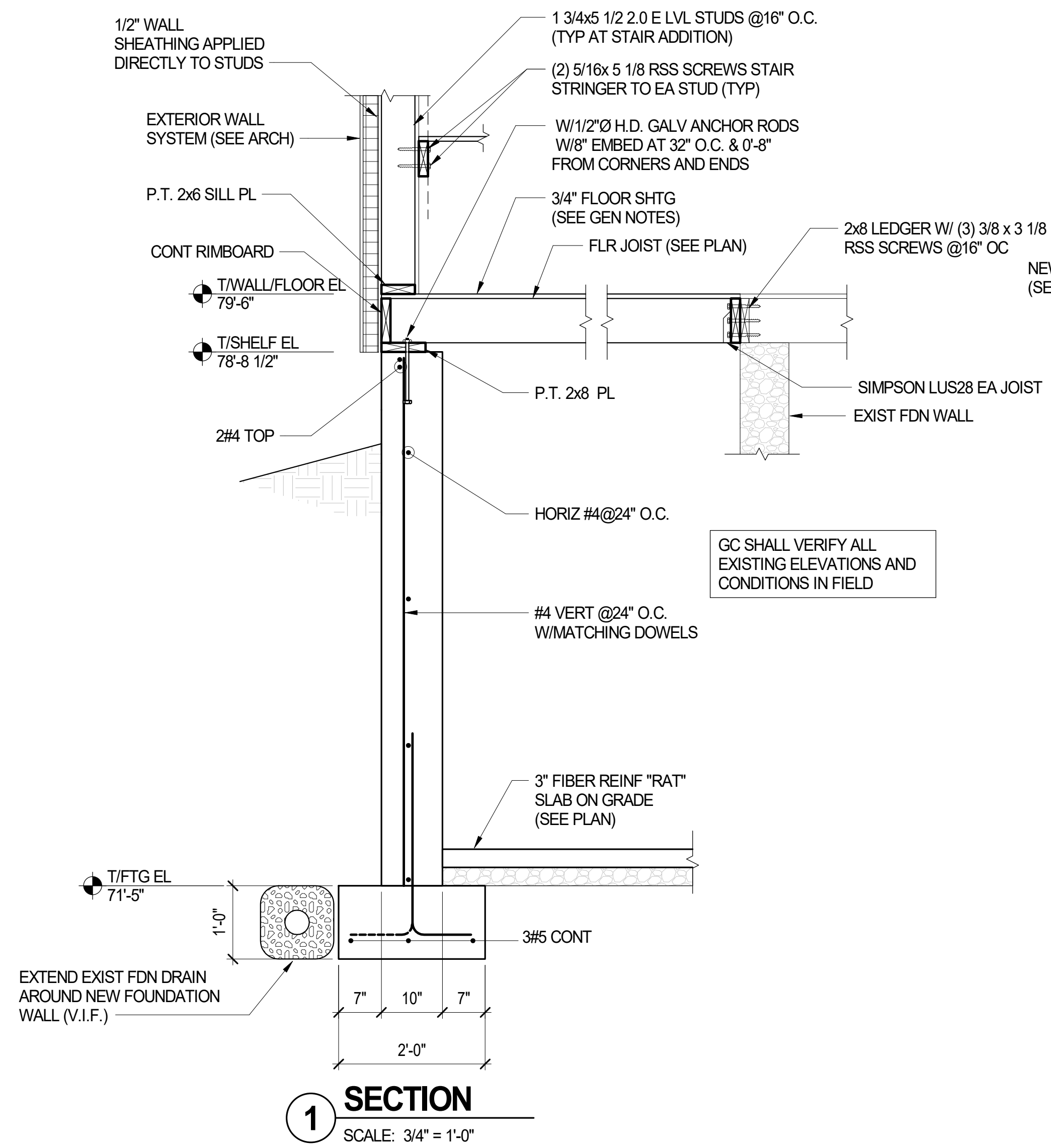


**2 SECOND FLOOR FRAMING PLAN**  
SCALE: 1/8" = 1'-0"

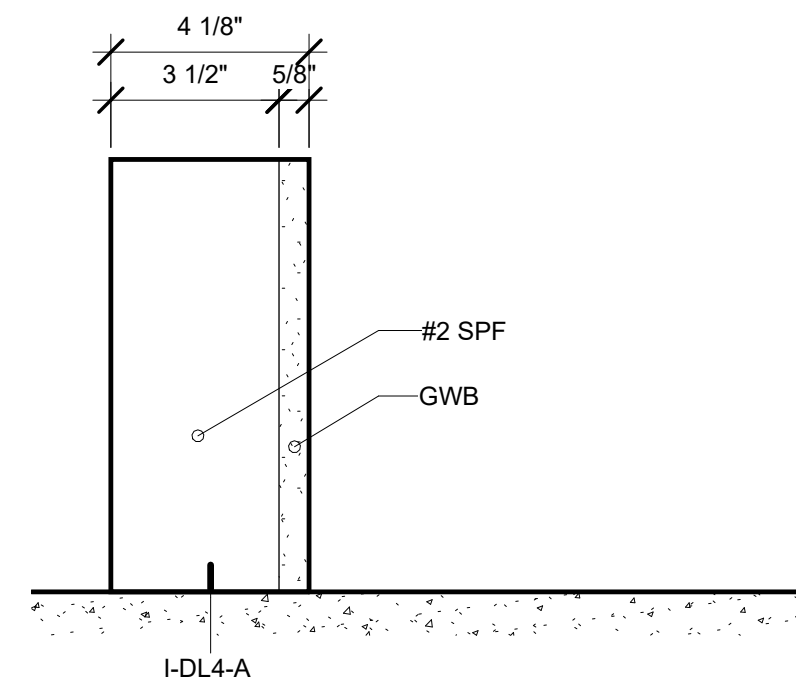


**4 ROOF FRAMING PLAN**  
SCALE: 1/4" = 1'-0"

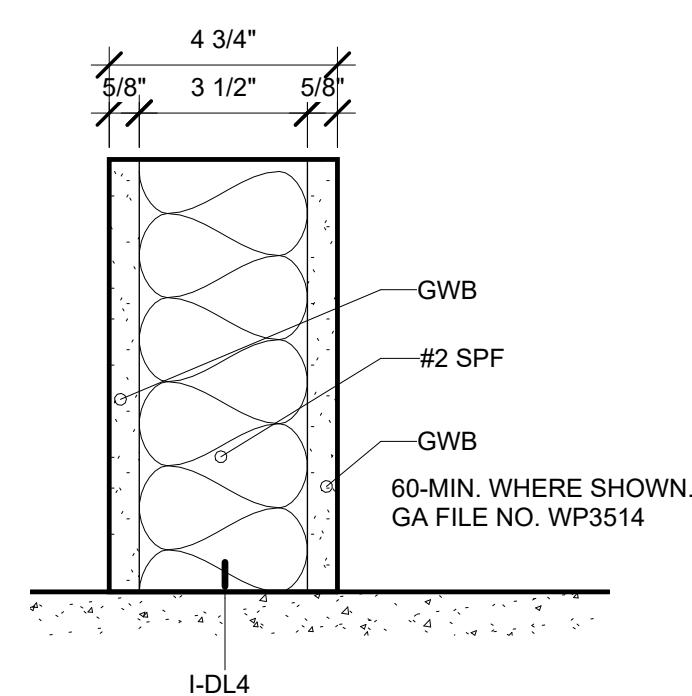




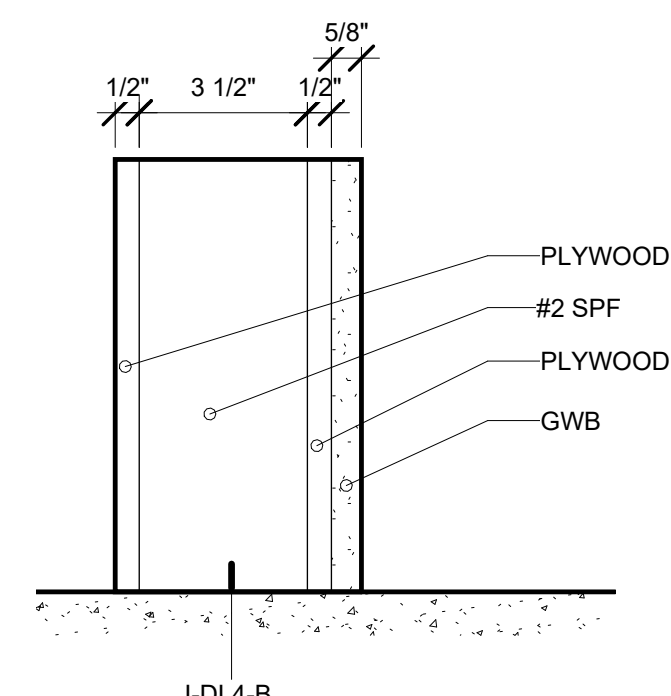
HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION



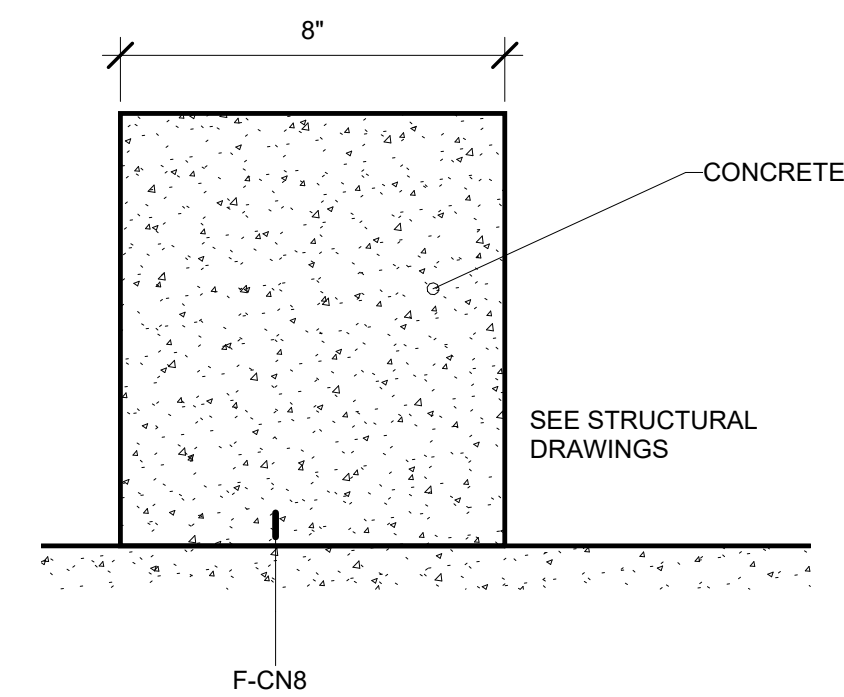
4 WALL I-DL4-A  
3" = 1'-0"



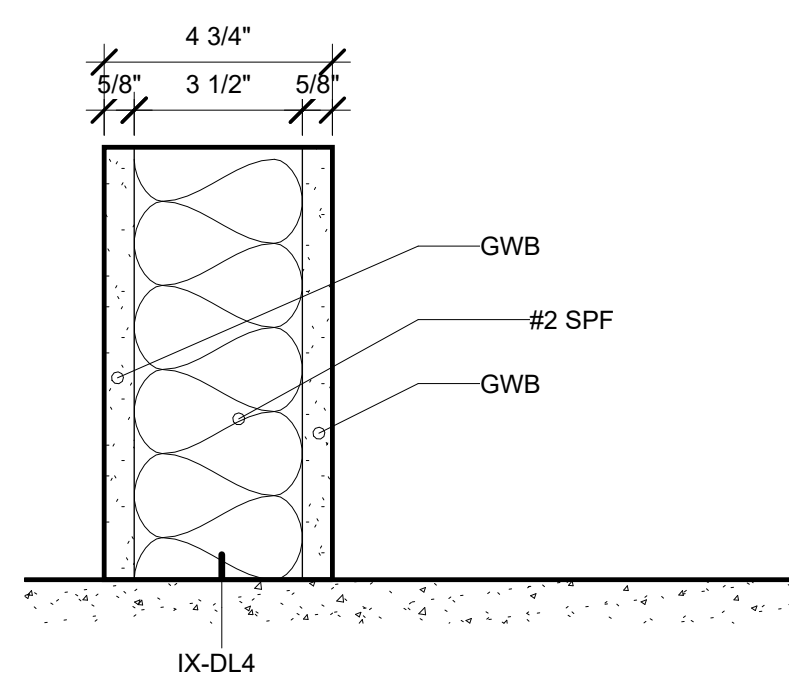
3 WALL I-DL4  
3" = 1'-0"



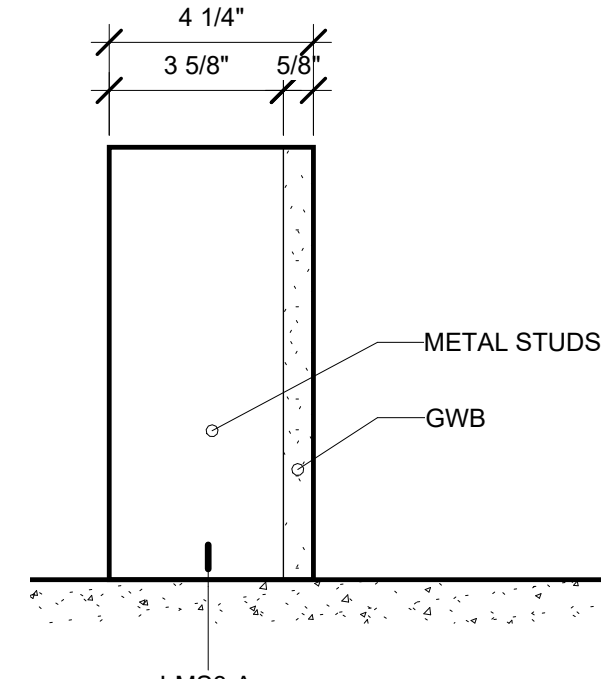
2 WALL I-D4-B  
3" = 1'-0"



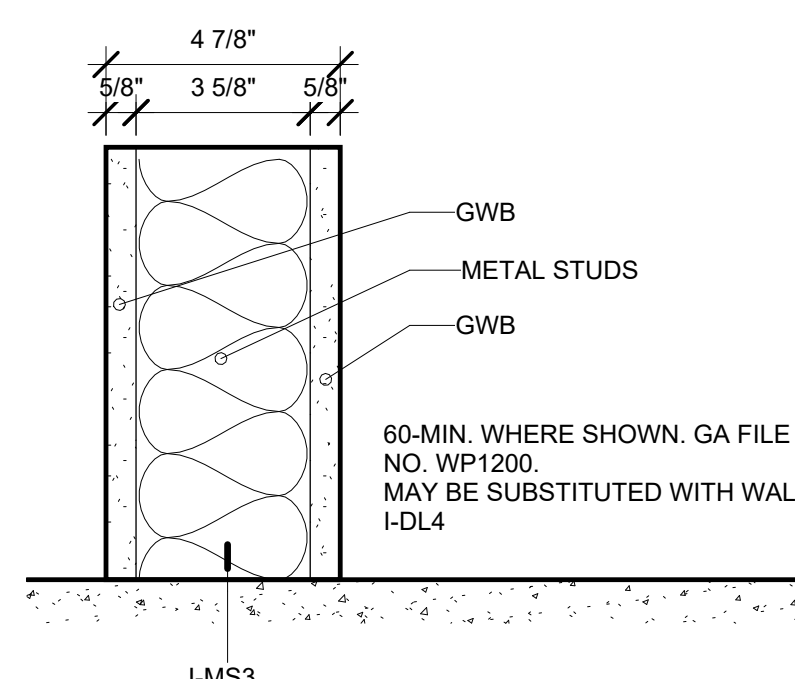
1 WALL F-CN8  
3" = 1'-0"



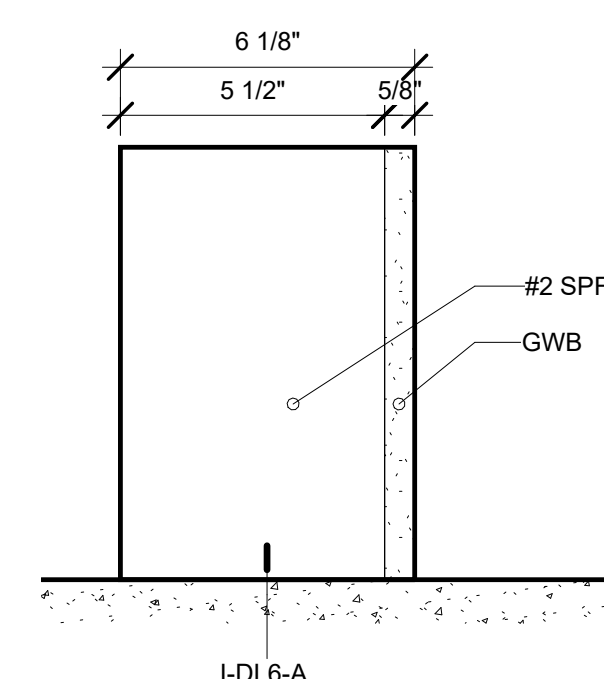
8 WALL IX-DL4  
3" = 1'-0"



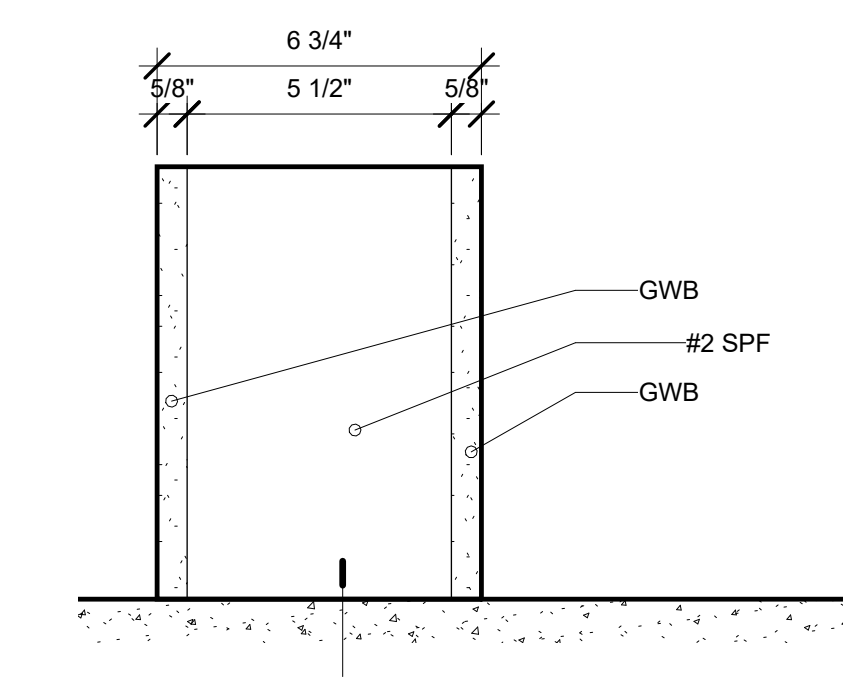
7 WALL I-MS3-A  
3" = 1'-0"



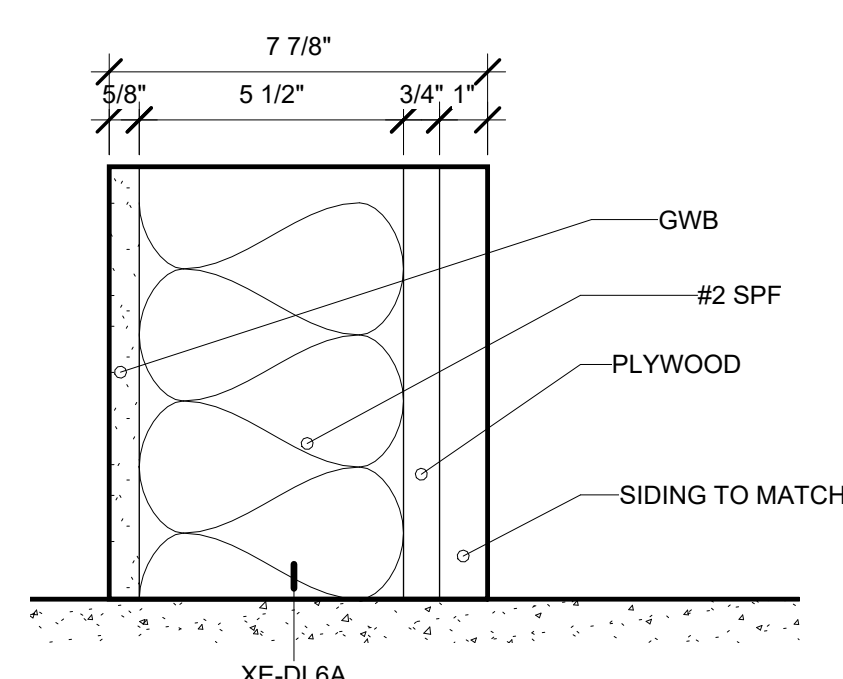
6 WALL I-MS3  
3" = 1'-0"



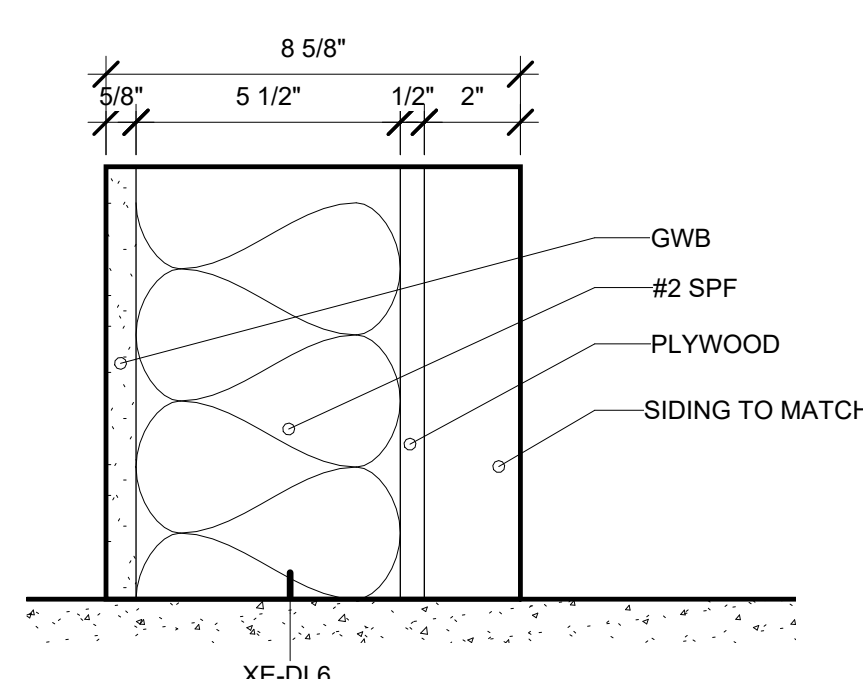
5 WALL I-DL6-A  
3" = 1'-0"



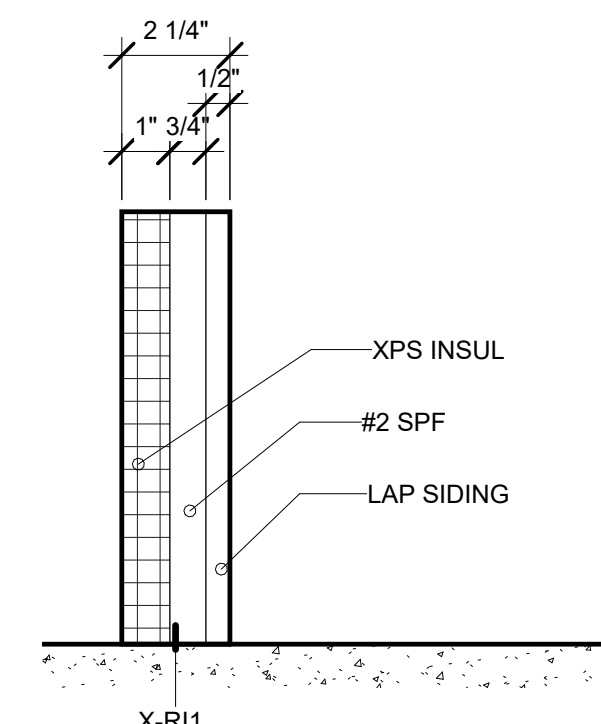
13 WALL XI-DL6  
3" = 1'-0"



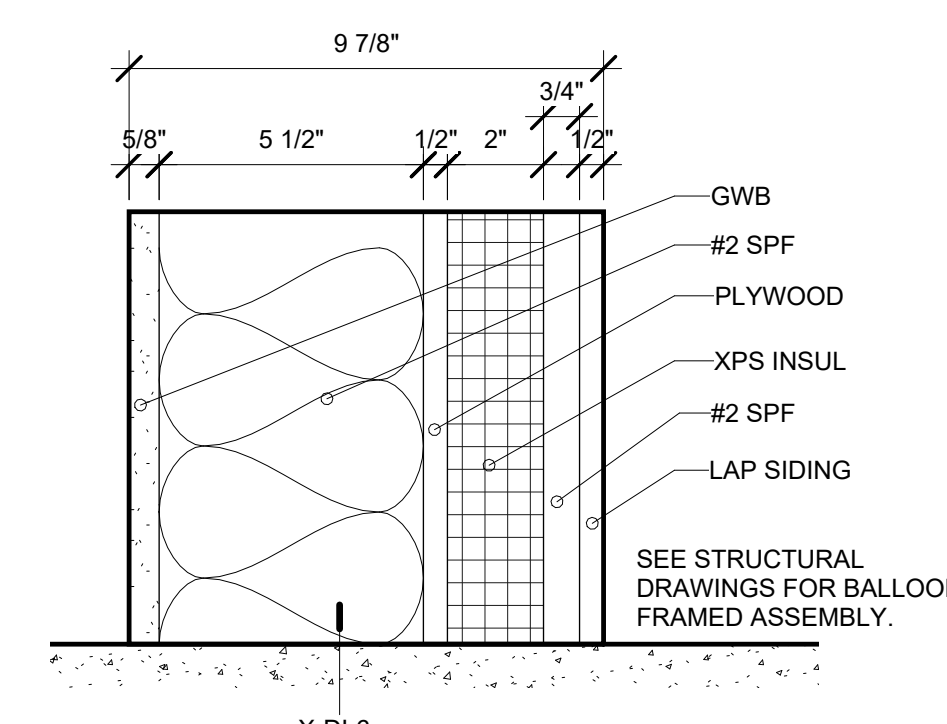
12 WALL XE-DL6A  
3" = 1'-0"



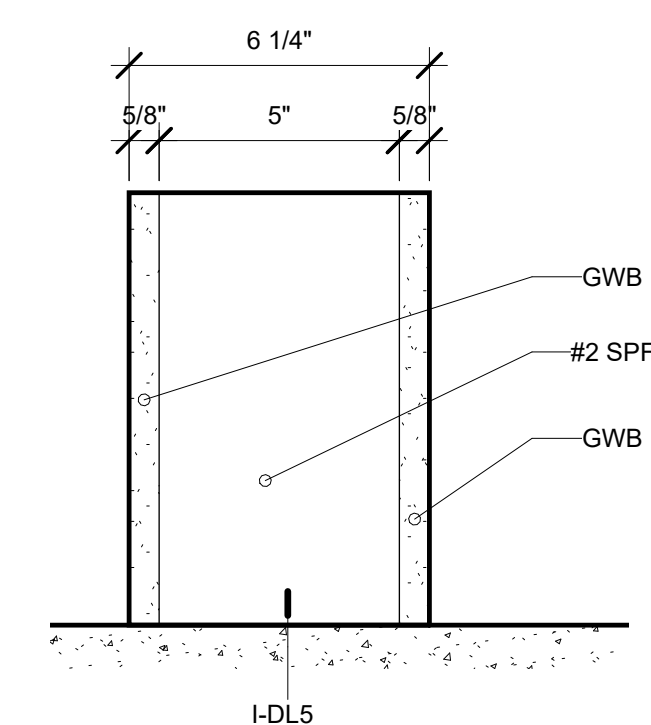
11 WALL XE-DL6  
3" = 1'-0"



10 WALL X-R11  
3" = 1'-0"



9 WALL X-DL6  
3" = 1'-0"



14 WALL I-DL5  
3" = 1'-0"

B2010 WALLS ALL			
TYPE MARK	FUNCTION	AREA	DESCRIPTION
(E) F-CN8	Exterior	1167 SF	
F-CN8	Exterior	4276 SF	FOUNDATION
I-DL4	Interior	641 SF	WOOD PARTITION
I-DL4-A	Interior	82 SF	WOOD PARTITION
I-DL4-B	Interior	72 SF	STAIR PONY WALLS
I-DL5	Interior	34 SF	LANDING PONY WALL
I-DL6-A	Interior	105 SF	WOOD PARTITION
I-MS3	Interior	1079 SF	METAL STUD PARTITION
I-MS3-A	Interior	78 SF	METAL STUD PARTITION
IX-DL4	Interior	93 SF	INFILL WALL
X-DL6	Exterior	435 SF	EXTERIOR WALL
X-R11	Exterior	103 SF	EXTERIOR SIDING
XE-DL6	Exterior	211 SF	INFILL WALL
XE-DL6A	Exterior	65 SF	INFILL WALL
XI-DL6	Interior	18 SF	INFILL WALL
Grand total:		121	8584 SF

INTERIOR WALL AND CEILING FINISH TESTING AND CLASSIFICATION: ACCORDING TO ASTM E 84, STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.  
 INTERIOR FLOOR FINISH TESTING AND CLASSIFICATION: ACCORDING TO ASTM E 648, STANDARD TEST METHOD FOR CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS USING A RADIANT HEAT ENERGY SOURCE.  
 CARPET: ASTM D 2859, STANDARD TEST METHOD FOR IGNITION CHARACTERISTICS OF FINISHED TEXTILE FLOOR COVERING MATERIALS.

ASSEMBLY NOTES  
12" = 1'-0"

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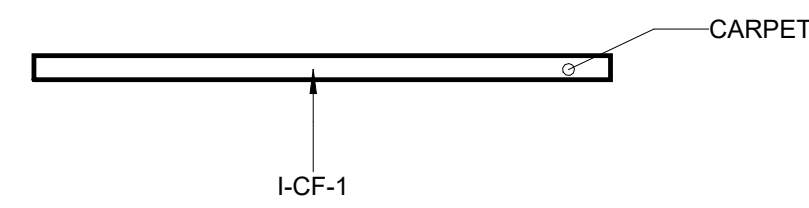
ARCHITECT PROJECT #  
662

HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION

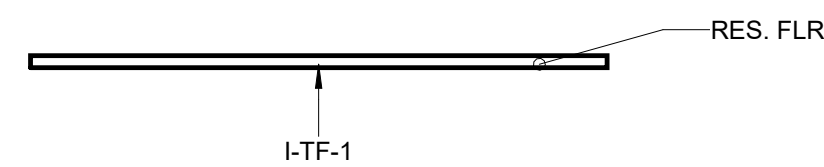
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VERTICAL  
ASSEMBLIES

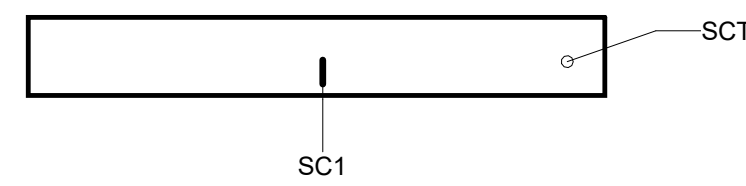
A-010



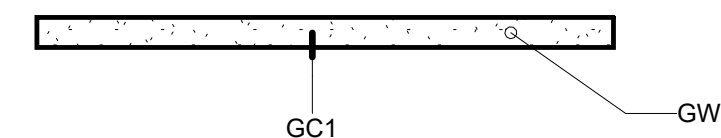
4 FLOOR I-CF-1  
3" = 1'-0"



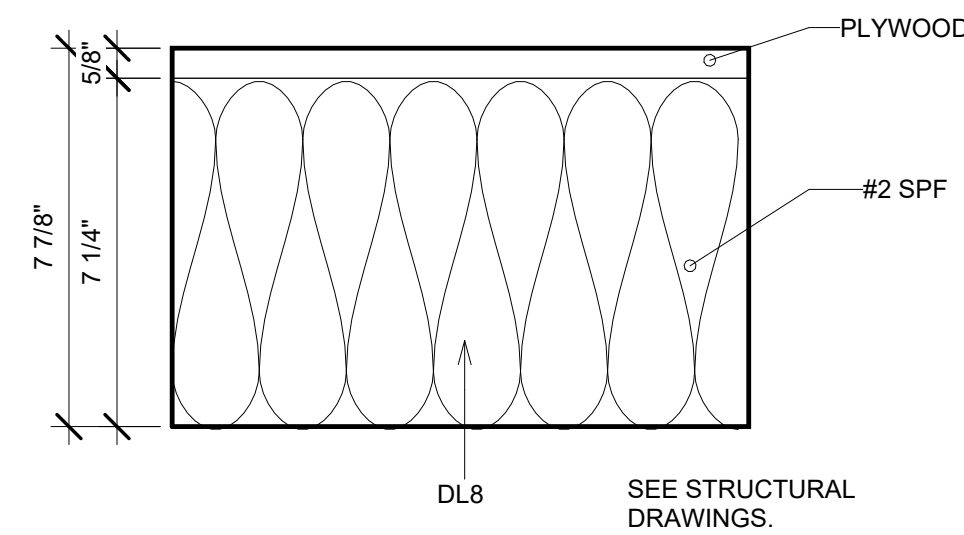
3 FLOOR I-TF-1  
3" = 1'-0"



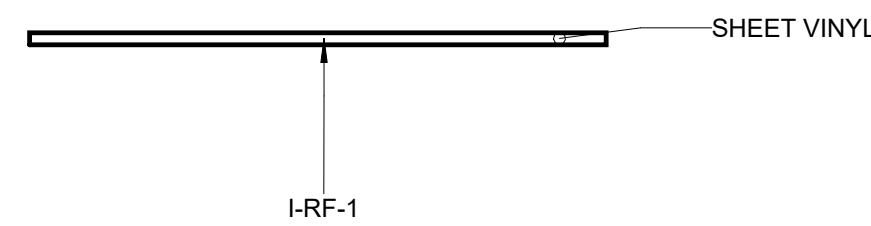
2 CEILING SC1  
3" = 1'-0"



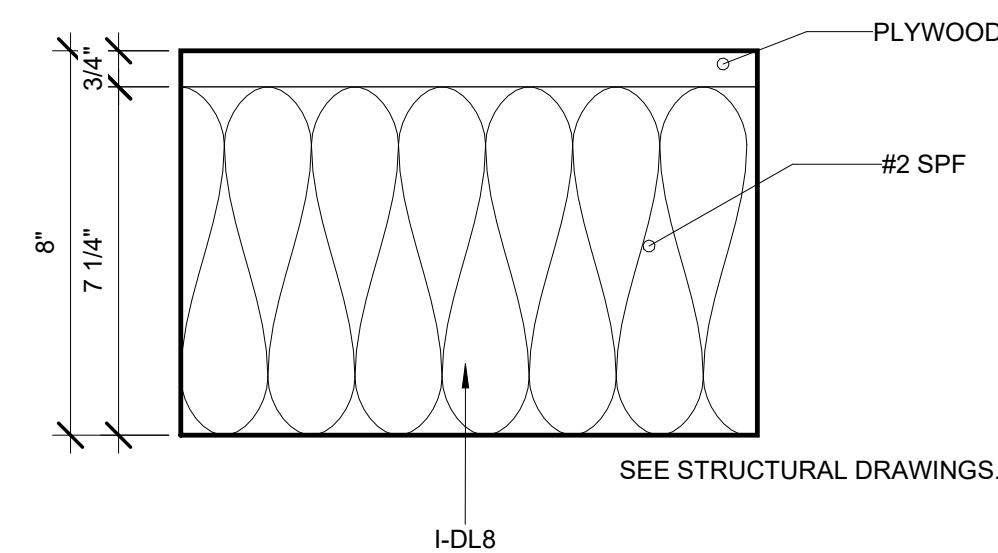
1 CEILING GC1  
3" = 1'-0"



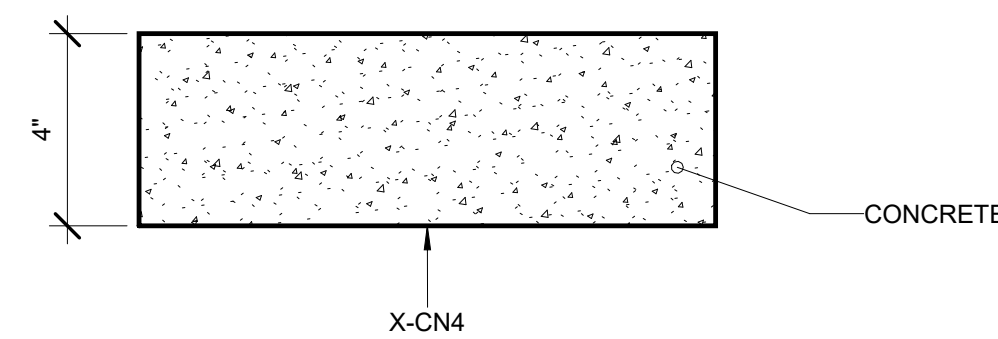
7 ROOF DL8  
3" = 1'-0"



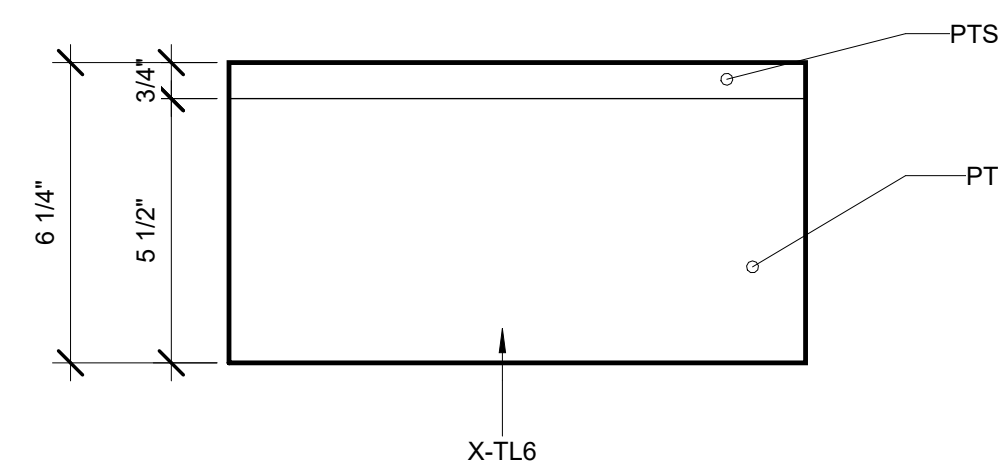
6 FLOOR I-RF-1  
3" = 1'-0"



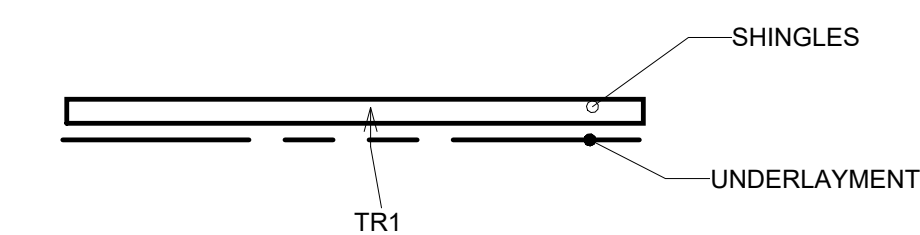
5 FLOOR I-DL8  
3" = 1'-0"



11 FLOOR X-CN4  
3" = 1'-0"



10 FLOOR X-TL6  
3" = 1'-0"

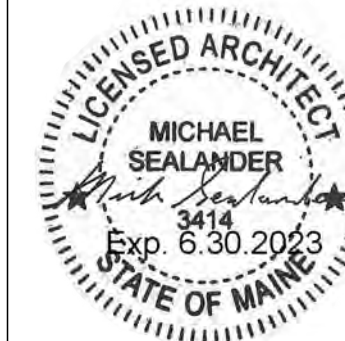


9 ROOF TR1  
3" = 1'-0"

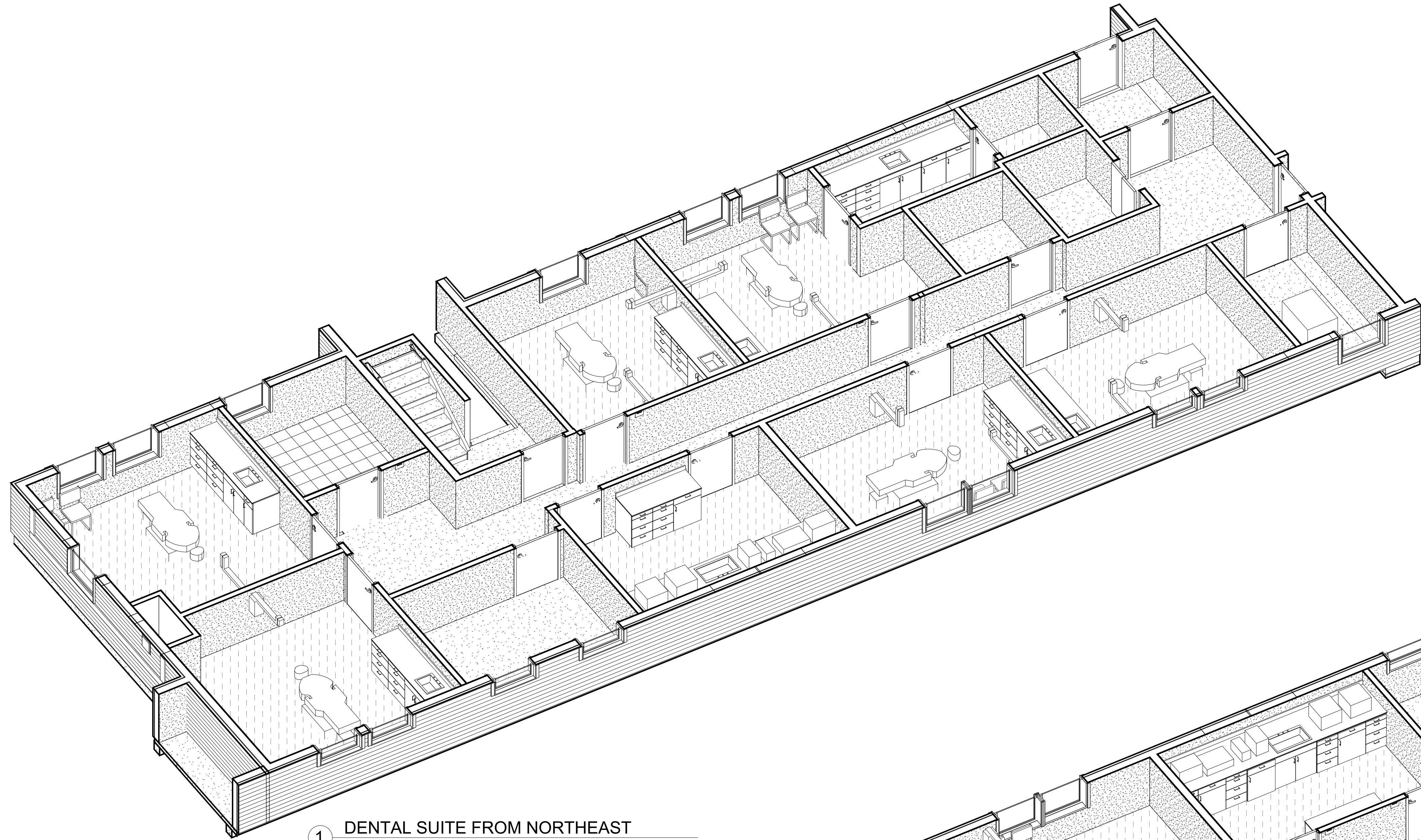
C3030 CEILINGS			
TYPE MARK	ASSEMBLY CODE	AREA	DESCRIPTION
GC1	C3030310	232 SF	
SC1	C3030210	3289 SF	
Grand total: 30		3501 SF	

B1010 FLOORS ALL			
TYPE MARK	FUNCTION	AREA	DESCRIPTION
	Interior	53 SF	4" SLAB
I-CF-1	Interior	1528 SF	CARPET
I-CN4	Interior	11 SF	4" SLAB
I-DL8	Interior	113 SF	2X10 AT 16
I-RF-1	Interior	1493 SF	SHEET
I-TF-1	Interior	540 SF	RUBBER TILE
X-CN4	Interior	12 SF	4" SLAB
X-TL6	Interior	22 SF	LANDING
Grand total: 30		3773 SF	

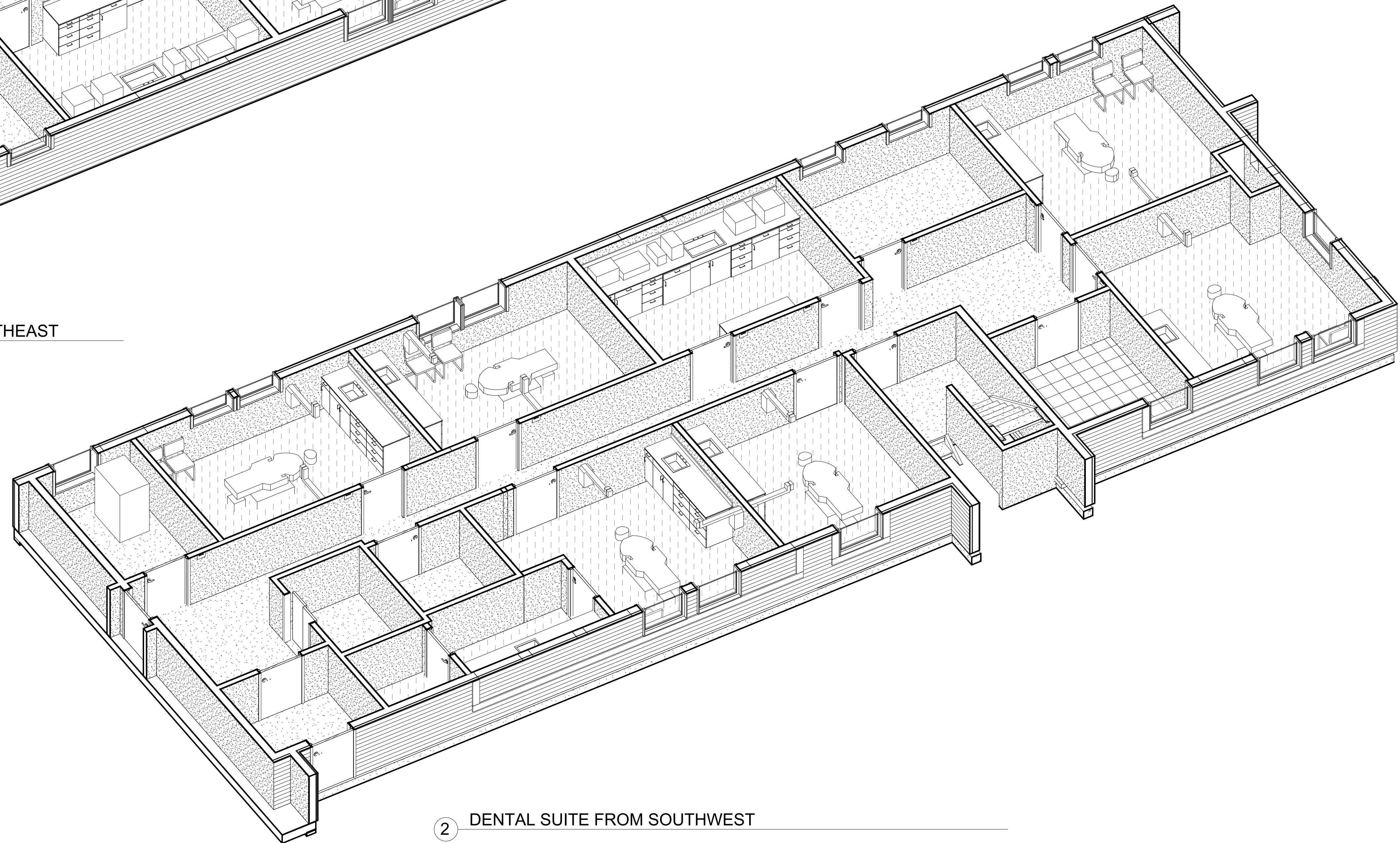
B30 ROOFS ALL			
TYPE MARK	ASSEMBLY CODE	AREA	DESCRIPTION
DL8	B1020400	199 SF	2X8 FRAMING
TR1	B3010150	234 SF	
Grand total: 4		433 SF	





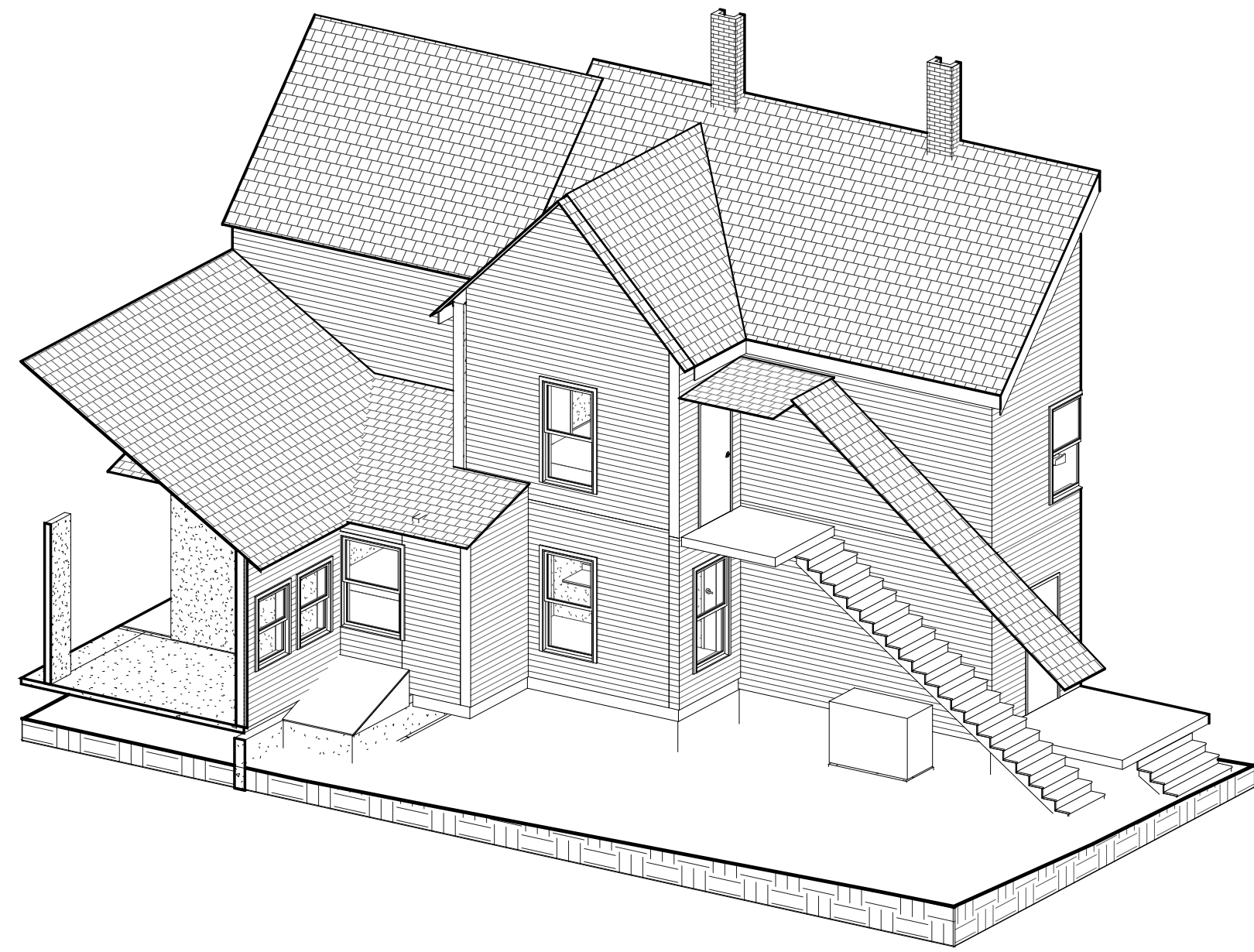


1 DENTAL SUITE FROM NORTHEAST

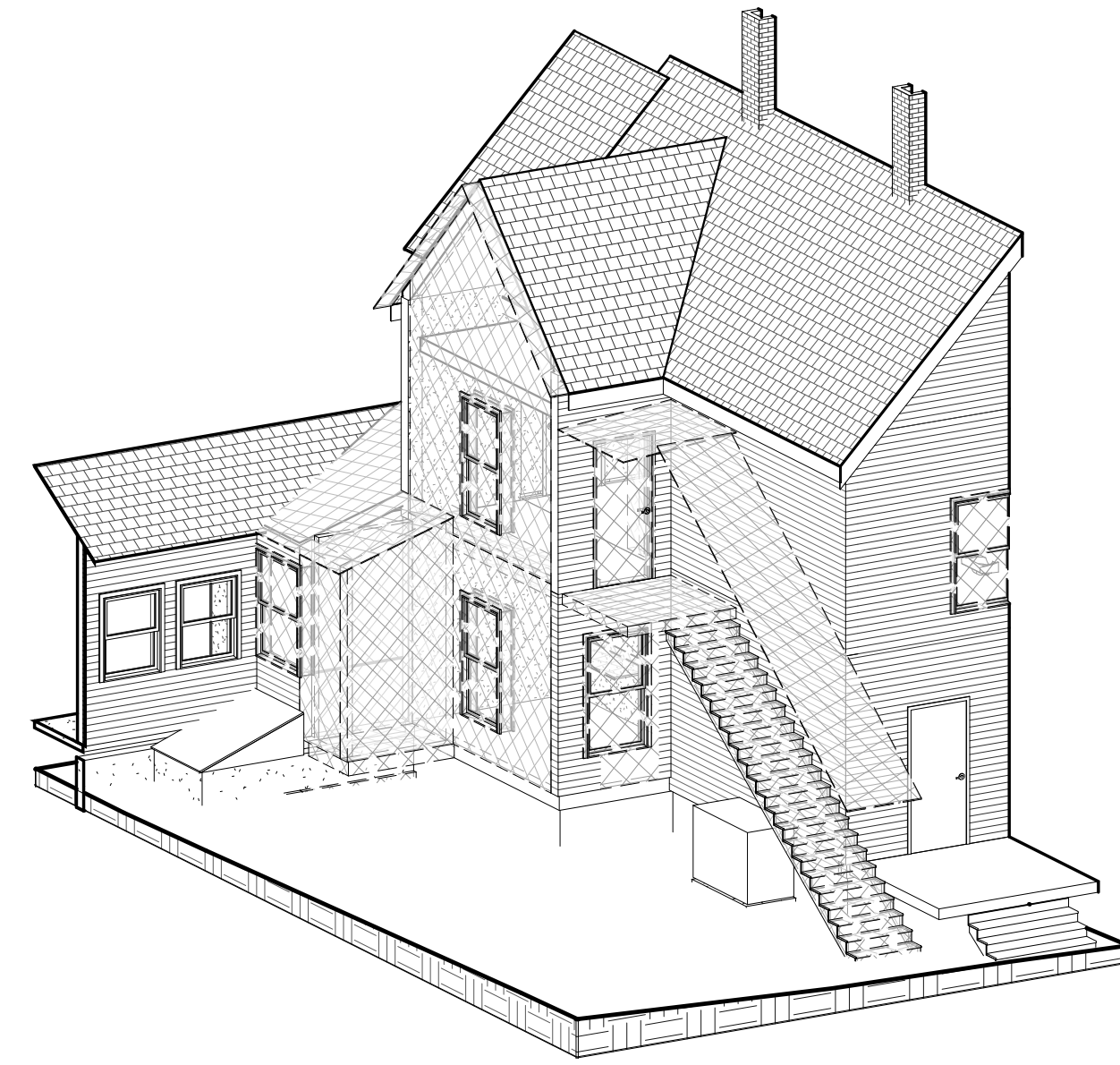


2 DENTAL SUITE FROM SOUTHWEST

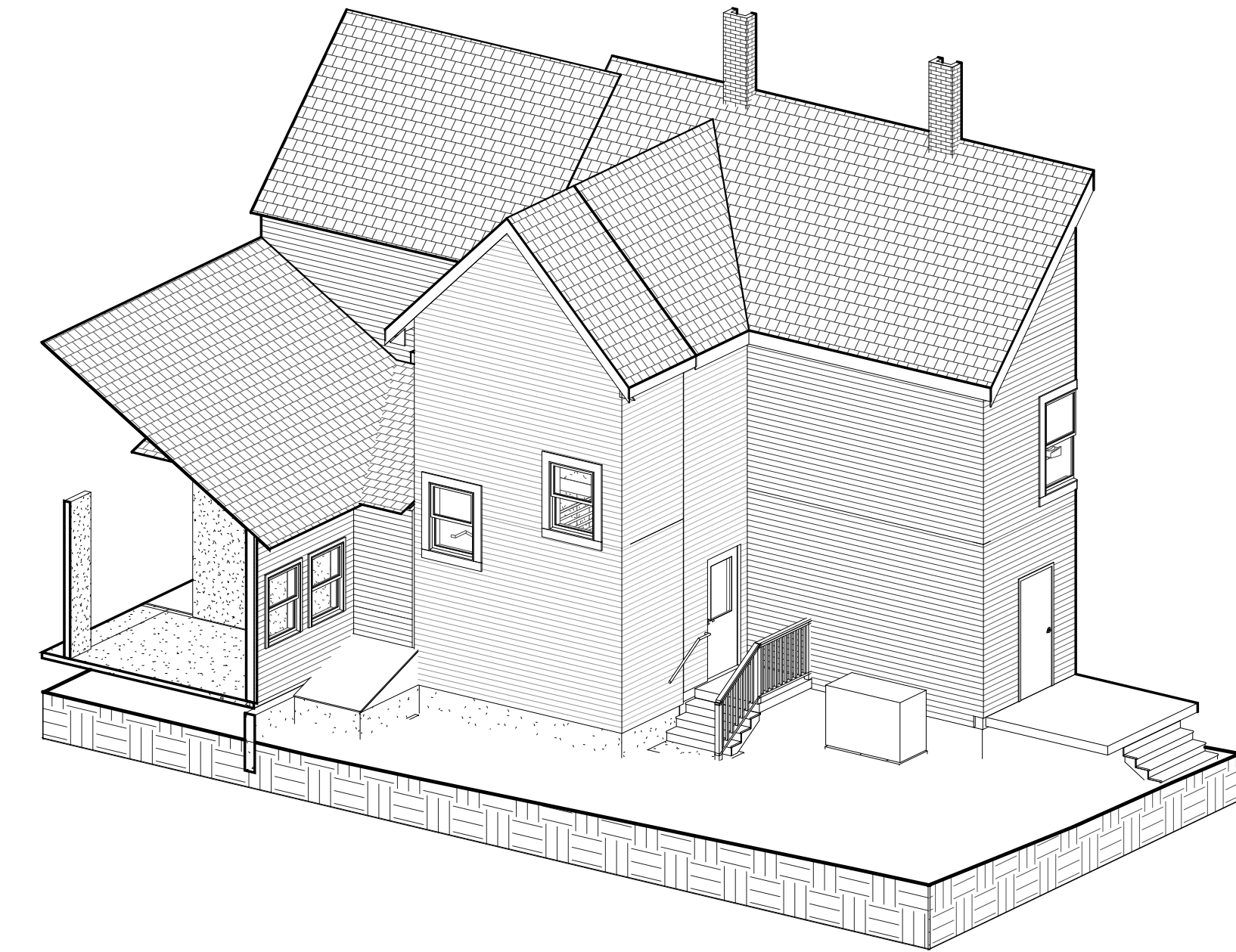
HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION



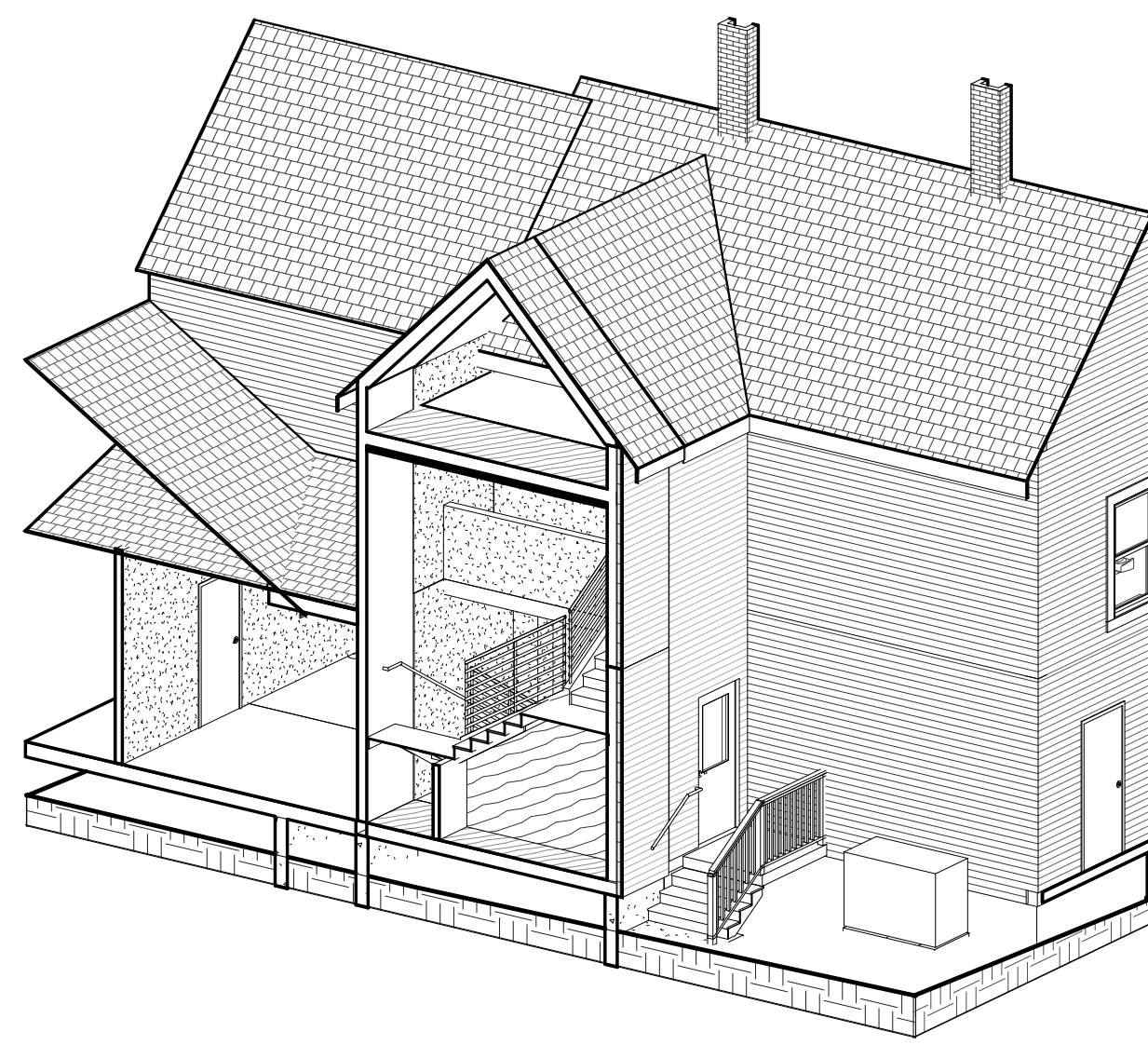
2 EXISTING STAIR FROM NORTHWEST



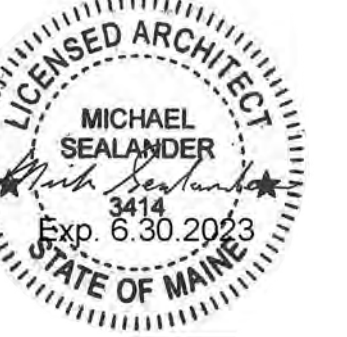
1 DEMOLITION STAIR FROM NORTHWEST

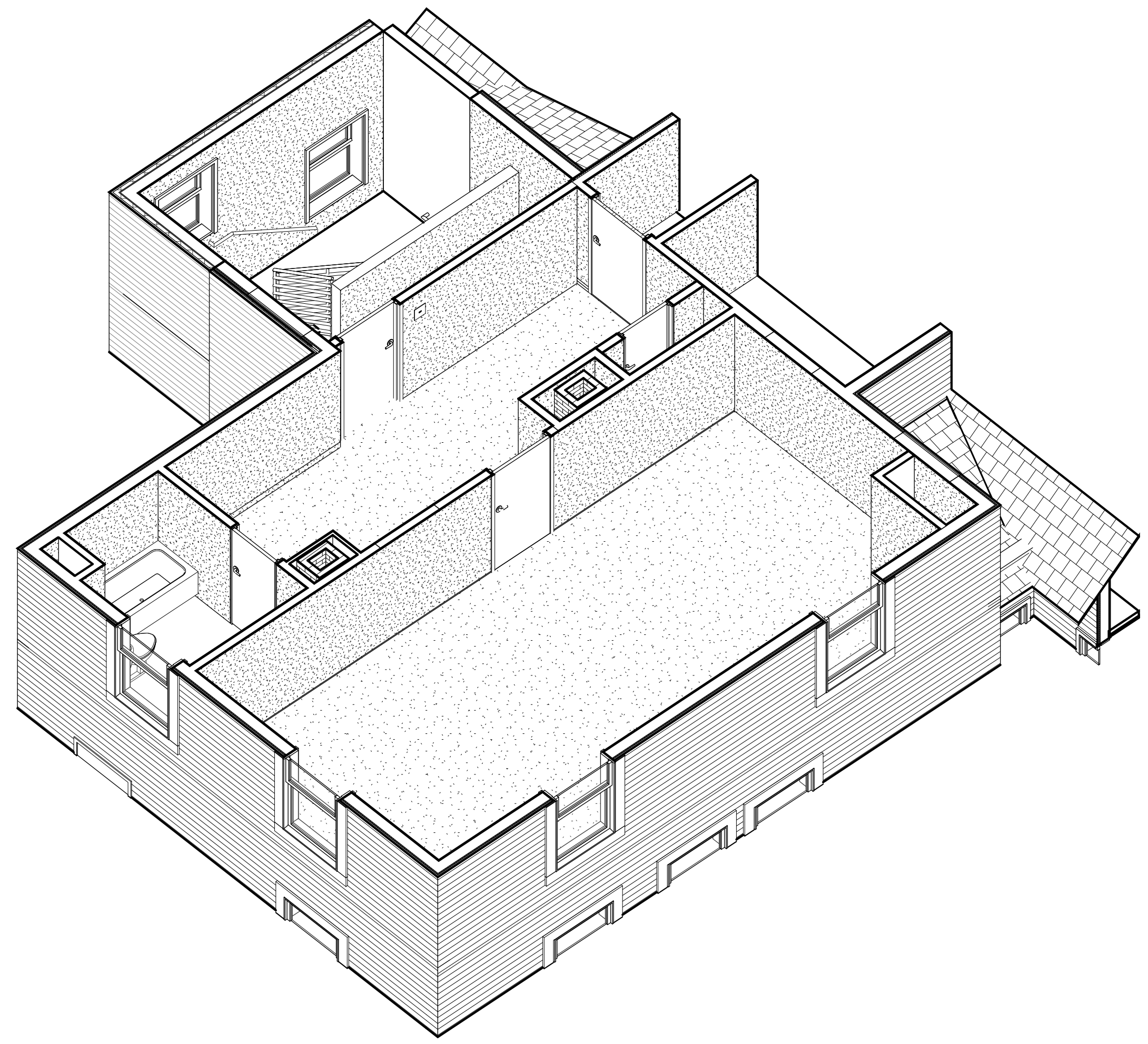


3 STAIR EXTERIOR FROM NORTHWEST

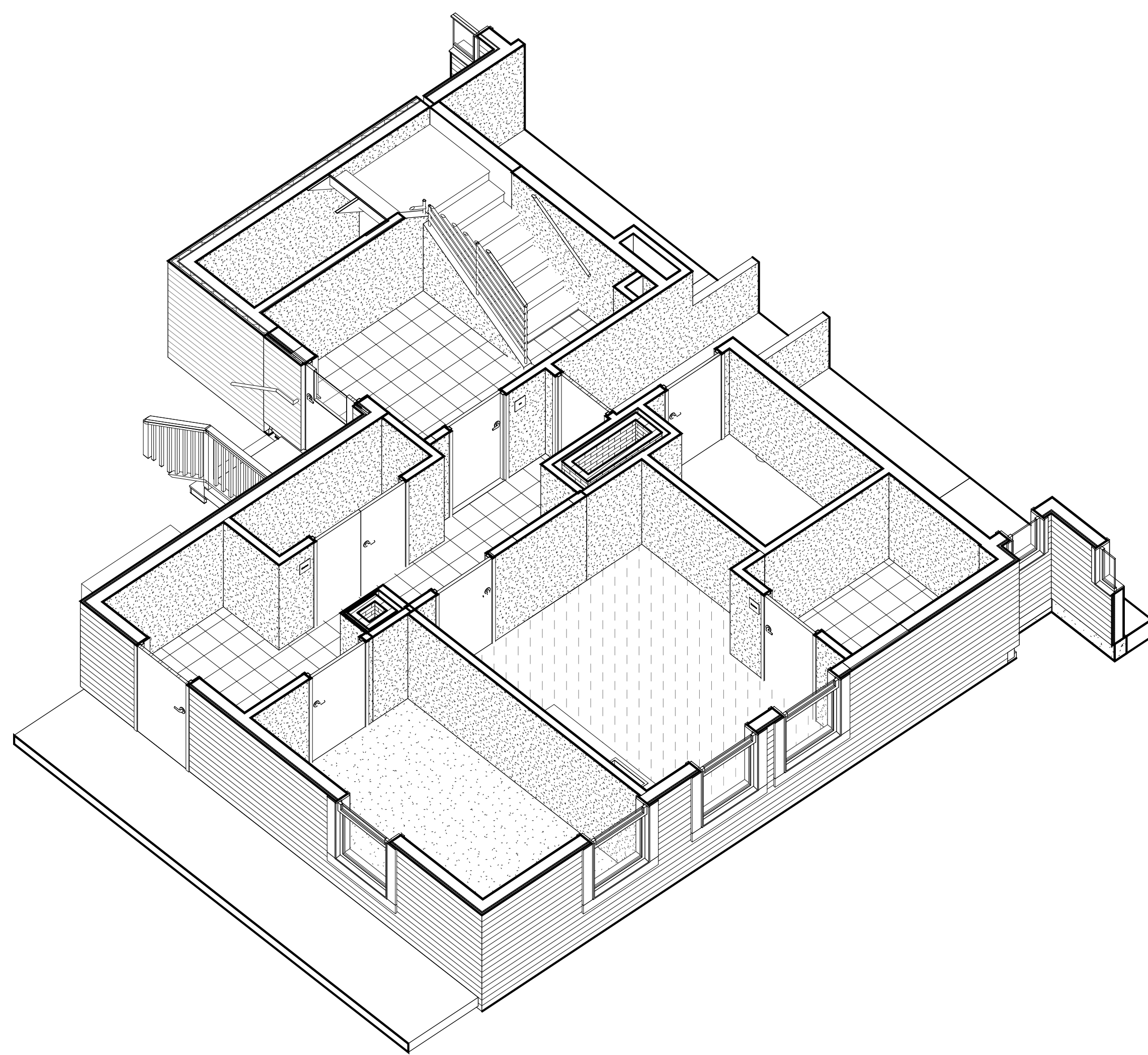


4 STAIR INTERIOR



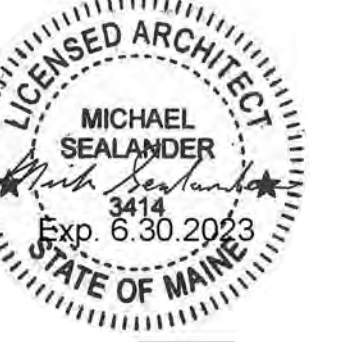


2 OLD PORTION FLOOR 2



1 OLD PORTION FLOOR 1

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architects  
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HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION

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OLD PORTION

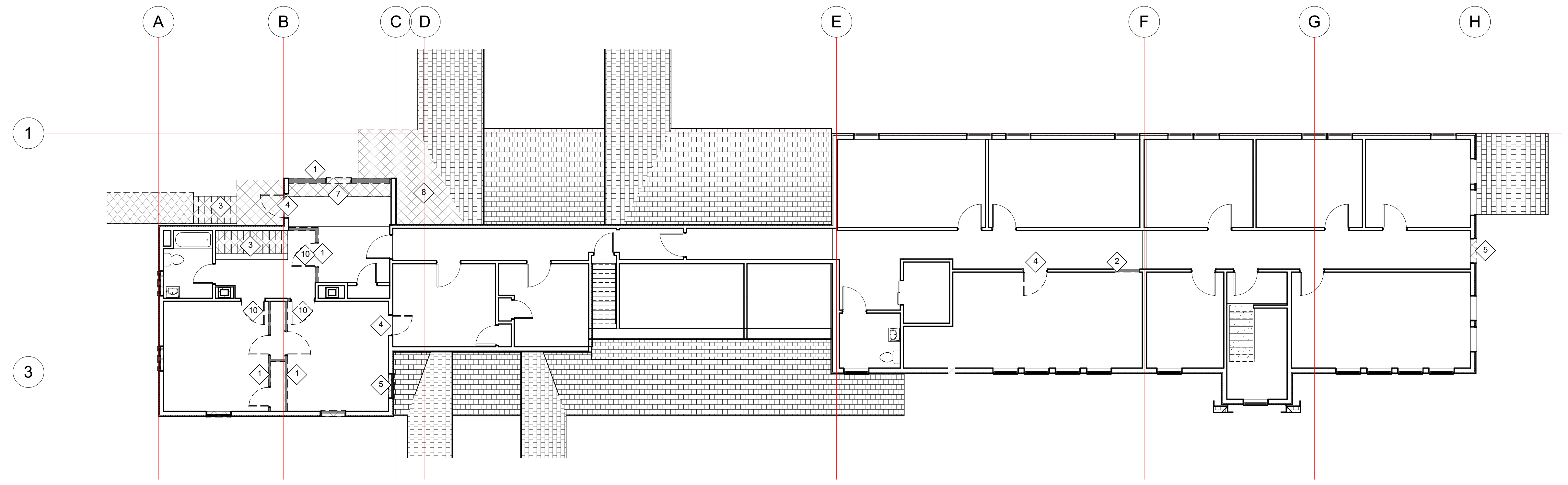
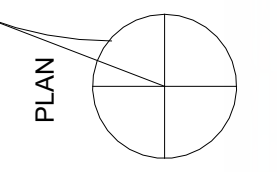
A-042

1. SEE STRUCTURAL, MECHANICAL, ELECTRICAL AND PIPING SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
2. REMOVE SUSPENDED CEILING IN ROOMS WITHIN SCOPE OF WORK, TYPICAL.
3. REMOVE FLOOR FINISH AND WALL BASE IN ROOMS WITHIN SCOPE OF WORK, TYPICAL.
4. REMOVE LOOSE DENTAL EQUIPMENT NOT SALVAGED.
5. SALVAGED DENTAL EQUIPMENT, COMPRISING X-RAY ARMS, LIGHT ARMS, AND DENTAL CHAIRS, SHALL BE GIVEN TO OWNER'S EQUIPMENT INSTALLER. COORDINATE THE TRANSFER AND PROVIDE TEMPORARY STORAGE.

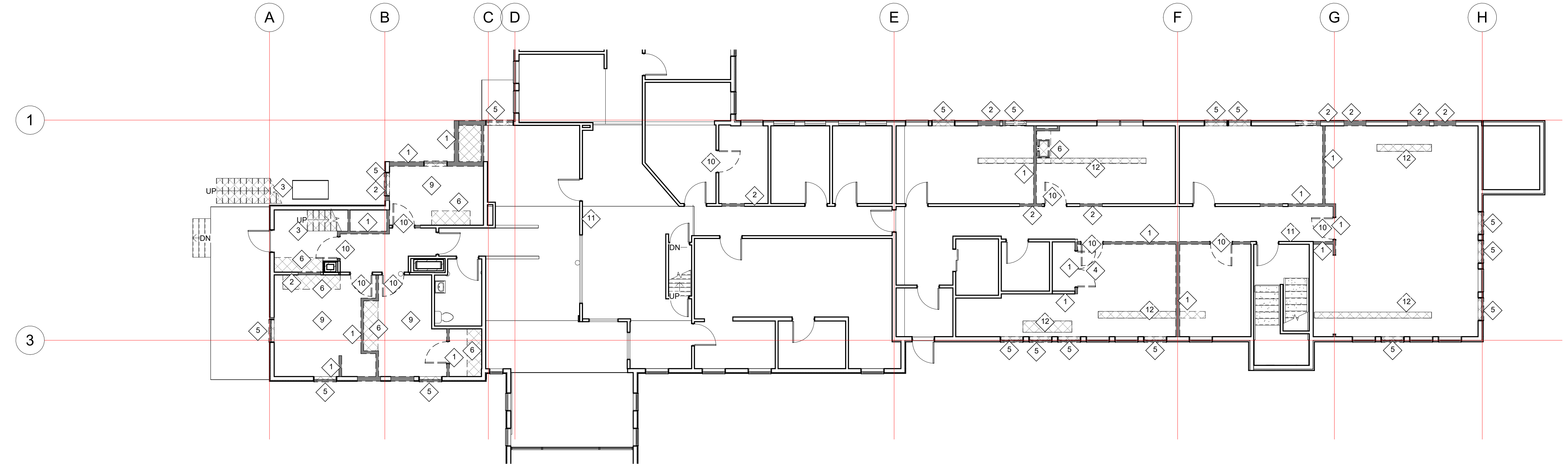
**DEMOLITION NOTES**

1/8" = 1'-0"

TAGGED NOTES- DEMOLITION	
Demo note	Description
1	REMOVE WALL OR PARTITION
2	REMOVE WALL FOR NEW OPENING
3	REMOVE STAIR
4	REMOVE DOOR
5	REMOVE WINDOW
6	REMOVE CASEWORK
7	REMOVE FLOOR FRAMING
8	REMOVE ROOFING
9	SALVAGE DENTAL CHAIR, X-RAY AND LIGHT ARM
10	PROTECT DOOR AND FRAME FOR REUSE
11	PROTECT FIRE EXTINGUISHERS
12	REMOVE SLAB FOR DENTAL SERVICES TO CHAIRS.



**2 FLOOR 2 DEMOLITION**  
A-500 1/8" = 1'-0"



**1 FLOOR 1 DEMOLITION**  
A-500 1/8" = 1'-0"

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21,000'  
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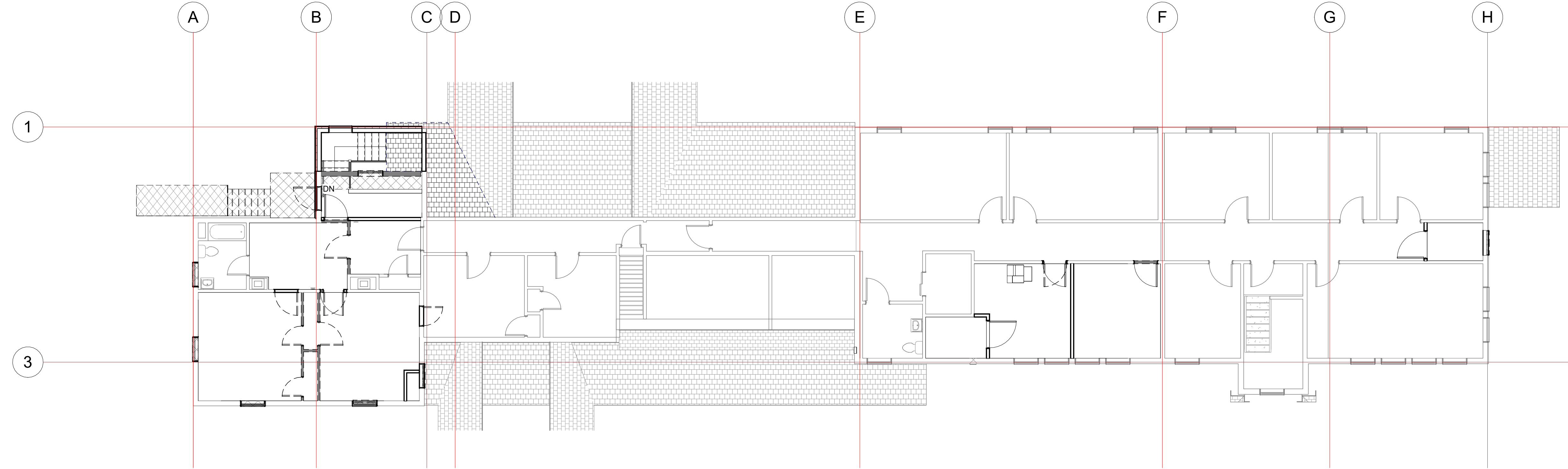
ARCHITECT PROJECT #  
662

**HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION**

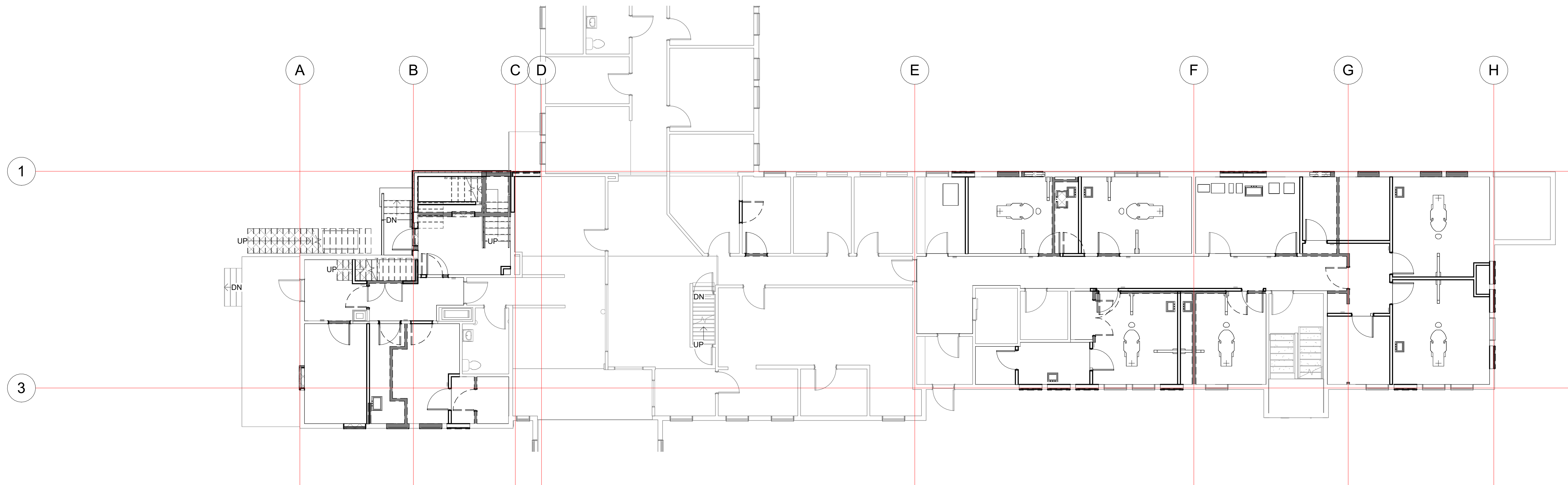
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DEMOLITION  
PLANS

**A-110**



2 FLOOR 2 DEMO/NEW OVERLAY  
A-500 1/8" = 1'-0"



1 FLOOR 1 DEMOLITION/NEW OVERLAY  
A-500 1/8" = 1'-0"

sealande<sup>21,000</sup>  
architects  
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ARCHITECT PROJECT #  
662

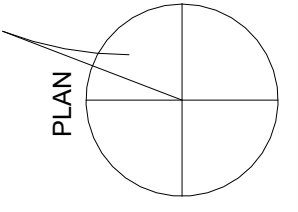
HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION

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DEMO/NEW  
OVERLAY

A-150

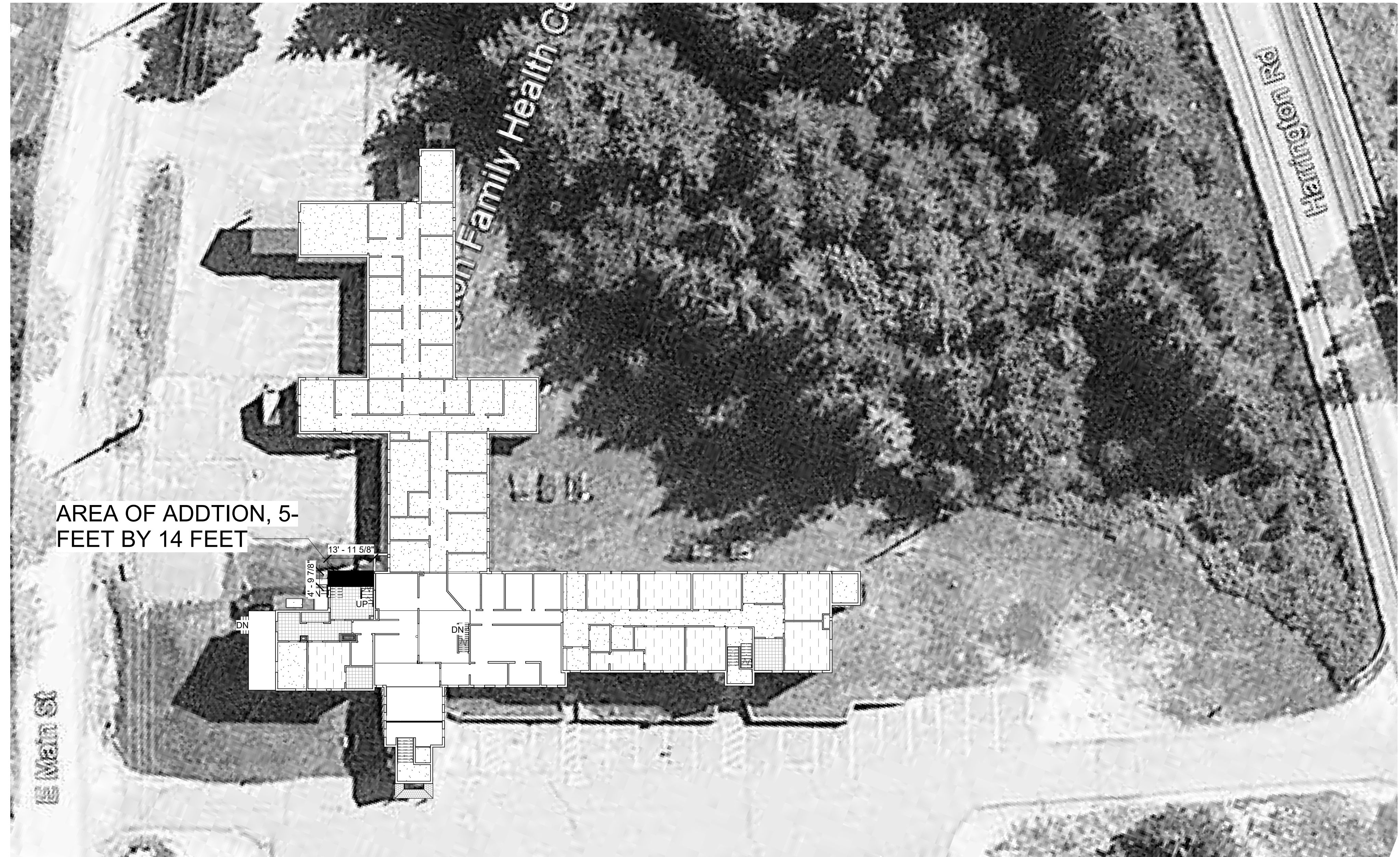
This project is composed of a 70-square foot addition as shown, and interior renovations to the existing health center.



21,000<sup>sq</sup>  
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ARCHITECT PROJECT #  
 662



1 SITE PLAN  
 A-500 1" = 20'-0"

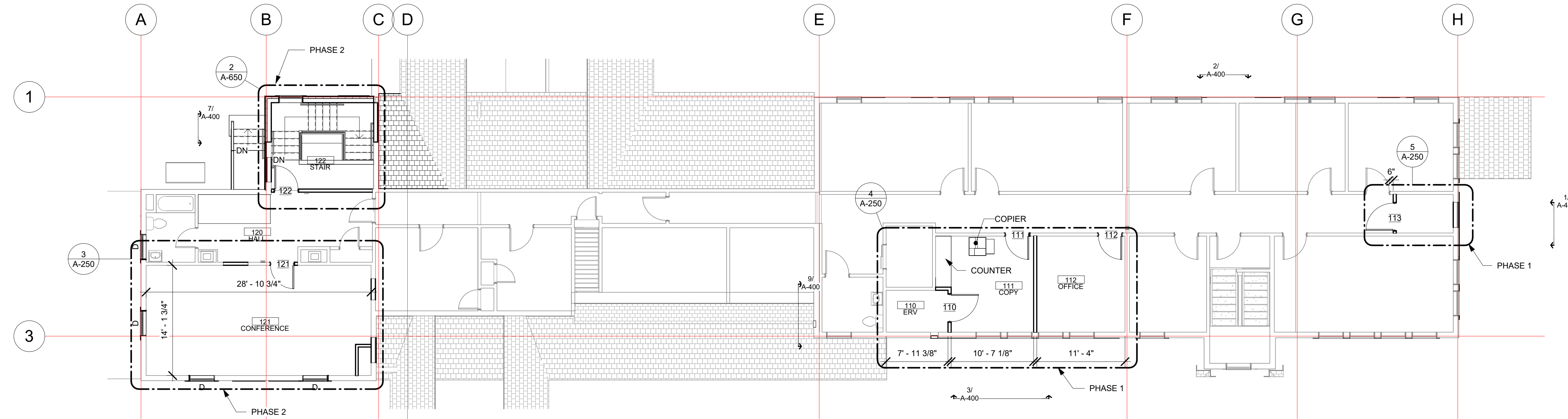
HARRINGTON FAMILY HEALTH CENTER  
 DENTISTRY RENOVATION

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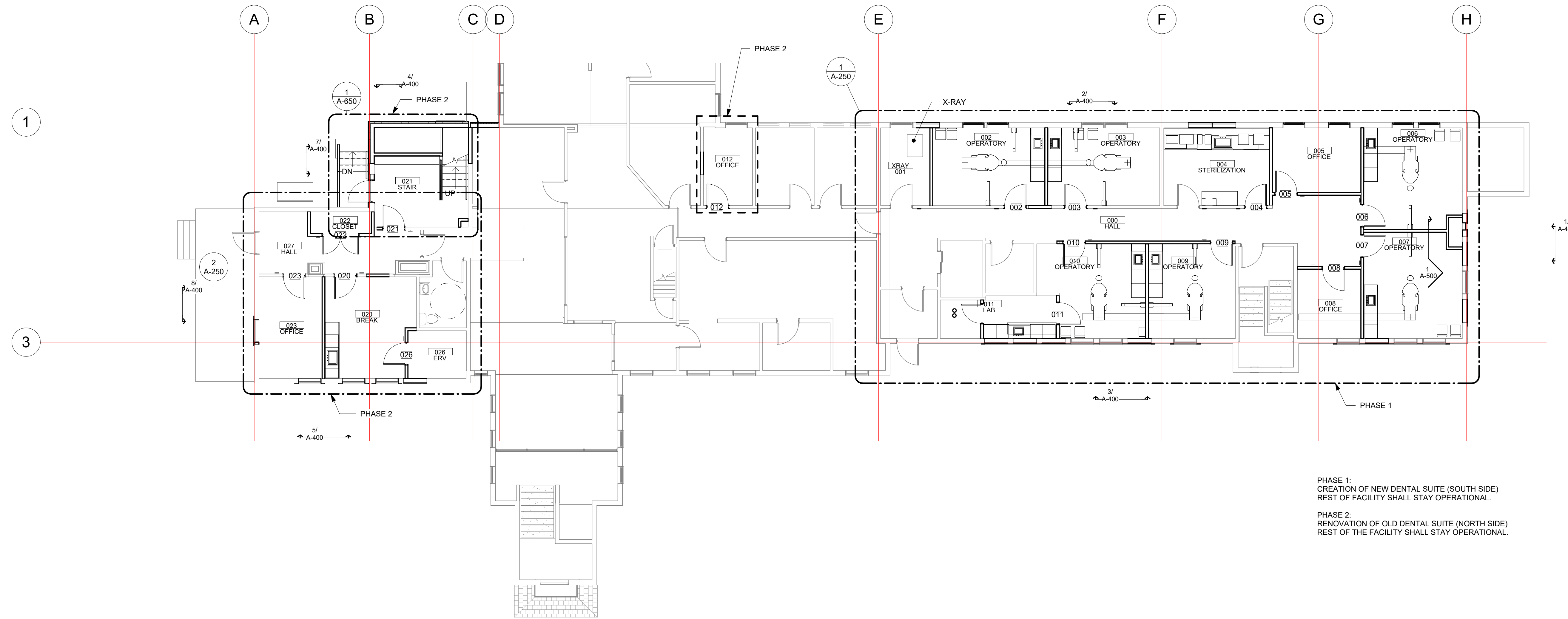
SITE PLAN

A-200

2 FLOOR 2  
A-500 1/8" = 1'-0"



1 FLOOR 1  
A-500 1/8" = 1'-0"



PHASE 1:  
CREATION OF NEW DENTAL SUITE (SOUTH SIDE)  
REST OF FACILITY SHALL STAY OPERATIONAL.

PHASE 2:  
RENOVATION OF OLD DENTAL SUITE (NORTH SIDE)  
REST OF THE FACILITY SHALL STAY OPERATIONAL.

PROJECT PHASING  
12" = 1'-0"

HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION

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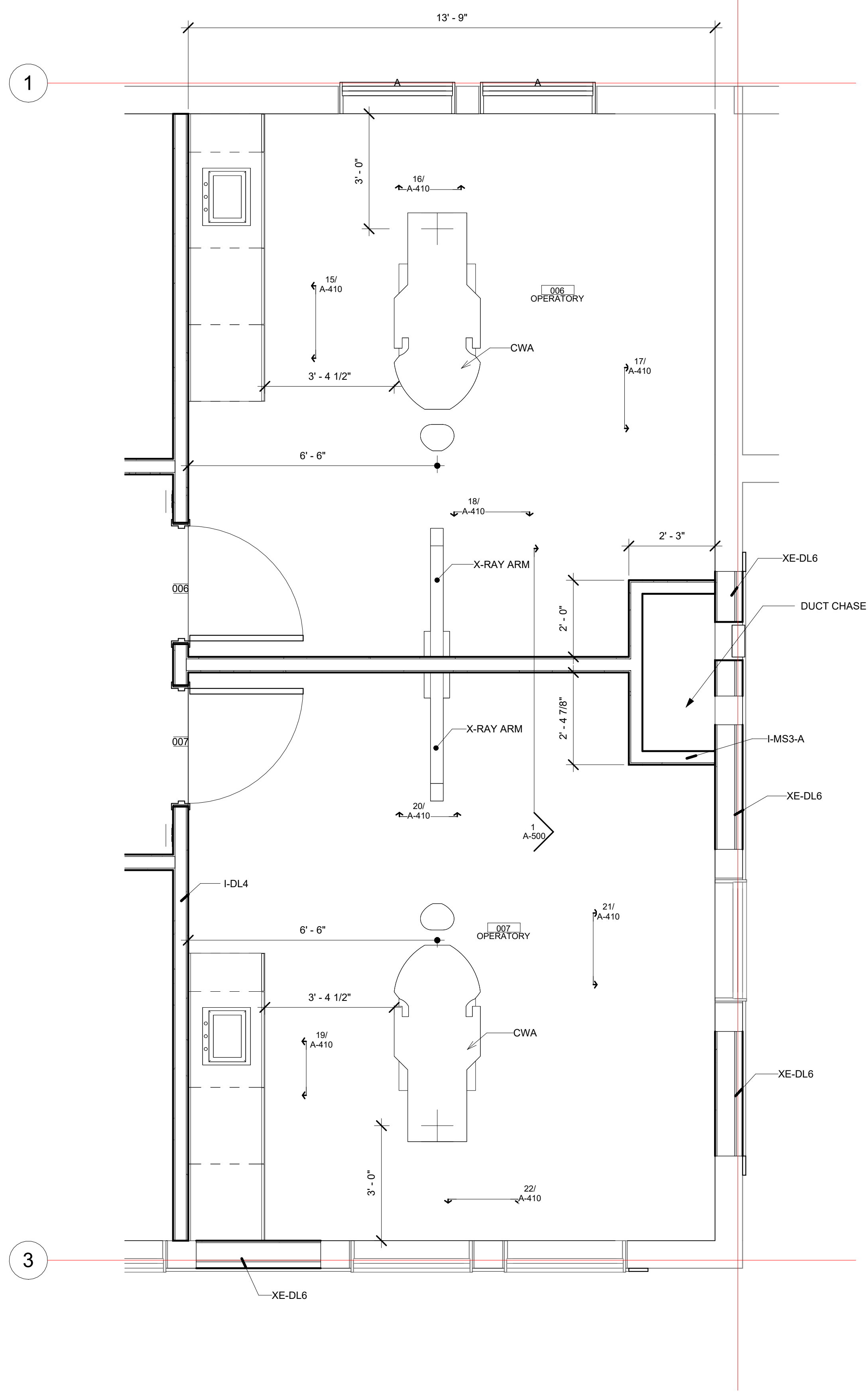
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PHASING KEY  
PLANS

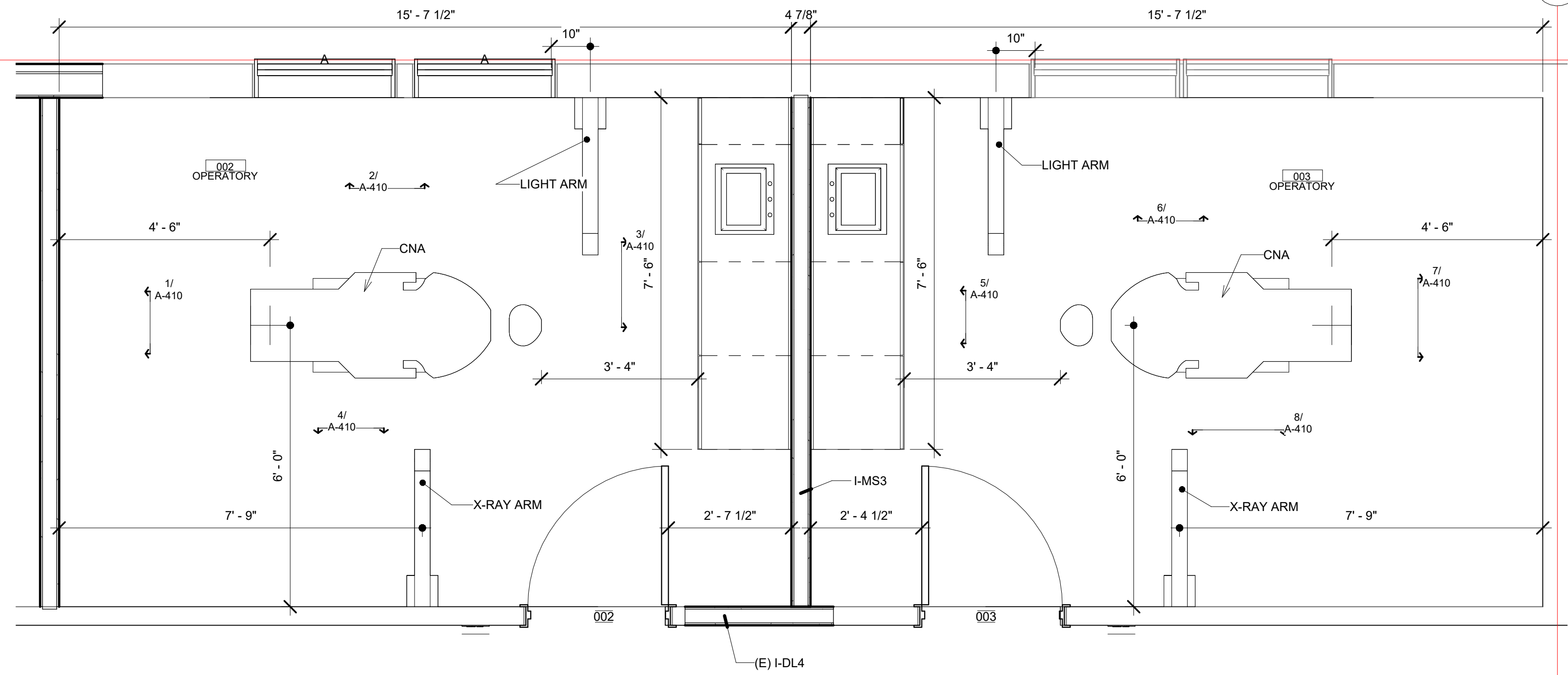
A-210



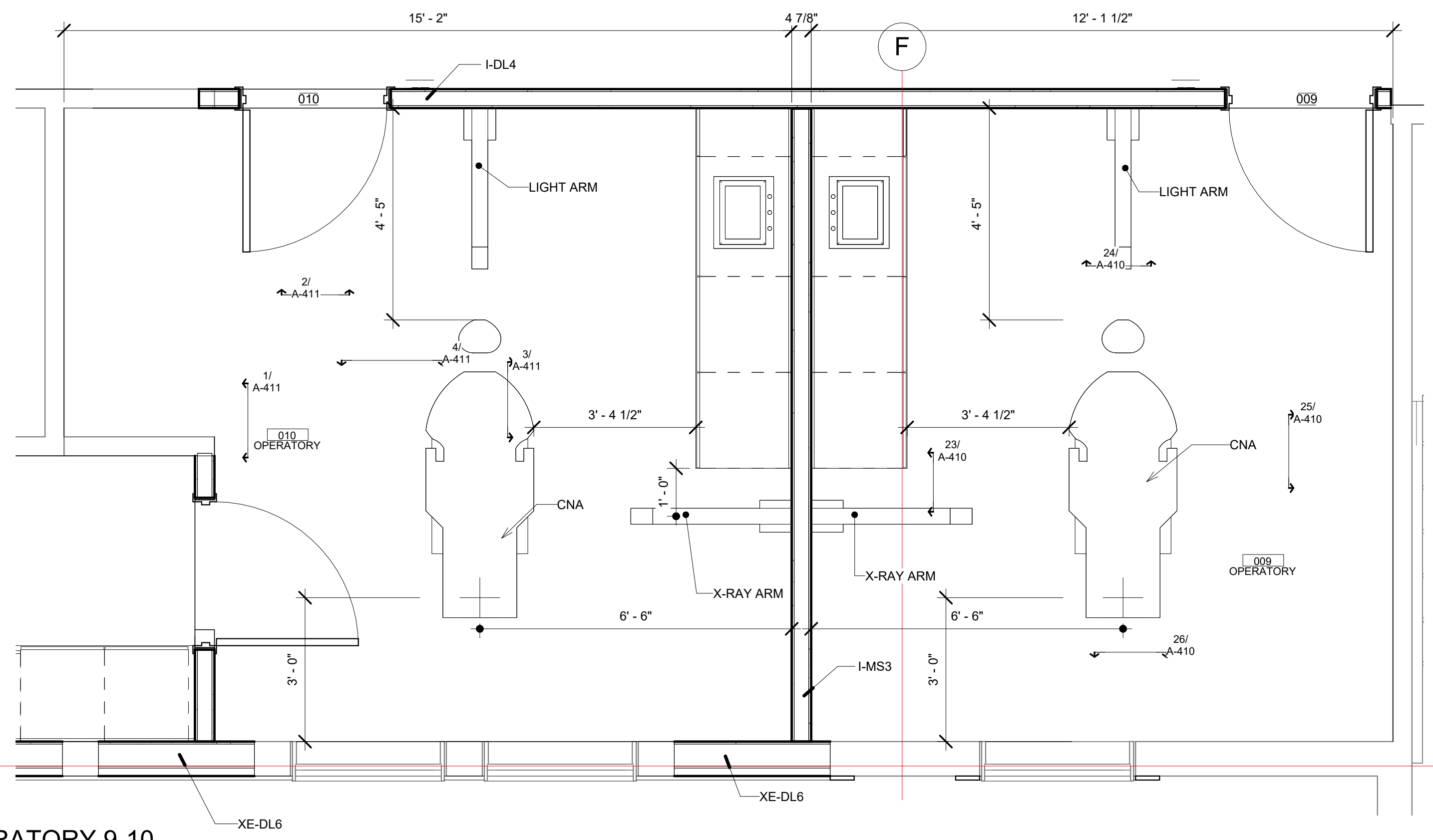




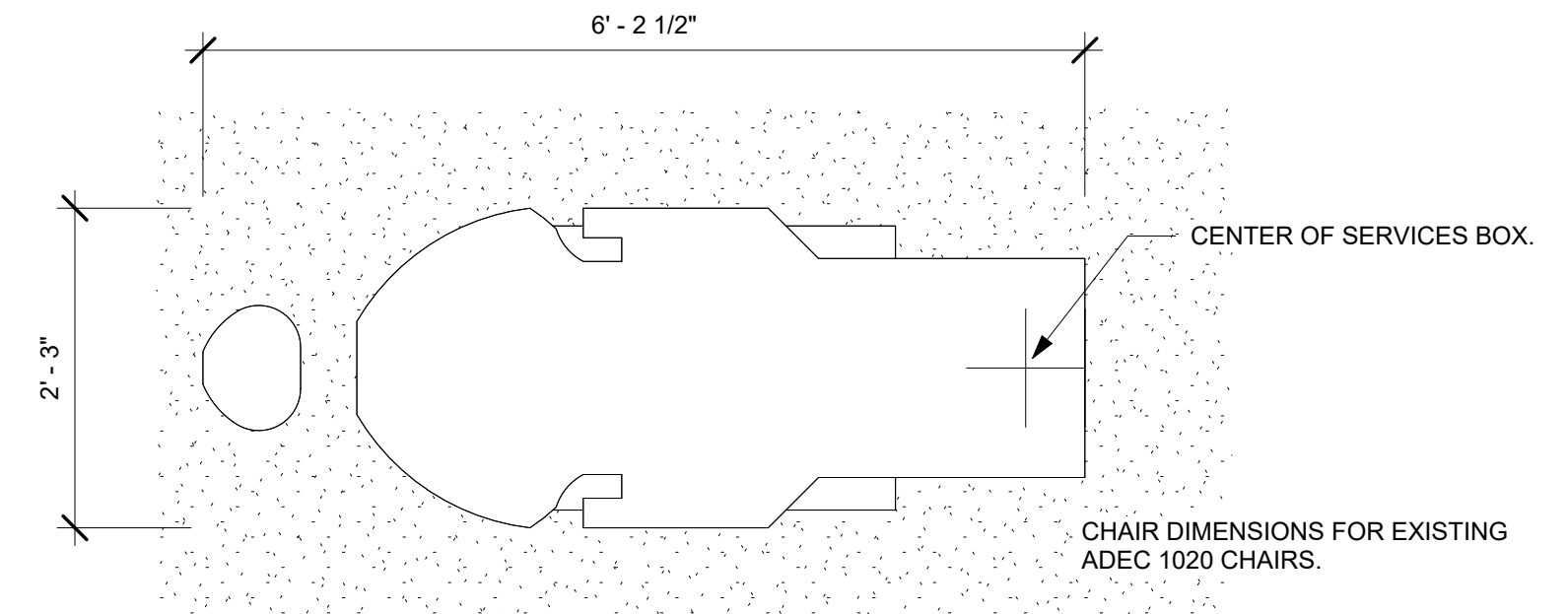
2 OPERATORY 6-7  
A-250 1/2" = 1'-0"



1 OPERATORY 2-3  
A-250 1/2" = 1'-0"



3 OPERATORY 9-10  
A-250 1/2" = 1'-0"

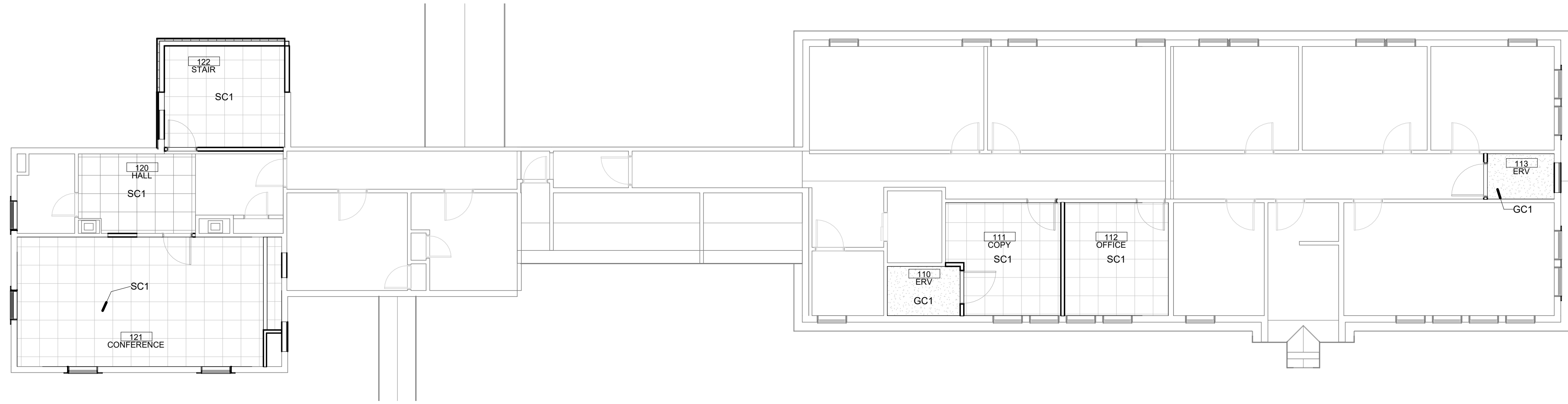
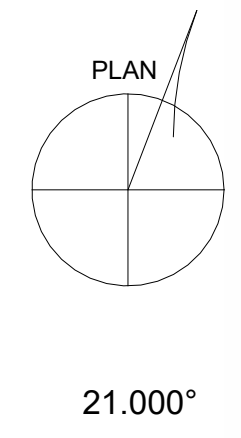


4 DENTAL CHAIR  
3/4" = 1'-0"

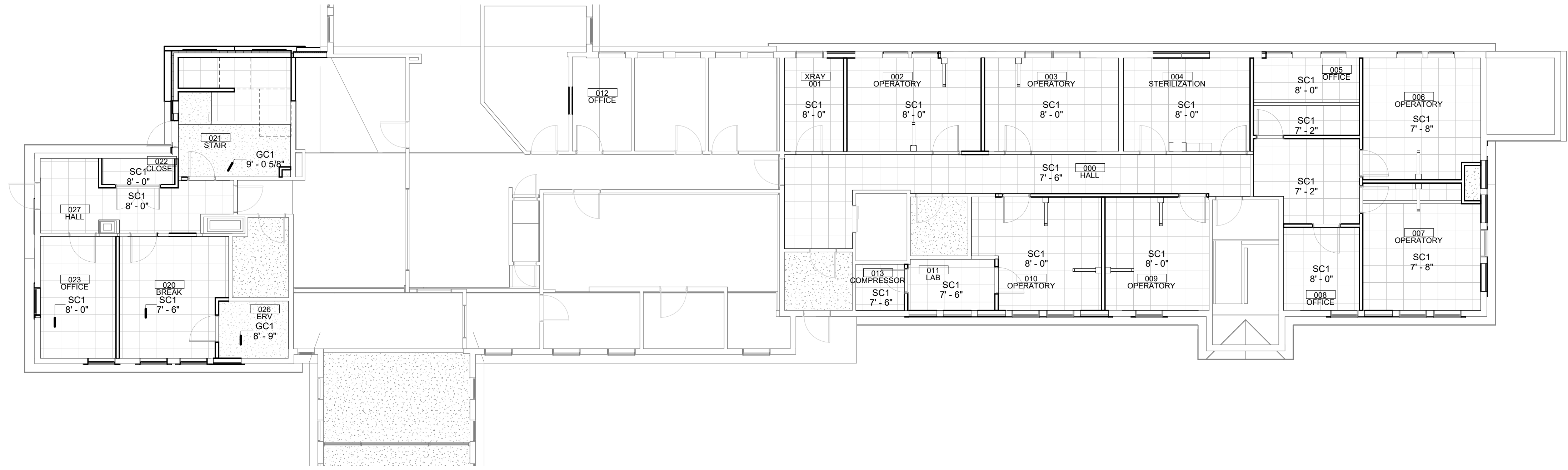
E1020 MEDICAL EQUIPMENT			
TYPE MARK	ASSEMBLY CODE	DESCRIPTION	COUNT
CNA	E1020810	CHAIR WITH NO LIGHT ARM	4
CWA	E1020810	CHAIR WITH LIGHT ARM	2
Grand total:			6



C3030 CEILINGS			
TYPE MARK	ASSEMBLY CODE	AREA	DESCRIPTION
GC1	C3030310	232 SF	
SC1	C3030210	3269 SF	
Grand total: 30		3501 SF	



2 FLOOR 2 REFLECTED CEILING  
A-500 1/8" = 1'-0"



1 FLOOR 1 REFLECTED CEILING  
A-500 1/8" = 1'-0"

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ARCHITECT PROJECT #  
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HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION

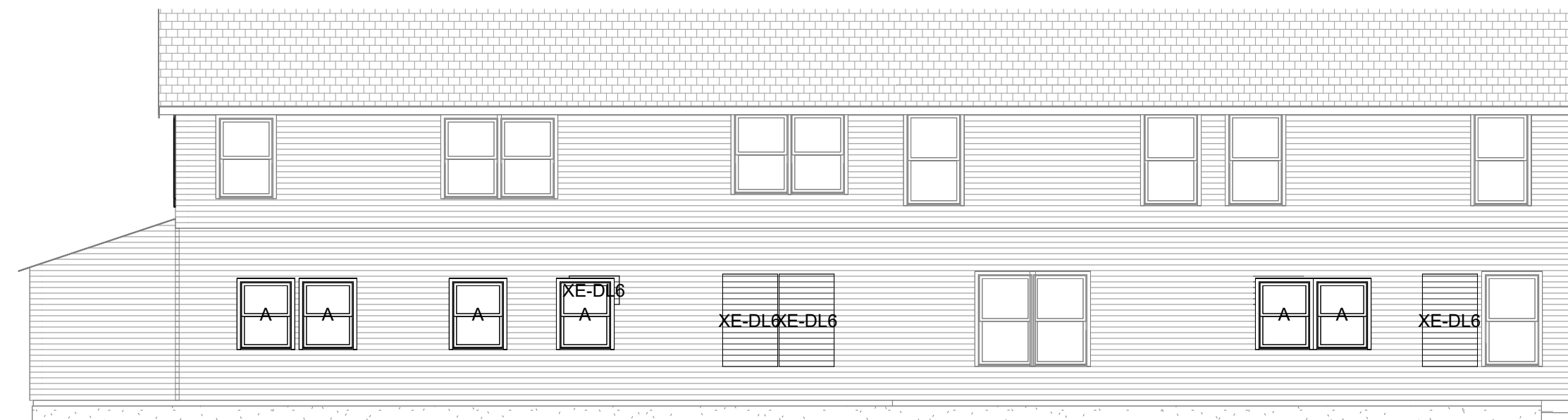
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REFLECTED  
CEILING PLAN

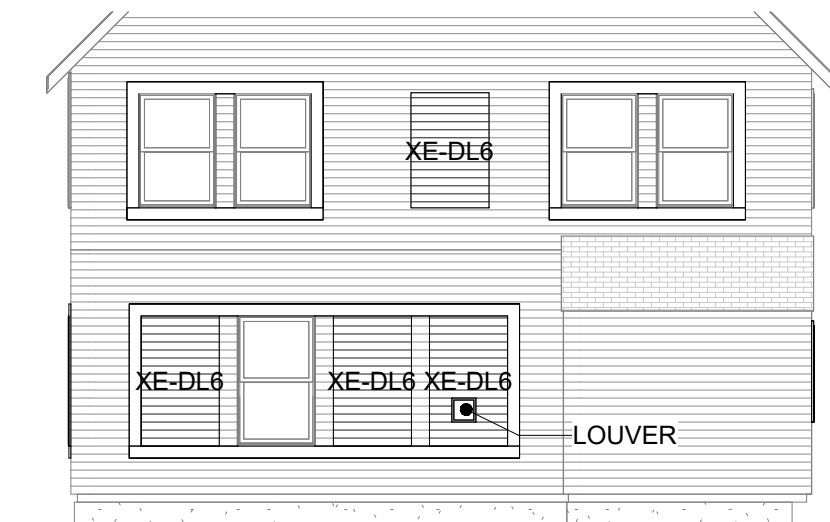
A-300



4 NORTH SECTION EAST ELEVATION  
A-210 1/8" = 1'-0"



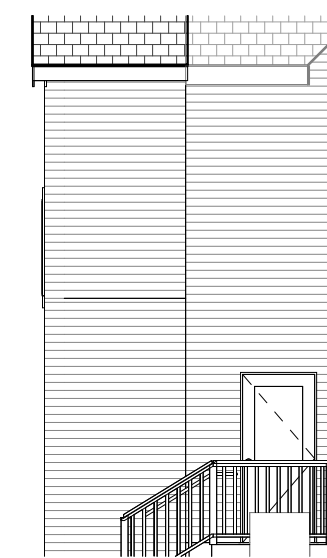
2 SOUTH SECTION EAST ELEVATION  
A-210 1/8" = 1'-0"



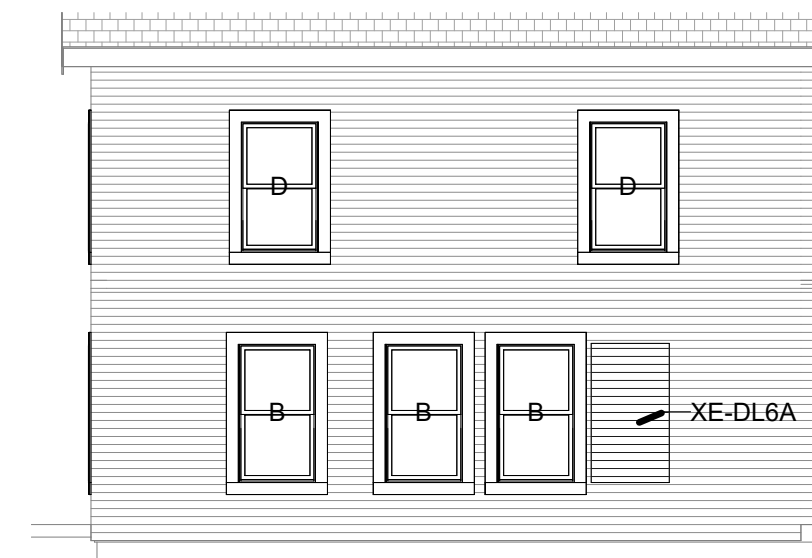
1 SOUTH SECTION SOUTH ELEVATION  
A-210 1/8" = 1'-0"



8 NORTH SECTION NORTH ELEVATION  
A-210 1/8" = 1'-0"



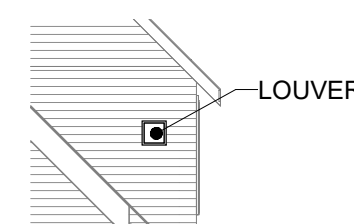
7 STAIR NORTH  
A-210 1/8" = 1'-0"



5 NORTH SECTION WEST ELEVATION  
A-210 1/8" = 1'-0"



3 SOUTH SECTION WEST ELEVATION  
A-210 1/8" = 1'-0"

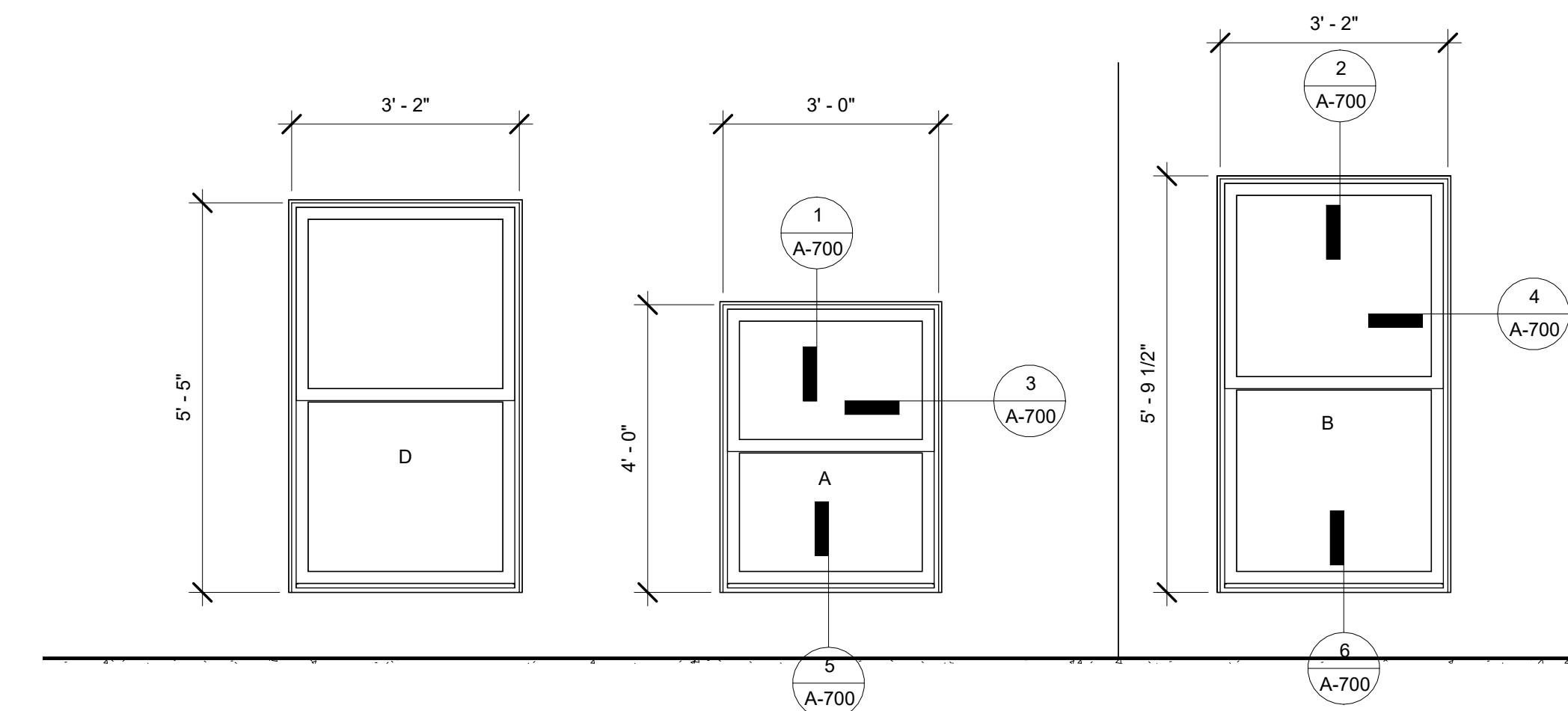


9 SOUTH SECTION PARTIAL NORTH  
A-210 1/8" = 1'-0"

PROVIDE ROLLER WINDOW SHADES AT NEW WINDOWS AND EXISTING WINDOWS LOCATED IN ROOMS WITH NEW WINDOWS.

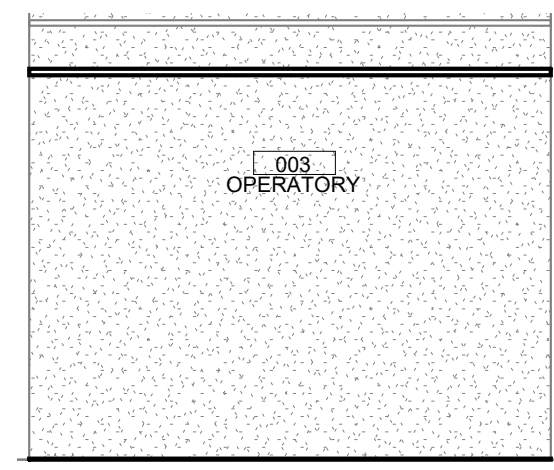
EXTERIOR ELEVATION NOTES  
12" = 1'-0"

B2020 EXTERIOR WINDOWS		
TYPE MARK	STYLE (Family)	SIZE (Type)
A	Double Hung 1T1W	3040
3040: 8		
D	Double Hung 1T1W	3255
3255: 4		
B	Double Hung 1T1W	3259
3259: 4		
C	Louver- Inset	Fresh air
Fresh air: 3		
Grand total: 19		

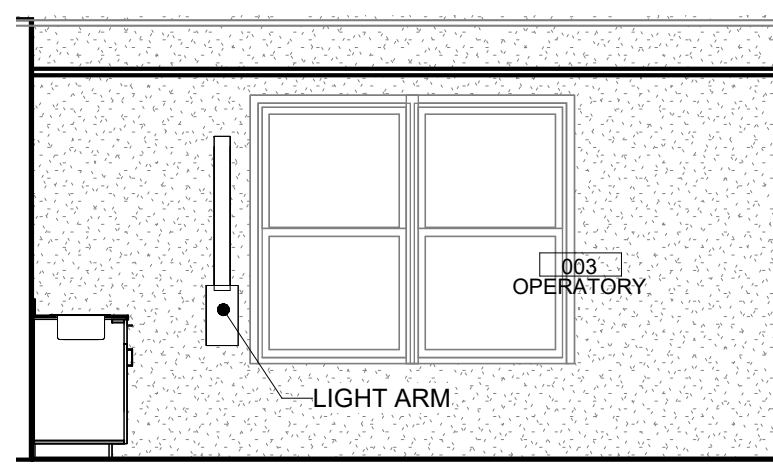


6 EXTERIOR WINDOWS  
1/2" = 1'-0"

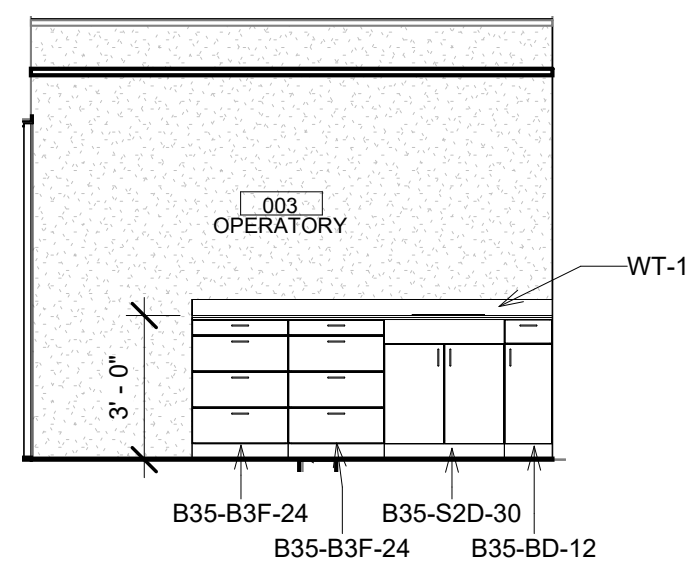




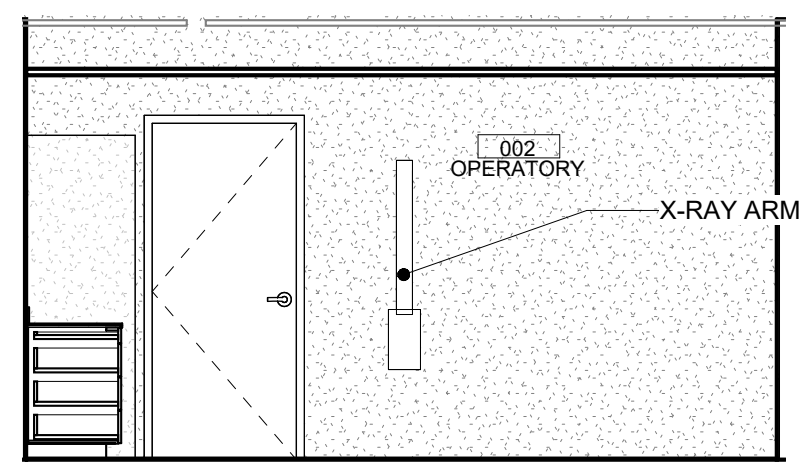
7 003 OPERATORY SOUTH  
 A-251 1/4" = 1'-0"



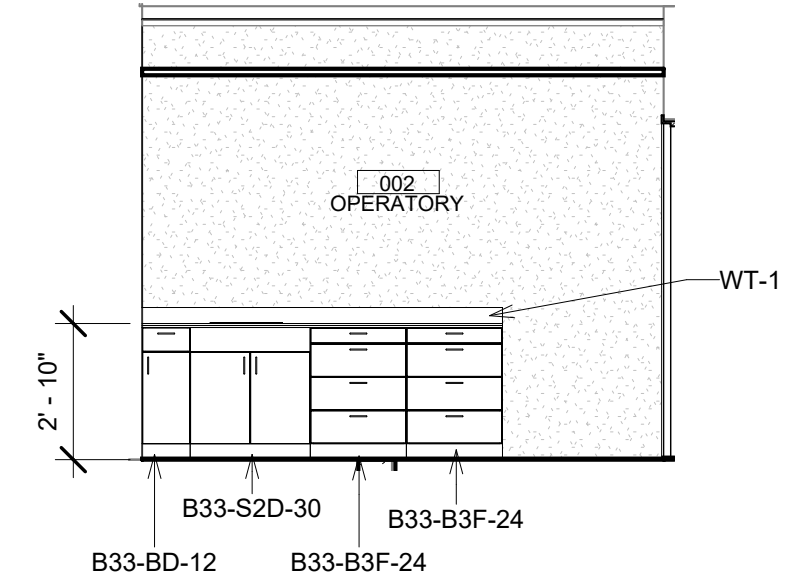
6 003 OPERATORY EAST  
 A-251 1/4" = 1'-0"



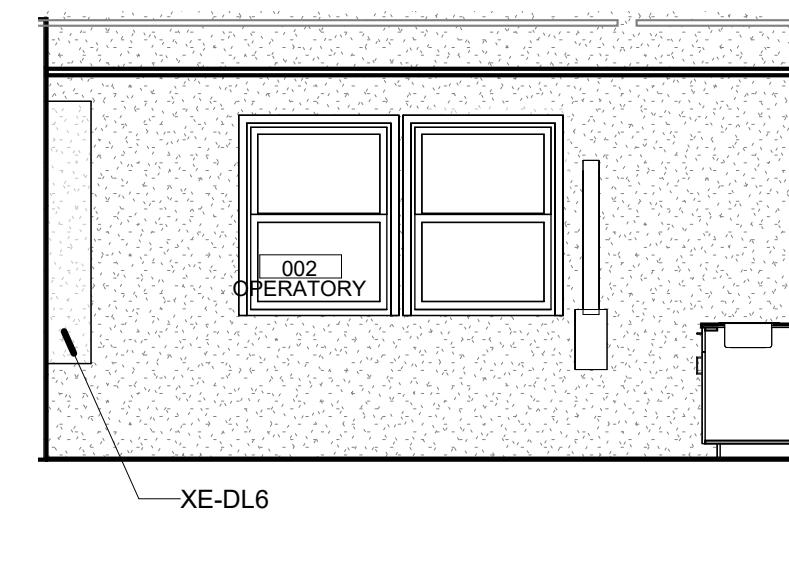
5 003 OPERATORY NORTH  
 A-251 1/4" = 1'-0"



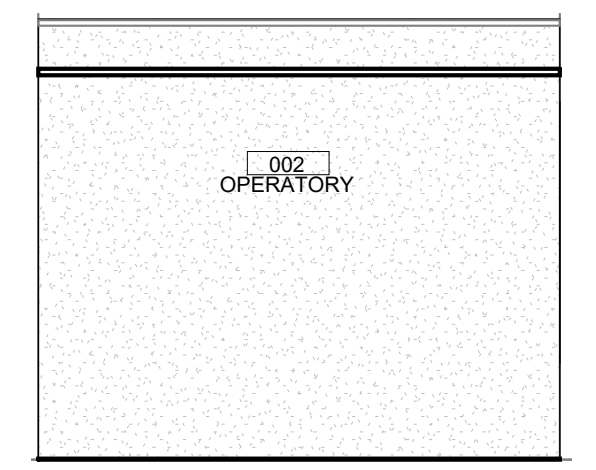
4 002 OPERATORY WEST  
 A-251 1/4" = 1'-0"



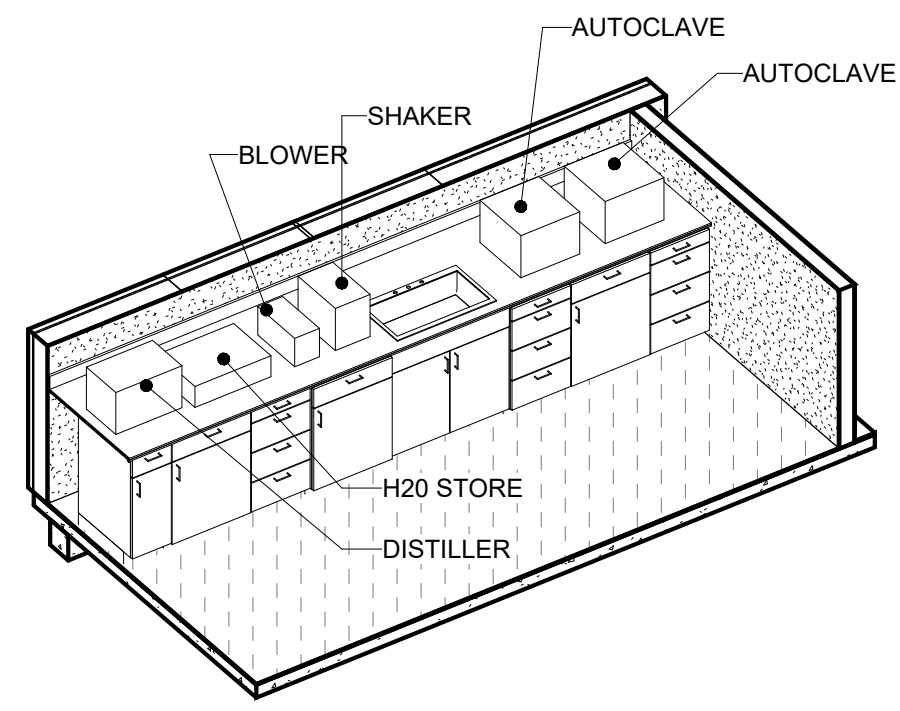
3 002 OPERATORY SOUTH  
 A-251 1/4" = 1'-0"



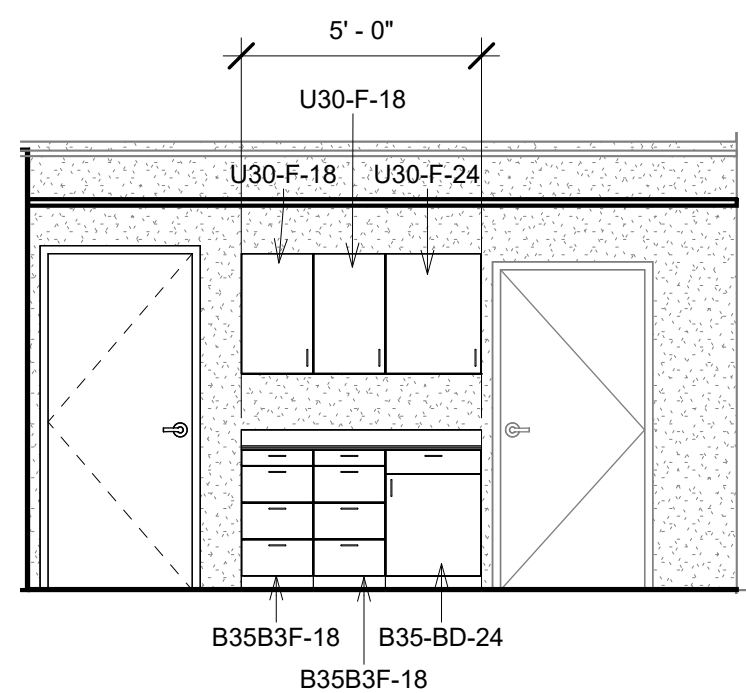
2 002 OPERATORY EAST  
 A-251 1/4" = 1'-0"



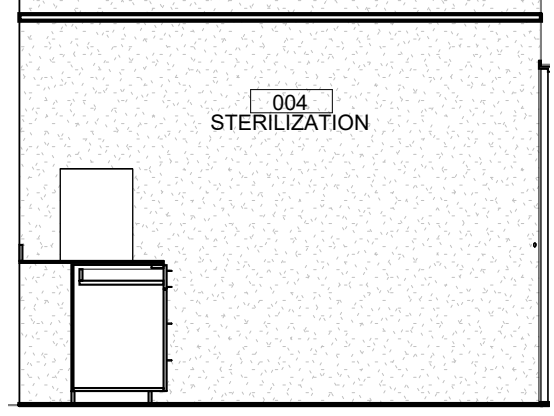
1 002 OPERATORY NORTH  
 A-251 1/4" = 1'-0"



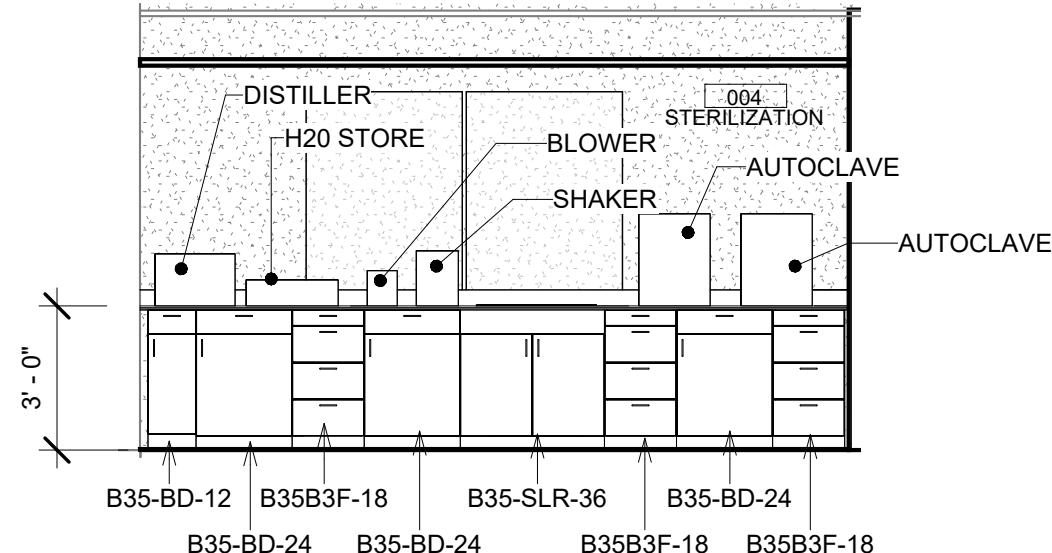
13 STERILIZATION NORTH



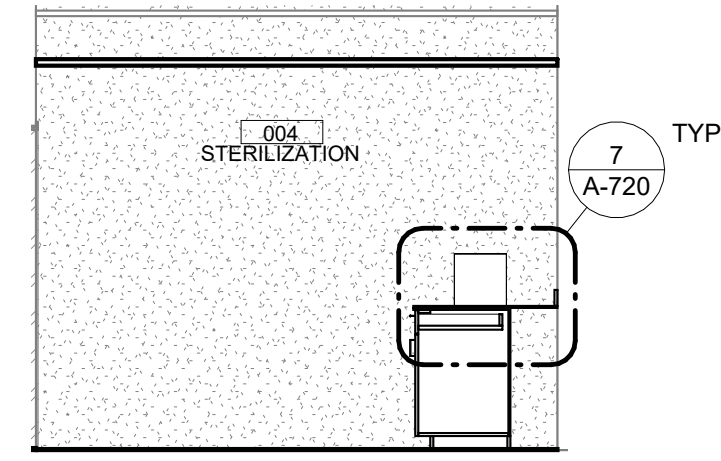
12 004 STERILIZATION WEST  
 A-250 1/4" = 1'-0"



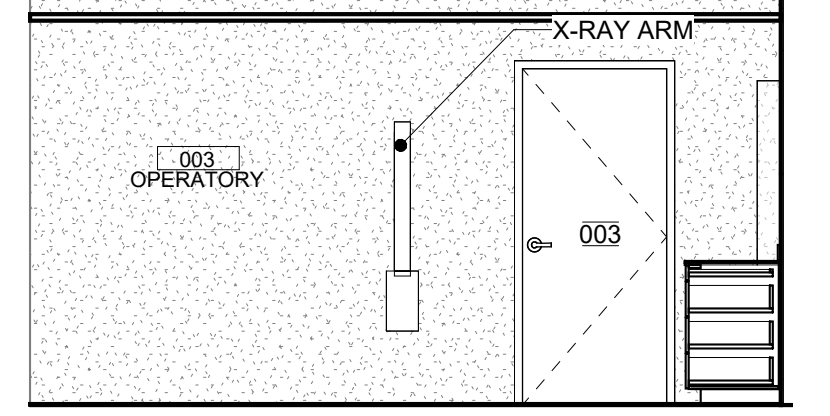
11 004 STERILIZATION SOUTH  
 A-250 1/4" = 1'-0"



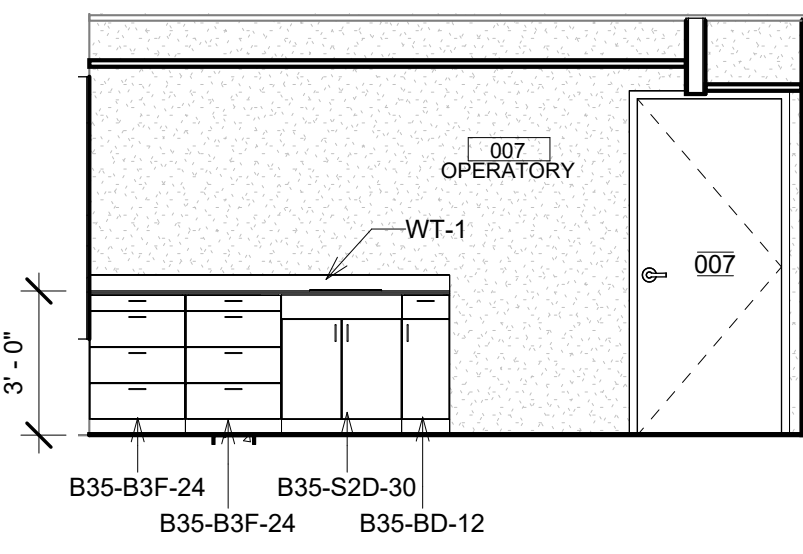
10 004 STERILIZATION EAST  
 A-250 1/4" = 1'-0"



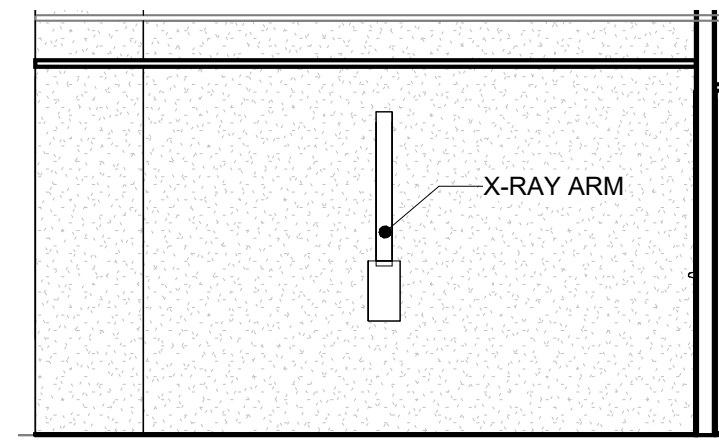
9 004 STERILIZATION NORTH  
 A-250 1/4" = 1'-0"



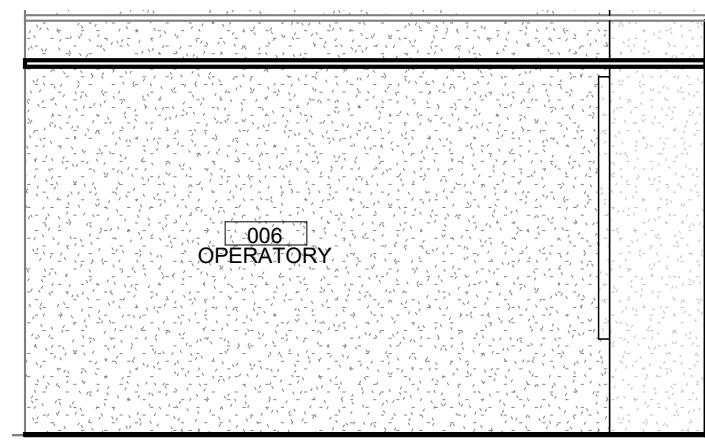
8 003 OPERATORY WEST  
 A-251 1/4" = 1'-0"



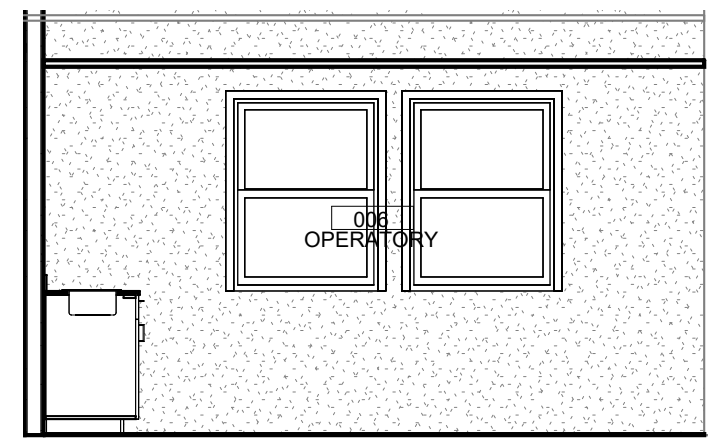
19 007 OPERATORY NORTH  
 A-251 1/4" = 1'-0"



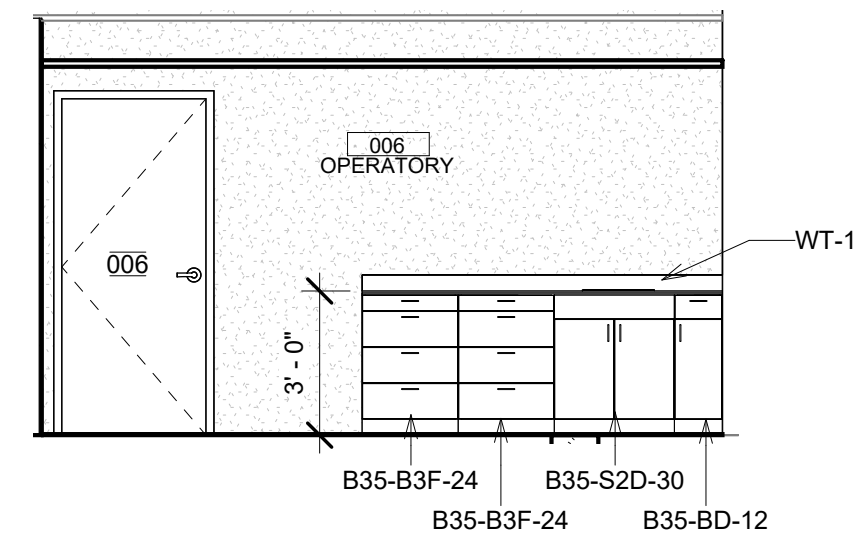
18 006 OPERATORY WEST  
 A-251 1/4" = 1'-0"



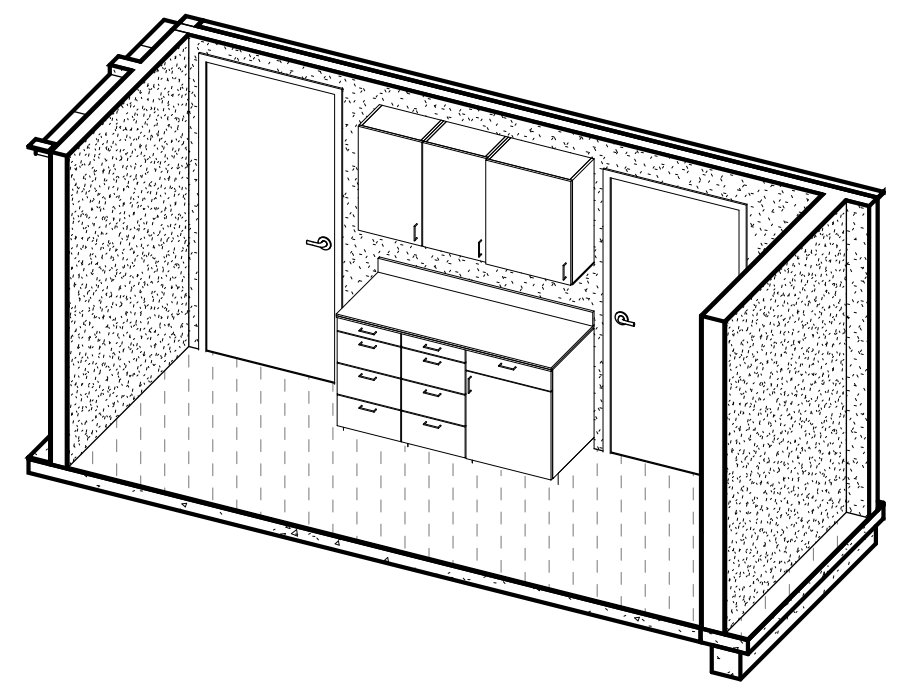
17 006 OPERATORY SOUTH  
 A-251 1/4" = 1'-0"



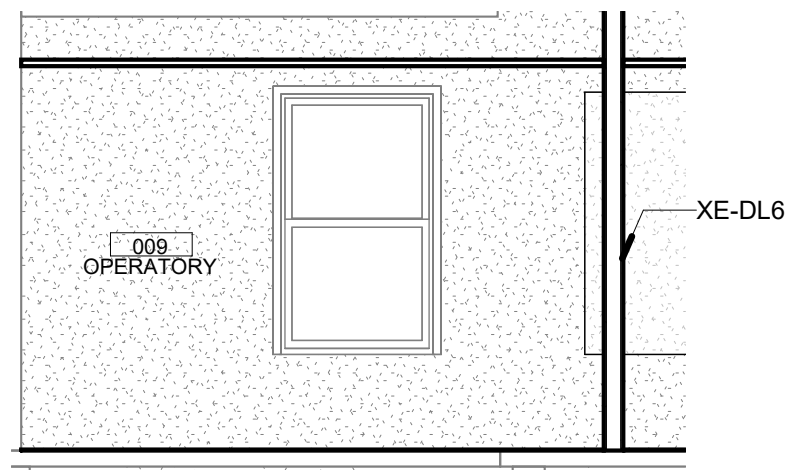
16 006 OPERATORY EAST  
 A-251 1/4" = 1'-0"



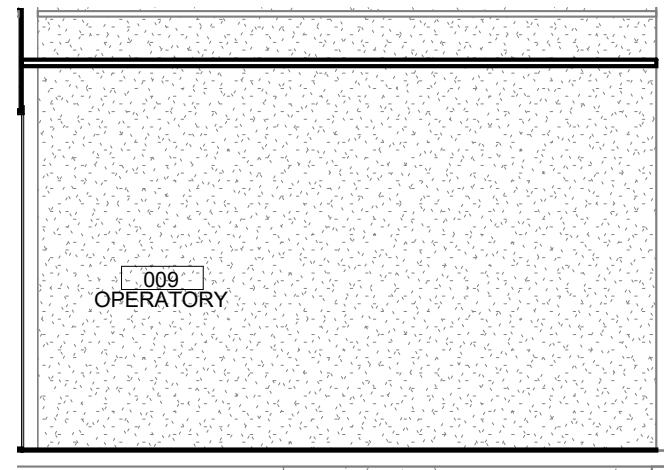
15 006 OPERATORY NORTH  
 A-251 1/4" = 1'-0"



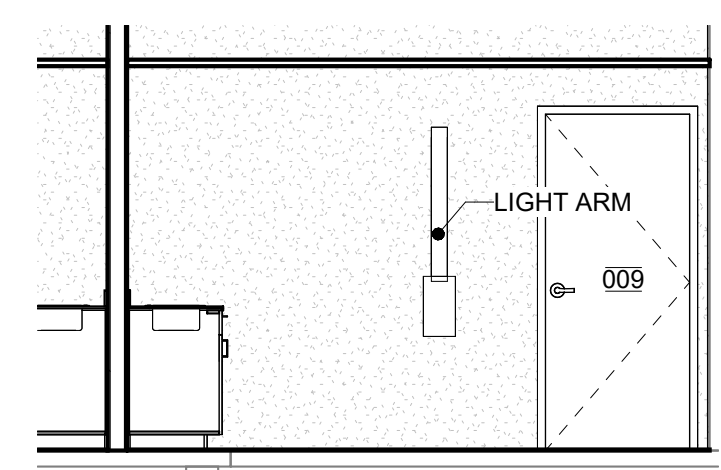
14 STERILIZATION SOUTH



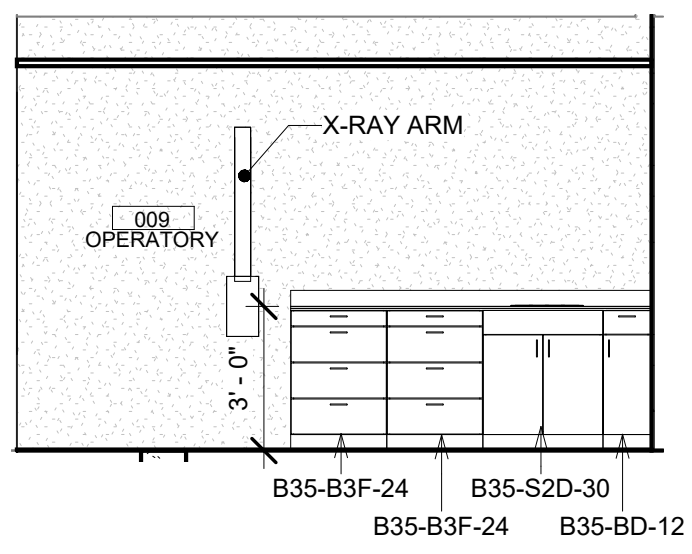
26 009 OPERATORY WEST  
 A-251 1/4" = 1'-0"



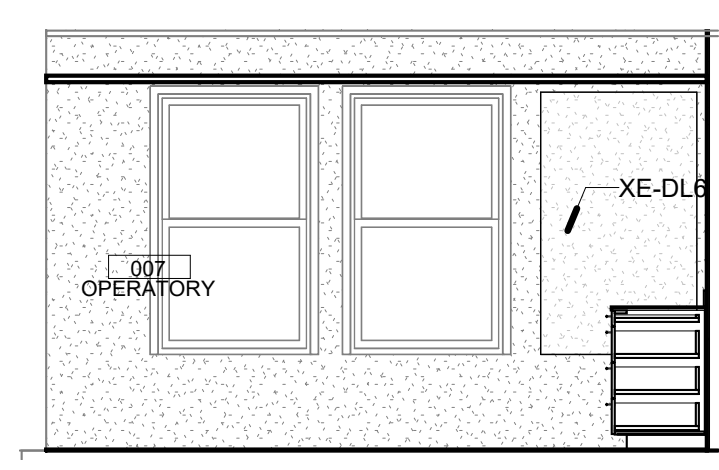
25 009 OPERATORY SOUTH  
 A-251 1/4" = 1'-0"



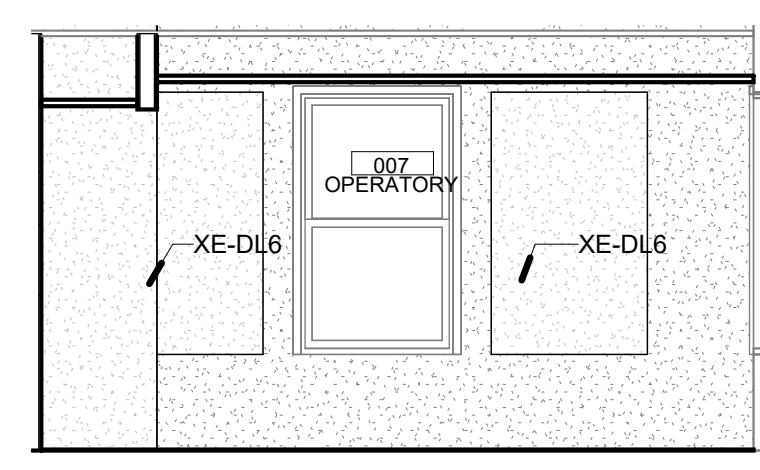
24 009 OPERATORY EAST  
 A-251 1/4" = 1'-0"



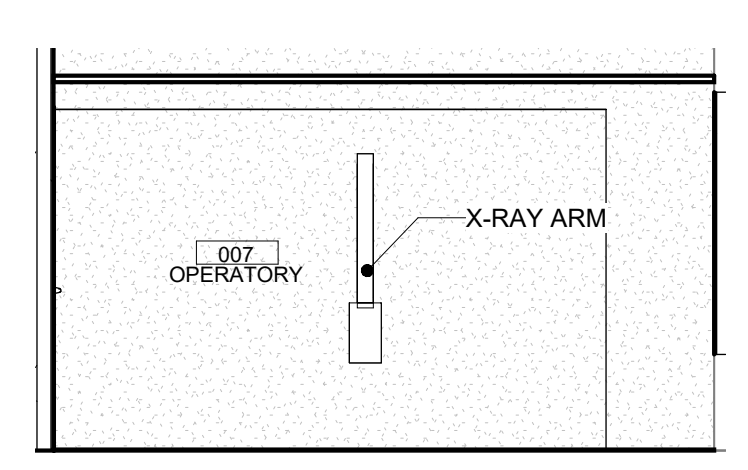
23 009 OPERATORY NORTH  
 A-251 1/4" = 1'-0"



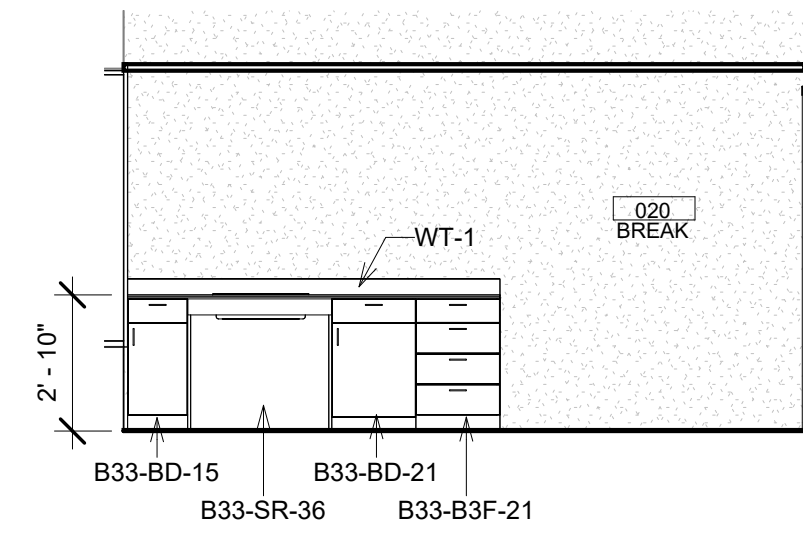
22 007 OPERATORY WEST  
 A-251 1/4" = 1'-0"



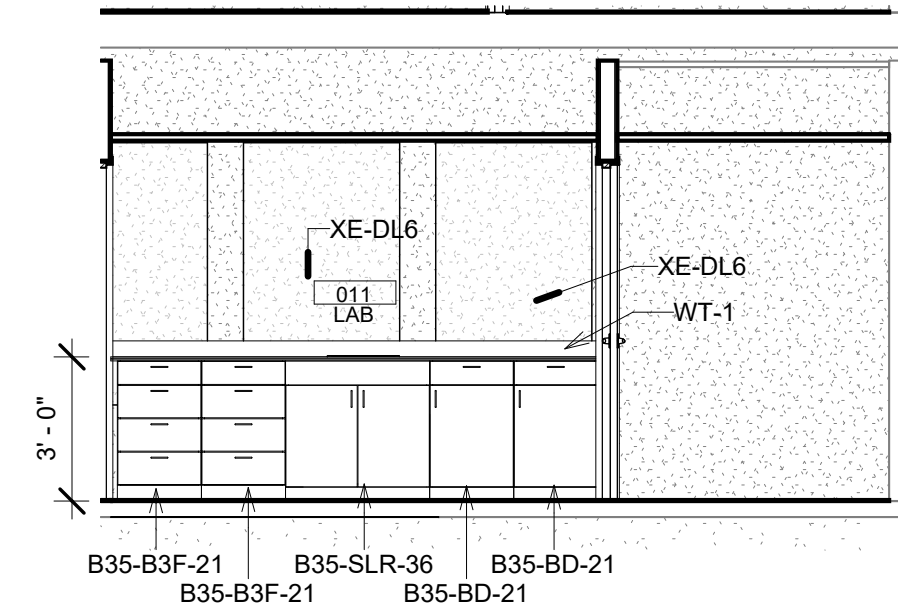
21 007 OPERATORY SOUTH  
 A-251 1/4" = 1'-0"



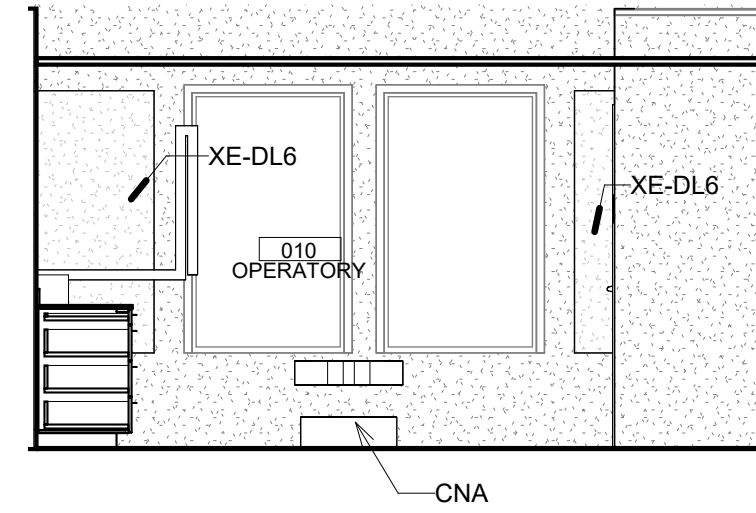
20 007 OPERATORY EAST  
 A-251 1/4" = 1'-0"



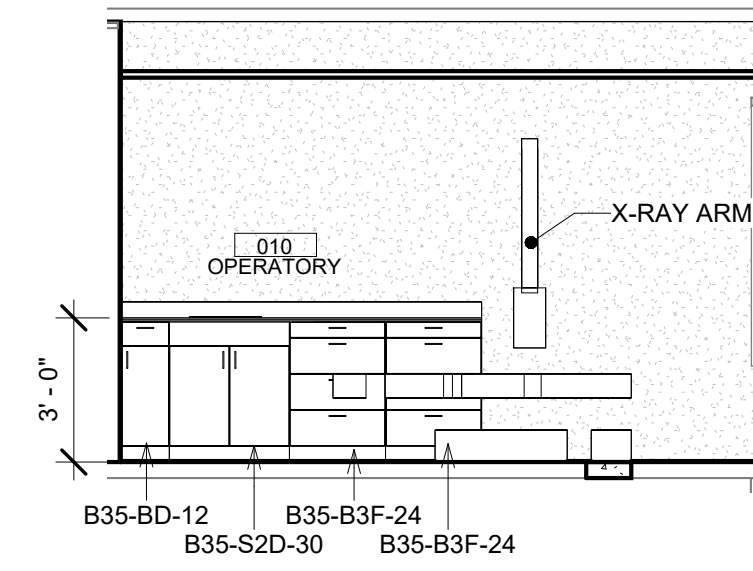
6 020 BREAK NORTH  
A-250 1/4" = 1'-0"



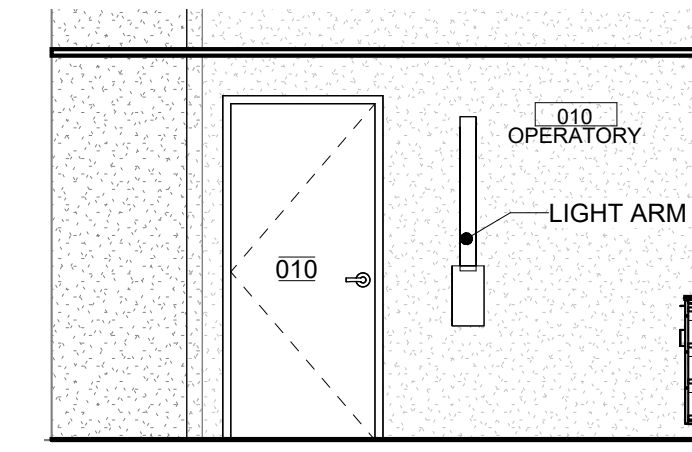
5 011 LAB WEST  
A-250 1/4" = 1'-0"



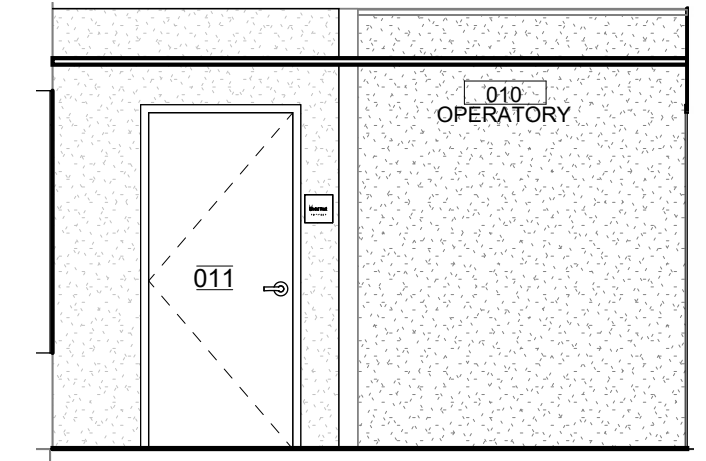
4 010 OPERATORY WEST  
A-251 1/4" = 1'-0"



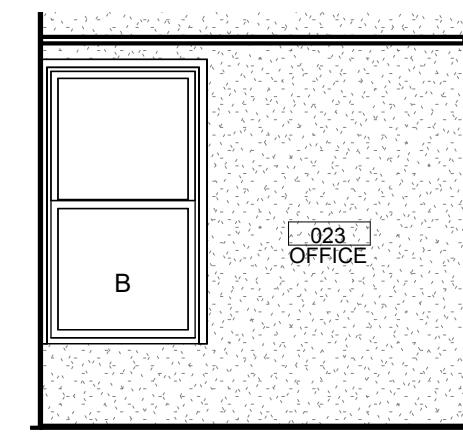
3 010 OPERATORY SOUTH  
A-251 1/4" = 1'-0"



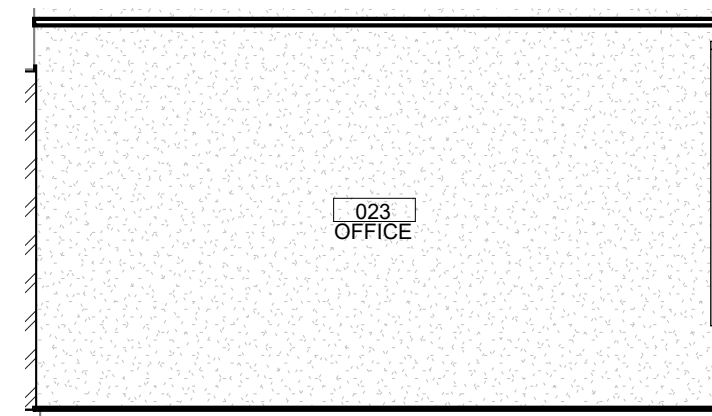
2 010 OPERATORY EAST  
A-251 1/4" = 1'-0"



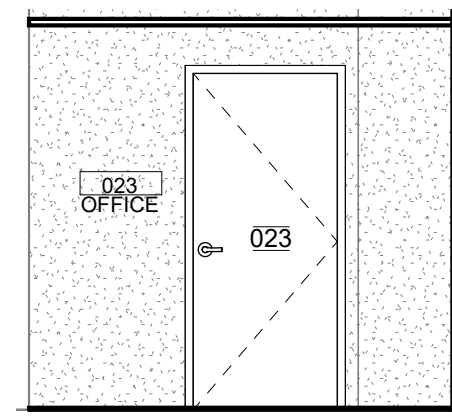
1 010 OPERATORY NORTH  
A-251 1/4" = 1'-0"



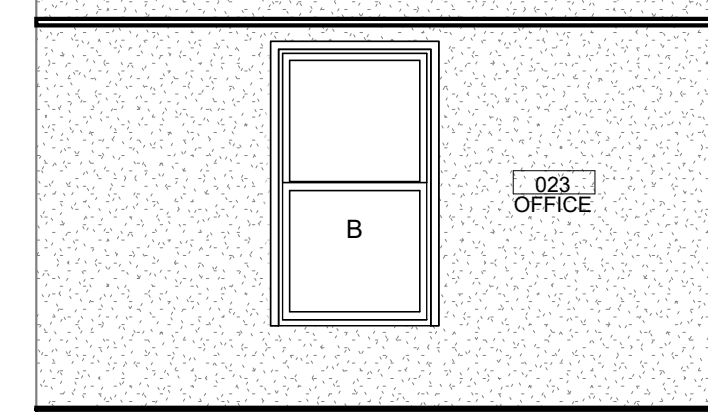
13 023 OFFICE WEST  
A-250 1/4" = 1'-0"



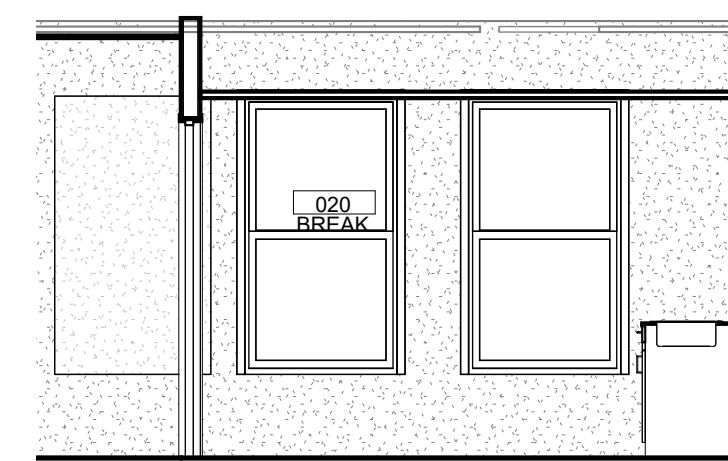
12 023 OFFICE SOUTH  
A-250 1/4" = 1'-0"



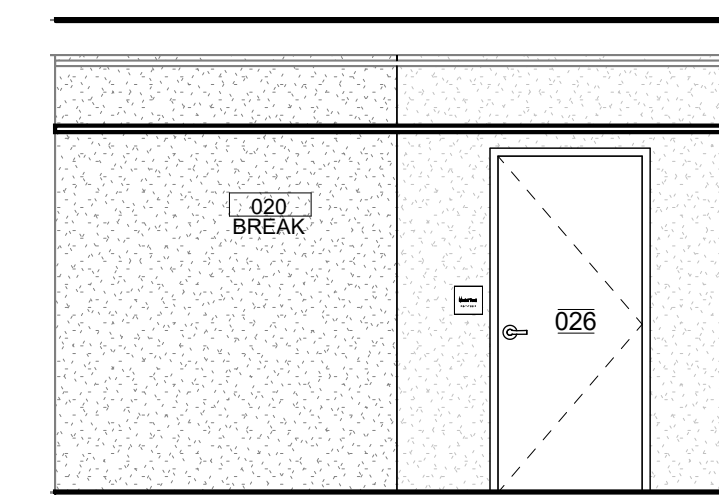
11 023 OFFICE EAST  
A-250 1/4" = 1'-0"



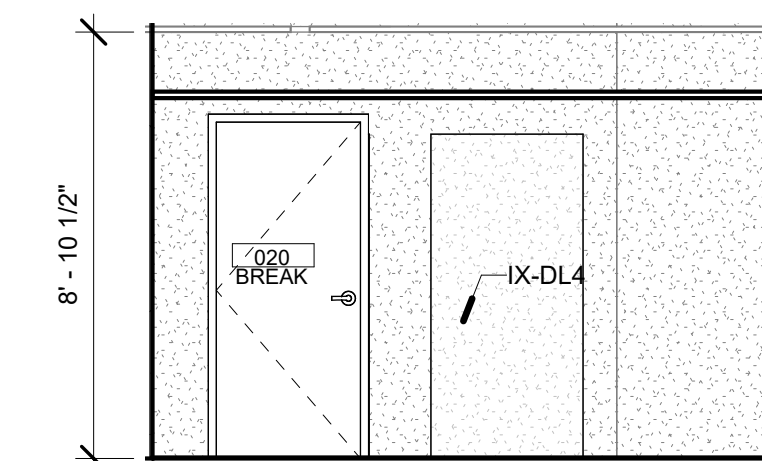
10 023 OFFICE NORTH  
A-250 1/4" = 1'-0"



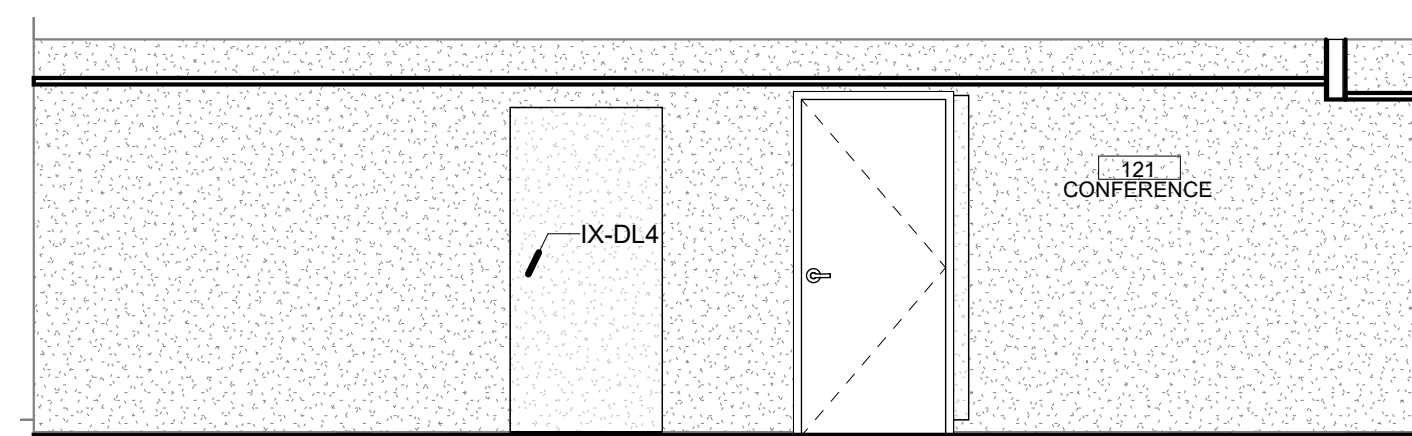
9 020 BREAK WEST  
A-250 1/4" = 1'-0"



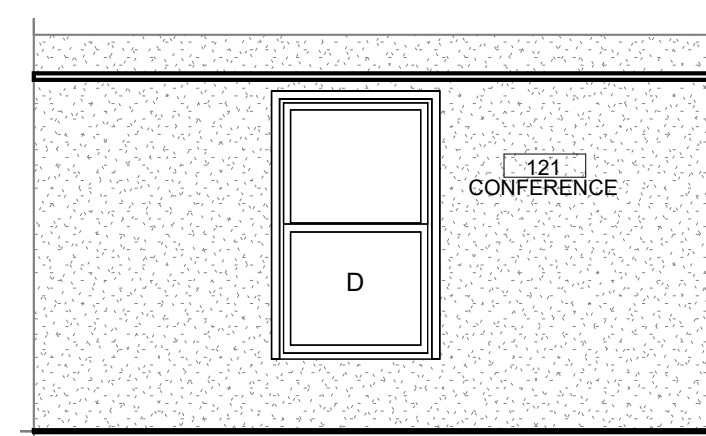
8 020 BREAK SOUTH  
A-250 1/4" = 1'-0"



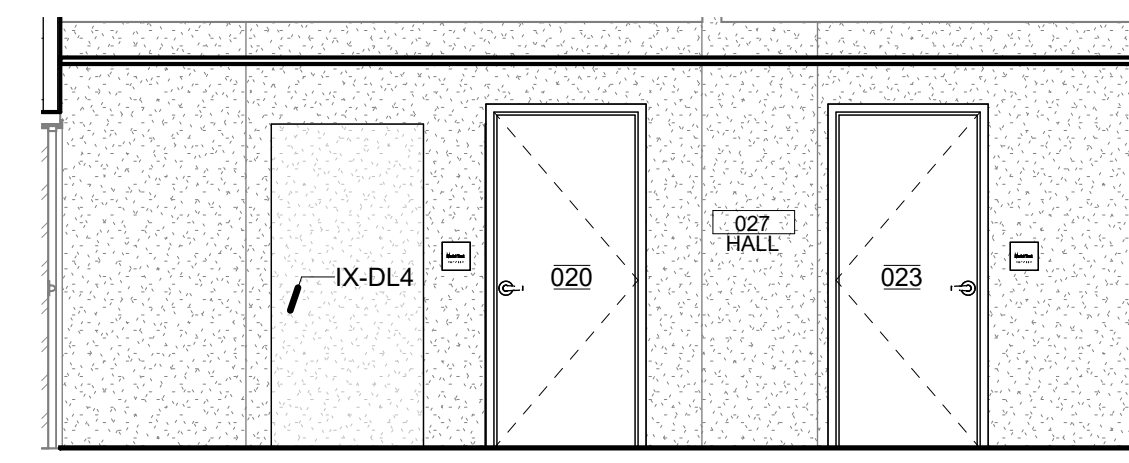
7 020 BREAK EAST  
A-250 1/4" = 1'-0"



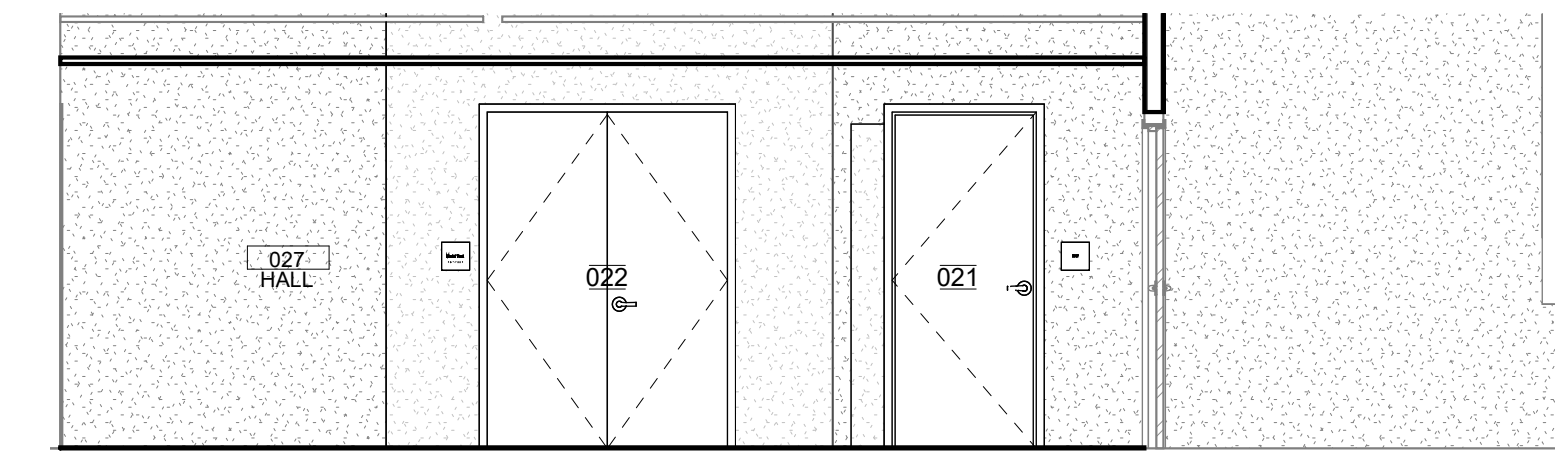
17 111 CONFERENCE EAST  
A-250 1/4" = 1'-0"



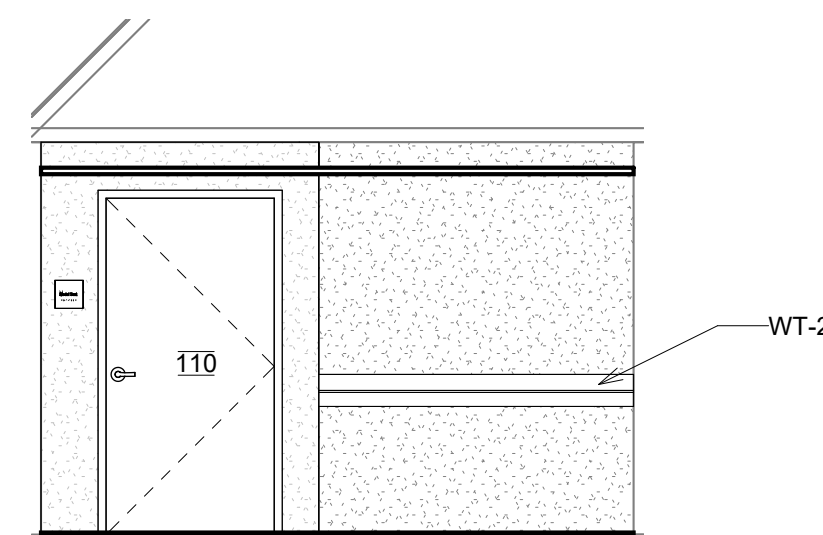
16 111 CONFERENCE NORTH  
A-250 1/4" = 1'-0"



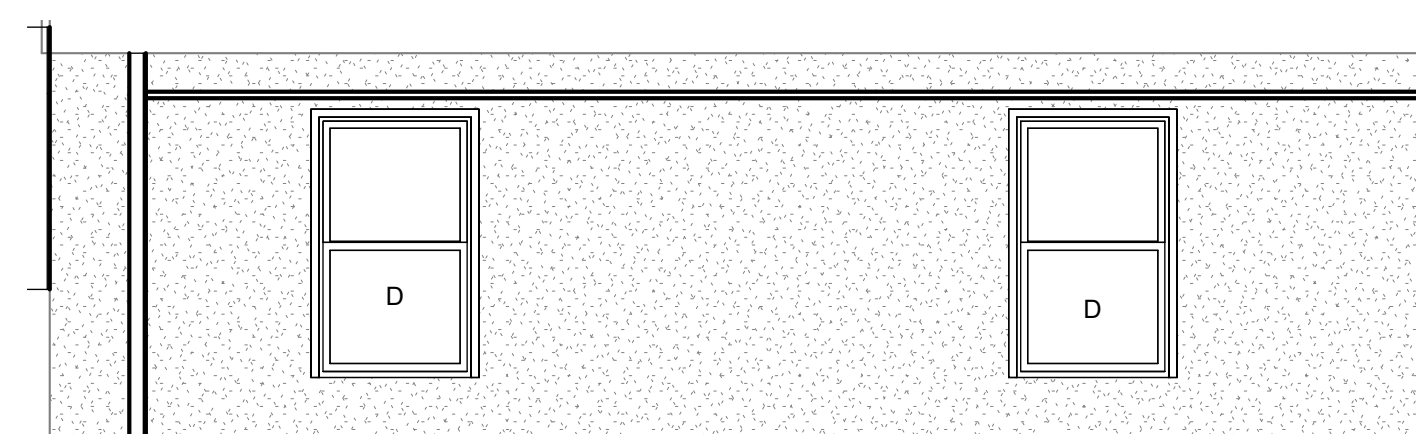
15 027 HALL WEST  
A-250 1/4" = 1'-0"



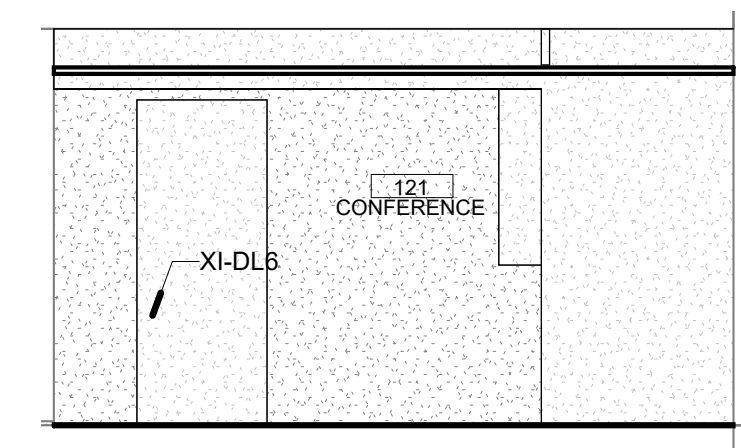
14 027 HALL EAST  
A-250 1/4" = 1'-0"



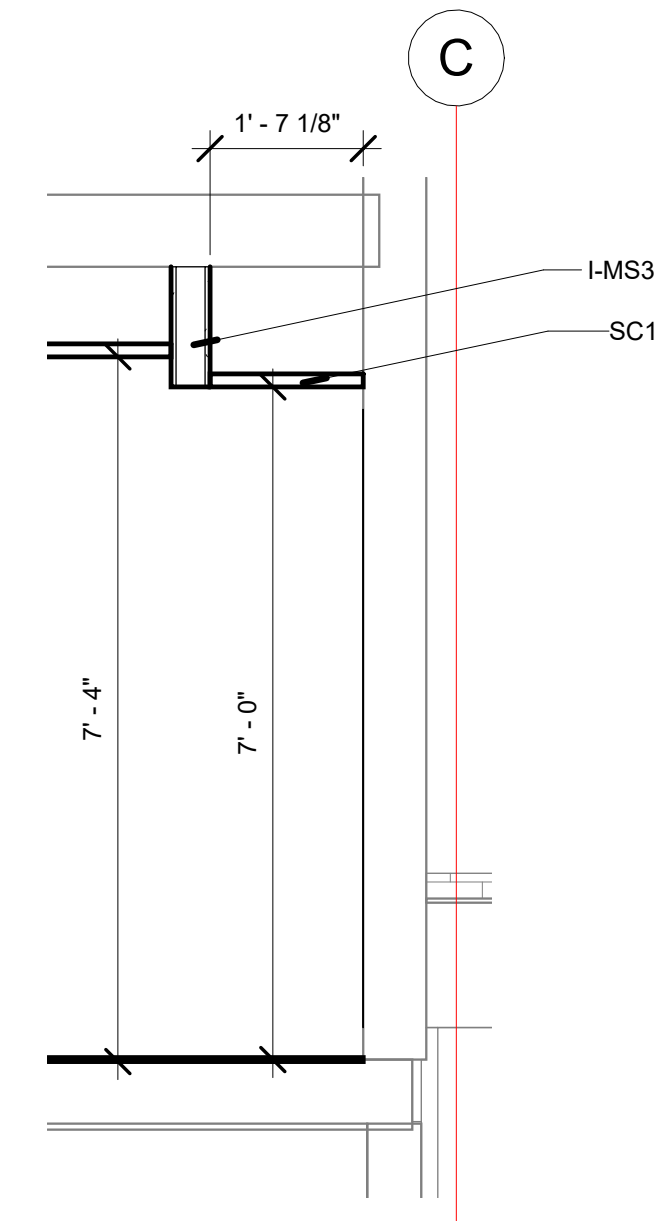
20 111 COPY NORTH  
A-250 1/4" = 1'-0"



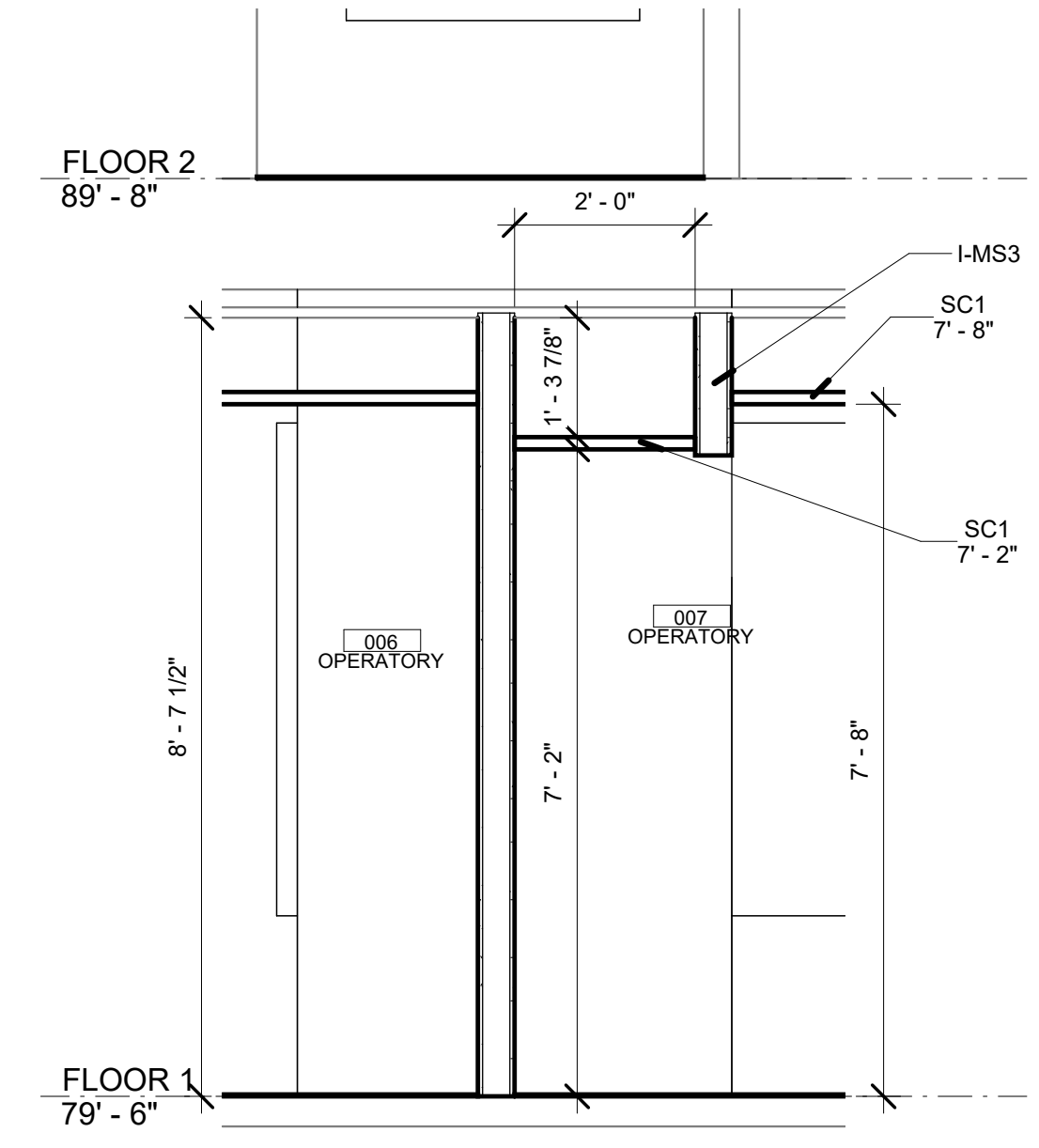
19 111 CONFERENCE WEST  
A-250 1/4" = 1'-0"



18 111 CONFERENCE SOUTH  
A-250 1/4" = 1'-0"



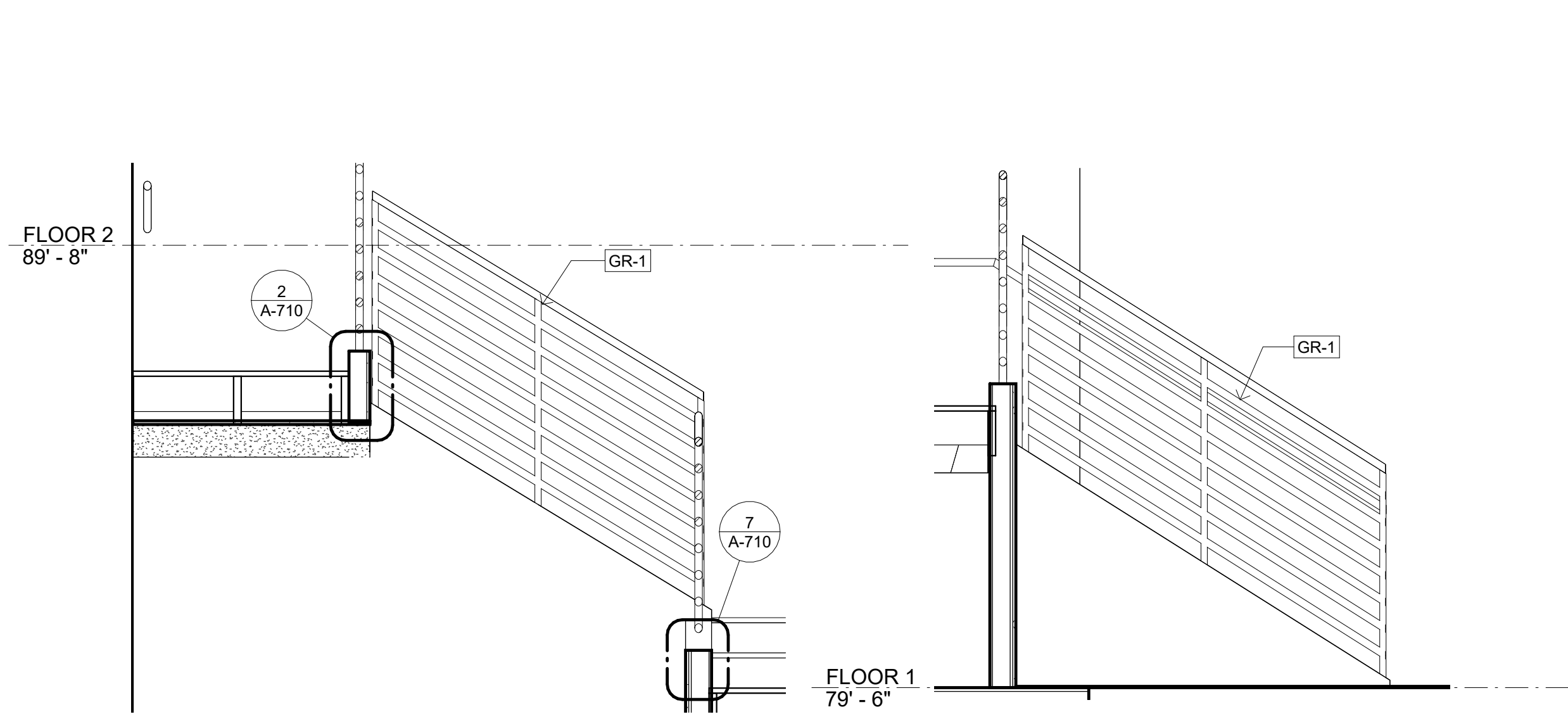
2 CONFERENCE DUCT CHASE  
A-250 1/2" = 1'-0"



1 007 OPERATORY DUCT CHASE  
A-210 1/2" = 1'-0"

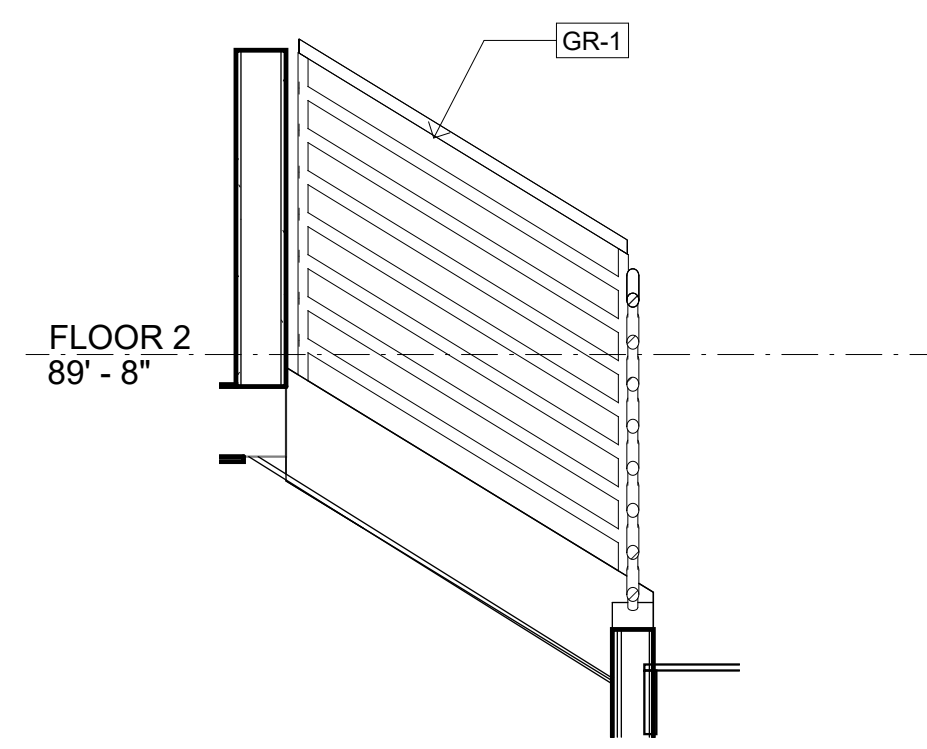


HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION

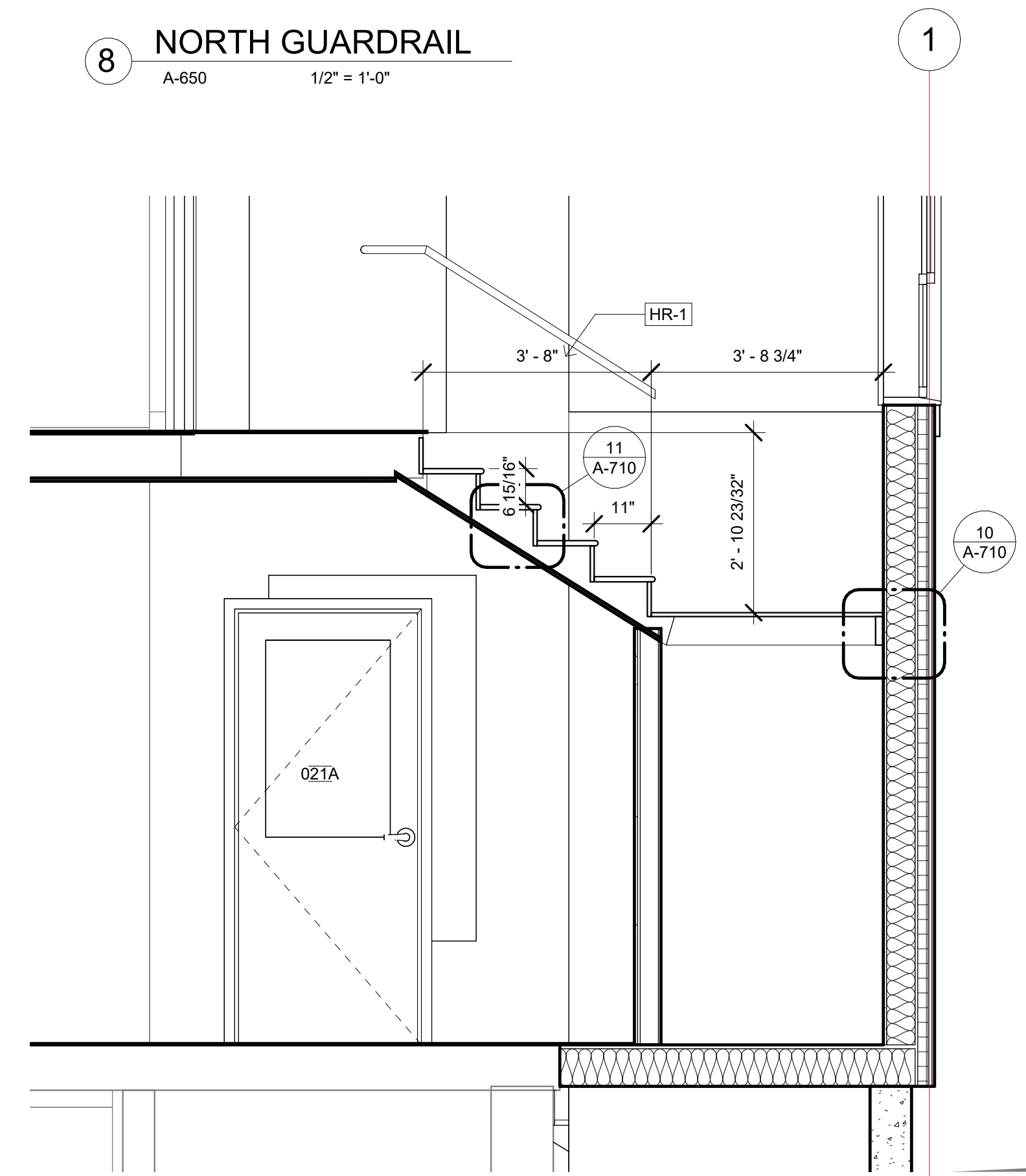


7 EAST GUARDRAIL  
A-650 1/2" = 1'-0"

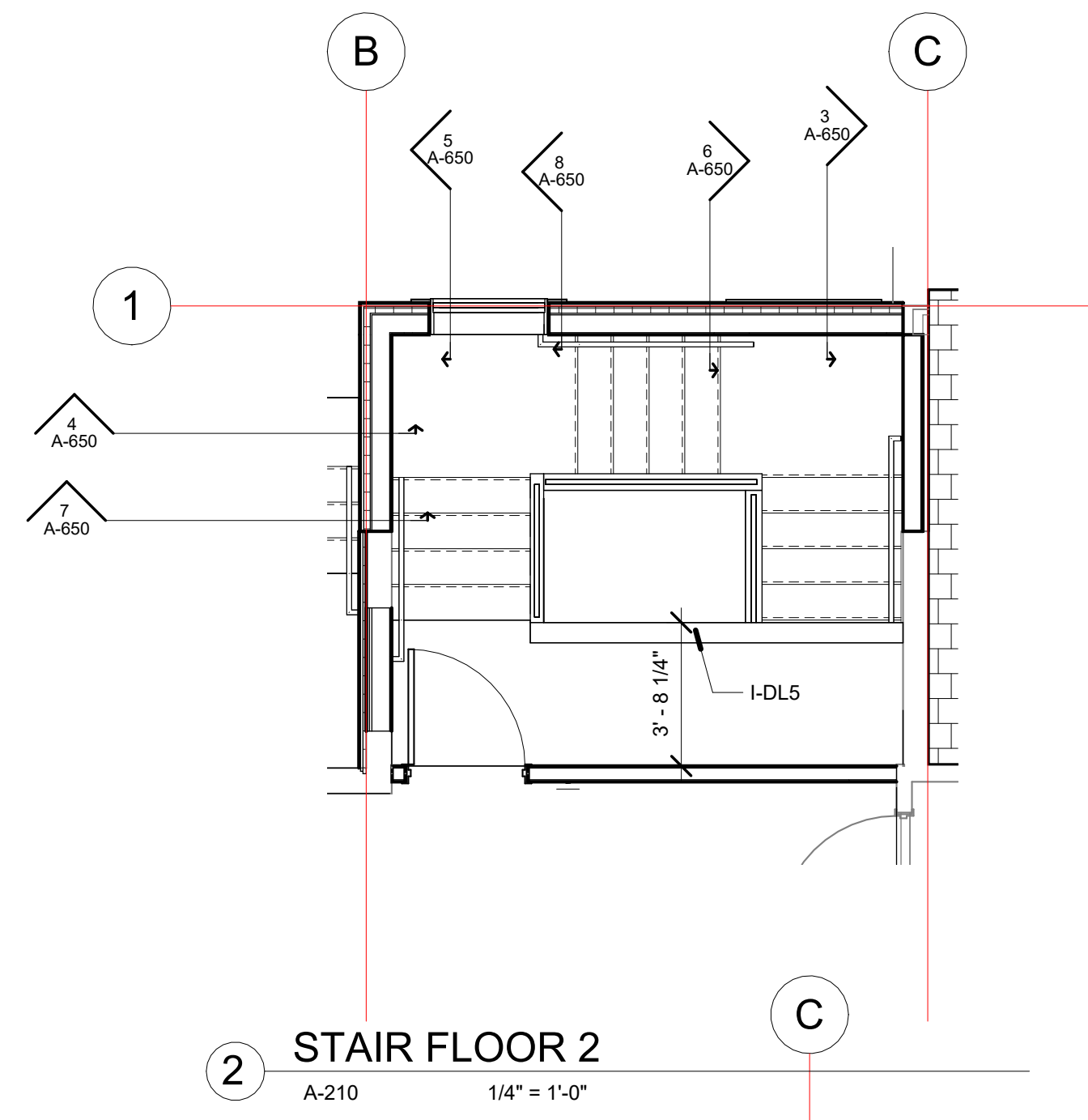
6 SOUTH GUARDRAIL  
A-650 1/2" = 1'-0"



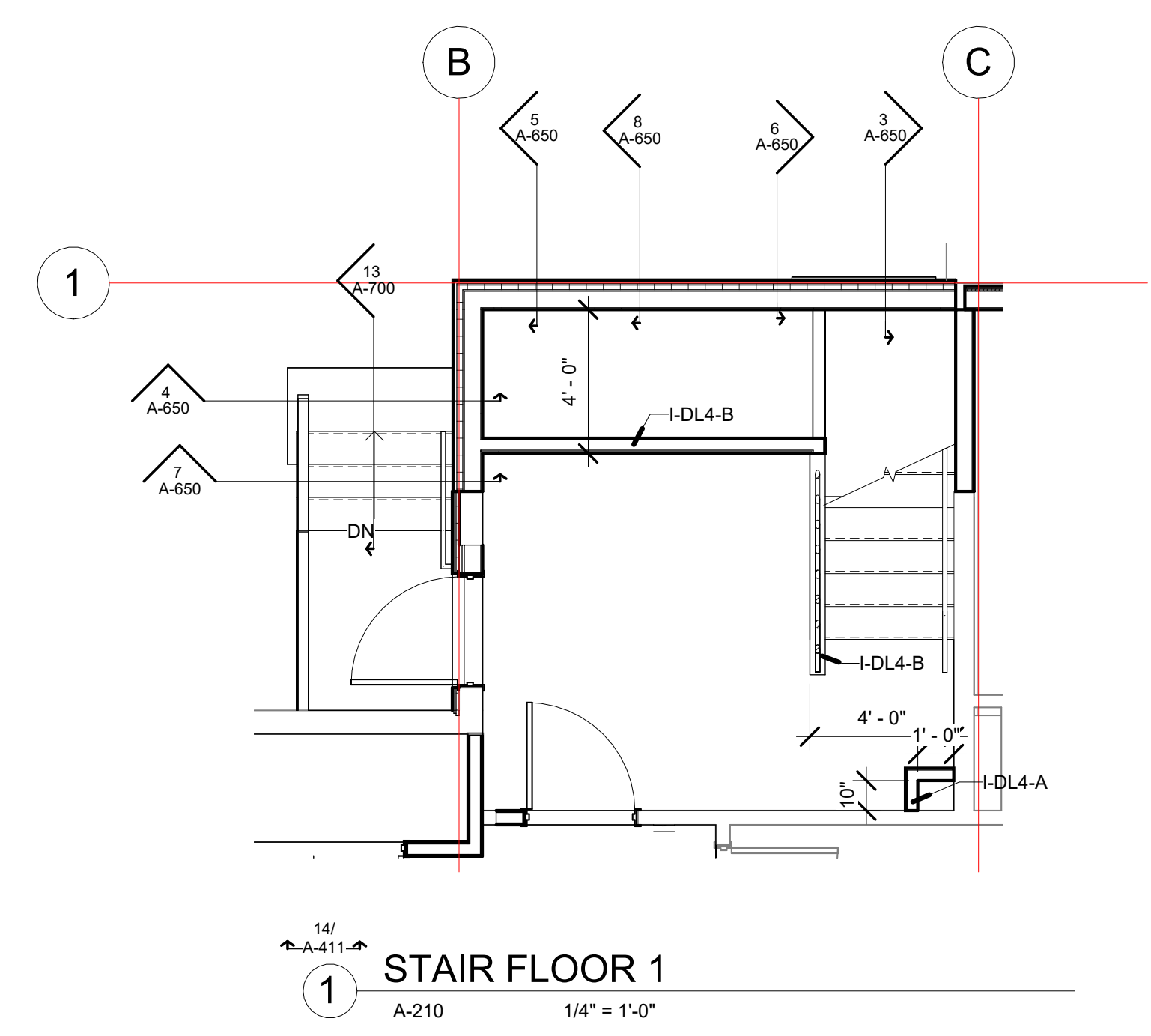
8 NORTH GUARDRAIL  
A-650 1/2" = 1'-0"



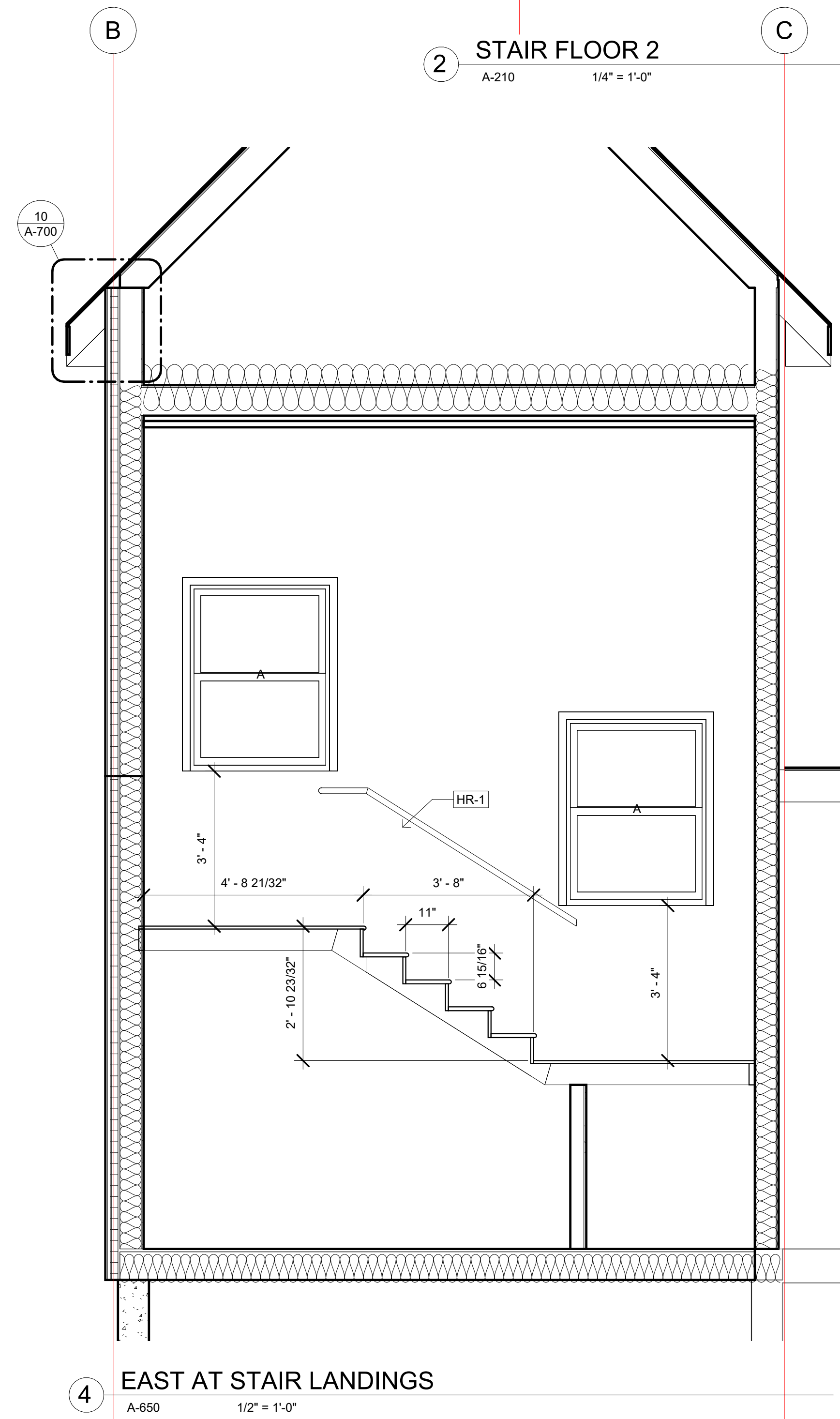
5 NORTH AT STAIR  
A-650 1/2" = 1'-0"



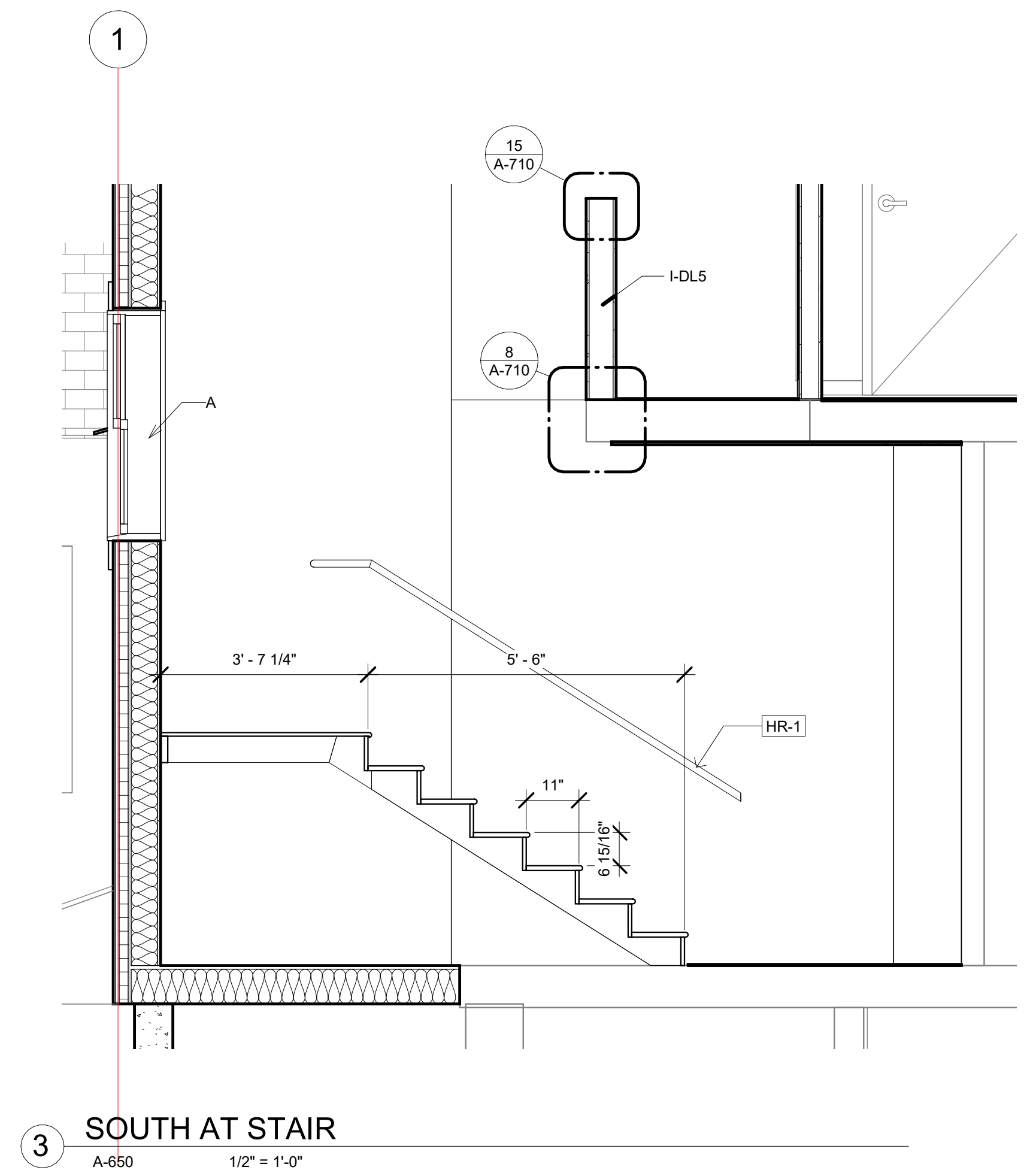
2 STAIR FLOOR 2  
A-210 1/4" = 1'-0"



1 STAIR FLOOR 1  
A-210 1/4" = 1'-0"



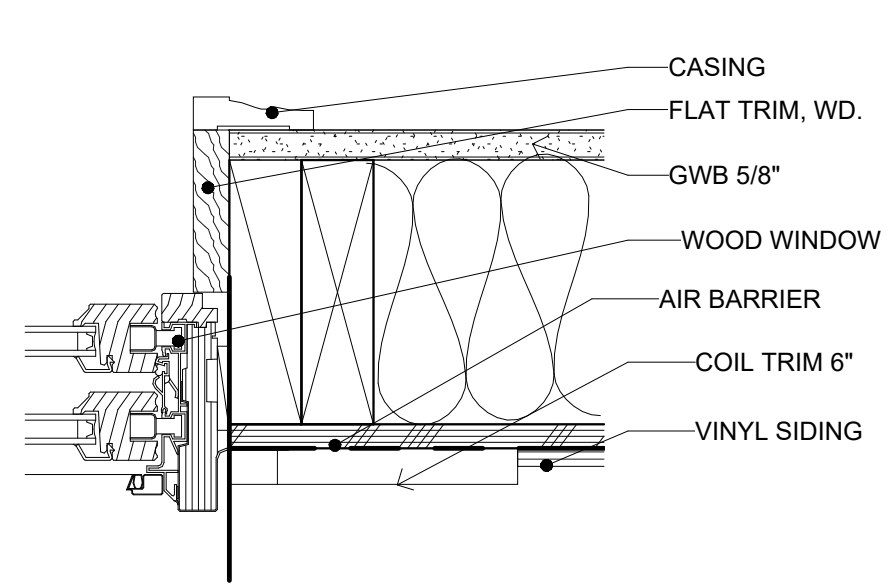
4 EAST AT STAIR LANDINGS  
A-650 1/2" = 1'-0"



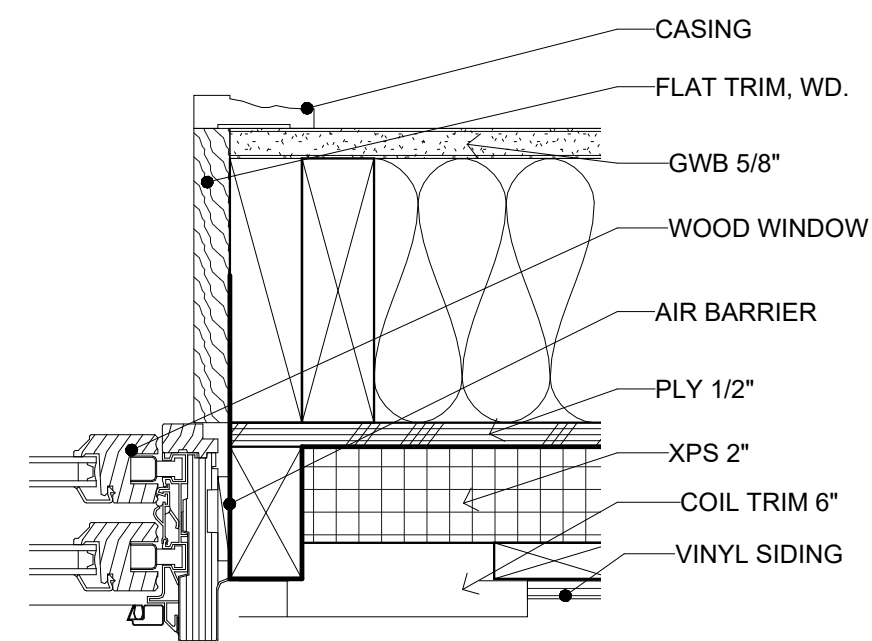
3 SOUTH AT STAIR  
A-650 1/2" = 1'-0"



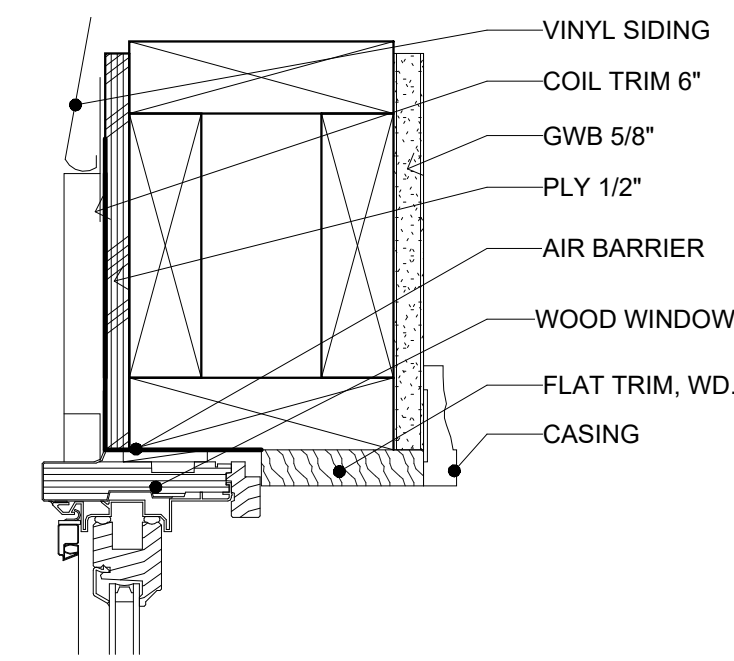
HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION



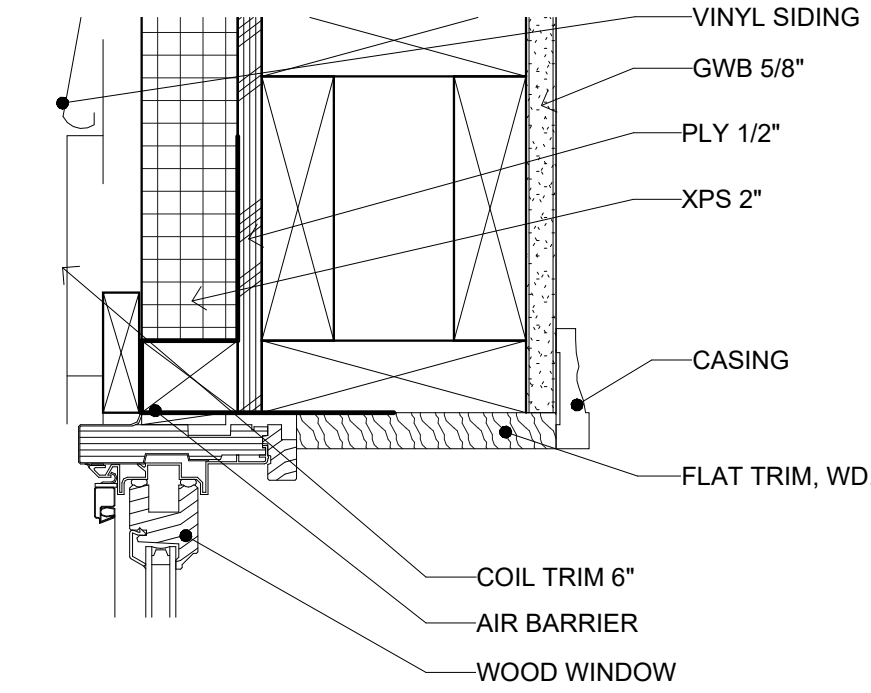
4 WINDOW JAMB AT EXISTING  
A-400 3\" = 1'-0"



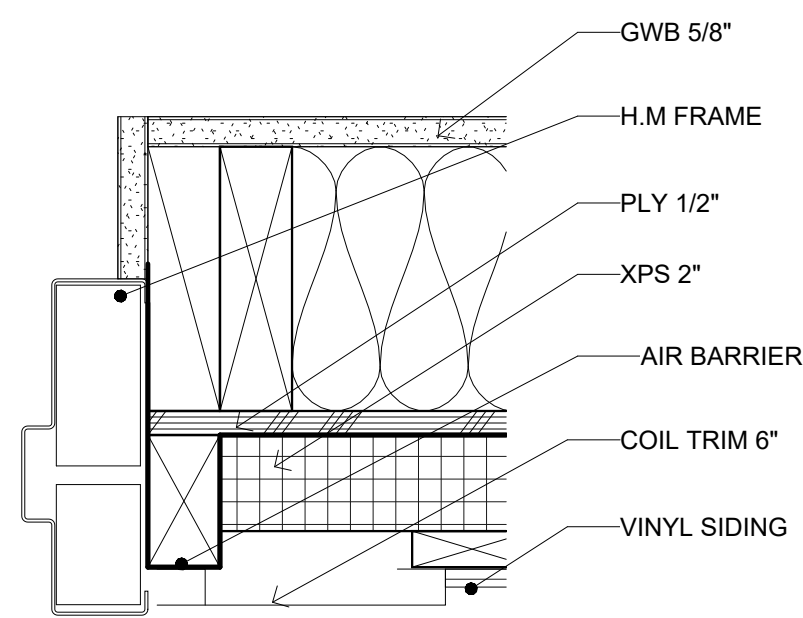
3 WINDOW JAMB AT ADDITION  
A-400 3\" = 1'-0"



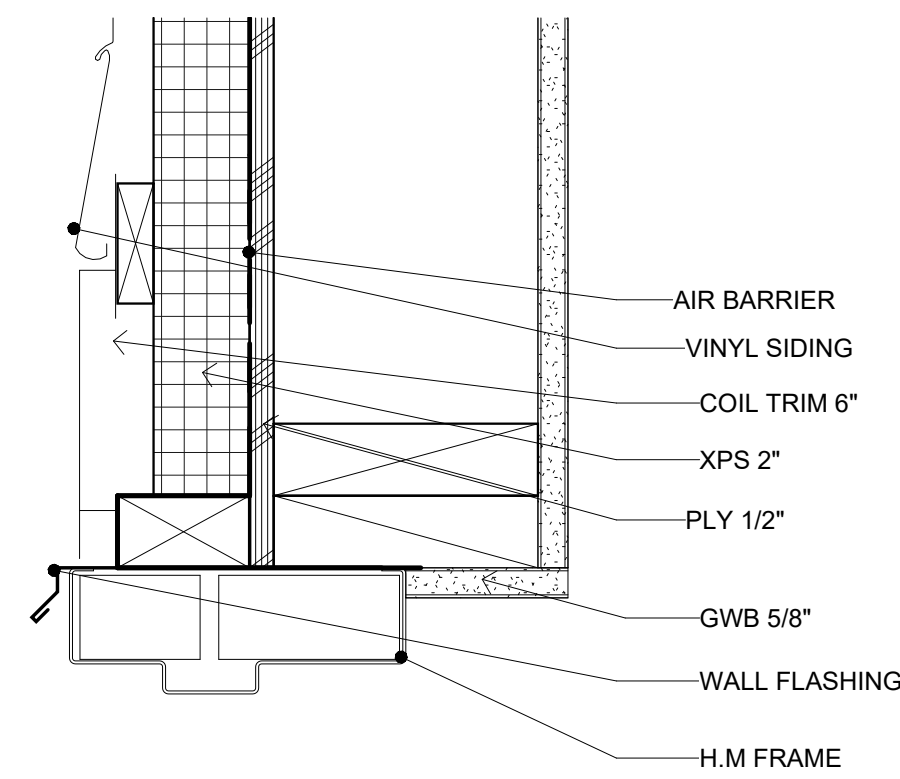
2 WINDOW HEAD AT EXISTING  
A-400 3\" = 1'-0"



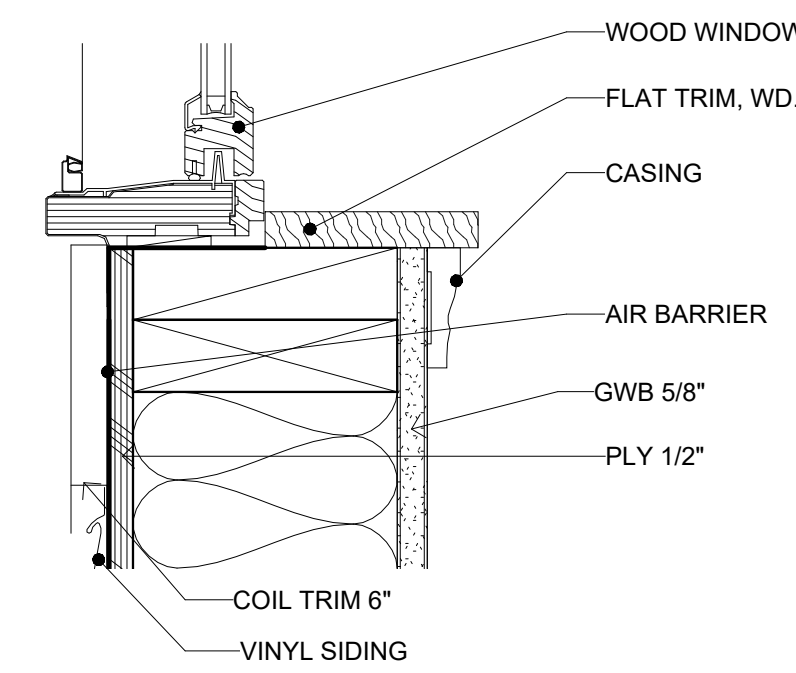
1 WINDOW HEAD AT ADDITION  
A-400 3\" = 1'-0"



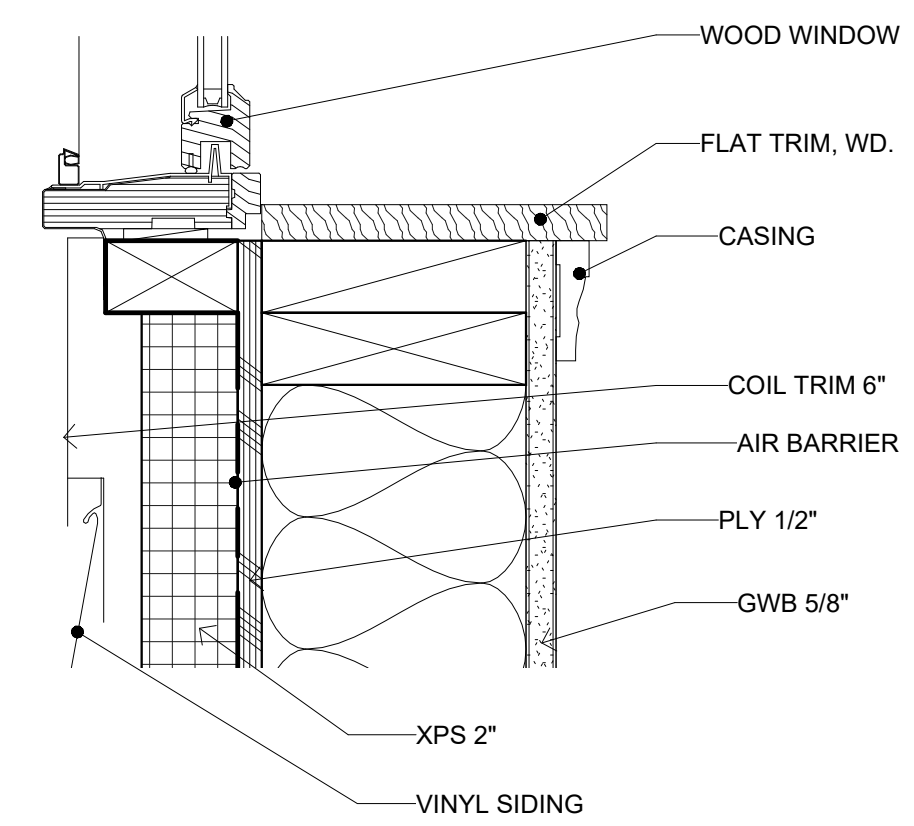
8 EXTERIOR DOOR JAMB  
3\" = 1'-0"



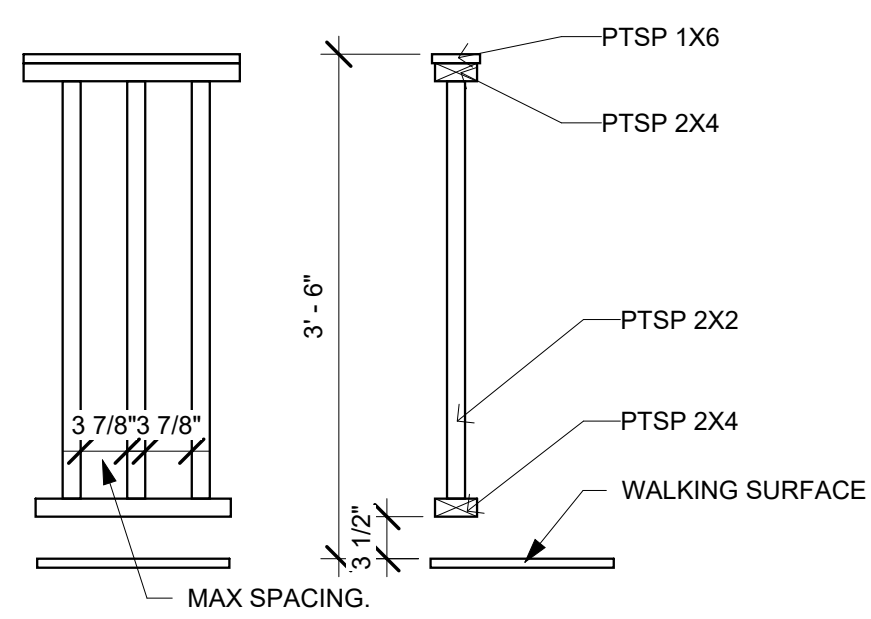
7 EXTERIOR DOOR HEAD  
3\" = 1'-0"



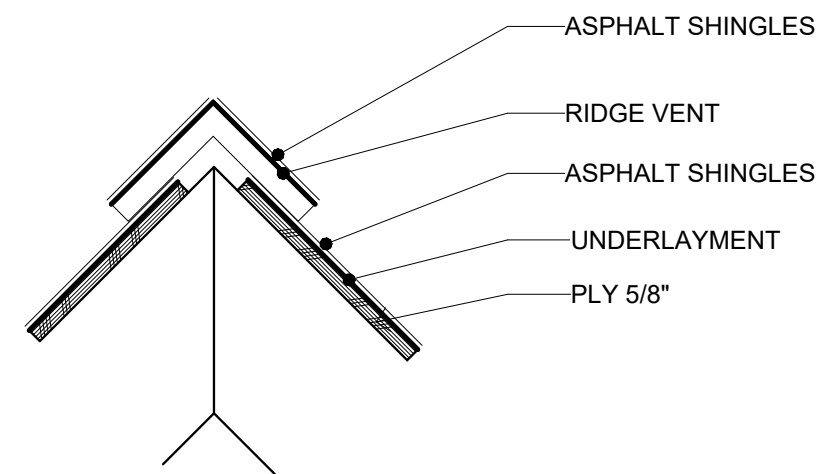
6 WINDOW SILL AT EXISTING  
A-400 3\" = 1'-0"



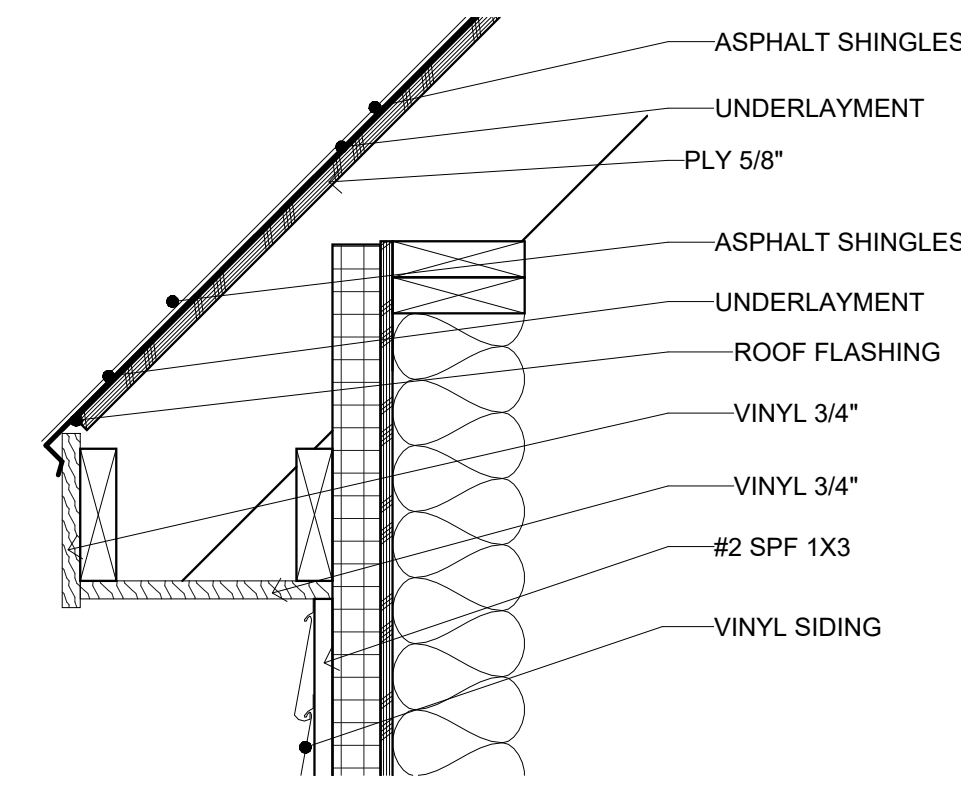
5 WINDOW SILL AT ADDITION  
A-400 3\" = 1'-0"



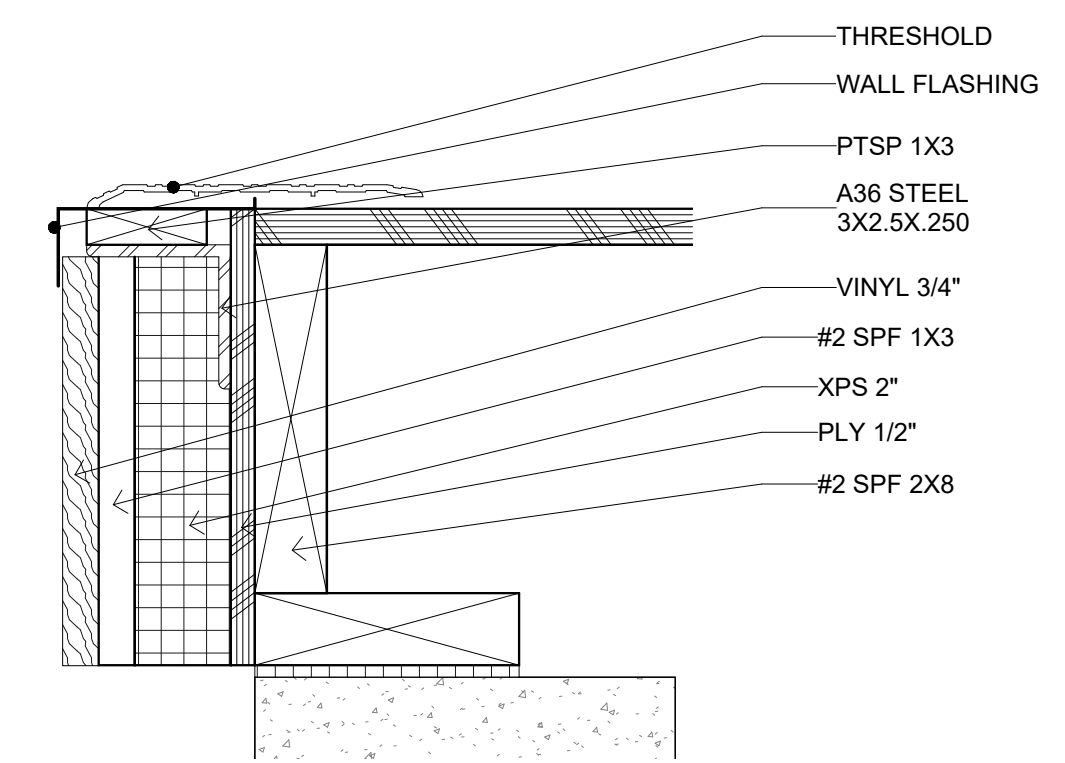
12 EXTERIOR GUARDRAIL GR-2  
3/4\" = 1'-0"



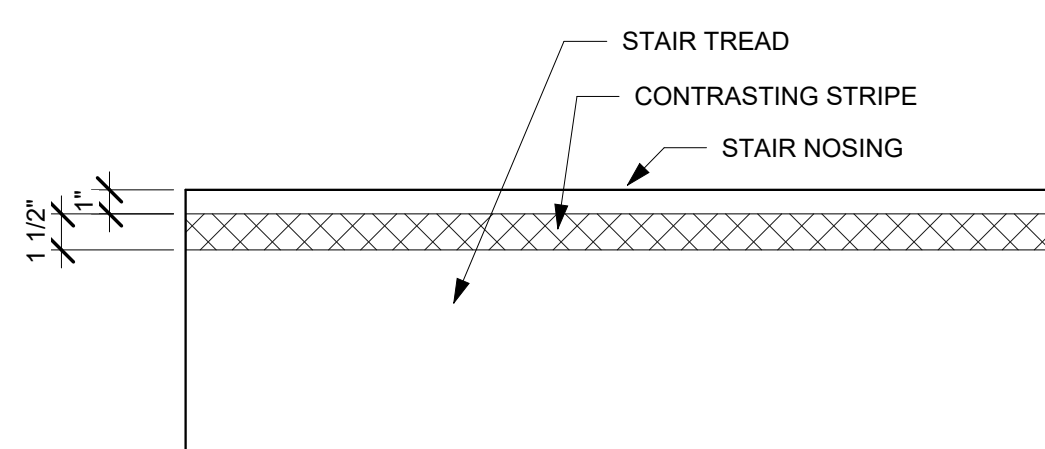
11 RIDGE VENT  
1 1/2\" = 1'-0"



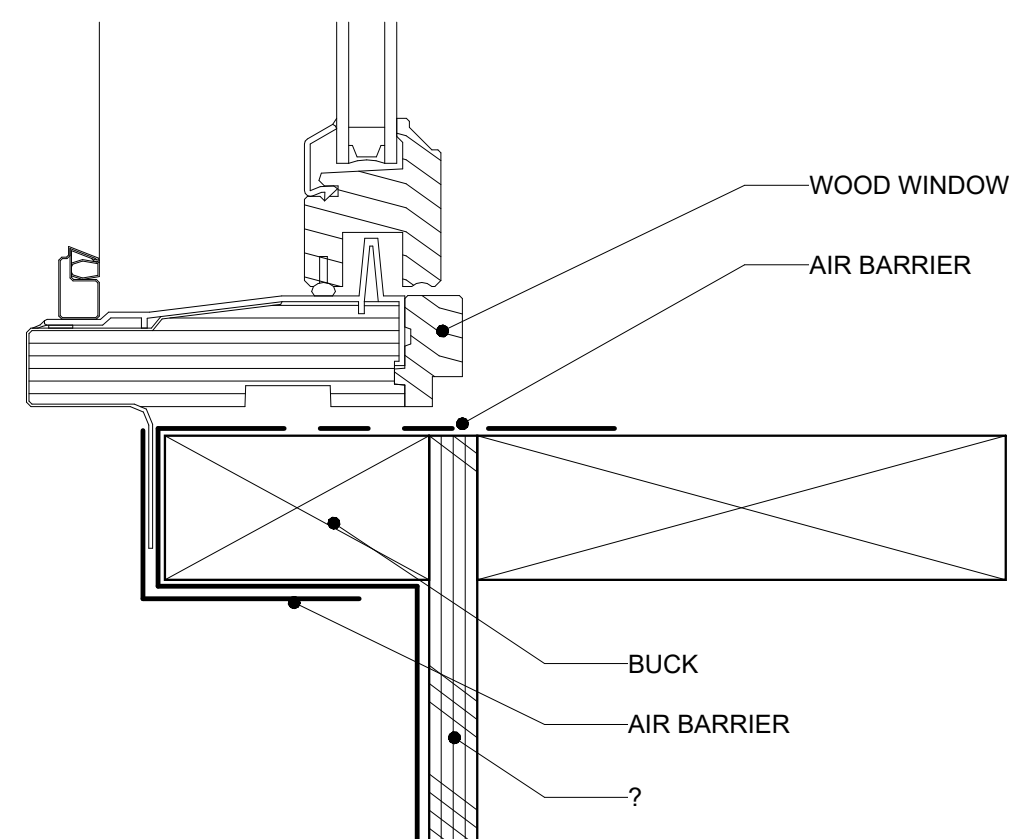
10 ROOF EAVE  
A-650 1 1/2\" = 1'-0"



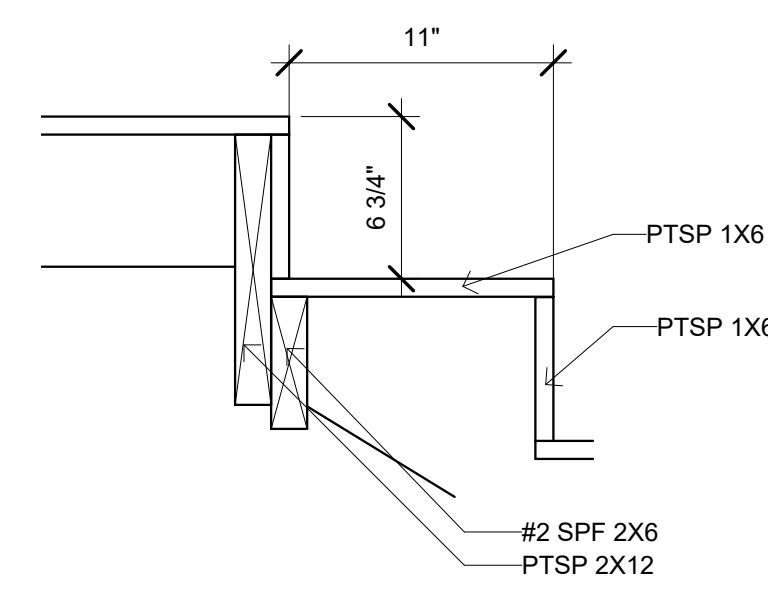
9 EXTERIOR DOOR SILL  
3\" = 1'-0"



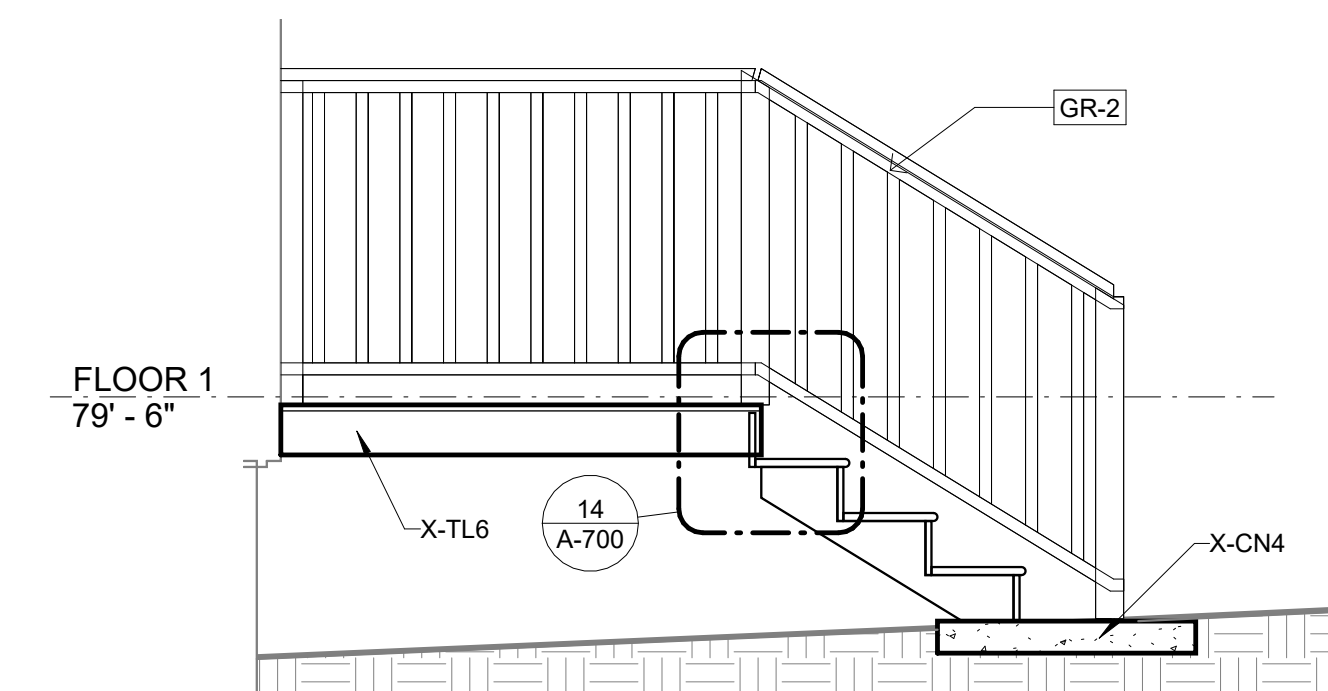
16 TREAD CONTRASTING STRIPE  
1 1/2\" = 1'-0"



15 AIR BARRIER AT BUCKS  
6\" = 1'-0"

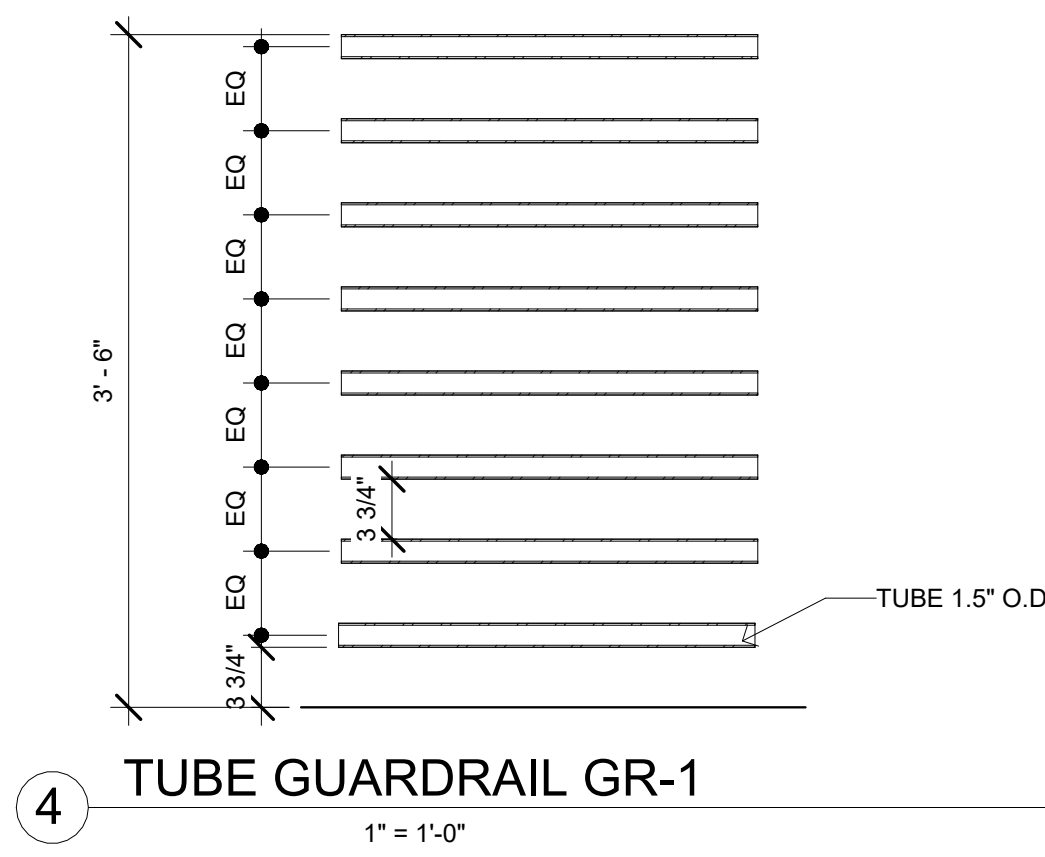


14 TOP OF EXTERIOR STAIR  
A-700 1 1/2\" = 1'-0"

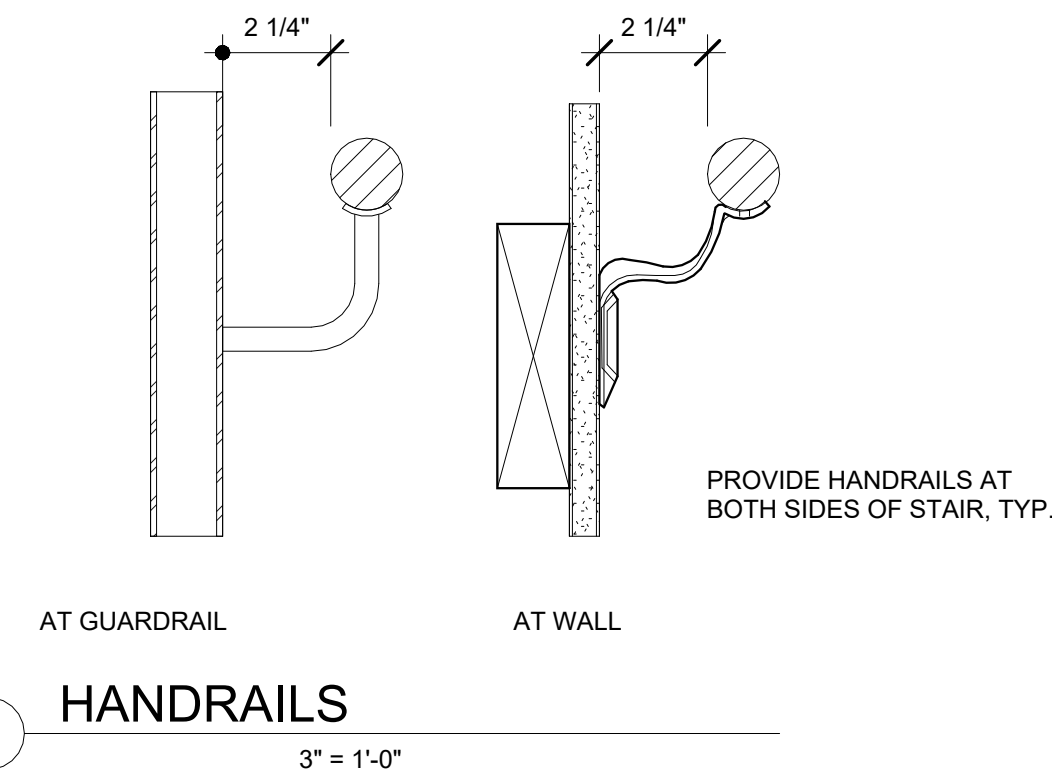


13 EXTERIOR STAIR  
A-650 1/2\" = 1'-0"

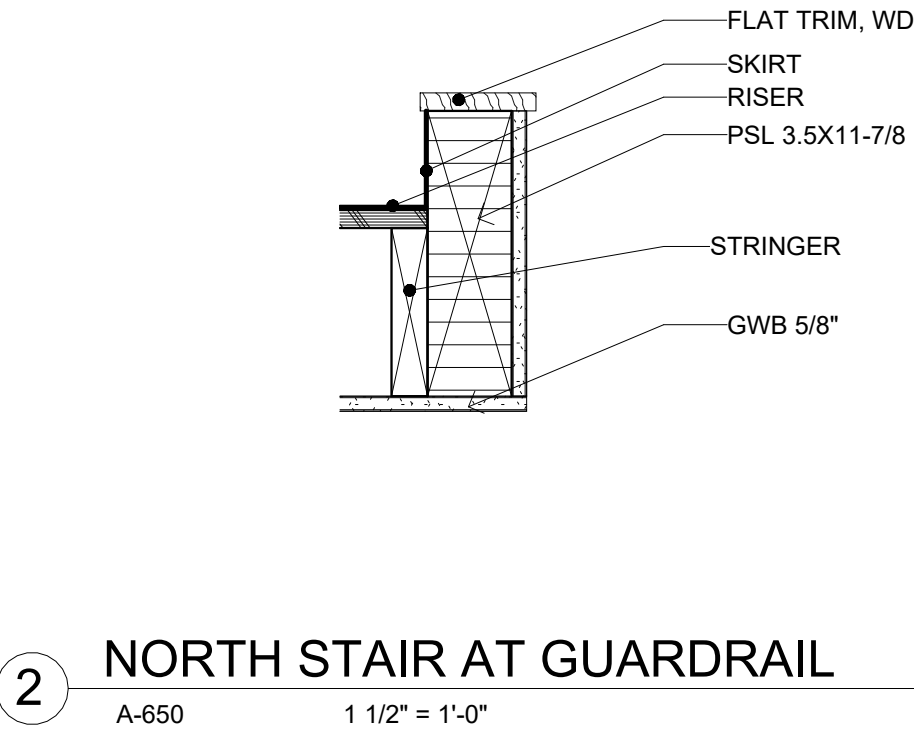




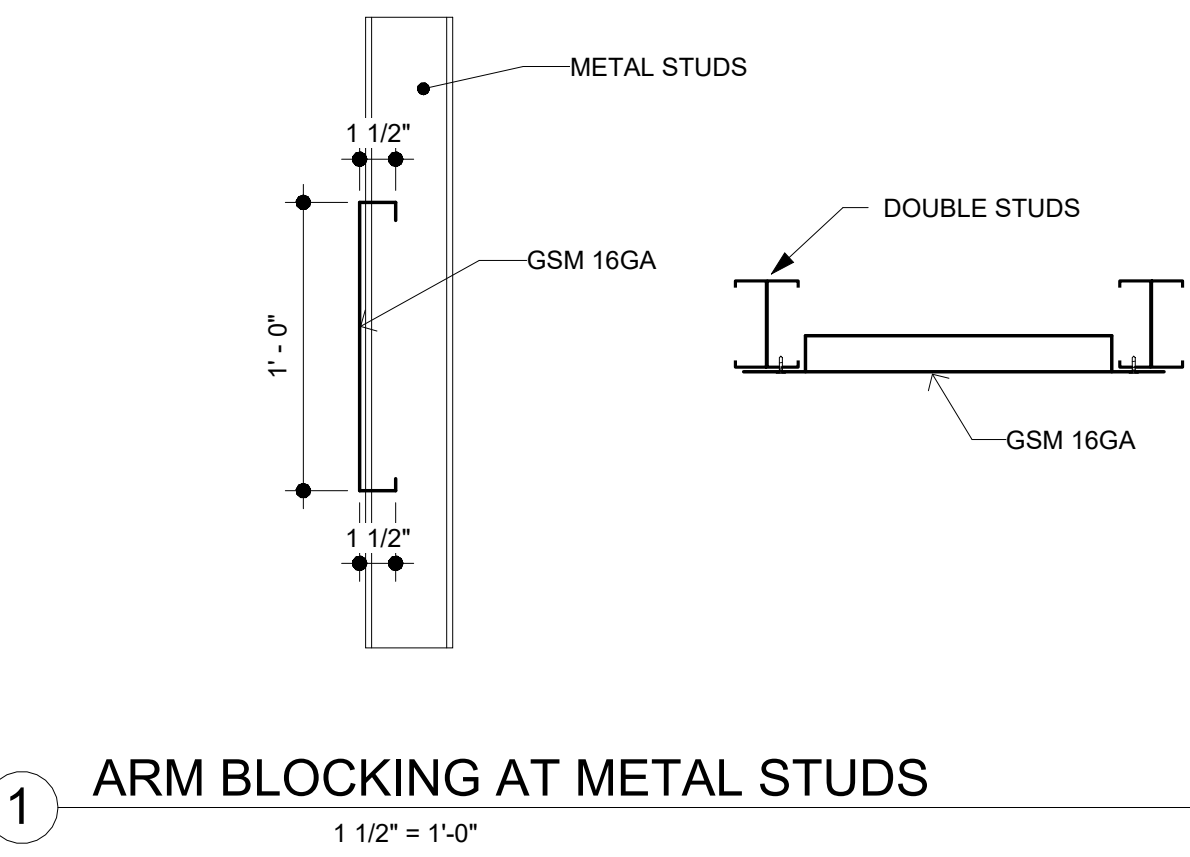
4 TUBE GUARDRAIL GR-1  
1' = 1'-0"



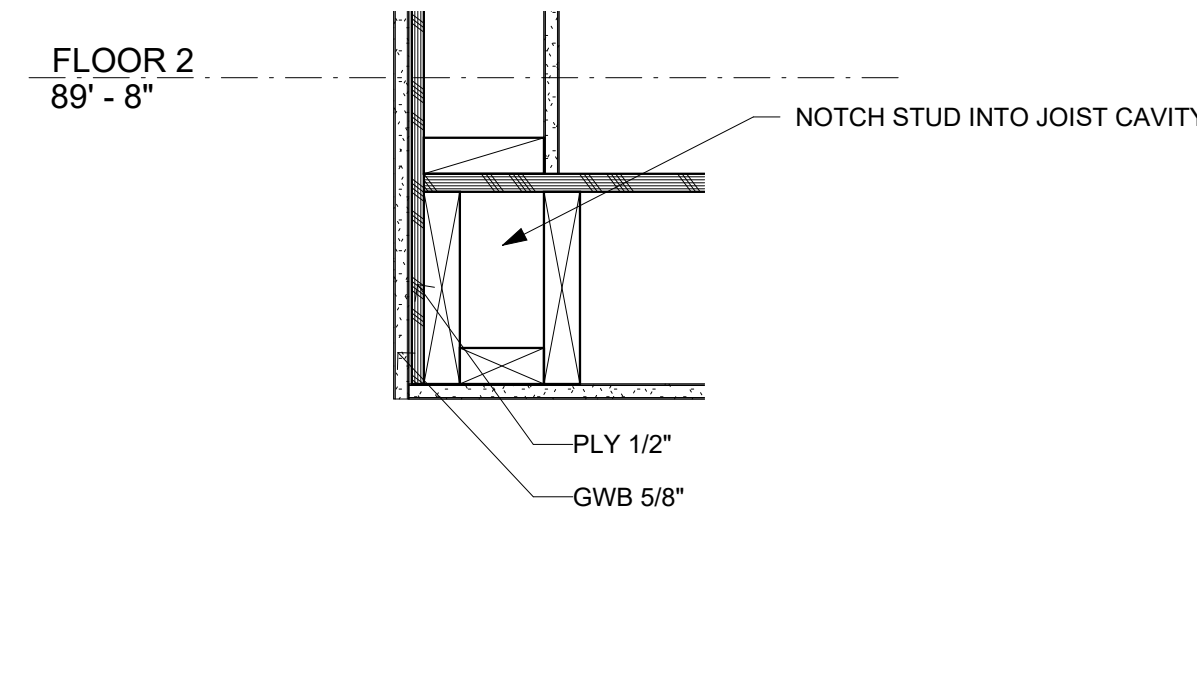
3 HANDRAILS  
3' = 1'-0"



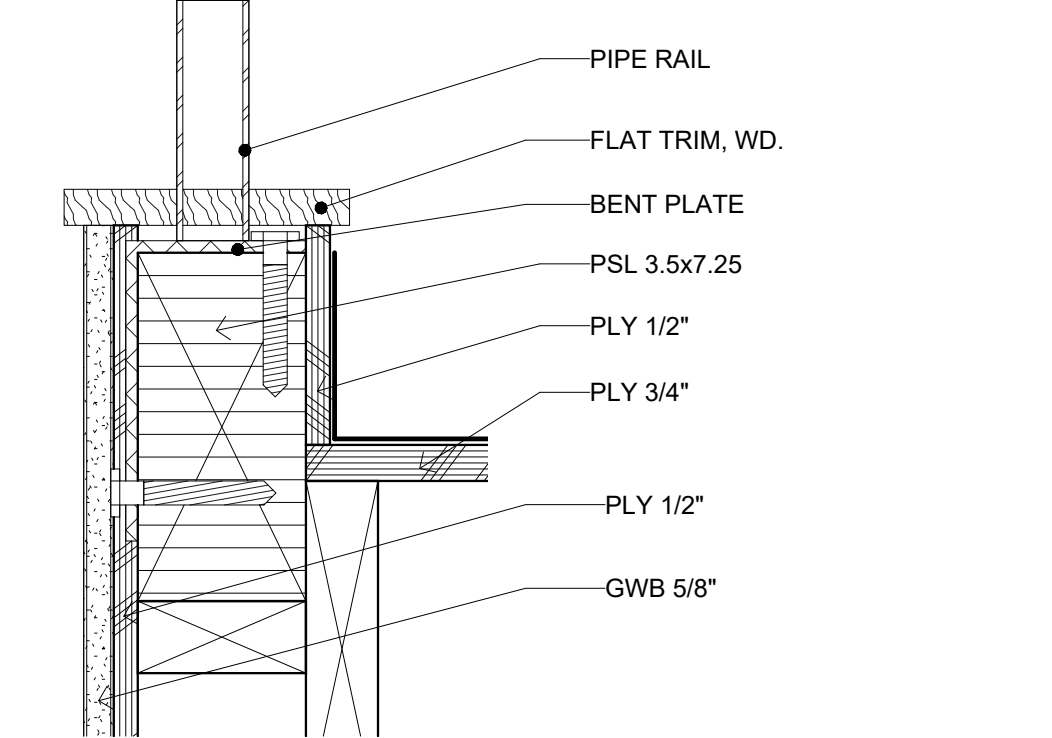
2 NORTH STAIR AT GUARDRAIL  
A-650 1 1/2' = 1'-0"



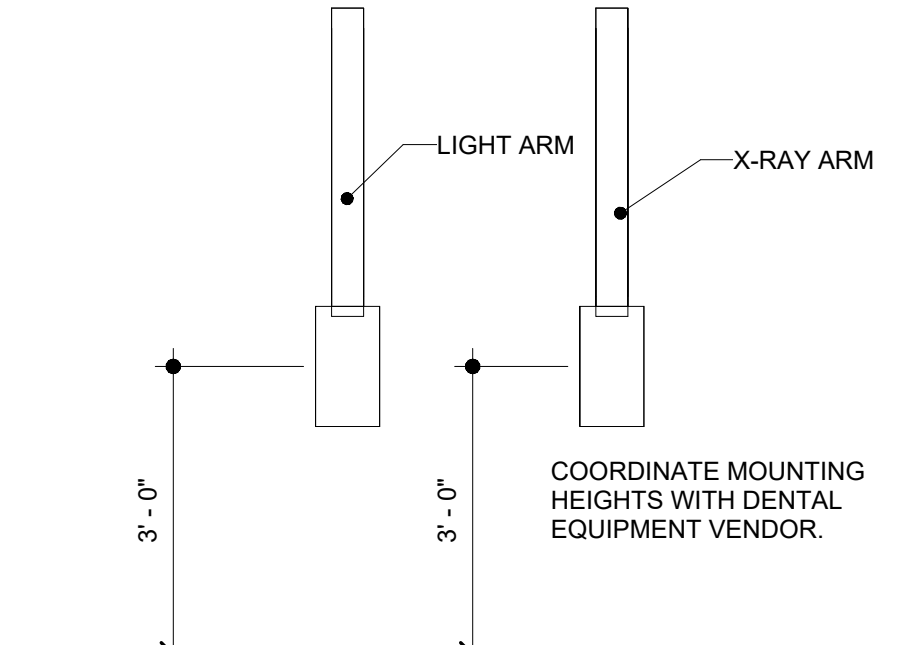
1 ARM BLOCKING AT METAL STUDS  
1 1/2' = 1'-0"



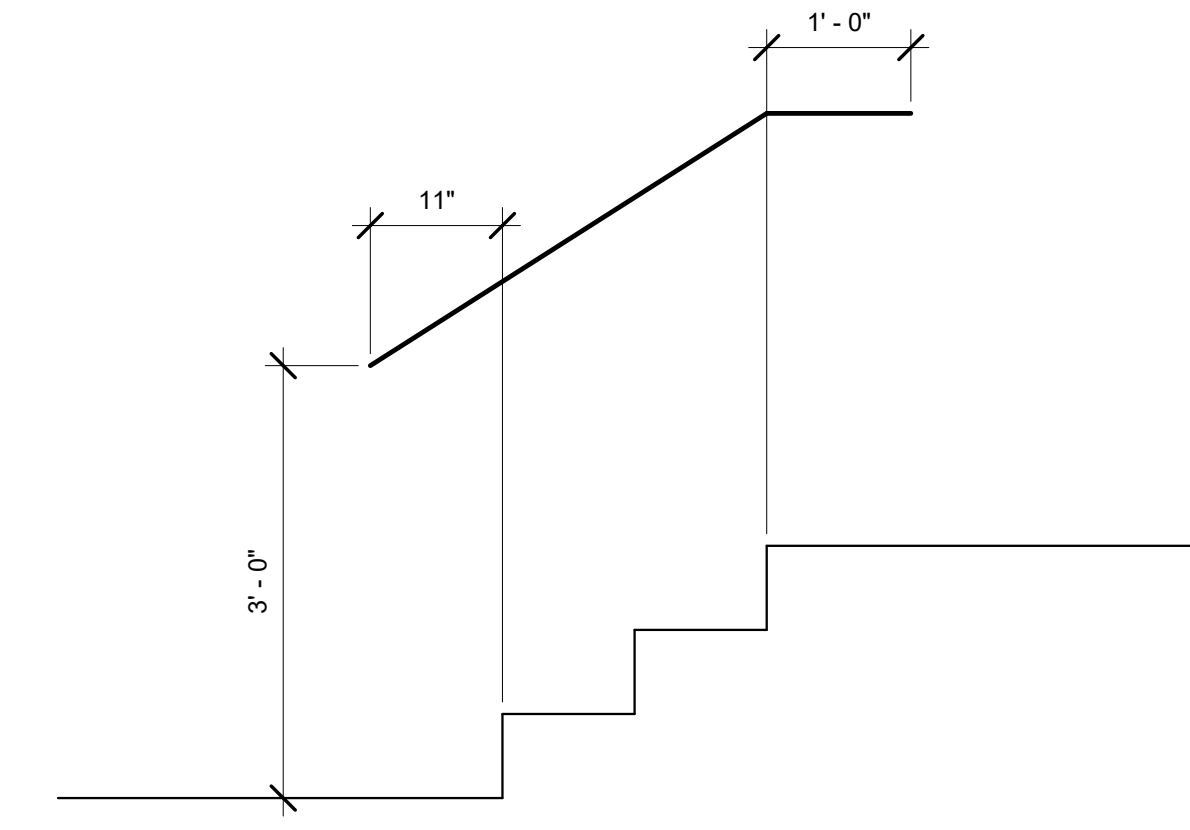
8 LANDING PONY WALL  
A-650 1 1/2' = 1'-0"



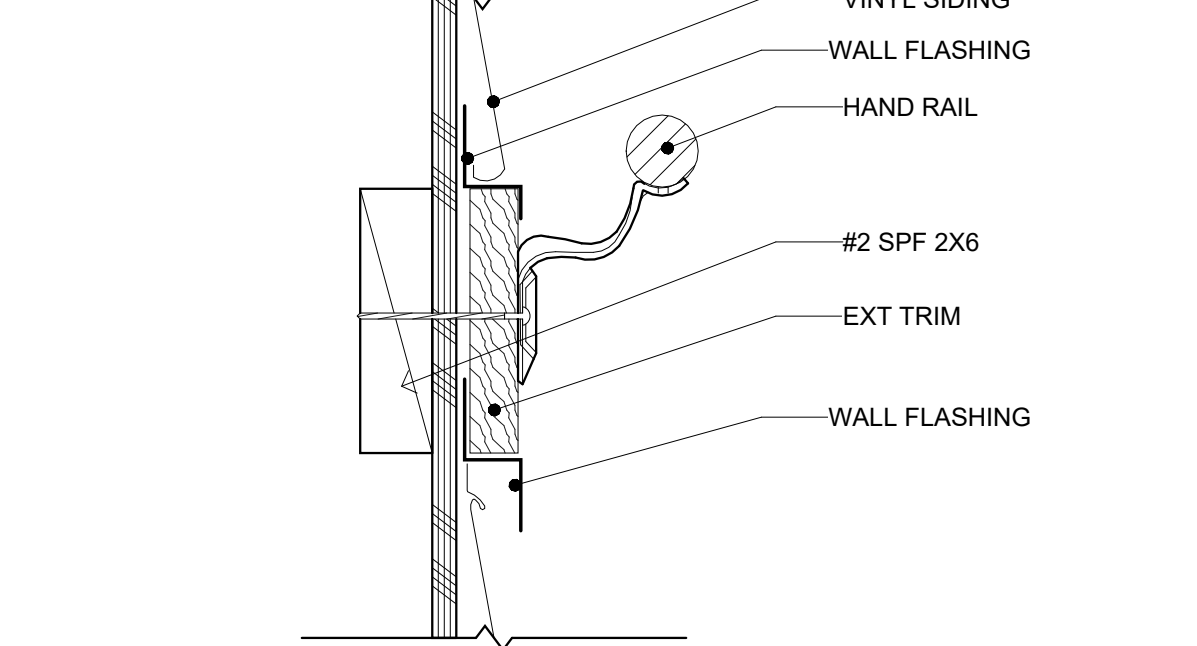
7 STAIR PONY WALL  
A-650 3' = 1'-0"



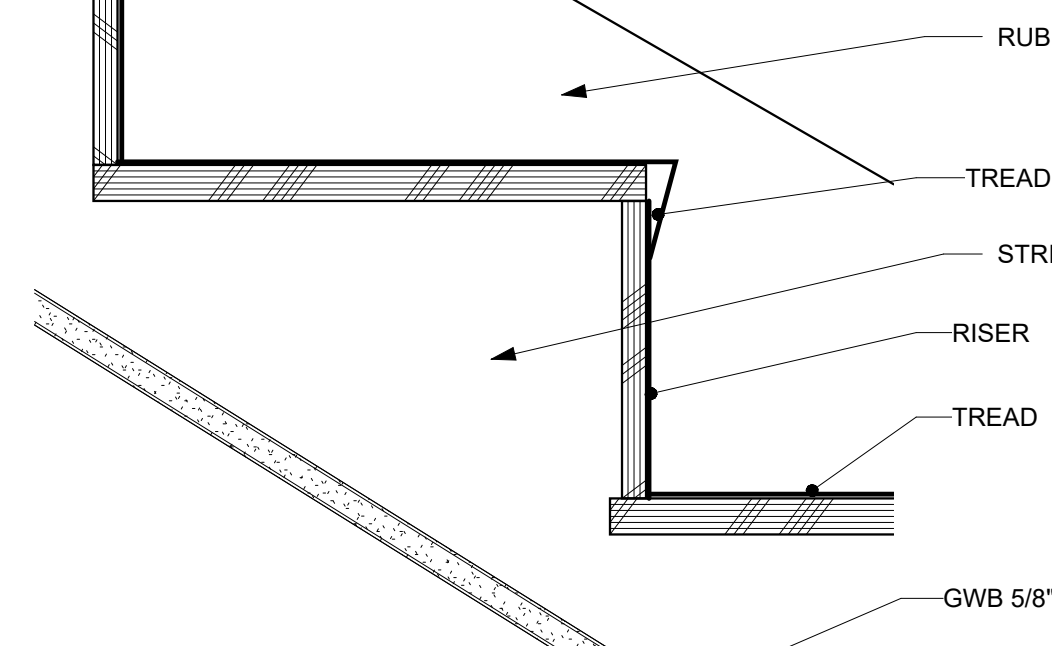
6 EQUIPMENT MOUNTING  
1/2' = 1'-0"



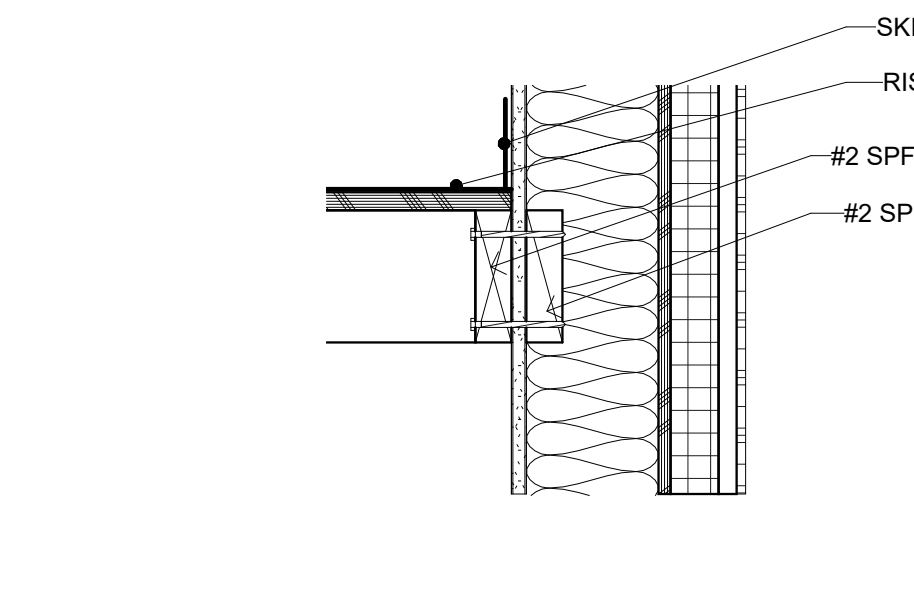
5 HANDRAIL EXTENTS  
3/4' = 1'-0"



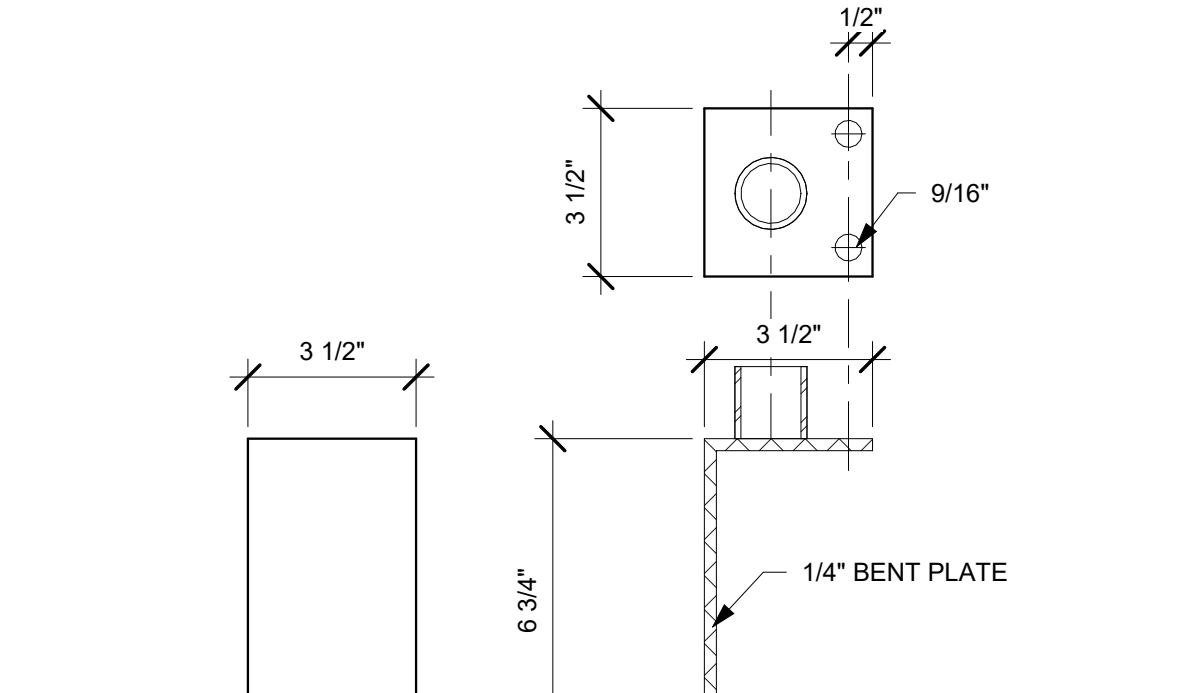
9 EXTERIOR HANDRAIL BLOCKING  
3' = 1'-0"



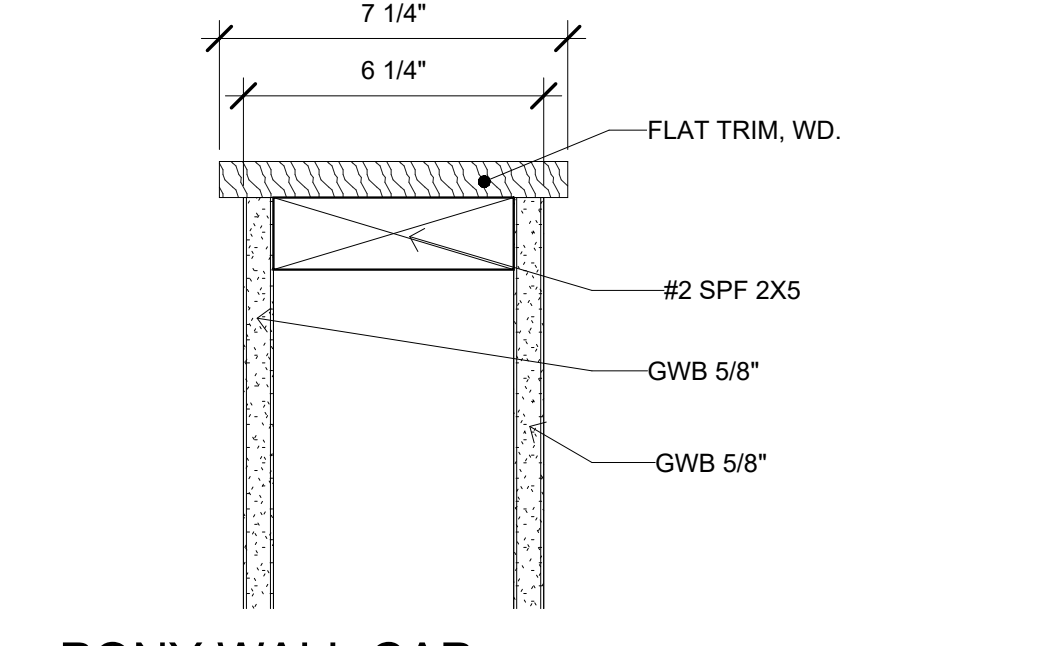
11 INTERIOR TREAD  
A-650 3' = 1'-0"



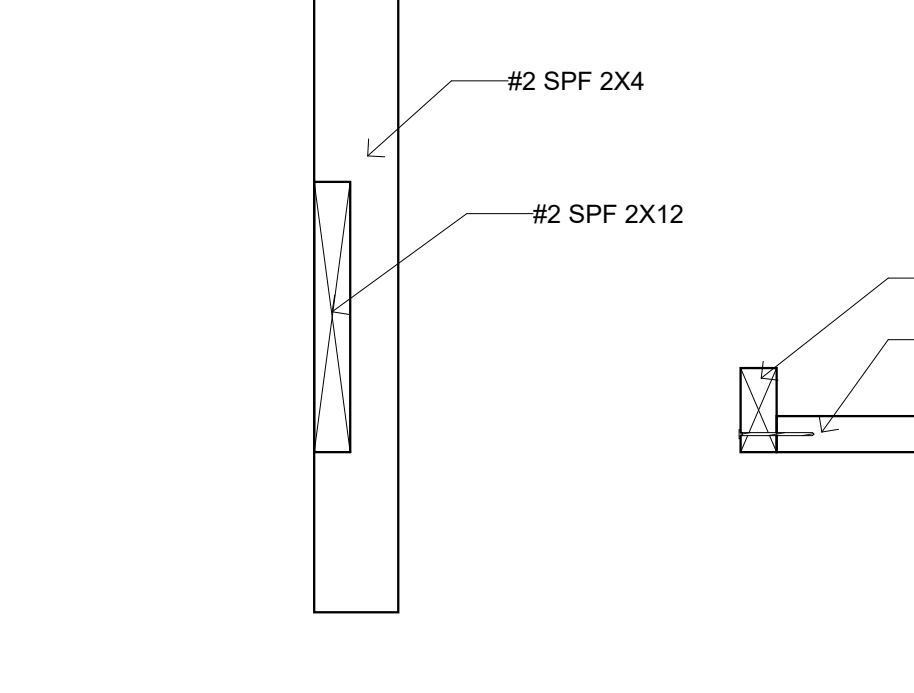
10 LANDING AT WALL  
A-650 1 1/2' = 1'-0"



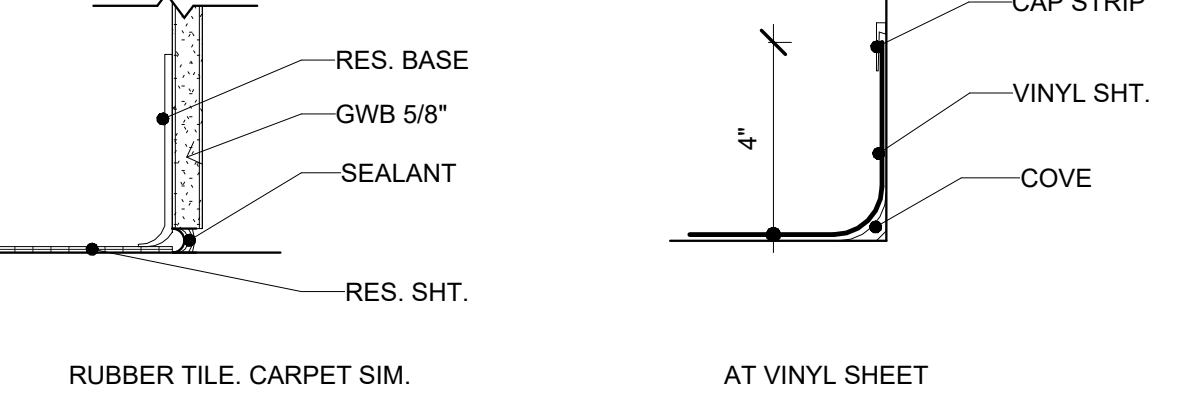
12 RAILING BASE PLATE  
3' = 1'-0"



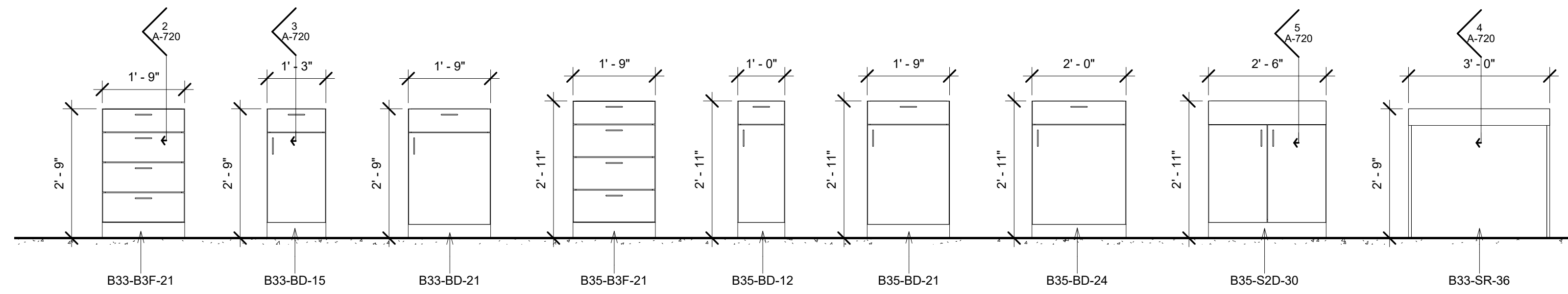
15 PONY WALL CAP  
A-650 3' = 1'-0"



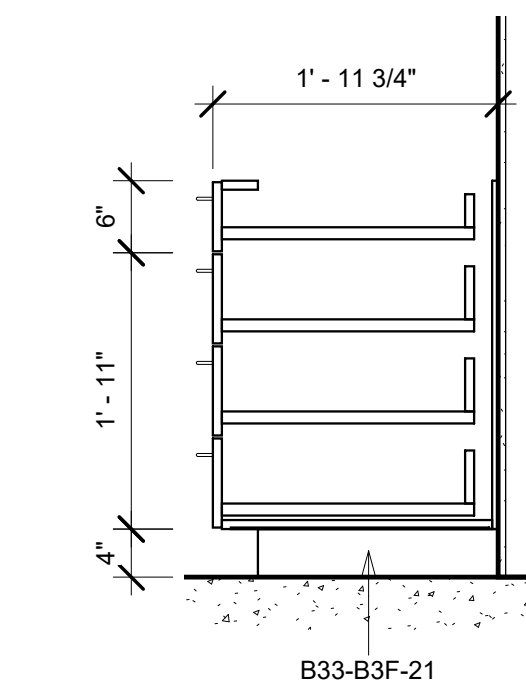
14 ARM BLOCKING AT WOOD STUDS  
1 1/2' = 1'-0"



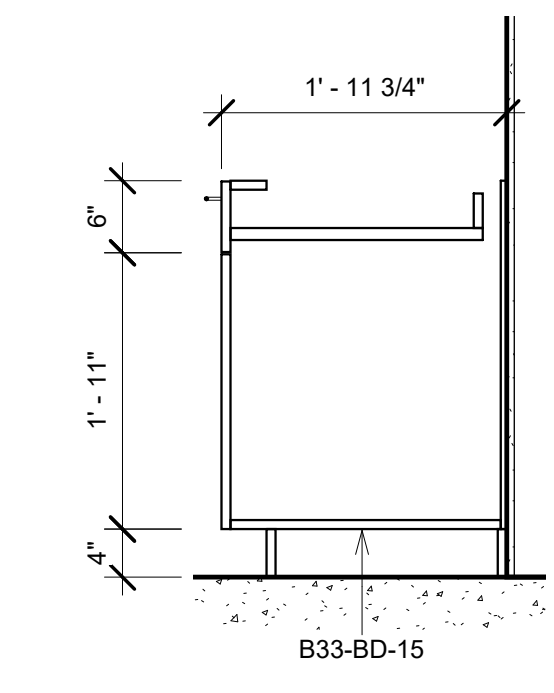
13 COVE AND BASE  
3' = 1'-0"



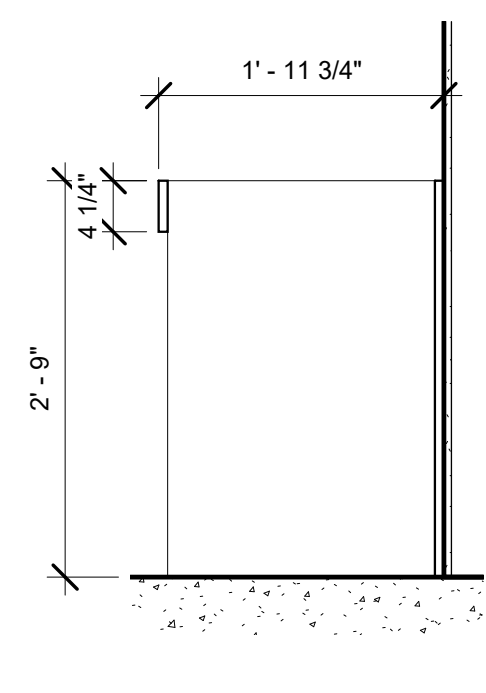
1 LOWER CABINETS  
1/2" = 1'-0"



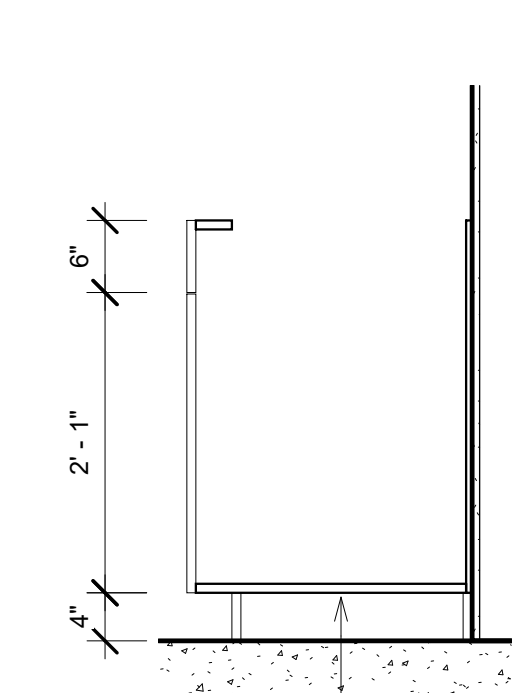
2 BOX 3 FILE  
A-720 3/4" = 1'-0"



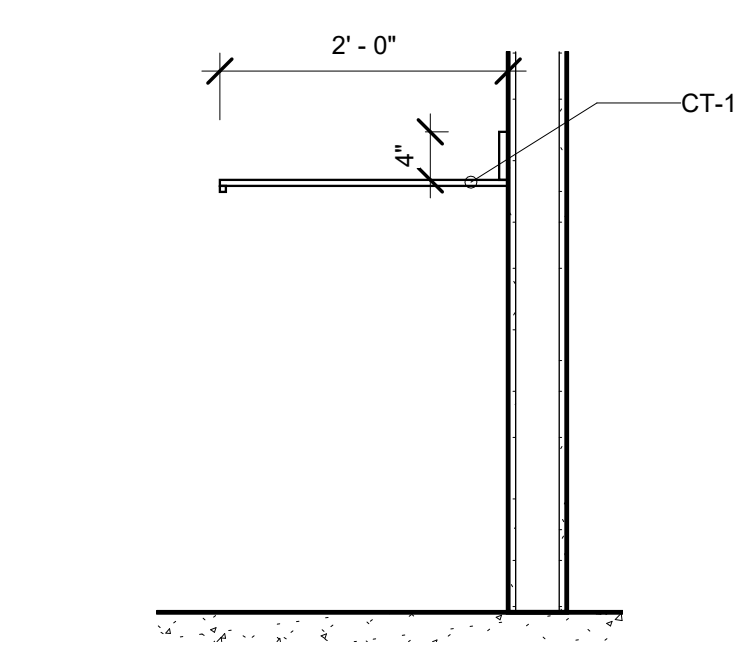
3 BOX DOOR  
A-720 3/4" = 1'-0"



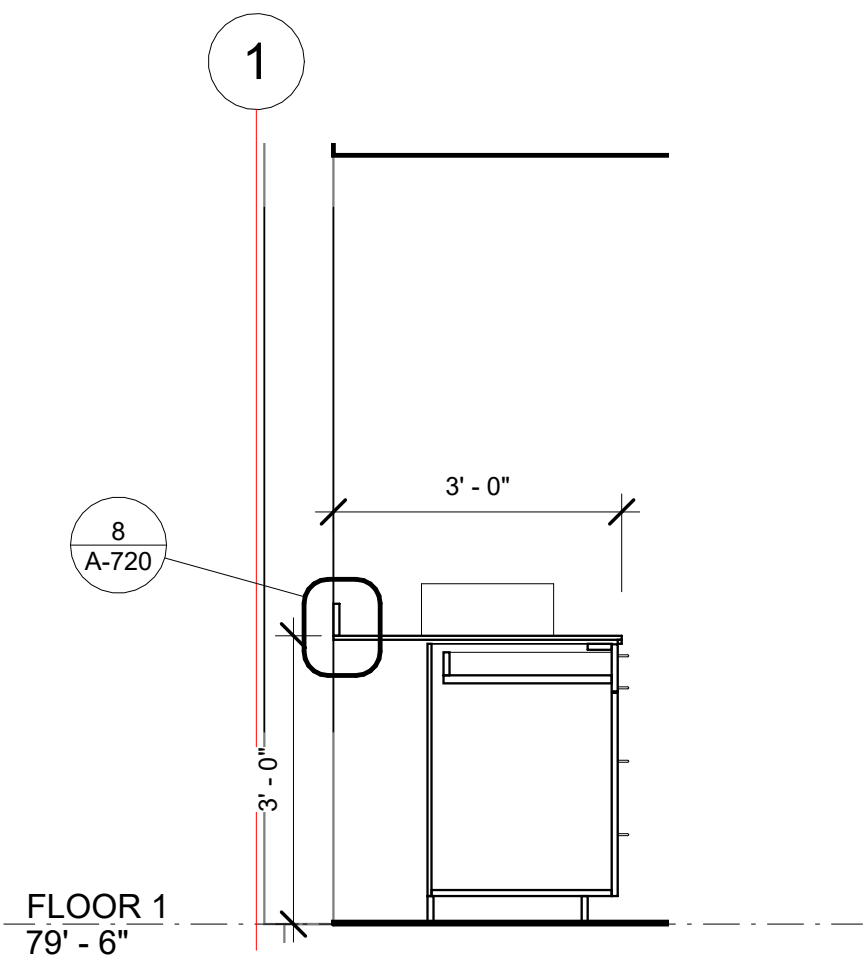
4 SKIRT ROLL-IN  
A-720 3/4" = 1'-0"



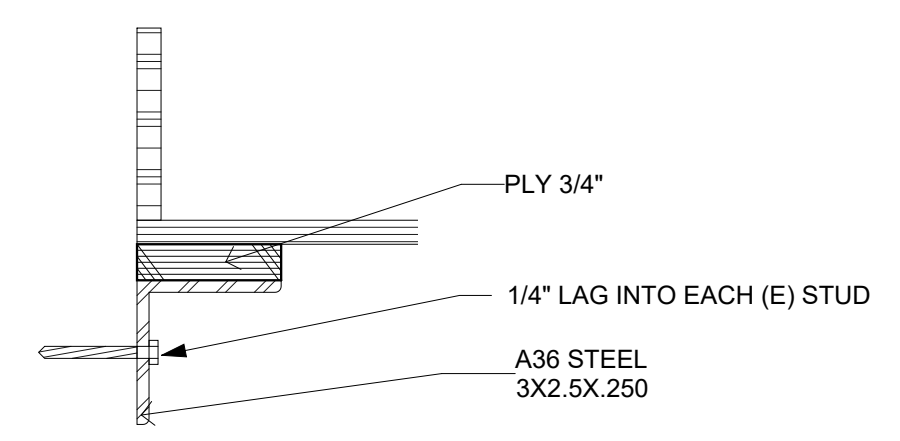
5 SKIRT TWO DOOR  
A-720 3/4" = 1'-0"



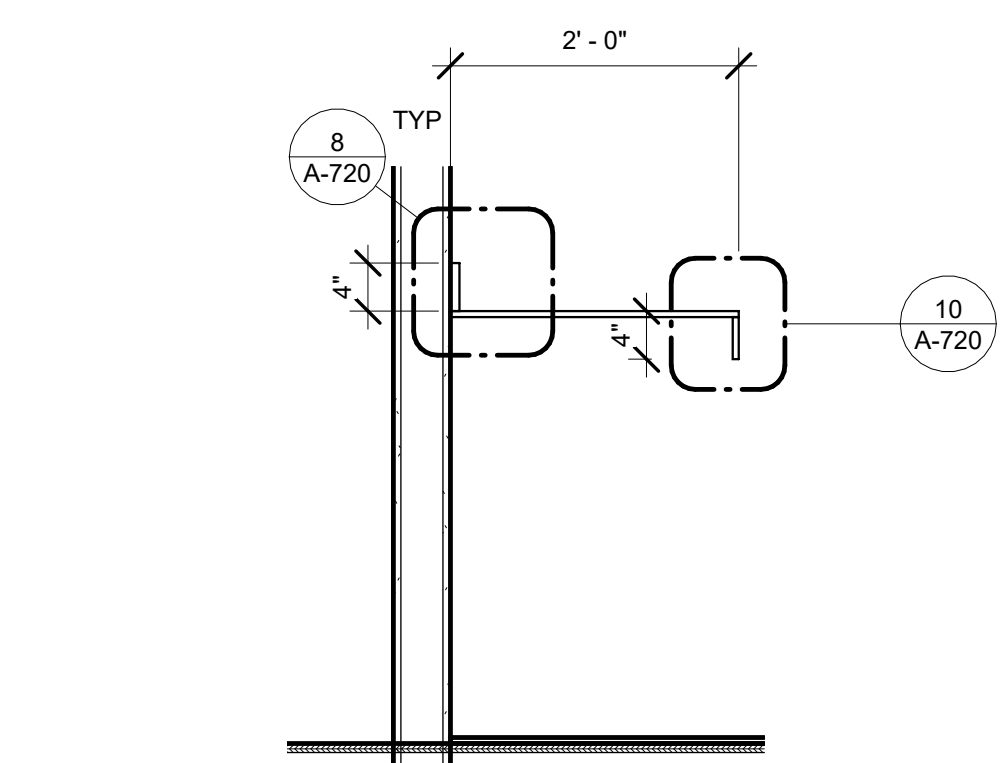
6 TYPICAL WORKTOPS  
3/4" = 1'-0"



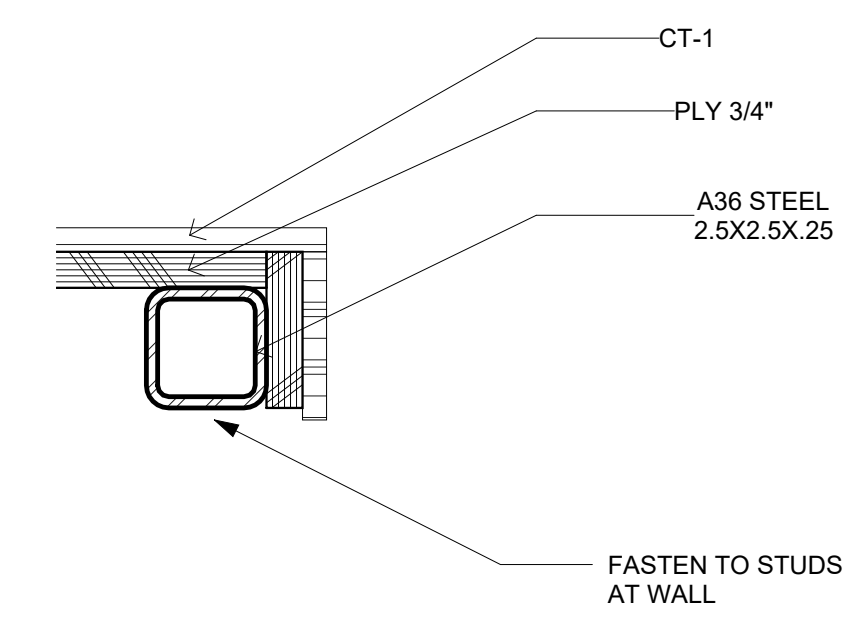
7 WORKTOP AT STERILIZATION  
A-250 1/2" = 1'-0"



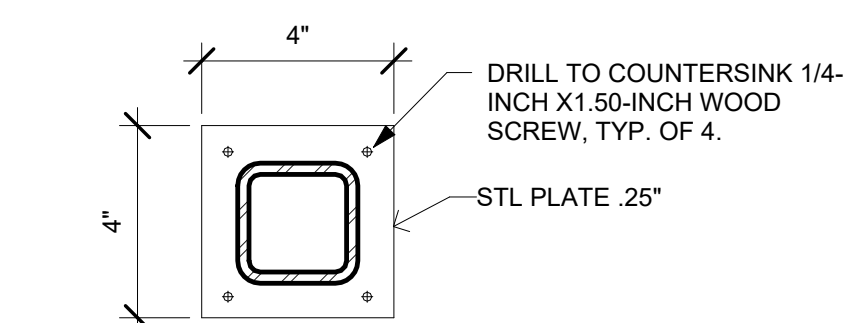
8 REAR WORKTOP SUPPORT  
A-720 3" = 1'-0"



9 WORKTOP WT-2  
A-250 3/4" = 1'-0"



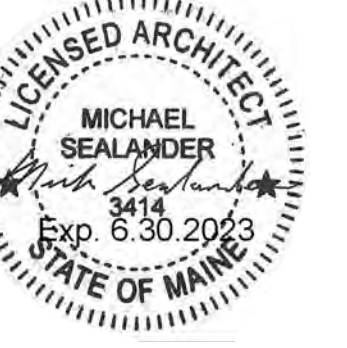
10 FRONT WORKTOP SUPPORT  
A-720 3" = 1'-0"



11 COUNTER SUPPORT END PLATE  
3" = 1'-0"

E2010 CASEWORK					
ASSEMBLY CODE	TYPE MARK	DEPTH	HEIGHT	WIDTH	COUNT
E2010220	B33-B3F-21	1' - 11"	2' - 9"	1' - 9"	1
E2010200	B33-BD-12	1' - 11"	2' - 9"	1' - 0"	1
E2010200	B33-BD-15	1' - 11"	2' - 9"	1' - 3"	1
E2010200	B33-BD-21	1' - 11"	2' - 9"	1' - 9"	1
E2010220	B33-S2D-30	1' - 11"	2' - 9"	2' - 6"	1
E2010220	B35-B3F-21	1' - 11"	2' - 11"	3' - 6"	2
E2010200	B35-BD-12	1' - 11"	2' - 11"	6' - 0"	6
E2010200	B35-BD-21	1' - 11"	2' - 11"	3' - 6"	2
E2010200	B35-BD-24	1' - 11"	2' - 11"	8' - 0"	4
E2010220	B35-S2D-30	1' - 11"	2' - 11"	12' - 6"	5
E2010220	B35-SLR-36	1' - 10"	2' - 11"	6' - 0"	2
E2010210	U30-F-18	11 1/4"	2' - 6"	3' - 0"	2
E2010210	U30-F-24	1' - 0"	2' - 6"	2' - 0"	1
E2010230	WT-1	<varies>	<varies>	82' - 11 5/8"	10
E2010230	WT-2	2' - 0"	3' - 0"	6' - 6 5/8"	1
Grand total: 40				142' - 3 1/4"	

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79 Main Street, Suite C  
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207.266.5822



ARCHITECT PROJECT # 662

HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION

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CASEWORK

A-720

C1020 INTERIOR DOORS												
MARK	TO ROOM	FRAME ELEVATION (Family)	THICKNESS	FUNCTION	PANEL TYPE (Type)	HARDWARE	FRAME	DOOR	PANEL PAINT (Finish)	FRAME PAINT (Frame Material)	RATING	COMMENTS
002	002	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO	2	08 Steel	08 Wood			NR	
003	003	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	2	08 Steel	08 Wood			NR	FORMER E05
004	004	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	1	08 Steel	08 Wood			NR	FORMER E03
005	005	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	1	08 Steel	08 Wood			NR	FORMER E08
006	006	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	2	08 Steel	08 Wood			NR	FORMER E205
007	007	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	2	08 Steel	08 Wood			NR	FORMER E209
008	008	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	6	08 Steel	08 Wood			NR	FORMER E04
009	009	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	2	08 Steel	08 Wood			NR	FORMER E203
010	010	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	2	08 Steel	08 Wood			NR	FORMER E24
011	011	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO	8	08 Steel	08 Wood			NR	
012	012	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	1	08 Steel	08 Wood			NR	FORMER E11
013	013	Drywall Single 0	1 3/4"	Interior	Interior 2870 WFO	8	08 Steel	08 Wood			NR	
020	020	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	7	08 Steel	08 Wood			NR	FORMER E29
021	021	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO-60	5	08 Steel	08 Wood			60	
022	027	Drywall Double 0	1 3/4"	Interior	Interior 5070 WFO 60	3	08 Steel	08 Wood			60	
023	023	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	1	08 Steel	08 Wood			NR	FORMER E06
026	020	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO	6	08 Steel	08 Wood			NR	
110	111	Drywall Single 0	1 3/4"	Interior	Interior 3670 WFO	6	08 Steel	08 Wood			NR	
111	111	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO	7	08 Steel	08 Wood			NR	
112	112	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO	1	08 Steel	08 Wood			NR	FORMER E27
113		Drywall Single 0	1 3/4"	Interior	Interior 3670 WFO	6	08 Steel	08 Wood			NR	
121	121	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO	2	08 Steel	08 Wood			NR	
122	122	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO-60	5	08 Steel	08 Wood			60	

Interior: 23

B2030 EXTERIOR DOORS										
MARK	FRAME ELEVATION (Family)	FUNCTION	PANEL TYPE (Type)	HARDWARE	Frame Material	Door Material	Glass Mat	PANEL PAINT (Finish)	FRAME PAINT (Frame Material)	RATING
021A	Drywall Single 0	Exterior	Existing Interior 3070 HF1	4	08 Hollow Metal	08 Hollow Metal	08 Glass	GRAY TO MATCH (E)	WHITE TO MATCH (E)	NR

021A: 1

Grand total: 1

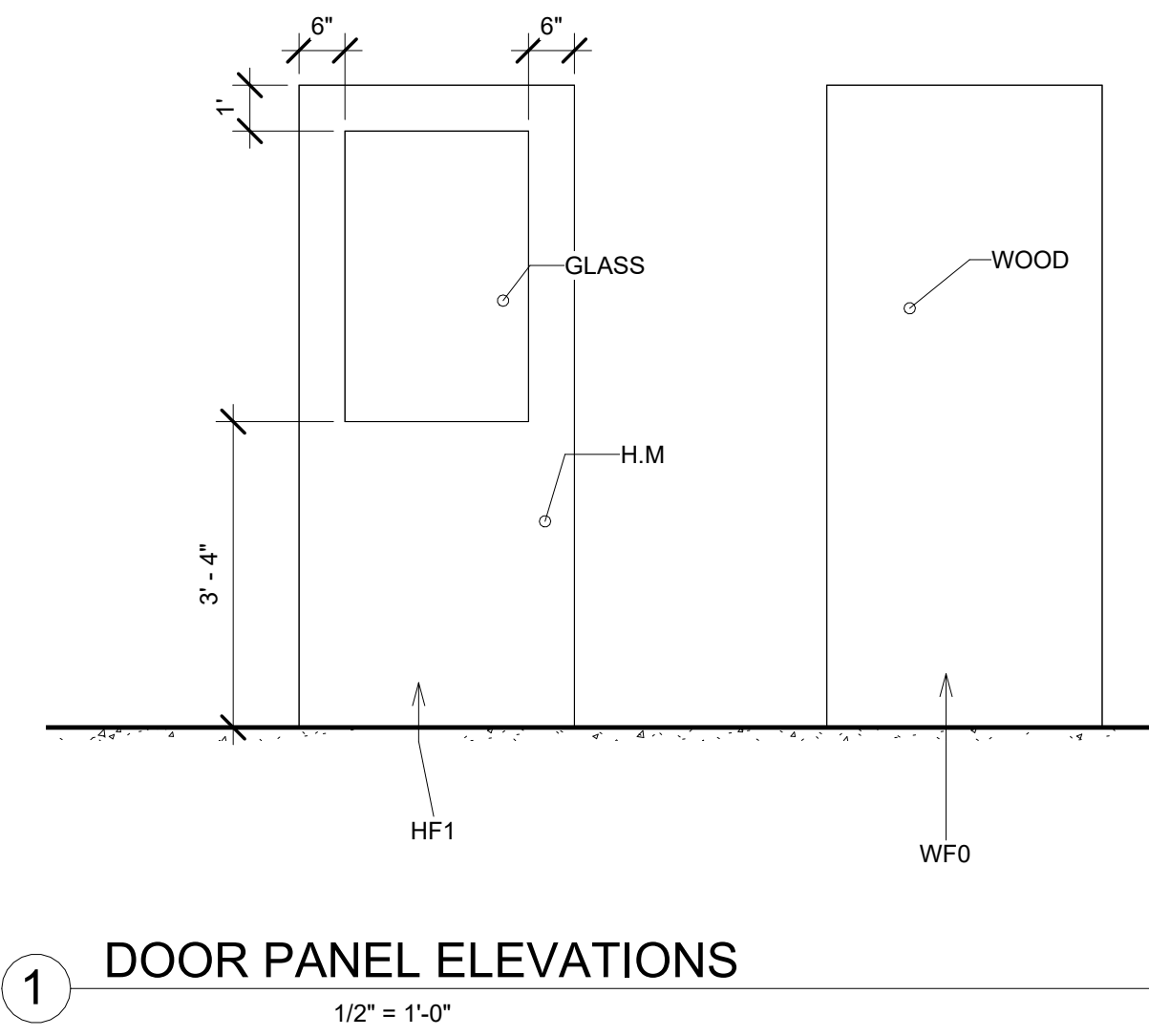
C1020 DOORS BY HARDWARE GROUP							
HARDWARE	MARK	FRAME ELEVATION (Family)	THICKNESS	FUNCTION	PANEL TYPE (Type)	RATING	COMMENTS
1	005	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	NR	FORMER E08
1	012	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	NR	FORMER E11
1	023	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	NR	FORMER E06
1	112	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO	NR	FORMER E27
1: 4							
2	002	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO	NR	
2	003	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	NR	FORMER E05
2	004	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	NR	FORMER E03
2	006	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	NR	FORMER E205
2	007	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	NR	FORMER E209
2	009	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	NR	FORMER E203
2	010	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	NR	FORMER E24
2	121	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO	NR	
2: 8							
3	022	Drywall Double 0	1 3/4"	Interior	Interior 5070 WFO 60	60	
3: 1							
4	021A	Drywall Single 0	1 3/4"	Exterior	Existing Interior 3070 HF1	NR	
4: 1							
5	021	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO-60	60	
5	122	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO-60	60	
5: 2							
6	008	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	NR	FORMER E04
6	026	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO	NR	
6	110	Drywall Single 0	1 3/4"	Interior	Interior 3670 WFO	NR	
6	113	Drywall Single 0	1 3/4"	Interior	Interior 3670 WFO	NR	
6: 4							
7	020	Drywall Single 0	1 3/4"	Interior	Interior 3070 (P)	NR	FORMER E29
7	111	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO	NR	
7: 2							
8	011	Drywall Single 0	1 3/4"	Interior	Interior 3070 WFO	NR	
8	013	Drywall Single 0	1 3/4"	Interior	Interior 2870 WFO	NR	
8: 2							

C1020 PROTECTED DOORS							
MARK	TO ROOM	FRAME ELEVATION (Family)	THICKNESS	FUNCTION	PANEL TYPE (Type)	RATING	COMMENTS
E03	137	Drywall Single 0	1 3/4"	Interior	Existing Interior 3068 WFO	NR	NEW 004
E04	137	Drywall Single 0	1 3/4"	Interior	Existing Interior 3068 WFO	NR	NEW 008
E05	139	Drywall Single 0	1 3/4"	Interior	Existing Interior 3068 WFO	NR	NEW 003
E06	141	Drywall Single 0	1 3/4"	Interior	Existing Interior 3068 WFO	NR	NEW 020
E11	114	Drywall Single 0	1 3/4"	Interior	Existing Interior 3068 WFO	NR	NEW 012
E24	109B	Drywall Single 0	1 3/4"	Interior	Existing Interior 3068 WFO	NR	NEW 010
E25	109B	Drywall Double 0	1 3/4"	Interior	Existing Interior 5070 HF0	NR	NEW 022
E27	179	Drywall Single 0	1 3/4"	Interior	Existing Interior 3068 WFO	NR	NEW 112
E29	106	Drywall Single 0	1 3/4"	Interior	Existing Interior 3068 WFO	NR	NEW 023
E203	005	Drywall Single 0	1 3/4"	Interior	Existing Interior 3068 WFO	NR	NEW 009
E205	008	Drywall Single 0	1 3/4"	Interior	Existing Interior 3068 WFO	NR	NEW 006
E209	004	Drywall Single 0	1 3/4"	Interior	Existing Interior 3068 WFO	NR	NEW 007

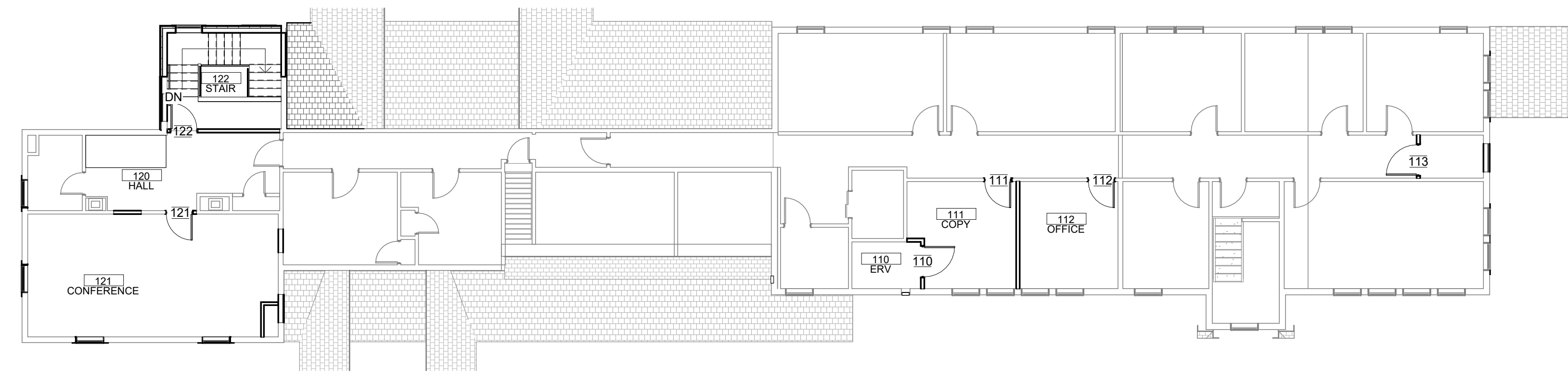
Interior: 12

REINSTALL FRAMES AT REINSTALLED DOORS WHERE THROAT SIZE ALLOWS.  
PROVIDE NEW HARDWARE ON EXISTING DOORS E19 AND E 26, REMAINING IN PLACE.

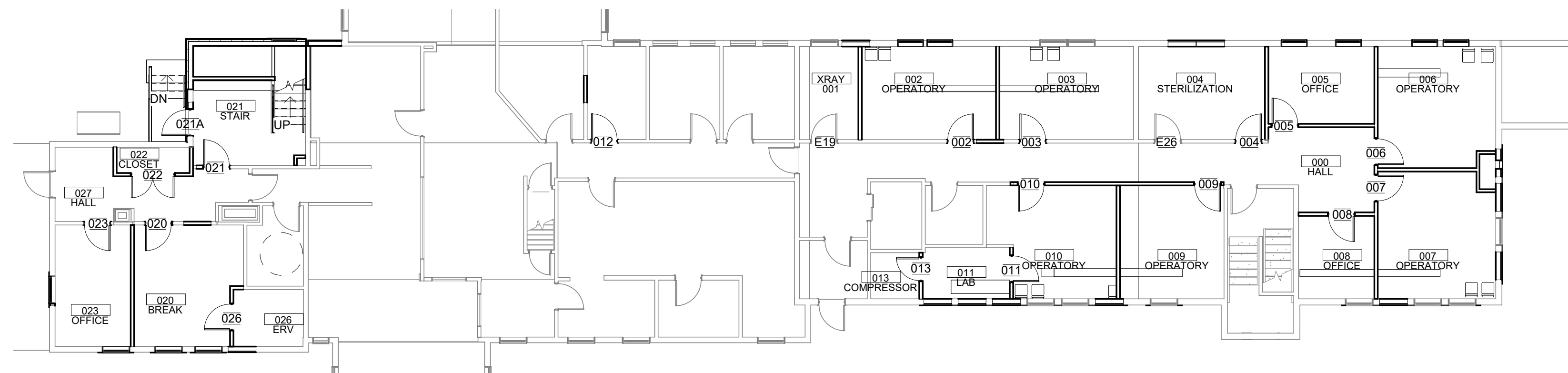
**DOOR NOTES**  
1/2" = 1'-0"



**1 DOOR PANEL ELEVATIONS**  
1/2" = 1'-0"



**3 FLOOR 2 DOORS**  
A-500 3/32" = 1'-0"



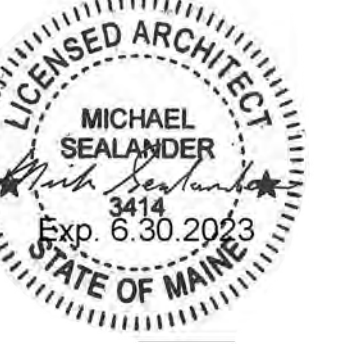
**2 FLOOR 1 DOORS**  
A-500 3/32" = 1'-0"

THIS IS A 24 X 36 SHEET.

\\Allspark\Public\Current\662 Harrington Health Center\Building\2022 December 19.rvt



ARCHITECT PROJECT # 662



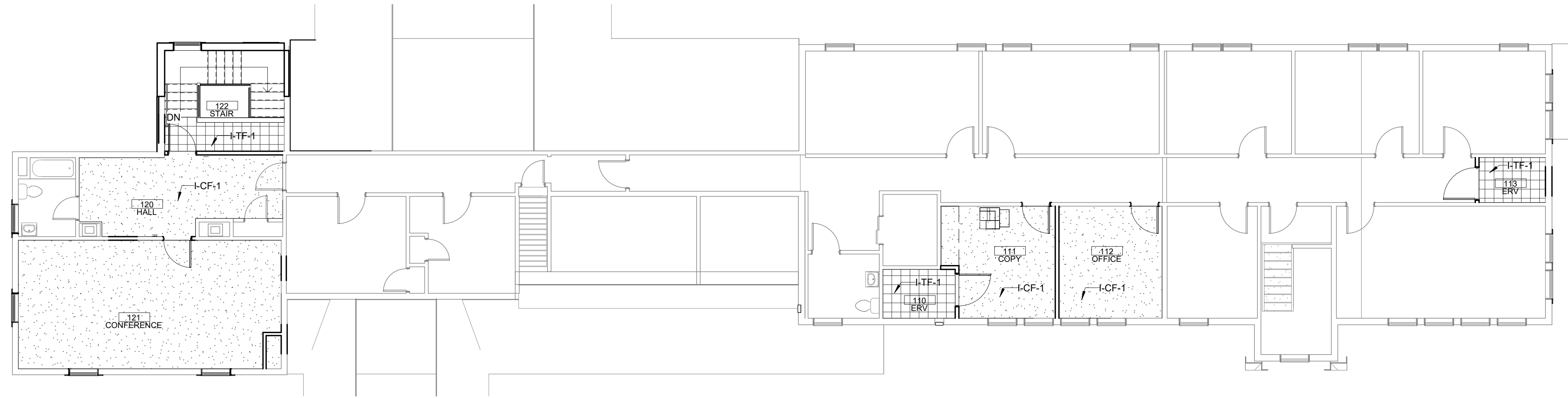
**FINISHES NOTES**

12" = 1'-0"

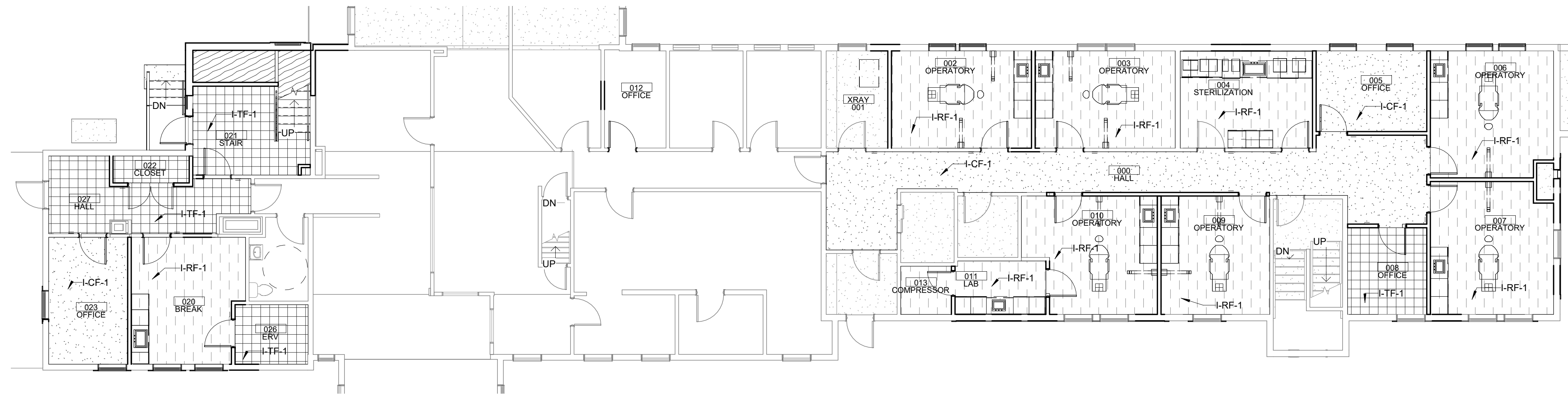
PROVIDE RB-1 BASE AT NEW CARPET AND RESILIENT TILE, TYP.

PROVIDE INTEGRAL COVE AT I-RF-1 SHEET VINYL.

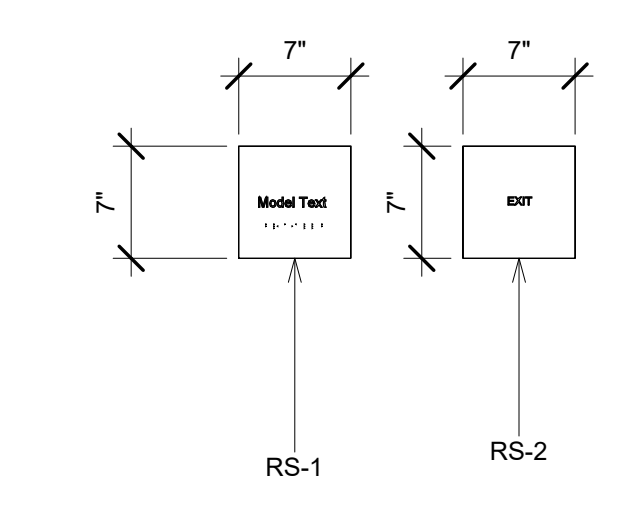
C3020 FLOOR FINISHES		
TYPE MARK	AREA	DESCRIPTION
I-CF-1	<varies>	4" SLAB CARPET
I-CN4	11 SF	4" SLAB
I-DL8	<varies>	2X10 AT 16
I-RF-1	<varies>	SHEET
I-TF-1	<varies>	RUBBER TILE
X-CN4	12 SF	4" SLAB
X-TL6	22 SF	LANDING



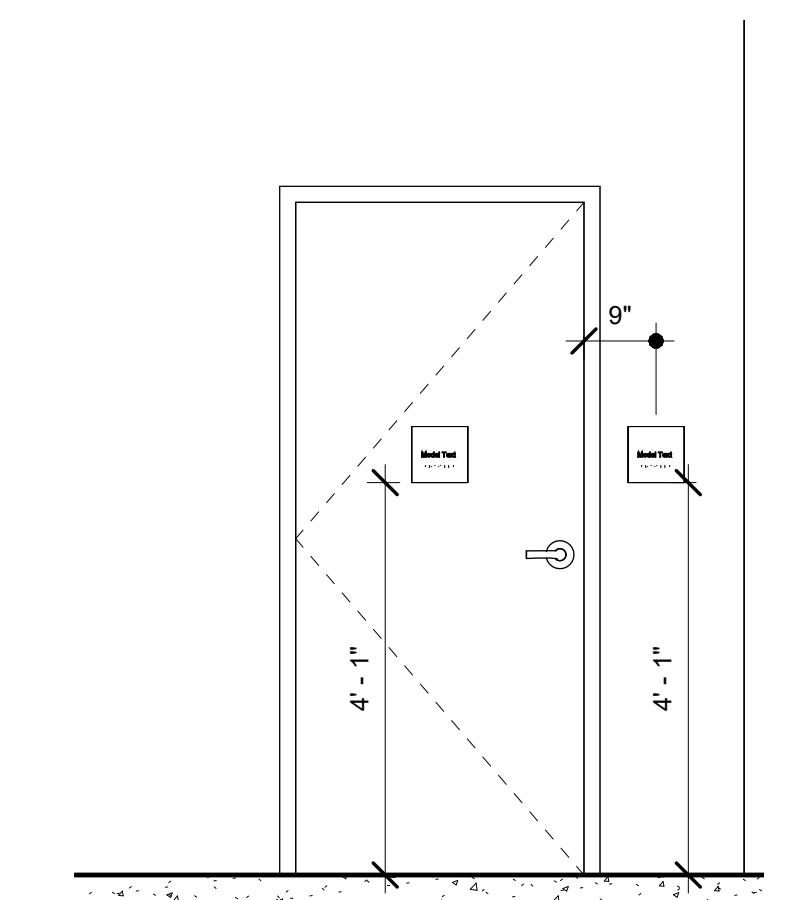
**2 FLOOR 2 FINISHES**  
 A-500 1/8" = 1'-0"



**1 FLOOR 1 FINISHES**  
 A-500 1/8" = 1'-0"

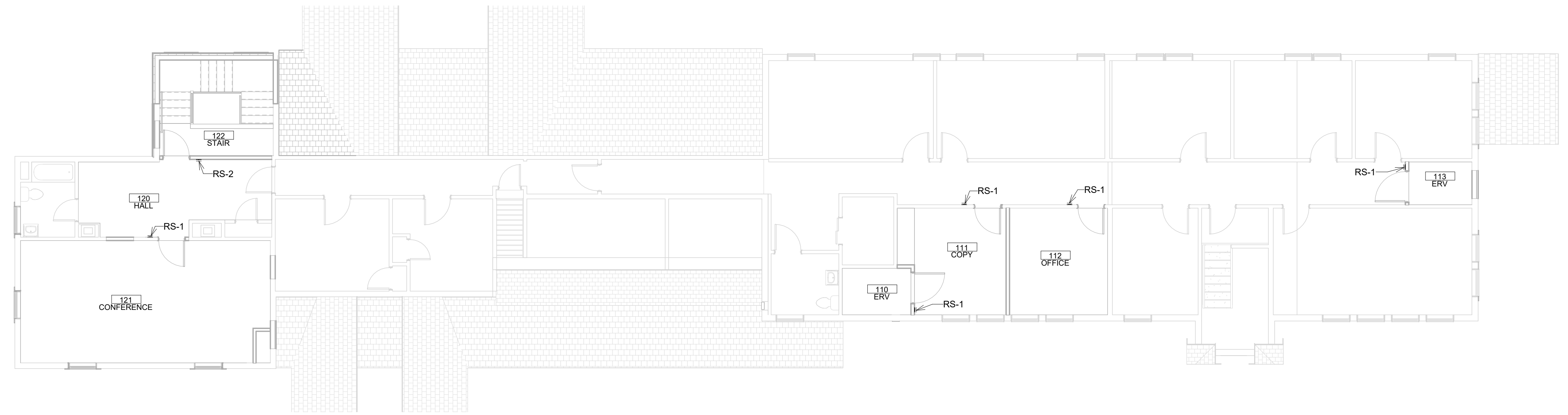
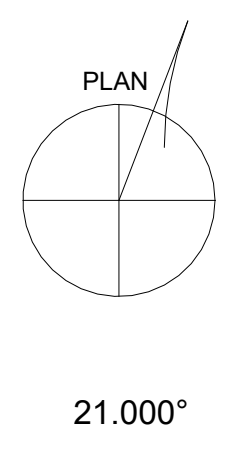


2 SIGN TYPES  
1" = 1'-0"

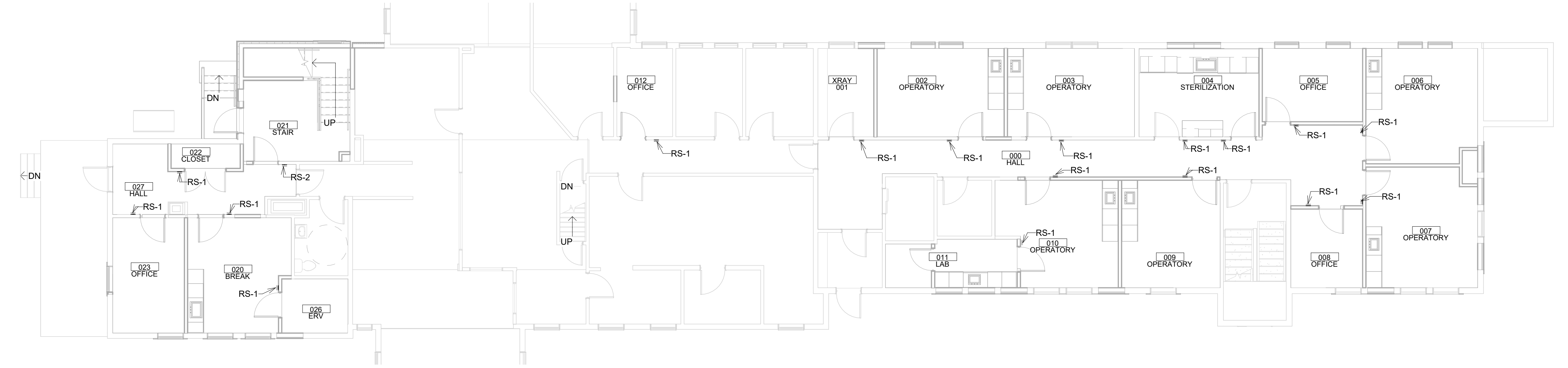


4 ROOM SIGNAGE MOUNTING  
1/2" = 1'-0"

C1030 SIGNAGE			
ASSEMBLY CODE	TYPE MARK	FOR ROOM #	SIGN TEXT
C1030510	RS-1	023	18
C1030510	RS-1	020	17
C1030510	RS-1	022	STORAGE
C1030510	RS-1	026	ERV
C1030510	RS-1	011	7
C1030510	RS-1	010	OP5
C1030510	RS-1	001	6
C1030510	RS-1	002	OP6
C1030510	RS-1	003	OP4
C1030510	RS-1	009	OP3
C1030510	RS-1	004	4
C1030510	RS-1	004	EXIT ONLY
C1030510	RS-1	005	2
C1030510	RS-1	008	5
C1030510	RS-1	007	OP1
C1030510	RS-1	006	OP2
C1030510	RS-1	121	114
C1030510	RS-1	110	ERV
C1030510	RS-1	111	107
C1030510	RS-1	112	105
C1030510	RS-1	113	ERV
C1030510	RS-1	012	11
C1030510	RS-2	021	EXIT
C1030510	RS-2	122	EXIT



3 FLOOR 2 SIGNAGE  
A-500 1/8" = 1'-0"



1 FLOOR 1 SIGNAGE  
A-500 1/8" = 1'-0"

HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION

sealander architects  
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SIGNAGE

A-920

SHEET LIST - PLUMBING

P-001	PLUMBING NOTES, SYMBOLS & ABBREVIATIONS
P-101	PLUMBING DEMO PLANS - NORTH
P-102	FIRST FLOOR PLUMBING DEMO PLAN - SOUTH
P-201	BASEMENT & FIRST FLOOR DWV PLANS - NORTH
P-202	UNDERSLAB & FIRST FLOOR DWV PLANS - SOUTH
P-301	DOMESTIC PLUMBING PLANS - NORTH
P-302	DOMESTIC PLUMBING PLAN - SOUTH
P-401	PLUMBING SECTIONS
P-501	PLUMBING DETAILS & SCHEDULE

PIPING SYSTEMS

IDENTIFIER	DESCRIPTION
CD	CONDENSATE DRAIN
CW	NEW DOMESTIC COLD WATER
HW	NEW DOMESTIC HOT WATER
DHWR	NEW DOMESTIC HOT WATER RETURN
S	NEW SANITARY PIPING (ABOVE SLAB)
V	NEW SANITARY VENT PIPING (ABOVE SLAB)
DA	DENTAL AIR
DV	DENTAL VACUUM

DEMOLITION LEGEND

---	EXISTING/EXISTING TO REMAIN (GRAYSCALE)
---	EXISTING TO BE REMOVED
---	PROPOSED EQUIPMENT
(E)	EXISTING TO REMAIN
(D)	EXISTING TO BE REMOVED
(RL)	EXISTING TO BE RELOCATED

ABBREVIATIONS

AD	ACCESS DOOR	IWFD	INDIRECT WASTE FUNNEL DRAIN
AD	AREA DRAIN	LAV	LAVATORY
AFF	ABOVE FINISHED FLOOR	JS	JANITOR'S SINK
ATC	AUTOMATIC TEMPERATURE CONTROL	MAU	MAKEUP AIR UNIT
AV	AIR VENT	MAX.	MAXIMUM
BFP	BACK FLOW PREVENTER	MBH	1000 BTU/HR
BOP	BOTTOM OF PIPE	MC	MECHANICAL CONTRACTOR
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	MIN.	MINIMUM
CFE	CAPPED FOR FUTURE	MPV	MULTI-PURPOSE VALVE
CFH	CUBIC FEET PER HOUR	MSB	MOP SERVICE SINK
CO	CLEAN OUT	MTD	MOUNTED
COAT	CONTINUATION	(N)	NEW
COORD	COORDINATION	NC	NORMALLY CLOSED
CSS	CLINIC SERVICE SINK	NO	NORMALLY OPEN
CTE	CONNECT TO EXISTING	NPW	NON-POTABLE WATER
CU	COPPER	NTS	NOT TO SCALE
DC	DOUBLE CONTAINED	OCFI	OWNER FURNISHED CONTRACTOR INSTALLED
DCO	DANDY CLEANOUT	PC	PLUMBING CONTRACTOR
DCV	DOUBLE CHECK VALVE	PP	POLYPROPYLENE
DDC	DIRECT DIGITAL CONTROL	PPE	PREPURCHASED EQUIPMENT
DF	DRINKING FOUNTAIN	PRS	PRESSURE REDUCING STATION
DFU	DRINKING FIXTURE UNIT	PRV	PRESSURE REDUCING VALVE
DIA	DIAMETER	(R)	EXISTING TO BE DISCONNECTED AND REMOVED
DIC	DOWN IN CHASE	RD	ROOF DRAIN
DIW	DOWN IN WALL	(RL)	EXISTING TO BE DISCONNECTED AND RELOCATED
DN	DOWN	(RP)	EXISTING TO BE REPLACED
DS	DOWNSPOUT	RPZ	REDUCE PRESSURE ZONE BFP
DT	DROP AND TRANSITION	RV	RELIEF VALVE
DWH	DOMESTIC WATER HEATER	SCV	SELF CONTAINED VALVE
(E)	EXISTING TO REMAIN	SD	STORM DRAIN
(ER)	EXISTING IN NEW LOCATION	SH	SHOWER
ETR	EXISTING TO REMAIN	SK	SINK
EWC	ELECTRIC WATER COOLER	SQ. FT.	CALCULATED SURFACE AREA OF ROOF, ADJACENT WALLS, ETC.
FBO	FURNISHED BY OWNER	SS	STAINLESS STEEL
FC	FIELD CONNECT	TE	TEMPERATURE ELEMENT
FCO	FLOOR CLEAN OUT	TMV	THERMOSTATIC MIXING VALVE
FD	FLOOR DRAIN	TOP	TOP OF PIPE
FFD	FUNNEL FLOOR DRAIN	TP	TRAP PRIMER
FG	FIBERGLASS	TYP.	TYPICAL
FRHB	FREEZE RESISTANT HOSE BIB	UIC	UP IN CHASE
FD	FLOOR DRAIN	UIW	UP IN WALL
FFD	FUNNEL FLOOR DRAIN	U.O.N.	UNLESS OTHERWISE NOTED
FG	FIBERGLASS	UR	URINAL
FRHB	FREEZE RESISTANT HOSE BIB	UV	UNIT VENTILATOR
FS	FLOW SWITCH	VB	VACUUM BREAKER
FU	FIXTURE UNIT	VCFE	VALVED AND CAPPED FOR FUTURE
G.C.	GENERAL CONTRACTOR	VFD	VARIABLE FREQUENCY DRIVE
GPM	GALLONS PER MINUTE	VIF	VERIFY IN FIELD
GVTR	GREASE VENT THROUGH ROOF	VTR	VENT THRU ROOF
HB	HOSE BIB	W/	WITH
HRU	HEAT RECOVERY UNIT	WC	WATER CLOSET
HTR	HEATER	WCO	WALL CLEAN OUT
HX	HEAT EXCHANGER	WFU	WATER FIXTURE UNITS
IAW	IN ACCORDANCE WITH	WH	WALL HYDRANT
IN WG	INCHES WATER GAUGE	W&T	WASTE AND TRAP
		ZVB	ZONE VALVE BOX

PIPING SYMBOLS

	UNION
	FLANGE
	PIPE ANCHOR
	PIPE GUIDE OR SLEEVES
	PIPE ELBOW TURNED DOWN
	PIPE ELBOW TURNED UP
	PIPE TEE DOWN
	PIPE TEE UP
	PIPE PITCHES DOWN
	GENERIC VALVE, SEE SPECIFICATIONS FOR TYPE
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE (MANUAL)
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	CALIBRATED BALANCING VALVE (CIRCUIT SETTER)
	AUTOMATIC FLOW CONTROL VALVE
	CHECK VALVE
	BACK FLOW PREVENTER
	GLOBE VALVE
	NEEDLE VALVE
	PLUG VALVE
	SOLENOID VALVE
	PRESSURE REDUCING OR REGULATING VALVE
	PRESSURE RELIEF VALVE
	STRAINER
	STRAINER WITH BLOWDOWN
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	PRESSURE SWITCH
	FLOW SWITCH
	PRESSURE GAUGE AND COCK
	THERMOMETER AND WELL
	TEMPERATURE & PRESSURE TAP (PETE'S PLUG)
	ORIFICE FLOWMETER
	FLEXIBLE PIPE CONNECTOR
	EXPANSION JOINT
	STEAM TRAP (FLOAT AND THERMOSTATIC INDICATED, T.T. THERMOSTAT, B.T. BUCKET TRAP, T.D. THERMODYNAMIC TRAP)
	CONCENTRIC REDUCER/INCREASER
	ECCENTRIC REDUCER/INCREASER
	VACUUM BREAKER
	PUMP

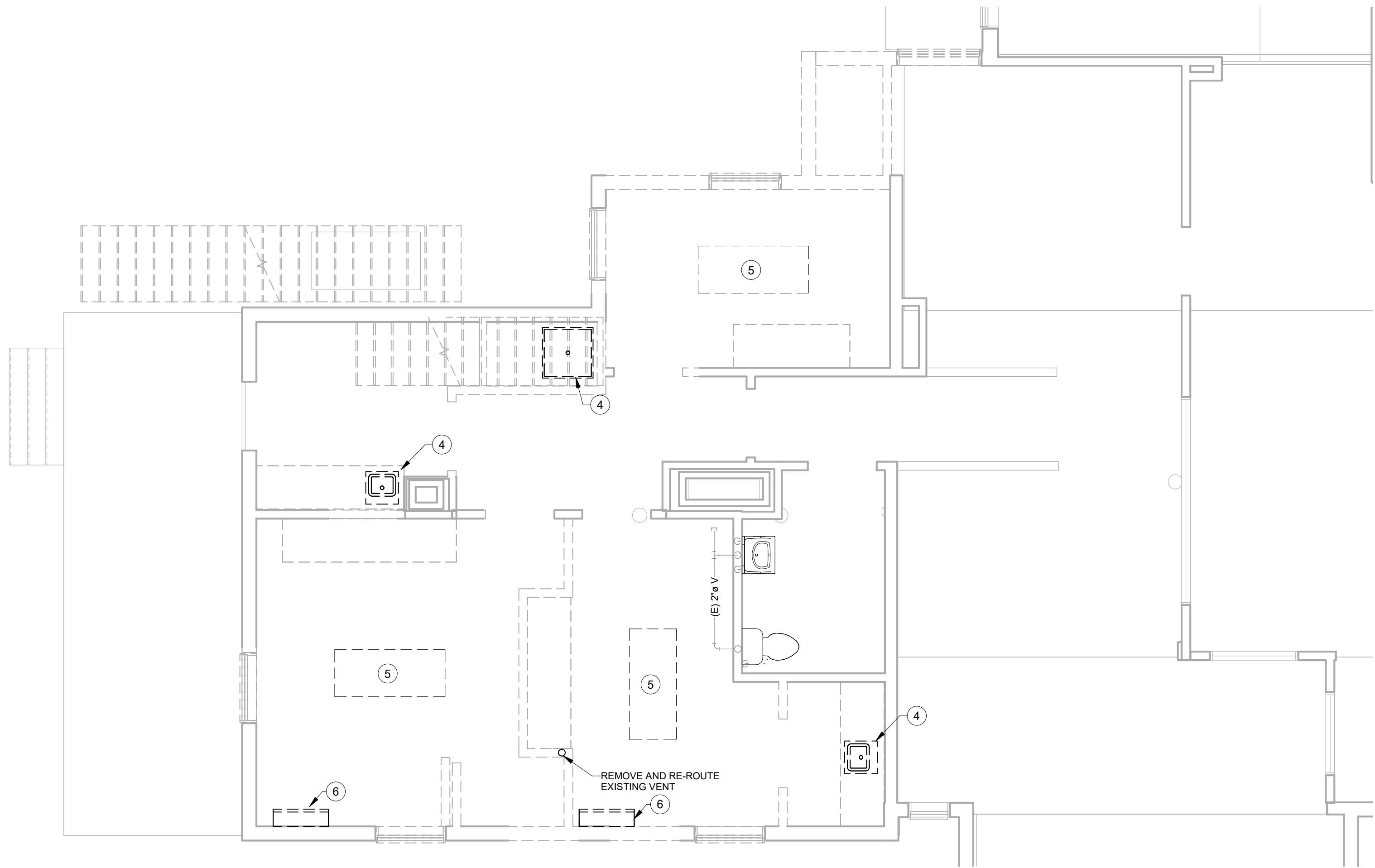
MISCELLANEOUS SYMBOLS

	DETAIL NUMBER
	SHEET NUMBER WHERE DETAIL IS LOCATED
	PLUMBING FIXTURE TAG
	CONNECT TO EXISTING
	LIMITS OF DEMOLITION

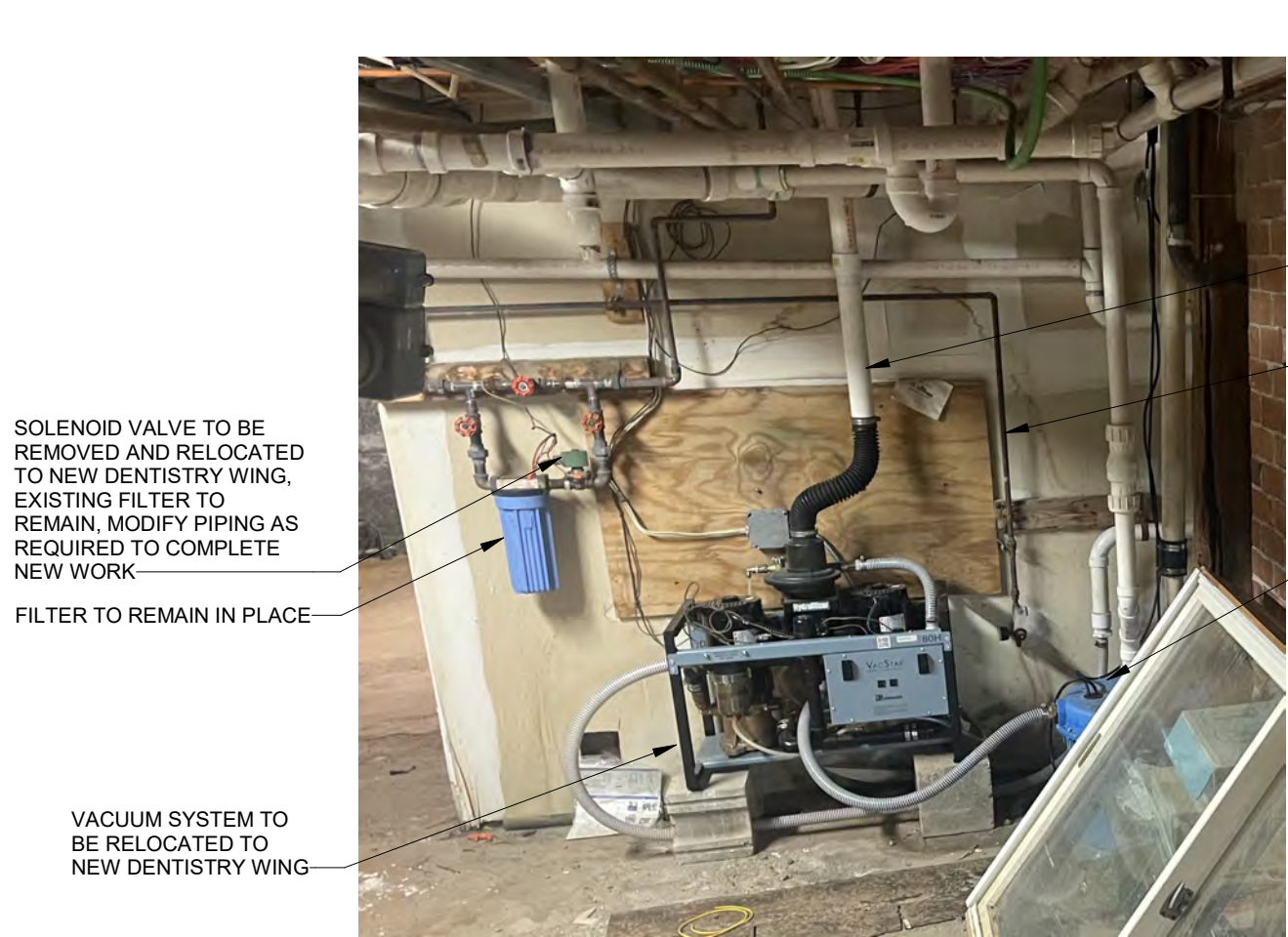
PLUMBING NOTES

- IT IS THE INTENT OF THE DRAWINGS TO SHOW A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH THE MAINE STATE PLUMBING CODE AND ANY LOCAL PLUMBING RULES. IF ANY DISCREPANCIES ARE NOTED, THEY SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE PLUMBING PLAN IS SCHEMATIC. PIPING SHOWN ON THE PLAN THAT IS NOT CONCEALED IN PARTITIONS IS SHOWN THAT WAY FOR CLARITY.
- ALL PIPING SHALL BE CONCEALED FROM THE VIEW OF THE OCCUPANTS IN OFFICE SPACES UNLESS APPROVED BY THE OWNER OR HIS REPRESENTATIVE.
- ALL PIPING SHALL BE INSTALLED TO ALLOW FOR EXPANSION. USE SWING JOINTS, OFFSETS, EXPANSION JOINTS, ETC.
- ALL HOT AND COLD WATER PIPING INSIDE THE BUILDING SHALL BE TYPE "L" COPPER.
- NO WATER PIPING SHALL BE RUN IN ANY AREA THAT COULD BE SUBJECT TO FREEZING. RUN ALL PIPING ON THE WARM SIDE OF BUILDING INSULATION.
- ALL PLUMBING FIXTURES SHALL HAVE SHUT-OFF VALVES ON HOT AND/OR COLD WATER SUPPLIES.
- THE DESIGN OF THE WATER SYSTEM IS BASED ON 60 PSI (STATIC) AT THE ENTRANCE.
- SLOPE ALL HORIZONTAL WASTE PIPING AT A MINIMUM SLOPE OF ONE QUARTER INCH PER FOOT TOWARD THE POINT OF DISPOSAL UNLESS OTHERWISE NOTED.
- INSTALL ALL HORIZONTAL VENT PIPING SO IT IS LEVEL OR SLOPES TOWARDS THE DRAINAGE PIPE THAT IT SERVES.
- VENT PIPING SHALL BE SCHEDULE 40 PVC DWV IN ACCORDANCE WITH ASTM D1665 STANDARDS.
- ALL SOLDERED JOINTS IN THE PLUMBING SYSTEM SHALL BE MADE WITH LEAD FREE SOLDER.
- ALL PLUMBING PIPING SHALL BE LEAK TESTED PER THE MAINE STATE PLUMBING CODE, IN THE PRESENCE OF THE LOCAL PLUMBING INSPECTOR. ALL LEAKS SHALL BE REPAIRED AND THE SYSTEM, OR THAT PORTION OF THE SYSTEM RE-TESTED.
- COORDINATE ALL PLUMBING INSTALLATION WITH ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, MECHANICAL, AND ELECTRICAL TRADES.

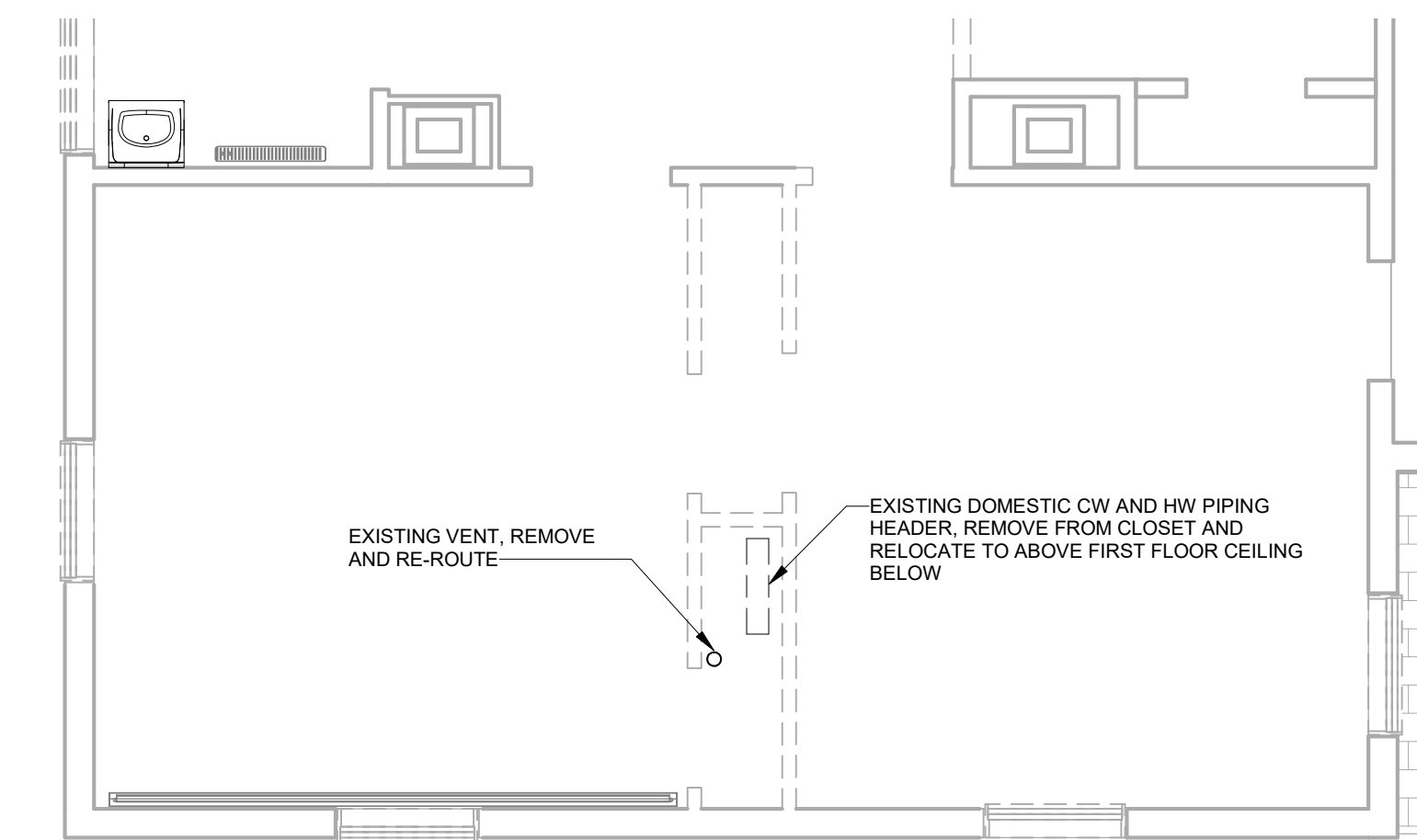
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DRAWING ISSUE STATUS					
<b>BID DOCUMENTS DECEMBER 19, 2022</b>					
		<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.789.4824			
PROJECT					
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>					
TITLE					
<b>PLUMBING NOTES, SYMBOLS &amp; ABBREVIATIONS</b>					
DATE		2022.08.15	SCALE		As indicated
DRAWN BY		MEB	DESIGNED BY		MEB
			CHECKED BY		JMM
PROJECT No.		11395.013			
DRAWING No.		<b>P-001</b>			REV



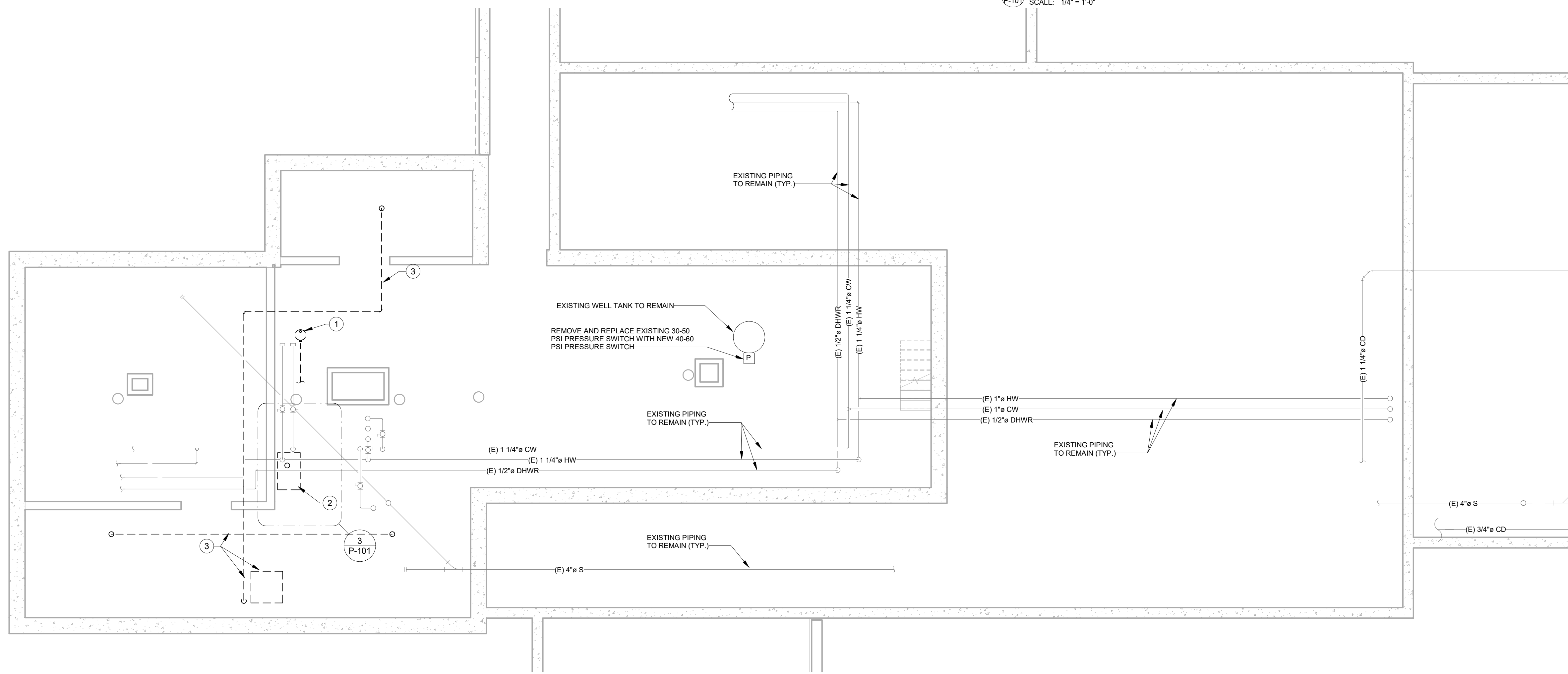
2  
P-101 SCALE: 1/4" = 1'-0"



3  
P-101 SCALE: 3/16" = 1'-0"



4  
P-101 SCALE: 1/4" = 1'-0"



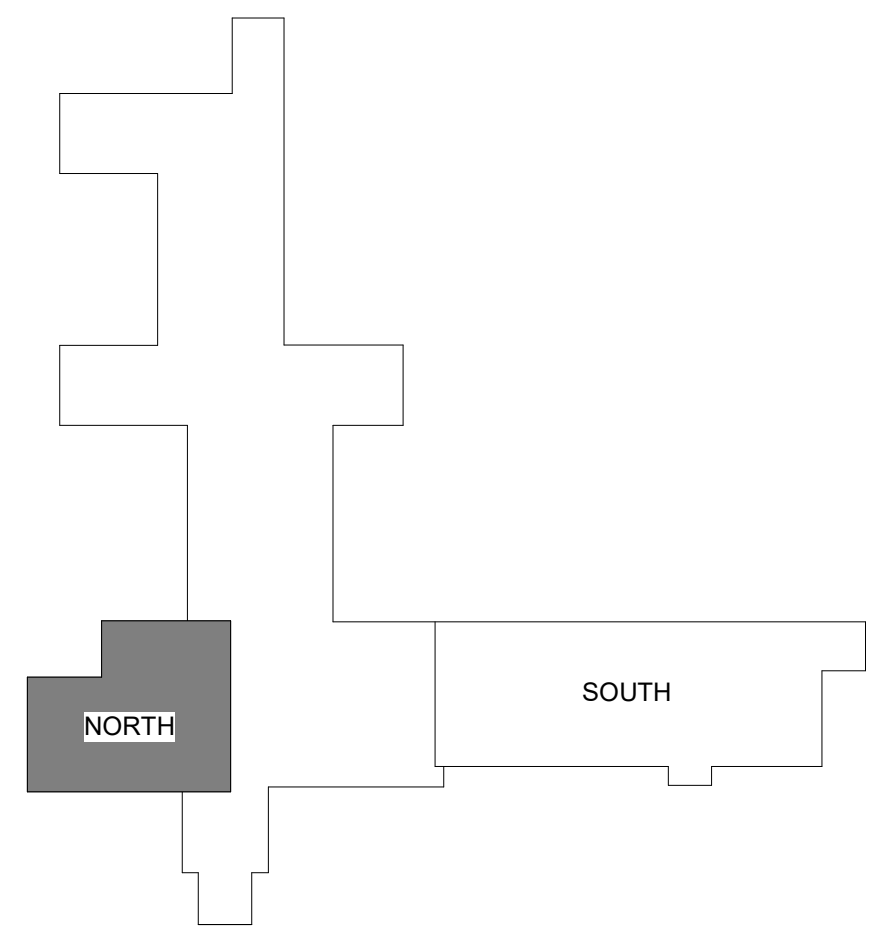
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P-101 SCALE: 1/4" = 1'-0"

**SHEET P-101 NUMBERED NOTES #**

- 1 DENTAL VACUUM SYSTEM FILTER TO BE REMOVED AND RELOCATED TO NEW DENTISTRY WING. REMOVE AND CAP EXISTING VACUUM LINES IN BASEMENT.
- 2 DENTAL VACUUM SYSTEM AND WATER FEED SOLINOID TO BE REMOVED AND RELOCATED TO NEW DENTISTRY WING. REMOVE ALL VACUUM AND EXHAUST LINES IN BASEMENT. CAP AT EXTERIOR WALL PENETRATION. EXISTING WATER FILTER TO REMAIN. MODIFY PIPING AS REQUIRED.
- 3 DISCONNECT AND REMOVE ALL EXISTING DENTAL AIR PIPING IN ITS ENTIRETY. RELOCATE EXISTING AIR COMPRESSOR TO NEW DENTAL LAB.
- 4 REMOVE SINK, DWV AND WATER PIPING IN THEIR ENTIRETY. REPLACE TEE AT WATER BRANCH TAKE-OFF WITH PIPE/COUPLINGS. MODIFY EXISTING PIPING AS REQUIRED.
- 5 REMOVE COMPRESSED AIR AND VACUUM PIPING IN THEIR ENTIRETY. REMOVE WATER PIPE BACK TO BRANCH TAKE-OFF AND REPLACE TEE WITH PIPE/COUPLINGS. MODIFY EXISTING PIPING AS REQUIRED TO COMPLETE NEW WORK.
- 6 EXISTING EVAP UNIT TO BE RELOCATED. REUSE/MODIFY EXISTING CONDENSATE DRAIN PIPES. SEE NEW PLANS FOR COMPLETE SCOPE.

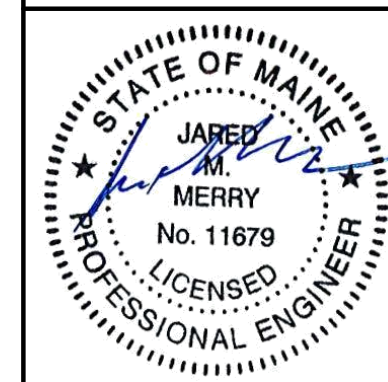
**PLUMBING DEMOLITION NOTES**

- 1 ALL BRANCH PIPING REMOVED FROM THE DOMESTIC WATER SYSTEM SHALL BE REMOVED IN ITS ENTIRETY BACK TO THE BRANCH TAKE-OFF. THE BRANCH TEE SHALL BE REMOVED AND THE EXISTING PIPING SHALL BE MODIFIED AS REQUIRED.
- 2 ANY PIPING RUNS IN WALLS THAT ARE TO BE REMOVED SHALL BE MODIFIED AND RE-ROUTED TO NEW WALLS. ANY EXISTING WALLS USED TO RE-ROUTE PIPING SHALL BE PATCHED AND RE-FINISHED TO MATCH THE EXISTING CONSTRUCTION.



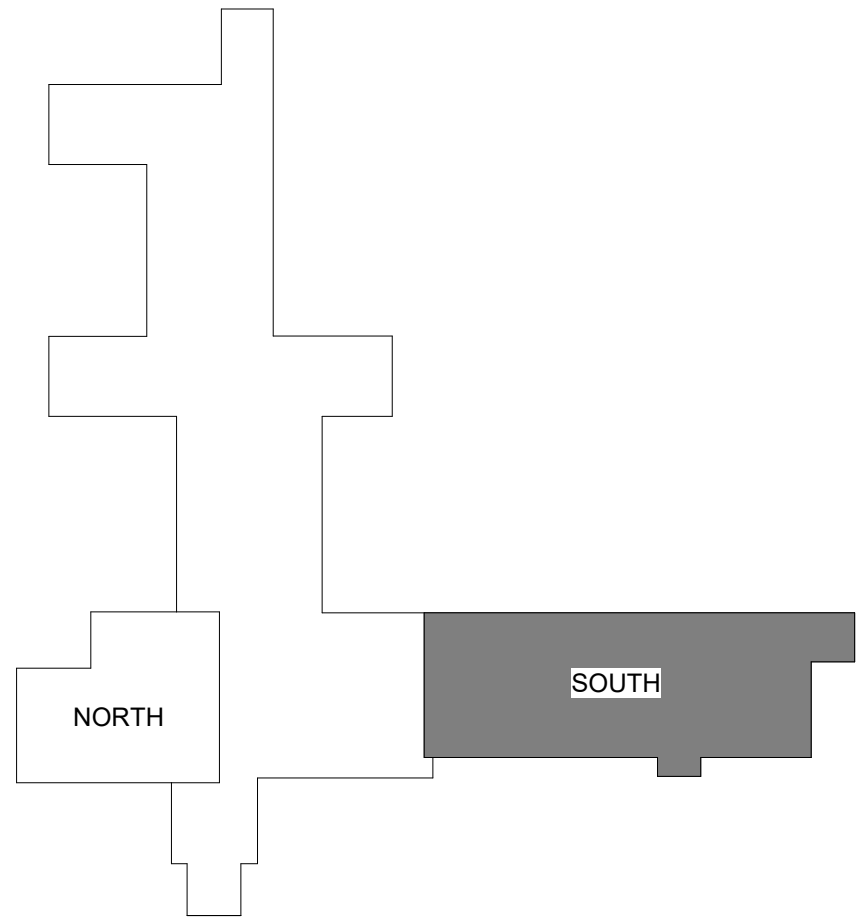
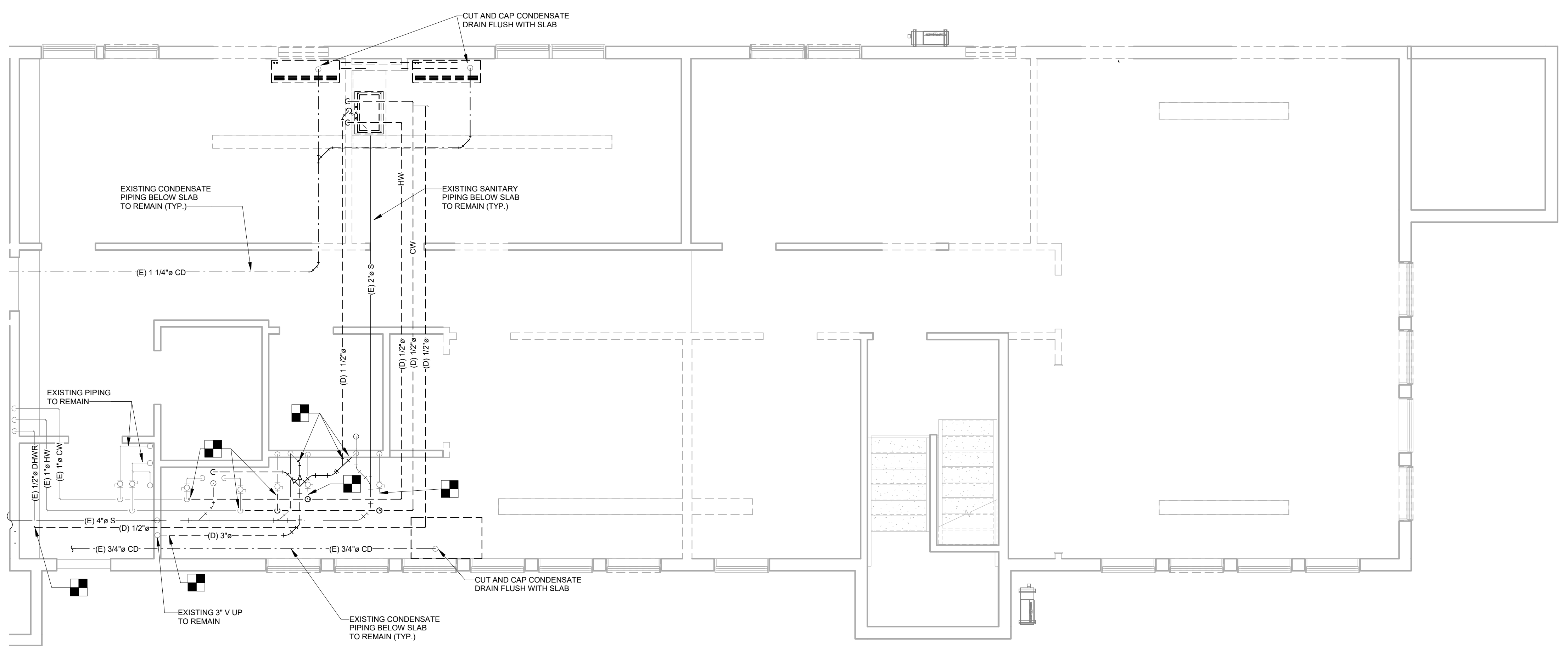
KEYPLAN

REV	DATE	DESCRIPTION	BY	CHK
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<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b>		
ENGINEERING   ENVIRONMENTAL   SURVEYING				
One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.789.4824				
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION</b>				
HARRINGTON, MAINE				
TITLE				
<b>PLUMBING DEMO PLANS - NORTH</b>				
DATE		2022.08.15		SCALE
				As indicated
DRAWN BY	DESIGNED BY	CHECKED BY		
Author	MEB	JMM		
PROJECT No.		11395.013		
DRAWING No.		REV		
<b>P-101</b>				



**PLUMBING DEMOLITION NOTES**

1. ALL BRANCH PIPING REMOVED FROM THE DOMESTIC WATER SYSTEM SHALL BE REMOVED IN ITS ENTIRETY BACK TO THE BRANCH TAKE-OFF. THE BRANCH TEE SHALL BE REMOVED AND THE EXISTING PIPING SHALL BE MODIFIED AS REQUIRED.
2. ANY PIPING RUNS IN WALLS THAT ARE TO BE REMOVED SHALL BE MODIFIED AND RE-ROUTED TO NEW WALLS. ANY EXISTING WALLS USED TO RE-ROUTE PIPING SHALL BE PATCHED AND RE-FINISHED TO MATCH THE EXISTING CONSTRUCTION.



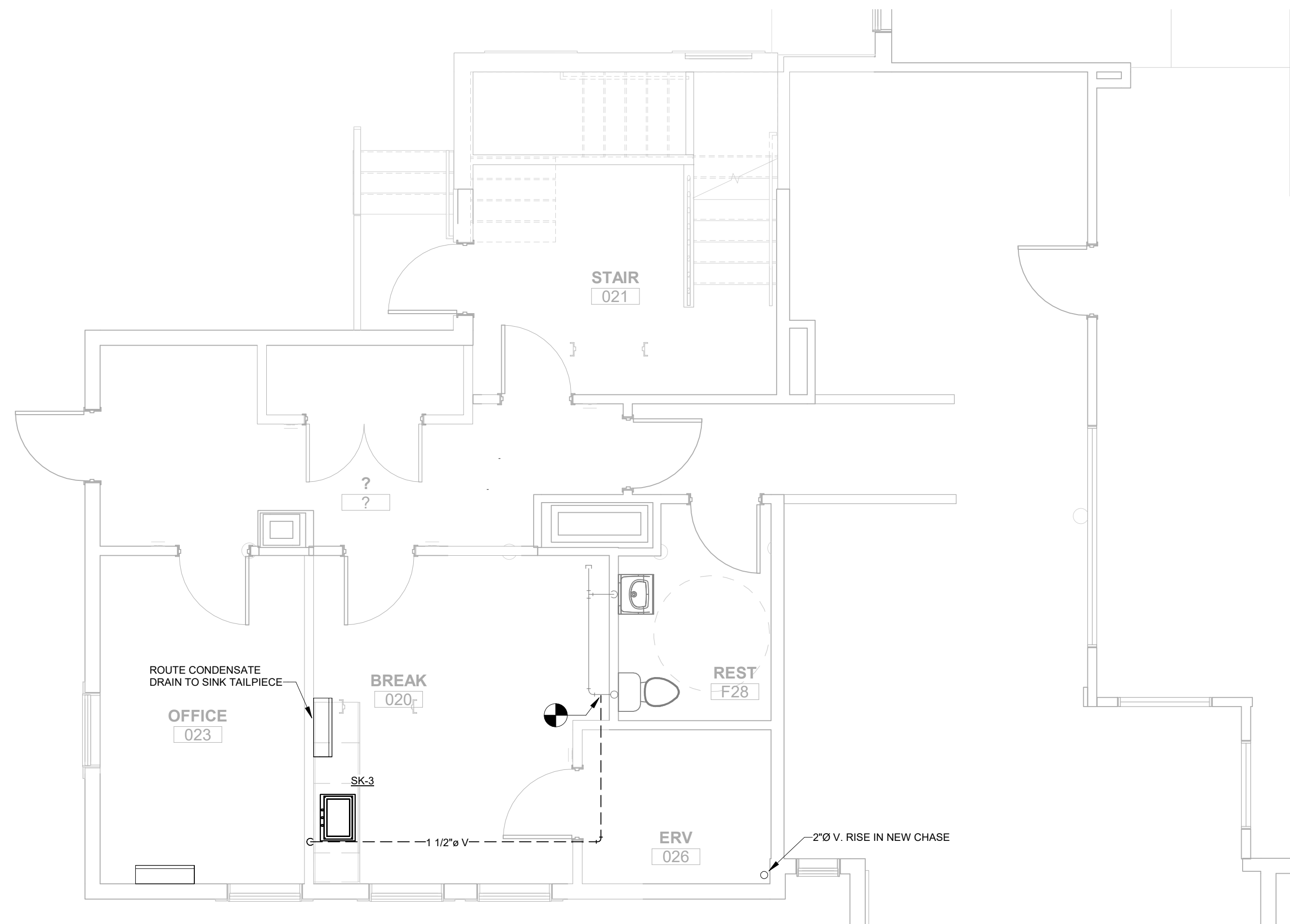
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REV	DATE	DESCRIPTION	BY	CHK
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		<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.789.4824		
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>FIRST FLOOR PLUMBING DEMO PLAN - SOUTH</b>				
DATE		2022.08.15		SCALE
				As indicated
DRAWN BY	DESIGNED BY	CHECKED BY		
MEB	MEB	JMM		
PROJECT No.		11395.013		
DRAWING No.		REV		
<b>P-102</b>				

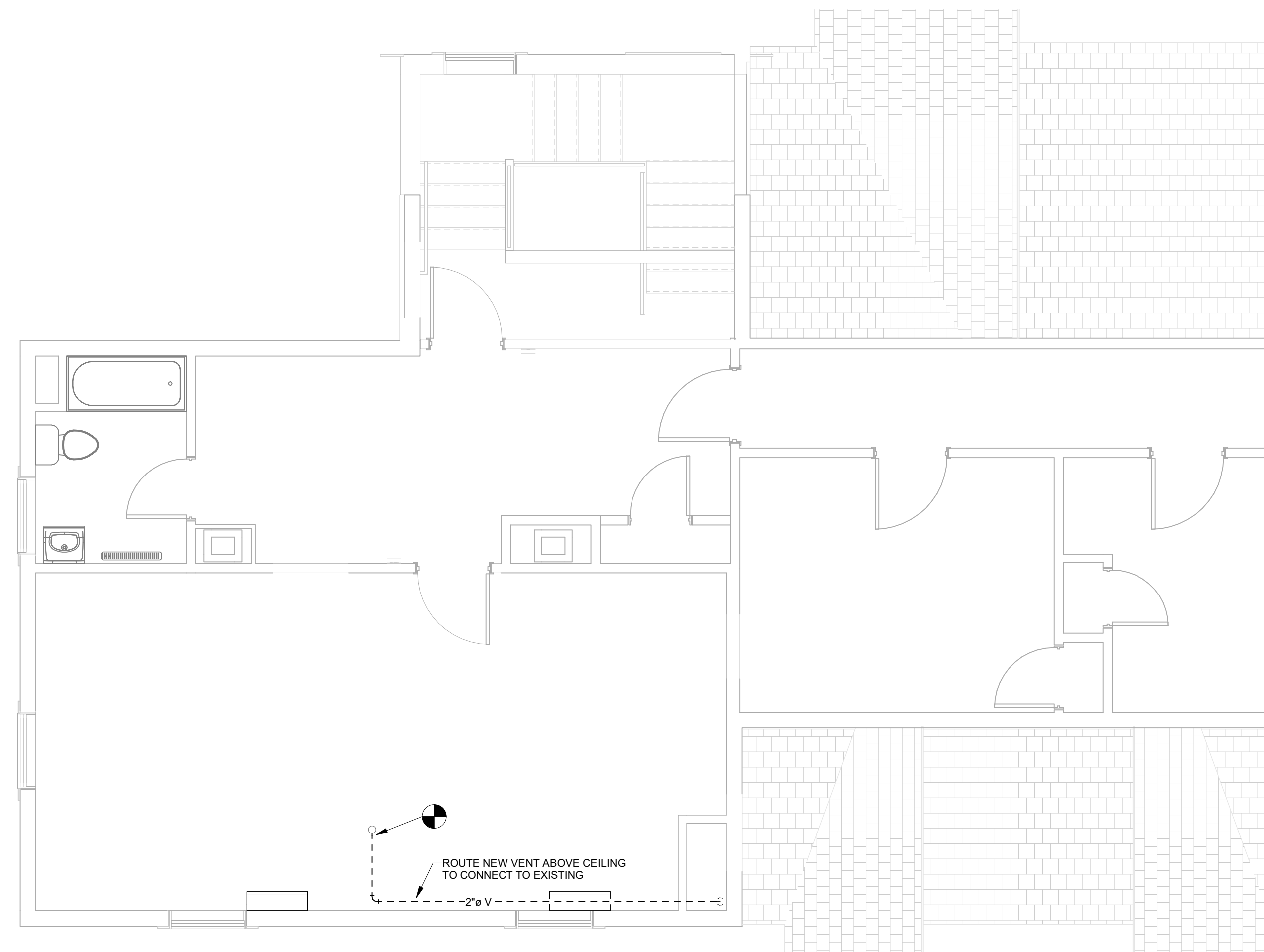
**1**  
**FIRST FLOOR PLUMBING DEMO PLAN - SOUTH**  
 SCALE: 1/4" = 1'-0"

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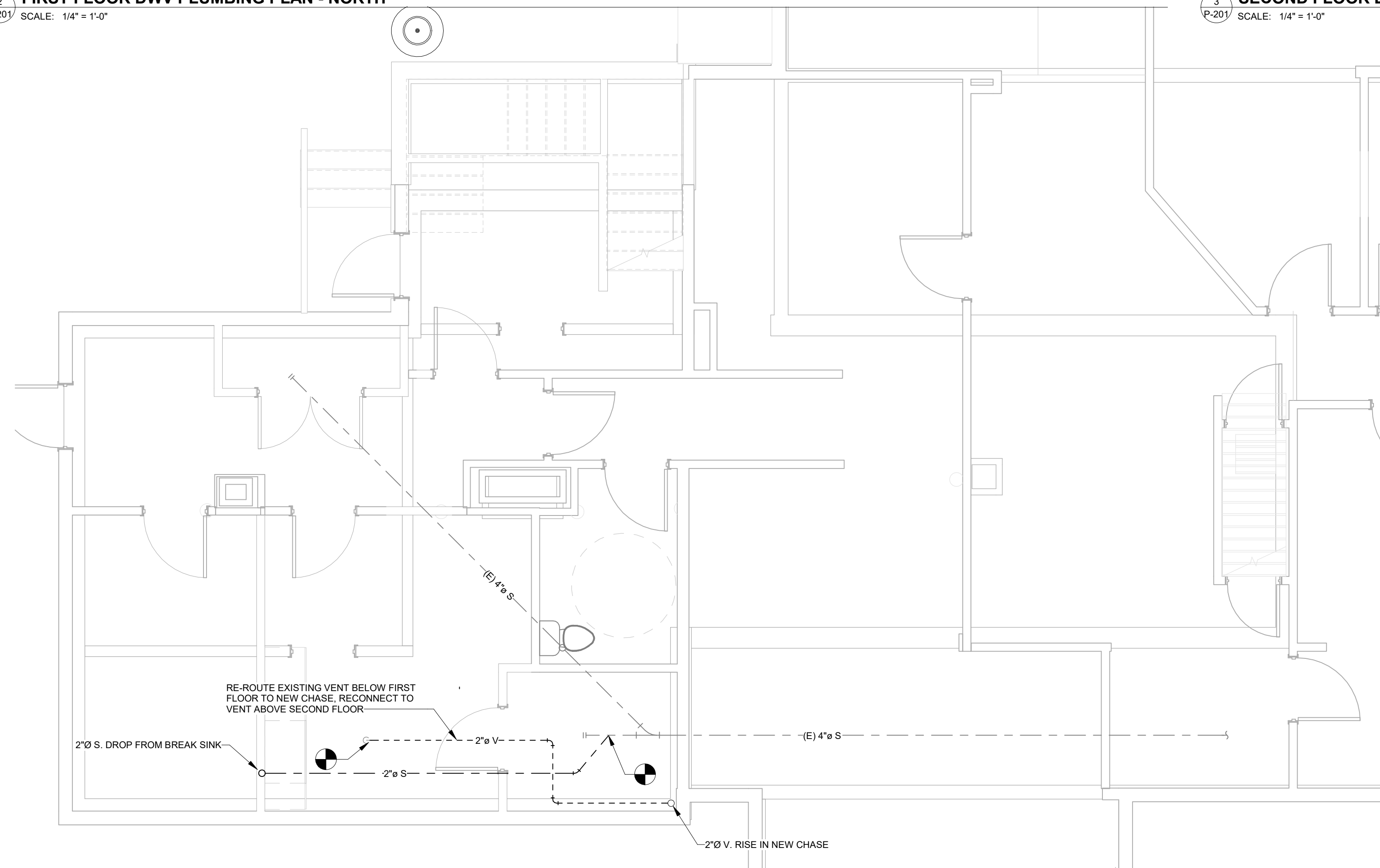




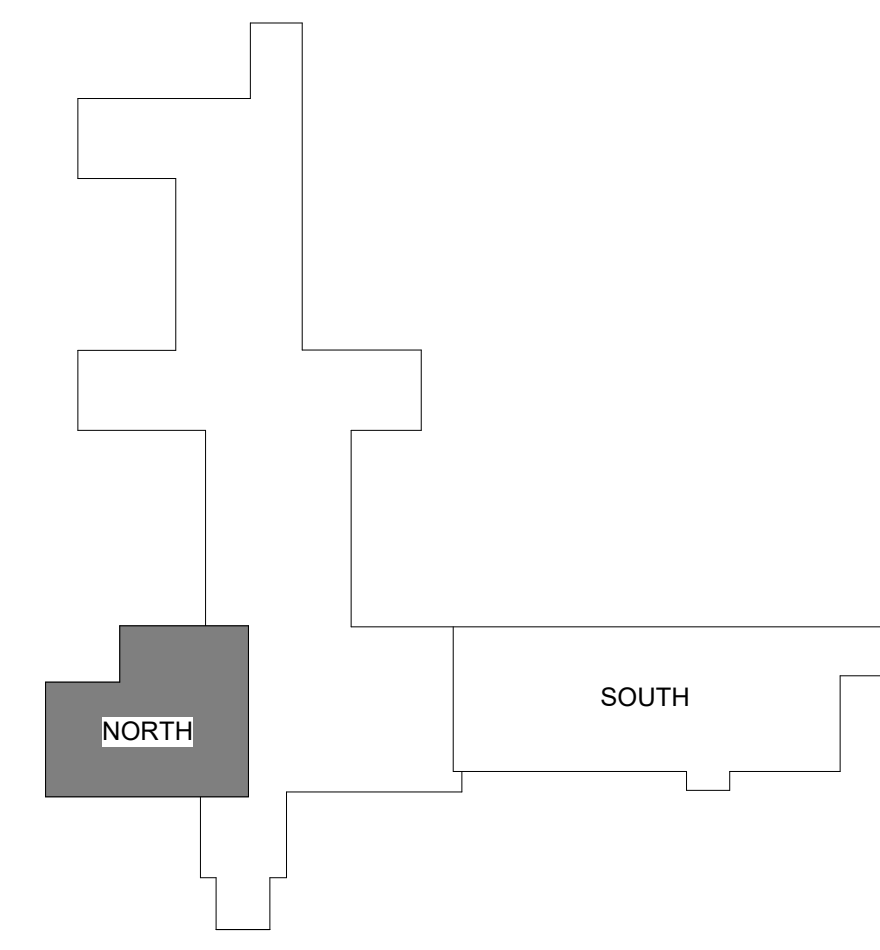
2 FIRST FLOOR DWV PLUMBING PLAN - NORTH  
 P-201 SCALE: 1/4" = 1'-0"



3 SECOND FLOOR DWV PLUMBING PLAN - NORTH  
 P-201 SCALE: 1/4" = 1'-0"



1 BASEMENT DWV PLUMBING PLAN  
 P-201 SCALE: 1/4" = 1'-0"



KEYPLAN

**GENERAL PLUMBING NOTES**

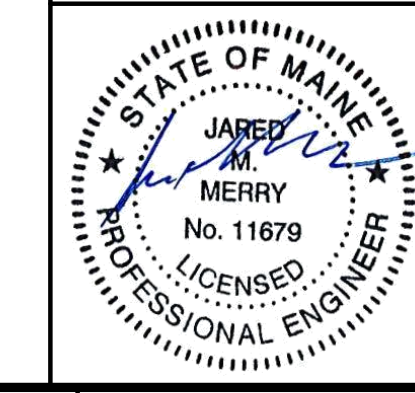
- SEE PLUMBING SCHEDULE FOR ALL FIXTURE CONNECTION SIZES.
- ALL PIPING RUNOUTS TO FIXTURES ARE 1/2" UNLESS NOTED OTHERWISE.
- ALL SHUT OFF VALVE TO BE LOCATED IN ACCESSIBLE LOCATION.
- DENTAL VACUUM MAIN OVERHEAD LINES SHALL PITCH AT A MINIMUM OF 1/4" PER 10 FT.
- DENTAL VACUUM MAIN OVERHEAD LINES SHALL NOT USE ANY 90° ELBOWS, ONLY 45° ELBOWS MAXIMUM.
- INSTALL ALL DENTAL VACUUM PIPING IN ACCORDANCE WITH VACUUM PUMP MANUFACTURER'S REQUIREMENTS. THE EXISTING VACUUM SYSTEM TO BE REUSED IS A VACSTAR MODEL VS80H.
- COORDINATE EXACT WATER, VACUUM AND COMPRESSED AIR STUB UP LOCATIONS WITH ARCHITECTURAL PLANS AND DENTAL EQUIPMENT.
- ALL SPLIT UNIT INDOOR UNITS CONDENSATE DRAINS SHALL BE PIPED TO THE TAIL PIECE OF THE NEAREST ACCESSIBLE PLUMBING FIXTURE. INDOOR UNITS LOCATED ON EXTERIOR WALLS CAN DRAIN TO OUTDOORS THROUGH THE LINESET SLIM DUCT.
- ALL BRANCH PIPING REMOVED FROM THE DOMESTIC WATER SYSTEM SHALL BE REMOVED IN ITS ENTIRETY BACK TO THE BRANCH TAKE-OFF. THE BRANCH TEE SHALL BE REMOVED AND THE EXISTING PIPING SHALL BE MODIFIED AS REQUIRED.

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				

**HARRINGTON FAMILY HEALTH CENTER  
 DENTISTRY RENOVATION  
 HARRINGTON, MAINE**

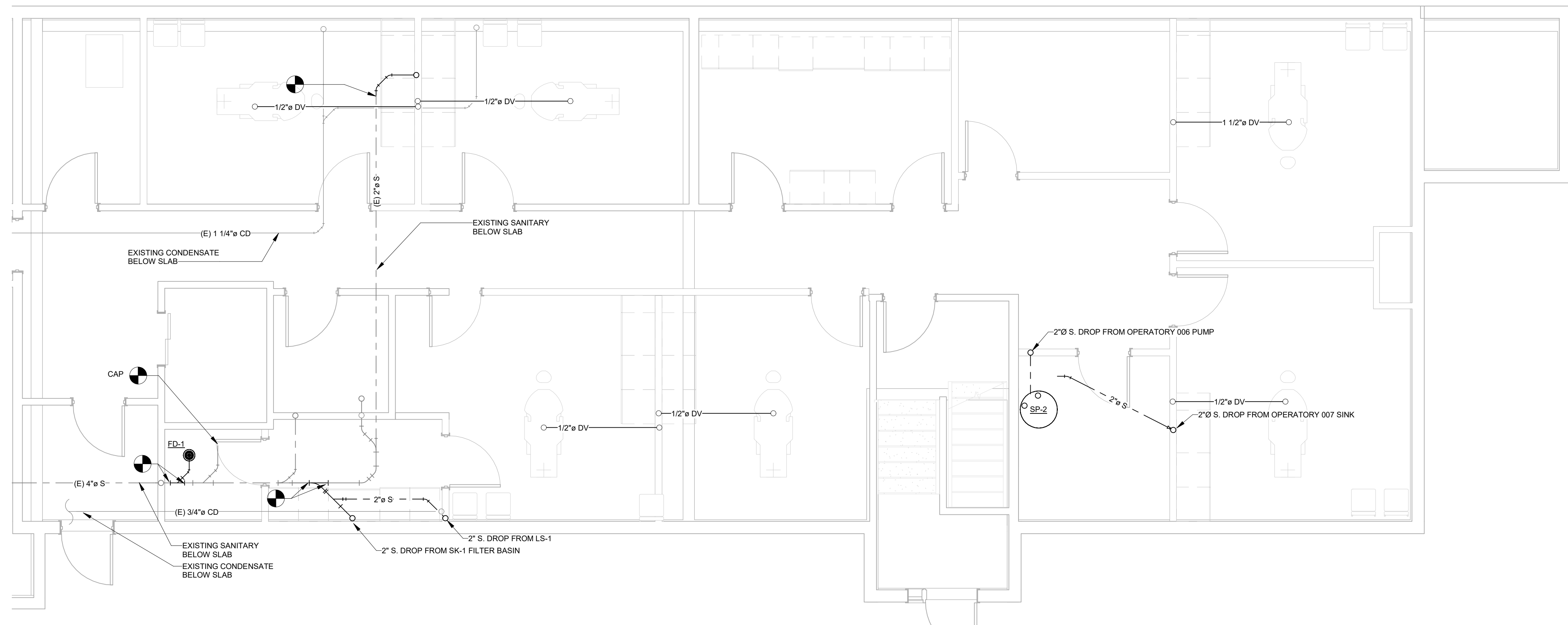
**BASEMENT & FIRST FLOOR DWV PLANS -  
 NORTH**

DATE	2022.08.15	SCALE	As indicated
DRAWN BY	MEB	DESIGNED BY	MEB
CHECKED BY	JMM	PROJECT No.	11395.013
DRAWING No.	<b>P-201</b>		

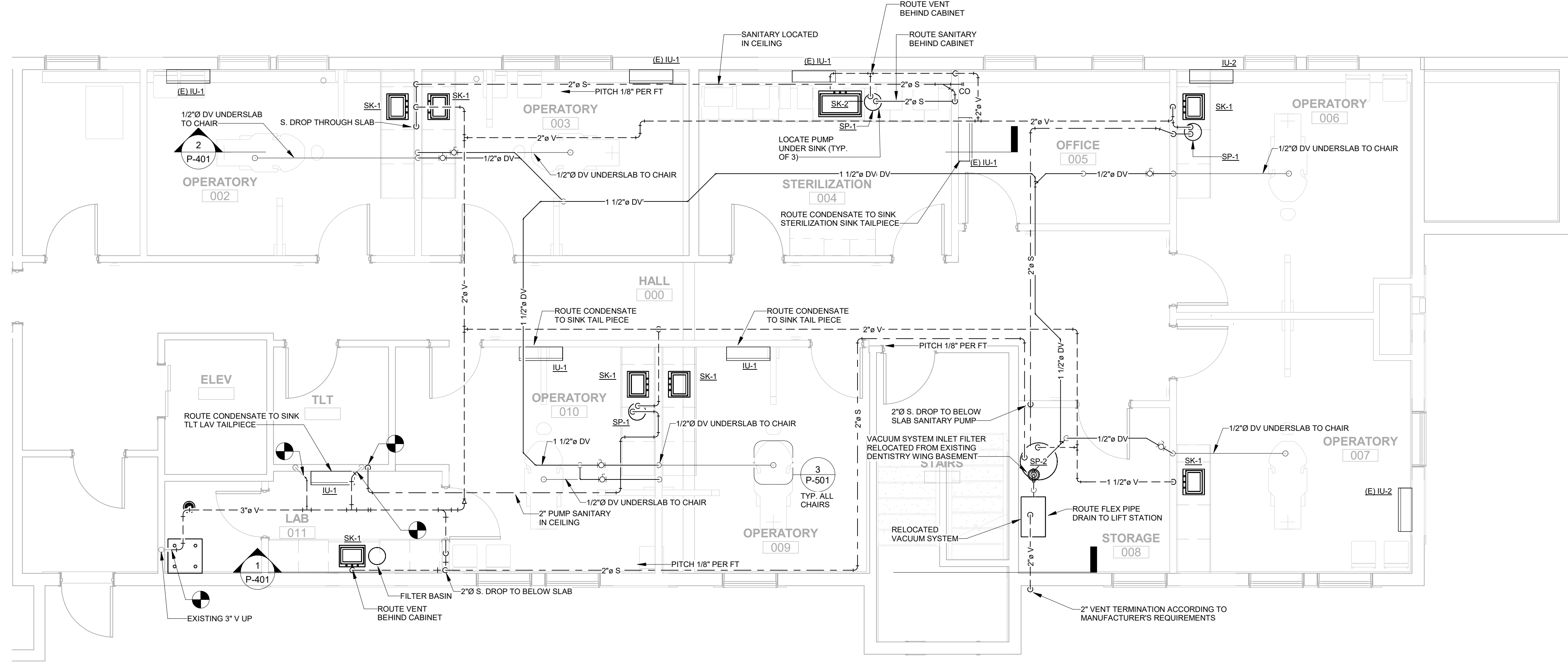


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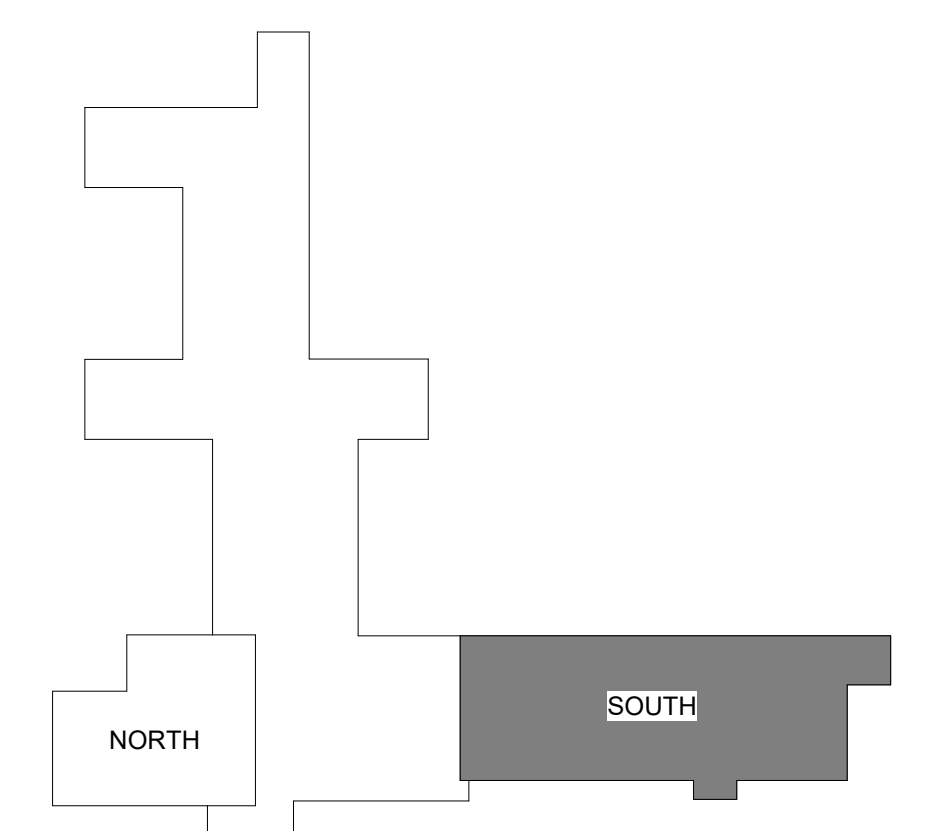
- GENERAL PLUMBING NOTES**
1. SEE PLUMBING SCHEDULE FOR ALL FIXTURE CONNECTION SIZES.
  2. ALL PIPING RUNOUTS TO FIXTURES ARE 1/2" UNLESS NOTED OTHERWISE.
  3. ALL SHUT OFF VALVE TO BE LOCATED IN ACCESSIBLE LOCATION.
  4. DENTAL VACUUM MAIN OVERHEAD LINES SHALL PITCH AT A MINIMUM OF 1/4" PER 10 FT.
  5. DENTAL VACUUM MAIN OVERHEAD LINES SHALL NOT USE ANY 90° ELBOWS, ONLY 45° ELBOWS MAXIMUM.
  6. INSTALL ALL DENTAL VACUUM PIPING IN ACCORDANCE WITH VACUUM PUMP MANUFACTURER'S REQUIREMENTS. THE EXISTING VACUUM SYSTEM TO BE REUSED IS A VACSTAR MODEL VS80H. COORDINATE EXACT WATER, VACUUM AND COMPRESSED AIR SUB UP LOCATIONS WITH ARCHITECTURAL PLANS AND DENTAL EQUIPMENT.
  7. ALL SPLIT UNIT INDOOR UNITS CONDENSATE DRAINS SHALL BE PIPED TO THE TAIL PIECE OF THE NEAREST ACCESSIBLE PLUMBING FIXTURE. INDOOR UNITS LOCATED ON EXTERIOR WALLS CAN DRAIN TO OUTDOORS THROUGH THE LINESET SLIM DUCT.
  8. ALL BRANCH PIPING REMOVED FROM THE DOMESTIC WATER SYSTEM SHALL BE REMOVED IN ITS ENTIRETY BACK TO THE BRANCH TAKE-OFF. THE BRANCH TEE SHALL BE REMOVED AND THE EXISTING PIPING SHALL BE MODIFIED AS REQUIRED.



**2 UNDERSLAB DWV PLUMBING PLAN - SOUTH**  
SCALE: 1/4" = 1'-0"



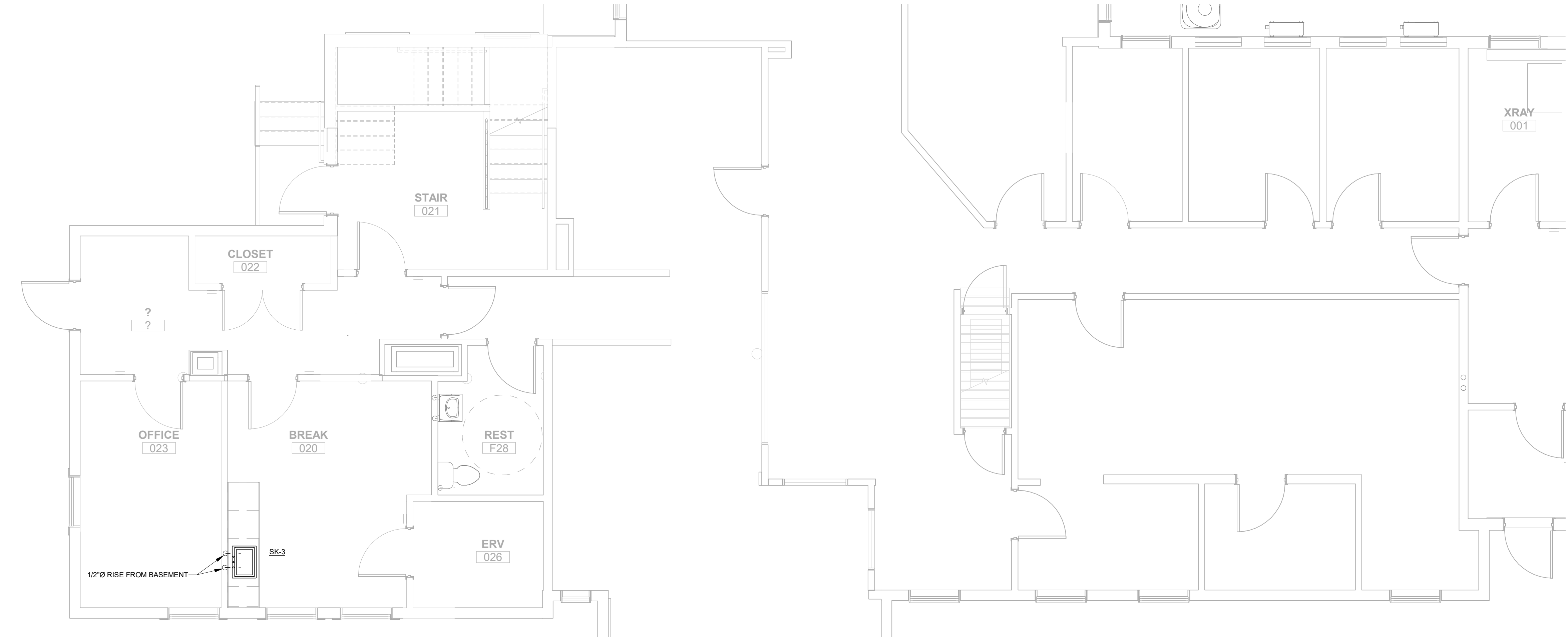
**1 FIRST FLOOR DWV PLUMBING PLAN - SOUTH**  
SCALE: 1/4" = 1'-0"



**KEYPLAN**

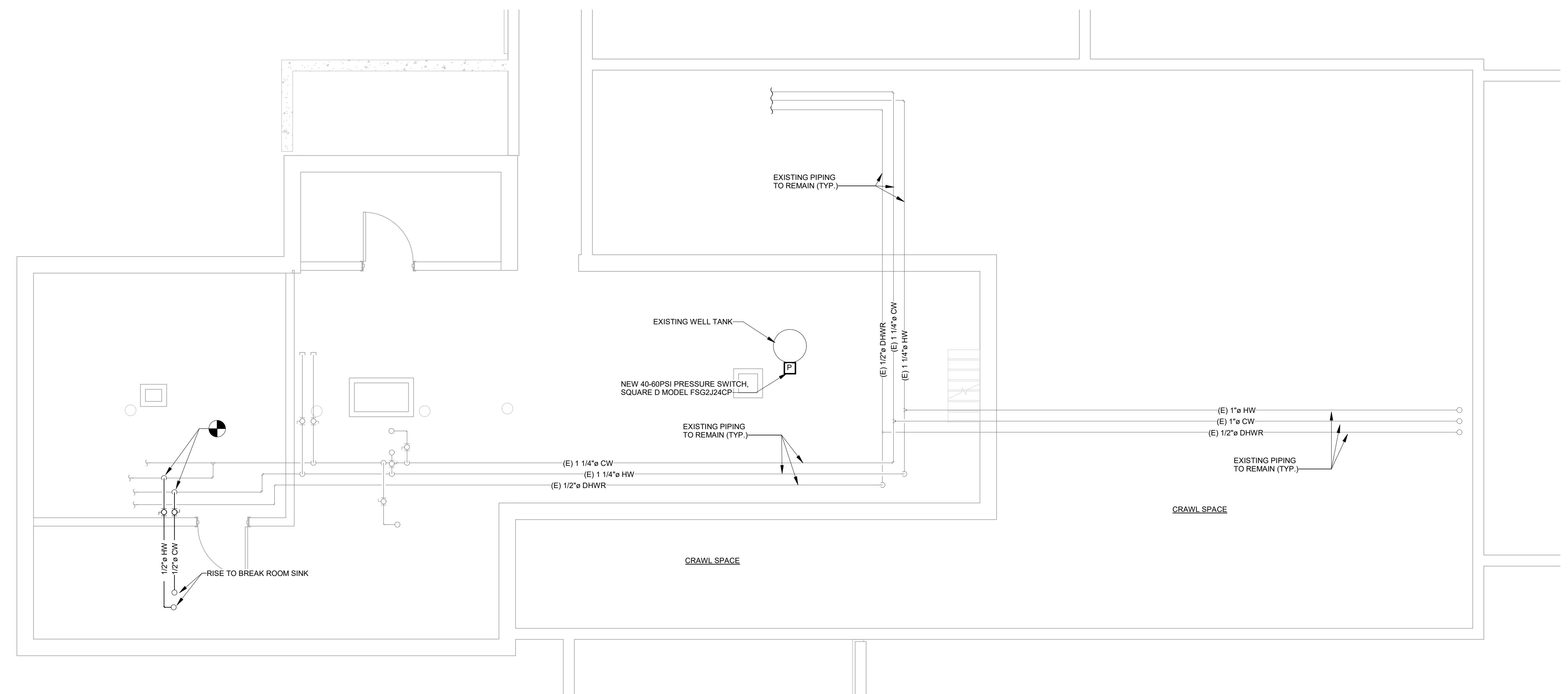
REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING		
One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824				
PROJECT <b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE <b>UNDERSLAB &amp; FIRST FLOOR DWV PLAN - SOUTH</b>				
DATE 2022.08.15		SCALE As indicated		
DRAWN BY MEB	DESIGNED BY MEB	CHECKED BY JMM		
PROJECT No. 11395.013				
DRAWING No.		<b>P-202</b>		

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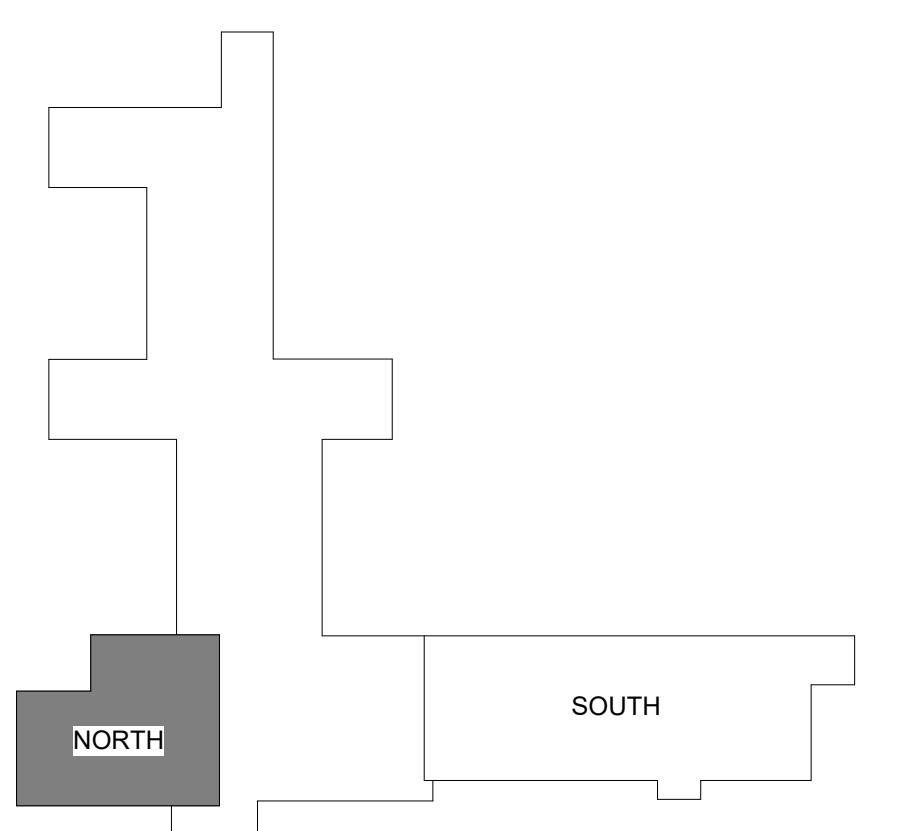


**2 FIRST FLOOR DOMESTIC PLUMBING PLAN - NORTH**  
 P-301 SCALE: 1/4" = 1'-0"

- GENERAL PLUMBING NOTES**
1. SEE PLUMBING SCHEDULE FOR ALL FIXTURE CONNECTION SIZES.
  2. ALL PIPING RUNOUTS TO FIXTURES ARE 1/2" UNLESS NOTED OTHERWISE.
  3. ALL SHUT OFF VALVE TO BE LOCATED IN ACCESSIBLE LOCATION.
  4. DENTAL VACUUM MAIN OVERHEAD LINES SHALL PITCH AT A MINIMUM OF 1/4" PER 10 FT.
  5. DENTAL VACUUM MAIN OVERHEAD LINES SHALL NOT USE ANY 90° ELBOWS, ONLY 45° ELBOWS MAXIMUM.
  6. INSTALL ALL DENTAL VACUUM PIPING IN ACCORDANCE WITH VACUUM PUMP MANUFACTURER'S REQUIREMENTS. THE EXISTING VACUUM SYSTEM TO BE REUSED IS A VACSTAR MODEL VS804.
  7. COORDINATE EXACT WATER, VACUUM AND COMPRESSED AIR STUB UP LOCATIONS WITH ARCHITECTURAL PLANS AND DENTAL EQUIPMENT.
  8. ALL SPLIT UNIT INDOOR UNITS CONDENSATE DRAINS SHALL BE PIPED TO THE TAIL PIECE OF THE NEAREST ACCESSIBLE PLUMBING FIXTURE. INDOOR UNITS LOCATED ON EXTERIOR WALLS CAN DRAIN TO OUTDOORS THROUGH THE LINESET SLIM DUCT.
  9. ALL BRANCH PIPING REMOVED FROM THE DOMESTIC WATER SYSTEM SHALL BE REMOVED IN ITS ENTIRETY BACK TO THE BRANCH TAKE-OFF. THE BRANCH TEE SHALL BE REMOVED AND THE EXISTING PIPING SHALL BE MODIFIED AS REQUIRED.

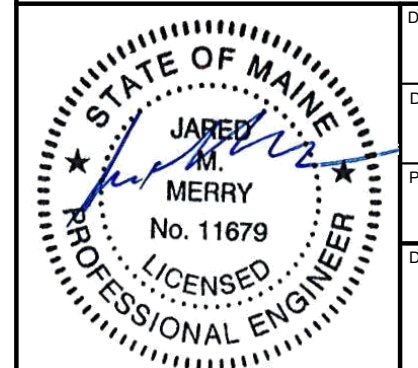


**1 BASEMENT DOMESTIC PLUMBING PLAN - NORTH**  
 P-301 SCALE: 1/4" = 1'-0"



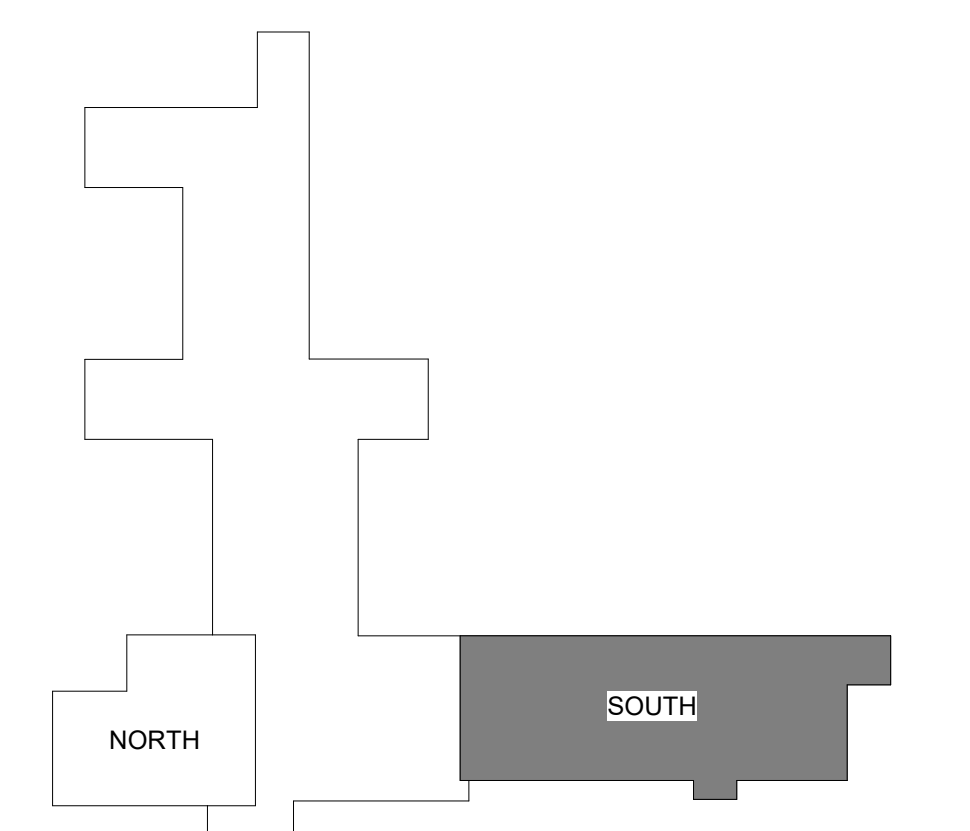
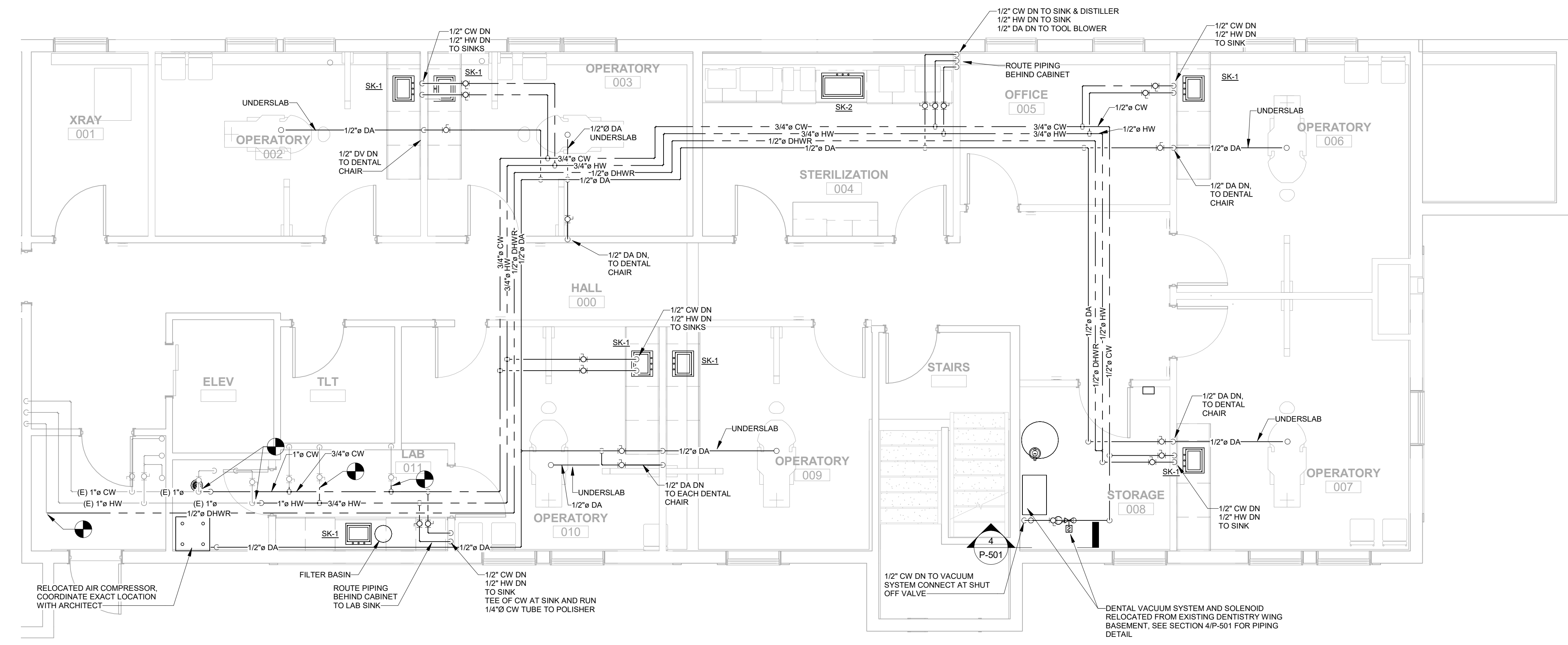
**KEYPLAN**

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING		
One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824				
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>DOMESTIC PLUMBING PLANS - NORTH</b>				
DATE		2022.08.15	SCALE	
DRAWN BY		MEB	As indicated	
DESIGNED BY		MEB	CHECKED BY	
PROJECT No.		11395.013	JMM	
DRAWING NO.		<b>P-301</b>		REV



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- GENERAL PLUMBING NOTES**
- SEE PLUMBING SCHEDULE FOR ALL FIXTURE CONNECTION SIZES.
  - ALL PIPING RUNOUTS TO FIXTURES ARE 1/2" UNLESS NOTED OTHERWISE.
  - ALL SHUT OFF VALVE TO BE LOCATED IN ACCESSIBLE LOCATION.
  - DENTAL VACUUM MAIN OVERHEAD LINES SHALL PITCH AT A MINIMUM OF 1/4" PER 10 FT.
  - DENTAL VACUUM MAIN OVERHEAD LINES SHALL NOT USE ANY 90° ELBOWS, ONLY 45° ELBOWS MAXIMUM.
  - INSTALL ALL DENTAL VACUUM PIPING IN ACCORDANCE WITH VACUUM PUMP MANUFACTURER'S REQUIREMENTS. THE EXISTING VACUUM SYSTEM TO BE REUSED IS A VACSTAR MODEL VS80H.
  - COORDINATE EXACT WATER, VACUUM AND COMPRESSED AIR STUB UP LOCATIONS WITH ARCHITECTURAL PLANS AND DENTAL EQUIPMENT.
  - ALL SPLIT UNIT INDOOR UNITS CONDENSATE DRAINS SHALL BE PIPED TO THE TAIL PIECE OF THE NEAREST ACCESSIBLE PLUMBING FIXTURE. INDOOR UNITS LOCATED ON EXTERIOR WALLS CAN DRAIN TO OUTDOORS THROUGH THE LINESET SLIM DUCT.
  - ALL BRANCH PIPING REMOVED FROM THE DOMESTIC WATER SYSTEM SHALL BE REMOVED IN ITS ENTIRETY BACK TO THE BRANCH TAKE-OFF. THE BRANCH TEE SHALL BE REMOVED AND THE EXISTING PIPING SHALL BE MODIFIED AS REQUIRED.



**FIRST FLOOR DOMESTIC PLUMBING PLAN - SOUTH**  
 SCALE: 1/4" = 1'-0"

**KEYPLAN**

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b>		
ENGINEERING   ENVIRONMENTAL   SURVEYING				
One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824				
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>DOMESTIC PLUMBING PLAN - SOUTH</b>				
DATE		SCALE		
2022.08.15		As indicated		
DRAWN BY	DESIGNED BY	CHECKED BY		
MEB	MEB	JMM		
PROJECT No.		11395.013		
DRAWING No.		P-302		

STATE OF MAINE

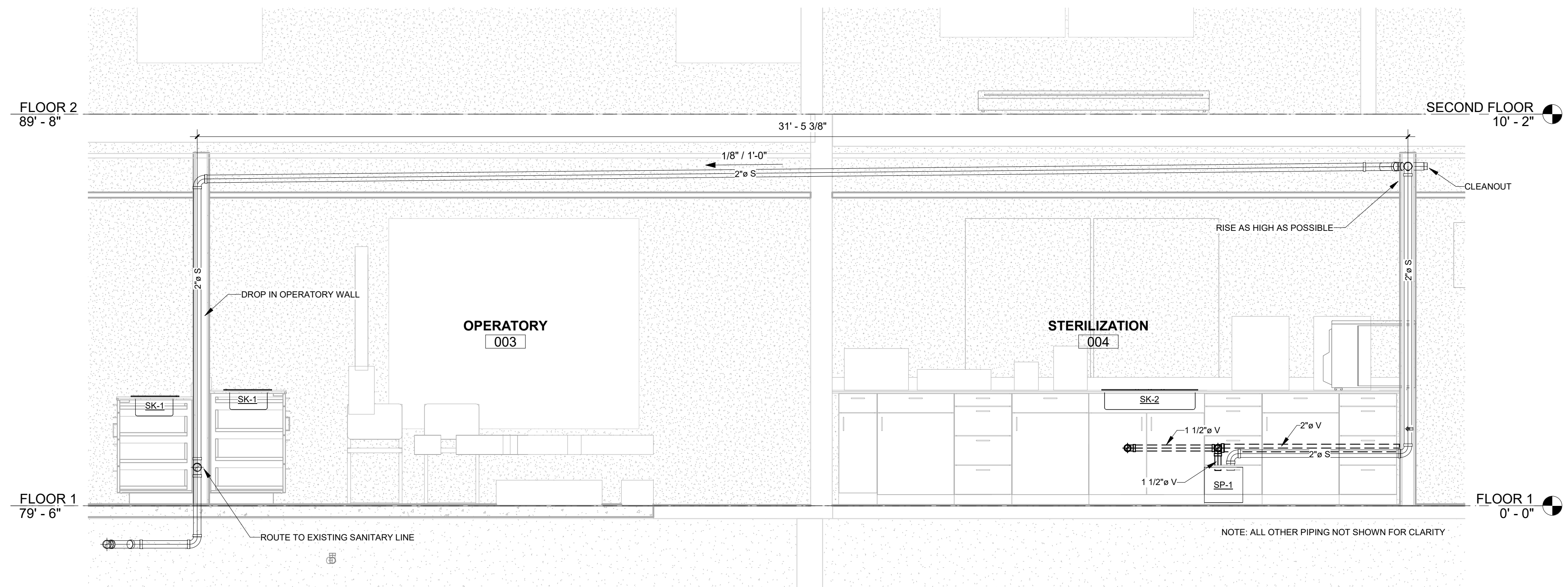
JERRY MERRY

No. 11679

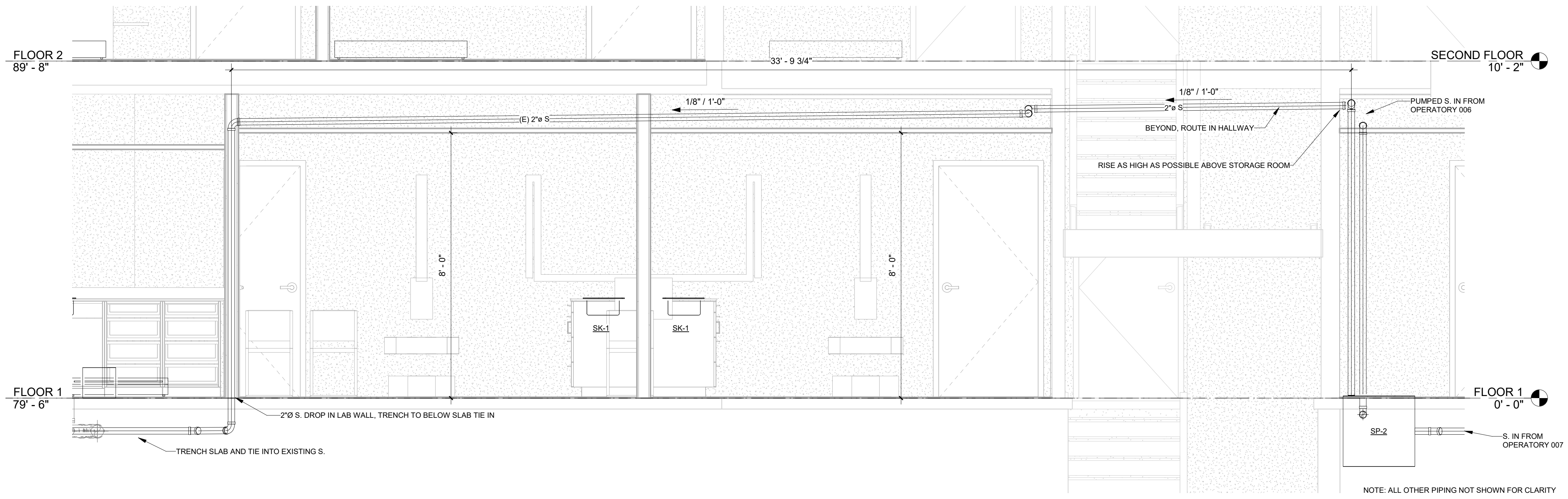
LICENSED PROFESSIONAL ENGINEER

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2  
P-401  
**STERILIZATION 004 PUMPED SANITARY SECTION**  
SCALE: 1/2" = 1'-0"



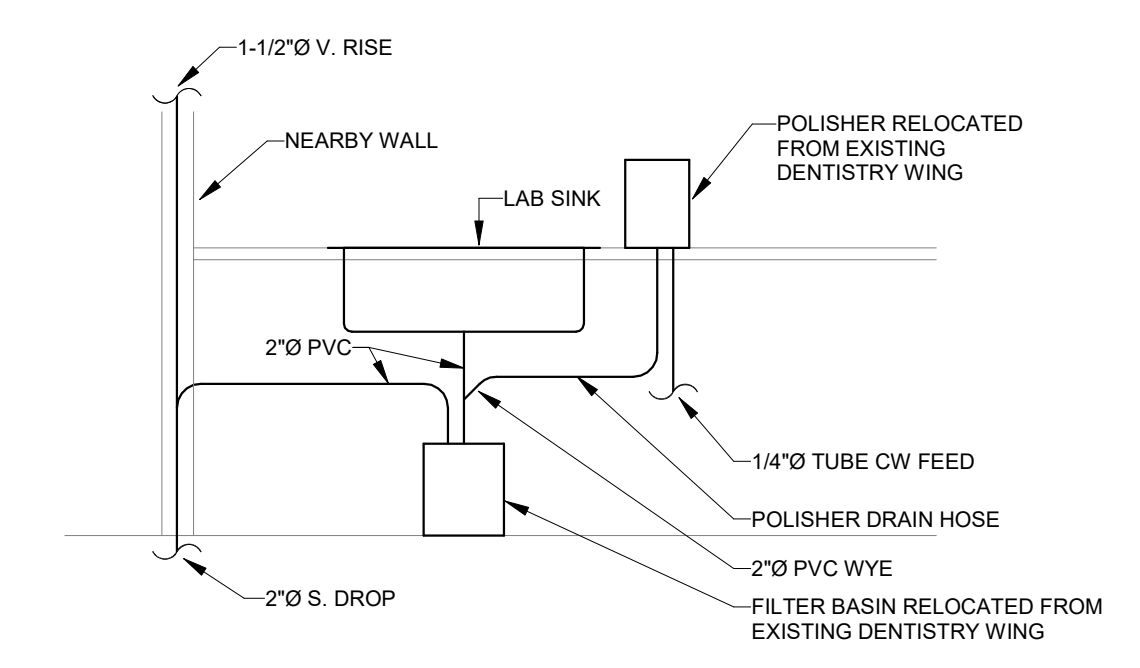
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P-401  
**STORAGE 008 PUMPED SANITARY SECTION**  
SCALE: 1/2" = 1'-0"

REV.	DATE	DESCRIPTION	BY	CHK.
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
 <b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 WWW.HALEYWARD.COM				
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>PLUMBING SECTIONS</b>				

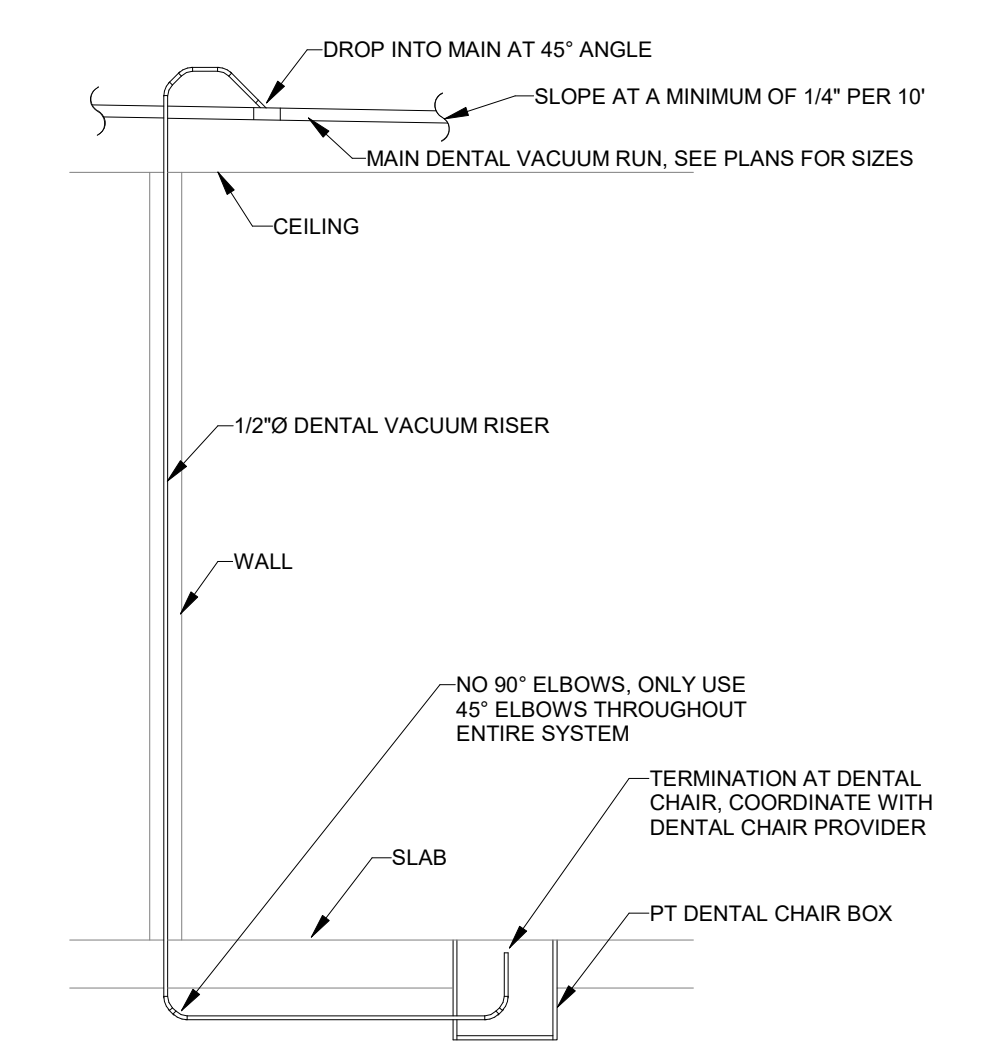
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	DRAWN BY	JNB	DESIGNED BY	JNB
	CHECKED BY	JMM		
	PROJECT No.	11395.013		
DRAWING NO.		<b>P-401</b>		

PLUMBING FIXTURE SCHEDULE											
TAG	DESCRIPTION	FIXTURE			ACCESSORY		HW	CW	WASTE	VENT	REMARKS
		MANUFACTURER	MODEL #	ACC. MANUFACTURER	ACC. MODEL #						
FD-1	FLOOR DRAIN, ADJUSTABLE WITH ROUND TOP, TRAP PRIMER CONNECTION	ZURN	FD1-PV4					3/8"	4"	1 1/2"	
SK-1	OPERATORY SINK	ELKAY	PSR1918	ELKAY	LK423L4	1/2"	1/2"	2"	1 1/2"	2"	2 HOLE, 4" CENTERS, PROVIDE WITH DRAIN DRAIN
SK-2	STERILIZATION SINK	ELKAY	DSESR12722	ELKAY	LK1000CR	1/2"	1/2"	2"	1 1/2"	2"	3 HOLE, 4" CENTERS, PROVIDE WITH STRAINER DRAIN
SK-3	BREAK ROOM SINGLE BOWL SINK	ELKAY	GE12521	ELKAY	LK1000CR	1/2"	1/2"	2"	1 1/2"	2"	3 HOLE, 4" CENTERS, PROVIDE WITH STRAINER DRAIN

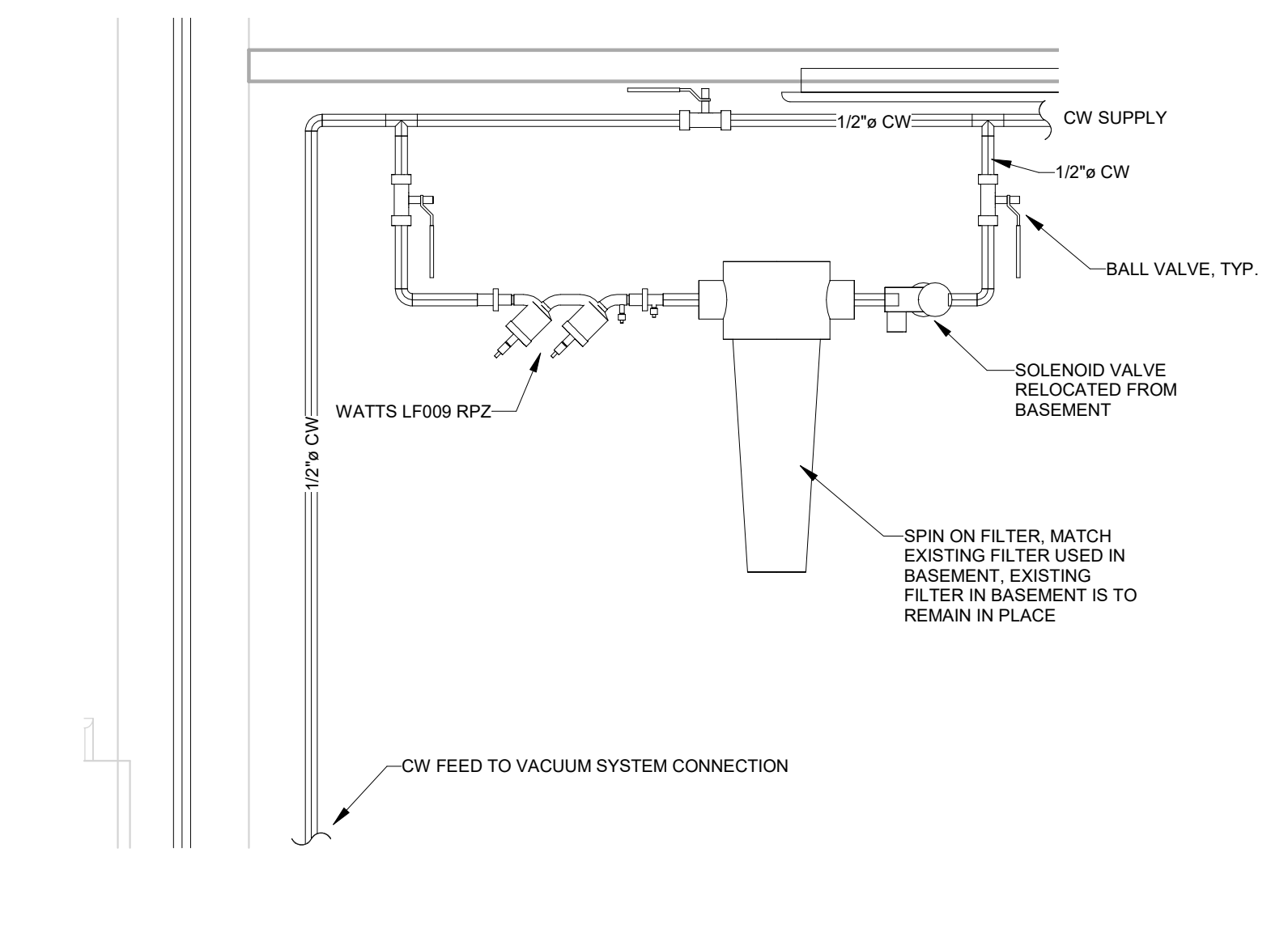
SANITARY PUMP SCHEDULE											
Type Mark	Manufacturer	Model	GPM	PUMPING HEAD	CONNECTIONS		ELECTRICAL			REMARKS	
					WASTE	VENT	VOLTAGE	PHASE	FLA		POWER
SP-1	LIBERTY PUMPS	406	16.50 GPM	10.00 FT	1 1/2"	1 1/2"	120 V	1	1.7 A	204 W	
SP-2	LIBERTY PUMPS	P372LE41	34.00 GPM	10.00 FT	2"	2"	120 V	1	9	1080 W	PROVIDE WITH ACCESS RISER WITH COVER



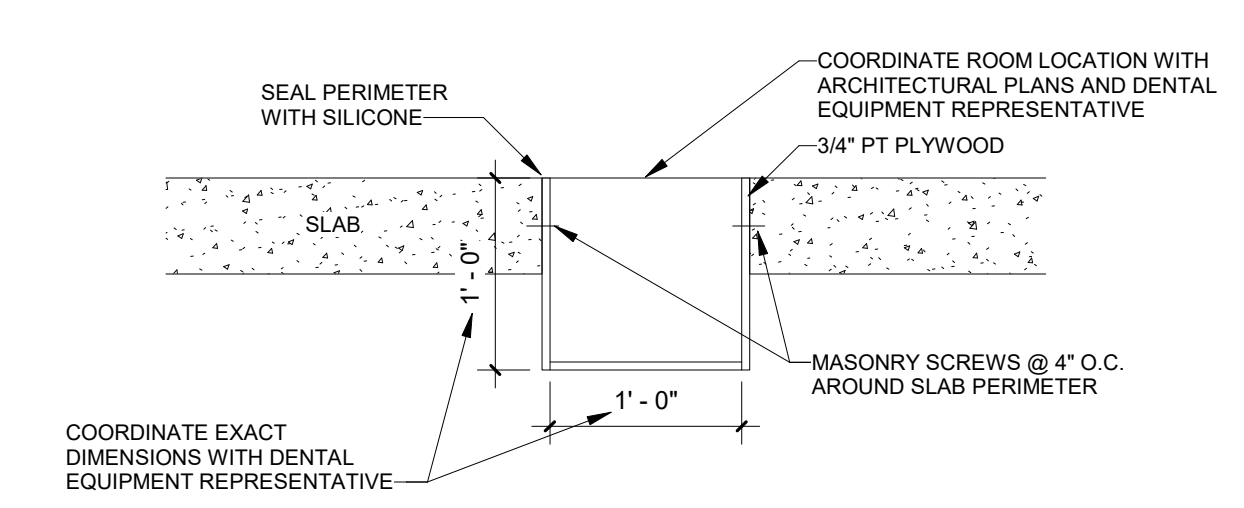
**6 LAB SINK DETAIL**  
P-501 SCALE: 1/2" = 1'-0"



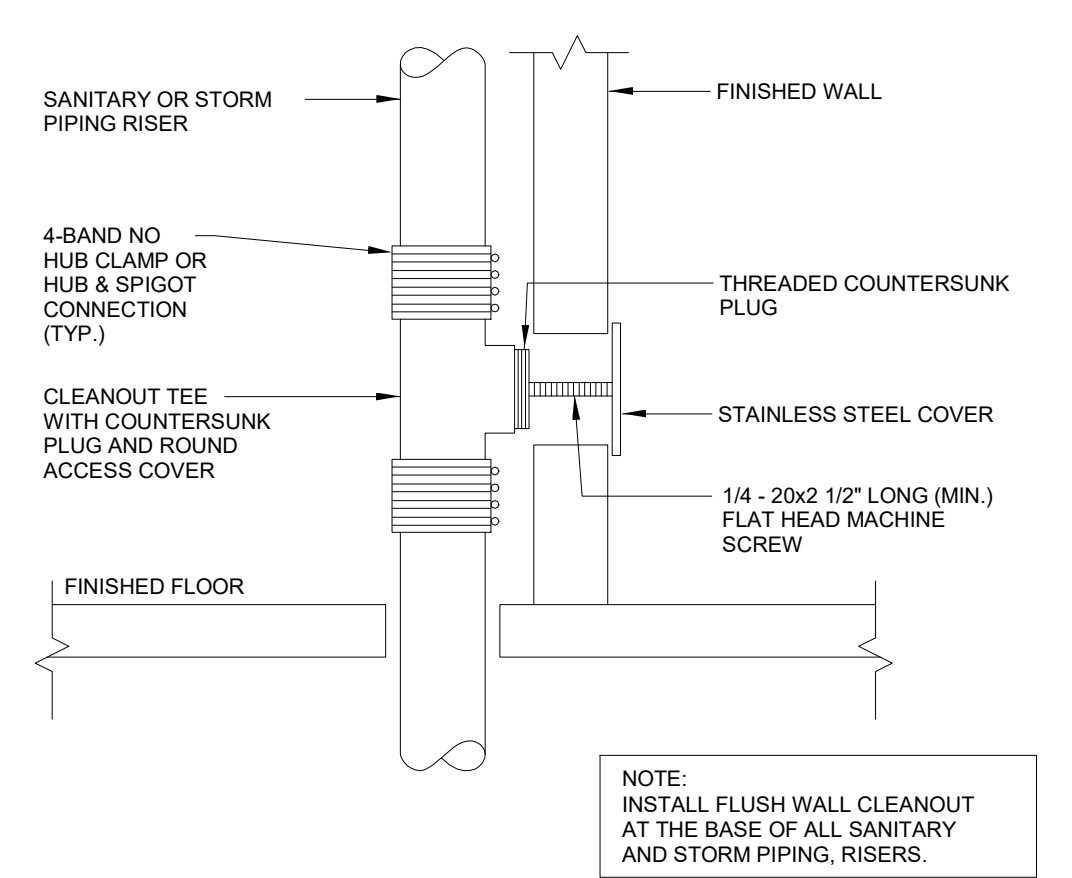
**5 DENTAL VACUUM BRANCH DETAIL**  
P-501 SCALE: 1/2" = 1'-0"



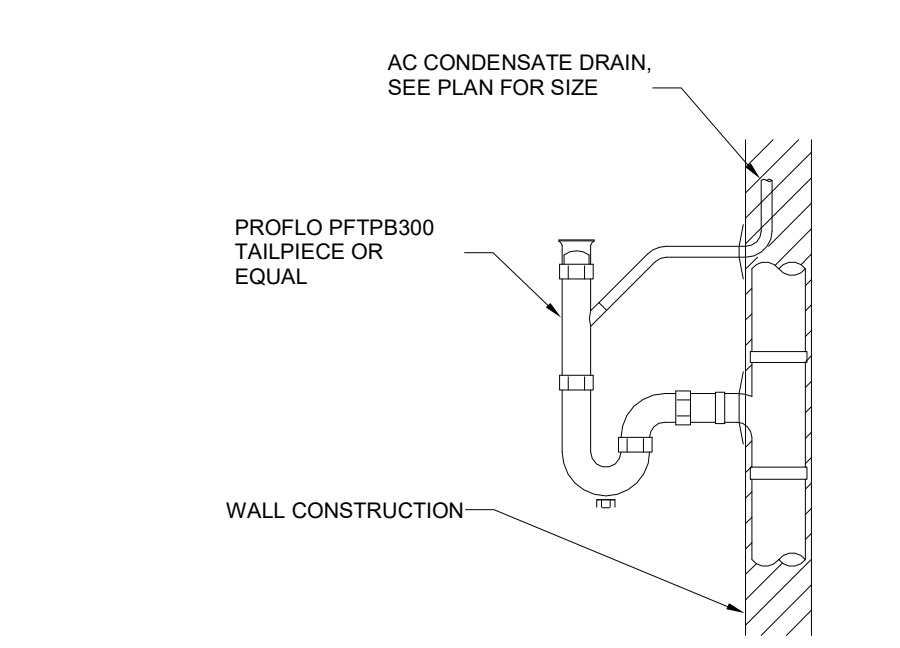
**4 VACUUM SYSTEM CW FEED DETAIL**  
P-501 SCALE: 1 1/2" = 1'-0"



**3 DENTAL CHAIR RECESSED UTILITY BOX DETAIL**  
P-501 SCALE: 1" = 1'-0"



**2 FLUSH WALL CLEANOUT DETAIL**  
P-501 SCALE: 1/4" = 1'-0"



**1 TYPICAL 3/4" AC CONDENSATE DRAIN CONNECTION TO LAV**  
P-501 SCALE: 1/2" = 1'-0"

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824		
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
<b>PLUMBING DETAILS &amp; SCHEDULE</b>				
DATE: 2022.08.15		SCALE: As indicated		
DRAWN BY: MEB	DESIGNED BY: MEB	CHECKED BY: JMM		
PROJECT No: 11395.013		DRAWING No: P-501		

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**ABBREVIATIONS**

AAV	AUTOMATIC AIR VENT	HP	HEAT PUMP
ACC	AIR COOLED CONDENSER	HRU	HEAT RECOVERY UNIT
ACU	AIR CONDENSING UNIT	HTR	HEATER
ACV	AUTOMATIC CONTROL VALVE	HUM	HUMIDIFIER
AD	ACCESS DOOR	(L)	EXISTING IN NEW LOCATION
AE	ACID EXHAUST	LD	LINED DUCT
AFF	ABOVE FINISHED FLOOR	LSD	LINEAR SLOT DIFFUSER
AHU	AIR HANDLING UNIT	MAU	MAKE UP AIR UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL	MAX	MAXIMUM
AV	AIR VENT	MBH	1000 BTU/HR
B	BOILER	MD	MOTOR OPERATED DAMPER
BB	BASEBOARD	ME	MECHANICAL ENGINEER
BDD	BACKDRAFT DAMPER	MFR	MANUFACTURER
BLDG	BUILDING	MIN	MINIMUM
BOD	BOTTOM OF DUCT	MPV	MULTI-PURPOSE VALVE
BOP	BOTTOM OF PIPE	MTD	MOUNTED
BTU	BRITISH THERMAL UNIT	MUA	MAKE UP AID
CBD	COUNTER BALANCED DAMPER	(N)	NEW
CD	CEILING DIFFUSER	NTS	NOT TO SCALE
CFF	CAPPED FOR FUTURE	OA	OUTSIDE AIR
CFM	CUBIC FEET PER MINUTE	OBVD	OPPOSED BLADE VOLUME DAMPER
CH	CHILLER	OED	OPEN ENDED DUCT
CLG	CEILING	PPE	PRE PURCHASED EQUIPMENT
CO	CLEAN OUT	PRS	PRESSURE REDUCING STATION
CONT	CONTINUATION	PRV	PRESSURE REDUCING VALE
COORD	COORDINATE	(R)	EXISTING TO BE DICONNECTED AND REMOVED
CP	CONDENSATE PUMP & RECEIVER	RA	EXHAUST AIR
CRAC	COMPUTER ROOM AIR CONDITIONER	RF	RETURN FAN
CT	COOLING TOWER	RG	RETURN GRILLE
CTE	CONNECT TO EXISTING	RHC	REHEAT COIL
CU	COPPER	RHP	RADIANT HEATING PANEL
CUH	CABINET UNIT HEATER	(RL)	EXISTING TO BE DICONNECTED AND RELOCATED
CV	CONTROL VALVE	RM	ROOM
DC	DOUBLE CONTAINED	(RP)	EXISTING TO BE REPLACED
DDC	DIRECT DIGITAL CONTROL	RR	RETURN REGISTER
DIA	DIAMETER	RV	RELIEF VALVE
DIC	DOWN IN CHASE	RVD	REMOTE VOLUME DAMPER
DIW	DOWN IN WALL	SA	SUPPLY AIR
DN	DOWN	SD	SMOKE DETECTOR
DWG	DRAWING	SF	SUPPLY FAN
DWH	DOMESTIC WATER HEATER	SG	SUPPLY GRILLE
(E)	EXISTING TO REMAIN	SR	SUPPLY REGISTER
EA	EXHAUST AIR	SS	STAINLESS STEEL
EF	EXHAUST FAN	T	THERMOSTAT
EG	EXHAUST GRILLE	TG	TRANSFER GRILLE
ENC	ENCLOSURE	TOD	TOP OF DUCT
ER	EXHAUST REGISTER	TOP	TOP OF PIPE
(ER)	EXISTING IN NEW LOCATION	TTS	TIGHT TO STEEL
ETR	EXISTING TO REMAIN	TYP	TYPICAL
EX	EXHAUST FAN	UH	UNIT HEATER
FBO	FURNISHED BY OWNER	UIC	UP IN CHASE
FBP	FACE AND BYPASS	UIW	UP IN WALL
FC	FLEXIBLE CONNECTION	VAV	VARIABLE AIR VOLUME BOX
FD	FIRE DAMPER	VB	VACUUM BREAKER
FG	FIBERGLASS	VCF	VALVED AND CAPPED FOR FUTURE
F & T	FLOAT AND THERMOSTATIC	VD	MANUAL VOLUME DAMPER
FO	FLOAT OVAL	VIF	VERIFY IN FIELD
FTR	FINNED TUBE RADIATION	VTR	VENT THRU ROOF
FS	FLOW SWITCH	W	WITH
FSD	COMBINATION FIRE/SMOKE DAMPER	WEG	WALL EXHAUST GRILLE
G.C.	GENERAL CONTRACTOR	WSG	WALL SUPPLY GRILLE
GPM	GALLONS PER MINUTE	WRG	WALL RETURN GRILLE
HB	HOSE BIB	WMS	WIRE MESH SCREEN

**AIR DISTRIBUTION SYMBOLS**

	RECTANGULAR DUCT (FIRST NUMBER IS SIDE SHOWN) DIMENSION IN INCHES.
	ROUND DUCT
	MOTORIZED DAMPER
	FLEXIBLE DUCT
	FLEXIBLE DUCT CONNECTOR (FC)
	DUCT DROPS AND RISES IN DIRECTION OF AIR FLOW
	RETURN DUCT TURNED UP OR DOWN (DASHED)
	SUPPLY DUCT TURNED UP OR DOWN (DASHED)
	EXHAUST DUCT TURNED UP OR DOWN (DASHED)
	ACOUSTICAL LINING (DUCT DIM. FOR NET FREE AREA)
	ROUND DUCT ELBOW DOWN
	ROUND DUCT ELBOW UP
	SQUARE TO ROUND TRANSITION
	POINT OF CHANGE IN DUCT CONSTRUCTION BY STATIC PRESSURE CLASS. THE NUMBER ASSIGNS PRESSURE CLASS (IN. OF WATER) WHICH WILL ACCOMMODATE MAXIMUM OPERATING PRESSURE. THE ASSIGNMENT UNTIL THE DUCT TERMINATES OR ANOTHER SYMBOL APPEARS. A "N" SUPERScript INDICATES NEGATIVE PRESSURE.
	CAP (DUCT AND/OR PIPE)
	INDICATES DUCT, PIPING, EQUIPMENT TO BE REMOVED.
	EXHAUST AIR
	RETURN AIR
	SUPPLY AIR
	VOLUME DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	VANED ELBOW (PROVIDE FOR ALL SQUARE OR RECTANGULAR ELBOWS EVEN IF SYMBOL MISSING.)
	VANED ELBOW (SHORT RADIUS) NOTE: ADJUSTABLE ELBOWS ARE NOT ALLOWED.
	DIRECTION OF AIR FLOW (IN)
	DIRECTION OF AIR FLOW (OUT)
	HUMIDISTAT OR HUMIDITY SENSOR
	THERMOSTAT (TSTAT) OR TEMP. SENSOR
	BACS SENSOR (COMBINATION TEMP, CO2 & OCC)
	SMOKE DETECTOR
	CEILING RETURN GRILLE
	CEILING SUPPLY DIFFUSER
	CEILING EXHAUST DIFFUSER
	DYNAMIC PRESSURE SENSOR
	DIFFERENTIAL PRESSURE MONITOR
	OCCUPANCY SENSOR

**MISCELLANEOUS SYMBOLS**

	DIFFUSER, REGISTER OR GRILLE TAG
	CFM AIR FLOW
	FINNED TUBE TAG
	LENGTH OF FINNED ELEMENT
	DETAIL NUMBER
	SHEET NUMBER WHERE DETAIL IS LOCATED
	EQUIPMENT TAG
	CONNECT TO EXISTING/LIMITS OF DEMOLITION
	LIMITS OF DEMOLITION

**PIPING SYMBOLS**

	UNION
	FLANGE
	PIPE ANCHOR
	PIPE GUIDE OR SLEEVES
	PIPE ELBOW TURNED DOWN
	PIPE ELBOW TURNED UP
	PIPE TEE DOWN
	PIPE TEE UP
	PIPE PITCHES DOWN
	GENERIC VALVE. SEE SPECIFICATIONS FOR TYPE
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE (MANUAL)
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	CALIBRATED BALANCING VALVE (CIRCUIT SETTER)
	AUTOMATIC FLOW CONTROL VALVE
	CHECK VALVE
	BACK FLOW PREVENTER
	GLOBE VALVE
	NEEDLE VALVE
	PLUG VALVE
	SOLENOID VALVE
	PRESSURE REDUCING OR REGULATING VALVE
	PRESSURE RELIEF VALVE
	STRAINER
	STRAINER WITH BLOWDOWN
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	PRESSURE SWITCH
	FLOW SWITCH
	PRESSURE GAUGE AND COCK
	THERMOMETER AND WELL
	TEMPERATURE & PRESSURE TAP (PETE'S PLUG)
	ORIFICE FLOWMETER
	FLEXIBLE PIPE CONNECTOR
	EXPANSION JOINT
	STEAM TRAP (FLOAT AND THERMOSTATIC INDICATED T.T. THERMOSTAT, B.T. BUCKET TRAP, T.D. THERMODYNAMIC TRAP)
	CONCENTRIC REDUCER/INCREASER
	ECCENTRIC REDUCER/INCREASER
	VACUUM BREAKER
	PUMP

**DEMOLITION LEGEND**

	EXISTING/EXISTING TO REMAIN (GRAYSCALE)
	EXISTING TO BE REMOVED
	PROPOSED EQUIPMENT
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	EXISTING TO BE RELOCATED

**GENERAL MECHANICAL NOTES**

- IT IS THE INTENT OF THESE DRAWINGS TO SHOW COMPLETE AND FUNCTIONAL SYSTEMS THAT ARE IN COMPLIANCE WITH ALL INDUSTRY STANDARDS AND APPLICABLE CODES. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ENGINEER'S ATTENTION.
- ALL MECHANICAL SYSTEMS WORK SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION AND ALL APPLICABLE CODES. ALL WORK SHALL CONFORM TO EQUIPMENT MANUFACTURER'S INSTRUCTIONS AND INDUSTRY STANDARDS.
- ALL WORKMANSHIP SHALL BE OF THE HIGHEST STANDARDS. INSTALL ALL WORK IN A NEAT, SYSTEMATIC AND ORDERLY ARRANGEMENT. ALL MATERIAL SHALL BE NEW AND OF THE BEST QUALITY AVAILABLE, FREE FROM DEFECTS. THE CONTRACTOR SHALL GUARANTEE THE MATERIALS AND INSTALLATION FOR ONE YEAR FROM THE PROJECT ACCEPTANCE DATE AGAINST ANY DEFECTS DUE TO FAULTY MATERIALS, EQUIPMENT, WORKMANSHIP, OR INSTALLATION. UPON NOTICE OF THE DEFECT, THE CONTRACTOR SHALL REPLACE OR REPAIR THE DEFECTIVE ITEM AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL VISIT THE JOB SITE TO VERIFY ALL EXISTING FIELD CONDITIONS, DIMENSIONS AND OBSTRUCTIONS.
- ALL PIPING AND DUCTWORK IS SHOWN DIAGRAMMATICALLY. PIPING AND SYSTEMS SHALL FOLLOW ARRANGEMENT AS MUCH AS POSSIBLE, HOWEVER, ACTUAL FIELD CONDITIONS SHALL DICTATE. CAREFULLY COORDINATE THE SPACE REQUIREMENTS AND LOCATIONS OF ALL DUCTWORK WITH ALL OTHER TRADES. GIVE PRIORITY TO GRAVITY DRAINAGE PIPING.
- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLAN FOR EXACT LOCATION OF WALLS, DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE WORK OF ALL OTHER TRADES. SHOULD ANY DISCREPANCIES BE DISCOVERED IN ANY OF THE BID DOCUMENTS, (INCLUDING ALL OTHER DIVISIONS) THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER BEFORE PROCEEDING ANY FURTHER WITH THE WORK. OTHERWISE THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COST INVOLVED WITH THE CORRECTION OF THE CONSTRUCTION INSTALLATION.
- ALL EQUIPMENT, DUCTWORK, PIPING, ETC. SHALL BE SUPPORTED FROM THE BUILDING'S STRUCTURAL FRAME AND MEMBERS. ALL DUCT SIZES ARE NET DIMENSIONS AND DO NOT INCLUDE AND INSULATION, SUPPORT OR REINFORCEMENT DIMENSIONS. ALL WORK SHALL BE NEW UNLESS OTHERWISE NOTED AS EXISTING.
- THE CONTRACTOR SHALL PERFORM TESTS ON ALL MECHANICAL SYSTEMS AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS. ALL TESTS SHALL BE WITNESSED AND ACCEPTED BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL PROVIDE ALL SERVICES AND MATERIALS REQUIRED BY THE TEST AND CERTIFY IN WRITING THAT ALL WORK HAS PASSED ALL REQUIRED TESTS.
- THE MECHANICAL SYSTEMS SHALL BE BALANCED, COMPLETE WITH A WRITTEN REPORT BY AN INDEPENDENT AIR BALANCE FIRM WITH A MINIMUM OF 3 YEARS EXPERIENCE.
- WHERE PIPES AND DUCTS PENETRATE WALLS OR FLOOR, THE SPACE BETWEEN THE STRUCTURE AND THE DUCT OR PIPE SHALL BE SEALED AIRTIGHT WITH AN APPROVED MATERIAL. PROVIDE FIRE STOPS AND/OR SEALANT AROUND ALL PENETRATIONS THAT HAVE A FIRE RATING GREATER THAN OR EQUAL TO THE FIRE RATING OF THE WALL, FLOOR OR ENCLOSURE.
- PROVIDE ACCESS PANELS FOR ALL VALVES, DAMPERS, CLEANOUTS, ETC. THAT REQUIRE ACCESS.

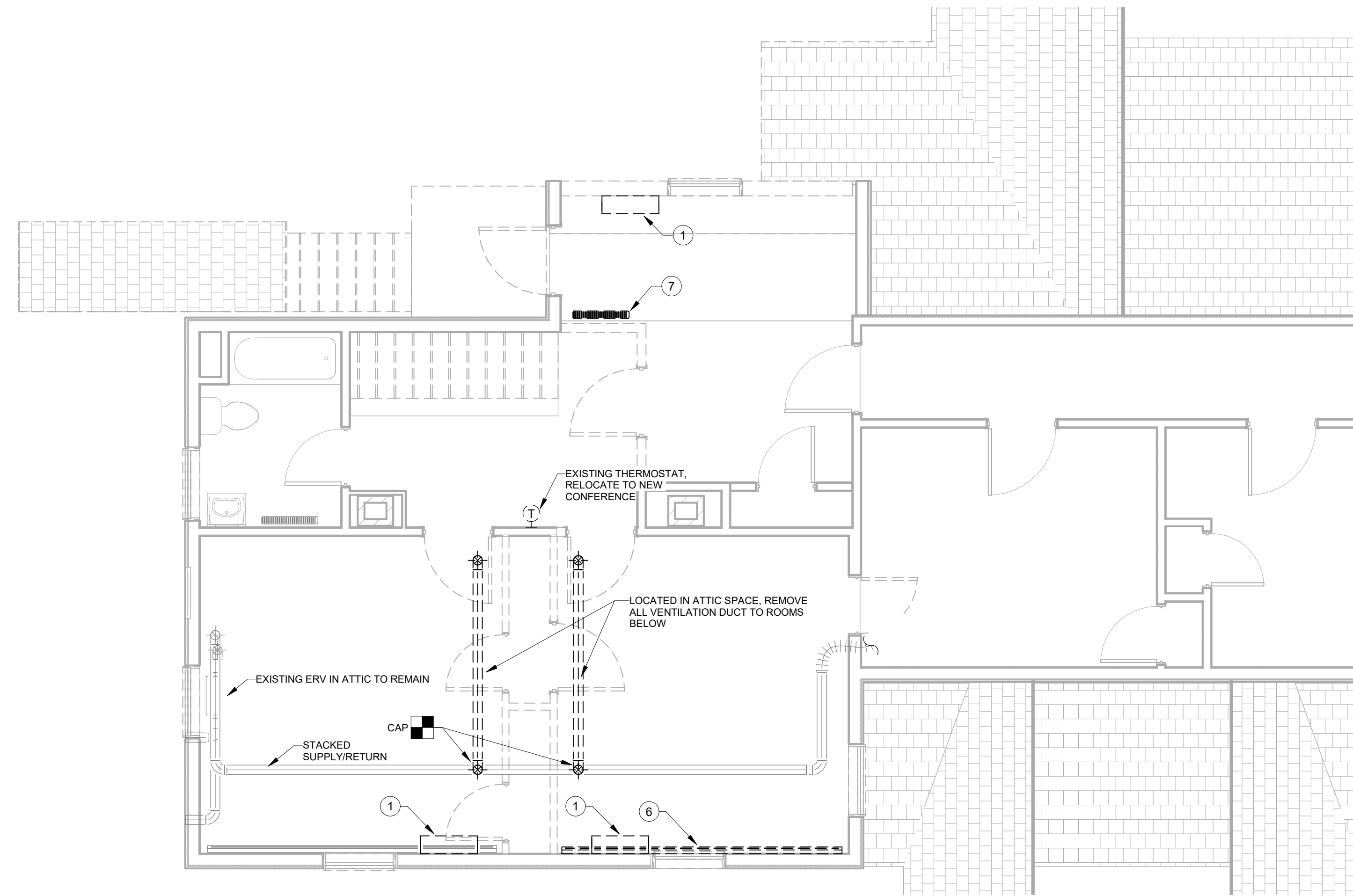
**GAS PIPING NOTES**

- ALL PROPANE GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FUEL GAS CODE NFPA54 AND ALL LOCAL AND STATE OF MAINE REQUIREMENTS.
- PIPING SHOWN IS BASED ON A LOW PRESSURE (11" W.G.) GAS SYSTEM.
- PIPING SHALL BE YELLOW PLASTIC COATED COPPER TUBING, RATED FOR EXTERIOR AND DIRECT BURIAL USE.
- PIPING SHALL BE SUPPORTED FROM MIFAB C RUBBER SUPPORT SERIES OR APPROVED ALTERNATIVE. A MINIMUM OF 6'-0" ON CENTER. PIPING SHALL BE A MINIMUM OF 6" ABOVE ROOF AND PITCHED TOWARDS THE ENTRANCE AT 1/4" PER 15'-0".
- PRIOR TO PLACING SYSTEM IN SERVICE PIPING MUST BE TESTED IN ACCORDANCE WITH NFPA 54.

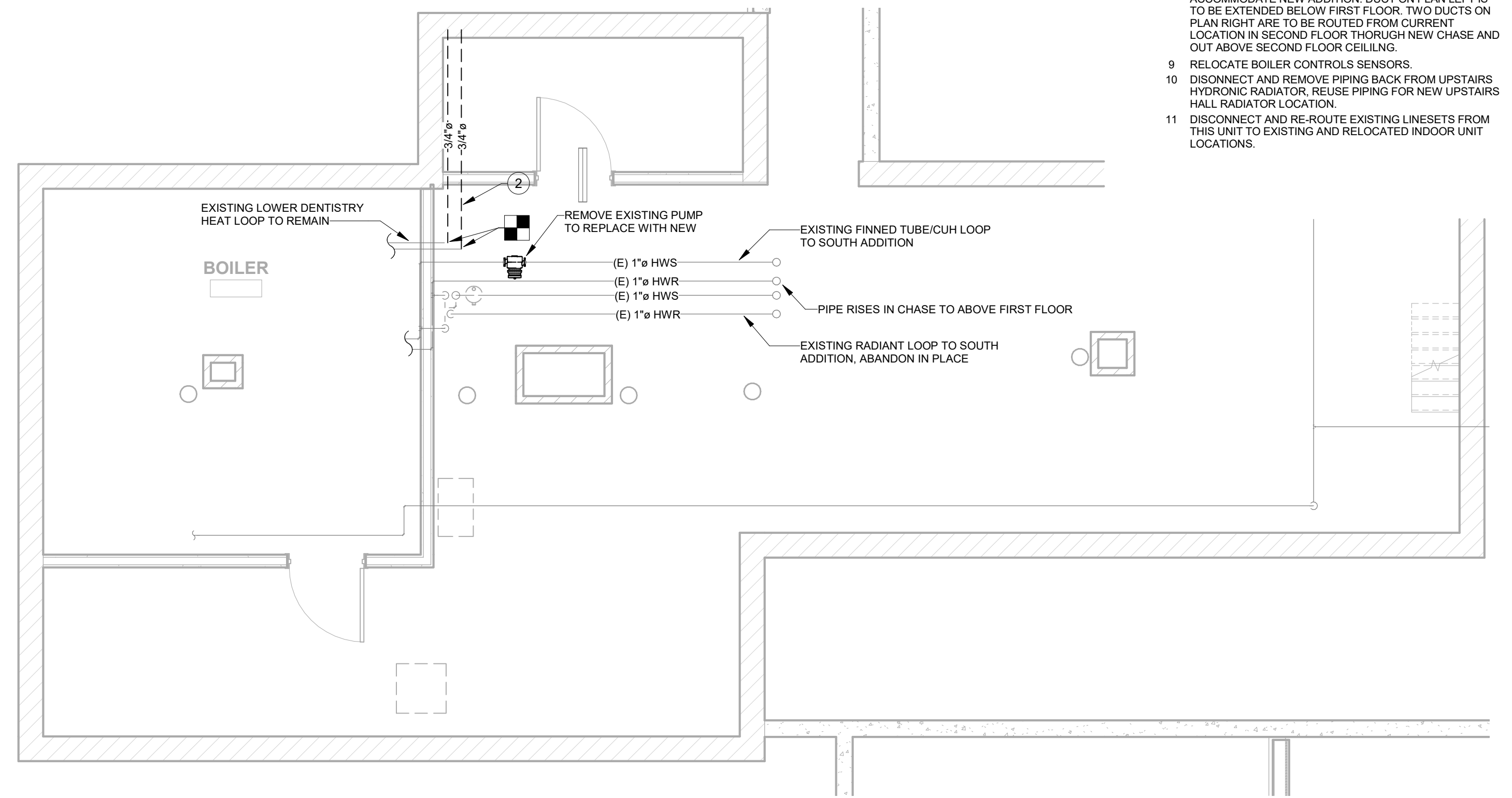
**SHEET LIST - MECHANICAL**

<b>M-001</b>	<b>MECHANICAL NOTES, SYMBOLS &amp; ABBREVIATIONS</b>
<b>M-101</b>	<b>MECHANICAL DEMO PLANS - NORTH</b>
<b>M-102</b>	<b>MECHANICAL DEMO PLANS - SOUTH</b>
<b>M-201</b>	<b>MECHANICAL DUCTWORK PLANS - NORTH</b>
<b>M-202</b>	<b>MECHANICAL DUCTWORK PLANS - SOUTH</b>
<b>M-301</b>	<b>MECHANICAL PIPING PLANS - NORTH</b>
<b>M-302</b>	<b>MECHANICAL PIPING PLANS - SOUTH</b>
<b>M-501</b>	<b>MECHANICAL DETAILS</b>
<b>M-601</b>	<b>MECHANICAL SCHEDULES &amp; SEQUENCE OF OPERATIONS</b>

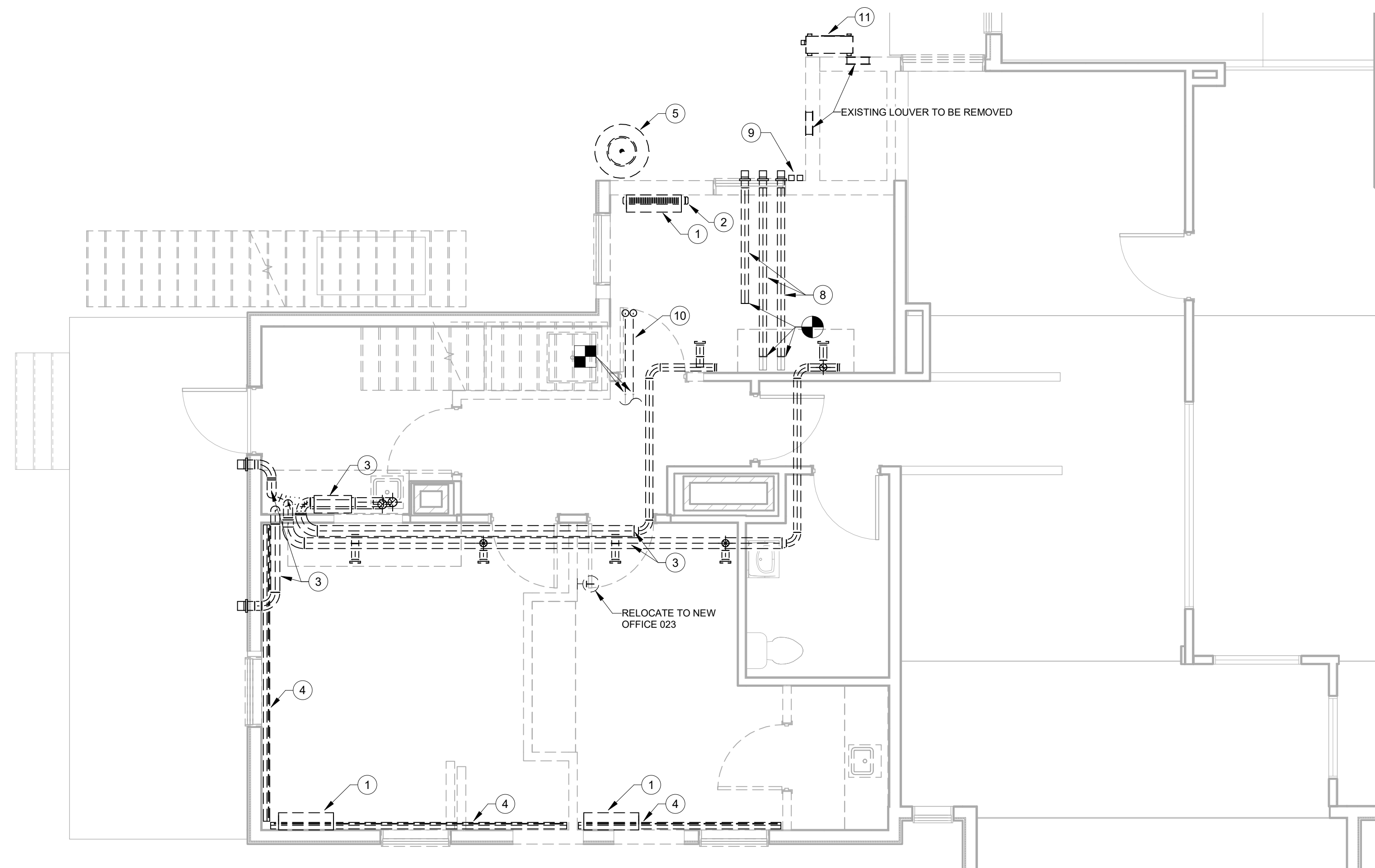
REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824		
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>MECHANICAL NOTES, SYMBOLS &amp; ABBREVIATIONS</b>				
DATE		2022.08.15	SCALE	
			As indicated	
DRAWN BY	JNB	DESIGNED BY	JNB	CHECKED BY
				JMM
PROJECT No.				
11395.013				
DRAWING No.				
<b>M-001</b>				
REV				



2 SECOND FLOOR MECHANICAL DEMO PLAN - NORTH  
M-101 SCALE: 1/4" = 1'-0"



3 BASEMENT MECHANICAL DEMO PLAN  
M-101 SCALE: 1/4" = 1'-0"



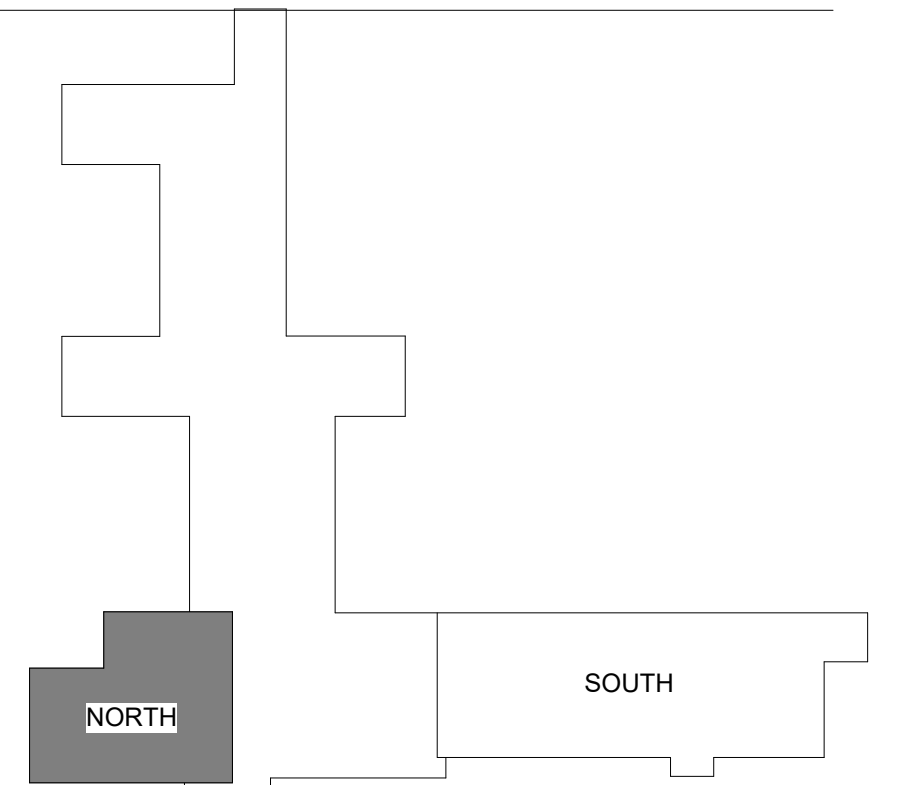
1 FIRST FLOOR MECHANICAL DEMO PLAN - NORTH  
M-101 SCALE: 1/4" = 1'-0"

**MECHANICAL DEMOLITION NOTES**

1. EXISTING LINESET PENETRATIONS THAT ARE RELOCATED SHALL BE PATCHED TO MATCH SURROUNDING BUILDING CONSTRUCTION.
2. INDOOR UNITS TO BE RELOCATED AND REUSED SHALL BE COMPLETELY RECONNECTED TO COMPLETE INTENT OF NEW WORK. PROVIDE NEW CONDENSATE DRAINS, LINESETS, AND ELECTRICAL CIRCUITING AS REQUIRED.
3. EXISTING HYDRONIC HEATING LOOPS SHALL BE MODIFIED AS REQUIRED TO COMPLETE INTENT OF NEW WORK. PROVIDE AND INSTALL ALL VALVING AND PIPING TO COMPLETE HEATING LOOPS.
4. RELOCATED NEW PUMP AND ZONE VALVE CONTROLS SHALL BE RECONNECTED TO COMPLETE SCOPE OF NEW WORK.

**SHEET M-101 NUMBERED NOTES**

1. REMOVE AND RELOCATE EXISTING HEAT PUMP EVAP UNIT. SEE NEW HVAC PLANS FOR NEW LOCATIONS.
2. REMOVE HYDRONIC RADIATOR AND PIPING BACK AS FAR AS PRACTICAL. PIP ETO NEW FINNED TUBE, REUSE AND RELOCATE EXISTING THERMOSTAT.
3. REMOVE ERV AND ALL ASSOCIATED DUCTWORK/AIR TERMINALS IN THEIR ENTIRETY. RETURN UNIT TO OWNER.
4. REMOVE EXISTING HYDRONIC FINNED TUBE TO REPLACE WITH NEW.
5. RELOCATE EXISTING GENERATOR PROPANE STORAGE TANK AND RE-ROUTE PIPING.
6. REMOVE EXISTING BASEBOARD AND RELOCATE TO PLAN LEFT TO AVOID NEW DUCT CHASE. SEE NEW PLANS FOR NEW LOCATION.
7. REMOVE EXISTING HYDRONIC RADIATOR. REMOVE PIPING BACK AND RELOCATE TO NEW UPSTAIRS HALL LOCATION.
8. REMOVE WALL CAP AND DUCTWORK SO FAR BACK AS PRACTICAL. RE-ROUTE AND REINSTALL TO ACCOMMODATE NEW ADDITION. DUCT ON PLAN LEFT IS TO BE EXTENDED BELOW FIRST FLOOR. TWO DUCTS ON PLAN RIGHT ARE TO BE ROUTED FROM CURRENT LOCATION IN SECOND FLOOR THOROUGH NEW CHASE AND OUT ABOVE SECOND FLOOR CEILING.
9. RELOCATE BOILER CONTROLS SENSORS.
10. DISCONNECT AND REMOVE PIPING BACK FROM UPSTAIRS HYDRONIC RADIATOR. REUSE PIPING FOR NEW UPSTAIRS HALL RADIATOR LOCATION.
11. DISCONNECT AND RE-ROUTE EXISTING LINESETS FROM THIS UNIT TO EXISTING AND RELOCATED INDOOR UNIT LOCATIONS.



KEYPLAN

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				

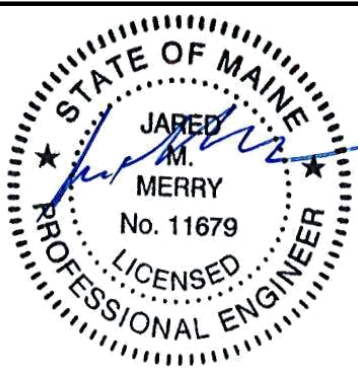
**HALEY WARD**  
ENGINEERING | ENVIRONMENTAL | SURVEYING  
One Merchants Plaza, Suite 701  
Bangor, Maine 04401  
207.989.4824  
WWW.HALEYWARD.COM

**HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION  
HARRINGTON, MAINE**

**MECHANICAL DEMO PLANS - NORTH**

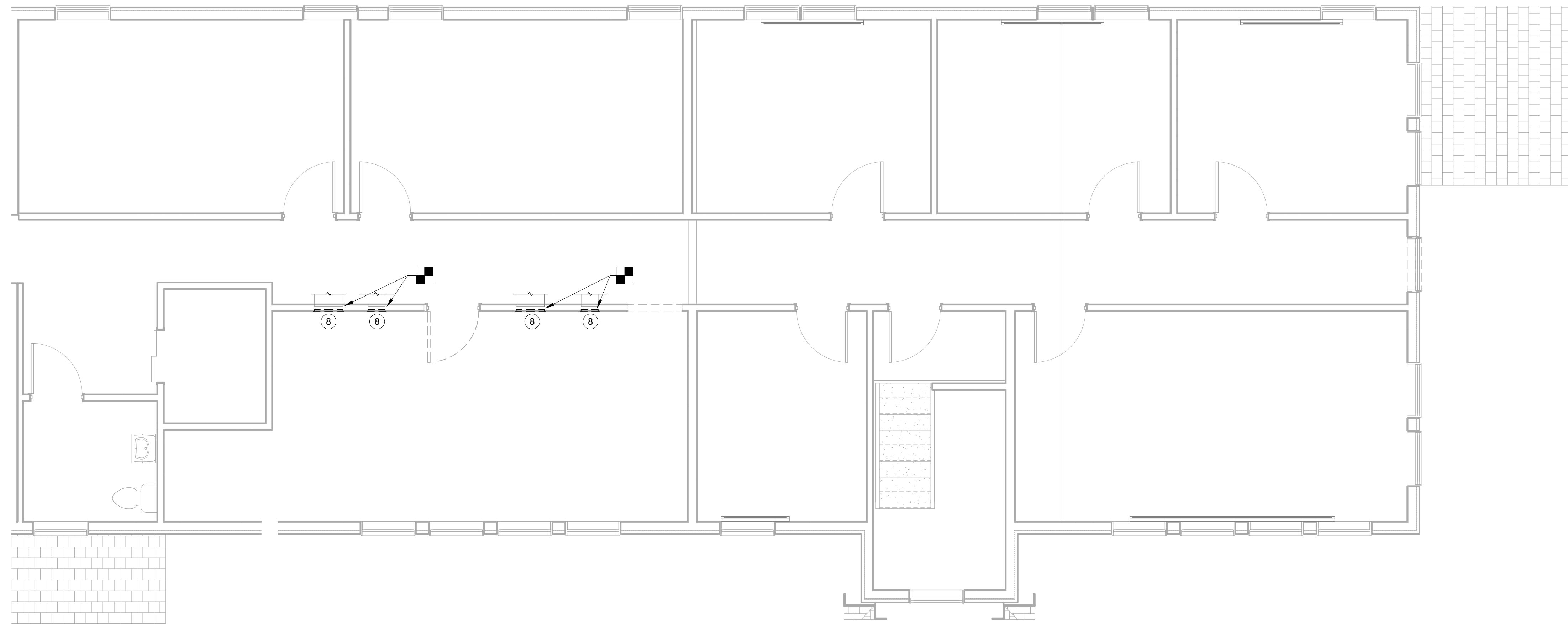
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CHECKED BY	JMM	PROJECT No.	11395.013
DRAWING No.	REV		

**M-101**

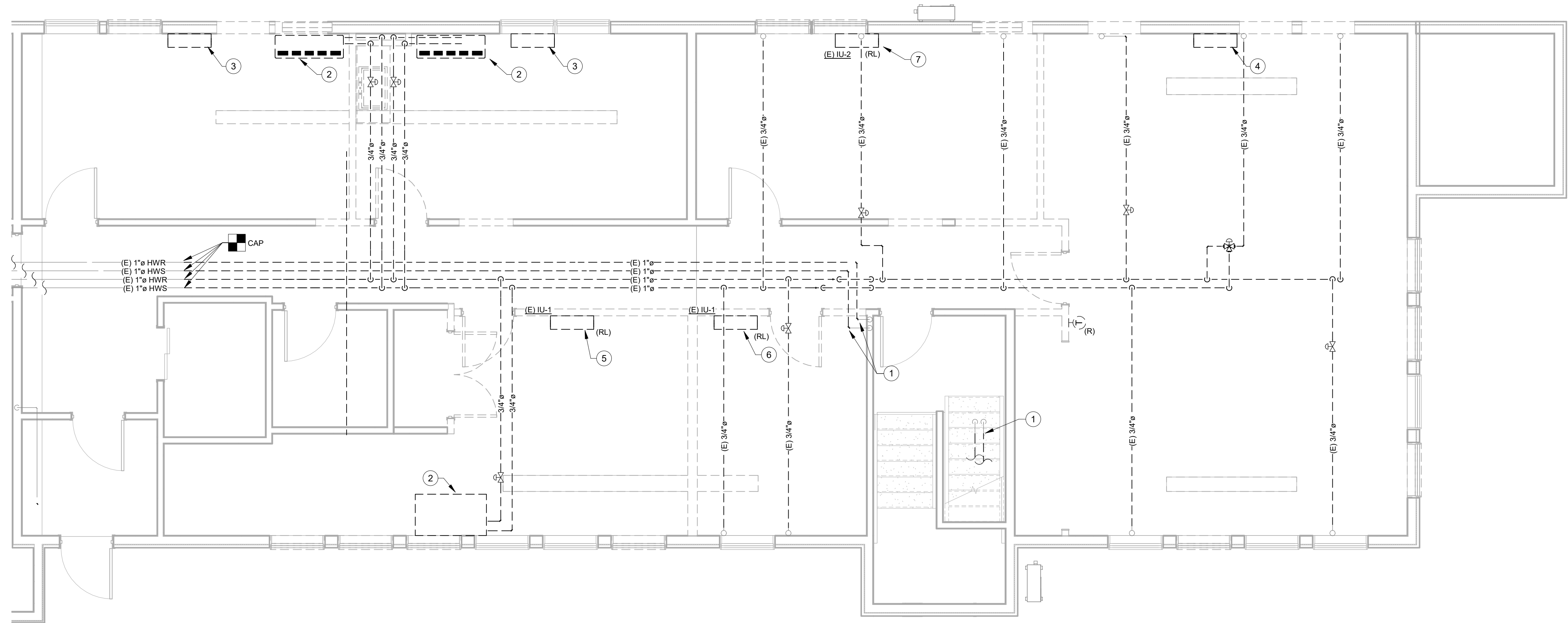


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2 SECOND FLOOR MECHANICAL DEMO PLAN - SOUTH  
SCALE: 1/4" = 1'-0"



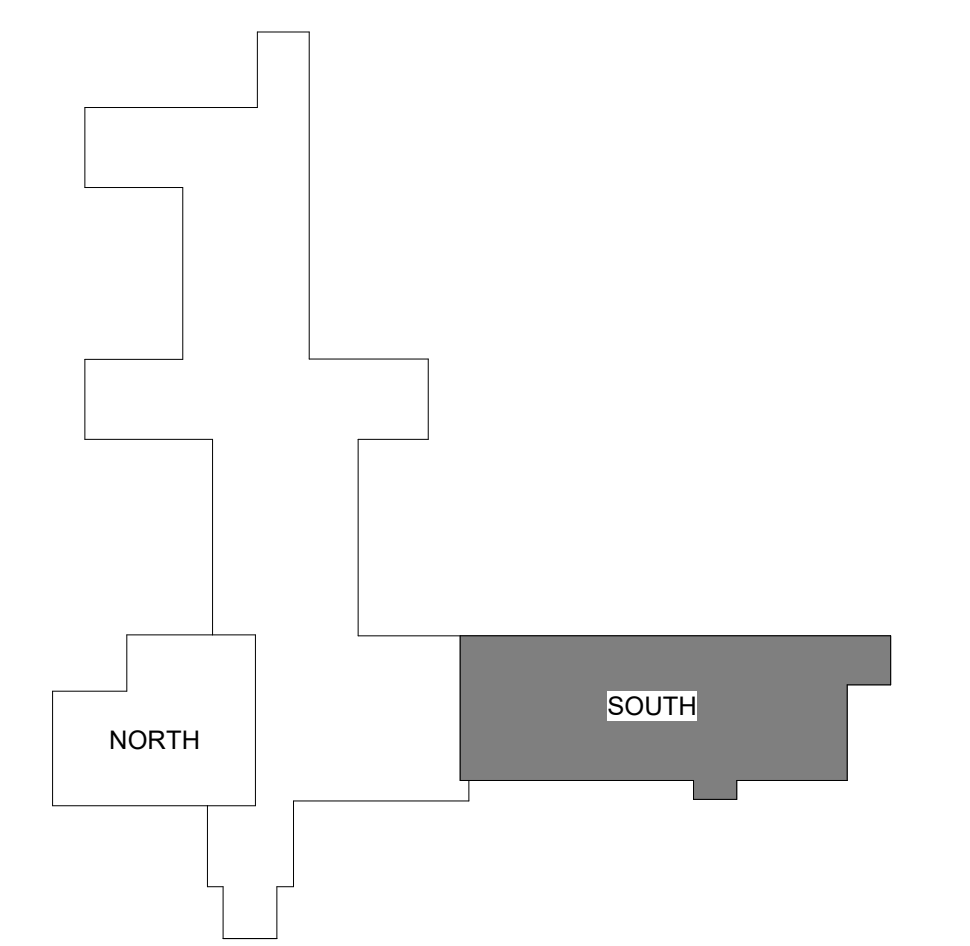
1 FIRST FLOOR MECHANICAL DEMO PLAN - SOUTH  
SCALE: 1/4" = 1'-0"

**SHEET M-102 NUMBERED NOTES** #


- 1 CUT AND CAP EXISTING RADIANT HWS AND HWR LINES NEAR PENETRATION THROUGH SLAB TO DISCONTINUE RADIANT SYSTEM.
- 2 REMOVE EXISTING CABINET UNIT HEATER IN ITS ENTIRETY. REMOVE PIPING AS FAR BACK AS PRACTICAL AND CAP.
- 3 EXISTING HEAT PUMP EVAP. UNIT, RELOCATE LOWER ON WALL TO BELOW NEW DROP CEILING REROUTE AND RECONNECT LINESET, CONDENSATE DRAIN AND ELECTRICAL AS REQUIRED.
- 4 EXISTING HEAT PUMP EVAP. UNIT, REMOVE AND RETURN TO OWNER.
- 5 REMOVE AND RELOCATE HEAT PUMP INDOOR UNIT FROM THIS ROOM TO NEW ROOM STERILIZATION 004, REROUTE ALL LINESET & ELECTRICAL.
- 6 REMOVE AND RELOCATE HEAT PUMP INDOOR UNIT FROM THIS ROOM TO NEW ROOM OFFICE 005, REROUTE ALL LINESET & ELECTRICAL.
- 7 REMOVE AND RELOCATE HEAT PUMP INDOOR UNIT FROM THIS ROOM TO NEW ROOM OPERATORY 007, REROUTE ALL LINESET & ELECTRICAL.
- 8 REMOVE EXISTING REGISTERS/GRILLES.

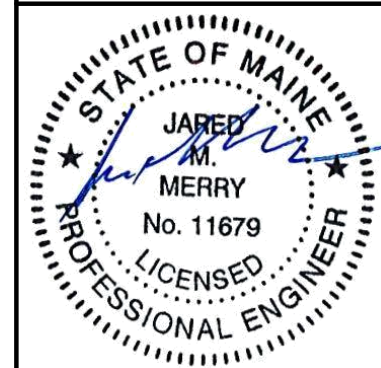
**MECHANICAL DEMOLITION NOTES**

1. EXISTING LINESET PENETRATIONS THAT ARE RELOCATED SHALL BE PATCHED TO MATCH SURROUNDING BUILDING CONSTRUCTION.
2. INDOOR UNITS TO BE RELOCATED AND REUSED SHALL BE COMPLETELY RECONNECTED TO COMPLETE INTENT OF NEW WORK. PROVIDE NEW CONDENSATE DRAINS, LINESETS, AND ELECTRICAL CIRCUITING AS REQUIRED.
3. EXISTING HYDRONIC HEATING LOOPS SHALL BE MODIFIED AS REQUIRED TO COMPLETE INTENT OF NEW WORK. PROVIDE AND INSTALL ALL VALVING AND PIPING TO COMPLETE HEATING LOOPS.
4. RELOCATED NEW PUMP AND ZONE VALVE CONTROLS SHALL BE RECONNECT TO COMPLETE SCOPE OF NEW WORK.

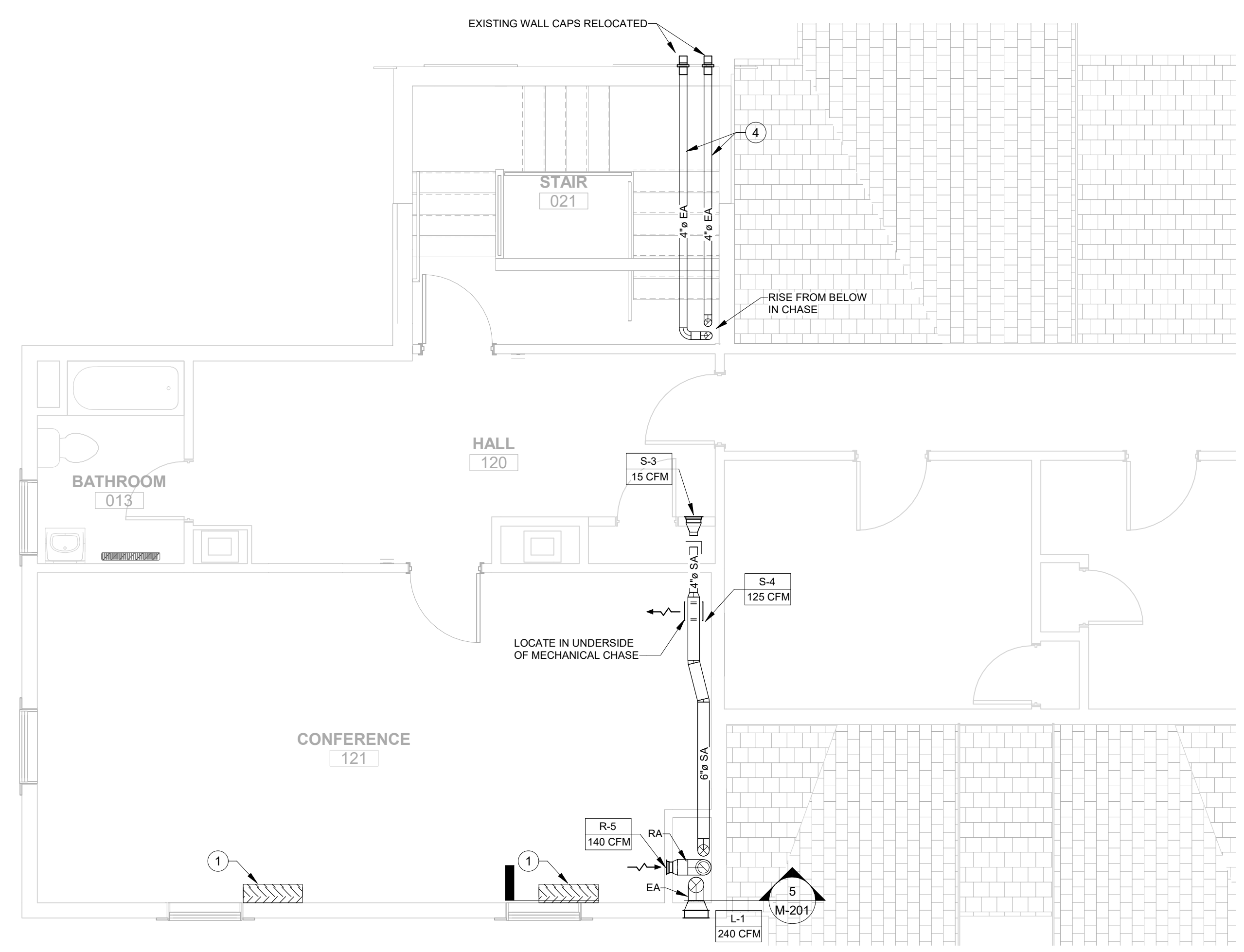


KEYPLAN

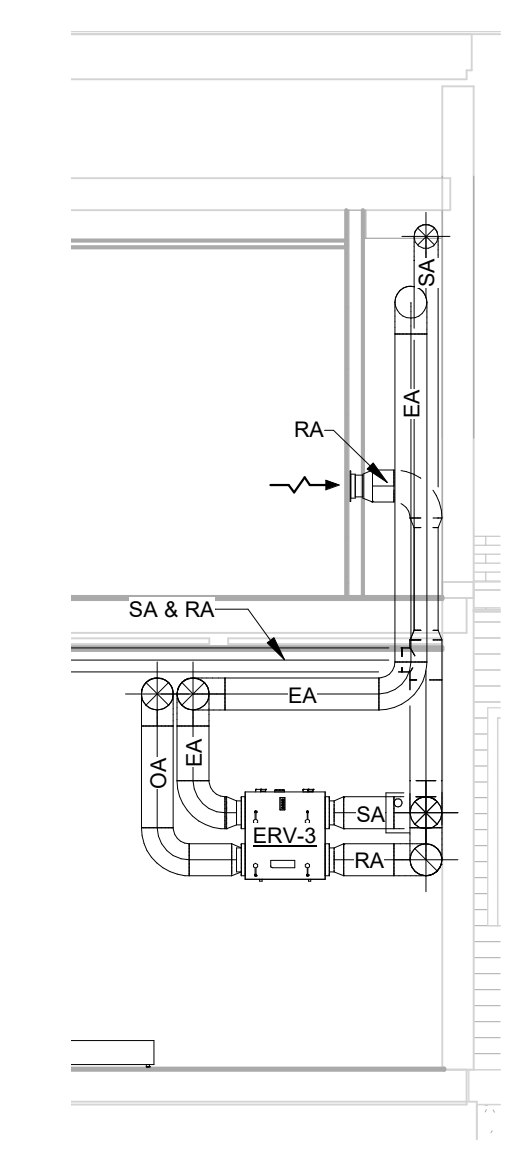
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DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING		
One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.789.4824				
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>MECHANICAL DEMO PLANS - SOUTH</b>				
DATE		2022.08.15	SCALE	
			As indicated	
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				JMM
PROJECT No.		11395.013		
DRAWING No.		<b>M-102</b>		



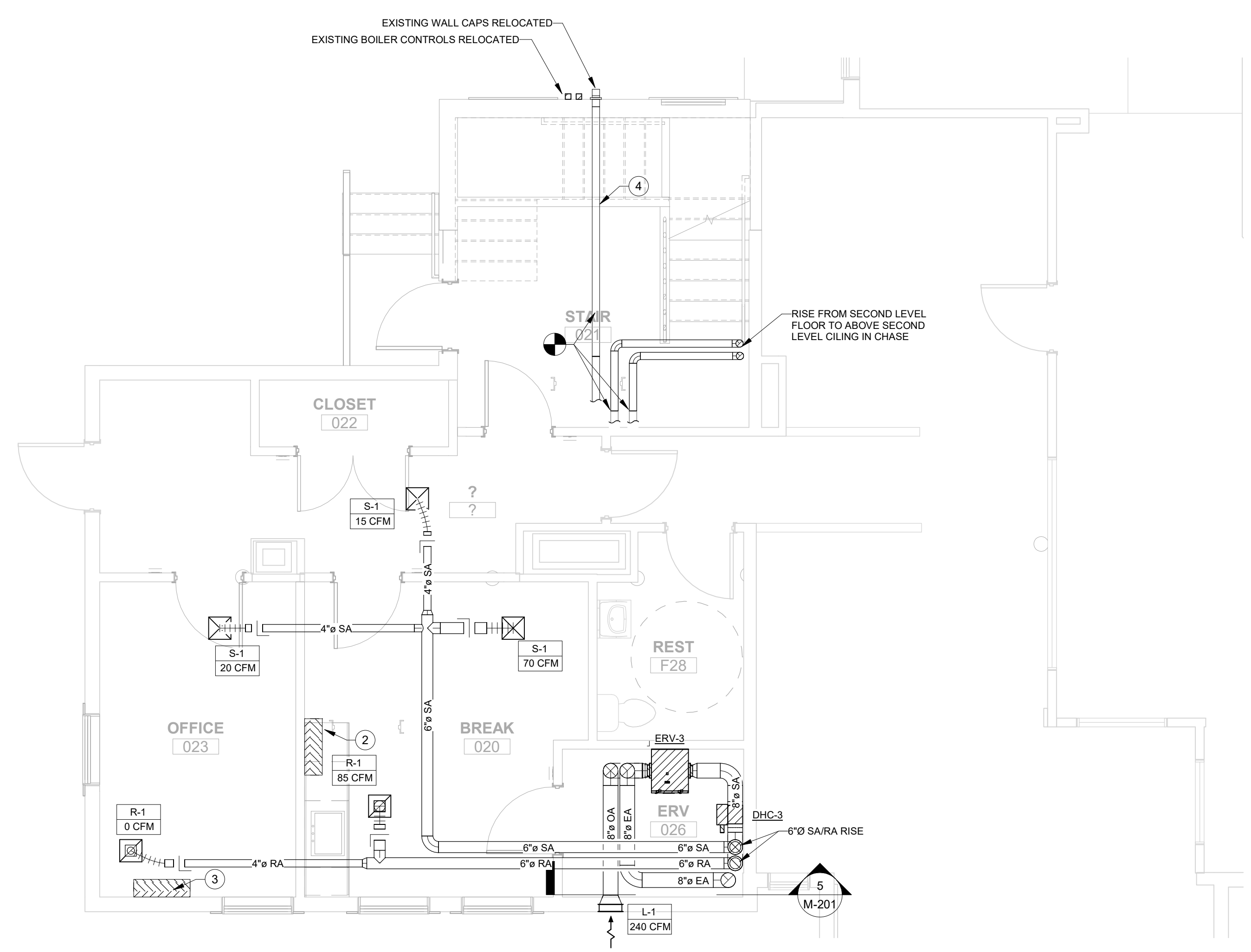
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1 SECOND FLOOR MECHANICAL HVAC PLAN - NORTH  
SCALE: 1/4" = 1'-0"



5 ERV-3 SECTION  
SCALE: 1/4" = 1'-0"



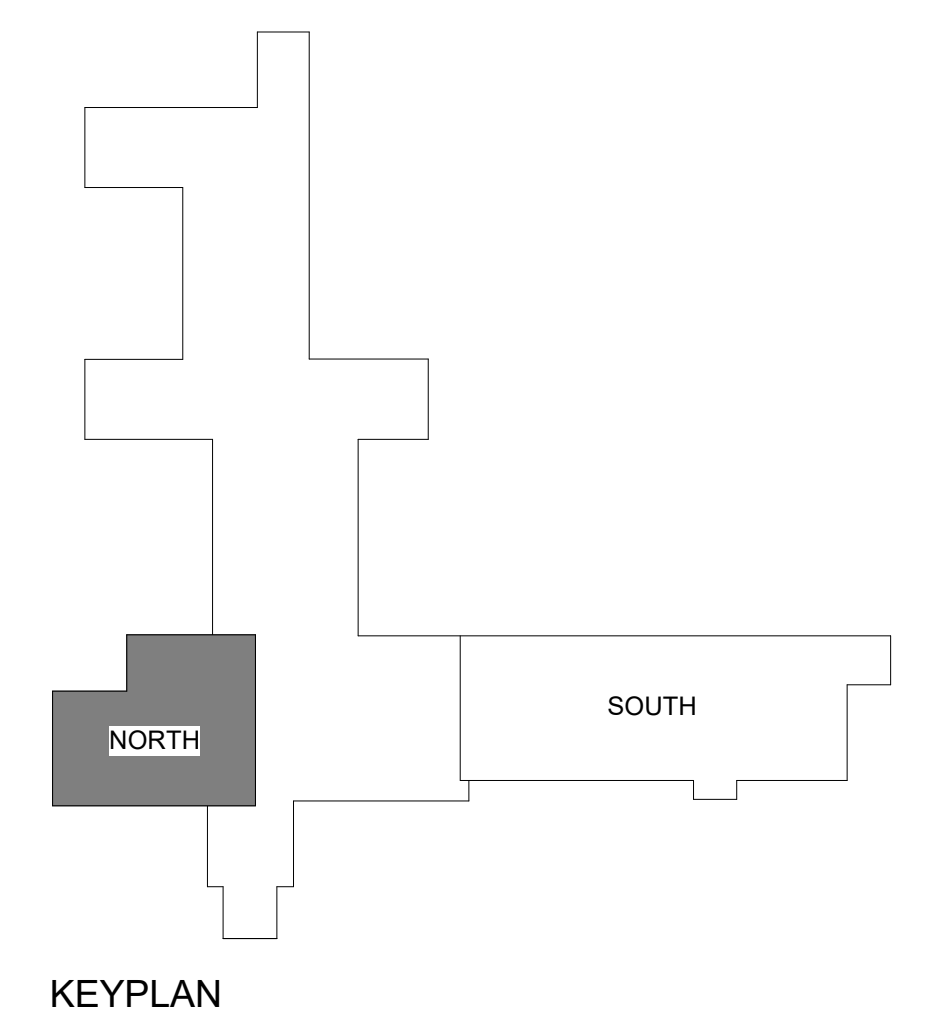
2 FIRST FLOOR MECHANICAL HVAC PLAN - NORTH  
SCALE: 1/4" = 1'-0"


**HVAC GENERAL NOTES**

1. ALL MITERED ELBOWS AND T'S SHOWN IN DUCT SYSTEMS SHALL HAVE TURNING VANES.

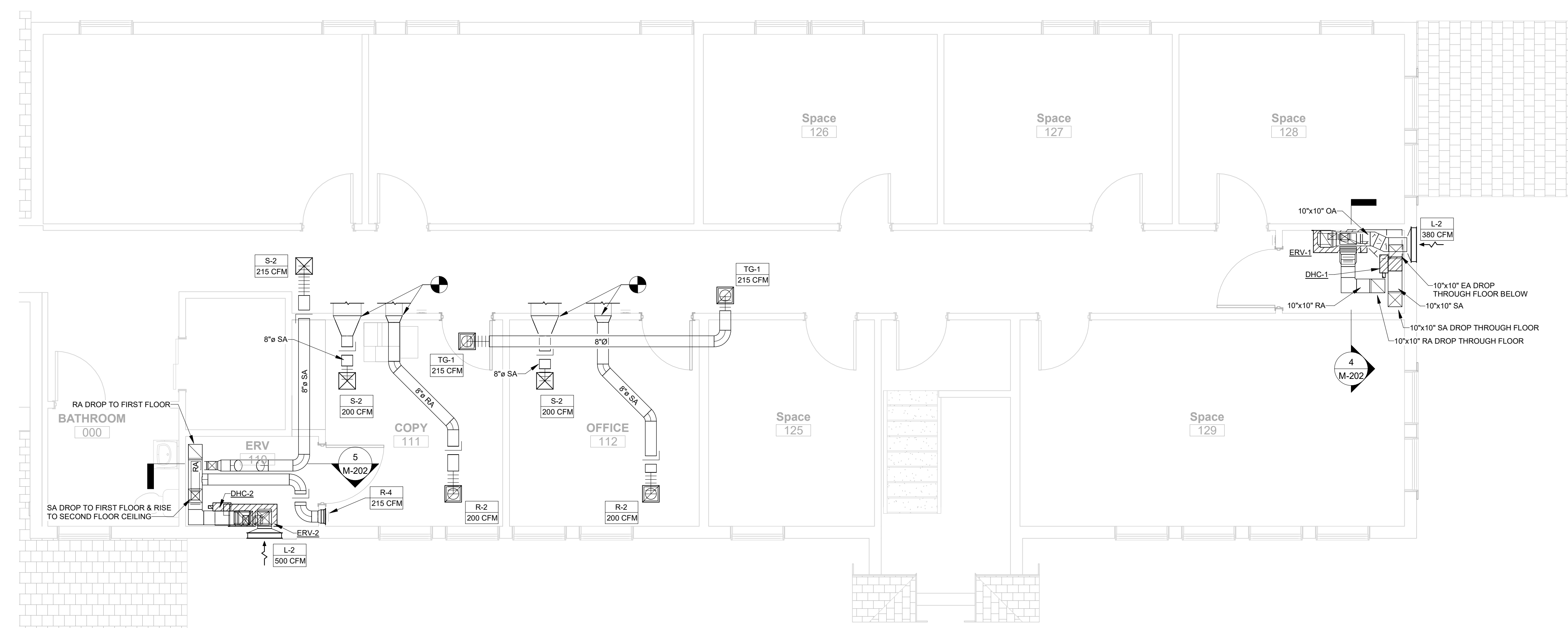
**SHEET M-201 NUMBERED NOTES** #

1. EXISTING HEAT PUMP EVAP UNIT RELOCATED AS REQUIRED FOR NEW DROP CEILING/CONFERENCE ROOM CONSTRUCTION.
2. EXISTING HEAT PUMP EVAP. UNIT, TO NEW WALL IN THE SAME ROOM AS PREVIOUSLY INSTALLED. REROUTE AND RECONNECT ALL LINESETS, CONDENSATE DRAIN AND ELECTRICAL AS REQUIRED.
3. EXISTING HEAT PUMP EVAP. UNIT, RELOCATE LOWER ON WALL TO BELOW NEW DROP CEILING. RE-ROUTE AND RECONNECT ALL LINESETS, CONDENSATE DRAIN AND ELECTRICAL AS REQUIRED.
4. MODIFY AND REROUTE DUCTWORK TO NEW WALLCAP LOCATIONS.

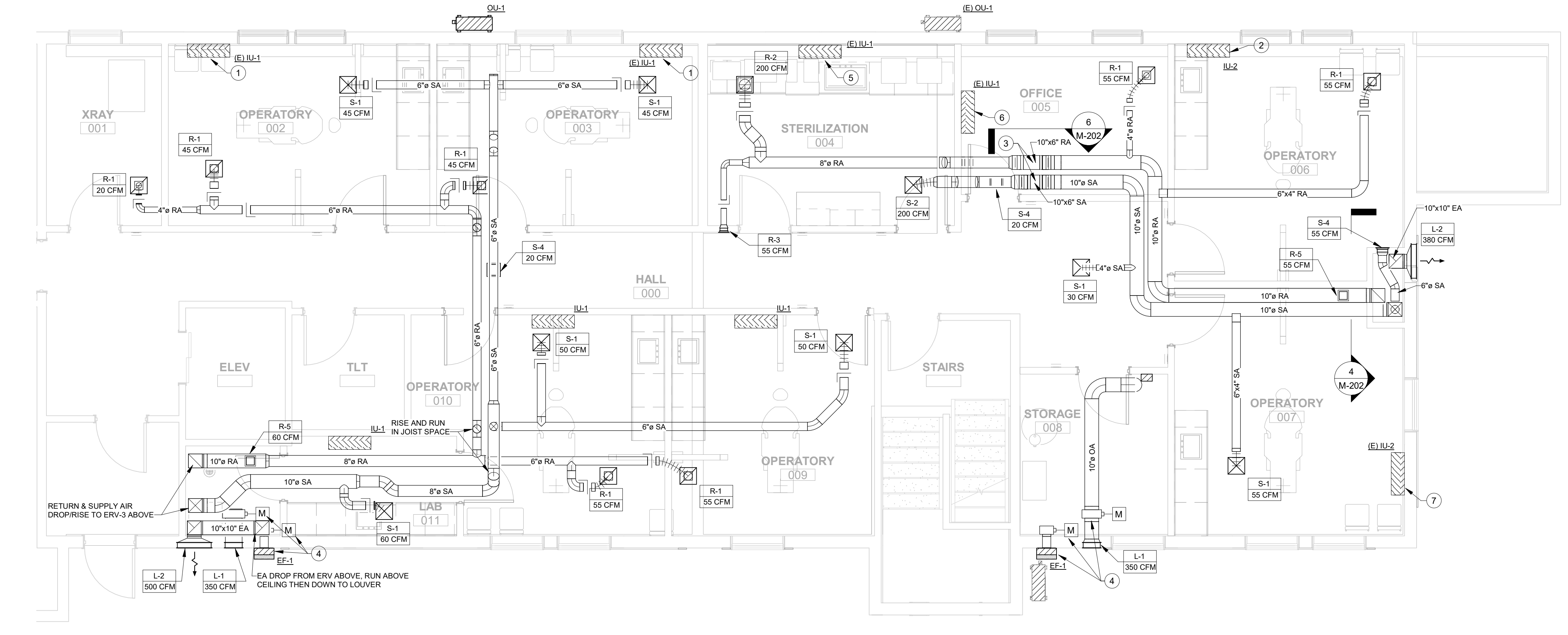


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<b>BID DOCUMENTS DECEMBER 19, 2022</b>		
 <b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 <a href="http://WWW.HALEYWARD.COM">WWW.HALEYWARD.COM</a>		
PROJECT		
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>		
TITLE		
<b>MECHANICAL DUCTWORK PLANS - NORTH</b>		
DATE	2022.08.15	SCALE
		As indicated
DRAWN BY	JNB	DESIGNED BY
		JNB
CHECKED BY	JMM	
PROJECT No.	11395.013	
DRAWING No.	<b>M-201</b>	

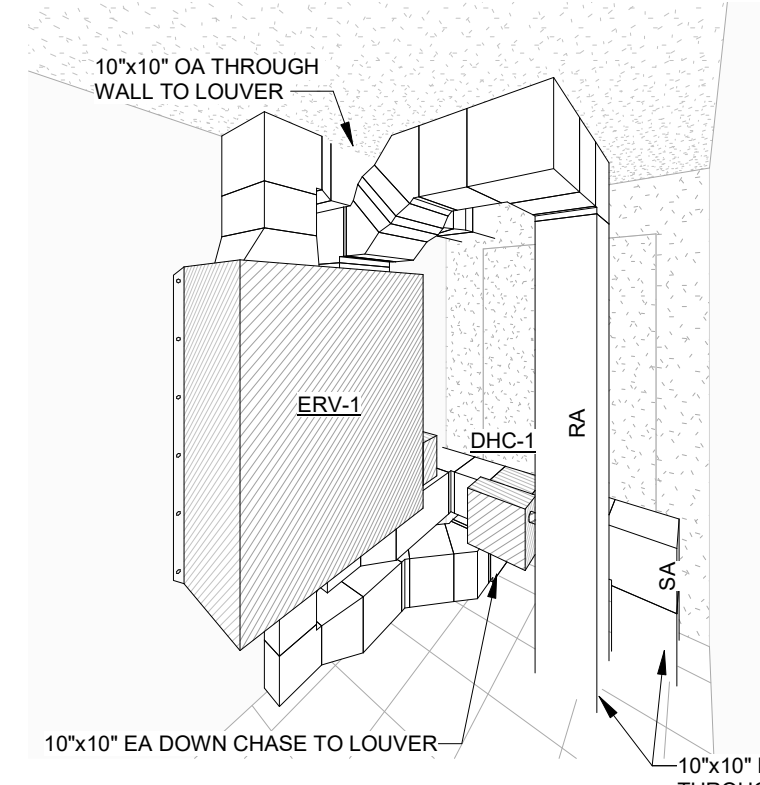
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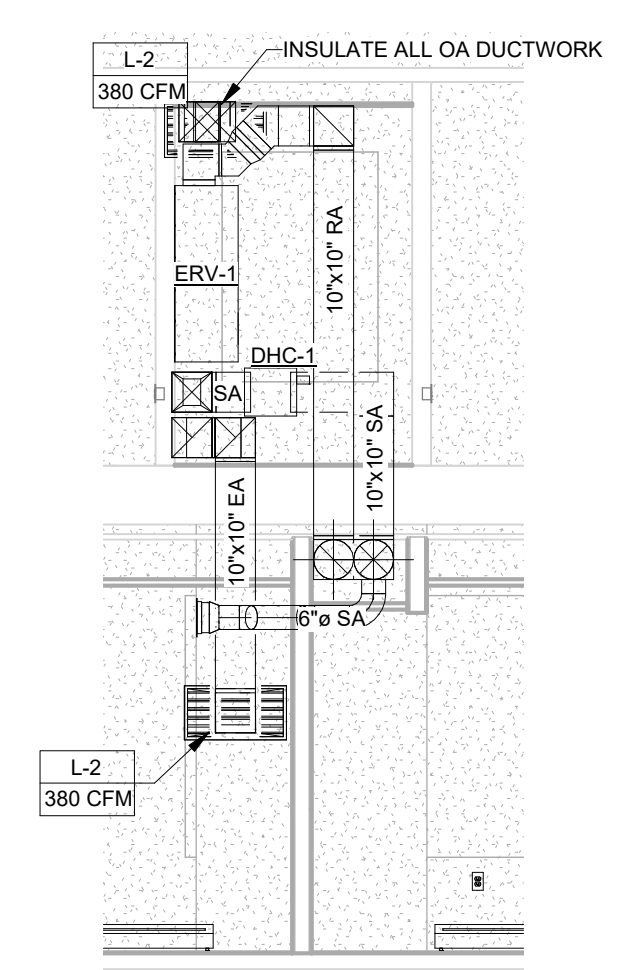
**2 SECOND FLOOR MECHANICAL HVAC PLAN - SOUTH**  
 M-202 SCALE: 1/4" = 1'-0"



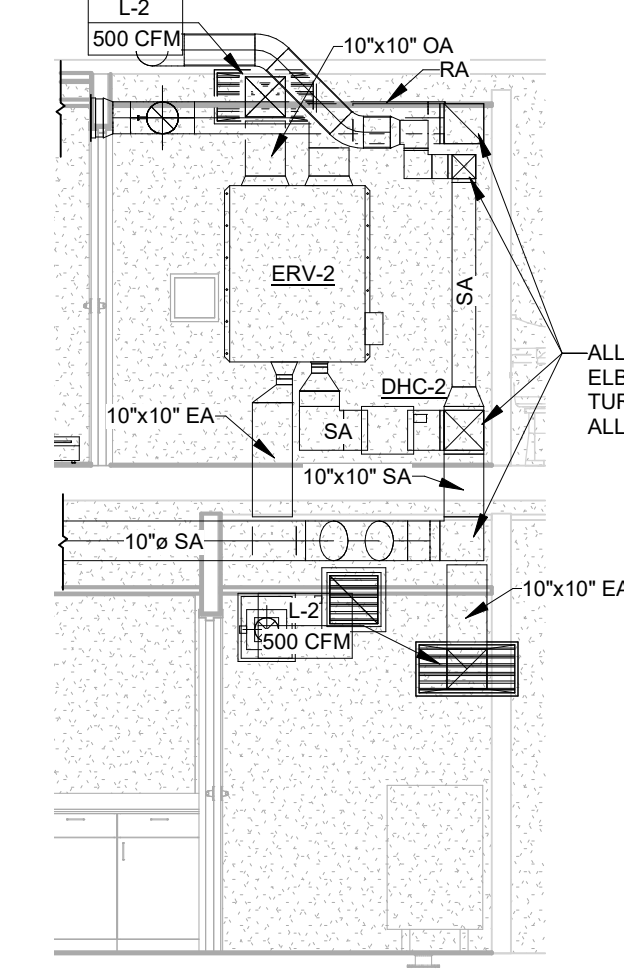
**1 FIRST FLOOR MECHANICAL HVAC PLAN - SOUTH**  
 M-202 SCALE: 1/4" = 1'-0"



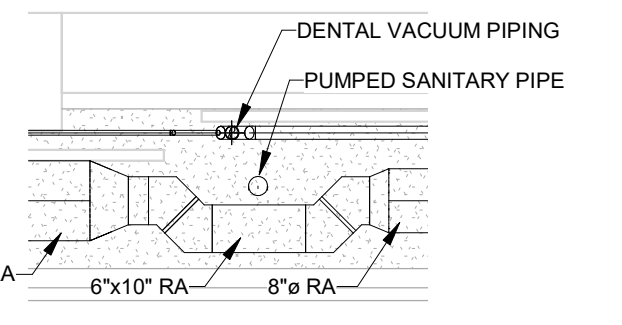
**3 ERV-1 ISO VIEW**  
 M-202 SCALE:



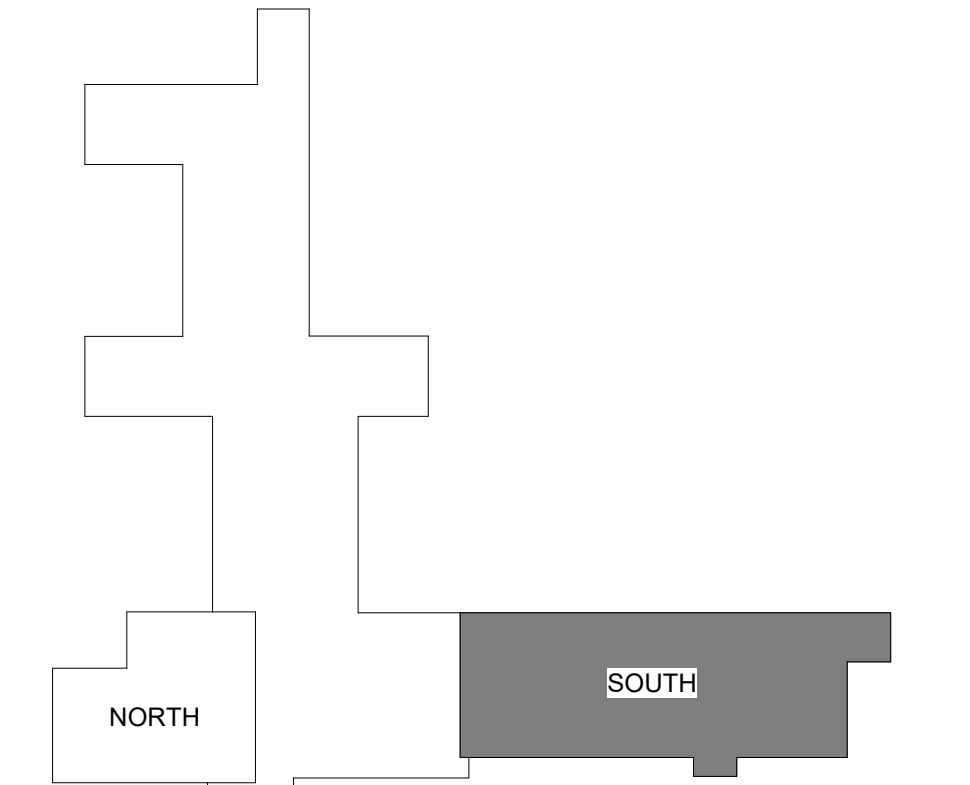
**4 ERV-1 SECTION**  
 M-202 SCALE: 1/4" = 1'-0"



**5 ERV-2 SECTION**  
 M-202 SCALE: 1/4" = 1'-0"



**6 OFFICE DUCT SECTION**  
 M-202 SCALE: 1/2" = 1'-0"

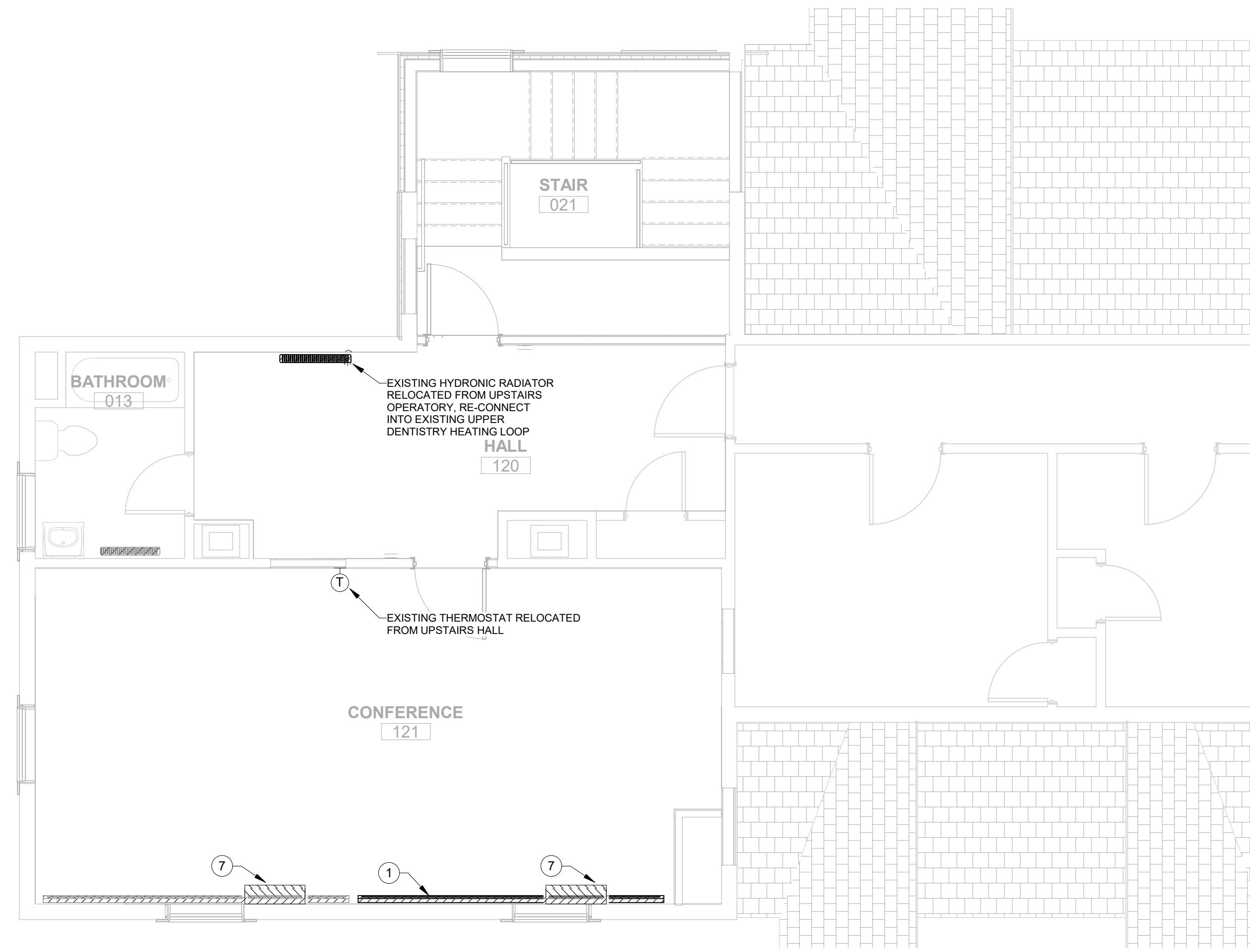


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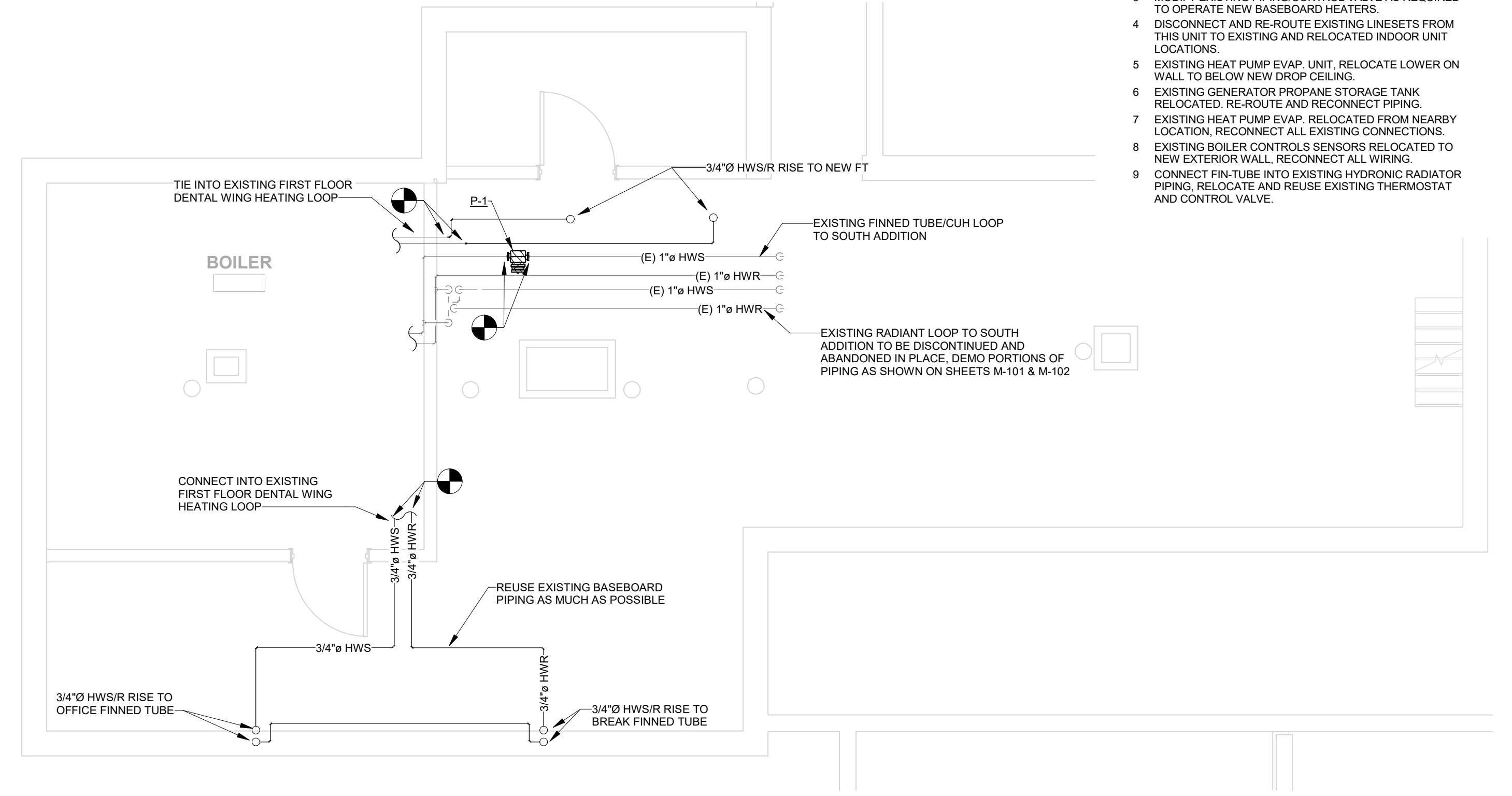
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DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING		
One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.769.4824				
PROJECT <b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE <b>MECHANICAL DUCTWORK PLANS - SOUTH</b>				

	DATE	SCALE
	2022.08.15	As indicated
	DRAWN BY	CHECKED BY
	JNB	JMM
PROJECT No.	11395.013	
DRAWING No.	<b>M-202</b>	

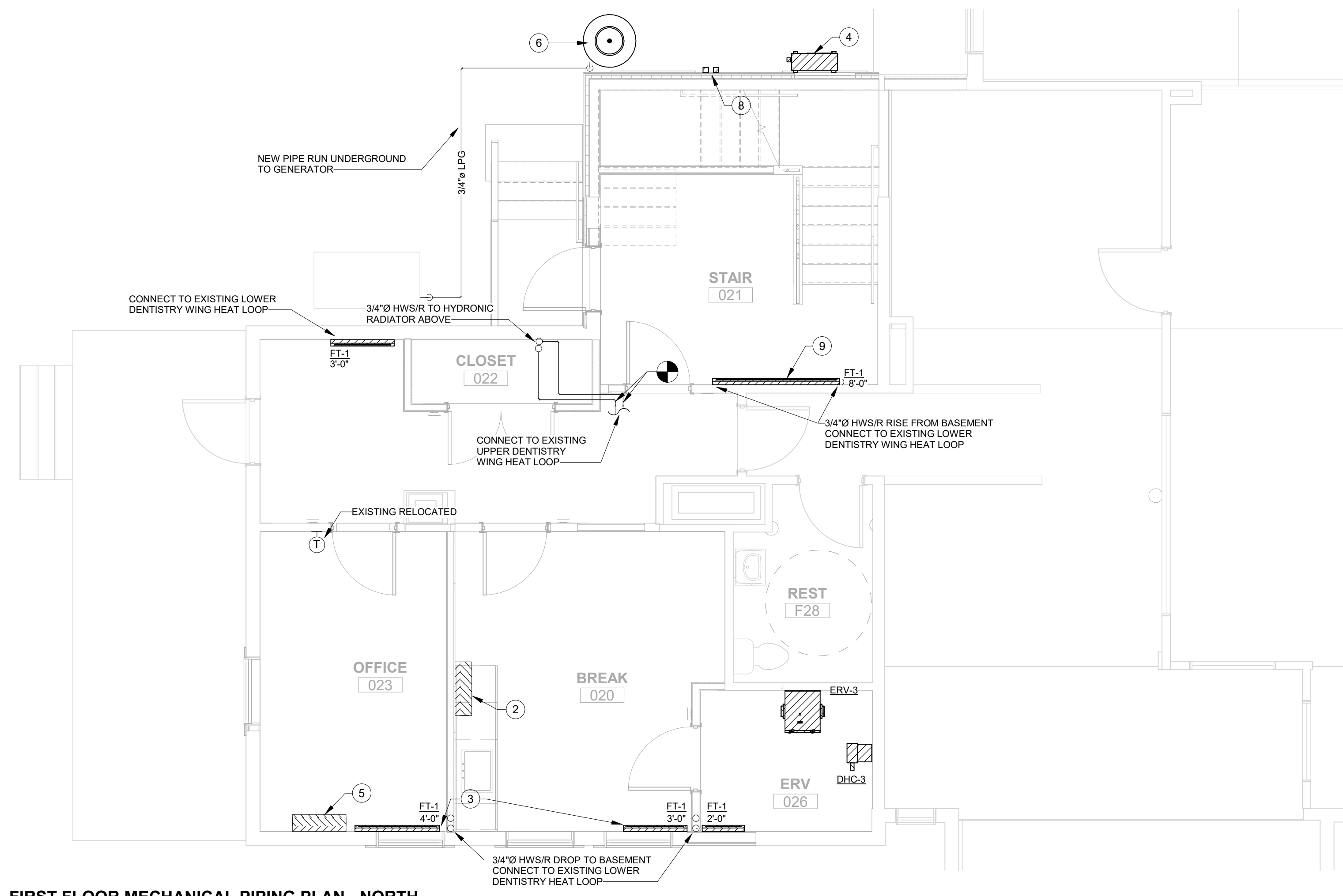
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2 SECOND FLOOR MECHANICAL PIPING PLAN - NORTH  
SCALE: 1/4" = 1'-0"



3 BASEMENT MECHANICAL PIPING PLAN  
SCALE: 1/4" = 1'-0"



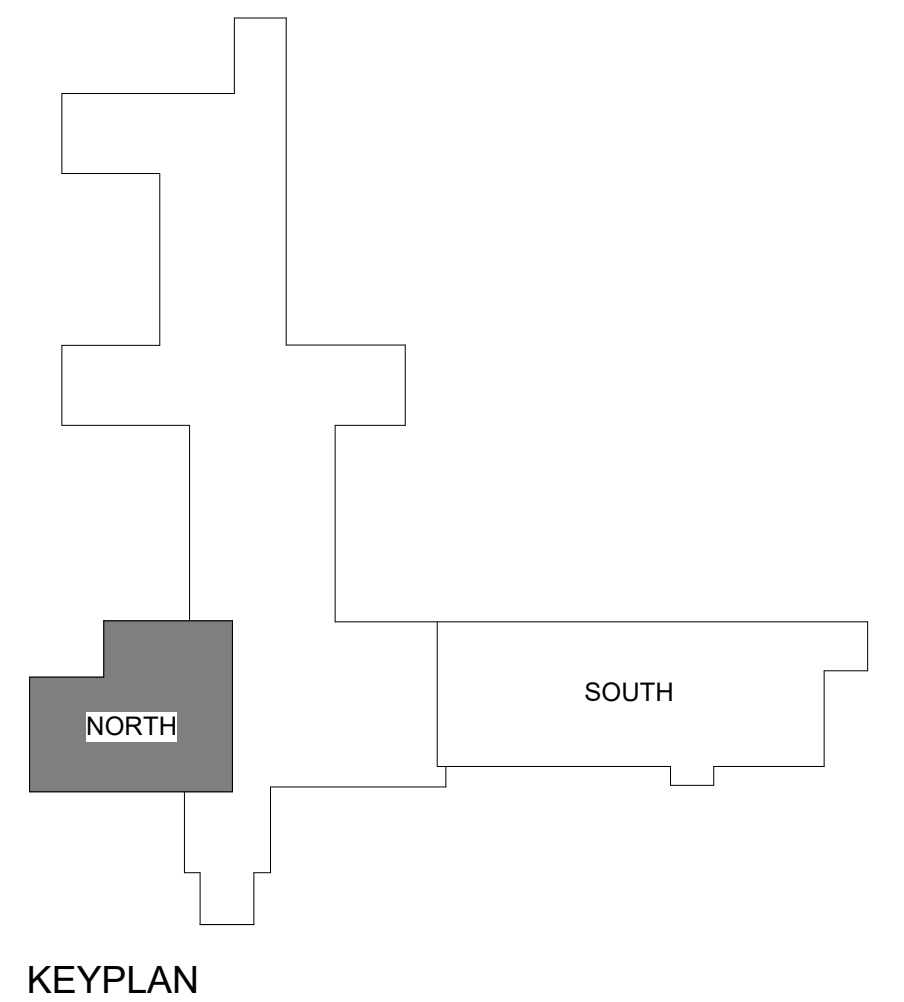
1 FIRST FLOOR MECHANICAL PIPING PLAN - NORTH  
SCALE: 1/4" = 1'-0"

**MECHANICAL PIPING GENERAL NOTES:**

1. ALL PIPING RUNOUTS TO EQUIPMENT ARE 3/4" UNLESS NOTED OTHERWISE.

**SHEET M-301 NUMBERED NOTES (#)**

1. EXISTING BASEBOARD RELOCATED TO AVOID NEW DUCT CHASE. MODIFY PIPING TO OPERATE ON SAME THERMOSTAT AS ADJACENT BASEBOARD IN CONFERENCE ROOM.
2. EXISTING HEAT PUMP EVAP. UNIT TO NEW WALL IN THE SAME ROOM AS PREVIOUSLY INSTALLED. REROUTE AND RECONNECT ALL LINESETS, CONDENSATE DRAIN AND ELECTRICAL AS REQUIRED.
3. MODIFY EXISTING PIPING/CONTROL VALVE AS REQUIRED TO OPERATE NEW BASEBOARD HEATERS.
4. DISCONNECT AND RE-ROUTE EXISTING LINESETS FROM THIS UNIT TO EXISTING AND RELOCATED INDOOR UNIT LOCATIONS.
5. EXISTING HEAT PUMP EVAP. UNIT, RELOCATE LOWER ON WALL TO BELOW NEW DROP CEILING.
6. EXISTING GENERATOR PROPANE STORAGE TANK RELOCATED. RE-ROUTE AND RECONNECT PIPING.
7. EXISTING HEAT PUMP EVAP. RELOCATED FROM NEARBY LOCATION. RECONNECT ALL EXISTING CONNECTIONS.
8. EXISTING BOILER CONTROLS SENSORS RELOCATED TO NEW EXTERIOR WALL, RECONNECT ALL WIRING.
9. CONNECT FIN-TUBE INTO EXISTING HYDRONIC RADIATOR PIPING. RELOCATE AND REUSE EXISTING THERMOSTAT AND CONTROL VALVE.



REV.	DATE	DESCRIPTION	BY	CHK.
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<b>BID DOCUMENTS DECEMBER 19, 2022</b>				

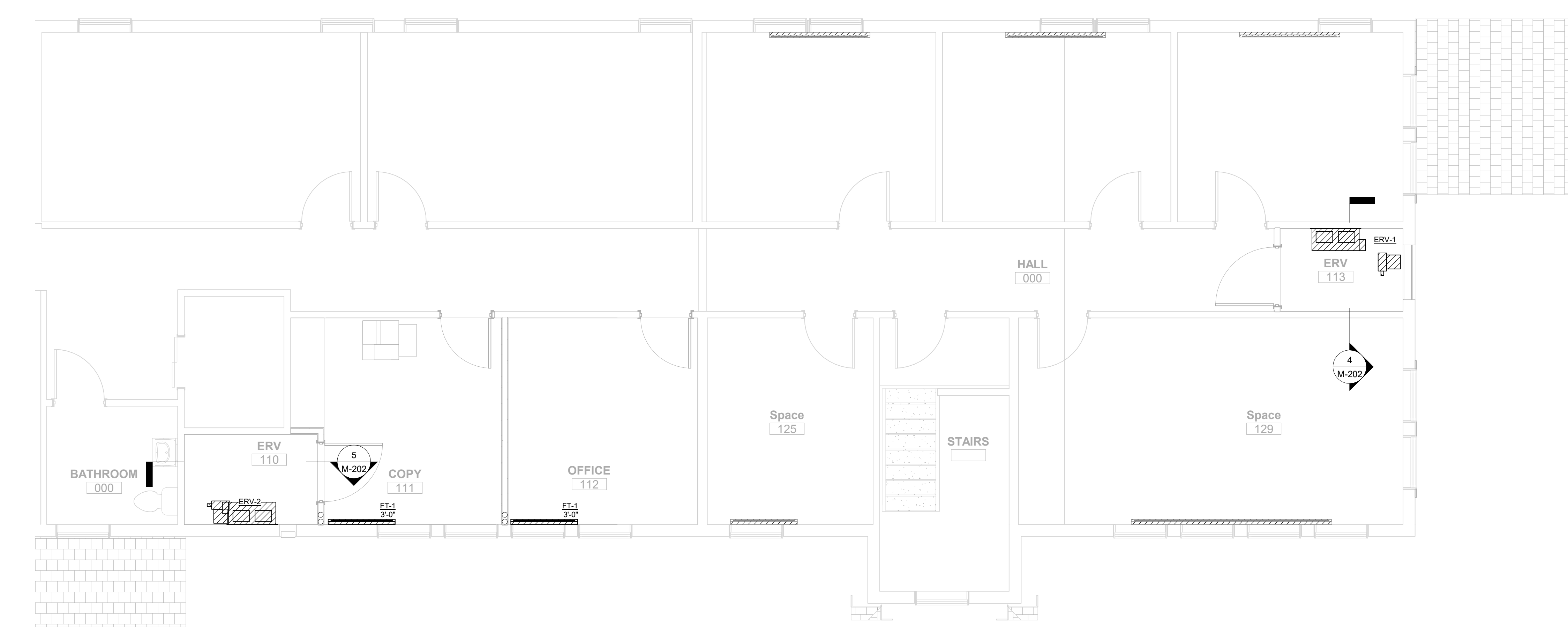
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One Merchants Plaza, Suite 701  
Bangor, Maine 04401  
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**HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION  
HARRINGTON, MAINE**

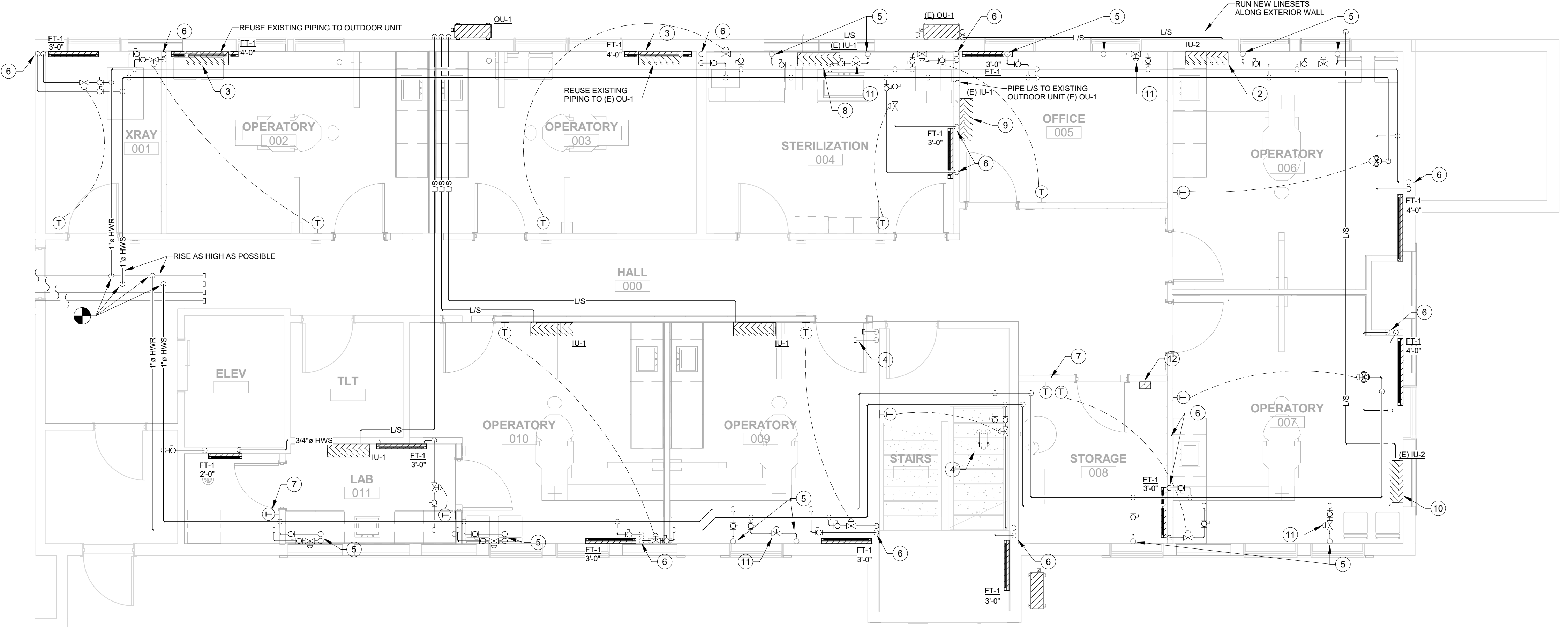
**MECHANICAL PIPING PLANS - NORTH**

	DATE	2022.08.15	SCALE	As indicated
	DRAWN BY	JNB	DESIGNED BY	JNB
	CHECKED BY	JMM	PROJECT No.	11395.013
	DRAWING No.	<b>M-301</b>		

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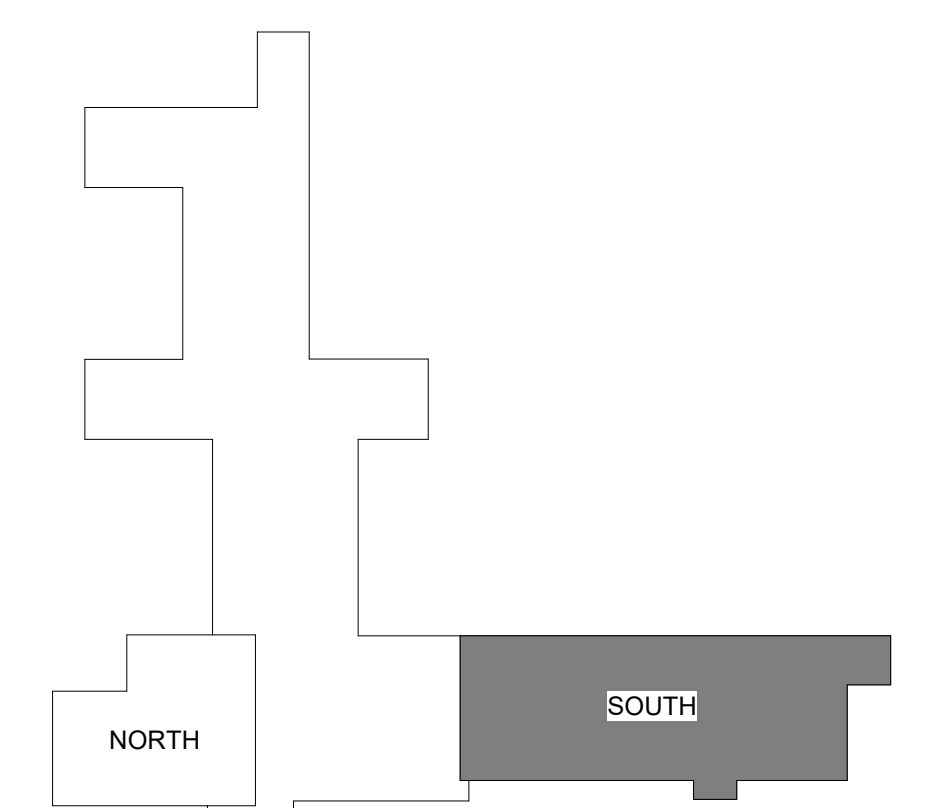
2 SECOND FLOOR MECHANICAL PIPING PLAN - SOUTH  
 M-302 SCALE: 1/4" = 1'-0"



1 FIRST FLOOR MECHANICAL PIPING PLAN - SOUTH  
 M-302 SCALE: 1/4" = 1'-0"

SHEET M-302 NUMBERED NOTES #

- 2 NEW SAMSUNG EVAP. UNIT, CONNECT TO EXISTING SAMSUNG MULTI-SPLIT HEAT PUMP SYSTEM SERVING THIS AREA.
- 3 EXISTING HEAT PUMP EVAP. UNIT, RELOCATE LOWER ON WALL TO BELOW NEW DROP CEILING, REROUTE AND RECONNECT LINESETS, CONDENSATE DRAIN AND ELECTRICAL AS REQUIRED.
- 4 CAP EXISTING HYDRONIC PIPING AT RISE THROUGH SLAB.
- 5 EXISTING 3/4" HWS & HWR RISE TO FINNED TUBE ON SECOND FLOOR.
- 6 3/4" HWS & HWR DROP TO FINNED TUBE ON FIRST FLOOR.
- 7 COOLING THERMOSTAT TO OPERATE ROOM EXHAUST FAN AND MOTORIZED DAMPER, OPEN DAMPER AND START FAN AT 65°F (ADJ.).
- 8 EXISTING HEAT PUMP RELOCATED FROM NEW ROOM OPERATORY 010.
- 9 EXISTING HEAT PUMP RELOCATED FROM NEW ROOM OPERATORY 009.
- 10 EXISTING HEAT PUMP RELOCATED FROM NEW ROOM STERILIZATION 004.
- 11 EXISTING ZONE VALVE, RELOCATE AND REUSE FOR EXISTING ZONE.
- 12 (4) TACO ZVC406-EXP ZONE VALVE CONTROLLERS, SPLICE ALL EXISTING UPSTAIRS THERMOSTAT WIRES AND REWIRE FROM EXISTING ZONE CONTROLLER TO NEW CONTROLLER LOCATION, RECONNECT ALL EXISTING/RELOCATED ZONE VALVES AND NEW ZONE CIRCULATOR IN BASEMENT NEAR BOILER ROOM.



KEYPLAN

REV.	DATE	DESCRIPTION	BY	CHK.
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<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING		
One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.987.4824				
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>MECHANICAL PIPING PLANS - SOUTH</b>				

DATE	2022.08.15	SCALE	1/4" = 1'-0"
DRAWN BY	JNB	DESIGNED BY	JNB
CHECKED BY	JMM		
PROJECT No.	11395.013		
DRAWING No.	<b>M-302</b>		

STATE OF MAINE  
 JARED MERRY  
 No. 11679  
 LICENSED PROFESSIONAL ENGINEER

DATE: 2022.08.15

DRAWN BY: JNB

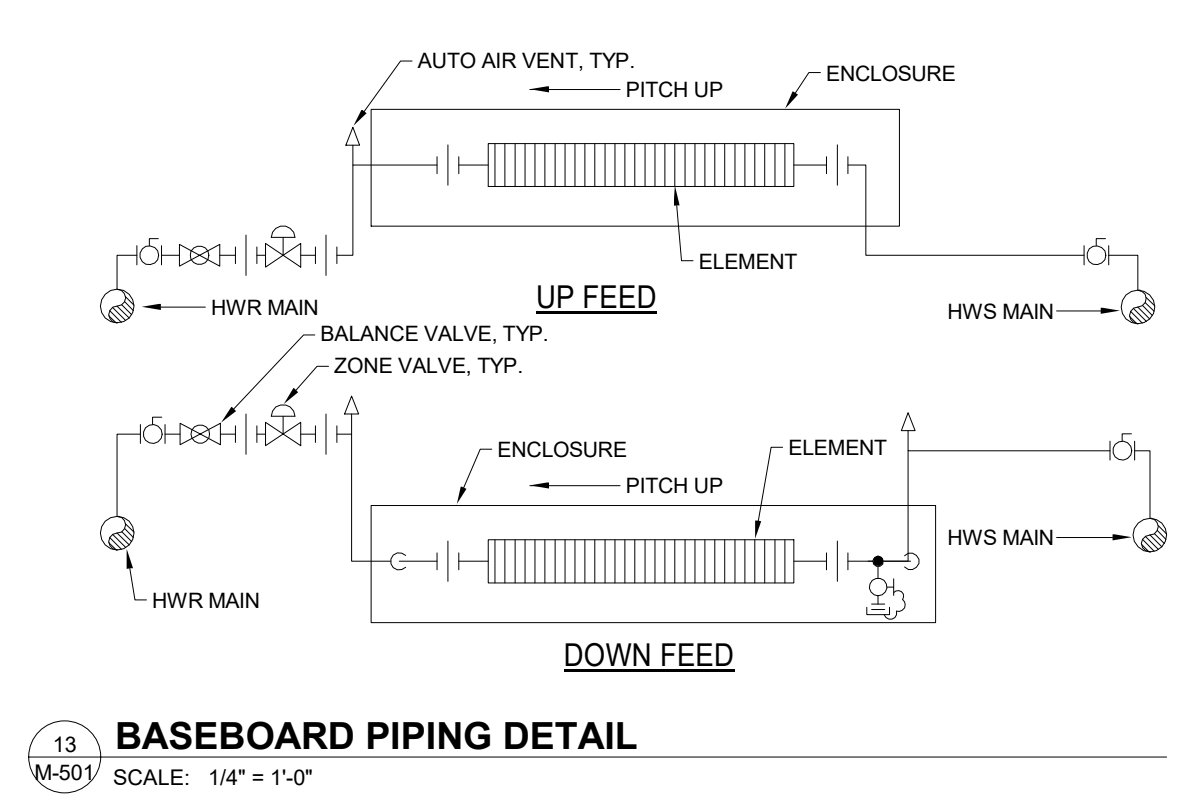
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CHECKED BY: JMM

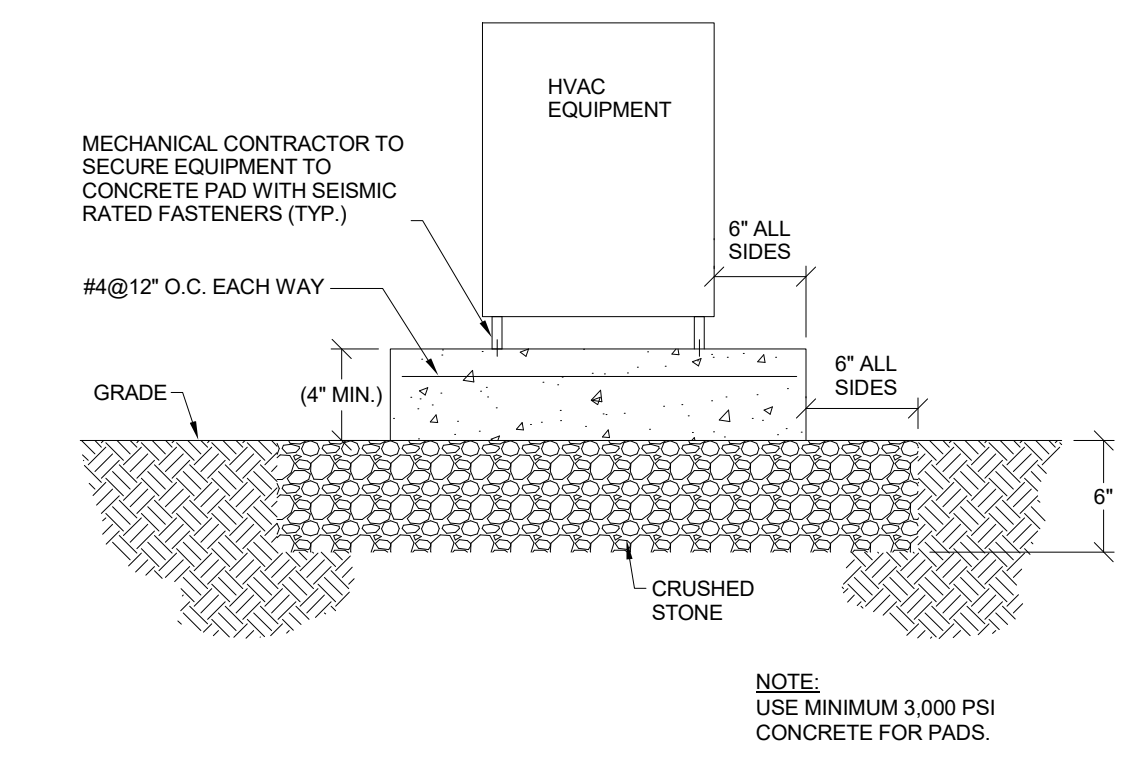
PROJECT No.: 11395.013

DRAWING No.: **M-302**

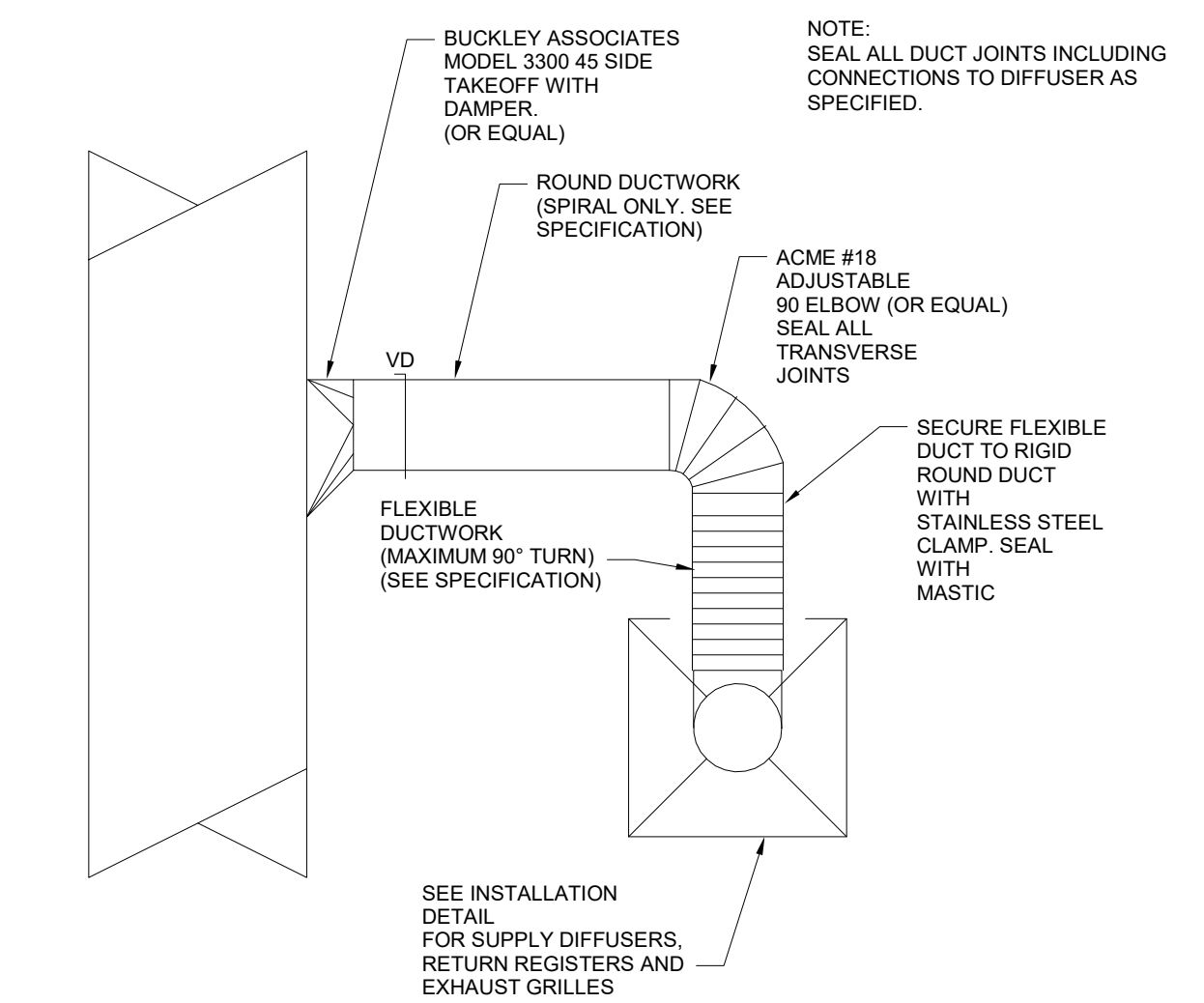
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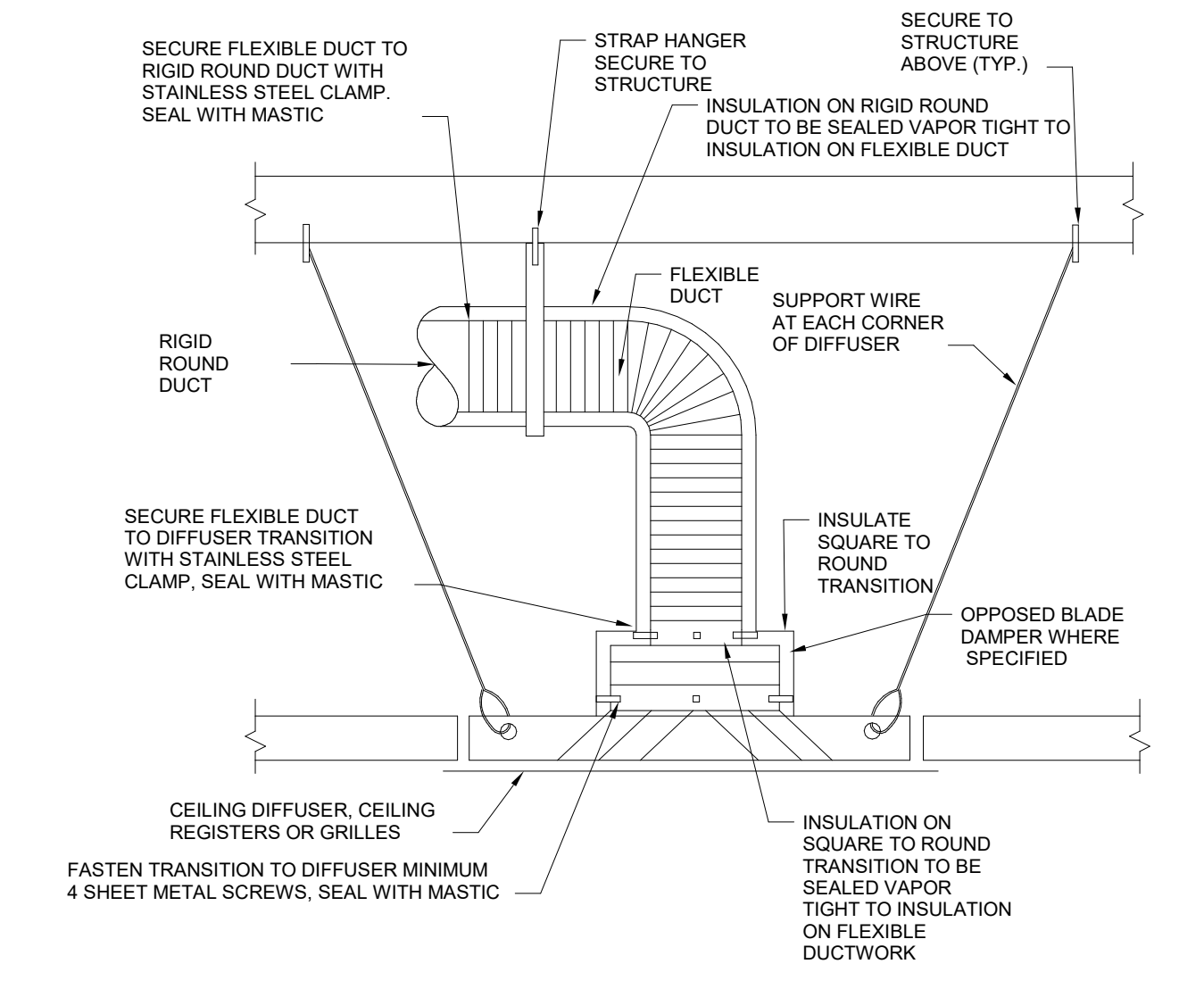
13 BASEBOARD PIPING DETAIL  
M-501 SCALE: 1/4" = 1'-0"



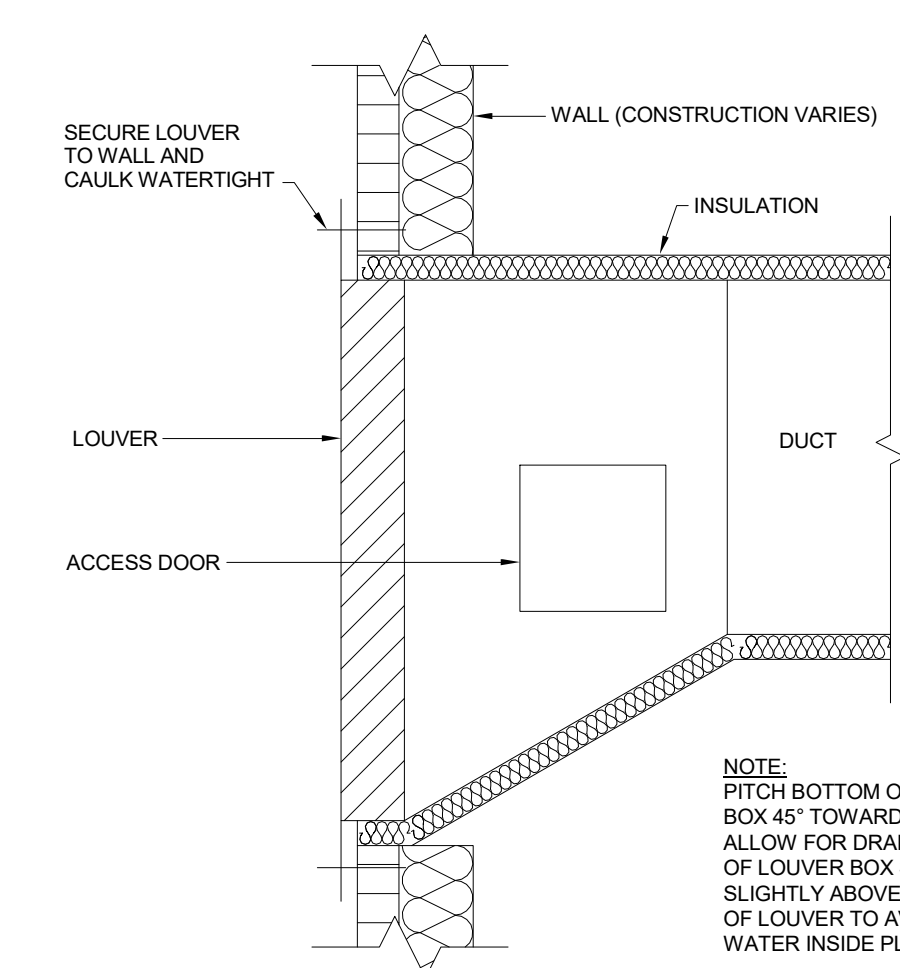
12 HVAC EQUIPMENT SUPPORT DETAIL  
M-501 SCALE: 1/4" = 1'-0"



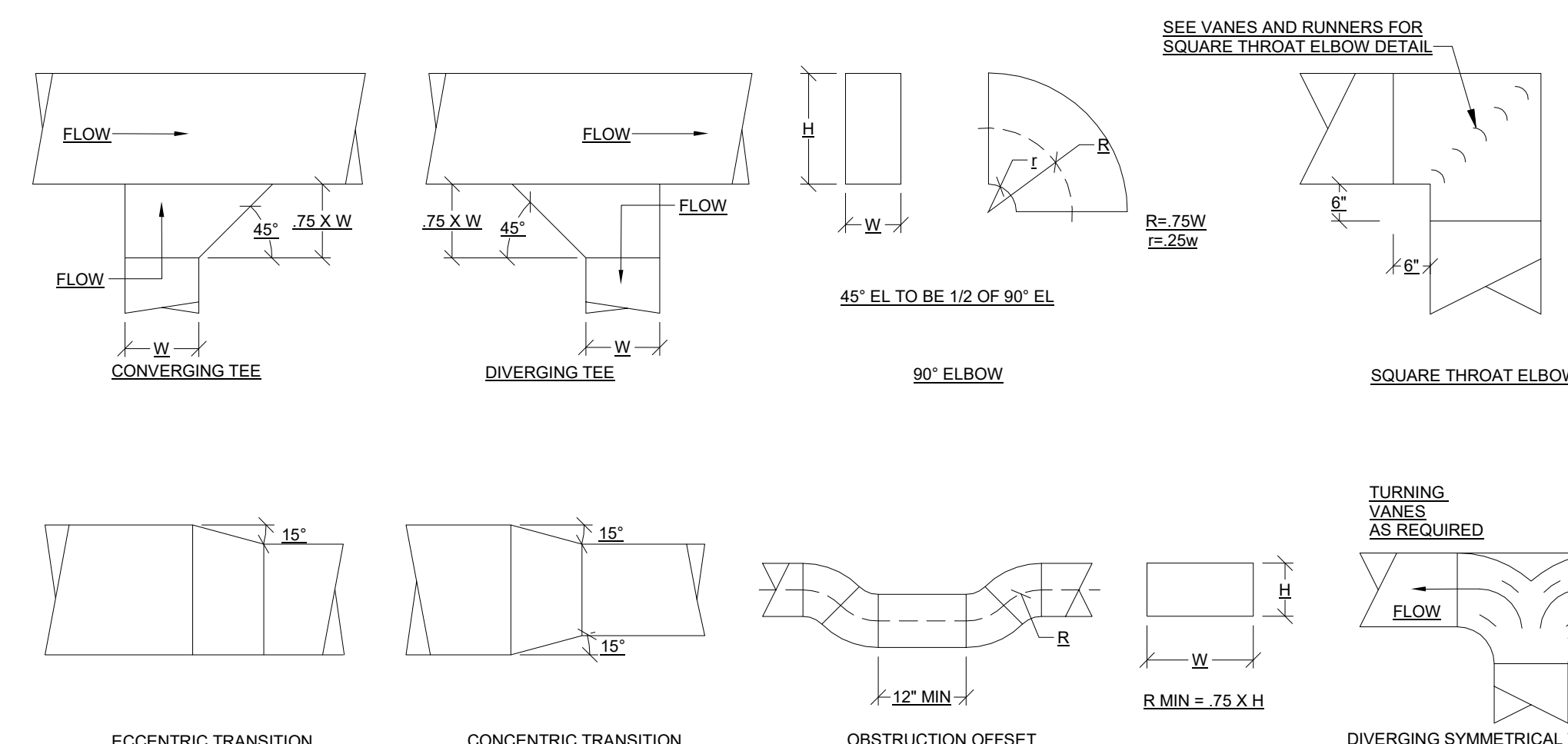
11 ROUND BRANCH DUCT TAKE OFF DETAIL  
M-501 SCALE: 1/4" = 1'-0"



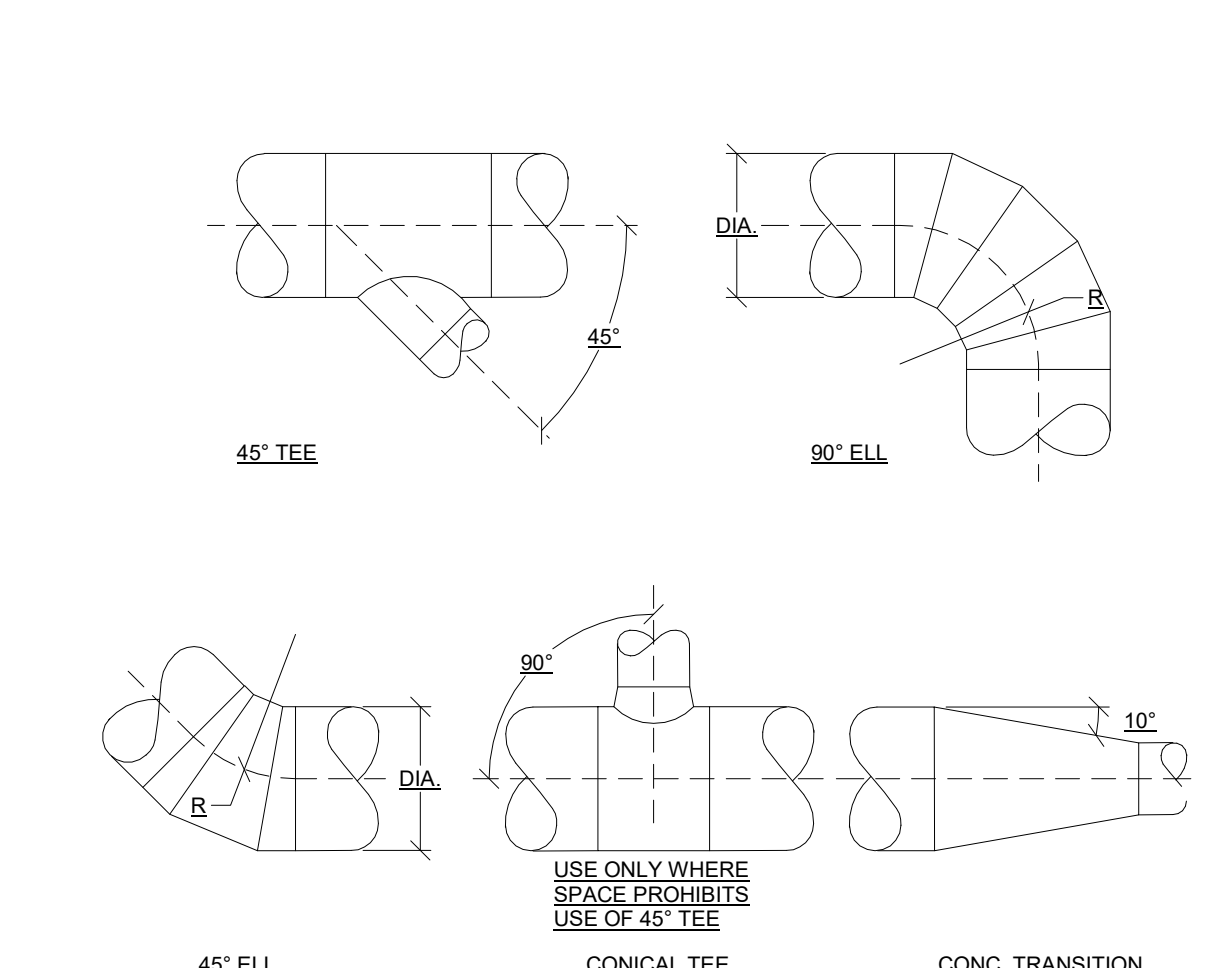
10 DIFFUSERS AND GRILLES INSTALLATION DETAIL  
M-501 SCALE: 1/4" = 1'-0"



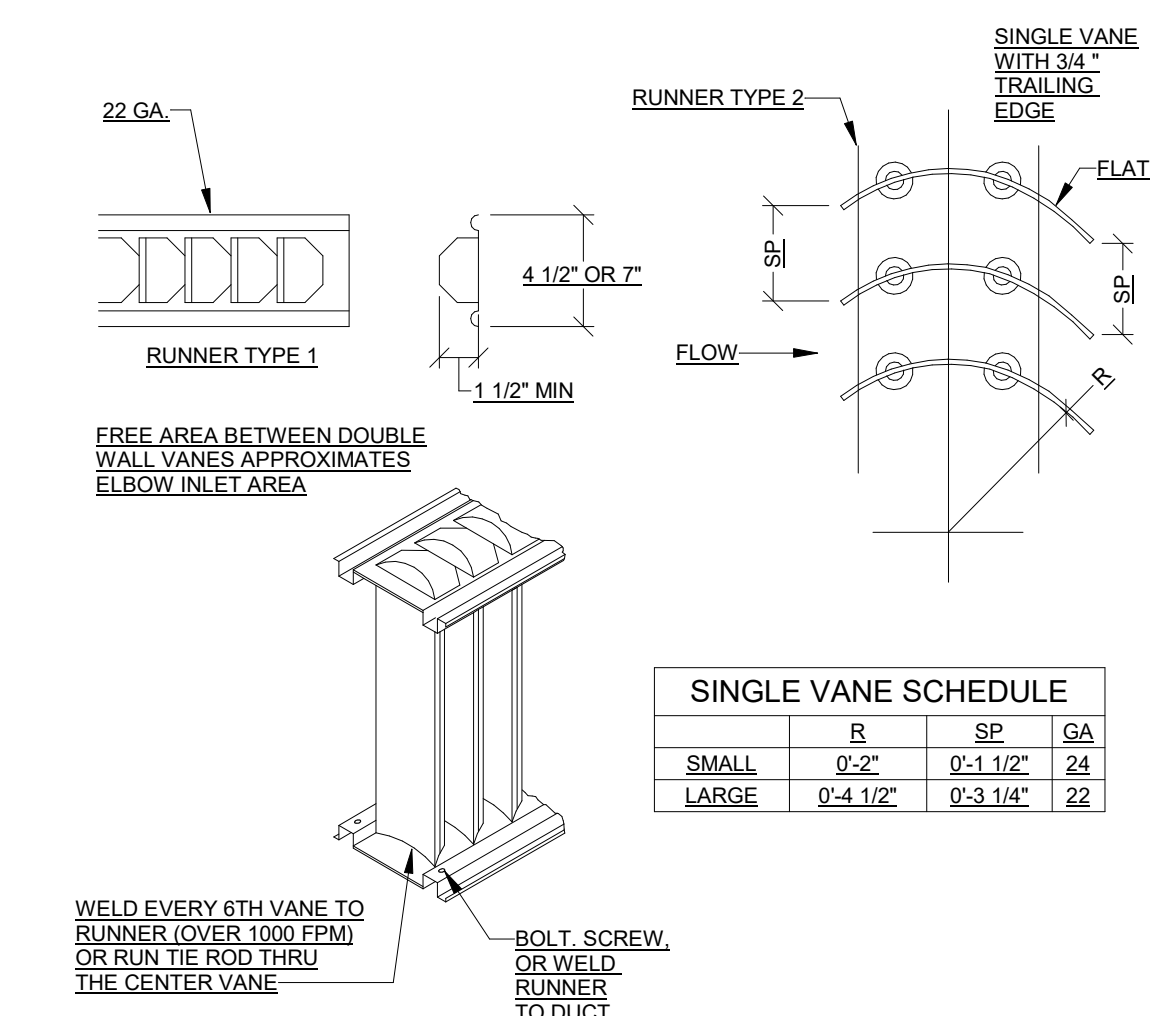
9 LOUVER INSTALLATION DETAIL  
M-501 SCALE: 1/4" = 1'-0"



8 M-DGEN-02 STANDARD RECTANGULAR DUCT DETAILS  
M-501 SCALE: 1/4" = 1'-0"

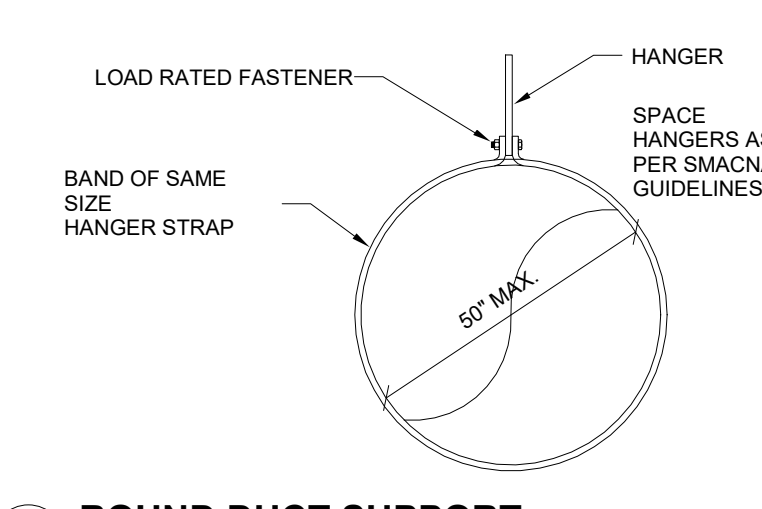


7 M-DGEN-03 STANDARD ROUND DUCT DETAILS  
M-501 SCALE: 1/4" = 1'-0"

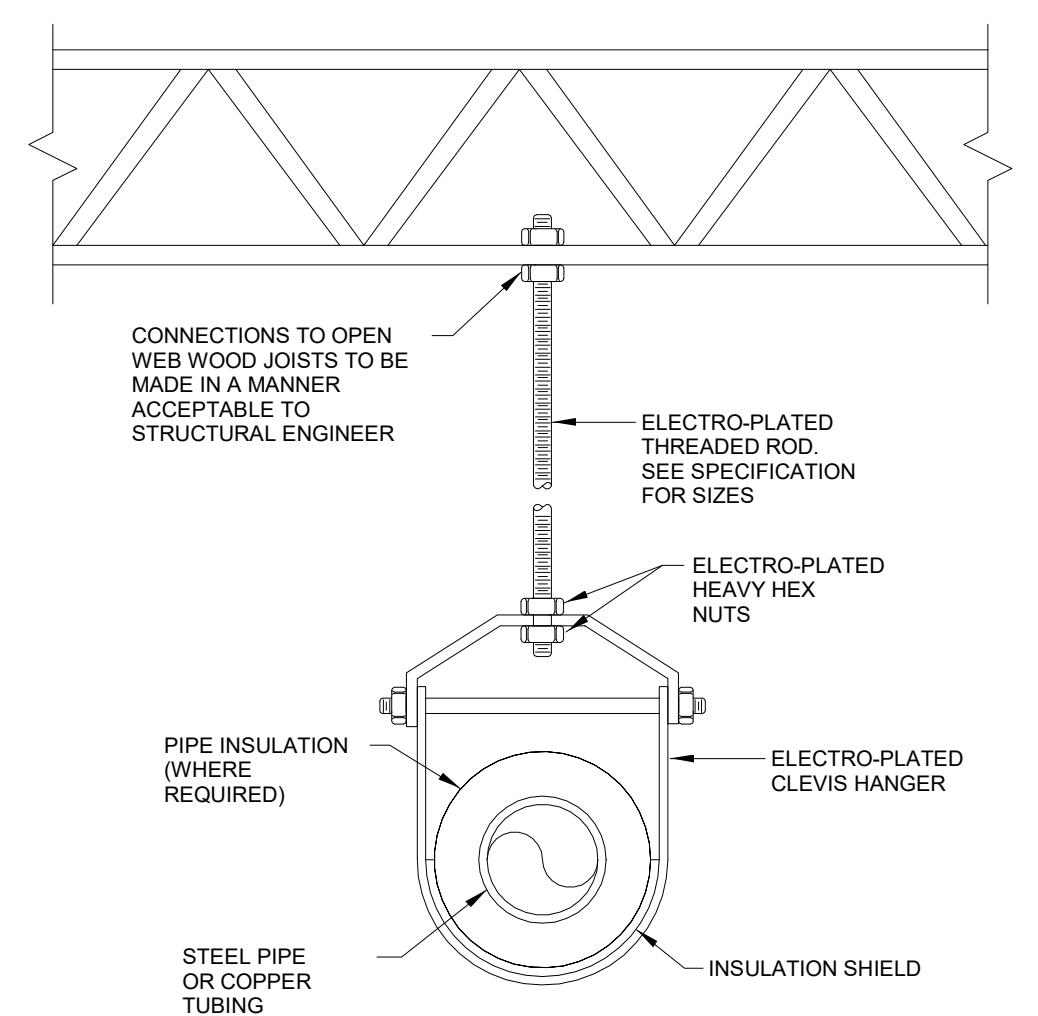


6 M-DGEN-04 TURNING VANE AND RUNNERS FOR SQUARE ELBOWS  
M-501 SCALE: 1/4" = 1'-0"

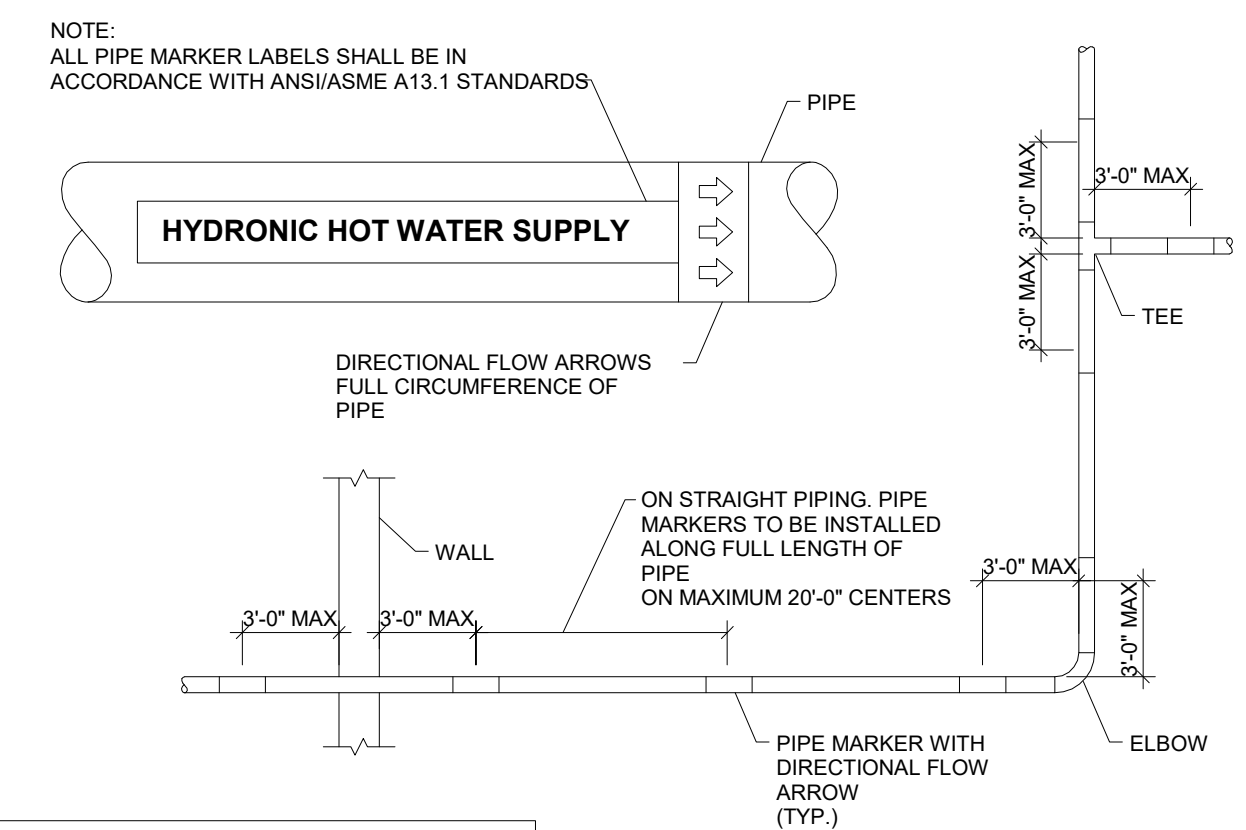
SINGLE VANE SCHEDULE			
	R	SP	GA
SMALL	0'-2"	0'-1 1/2"	24
LARGE	0'-4 1/2"	0'-3 1/4"	22



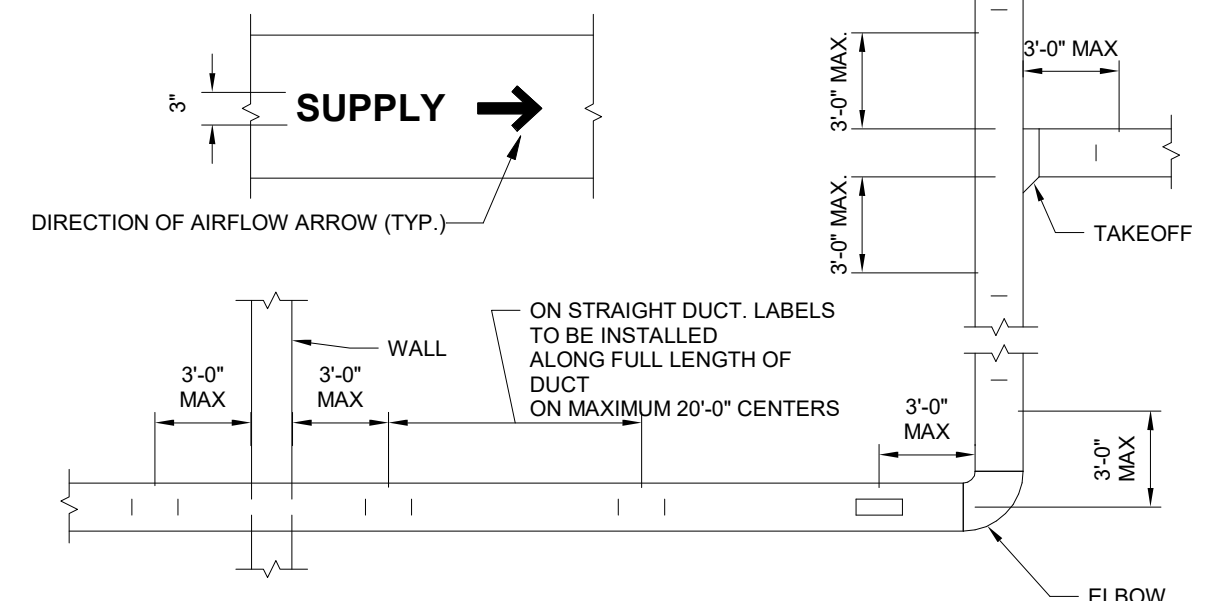
5 ROUND DUCT SUPPORT  
M-501 SCALE: 1/2" = 1'-0"



3 PIPE SUPPORT TO STRUCTURE  
M-501 SCALE: 1/4" = 1'-0"



2 PIPE MARKERS  
M-501 SCALE: 1/4" = 1'-0"



DUCTWORK IDENTIFICATION COLOR CODE CHART	
SUPPLY	YELLOW
RETURN	RED/MAGENTA
EXHAUST	GREEN
OUTSIDE AIR	BLUE
RELIEF	WHITE
KITCHEN EXHAUST	BLACK

1 TYPICAL DUCT LABELS  
M-501 SCALE: 1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 WWW.HALEYWARD.COM				
PROJECT <b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE <b>MECHANICAL DETAILS</b>				
DATE 2022.08.15		SCALE As Indicated		
DRAWN BY JNB	DESIGNED BY JNB	CHECKED BY JMM		
PROJECT No. 11395.013				
DRAWING No.			REV	
<b>M-501</b>				

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MARK	SERVICE	Manufacturer	MODEL	OUTDOOR AIR PERFORMANCE			EXHAUST AIR PERFORMANCE			CORE EFFICIENCY			ELECTRICAL				FILTERS		REMARKS		
				OA CFM	OA ESP IN WG	OA HP	EA CFM	EA ESP IN WG	EA HP	SENSIBLE %	TOTAL % WINTER	TOTAL % SUMMER	VOLTAGE	PHASE	POWER	FLA	MCA	MOCP		VARIABLE SPEED	OA MERV
ERV-1	SOUTH OPERATORIES	Renewaire	EV450IN	380 CFM	.2	.5	380 CFM	.2	-	74.1	72.4	66.7	120 V	1	216 VA	8.10 A	10.10 A	15 A	INTEGRAL ECM	8	8
ERV-2	NORTH OPERATORIES	Renewaire	EV450IN	380 CFM	.2	.5	380 CFM	.2	-	75.4	73.8	68.3	120 V	1	207 VA	8.10 A	10.10 A	15 A	INTEGRAL ECM	8	8
ERV-3	BREAK/CONFERENCE AREA	Renewaire LLC	EV PREMIUM L	250 CFM	.2	.1	250 CFM	.2	.1	73.6	70.2	54.6	120 V	1	138 VA	2.40 A	10.00 A	10 A	INTEGRAL ECM	8	8

Type Mark	SERVICE	MANUFACTURER	MODEL	HEATING CAP.	HEATING EAT	HEATING LAT	AIRFLOW	ELECTRICAL				REMARKS	
								VOLTAGE	FLA	POWER	PHASE		MOCP
DHC-1	ERV-1	RENEWAIRE	EK-1010002S	6824.0 Btu/h	53 °F	68 °F	380 CFM	208 V	9.60 A	2000 W	1	15.00 A	PROVIDE WITH INTEGRAL THERMOSTAT AND SCR CONTROLS
DHC-2	ERV-2	RENEWAIRE	EK-1010003S	10236.0 Btu/h	54 °F	68 °F	500 CFM	208 V	14.42 A	3000 W	1	20.00 A	PROVIDE WITH INTEGRAL THERMOSTAT AND SCR CONTROLS
DHC-3	ERV-3	RENEWAIRE	RHD2208-6	6824.0 Btu/h	53 °F	68 °F	250 CFM	208 V	9.60 A	2000 W	1	15.00 A	PROVIDE WITH INTEGRAL THERMOSTAT AND SCR CONTROLS

TYPE MARK	MANUFACTURER	INDOOR UNIT	COOLING CAPACITY	HEATING CAPACITY	SUPPLY CFM	ELECTRICAL					REMARKS	
						VOLTAGE	PHASE	FLA	POWER	MCA		MOCP
IU-1	SAMSUNG	AR07TSFYBWKNCV	7000.0 Btu/h	7500.0 Btu/h	380 CFM	208 V	1	0.30 A	63 VA	0.40 A	15.00 A	
IU-2	SAMSUNG	AR09TSFYBWKKN	9000.0 Btu/h	11000.0 Btu/h	403 CFM	208 V	1	0.30 A	63 VA	0.40 A	15.00 A	

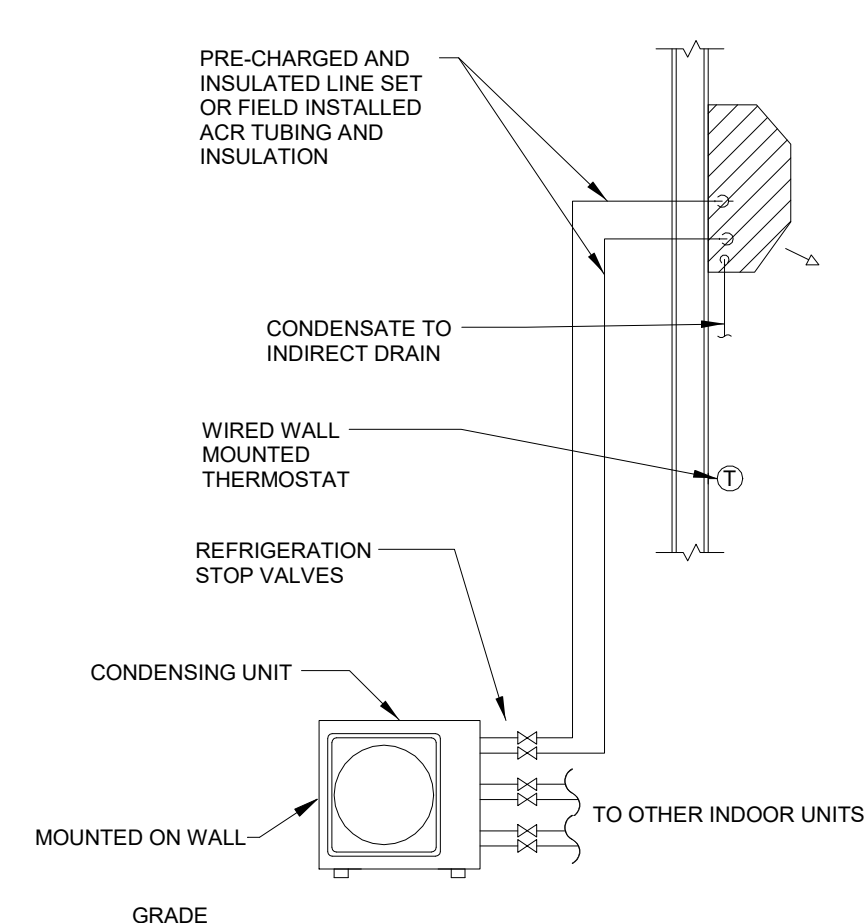
TYPE MARK	MANUFACTURER	MODEL	COOLING CAPACITY	HEATING CAPACITY	ELECTRICAL					REMARKS	
					VOLTAGE	PHASE	FLA	POWER	MCA		MOCP
OU-1	SAMSUNG	AJ020TXS3CH4A	21000.0 Btu/h	22000.0 Btu/h	208 V	1	20.40 A	4245 VA	25.50 A	30.00 A	WALL HUNG

MARK	CFM RANGE	NECK SIZE	MOUNTING	DEFLECTION	S.P. IN. W.C.	MAX N.C.	FINISH/COLOR	MANUFACTURER	MODEL	REMARKS
L-1	0-500	12"x12"	WALL	NA	0.18 in-wg		WHITE	AWV	LE-31	
L-2	150-500	24"x12"	WALL	NA	0.15 in-wg		WHITE	AWV	LE-31	
R-1	0-100	6"x6"	LAY-IN	NA	0.02 in-wg		WHITE	METALAIRE	CCS-8	
R-2	165-260	10"x10"	LAY-IN	NA	0.02 in-wg		WHITE	METALAIRE	CCS-8	
R-3	0-100	6"x6"	SURFACE	NA	0.02 in-wg		WHITE	METALAIRE	CCS-1	
R-4	165-260	10"x10"	SURFACE	NA	0.02 in-wg		WHITE	METALAIRE	CCS-1	
R-5	0-100	6"x6"	SURFACE/DUCT	NA	0.02 in-wg		WHITE	METALAIRE	CCS-1-OBDA	PROVIDE WITH OPPOSED BLADE DAMPER
S-1	0-135	6"x6"	LAY-IN	4 WAY	0.03 in-wg	15	WHITE	METALAIRE	5750-6P-AL	
S-2	135-245	8"x8"	LAY-IN	4 WAY	0.03 in-wg	20	WHITE	METALAIRE	5750-6P-AL	
S-3	0-185	8"x8"	SURFACE	SEE PLANS	0.05 in-wg	10	WHITE	METALAIRE	H4002-AF-1	
S-4	0-185	8"x8"	SURFACE/DUCT	SEE PLANS	0.05 in-wg	10	WHITE	METALAIRE	H4002-AF-1-OBDA	PROVIDE WITH OPPOSED BLADE DAMPER
TG-1	165-260	10"x10"	LAY-IN	NA	0.02 in-wg		WHITE	METALAIRE	CCS-8	

Type Mark	MANUFACTURER	MODEL	BTU/H LIN. FT.	AWT	TUBE SIZE	MOUNTING HEIGHT	REMARKS
FT-1	STERLING	LB2	850	190		0'-2"	

Type Mark	SERVICE	Manufacturer	Model	EXHAUST AIR PERFORMANCE			VOLTAGE	PHASE	RLA	POWER	VFD	REMARKS
				EA CFM	EA ESP IN WG	EA FAN RPM						
EF-1	STORAGE 008	Fantech	RVF6XL	350 CFM	.15	3017	120 V	1	1.32 A	150 VA	NO	

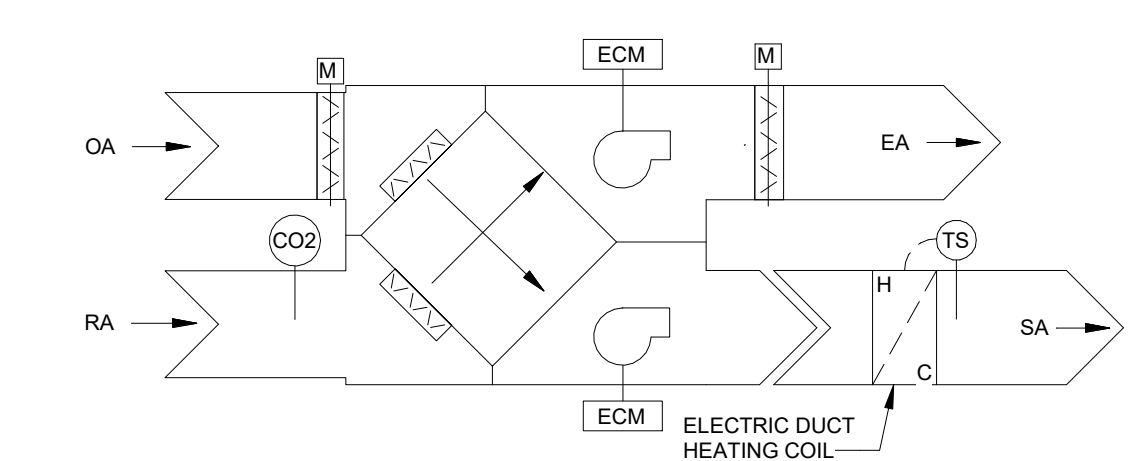
Type Mark	Manufacturer	MODEL	SERVICE	GPM	FT HEAD	ELECTRICAL			HP	Comments
						VOLTAGE	PHASE	FLA		
P-1	TACO	0015E3	SOUTH WING	7.20 GPM	12.00 FT	120 V	1	0.54 A	1/16	HI SPEED



1. **GENERAL**
  - A. THE SYSTEM SHALL BE CONTROLLED BY THE MANUFACTURER'S CONTROLLER.
  - B. EACH ROOM SHALL OPERATE AS A SINGLE ZONE AND BE PROVIDED WITH A WALL MOUNTED THERMOSTAT TO CONTROL THE INDOOR UNIT.
2. **CYCLES/MODES:**
  - A. THE CYCLE/MODE OF ZONE EQUIPMENT AND OUTDOOR UNIT SHALL BE DETERMINED AND SET BY THE MANUFACTURER'S CONTROLS.
3. **DEMAND CONTROLLED VENTILATION**
  - A. SEE ERV SEQUENCE OF OPERATION FOR DEMAND VENTILATION CONTROL INFORMATION.

2 **DUCTLESS MULTI-SPLIT SCHEMATIC**  
SCALE: 1/4" = 1'-0"

- NOTE:
1. INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.
  2. INSTALLING CONTRACTOR TO PROVIDE WORKING CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.
  3. INSULATE ALL REFRIGERANT LINES. REFRIGERANT LINE LENGTH AND HEIGHT LIMITS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
  4. TRAP ALL SUCTION RISERS HAVING A VERTICAL LIFT OF 5'-0" OR MORE.
  5. INSTALLING CONTRACTOR SHALL SIZE ALL PIPING BASED ON EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
  6. INSTALLING CONTRACTOR SHALL PROVIDE ALL REFRIGERANT PIPING ACCESSORIES IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.



- A. **GENERAL:**
  1. THE ERV AND ELECTRIC DUCT HEATER SHALL BE CONTROLLED VIA THEIR OWN INTEGRAL OR PROVIDED CONTROLLERS.
  2. ALL SETPOINTS SHALL BE ADJUSTABLE.
  3. OPERATION SHALL BE BASED ON THE OCCUPANCY SCHEDULE AS SET BY THE FACILITY'S MANAGEMENT AND PROGRAMMED INTO THE INTEGRAL CONTROLLER.
  4. ALL SENSORS SHOWN SHALL BE SUPPLIED WITH THE UNIT.
- B. **ERV CONTROL:**
  1. UNOCCUPIED: THE ERV FANS SHALL BE OFF AND THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE CLOSED.
  2. OCCUPIED (ERV-1 & ERV-2): THE ERV EXHAUST AIR AND OUTSIDE AIR DAMPERS SHALL BE OPEN. THE ERV SUPPLY FAN SHALL START AND RUN CONTINUOUSLY AT 50% SPEED (ADJ.). AS CO2 LEVELS RISE ABOVE 1000 PPM (ADJUSTABLE) DETERMINED BY THE RETURN AIR DUCT MOUNTED CO2 SENSOR THE SUPPLY FAN SHALL RAMP UP SPEED IN PROPORTION WITH CO2 LEVEL RISE. WHEN CO2 LEVELS FALL BELOW 1000 PPM (ADJ.) THE FAN SHALL RETURN TO THE MINIMUM 50% SPEED.
  3. OCCUPIED (ERV-3): THE ERV EXHAUST AIR AND OUTSIDE AIR DAMPERS SHALL BE OPEN. THE ERV SUPPLY FAN SHALL START AND RUN CONTINUOUSLY AT LOW SPEED. AS CO2 LEVELS RISE ABOVE 1000 PPM (ADJUSTABLE) DETERMINED BY THE RETURN AIR DUCT MOUNTED CO2 SENSOR THE SUPPLY FAN SHALL SWITCH TO HIGH SPEED. WHEN CO2 LEVELS FALL BELOW 1000 PPM (ADJ.) THE FAN SHALL RETURN TO LOW SPEED.
- C. **ELECTRIC DUCT HEATER CONTROL:**
  1. THE ELECTRIC DUCT HEATER SHALL ENERGIZE WHEN THE ASSOCIATED ERV SUPPLY FAN IS OPERATIONAL AND MODULATE TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 68°F (ADJ.).

1 **TYPICAL ERV VENTILATION SCHEMATIC**  
SCALE: 1/2" = 1'-0"

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
<b>MECHANICAL SCHEDULES &amp; SEQUENCE OF OPERATIONS</b>				
DATE	2022.08.15	SCALE	As indicated	
DRAWN BY	JNB	DESIGNED BY	JNB	CHECKED BY
PROJECT No.	11395.013			
DRAWING NO.	<b>M-601</b>			

**GENERAL ELECTRICAL NOTES**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NFPA 70, NATIONAL ELECTRICAL CODE (NEC), OSHA REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF THE PERTINENT FEDERAL, STATE, COUNTY, AND CITY AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE, IES AND NEMA STANDARDS. WHERE APPLICABLE, PROVIDE ONLY MATERIALS THAT ARE U.L. LISTED AND LABELED.
- PROVIDE ALL NECESSARY ACCESSORIES REQUIRED TO MEET THE INTENT OF THE CONTRACT DRAWINGS.
- ALL GENERAL NOTES, SYMBOL LISTS, ABBREVIATIONS AND DETAILS ARE TO BE CONSIDERED APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT.
- WHERE A DISCREPANCY OCCURS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL PREVAIL. CONTACT THE ENGINEER FOR CLARIFICATION WHEN SUCH A SITUATION OCCURS.
- WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY. ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL/CIVIL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT AND DEVICES, AND FURNITURE REQUIREMENTS, PRIOR TO ROUGHING IN FOR SAME.
- GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS; PAY ALL GOVERNMENT AND STATE SALES TAXES AND FEES WHERE APPLICABLE, AND OTHER COSTS, INCLUDING UTILITIES CONNECTIONS OR EXTENSIONS IN CONNECTION WITH THE PROJECT SCOPE OF WORK. FILE ALL NECESSARY DRAWINGS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL AND STATE DEPARTMENTS HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTIONS FOR PROJECT SCOPE OF WORK AND DELIVER A COPY TO THE ENGINEER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENTS FOR THE PROJECT SCOPE OF WORK.
- COOPERATE FULLY WITH SEPARATE CONTRACTORS SO WORK ON THOSE CONTRACTS MAY BE CARRIED OUT SMOOTHLY, WITHOUT INTERFERING WITH DELAYING WORK UNDER THIS CONTRACT. COORDINATE THE WORK OF THIS CONTRACT WITH WORK PERFORMED UNDER SEPARATE CONTRACTS.
- EACH CONTRACTOR SHALL COORDINATE ITS CONSTRUCTION OPERATIONS WITH THOSE OF OTHER CONTRACTORS AND ENTITIES TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. EACH CONTRACTOR SHALL COORDINATE ITS OPERATIONS WITH OPERATIONS, INCLUDED IN DIFFERENT SECTIONS, THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION. SCHEDULE CONSTRUCTION OPERATIONS IN SEQUENCE REQUIRED TO OBTAIN THE BEST RESULTS WHERE INSTALLATION OF ONE PART OF THE WORK DEPENDS ON INSTALLATION OF OTHER COMPONENTS, BEFORE OR AFTER ITS OWN INSTALLATION. COORDINATE INSTALLATION OF DIFFERENT COMPONENTS WITH OTHER CONTRACTORS TO ENSURE MAXIMUM PERFORMANCE AND ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE, AND REPAIR. MAKE ADEQUATE PROVISIONS TO ACCOMMODATE ITEMS SCHEDULED FOR LATER INSTALLATION.
- IF COMPLIANCE WITH TWO OR MORE STANDARDS OR DIRECTIVES IS SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES AND LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ARCHITECT/ENGINEER FOR A DECISION BEFORE PROCEEDING.
- THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, INDICATED NUMERIC VALUES ARE MINIMUM OR MAXIMUM, AS APPROPRIATE, FOR THE CONTEXT OF REQUIREMENTS. REFER UNCERTAINTIES TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
- DELIVER, STORE, AND HANDLE PRODUCTS USING MEANS AND METHODS THAT WILL PREVENT DAMAGE, DETERIORATION, AND LOSS, INCLUDING THEFT. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND GENERALLY ACCEPTED CONSTRUCTION PRACTICE.
- WARRANTY EQUIPMENT AND INSTALLATIONS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION OF PROJECT
- EACH CONTRACTOR SHALL ASSIGN REPRESENTATIVES WITH EXPERTISE AND AUTHORITY TO ACT ON ITS BEHALF AND SHALL SCHEDULE THEM TO PARTICIPATE IN AND PERFORM COMMISSIONING PROCESS ACTIVITIES FOR ALL NEW EQUIPMENT AND SYSTEMS.
- PREPARE PROJECT SPECIFIC INFORMATION TO BE SUBMITTED AS SHOP DRAWINGS FOR PROJECT. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL EQUIPMENT AND MATERIALS TO BE USED ON PROJECT. SUBMITTALS SHALL BE DRAWN ACCURATELY AND TO SCALE. DO NOT BASE SHOP DRAWINGS ON REPRODUCTIONS OF THE CONTRACT DOCUMENTS OR STANDARD PRINTED DATA. SUBMIT SHOP DRAWINGS IN QUANTITIES AS REQUIRED BY ARCHITECT.
- THE EXISTENCE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AND CONSTRUCTION INDICATED AS EXISTING ARE NOT GUARANTEED. BEFORE BEGINNING WORK, INVESTIGATE AND VERIFY THE EXISTENCE AND LOCATION OF UTILITIES, MECHANICAL AND ELECTRICAL, SYSTEMS, AND OTHER CONSTRUCTION AFFECTING THE WORK. ADVISE ARCHITECT OF CONFLICTS OR DEFICIENCIES PRIOR TO STARTING WORK.
- TAKE FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE INSTALLING EACH PRODUCT. WHERE PORTIONS OF THE WORK ARE INDICATED TO FIT TO OTHER CONSTRUCTION, VERIFY DIMENSIONS OF OTHER CONSTRUCTION BY FIELD MEASUREMENTS BEFORE FABRICATION. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK. VERIFY SPACE REQUIREMENTS AND DIMENSIONS OF ITEMS SHOWN DIAGRAMMATICALLY ON DRAWINGS IMMEDIATELY ON DISCOVERY OF THE NEED FOR CLARIFICATION OF THE CONTRACT DOCUMENTS. SUBMIT A REQUEST FOR INFORMATION TO ENGINEER. INCLUDE A DETAILED DESCRIPTION OF PROBLEM ENCOUNTERED, TOGETHER WITH RECOMMENDATIONS FOR CHANGING THE CONTRACT DOCUMENTS.
- COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLING PRODUCTS IN APPLICATIONS INDICATED.
- CONDUCT CONSTRUCTION OPERATIONS SO NO PART OF THE WORK IS SUBJECTED TO DAMAGING OPERATIONS OR LOADING IN EXCESS OF THAT EXPECTED DURING NORMAL CONDITIONS OF OCCUPANCY.
- KEEP INSTALLED WORK CLEAN. CLEAN INSTALLED SURFACES ACCORDING TO WRITTEN INSTRUCTIONS OF MANUFACTURER OR FABRICATOR OF PRODUCT INSTALLED, USING ONLY CLEANING MATERIALS SPECIFICALLY RECOMMENDED. IF SPECIFIC CLEANING MATERIALS ARE NOT RECOMMENDED, USE CLEANING MATERIALS THAT ARE NOT HAZARDOUS TO HEALTH OR PROPERTY AND THAT WILL NOT DAMAGE EXPOSED SURFACES.
- DURING HANDLING AND INSTALLATION, CLEAN AND PROTECT CONSTRUCTION IN PROGRESS AND ADJOINING MATERIALS ALREADY IN PLACE. APPLY PROTECTIVE COVERING WHERE REQUIRED TO ENSURE PROTECTION FROM DAMAGE OR DETERIORATION AT SUBSTANTIAL COMPLETION.
- CLEAN AND PROVIDE MAINTENANCE ON COMPLETED CONSTRUCTION AS FREQUENTLY AS NECESSARY THROUGH THE REMAINDER OF THE CONSTRUCTION PERIOD. ADJUST AND LUBRICATE OPERABLE COMPONENTS TO ENSURE OPERABILITY WITHOUT DAMAGING EFFECTS.
- START EQUIPMENT AND OPERATING COMPONENTS TO CONFIRM PROPER OPERATION. REMOVE MALFUNCTIONING UNITS, REPLACE WITH NEW UNITS, AND RETEST. ADJUST OPERATING COMPONENTS FOR PROPER OPERATION WITHOUT BINDING. ADJUST EQUIPMENT FOR PROPER OPERATION. TEST EACH PIECE OF EQUIPMENT TO VERIFY PROPER OPERATION. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.
- PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS THAT ENSURE INSTALLED WORK IS WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.
- THE COST OF CORRECTIVE WORK SHALL BE INCLUDED UNDER THE CONTRACT.
- SEAL CONDUIT AND CABLE PENETRATIONS WITH APPROVED FIRESTOP MATERIALS. REFER TO DIVISION 7 SECTION "THROUGH-PENETRATION FIRESTOP SYSTEMS" FOR MATERIALS.
- INSTALL EQUIPMENT TO ALLOW MAXIMUM POSSIBLE HEADROOM UNLESS SPECIFIC MOUNTING HEIGHTS ARE INDICATED. INSTALL EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS IN EXPOSED INTERIOR SPACES, UNLESS OTHERWISE INDICATED. INSTALL ELECTRICAL EQUIPMENT TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE TO OTHER INSTALLATIONS.
- ELECTRICAL AND SYSTEMS CONTRACTOR SHALL COORDINATE HIS WORK WITH GENERAL, HVAC, FIRE PROTECTION PLUMBING CONTRACTORS AND VENDORS AND SHALL MAKE NECESSARY ADJUSTMENTS OR CHANGES TO FACILITATE INSTALLATION OF EQUIPMENT IN SPACES AVAILABLE.
- ACCESS PANELS SHALL BE PROVIDED BY ELECTRICAL AND SYSTEMS CONTRACTOR FOR ALL ITEMS REQUIRING INSPECTION OR MAINTENANCE OR AS REQUIRED BY CODE. ACCESS PANELS SHALL BE OF SUFFICIENT SIZE AND LOCATED SO THAT THE CONCEALED ITEMS MAY BE SERVICED AND MAINTAINED OR COMPLETELY REMOVED AND REPLACED. MINIMUM SIZE OF PANEL SHALL BE 12" BY 12". PANELS SHALL BE COMPLETE WITH IDENTIFYING LABELS.
- ELECTRICAL CONTRACTOR SHALL KEEP AN UP TO DATE SET OF "AS-BUILT" RECORD DRAWINGS ON SITE AT ALL TIMES. AT PROJECT COMPLETION PROVIDE THE OWNER, ARCHITECT AND THE ENGINEER WITH A COMPLETE SET OF CONTRACT DRAWINGS WITH ALL FIELD CHANGES IN CAD FORMAT ALONG WITH A PDF SET AND A FULL SIZE PRINT.
- ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUCTORS, CABLES AND ETC. SHALL BE U.L. LABELED AND LISTED FOR THE APPLICATION IN WHICH IT IS BEING USED.
- CONTRACTOR SHALL PREPARE OPERATION AND MAINTENANCE MANUALS FOR BUILDING OWNER. OPERATION AND MAINTENANCE MANUALS SHALL INCLUDE SHOP DRAWING SUBMITTALS AND OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT AND SYSTEM INSTALLED FOR PROJECT. OWNER SHALL BE PROVIDED WITH 3 COPIES OF OPERATION AND MAINTENANCE MANUALS.

- STANDARDS**
- ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING:
    - LATEST ADOPTED MAINE UNIFIED BUILDING CODE "MUBEC"
    - NATIONAL ELECTRICAL CODE, LATEST APPROVED EDITION.
    - ANY AND ALL FEDERAL, STATE AND/OR LOCAL CODES, APPLICABLE ORDINANCES AND REGULATIONS.
    - LATEST APPROVED STANDARDS OF IEEE, ANSI, NEMA AND NFPA.
    - LOCAL UTILITY AND TELEPHONE COMPANY REGULATIONS.
    - BCSI TDMM, LATEST EDITION.
    - ALL EQUIPMENT SHALL BE NEW AND U.L. LISTED WHERE LISTING IS AVAILABLE.

- SUBSTITUTIONS**
- WHERE EQUIPMENT AND MATERIALS ARE INDICATED "OR EQUIVALENT" SUBSTITUTION OF ITEMS EQUAL IN QUALITY, PERFORMANCE, RATING AND APPEARANCE WILL BE PERMITTED UPON SPECIFIC REVIEW IN WRITING BY THE ENGINEERS BEFORE INSTALLATION. SPECIFIC CRITERIA FOR SUBSTITUTION OF CERTAIN EQUIPMENT ARE DEFINED ELSEWHERE.
  - IN ALL CASES, THE RIGHT IS RESERVED TO REQUIRE ADEQUATE PROOF OF THE EQUALITY AND ACCEPTABILITY OF THE SUBSTITUTE BEFORE PERMITTING ITS USE. THE CONTRACTOR SHALL ASSUME THE COST AND THE ENTIRE RESPONSIBILITY FOR ANY CHANGES IN ANY PHASE OF BUILDING CONSTRUCTION, AS SHOWN ON THE CONTRACT DRAWINGS OR REQUIRED BY THE SPECIFICATIONS, WHICH MAY BE OCCASIONED BY REVIEW OF MATERIALS AND EQUIPMENT OTHER THAN THAT SPECIFIED.

**WIRING DEVICES LEGEND**

- DUPLEX RECEPTACLE 20AMP, 125VOLT CONNECTED TO CIRCUIT #3, NORMAL POWER
- DUPLEX RECEPTACLE MOUNTED AT COUNTER HEIGHT
- QUADRAPLEX RECEPTACLE
- USB - DUPLEX RECEPTACLE WITH TWO USB CHARGING PORTS
- TAMPERPROOF DUPLEX RECEPTACLE
- POWER RECEPTACLE AS NOTED ON PLAN
- DUPLEX RECEPTACLE CONNECTED TO 120V EMERGENCY CIRCUIT EMERGENCY SYSTEM RECEPTACLES SHALL HAVE INDICATION OF PANELBOARD AND CIRCUIT NUMBER SUPPLYING THEM.
- QUADRAPLEX RECEPTACLE CONNECTED TO 120V EMERGENCY CIRCUIT EMERGENCY SYSTEM RECEPTACLES SHALL HAVE INDICATION OF PANELBOARD AND CIRCUIT NUMBER SUPPLYING THEM.
- RETRACTABLE QUAD OUTLET FROM CEILING MOUNTED JUNCTION BOX
- SINGLE POLE, 20 AMP, TOGGLE SWITCH CONTROLLING LIGHTS
- THREE WAY SWITCH (20 AMP)
- FOUR WAY SWITCH (20 AMP)
- DIMMER SWITCH
- EMERGENCY SHUT-OFF SWITCH
- MANUAL MOTOR STARTER (THERMAL OVERLOAD SWITCH)
- TOGGLE SWITCH WITH PILOT LIGHT (20 AMP)
- KEYED TOGGLE SWITCH (20 AMP)
- LOW VOLTAGE SWITCH (X\*) DENOTES THE NUMBER OF ZONE CONTROL BUTTONS ON THE SWITCH

- DUAL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR (1) DENOTES SINGLE, (2) DENOTES DOUBLE POLE. A LOWER CASE LETTER INDICATES SWITCH CONTROLLING
- DIMMABLE OCCUPANCY SENSOR
- CEILING MTD OCCUPANCY SENSOR - "V" INDICATES SENSOR TO OPERATE AS VACANCY SENSOR
- WIRELESS SYSTEM ANTENNA
- TELEVISION OUTLET WITH 3/4" CONDUIT WITH PULL STRING STUBBED UP TO CEILING SPACE
- SEMI-FLUSH WALL MOUNTED, 120 VOLT, 3 WIRE SYNCHRONOUS 1224 HOUR ANALOG FACED CLOCK - INTERCONNECT TO THE NEAREST RECEPTACLE CIRCUIT
- FLUSH POKE-THRU FLOOR WITH DUPLEX RECEPTACLE, TELEPHONE/DATA OUTLETS AND SERVICE FITTINGS, AS INDICATED
- SPECIAL PURPOSE RECEPTACLE AS INDICATED ON PLANS (REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE)
- ISOLATED GROUND
- GFI GROUND FAULT CIRCUIT INTERRUPTER

- FIRE ALARM SYSTEM LEGEND**
- FIRE ALARM SYSTEM COMBINATION HORNIADA APPROVED STROBE LIGHT SIGNAL UNIT (75CD UNLESS NOTED OTHERWISE)
  - FIRE ALARM SYSTEM DUAL ACTION MANUAL PULL STATION
  - FIRE ALARM SYSTEM ADA APPROVED STROBE LIGHT SIGNAL UNIT (75CD UNLESS NOTED OTHERWISE)
  - DUCT SMOKE DETECTOR
  - FIRE ALARM SYSTEM SMOKE DETECTOR.
  - FIRE ALARM SYSTEM COMBINATION 135°F FIXED TEMPERATURE/RATE OF RISE HEAT DETECTOR. "F" INDICATES 190°F FIXED TEMPERATURE.

- FIRE ALARM SYSTEM BELL
- SPRINKLER SYSTEM WATER FLOW SWITCH
- SPRINKLER SYSTEM VALVE TAMPER SWITCH
- MAGNETIC DOOR HOLDER/CLOSER
- REMOTE TEST INDICATOR
- FIRE ALARM CONTROL PANEL
- FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL
- FIRE ALARM KEY BOX
- AUDIO AND VISUAL ALARM DEVICES SHALL BE MOUNTED 80" ABOVE

- COMMUNICATION DEVICES LEGEND**
- 4"x4" SINGLE GANG OUTLET MOUNTED AT 12" AFF, UO, WITH A 1" CONDUIT STUBBED ABOVE AN ACCESSIBLE CEILING AND (1) CAT 6 CABLE ROUTED BACK TO THE TEL/DATA ROOM SERVING LOCATION.
  - 4"x4" SINGLE GANG OUTLET MOUNTED AT 12" AFF, UO, WITH A 1" CONDUIT STUBBED ABOVE AN ACCESSIBLE CEILING AND (2) CAT 6 CABLE ROUTED BACK TO THE TEL/DATA ROOM SERVING LOCATION.
  - 4"x4" SINGLE GANG OUTLET MOUNTED AT 12" AFF, UO, WITH A 1 1/4" CONDUIT STUBBED ABOVE AN ACCESSIBLE CEILING AND (4) CAT 6 CABLE ROUTED BACK TO THE TEL/DATA ROOM SERVING LOCATION.

**POWER ON-LINE LEGEND**

- POWER TRANSFORMER
- POWER TRANSFORMER
- V.T. VOLTAGE TRANSFORMERS
- CURRENT TRANSFORMERS
- FUSE
- GROUND FAULT SENSOR & RELAY
- AMPMETER SWITCH
- AMPMETER
- VOLTMETER SWITCH
- VOLTMETER
- WATT HOUR METER
- DRAWOUT CIRCUIT BREAKER
- "AF" - INDICATES AMPERE FRAME SIZE
- "AT" - INDICATES AMPERE TRIP SETTINGS
- M.C.B. MODIFIED CASE CIRCUIT BREAKER
- "AF" - INDICATES AMPERE FRAME SIZE "AT" - INDICATES AMPERE TRIP SETTINGS
- SWITCH AND FUSE "400A" - INDICATES AMPERE SWITCH SIZE "300A" - INDICATES AMPERE FUSE SIZE
- SYSTEM GROUND OR EQUIPMENT GROUND
- LIGHTNING ARRESTER AND GROUNDING
- PRIMARY DISCONNECT SWITCH (BOLTED PRESSURE TYPE)
- AUTOMATIC TRANSFER SWITCH
- MONITORING AND PROTECTIVE DEVICE
- KILOWATT HOUR METER

**EQUIPMENT LEGEND**

- HEAVY DUTY FUSED DISCONNECT
- NEMA RATING (NEMA 1 UNLESS OTHERWISE NOTED)
- SWITCH SIZE
- TIME DELAY FUSE (INDICATES FUSE SIZED PER MANUFACTURERS RECOMMENDATIONS)
- VOLTAGE (SEE CIRCUITING FOR # OF POLES)
- HEAVY DUTY UNFUSED DISCONNECT
- NEMA RATING (NEMA 1 UNLESS OTHERWISE NOTED)
- SWITCH SIZE
- VOLTAGE (SEE CIRCUITING FOR # OF POLES)
- HEAVY DUTY FUSED MOTOR STARTER AND DISCONNECT
- NEMA RATING
- TIME DELAY FUSE
- VOLTAGE
- MOTOR - NUMERICAL DENOTES HORSEPOWER
- JUNCTION BOX - CEILING AND WALL MOUNTED RESPECTIVELY
- JUNCTION BOX WITH CONNECT TO DEVICE
- SURFACED MOUNTED ELAPSED TIME CLOCK WITH FLUSH MOUNTED CONTROLLER MOUNTED BELOW
- AUTOMATIC DOOR PUSH BUTTON FURNISHED AND INSTALLED BY OTHERS, WIRED BY THE ELECTRICAL CONTRACTOR, VERIFY EXACT REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGHING-IN
- PULL BOX - SIZE PER ELECTRIC CODE
- CONTROL PANEL
- LIGHTING CONTACTOR
- TIME CLOCK
- TIMER
- CONTACTOR
- VARIABLE FREQUENCY DRIVE

**BUILDING GROUNDING GRID LEGEND**

- GROUNDING CABLE EXPOSED
- GROUNDING CABLE BURIED
- LIGHTNING PROTECTION ROD
- GROUND ROD
- EXOTHERMIC BONDING CONNECTION
- BOLTED BONDING CONNECTION
- COPPER GROUND BAR

**SOUND SYSTEM LEGEND**

- AMP SOUND SYSTEM SUB-AMPLIFIER
- V.C. VOLUME CONTROL SWITCH - WALL MOUNTED
- S.P. SPEAKER-CEILING MOUNTED, "V" INDICATES WITH VOLUME CONTROL

**SECURITY DEVICES LEGEND**

- WALL MOUNTED CARD READER
- WALL MOUNTED KEY PAD
- DOOR CONTACTS
- MOTION SENSOR
- GLASS BREAK SENSOR
- ELECTRIC DOOR LOCK, EITHER STRIKE OR LATCH, CONTRACTOR SHALL VERIFY WITH THE DOOR AND SECURITY VENDOR.
- REQUEST TO EXIT DEVICE
- VIDEO CAMERA
- DESK MOUNTED PUSH/PANIC BUTTON
- WALL MOUNTED PUSH/PANIC BUTTON
- SECURITY PANEL
- DESK MOUNTED DOOR RELEASE BUTTON
- WALL MOUNTED DOOR RELEASE BUTTON
- WALL MOUNTED TWO WAY INTERCOM
- WALL MOUNTED TWO WAY INTERCOM WITH VIDEO CAPABILITIES

**LIGHTING EQUIPMENT LEGEND**

- (REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION)
- CEILING OUTLET AND 2x4" LED LIGHTING FIXTURE TYPE "A", CONTROLLED BY SWITCH "W" AND CONNECTED TO CIRCUIT NUMBER "Z"
  - CEILING OUTLET AND 2x2" LED LIGHTING FIXTURE
  - CEILING OUTLET AND LED LIGHTING FIXTURE
  - WALL PACK
  - LED CHANNEL/STRIP LIGHT, SUSPENDED, CHAIN-HUNG
  - CEILING OUTLET AND LED
  - WALL OUTLET AND LED
  - CEILING PENDANT
  - WALL SCONCE
  - EMERGENCY (LIFE SAFETY) LIGHTING FIXTURES - "NL" DENOTES NIGHT LIGHT, "EM" DENOTES BATTERY PACK
  - EMERGENCY (CRITICAL) LIGHTING FIXTURES
  - EXIT LIGHT FIXTURE, CEILING AND WALL MOUNT RESPECTIVELY, SHADING INDICATES DIRECTION OF FACES, DIRECTIONAL ARROWS AS INDICATED ON PLANS.

**CIRCUITRY, RACEWAYS AND FEEDERS LEGEND**

- HOMERUN TO PANEL "LP2", CIRCUIT #1, 3.5 (VIA 20A-1P C/B'S), TICKS INDICATE QUANTITY OF #12AWG, (CU.) CONDUCTORS. GROUNDING CONDUCTORS ARE NOT INDICATED IN TICKS. PROVIDE GROUNDING CONDUCTOR IN ACCORDANCE WITH SPECIFICATIONS.
- FEEDER SIZE TAG SYMBOL. REFER TO "LEGEND OF FEEDER SIZES".
- CIRCUITRY TURNING UP
- CIRCUITRY TURNING DOWN
- 1 3/4"x4 3/4" SECTION SURFACE METAL RACEWAY WITH FULL SIZE DEVICES AS INDICATED ..... ON CENTER.
- CABLE TRAY

**ELECTRICAL ABBREVIATIONS**

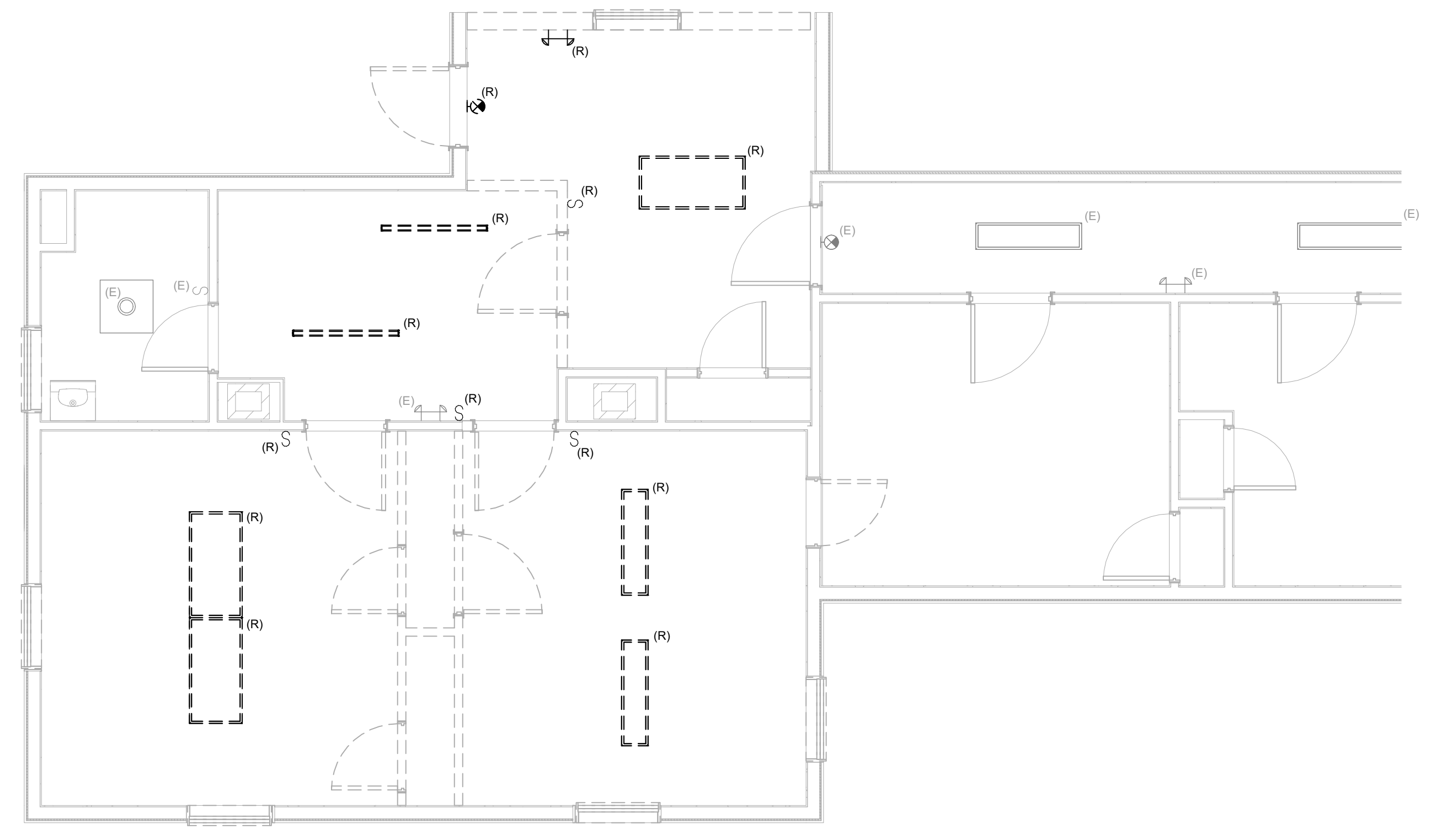
- A AMPERES
- ACC WIRELESS ACCESS POINT
- ADA AMERICANS WITH DISABILITIES ACT
- AFP ABOVE FINISH FLOOR
- AFB ABOVE FINISH GRADE
- AHJ AUTHORITY HAVING JURISDICTION
- AHU AIR HANDLING UNIT
- AIC AMPERE INTERRUPTING CAPACITY
- AL ALUMINUM
- ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
- ARCH ARCHITECT
- ATS AUTOMATIC TRANSFER SWITCH
- ATC AUTOMATIC TEMPERATURE CONTROL
- AWG AMERICAN WIRE GAUGE
- BFG BELOW FINISH GRADE
- BLDG BUILDING
- CONDUIT CONDUIT
- C CATALOG
- CB CIRCUIT BREAKER
- CBM CERTIFIED BALLASTS MANUFACTURERS
- CKT CIRCUIT
- CL CENTERLINE
- CLF CURRENT LIMITING FUSE
- COL COLLUM OR GROUNDING
- CPT CONTROL POWER TRANSFORMER
- CT CVRNT TRANSFORMER
- CU COPPER
- DWG DRAWING
- EF EXHAUST FAN
- EM EMERGENCY
- EMT ELECTRICAL METALLIC TUBING
- EPO EMERGENCY POWER OFF
- EWIC ELECTRIC WATER COOLER
- F FUSE
- FA FIRE ALARM
- FLA FULL LOAD AMPERES
- FMC FLEXIBLE METAL CONDUIT
- FT FEET
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- GND GROUND OR GROUNDING
- GRMC GALVANIZED RIGID METALLIC CONDUIT
- HA HAND, OFF, AUTOMATIC SWITCH
- IEEE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
- IMC INTERMEDIATE METAL CONDUIT
- INT INTERLOCK
- ISO ISOLATED GROUND
- KCMIL THOUSAND CIRCULAR MILS
- KVA KILOVOLT AMPERES
- KW KILOWATTS
- LTG LIGHTING
- LFG LIQUIDTIGHT FLEXIBLE METAL CONDUIT
- MC METAL CLAD CABLE
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MCP MOTOR CIRCUIT PROTECTOR
- MISC MISCELLANEOUS
- MLO MAIN LUGS ONLY
- NC NORMALLY CLOSED
- NEC NATIONAL ELECTRIC CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NO NORMALLY OPEN OR NUMBER
- NTS NOT TO SCALE
- P POLE
- PB PUSHBUTTON
- PNL PANEL
- POS PROVIDED UNDER OTHER SECTIONS
- PVC POLYVINYL CHLORIDE
- PWR POWER
- QTY QUANTITY
- REQ'D REQUIRED
- RMC RIGID METAL CONDUIT
- RMS ROOT MEAN SQUARED
- RNMIC RIGID NON-METALLIC CONDUIT
- RTU ROOF TOP UNIT
- SP SPARE
- SW SWITCH
- SYM SYMMETRICAL
- TEL TELEPHONE
- TMCB THERMAL MAGNETIC CIRCUIT BREAKER
- TP TAMPER PROOF
- TYP TYPICAL
- UG UNDERGROUND OR UNDERGRADE
- UL UNDERWRITERS LABORATORIES
- V VOLT
- VT VOLTAGE TRANSFORMER
- W WIRE
- WH WATER HEATER
- WP WEATHER PROOF
- XFMR TRANSFORMER
- UN UNLESS OTHERWISE NOTED
- Δ DELTA
- WYE WYE
- ∅ PHASE
- G.C. GENERAL CONTRACTOR
- M.C. MECHANICAL CONTRACTOR
- E.C. ELECTRICAL CONTRACTOR
- NL INDICATES NIGHT LIGHT FIXTURE TO BE CONNECTED TO UNSWITCHED SOURCE
- ENERGIZED 24 HOURS A DAY

REV	DATE	DESCRIPTION	BY	CHK
E-001		ABBREVIATIONS, NOTES & SYMBOLS		
E-101		FIRST & SECOND FLOOR ELECTRICAL LIGHTING DEMO PLANS - NORTH		
E-102		FIRST & SECOND FLOOR ELECTRICAL LIGHTING DEMO PLANS - SOUTH		
E-201		BASEMENT, FIRST & SECOND FLOOR ELECTRICAL POWER DEMO PLANS - NORTH		
E-202		FIRST & SECOND FLOOR ELECTRICAL POWER DEMO PLANS - SOUTH		
E-301		FIRST & SECOND FLOOR ELECTRICAL LIGHTING PLANS - NORTH		
E-302		FIRST & SECOND FLOOR ELECTRICAL LIGHTING PLANS - SOUTH		
E-401		BASEMENT, FIRST & SECOND FLOOR ELECTRICAL POWER PLANS - NORTH		
E-402		FIRST & SECOND FLOOR ELECTRICAL POWER PLANS - SOUTH		
E-501		ELECTRICAL ONE-LINE DIAGRAM & DETAILS		
E-601		ELECTRICAL SCHEDULES		

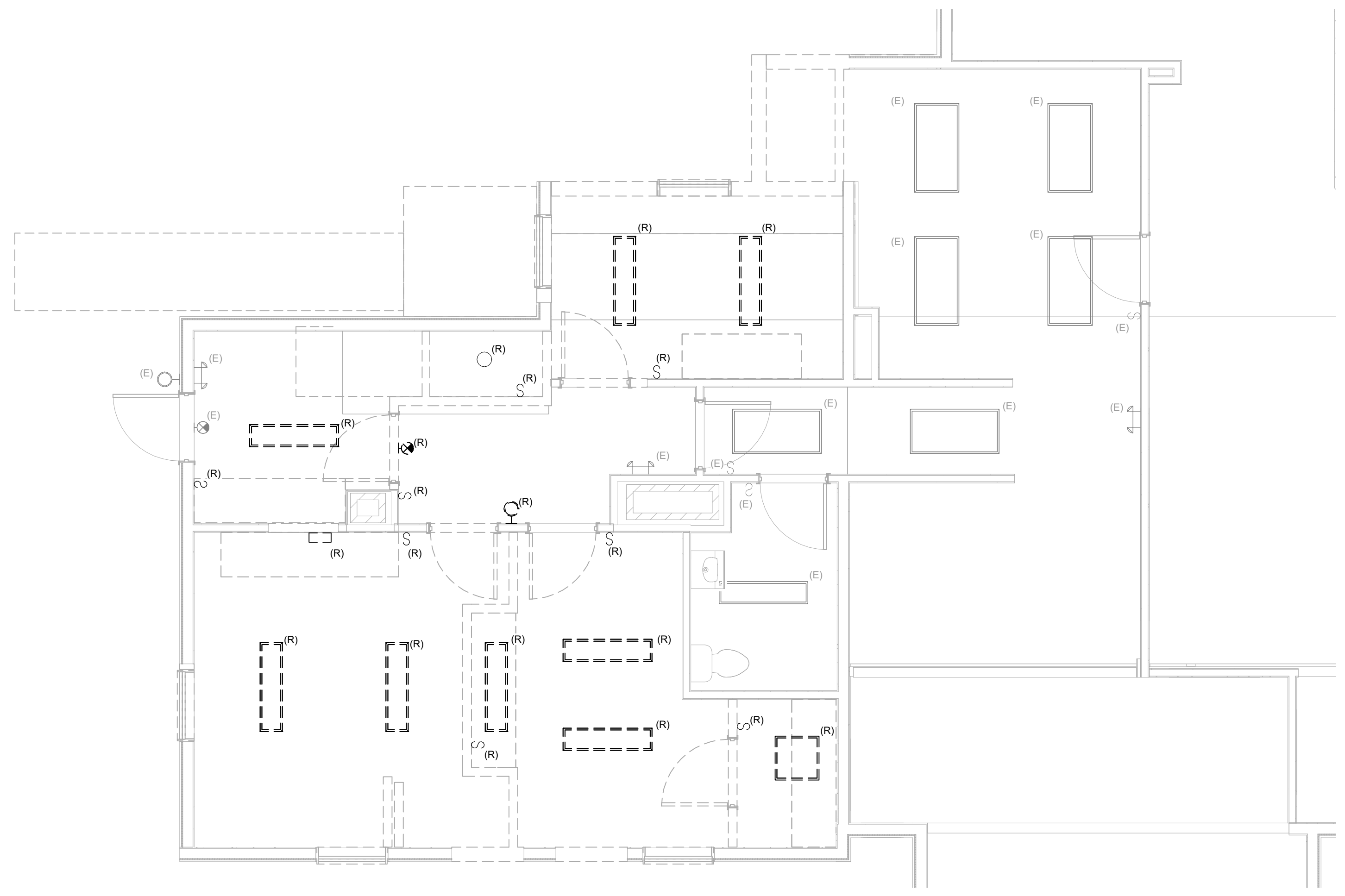
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<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.769.4824 WWW.HALEYWARD.COM			
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>			
<b>ABBREVIATIONS, NOTES &amp; SYMBOLS</b>			
DATE: 2022.08.15 SCALE: As Indicated DRAWN BY: JNB/TJA DESIGNED BY: JNB CHECKED BY: JMM PROJECT NO.: 11395.013 DRAWING NO.: <b>E-001</b>		STATE OF MAINE JARED MERRY No. 11679 LICENSED PROFESSIONAL ENGINEER	



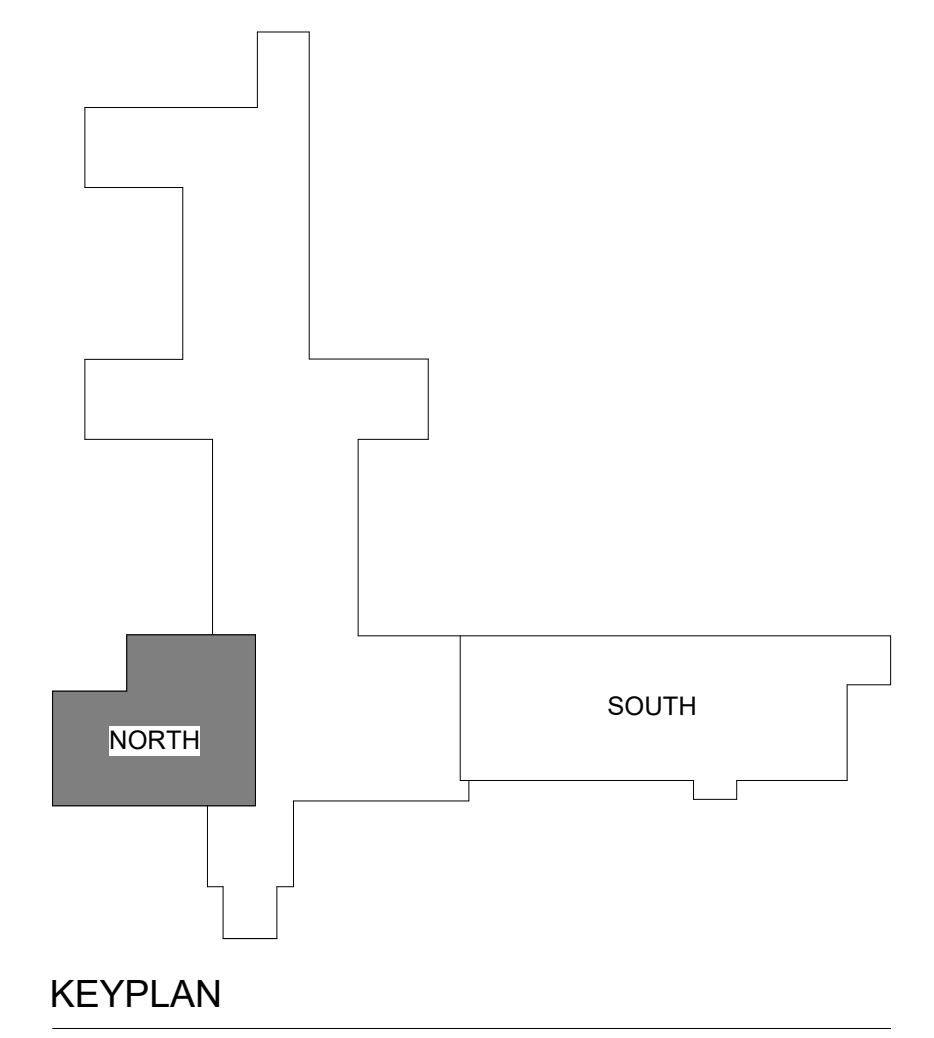
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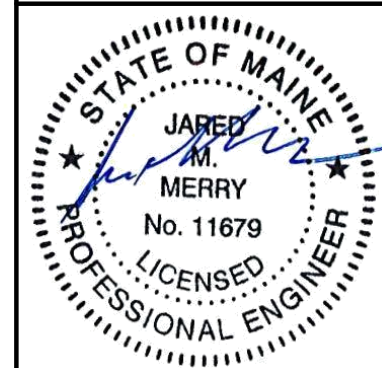
2 SECOND FLOOR ELECTRICAL LIGHTING DEMO PLAN - NORTH  
 E-101 SCALE: 1/4" = 1'-0"



1 FIRST FLOOR ELECTRICAL LIGHTING DEMO PLAN - NORTH  
 E-101 SCALE: 1/4" = 1'-0"



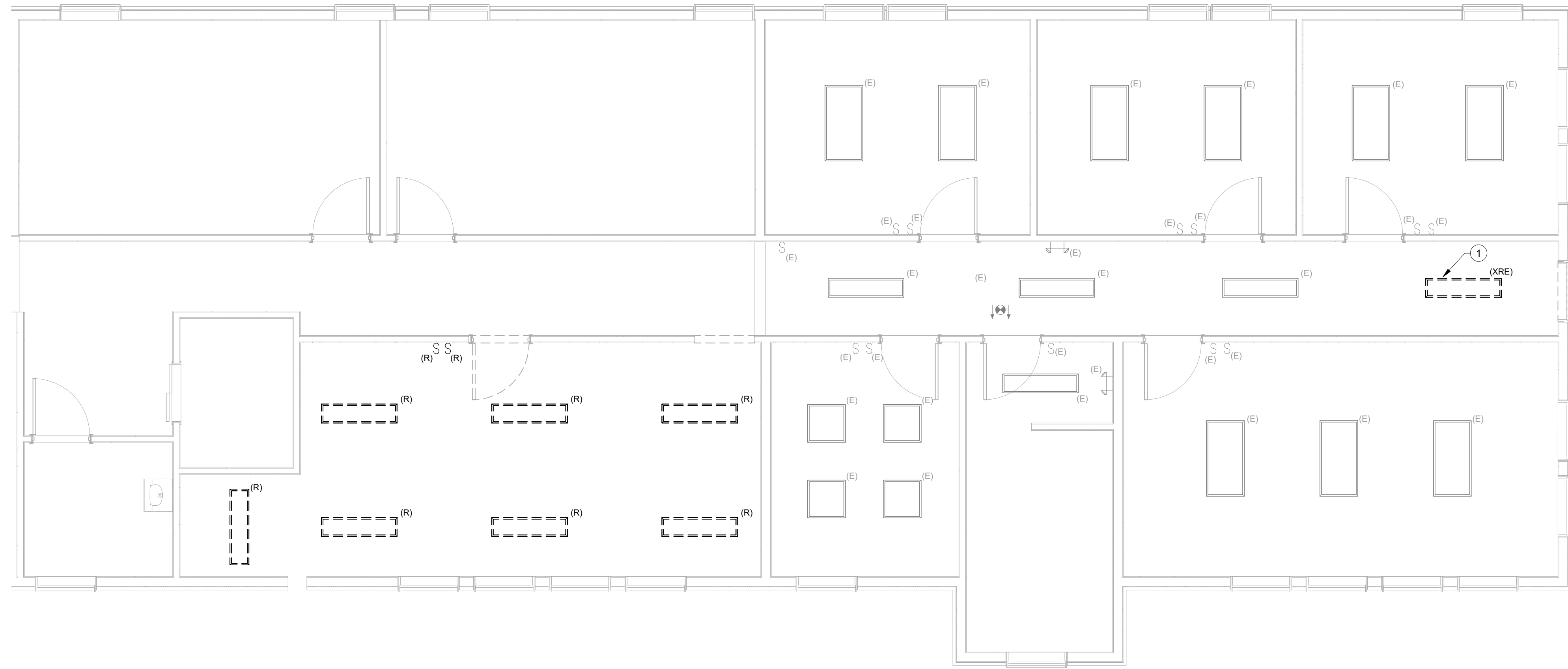
KEYPLAN

REV	DATE	DESCRIPTION	BY	CHK
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<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b>		
ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.789.4824 WWW.HALEYWARD.COM				
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>FIRST &amp; SECOND FLOOR ELECTRICAL LIGHTING DEMO PLANS - NORTH</b>				
DATE		SCALE		1/4" = 1'-0"
DRAWN BY	DESIGNED BY	CHECKED BY		
TJA	JMM	JMM		
PROJECT No.		11395.013		
DRAWING No.		E-101		
				

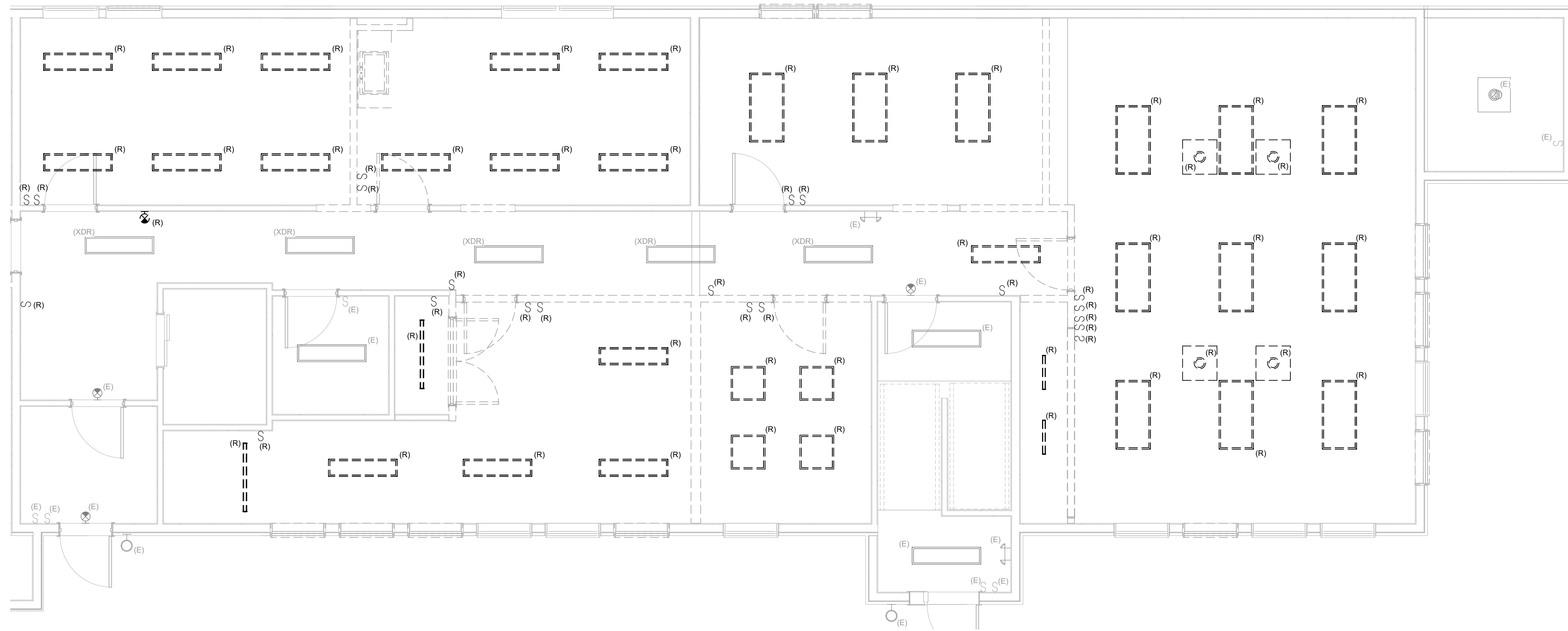
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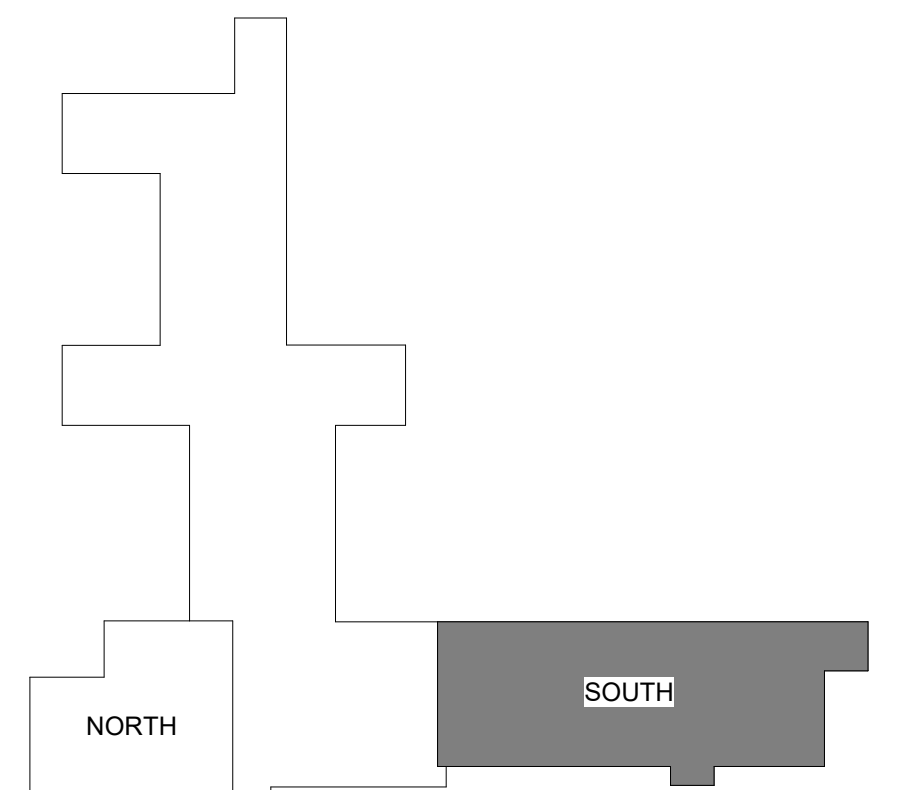
1 TEMPORARILY UNINSTALL EXISTING FIXTURE TO BE MOVED TO A NEW LOCATION.




**2 SECOND FLOOR ELECTRICAL LIGHTING DEMO PLAN - SOUTH**  
SCALE: 1/4" = 1'-0"

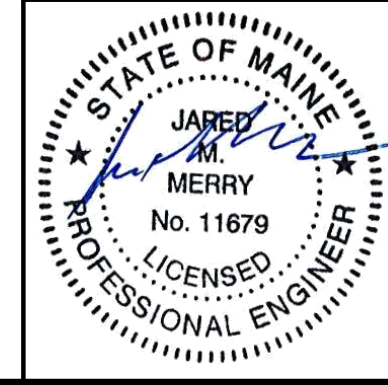


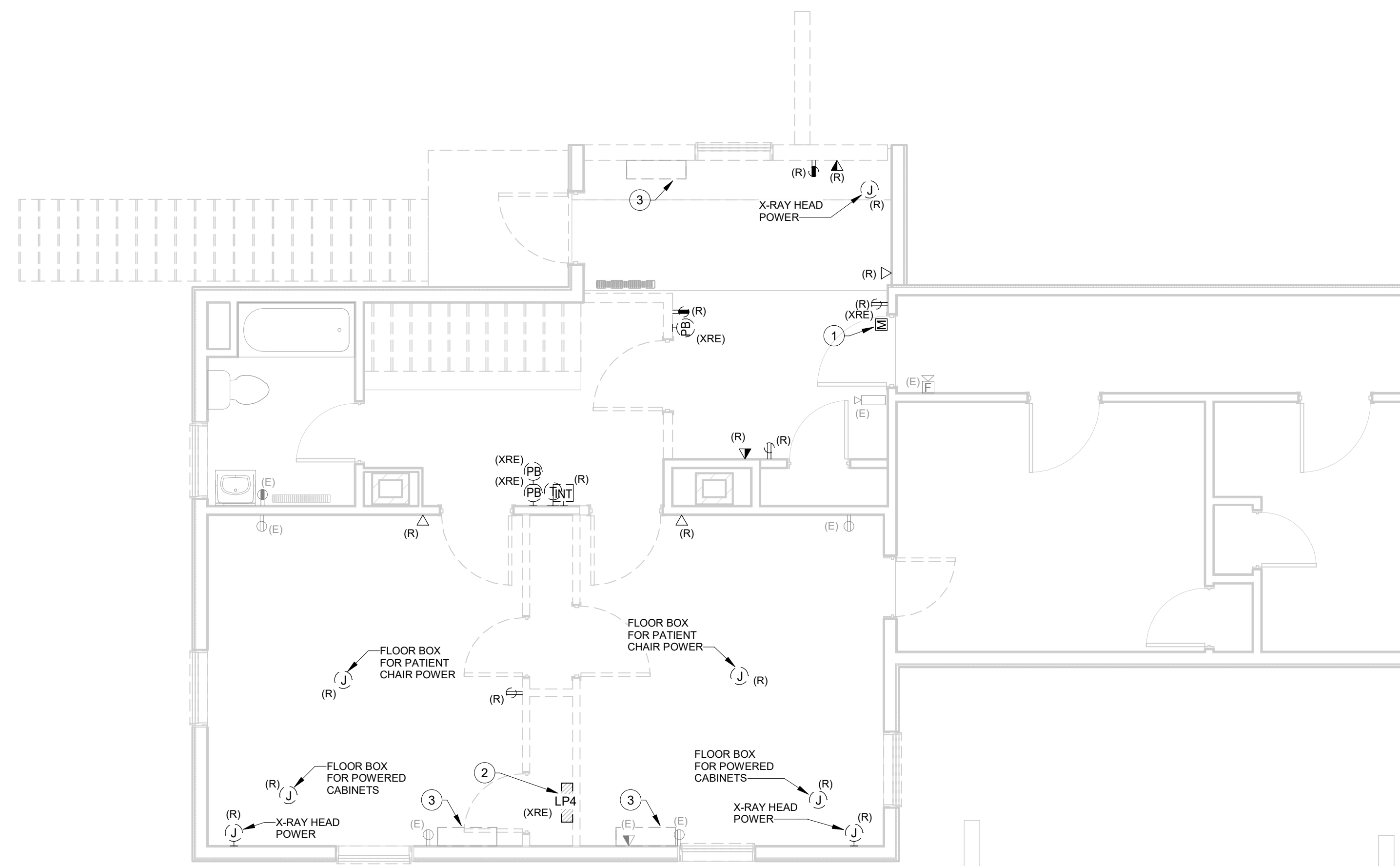
**1 FIRST FLOOR ELECTRICAL LIGHTING DEMO PLAN - SOUTH**  
SCALE: 1/4" = 1'-0"



KEYPLAN

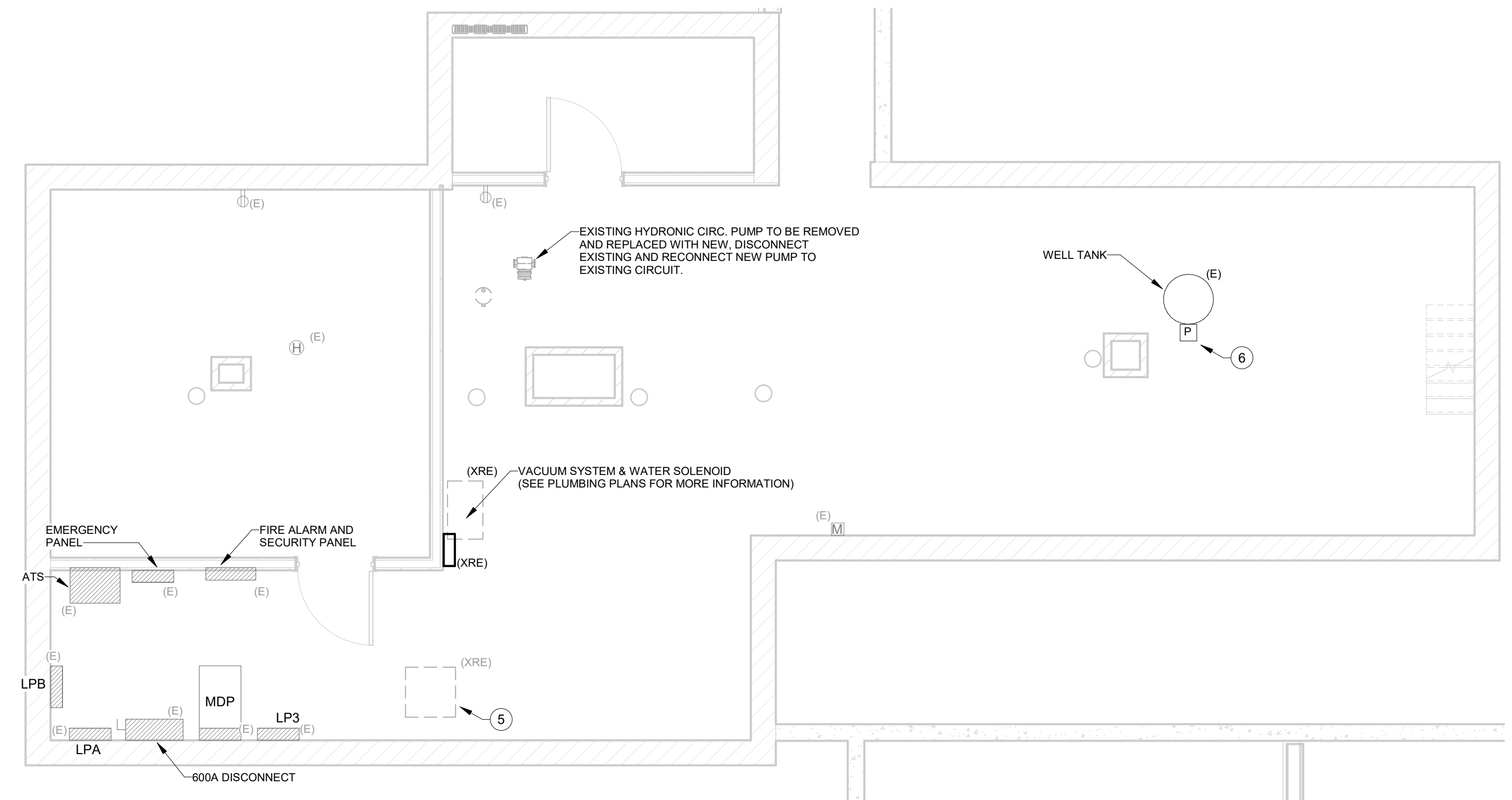
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 <b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.789.4824 WWW.HALEYWARD.COM				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
<b>FIRST &amp; SECOND FLOOR ELECTRICAL LIGHTING DEMO PLANS - SOUTH</b>				
DATE: 2022.08.15		SCALE: 1/4" = 1'-0"		
DRAWN BY: TJA	DESIGNED BY: JMM	CHECKED BY: JMM		
PROJECT No: 11395.013				
DRAWING No: <b>E-102</b>		REV:		





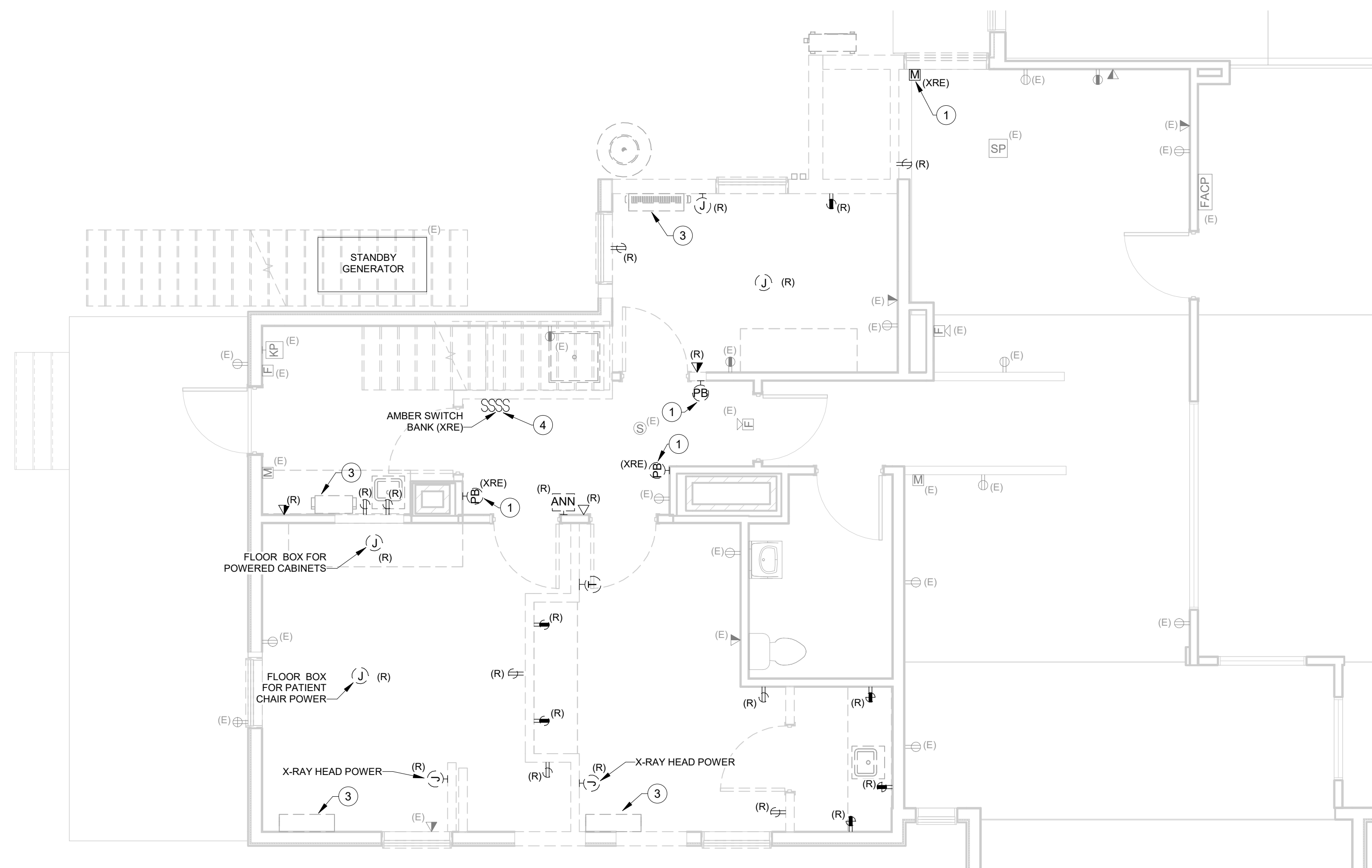
2 SECOND FLOOR ELECTRICAL POWER DEMO PLAN - NORTH

E-201 SCALE: 1/4" = 1'-0"



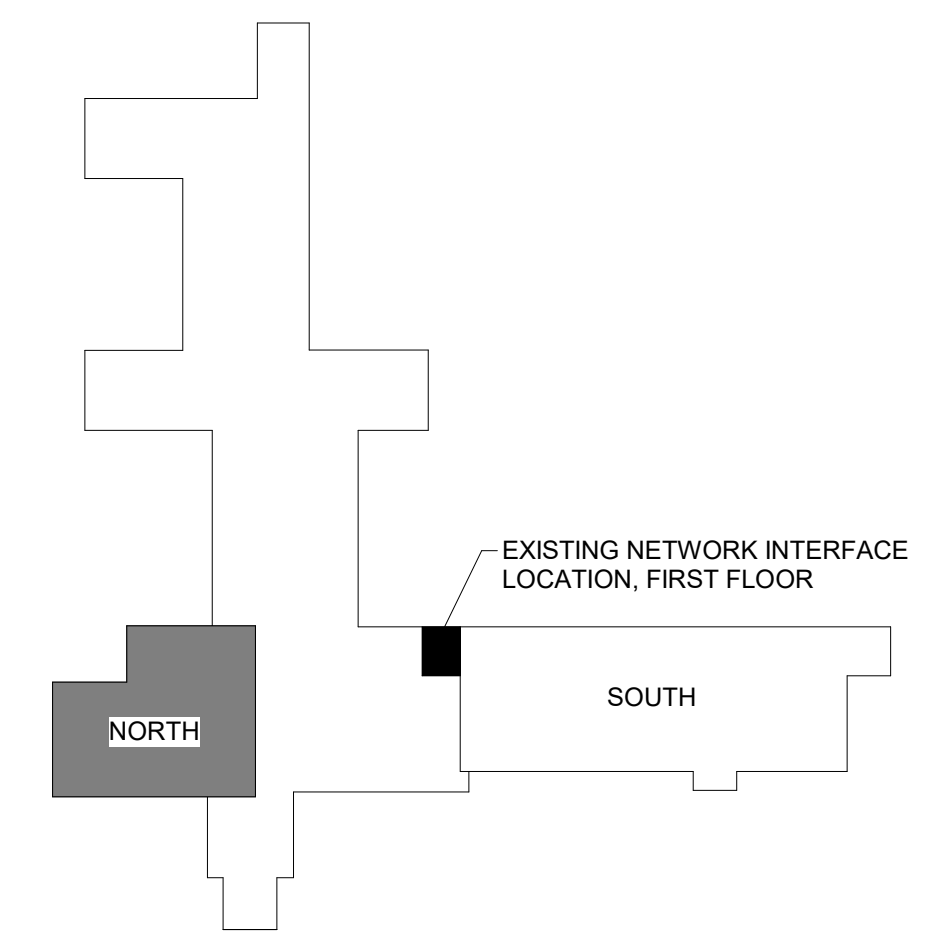
3 ELECTRICAL POWER DEMO PLAN - BASEMENT

E-201 SCALE: 1/4" = 1'-0"



1 FIRST FLOOR ELECTRICAL POWER DEMO PLAN - NORTH

E-201 SCALE: 1/4" = 1'-0"

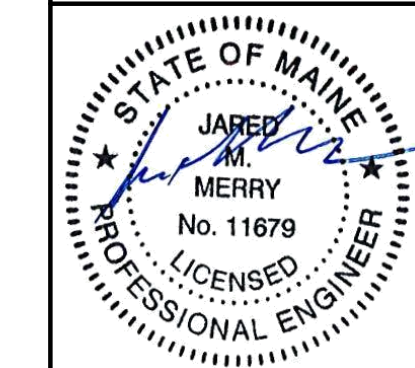


KEYPLAN

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING		
One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824				
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>BASEMENT, FIRST &amp; SECOND FLOOR ELECTRICAL POWER DEMO PLANS - NORTH</b>				
DATE		SCALE		
2022.08.15		1/4" = 1'-0"		
DRAWN BY	DESIGNED BY	CHECKED BY		
TJA	JMM	JMM		
PROJECT No.		11395.013		
DRAWING No.		<b>E-201</b>		

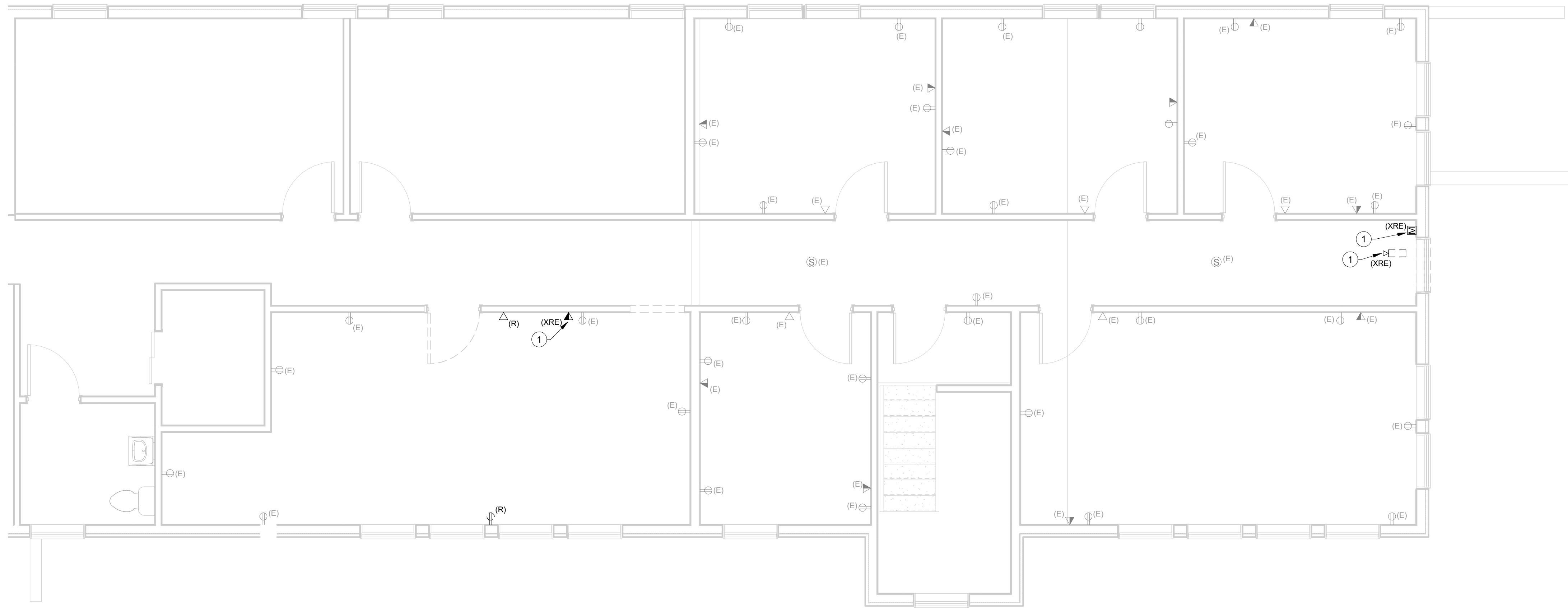
**SHEET E-201 NUMBERED NOTES** #

- 1 RELOCATE EXISTING X-RAY PUSH BUTTON TO NEW DENTISTRY WING, TYP.
- 2 EXISTING PANEL TO BE RELOCATED. DISCONNECT ALL ASSOCIATED CIRCUITS. REROUTE AND RECONNECT EXISTING CIRCUITS AS REQUIRED TO COMPLETE NEW WORK.
- 3 TEMPORARILY DISCONNECT HEAT PUMP CIRCUIT. SEE MECHANICAL SET FOR ENTIRE SCOPE OF WORK.
- 4 SWITCH BANK TO BE RELOCATED TO NEW DENTISTRY WING. RECONNECT TO AIR COMPRESSOR, VACUUM PUMP AND WATER SOLENOID.
- 5 EXISTING DENTAL AIR COMPRESSOR TO BE RELOCATED TO NEW DENTISTRY WING. REMOVE CIRCUIT IN ITS ENTIRETY BACK TO PANEL.
- 6 EXISTING PRESSURE SWITCH TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING WIRING AND RECONNECT NEW TO EXISTING CIRCUIT.

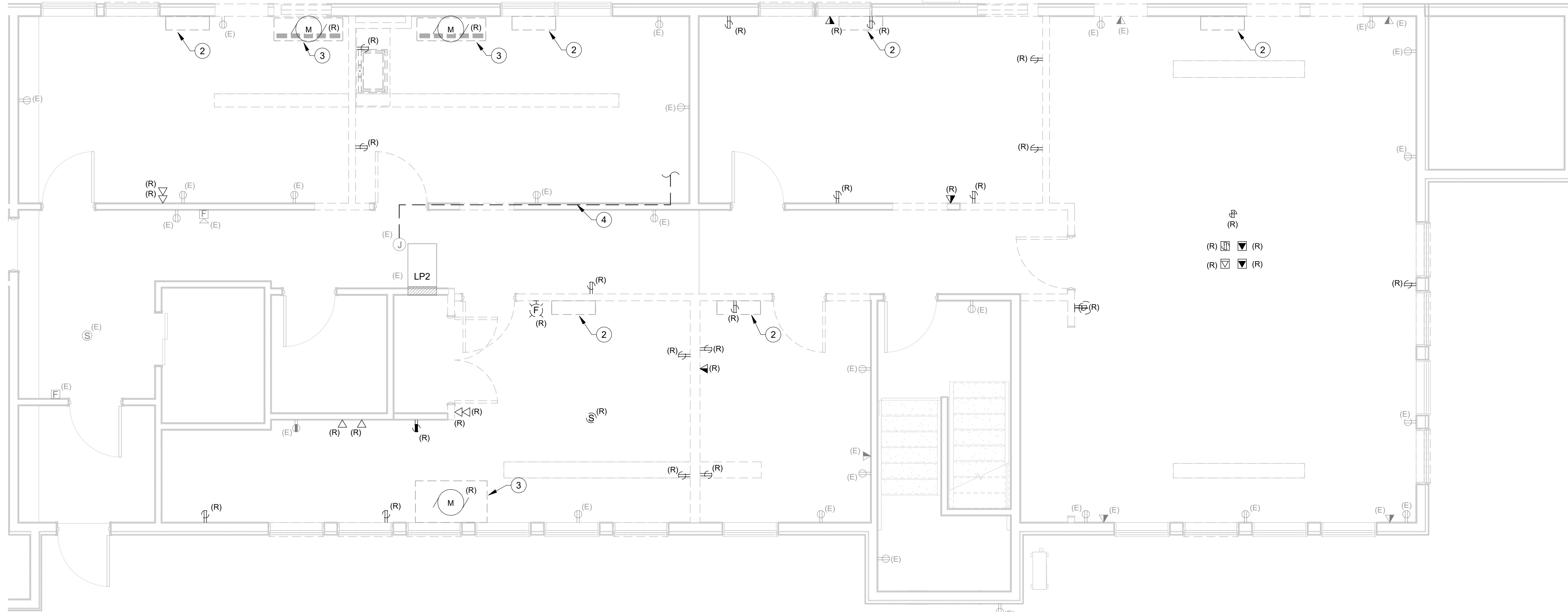


**SHEET E-202 NUMBERED NOTES** #

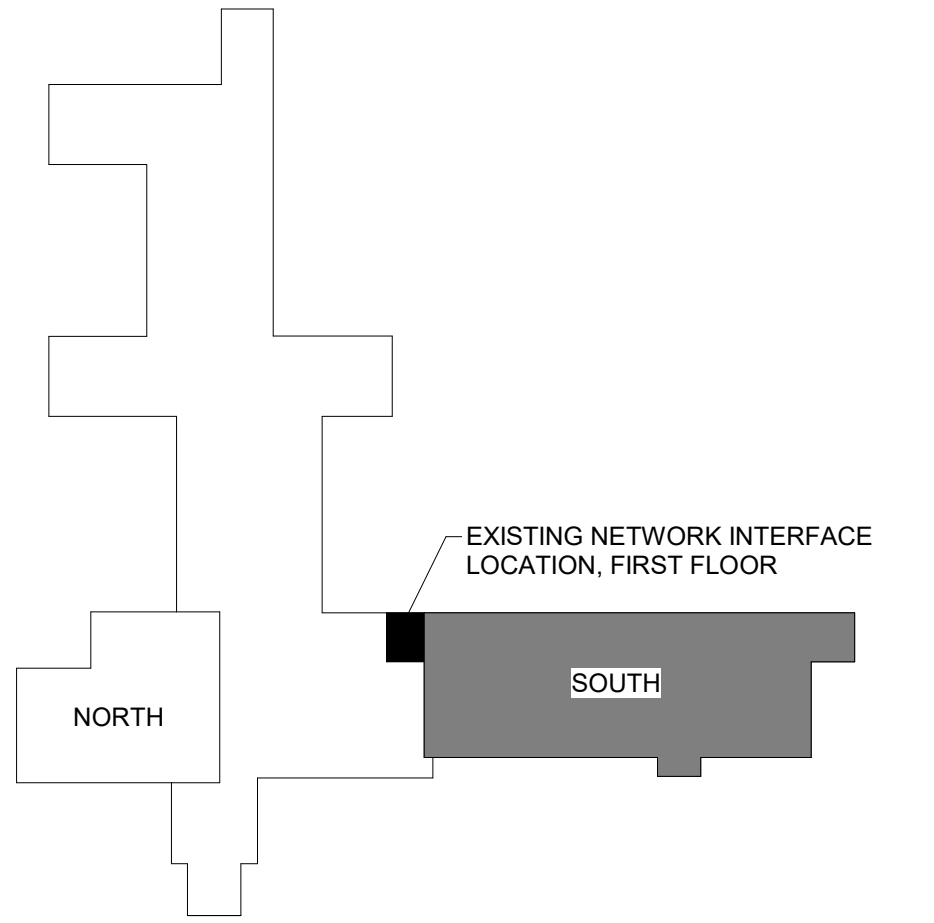
- 1 TEMPORARILY UNINSTALL AND RELOCATE/RECONNECT EXISTING FIXTURE TO BE MOVED TO A NEW LOCATION
- 2 EXISTING HEAT PUMP INDOOR UNIT TO BE RELOCATED. DISCONNECT POWER FROM OUTDOOR UNIT. RECONNECT UNITS TO EXISTING OUTDOOR UNIT POWER CIRCUITS WHERE UNITS ARE RELOCATED IN THE SAME AREA. RUN NEW POWER FROM THE OUTDOOR UNIT AT UNITS LOCATED WHERE NO EXISTING CIRCUIT IS RUN. REFERENCE MECHANICAL DEMO AND NEW PLANS FOR COMPLETE SCOPE.
- 3 CABINET HEATER REMOVED. REMOVE CIRCUIT BACK TO PANEL OR J-BOX IF CIRCUIT IS SHARED WITH EXISTING EQUIPMENT TO REMAIN.
- 4 REMOVE EXISTING 3" CONDUIT PREVIOUSLY ABANDONED IN PLACE.




**2 SECOND FLOOR ELECTRICAL POWER DEMO PLAN - SOUTH**  
SCALE: 1/4" = 1'-0"

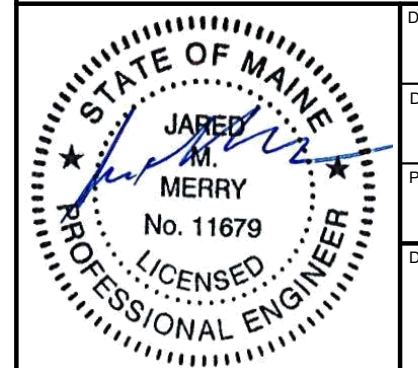


**1 FIRST FLOOR ELECTRICAL POWER DEMO PLAN - SOUTH**  
SCALE: 1/4" = 1'-0"

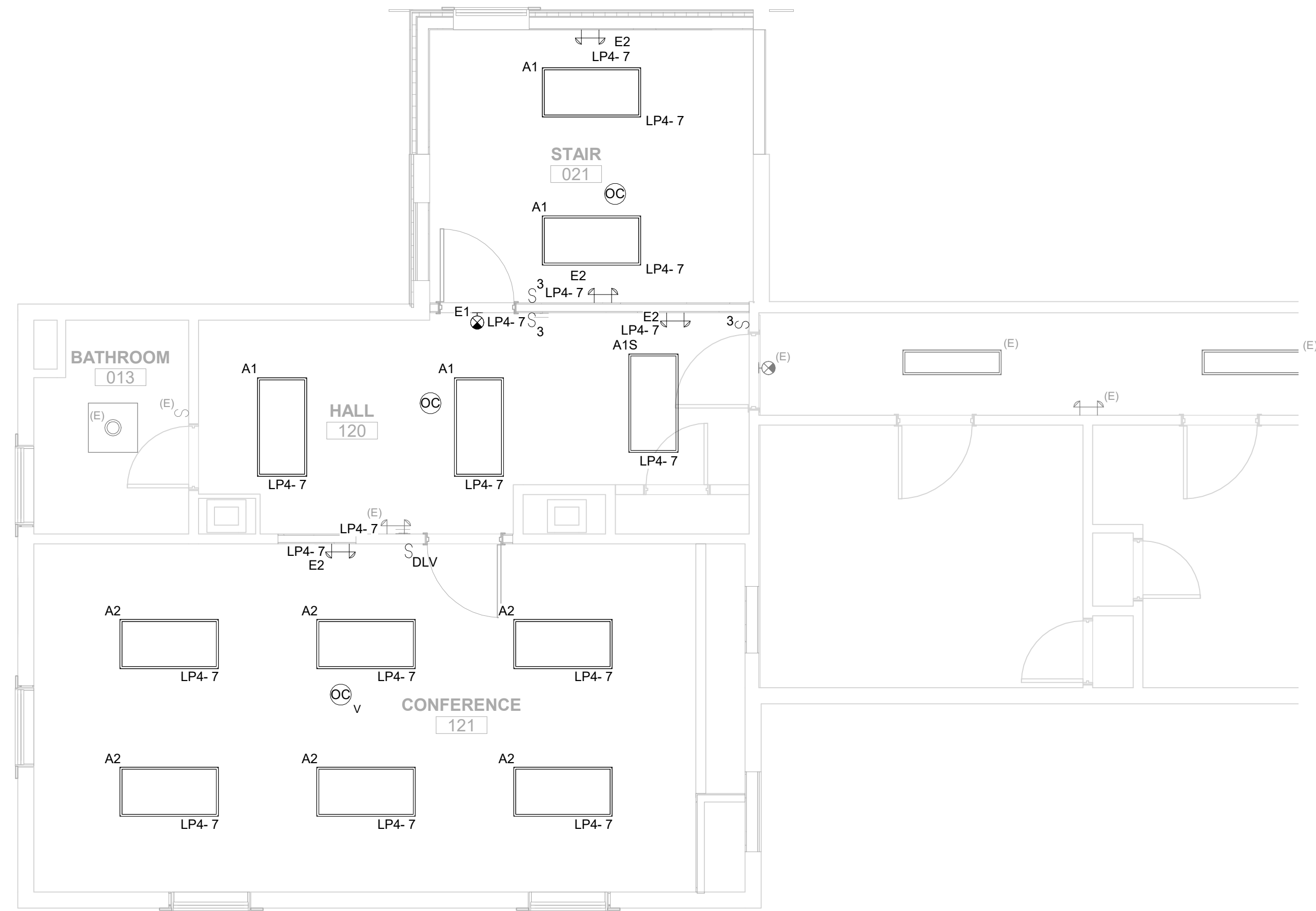


**KEYPLAN**

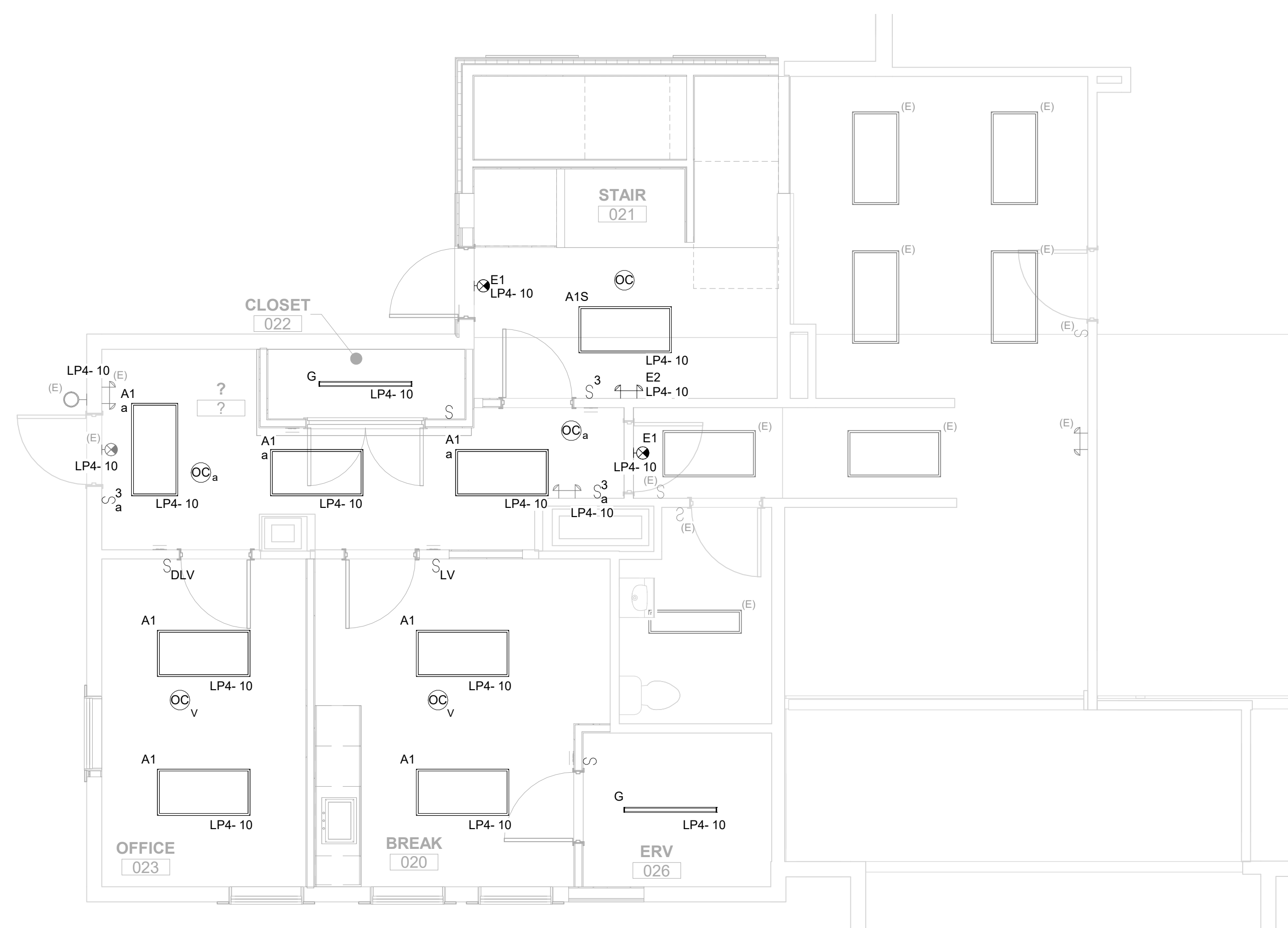
REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b>		
ENGINEERING   ENVIRONMENTAL   SURVEYING				
One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.769.4824				
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>FIRST &amp; SECOND FLOOR ELECTRICAL POWER DEMO PLANS - SOUTH</b>				
DATE		SCALE		
2022.08.15		1/4" = 1'-0"		
DRAWN BY		DESIGNED BY		CHECKED BY
TJA		JMM		JMM
PROJECT No.				
11395.013				
DRAWING No.				
<b>E-202</b>				



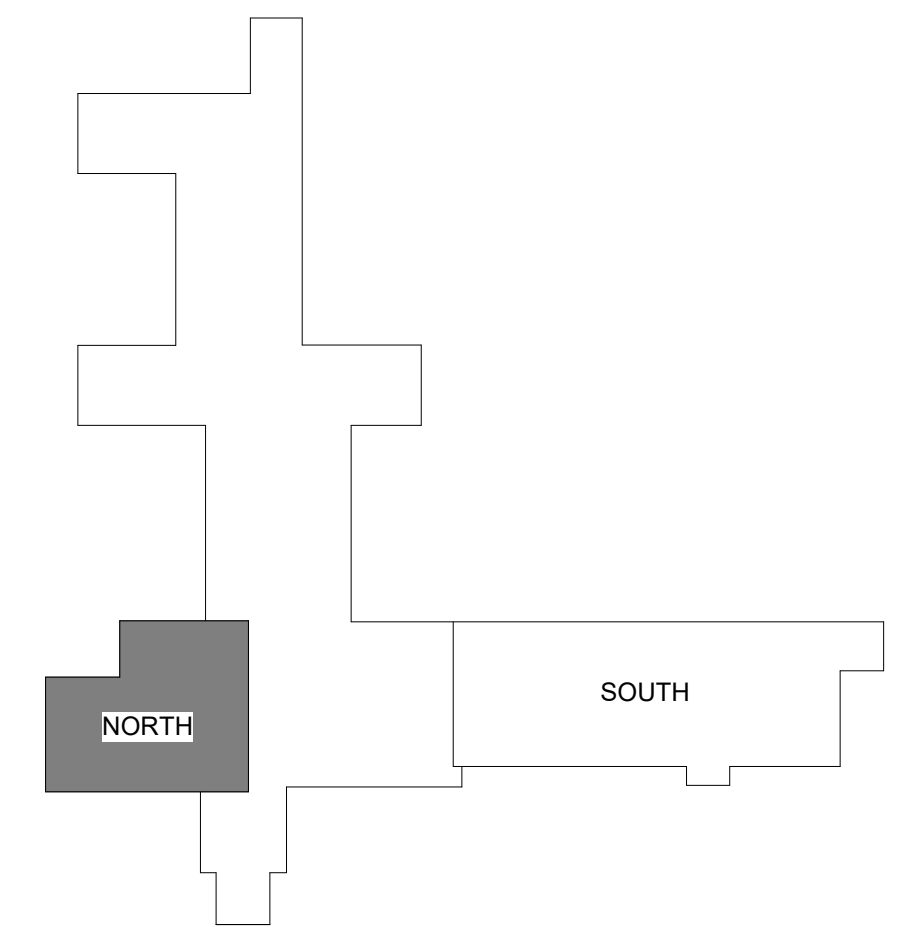
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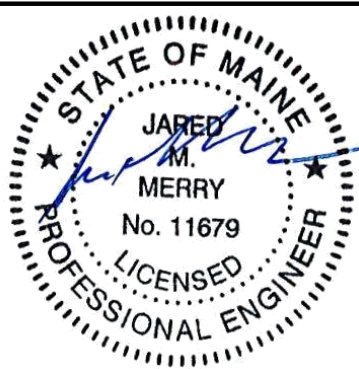
2 SECOND FLOOR ELECTRICAL LIGHTING PLANS - NORTH  
SCALE: 1/4" = 1'-0"



1 FIRST FLOOR ELECTRICAL LIGHTING PLAN - NORTH  
SCALE: 1/4" = 1'-0"

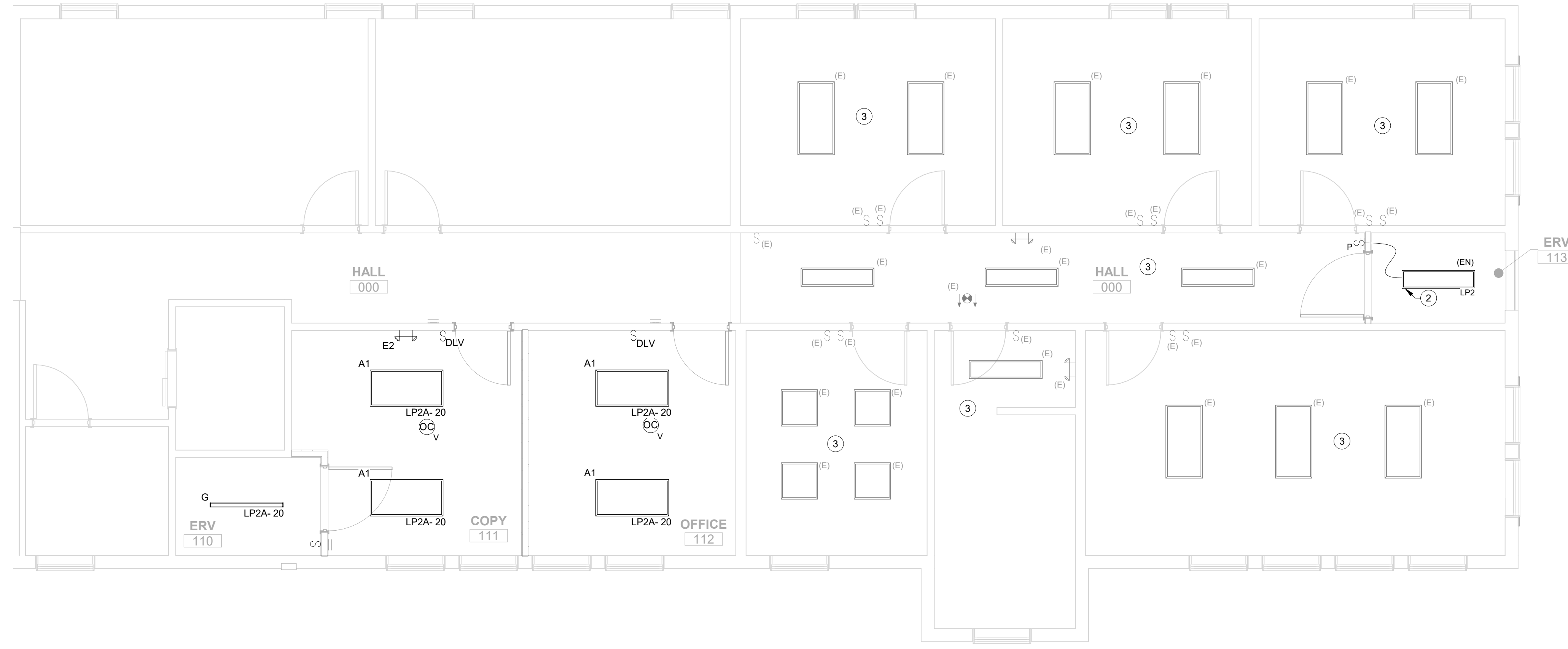


KEYPLAN

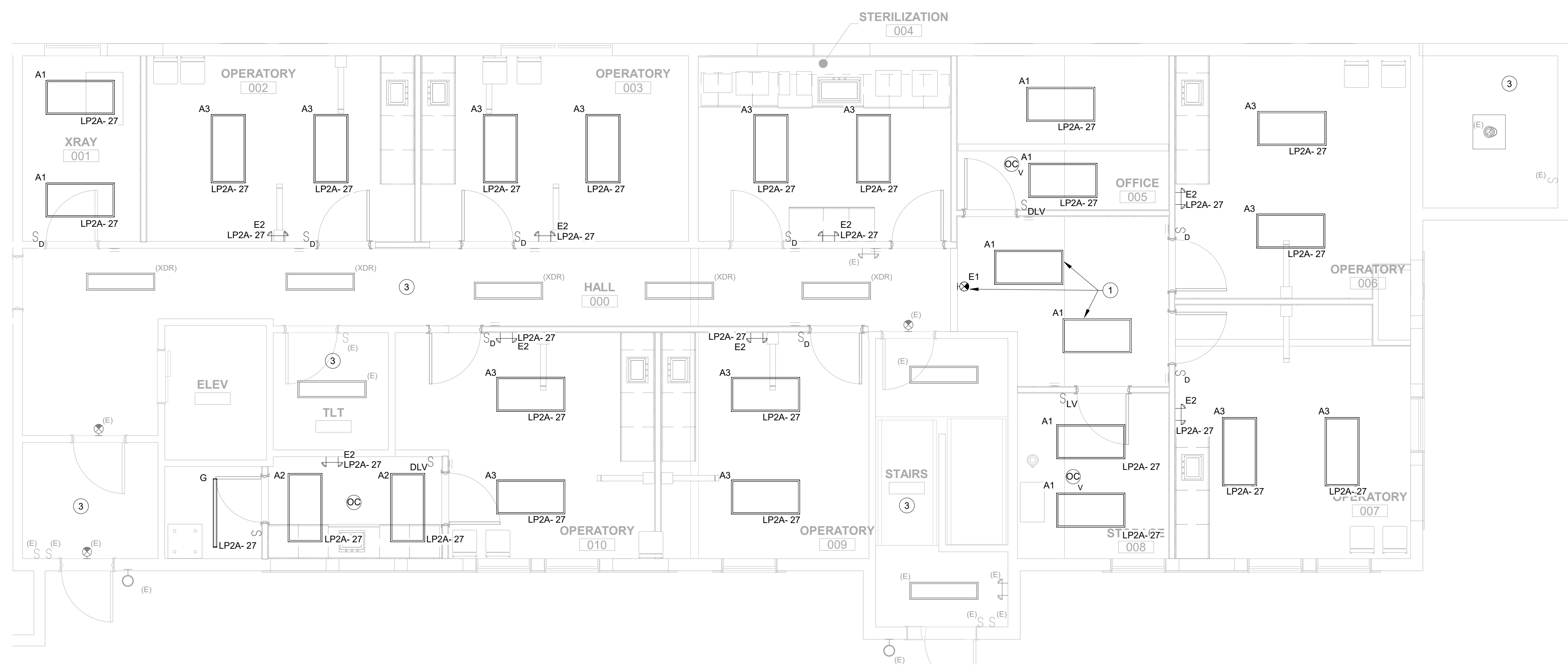
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<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
 <b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 WWW.HALEYWARD.COM				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
<b>FIRST &amp; SECOND FLOOR ELECTRICAL LIGHTING PLANS - NORTH</b>				
DATE: 2022.08.15		SCALE: 1/4" = 1'-0"		
DRAWN BY: TJA	DESIGNED BY: JMM	CHECKED BY: JMM		
PROJECT No: 11395.013		DRAWING No: E-301		
				

**SHEET E-302 NUMBERED NOTES**

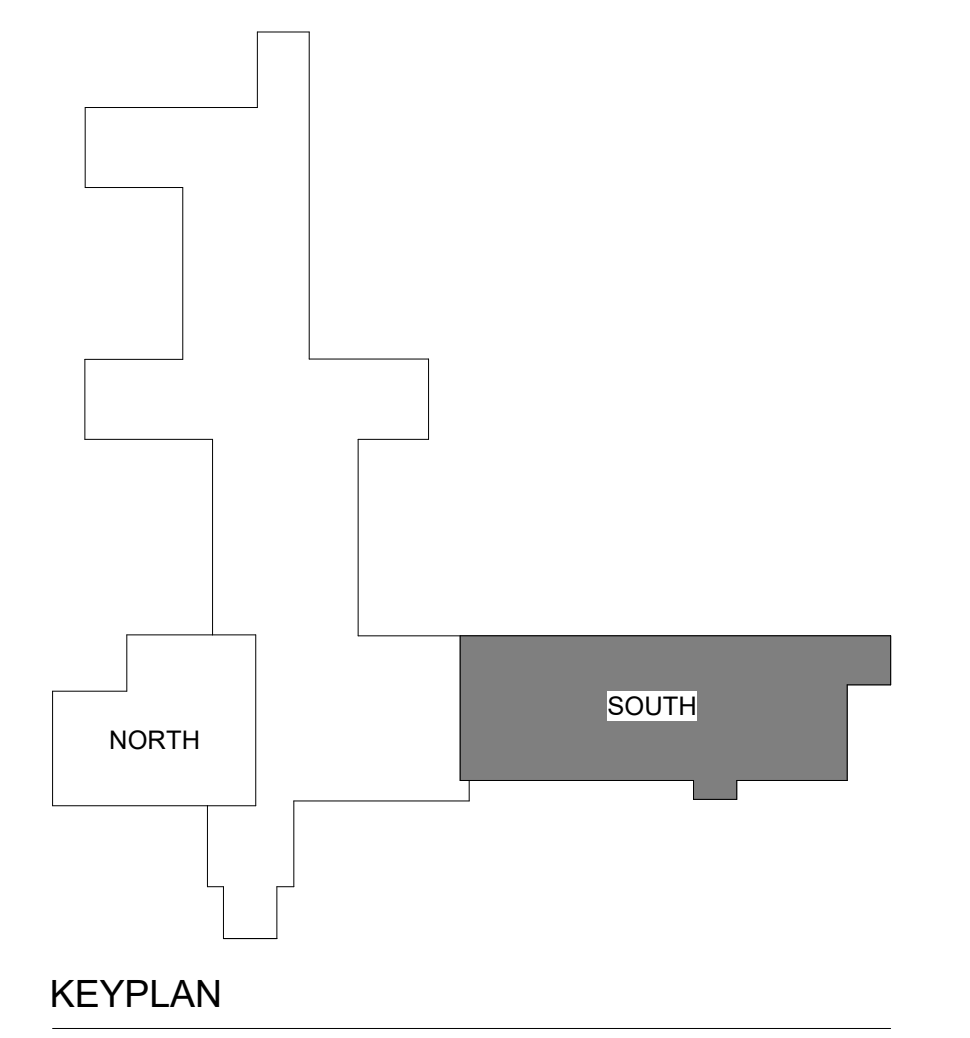
- 1 ADD NEW FIXTURES TO EXISTING HALLWAY LIGHTING & SWITCHING CIRCUIT.
- 2 EXISTING FIXTURE RELOCATED INSIDE NEW ERV CLOSET, CONNECT TO AVAILABLE CIRCUIT IN LP2 THROUGH SWITCH WITH PILOT LIGHT.
- 3 EXISTING LIGHTING FIXTURES TO REMAIN ON EXISTING CIRCUIT.




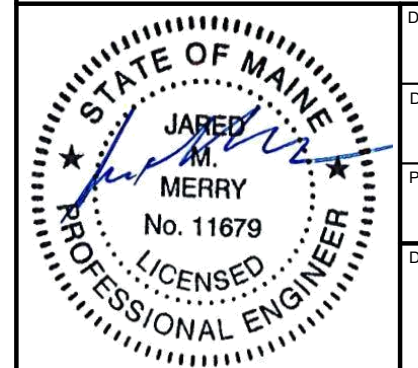
**2 SECOND FLOOR ELECTRICAL LIGHTING PLANS - SOUTH**  
SCALE: 1/4" = 1'-0"



**1 FIRST FLOOR ELECTRICAL LIGHTING PLAN - SOUTH**  
SCALE: 1/4" = 1'-0"



REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b>		
ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824				
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>FIRST &amp; SECOND FLOOR ELECTRICAL LIGHTING PLANS - SOUTH</b>				
DATE		SCALE		REV
2022.08.15		1/4" = 1'-0"		
DRAWN BY	DESIGNED BY	CHECKED BY		
TJA	JMM	JMM		
PROJECT No.				
11395.013				
DRAWING No.			REV	
<b>E-302</b>				



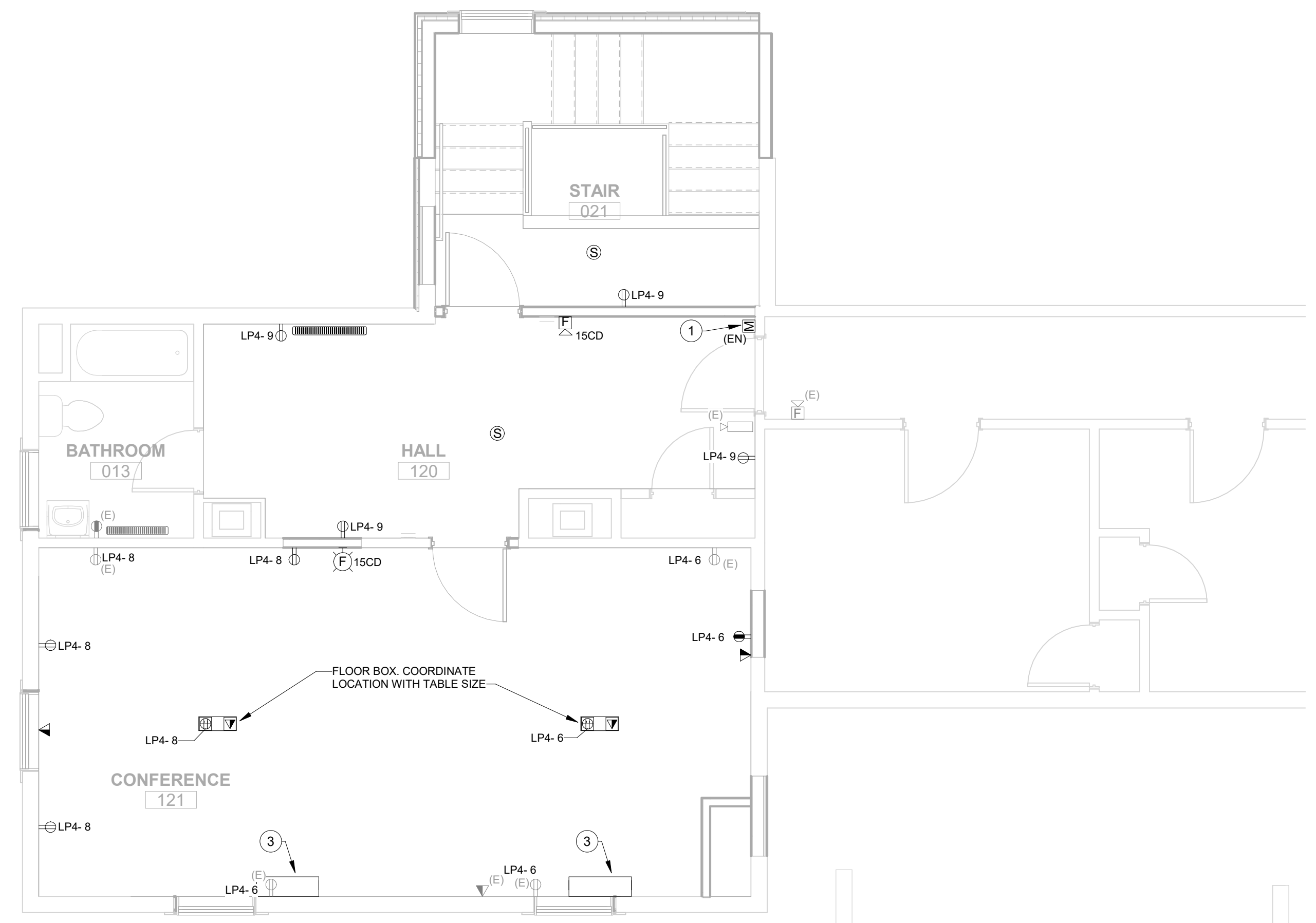
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**SHEET E-401 NUMBERED NOTES**

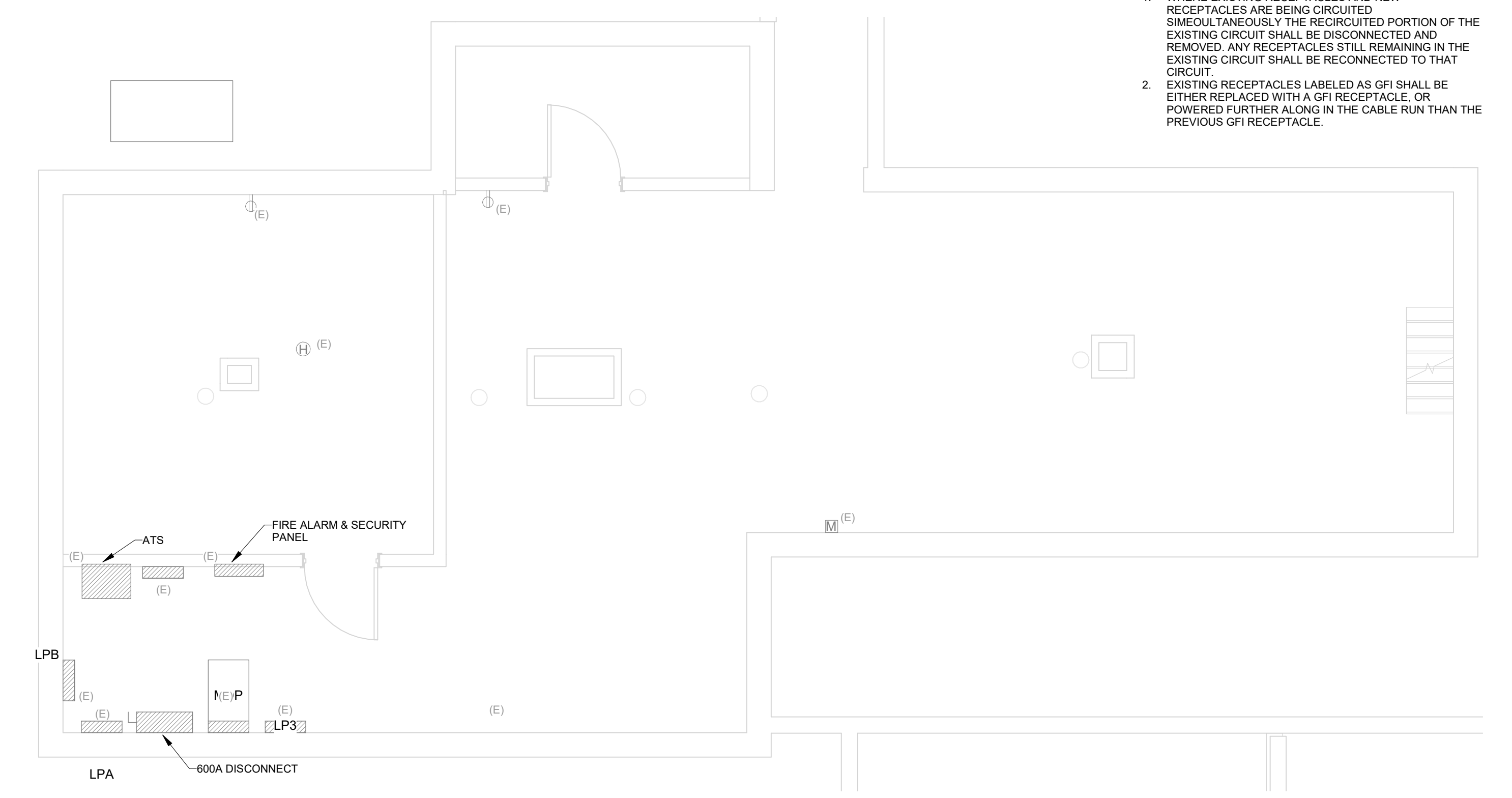
- 1 REINSTALL EXISTING FIXTURE IN NEW LOCATION.
- 2 RELOCATE EXISTING PANEL, RE-ROUTE AND RECONNECT ALL CIRCUITS THAT ARE TO REMAIN.
- 3 RECONNECT TO EXISTING CIRCUIT FED FROM CORRESPONDING OUTDOOR UNIT. SEE MECHANICAL PLANS FOR COMPLETE SCOPE OF WORK.
- 4 EXISTING HEAT PUMP OUTDOOR UNIT TO BE RELOCATED. DISCONNECT FROM CIRCUIT AND RECONNECT TO EXISTING CIRCUIT WHEN UNIT IS RELOCATED.

**ELECTRICAL GENERAL NOTES**

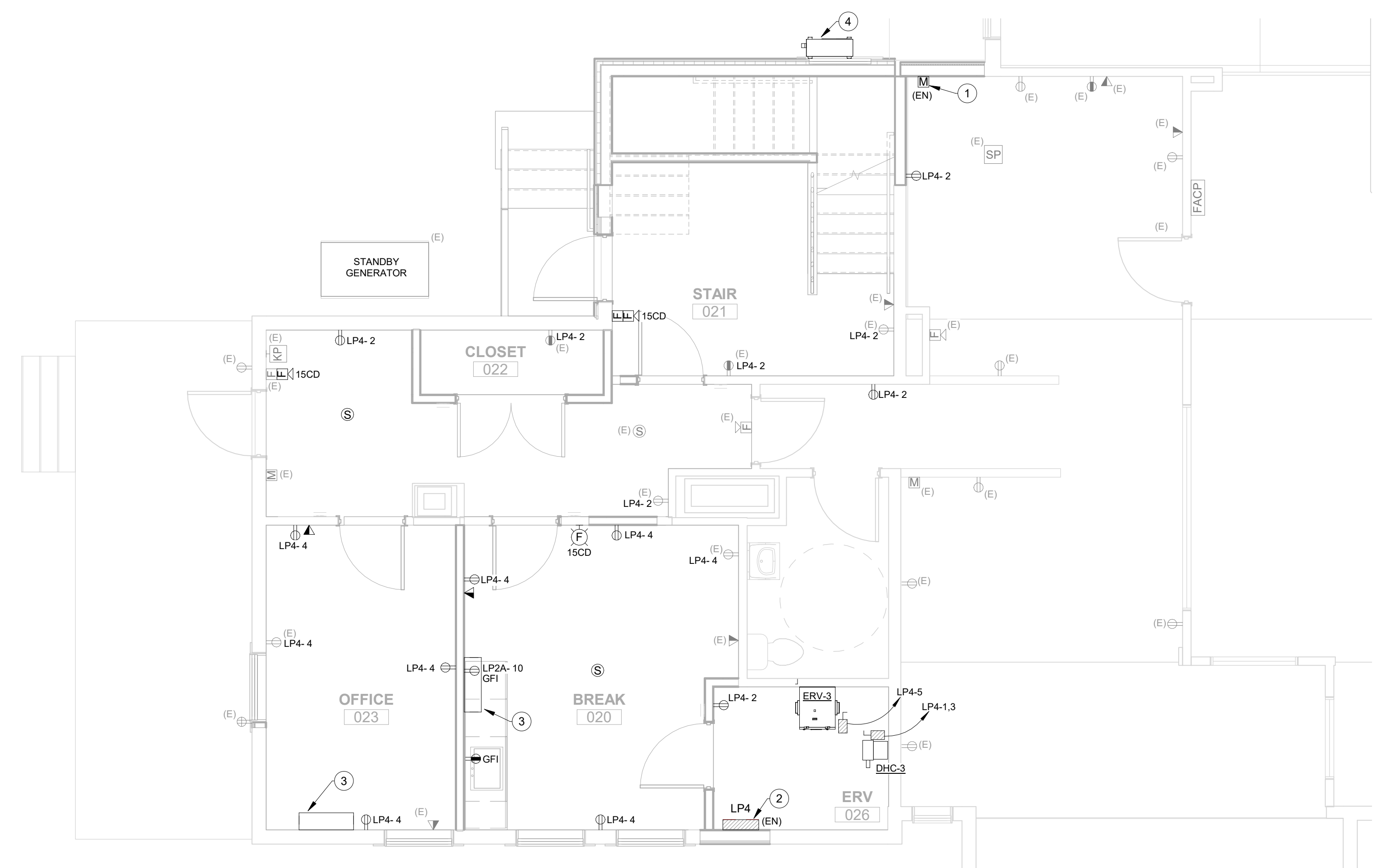
1. WHERE EXISTING RECEPTACLES AND NEW RECEPTACLES ARE BEING CIRCUITED SIMULTANEOUSLY THE RECIRCUITED PORTION OF THE EXISTING CIRCUIT SHALL BE DISCONNECTED AND REMOVED. ANY RECEPTACLES STILL REMAINING IN THE EXISTING CIRCUIT SHALL BE RECONNECTED TO THAT CIRCUIT.
2. EXISTING RECEPTACLES LABELED AS GFI SHALL BE EITHER REPLACED WITH A GFI RECEPTACLE, OR POWERED FURTHER ALONG IN THE CABLE RUN THAN THE PREVIOUS GFI RECEPTACLE.



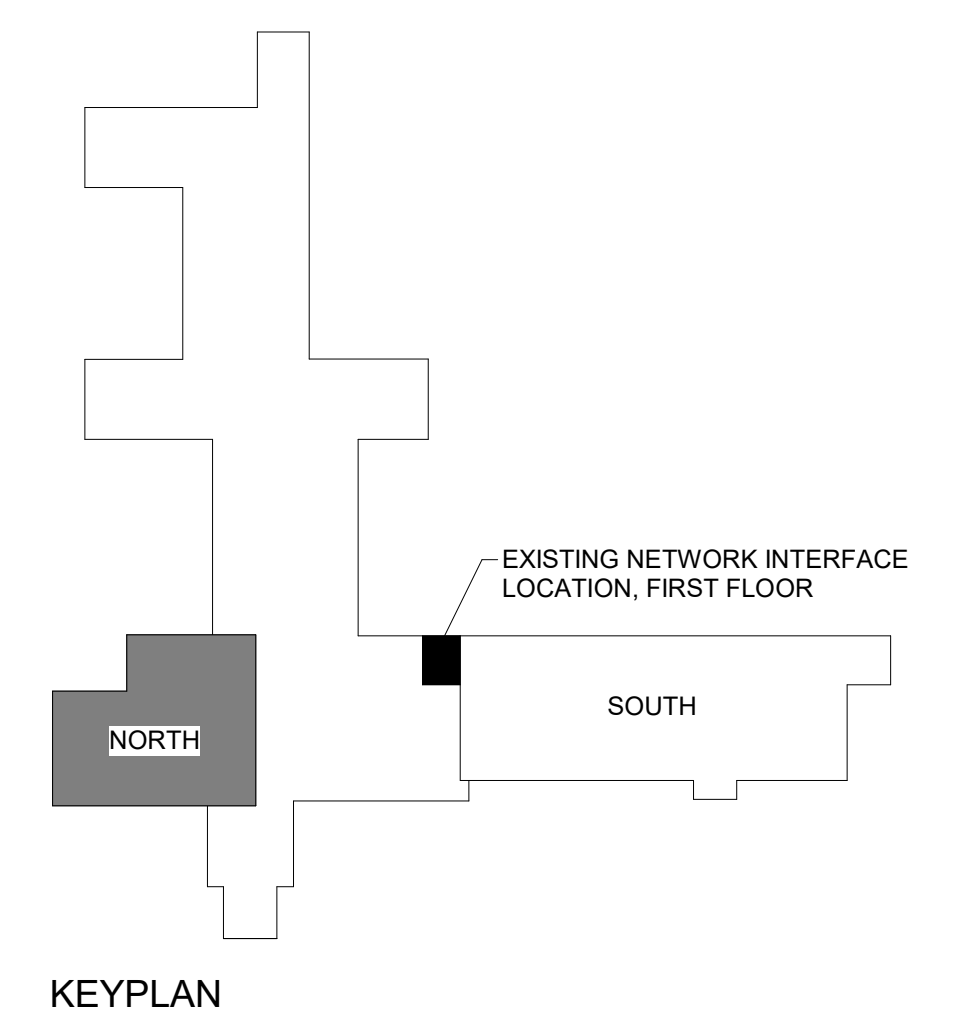
**2 SECOND FLOOR ELECTRICAL POWER PLAN - NORTH**  
E-401 SCALE: 1/4" = 1'-0"



**3 BASEMENT ELECTRICAL POWER PLAN**  
E-401 SCALE: 1/4" = 1'-0"

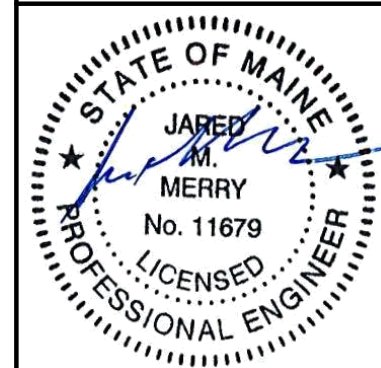


**1 FIRST FLOOR ELECTRICAL POWER PLAN - NORTH**  
E-401 SCALE: 1/4" = 1'-0"

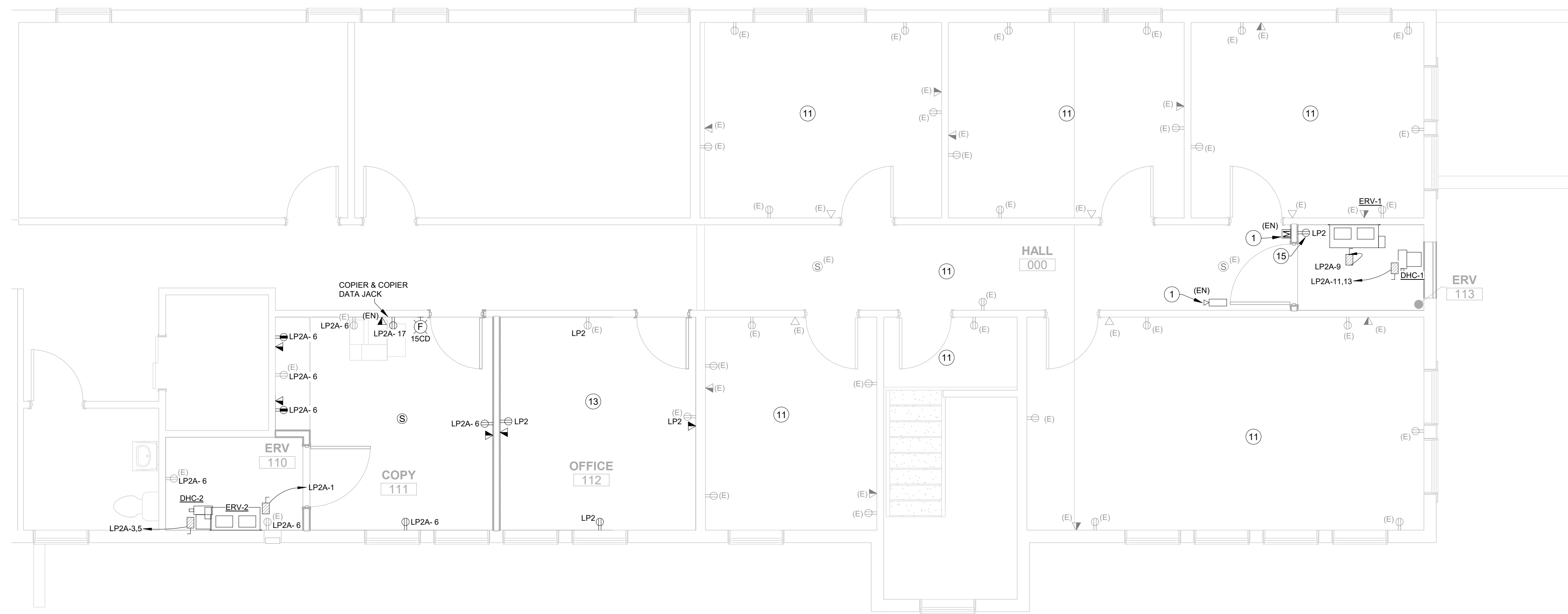


**KEYPLAN**

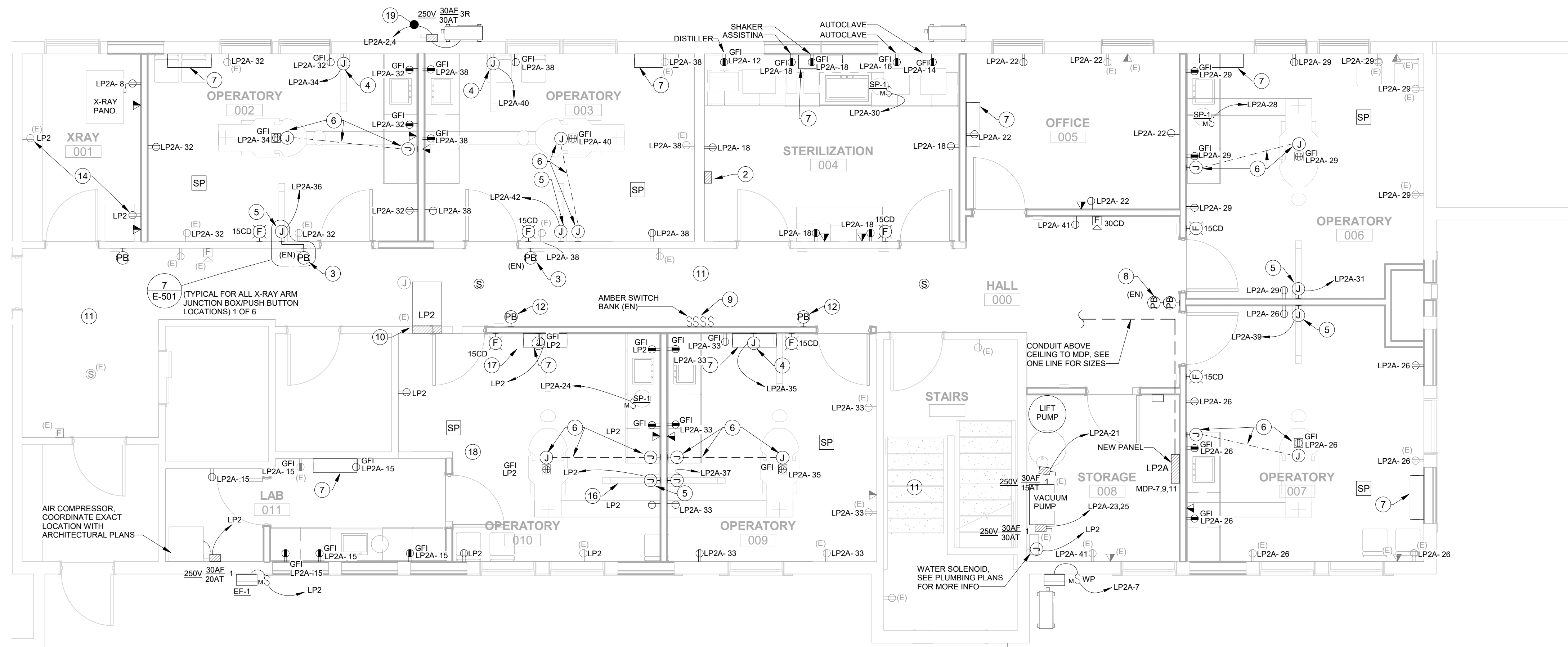
REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b>		
ENGINEERING   ENVIRONMENTAL   SURVEYING		One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.769.4824		
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>BASEMENT, FIRST &amp; SECOND FLOOR ELECTRICAL POWER PLANS - NORTH</b>				
DATE		SCALE		
2022.08.15		As indicated		
DRAWN BY	DESIGNED BY	CHECKED BY		
TJA	JMM	JMM		
PROJECT No.			11395.013	
DRAWING No.			<b>E-401</b>	



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2 SECOND FLOOR ELECTRICAL POWER PLAN - SOUTH  
E-402 SCALE: 1/4" = 1'-0"



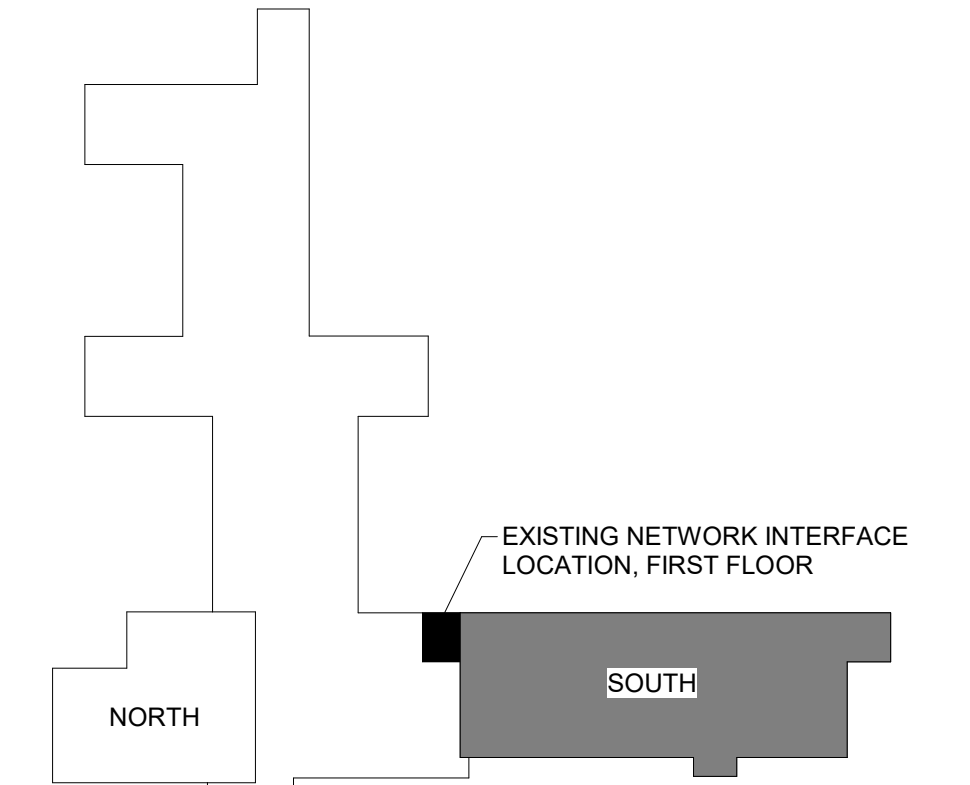
1 FIRST FLOOR ELECTRICAL POWER PLAN - SOUTH  
E-402 SCALE: 1/4" = 1'-0"

**SHEET E-402 NUMBERED NOTES**


- 1 REINSTALL EXISTING FIXTURE IN NEW LOCATION.
- 2 PROVIDE JUNCTION BOX FOR DENTAL EQUIPMENT MASTER CONTROL PANEL. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH DENTAL EQUIPMENT REP. AND ARCHITECT.
- 3 EXISTING REMOTE X-RAY PUSH BUTTON RELOCATED FROM EXISTING DENTISTRY WING.
- 4 JUNCTION BOX TO FEED ARTICULATING ARM WITH LIGHT.
- 5 JUNCTION BOX TO FEED ARTICULATING ARM WITH XRAY.
- 6 DENTAL CHAIR POWER CONDUIT BELOW SLAB. COORDINATE EXACT STUB UP LOCATION WITH DENTAL REPRESENTATIVE.
- 7 RECONNECT TO EXISTING CIRCUIT FED FROM CORRESPONDING OUTDOOR UNIT. SEE MECHANICAL PLANS FOR ENTIRE NEW WORK SCOPE AND UNIT RELOCATIONS.
- 8 TWO GANG BOX FOR REMOTE XRAY PUSH BUTTONS. REINSTALL EXISTING FIXTURE & CONNECT PUSH BUTTONS TO CORRESPONDING XRAY ARMS.
- 9 EXISTING SWITCH BANK IN NEW LOCATION. CONNECT ALL 4 SWITCHES TO THEIR RESPECTIVE SYSTEMS. AIR COMPRESSOR. VACUUM PUMP. WATER PUMP.
- 10 EXISTING PANEL TO REMAIN. ELECTRICAL CONTRACTOR SHALL DETERMINE CIRCUITS TO BE REMOVED AND TO REMAIN. REUSE ANY CIRCUIT SPACES CREATED DURING DEMOLITION.
- 11 EXISTING RECEPTACLES TO REMAIN ON EXISTING CIRCUIT IN LP2.
- 12 NEW X-RAY PUSH BUTTON. MATCH EXISTING STYLE.
- 13 CONNECT RECEPTACLES TO EXISTING CIRCUIT IN LP2.
- 14 CONNECT RECEPTACLES TO EXISTING HALLWAY CIRCUIT IN LP2.
- 15 CONNECT RECEPTACLE TO EXISTING HALLWAY CIRCUIT IN LP2.
- 16 JUNCTION BOX TO FEED ARTICULATING ARM WITH XRAY. CONNECT TO AVAILABLE CIRCUIT IN LP2.
- 17 JUNCTION BOX TO FEED ARTICULATING ARM WITH LIGHT. CONNECT TO AVAILABLE CIRCUIT IN LP2.
- 18 CONNECT OPERATORY 010 RECEPTACLE TO AVAILABLE CIRCUIT IN LP2.
- 19 (3) #10 AWG, (1) #10 AWG GND. 3/4" CONDUIT

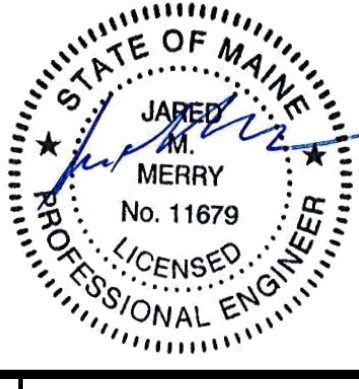
**ELECTRICAL GENERAL NOTES**

1. WHERE EXISTING RECEPTACLES AND NEW RECEPTACLES ARE BEING CIRCUITED SIMULTANEOUSLY THE RECIRCUITED PORTION OF THE EXISTING CIRCUIT SHALL BE DISCONNECTED AND REMOVED. ANY RECEPTACLES STILL REMAINING IN THE EXISTING CIRCUIT SHALL BE RECONNECTED TO THAT CIRCUIT.
2. EXISTING RECEPTACLES LABELED AS GFI SHALL BE EITHER REPLACED WITH A GFI RECEPTACLE OR POWERED FURTHER ALONG IN THE CABLE RUN THAN THE PREVIOUS GFI RECEPTACLE.



**KEYPLAN**

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
 <b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 WWW.HALEYWARD.COM				
PROJECT				
<b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE				
<b>FIRST &amp; SECOND FLOOR ELECTRICAL POWER PLANS - SOUTH</b>				

	DATE	2022.08.15	SCALE	As indicated
	DRAWN BY	TJA	DESIGNED BY	JMM
	CHECKED BY	JMM	PROJECT NO.	11395.013
	DRAWING NO.	<b>E-402</b>		

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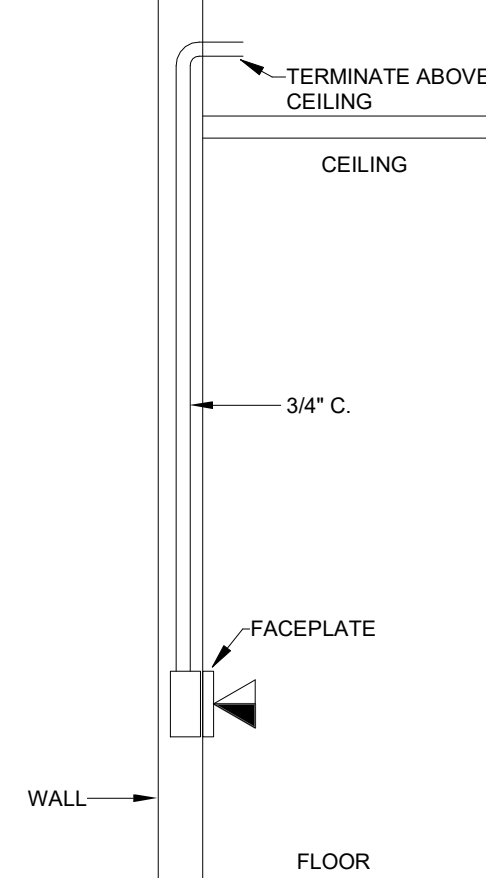


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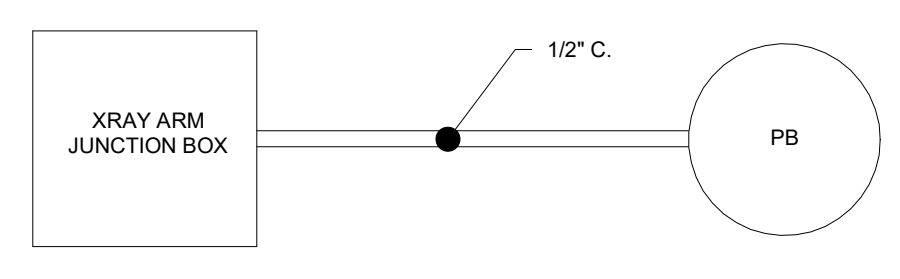
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B

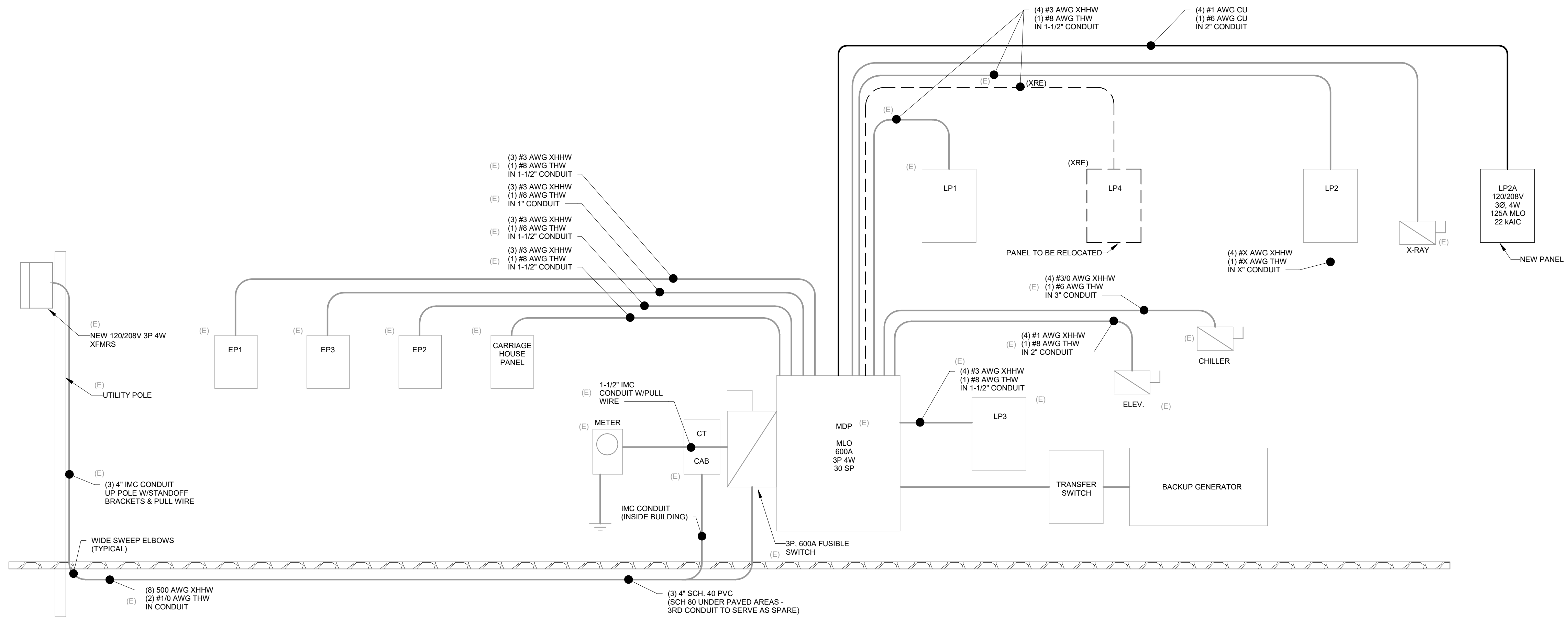
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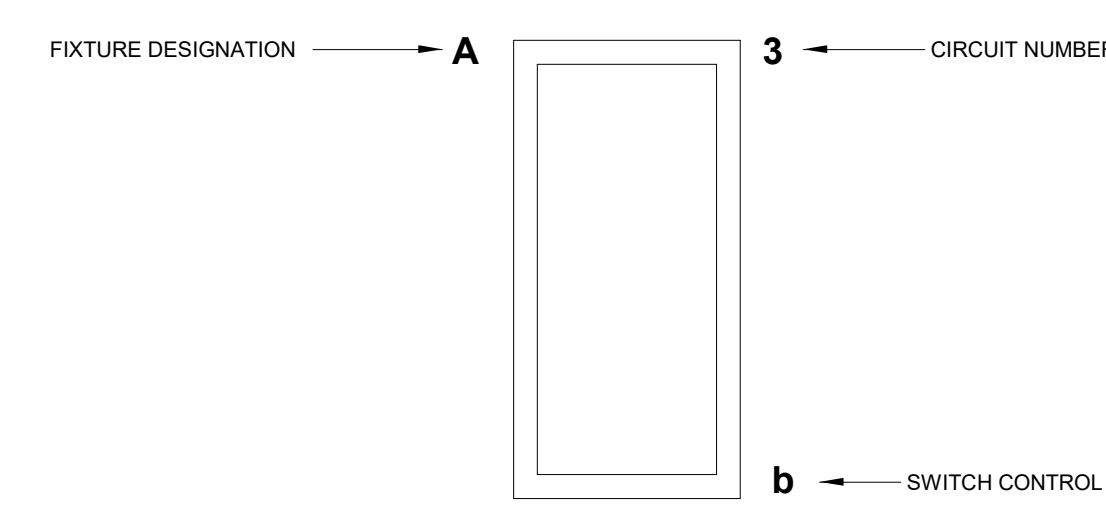
6 TYPICAL DUPLEX DATA JACK DETAIL  
E-501



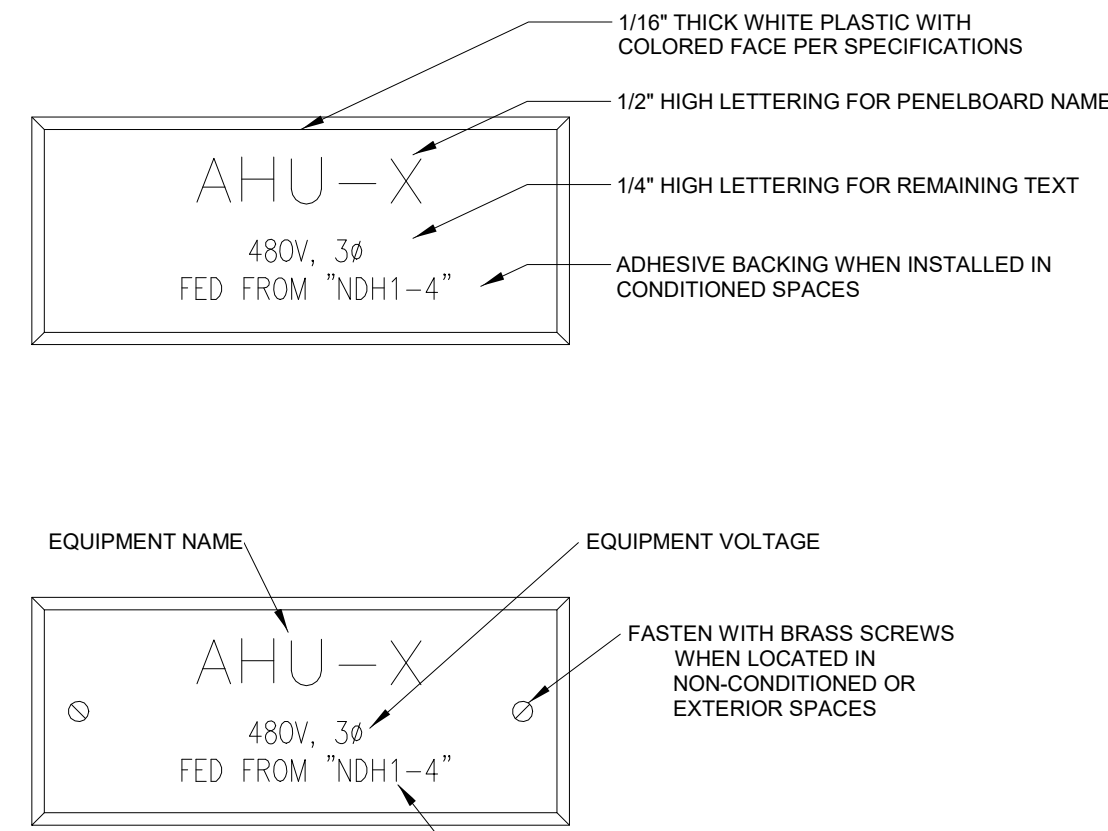
7 XRAY ARM CONDUIT RUN DETAIL  
E-501



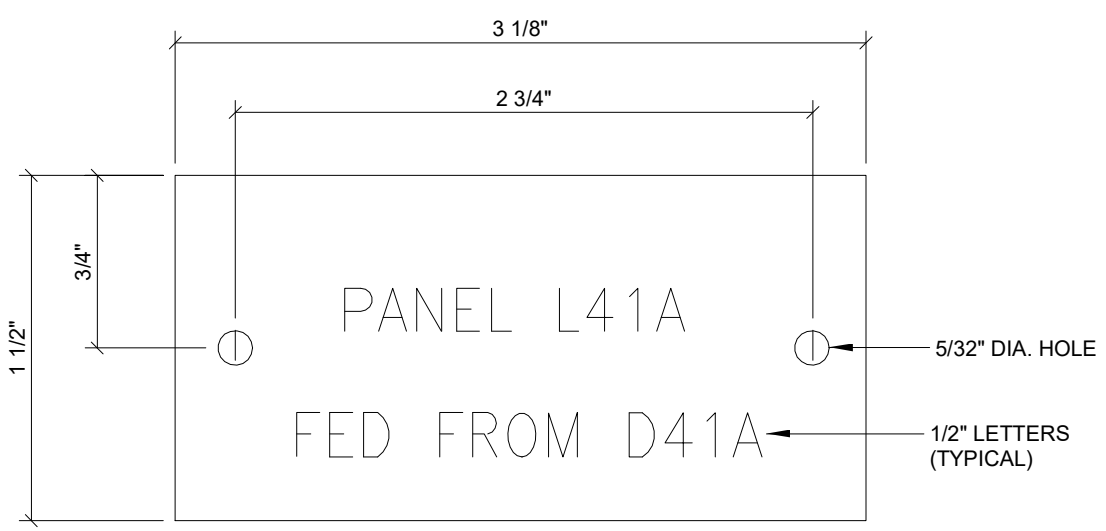
5 POWER ONE-LINE DIAGRAM  
E-501 SCALE: 12" = 1'-0"



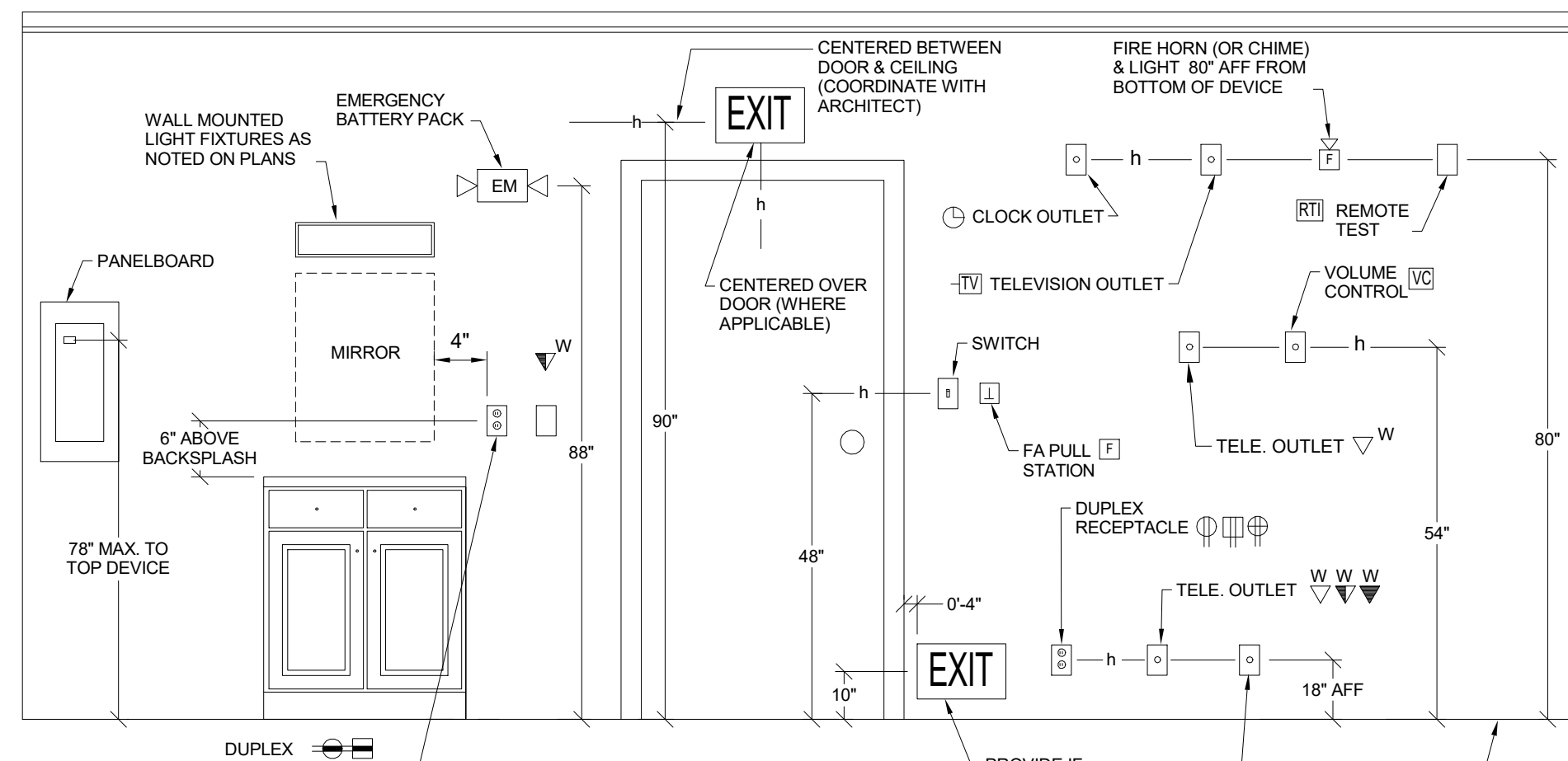
4 LIGHTING FIXTURE DESIGNATION  
E-501 SCALE: 1/4" = 1'-0"



3 TYPICAL EQUIPMENT EQUIPMENT NAMEPLATE DETAIL  
E-501 SCALE: 1/4" = 1'-0"



2 TYPICAL NAMEPLATE DETAIL  
E-501 SCALE: 1/4" = 1'-0"



1 EQUIPMENT MOUNTING HEIGHTS  
E-501 SCALE: 1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY	CHK
DRAWING ISSUE STATUS				
<b>BID DOCUMENTS DECEMBER 19, 2022</b>				
		<b>HALEY WARD</b> ENGINEERING   ENVIRONMENTAL   SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824		
PROJECT <b>HARRINGTON FAMILY HEALTH CENTER DENTISTRY RENOVATION HARRINGTON, MAINE</b>				
TITLE <b>ELECTRICAL ONE-LINE DIAGRAM &amp; DETAILS</b>				
DATE 2022.08.15		SCALE As indicated		
DRAWN BY TJA	DESIGNED BY JMM	CHECKED BY JMM		
PROJECT No. 11395.013		DRAWING No. <b>E-501</b>		

### Existing Panel: LP2

Location: HALL 000  
Supply From:  
Mounting: RECESSED  
Enclosure: NEMA 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating: 10kA  
Mains Type: MLO  
Mains Rating: 225.00 A  
MCB Rating: 225.00 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	FAN COIL #10	20 A	2	0 W	0 W			1	20 A	2
3								1	20 A	4
5	LIGHTING -P/T 109 BREAK ROOM	20 A	1		0 W	0 W		1	20 A	6
7	LIGHTING CORRIDOR 106	20 A	1	0 W	0 W			1	20 A	8
9	LIGHTING CORRIDOR 207	20 A	1		0 W	0 W		1	20 A	10
11	LIGHTING CLASS 208,209	20 A	1			0 W	0 W	1	20 A	12
13	LIGHTING HEALTH ED.	20 A	1	0 W	0 W			1	20 A	14
15	WALL OUTLETS BY SINK	20 A	1		0 W	0 W		1	20 A	16
17	LIGHTING ADMIN. 102	20 A	1			0 W	0 W	1	20 A	18
19	LIGHTING SOCIAL III	20 A	1	0 W	0 W			1	20 A	20
21	CLOSET LIGHTING REF	20 A	1		0 W	0 W		1	20 A	22
23	SOUTH HEAT CONTROL PANEL AT ENTRY	20 A	1			0 W	0 W	1	20 A	24
25	FIRE ALARM NEW ADDITION ENTRANCE	20 A	1	0 W	0 W			1	20 A	26
27	OFFICE DIRECTOR'S HALL STAIRWELL LIGHTS	20 A	1		0 W	0 W		2	50 A	28
29	CONFERENCE ROOM LIGHTS	20 A	1			0 W	0 W	1	20 A	30
31	SPACE	--	1	--	0 W			1	20 A	32
33	EXTERIOR EXIT EMERGENCY LIGHTS	20 A	1		0 W	0 W		1	20 A	34
35	RMS-201,203,205,206&207	20 A	1			0 W	0 W	1	20 A	36
37	RM 206 RECEPTACLES	20 A	1	0 W	0 W			1	20 A	38
39	RM 206 RECEPTACLES	20 A	1		0 W	0 W		1	20 A	40
41	RM 207 RECEPTACLES	20 A	1			0 W	0 W	1	20 A	42
<b>Total Load:</b>				0 W	0 W	0 W				
<b>Total Amps:</b>				0.00 A	0.00 A	0.00 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	45 W	100.00%	45 W	<b>Total Conn. Load:</b> 0 W
Receptacle	5400 W	100.00%	5400 W	<b>Total Est. Demand:</b> 0 W
				<b>Total Conn.:</b> 0.00 A
				<b>Total Est. Demand:</b> 0.00 A

Notes:

### Branch Panel: MDP

Location:  
Supply From:  
Mounting: SURFACE  
Enclosure: NEMA 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating: 22 kA  
Mains Type: MLO  
Mains Rating: 600.00 A  
MCB Rating: 600.00 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				0 W	0 W					2
3	EXISTING PANEL	200 A	3		0 W	0 W		3	125 A	4
5						0 W	0 W			6
7				1444...	--			1	--	8
9	NEW PANEL LP2A	125 A	3		1390...	--		1	--	10
11								2	100 A	12
13	SPACE	--	1	--	0 W			1	100 A	14
15	EXISTING	100 A	2		0 W	0 W		2	100 A	16
17						0 W	0 W			18
19				0 W	0 W					20
21	EXISTING PANEL	100 A	3		0 W	0 W		3	100 A	22
23						0 W	0 W			24
25				0 W	--			1	--	26
27	EXISTING PANEL	100 A	3		0 W	--		1	--	28
29						0 W	--	1	--	30
31	SPACE	--	1	--	0 W			3	100 A	32
33	EXISTING	40 A	2		0 W	0 W				34
35						0 W	0 W			36
<b>Total Load:</b>				1444 W	13909 W	14138 W				
<b>Total Amps:</b>				120.68 A	115.90 A	118.11 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	2670 W	107.87%	2660 W	<b>Total Conn. Load:</b> 42493 W
Other	0 W	0.00%	0 W	<b>Total Est. Demand:</b> 40121 W
Receptacle	17720 W	78.22%	13860 W	<b>Total Conn.:</b> 117.95 A
				<b>Total Est. Demand:</b> 111.36 A

Notes:

### Branch Panel: LP4

Location:  
Supply From:  
Mounting: SURFACE  
Enclosure: NEMA 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating: 10kA  
Mains Type: MLO  
Mains Rating: 125.00 A  
MCB Rating: 125.00 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	DHC-3 026	15 A	2	1000 W	1440 W			1	20 A	2
3					1000 W	1440 W		1	20 A	4
5	ERV-3 026	10 A	1					1	20 A	6
7	NORTH 2ND FLOOR LIGHTING	20 A	1	451 W	900 W			1	20 A	8
9	NORTH HALLWAY, STAIRWELL RECEPS	20 A	1		720 W	424 W		1	20 A	10
11	SPARE	20 A	1			0 W	0 W	1	20 A	12
<b>Total Load:</b>				3791 W	3584 W	1038 W				
<b>Total Amps:</b>				34.86 A	33.13 A	8.65 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	45 W	100.00%	45 W	<b>Total Conn. Load:</b> 8413 W
Receptacle	5400 W	100.00%	5400 W	<b>Total Est. Demand:</b> 8620 W
				<b>Total Conn.:</b> 23.35 A
				<b>Total Est. Demand:</b> 23.93 A

Notes:

### Panel: LP2A

Location:  
Supply From: MDP  
Mounting: SURFACE  
Enclosure: NEMA 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating: 22kA  
Mains Type: MLO  
Mains Rating: 225.00 A  
MCB Rating: 225.00 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	ERV-2 ERV 110	15.00 A	1	216 W	2113 W			2	30.00 A	2
3					1500 W	2113 W		2	30.00 A	4
5	DHC-2 ERV 110	20.00 A	2			1500 W	1440 W	1	20.00 A	6
7	EF-1 STORAGE 008	20.00 A	1	150 W	180 W			1	20.00 A	8
9	ERV-1 113	15.00 A	1		216 W	180 W		1	20.00 A	10
11						1000 W	600 W	1	20.00 A	12
13	DHC-1 113	15.00 A	2	1000 W	1425 W			1	20.00 A	14
15	RECEPTACLE LAB 011	20.00 A	1		1080 W	1425 W		1	20.00 A	16
17	COPIER COPY 111	20.00 A	1		180 W	1130 W		1	20.00 A	18
19	RECEPTACLE OFFICE 112	20.00 A	1	720 W	195 W			1	20.00 A	20
21	LIFT PUMP STORAGE 008	15.00 A	1		1440 W	900 W		1	20.00 A	22
23						2948 W	840 W	1	15.00 A	24
25	VACUUM PUMP STORAGE 008	40.00 A	2	2948 W	1620 W			1	20.00 A	26
27	SOUTH 1ST FLOOR LIGHTING	20.00 A	1		915 W	840 W		1	15.00 A	28
29	RECEPS. OP. 006	20.00 A	1		1620 W	840 W		1	15.00 A	30
31	XRAY ARM OP. 006	20.00 A	1	500 W	1440 W			1	20.00 A	32
33	RECEPS. OP. 009	20.00 A	1		1440 W	680 W		1	20.00 A	34
35	ARM LIGHT & CHAIR OP. 009	20.00 A	1			680 W	500 W	1	20.00 A	36
37	XRAY ARM OP. 009	20.00 A	1	500 W	1440 W			1	20.00 A	38
39	XRAY ARM OP. 007	20.00 A	1		500 W	680 W		1	20.00 A	40
41	RECEPS HALL 000, STORAGE 008	20.00 A	1			360 W	500 W	1	20.00 A	42
<b>Total Load:</b>				14447 W	13909 W	14138 W				
<b>Total Amps:</b>				120.68 A	115.90 A	118.11 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	2670 W	107.87%	2660 W	<b>Total Conn. Load:</b> 42493 W
Other	0 W	0.00%	0 W	<b>Total Est. Demand:</b> 40121 W
Receptacle	17720 W	78.22%	13860 W	<b>Total Conn.:</b> 117.95 A
				<b>Total Est. Demand:</b> 111.36 A

Notes:

### LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	FIXTURE LAMP TYPE	LUMEN LEVEL	FIXTURE WATTAGE	FIXTURE VOLTAGE	REMARKS
A1	2'x4' RECESSED LED BACK LIT FLAT PANEL, ALUMINUM FRAME, WHITE FINISH, FROSTED ACRYLIC LENS, CRI 80+, 0-10V 10% DIMMING, ADJUSTABLE LUMEN LEVEL: 3300/4400/5500, SWITCHABLE CCT: 30K/40K/50K	COLUMBIA LIGHTING	CBT24-LSCS	LED	3300	28	UNV	SET SWITCHABLE LUMENS TO 3300 LUMENS AND SWITCHABLE CCT TO 40K
A1S	2'x4' RECESSED LED BACK LIT FLAT PANEL, ALUMINUM FRAME, WHITE FINISH, FROSTED ACRYLIC LENS, CRI 80+, 0-10V 10% DIMMING, ADJUSTABLE LUMEN LEVEL: 3300/4400/5500, SWITCHABLE CCT: 30K/40K/50K	COLUMBIA LIGHTING	CBT24-LSCS / SRPSMK24	LED	3300	28	UNV	SET SWITCHABLE LUMENS TO 3300 LUMENS AND SWITCHABLE CCT TO 40K. ORDER WITH SURFACE MOUNT ACCESSORY.
A2	2'x4' RECESSED LED BACK LIT FLAT PANEL, ALUMINUM FRAME, WHITE FINISH, FROSTED ACRYLIC LENS, CRI 80+, 0-10V 10% DIMMING, ADJUSTABLE LUMEN LEVEL: 3300/4400/5500, SWITCHABLE CCT: 30K/40K/50K	COLUMBIA LIGHTING	CBT24-LSCS	LED	4400	38	UNV	SET SWITCHABLE LUMENS TO 4400 LUMENS AND SWITCHABLE CCT TO 40K
A3	2'x4' RECESSED LED BACK LIT FLAT PANEL, ALUMINUM FRAME, WHITE FINISH, FROSTED ACRYLIC LENS, CRI 80+, 0-10V 10% DIMMING, ADJUSTABLE LUMEN LEVEL: 3300/4400/5500, SWITCHABLE CCT: 30K/40K/50K	COLUMBIA LIGHTING	CBT24-LSCS	LED	5500	48	UNV	SET SWITCHABLE LUMENS TO 5500 LUMENS AND SWITCHABLE CCT TO 40K
E1	UNIVERSAL MOUNTED THERMOPLASTIC LED EXIT LIGHT WITH RED LETTERS AND SELF DIAGNOSTICS	DUAL LITE	EVEURWE	LED	N/A	4	UNV	
E2	UNIVERSAL MOUNTED THERMOPLASTIC EMERGENCY BATTERY BACKUP UNIT	DUAL LITE	EV	LED	N/A	4	UNV	
G	4' LED STRIP LIGHT, CRI 80+ 0-10V DIMMING, ADJUSTABLE LUMENS: 3500/4000/5000, ADJUSTABLE CCT: 30K/40K/50K	COLUMBIA LIGHTING	CSL4-LSCS	LED	3300	30	UNV	SET SWITCHABLE LUMENS TO 3300 LUMENS AND SWITCHABLE CCT TO 40K

REV. DATE DESCRIPTION BY CHK  
DRAWING ISSUE STATUS

**BID DOCUMENTS  
DECEMBER 19, 2022**

**HALEY WARD**  
ENGINEERING | ENVIRONMENTAL | SURVEYING  
One Merchants Plaza, Suite 701  
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207.789.4824  
WWW.HALEYWARD.COM

PROJECT  
**HARRINGTON FAMILY HEALTH CENTER  
DENTISTRY RENOVATION  
HARRINGTON, MAINE**

TITLE  
**ELECTRICAL SCHEDULES**

DATE: 2022.08.15 SCALE:  
DRAWN BY: TJA DESIGNED BY: JMM CHECKED BY: JMM  
PROJECT NO: 11395.013  
DRAWING NO: **E-601** REV:

**JARED MERRY**  
No. 11679  
LICENSED PROFESSIONAL ENGINEER