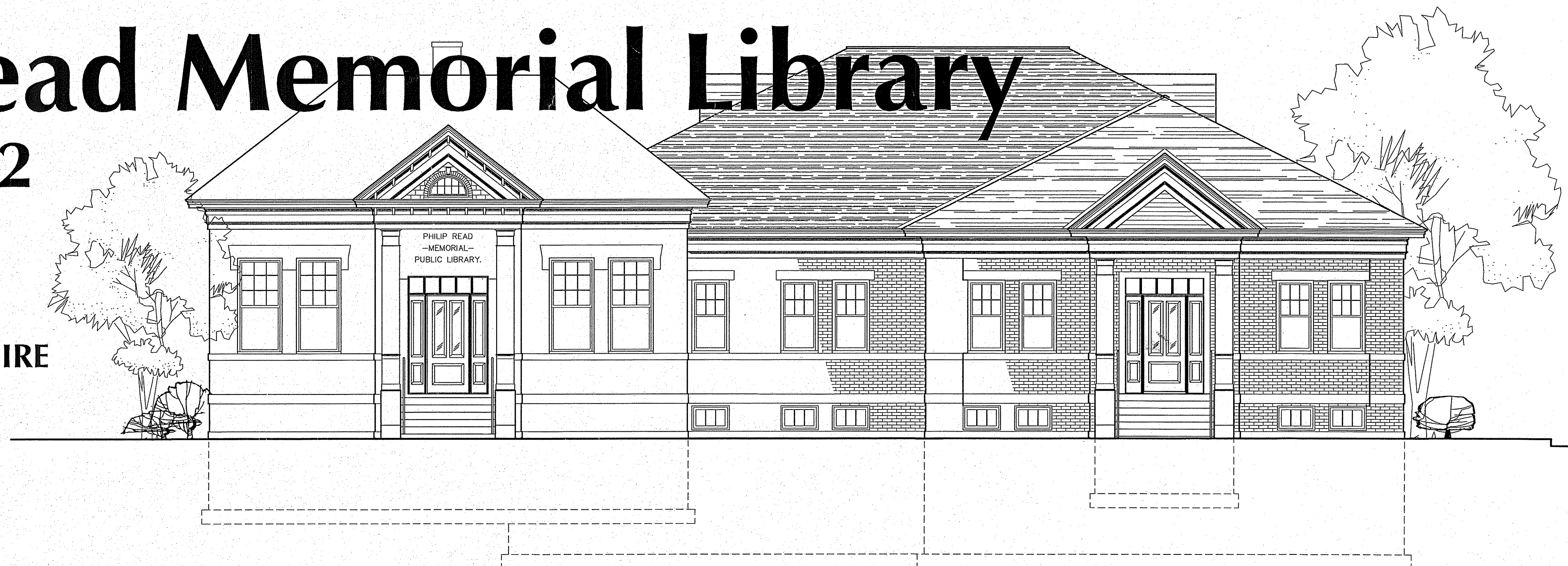


Philip Read Memorial Library

August 7, 2002

1088 Route 12A
PLAINFIELD, NEW HAMPSHIRE



SYMBOLS

SITE			
—	PROPERTY LINE	—SD	STORM DRAIN
-x-	FENCE	-P-	POWER LINE
-s-	SANITARY SEWER	-W-	WATER LINE

MARKERS / CODES

- [7]— WALL TYPE TAG
- ③ DOOR NUMBER (SEE SCHEDULE)
- ③ WINDOW TYPE (SEE SCHEDULE)
- 100'-0" ELEVATION (HT.) ON CROSS SECTION OR FACADE
- ③ SECTION / ELEVATION / DETAIL (SECTION 3 ON SHEET A-12)

ABBREVIATIONS	MEANING
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
BO	BY OWNER
CER	CERAMIC
CJ	CONTROL JOINT
CONC	CONCRETE
CPT	CARPET
EJ	EXPANSION JOINT
EK or EKSTG	EXISTING
EXP	EXPANSION
FNDN or FNDT	FOUNDATION
FR	FIRE RATED
GSWB	GYPSUM WALL BOARD
HM	HOLLOW METAL
HOR	HORIZONTAL or HORIZONTALLY
INSUL	INSULATION
JT	JOINT
MI	MIRROR IMAGE
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MYL	METAL
NAT	NATURAL
NIC	NOT IN CONTRACT
OC	ON CENTER
OFICI	OWNER FURNISH CONTRACTOR INSTALL
PTD	PAINTED
REQ'D	REQUIRED
SIM	SIMILAR
STL	STEEL
SV	SHEET VINYL
TBD	TO BE DETERMINED
TYP	TYPICAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL or VERTICALLY
VIF	VERIFY IN FIELD
WP	WATERPROOF
WPM	WATERPROOF MEMBRANE
WR	WEATHER RESISTANT

Code Review

Job Number 915		Plainfield Library Documents/Code_Review.rvt
Date of Research:	July, 2002	
Project Name:	Philip Read Memorial Library Addition	915
Project Location:	Plainfield, New Hampshire	
Project Description:	Assembly	
Applicable Codes:	IBC 2000 NFPA 101 1997 - seventh edition	
Mixed Use Groups:	No	
Use Group 1:	Assembly (A-3)	IBC 303.1
Use Group 1:		Code Ref/Page:
Building Type:	Assembly (A-3)	
Height:		IBC Table 503
Actual:	28' 4" (Top of highest ridge)	
Height Modifications:	NA	IBC 504.2
Number of Floors:		IBC Table 503
Actual:	2	
Area (per floor):		IBC Table 503
Actual:	3,450SF New (1,007SF 4'-Existing)	
Area Modifications:	NA	IBC 506.3
General:		Code Ref/Page:
Fire Suppression System:	none	

Index of Drawings

Sheet Number	Sheet Title	Issue Date Bid Set	Issue Date Construction
Cover Sheet	Code Summary and Project Information		
C1.1	Site Plan	08/07/02	
S1.1	Foundation Plan	08/07/02	
S1.2	Upper Level Floor Framing Plan	08/07/02	
S1.3	Roof Framing Plan	08/07/02	
S1.4	Foundation Details	08/07/02	
S1.5	Structural Framing Details	08/07/02	
A1.1	Exterior Elevations	08/07/02	
A1.2	Exterior Elevations	08/07/02	
A2.1	Existing Floor Plans and Demolition Plan	08/07/02	
A2.2	Lower Level Plan	08/07/02	
A2.3	Upper Level Plan	08/07/02	
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A2.5	Lower Level Plan (Add Alternate)	08/07/02	
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A3.4	Wall Sections	08/07/02	
A3.5	Wall Sections	08/07/02	
A3.6	Elevator and Stair Sections and Plans	08/07/02	
A4.1	Lower Level Reflected Ceiling Plan	08/07/02	
A4.2	Upper Level Reflected Ceiling Plan	08/07/02	
A4.3	Lower Level Reflected Ceiling Plan (Add Alternate)	08/07/02	
A5.1	Finish Schedules, Casework and Restroom Elevations and Details	08/07/02	
A5.2	Finish Schedules, Interior Elevations and Details	08/07/02	
A6.1	Door Schedule and Details	08/07/02	
A6.2	Window Schedule and Details	08/07/02	
M1.1	Mechanical Plans	08/07/02	
M1.2	Schedules and Details	08/07/02	
P1.1	Plumbing Plans	08/07/02	
P1.2	Plumbing Plans	08/07/02	
E0.0	Electrical Legend/Details	08/07/02	
E1.0	Power Plans	08/07/02	
E1.1	Electrical Panels Schedules (New/Exist)	08/07/02	
E2.0	Lighting Plans	08/07/02	
E3.0	Communication Plans	08/07/02	
E4.0	Fire Alarm Plans	08/07/02	
ES1	Electrical Site Plan	08/07/02	

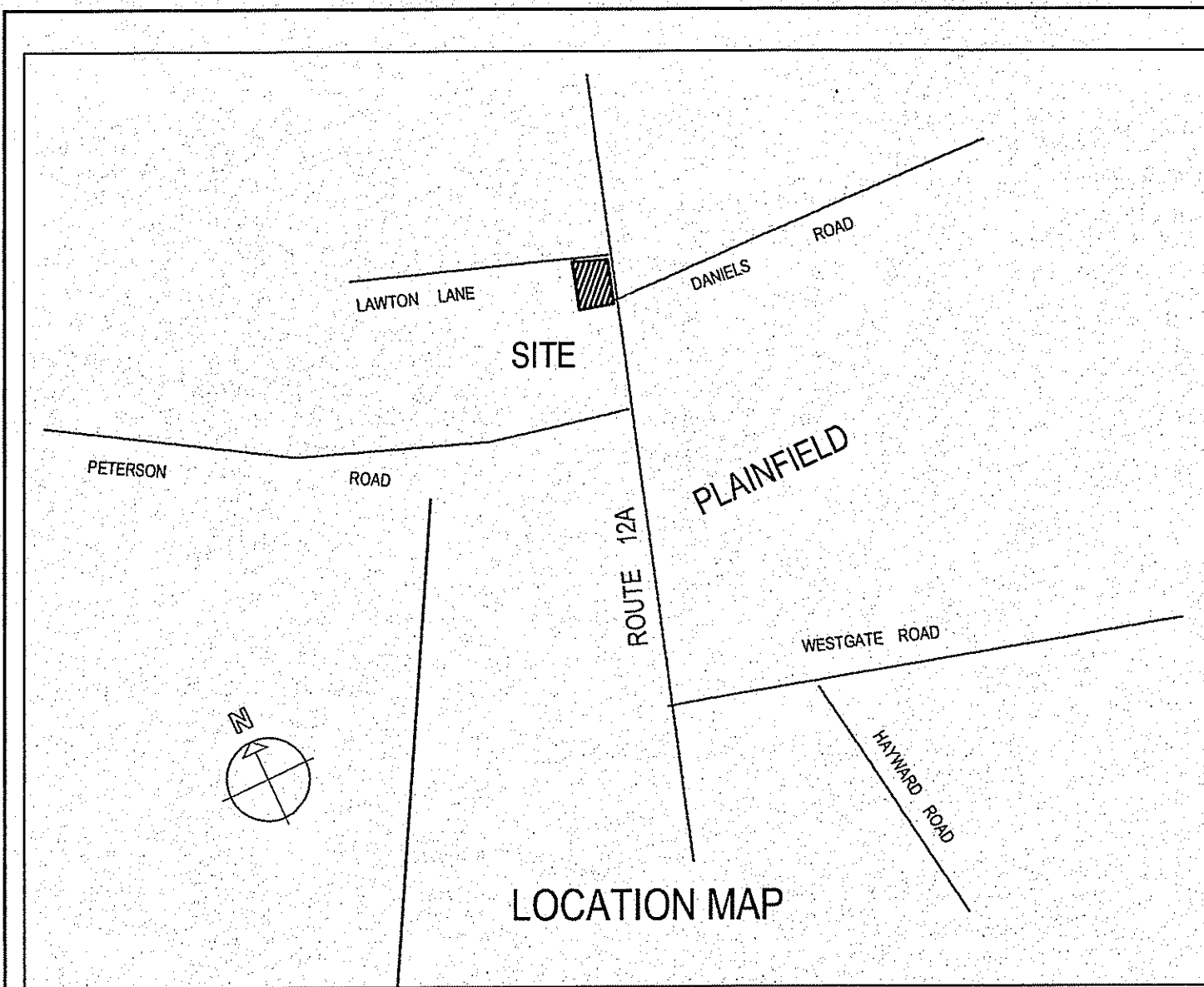
PARTY	NAME AND ADDRESS	PHONE
ARCHITECT	WELLER & MICHAL ARCHITECTS 222 WEST STREET, KEENE, NH 033431	603-357-4031
STRUCTURAL ENGINEER	Ted Fellows PE COUNTY ROAD WALPOLE, NH 03608	603-756-4811
PLUMBING ENGINEER	WV Engineering 11 KING COURT KEENE, NH 03431	603-352-7007
ELECTRICAL ENGINEER	WV Engineering Inc. 11 KING COURT KEENE, NH 03431	603-352-7007
MECHANICAL ENGINEER	WV Engineering Inc. 11 KING COURT KEENE, NH 03431	603-352-7007

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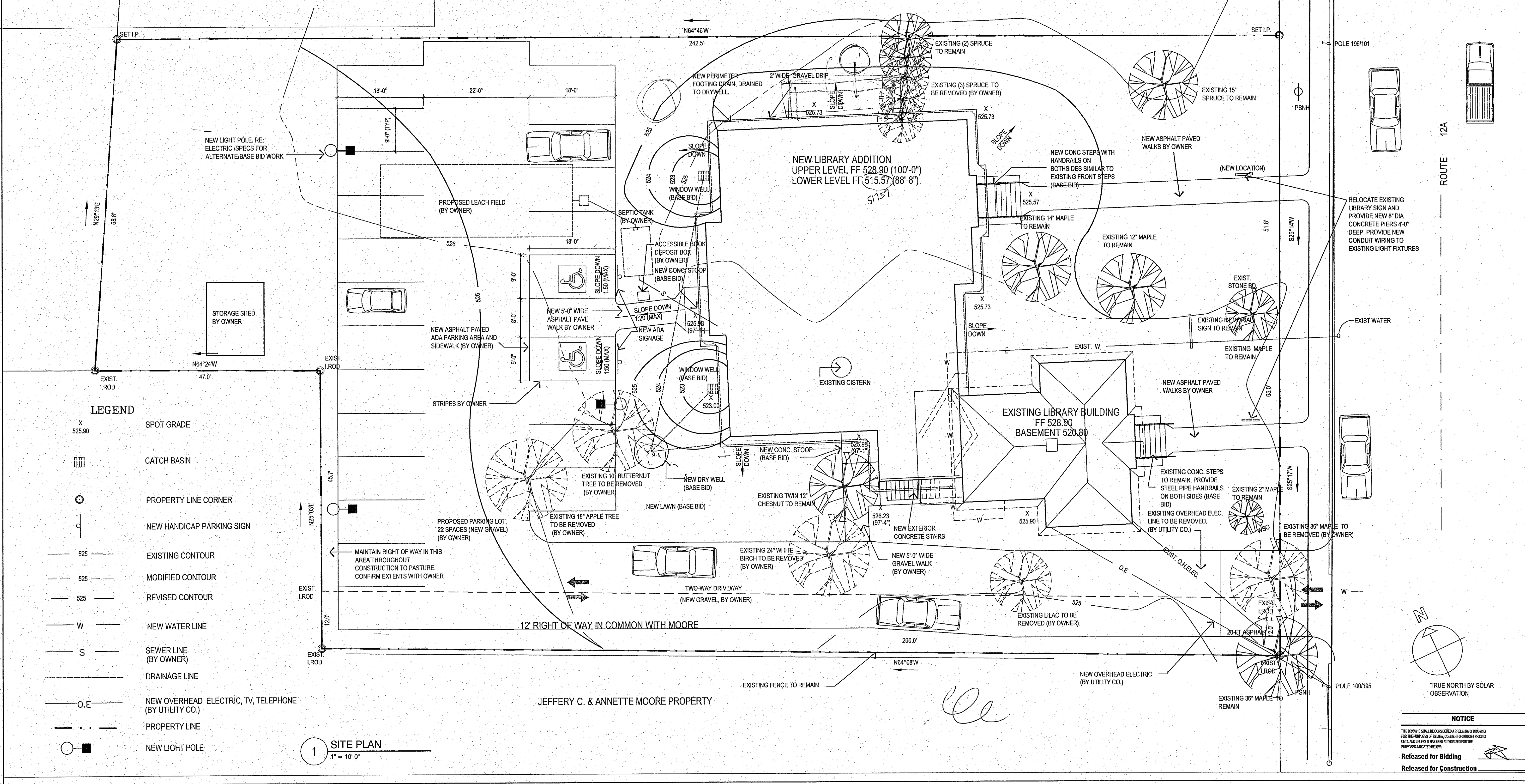


NOTES

1. ALL SURVEY INFORMATION INCLUDING PROPERTY LINES, CONTOURS ETC HAS BEEN PROVIDED BY WAYNE MCCUTCHEON ASSOCIATES, INC LOCATED IN CLAREMONT, NH.
2. LOCATION OF EXISTING UNDERGROUND UTILITIES HAS NOT BEEN VERIFIED AND HENCE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER UNDERGROUND UTILITIES THE EXISTENCE OF WHICH ARE NOT KNOWN. SIZE, TYPE AND LOCATION OF ALL UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE PROPER AUTHORITY PRIOR TO ANY AND ALL CONSTRUCTION. CALL DIG-SAFE PRIOR TO ANY EXCAVATION.
3. COORDINATE STOCKPILING OF LOAM TO FACILITATE INSTALLATION OF SEPTIC TANK AND LEACH FIELD.
4. PROTECT ALL TREES AND SHRUBS INDICATED TO REMAIN FROM DRAINAGE.

WORK TO BE COMPLETED BY OWNER UNDER A SEPARATE CONTRACT

1. REMOVAL OF THE INDICATED EXISTING TREES. REMOVAL OF ALL EXISTING SHRUBS.
2. ALL GRAVEL AND ASPHALT PARKING PAVING AND SIDEWALK
3. SEPTIC SYSTEM INCLUDING TANK AND LEACH FIELDS (EJECTOR PUMP IN BASE BID).
4. STORAGE SHED.
5. BUILDING AND DRY WELL EXCAVATION. REFER TO SPECIFICATION FOR EXTENTS



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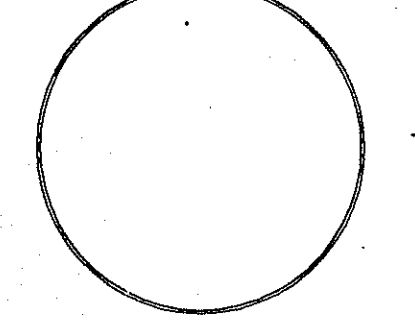
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PLAINFIELD, NEW HAMPSHIRE
SITE PLAN

08/07/02	OWNER/BIDDING
DATE	DISTRIBUTION
PROJECT NO. 915	
C1.1	
PROJECT ARCHITECT	Tom Weller

08/07/02 OWNER/BIDDING
DATE DISTRIBUTION

PROJECT NO. 915
C1.1

PROJECT ARCHITECT
Tom Weller



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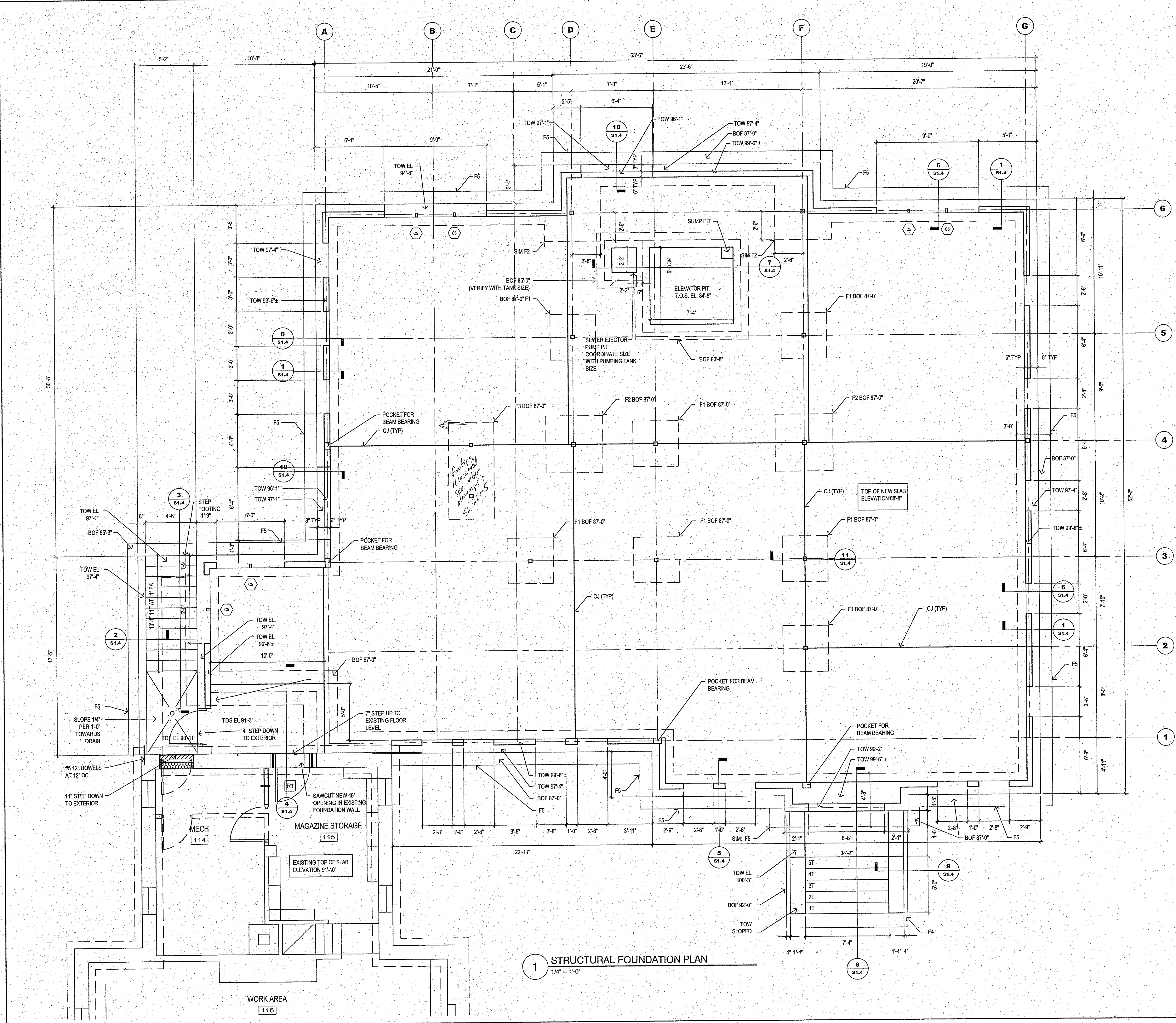
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FOOTING SCHEDULE		
FOOTING	SIZE	REINFORCING
F1	4'-0" X 4'-0" X 1'-0"	#5s AT 12" OC BEW
F2	5'-0" X 5'-0" X 1'-0"	#5s AT 12" OC BEW
F3	4'-0" X 8'-0" X 1'-0"	#5s AT 12" OC BEW
F4	10'-8" X 10'-0" X 1'-0"	#5s AT 12" OC BEW
F5	3'-0" X 1'-0" (CONTINUOUS)	(3) #5s CONT



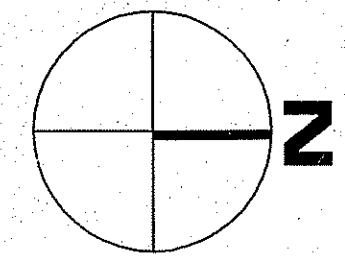
1 STRUCTURAL FOUNDATION PLAN
1/4" = 1'-0"

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FOUNDATION PLAN

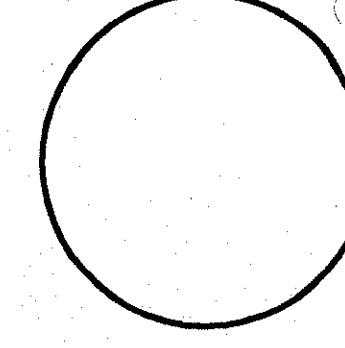
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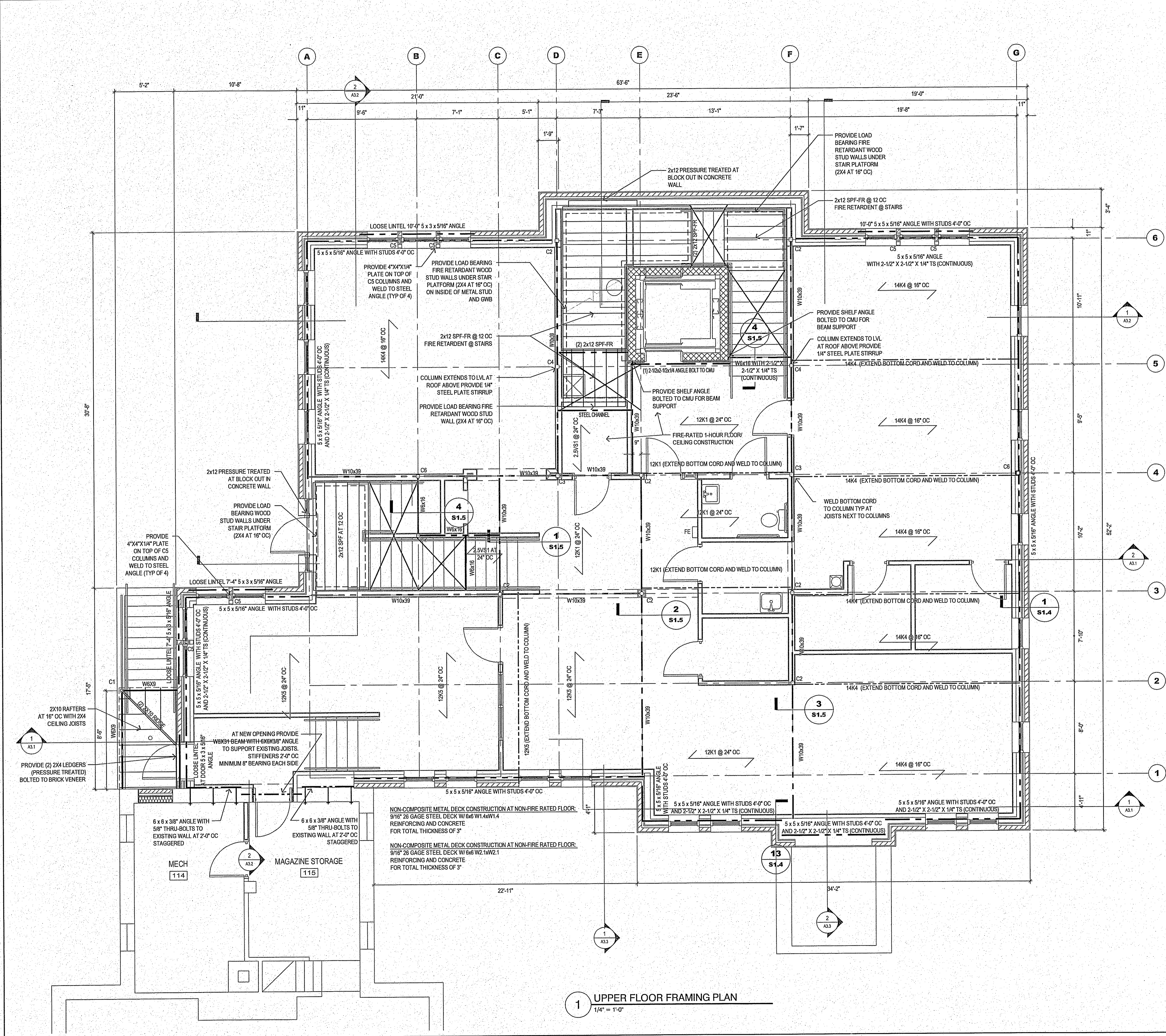
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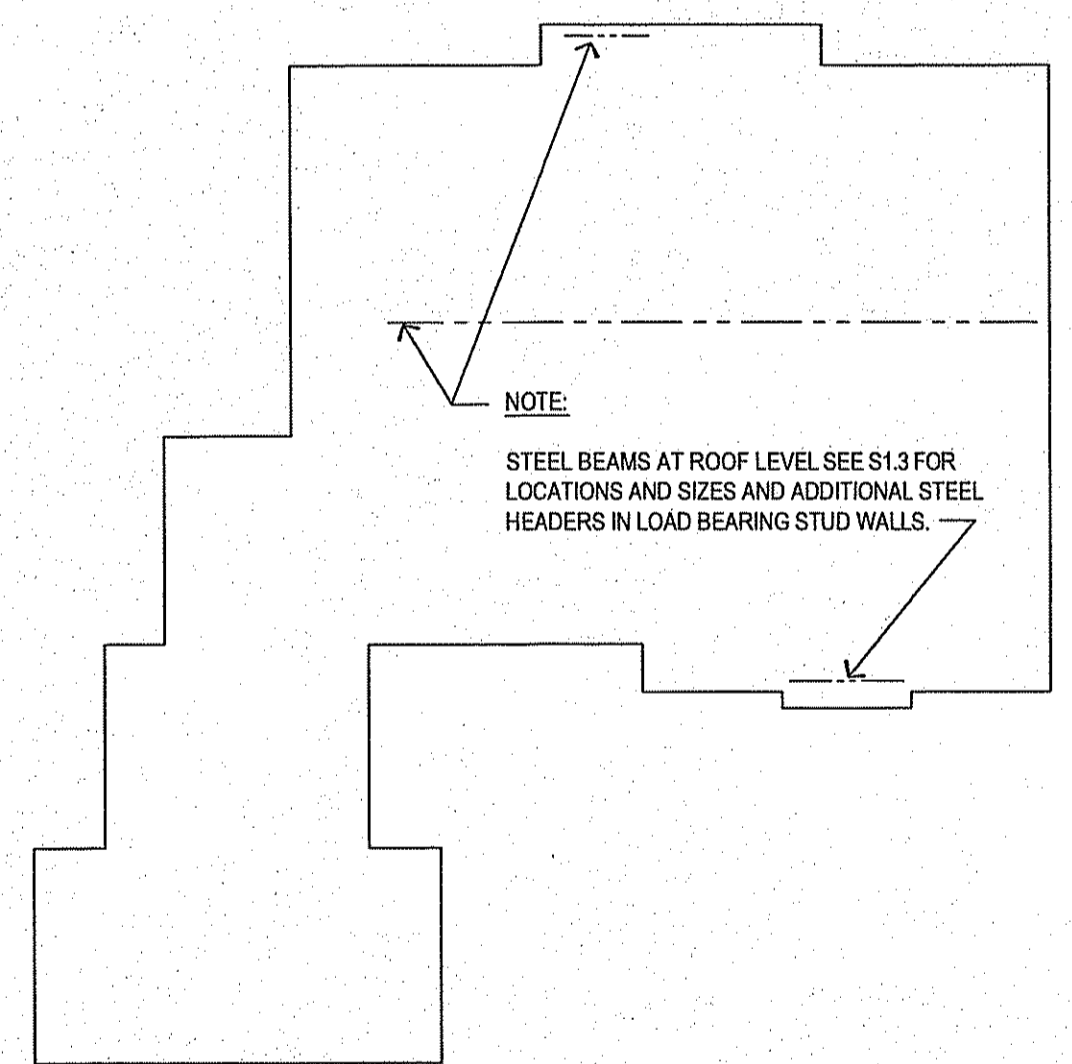




2 COLUMN SCHEDULE
NTS

LEVEL	COLUMN TYPE	C1	C2	C3	C4	C5	C6
BOTTOM OF LVL BEAM EL. 116'-2 3/4"							
TOP OF STEEL EL. 111'-2 1/2"							
TOP OF SLAB EL. 100'-0"							
TOP OF STEEL EL. 99'-8 1/2"							
BOTTOM OF STEEL LINTEL EL. 99'-4 1/4"							
TOP OF WALL EL. 97'-4"							
TOP OF WALL EL. 97'-0"							
TOP OF SLAB EL. 88'-0"							
TOP OF FOOTING EL. 88'-0"							
BASE PLATE TYPE		B	A	B	A	C	B

NOTE: COLUMN QUANTITIES PER PLAN



1 UPPER FLOOR FRAMING PLAN
1/4" = 1'-0"



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UPPER LEVEL FLOOR FRAMING PLAN

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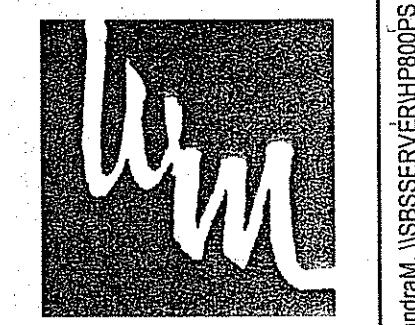
S1.2

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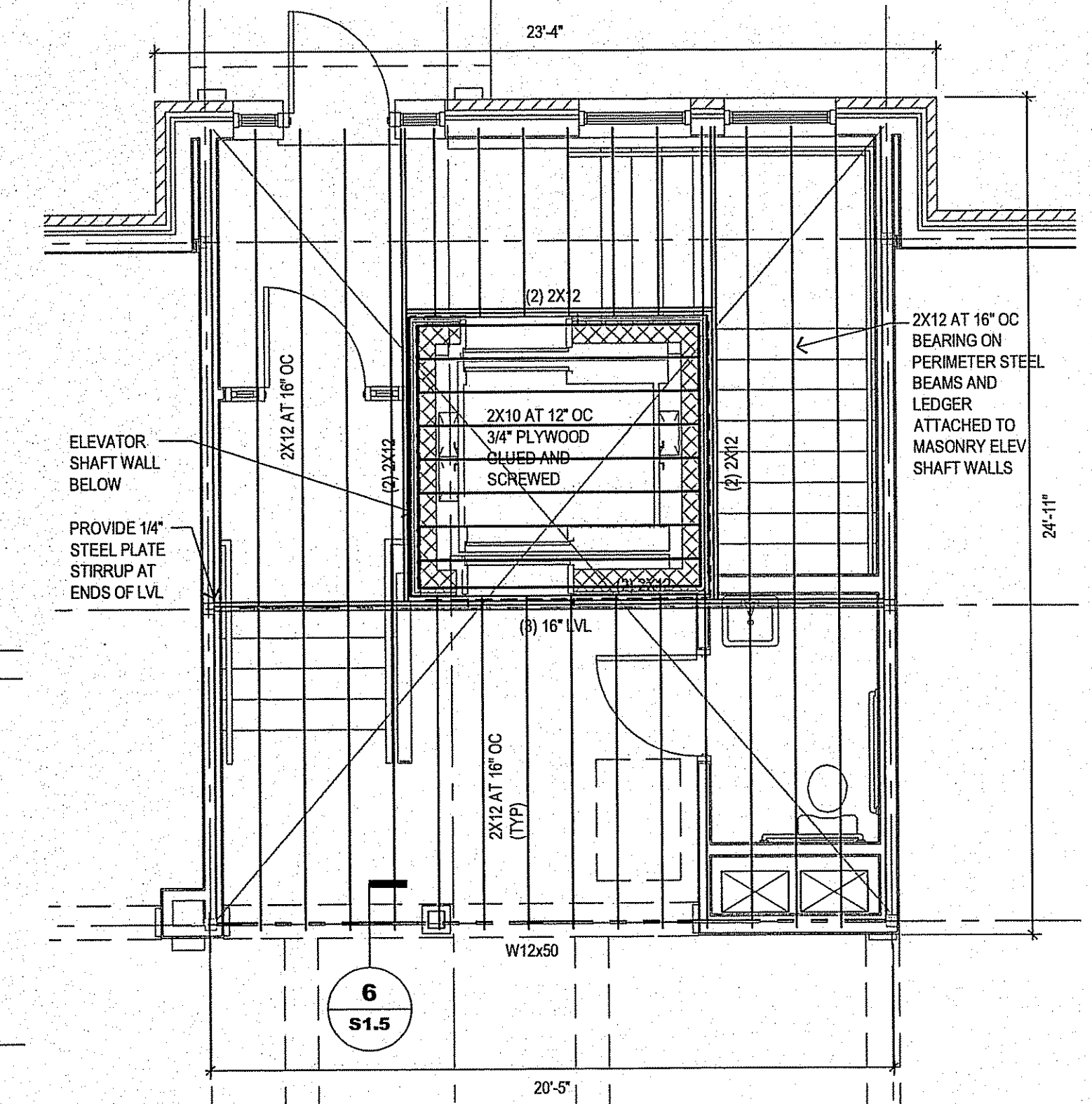
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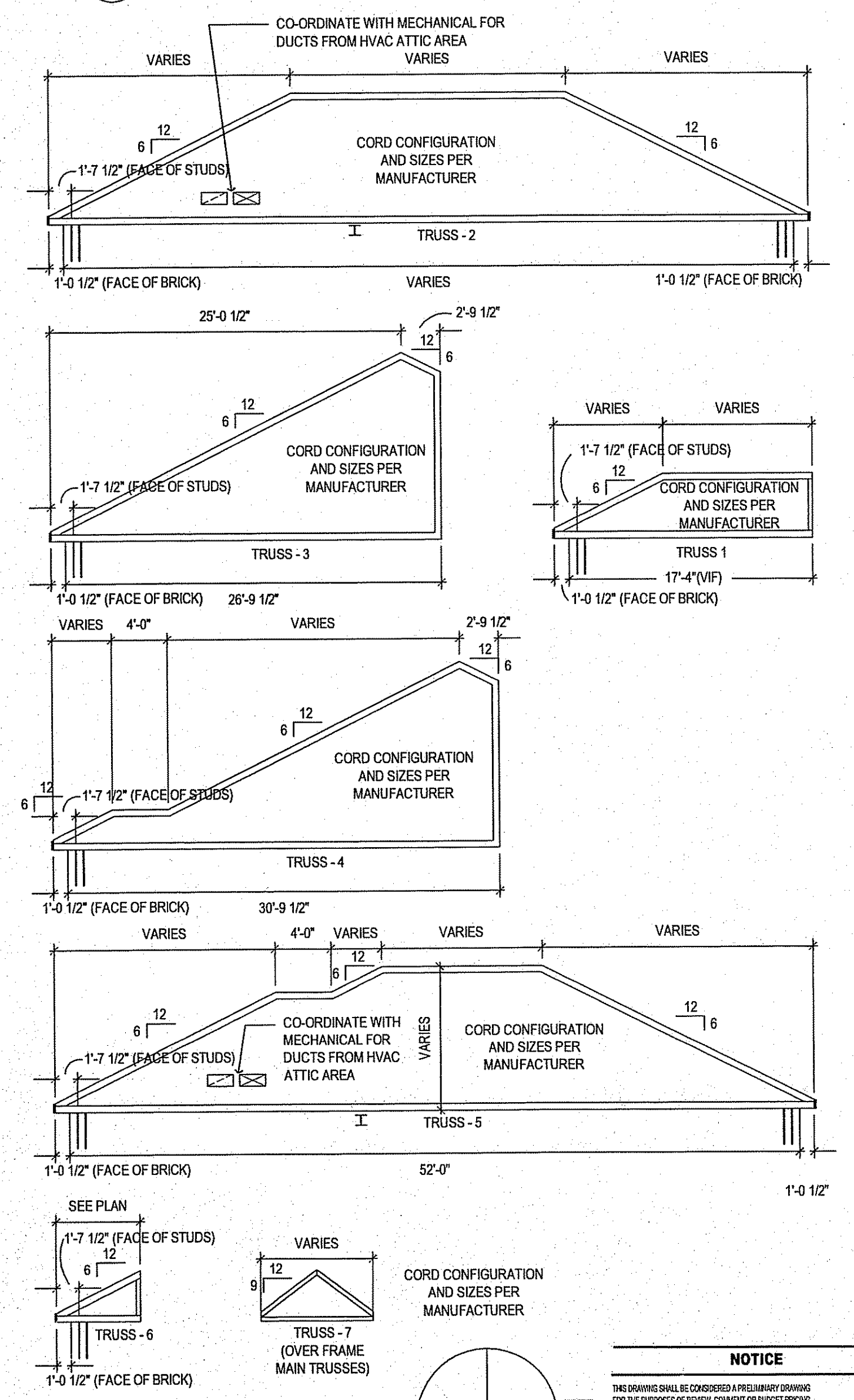
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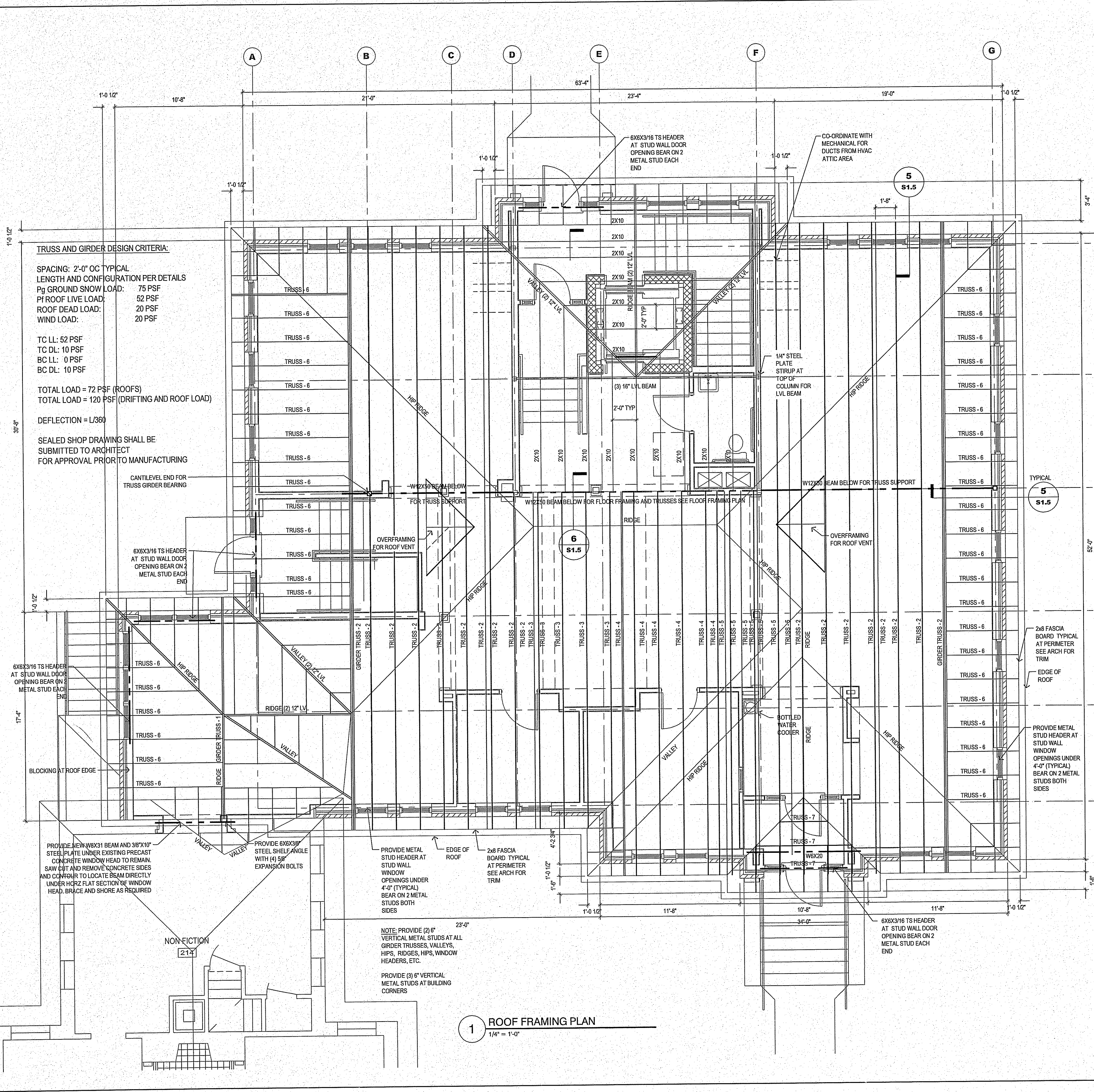


2 MECHANICAL EQUIP ATTIC FLOOR FRAMING PLAN
1/4" = 1'-0"



3 TRUSS ELEVATIONS
1/8" = 1'-0"

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1 ROOF FRAMING PLAN
1/4" = 1'-0"

TRUSS AND GIRDER DESIGN CRITERIA:
SPACING: 2'-0" OC TYPICAL
LENGTH AND CONFIGURATION PER DETAILS
Pg GROUND SNOW LOAD: 75 PSF
Pf ROOF LIVE LOAD: 52 PSF
ROOF DEAD LOAD: 20 PSF
WIND LOAD: 20 PSF

TC LL: 52 PSF
TC DL: 10 PSF
BC LL: 0 PSF
BC DL: 10 PSF

TOTAL LOAD = 72 PSF (ROOFS)
TOTAL LOAD = 120 PSF (DRIFTING AND ROOF LOAD)

DEFLECTION = L/360

SEALED SHOP DRAWING SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO MANUFACTURING

CANTILEVER END FOR TRUSS GIRDER BEARING

6x8x3/16 TS HEADER AT STUD WALL DOOR OPENING BEAR ON 2 METAL STUD EACH END

TRUSS - 6

TRUSS - 6

TRUSS - 6

TRUSS - 6

TRUSS - 6

TRUSS - 6

TRUSS - 6

TRUSS - 6

TRUSS - 6

TRUSS - 6

TRUSS - 6

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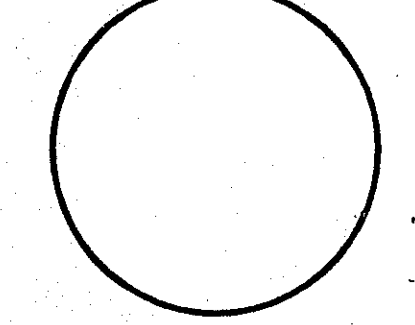
TRUSS - 6

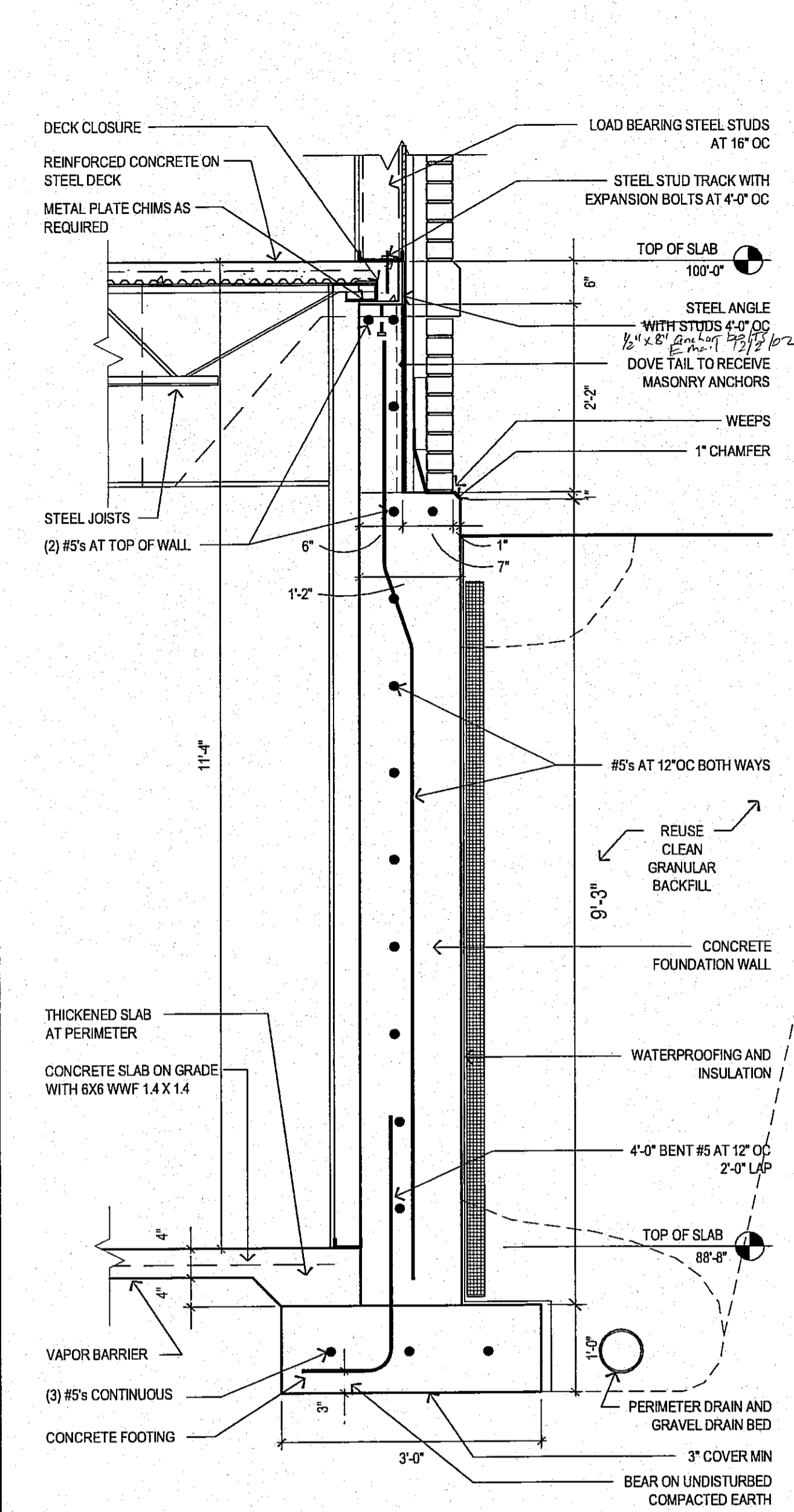
TRUSS - 6

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ROOF FRAMING PLAN
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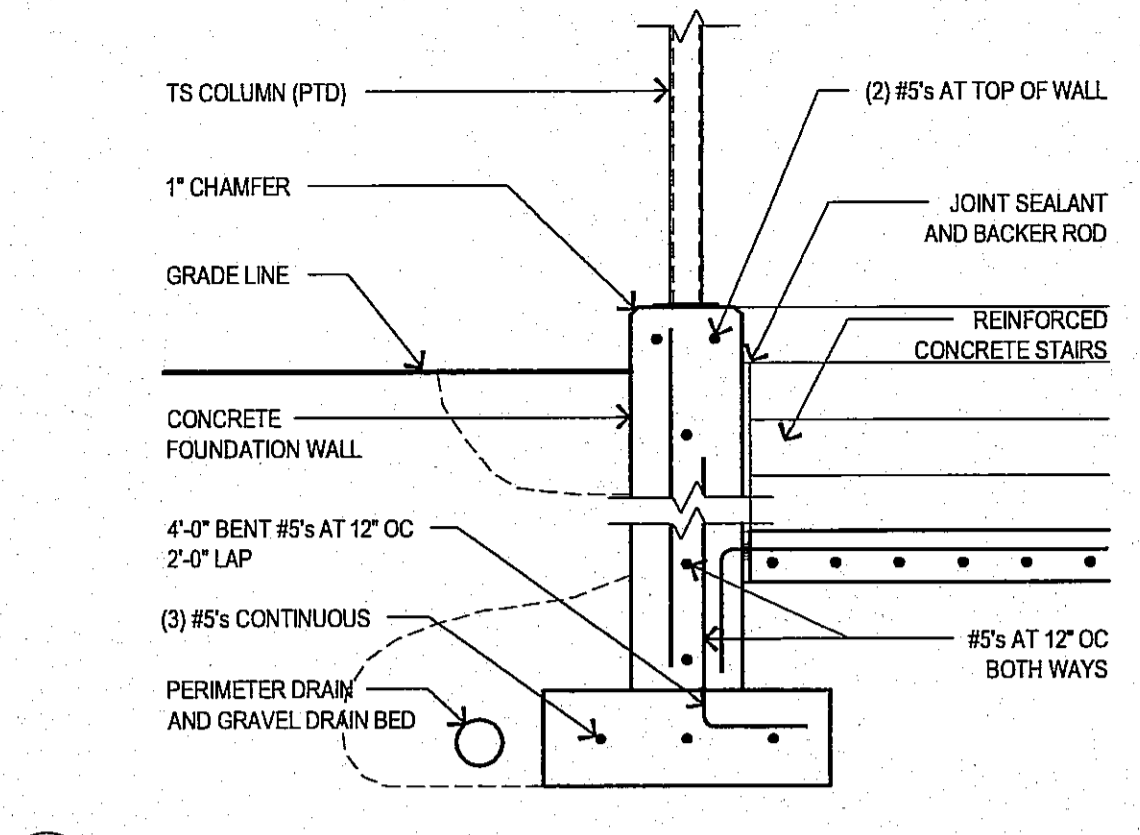
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DATE DISTRIBUTION
PROJECT NO. 915
S1.3

PROJECT ARCHITECT
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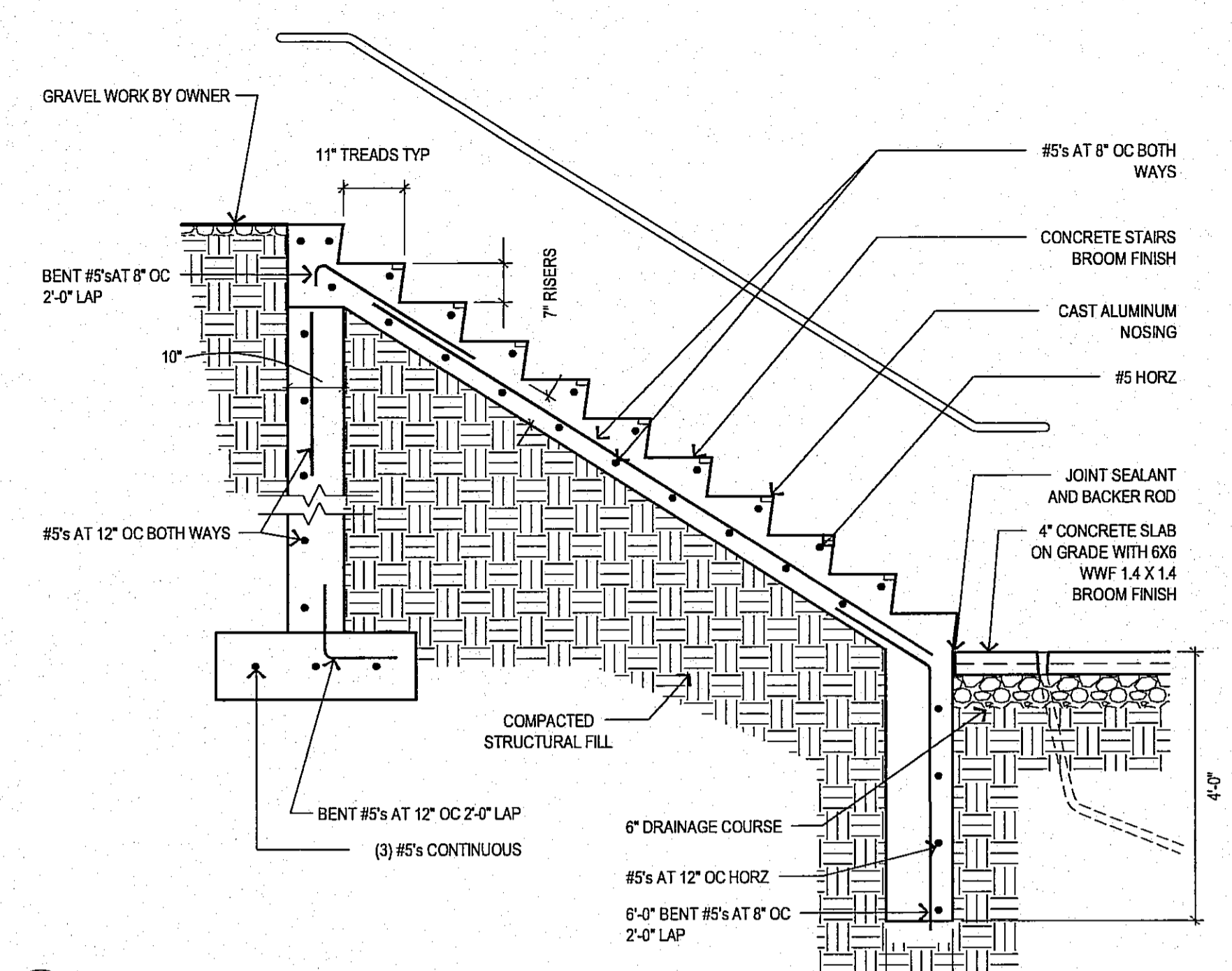




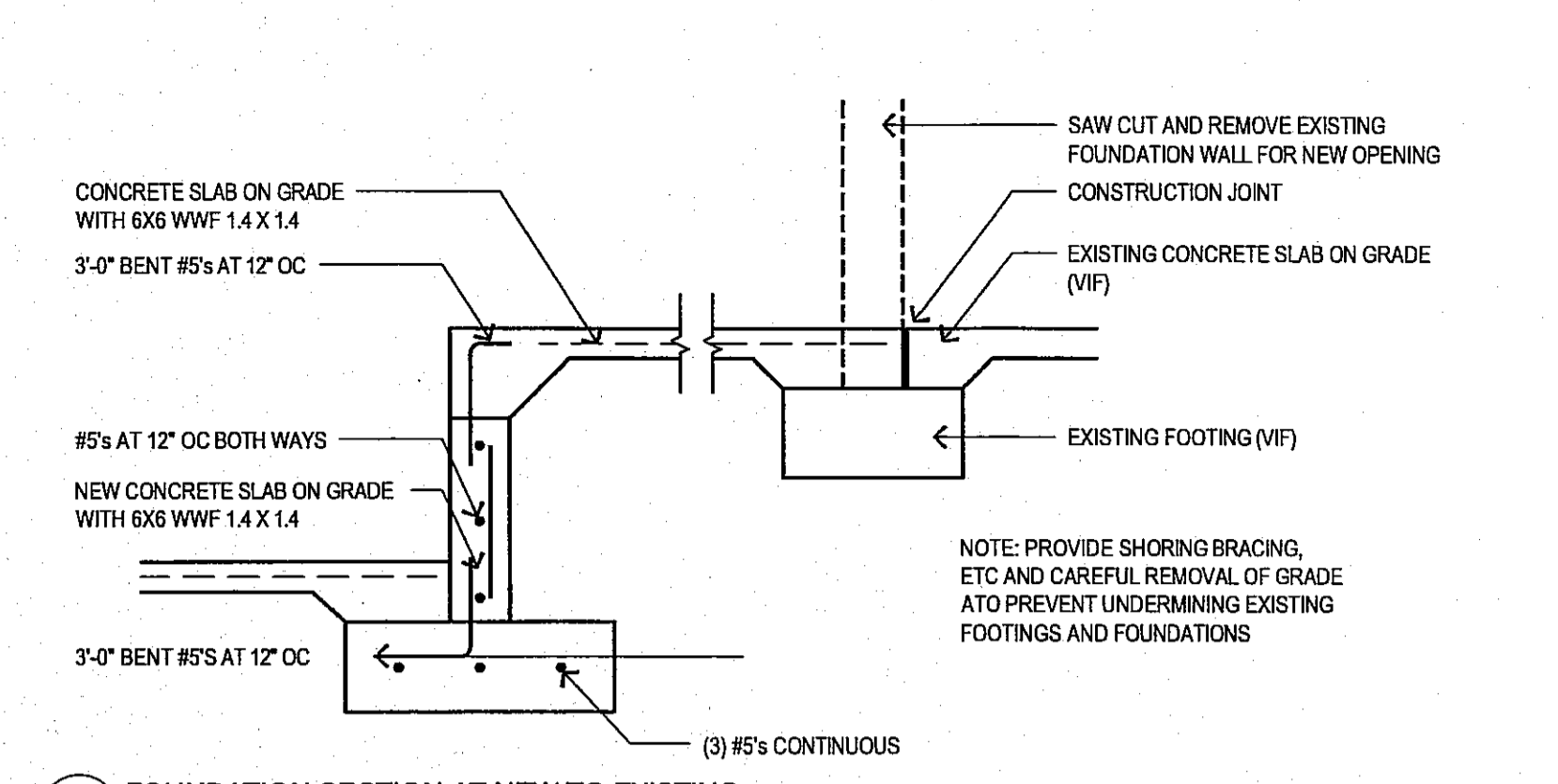
1 TYPICAL FOUNDATION WALL
3/4" = 1'-0"



2 FOUNDATION WALL AT EXTERIOR STAIRS TO BASEMENT
1/2" = 1'-0"

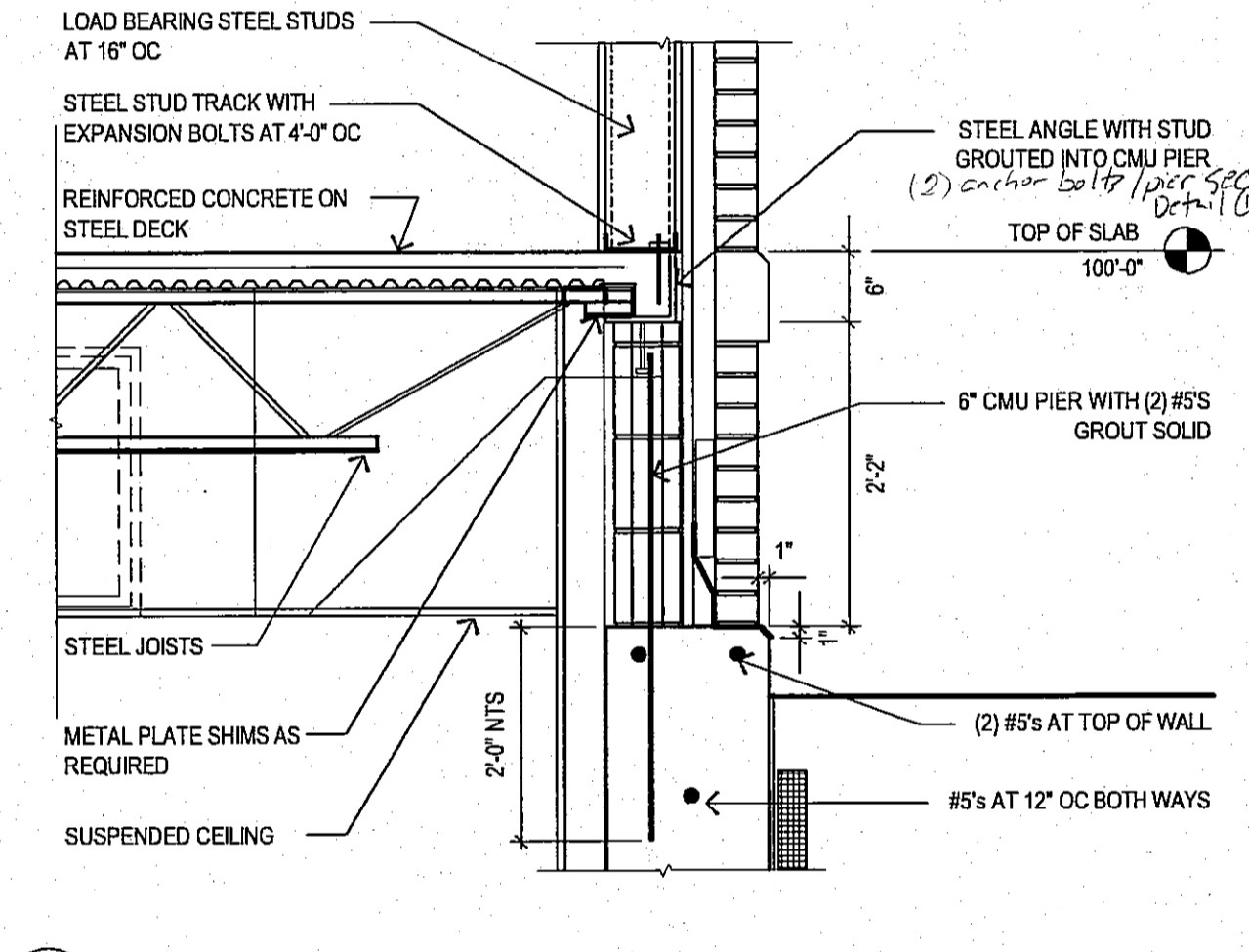


3 FOUNDATION SECTION AT NEW TO EXISTING
1/2" = 1'-0"

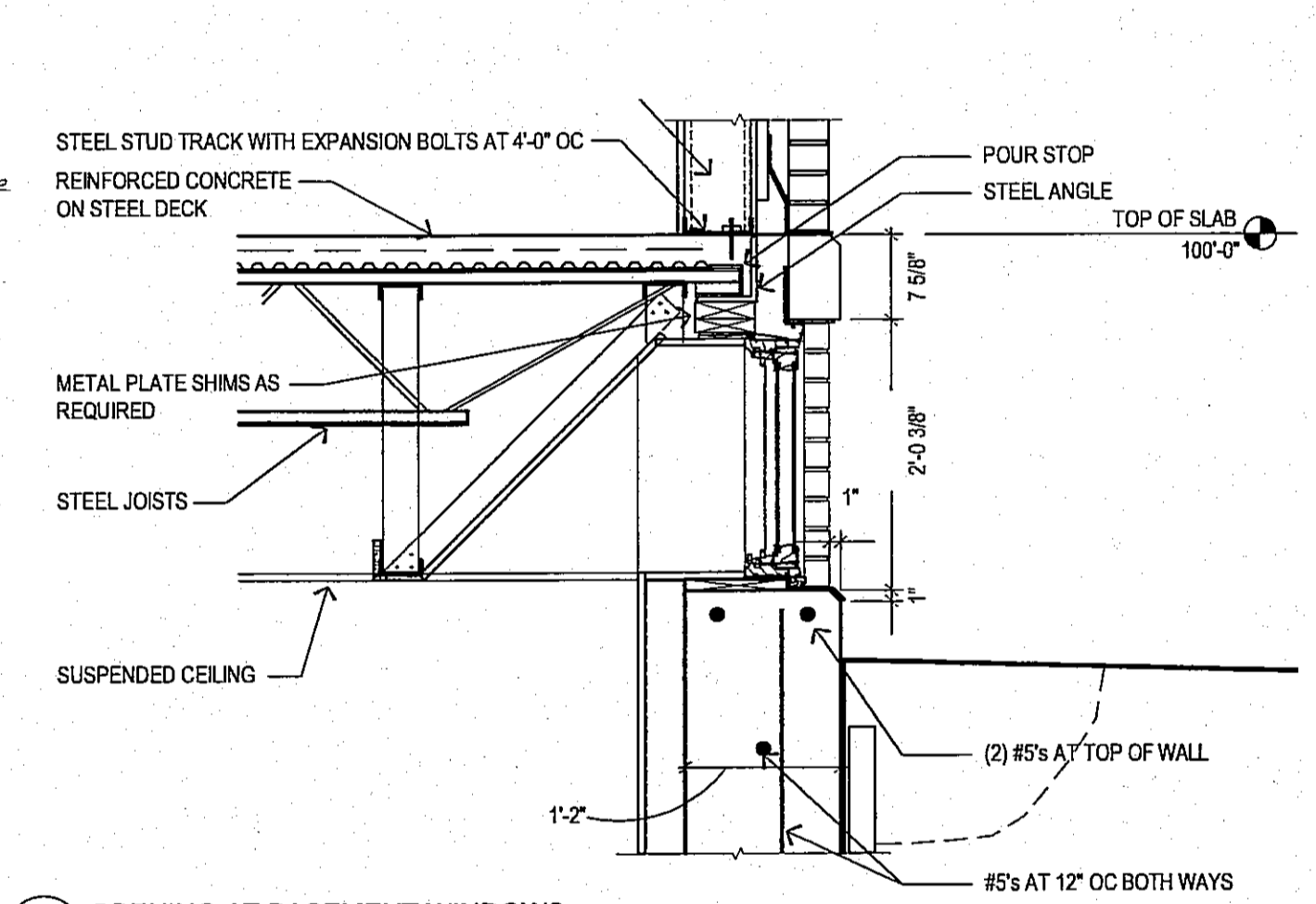


4 FOUNDATION SECTION AT NEW TO EXISTING
1/2" = 1'-0"

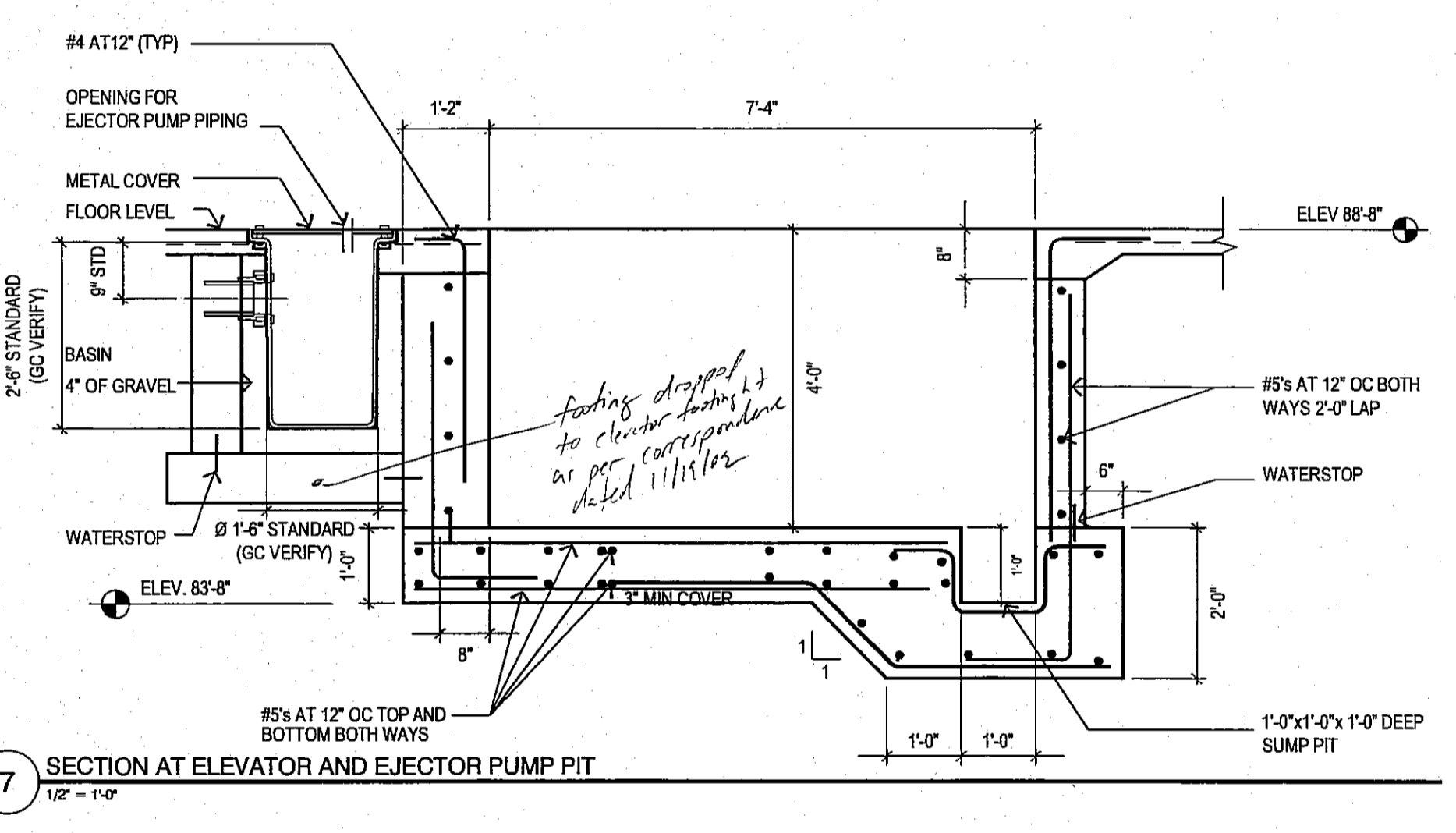
NOTE: PROVIDE SHORING BRACINGS, ETC AND CAREFUL REMOVAL OF GRADE TO PREVENT UNDERMINING EXISTING FOOTINGS AND FOUNDATIONS



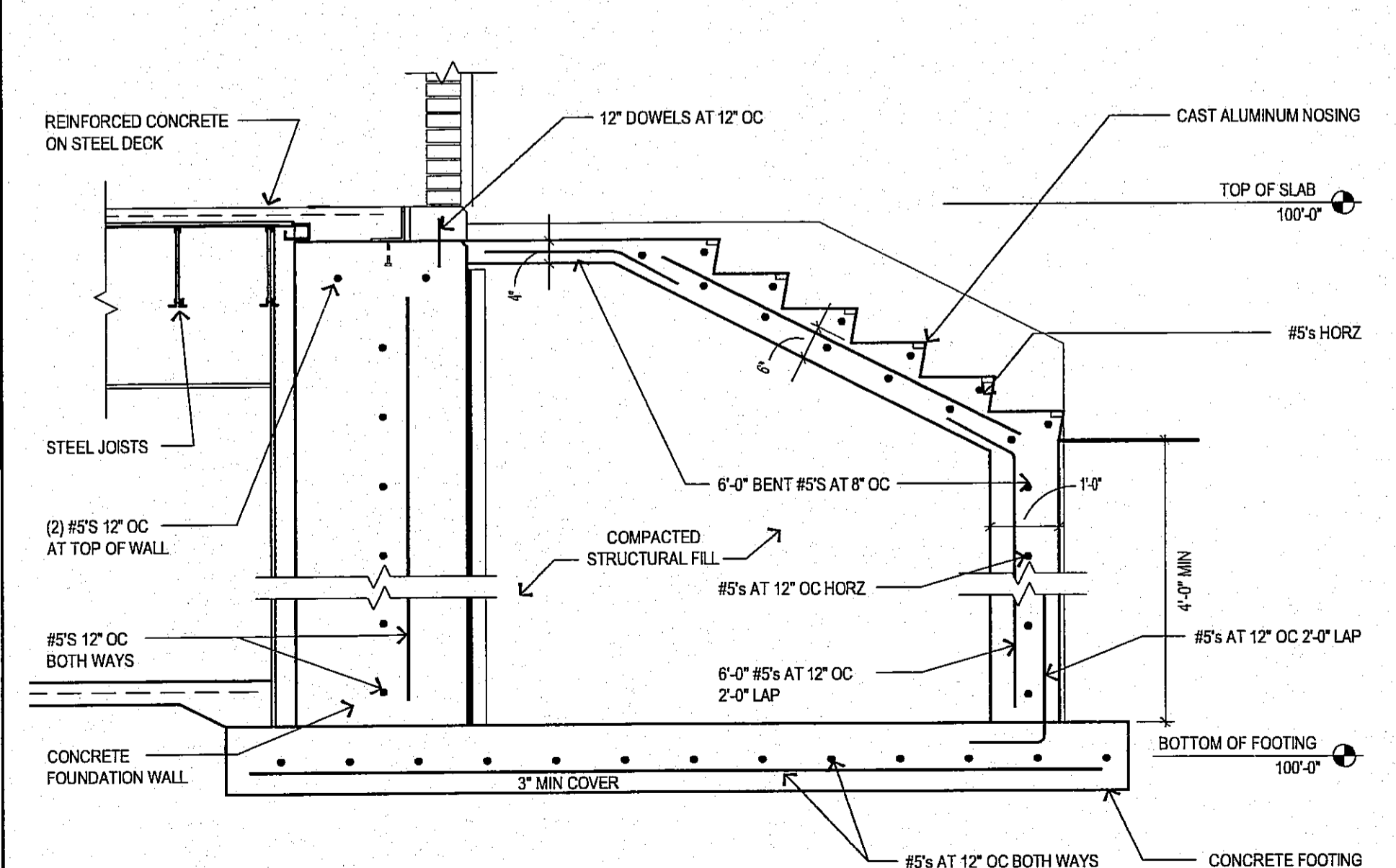
5 CMU PIER BETWEEN WINDOWS (TYP)
3/4" = 1'-0"



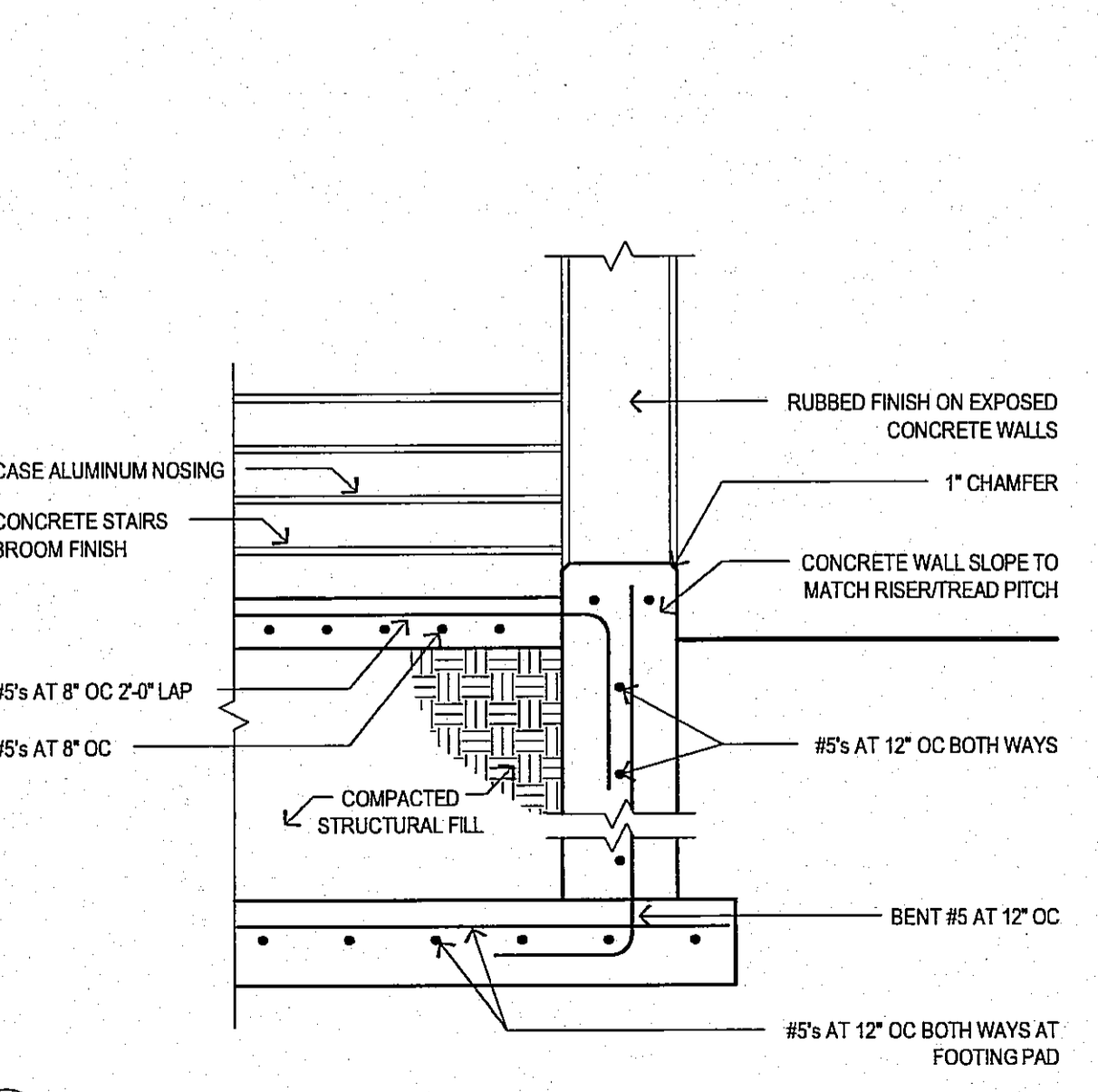
6 OPENING AT BASEMENT WINDOWS
3/4" = 1'-0"



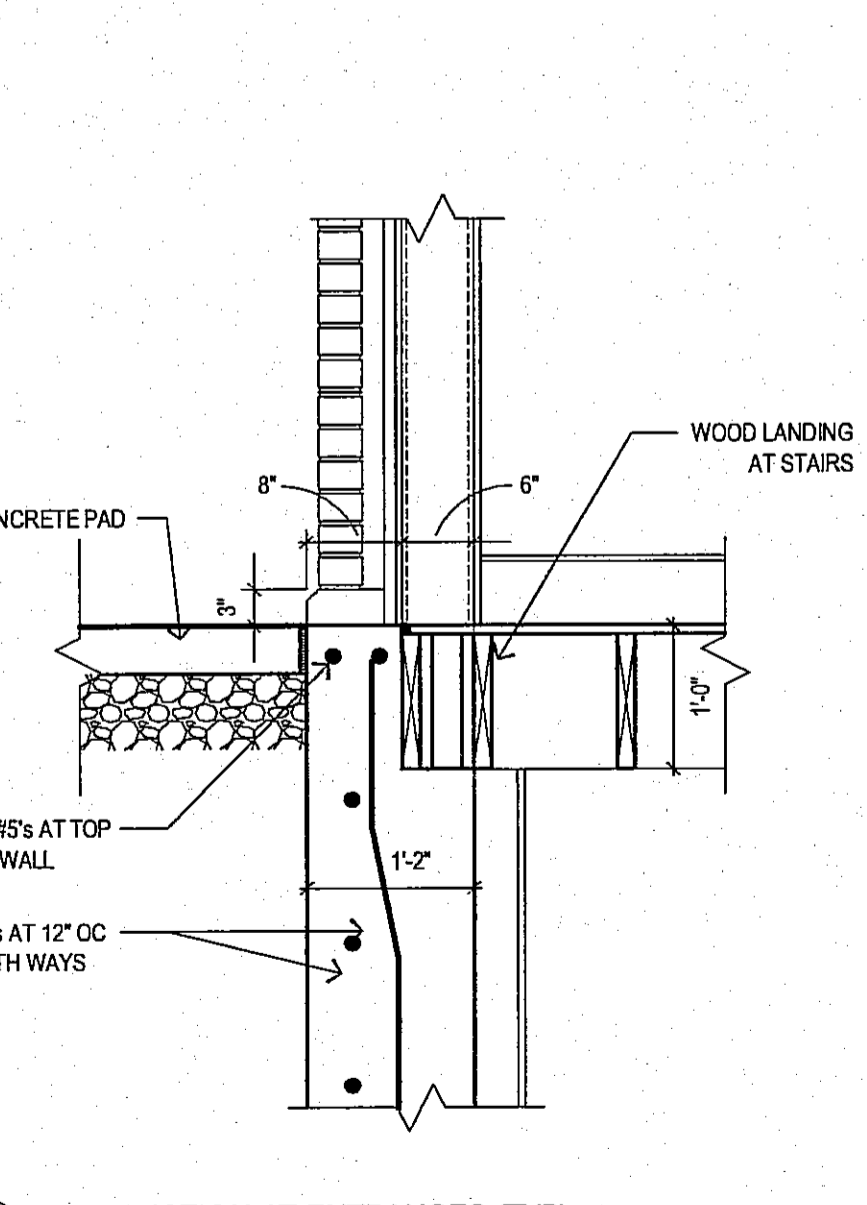
7 SECTION AT ELEVATOR AND EJECTOR PUMP PIT
1/2" = 1'-0"



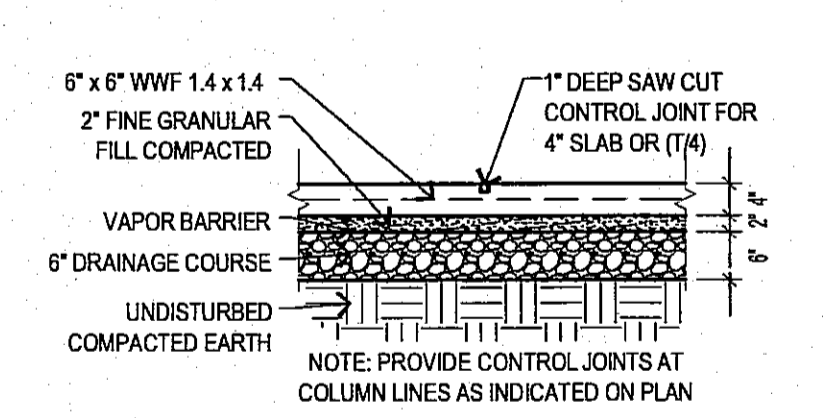
8 SECTION THROUGH FRONT ENTRANCE
1/2" = 1'-0"



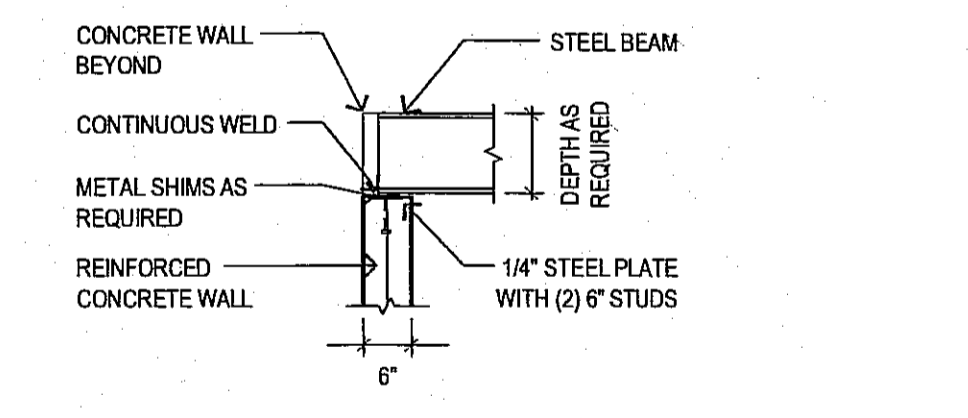
9 SECTION THROUGH STAIRS
1/2" = 1'-0"



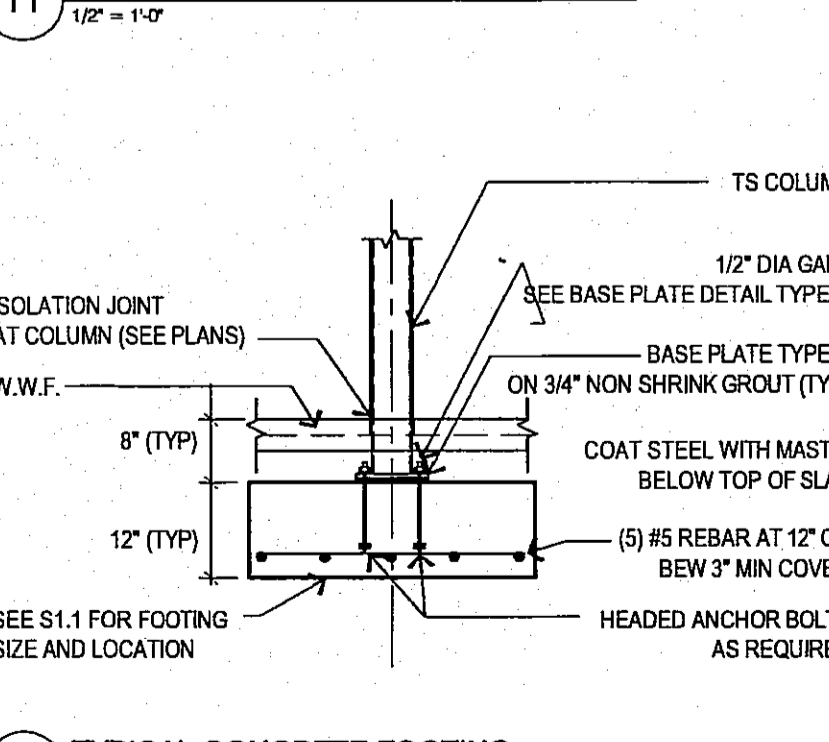
10 WALL SECTION AT ENTRANCES (TYP)
3/4" = 1'-0"



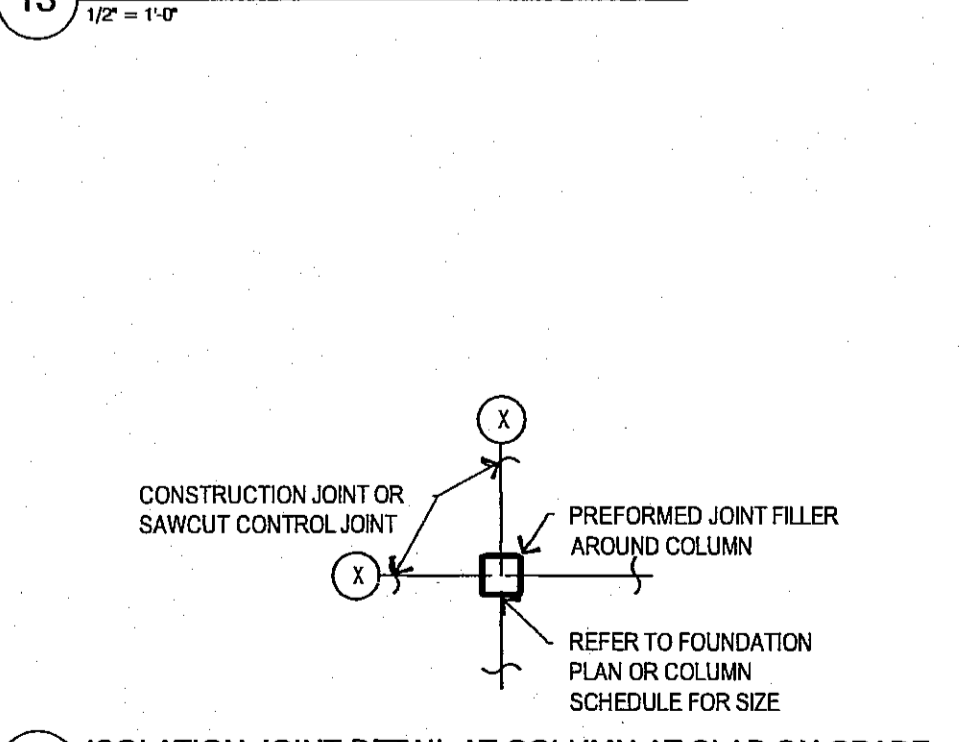
11 TYPICAL CONCRETE SLAB
1/2" = 1'-0"



13 TYPICAL POCKET FOR STEEL BEAMS
1/2" = 1'-0"

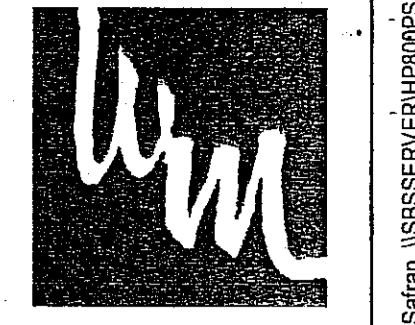


12 TYPICAL CONCRETE FOOTING
1/2" = 1'-0"



14 ISOLATION JOINT DETAIL AT COLUMN AT SLAB ON GRADE
1/2" = 1'-0"

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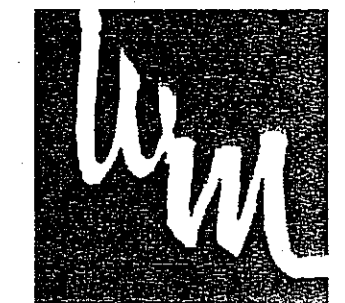
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GENERAL NOTES

(UNLESS OTHERWISE NOTED ON DRAWINGS OR IN SPECIFICATIONS)

GENERAL

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING AND SHOP DRAWINGS AND SPECIFICATIONS.
- ALL EXISTING DIMENSIONS AND CONDITIONS MUST BE VERIFIED OR DETERMINED IN THE FIELD AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- SHOP DRAWINGS FOR REINFORCING STEEL AND STRUCTURAL STEEL SHALL BE SUBMITTED TO THE ARCHITECT AND A STAMPED REVIEW SET RECEIVED BEFORE FABRICATION CAN PROCEED. ERECTION SHALL BE MADE FROM REVIEWED SHOP DRAWINGS ONLY.
- DETAILS SHOWN ON ANY DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND DETAILS NOT SHOWN.

FOUNDATION

- THE BOTTOM SURFACE OF ALL SPREAD FOOTINGS SHALL REST ON A MINIMUM 8" LAYER OF COMPACTED CRUSHED STONE OVER MIRAFIX10N GEOTEXTILE WITH AN ASSUMED ALLOWABLE BEARING PRESSURE OF 1 TON (2000 LB) PER SQUARE FOOT. REMOVE ALL ORGANICS, CLAYS, SILTS, OR UNSUITABLE OR UNCOMPACTED FILL MATERIALS FROM BENEATH NEW FOOTINGS AND REPLACE WITH COMPACTED STRUCTURAL FILL. REFER TO SECTION 02300 "EARTHWORK"
- THE ESTIMATED ELEVATION OF BOTTOM OF EACH FOOTING IS INDICATED THUS [X' - X"] ON PLAN. BOTTOM OF EACH EXTERIOR FOOTING SHALL BE A MINIMUM OF 4'-6" BELOW FINISH GRADE UNLESS NOTED OTHERWISE.
- NO FOOTING SHALL BE PLACED UNDER WATER OR ON FROZEN GROUND.
- NO BACKFILL SHALL BE PLACED AGAINST FOUNDATION WALLS RETAINING EARTH UNLESS WALLS ARE SUFFICIENTLY BRACED TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE.
- SEE THE SITE PLANS FOR THE APPROXIMATE LOCATION OF EXISTING UNDERGROUND UTILITIES. ADDITIONAL UNMAPPED UTILITIES MAY BE PRESENT WITHIN THE SCOPE OF THE PROJECT. UNLESS NOTED OTHERWISE, ALL EXISTING UTILITY INSTALLATIONS ARE TO BE MAINTAINED AND PROTECTED DURING CONSTRUCTION.
- COMPACTION OF ALL FILL AND BACKFILL SHALL BE TO 95% MAXIMUM DENSITY AS MEASURED IN ACCORDANCE WITH ASTM D1557, PLACED IN MAXIMUM 12" LIFTS PER SECTION 02300 "EARTHWORK".

CONCRETE

- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI STANDARD 301 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF AT LEAST 3000 PSI, EXCEPT EXTERIOR PAVING, AND SLABS ON GRADE SHALL BE 3500 PSI. ALL CONCRETE FLOORS ON METAL DECKS AND WOOD FLOORS SHALL BE 3000 PSI.
- ALL REINFORCING BARS SHALL CONFORM TO ASTM A 615 GRADE 60, AND SHALL BE DEFORMED. LAP ALL CONTINUOUS BARS 40 DIAMETERS. PROVIDE MATCHING CORNER AND INTERSECTION BARS.
- ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185. LAP ONE AND ONE-HALF SQUARES AT ALL JOINTS AND TIE AT 3'-0" O.C.
- CLEAR CONCRETE PROTECTION FOR REINFORCING:
 - BOTTOM OF FOOTINGS: 3"
 - FOUNDATION WALLS: 1 1/2"
 - SLABS ON GRADE: 1" FROM TOP
 - PIERS: 2" TO TIES
 - PILASTERS: 1 1/2" TO TIES
- NO BARS SHALL BE CUT OR OMITTED IN THE FIELD BECAUSE OF SLEEVES, DUCT OPENINGS OR RECESSES. BARS MAY BE MOVED ASIDE WITHOUT CHANGE IN LEVEL, WITH THE APPROVAL OF THE ARCHITECT.
- NO CHASES, OPENINGS OR SLEEVES SHALL BE INSTALLED IN CONCRETE WITHOUT APPROVAL OF THE ARCHITECT.
- ALL COLUMN, PIER AND PILASTER DOWELS SHALL BE SET BY TEMPLATE. ALL ANCHOR BOLTS SHALL BE SET BY TEMPLATE.
- HORIZONTAL CONSTRUCTION JOINTS SHALL BE AS INDICATED ON THE DRAWINGS. VERTICAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ARCHITECT. ALL CONSTRUCTION JOINTS SHALL BE FORMED WITH A STANDARD KEY AND ALL REINFORCING EXTENDED A MINIMUM OF 40 DIAMETERS (24 INCHES).
- ALL FLOOR SLABS SHALL BE POURED TO THE REQUIRED ELEVATION. ALL SLAB THICKNESSES INDICATED ARE MINIMUM.
- DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL, LATEST EDITION.
- PROVIDE 10 MIL REINFORCED POLYETHYLENE VAPOR RETARDER WITH TAPED SEAMS BELOW INTERIOR SLABS ON GRADE.

REINFORCED MASONRY CONSTRUCTION

- CONCRETE MASONRY SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION, PORTLAND CEMENT ASSOCIATION AND AMERICAN CONCRETE INSTITUTE CODES.
- CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT CONFORMING TO THE FOLLOWING:
 - HOLLOW LOAD-BEARING, ASTM C90, GRADE N, TYPE I, MINIMUM COMPRESSIVE STRENGTH ON THE NET AREA OF 1500 PSI, TWO CELLS WITH A MINIMUM OF 50% SOLID
- MORTAR SHALL CONFORM TO ASTM C270, TYPE S WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
 - TYPE S - 2,500 PSI
- GROUT SHALL CONFORM TO ASTM C476, FINE OR COARSE TYPE AS APPROPRIATE, WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. LOW-LIFT GROUTING SHALL BE USED IN LIFTS OF 4 FEET OR LESS.
- HORIZONTAL WALL REINFORCEMENT TO BE UNCOATED TRUSS OR LADUR TYPE WITH NO. 9 GAGE UNCOATED WIRE CONFORMING TO ASTM A82, AS MANUFACTURED BY DUR-O-WAL, INC. OR APPROVED EQUAL REINFORCING TO BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS INDICATED OTHERWISE ON THE PLANS.
- HORIZONTAL AND VERTICAL REINFORCING SHALL COMPLY WITH THE ABOVE CODES AND BE OF TYPE, SIZE AND SPACING INDICATED ON THE DRAWINGS. DEFORMED BARS SHALL COMPLY WITH ASTM A615 GRADE 60, COLD-DRAWN STEEL WIRE SHALL CONFORM TO ASTM A82 AND DEFORMED STEEL WIRE SHALL CONFORM TO ASTM A496.
- THE CONTRACTOR SHALL SUBMIT (PRIOR TO CONSTRUCTION) A DESIGN MIX FOR THE MORTAR AND GROUT TO THE ENGINEER FOR APPROVAL. THEY SHALL BE IN ACCORDANCE WITH THE APPROPRIATE ASTM SPECIFICATIONS AND INCLUDE ACTUAL 28 DAY COMPRESSIVE STRENGTH TESTS.
- THE CONTRACTOR SHALL SUBMIT (PRIOR TO CONSTRUCTION) SAMPLES ON THE PROPOSED MASONRY UNITS TO THE ARCHITECT FOR APPROVAL. THEY SHALL BE IN ACCORDANCE WITH THE APPROPRIATE ASTM SPECIFICATIONS AND INCLUDE ACTUAL COMPRESSIVE STRENGTH, ABSORPTION, WEIGHT, MOISTURE CONTENT AND DIMENSIONS.
- THE OWNER MAY EMPLOY AN ENGINEERING FIRM TO PERFORM FIELD TESTING DURING CONSTRUCTION ON THE MORTAR, GROUT AND MASONRY UNITS.
- NORMAL MASONRY CONSTRUCTION WEATHER CONDITIONS ASSUMES THE AIR TEMPERATURE TO BE BETWEEN 40 AND 90 DEGREES FAHRENHEIT WITH MINIMAL WIND AND RAIN, PLUS AVERAGE RELATIVE HUMIDITY. IF CONDITIONS OTHER THAN THESE OCCUR, THE CONTRACTOR MUST MODIFY CONSTRUCTION PROCEDURES IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND THE ABOVE NOTED CODES.
- EXTERIOR WALLS SHALL BE CONSTRUCTED IN A WEATHERTIGHT MANNER WITH ALL NECESSARY FLASHING AND WEEPS. THEY SHALL RECEIVE TWO (ONE) COATS OF AN APPROVED, GOOD QUALITY, WATER PROOFING AGENT. RECOAT AS REQUIRED TO MAINTAIN A PERMANENT WATERTIGHT SURFACE.

- FRESHLY LAID MASONRY SHALL BE PROPERLY BRACED AGAINST WIND FORCES.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS USE BOND BEAM WITH 2 #5 HORIZONTAL REINFORCING ABOVE EACH OPENING AND USE #5 VERTICAL REINFORCING AT EACH SIDE OF THE OPENING.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL MATERIALS, WORKMANSHIP AND DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS." STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
 - SHAPES: ASTM A36 Fy = 36 KSI
 - PLATES & ANGLES: ASTM A36 Fy = 36 KSI
 - TUBES: ASTM A500 GRADE B Fy = 46 KSI
 - PIPE: ASTM A53A, TYPE E S, GRADE B
 - OPEN WEB STEEL JOIST: MAX ALLOW TENSILE STRESS 30 KSI
- ALL SHOP CONNECTIONS SHALL BE WELDED TO CONFORM TO SPECIFICATION ASTM A 233, E70-XX SERIES OR BOLTED TO CONFORM TO ASTM A 325.
- UNLESS OTHERWISE NOTED, ALL FIELD CONNECTIONS SHALL BE BOLTED TO CONFORM TO ASTM A 325, TYPE N BOLTS.
- PROVIDE 1/4" THICK LEVELING PLATE UNDER ALL COLUMN BASE PLATES. LEVELING PLATES SHALL BE SET AND GROUTED SOLID WITH AN APPROVED NON-SHRINK GROUT BEFORE ERECTION OF COLUMN.
- PROVIDE 3/4" DIAMETER ANCHOR BOLTS AT COLUMNS, AS INDICATED ON THE DRAWINGS. BOLTS SHALL CONFORM TO ASTM A 307, UNLESS OTHERWISE NOTED. ALL ANCHOR BOLTS SHALL BE HEADED TYPE. USE GALVANIZED BOLTS IN EXPOSED LOCATIONS ADJACENT TO EXTERIOR WALLS.
- PROVIDE 3/8" MINIMUM STIFFENER PLATES EACH SIDE AT ALL BEAMS OVER COLUMNS AND AT ALL COLUMNS OVER BEAMS, UNLESS OTHERWISE NOTED.
- ALL STEEL EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED UNLESS INDICATED OTHERWISE.
- PIPE SIZES ARE NOMINAL DIAMETERS AND PIPES ARE STANDARD WEIGHT, UNLESS NOTED OTHERWISE.
- ALL STEEL TO BE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, UNLESS NOTED OTHERWISE.

COLD FORM METAL FRAMING

- LIGHTWEIGHT STEEL FRAMING SHALL COMPLY WITH THE FOLLOWING CODES AND REGULATIONS:
 - SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI EDITION.
 - CODE FOR WELDING IN BUILDING CONSTRUCTION, AW
 - METAL BUILDING SYSTEMS MANUAL, MIMSA
 - IBC, 2000
- ALL STUDS, JOISTS, STRAPS, CLIPS, ETC. SHALL BE HOT-DIP GALVANIZED, G-60 (ASTM A525)
- STEEL FOR STRUCTURAL MEMBERS SHALL HAVE THE FOLLOWING MINIMUM YIELD STRESS:
 - 16 GAGE OR HEAVIER - 50KSI
 - 18 GAGE OR LIGHTER - 30KSI
 STEEL TRACKS AND RUNNERS SHALL BE OF A GAGE EQUAL TO OR GREATER THAN THE GAGE OF THE STUDS.
- WHERE INDICATED ON THE FRAMING PLANS, THE MEMBER DESIGNATIONS INDICATE FLANGE WIDTHS AS FOLLOWS:
 - "CW" - 1.375" FLANGE "CSE" - 2.500" FLANGE
 - "CSJ" - 1.625" FLANGE "TSB" - 1.250" FLANGE
 - "CSW" - 2.000" FLANGE "DU" - 0.500" FLANGE
- ALL CONNECTIONS SHALL BE MADE BY SELF-DRILLING SCREWS OR WELDING, SUCH THAT THE CAPACITY OF THE CONNECTION MEETS OR EXCEEDS THE DESIGN LOADS. TRACKS SHALL BE ATTACHED TO CONCRETE USING POWER DRIVEN FASTENERS OR DRILLED SLEEVED ANCHORS. FASTENERS SHALL BE SPACED AT SAME SPACING AS STUDS. FASTENERS SHALL HAVE SHEAR AND PULLOUT CAPACITIES EQUAL TO HLTI DN 27 P08. ATTACH TRACKS TO CONCRETE/STEEL USING ANCHOR BOLTS AT 4'-0" ON CENTER.
- INSTALLATION REQUIREMENTS, GENERAL:
 - BEARING WALL STUDS SHALL BE SEATED SQUARELY AGAINST TOP AND BOTTOM RUNNERS.
 - TEMPORARY BRACING SHALL BE PROVIDED AND SHALL REMAIN IN PLACE UNTIL WORK IS PERMANENTLY STABILIZED.
 - CUTTING OF STEEL FRAMING MEMBERS SHALL BE ACCOMPLISHED BY SAW OR SHEAR. TORCH-CUTTING OF LOAD BEARING MEMBERS IS NOT PERMITTED.
 - BRIDGING, DIAGONAL WIND-BRACING STRAPS AND HORIZONTAL STRAPS SHALL BE AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY CODES OR STANDARD PRACTICE.
- PRIOR TO FABRICATION OF FRAMING, THE CONTRACTOR SHALL SUBMIT FABRICATION AND ERECTION SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL INDICATE SIZE, GAGE AND LAYOUT OF ALL MEMBERS, MATERIALS AND COATINGS TO BE USED; DETAILS OF ALL CONNECTIONS, INCLUDING FASTENERS SIZE AND LAYOUT; INSTALLATION OF ACCESSORIES; CRITICAL INSTALLATION PROCEDURES.
- ALL LIGHTWEIGHT STEEL STUD WALLS SHALL HAVE HORIZONTAL STIFFENERS, CONSISTING OF CONTINUOUS COLD ROLLED 16 GAGE STEEL CHANNELS, SPACED 4'-0" ON CENTER.
- ALL JOISTS SHALL HAVE WEB STIFFENERS AT EACH END, AND AT INTERMEDIATE SUPPORT POINTS AND POINTS OF CONCENTRATED LOADS.
- ALL BUILT-UP HEADERS AND BEAMS SHALL HAVE WEB STIFFENERS IN EACH PIECE AT EACH END, AND AT INTERMEDIATE SUPPORTS AND POINTS OF CONCENTRATED LOADS.
- ALIGN WEBS OF JOISTS WITH WEBS OF STUDS ABOVE AND BELOW.
- PROVIDE ADDITIONAL FLOOR JOISTS AT NON-BEARING WALLS ABOVE RUNNING PARALLEL WITH JOISTS.
- PROVIDE JOIST HANGERS AS RECOMMENDED BY LIGHTWEIGHT STEEL MANUFACTURER.

*Deflection ≤ L/600
as per notes 12/18/02 + 12/19/02*

STRUCTURAL DESIGN PARAMETERS

CODES & STANDARDS
THE ICC INTERNATIONAL CODE (2000)
ASCE 7-98 ASCE STANDARD MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
ACI 318-95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
NINTH EDITION MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN (AISC)

MATERIALS

CONCRETE (CAST-IN-PLACE):	
FOOTINGS AND WALLS	FC 3,000 PSI AT 28 DAYS
SLABS ON GRADE	FC 3,500 PSI AT 28 DAYS
CONCRETE MASONRY UNITS (CMU):	
REINFORCING:	ASTM C90
	ASTM A615 - GRADE 60
STRUCTURAL STEEL:	
OPEN WEB BAR JOISTS:	ASTM A36 (Fy=36 KSI)
STRUCTURAL TUBE STEEL:	PER STRUCTURAL JOIST INSTITUTE SPECIFICATIONS
	ASTM A513 - GRADE B (Fy=46 KSI)
STANDARD FRAMING LUMBER:	
PRESSURE TREATED DIMENSION LUMBER:	SPF NO. 2 OR BETTER, Fb=1000 PSI, E = 1,300,000 PSI
LAMINATED VENEER LUMBER (LVL):	Fb=2800 PSI, E = 1,800,000
COLD FORMED METAL FRAMING:	
	PER AISI 1986 EDITION FOR COLD FORMED STEEL STRUCTURAL MEMBERS

FOUNDATION DESIGN

SOIL BEARING CAPACITY 2000 PSF (ASSUMED)

GRAVITY DESIGN LOADS

ROOF DESIGN SNOW LOAD PER 7.3 OF ASCE 7-98	SNOW EXPOSURE FACTOR (CE): 1.0	TABLE 7-2
REFERENCE ELEVATION 525 FEET	IMPORTANCE FACTOR (I): 1.0	TABLE 7-4
	THERMAL FACTOR (CT): 1.0	TABLE 7-3
	GROUND SNOW LOAD (PG): 75 PSF	VALUE ESTABLISHED FOR NH
	ROOF SNOW LOAD: 52 PSF (75 PSF X 0.7 = 52)	
	ROOF DEAD LOAD: 20 PSF (INCLUDE COLLATERAL LOADS)	
	DRIFT LOADS 100 PSF MINIMUM	PER ASCE 7-98

FLOOR DESIGN LOADS PER TABLE 4-1 OF ASCE 7-98

LOWER LEVEL:	CONCRETE SLAB AT GRADE 150 PSF+
UPPER LEVEL:	LIVE LOAD = 150PSI
	DEAD LOAD = 80PSI

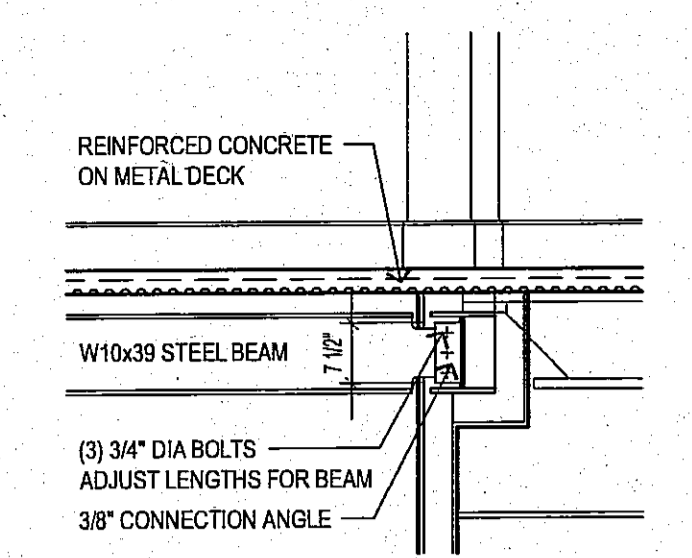
LATERAL DESIGN LOADS

WIND PER CHAPTER 6 OF ASCE 7-98

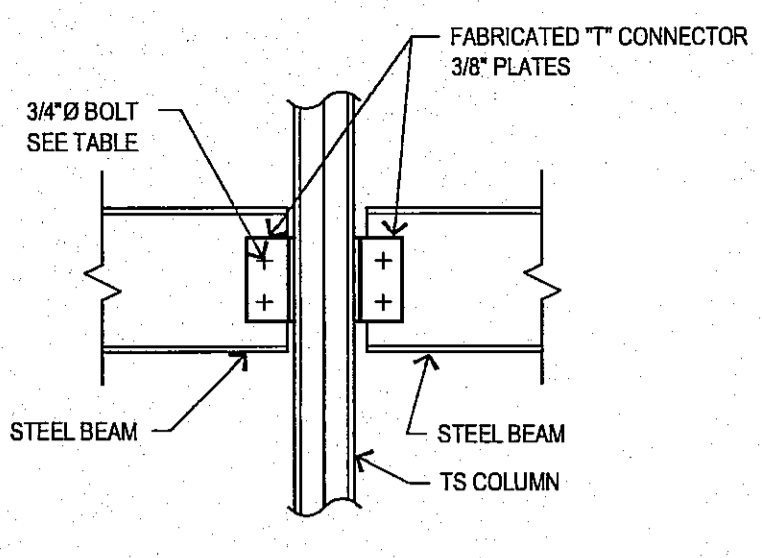
BASIC WIND SPEED: 90 MPH = 20 PSF
WIND LOAD IMPORTANCE FACTOR: 1.0
WIND EXPOSURE B

EARTHQUAKE PER CHAPTER 16 OF IBC 2000

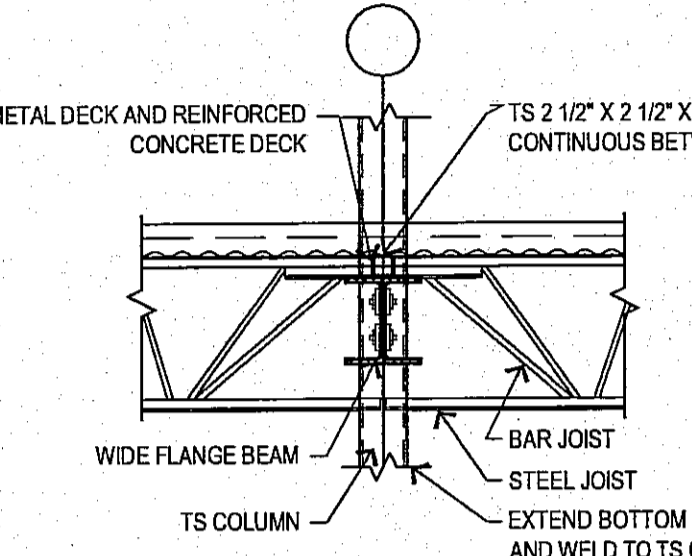
1 SEISMIC USE GROUP: TABLE 1604.5
1.0 SEISMIC IMPORTANCE FACTOR (I_e)
B SITE CLASS: TABLE 1615.1.1
0.2 SPECTRAL RESPONSE COEFFICIENT (S_d)
0.1 SEISMIC DESIGN CATEGORY
BASIC SEISMIC-FORCE-RESISTING SYSTEM: ORDINARY MOMENT FRAMES OF STEEL
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE PER SECTION 1617.4



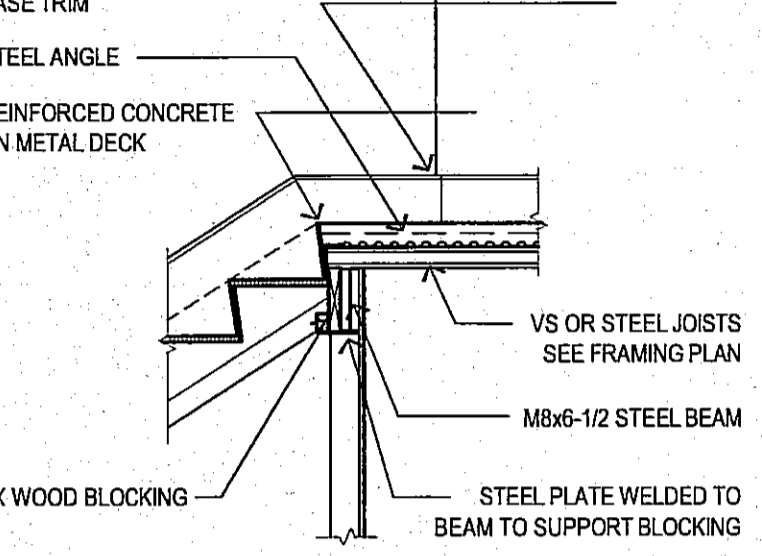
1 TYPICAL BEAM TO BEAM DETAIL
1/2" = 1'-0"



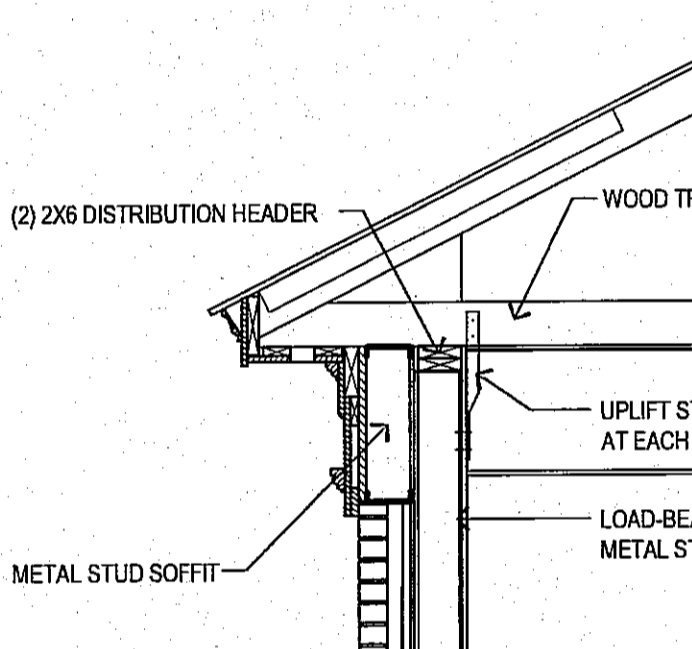
2 TYPICAL BEAM TO COLUMN DETAIL
1" = 1'-0"



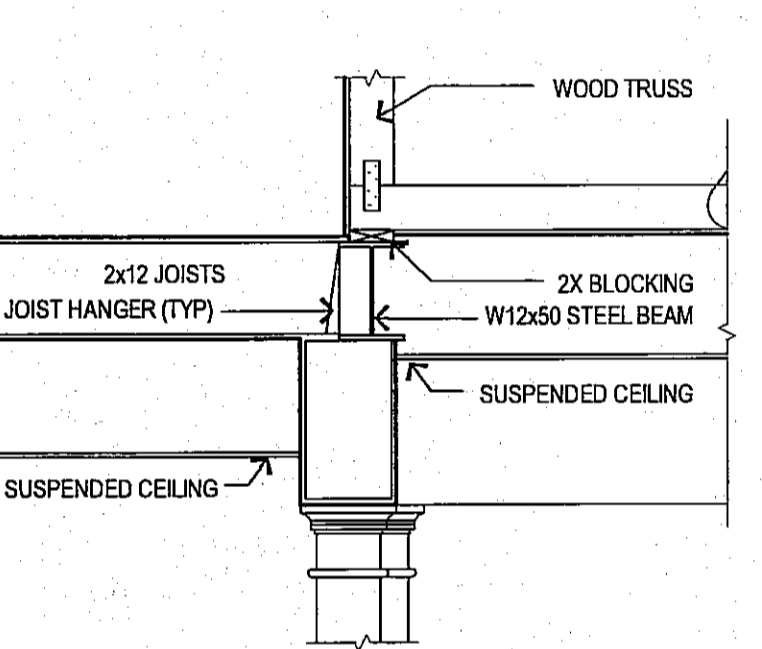
3 TYPICAL BEAM TO COLUMN/ STEEL JOIST DETAIL
3/4" = 1'-0"



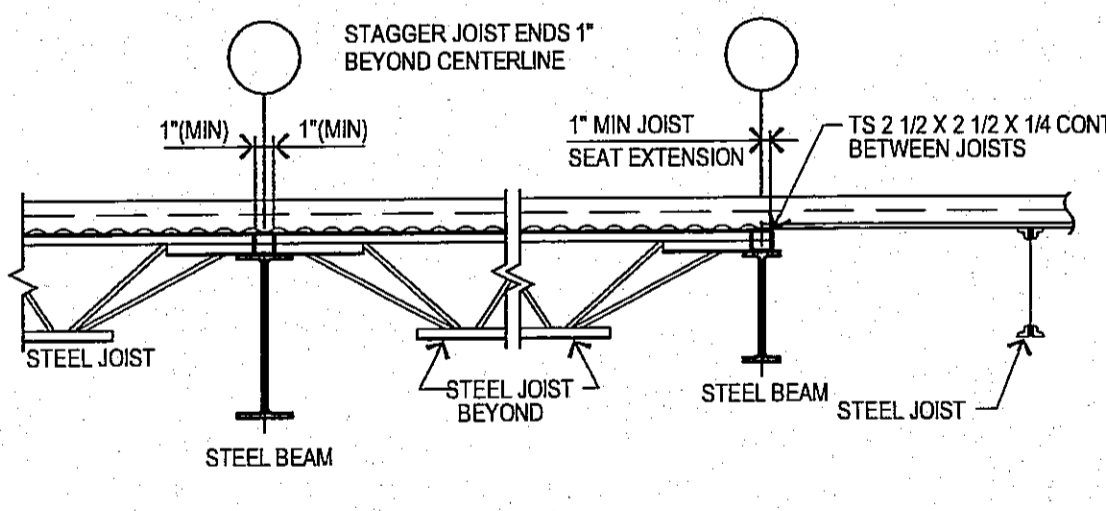
4 TYPICAL BEAM TO STAIRS DETAIL
1/2" = 1'-0"



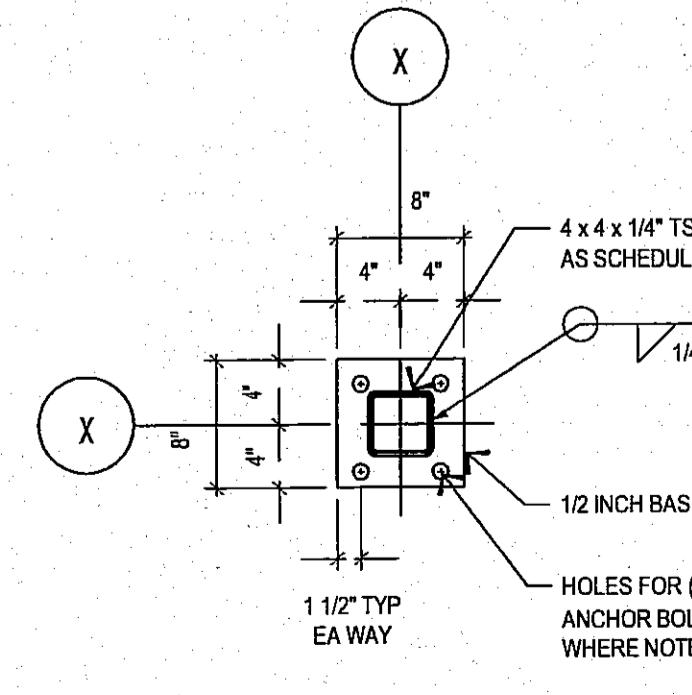
5 TYPICAL STUD TO TRUSS DETAIL
1/2" = 1'-0"



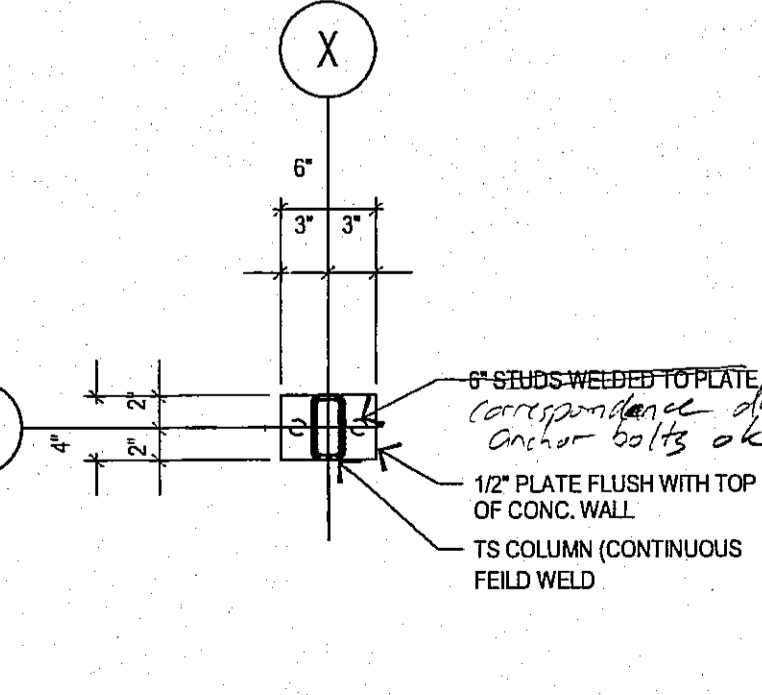
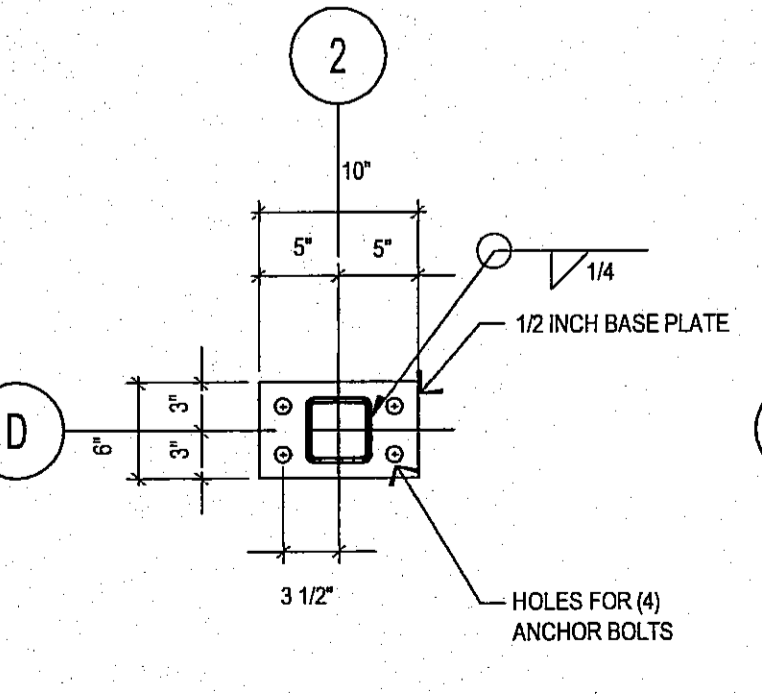
6 TYPICAL BEAM TO JOIST AND TRUSS DETAIL
1/2" = 1'-0"



7 TYPICAL BEAM TO COLUMN/ STEEL JOIST DETAIL
3/4" = 1'-0"



8 TYPICAL BASE PLATE DETAILS
1" = 1'-0"



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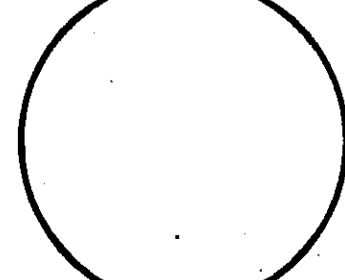
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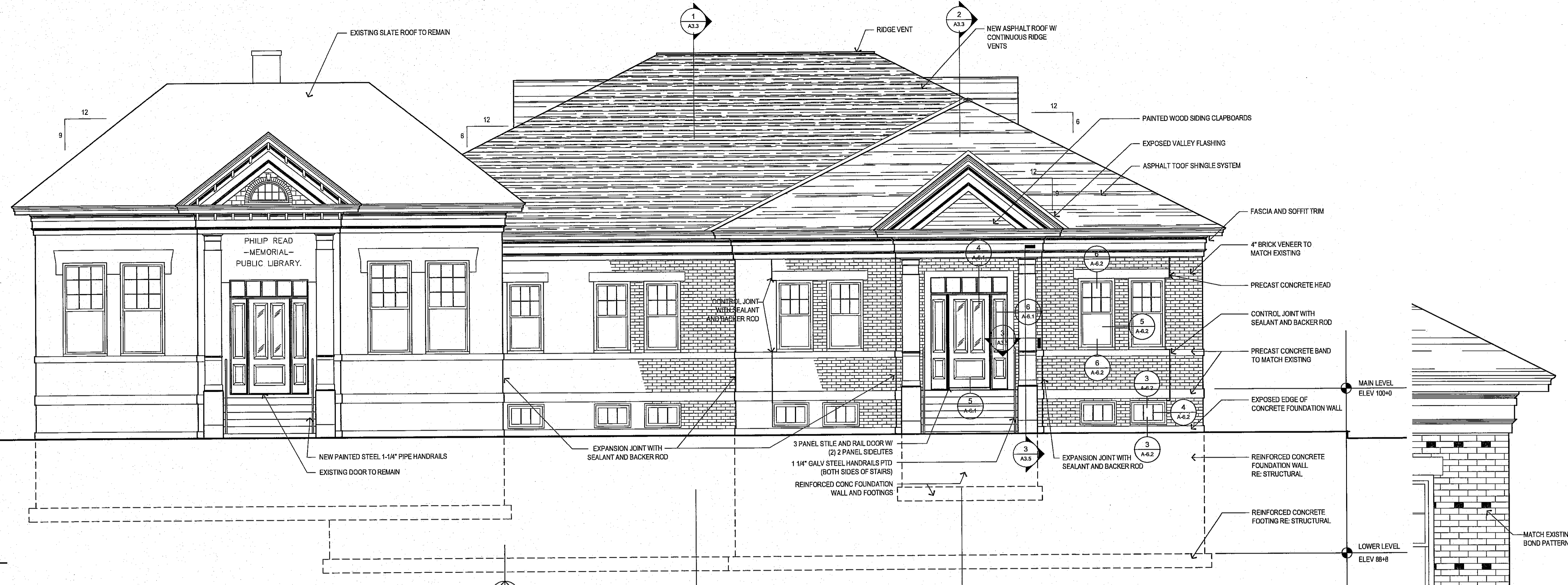
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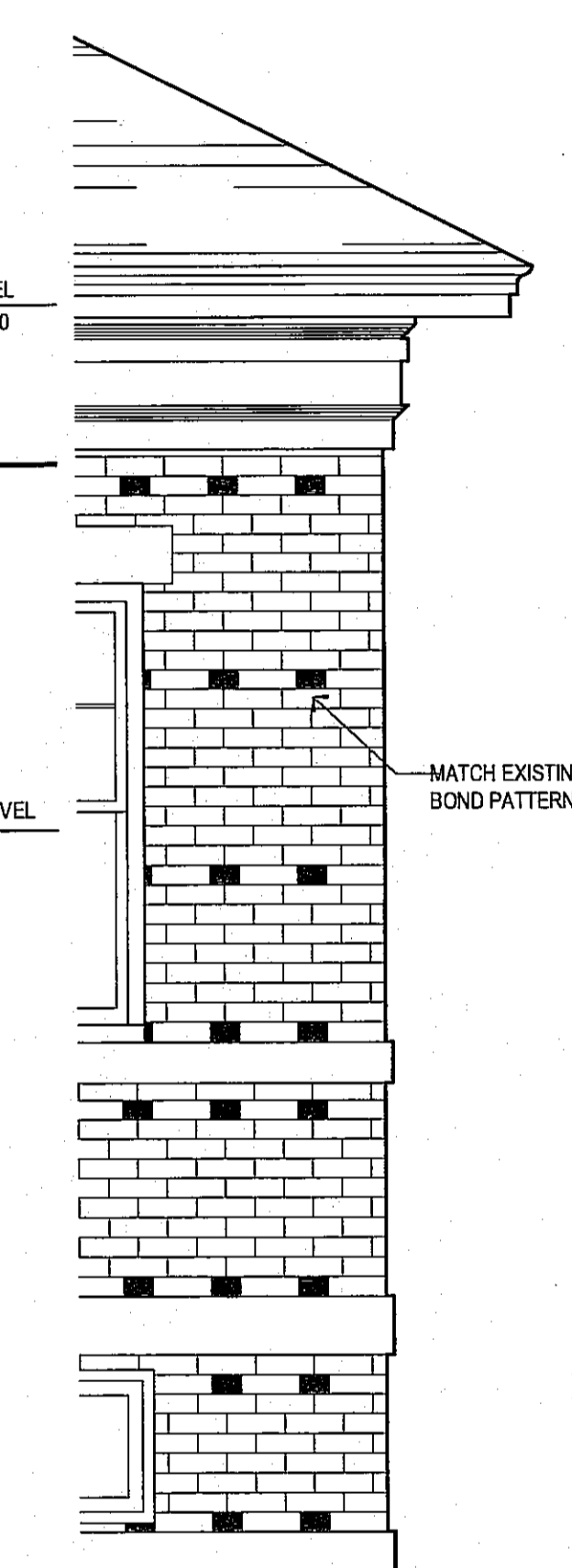
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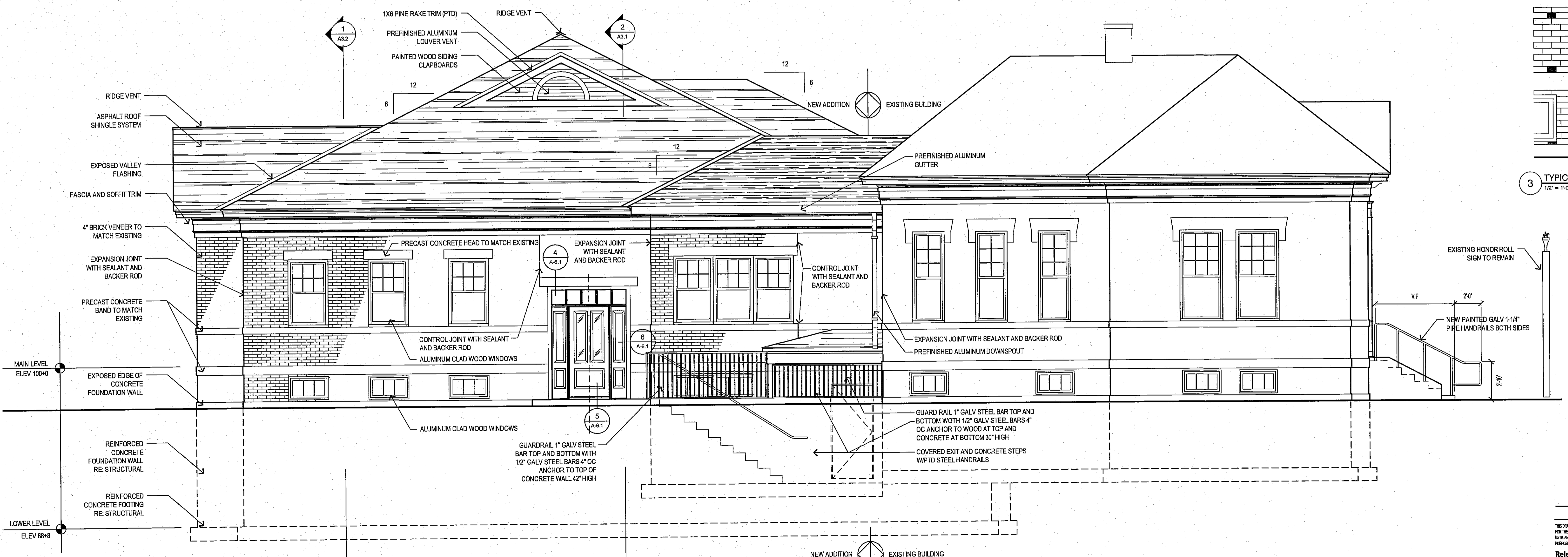
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1 EAST ELEVATION
1/4" = 1'-0"



3 TYPICAL BRICK BOND PATTERN
1/2" = 1'-0"



2 SOUTH ELEVATION
1/4" = 1'-0"

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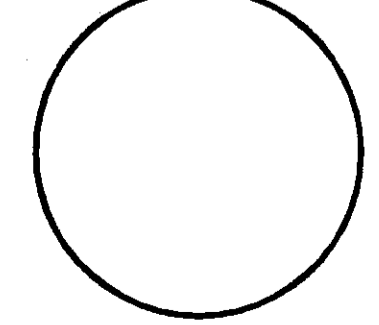
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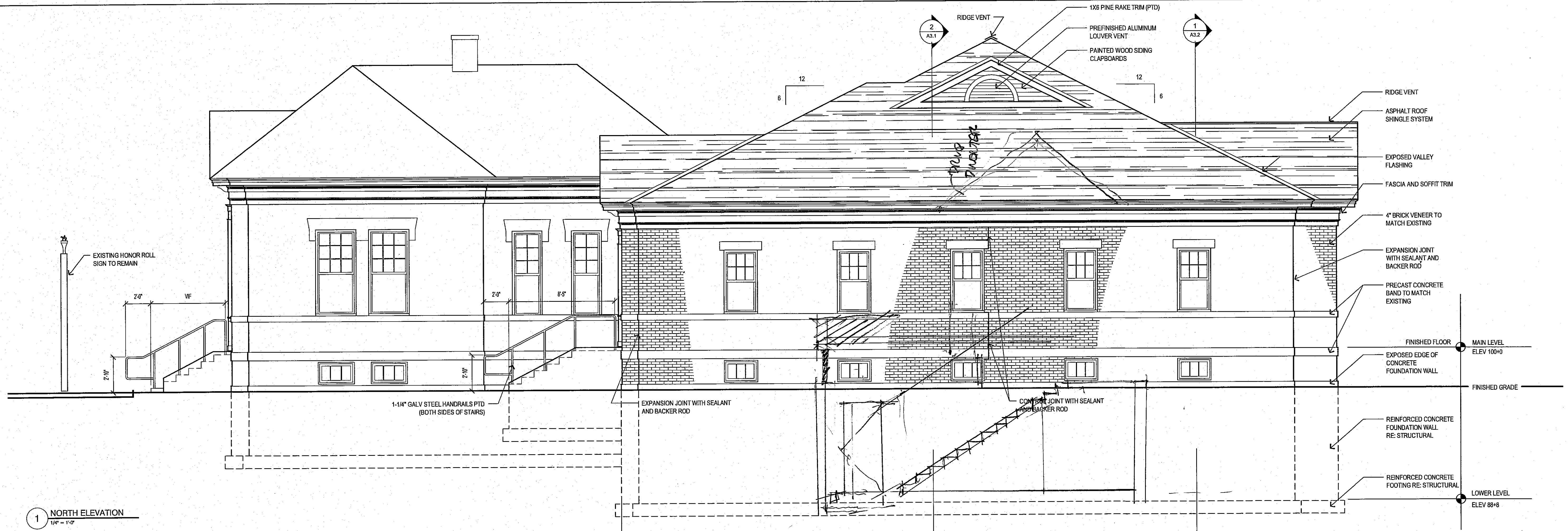
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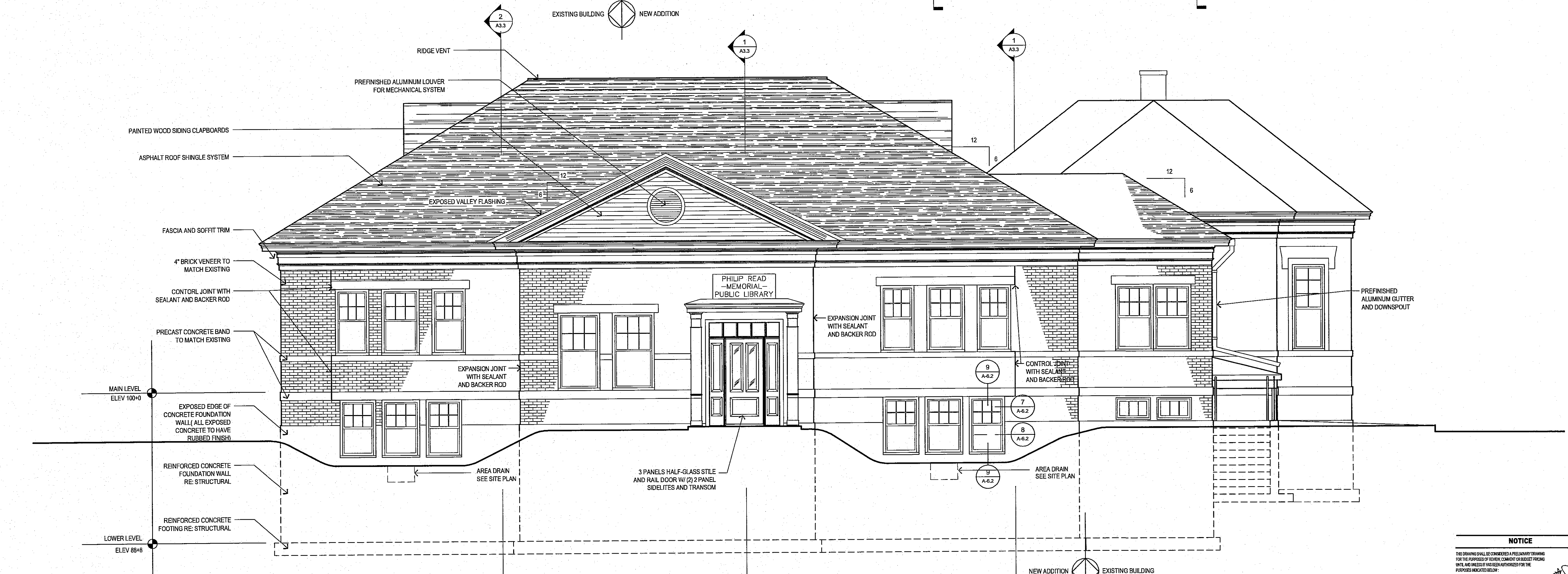
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EXTERIOR ELEVATIONS

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1 NORTH ELEVATION
1/4" = 1'-0"



2 WEST ELEVATION
1/4" = 1'-0"

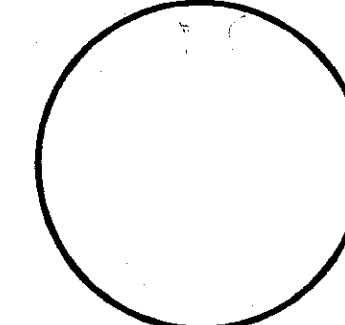
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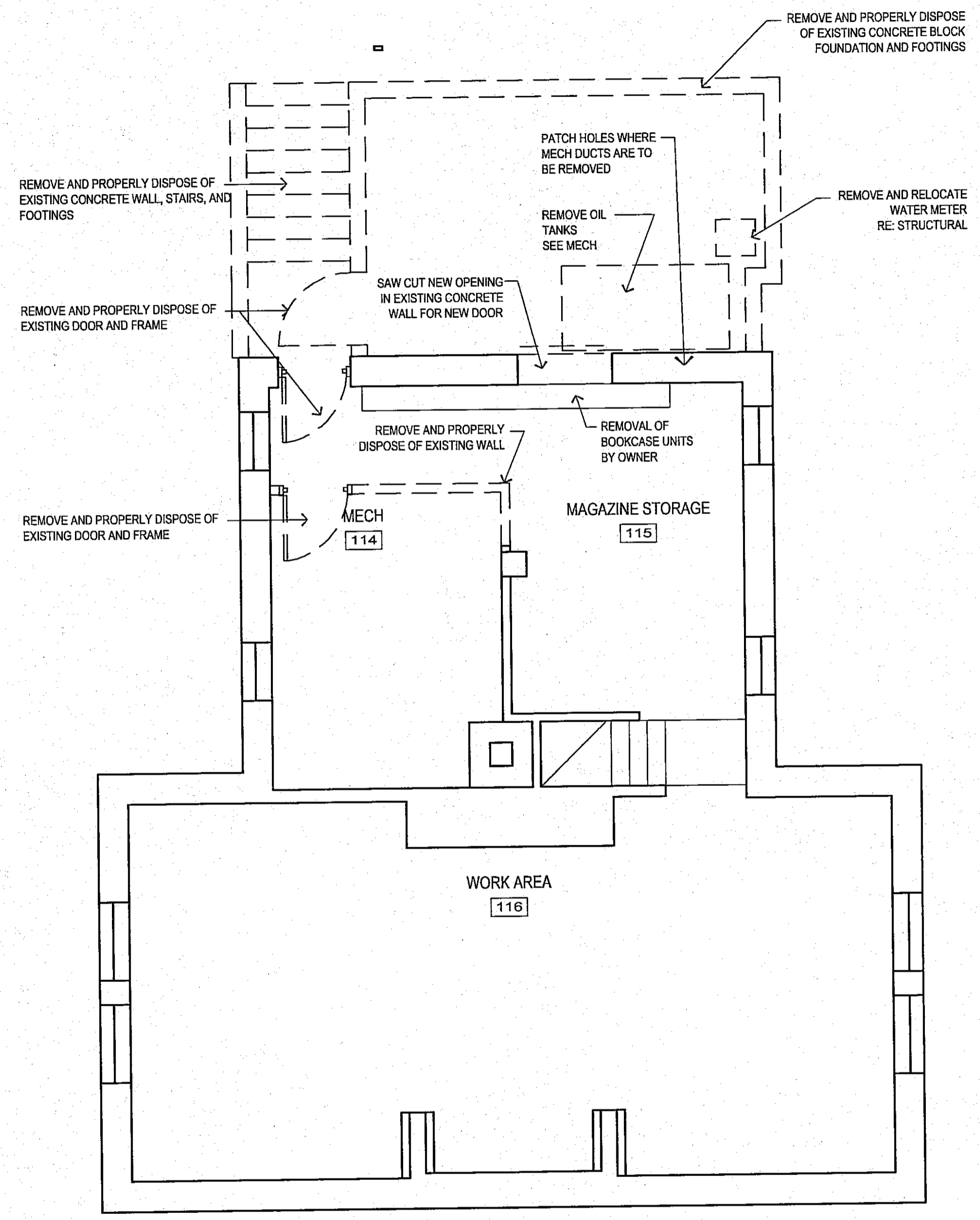
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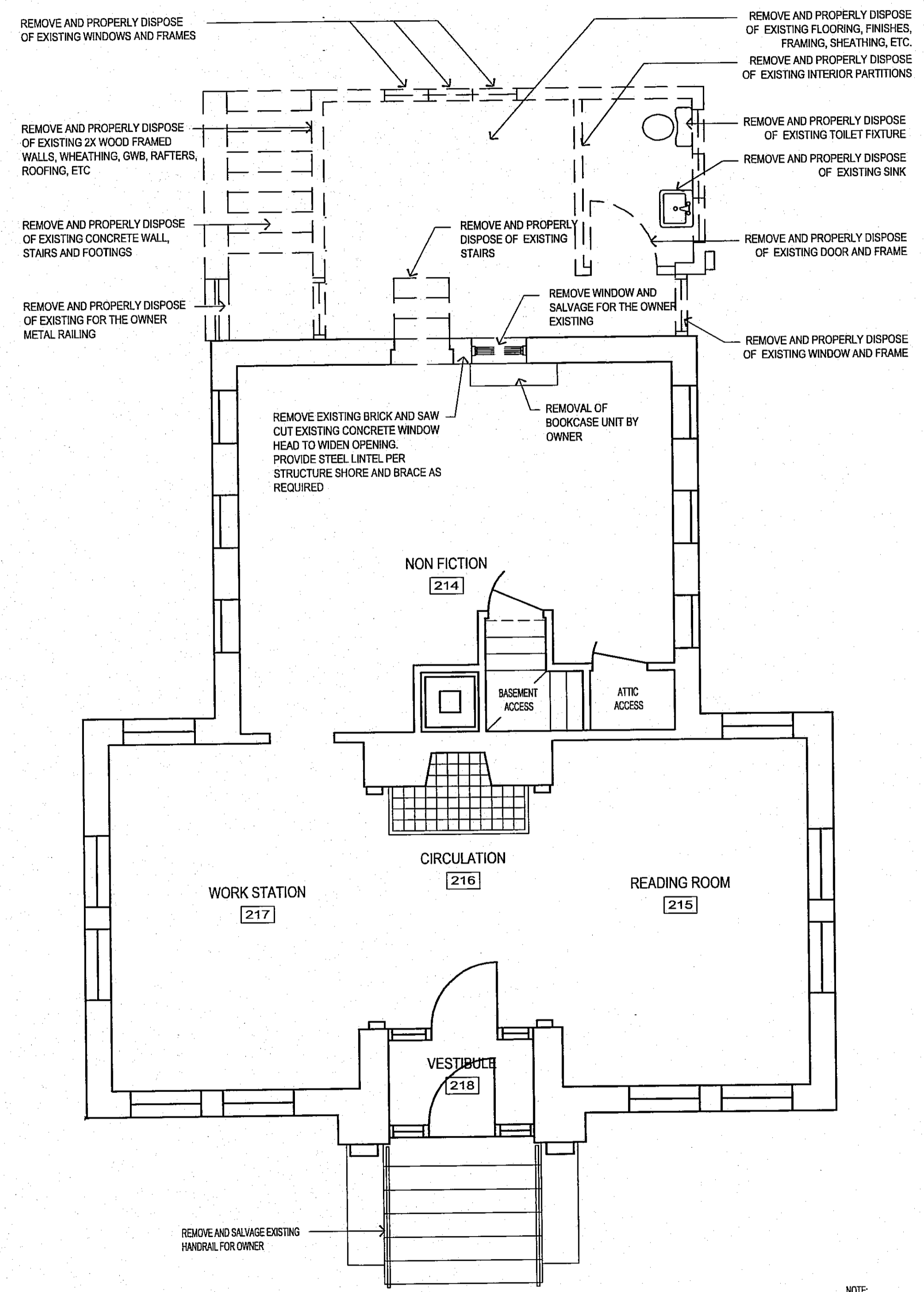


GENERAL NOTES

1. THE OWNER WILL CONTRACT TO COMPLETE ABATEMENT OF KNOWN ASPESTOS CONTAINING HAZARDOUS MATERIALS PRIOR TO DEMOLITION WORK. COORDINATE WITH HAZARDOUS WASTE ABATEMENT CONTRACTOR TO FACILITATE REMOVAL. A COPY OF THE HAZARDOUS WASTE MATERIAL REPORT WILL BE MADE AVAILABLE BY THE OWNER.



1 EXISTING LOWER LEVEL PLAN
1/4" = 1'-0"



1 EXISTING UPPER LEVEL PLAN
1/4" = 1'-0"

NOTE:
PERHAPS NEEDS A NOTE REGARDING HAZARDOUS MATERIALS? SEE CONSULTANT REPORT

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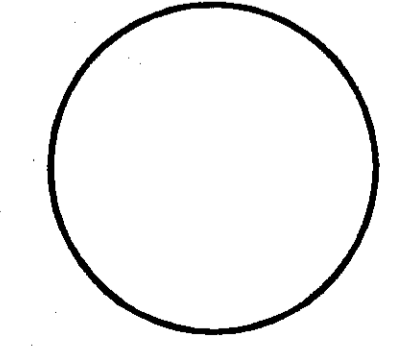
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LOWER LEVEL PLAN

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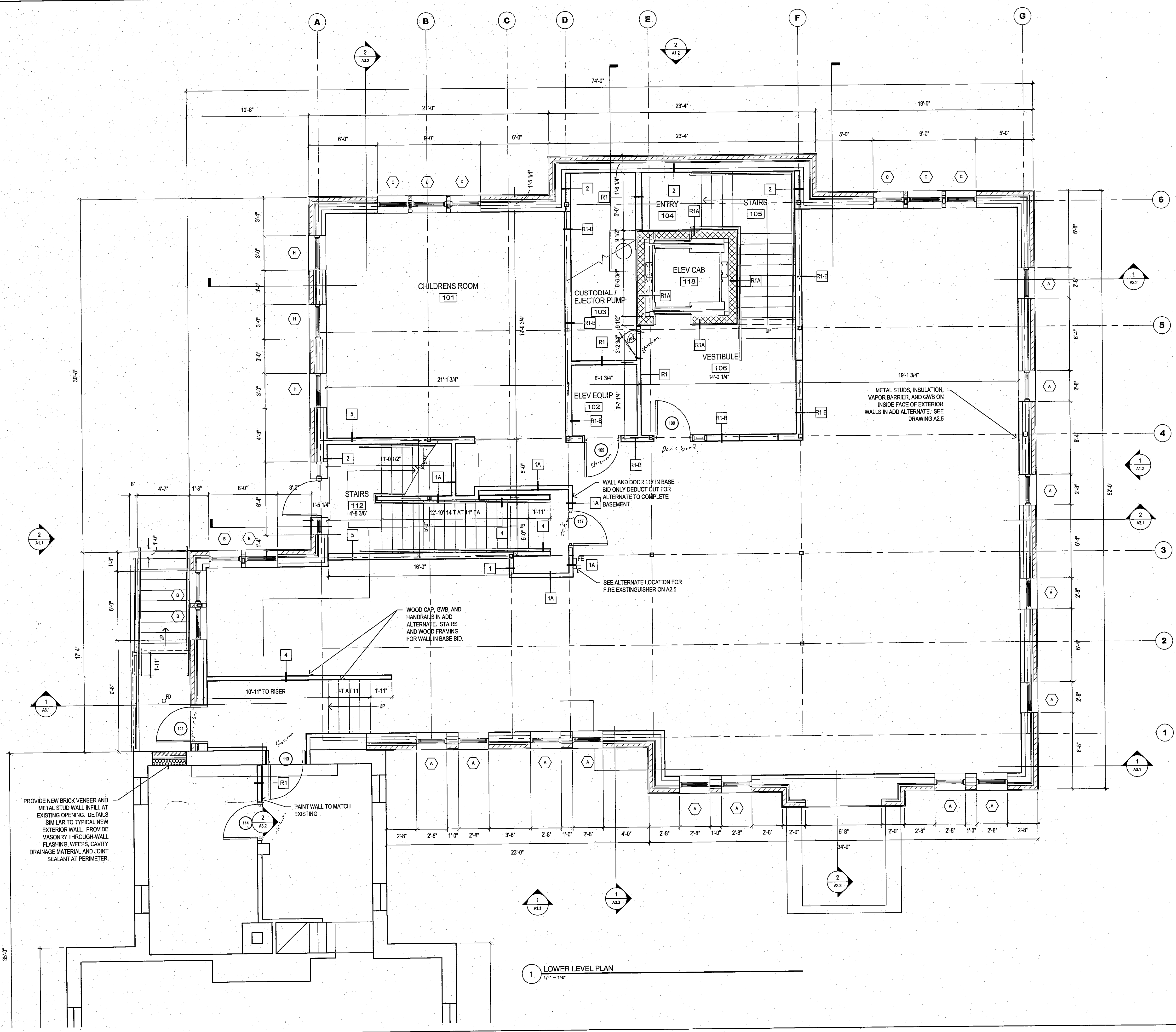
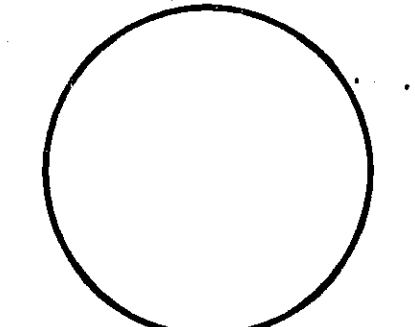
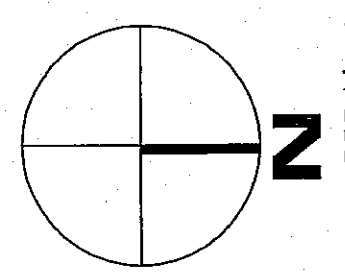
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1 LOWER LEVEL PLAN
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UPPER LEVEL PLAN

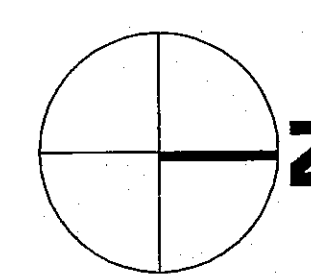
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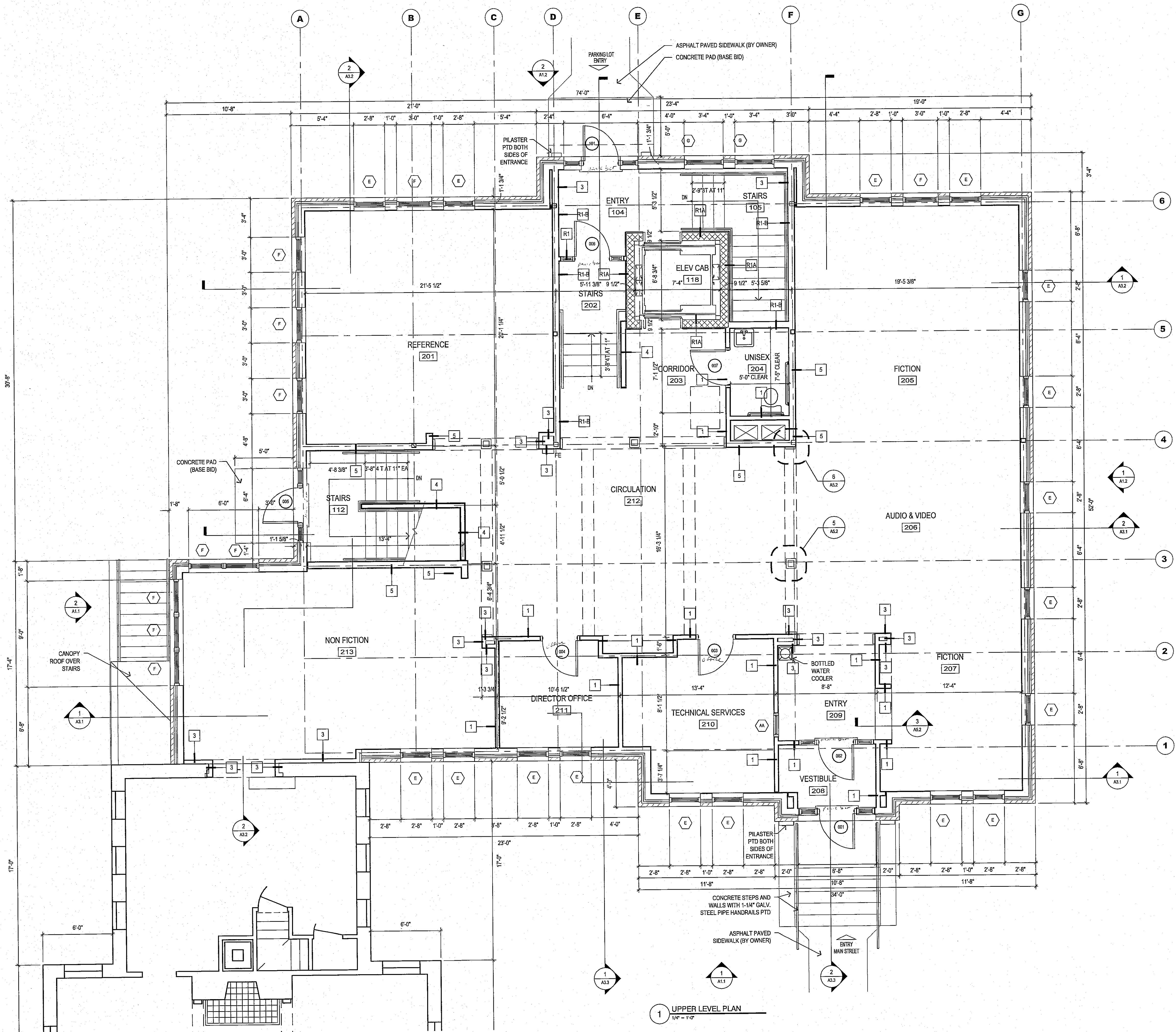
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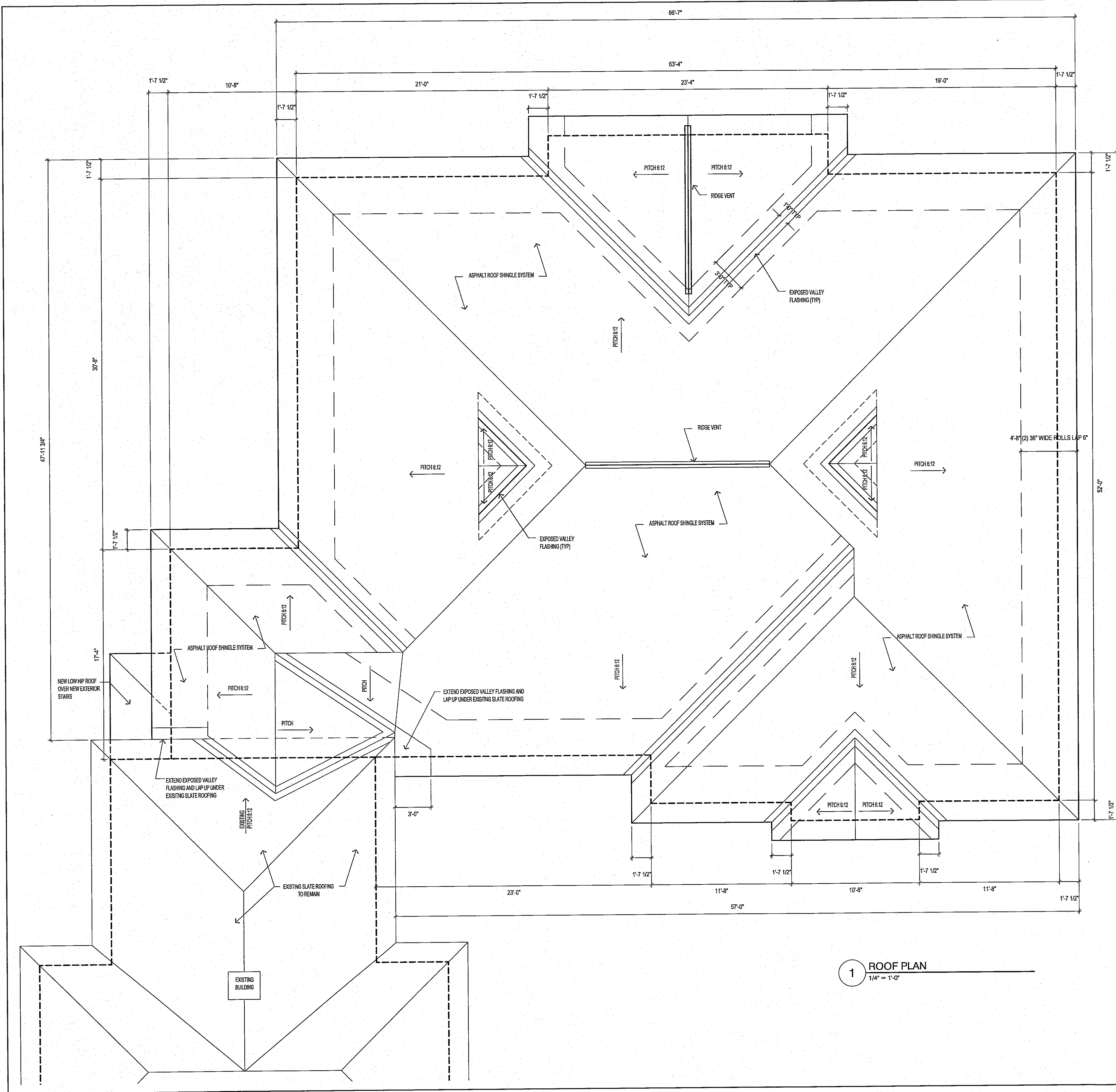
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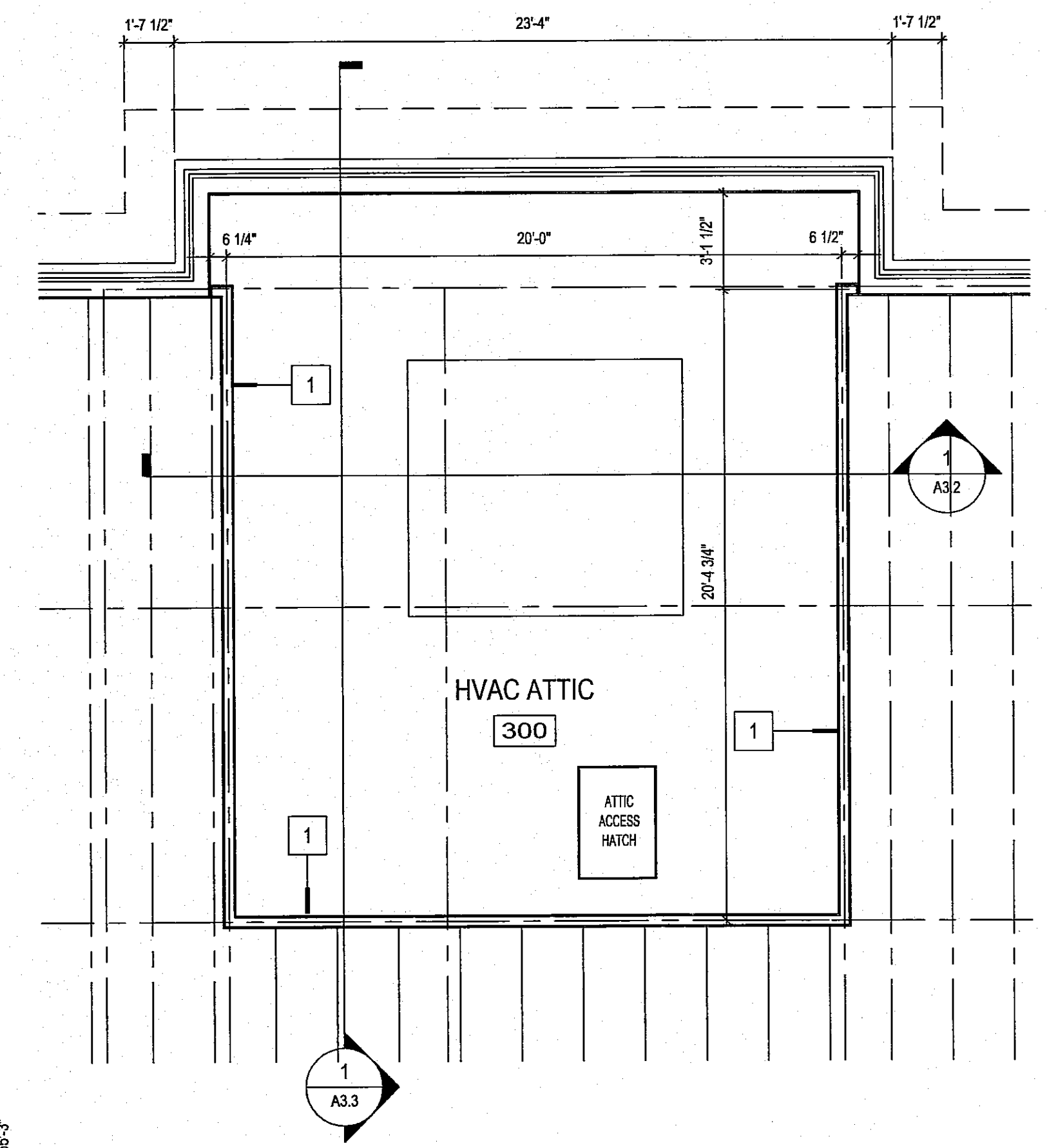


1 UPPER LEVEL PLAN
1/4" = 1'-0"

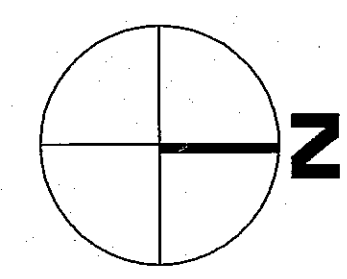




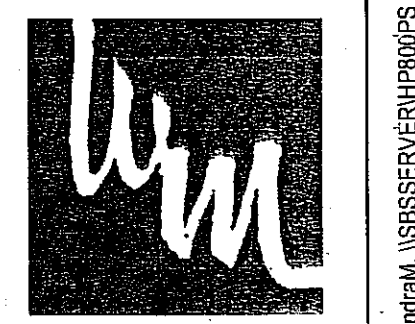
1 ROOF PLAN
1/4" = 1'-0"



2 HVAC ATTIC PLAN
1/4" = 1'-0"



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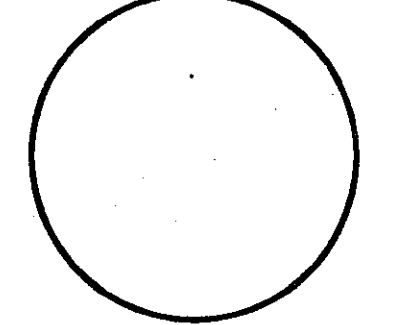
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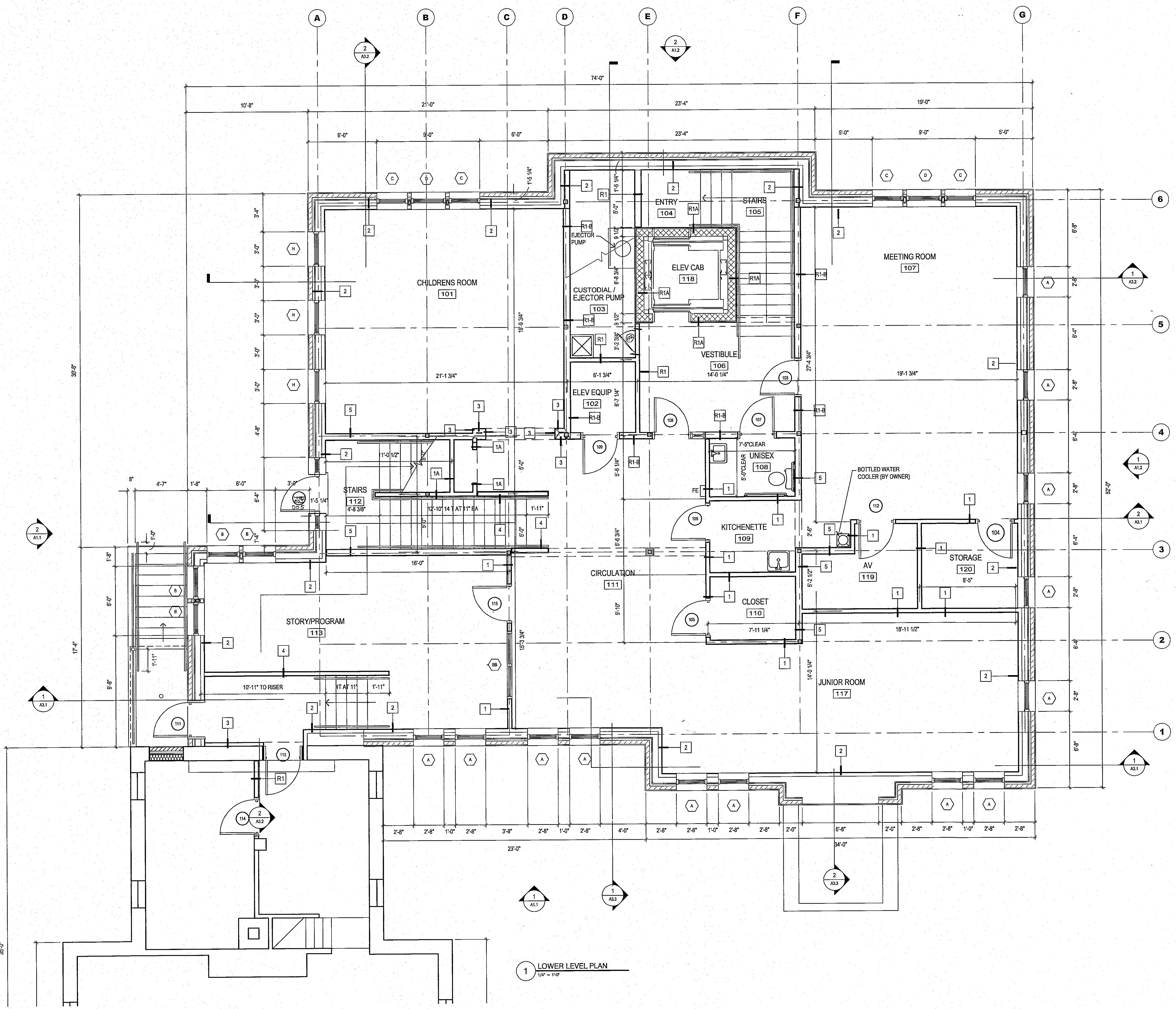
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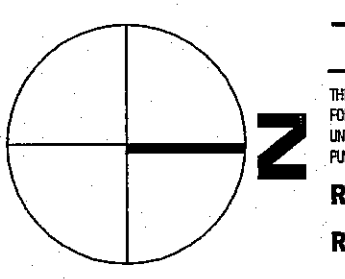
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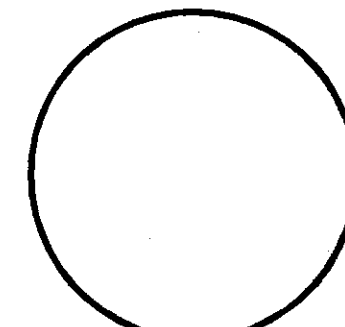
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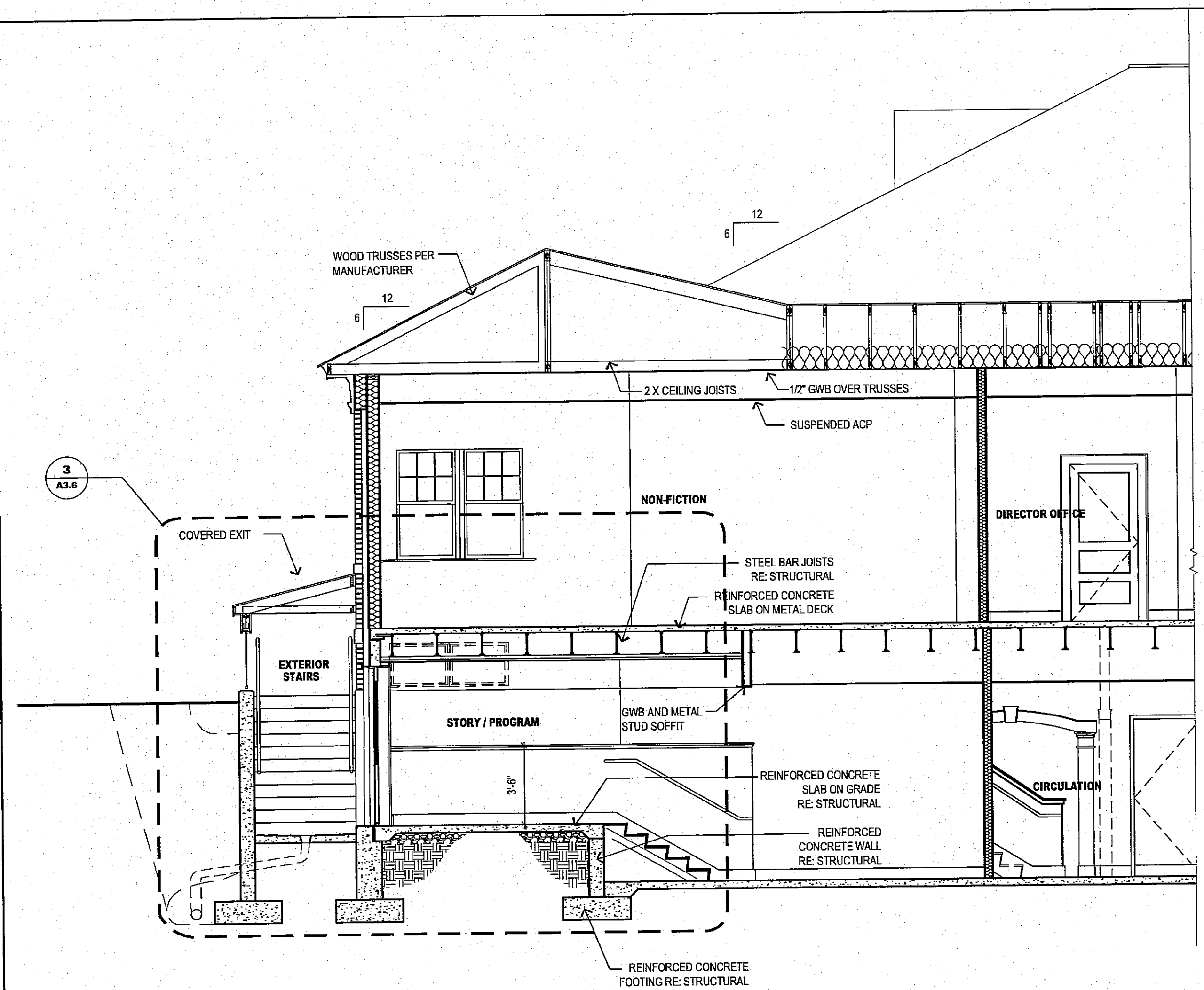


1 LOWER LEVEL PLAN
1/4" = 1'-0"

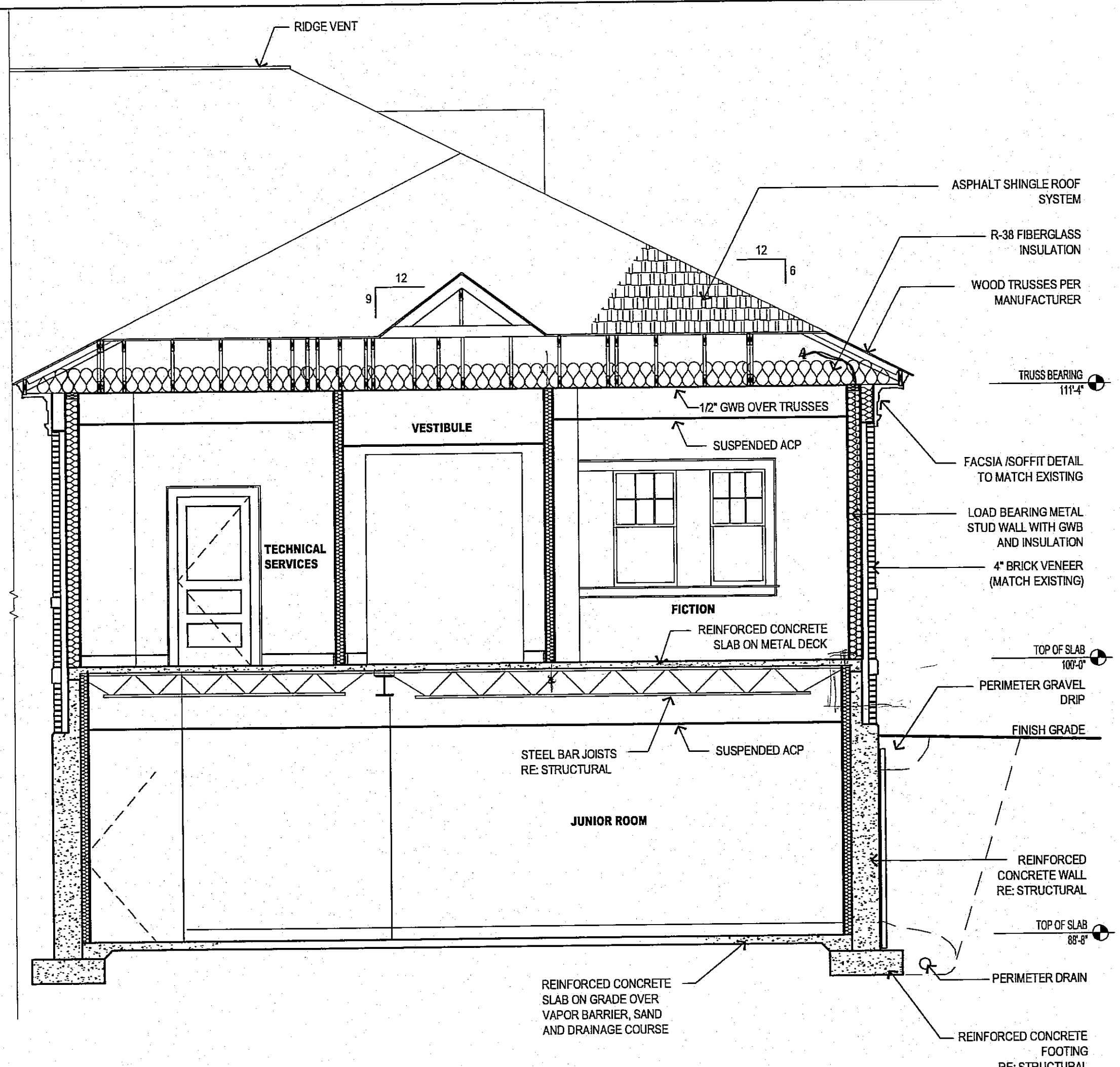


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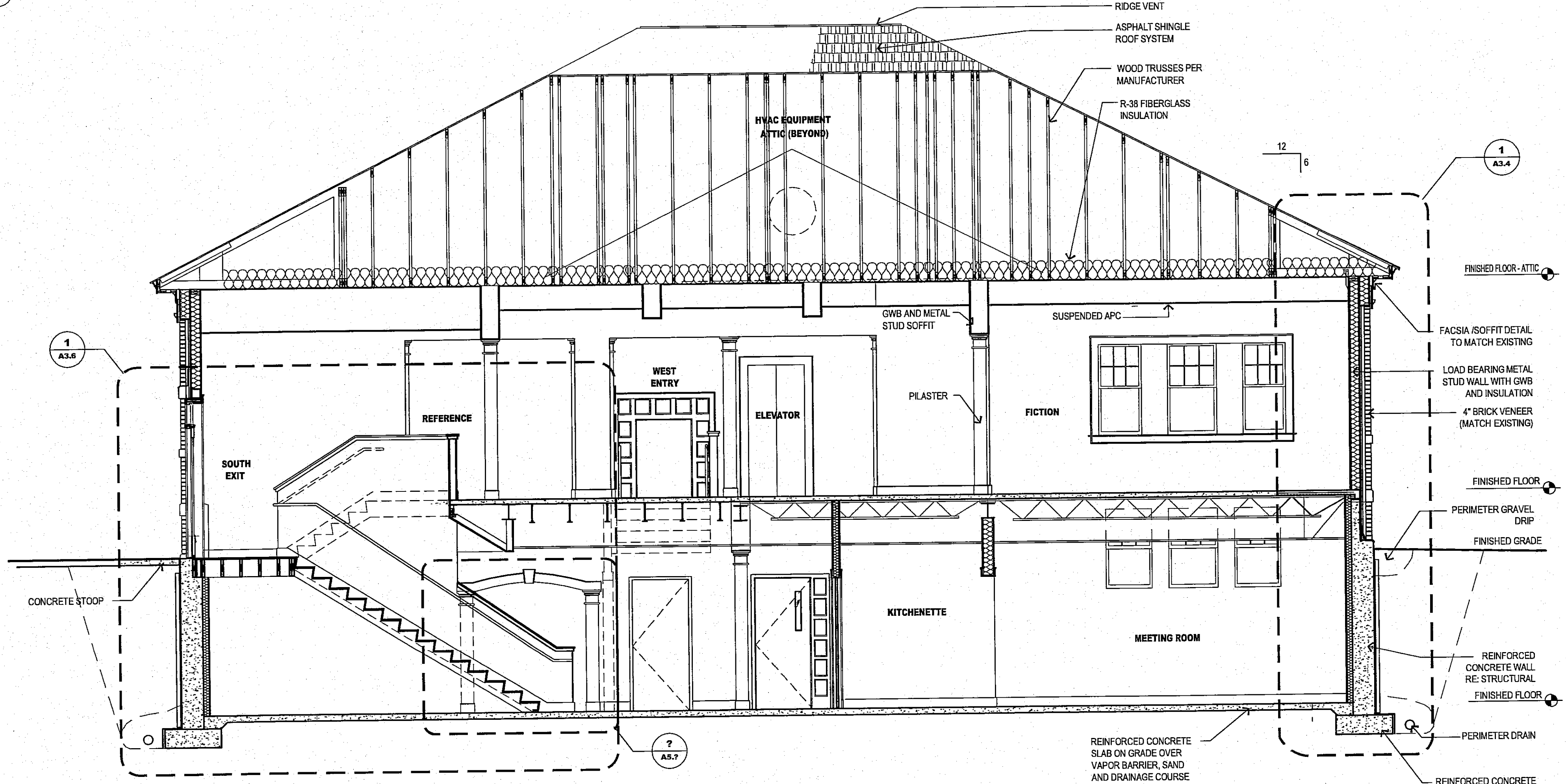




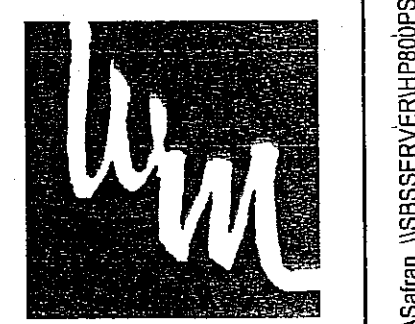
1 SOUTH/NORTH BUILDING SECTION
1/4" = 1'-0"



1 SOUTH/NORTH BUILDING SECTION
1/4" = 1'-0"



2 SOUTH/NORTH BUILDING SECTION
1/4" = 1'-0"



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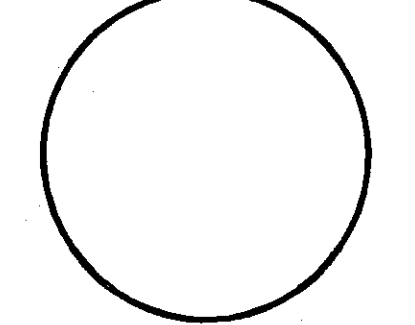
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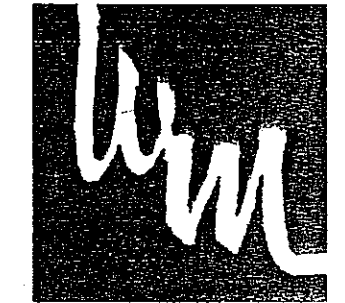
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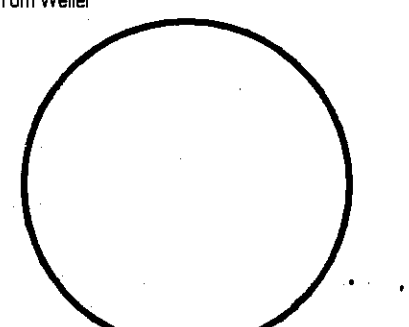
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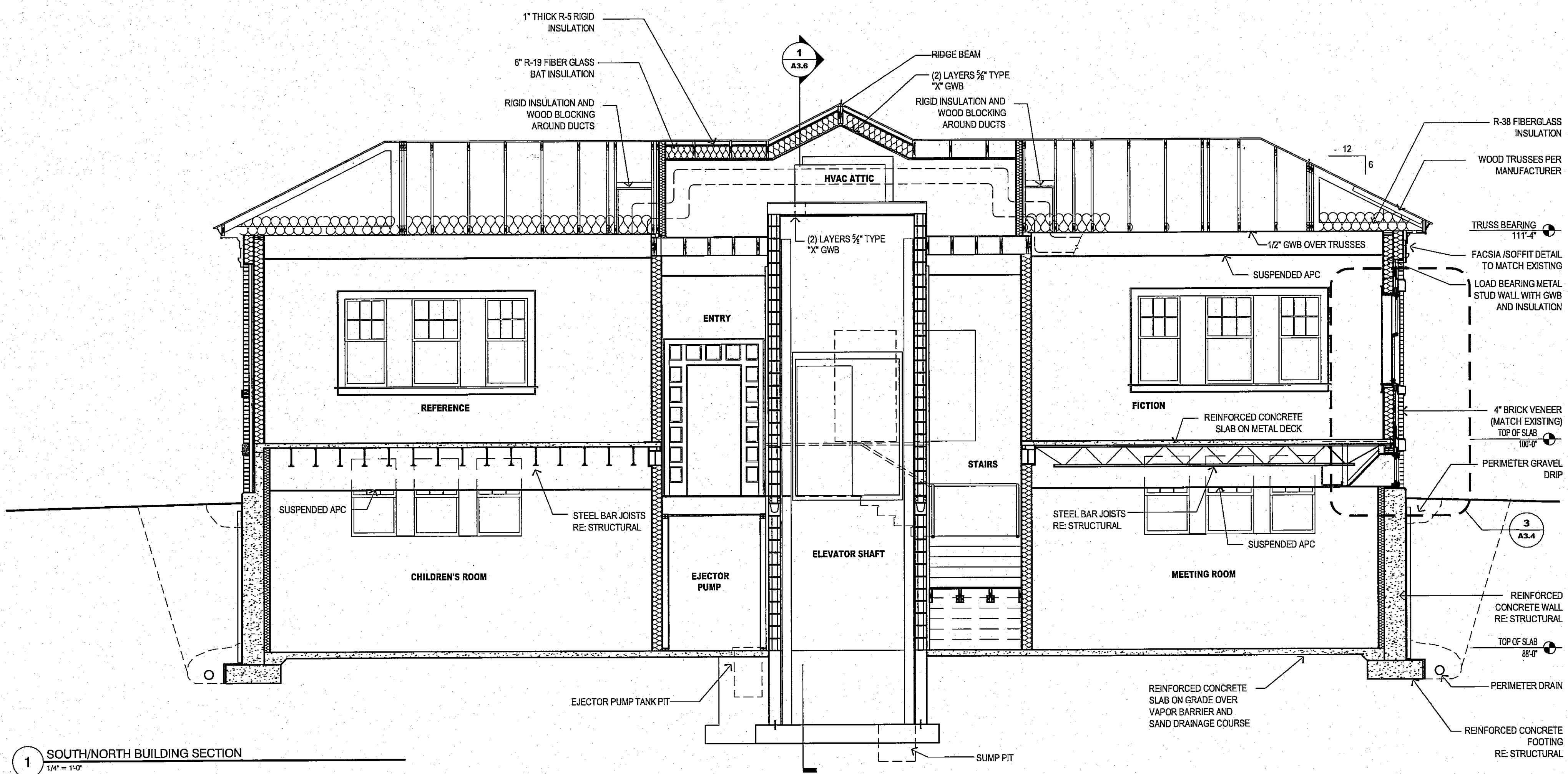
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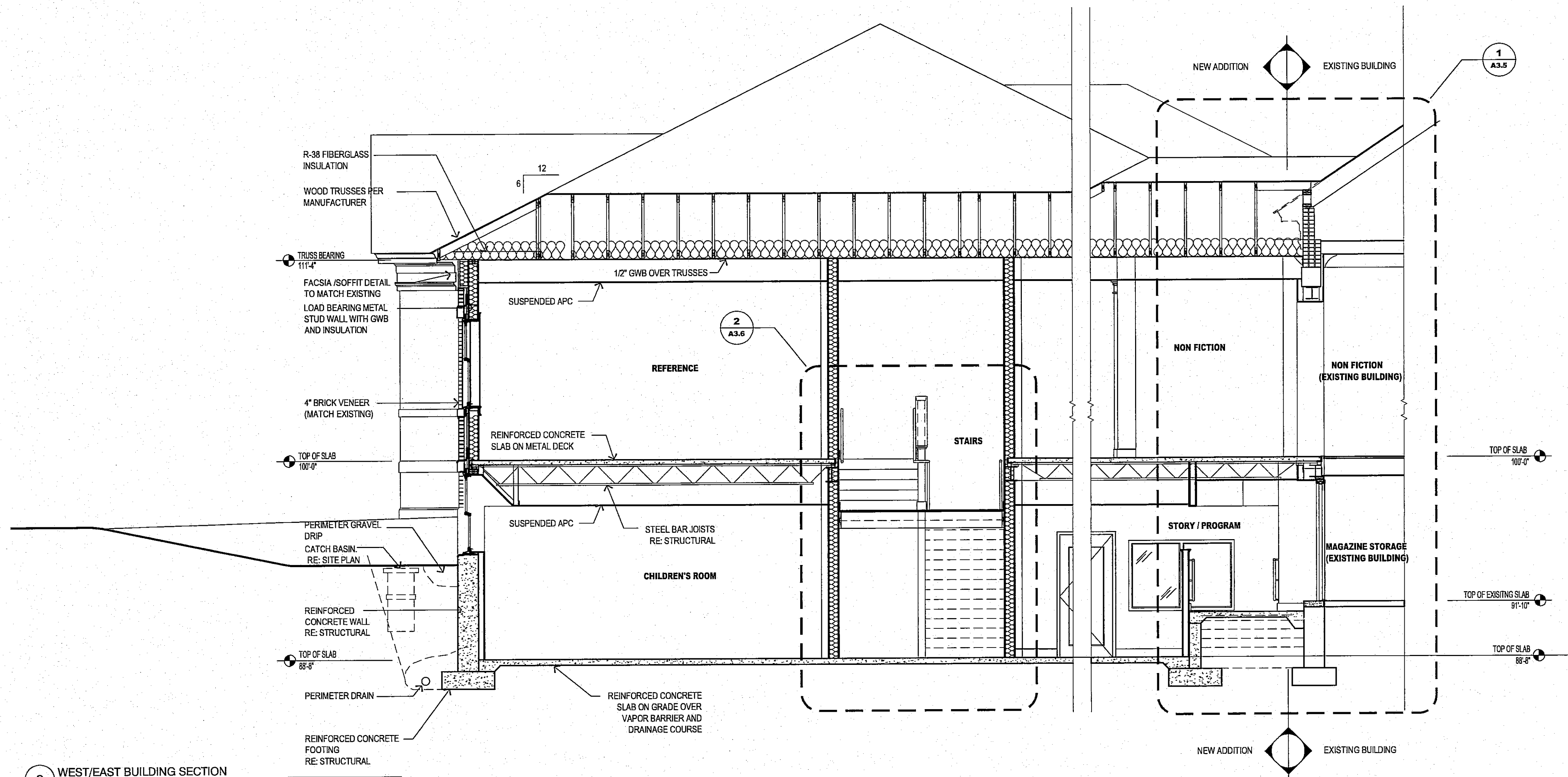
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2 WEST/EAST BUILDING SECTION
1/4" = 1'-0"



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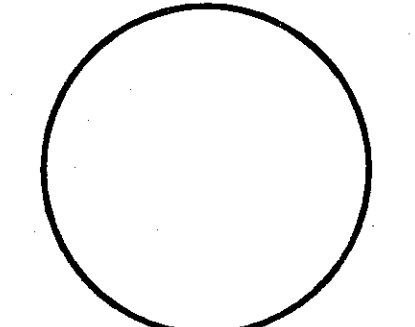
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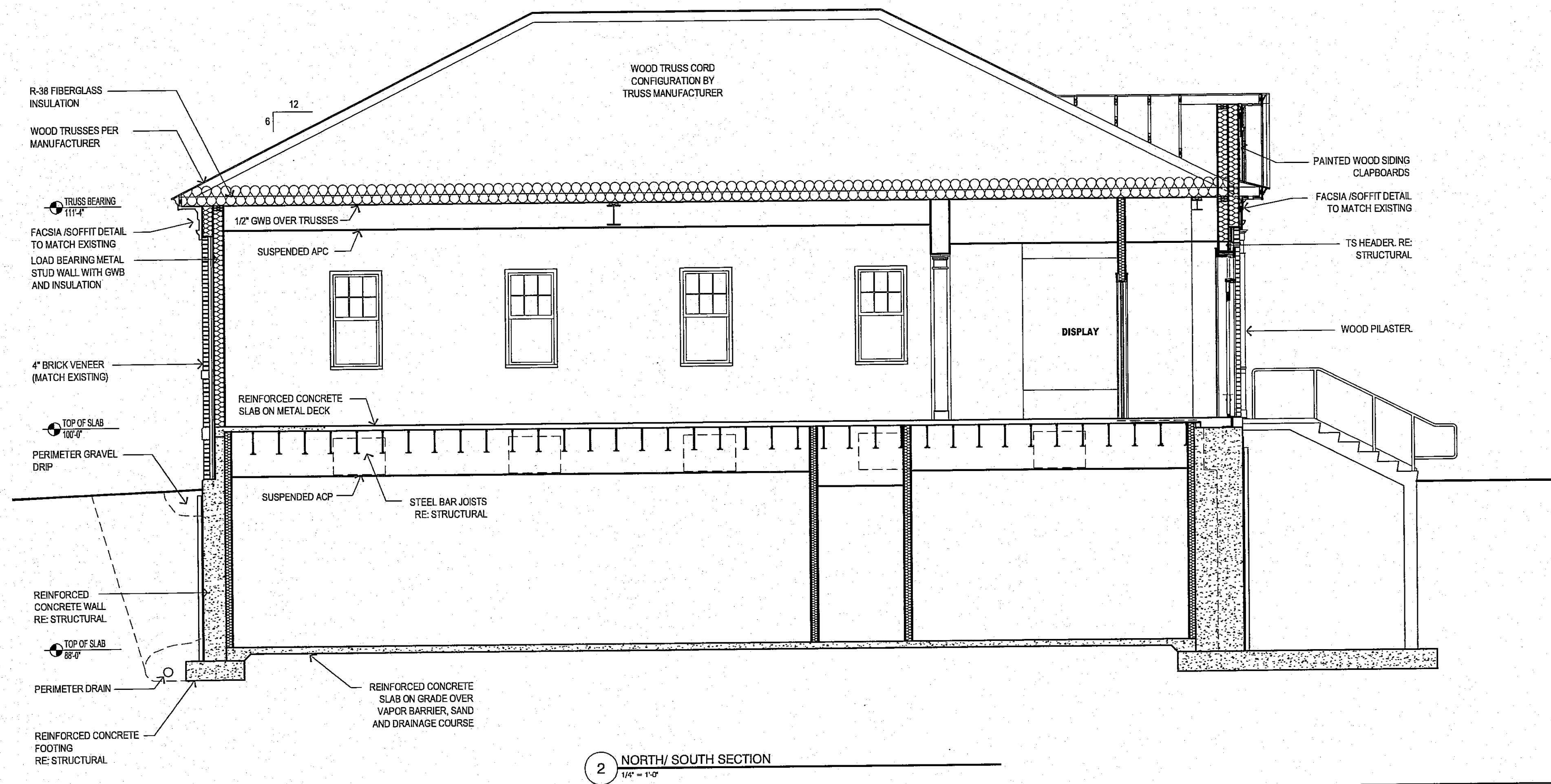
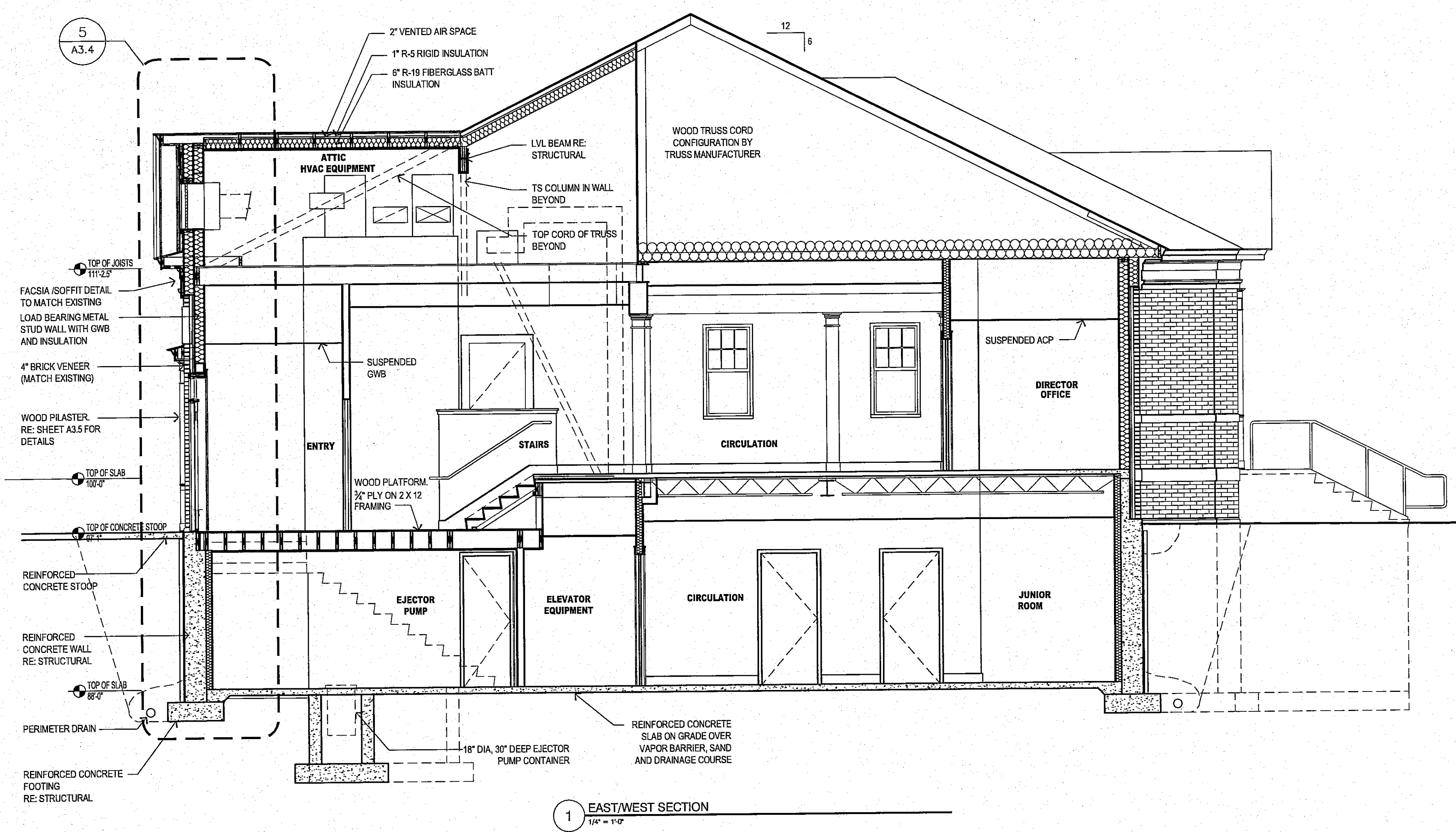
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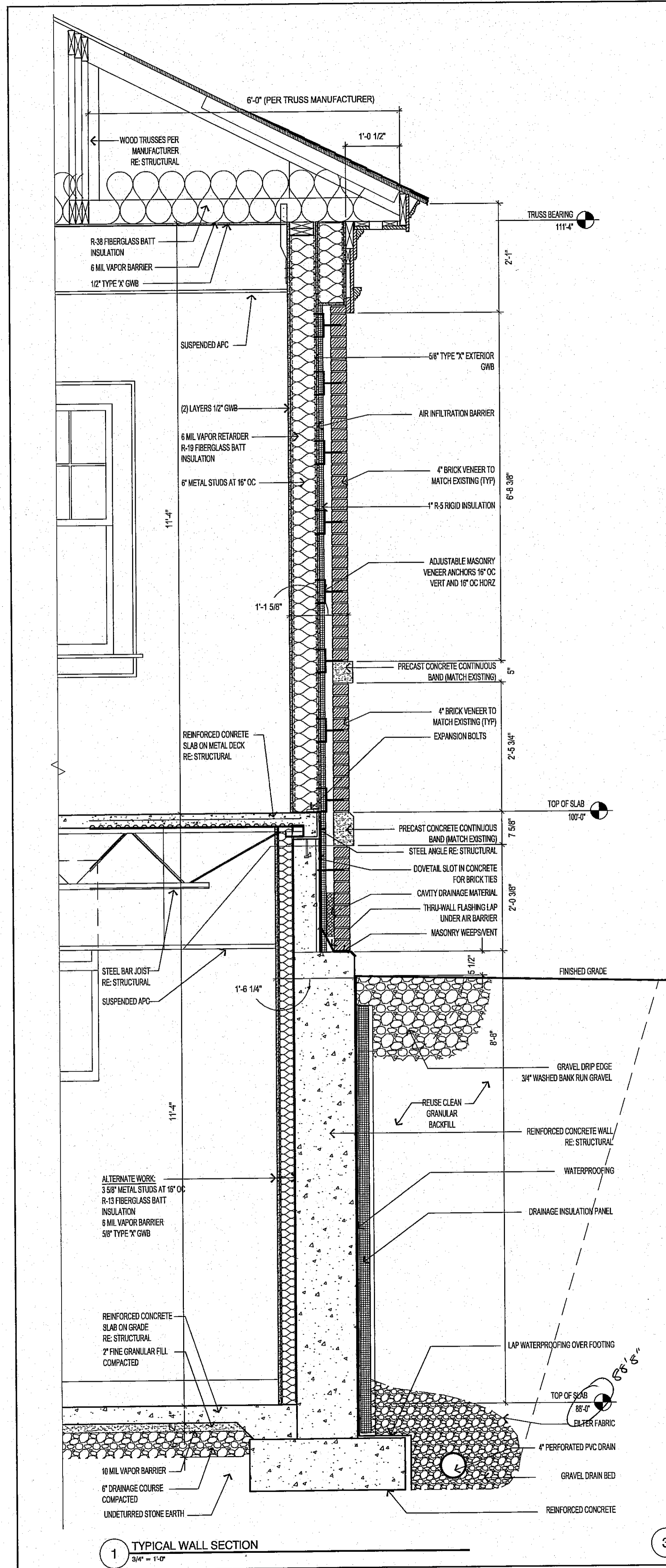
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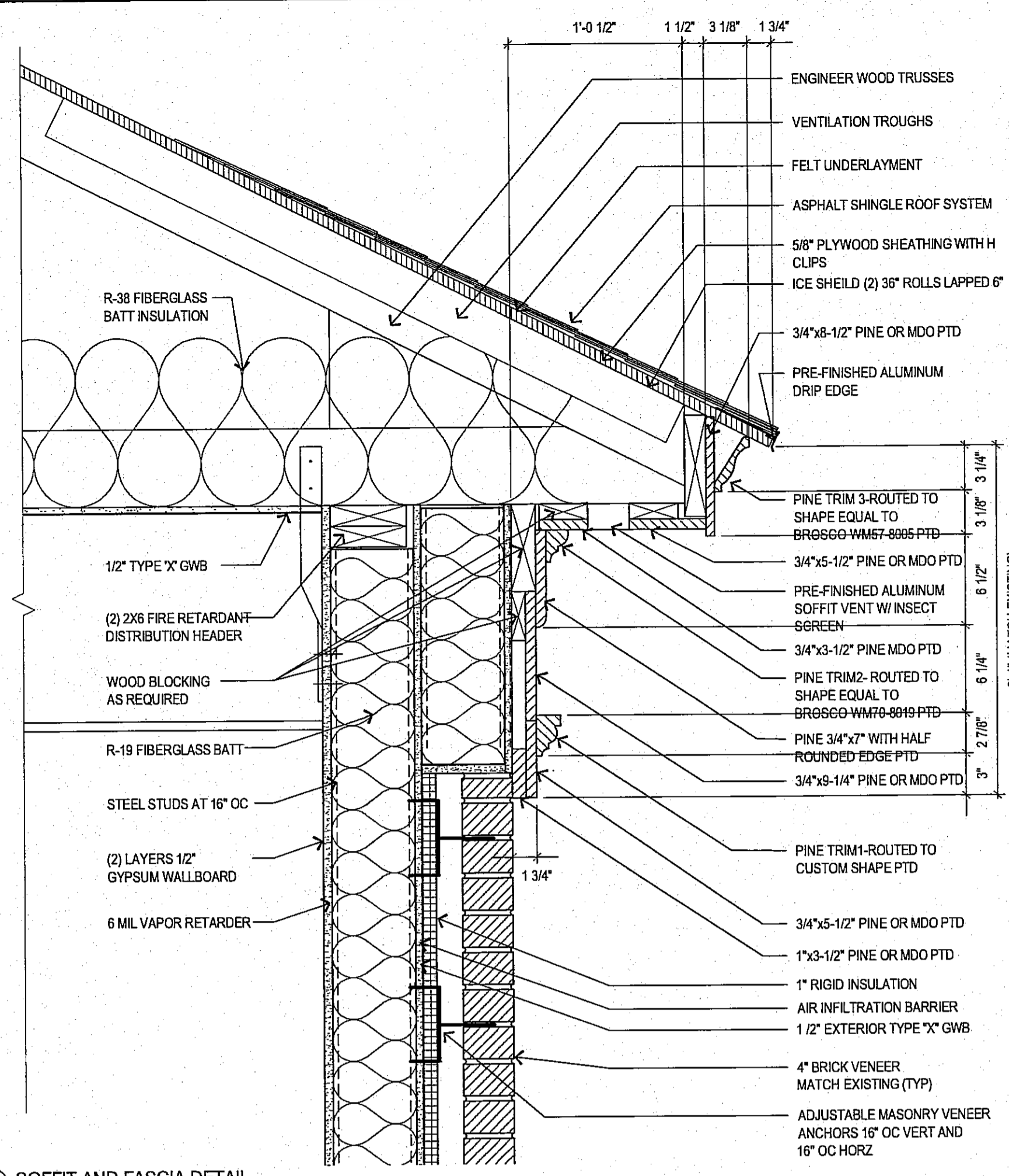


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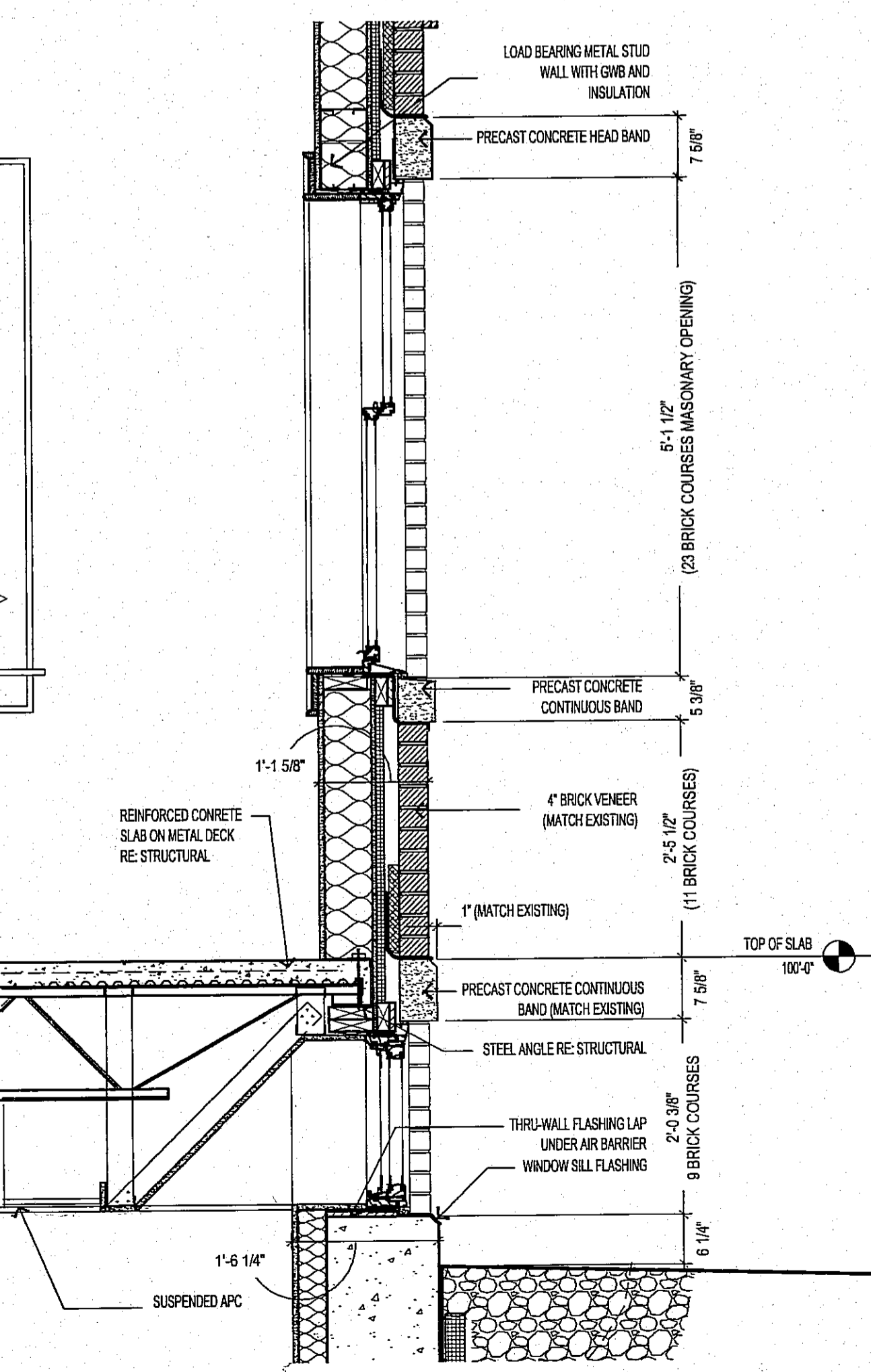




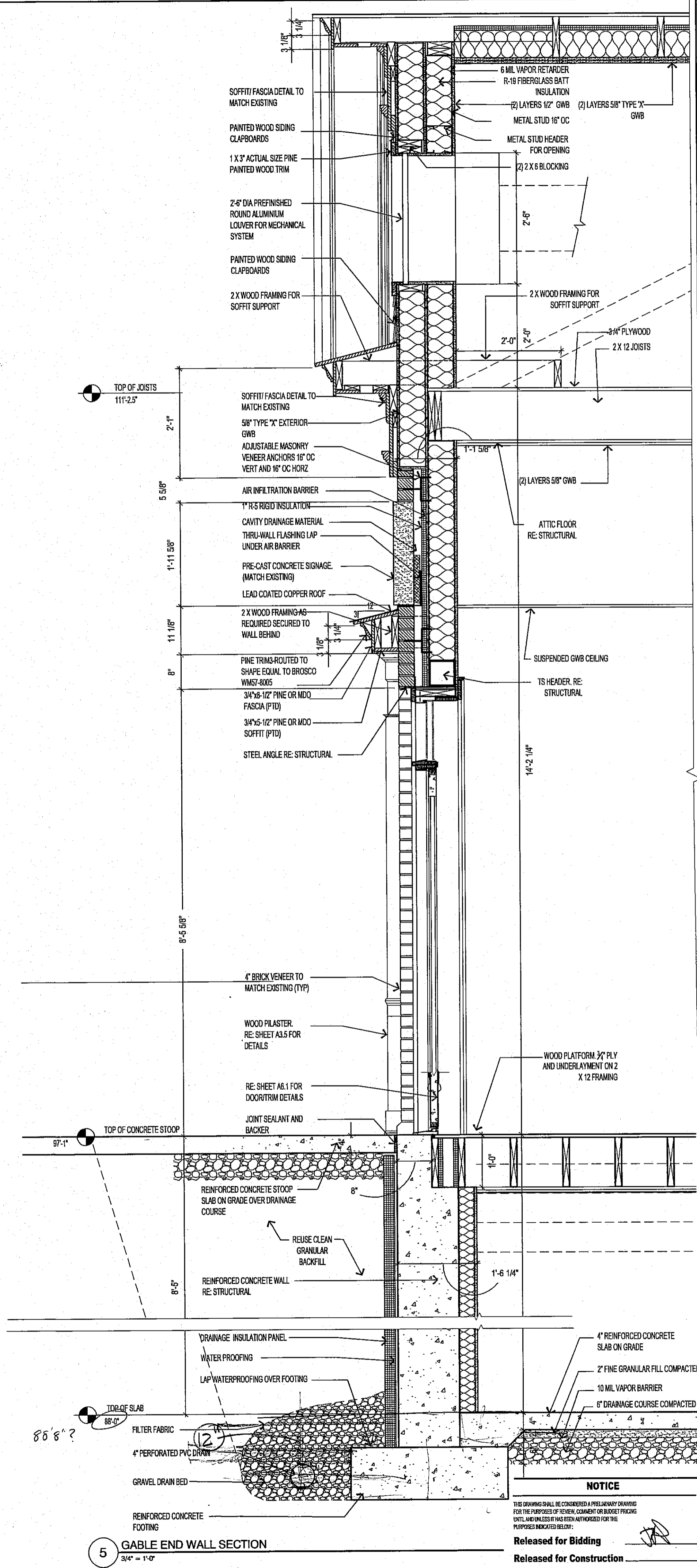
1 TYPICAL WALL SECTION
3 1/4" = 1'-0"



2 SOFFIT AND FASCIA DETAIL
1 1/2" = 1'-0"



3 TYPICAL WALL SECTION AT OPENINGS
3/4" = 1'-0"



5 GABLE END WALL SECTION
3/4" = 1'-0"



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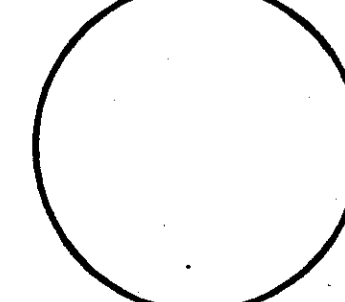
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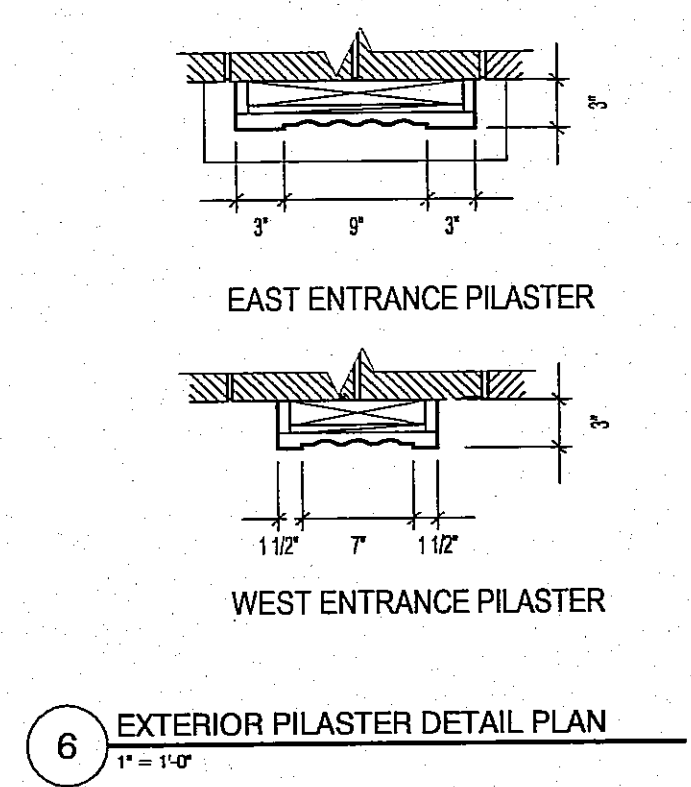
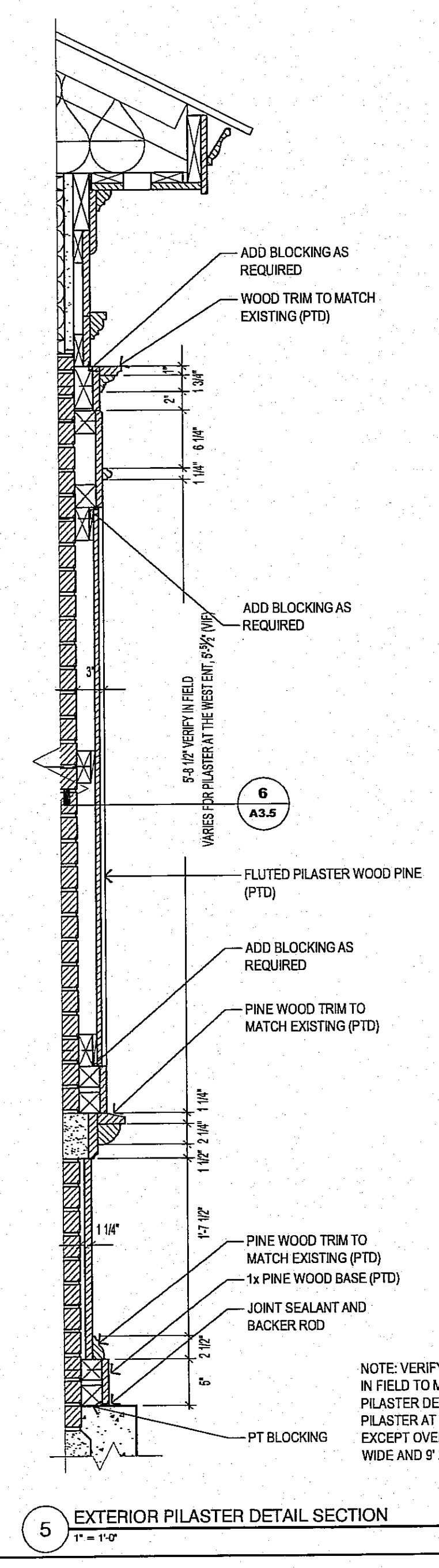
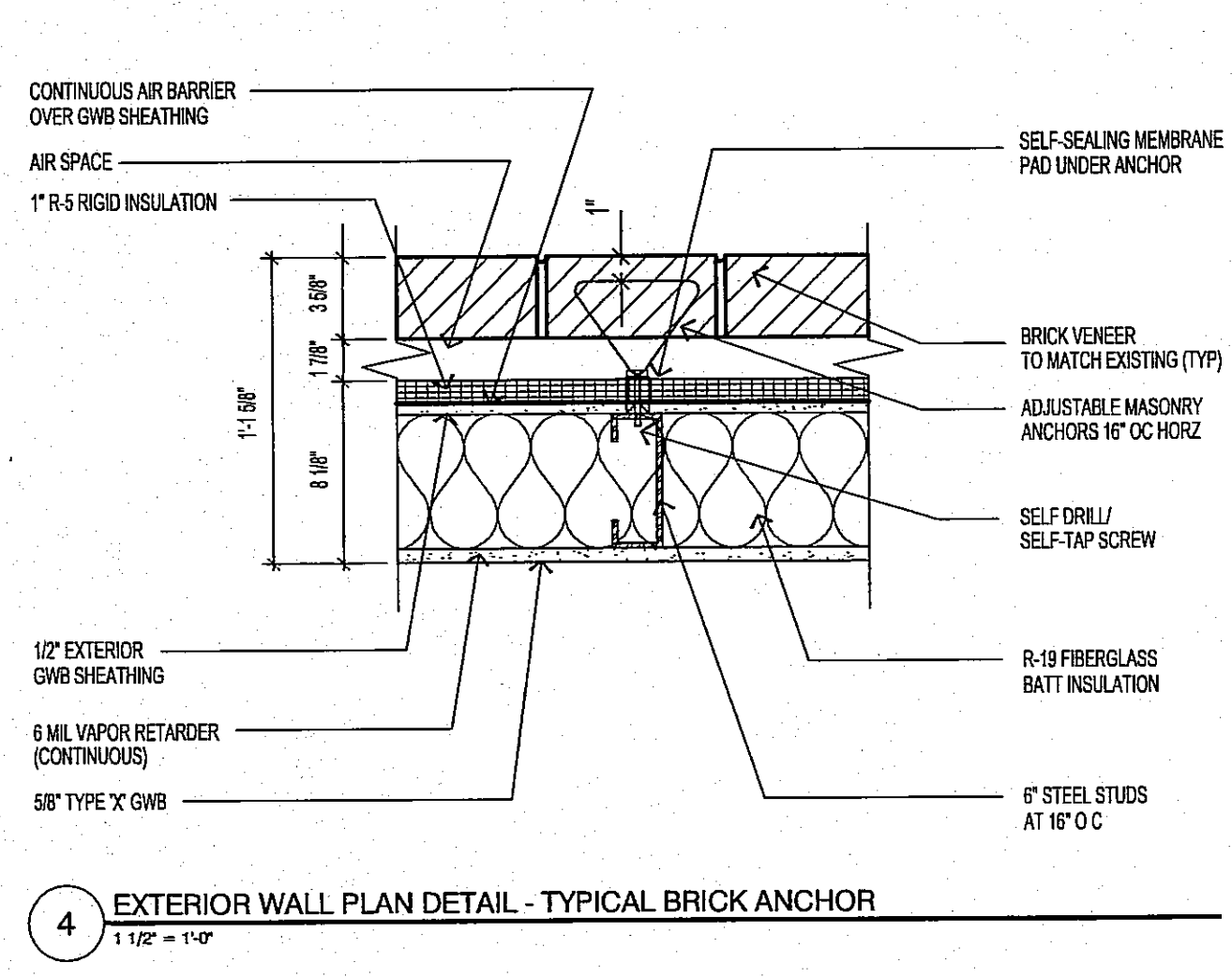
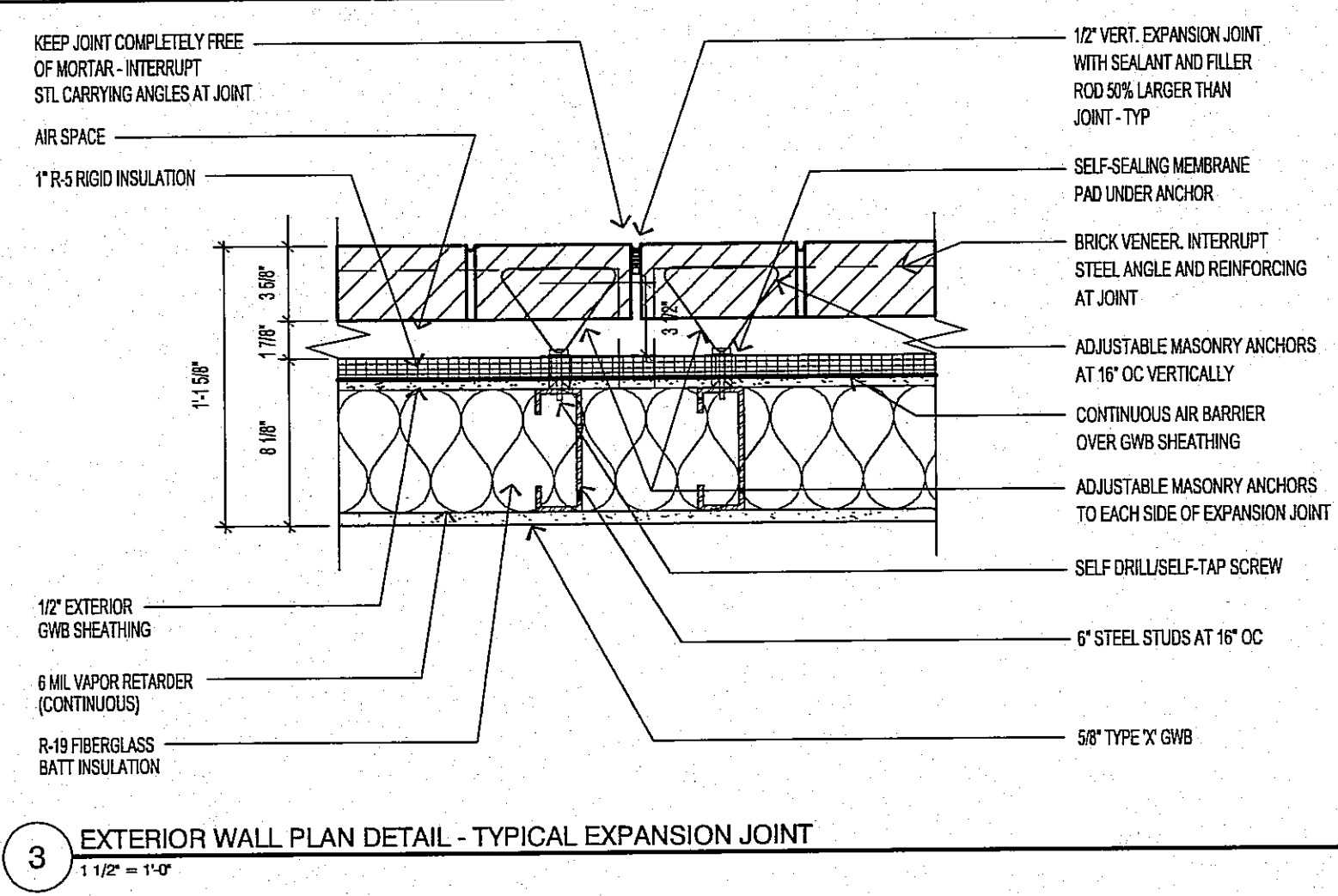
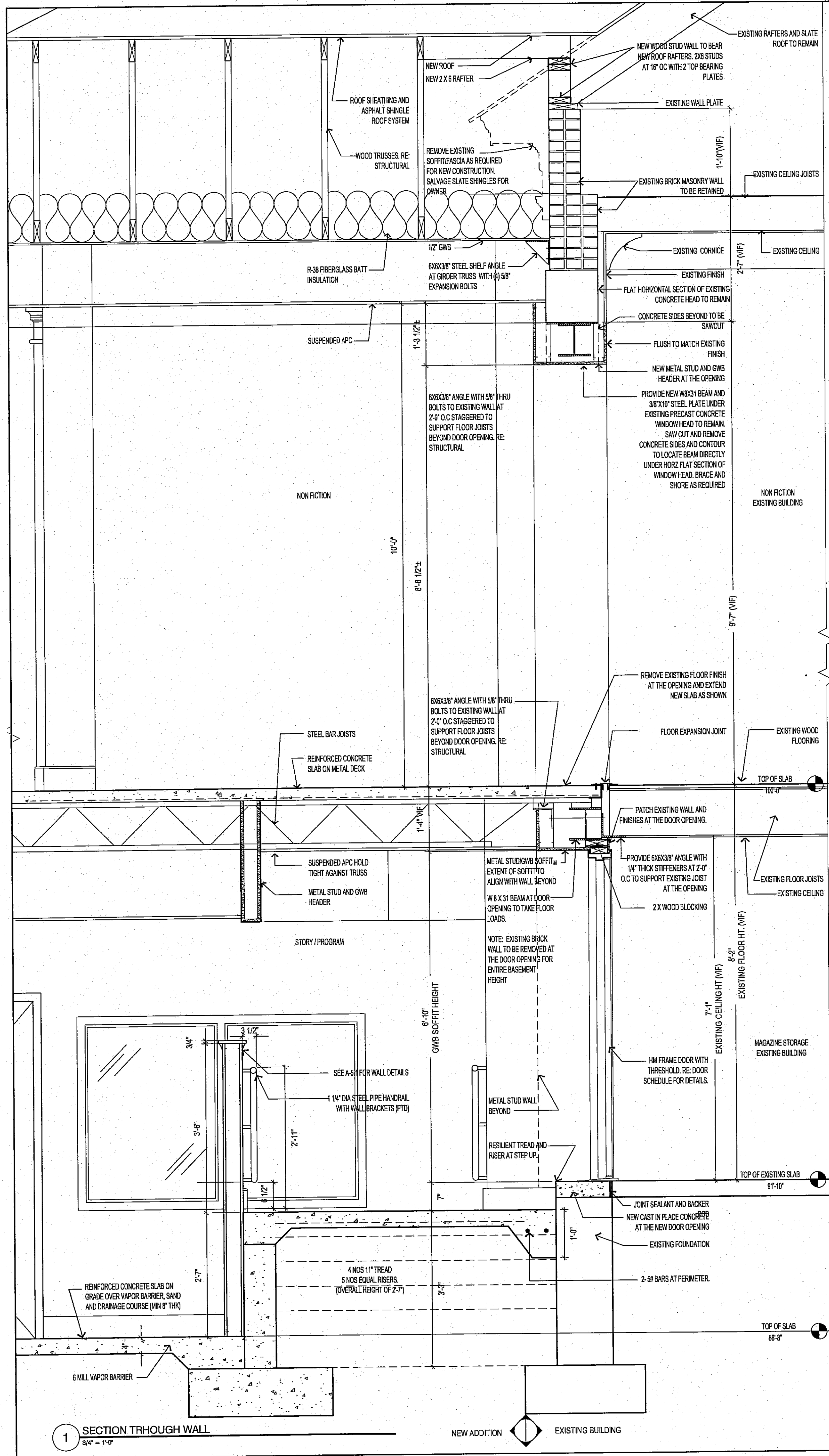
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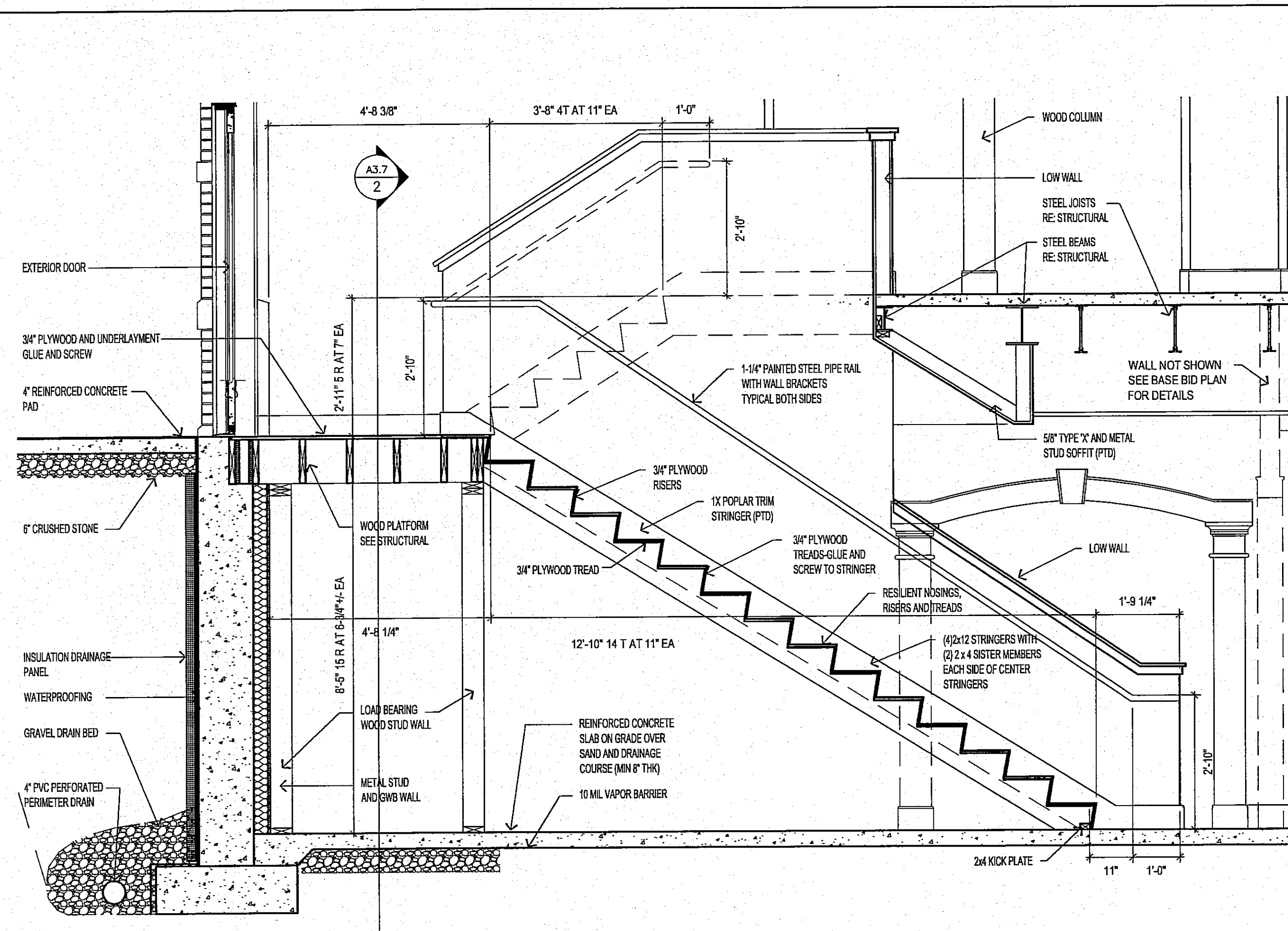
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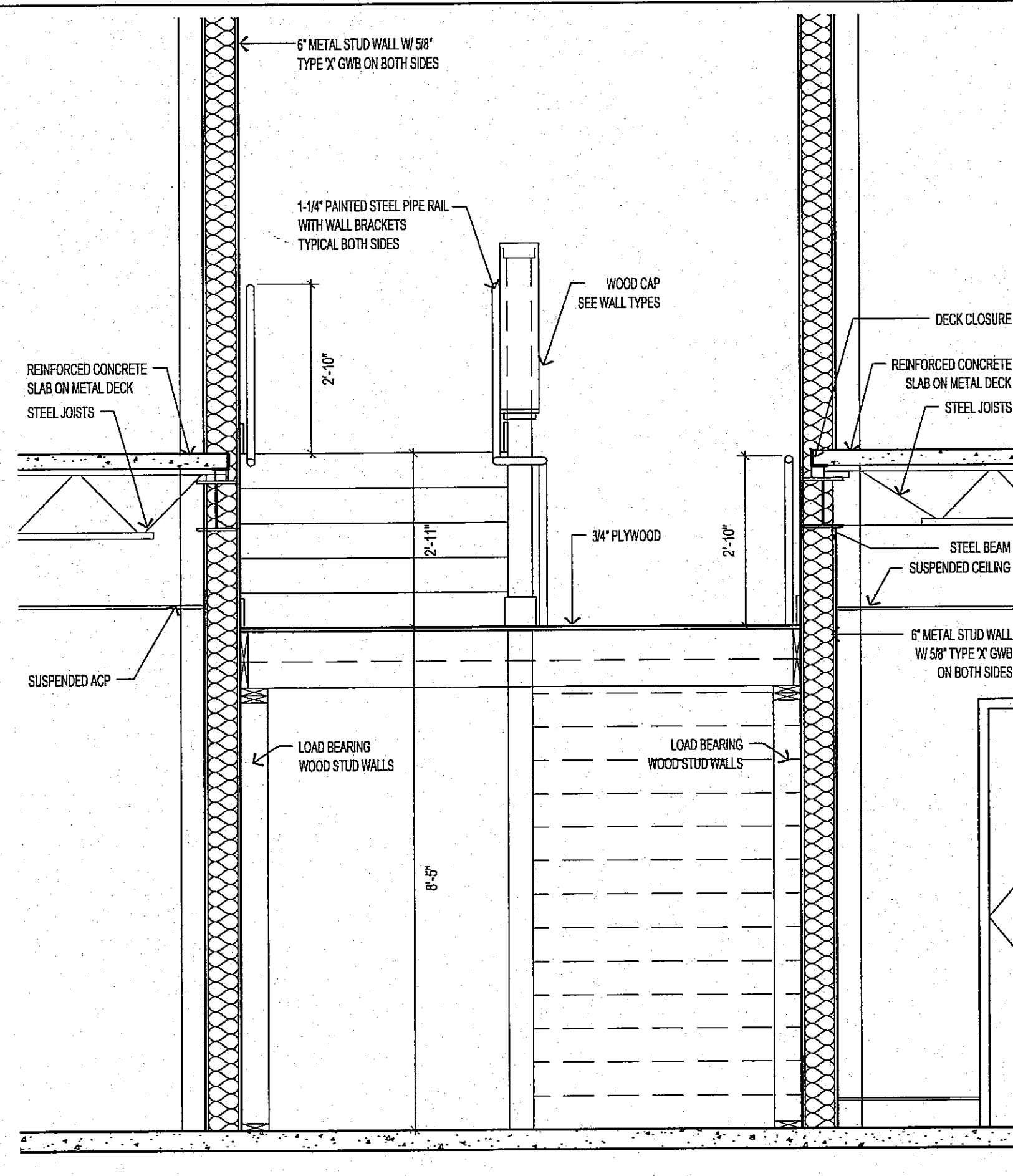
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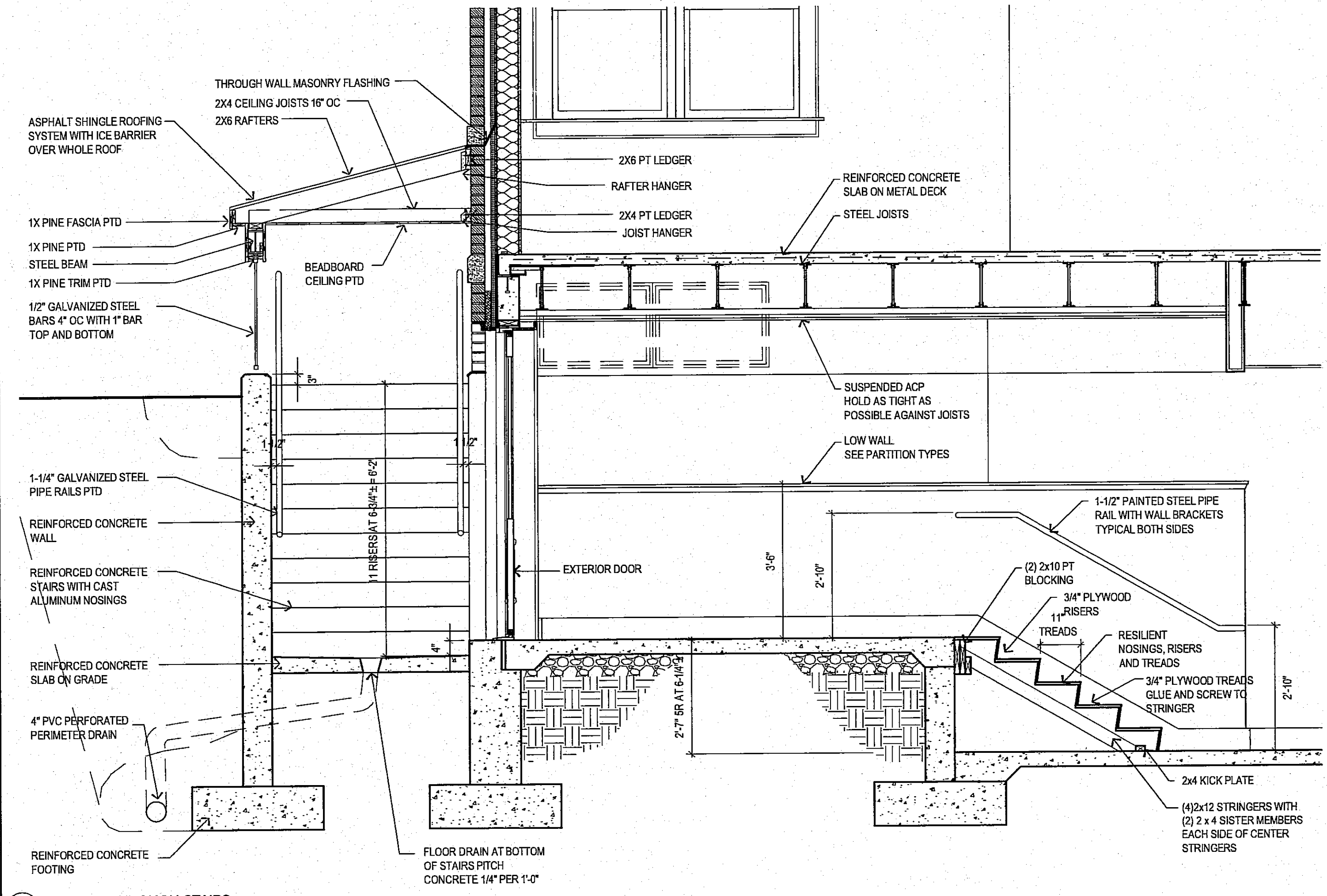
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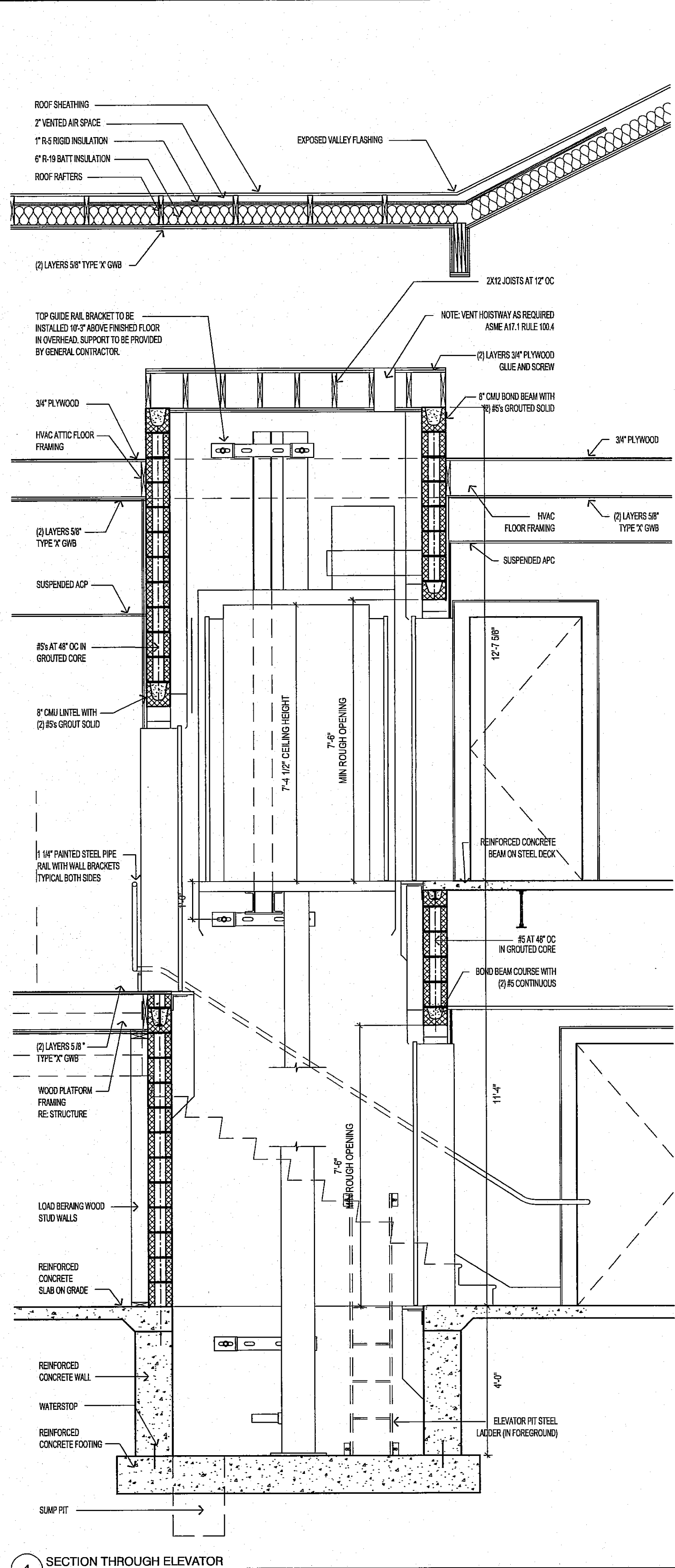
1 SECTION THROUGH STAIRS
1/2" = 1'-0"



2 SECTION THROUGH STAIRS
1/2" = 1'-0"



3 SECTION THROUGH STAIRS
1/2" = 1'-0"



4 SECTION THROUGH ELEVATOR
1/2" = 1'-0"

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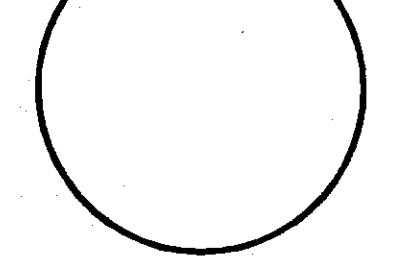
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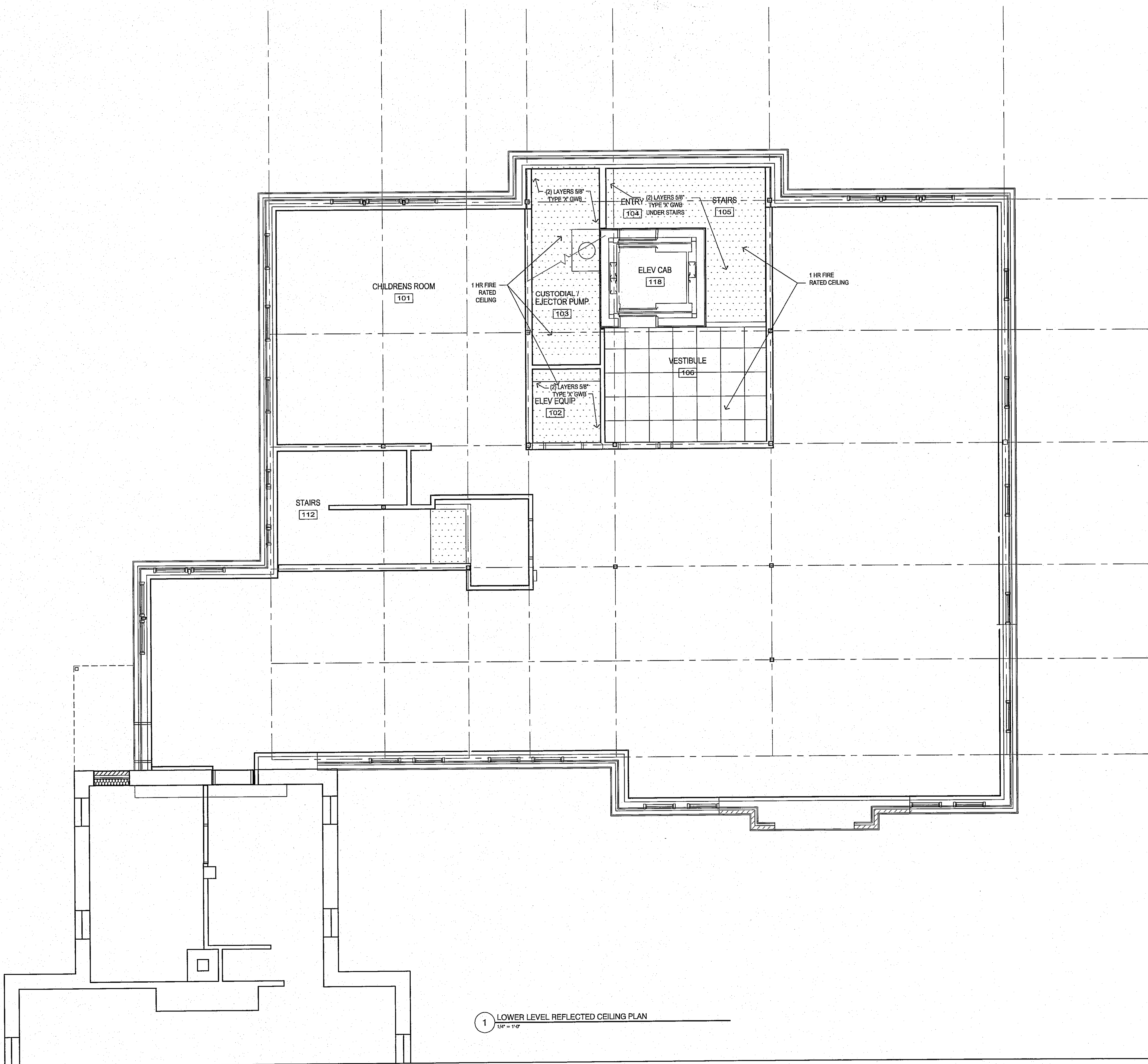
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1 LOWER LEVEL REFLECTED CEILING PLAN
1/4" = 1'-0"

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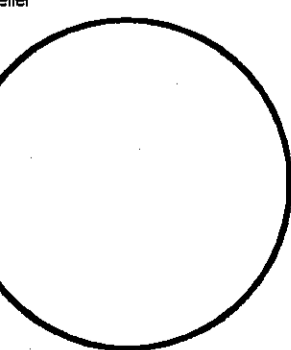
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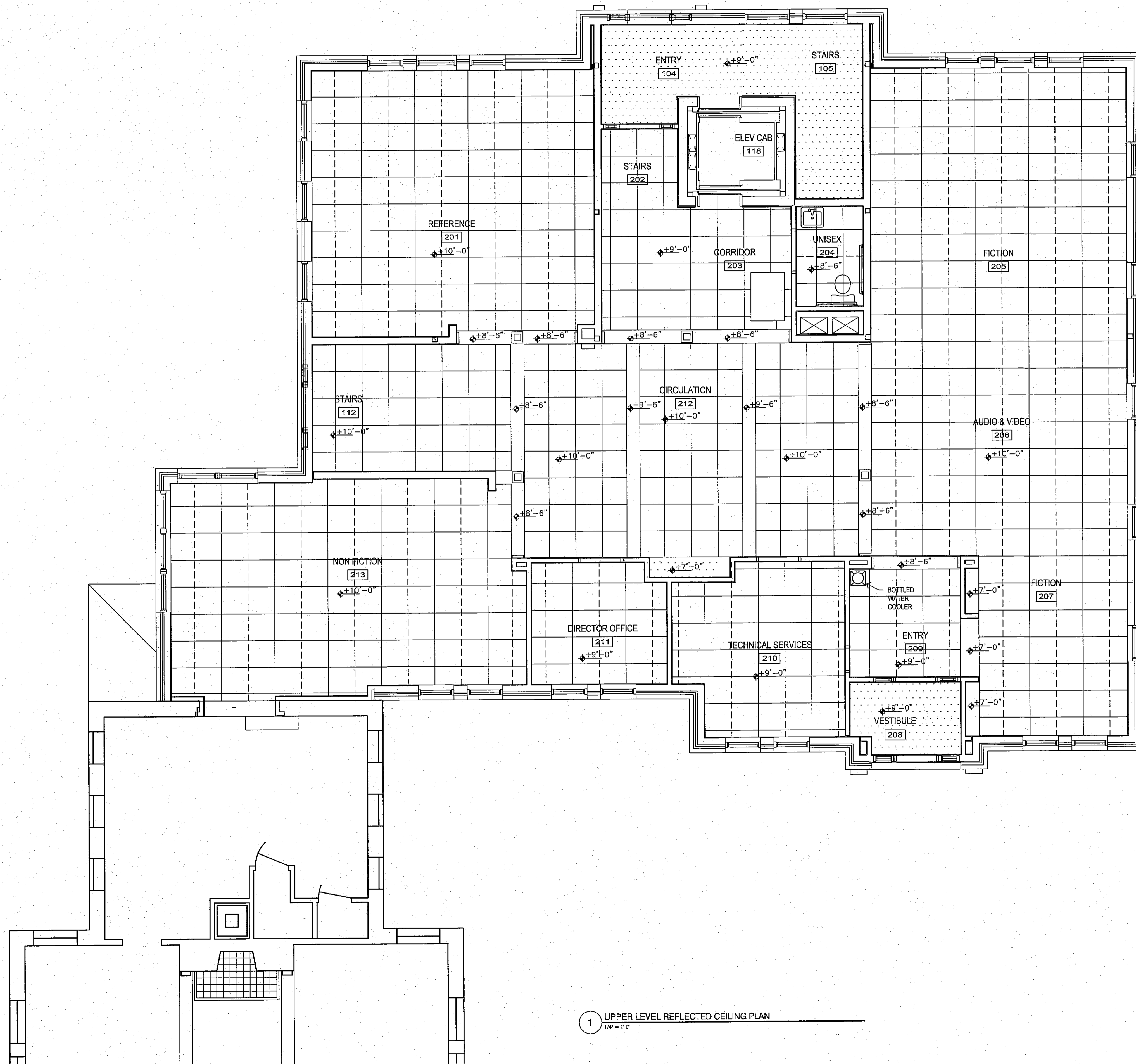
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1 UPPER LEVEL REFLECTED CEILING PLAN
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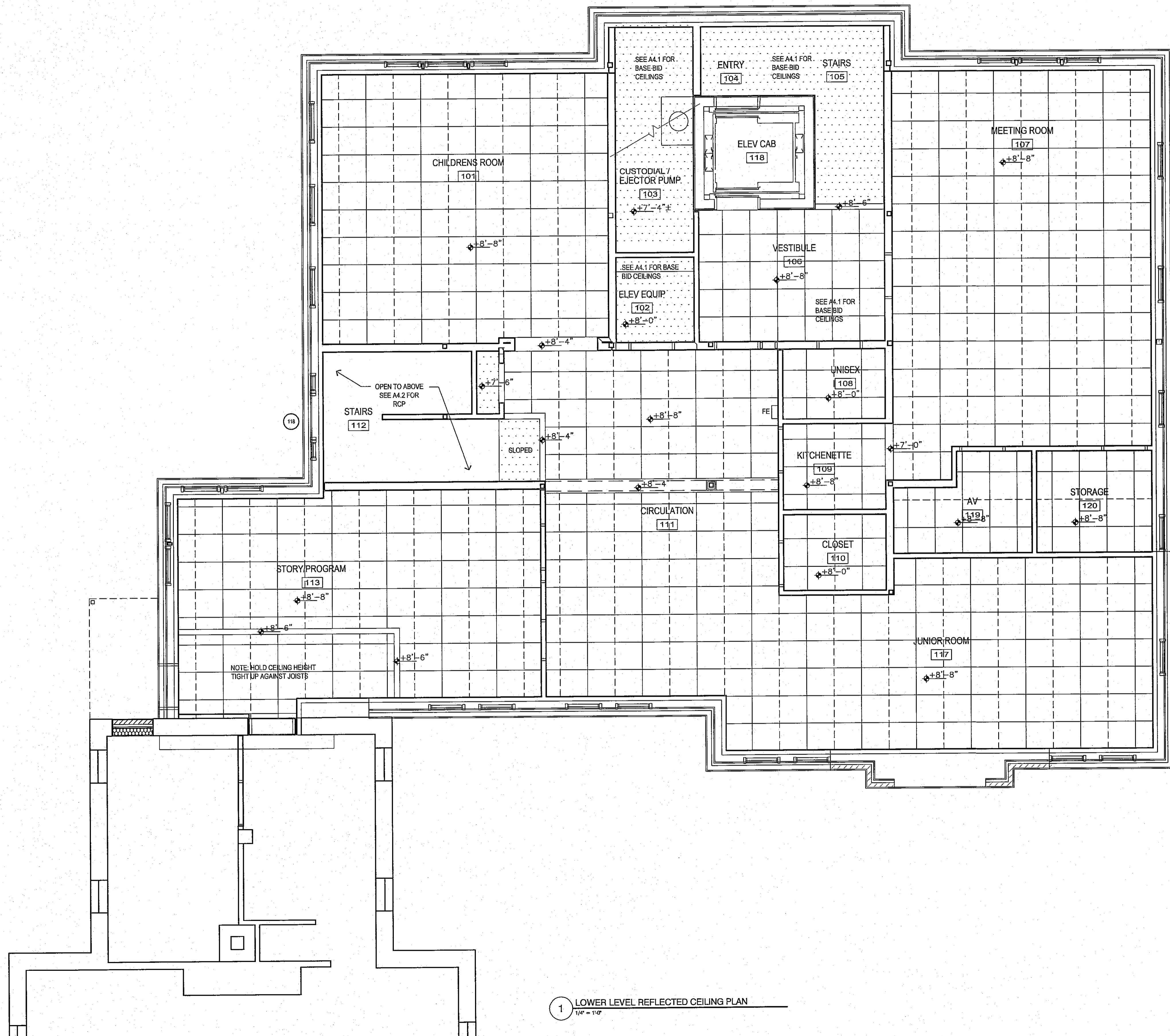
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1 LOWER LEVEL REFLECTED CEILING PLAN
1/8" = 1'-0"



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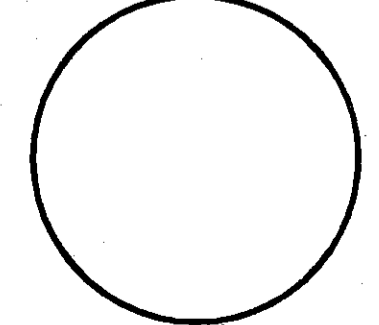
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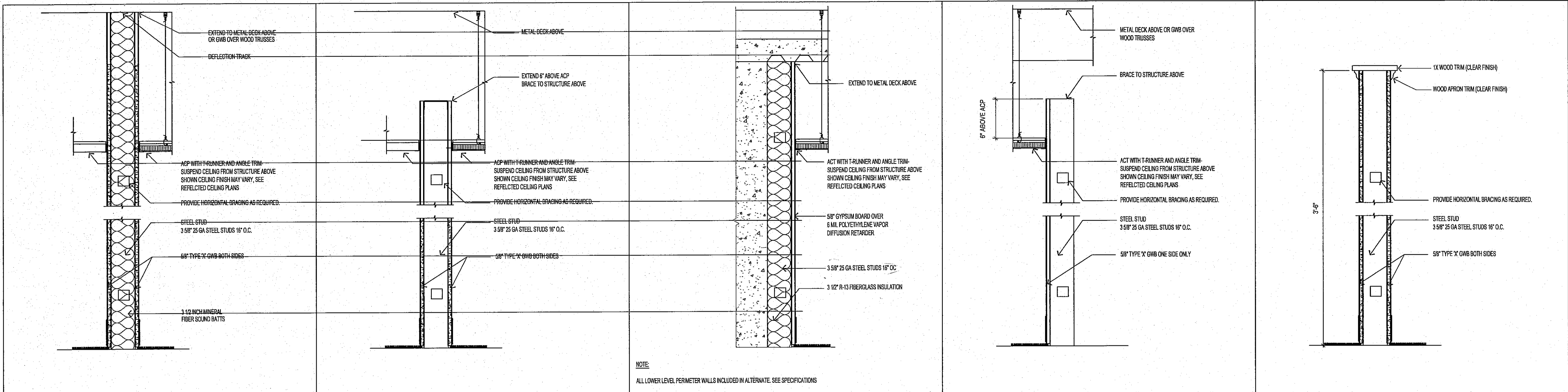
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WALL TYPES

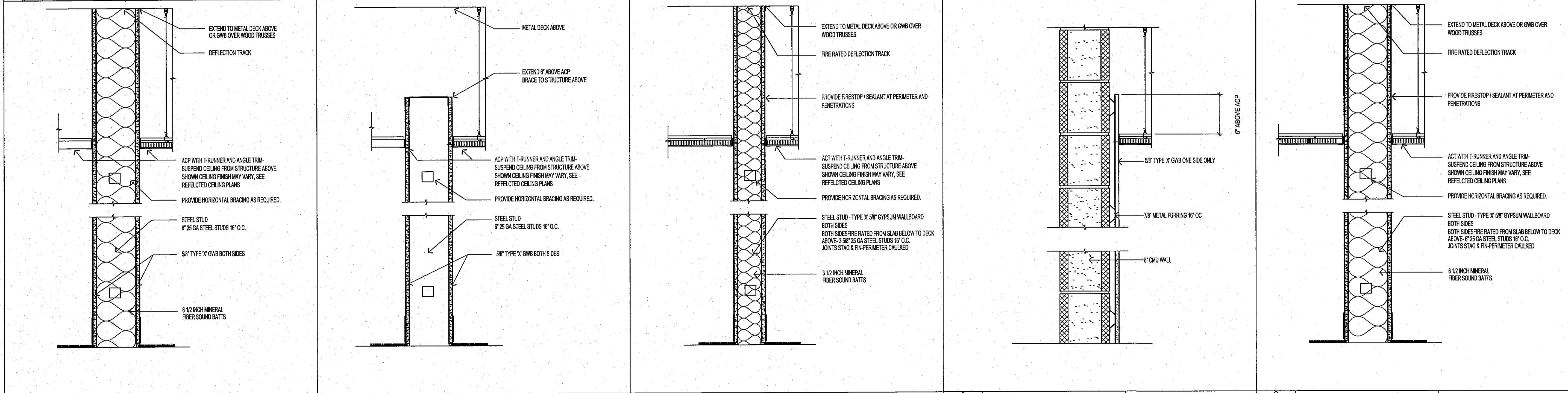
SCALE: AS NOTED

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NOTE:
ALL LOWER LEVEL PERIMETER WALLS INCLUDED IN ALTERNATE. SEE SPECIFICATIONS

1	WALL ASSEMBLY NON-BEARING PARTITION	FIRE RATING NON RATED	1A	WALL ASSEMBLY NON-BEARING PARTITION	FIRE RATING NON RATED	2	WALL ASSEMBLY NON-BEARING WALL	FIRE RATING NON RATED	3	WALL ASSEMBLY NON-BEARING WALL	FIRE RATING NON RATED	4	WALL ASSEMBLY NON-BEARING PARTITION	FIRE RATING NON RATED
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5	WALL ASSEMBLY NON-BEARING PARTITION	FIRE RATING NON RATED	5A	WALL ASSEMBLY NON-BEARING PARTITION	FIRE RATING NON RATED	R1	WALL ASSEMBLY NON-BEARING PARTITION	FIRE RATING 1-HR RATED BASED ON UL DES U419	R1-A	WALL ASSEMBLY LOAD-BEARING PARTITION	FIRE RATING 1-HR RATED BASED ON UL DES U905	R1-B	WALL ASSEMBLY NON-BEARING PARTITION	FIRE RATING 1-HR RATED BASED ON UL DES U419
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1 WALL TYPES
1 1/2" = 1'-0"

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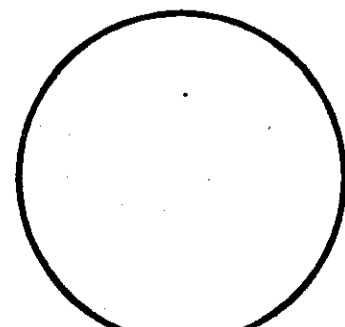
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ROOM NO	ROOM NAME	FLOOR	ALT FLOOR FINISH	WALL BASE	WALLS				CEILING		NOTES
					N	S	E	W	MATL	HEIGHT	
101	CHILDRENS ROOM	VCT1/VCT2/VCT3	NONE	NONE	PTD GWB	PTD GWB	PTD GWB	PTD GWB	APC-1	8'-8"	1
102	ELEV EQUIP	VCT1	NONE	NONE	PTD GWB	PTD GWB	PTD GWB	PTD GWB	PTD GWB	8'-0"	
103	EJECTOR PUMP	VCT1	NONE	NONE	PTD GWB	PTD GWB	PTD GWB	PTD GWB	PTD GWB	7'-4"	
104	ENTRY	WD1	NONE	WD4	PTD GWB	PTD GWB	PTD GWB	PTD GWB	PTD GWB	9'-0"	
105	STAIRS	R1/R3	NONE	WD4	PTD GWB	PTD GWB	PTD GWB	PTD GWB	PTD GWB	9'-0"	
106	VESTIBULE	VCT1/VCT2	NONE	R2	PTD GWB	PTD GWB	PTD GWB	PTD GWB	APC-4	8'-8"	
107	MEETING ROOM	VCT1/VCT2/VCT3	NONE	R2	PTD GWB	PTD GWB	PTD GWB	PTD GWB	APC-1	8'-8"	
108	UNISEX	VCT1	NONE	R2	PTD GWB	PTD GWB	PTD GWB	PTD GWB	APC-1	8'-0"	
109	KITCHENETTE	VCT1	NONE	R2	PTD GWB	PTD GWB	PTD GWB	PTD GWB	APC-1	8'-8"	
110	CLOSET	VCT1	NONE	R2	PTD GWB	PTD GWB	PTD GWB	PTD GWB	APC-1	8'-0"	
111	CIRCULATION	VCT1/VCT2/VCT3	NONE	R2	PTD GWB	PTD GWB	PTD GWB	PTD GWB	APC-1	8'-8"	
112	STAIRS	R1/R3	NONE	WD4	PTD GWB	PTD GWB	PTD GWB	PTD GWB	APC-2	10'-0"	
113	STORY/PROGRAM	VCT1/VCT2/VCT3	NONE	R2	PTD GWB	PTD GWB	PTD GWB	PTD GWB	APC-1	8'-8"	
114	MECH	EXISTING	NONE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	7'-1"	
115	MAGAZINE STORAGE	EXISTING	NONE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	7'-1"	
116	WORK AREA	EXISTING	NONE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	7'-1"	
117	JUNIOR ROOM	VCT1	NONE	R2	PTD GWB	N/A	PTD GWB	PTD GWB	APC-1	8'-8"	
118	ELEV CAB	WD1	NONE	NONE	SEE ELEV SPEC	SEE ELEV SPEC	SEE ELEV SPEC	SEE ELEV SPEC	SEE ELEV SPEC	7'-4"	
119	AV	VCT1	NONE	R2	PTD GWB	PTD GWB	PTD GWB	PTD GWB	A	8'-8"	
120	STORAGE	VCT1	NONE	R2	PTD GWB	PTD GWB	PTD GWB	PTD GWB	A	8'-8"	
201	REFERENCE	WD1	CPT1	SEE NOTES	PTD GWB	PTD GWB	PTD GWB	PTD GWB	A	10'-0"	2
202	STAIRS	WD1/R1/R3	NONE	WD4	PTD GWB	PTD GWB	N/A	PTD GWB	B	9'-0"	
203	CORRIDOR	WD1/WD3	NONE	WD4	PTD GWB	PTD GWB	N/A	PTD GWB	B	9'-0"	
204	UNISEX	VCT1	NONE	R2	PTD GWB	PTD GWB	PTD GWB	PTD GWB	A	8'-6"	
205	FICTION	WD1/WD2	VCT1/VCT2/VCT3	NONE	PTD GWB	PTD GWB	PTD GWB	PTD GWB	A	10'-0"	
206	AUDIO & VIDEO	WD1/WD2	VCT1/VCT2/VCT3	SEE NOTES	PTD GWB	N/A	N/A	N/A	A	10'-0"	2
207	FICTION	WD1/WD2	VCT1/VCT2/VCT3	NONE	PTD GWB	PTD GWB	PTD GWB	PTD GWB	A	10'-0"	
208	VESTIBULE	WD1	NONE	WD4	PTD GWB	PTD GWB	PTD GWB	PTD GWB	PTD GWB	9'-0"	
209	ENTRY	WD1/WD3	VCT1/VCT2/VCT3	WD4	PTD GWB	PTD GWB	PTD GWB	N/A	A	9'-0"	
210	TECHNICAL SERVICES	WD1	VCT1/VCT2/VCT3	WD4	PTD GWB	PTD GWB	PTD GWB	PTD GWB	A	9'-0"	
211	DIRECTOR OFFICE	WD1	VCT1/VCT2/VCT3	WD4	PTD GWB	PTD GWB	PTD GWB	PTD GWB	A	9'-0"	
212	CIRCULATION	WD1/WD3	NONE	WD4	N/A	N/A	PTD GWB	PTD GWB	B	10'-0"	
213	NON FICTION	WD1/WD2	VCT1/VCT2/VCT3	SEE NOTES	N/A	PTD GWB	N/A	PTD GWB	A	10'-0"	3
214	NON FICTION	EXISTING	NONE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	11'-4"	
215	READING ROOM	EXISTING	NONE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	11'-4"	
216	CIRCULATION	EXISTING	NONE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	11'-4"	
217	WORK STATION	EXISTING	NONE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	11'-4"	
218	VESTIBULE	EXISTING	NONE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	11'-4"	

- NOTES:
- PROVIDE WOOD BASE AS NOTED FOR ARCH ENTRANCE.
 - PROVIDE WOOD BASE WD4 AT COLUMN AND PILASTER ONLY.
 - PROVIDE WOOD BASE WD4 AT PILASTER, COLUMNS AND WRAP OPENING TO EXISTING LIBRARY.

- LEGEND
- | | |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| VCT1 = VINYL COMPOSITION TILE; FIELD COLOR | WD3 = LAMINATE FLOORING; ACCENT COLOR 12" WIDE TO MATCH SOFFIT PATTERN |
| VCT2 = VINYL COMPOSITION TILE; ACCENT COLOR | WD4 = PINE WOOD BASE; CLEAR FINISH |
| VCT3 = VINYL COMPOSITION TILE; ACCENT COLOR | R1 = RESILIENT STAIR TREADS AND RISERS |
| WD1 = LAMINATE FLOORING; FIELD COLOR | R2 = RESILIENT WALL BASE |
| WD2 = LAMINATE FLOORING BORDER; 24" WIDE; SAME COLOR AS WD1; LAY IN PERPENDICULAR DIRECTION TO WD1 | R3 = RESILIENT STRINGERS |

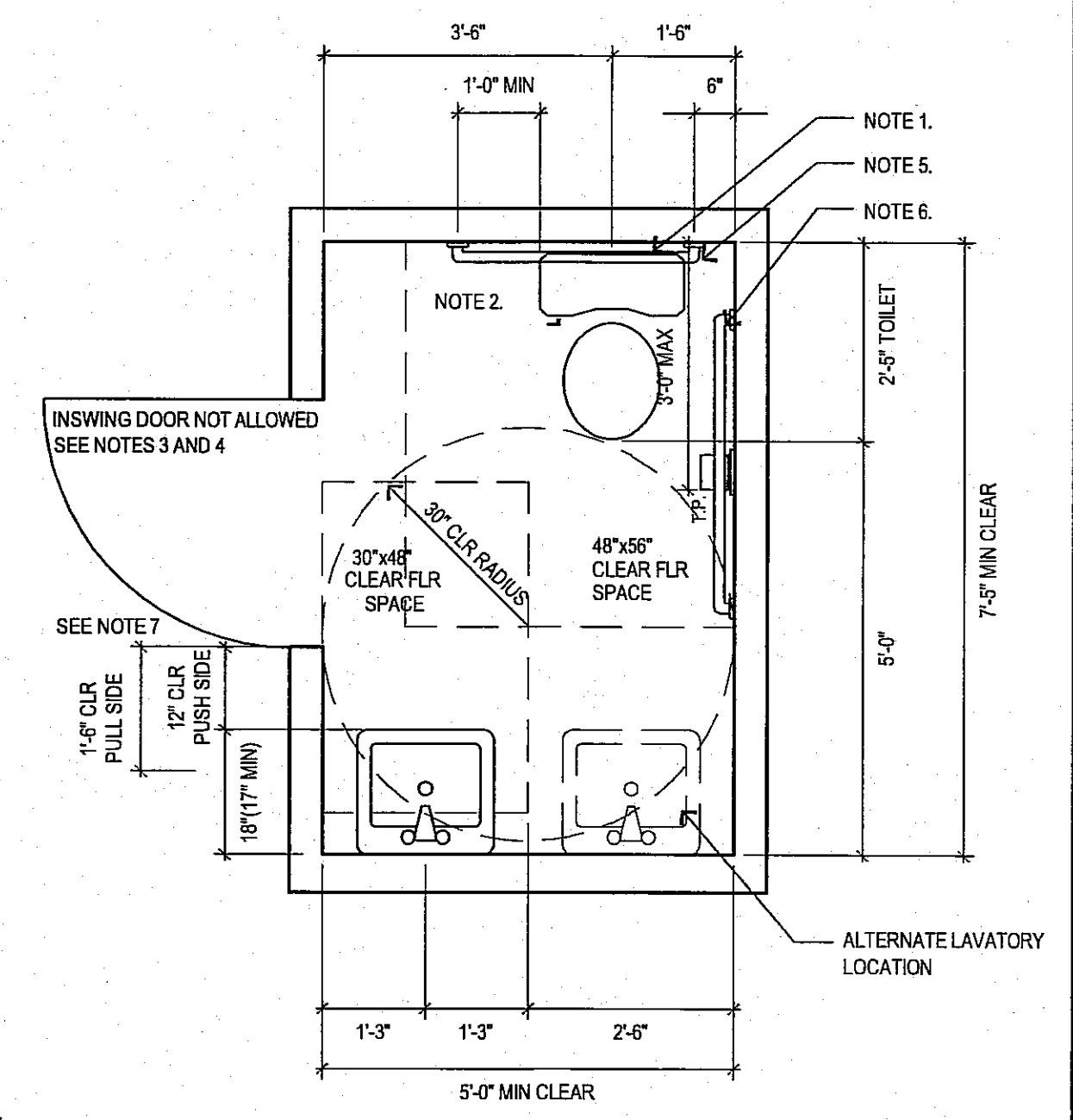
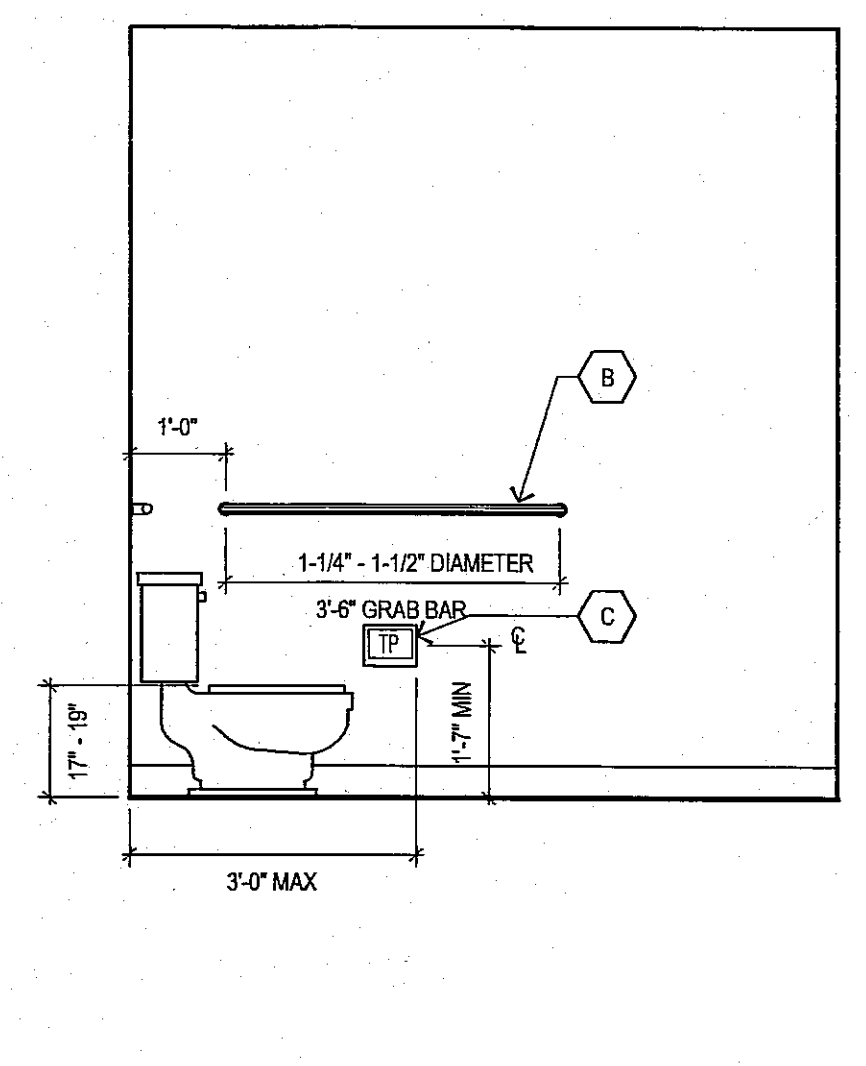
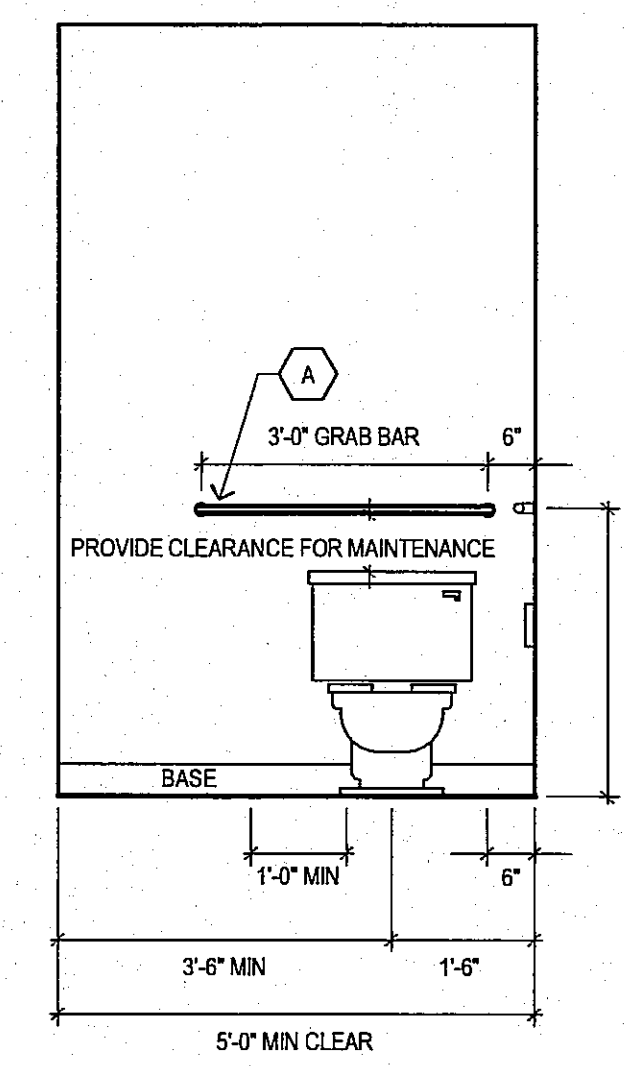
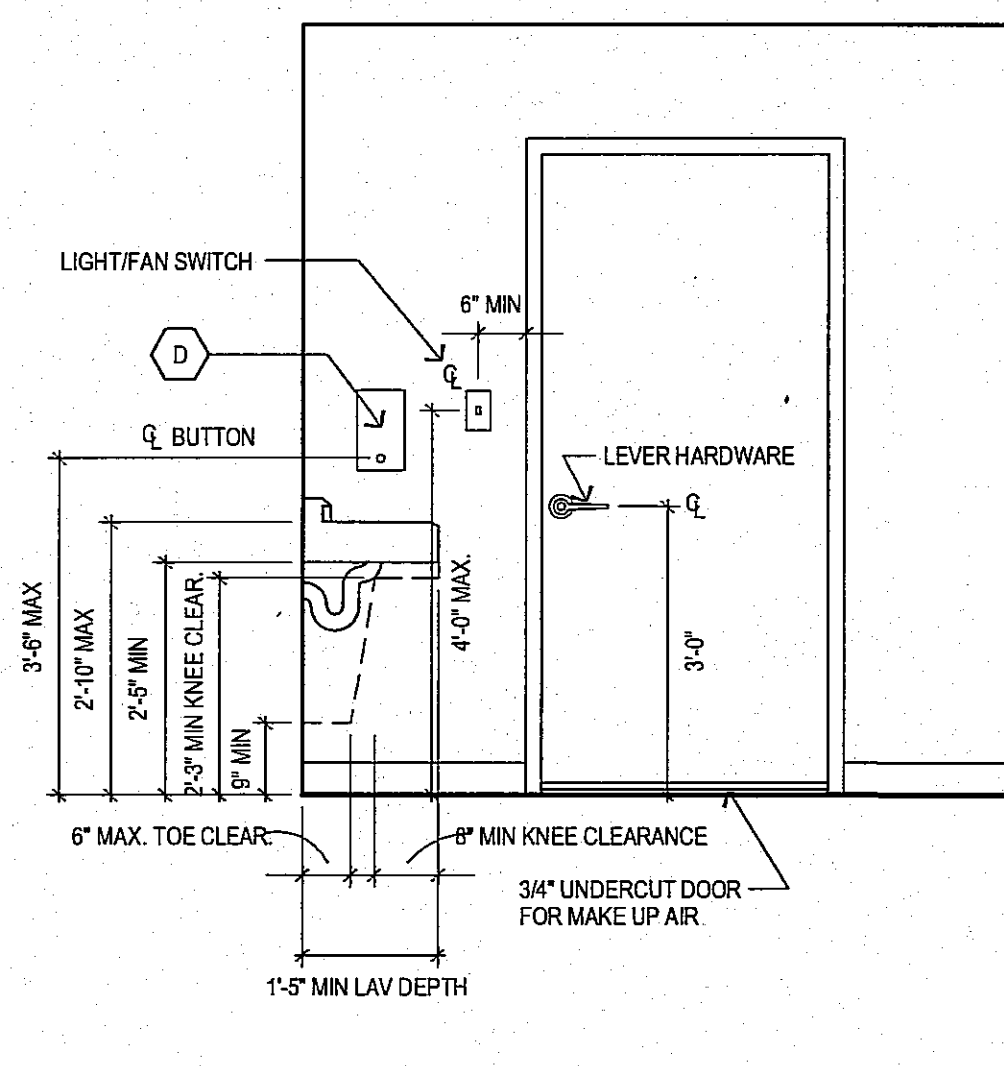
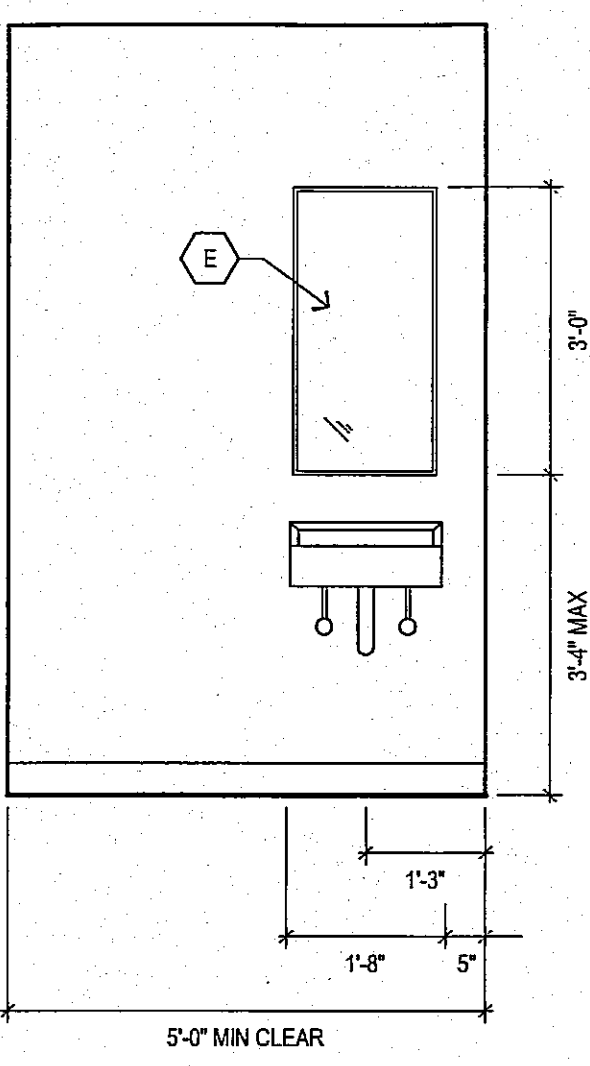
2 ADA REQUIREMENTS
1/2" = 1'-0"

BATHROOM ACCESSORIES

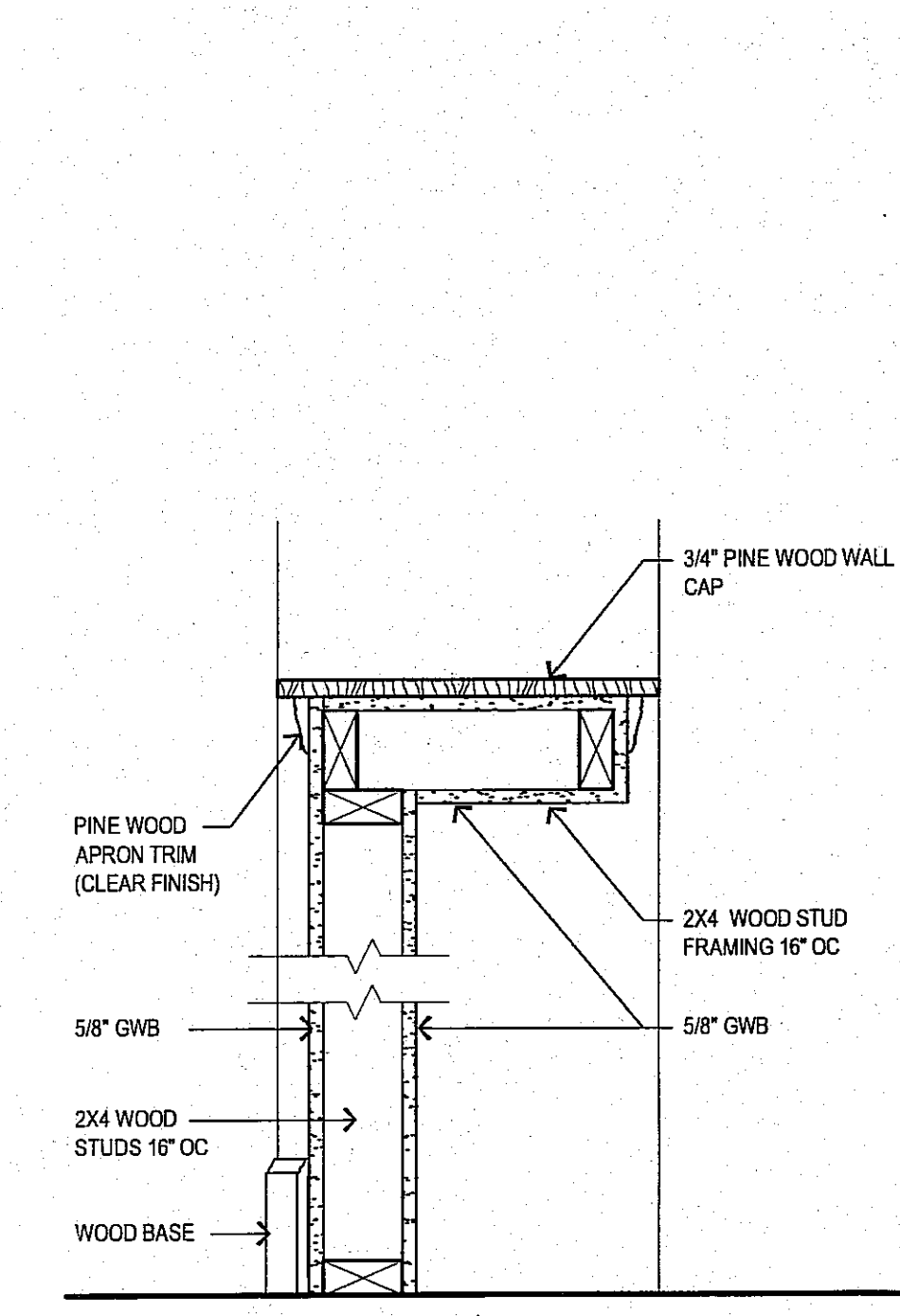
- A 36" ADA GRAB BAR
HT = 36" TO CENTERLINE
- B 42" ADA GRAB BAR
HT = 36" TO CENTERLINE
- C SEMI-RECESSED TOILET TISSUE HOLDER
HT = 1'-7" TO ROLL CENTERLINE
- D SURFACE-MOUNTED LIQUID SOAP DISPENSER
HT = 3'-4" TO LEVER
- E ADA MIRROR
HT = 3'-4" TO MIRROR BOTTOM
6'-2" MIN TO TOP 18" W x 36" H

NOTE: BATHROOMS TO FOLLOW ALL APPLICABLE LOCAL, STATE AND FEDERAL ADA CODES. BATHROOM ACCESSORIES TO BE BOBRICK OR APPROVED EQUAL.

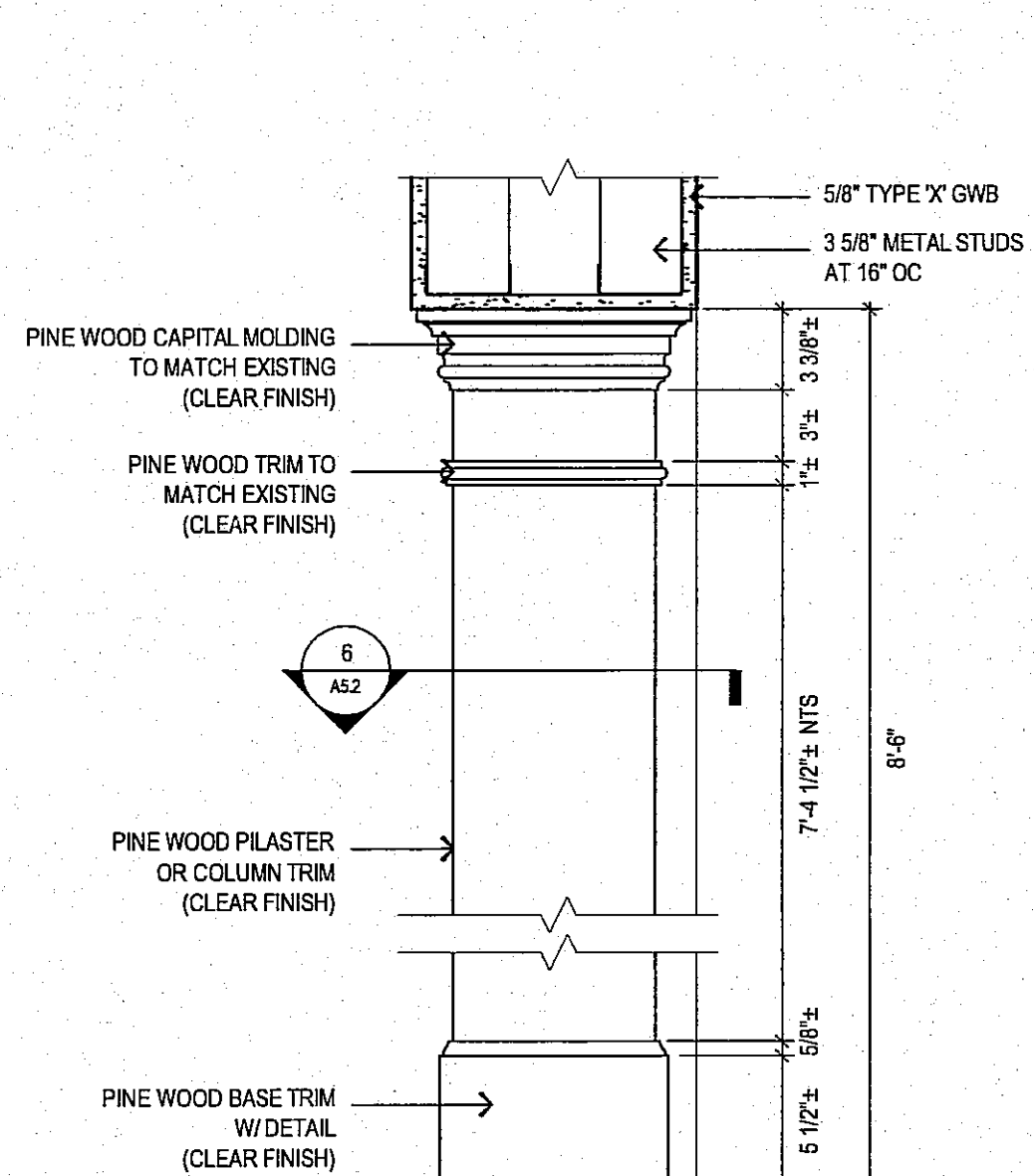
- ADA TOILET NOTES:**
- IF HEIGHT OF GRAB BAR (33" TO 36" A.F.F.) CONFLICTS WITH OTHER LOCAL REQUIREMENTS THEN EITHER SHIFT BAR OR INSTALL SPLIT GRAB BARS.
 - INSTALL FLUSH CONTROL TOWARD WIDE SIDE.
 - MANEUVERING CLEARANCES AT DOORS. SEE ADAAG 4.13 DOORS AND FIGURE 25.
 - DOORS FOR SINGLE OCCUPANCY TOILET ROOMS TO BE SELF-CLOSING WITH LATCH AND LOCK. SEE ALSO ADAAG 4.13 AND 4.22.2 DOORS.
 - 36" MIN. GRAB BAR REQUIRED AT REAR OF TOILET
 - 42" MIN. GRAB BAR REQUIRED AT SIDE OF TOILET
 - CONTRACTOR TO CONFIRM WITH ADAAG 4.13 DOORS AND FIGURE 25 FOR COMPLIANCE WITH REQUIRED DOOR CLEARANCES. NOTIFY ARCHITECT OF ANY CONFLICTS.
 - INSULATE DRAIN AND HOT WATER SUPPLY PIPES WHILE REMAINING IN COMPLIANCE WITH HANDICAP CLEARANCES AROUND ALL BATHROOM FIXTURES - OFFSET TRAP AS NECESSARY.
 - PLUMBING MUST BE FREE OF SHARP EDGES AND ROUGH SURFACES.
 - FAUCETS AND HARDWARE MUST BE OF LEVER TYPE.



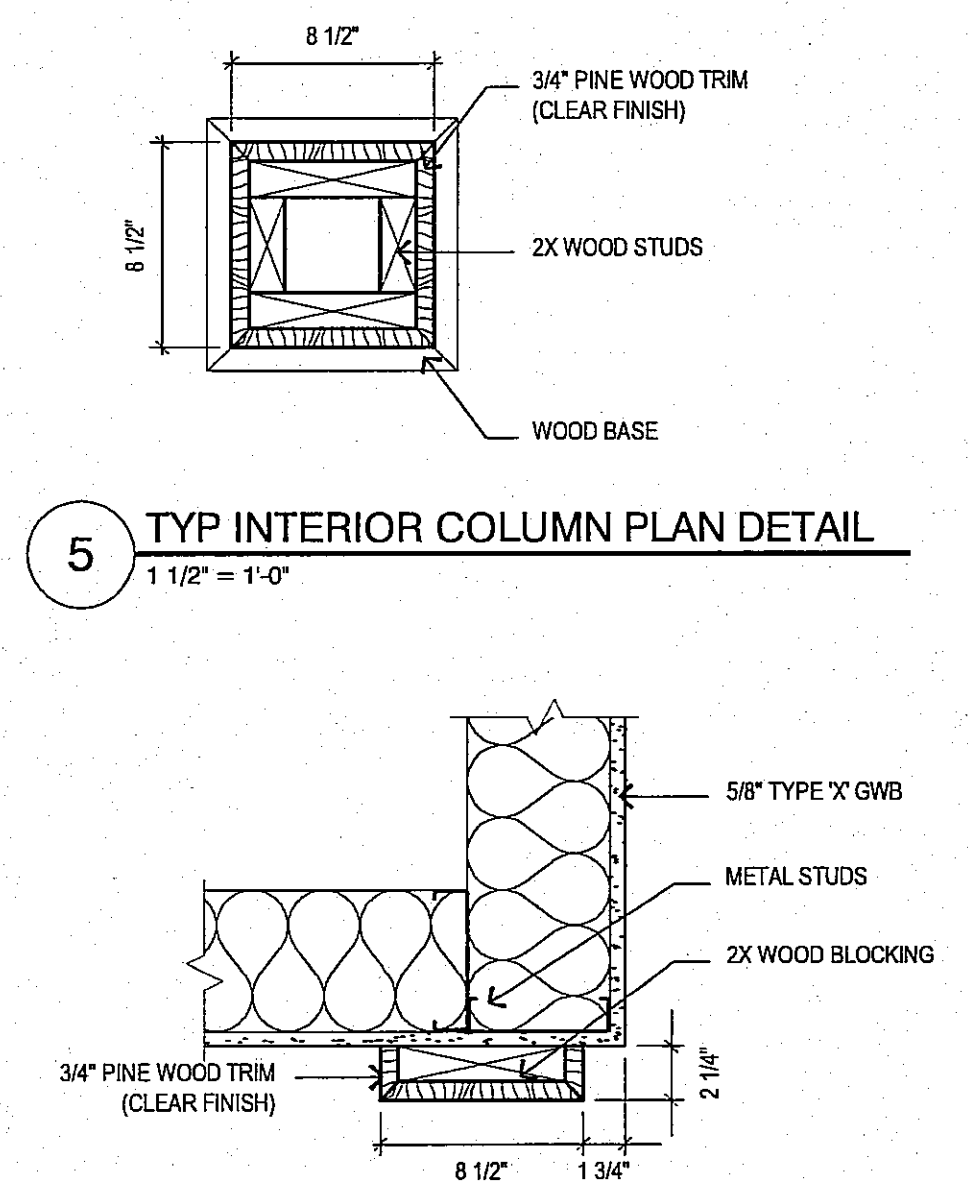
1 FINISH SCHEDULE
NTS



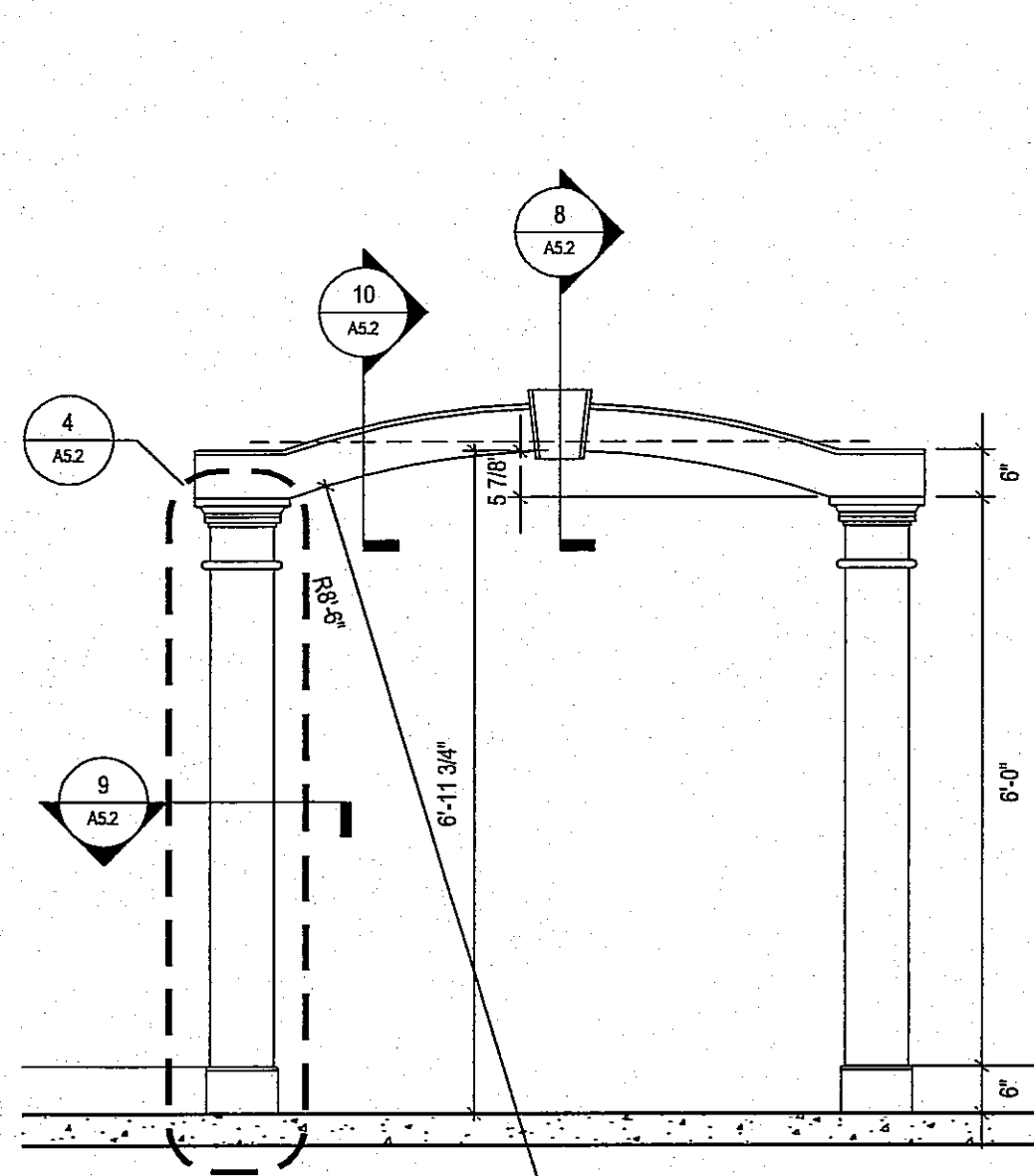
3 CASEWORK DETAIL
1 1/2" = 1'-0"



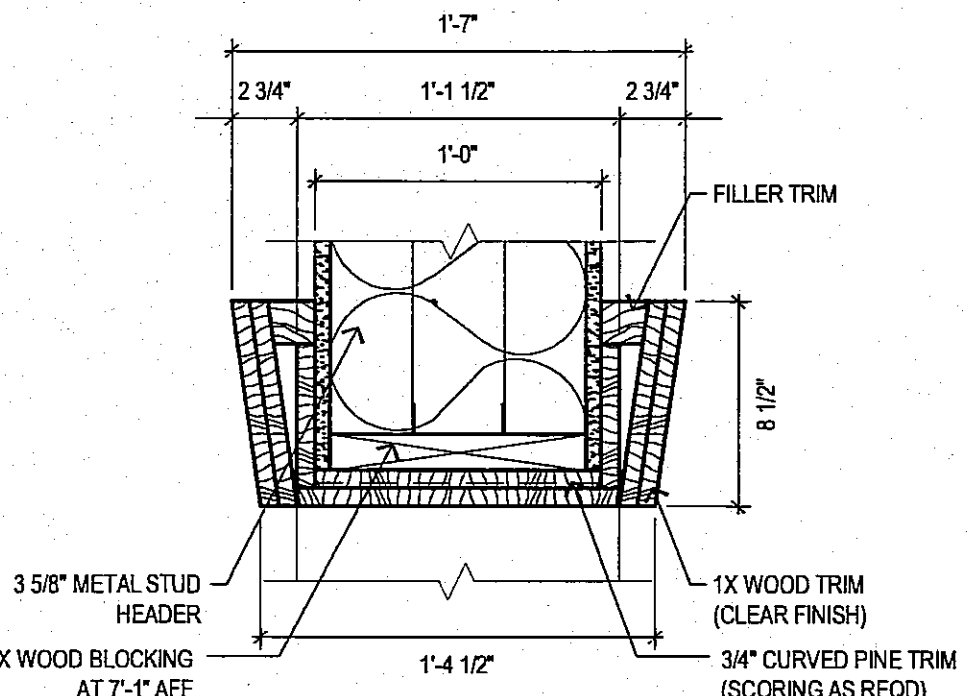
4 TYP INTERIOR PILASTER/COLUMN ELEVATION
1 1/2" = 1'-0"



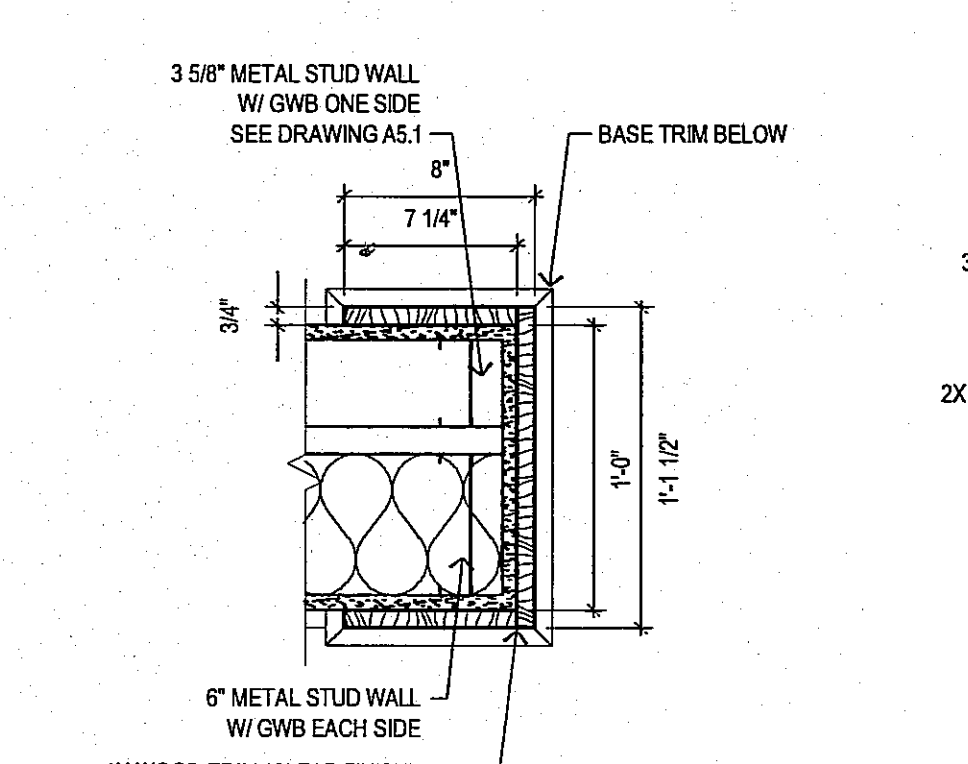
5 TYP INTERIOR PILASTER PLAN DETAIL
1 1/2" = 1'-0"



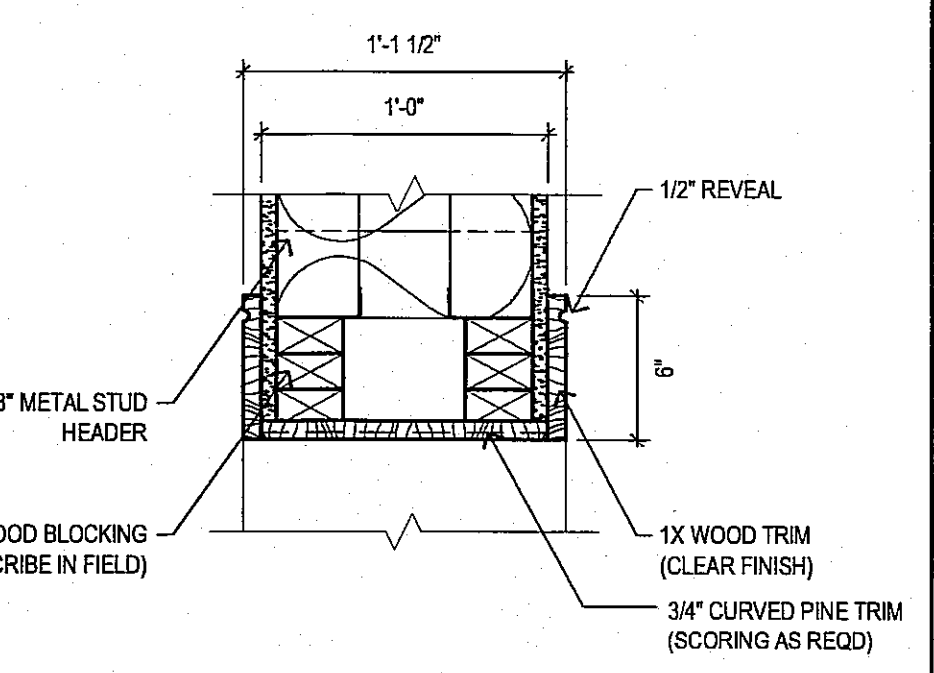
7 ARCH DETAIL
1/2" = 1'-0"



8 SECTION THROUGH ARCH
1 1/2" = 1'-0"



9 SECTION THROUGH ARCH
1 1/2" = 1'-0"

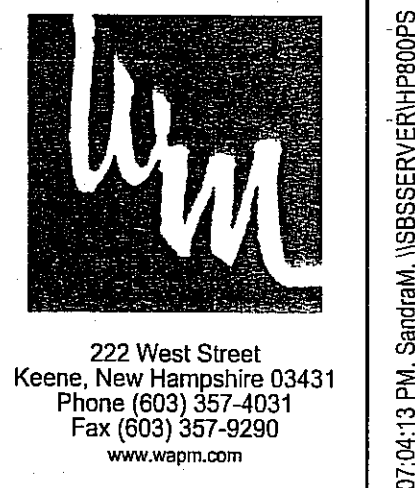


10 SECTION THROUGH ARCH
1 1/2" = 1'-0"

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FINISH SCHEDULE, INTERIOR ELEVATIONS AND DETAILS

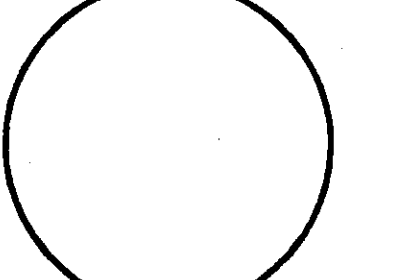
SCALE: AS NOTED

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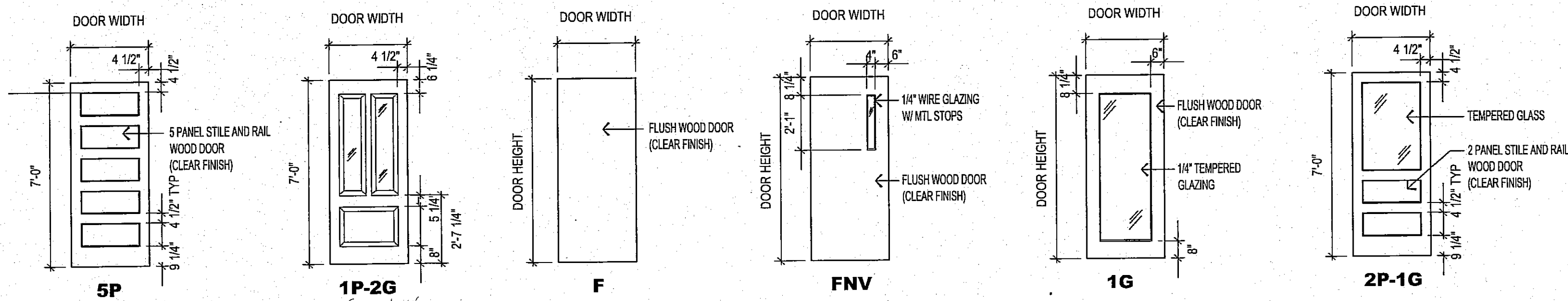
PROJECT ARCHITECT
Tom Weller



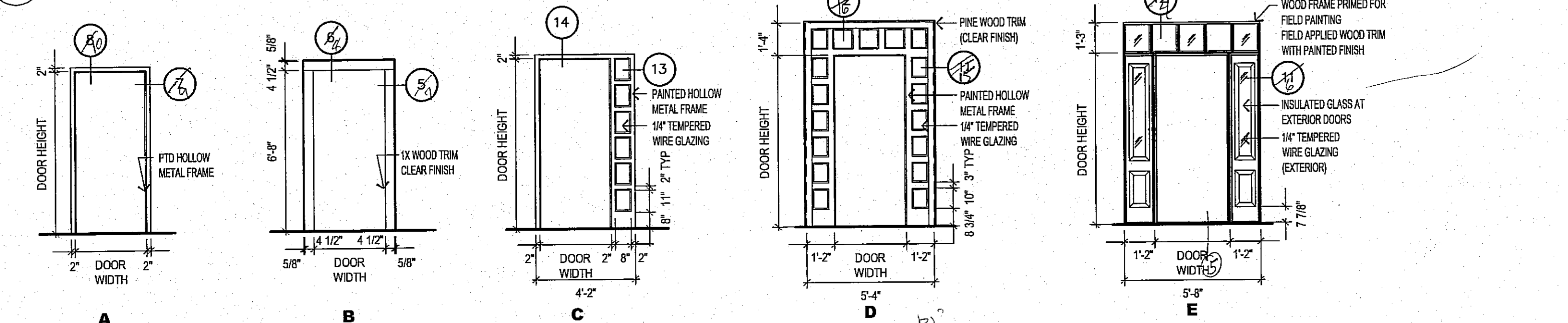
DOOR SCHEDULE														
NUMBER	LOCATION	DOOR					FRAME			MIN RATING	GLAZING	PROTECTION	HARDWARE SET	NOTES
		WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	MATERIAL	TYPE					
001	STAIRS	3'-0"	7'-0"	1 3/4"	1P-2G	FIBERGLASS	PTD	WOOD	E	PTD	NONE	INSULATED	NONE	-
002	ENTRY	3'-0"	7'-0"	1 3/4"	1P-2G	FIBERGLASS	PTD	WOOD	E	CLEAR	NONE	1/4" CLEAR TEMPERED	NONE	-
003	TECH SERVICES	3'-0"	7'-0"	1 3/4"	2P-1G	WOOD	CLEAR	WOOD	B	CLEAR	NONE	" NONE "	NONE	-
004	DIR OFFICE	3'-0"	7'-0"	1 3/4"	2P-1G	WOOD	CLEAR	WOOD	B	CLEAR	NONE	" NONE "	NONE	-
005	STAIRS	3'-0"	7'-0"	1 3/4"	1P-2G	FIBERGLASS	PTD	WOOD	E	PTD	NONE	INSULATED	NONE	-
006	ENTRY	3'-0"	7'-0"	1 3/4"	FNV	WOOD	CLEAR	HM	D	PTD	NONE	1/4" CLEAR TEMPERED	NONE	-
007	UNISEX	3'-0"	7'-0"	1 3/4"	5P	WOOD	CLEAR	WOOD	B	CLEAR	NONE	" NONE "	NONE	-
103	MEETING	3'-0"	7'-0"	1 3/4"	FNV	WOOD	PTD	HM	A	PTD	1HR	WIRE	NONE	-
104	AV & EQUIP	3'-0"	7'-0"	1 3/4"	F	WOOD	PTD	HM	A	PTD	NONE	NONE	NONE	-
105	CLOSET	3'-0"	7'-0"	1 3/4"	F	WOOD	PTD	HM	A	PTD	NONE	NONE	NONE	-
106	KITCHENETTE	3'-0"	7'-0"	1 3/4"	FNV	WOOD	PTD	HM	A	PTD	NONE	WIRE	NONE	-
107	UNISEX	3'-0"	7'-0"	1 3/4"	F	WOOD	PTD	HM	A	PTD	1HR	NONE	NONE	-
108	VESTIBULE	3'-0"	7'-0"	1 3/4"	FNV	WOOD	CLEAR	HM	C	PTD	1HR	WIRE	NONE	-
109	ELEV EQUIP	3'-0"	7'-0"	1 3/4"	F	WOOD	PTD	HM	A	PTD	1HR	NONE WIRE	NONE	-
111	ENTRY	3'-0"	7'-0"	1 3/4"	1P-2G	FIBERGLASS	PTD	WOOD	E	PTD	NONE	" NONE "	NONE	-
112	AV	3'-0"	7'-0"	1 3/4"	F	WOOD	PTD	HM	A	PTD	NONE	NONE	NONE	-
113	MAGAZINE STORAGE	3'-0"	6'-8"	1 3/4"	FNV	WOOD	PTD	HM	A	PTD	NONE	1/4" CLEAR TEMPERED	NONE	-
114	ELEC/MECH	3'-0"	7'-0"	1 3/4"	F	WOOD	PTD	HM	A	PTD	1HR	NONE	NONE	-
115	STORY / PROGRAM	3'-0"	7'-0"	1 3/4"	1G	WOOD	CLEAR	HM	A	PTD	NONE	1/4" CLEAR TEMPERED	NONE	-
117	STAIRS	3'-0"	7'-0"	1 3/4"	F	WOOD	CLEAR	HM	A	PTD	1HR	NONE	NONE	-
118	STAIRS	3'-0"	7'-0"	1 3/4"	1P-2G	FIBERGLASS	PTD	WOOD	D	PTD	NONE	INSULATED	NONE	-

No use outside door/bottom

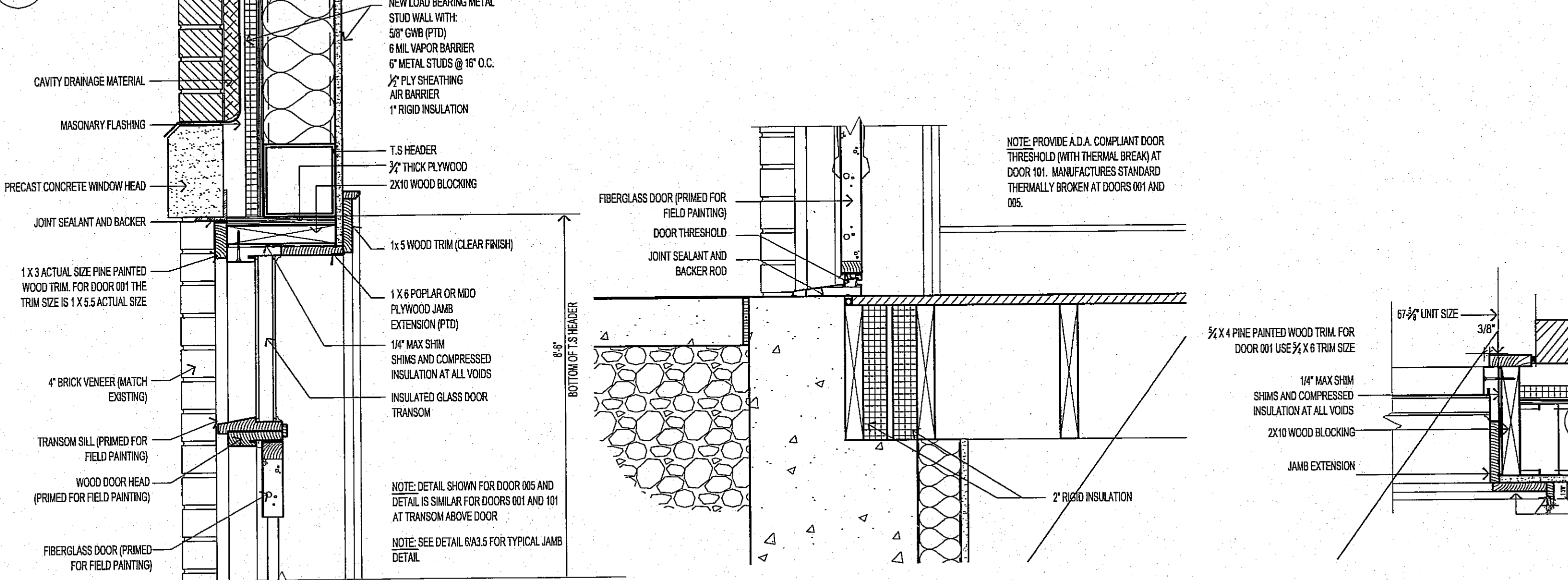
1 DOOR SCHEDULE
NTS



2 DOOR TYPES
1/4" = 1'-0"



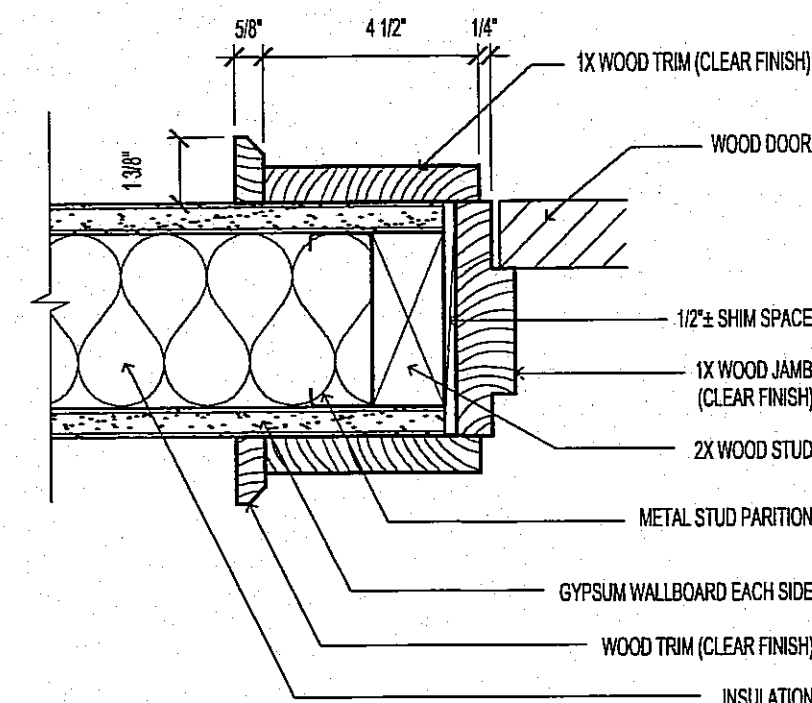
3 DOOR FRAMES
1/4" = 1'-0"



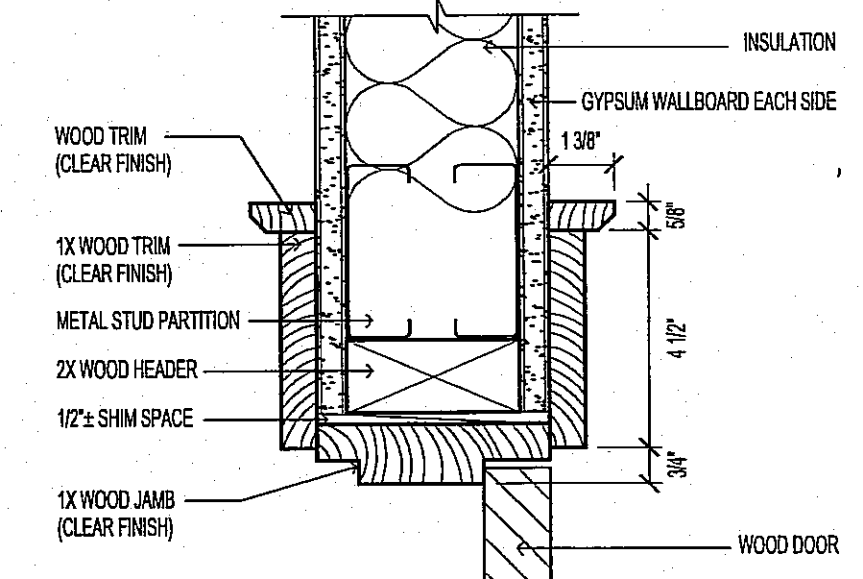
4 EXTERIOR DOOR HEAD (TYP)
1 1/2" = 1'-0"

5 EXTERIOR DOOR SILL
1 1/2" = 1'-0"

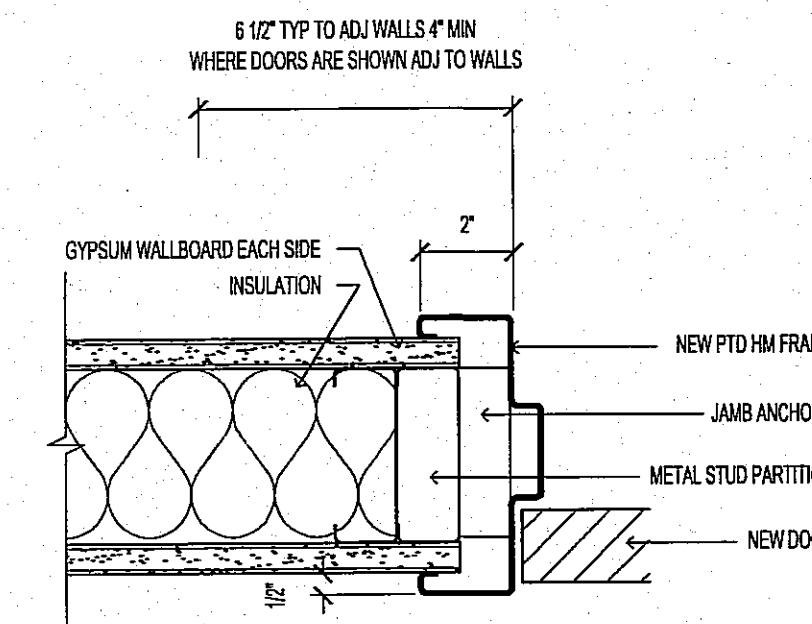
6 EXTERIOR DOOR JAMB
1 1/2" = 1'-0"



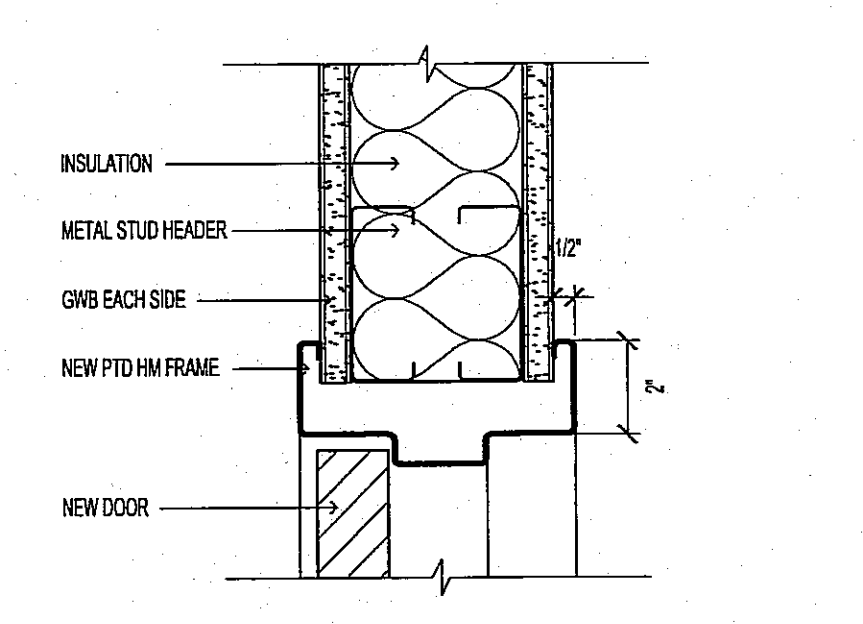
7 TYP WOOD DOOR JAMB
3" = 1'-0"



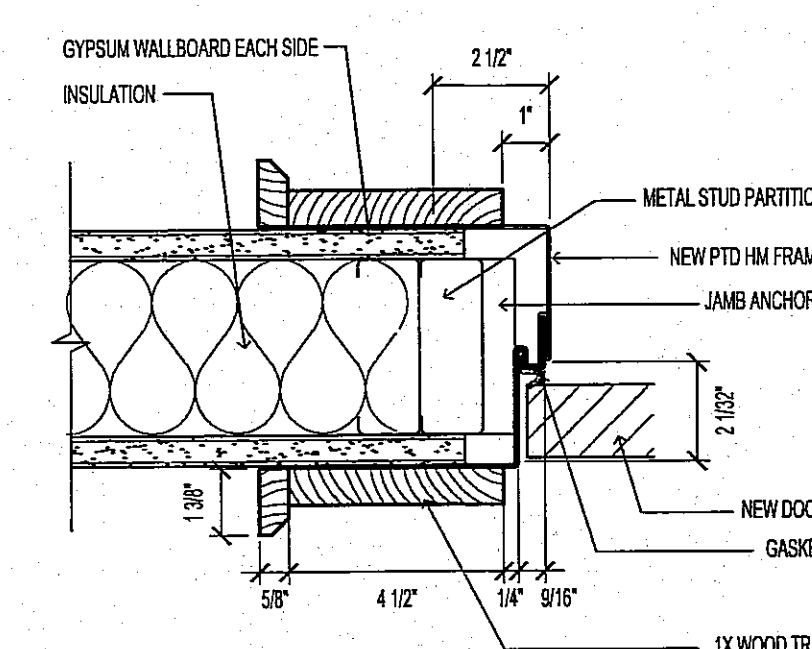
8 TYP WOOD DOOR HEAD
3" = 1'-0"



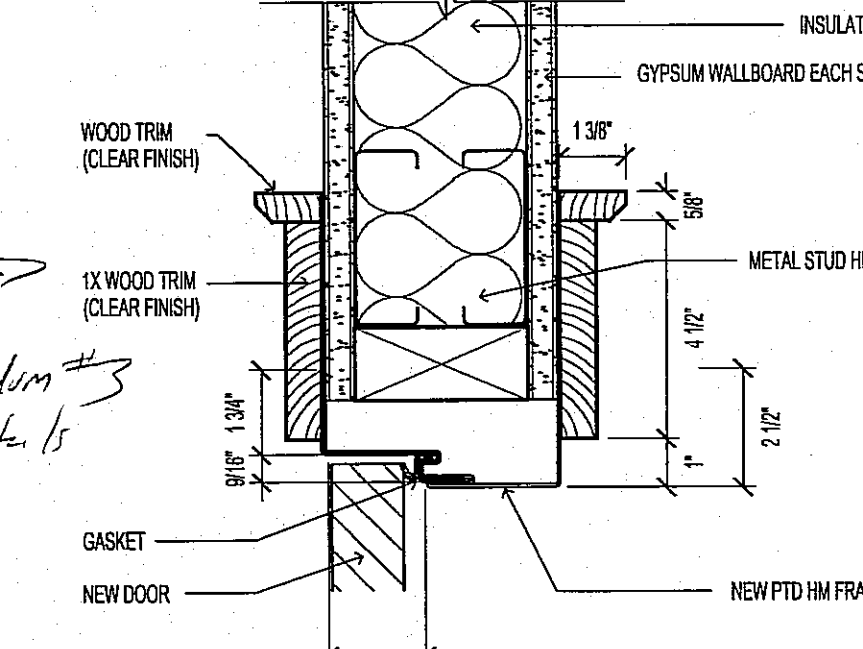
9 TYP HM DOOR JAMB
3" = 1'-0"



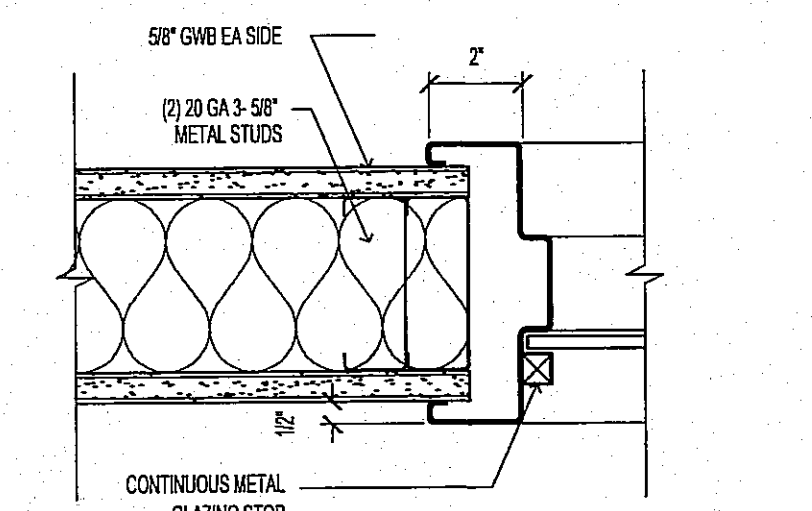
10 TYP HM DOOR HEAD
3" = 1'-0"



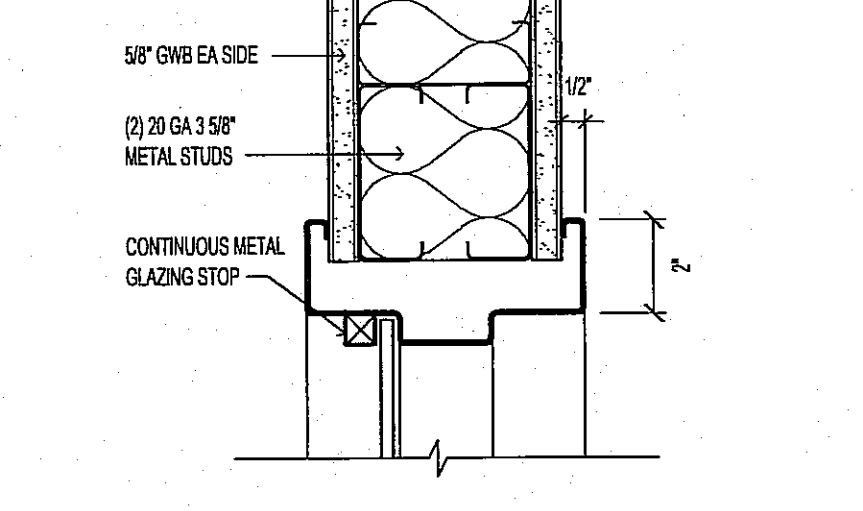
11 TYP SPLIT HM DOOR JAMB
3" = 1'-0"



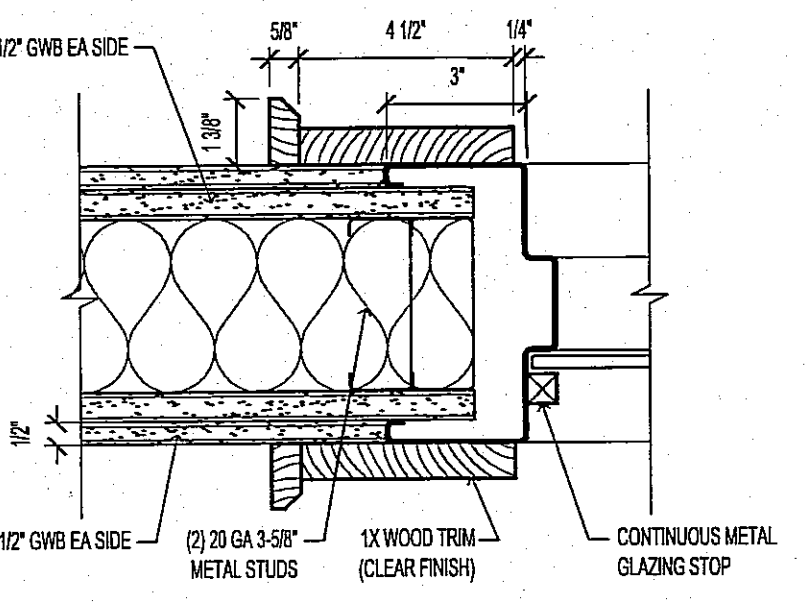
12 TYP SPLIT HM DOOR HEAD
3" = 1'-0"



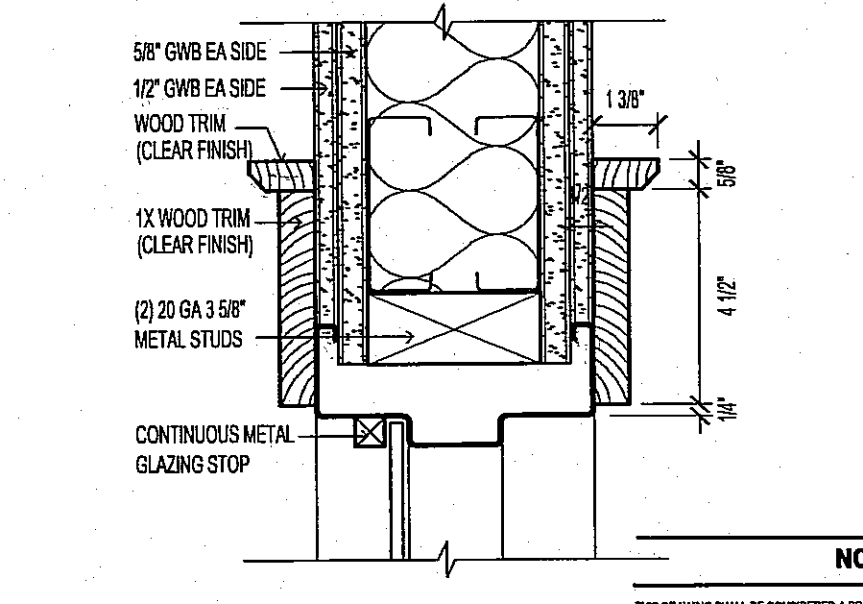
13 TYP HM SIDE LITE JAMB
3" = 1'-0"



14 TYP HM SIDE LITE HEAD
3" = 1'-0"



15 TYP HM SIDE LITE JAMB
3" = 1'-0"



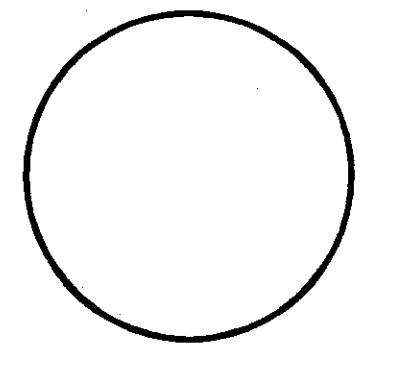
16 TYP HM SIDE LITE HEAD
3" = 1'-0"

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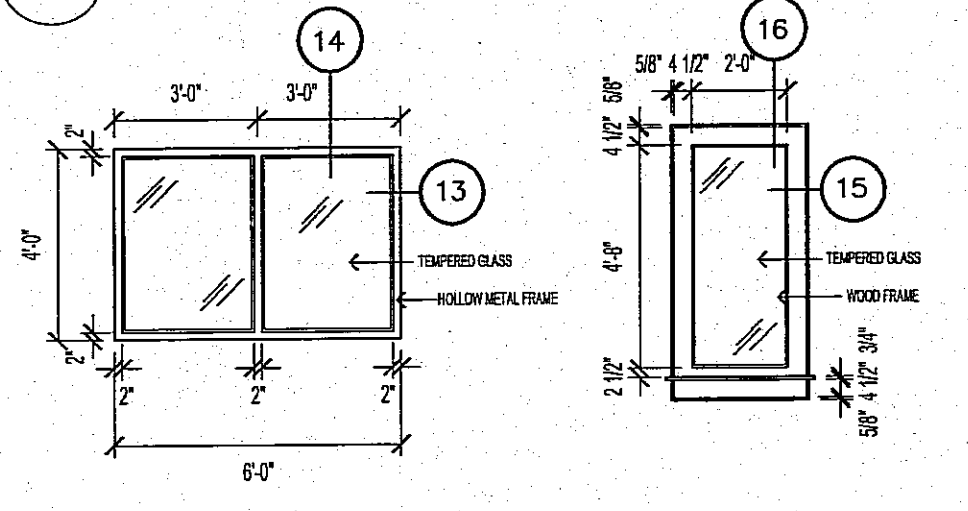
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DOOR SCHEDULE AND DETAILS

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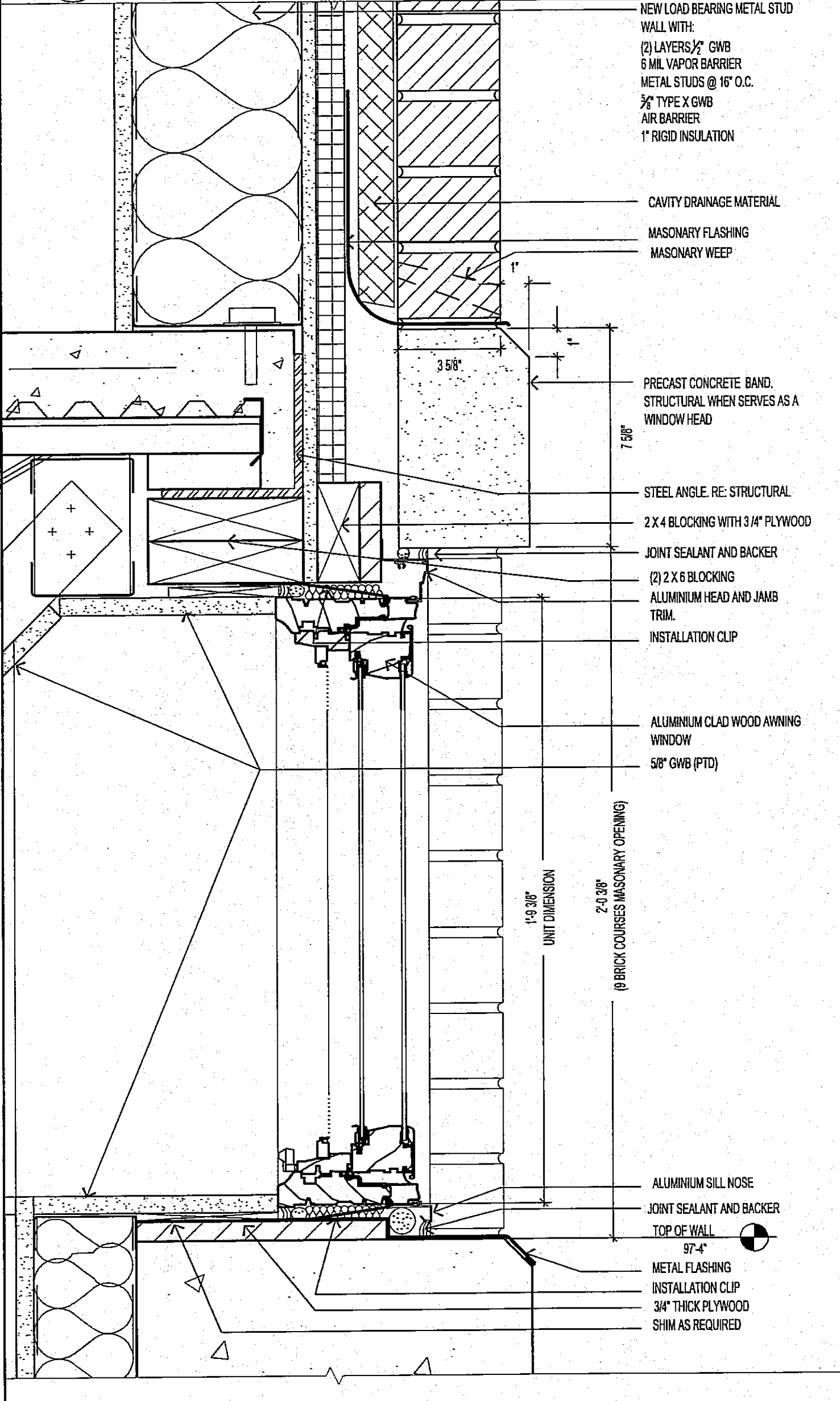


WINDOW SCHEDULE										
MARK UP IN PLAN	COUNT (GC VERIFY)	TYPE	MASONRY OPENING WIDTH	MASONRY OPENING HEIGHT (NO OF BRICK COURSES)	UNIT FRAME WIDTH	UNIT FRAME HEIGHT	SASH FRAME EXTERIOR/INTERIOR	GLAZING	NOTES	
									INSULATED GLASS	
E	17	DOUBLE HUNG (SINGLE)	2'-9"	23	2'-5"	4'-11"	ALUM CLAD/ CLEAR WOOD	INSULATED GLASS		
F	10	DOUBLE HUNG (SINGLE)	3'-0"	23	2'-9"	4'-11"	ALUM CLAD/ CLEAR WOOD	INSULATED GLASS		
G	2	DOUBLE HUNG (SINGLE)	3'-4"	28	3'-1"	5'-11"	ALUM CLAD/ CLEAR WOOD	INSULATED GLASS		
C	4	DOUBLE HUNG (SINGLE)	2'-8"	SEE DETAIL 9	2'-5"	4'-5"	ALUM CLAD/ CLEAR WOOD	INSULATED GLASS		
D	2	DOUBLE HUNG (SINGLE)	3'-0"	SEE DETAIL 9	2'-9"	4'-5"	ALUM CLAD/ CLEAR WOOD	INSULATED GLASS		
H	3	AWNING (SINGLE)	3'-0"	9	2'-9"	1'-9"	ALUM CLAD/ CLEAR WOOD	INSULATED GLASS		
B	4	AWNING (SINGLE)	2'-10"	9	2'-7"	1'-9"	ALUM CLAD/ CLEAR WOOD	INSULATED GLASS		
A	13	AWNING (SINGLE)	2'-8"	9	2'-5"	1'-9"	ALUM CLAD/ CLEAR WOOD	INSULATED GLASS		
NOTES: 1. FOR ALL EXTERIOR WINDOW HEAD HEIGHTS, SEE DETAILS 2. ALL MASONRY OPENINGS TO BE VERIFIED WITH FLOOR PLANS (A-2 SERIES) AND SECTIONS (A-3 SERIES)										
INTERIOR WINDOWS										
AA	1	FIXED (SINGLE)	SEE WINDOW TYPES ELEVATIONS FOR ALL DIMENSION DETAILS				HOLLOW METAL FRAME	1/4" CLEAR TEMPERED		
BB	1	FIXED (SINGLE)	SEE WINDOW TYPES ELEVATIONS FOR ALL DIMENSION DETAILS				CLEAR WOOD FRAME	1/4" CLEAR TEMPERED		
MATCH FRAME HEAD HEIGHT OF ALL INTERIOR WINDOWS WITH INTERIOR DOOR FRAME HEAD HEIGHT										

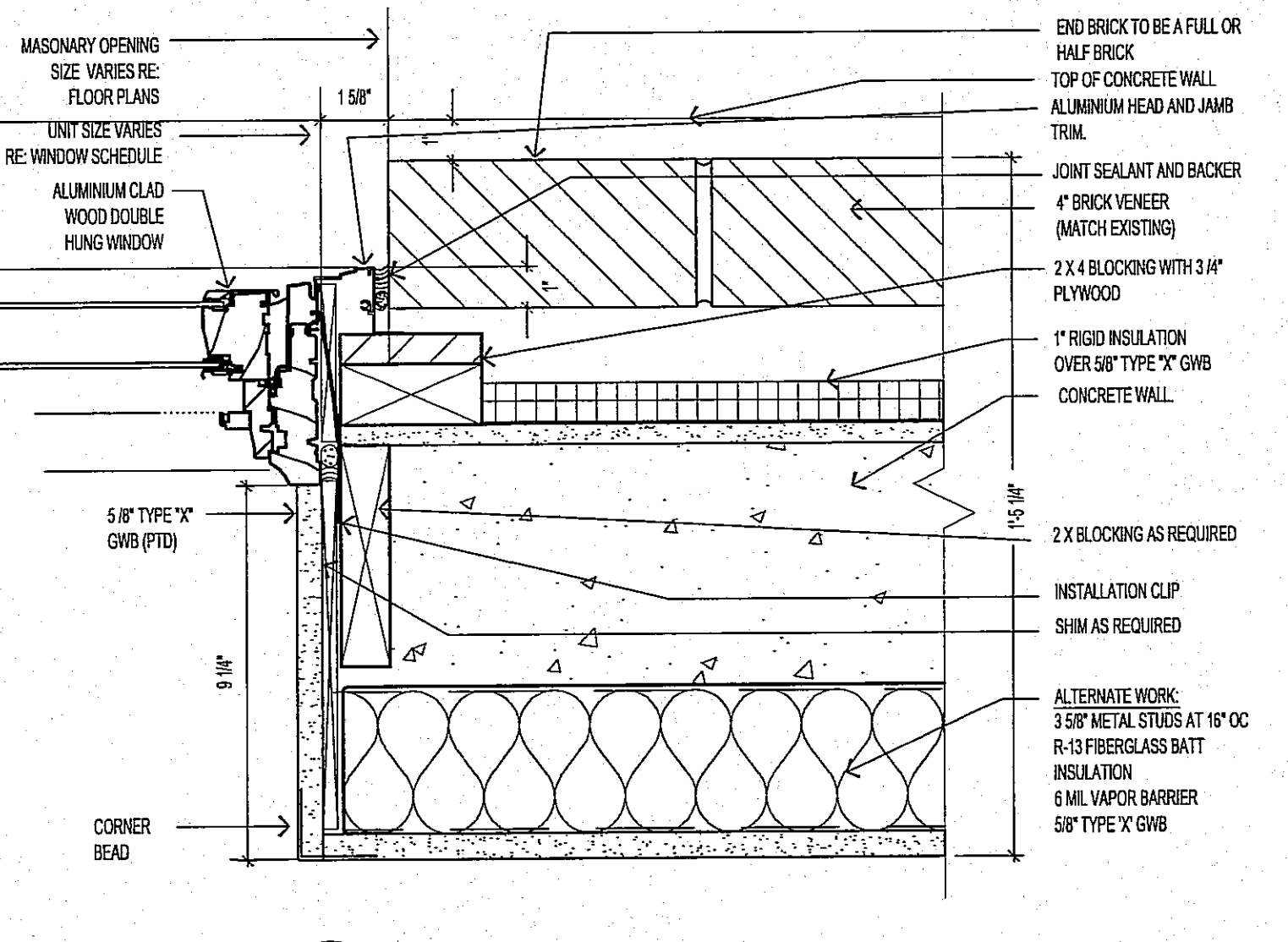
1 WINDOW SCHEDULE
NTS



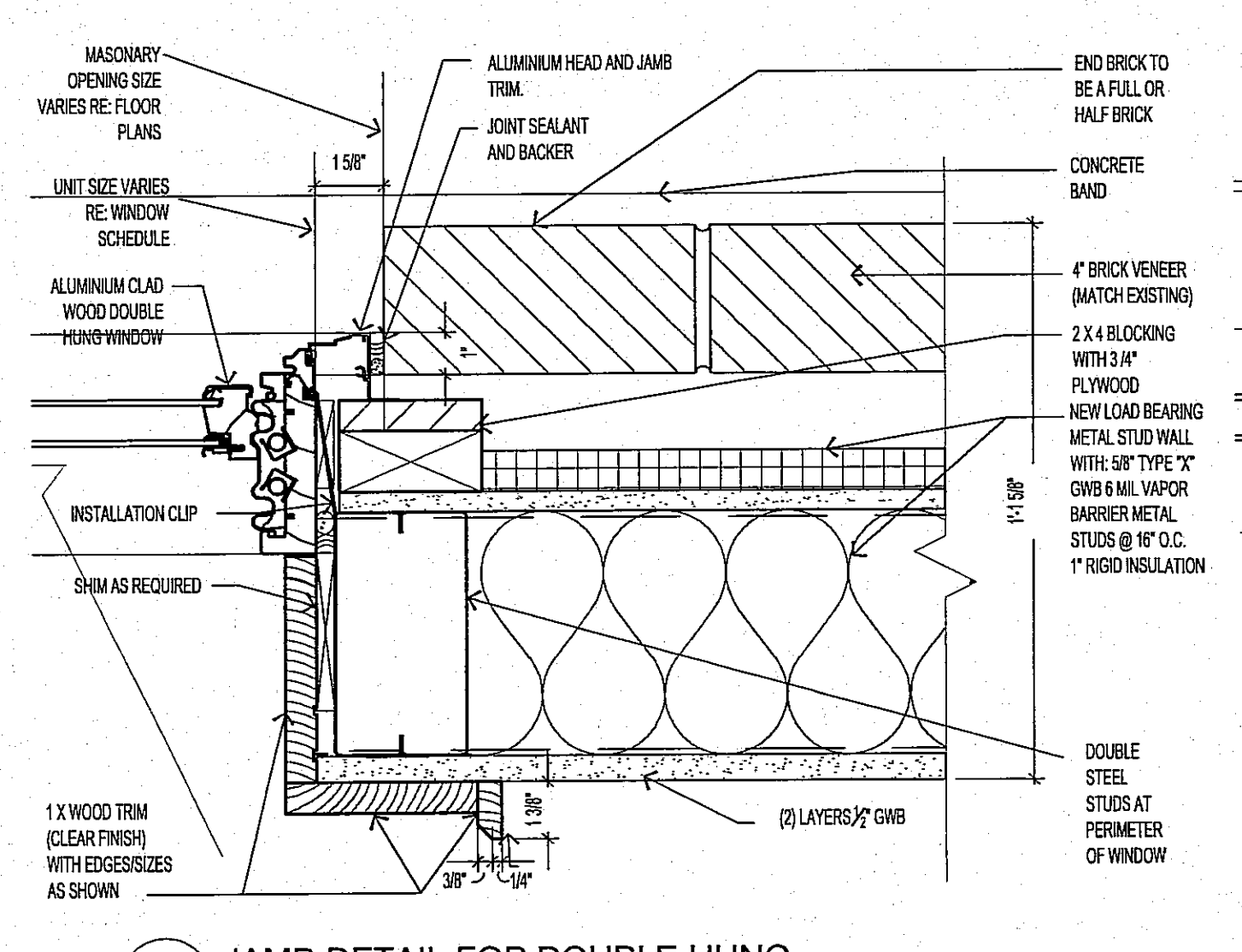
2 INTERIOR WINDOW TYPES
1/4" = 1'-0"



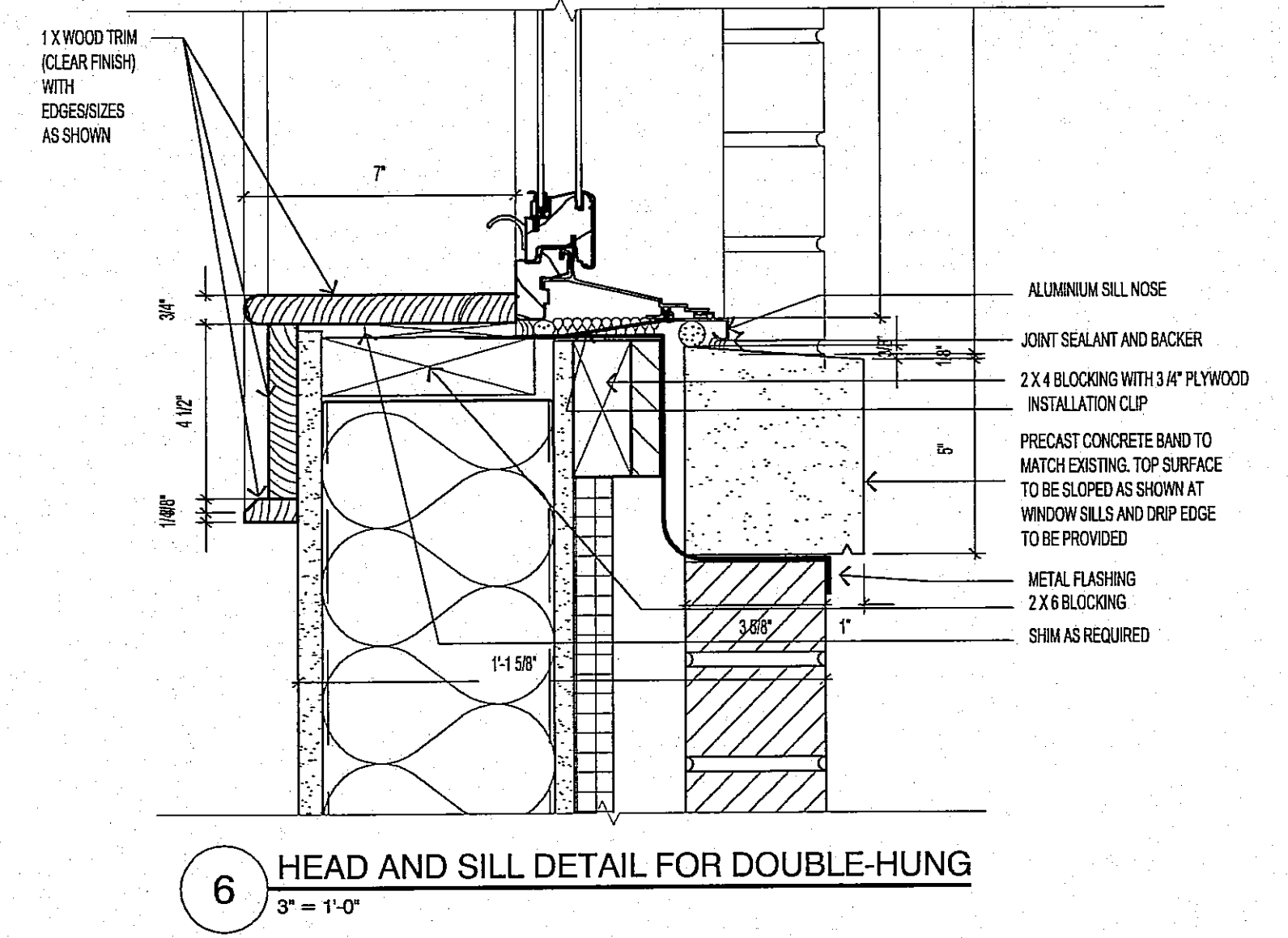
3 HEAD AND SILL DETAIL FOR AWNING
3" = 1'-0"



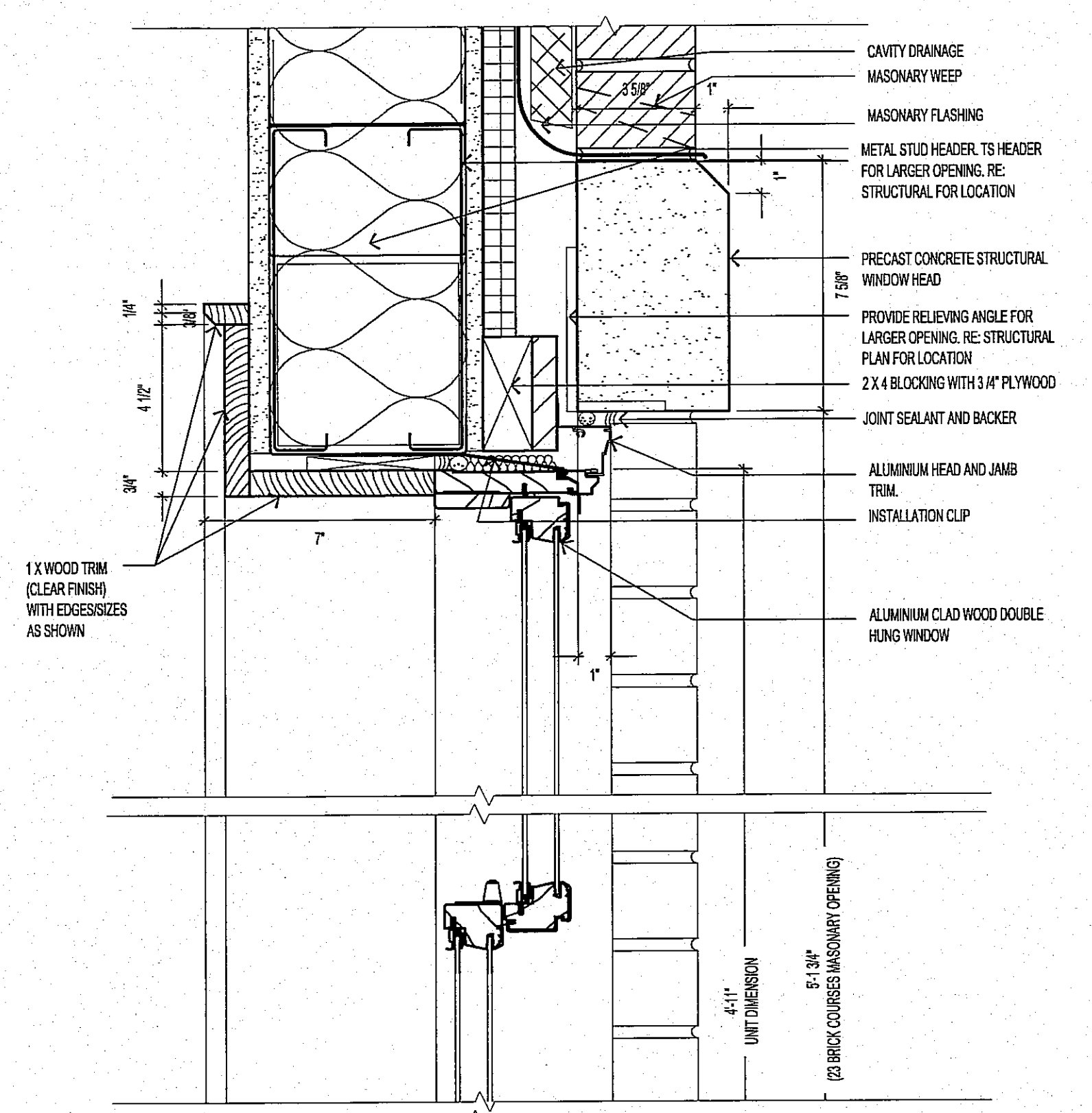
4 JAMB DETAIL FOR AWNING
3" = 1'-0"



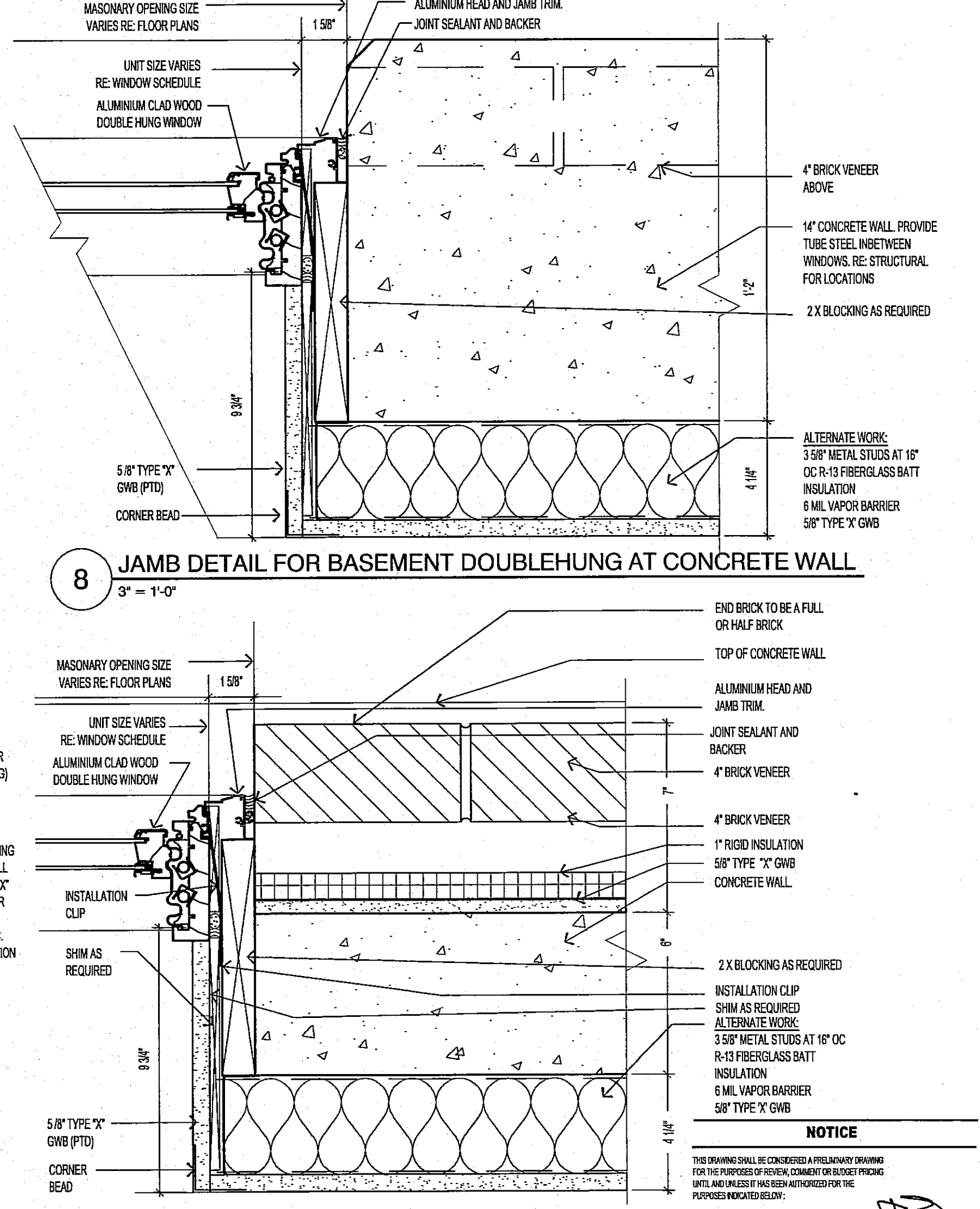
5 JAMB DETAIL FOR DOUBLE-HUNG
3" = 1'-0"



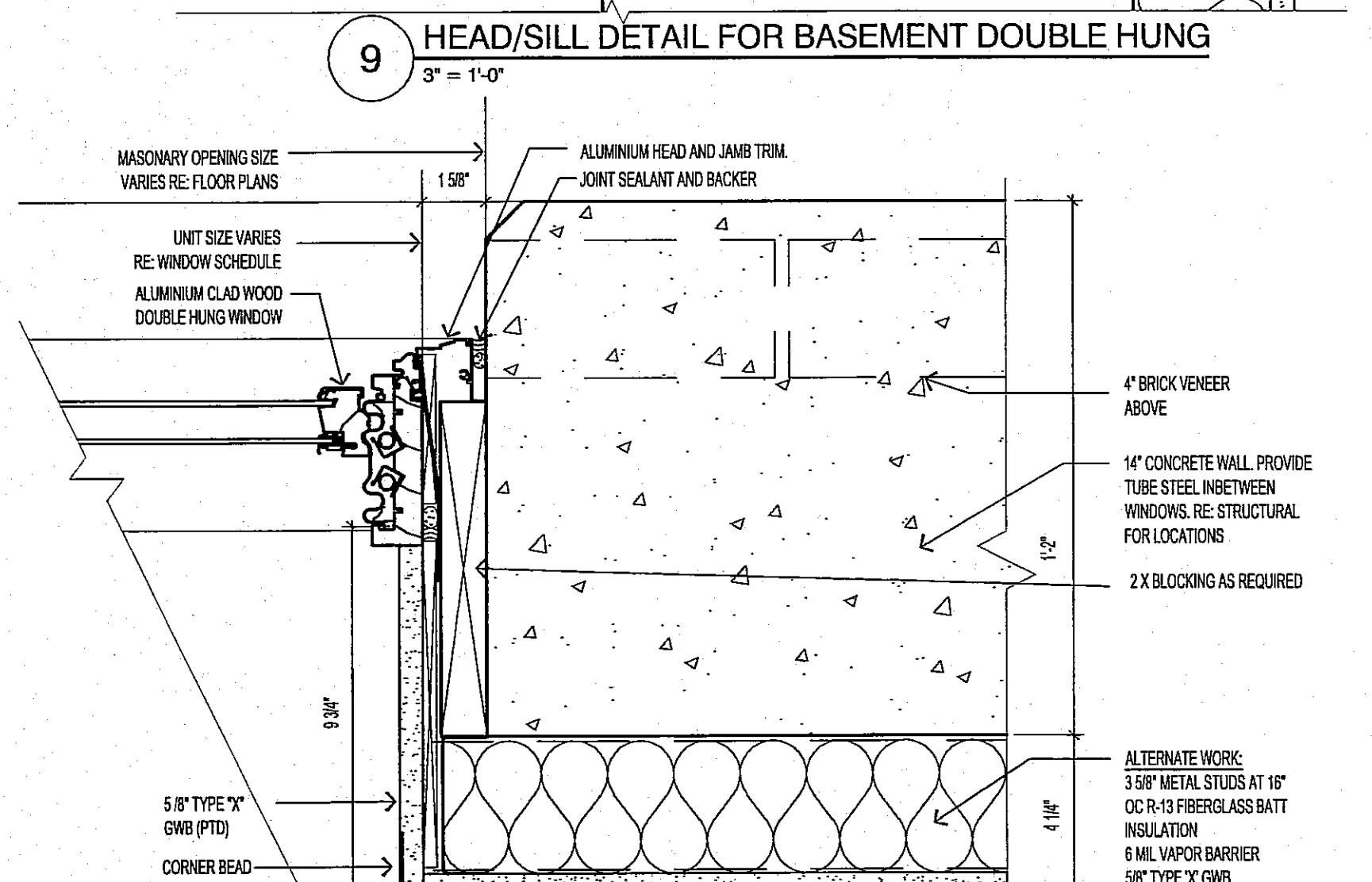
6 HEAD AND SILL DETAIL FOR DOUBLE-HUNG
3" = 1'-0"



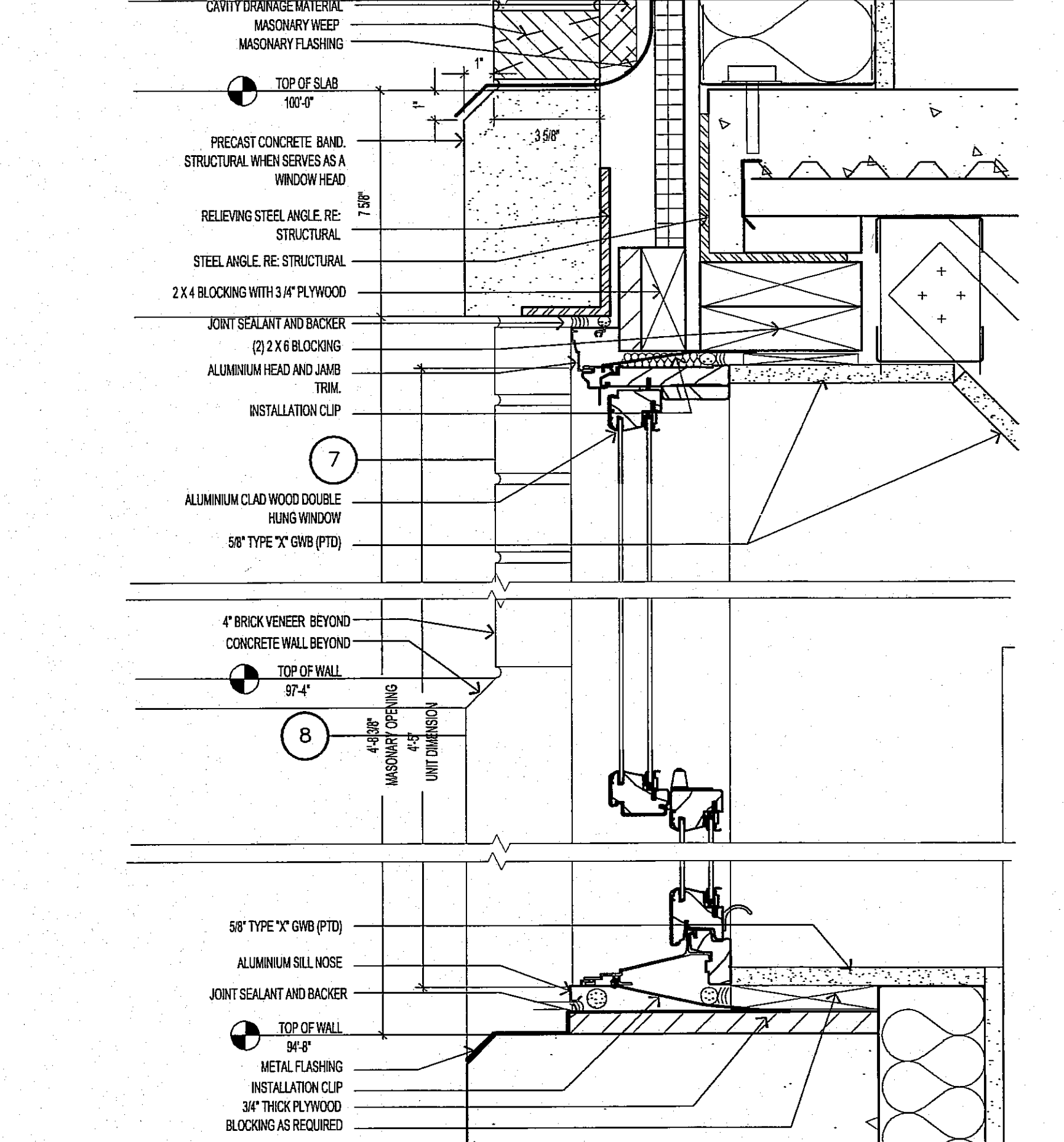
7 JAMB DETAIL FOR BASEMENT DOUBLEHUNG
3" = 1'-0"



8 JAMB DETAIL FOR BASEMENT DOUBLEHUNG AT CONCRETE WALL
3" = 1'-0"



9 HEAD/SILL DETAIL FOR BASEMENT DOUBLE HUNG
3" = 1'-0"



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PROJECT ARCHITECT
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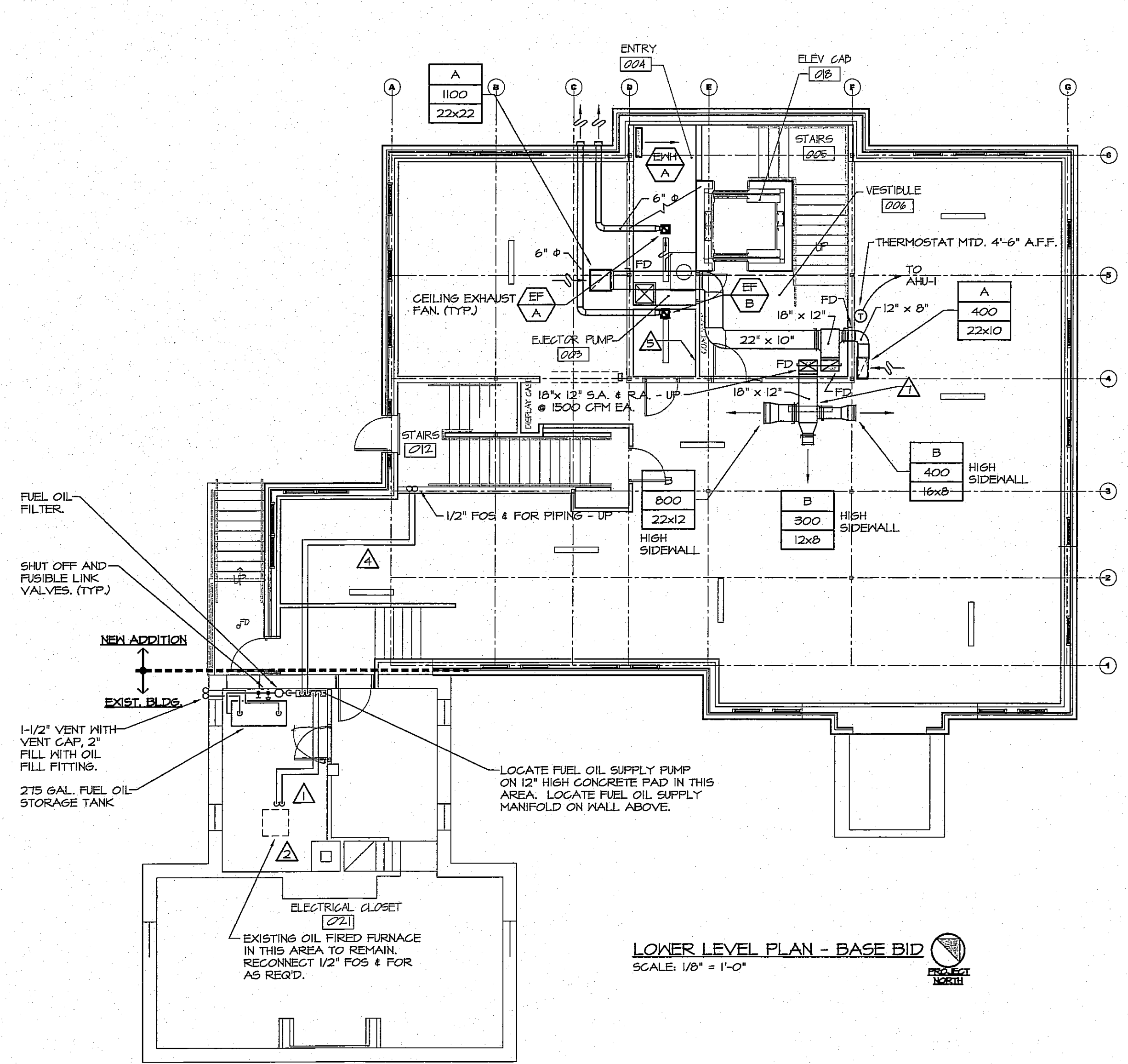
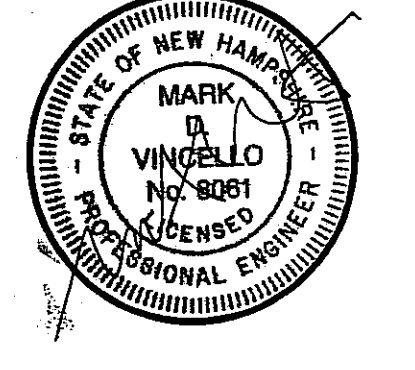
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AS SHOWN
SCALE
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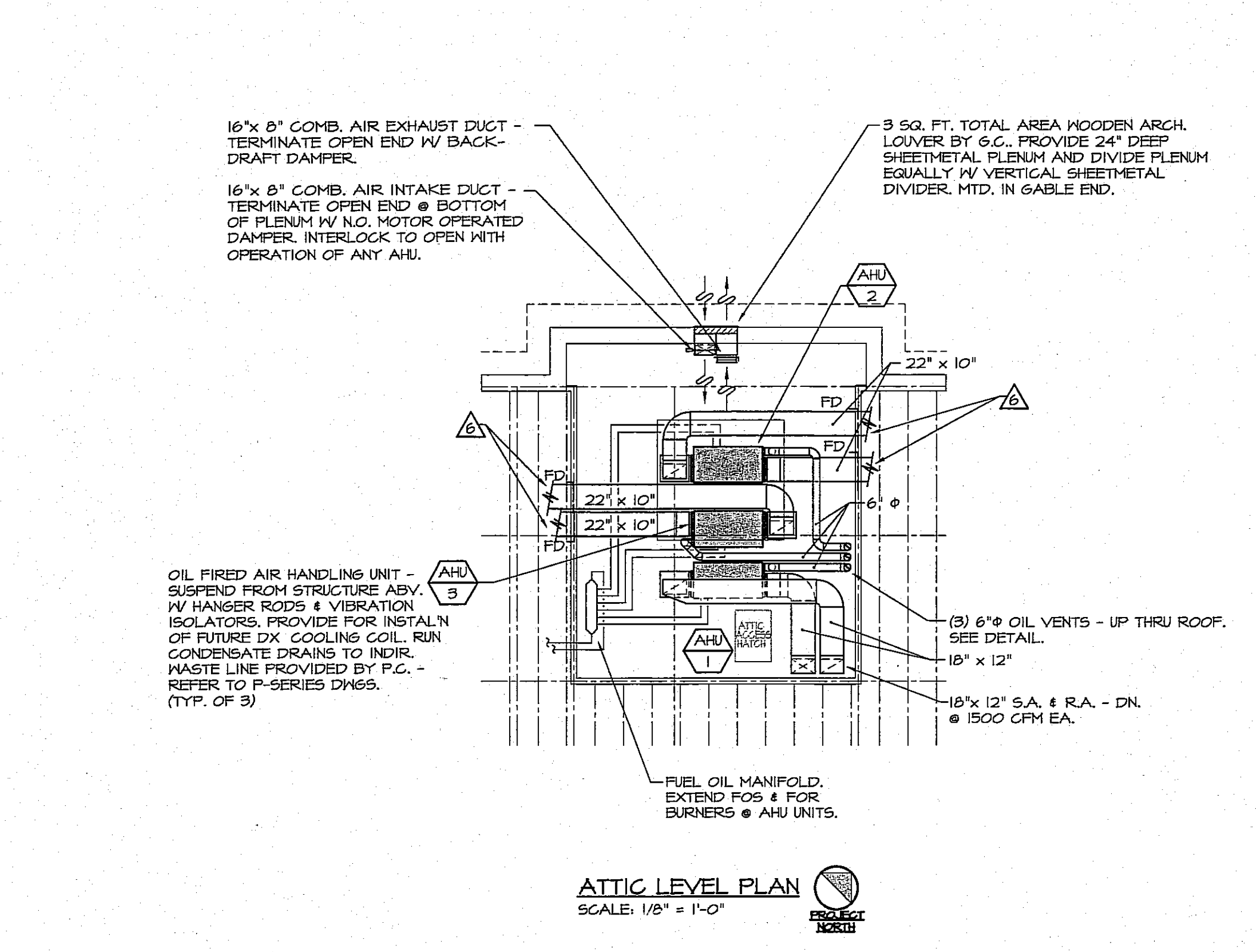
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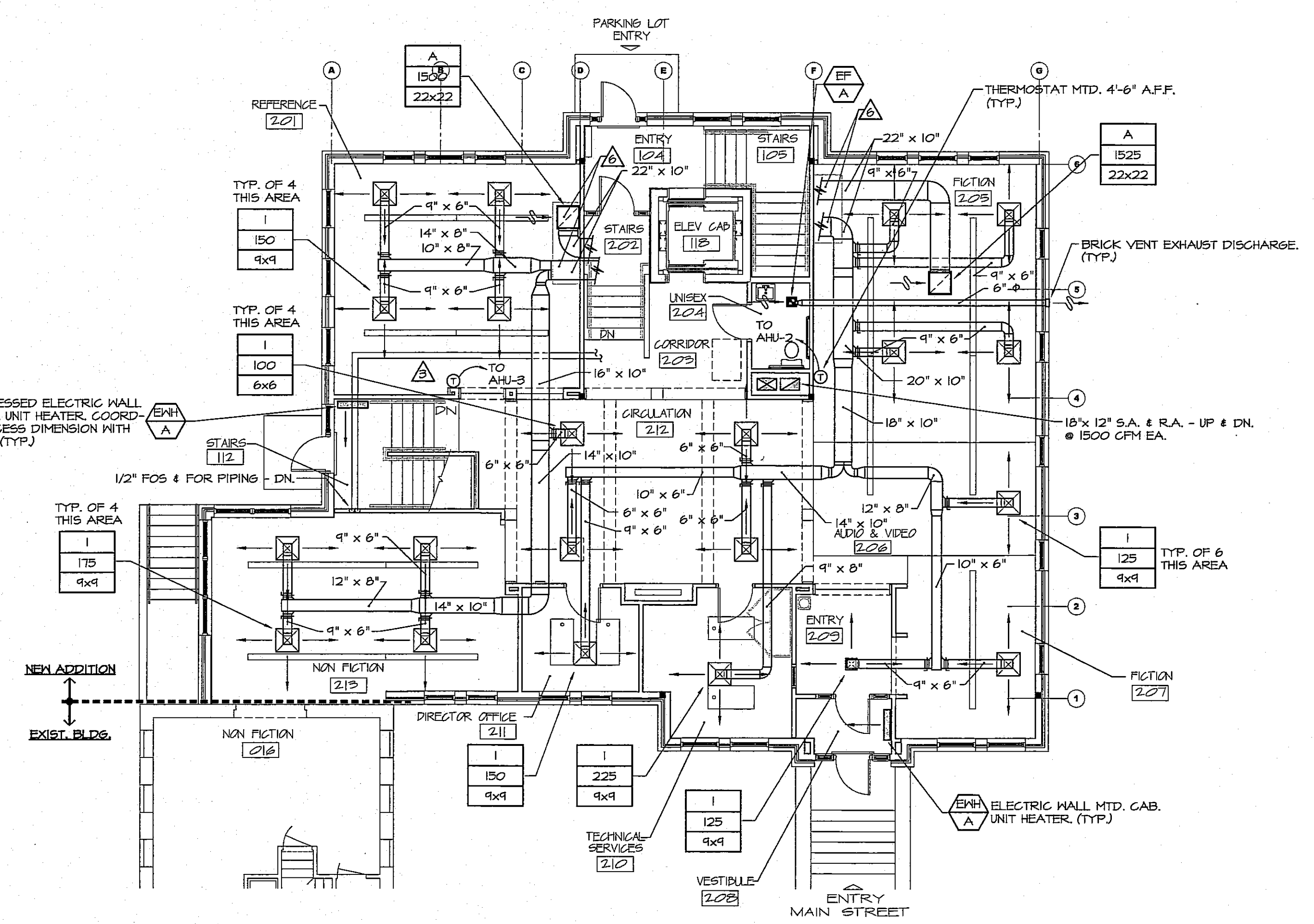
PROJECT ENGINEER
DCD



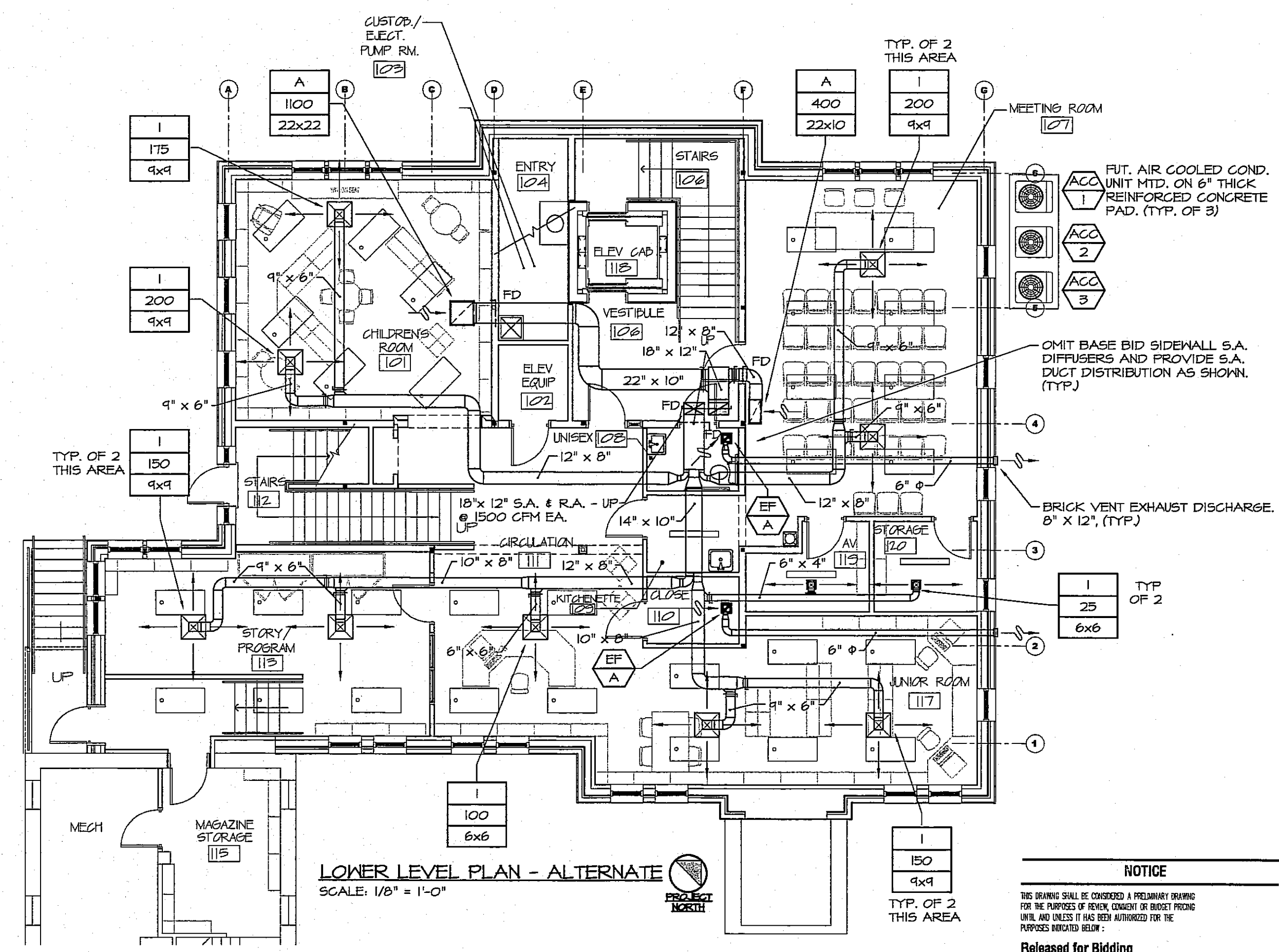
LOWER LEVEL PLAN - BASE BID
SCALE: 1/8" = 1'-0"



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



UPPER LEVEL PLAN
SCALE: 1/8" = 1'-0"



LOWER LEVEL PLAN - ALTERNATE
SCALE: 1/8" = 1'-0"

- DRAWING NOTES (APPLY TO ALL M-SERIES DWGS):**
- ▲ REMOVE EXIST'G SA AND RA DUCT AND ASSOC. REGISTERS, DIFFUSERS, HANGERS AND ACCESS. SERVING PORTION OF BUILDING TO BE DEMOLISHED COMPLETELY. CAP AND SEAL CONNECTIONS AT EXIST'G OIL-FIRED FURNACE TO MAINTAIN EXIST'G CFM QUANTITIES.
 - ▲ EXIST'G DUCT SYSTEM SERVING PORTIONS OF ORIGINAL BLDGS TO REMAIN. ADJUST DELIVERY OF EXIST'G FURNACE TO MAINTAIN EXIST'G CFM QUANTITIES.
 - ▲ LOCATE ALL PIPING OVER AREAS OF CIRCULATION, MINIMUM 3'-0" AWAY FROM WALLS.
 - ▲ REMOVE EXIST'G 275 VERTICAL FUEL OIL STORAGE TANK, PIPING AND ACCESS, COMPLETELY FROM CRAWL SPACE BELOW PORTION OF BUILDING TO BE DEMOLISHED. DISPOSE OF LEGALLY.
 - ▲ PROVIDE 12" x 10" TRANSFER GRILLE, DUCT FULL SIZE OF GRILLE, MOTORIZED DAMPER, AND FIRE DAMPER LOW ON WALL, BOTTOM OF FRAME 6" AFF. INTERLOCK OPERATION OF MOD WITH EXHAUST FAN SERVING THIS SPACE.
 - ▲ EXTEND DUCTS OUT OF ATTIC AND INTO UPPER LEVEL CEILING SPACE THROUGH INSULATED SOFFIT PROVIDED BY G.C. IN ATTIC, OFFSET AS REQ'D AND COORDINATE WITH ROOF TRUSSES AND G.C.
 - ▲ PAINT DUCT TO MATCH INTERIOR FINISH. COLOR SELECTED BY OWNER'S REPRESENTATIVE.

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SCHEDULES AND DETAILS

AS SHOWN
SCALE

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STATE OF NEW HAMPSHIRE
MARK VINELLO
NOV 6 2001
LICENSED PROFESSIONAL ENGINEER

AIR HANDLING UNIT SCHEDULE - DX/OIL

UNIT NO.	LOCATION	SERVICE	CFM STD AIR	MIN O.A. CFM	S.P. IN PLG.		O.V. FPM	FAN RPM	FAN NO. AND MIN. DIA.	COOLING COIL (ALTERNATE)					HEATING COIL					DESIGN EQUIPMENT								
					EXT	TOTAL				E.A.T.	L.A.T.	TOTAL TONS	FACE VEL FPM	ROUNDS & CIRCUITS	EAT °F	LAT °F	MINIMUM OUTPUT MBH	OIL FIR. RATE GPH	TYPE OF OIL		FLUE CORR. SIZE AND NUMBER							
AHU-1	ATTIC	LOWER LEVEL	1500	0	0.6	1.1	513	---	FC1X10	1750	1/2	240	1	C. MAG.	78.3	64.4	55.0	54.8	4	450	---	50	100	41.0	1.0	NO. 2	1 @ 6"	YORK "PDHX16FI2001"
AHU-2	ATTIC	UPPER LEVEL	1550	0	0.6	1.1	530	---	FC1X10	1750	1/2	240	1	C. MAG.	76.8	63.5	55.0	54.8	4	450	---	66	100	60.0	1.0	NO. 2	1 @ 6"	YORK "PDHX16FI2001"
AHU-3	ATTIC	UPPER LEVEL	1500	0	0.6	1.1	513	---	FC1X10	1750	1/2	240	1	C. MAG.	71.5	63.9	55.0	54.8	4	450	---	62	100	78.0	1.0	NO. 2	1 @ 6"	YORK "PDHX16FI2001"

FAN SCHEDULE

UNIT NO.	LOCATION	SERVICE	TYPE	CFM	S.P.	FAN DIA.	BLADE TYPE	FAN RPM	TIP SPEED (FPM)	OUTLET VEL (FPM)	DRIVE	ROTATION	CONTROL	MOTOR					DESIGN EQUIPMENT								
														RPM	HP	VOLTS	PHASE	STARTER		PILOT LIGHT							
EF-A	AS SHOWN	AS SHOWN	CEILING	75	0.2	---	CENT.	1050	---	---	DIR	---	---	1080	.009	120	1	---	---	---	---	---	---	---	---	---	COOK GC-220
EF-B	AS SHOWN	AS SHOWN	CEILING	225	0.2	---	CENT.	1145	---	---	DIR	---	---	1145	.009	120	1	---	---	---	---	---	---	---	---	---	COOK GC-420

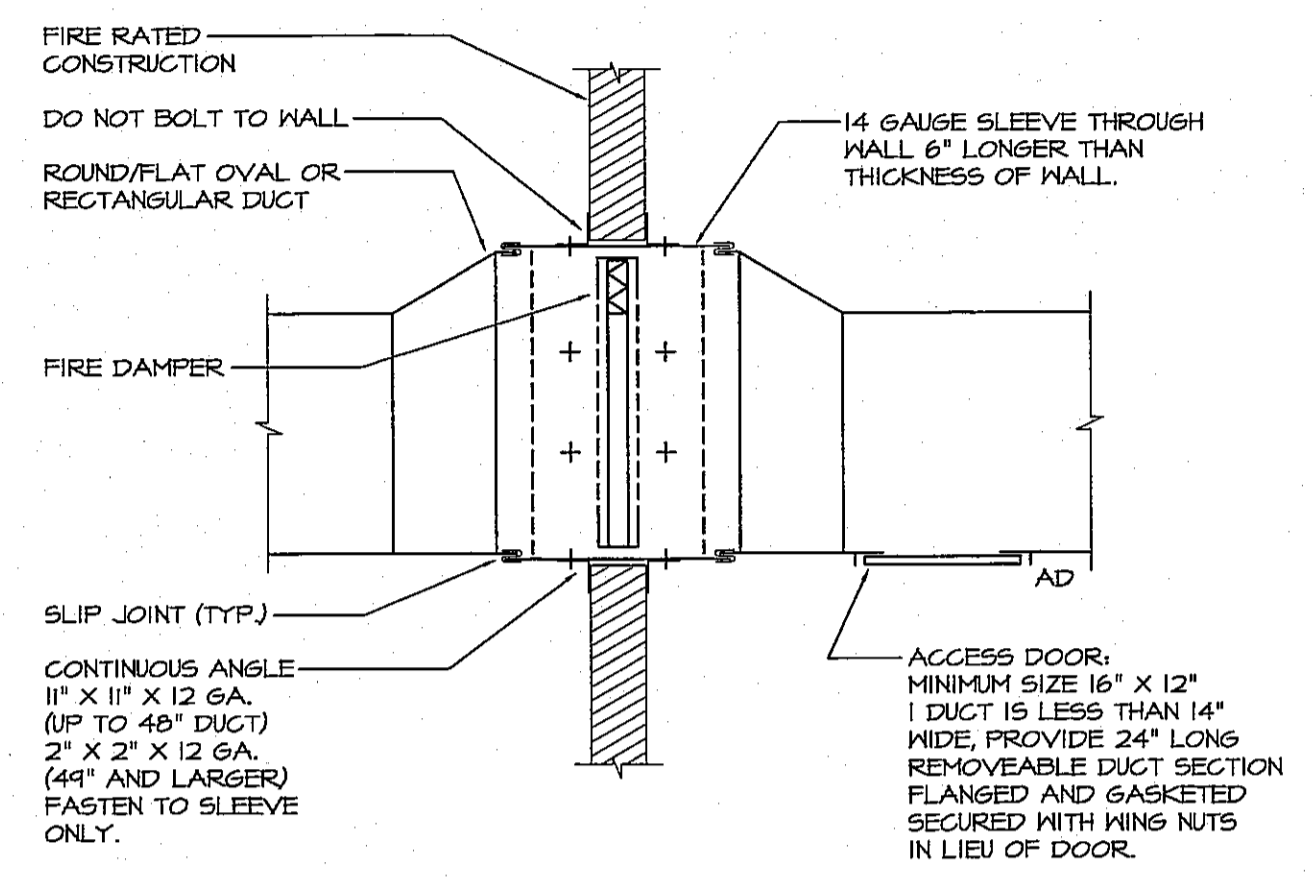
AIR COOLED CONDENSER SCHEDULE 45° F AMBIENT AIR (ALTERNATE)

UNIT NO.	LOCATION	SERVICE	CAPACITY TONS	CONDENSER			COMPRESSOR			DESIGN EQUIPMENT			
				NO. OF FANS	RPM	HP	VOLTS	PHASE	NO. OF STAGES		KW *	VOLTS	PHASE
ACC-1	AS SHOWN	AHU-1	4	1	850	1/4	240	1	2	4.9	240	1	YORK HITCO48506
ACC-2	AS SHOWN	AHU-2	4	1	850	1/4	240	1	2	4.9	240	1	YORK HITCO48506
ACC-3	AS SHOWN	AHU-3	4	1	850	1/4	240	1	2	4.9	240	1	YORK HITCO48506

* SYSTEM KW

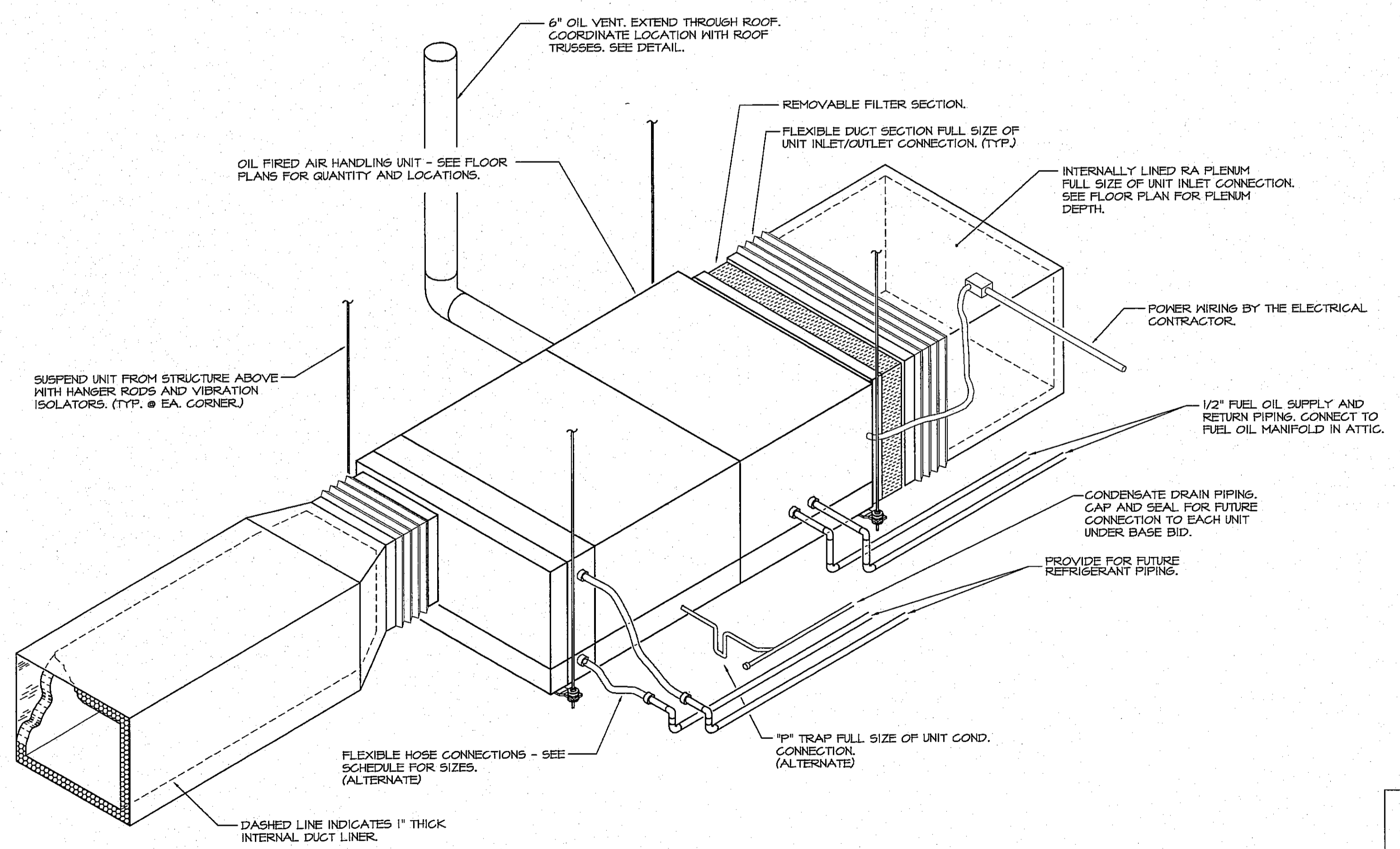
UNIT HEATER SCHEDULE - ELECTRIC

TYPE	LOCATION	SERVICE	TYPE	CFM	MBH	KWH	VOLTS	PHASE	E.A.T. °F	L.A.T. °F	FAN MOTOR			DESIGN EQUIPMENT	
											RPM	HP	VOLTS		PHASE
EHX-A	AS SHOWN	SPACE HEAT	HALL	250	10.2	3.0	240	1	60	98	1550	1/8	120	1	G-MARK GU435

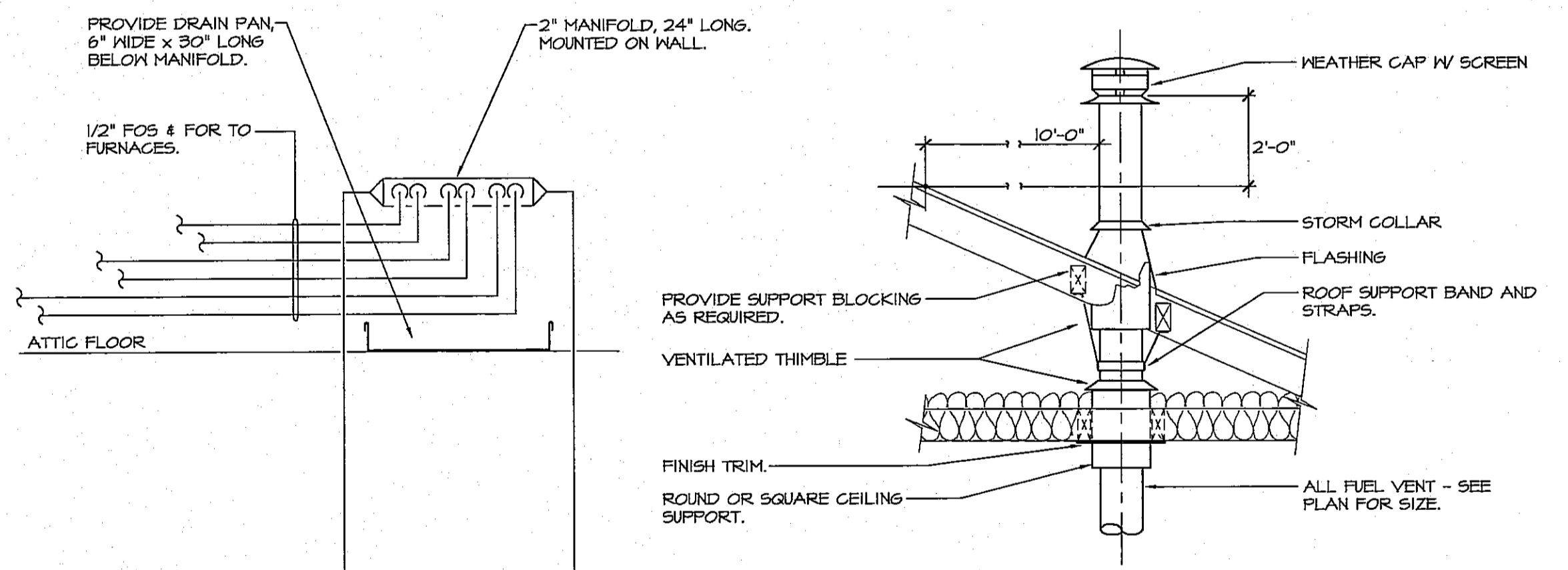


FIRE DAMPER INSTALLATION DETAIL
NO SCALE DUCT VELOCITIES UP TO 2000 FPM

- NOTES:
- HORIZONTAL DAMPER INSTALLATION SIMILAR.
 - FOR DOUBLE WALL DUCT, USE INSULATION END CAP AND INSULATE SLEEVE.
 - MAINTAIN FREE AREA OF DUCTS CALLED FOR ON PLANS THROUGH F.P.D. PROVIDE TRANSITIONS AS REQUIRED.

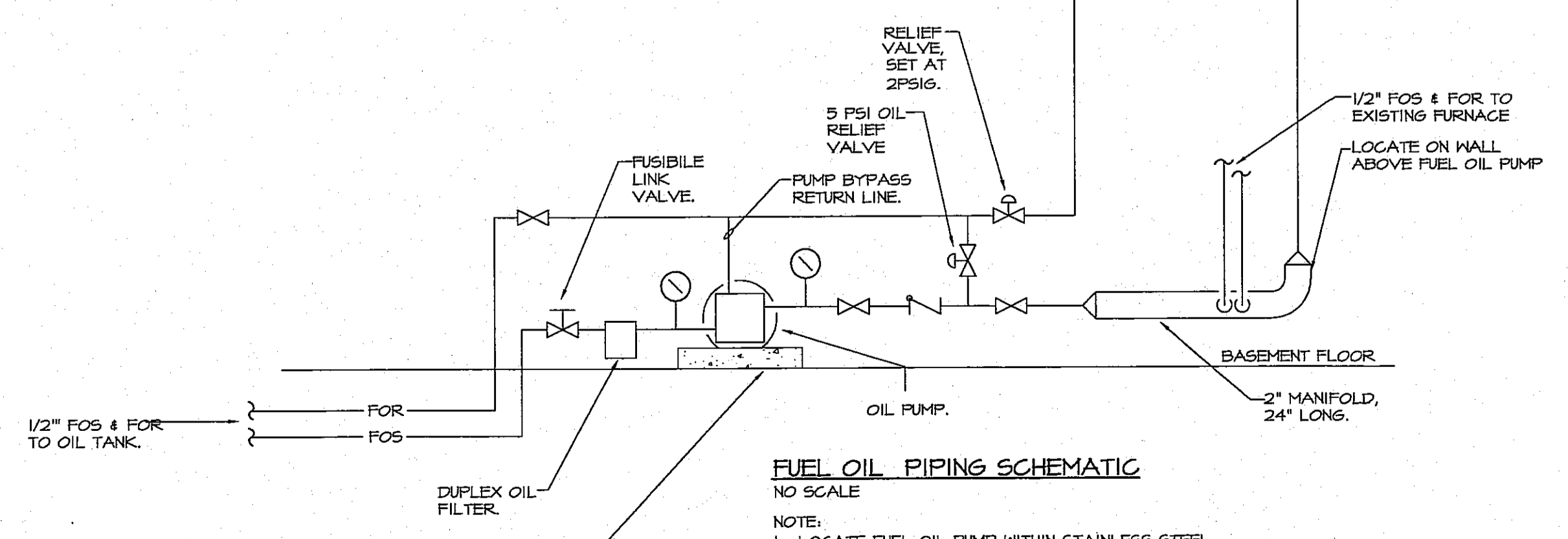


OIL FIRED AIR HANDLING UNIT DETAIL
NO SCALE



OIL VENT TERMINATION DETAIL
NOT TO SCALE

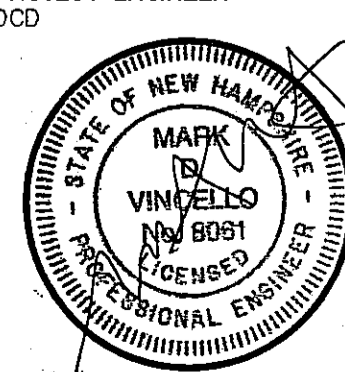
- NOTES:
- MINIMUM HEIGHT ABOVE ANY ROOF TO WEATHER CAP IS 2'-0".
 - INSTALLATION TYPICAL FOR FLAT ROOF CONSTRUCTION.
 - PROVIDE ROOF OPENING, FRAMING, AND LOCATION, SETTING AND SECURING OF FLASHING.
 - PROVIDE STRUT SUPPORTS, IN THREE DIRECTIONS BETWEEN VENT PIPING AND ROOF STRUCTURE FOR VENTS EXTENDING OVER 6'-0" ABOVE ROOF.



FUEL OIL PIPING SCHEMATIC
NO SCALE

- NOTE:
- LOCATE FUEL OIL PUMP WITHIN STAINLESS STEEL 24" X 24" PAN, WITH 2" HIGH SIDES, WELDED LEAKTIGHT, (TYP FOR ATTIC PLAN). FINAL SIZE TO SUIT DIMENSIONS OF OIL PUMP.

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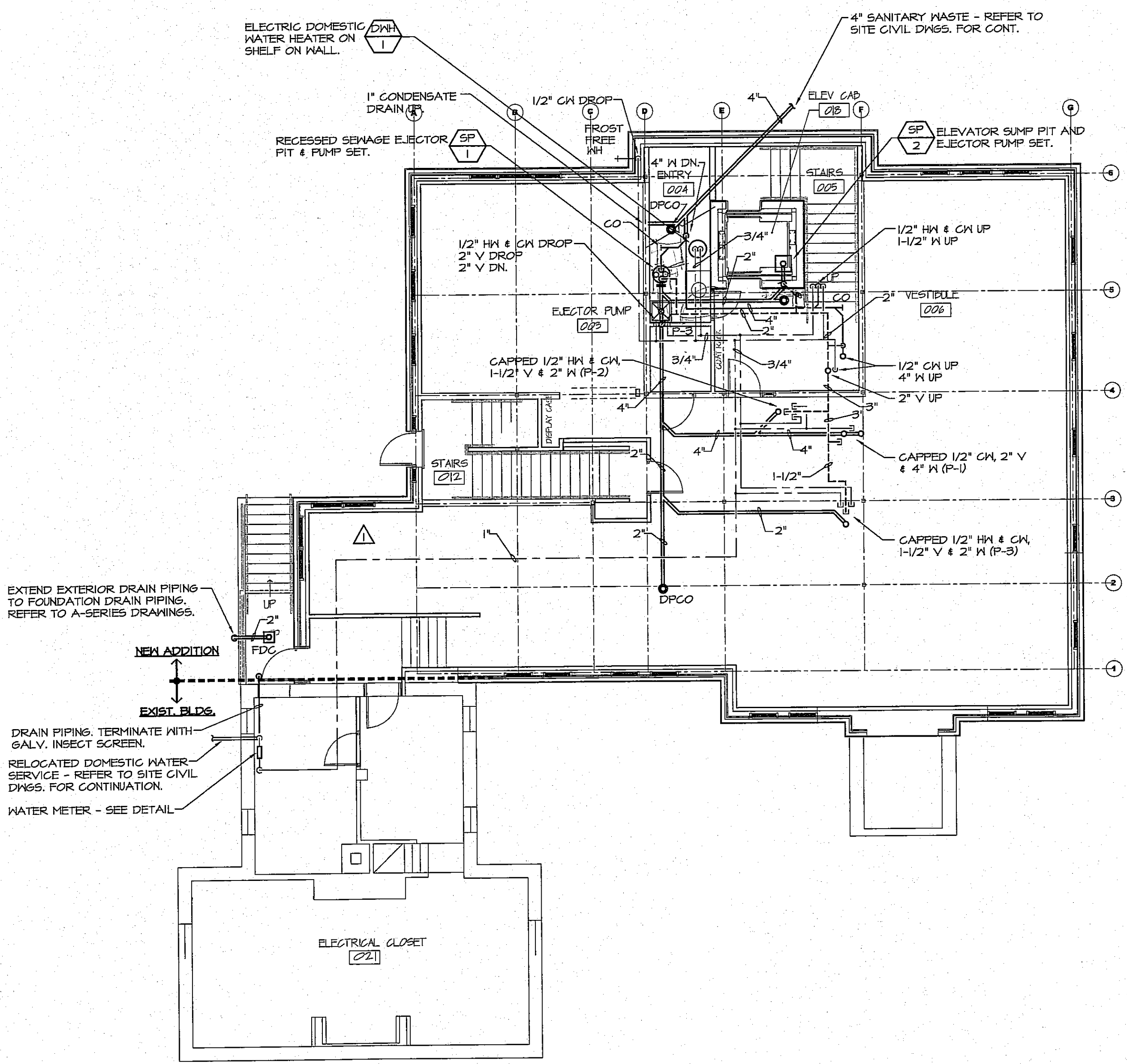
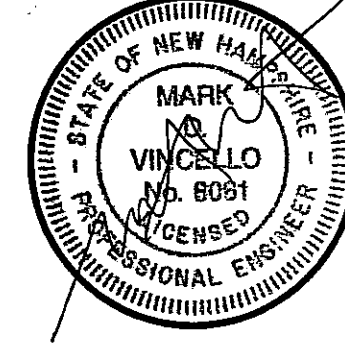
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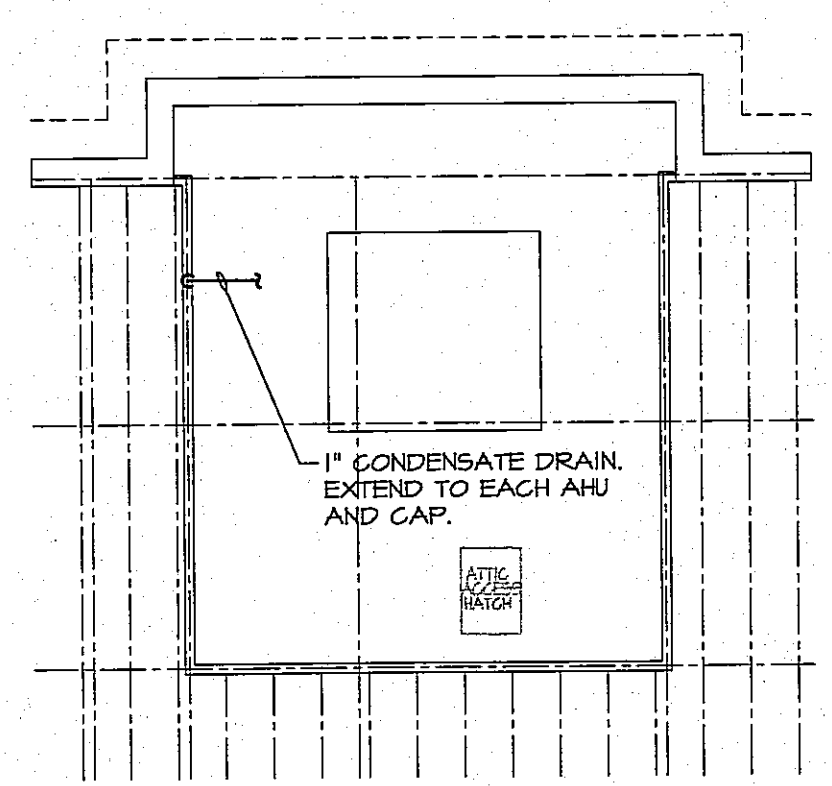
P1.1

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LOWER LEVEL PLUMBING PLAN - BASE BID
SCALE: 1/8" = 1'-0"

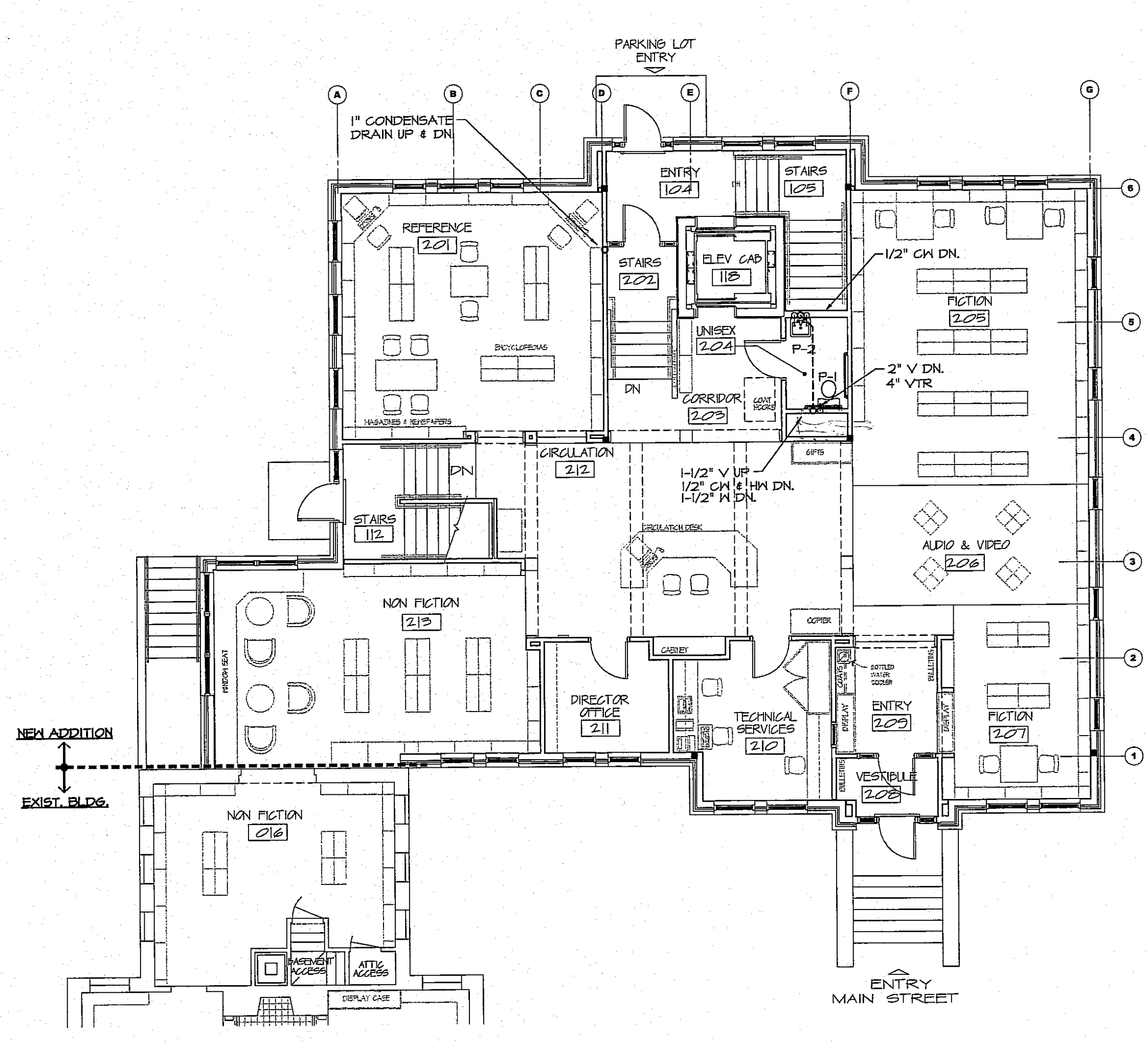
NOTE:
1. BASE BID WORK INCLUDES PROVISIONS FOR ALTERNATE PLUMBING SCOPE OF WORK.



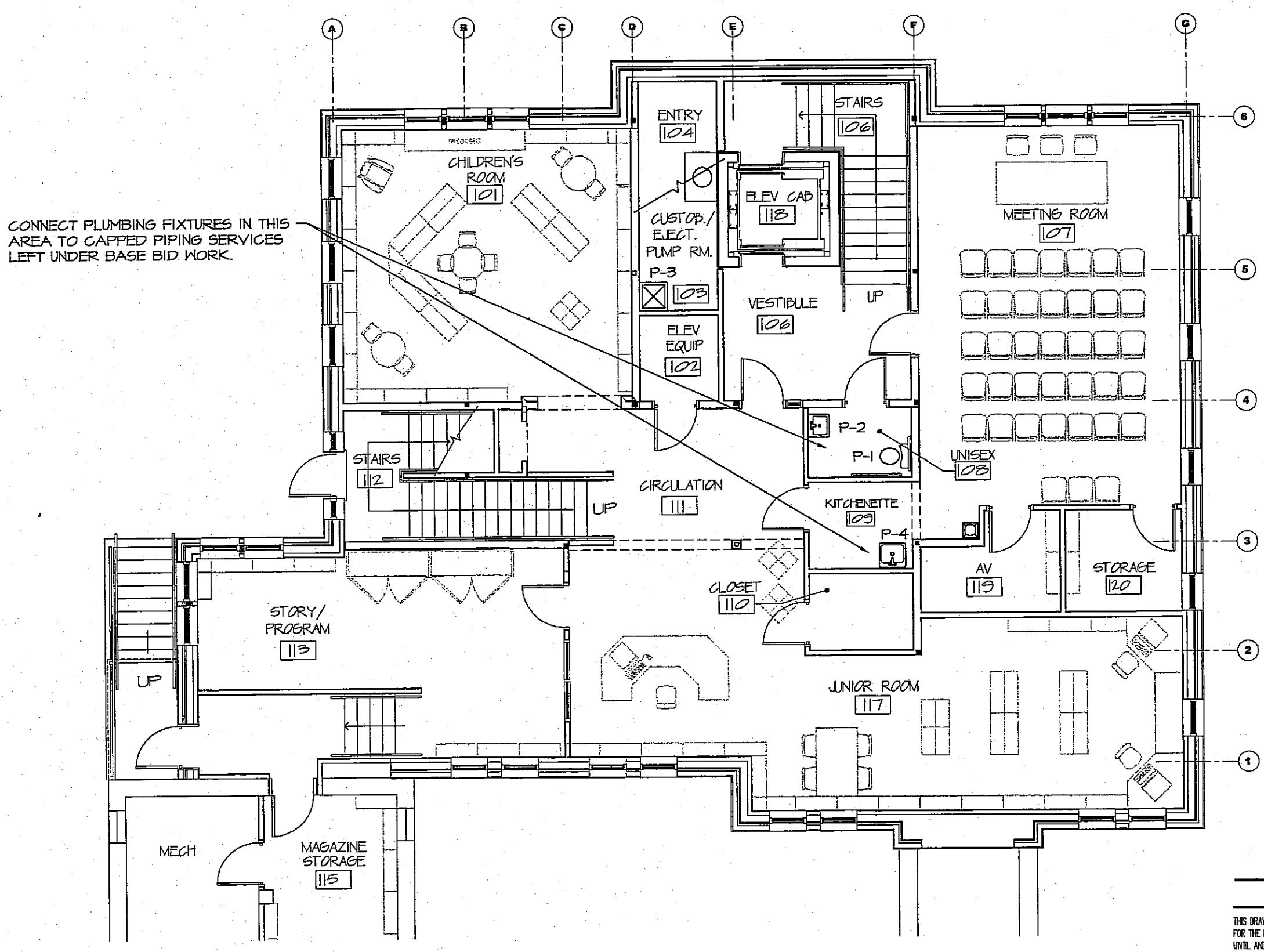
ATTIC LEVEL PLAN
SCALE: 1/8" = 1'-0"

DRAWING NOTES (APPLY TO ALL P-SERIES DWGS.)

REMOVE EXISTING PLUMBING FIXTURES, TRIM, PIPING, AND ACCESS, FROM PORTION OF BUILDING TO BE DEMOLISHED, INCLUDING WC AND LAV. COORD. DEMOLITION OF WASTE AND WATER SUPPLY PIPING LOCATED IN CRAWL SPACE WITH CIVILS/ITE, ALONG WITH RELOCATION OF EXISTING WATER SERVICE PIPING. REFER TO A-SERIES DWGS FOR LOCATION OF EXISTING BLDG TO BE DEMOLISHED.



UPPER LEVEL PLUMBING PLAN
SCALE: 1/8" = 1'-0"

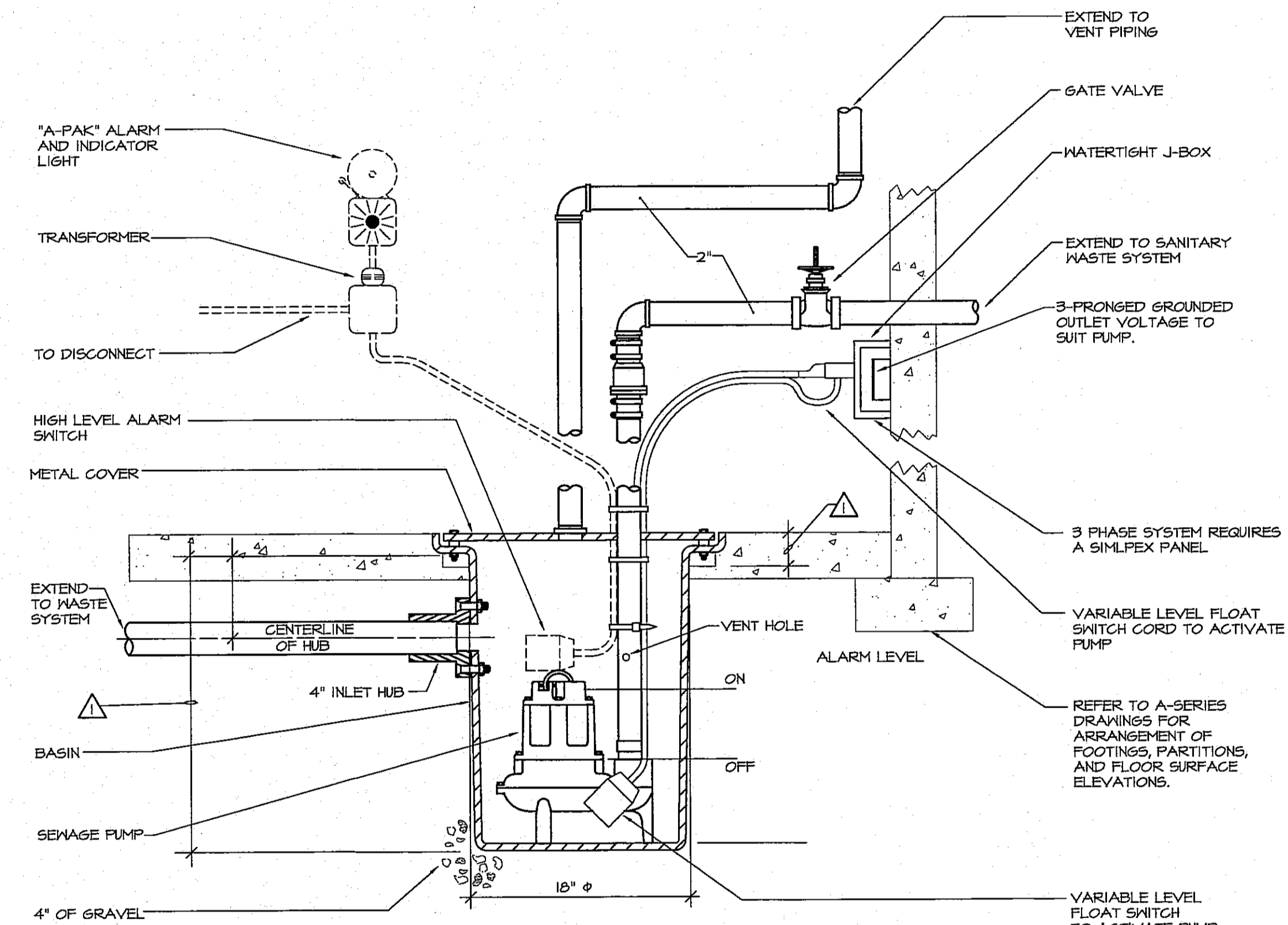


LOWER LEVEL PLUMBING PLAN - ALTERNATE
SCALE: 1/8" = 1'-0"

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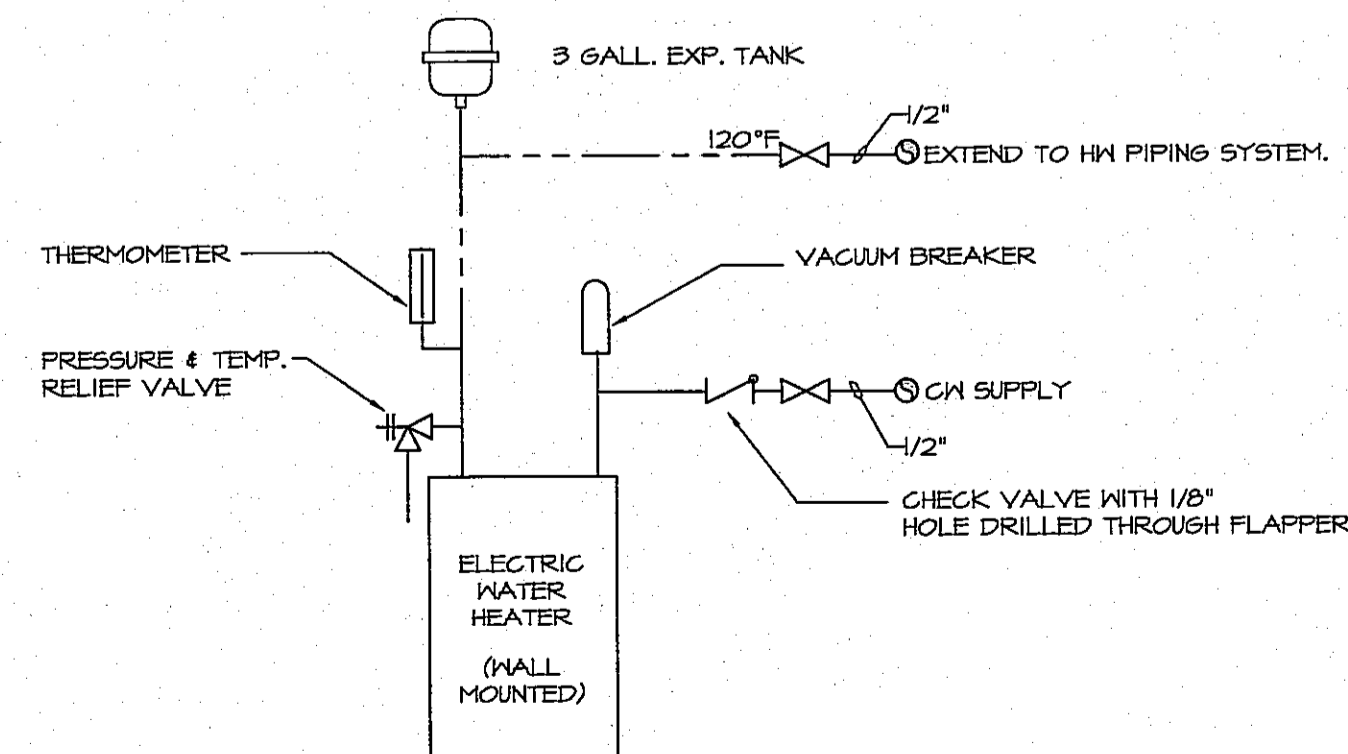
PLUMBING SYMBOL LIST					
ALL SYMBOLS ARE NOT NECESSARILY USED					
SYMBOLS	DESCRIPTION	ABBREVIATION	SYMBOLS	DESCRIPTION	ABBREVIATION
	SANITARY SOIL AND WASTE ABOVE GROUND	SWA		CLEANOUT	CO
	SANITARY SOIL AND WASTE BELOW GROUND/SLAB	SWB		WALL CLEANOUT	WCO
	SANITARY VENT	V		DECK PLATE CLEANOUT	DPKO
	VENT BELOW GROUND/SLAB	V		FLOOR OR ROOF DRAIN	FD, RD
	COLD WATER	CW		WATER HAMMER ARRESTER	WHA
	HOT WATER	HW		NATURAL GAS	G
	HOT WATER RECIRC	HWRC		LIQUID PETROLEUM GAS	LPG
	SHUTOFF VALVE (GATE)	GV		PRESSURE & TEMPERATURE RELIEF VALVE	PTV
	SHUTOFF VALVE (BALL)	BV		PRESSURE RELIEF VALVE	RV
	CHECK VALVE	CV		STRAINER	
	GLOBE VALVE	GLV		UNION	
	FLOW (BALANCING VALVE)	FBV		PRESSURE GAUGE	
	CONTROL VALVE	CLV		THERMOMETER	
	PRESSURE REDUCING VALVE	PRV		WATER HYDRANT	WH
	WATER METER	WM		HOSE BIBB	HB
	PIPING DROP OR DOWN THROUGH FLOOR	DROP, DN		NEW TO EXISTING CONNECTION	
	PIPING RISE OR UP THROUGH CEILING	RISE, UP			

SYM	FIXTURE	SUP	TRP	MINIMUM BRANCH SIZE				REMARKS
				WASTE	VENT	COLD	HOT	
P-1	WATER CLOSET	1/2	-	4	2	1/2	-	FLOOR MTD. TANK, ADA TYPE
P-2	LAVATORY	3/8	1-1/4	1-1/2	1-1/2	1/2	1/2	WALL HUNG, ADA COMPLIANT
P-3	JANITOR SINK	1/2	2	3	2	1/2	1/2	FLOOR MTD, MOLDED STONE RECEPTOR
P-4	SINK	3/8	1-1/4	1-1/2	1-1/2	1/2	1/2	DROP IN FURN. BY OWNER, INSTLN BY PC

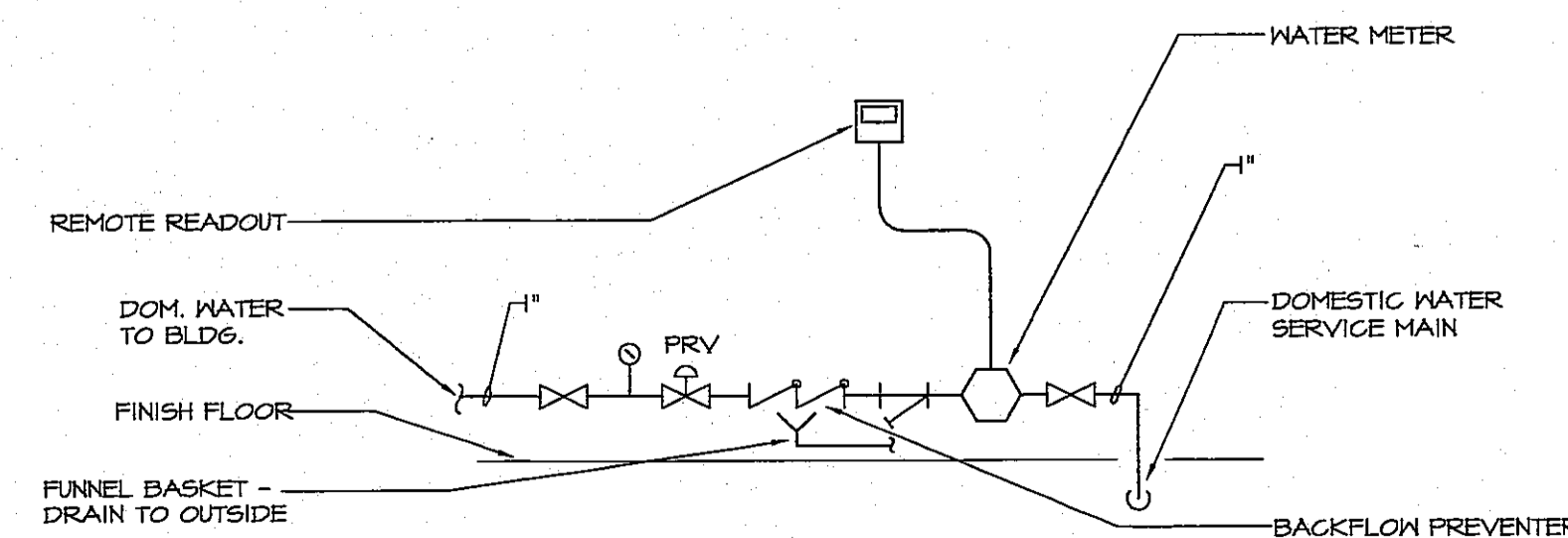


EJECTOR PUMP DETAIL - EJECTOR PUMP ROOM - 003
NO SCALE

DRAWING NOTES
 ▲ ADJUST DEPTH OF SUMP AND CENTERLINE OF INLET TO SUIT INVERT OF WASTE PIPING.



WATER HEATER PIPING DETAIL
NO SCALE



DOMESTIC WATER SERVICE ENTRANCE DETAIL
NO SCALE - ALL BLDGS

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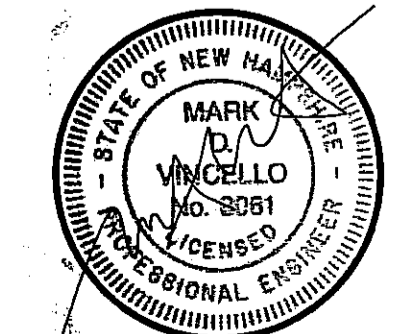
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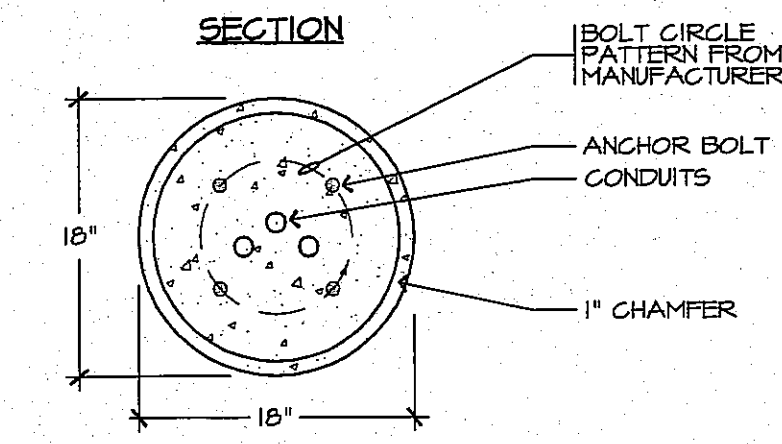
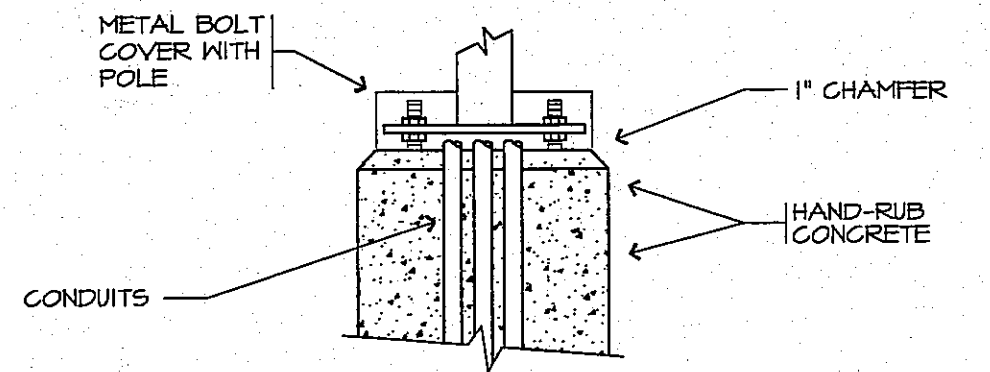
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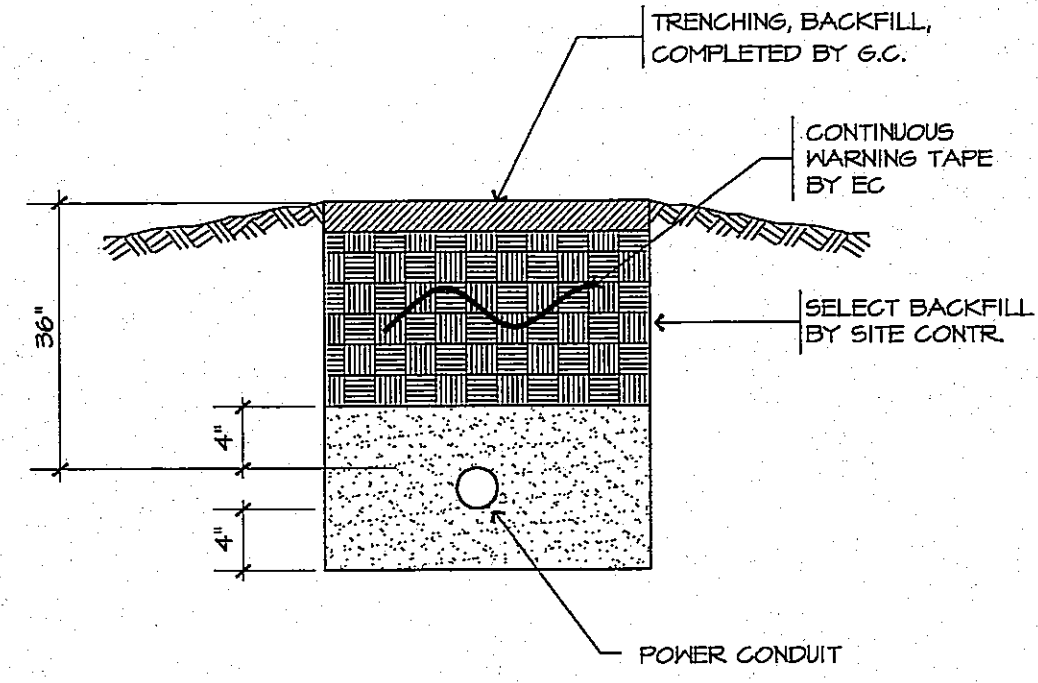
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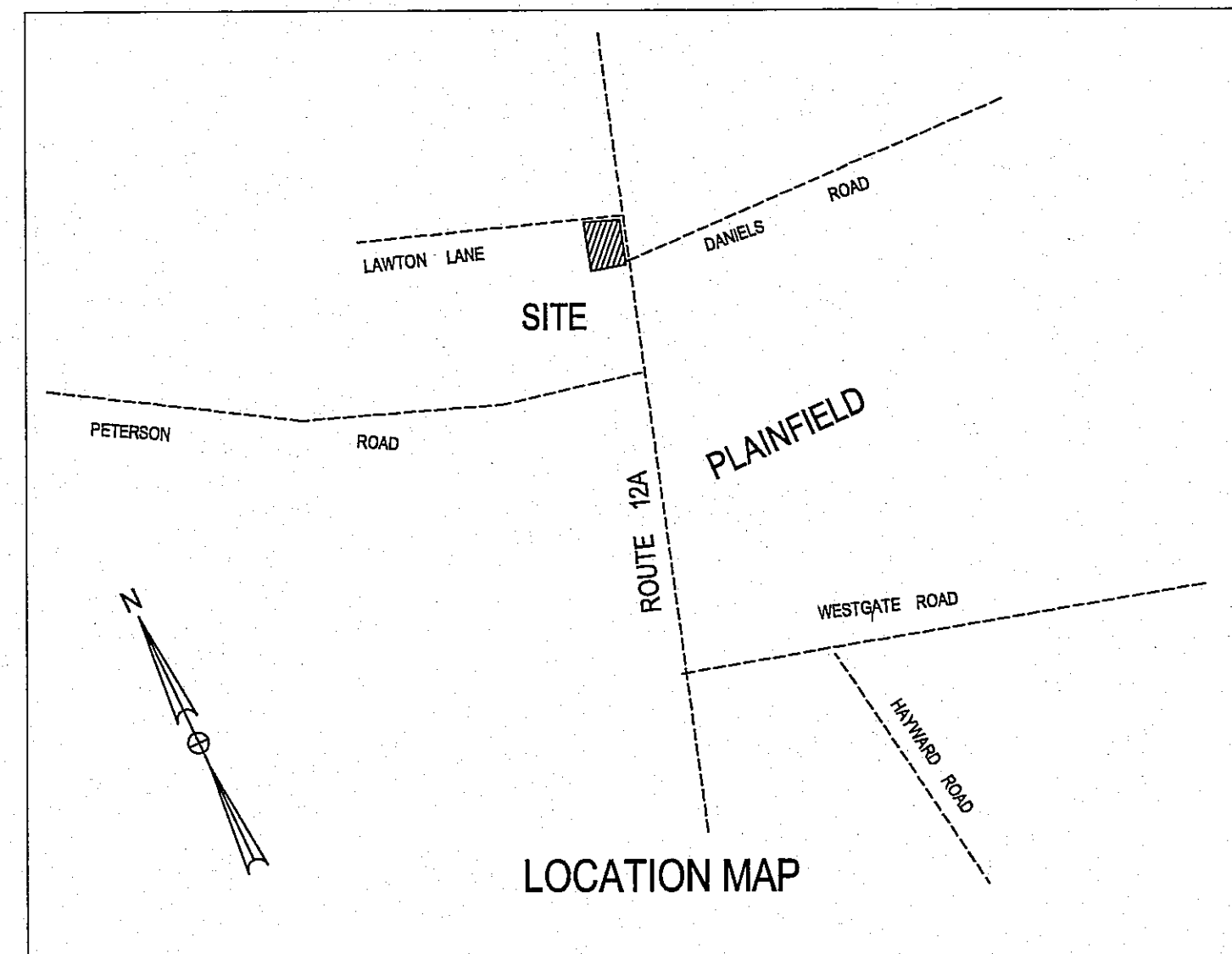




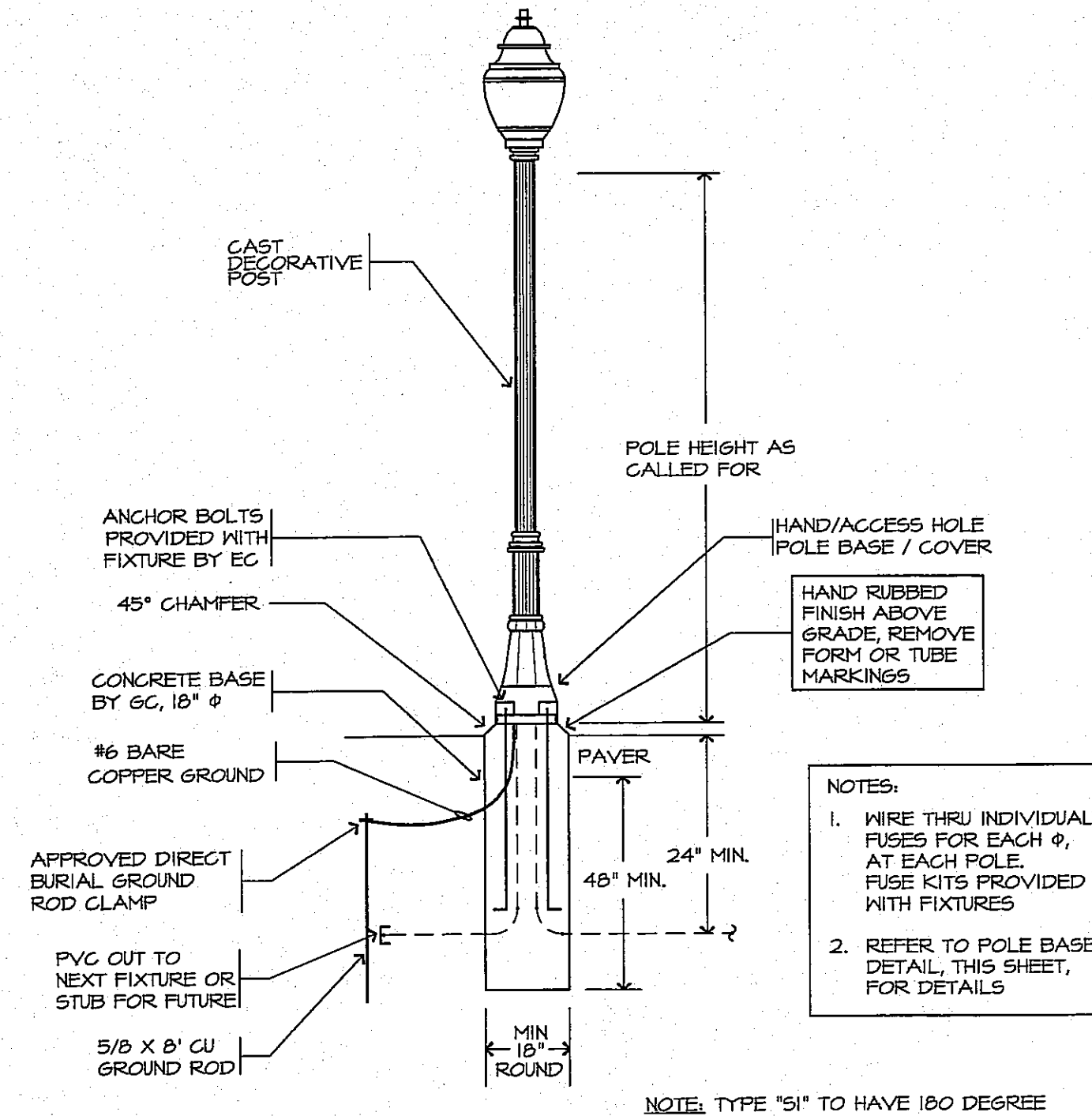
BOLLARD BASE DETAILS
NOT TO SCALE
ADD-ALTERNATE



SITE LIGHTING TRENCH SECTION
NOT TO SCALE

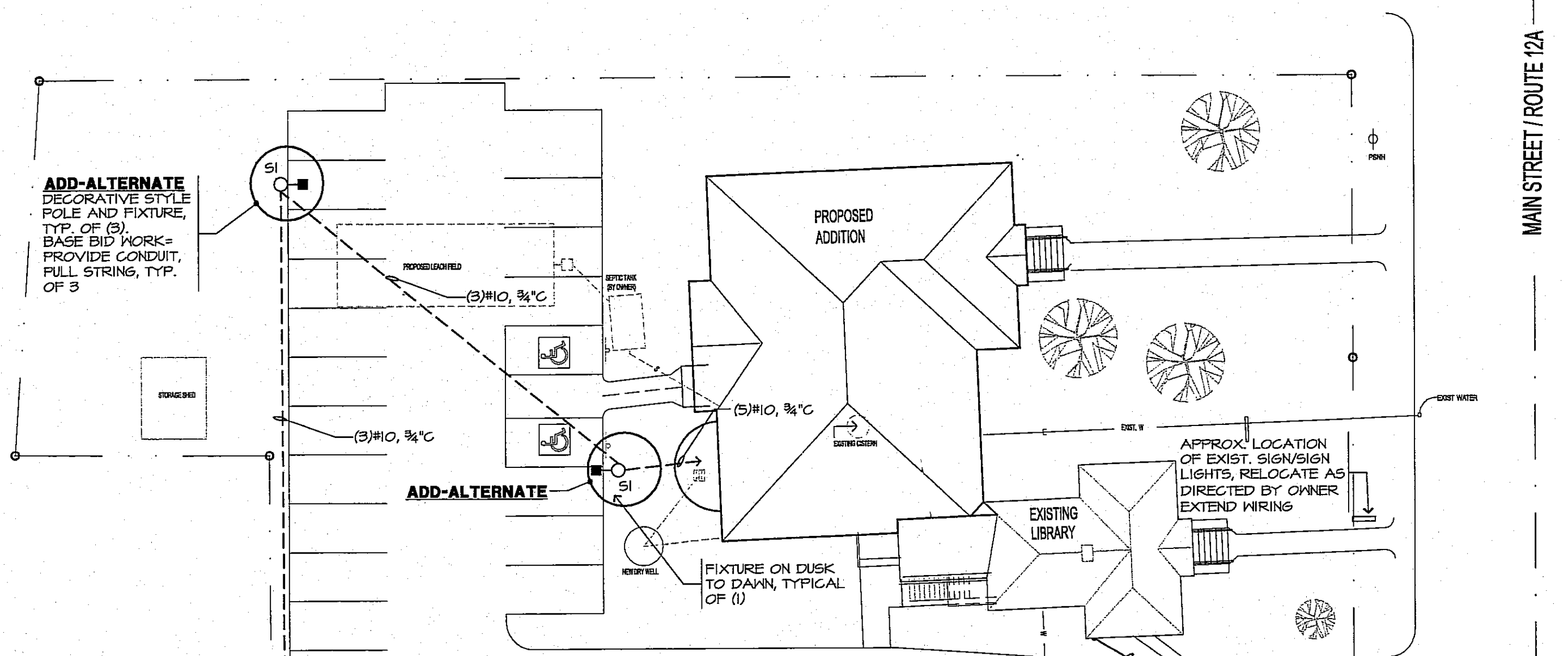


LOCATION MAP

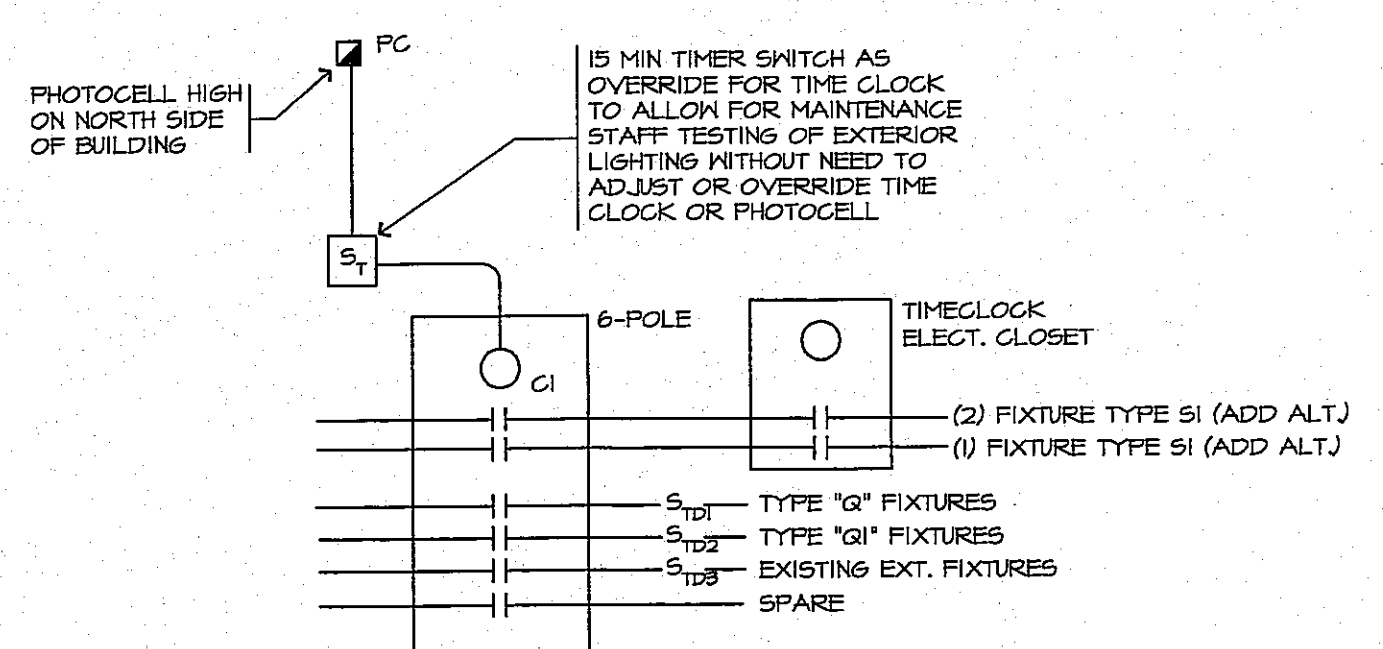


SITE LIGHTING INSTALLATION DETAIL
NOT TO SCALE
ADD-ALTERNATE

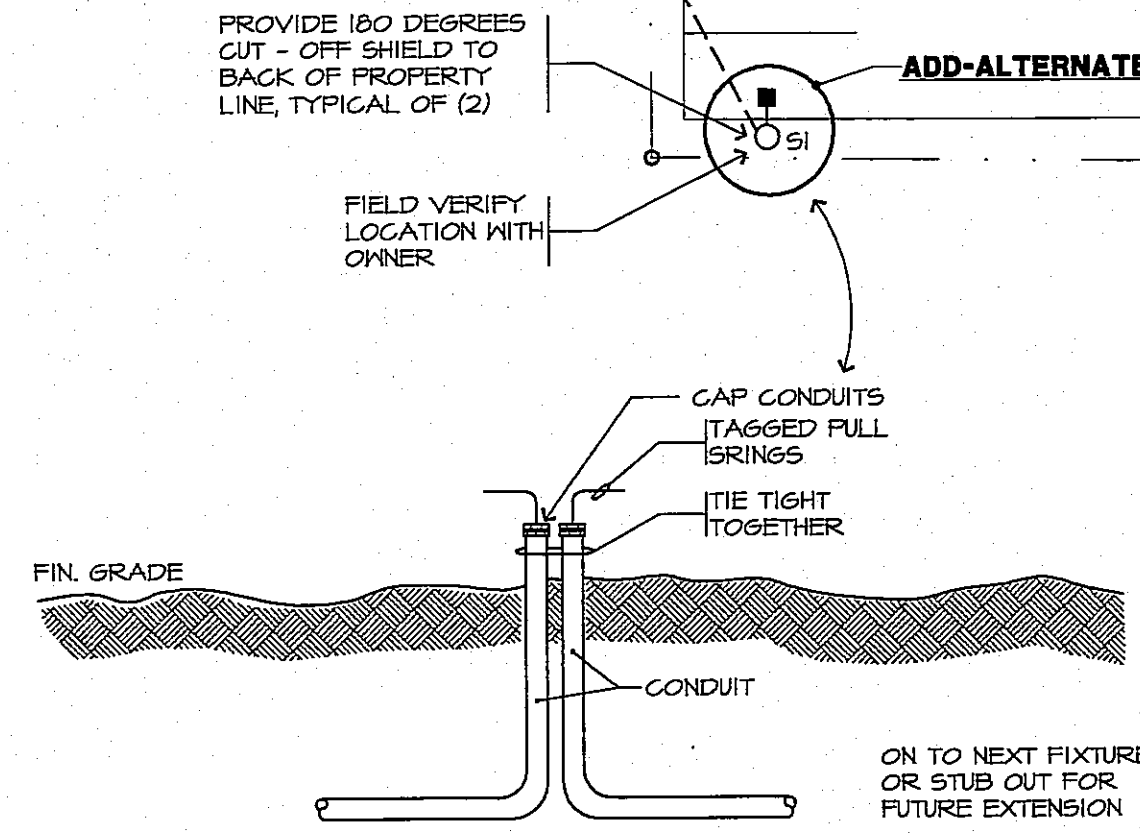
- NOTES:**
1. WIRE THRU INDIVIDUAL FUSES FOR EACH ϕ , AT EACH POLE. FUSE KITS PROVIDED WITH FIXTURES
 2. REFER TO POLE BASE DETAIL, THIS SHEET, FOR DETAILS



ELECTRICAL SITE PLAN
SCALE: 1" = 20'



EXTERIOR LIGHTING CONTROL WIRING DIAGRAM
NOT TO SCALE



SITE LIGHTING CONDUIT STUB-UP DETAIL
NOT TO SCALE

NOTE:
EXTERIOR MOUNTED WALL FIXTURES TYPE 'Q' (BACK OF BLDG) AND TYPE 'G' (FRONT OF BUILDING) TO BE ON SEPARATE DELAYED SWITCH PER OWNER REQUEST. (ON S₁₀)

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ELECTRICAL SITE PLAN

SCALE: AS SHOWN

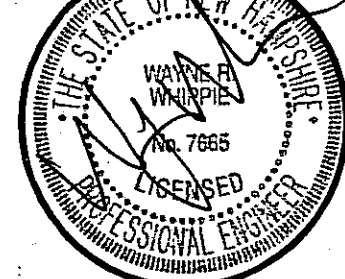
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PROJECT ENGINEER Wayne W. Whipple	

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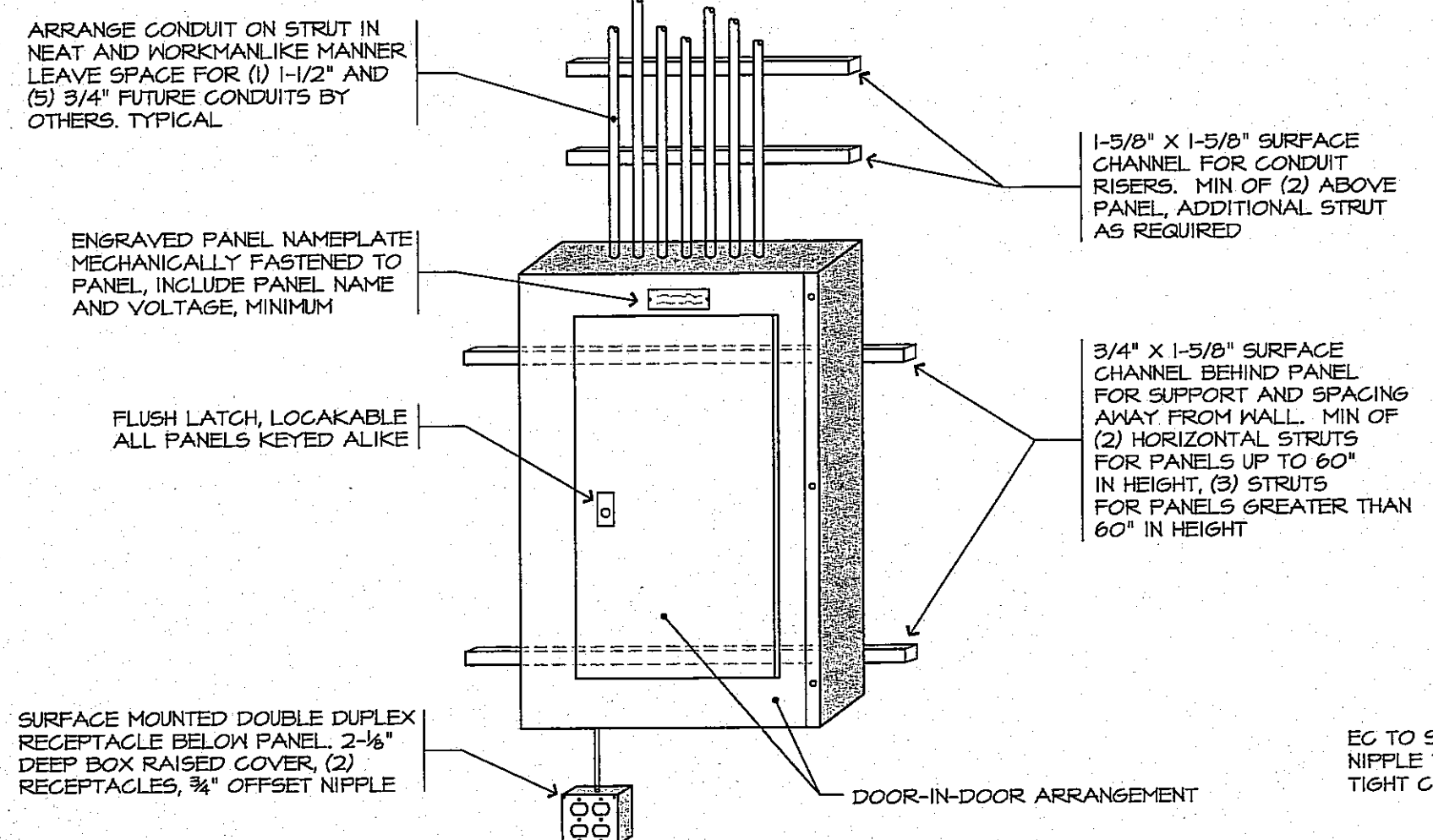


ELECTRICAL SYMBOL LIST

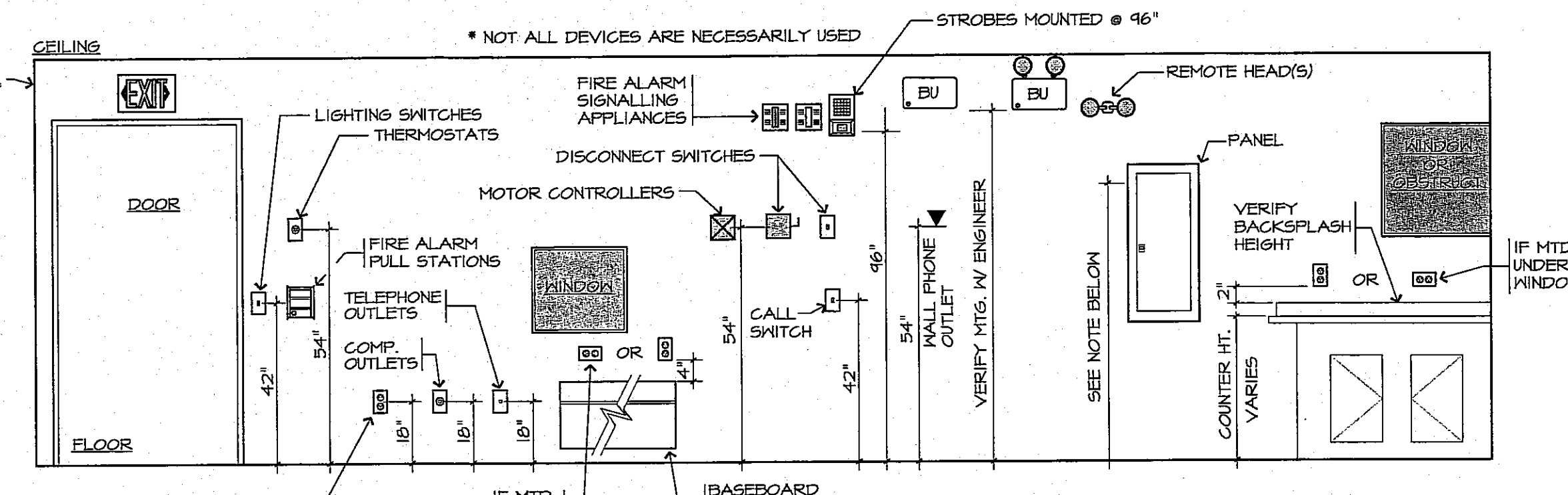
NOT ALL SYMBOLS ARE NECESSARILY USED

- RECESSED, FLUORESCENT FIXTURE
- WALL BRACKET
- CEILING FIXTURE
- EMERGENCY BATTERY UNIT, NO ATTACHED HEADS
- EMERGENCY BATTERY UNIT, ATTACHED HEADS
- REMOTE EMERGENCY LIGHTING FIXTURE, DOUBLE HEAD, POWERED FROM REMOTE BATTERY UNIT
- EXIT SIGN, SELF POWERED
- EXIT SIGN, SELF POWERED, WALL MOUNTED
- EMERGENCY LIGHTING UNIT, FLUSH MOUNTED, INTEGRAL BATTERY
- EMERGENCY LIGHTING UNIT, FLUSH MOUNTED, REMOTE LIGHT UNIT
- SINGLE POLE SWITCH 20 AMP 125/277 VOLT TOGGLE
- 3-WAY SWITCH 20 AMP 125/277 VOLT TOGGLE
- 4-WAY SWITCH 20 AMP 125/277 VOLT TOGGLE
- PILOT LIGHT SWITCH 20 AMP 125 VOLT TOGGLE, FLUSH MOUNT SEE NOTES AT DEVICE FOR SPECIFIC MOUNTING INSTRUCTIONS
- OIL BURNER SHUT OFF SWITCH
- DIMMER SWITCH, 120 VOLT, SLIDE TYPE, 1000 WATT MIN
- WALL MOUNTED TIME DELAY OFF SWITCH, 20 AMP, 120 VOLT
- OIL BURNER FIRE-O-MATIC THERMAL CUTOFF SWITCH
- DUPLEX RECEPTACLE 20 AMP 125 VOLT
- CEILING MOUNTED RECEPTACLE, WHITE COLOR, FOR "SHOW WINDOW" USE, 120 VOLT, 20 AMP, WHITE PLATE
- DUPLEX RECEPTACLE ABOVE COUNTER AND BACKSPASH, VERIFY FINAL MOUNTING HEIGHT ON SITE PRIOR TO ROUGH IN
- ISOLATED GROUND DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE, SPLIT WIRED, TOP HALF SWITCH CONTROLLED
- DOUBLE DUPLEX RECEPTACLE, INSTALL IN 2-GANG BOX UNDER ONE 2-GANG PLATE, WIRE TO COMMON CIRCUIT AS SHOWN
- DUPLEX RECEPTACLE WITH WEATHERPROOF, GASKETED COVER
- GROUND FAULT TYPE DUPLEX RECEPTACLE, 20 AMP 125 VOLT CLASS A WITH 20 AMP FEED THROUGH RATING PLATE TO MATCH OTHER DEVICES (MIN 3 1/2" WALL BOX)
- INSTALL IN SEPARATE SINGLE GANG BOX WHERE SHOWN ON PLANS
- INSTALL IN SEPARATE 2-GANG DUPLEX RECEPTACLE, WITH WEATHERPROOF COVER
- FLOOR MOUNTED RECEPTACLE
- SPECIAL 1Ø OR 3Ø OUTLET, 20Ø VOLT, CONFIRM AMPERAGE AND N.E.M.A. CONFIGURATION TO SUITE EQUIPMENT BEING SERVED
- RANGE OUTLET, 50 AMP, 4 WIRE, FLUSH RECEPTACLE IN DEEP BOX WITH RAISED COVER
- TELEPHONE SYSTEM NETWORK INTERFACE (DEMARCON) POINT FURNISHED AND INSTALLED BY LOCAL TELEPHONE SERVICE CO. QUANTITY AS REQUESTED BY OWNER TO SERVE NEEDS
- TELEPHONE OUTLET, BOX AND DROP SEE DROP DETAIL AND PHONE RISER
- TELEPHONE OUTLET, WALL OR PAY TYPE AS NOTED
- CATV OUTLET BOX AND DROP, SEE DETAILS AND CATV RISER DIAGRAM
- COMPUTER OUTLET BOX AND DROP, SEE DETAILS
- WIRING HOME RUN TO PANEL AS NOTED, (2) #12, (1) #12 GND MIN. BACK TO 20 AMP, SINGLE POLE BREAKER UNLESS NOTED OTHERWISE
- INDICATES (2) POWER CONDUCTORS WITH FULL SIZE GROUND
- INDICATES (3) POWER CONDUCTORS WITH FULL SIZE GROUND
- INDICATES (4) POWER CONDUCTORS WITH FULL SIZE GROUND
- CABLE OR RACEWAY RUN CONCEALED IN WALLS OR CEILING SURFACE MOUNTED WHERE NOTED OR ALLOWED IN UTILITY OR UNFINISHED AREAS
- UNDERSLAB RACEWAY AS NOTED
- EMERGENCY LIGHTING LOW VOLTAGE (12 VDC) WIRING, RUN CONCEALED IN WALLS OR ABOVE CEILING, SURFACE MOUNTED ONLY IN UTILITY AREAS OR WHERE SPECIFICALLY ALLOWED
- 120/208
- 120/208
- 120/208
- TELEPHONE BACKBOARD
- TELEPHONE AND CATV BACKBOARD BY EC, SEE SYSTEMS RISER DIAGRAMS FOR ADDITIONAL DETAILS AND SPECIFICATIONS
- DISCONNECT SWITCH BY EC, 250 VOLT, NEMA 1 (OR 3Ø AS NOTED), FUSIBLE, SIZE AS NOTED OR REQUIRED, DUAL ELEMENT, TIME DELAY FUSES SIZED, FURNISHED AND INSTALLED BY EC PER EQUIPMENT NAMEPLATE VALUES
- TIMECLOCK
- PHOTOCELL
- FIRE SEAL AT RATED PARTITION
- ALARM BELL
- ALARM CORRIDOR LIGHT
- TRANSFORMER, 120/24 VAC
- MANUAL MOTOR STARTER
- MAGNETIC OR COMBINATION MOTOR STARTER
- EXHAUST FAN, FURNISHED WITH DUCTWORK AND INSTALLED BY MC. POWER WIRING BY EC AS SHOWN OR AS NOTED, FANS ARE 120 VOLT, FRACTIONAL HORSEPOWER, UNLESS SPECIFICALLY NOTED OTHERWISE
- EQUIPMENT MOTOR, FURNISHED AND INSTALLED COMPLETE BY OTHERS AS NOTED, POWER WIRING AND DISCONNECT BY EC AS REQUIRED

WHERE (2) DUPLEX RECEPTACLES ARE SHOWN NEAR EACH OTHER
 QUAD NOT ALLOWED



- ### EXISTING EQUIPMENT SYMBOLS
- EXISTING EQUIPMENT TO REMAIN
 - EXISTING EQUIPMENT TO BE RELOCATED AS SHOWN
 - NEW EQUIPMENT AT EXISTING LOCATION
 - EXISTING EQUIPMENT TO BE REMOVED AND DISPOSED OF



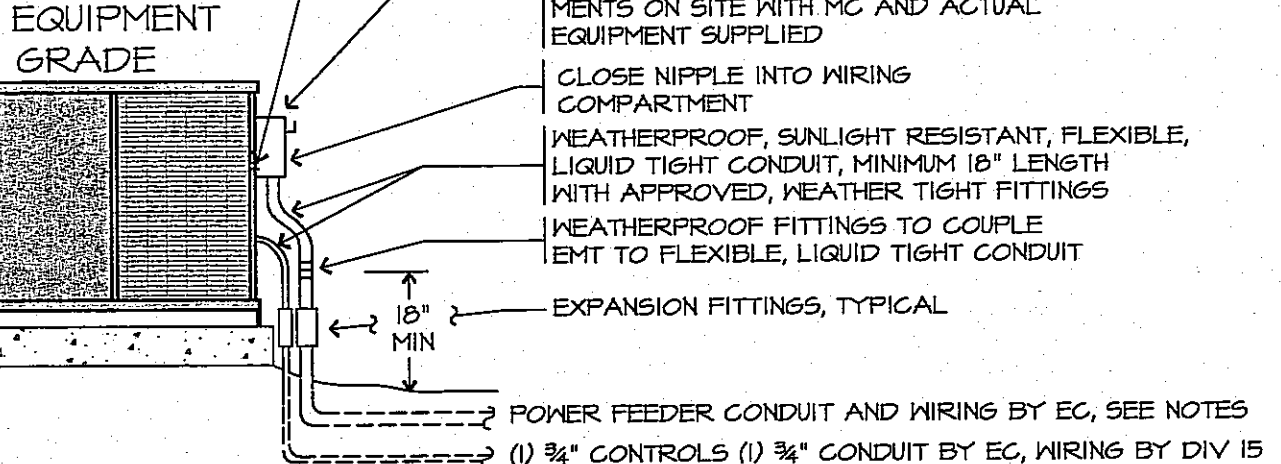
TYPICAL DEVICE MOUNTING HEIGHTS ELEVATION NOT TO SCALE

- #### NOTES
- A. THE ABOVE MOUNTING HEIGHTS SHALL APPLY TO ALL DEVICES UNLESS NOTED OTHERWISE ON THE PLANS. ALL NOTED DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE FROM THE FINISHED FLOOR.
 - B. WHERE EXISTING OR SPECIAL CONDITIONS PREVENT THE INSTALLATION OF DEVICES AT THE ABOVE HEIGHTS, THE EC SHALL VERIFY HEIGHTS ON SITE WITH ARCHITECT.
 - C. ALL DEVICES IN FINISHED AREAS SHALL BE INSTALLED IN FLUSH DEVICE BOXES. NO SURFACE BOXES SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ARCHITECT.
 - D. EC SHALL VERIFY FINAL WORKBENCH, COUNTER, CABINET OR VANITY HEIGHTS INCLUDING BACKSPASH, ON SITE WITH GC PRIOR TO INSTALLATION OF BOXES. ABOVE COUNTER DEVICES NOTED BY (#).
 - E. INSTALL RECEPTACLES HORIZONTALLY, 4\"/>

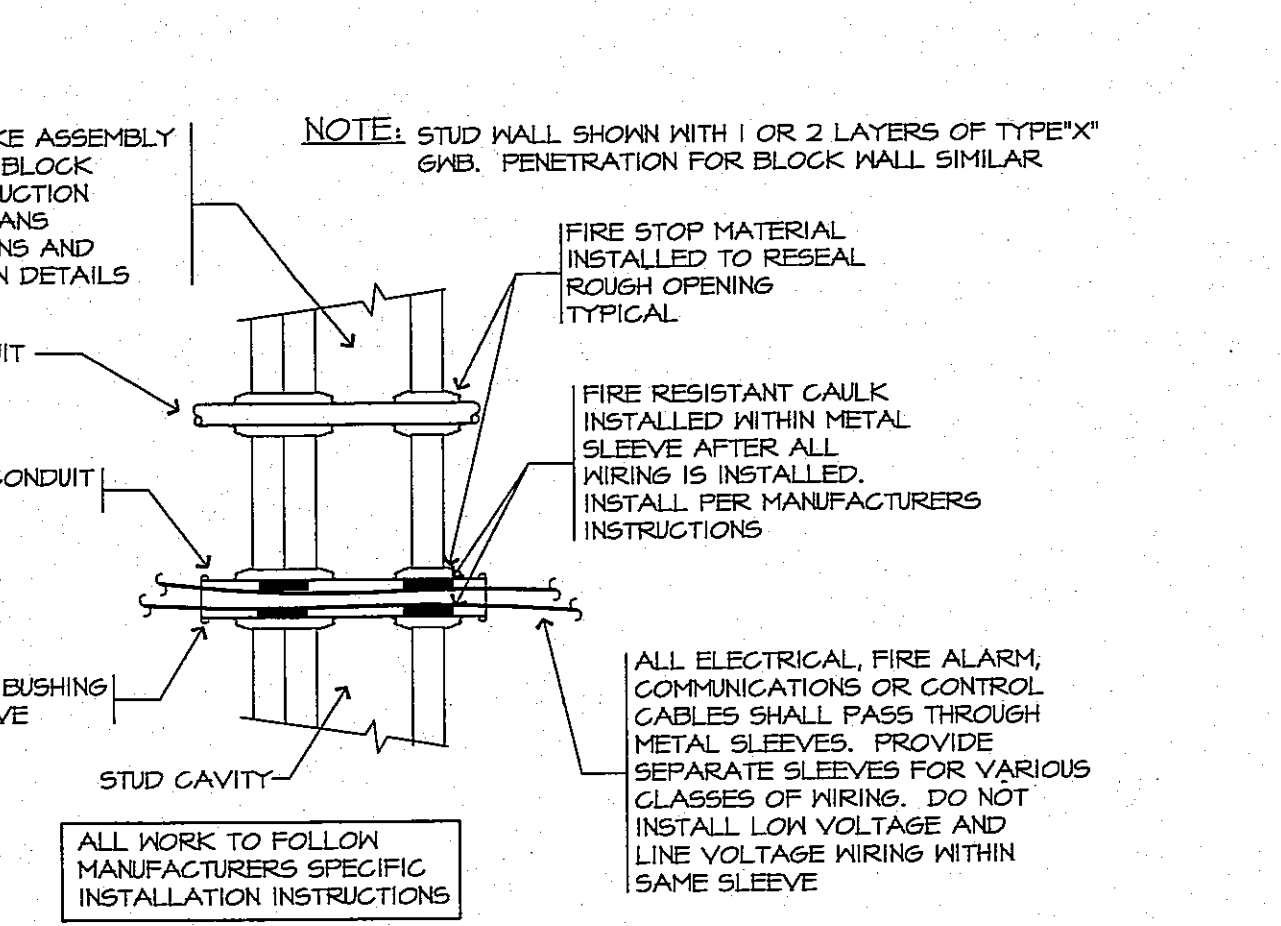


FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION	MOUNTING
FACP	FIRE ALARM CONTROL PANEL	FLUSH, 5' TO TOP
ANN	FIRE ALARM REMOTE ANNUNCIATOR	FLUSH, 5' TO TOP
SD	SYSTEM SMOKE DETECTOR	CEILING
RHD	RATE OF RISE HEAT DETECTOR	CEILING
FHD	FIXED HEAT DETECTOR	CEILING
FHD	FIXED HEAT DETECTOR	CEILING
RHD	RATE OF RISE HEAT DETECTOR	CEILING
MFS	MANUAL FILL STATION	WALL, 42\"/>



PADMOUNTED UNIT WIRING INSTALLATION DETAIL NOT TO SCALE

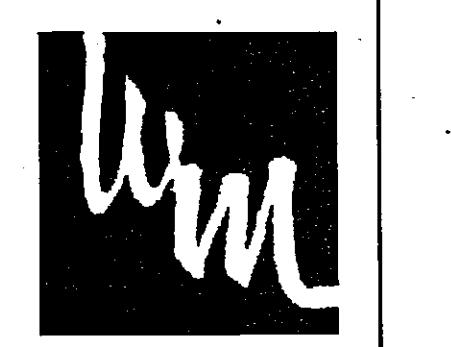
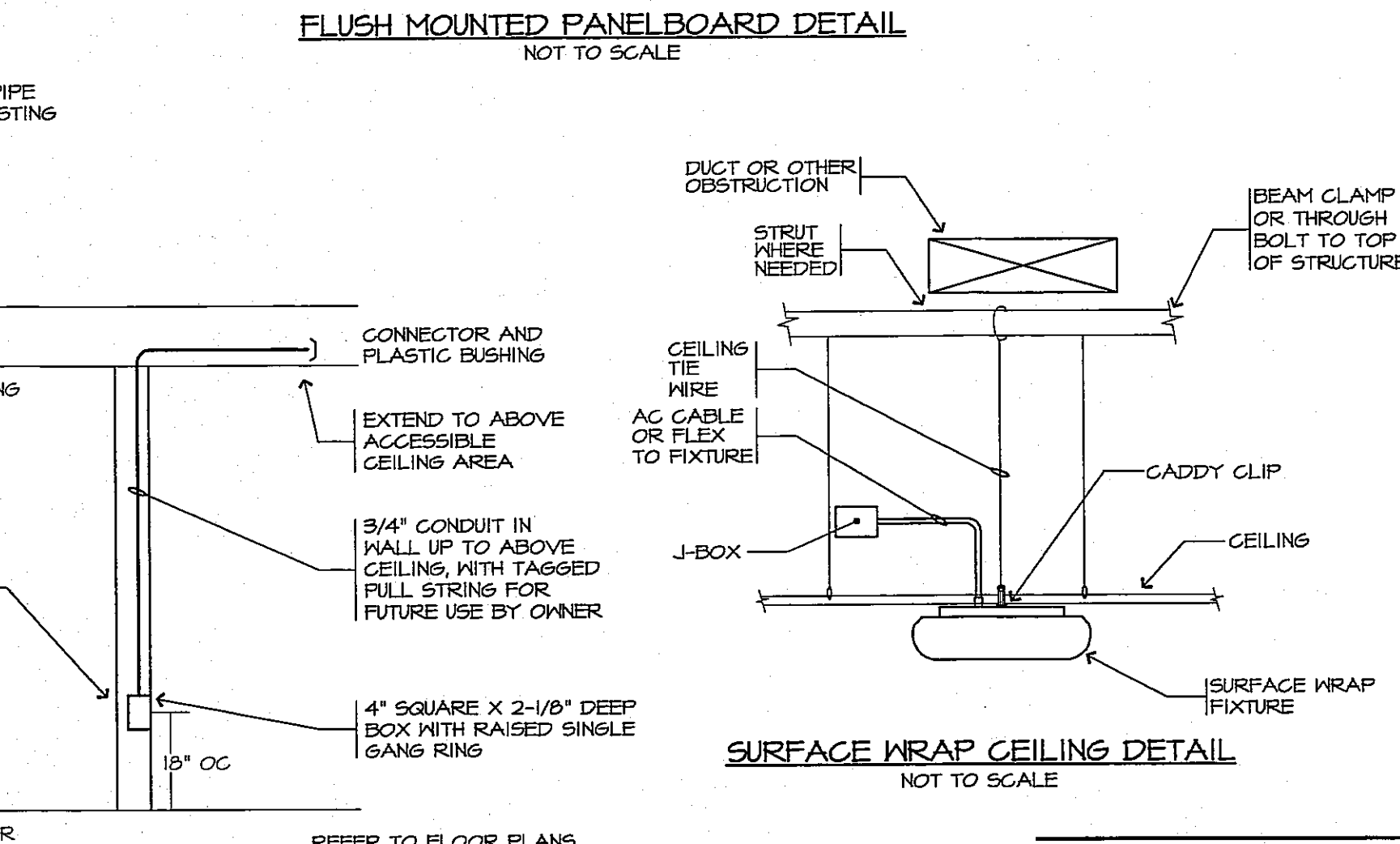
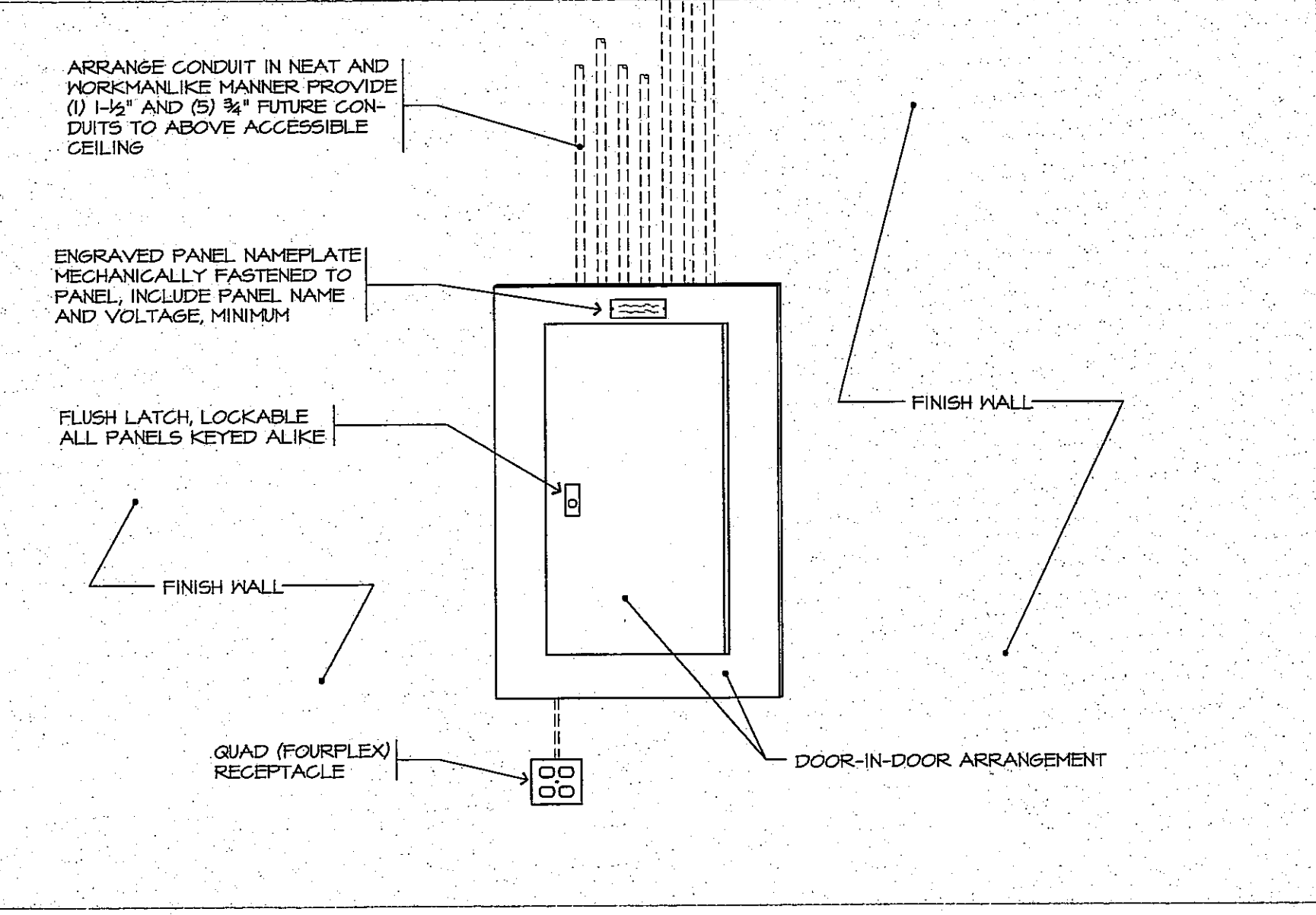
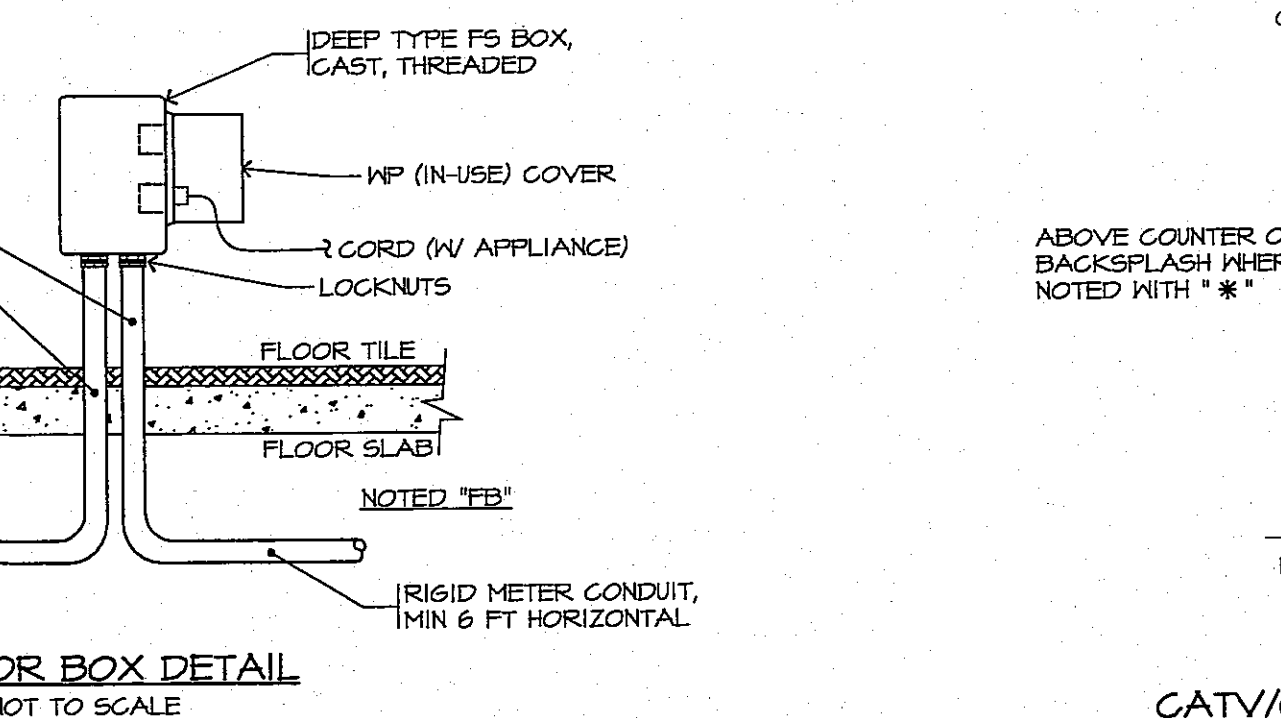
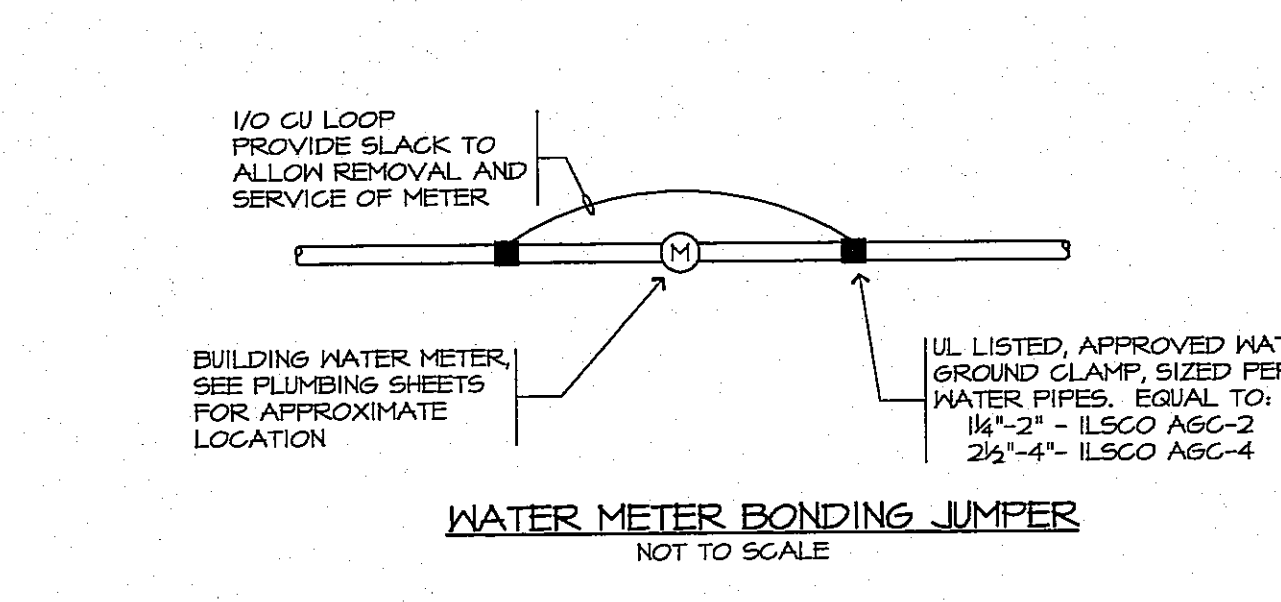
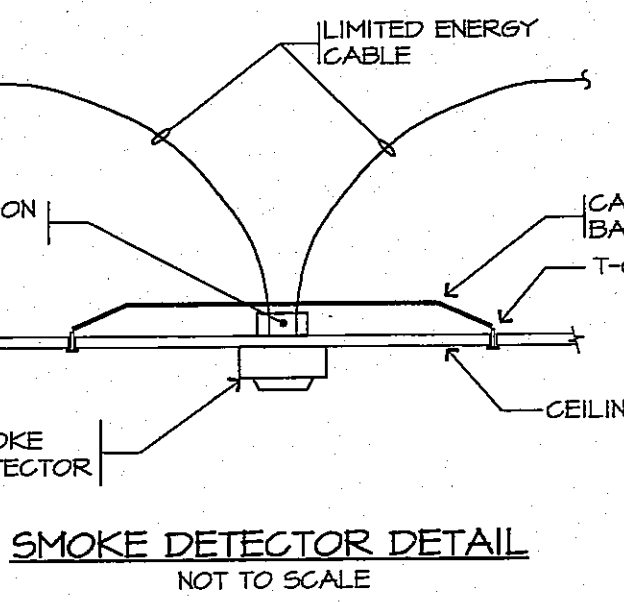


ELECTRICAL ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- AFS ABOVE FINISHED GRADE
- AL ALUMINUM
- BA BELL ATLANTIC
- BC BARE COPPER
- BKBD BACKBOARD
- BLDG BUILDING
- C CONDUIT
- CATV CABLE TELEVISION
- CSA CANADIAN STANDARDS
- CU COPPER
- CVEC CONN. VALLEY ELECTRIC CORP.
- CVPS CENTRAL VERMONT PUBLIC SERVICE
- DET DETAIL
- DMS DRAWINGS
- EC ELECTRICAL CONTRACTOR
- EMT ELECTRICAL METALLIC TUBING
- FU FUSIBLE
- GC GENERAL CONTRACTOR
- GF GROUND FAULT (PROTECTED)
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- HVAC HEATING, VENTILATION AND AIR CONDITIONING
- MC MECHANICAL CONTRACTOR
- MCB MAIN CIRCUIT BREAKER
- MCH MAGNETIC HOLDERS
- MIN MINIMUM
- MLO MAIN LUGS ONLY
- MTD MOUNTED
- NIC NOT IN CONTRACT
- NF NON FUSED
- PVC RIGID NON-METALLIC CONDUIT (POLYVINYL CHLORIDE)
- RMC RIGID GALVANIZED METAL CONDUIT
- SHT SHEET
- TELE TELEPHONE
- TV TELEVISION
- UL UNDERWRITERS LABORATORY
- UNLESS OTHERWISE NOTED
- VBA VERIZON / BELL ATLANTIC
- VWG WITH GROUND CONDUCTOR
- WP WEATHERPROOF

LISTED EQUIPMENT NOTICE

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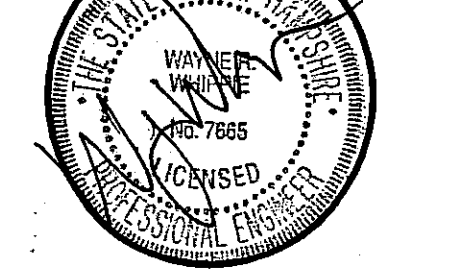
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 www.wengineering.com

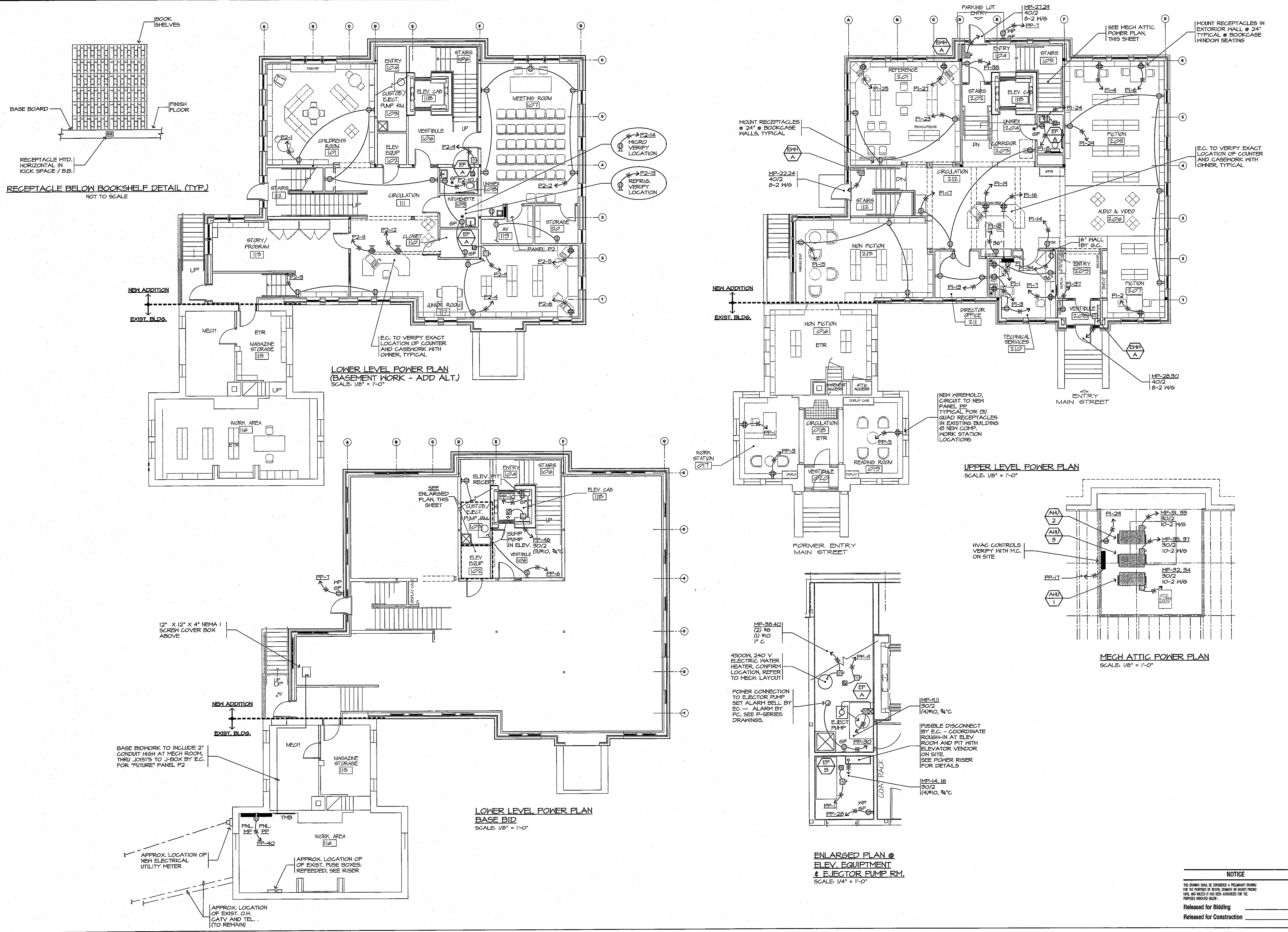
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WV engineering associates

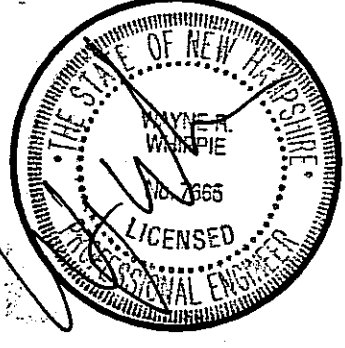
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PANEL: MP	VOLTAGE: 120/240	PHASE: 1	MAIN: A - MLO	MCB
TYPE: PANELBOARD <input type="checkbox"/> LOADCENTER <input type="checkbox"/> PLUG IN <input type="checkbox"/> BOLT ON <input type="checkbox"/> FAULT RATING: 10,000 d/c				
LOCATION: ELECT. CLOSET	MOUNTING:			SURFACE
DIRECTORY	TRIP	AMP	BPO	DIRECTORY
PANEL PP	125/2 1	1600 10000	2	125/2 PANEL PI
	3	1600 10000	4	
FUTURE PANEL	125/2 5	5000 10000	6	PANEL P2 (FUTURE - BASEMENT)
	7	5000 10000	8	
SEWAGE EJECTOR PUMP	30/2 9	1000 3000	10	10/2 EXISTING LIBRARY (FUSED PANEL)
	11	1000 3000	12	
ACC-1 (FUTURE) (CONDENSING UNIT)	50/2 13	3174 5150	14	90/2 ELEVATOR (10 HP) CONFIRM/V. VERIFY HP (ST)
	15	3174 5150	16	
ACC-2 (FUTURE) (CONDENSING UNIT)	50/2 17	3174 5150	18	SHUNT TRIP MECH.
	19	3174 800	20	20/1 FUEL OIL SUPPLY PUMP
ACC-3 (FUTURE) (CONDENSING UNIT)	50/2 21	3174 1500	22	40/2 ENH-A
	23	3174 1500	24	
SPARE	20/1 25	500 500	26	20/1 SPARE
ENH-A	40/2 27	500 1500	28	40/2 ENH-A
	29	500 1500	30	
AIR HANDLING UNIT AHU-2	30/2 31	1500 1500	32	30/2 AIR HANDLING UNIT AHU-1
	33	1500 1500	34	
AIR HANDLING UNIT AHU-3	30/2 35	1500 1500	36	20/1 ELEVATOR SUMP PUMP
	37	1500 2250	38	40/2 WATER HEATER
RECEPTACLE MTD. BELOW THIS PANEL	20/1 39	500 2250	40	
CONNECTED LOAD		54381	60381	NOTES
DEMAND 70%		41570	42270	(ST) SHUNT TRIP BREAKER (GF) GROUND FAULT (BL) BREAKER LOCK KIT
TOTAL DEMAND LOAD		83840		

PANEL: PP	VOLTAGE: 120/240	PHASE: 1	MAIN: 125 A - MLO	MCB
TYPE: PANELBOARD <input type="checkbox"/> LOADCENTER <input type="checkbox"/> PLUG IN <input type="checkbox"/> BOLT ON <input type="checkbox"/> FAULT RATING: 10,000 d/c				
LOCATION: ELECT. CLOSET	MOUNTING:			SURFACE
DIRECTORY	TRIP	AMP	BPO	DIRECTORY
WORK STATION OIT RECEPTACLE	20/1 1	360 360	2	20/1 WORK STATION OIT RECEPTACLE
WORK STATION OIT RECEPTACLE	20/1 3	360 500	4	20/1 AREA OF REFUSE (BL)
(BL) FACP	20/1 5	800 500	6	
EXTERIOR RECEPTACLES	20/1 7	360 500	8	20/1 VESTIBULE RECEPTACLES
EXHAUST FAN EF-A	20/1 9	500 500	10	20/1 ELEVATOR PIT RECEPTACLE
EXHAUST FAN EF-B	20/1 11	500 500	12	20/1 ELEVATOR PIT LIGHTING
BASEMENT LIGHTING	20/1 13	500 500	14	20/1 BASEMENT/STAIR LIGHTING
SPARE	20/1 15	500 500	16	20/1 SPARE
HVAC CONTROLS	20/1 17	750 500	18	20/1 VEST. ELEV. EQUIP. SEM. EJECT. CUSTODIAL LIGHTING
HVAC CONTROLS	20/1 19	750 500	20	20/1 SPARE
SPARE	20/1 21	500 500	22	20/1 SPARE
SPARE	20/1 23	500 500	24	20/1 SPARE
SPARE	20/1 25	500 500	26	20/1 SPARE
ELEVATOR PIT RECEPTACLE	20/1 27	360 540	28	20/1 ELEVATOR RM. RECEPTACLES
ELEVATOR CONTROLS	20/1 29	650 500	30	20/1 PUMP ROOM RECEPTACLE
ELEVATOR GAB LIGHTS	20/1 31	650 500	32	20/1 SPARE
SITE LIGHTING	20/1 33	800 800	34	20/1 SITE LIGHTING
SITE LIGHTING	20/1 35	800 800	36	20/1 SITE LIGHTING
CATV BACKBOARD RECEPTACLE	20/1 37	100 100	38	20/1 TELEPHONE BACKBOARD RECEPTACLE
RECEPTACLE MTD. BELOW THIS PANEL	20/1 39	180 200	40	20/1 EXISTING ATTIC LIGHTING
CONNECTED LOAD		11420	10240	NOTES
DEMAND 70%		7994	7168	(GF) GROUND FAULT (BL) BREAKER LOCK KIT
TOTAL DEMAND LOAD		15162		

PANEL: PI	VOLTAGE: 120/240	PHASE: 1	MAIN: 125 A - MLO	MCB
TYPE: PANELBOARD <input type="checkbox"/> LOADCENTER <input type="checkbox"/> PLUG IN <input type="checkbox"/> BOLT ON <input type="checkbox"/> FAULT RATING: 10,000 d/c				
LOCATION: ELECT. CLOSET	MOUNTING:			FLUSH
DIRECTORY	TRIP	AMP	BPO	DIRECTORY
TECH. SERVICES 210 WORK STATION RECEPTACLE	20/1 1	360 900	2	20/1 FICTION 207/AUDIO VIDEO 208 RECEPTACLES
TECH. SERVICES 210 WORK STATION RECEPTACLE	20/1 3	360 360	4	20/1 FICTION 205 RECEPTACLE
TECH. SERVICES 210 RECEPTACLES	20/1 5	120 360	6	20/1 FICTION 205 RECEPTACLE
TECH. SERVICES 210 WORK STATION RECEPTACLE	20/1 7	360 180	8	20/1 UNI-SEX 204 RECEPTACLE
SPARE	20/1 9	500 500	10	20/1 SPARE
SPARE	20/1 11	500 500	12	20/1 SPARE
DIRECTOR OFFICE 211 RECEPTACLES	20/1 13	540 180	14	20/1 COPIER
NON-FICTION O15 RECEPTACLES	20/1 15	540 360	16	20/1 CIRCULATION DESK RECEPTACLES
CIRC. 212/CORRIDOR O15 RECEPTACLES	20/1 17	540 180	18	20/1 CAB/DISPLAY RECEPTACLE
CIRCULATION DESK RECEPTACLES	20/1 19	360 1500	20	20/1 FICTION 209/207 LIGHTING
REFERENCE 201 LIGHTING	20/1 21	1250 1200	22	20/1 NON FICTION O15/DIR. OFFICE TECH. SERVICES LIGHTING
REFERENCE 201 RECEPTACLES	20/1 23	540 600	24	20/1 UNI-SEX 004 EF-A (EXH. FAN)
REFERENCE 201 RECEPTACLES	20/1 25	360 1000	26	20/1 CIRCULATION PENDANT LIGHTING
REFERENCE 201 RECEPTACLES	20/1 27	360 500	28	20/1 CIRCULATION DOWN LIGHTING
FICTION/AUDIO & VIDEO RECEPTACLES	20/1 29	500 1455	30	40/2 SPARE
ENTRY LIGHTING	20/1 31	350 1455	32	
STAIRS 105 LIGHTING	20/1 33	400 1455	34	30/2 SPARE
CORRIDOR 203 LIGHTING	20/1 35	800 1455	36	
VESTIBULE RECEPTACLES	20/1 37	500 500	38	20/1 ENTRY RECEPTACLES
RECEPTACLE MTD. BELOW THIS PANEL	20/1 39	180 256	40	20/1 MECH. ATTIC SERVICE LIGHTING
CONNECTED LOAD		15220	12516	NOTES
DEMAND 70%		10645	8761	(GF) GROUND FAULT (BL) BREAKER LOCK KIT
TOTAL DEMAND LOAD		19406		

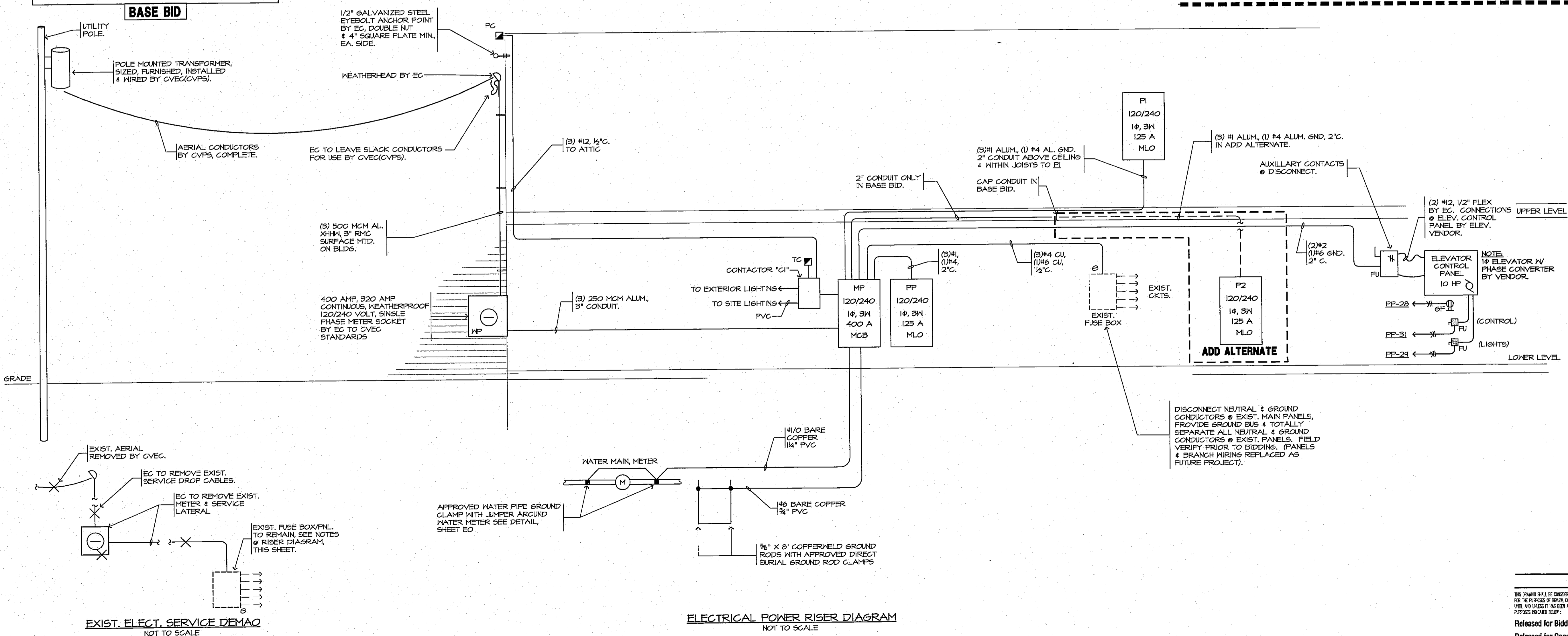
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TYPE: PANELBOARD <input type="checkbox"/> LOADCENTER <input type="checkbox"/> PLUG IN <input type="checkbox"/> BOLT ON <input type="checkbox"/> FAULT RATING: 10,000 d/c				
LOCATION: TECH. SERVICES	MOUNTING:			SURFACE
DIRECTORY	TRIP	AMP	BPO	DIRECTORY
CHILDRENS ROOM RECEPTACLES	20/1 1	540 900	2	20/1 MEETING ROOM RECEPTACLES
STORY/PROGRAM RECEPTACLES	20/1 3	360 120	4	20/1 AV/STORAGE/JUNIOR ROOM RECEPTACLES
JUNIOR ROOM WORK STATION RECEPTACLES	20/1 5	360 360	6	20/1 JUNIOR ROOM WORK STATION RECEPTACLES
SPARE	20/1 7	500 500	8	20/1 SPARE
UNI-SEX/CUSTOD. EXH. FAN (EF-A) X 2	20/1 9	800 540	10	20/1 KITCHEN UNI-SEX & CUSTODIAL RECEPTACLES
CIRCULATION COUNTER RECEPTACLES	20/1 11	360 360	12	20/1 CIRCULATION COUNTER RECEPTACLES
KITCHEN REFRIG. (EC TO CONFIRM)	20/1 13	1000 1100	14	20/1 KITCHEN MICROWAVE (EC TO CONFIRM)
SPARE	20/1 15	500 500	16	20/1 SPARE
STORY/PROGRAM LIGHTING	20/1 17	750 900	18	20/1 JUNIOR ROOM, CIRCULATION LIGHTING
CIRCULATION LIGHTING	20/1 19	600 780	20	20/1 MEETING ROOM LIGHTING
SPARE	20/1 21	500 500	22	20/1 SPARE
AV, STORAGE, CUSTOD, KITCHEN LIGHTING	20/1 23	610 640	24	20/1 CHILDRENS ROOM LIGHTING
SPARE	20/1 25	300 500	26	20/1 SPARE
SPARE	20/1 27	500 500	28	20/1 SPARE
SPARE	20/1 29	500 500	30	20/1 SPARE
SPARE	20/1 31	500 500	32	20/1 SPARE
SPARE	30/2 33	500 500	34	40/2 SPARE
SPARE	35	500 500	36	
SPARE	20/2 37	500 500	38	20/2 SPARE
SPARE	39	500 500	40	
CONNECTED LOAD		12250	10540	NOTES
DEMAND 70%		8575	7378	(GF) GROUND FAULT (BL) BREAKER LOCK KIT
TOTAL DEMAND LOAD		15453		

SUITABLE FOR USE AS SERVICE EQUIPMENT
36' WIDE, 12' DEEP, MAX. 72" HIGH.

BASE BID

BASE BID

ADD ALTERNATE



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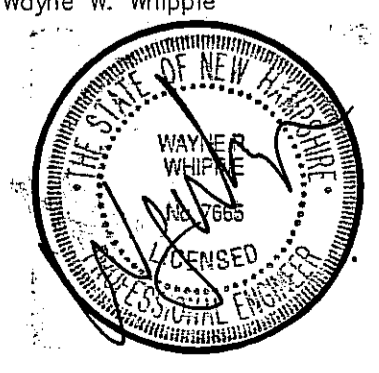
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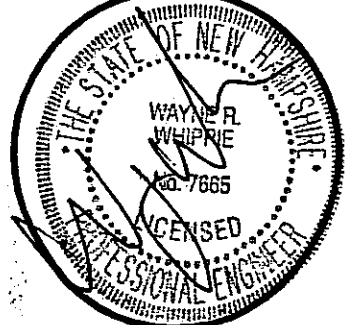
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PHILIP READ MEMORIAL LIBRARY ADDITION
1088 MAIN ST. RT. 12A
PLAINFIELD, NEW HAMPSHIRE
LIGHTING PLANS
SCALE AS SHOWN
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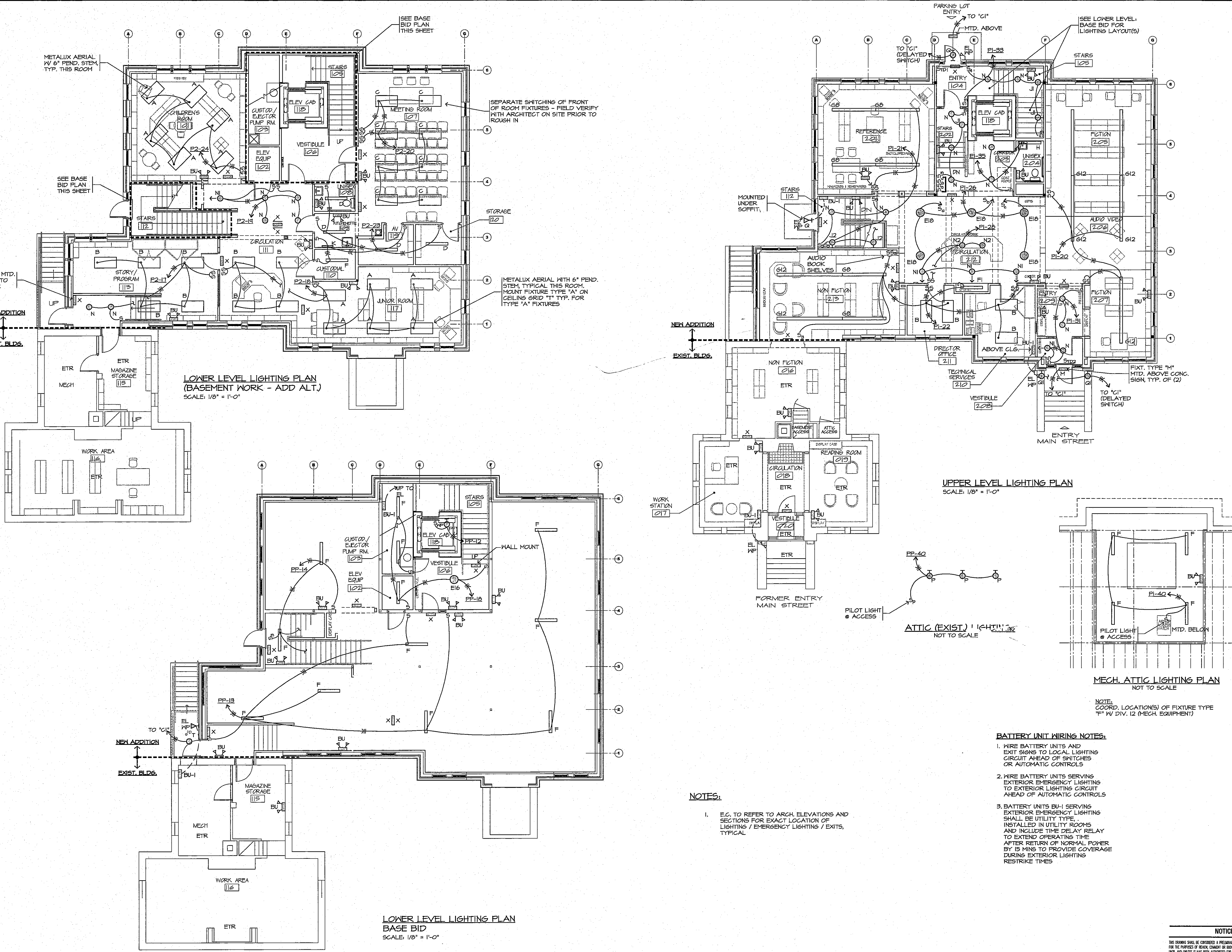
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PROJECT NO. 915
E2.0

PROJECT ENGINEER
Wayne R. Whipple



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NOTES:
1. E.G. TO REFER TO ARCH. ELEVATIONS AND SECTIONS FOR EXACT LOCATION OF LIGHTING / EMERGENCY LIGHTING / EXITS, TYPICAL

BATTERY UNIT WIRING NOTES:
1. WIRE BATTERY UNITS AND EXIT SIGNS TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHES OR AUTOMATIC CONTROLS
2. WIRE BATTERY UNITS SERVING EXTERIOR EMERGENCY LIGHTING TO EXTERIOR LIGHTING CIRCUIT AHEAD OF AUTOMATIC CONTROLS
3. BATTERY UNITS BU-1 SERVING EXTERIOR EMERGENCY LIGHTING SHALL BE UTILITY TYPE, INSTALLED IN UTILITY ROOMS AND INCLUDE TIME DELAY RELAY TO EXTEND OPERATING TIME AFTER RETURN OF NORMAL POWER BY 15 MINS TO PROVIDE COVERAGE DURING EXTERIOR LIGHTING RESTRIKE TIMES



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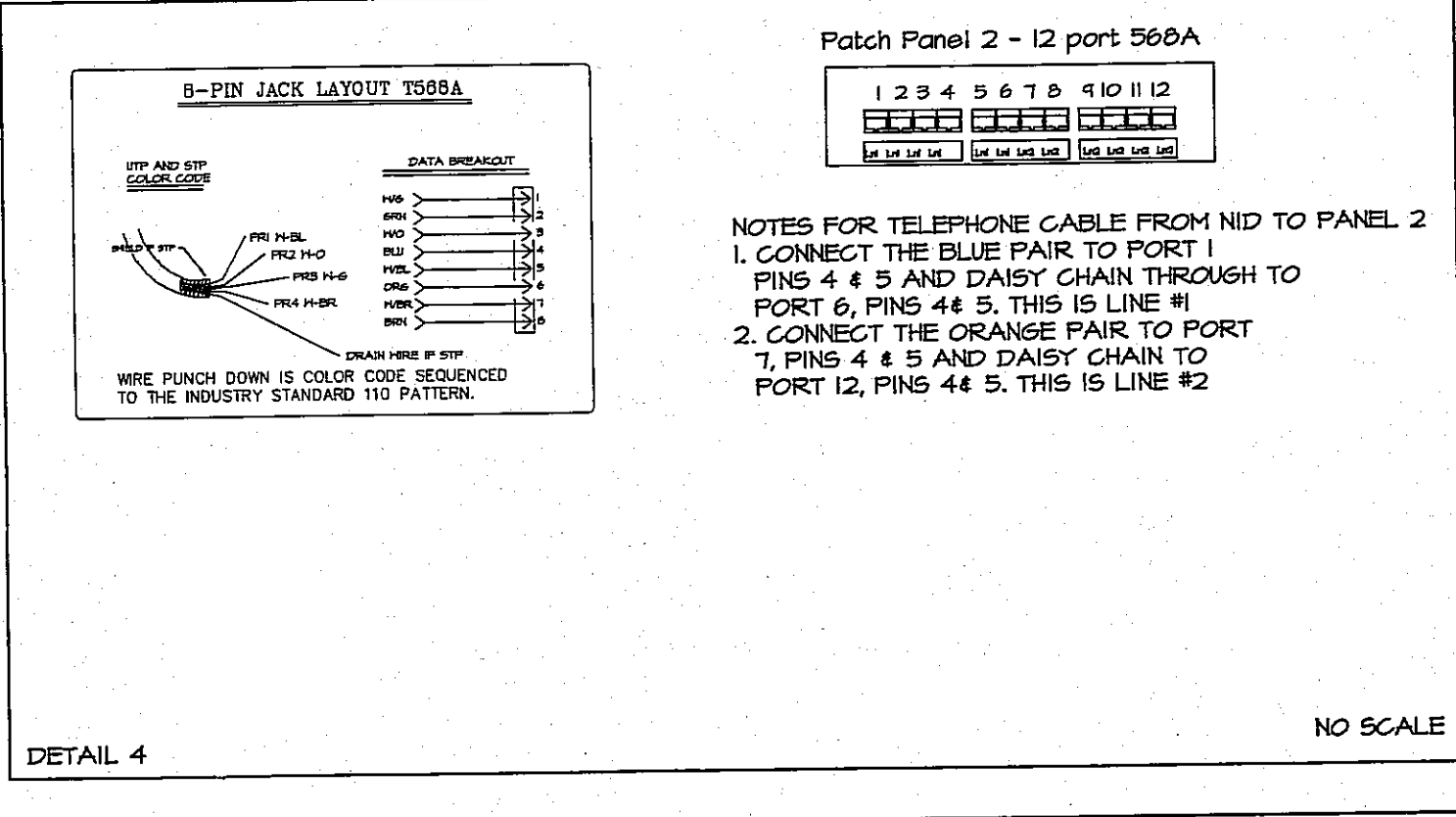
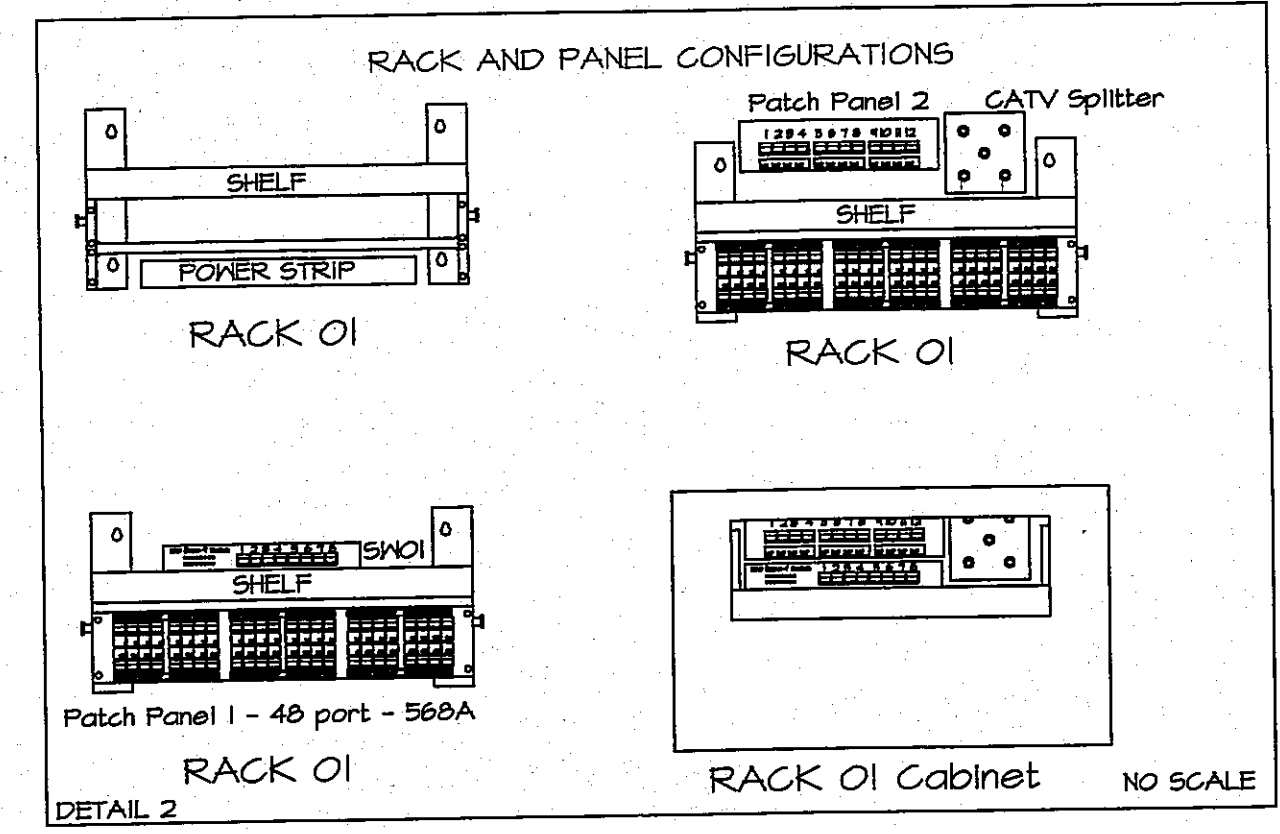
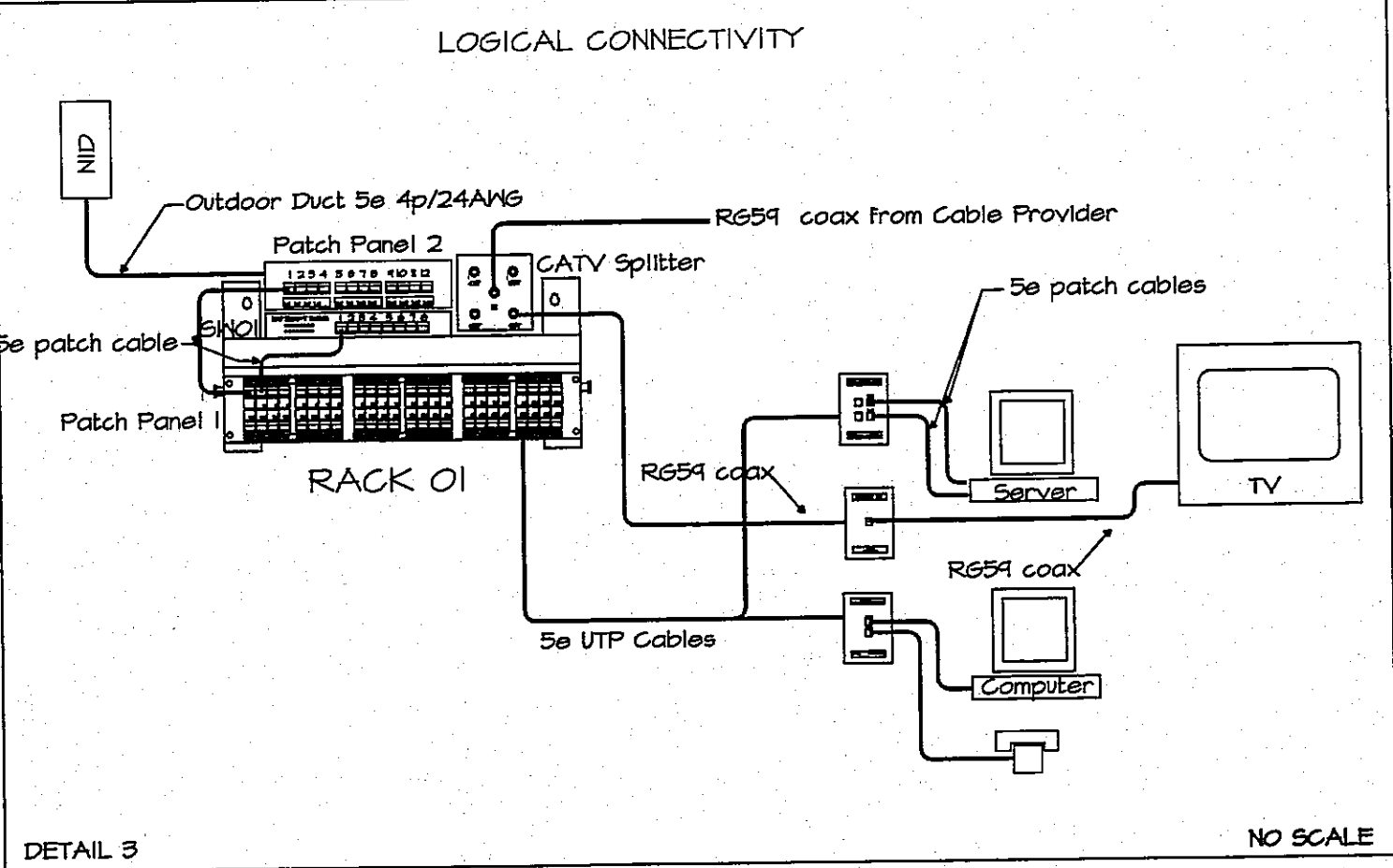
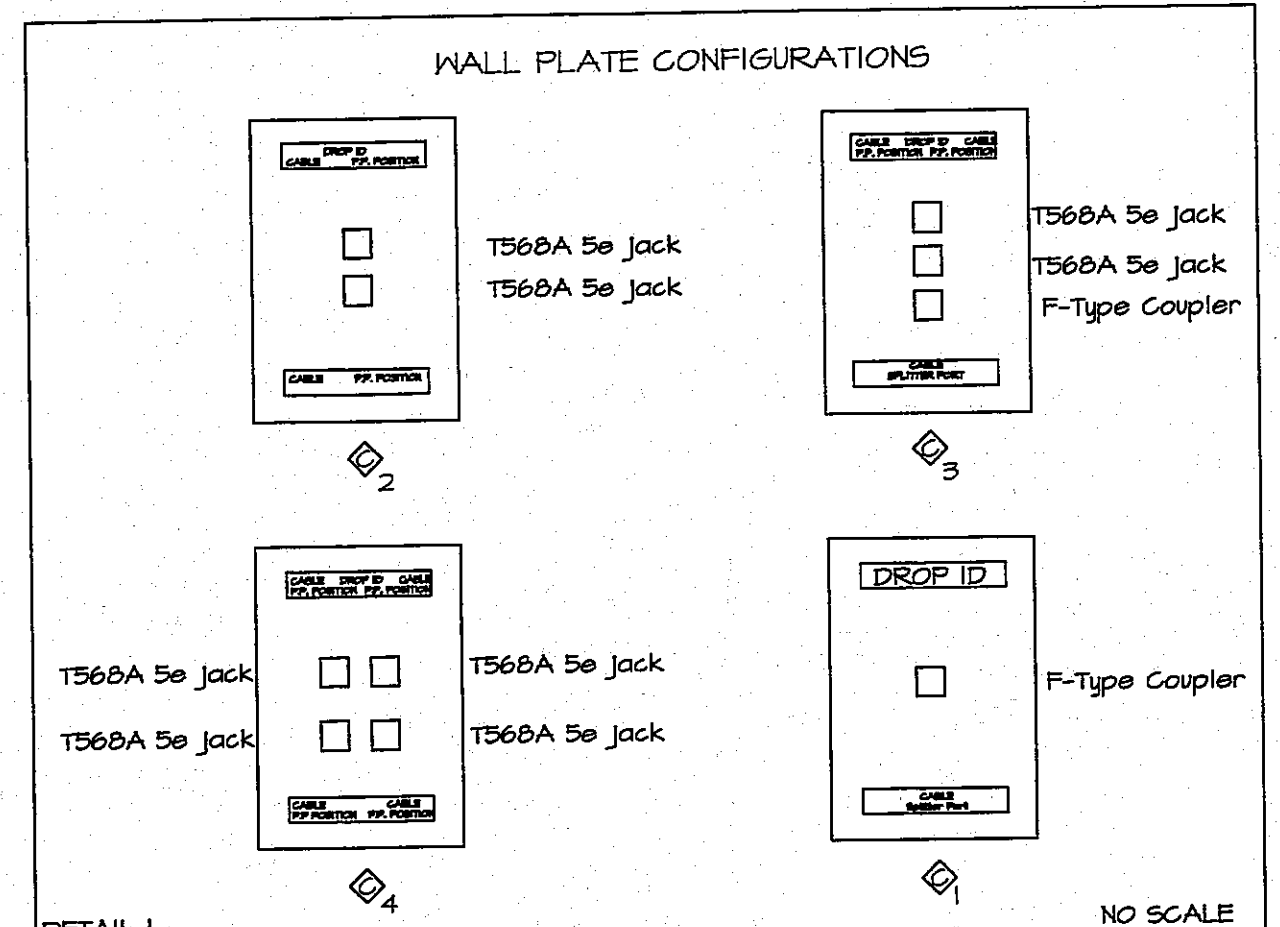
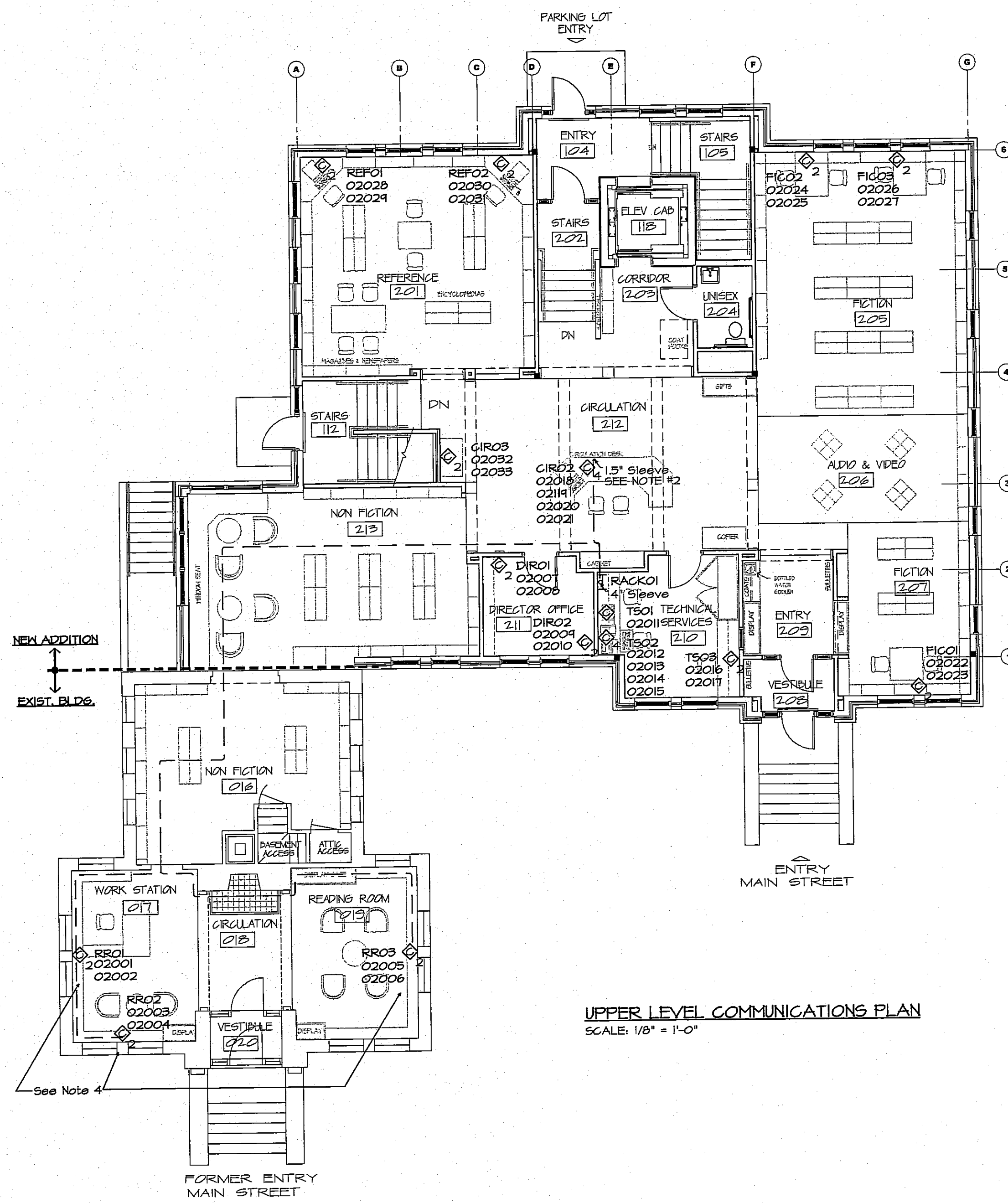
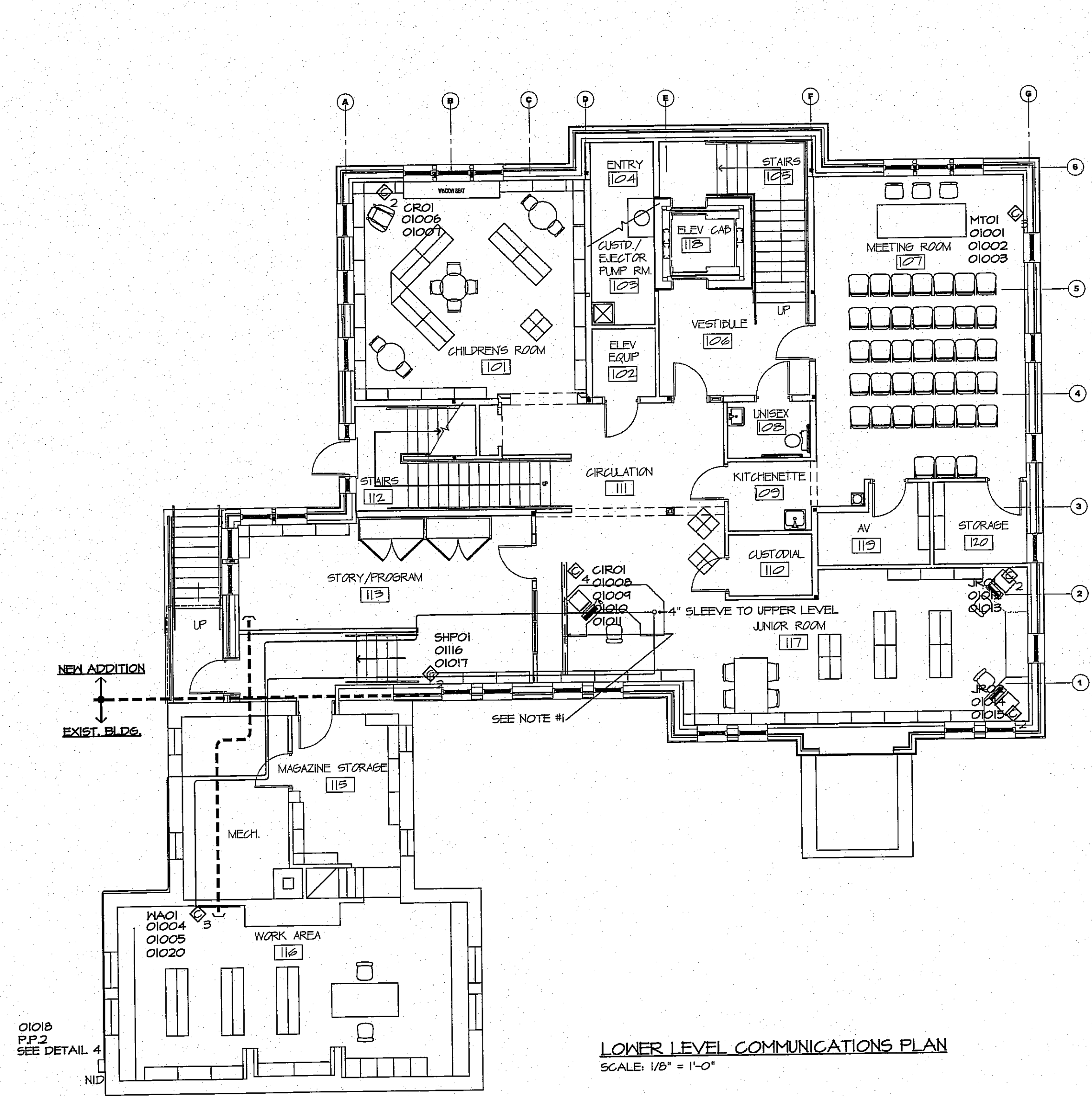
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1088 MAIN ST. RT 12A
PLAINFIELD, NEW HAMPSHIRE

COMMUNICATION PLANS

AS SHOWN
SCALE



LEGEND

- Enhanced Cat 5e copper 4pr. UTP cable routed in ceiling on this floor.
- Enhanced Cat 5e copper 4pr. UTP cables routed in the floor below.
- CAT 5 OSP 4PR/24AWG outdoor duct cable for telephone service.
- R659 COAX

Termination for (1) R659 coax cable terminated in a F-type coupler mounted in a single-gang 1-port wall plate.

Termination for (2) Enhanced Cat 5e copper cables terminated in Cat 5e T-568B jacks mounted in a single-gang two port wall plate.

Termination for (3) R659 coax cable terminated in a F-type coupler and (2) Enhanced Cat 5e copper cables terminated in Cat 5e T568A jacks and mounted in a single-gang 3-port wall plate.

Termination for (4) Enhanced Cat 5e copper cables terminated in Cat 5e T-568B jacks mounted in a single-gang four port wall plate.

CABLE NUMBERING

- Sequentially Numbered Drops
- Floor Number

DROP NUMBERING

- Drop # in area
- Room Name (Abr.)

NO SCALE

MATERIALS LIST

- 4000 FT. Mohawk/CDT MegaLan 400 Enhanced Cat. 5e non-plenum, blue #R659A9
- 150 FT. Mohawk/CDT MegaLan 400 LAN-Trak OSP 4 pr. 24 AWG Outdoor Aerial/Duct #H5T561
- 400 FT. R659, 75 ohm coax
- 2 bags Hubbell HDSE Series Cat. 5e Jacks, T568A, Electric Ivory #HDEA2 25 per bag
- 3 Hubbell F-type Coupler Bulkhead F/F, Electrical Ivory #FFEX
- 16 Hubbell IFF plates, single-gang, 2-port, Electrical Ivory #FFI2E1
- 3 Hubbell IFF plates, single-gang, 4-port, Electrical Ivory #FFI4E1
- 2 Hubbell IFF plates, single-gang, 3-port, Electrical Ivory #FFI3E1
- 1 Hubbell IFF plates, single-gang, 1-port, Electrical Ivory #FFI1E1
- 1 INNOdata, EZ Mount Secur-A-Shelf 22"x18"x13"H Phone 888-334-3430
- 1 INNOdata EZ Mount Network Shelf, hold 48 pos Patch Panel, shelf for ethernet switch and opt. power strip.
- 1 Hubbell SPEEDGAIN Cat. 5e Patch Panel, 48 port, T568A #PE48PE4E
- 1 Hubbell Cat. 5e Front Access Panel, 12 position T568A #FPE12AF
- 12 Hubbell SPEEDGAIN Xcelerator Cat. 5e Patch Cords 3' length, blue #PCSEPB03
- 6 Hubbell SPEEDGAIN Xcelerator Cat. 5e Patch Cords 3' length, red #PCSEPR03
- 12 Hubbell SPEEDGAIN Xcelerator Cat. 5e Patch Cords 12' length, blue #PCSEPB12
- 1 bag Hubbell Color Code Icons (10) color blue, #IBLU50
- 1 bag Hubbell Color Code Icons (10) color red, #IBRED50
- 3 12' R659 coax patch cords with F-type connectors #6AWG grounding wire for rack.
- 212 Small wrap around cable labels Brady DAT 35-242-10 Any other hardware required, ex. J brackets, beam clamps, non-metallic raceways, additional F-type coax connectors, 4 port CATV splitter, etc.

DRAWING NOTES:

- A 1" CONDUIT IS NEEDED TO PROVIDE A PATH TO THE CIRCULATION COUNTER. INSTALL IN CONCRETE FLOOR AND STUB UP IN HALL ABOVE DROP CEILING AND FLUSH WITH FLOOR UNDER FRONT EDGE OF COUNTER.
- A 15" SLEEVE IS NEEDED IN FLOOR UNDER THE FRONT EDGE OF THE CIRCULATION COUNTER TO PROVIDE A PATH FOR DATA CABLES.
- CABLES FOR CIR02 DROP LOCATION WILL BE RUN FROM THE PANEL, DOWN THROUGH THE 4" SLEEVE, ABOVE THE DROP CEILING ON THE LOWER LEVEL, UP THROUGH THE 15" SLEEVE AND INTO THE COUNTER.
- CABLES FOR DROPS RR01-RR03 WILL HAVE TO BE ROUTED THROUGH THE 4" SLEEVE AND ABOVE THE DROP CEILING ON THE LOWER LEVEL AND INTO THE EXISTING BUILDING AND UP THROUGH THE FLOOR SINCE THE EXISTING BUILDING HAS SHEETROCK WALLS AND CEILINGS, HUBBELL NON-METALLIC SURFACE RACEWAY CAB BE USED TO MINIMIZE CUSTOMER TELEPHONE OUTAGE. IT IS SUGGESTED THAT THE CABLE TO THE NID BE HOOKED UP AFTER THE REST OF THE INSTALLATION IS INSTALLED AND TESTED PRIOR TO REMOVING THE EXISTING TELEPHONE CABLES AND JACKS AND CONNECTING TO THE NID.
- THE CATV COAX CABLE CAN BE ROUTED THE SAME AS THE TELEPHONE CABLE SHOWN ON THE DRAWING FOR THE LOWER LEVEL.
- RED ICONS ARE FOR JACKS THAT ARE PATCHED TO PANEL 2 FOR VOICE AND BLUE ICONS ARE FOR JACKS THAT ARE PATCHED TO PANEL 1 FOR 100-BASE-T ETHERNET

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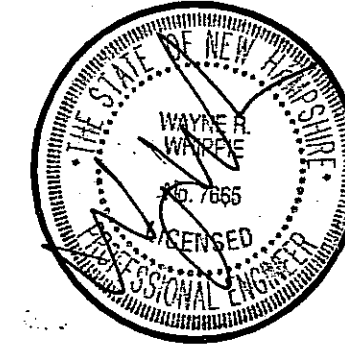
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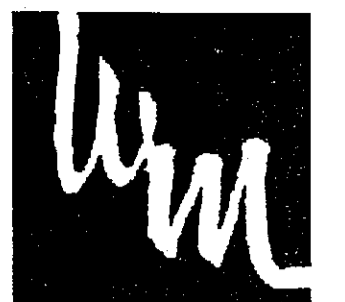
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COMMUNICATION PLANS

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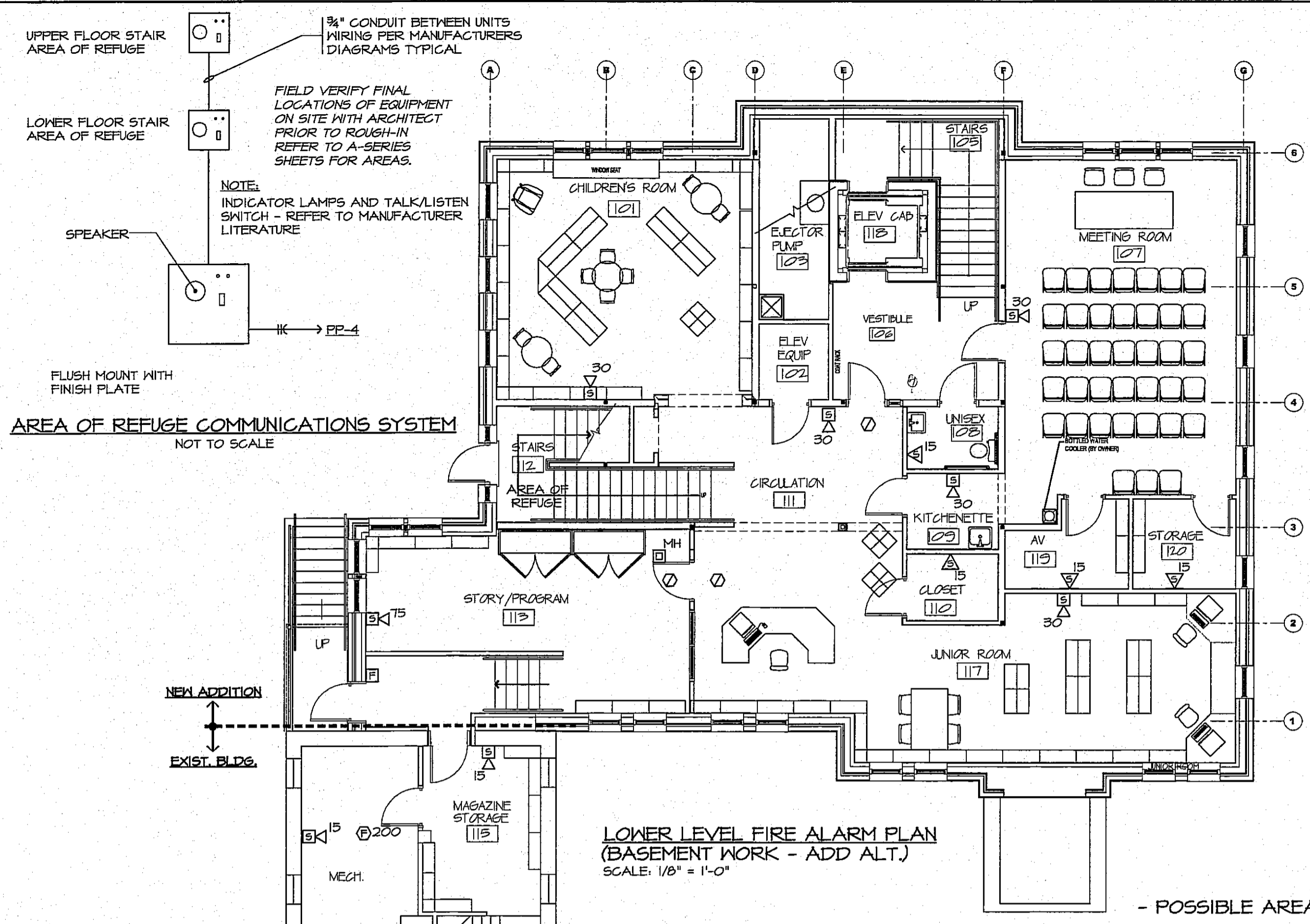
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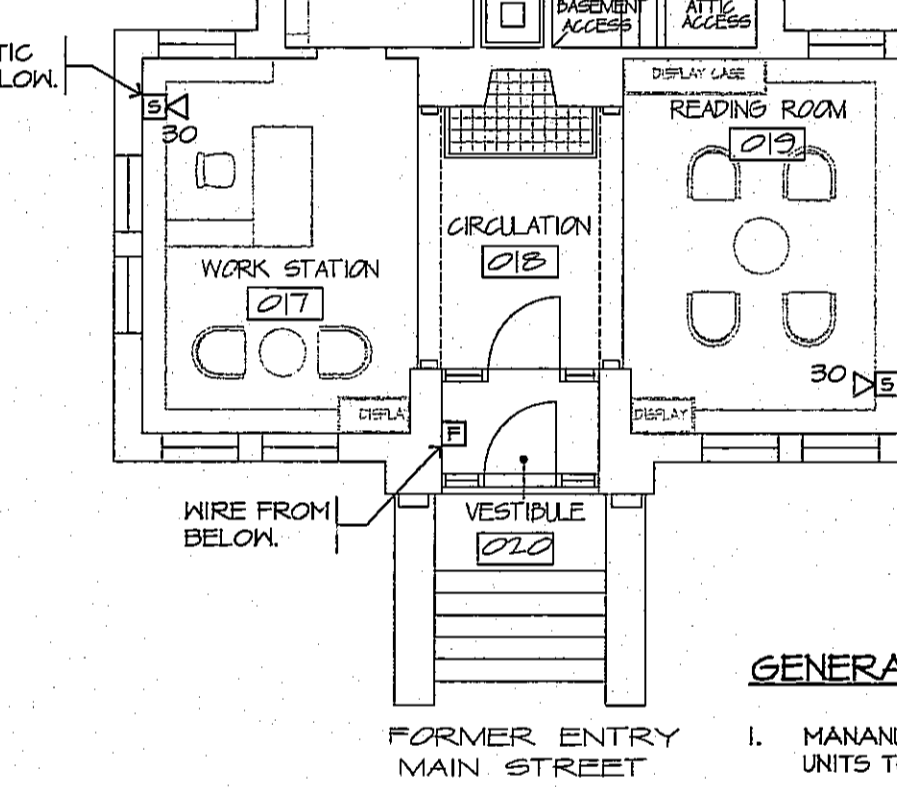
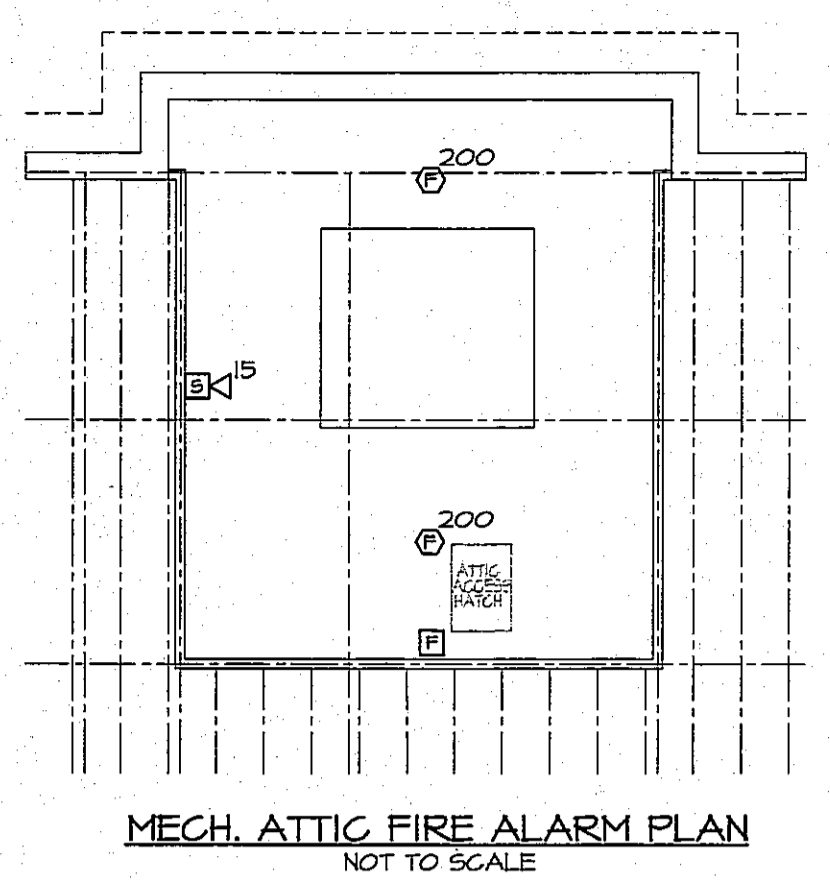
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FIRE ALARM PLANS

SCALE: AS SHOWN

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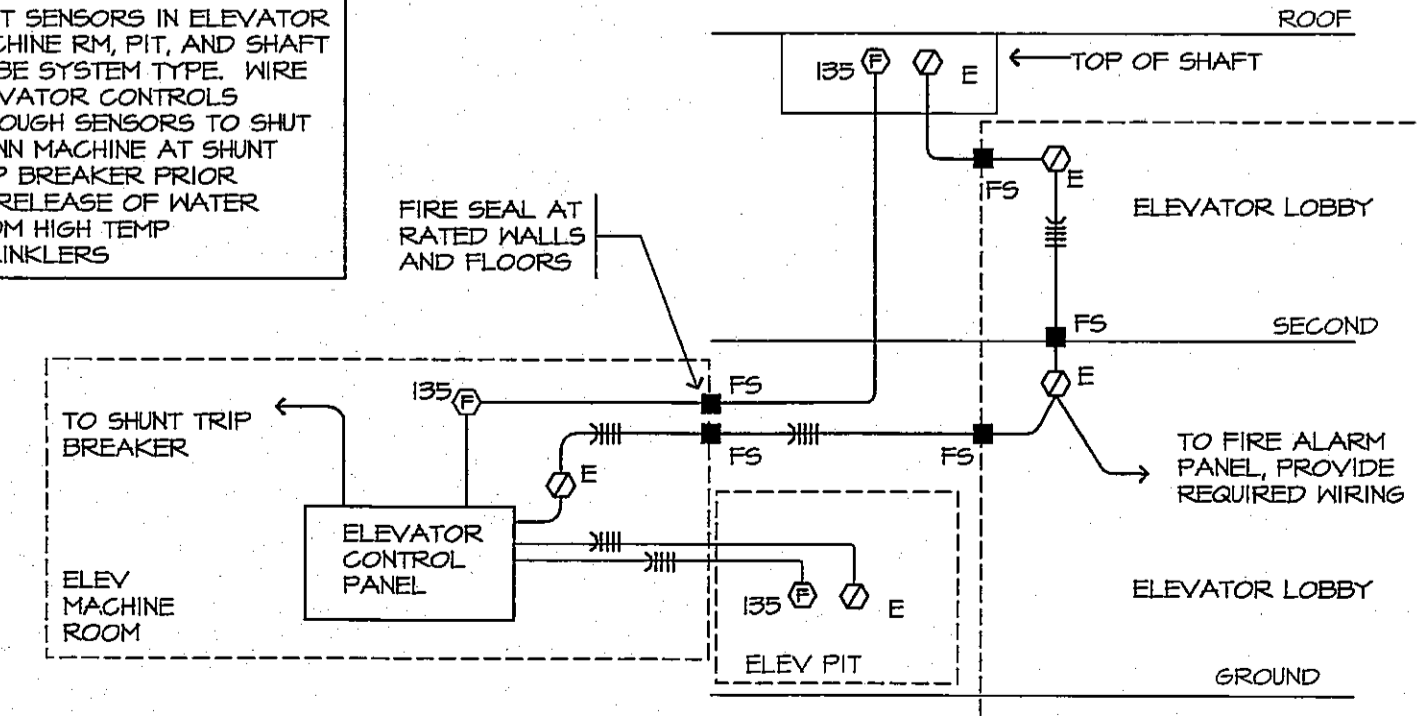
- LAYOUT NOTES:**
1. ALL SPEAKER / STROBE AND STROBE ONLY UNITS TO BE AT 80 INCHES ABOVE FINISHED FLOOR WHERE WALL MOUNTED
 2. CANDELLA RATINGS CALLED FOR TO COORDINATE WITH LAYOUTS AND SPACINGS SHOWN. NOTIFY ENGINEER, IN WRITING, OF ANY PROPOSED RELOCATIONS MORE THAN 5 FEET FROM LOCATIONS SHOWN. DO NOT PROCEED WITH ROUGH-IN AT ALTERNATE LOCATIONS WITHOUT WRITTEN APPROVAL. ADJUST CANDELLA RATINGS AS NEEDED
 3. COORDINATE INSTALLATION WITH GC AND OTHER TRADES PRIOR TO ROUGH-IN TO RESULT IN INSTALLATION WHERE SHOWN
 4. PULL STATIONS TO BE LOCATED WITHIN 5 FEET OF DOOR HAY
 5. SMOKE DETECTORS ON EITHER SIDE OF DOORS HELD OPEN BY MAG-DOOR HOLDERS TO BE LOCATED WITHIN 5 FEET OF DOOR



- GENERAL FIRE ALARM NOTES:**
1. MANUAL SYSTEM WITH DUCT SMOKE DETECTORS UNITS TO BE AT 80 INCHES ABOVE FINISHED FLOOR
 2. DIALLER / COMMUNICATOR TO CONTACT FIRE DEPT
 3. HARDWIRED, NON-ADDRESSIBLE SYSTEM
 4. VOICE ANNUNCIATION FOR LIBRARY AS PLACE OF ASSEMBLY
 5. MAIN PANEL @ ENTRY
 6. FLUSH KEY "KNOX BOX" AT EXTERIOR
 7. REFER TO SHEET EO-0 FOR DEVICE MOUNTING HEIGHTS
 8. DIALLER TO CONNECT TO HANOVER FIRE DEPARTMENT.
 9. PROVIDE CUT-OFF LINE FOR ELEVATOR.

LOBBY AND ELEVATOR MACHINE ROOM SMOKE SENSORS WITH AUX CONTACTS IN BASE, WIRED TO FIRE ALARM SYSTEM, AUX CONTACTS WIRED TO CONTROL ELEVATOR RECALL FUNCTIONS. WIRING WITHIN ELEVATOR CONTROL PANEL BY ELEVATOR VENDOR

HEAT SENSORS IN ELEVATOR RM PIT, AND SHAFT TO BE SYSTEM TYPE. WIRE ELEVATOR CONTROLS THROUGH SENSORS TO SHUT DOWN MACHINE AT SHUNT TRIP BREAKER PRIOR TO RELEASE OF WATER FROM HIGH TEMP SPRINKLERS



- NOTES**
1. PROVIDE SMOKE SENSOR AT BOTH SIDES
 2. LOCATE WITHIN 5 FEET OF DOOR PER NFPA T2 5-10.1.5.1.6
 3. CENTER ON DOORWAY PER NFPA T2 5-10.1.5.1.6
 4. MOUNT MAG HOLDERS AS SHOWN
 5. PROVIDE EXTENSIONS ON MAG HOLDERS WHERE REQUIRED SEE DETAILS
 6. NOTES 2 AND 3 DO NOT APPLY WHERE FULL CORRIDOR SMOKE SENSOR COVERAGE IS PROVIDED

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