

CITY OF MERCER ISLAND

Community Planning & Development

9611 SE 36TH STREET | MERCER ISLAND, WA 98040
PHONE: 206.275.7605 | www.mercerisland.gov



INSPECTION REQUESTS:

online:



voicemail: (206) 275-7730

NOTE: ALL RECORDS AND DRAWINGS ARE SUBJECT TO PUBLIC DISCLOSURE AS REQUIRED BY RCW 42.56

CONTACT INFORMATION:

Applicant is to complete the following information.

Applicant Contact information prior to permit issuance: Name, Address, Phone, Email
Applicant Contact information post permit issuance: Name, Address, Phone, Email

REQUIRED SPECIAL INSPECTIONS / STRUCTURAL OBSERVATIONS:

It is the Engineer of Record's responsibility to specify all required Special Inspections or Structural Observation (check items below). The owner is responsible for hiring an approved private Special Inspector for the checked inspections noted below.

STRUCTURAL OBSERVATION BY ENGINEER OF RECORD (EOR): Engineer of Record, Company, Phone, General Conformance to Construction Documents, Other

SOILS / GEOTECHNICAL: Special Inspector, Company, Phone, Erosion control measures, Subsurface drainage placement, Shoring installation and monitoring, Verify fill material and compaction, etc.

REINFORCED CONCRETE: Special Inspector, Company, Phone, Concrete strength, Retaining wall construction, Reinforcing steel and concrete placement, etc.

STRUCTURAL STEEL: Special Inspector, Company, Phone, Fabrication and shop welds, Moment Frame construction, Structural steel erection, field welds and bolting, etc.

STRUCTURAL MASONRY: Special Inspector, Company, Phone, Mortar strength, Glass unit masonry installation, Masonry unit strength, Wall panel and veneer installation, etc.

WOOD: Special Inspector / Engineer of Record, Company, Phone, Lateral resisting system construction, High strength diaphragm construction, etc.

OTHER SPECIAL INSPECTIONS: Special Inspector, Company, Phone, Epoxy grout installations, Stucco installation, Expansion anchor installations, Infiltration System, etc.

DEFERRED SUBMITTALS:

The Applicant is required to select all deferred submittals / shop drawings for submittal to the City for review and approval prior to item fabrication / construction.

Connector plate wood trusses, Post tension layout, Metal joist / metal trusses, Exterior cladding, etc.

ENERGY CODE COMPLIANCE INFORMATION:

Indicate where the following information is located in the drawing set. Alternatively, incorporate or include the Residential Energy Code Prescriptive Compliance (RECPC) Form into the drawing set.

Building envelope, Air Leakage Testing, Whole house ventilation, Duct Leakage Testing, Energy Credit Information, etc.

TO BE COMPLETED BY CPD

PROJECT ALERTS: Construction of the project shall be from approved plans only. No deviation from the approved project plans is allowed without prior approval from the City of Mercer Island.

TREE PROTECTION REQUIREMENTS: Tree protection as shown on approved drawings shall be installed at tree dripline prior to start of any site work and must remain in place throughout the project.

FIRE PROTECTION REQUIREMENTS: Separate Permits are required for ALL fire protection systems. Fire Sprinkler, Monitored Household Fire Alarm, etc.

WATER SUPPLY REQUIREMENTS: Fire sprinkler design calculations must be provided prior to determining water supply system requirements. Water Supply system upgrade required, etc.

DRAINAGE REQUIREMENTS: On site detention system required, Direct discharge into the lake, No Storm Water permit required, etc.

SIDE SEWER REQUIREMENTS: Side sewer requires a backflow preventer when connecting to the lake line or when the elevation of the lowest plumbing fixture is lower than the elevation of the upstream manhole rim.

APPROVED CODE ALTERNATIVES: Code alternatives must be inspected. Refer to the Inspection Checklist. CA1, CA2

SURVEY REQUIREMENTS: Surveyor shall verify points chosen for height calculations and point verification shall be submitted at the time of City foundation inspection.

MAXIMUM 40 PERCENT ALTERATION INSPECTION: A Building Inspection prior to demolition is required for all legally nonconforming single family dwelling to ensure no more than 40 percent of the dwelling's exterior walls are structurally altered.

GEOTECHNICAL INFORMATION: Land clearing, grading, filling and foundation work within geologic hazard areas is NOT PERMITTED between October 1 and April 1 without an approved Seasonal Development Limitation Waiver.

SEASONAL DEVELOPMENT LIMITATION RESTRICTION: Applies (Geologic Hazard area). Grading not permitted between October 1 through April 1. Waiver approved. Grading and excavation permitted subject to all conditions noted in Seasonal Development Limitation Waiver Permit.

TO BE COMPLETED BY CPD

TO BE COMPLETED BY CPD

REQUIRED CONSTRUCTION INSPECTIONS: Inspector shall initial and date appropriate inspection only if approved. Tree protection, Erosion control, Sewer disconnect and cap, etc.

TO BE COMPLETED BY CPD

Final Inspection: Tree Restoration, Fire protection, Fuel Tank Installation, Fire Extinguishing System, etc.

90 DAY TEMPORARY CERTIFICATE OF OCCUPANCY (TCO): Applicant option. Additional fees will be required and must be approved prior to occupancy.

ADDITIONAL REQUIRED CITY INSPECTIONS: Call the appropriate contact to arrange the inspection. Required Inspection(s), Contact, Phone, Scheduling

IMPACT FEES: Impact fees apply and are due prior to Final Inspection or on date, whichever occurs first. PLAN REVIEW APPROVALS: Not all review disciplines may be required to review the documents.

TO BE COMPLETED BY CPD

TO BE COMPLETED BY APPLICANT



CERTIFICATE OF OCCUPANCY Issued after all required inspections have been performed and approved.

PROJECT NAME: PROJECT ADDRESS:

APPROVED DRAWINGS MUST BE KEPT ON THE BUILDING SITE AT ALL TIMES REVIEWED FOR CODE COMPLIANCE

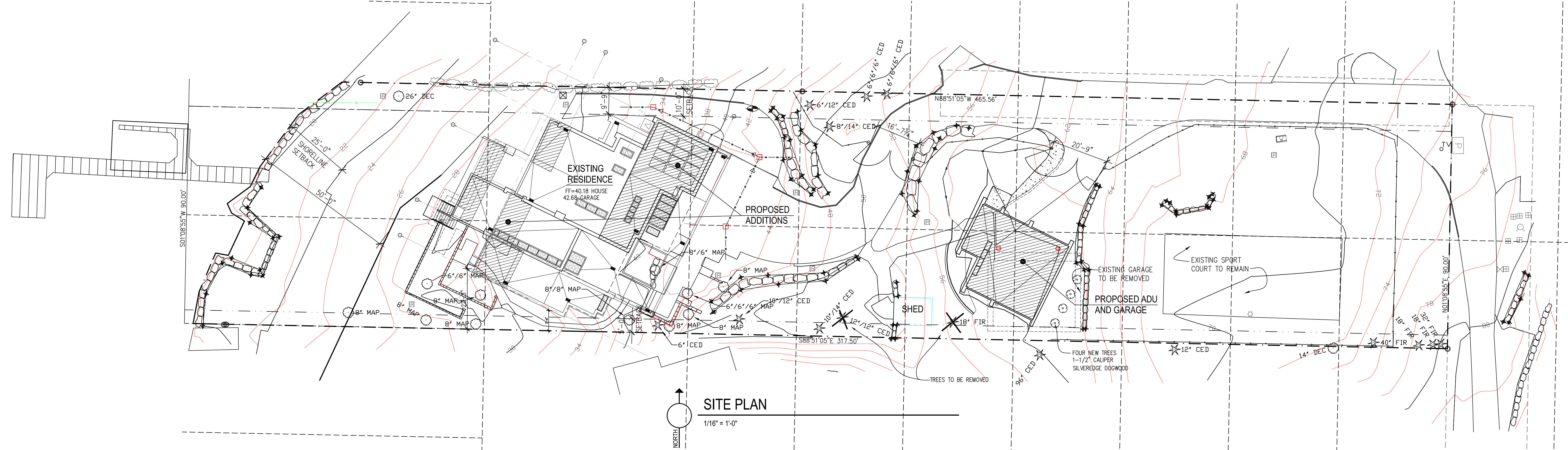
PERMIT NUMBER

Approved Date

Approved Date

Approved Date

Approved Date



GENERAL NOTES

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MAY BE REPRODUCED ONLY WITH THE WRITTEN PERMISSION OF THE ARCHITECT. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME OF THE ARCHITECT. COPYRIGHT 2023 BY CHESMORE|BUCK ARCHITECTURE. THESE DRAWINGS ARE FULLY PROTECTED BY FEDERAL AND STATE COPYRIGHT LAWS. ANY INFRINGEMENT WILL BE VIGOROUSLY PROSECUTED.

ALL CONSTRUCTION SHALL CONFORM TO THE 2015 INTERNATIONAL RESIDENTIAL CODE (IRC) AND BE IN ACCORDANCE WITH THE WASHINGTON STATE LAWS AND REGULATIONS AND VARIOUS CODES IMPOSED BY LOCAL AUTHORITIES.

CONTRACTOR'S RESPONSIBILITY:
CONTRACTOR TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES PRIOR TO CONSTRUCTION. CONTRACTOR TO INFORM ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES.

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON THE DRAWING ONLY WILL NOT SATISFY THIS REQUIREMENT.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM HIS WORK.

ALL STRUCTURAL SYSTEMS SUCH AS WOOD TRUSSES WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERRECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT IF UNUSUAL, UNFORESEEABLE, OR UNEXPECTED SUBSURFACE CONDITIONS ARE ENCOUNTERED.

BECAUSE THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, THE CONTRACTOR SHALL, BEFORE STARTING EACH PORTION OF THE WORK, CAREFULLY STUDY AND COMPARE THE VARIOUS CONTRACT DOCUMENT RELATIVE TO THAT PORTION OF THE WORK, AS WELL AS THE INFORMATION PROVIDED BY THE OWNER. SHALL TAKE FIELD MEASUREMENTS OF ANY EXISTING CONDITIONS RELATED TO THAT PORTION OF THE WORK AND SHALL OBSERVE ANY CONDITIONS AT THE SITE AFFECTING IT. THESE OBLIGATIONS ARE FOR THE PURPOSE OF FACILITATING COORDINATION AND CONSTRUCTION BY THE CONTRACTOR. THE CONTRACTOR SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED BY OR MADE KNOWN TO THE CONTRACTOR AS A REQUEST FOR INFORMATION IN SUCH FORM AS THE ARCHITECT MAY REQUIRE. THE CONTRACTOR'S REVIEW IS MADE IN THE CONTRACTOR'S CAPACITY AS A CONTRACTOR AND NOT AS A LICENSED DESIGN PROFESSIONAL.

PROJECT NOTES

PROPOSED ADDITION TO EXISTING RESIDENCE AND NEW ADU/GARAGE

OWNERS
STEVE KAO & HUI HONG
21722 CHINOOK ROAD
WOODWAY, WA 98020

ZONING
R-15

PROPERTY TAX ACCT#
PROPERTY TAX ACCOUNT NUMBER: 294890-0015

LEGAL DESCRIPTION
GROVELAND PARK ADD VAC 3-4 & S 10 FT OF 2 & SH LIDS ADJ & VAC ST ADJ IN BLK 22 & VAC N 40 FT OF 16 THRU 22 & VAC S 50 FT OF 9 THRU 15 & VAC ST ADJ IN BLK 2

LOT COVERAGE

TOTAL LOT AREA:	42,797 S.F.	NET LOT AREA	39,844 S.F.
LOT COVERAGE:			
HOUSE W/ ADDITIONS	5,266 S.F.		
DADU	1,108 S.F.		
SHED	143 S.F.		
STRUCTURAL TOTAL	6,517 S.F.		
SPORT COURT	1,950 S.F.		
DRIVING SURFACES	6,766 S.F.		
TOTAL	15,233 S.F.		
HARDSCAPE MAX. ALLOWED 9% OF 42,797 S.F. = 3,852 S.F.			
STEPPING STONES & ROCKERIES	976 S.F.		
40% ALLOWABLE LOT COVERAGE OR 17,119 S.F.			

GROSS FLOOR AREA

BASEMENT	640 S.F.
MAIN FLOOR	3,916 S.F.
UPPER FLOOR	1,908 S.F.
DADU	1,952 S.F.
TOTAL	8,416 S.F.
ALLOWABLE GROSS FLOOR AREA	12,000 S.F.

LOT SLOPE CALCULATION

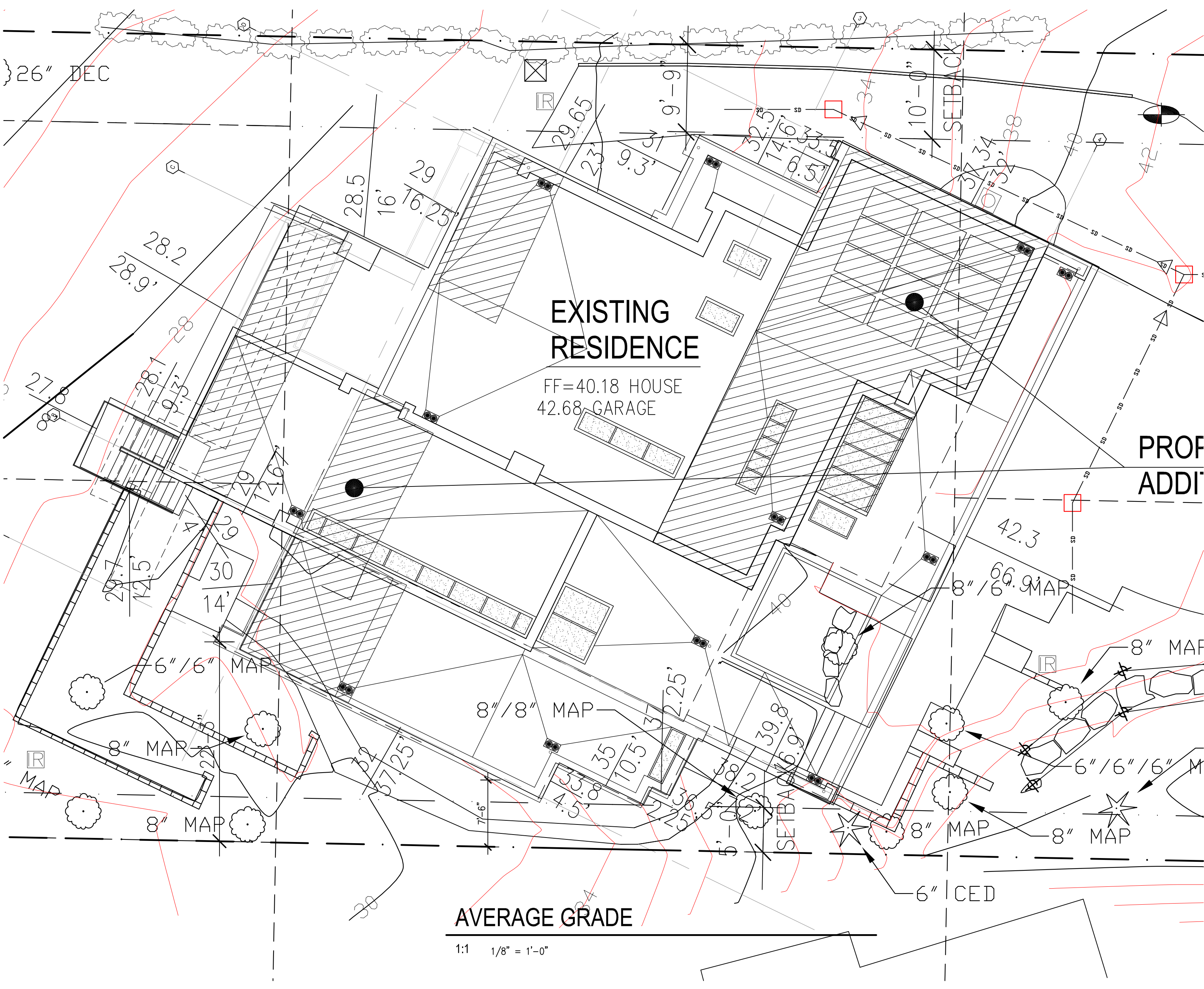
HIGH POINT 80'-LOW POINT 18'=62' DIFFERENCE
62'/438.3' HORIZONTAL DISTANCE=100=12.8% LOT SLOPE

FIRE SPRINKLERS

PROVIDE A NFPA 130 FIRE SPRINKLER SYSTEM THROUGHOUT THE MAIN HOUSE. THIS SYSTEM WILL REQUIRE A SEPARATE FIRE PERMIT.
PROVIDE THE DADU WITH A NFPA 130 MONITORED FIRE ALARM SYSTEM.

SHEET INDEX

SF	MERCER ISLAND COVER SHEET
1.0	SITE PLAN
0.0	SITE SURVEY
C-1	CSWPP PLAN
C-2	DRAINAGE PLAN
0-3	DETAILS
2.0	LOWER FLOOR DEMOLITION PLAN
2.1	MAIN FLOOR DEMOLITION PLAN
2.2	UPPER FLOOR DEMOLITION PLAN
3.0	LOWER FLOOR PLAN
3.1	MAIN FLOOR PLAN
3.2	UPPER FLOOR PLAN
4.0	SCHEDULES
4.1	SCHEDULES
4.2	DETAILS
5.0	EXTERIOR ELEVATIONS
5.1	EXTERIOR ELEVATIONS
6.0	BUILDING SECTIONS
6.1	BUILDING SECTIONS
6.2	BUILDING SECTIONS
6.3	WALL SECTIONS
7.0	INTERIOR ELEVATIONS
7.1	INTERIOR ELEVATIONS
7.2	INTERIOR ELEVATIONS
7.3	INTERIOR ELEVATIONS
7.4	INTERIOR ELEVATIONS
7.5	INTERIOR ELEVATIONS
7.6	INTERIOR ELEVATIONS
7.7	INTERIOR ELEVATIONS
7.8	INTERIOR ELEVATIONS
7.9	INTERIOR ELEVATIONS
E.1	LOWER FLOOR ELECTRICAL PLAN
E.2	MAIN FLOOR ELECTRICAL PLAN
E.3	UPPER FLOOR ELECTRICAL PLAN
S.1	FOUNDATION PLAN
S.2	MAIN FLOOR FRAMING PLAN
S.3	UPPER FLOOR / LOWER ROOF FRAMING PLAN
S.4	ROOF FRAMING PLAN
S1.0	GENERAL STRUCTURAL NOTES
S1.1	GENERAL STRUCTURAL NOTES
S1.2	GENERAL STRUCTURAL NOTES
S3.0	DETAILS
S3.1	DETAILS
S4.0	TYPICAL WOOD DETAILS
S4.1	TYPICAL WOOD DETAILS
S4.2	FLOOR DETAILS
S4.3	DECK DETAILS
S4.4	WOOD DETAILS
S4.5	PARAPET AND FLAT ROOF DETAILS
S5.0	STEEL DETAILS
S6.0	WOOD AND STEEL DETAILS
DADU PLANS	
2.0	FLOOR PLANS/FRAMING PLANS
2.1	SCHEDULES AND NOTES
2.2	ELECTRICAL PLANS
3.0	EXTERIOR ELEVATIONS/SECTIONS
3.1	DETAILS



length elevation axb

32	37.34	1194.88
6.5	33.5	217.75
14.6	32.5	474.5
9.3	31	288.3
23	29.65	681.95
16.25	29	471.25
16	28.5	456
28.9	28.2	814.98
9.3	28.1	261.33
8	27.8	222.4
12.5	29.7	371.25
4	29	116
14	30	420
37.25	32	1192
4.5	33.8	152.1
10.5	35	367.5
2.25	36.5	82.125
2.25	37	83.25
7.2	38.2	275.04
16.9	39.8	672.62
66.9	42.3	2829.87
342.1		11645.1

34.04 average grade

DADU AVERAGE GRADE

length elevation axb

29.5	59	1740.5
31	60	1860
37	60.1	2223.7
19	59.2	1124.8
8	59.1	472.8
12	59.1	709.2

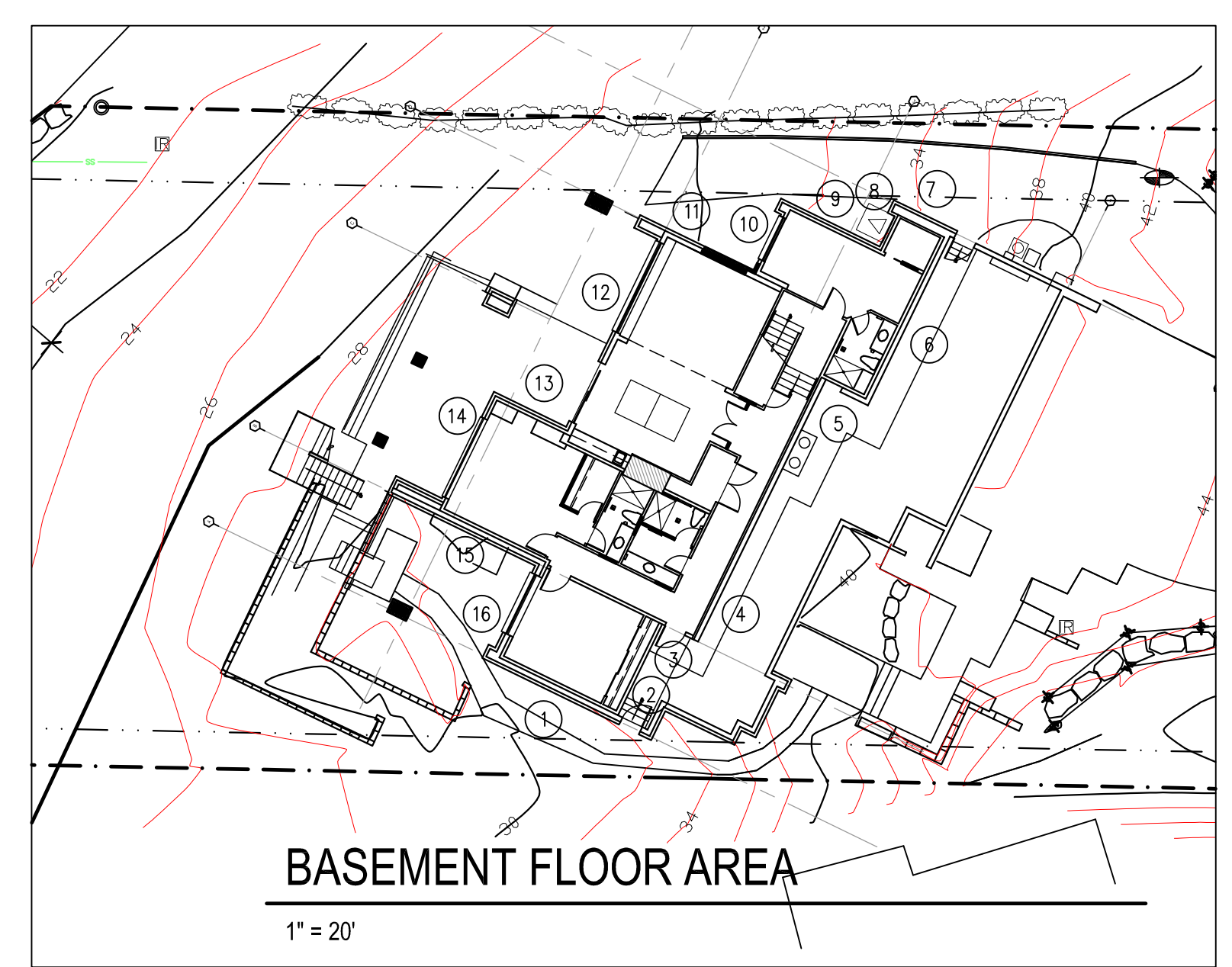
136.5 8131

59.57 average grade

WALL SEGMENT# LENGTH % COVERAGE SEGMENT LENGTH

1	20	0.27	5.4
2	14	0.27	3.78
3	5	0.44	2.2
4	40	0.44	17.6
5	5	0.44	2.2
6	26	0.53	13.78
7	8	0.53	4.24
8	6	0.53	3.18
9	14	0.35	4.9
10	14	0.18	1.44
11	14	0.18	1.44
12	30	0.05	1.5
13	11	0	0
14	20	0	0
15	16	0.27	4.32
16	14	0.27	3.78
251			70.84

SEGMENT L/TOTAL FLOOR AREA 2266 0.282231076 639.5356175



No. Date Revision

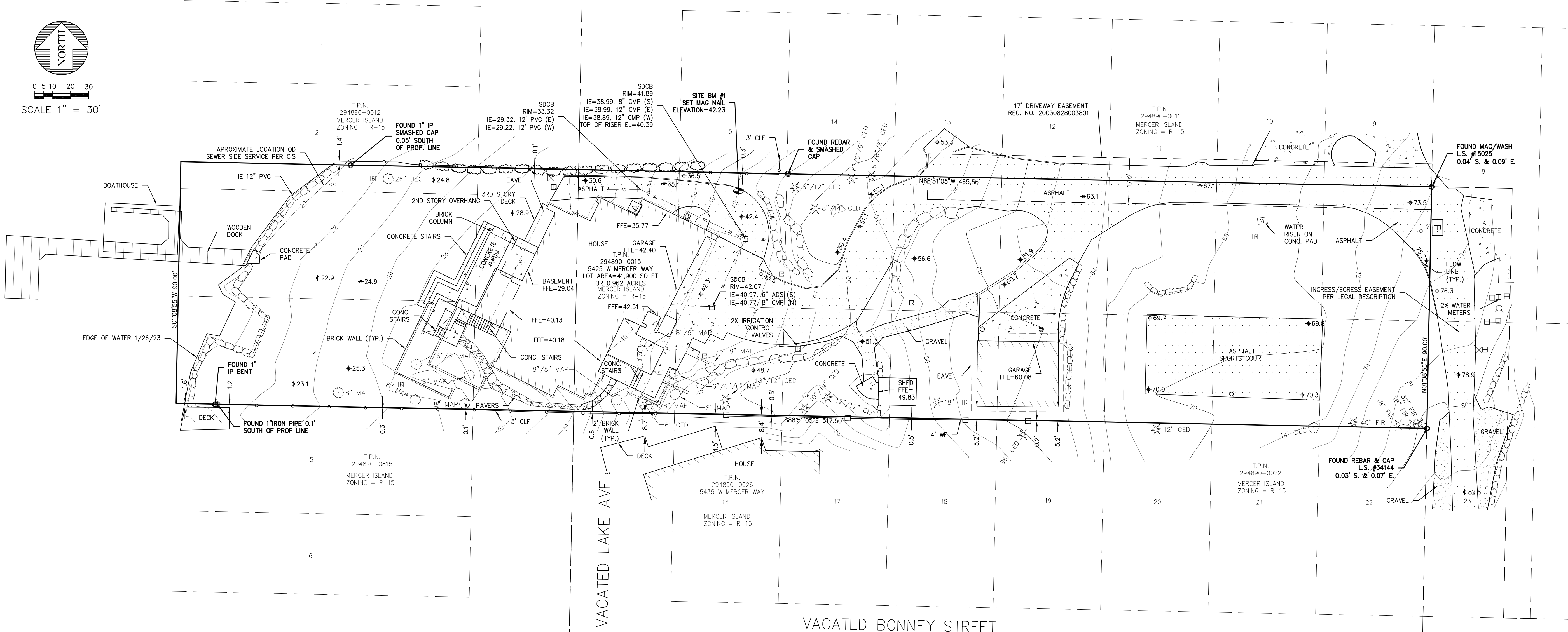
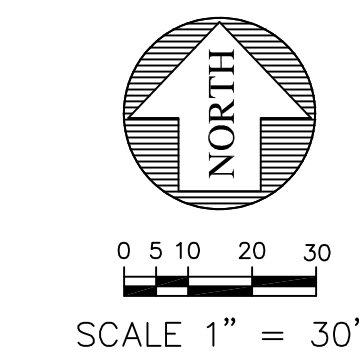
STEVE KAO & HUI HONG TOPOGRAPHIC SURVEY

A PORTION OF THE SE 1/4 OF THE NE 1/4 OF SEC. 24, TWP 24 N., RGE 4 E., W.M.
KING COUNTY, STATE OF WASHINGTON

VACATED BORDER STREET

VACATED BONNEY STREET

VACATED LAKE AVE



SURVEY NOTES:

- HORIZONTAL DATUM: NAD83-2011 EPOCH 2010.00 ESTABLISHED BY OBSERVATIONS TO THE WASHINGTON STATE REFERENCE NETWORK.
- BASIS OF POSITION: HELD THE FOUND MONUMENTED INTERSECTION OF VACATED BONNEY STREET AND VACATED LAKE AVE. (SEE MAP FOR LOCATION AND DESCRIPTION).
- BASIS OF BEARING: HELD THE BEARING OF S 88°51'05" E, PER DIRECT INVERSE, BETWEEN THE ABOVE NOTED BASIS OF POSITION AND FOUND MONUMENTED INTERSECTION OF VACATED BONNEY STREET AND WEST MERCER WAY (SEE MAP FOR LOCATION AND DESCRIPTION).
- THE FOLLOWING INFORMATION WAS REFERENCED IN PREPARING THE BOUNDARY SHOWN HERE ON:
 - GROVELAND PARK, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 8 OF PLATS, PAGE 36, RECORDS OF KING COUNTY, WA.
 - RECORD OF SURVEY AS RECORDED IN VOLUME 23 OF SURVEYS, PAGE 100, RECORDS OF KING COUNTY, WA.
 - RECORD OF SURVEY AS RECORDED IN VOLUME 440 OF SURVEYS, PAGE 145, RECORDS OF KING COUNTY, WA.
 - KING COUNTY ASSESSOR'S MAP FOR THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 24N, RANGE 04E, W.M.
- VERTICAL DATUM: NAVD88 (ESTABLISHED PER WSRN NETWORK OBSERVATION ON SITE BM#1)

SITE BM #1: SET MAG NAIL 0.8 FEET SOUTH OF THE NORTH EDGE OF DRIVE, 3.8 FEET EAST OF THE END OF CURB. ELEVATION=42.23 FEET. (SEE MAP FOR LOCATION)
- TRaversing AND DATA COLLECTION WERE PERFORMED USING A SPECTRA AND/OR TRIMBLE 5 SECOND TOTAL STATION. ALL FIELD WORK WAS PERFORMED, AND EQUIPMENT MAINTAINED, IN COMPLIANCE WITH WAC 332-130.
- ADDITIONAL FIELD WORK WAS PERFORMED USING SPECTRA SP-80 GNSS POSITIONING SYSTEMS, THE WASHINGTON STATE REFERENCE NETWORK, AND/OR THE NATIONAL GEODETIC SURVEY'S ONLINE POSITIONING USER SERVICE (OPUS).
- MONUMENTS SHOWN AS FOUND AND PLANIMETRIC INFORMATION SHOWN HEREON ARE THE RESULT OF A SURVEY BY ENCOMPASS, COMPLETED IN JANUARY 2023.
- UNDERGROUND UTILITIES SHOWN HEREON ARE PER A COMBINATION OF FIELD LOCATED SURFACE OBSERVABLE FEATURES AND RECORDS OF THE APPLICABLE UTILITIES AND SHOULD BE FIELD VERIFIED PRIOR TO ANY CONSTRUCTION.
- THE PURPOSE OF THIS EXHIBIT IS TO SHOW THE BOUNDARY AND EXISTING CONDITIONS ON THE SUBJECT PROPERTY.

LEGAL DESCRIPTION

THAT PORTION OF VACATED BLOCKS 2 AND 22 OF GROVELAND PARK, AS PER PLAT RECORDED IN VOLUME 8 OF PLATS, PAGE 36, RECORDS OF KING COUNTY AUDITOR, AND OF VACATED STREETS ADJOINING, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE CENTER LINES OF VACATED LAKE AVENUE AND VACATED BONNEY STREET AS SHOWN ON SAID PLAT, SAID POINT BEING MARKED BY A CONCRETE POST;

THENCE NORTH ALONG THE CENTER LINE OF SAID VACATED LAKE AVENUE 100 FEET TO THE TRUE POINT OF BEGINNING;

THENCE EAST PARALLEL WITH THE CENTER LINE OF VACATED BONNEY STREET TO THE EAST LINE OF LOT 22 OF SAID BLOCK 2;

THENCE NORTH ALONG SAID EAST LINE AND THE EAST LINE OF LOT 9 OF SAID 2, A DISTANCE OF 90 FEET;

THENCE WEST PARALLEL WITH THE CENTER LINE OF SAID VACATED BONNEY STREET TO THE SHORELINE OF LAKE WASHINGTON;

THENCE SOUTHERLY ALONG SAID SHORELINE 90 FEET, MORE OR LESS, TO AN INTERSECTION WITH THE WESTERLY PRODUCTION OF THE SOUTH LINE OF LOT 4 IN BLOCK 22 OF SAID PLAT;

THENCE EAST ALONG SAID SOUTH LINE AND ITS EASTERLY PRODUCTION THEREOF TO THE TRUE POINT OF BEGINNING;

TOGETHER WITH SECOND CLASS SHORE LANDS, AS CONVEYED BY THE STATE OF WASHINGTON, SITUATE IN FRONT OF, ADJACENT TO OR ABUTTING THEREON;

TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS DESCRIBED AS FOLLOWS:

THE WEST 30 FEET OF LOTS 8 AND 23 OF SAID BLOCK 2 AND THE NORTH 30 FEET OF THAT PORTION OF VACATED BONNEY STREET LYING BETWEEN THE WEST LINE OF SAID LOT 23, BLOCK 2, PRODUCED SOUTH AND THE WESTERLY LINE OF W. MERCER WAY;

AND THAT PORTION OF VACATED ANDERSON AVE. AND SAID BLOCK 2, WITHIN THE FOLLOWING DESCRIBED TRACT:

BEGINNING AT A POINT ON THE SOUTHERLY MARGIN OF THE NORTH 30 FEET OF VACATED BONNEY STREET 70 FEET WEST OF THE WESTERLY MARGIN OF WEST MERCER WAY;

THENCE EAST ALONG SAID SOUTHERLY MARGIN TO THE WESTERLY MARGIN OF WEST MERCER WAY;

THENCE NORTHERLY ALONG THE WEST MARGIN OF WEST MERCER WAY, A DISTANCE OF 110 FEET;

THENCE IN A STRAIGHT LINE TO THE POINT OF BEGINNING;

EXCEPT THAT PORTION OF SAID EASEMENT LYING NORTH OF THE EASTERLY PRODUCTION OF THE NORTH LINE OF THE ABOVE DESCRIBED MAIN TRACT.

SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

LEGAL DESCRIPTION AND EASEMENTS SHOWN ARE PER CW TITLE COMMITMENT FOR TITLE INSURANCE NO 50025013-101, DATED 10/07/2022

SPECIAL EXCEPTIONS

- EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

GRANTEE: MERCER ISLAND SEWER DISTRICT

PURPOSE: SEWER PIPELINE(S)

AREA AFFECTED: A PORTION OF SAID PREMISES

RECORDED ON AUGUST 5, 1964 AS INSTRUMENT #5770410 IN THE OFFICIAL RECORDS (NOT PLOTTABLE)

(SPECIAL EXCEPTIONS CONTINUED)

- EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

GRANTEE: WASHINGTON NATURAL GAS COMPANY

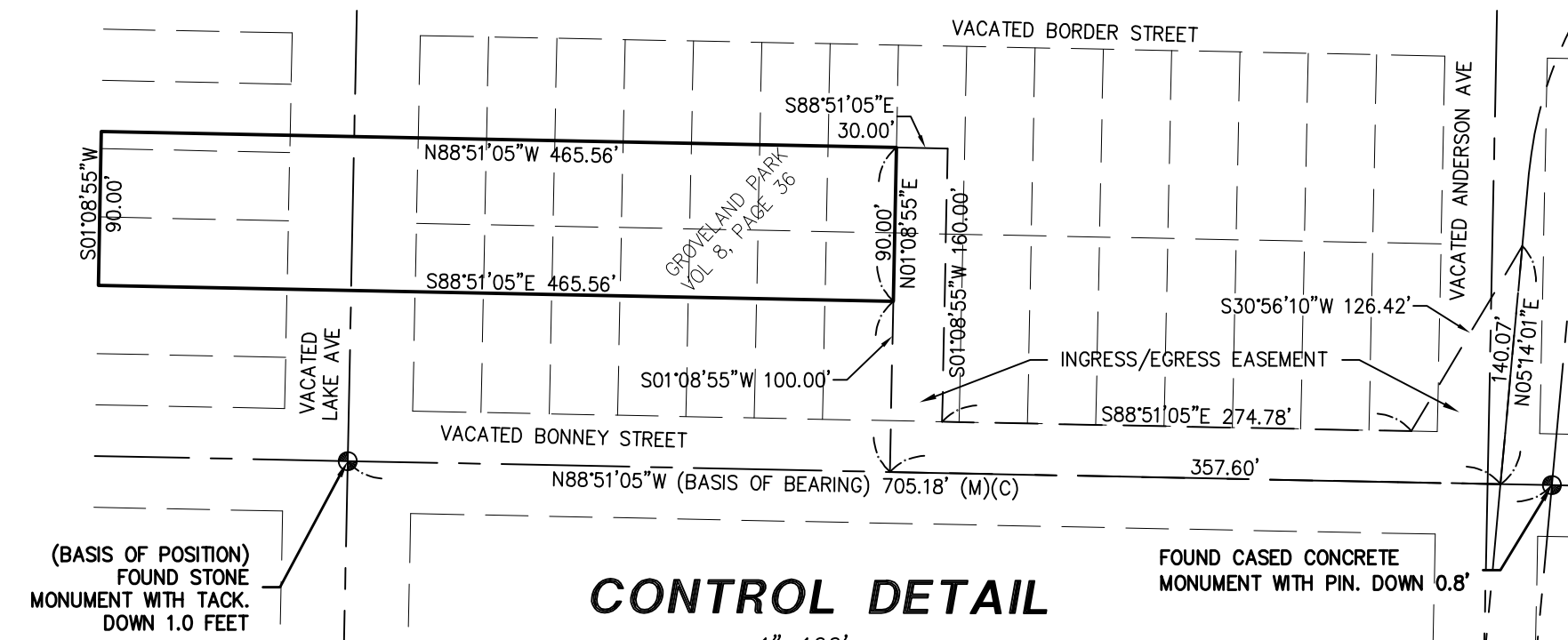
PURPOSE: GAS PIPELINE(S)

AREA AFFECTED: A PORTION OF SAID PREMISES

RECORDED ON JUNE 8, 1987 AS INSTRUMENT #8706081010 IN THE OFFICIAL RECORDS (NOT PLOTTABLE)
- DRIVEWAY EASEMENT AGREEMENT AND THE TERMS AND CONDITIONS THEREOF:

RECORDED ON AUGUST 28, 2003 AS INSTRUMENT #20030828003801 IN THE OFFICIAL RECORDS

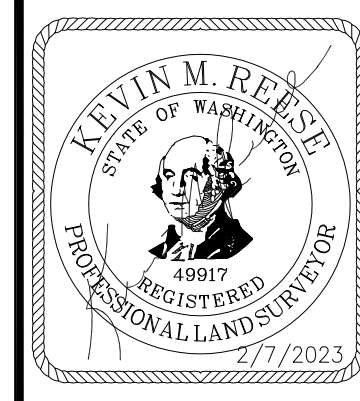
SAID EASEMENT CONTAINS A COVENANT TO BEAR EQUAL SHARE OF COST OF CONSTRUCTION, MAINTENANCE OR REPAIR OF SAME. (PLOTTED HEREON)



LEGEND

- | | | | |
|--|--------------------------|--|------------------------|
| | FOUND MONUMENT IN CASE | | LIGHT POST |
| | BENCHMARK | | CABLE TV RISER |
| | SECTION CORNER | | ROCKERY |
| | QUARTER CORNER | | GAS METER |
| | MEASURED | | STORM LINE |
| | CALCULATED | | WOOD FENCE (WF) |
| | WATER VALVE | | CHAIN LINK FENCE (CLF) |
| | FIRE HYDRANT | | HEDGE LINE |
| | WATER METER | | EVERGREEN TREE |
| | IRRIGATION CONTROL VALVE | | DECIDUOUS TREE |
| | WATER RISER | | CONCRETE |
| | CATCH BASIN | | ASPHALT |
| | AREA DRAIN | | GRAVEL |
| | POWER VAULT | | PAVERS |
| | GENERATOR | | |
| | JUNCTION BOX | | |

REVISIONS	DESCRIPTION	BY	DATE

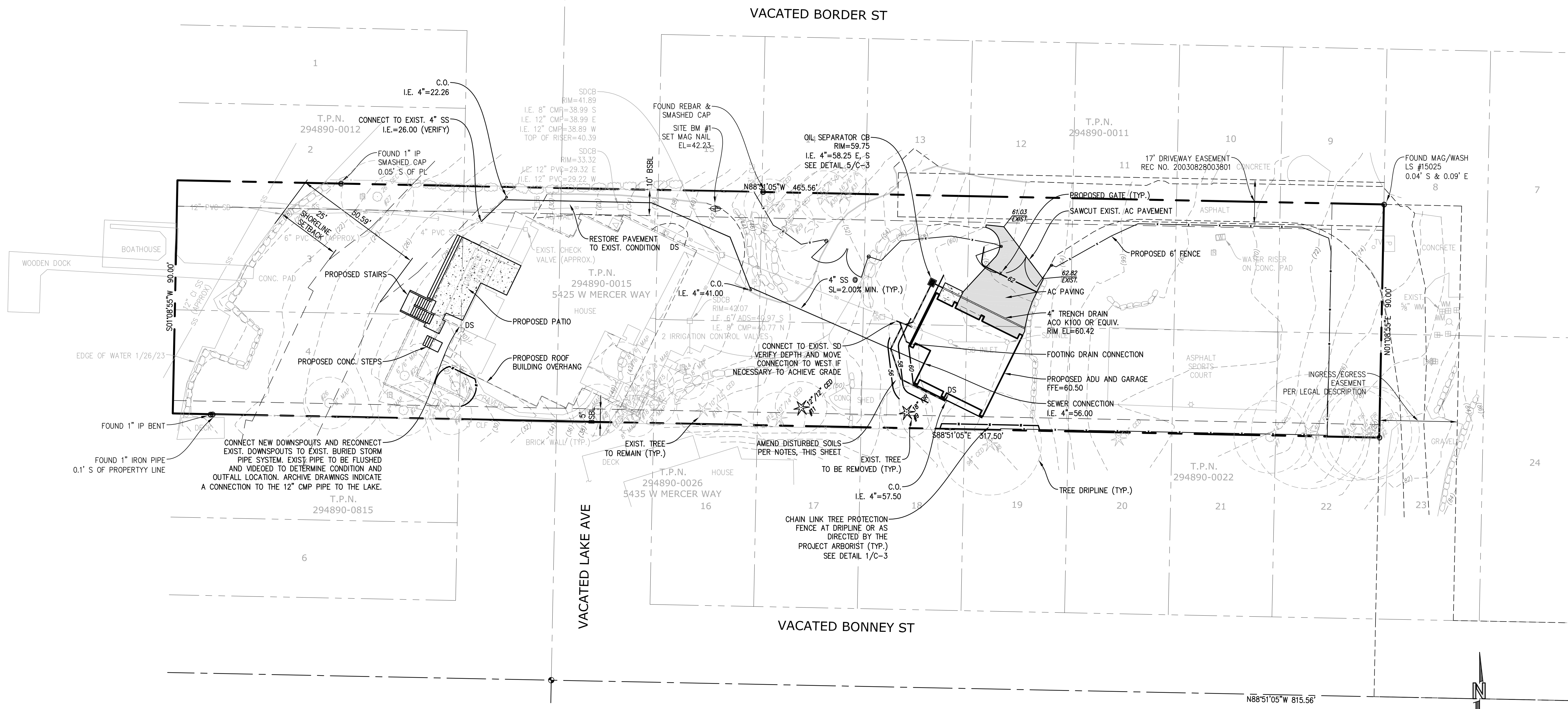


TOPOGRAPHIC SURVEY
FOR
STEVE KAO & HUI HONG



JOB NO.	22758
DATE	2/7/2023
SCALE	1"=20'
DESIGNED	N/A
DRAWN	LGK
CHECKED	N/A
APPROVED	KMR

A PORTION OF THE SE 1/4 OF THE NE 1/4 OF SEC. 24, TWP 24 N., RGE 4 E., W.M

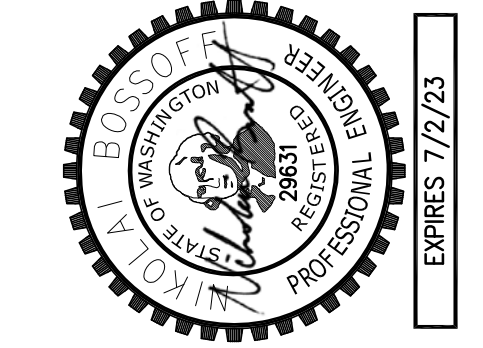
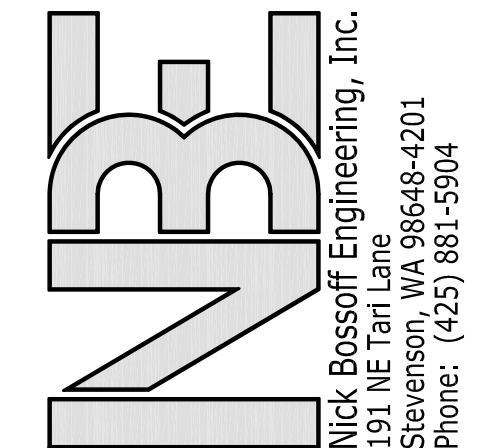


POST-CONSTRUCTION SOIL QUALITY AND DEPTH NOTES

- THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST-CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE WITH BMP 15.13. THE PROJECT GEOTECHNICAL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE APPROVED PLAN SET PRIOR TO FINAL INSPECTION OF THE PROJECT.
- SOIL RETENTION: RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.
 - SOIL QUALITY: ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:
 - A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
 - MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL
 - USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
 - THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE DEFINITION OF "COMPOSTED MATERIALS" IN WAC 173-350-220, WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
 - CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (A.) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220-B, TESTING PARAMETERS, IN WAC 173-350-220. THE RESULTING SOIL SHOULD BE CONDUCTIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.
 - IMPLEMENTATION OPTIONS: THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:
 - LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
 - AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE-APPROVED" RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT.
 - STOCKPILE EXISTING TOPSOIL DURING GRADING AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
 - IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS. MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.

ADDITIONAL NOTES:

- ALL CONSTRUCTION MATERIALS AND PRACTICE SHALL CONFORM TO THE CITY OF MERCER ISLAND STANDARDS AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARDS.
- EXISTING UTILITIES AS SHOWN ARE FROM CITY RECORDS AND ARE APPROXIMATE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO IDENTIFY, LOCATE AND PROTECT ABOVE AND BELOW GRADE UTILITIES. CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION IF A CONFLICT EXISTS BETWEEN EXISTING UTILITIES AND THE PROPOSED IMPROVEMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL AND SHALL MAINTAIN THE NECESSARY SAFEGUARDS AND MANAGE THE CONSTRUCTION SO AS TO PREVENT WATERBORNE SEDIMENTS FROM LEAVING THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR.
- ON-SITE PRIVATE STORM AND SEWER PIPE SHALL BE SOLVENT WELDED SCHEDULE 40 PVC OR PVC ASTM D3034 SDR35 UNLESS SHOWN OTHERWISE. PVC PIPE LAID AT A SLOPE IN EXCESS OF 20% SHALL BE SOLVENT WELDED SCHEDULE 40 PVC. STORM PIPE IN THE RIGHT-OF-WAY SHALL BE HIGH-DENSITY POLYETHYLENE DOUBLE-WALLED SMOOTH INTERIOR PIPE SUCH AS ADS N-12 OR EQUIVALENT.
- FOOTING DRAINS SHALL BE INSTALLED AROUND THE BASE OF ALL FOUNDATION FOOTINGS THAT ENCLOSE A CRAWL SPACE, CELLAR, BASEMENT, GARAGE OR OTHER BUILDING SPACE. FOOTING DRAINS SHALL BE PERFORATED 4-INCH DIAMETER PVC CONFORMING TO D2729, PERFORATIONS DOWN. GRANULAR BACKFILL SHALL BE PLACED AROUND AND ABOVE THE DRAIN TO A DEPTH OF 2/3 OF THE WALL HEIGHT. FILTER FABRIC (MIRAFI 140N OR EQUIVALENT) SHALL BE PLACED BETWEEN THE GRANULAR BACKFILL AND NATIVE SOILS. TIE THE FOOTING DRAIN INTO THE STORM LINE AT A LOCATION WHERE THE FOOTING DRAIN ELEVATION IS AT LEAST 12-INCHES ABOVE THE STORM LINE.
- EXISTING SIDE SEWER AND STORM DRAIN DEPTH AND LOCATION SHALL BE DETERMINED PRIOR TO ANY CONSTRUCTION, INCLUDING BUILDING CONSTRUCTION. REPORT CONFLICTS WITH PROPOSED CONSTRUCTION TO ENGINEER. NEW SIDE SEWER CONNECTION TO MAIN OR SEWER EJECTOR PUMP MAY BE NECESSARY FOR BASEMENT. PROPOSED METER LOCATION, IF SHOWN, IS APPROXIMATE. CONTRACTOR TO COORDINATE EXACT LOCATION OF NEW SERVICE/METER/ SUPPLY LINE WITH CITY WATER DEPARTMENT DURING CONSTRUCTION. SERVICE SIZE IS PRELIMINARY, VERIFY WITH PLUMBING AND SPRINKLER DESIGNER.
- EACH DOWNSPOUT SHALL CONNECT TO A RIGID NON-PERFORATED PIPE AT THE BUILDING PERIMETER. UNDER NO CIRCUMSTANCES SHALL DOWNSPOUTS CONNECT DIRECTLY TO THE PERFORATED FOOTING DRAIN.
- USE SAND COLLARS FOR PVC PIPE CONNECTIONS TO MANHOLES.
- VERTICAL BENDS ON THE STORM DRAINS MAY BE NECESSARY TO MAINTAIN MIN. 1.5' SOIL COVER OVER PIPE. MAX. PIPE BENDS TO BE 45°.
- DOWNSPOUT LOCATIONS SHOWN ARE PRELIMINARY. REFER TO ARCHITECTURAL PLANS FOR FINAL DOWNSPOUT LOCATIONS. EXISTING DOWNSPOUTS AND COLLECTOR PIPES SHALL BE PRESERVED AND NOT DISCONNECTED FROM THE SYSTEM. CONNECT EXISTING DOWNSPOUTS TO NEW STORM SYSTEM AS NECESSARY.
- AN UNDERSLAB DRAINAGE SYSTEM MAY BE NECESSARY DEPENDENT ON GEOTECHNICAL EVALUATION BY OTHERS.
- WINDOW WELLS SHALL BE DESIGNED FOR PROPER DRAINAGE BY CONNECTING TO THE BUILDING'S FOUNDATION DRAINAGE SYSTEM REQUIRED PER SECTION R310.2.3.2 OF THE INTERNATIONAL RESIDENTIAL CODE. A DRAINAGE SYSTEM FOR WINDOW WELLS IS NOT REQUIRED WHERE THE FOUNDATION IS ON WELL-DRAINED SOIL OR SAND-GRAVEL MIXTURE SOILS IN ACCORDANCE WITH THE UNITED SOIL CLASSIFICATION SYSTEM, GROUP 1 SOILS, AS DETAILED IN TABLE R405.1 OF THE IRC.

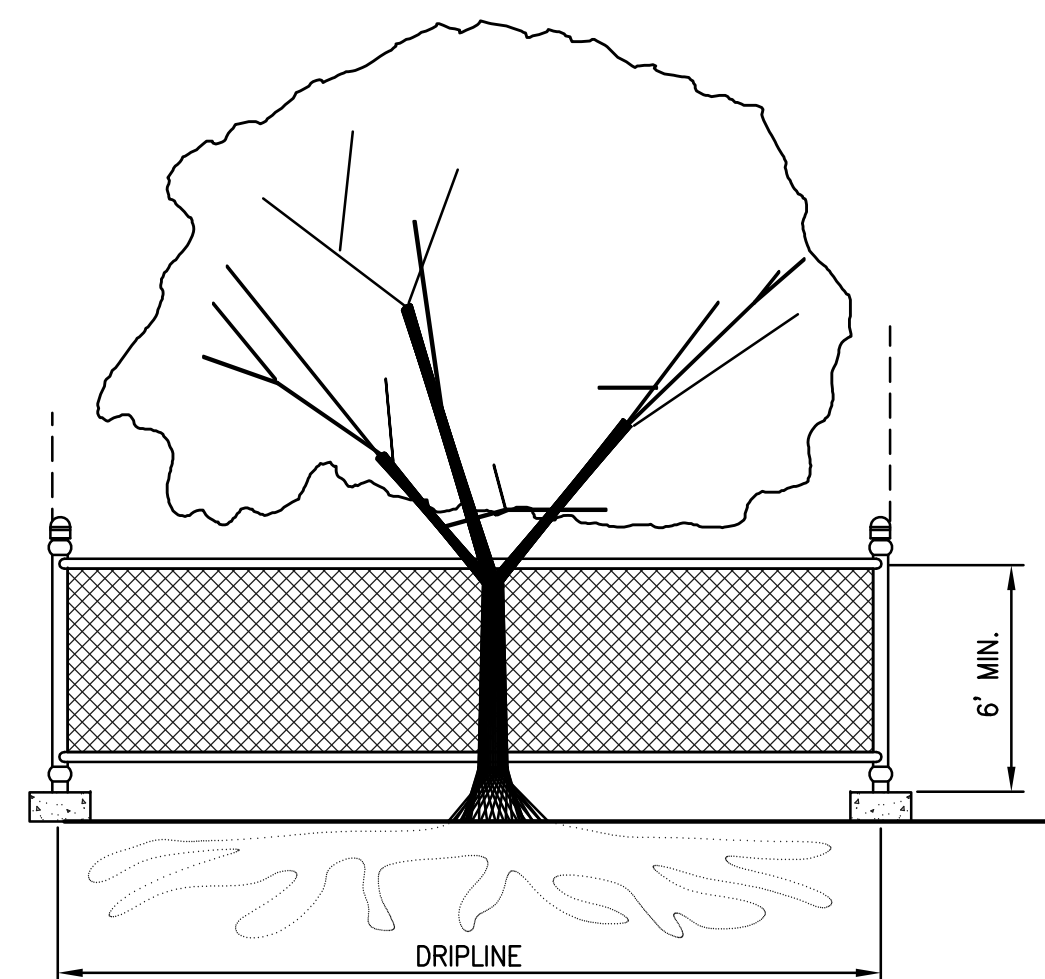


NO.	DATE	REVISION
1	05/07/23	PERMIT SUBMITTAL
N. BOSSOFF, P.E. PROJECT MANAGER: NB DESIGNED: TKB DRAWN: CBAP-2301 JOB NUMBER: CBAP-2301.pln.dwg FILE NAME:		

HONG AND KAO RESIDENCE
5425 W MERCER WAY
 WASHINGTON
 MERCER ISLAND

TITLE:
DRAINAGE PLAN
 SHEET:
C-2

A PORTION OF THE SE 1/4 OF THE NE 1/4 OF SEC. 24, TWP 24 N., RGE 4 E., W.M



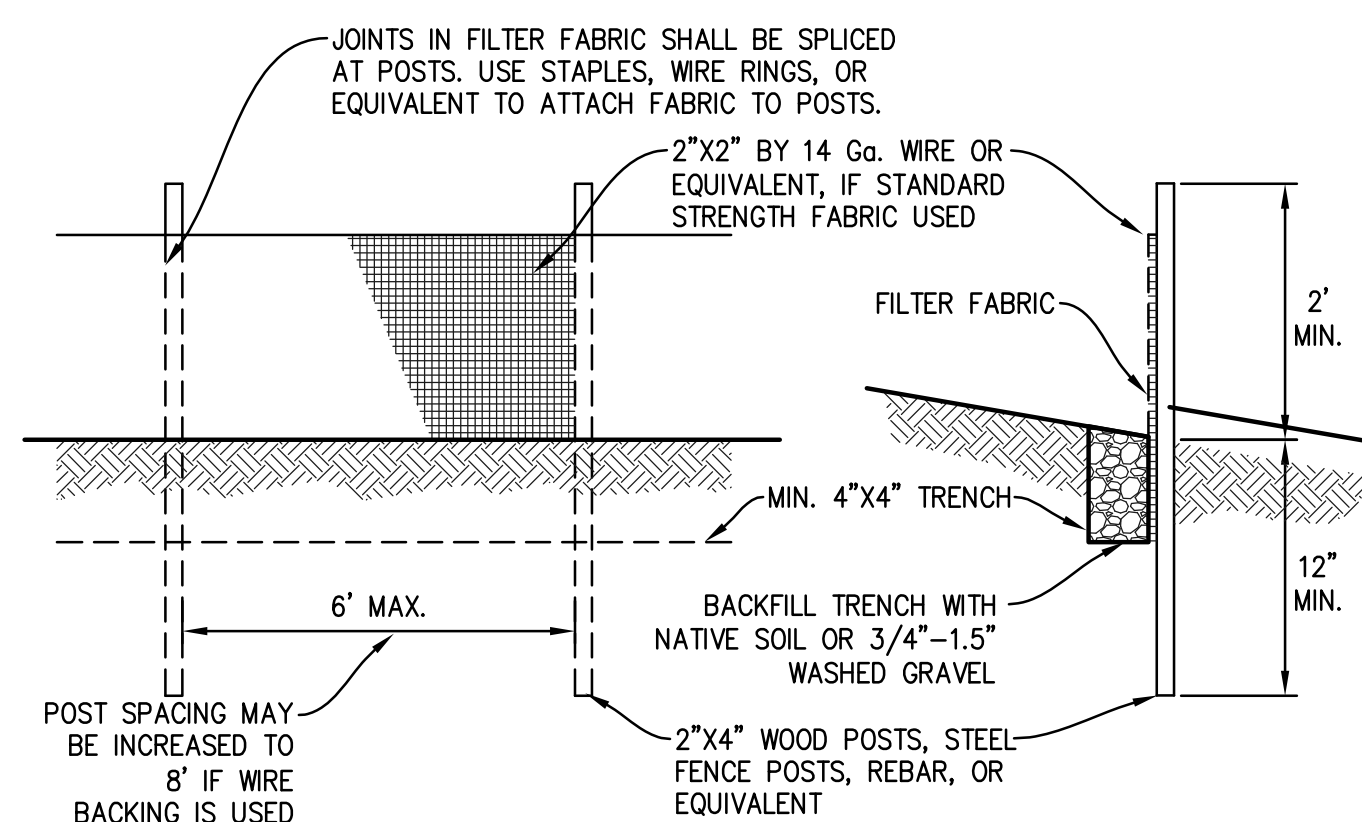
TREE PROTECTION DURING CONSTRUCTION

- 6-FT. HIGH TEMPORARY CHAIN LINK FENCE SHALL BE PLACED AT THE DRIPLINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE THE TREE(S). INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
- FOR ROOTS OVER 1-IN DIA. THAT ARE DAMAGED DURING CONSTRUCTION, MAKE A CLEAN, STRAIGHT CUT TO REMOVE THE DAMAGED PORTION. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND SHALL BE COVERED WITH SOIL AS SOON AS POSSIBLE.
- WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING.

TREE PROTECTION

SCALE: NTS

1



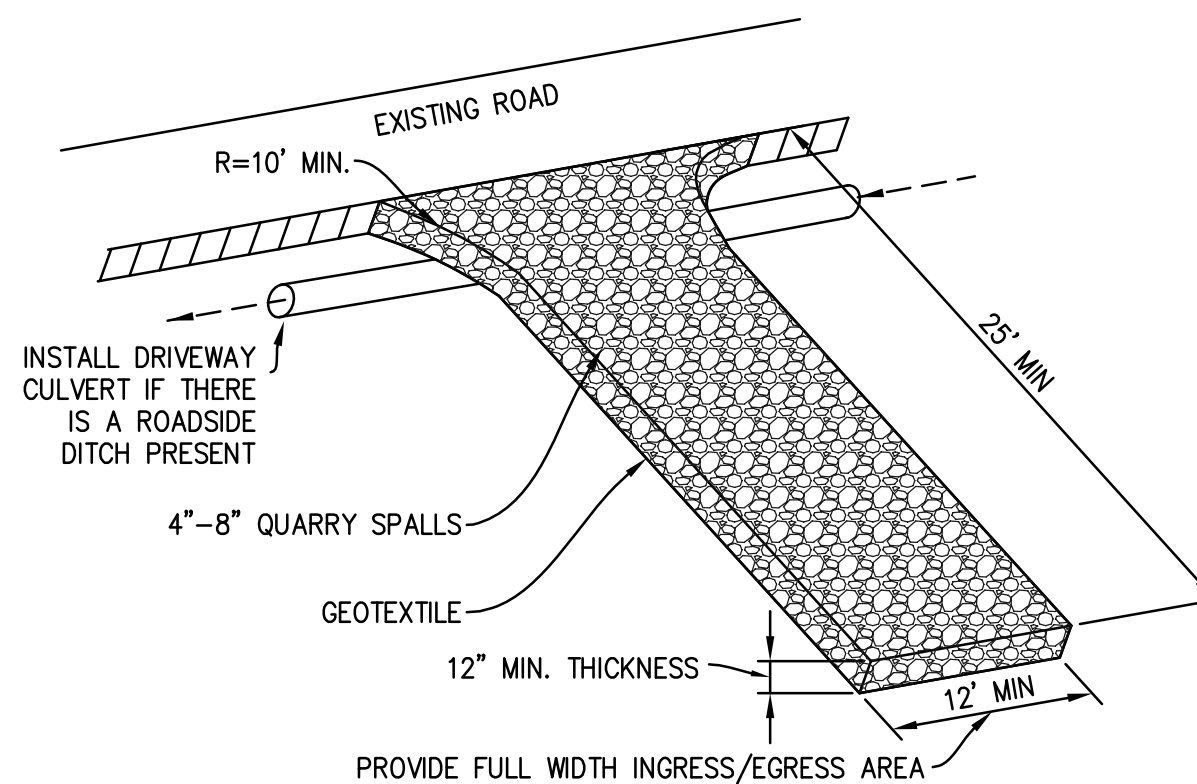
MAINTENANCE STANDARDS

- ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
- IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
- IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGN OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCUR, REPLACE THE FENCE AND/OR REMOVE THE TRAPPED SEDIMENT.
- SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6" HIGH.
- IF THE FILTER FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

SILT FENCE

SCALE: NTS

2



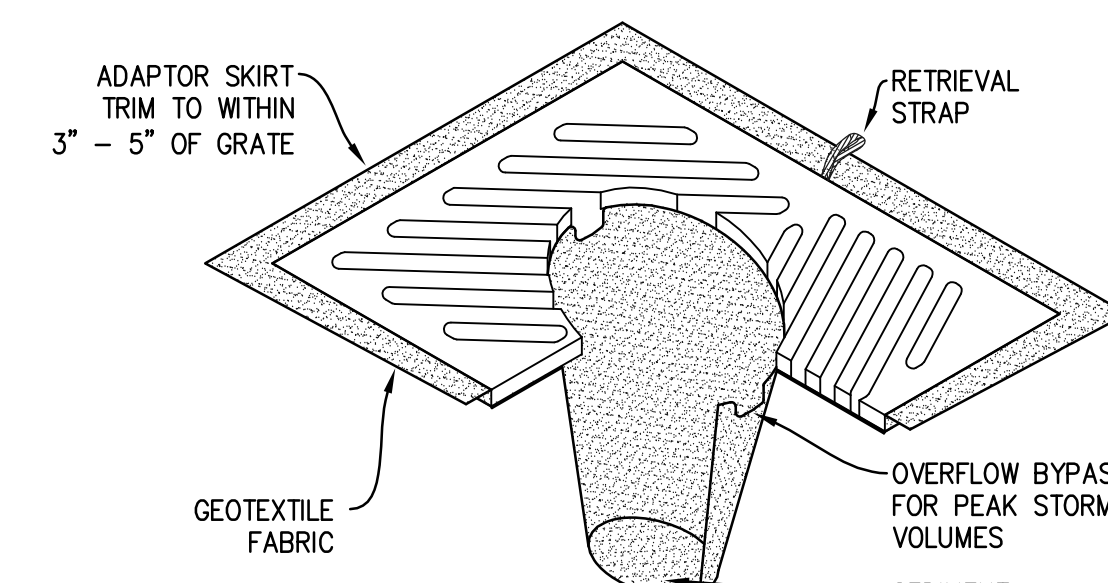
MAINTENANCE STANDARDS

- QUARRY SPALLS (OR HOG FUEL) SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
- IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
- ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON-SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREET, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.
- ANY ROCK SPALLS THAT ARE LOOSEENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
- IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCE(S), FENCING (SECTION 5.4.1) SHALL BE INSTALLED TO CONTROL TRAFFIC.

ROCK CONSTRUCTION ENTRANCE

SCALE: NTS

3



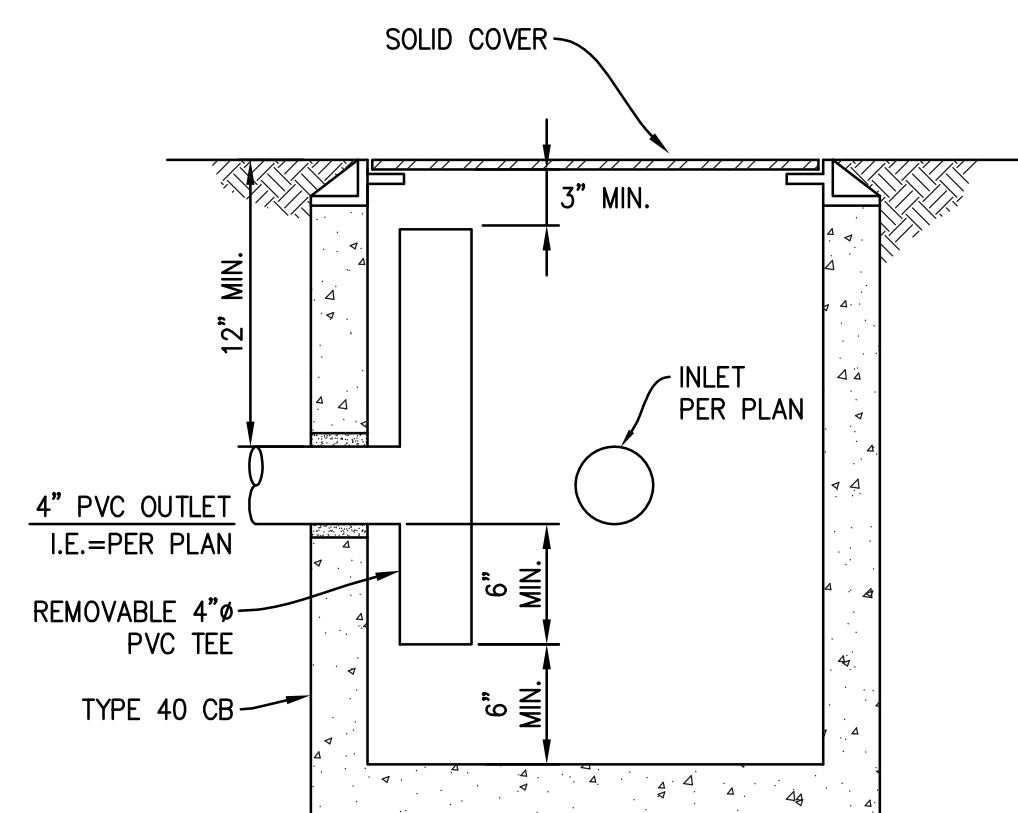
NOTES

- INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
- SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
- SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

CB INSERT

SCALE: NTS

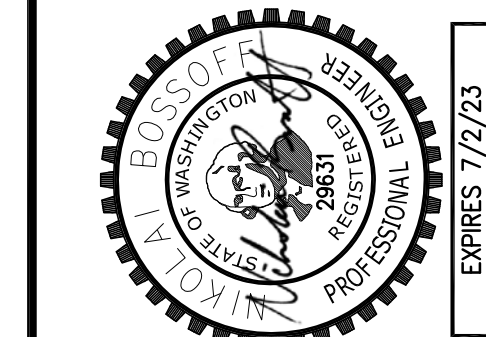
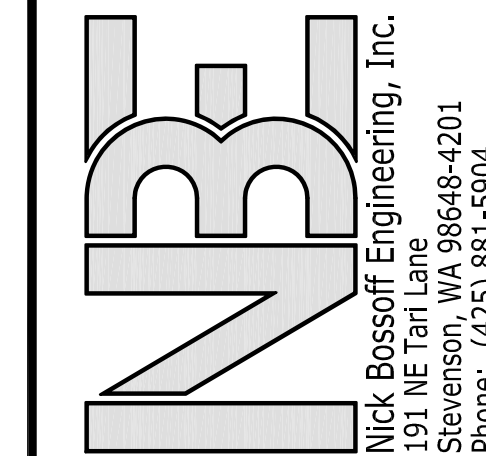
4



OIL SEPARATOR CB

SCALE: NTS

5



NO.	DATE	REVISION
1	06/07/23	PERMIT SUBMITAL

N. BOSSOFF, P.E.
PROJECT MANAGER:
DESIGNED: TKB
DRAWN: CBAP-2301
JOB NUMBER: CBAP-2301
FILE NAME: pln.dwg

HONG AND KAO RESIDENCE
5425 W MERCER WAY
MERCER ISLAND
WASHINGTON

TITLE: **DETAILS**
 SHEET: **C-3**

GLAZING
 TO BE IN COMPLIANCE WITH IRC SEC. R308, AND WASHINGTON STATE SAFETY GLASS LAW, EXCEPTIONS ARE AS OUTLINED IN IRC SEC R308.4.

GLAZING IN HAZARDOUS LOCATIONS SUBJECT TO HUMAN IMPACT SHALL BE SAFETY OR TEMPERED GLASS.
 HAZARDOUS LOCATIONS ARE:
 GLAZING IN SWINGING DOORS EXCEPT JALOUSIES

GLAZING IN FIXED AND SLIDING PANELS OF SLIDING DOOR ASSEMBLIES AND PANELS IN SWINGING DOORS OTHER THAN WARDROBE DOORS.
 GLAZING IN STORM DOORS
 GLAZING IN ALL UNFRAMED SWINGING DOORS

GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, AND SHOWERS. GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A STANDING SURFACE AND DRAIN INLET.

GLAZING IN FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24 INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.

GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL, OTHER THAN THOSE ABOVE, THAT MEETS ALL OF THE FOLLOWING CONDITIONS:

1. EXPOSED AREA ON AN INDIVIDUAL PANE GREATER THAN 9 SQUARE FEET
2. EXPOSED BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR
3. EXPOSED TOP EDGE GREATER THAN 36 INCHES ABOVE THE FLOOR
4. ONE OR MORE WALKING SURFACES WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING

GLAZING IN RAILINGS REGARDLESS OF HEIGHT.

GLAZING IN WARDROBE DOORS SHALL MEET THE IMPACT TEST REQUIREMENTS FOR SAFETY GLAZING AS SET FORTH IN UBC STANDARD NO. 24-2, PART II.

GLAZING IN WALLS AND FENCES USED AS THE BARRIER FOR INDOOR AND OUTDOOR SWIMMING POOLS AND SPAS WHEN ALL OF THE FOLLOWING CONDITIONS ARE PRESENT:

THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE
 THE GLAZING IS WITHIN 5 FEET OF A SWIMMING POOL OR SPA WATER'S EDGE

GLAZING ADJACENT TO STARWAYS, LANDINGS AND RAMP WITHIN 36" HORIZONTALLY OF A WALKING SURFACE WHEN THE EXPOSED SURFACE OF THE GLASS IS LESS THAN 60" ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE.

GLAZING ADJACENT TO STAIRWAYS, WITHIN 60" HORIZONTALLY OF THE BOTTOM TREAD OF A STAIRWAY IN ANY DIRECTION WHEN THE EXPOSED SURFACE OF THE GLASS IS LESS THAN 60" ABOVE THE NOSE OF THE TREAD.

EGRESS IN EVERY SLEEPING ROOM SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQ. FT. THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24" MINIMUM NET CLEAR OPENING WIDTH DIMENSION OF 20" AND A FINISHED SILL HEIGHT NOT MORE THAN 44" ABOVE THE FLOOR. IRC SEC. R310.1

ENERGY

ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE UNIFORM BUILDING CODE AND THE WASHINGTON STATE ENERGY CODE, LATEST EDITION. VERIFY ALL CONDITIONS BEFORE PROCEEDING WITH WORK.

APPLICATION AND INSTALLATIONS OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STATE OF WASHINGTON THERMAL INSULATION STANDARDS (H.B. 98).

WALLS: INSULATED WITH R-21 BATT

ROOF AND CEILING: INSULATED WITH R-49 BATT IN ATTICS. PROVIDE INSULATION IN CEILING WHERE POSSIBLE AND IN 2X12 RAFTERS R-38 IF VAULTED CEILING CONDITION EXISTS. MAINTAIN A MINIMUM OF 2" CLEAR BETWEEN TOP OF INSULATION AND BOTTOM OF SHEATHING FOR VENTING. VENTING MUST OCCUR IN EACH JOIST SPACE. WHERE CONTINUOUS VENTING WITHIN A JOIST SPACE IS INTERRUPTED BY A HEADER (I.E., SKYLIGHT OR AT HIP END), PROVIDE (2) 1 1/2" VENTING HOLES AT THE TOP OF THE RAFTER AT THE HEADER TO ALLOW FOR CONTINUAL THROUGH-VENTING INTO THE NEXT JOIST SPACE.

FLOORS: PROVIDE R-30 BATT INSULATION OVER UNHEATED SPACE (UNLESS NOTED OTHERWISE).

SLAB ON GRADE: PROVIDE EXTRUDED RIGID CLOSED CELL INSULATION R-10. INSULATION TO PROVIDE THERMAL BREAK BETWEEN SLAB AND FOOTING AND RUN FROM THE TOP OF THE SLAB TO THE BOTTOM OF THE FOOTING. INSULATION MAY BE INTERRUPTED FOR 6" EVERY 2'-0" TO ALLOW FOR DOWELING TO THE SLAB AND FOOTING TOGETHER.

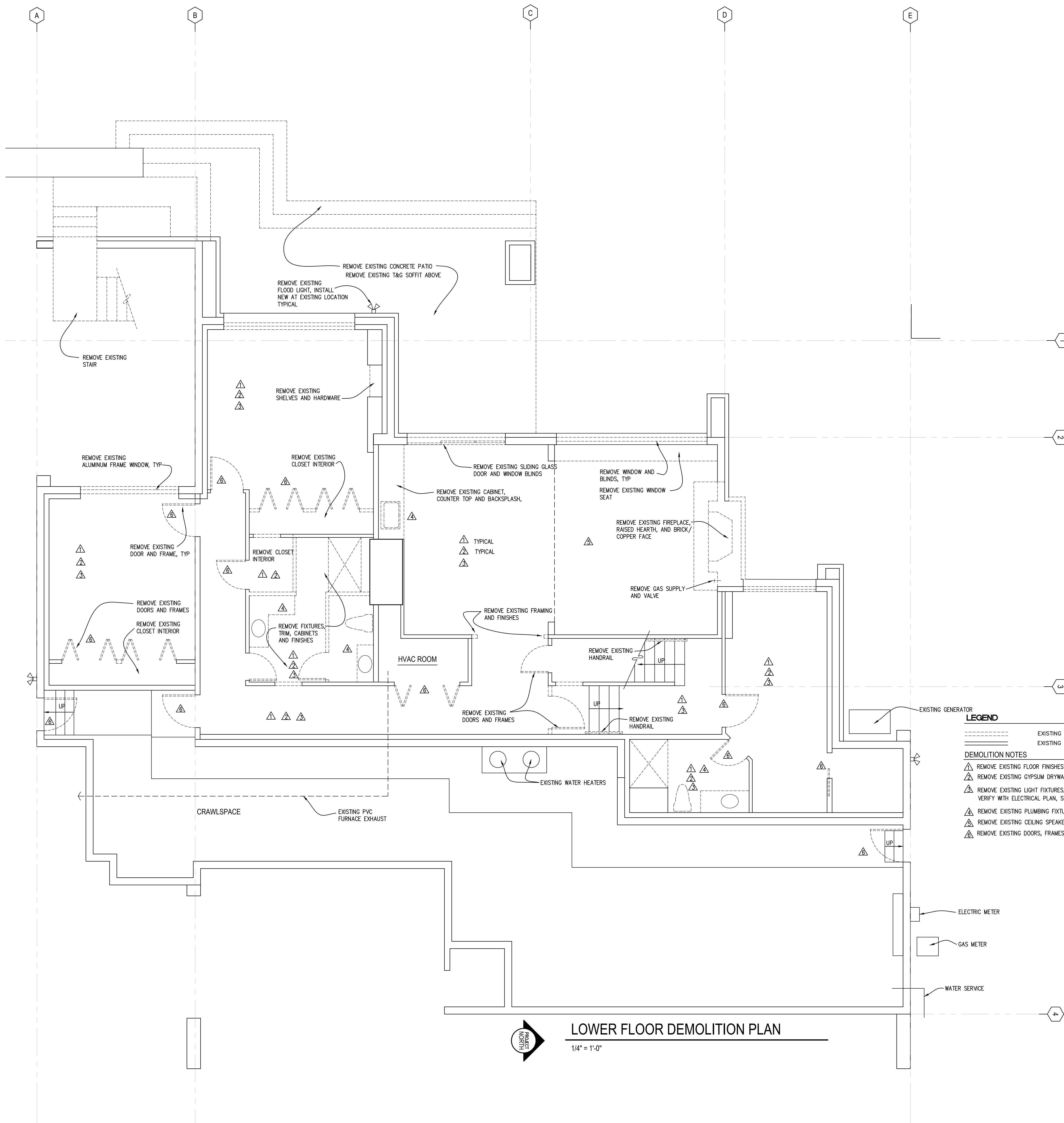
VAPOR BARRIERS: AN APPROVED VAPOR BARRIER SHALL BE INSTALLED AT EXTERIOR WALLS AND AT ALL ROOF DECKS, BELOW ENCLOSED JOIST SPACES WHERE CEILING FINISHES ARE DIRECTLY INSTALLED TO JOISTS, AND ANY OTHER WALL OR CEILING SURFACES WHICH RECEIVE INSULATION. THIS VAPOR BARRIER MAY BE A COMPONENT OF THE INSULATION MATERIAL. APPLICATION AND INSTALLATIONS OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STATE OF WASHINGTON THERMAL INSULATION STANDARDS (H.B. 96).

SECTION R406 ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS

R406.3 MEDIUM DWELLING UNIT	6.0 CREDITS REQUIRED
FUEL NORMALIZATION CREDITS	
SYSTEM TYPE 2 LISTED HEAT PUMP	1.0 CREDITS
2. AIR LEAKAGE CONTROL	
2.3 REDUCE AIR LEAKAGE TO 1.5 AIR CHANGES	1.5 CREDITS
3. HIGH EFFICIENCY HVAC EQUIPMENT	
3.5 AIR SOURCE DUCTED HEAT PUMP MIN. HSPF 11.0	1.5 CREDITS
5. EFFICIENT WATER HEATING	
5.3 ENERGY STAR UEF 0.91 WATER HEATER	1.0 CREDITS
6. RENEWABLE ELECTRIC ENERGY OPTION	
6.1 1200 kWh PHOTO VOLTAGE SYSTEM	1.0 CREDITS
TOTAL PROVIDED	6.0 CREDITS

WHOLE HOUSE VENTILATION

INTEGRATE WHOLE HOUSE VENTILATION WITH AIR HANDLER FANS THAT ARE VARIABLE SPEED WITH LOW SPEED OPERATION NOT GREATER THAN 25% OF RATED SUPPLY AIRFLOW. OUTDOOR AIR INTAKE OPENINGS MUST MEET THE PROVISIONS OF R303.5 AND R303.6 AND MUST INCLUDE MOTORIZED DAMPERS ACTIVATED BY THE WHOLE HOUSE VENTILATION CONTROLLER. TEST AND VERIFY THAT OUTDOOR AIR INTAKE AT MINIMUM VENTILATION FAN SPEED AND MAXIMUM HEATING OR COOLING FAN SPEED.

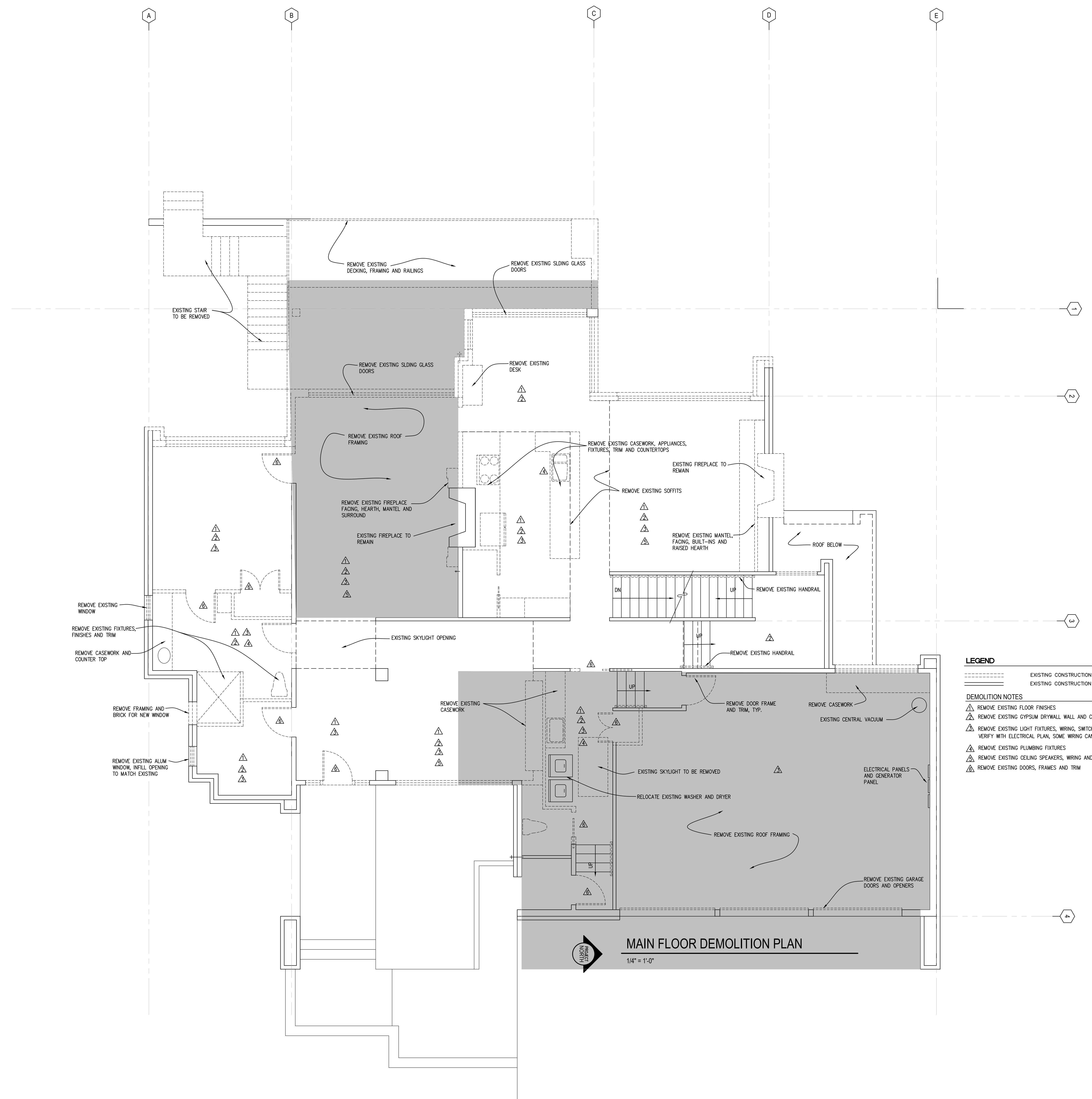


LOWER FLOOR DEMOLITION PLAN

1/4" = 1'-0"



No. Date Revision

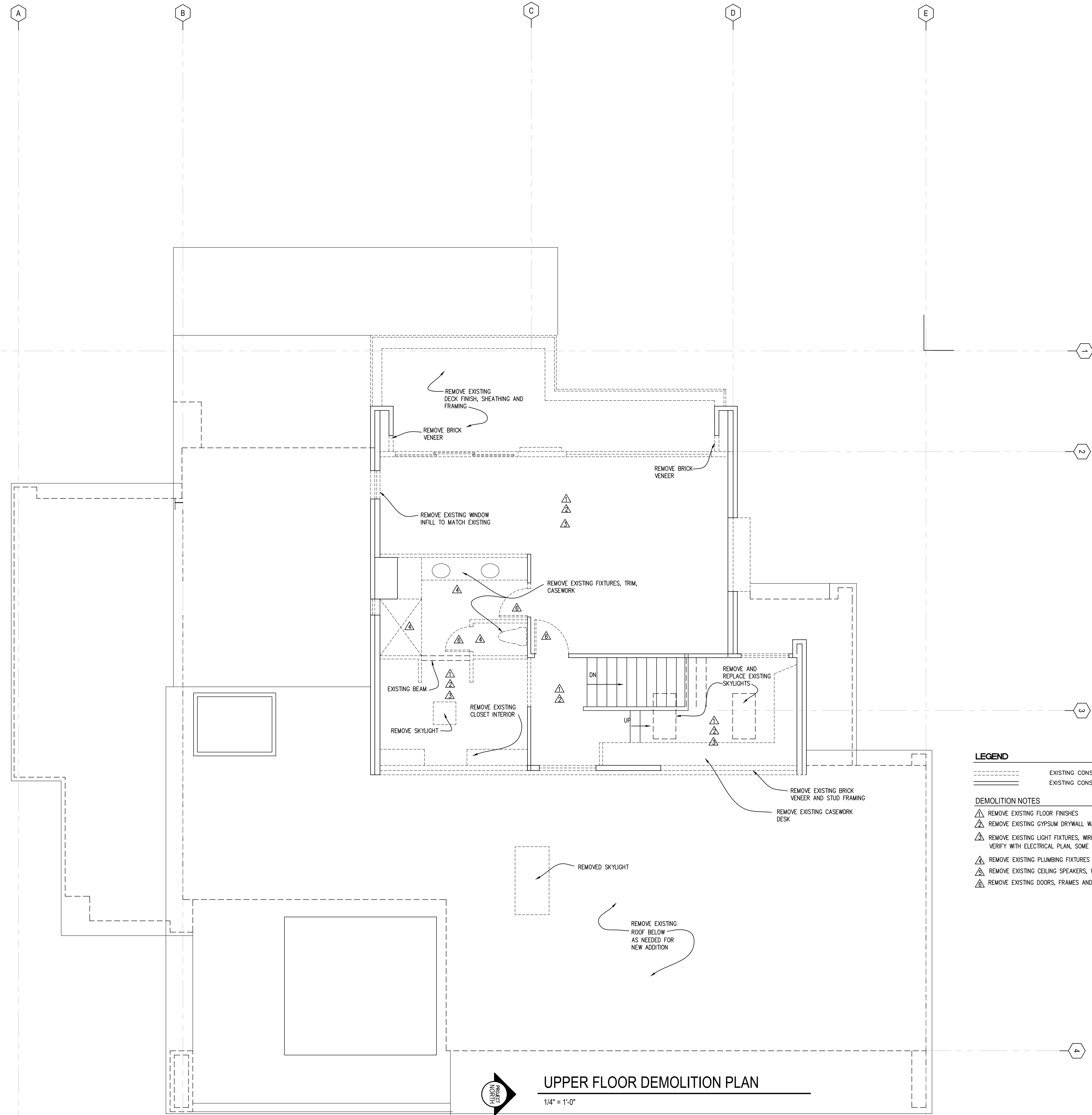


- LEGEND**
- EXISTING CONSTRUCTION TO 1
 - EXISTING CONSTRUCTION
- DEMOLITION NOTES**
- △ REMOVE EXISTING FLOOR FINISHES
 - △ REMOVE EXISTING GYPSUM DRYWALL WALL AND CEILING
 - △ REMOVE EXISTING LIGHT FIXTURES, WIRING, SWITCHES & VERIFY WITH ELECTRICAL PLAN, SOME WIRING CAN REM
 - △ REMOVE EXISTING PLUMBING FIXTURES
 - △ REMOVE EXISTING CEILING SPEAKERS, WIRING AND DEV
 - △ REMOVE EXISTING DOORS, FRAMES AND TRIM

MAIN FLOOR DEMOLITION PLAN
1/4" = 1'-0"



No.	Date	Revision



UPPER FLOOR DEMOLITION PLAN

1/4" = 1'-0"

LEGEND

--- EXISTING CONSTRUCTION TO BE REMOVED
 --- EXISTING CONSTRUCTION

DEMOLITION NOTES

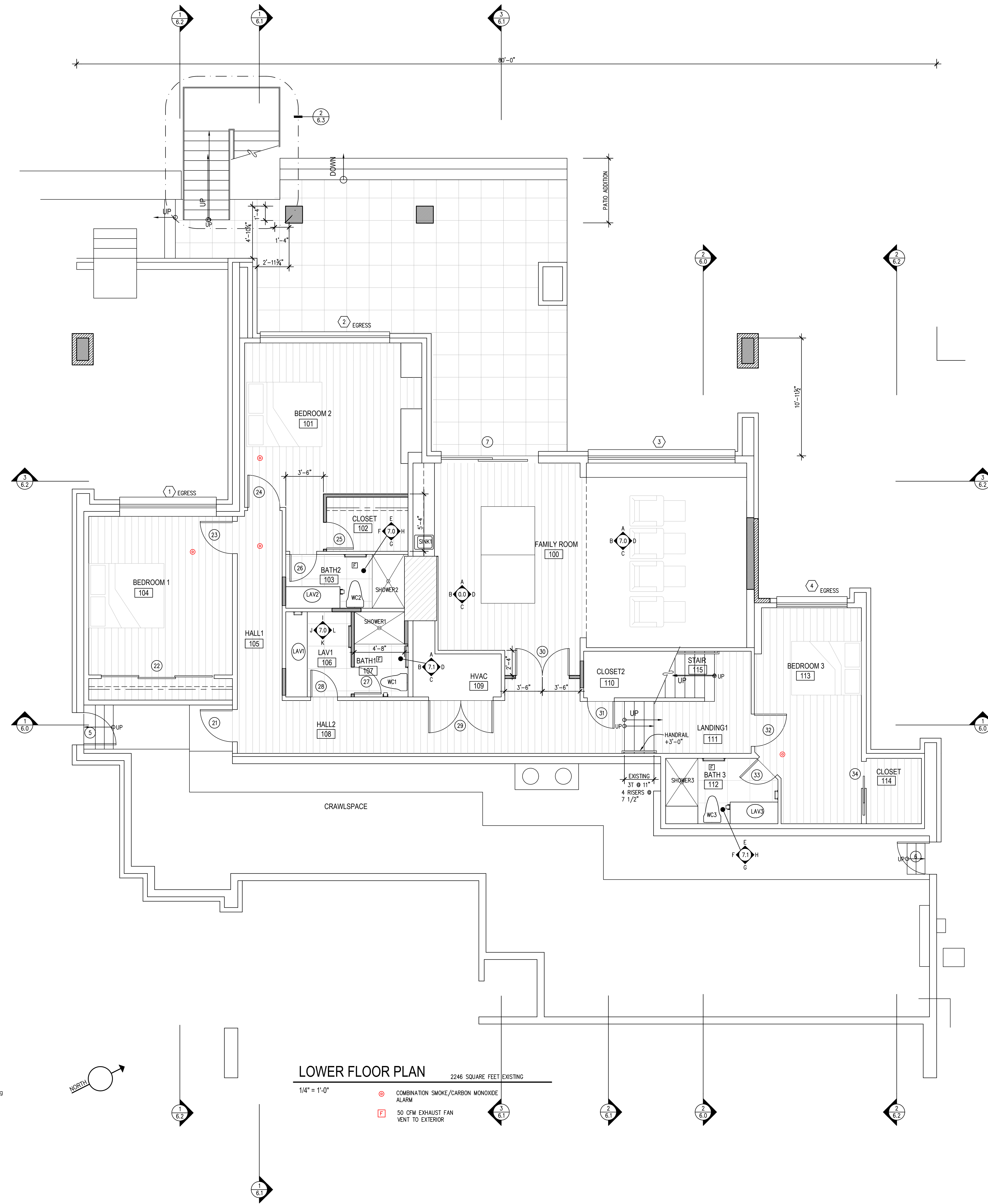
- ▲ REMOVE EXISTING FLOOR FINISHES
- ▲ REMOVE EXISTING GYPSUM DRYWALL WALL AND CEILING FINISHES
- ▲ REMOVE EXISTING LIGHT FIXTURES, WIRING, SWITCHES AND DEVICES. VERIFY WITH ELECTRICAL PLAN, SOME WIRING CAN REMAIN
- ▲ REMOVE EXISTING PLUMBING FIXTURES
- ▲ REMOVE EXISTING CEILING SPEAKERS, WIRING AND DEVICES
- ▲ REMOVE EXISTING DOORS, FRAMES AND TRIM



No.	Date	Revision

DEMOLITION PLAN

Sheet No.	2.2
Project No.	2222
Date:	6/7/23



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LOWER FLOOR PLAN

2246 SQUARE FEET EXISTING

1/4" = 1'-0"

- COMBINATION SMOKE/CARBON MONOXIDE ALARM
- 50 CFM EXHAUST FAN VENT TO EXTERIOR



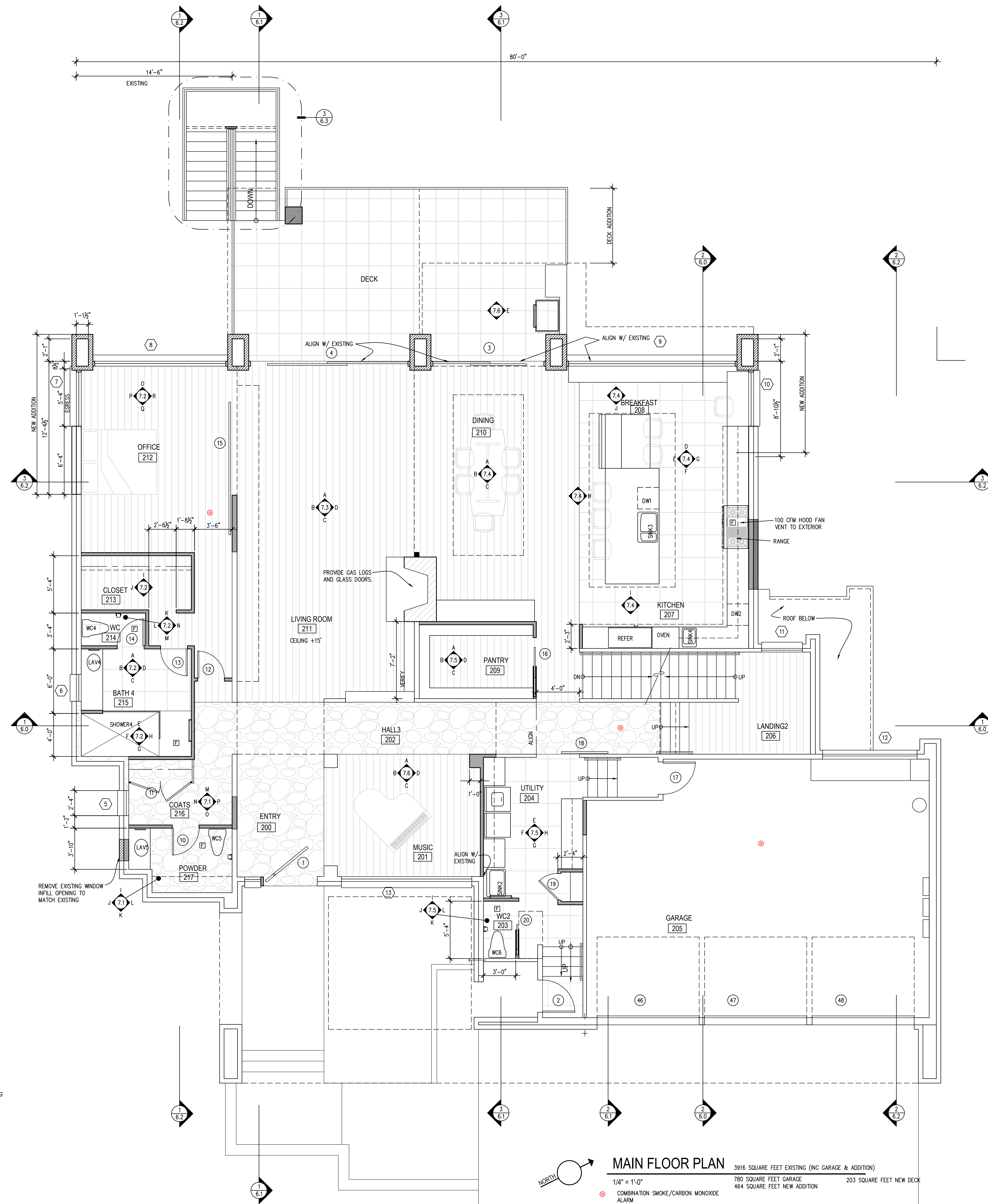
No. Date Revision

HONG AND KAO RESIDENCE

5425 W. MERCER WAY
 MERCER ISLAND, WA 98040

LOWER FLOOR

Sheet No. **3.0**
 Project No. 2222
 Date: 6/7/23



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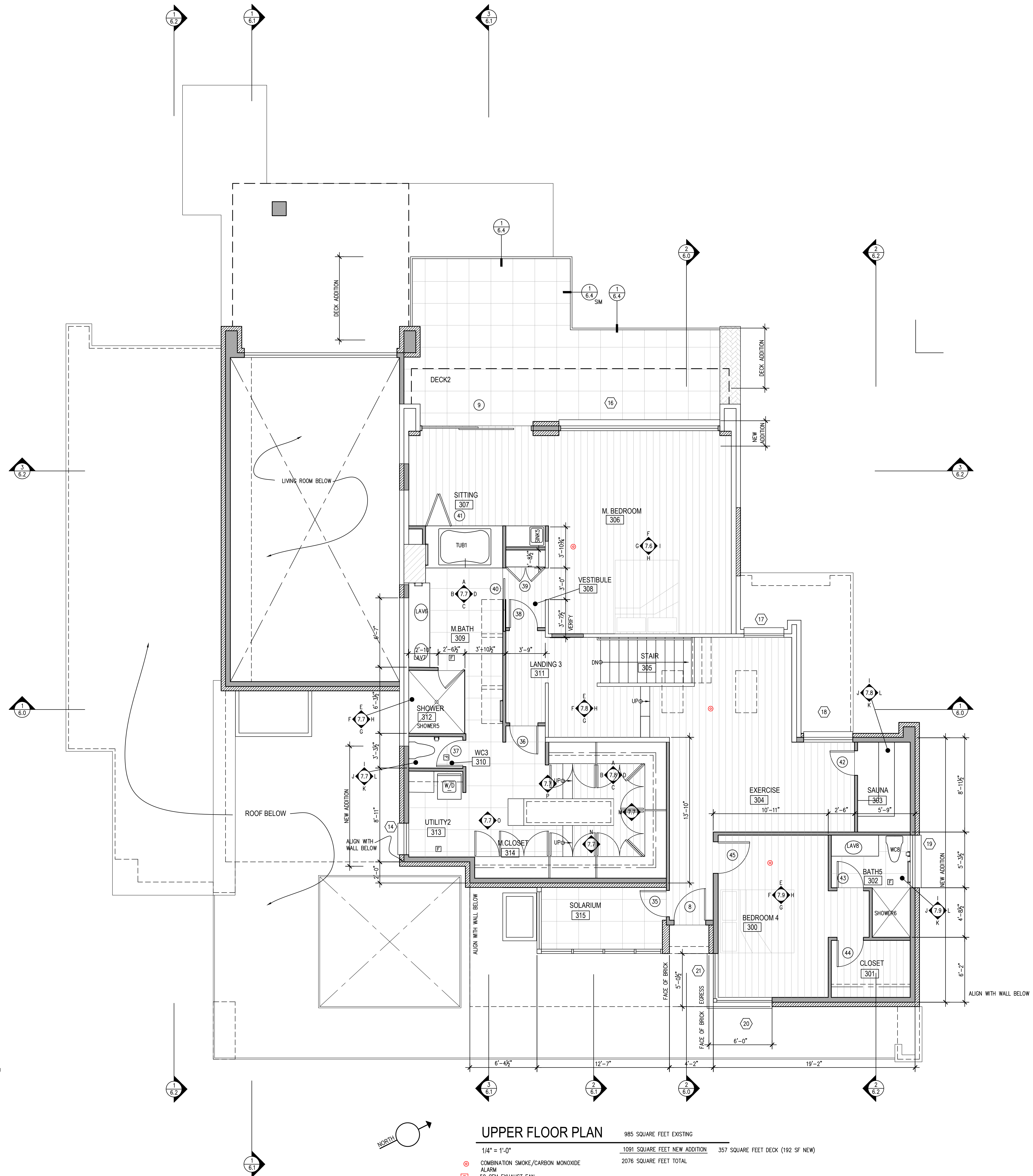
MAIN FLOOR PLAN 3916 SQUARE FEET EXISTING (INC GARAGE & ADDITION)
 1/4" = 1'-0" 780 SQUARE FEET GARAGE 203 SQUARE FEET NEW DECK
 464 SQUARE FEET NEW ADDITION
 COMBINATION SMOKE/CARBON MONOXIDE ALARM
 50 CFM EXHAUST FAN VENT TO EXTERIOR
 HEAT DETECTOR



27 100TH AVENUE NE, SUITE 100
 BELLEVUE, WA 98004
 FAX: 425-679-0804
 PHONE: 425-679-0907

No. Date Revision

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UPPER FLOOR PLAN

985 SQUARE FEET EXISTING
 1/4" = 1'-0"
 1091 SQUARE FEET NEW ADDITION 357 SQUARE FEET DECK (192 SF NEW)
 2076 SQUARE FEET TOTAL

- ⊙ COMBINATION SMOKE/CARBON MONOXIDE ALARM
- ⊞ 50 CFM EXHAUST FAN VENT TO EXTERIOR



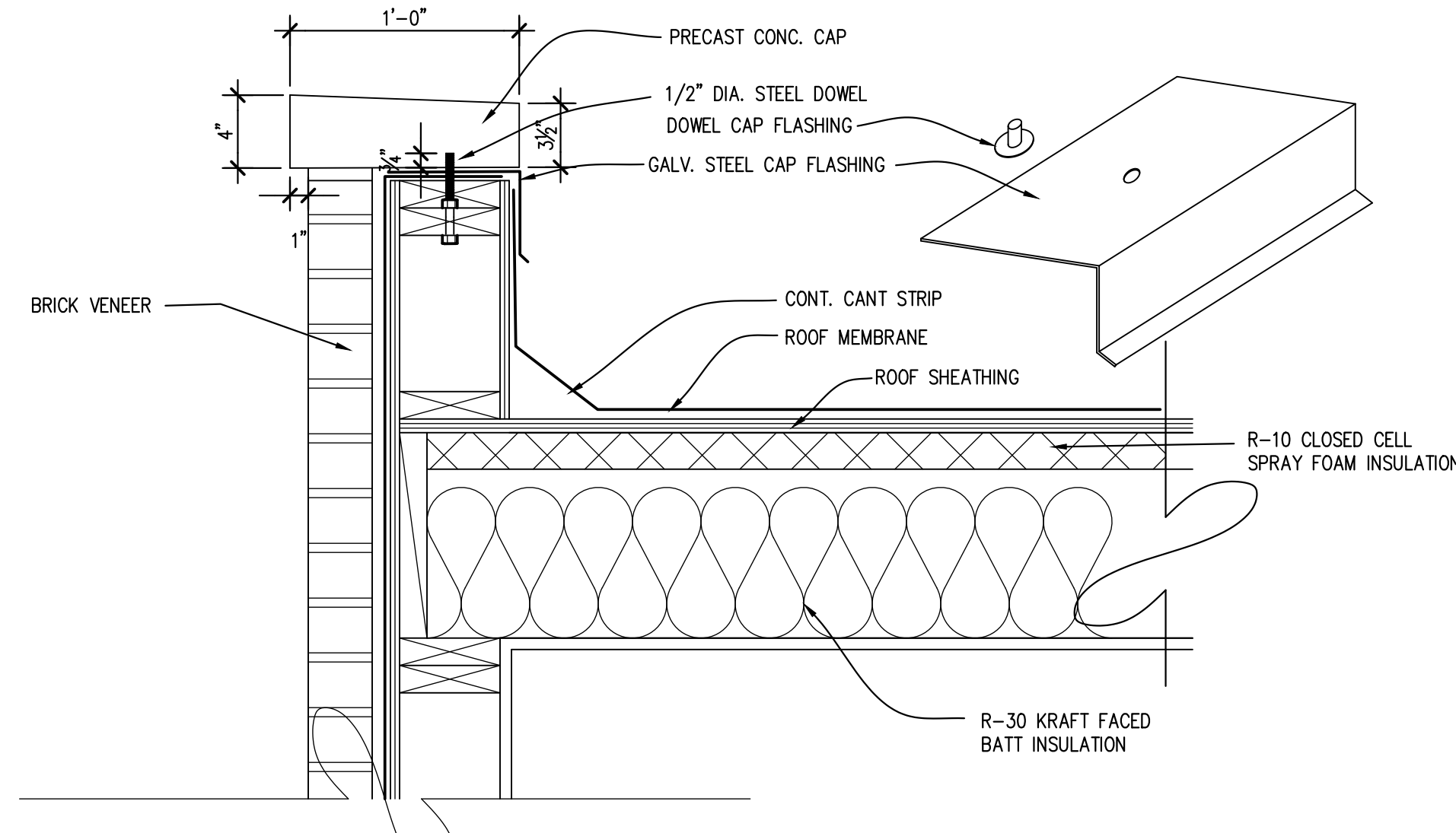
27 100TH AVENUE NE, SUITE 100
 BELLEVUE, WA 98004
 FAX: 425-679-0804
 PHONE: 425-679-0907

No. Date Revision

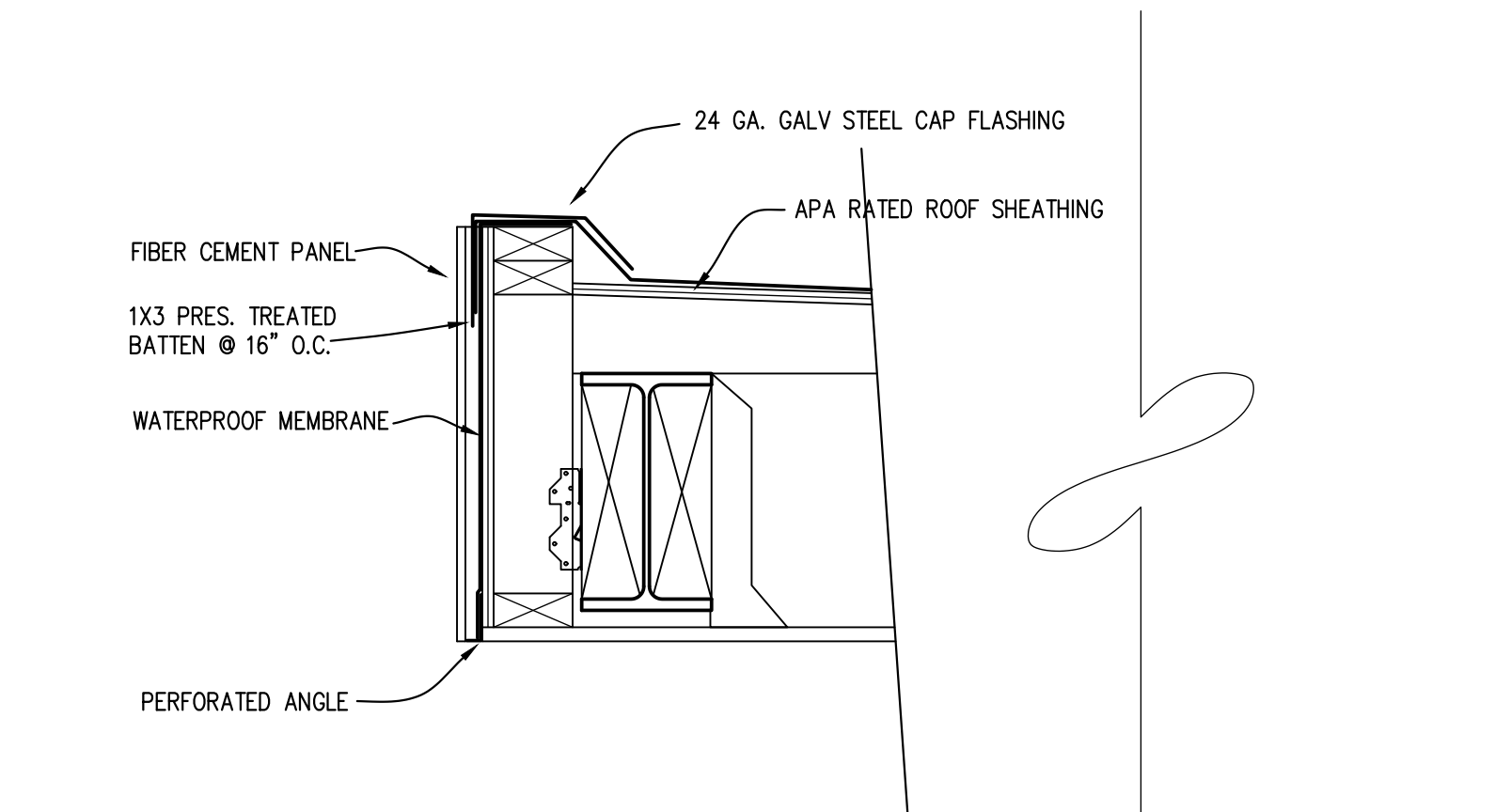
HONG AND KAO RESIDENCE
 5425 W. MERCER WAY
 MERCER ISLAND, WA 98040

UPPER FLOOR

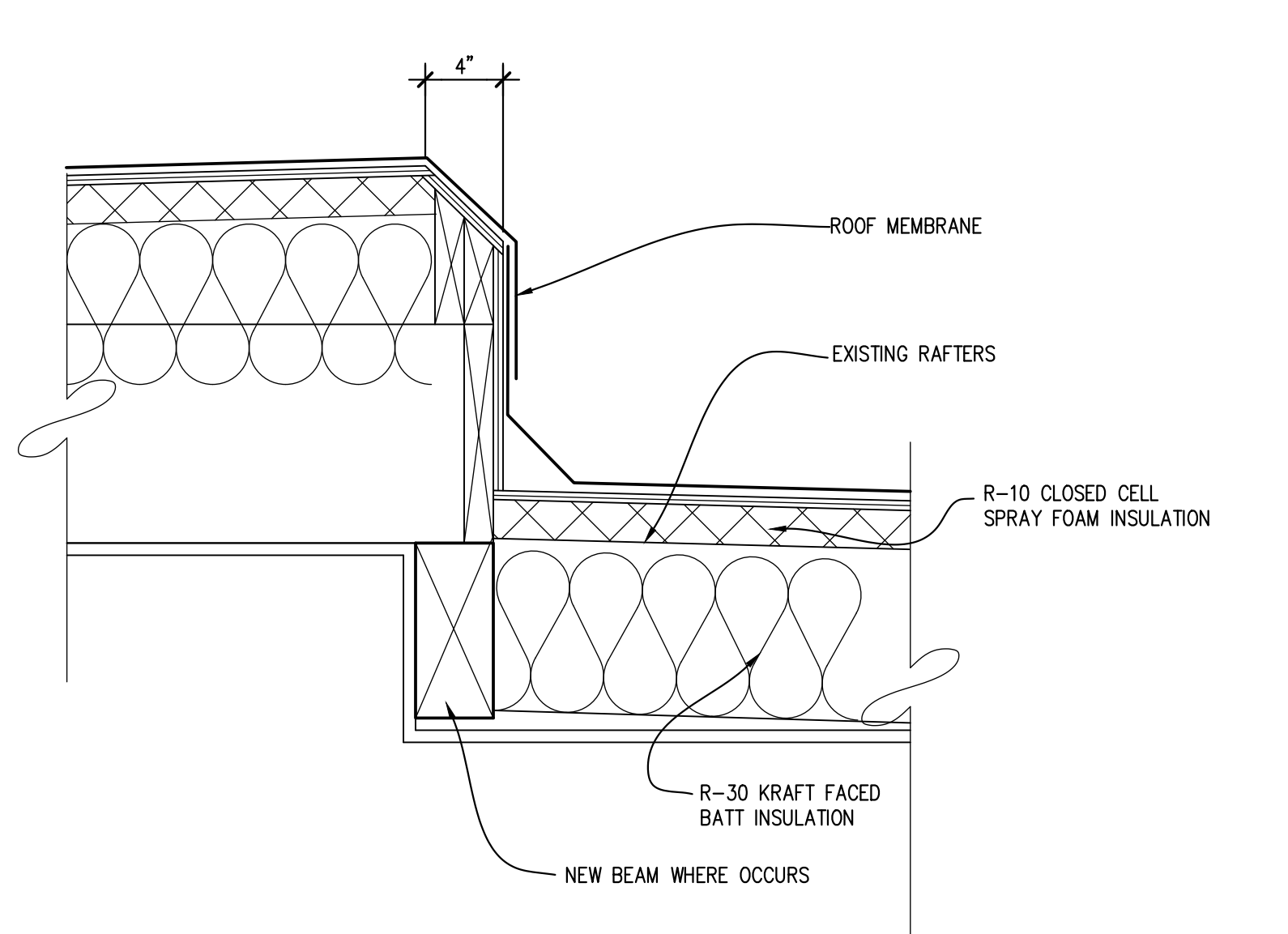
Sheet No. **3.2**
 Project No. 2222
 Date: 6/7/23



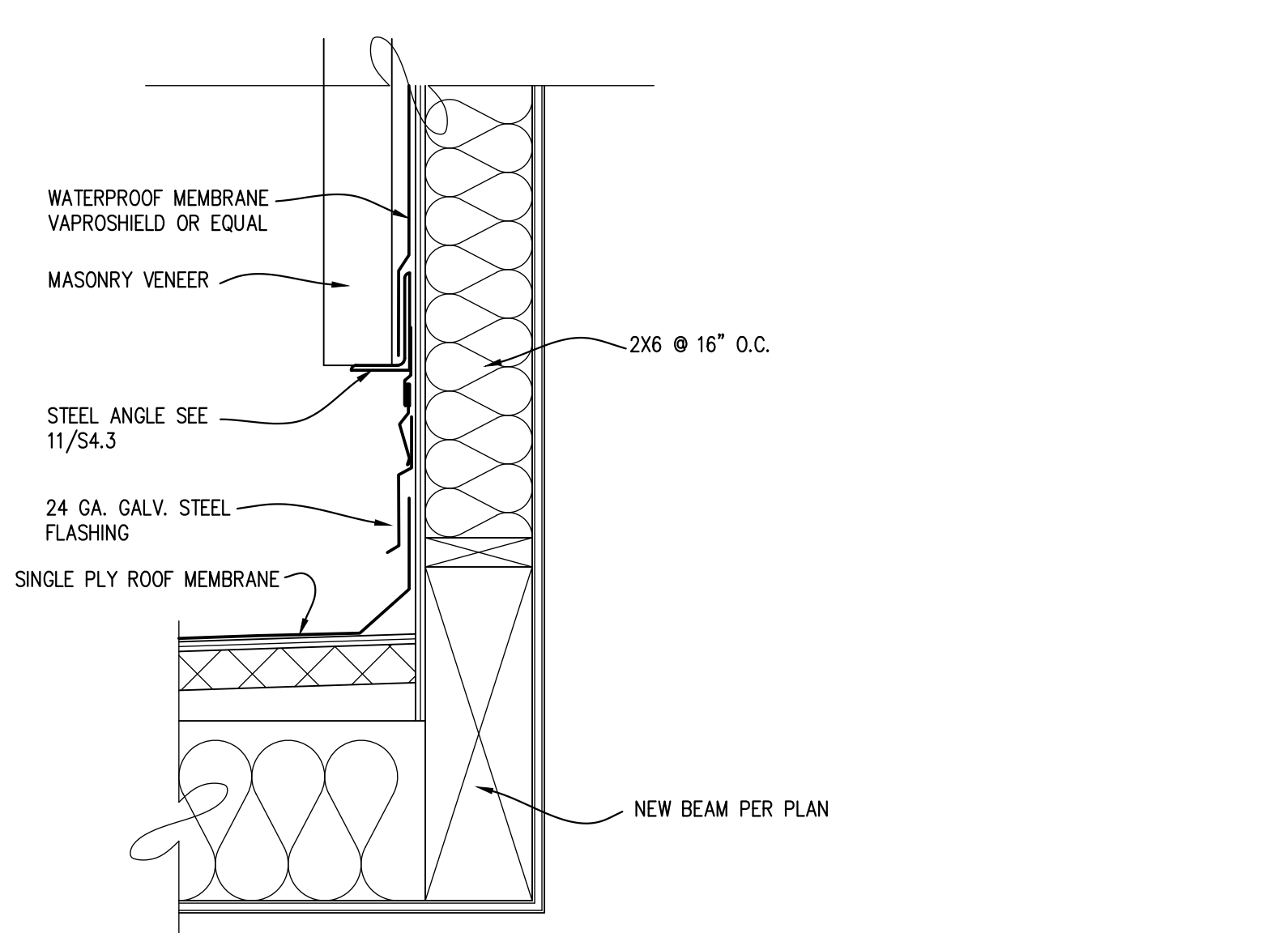
1 DETAIL
1-1/2" = 1'-0"



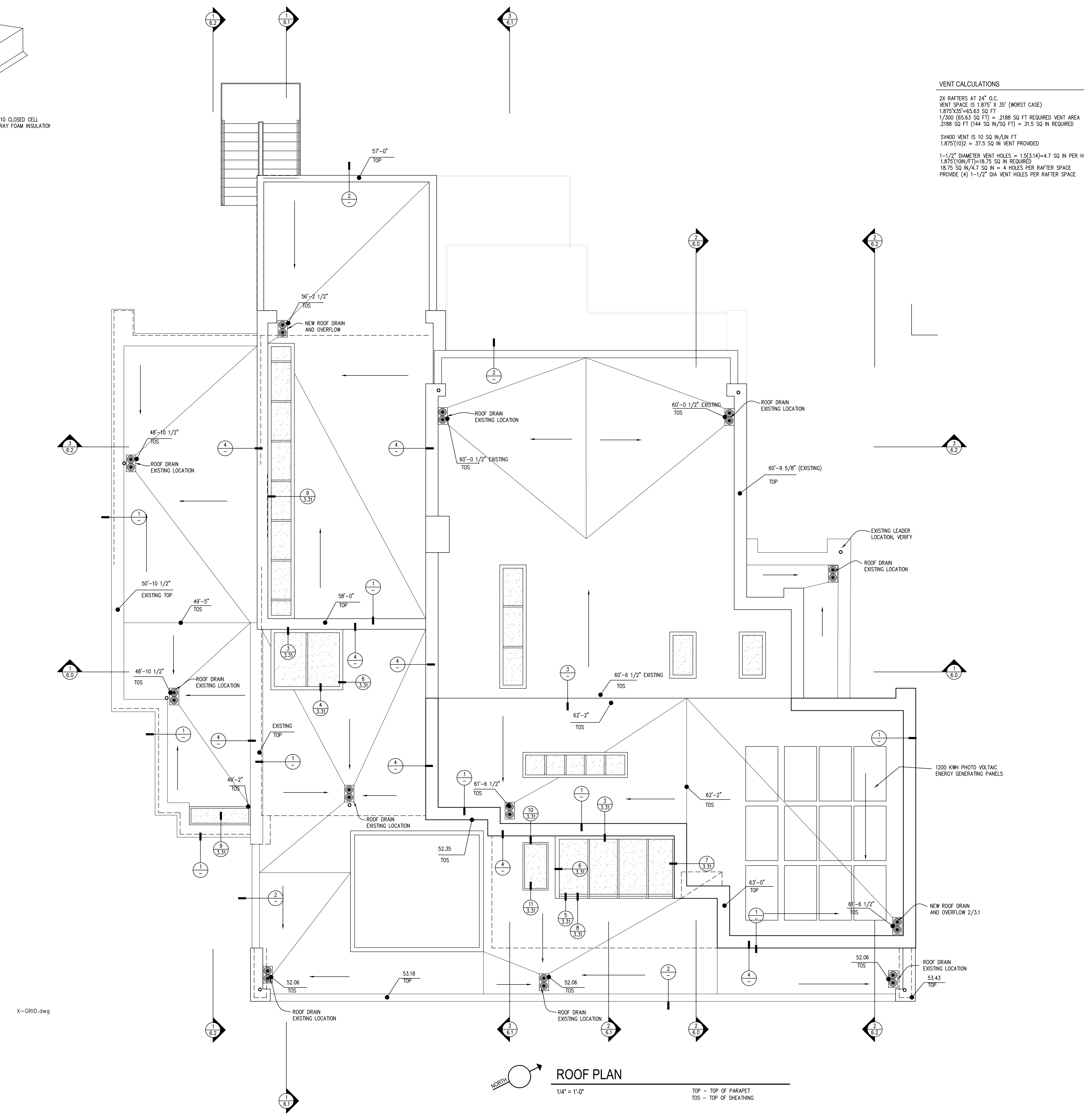
2 DETAIL
1-1/2" = 1'-0"



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



4 DETAIL
1-1/2" = 1'-0"



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

TOP - TOP OF PARAPET
TOS - TOP OF SHEATHING

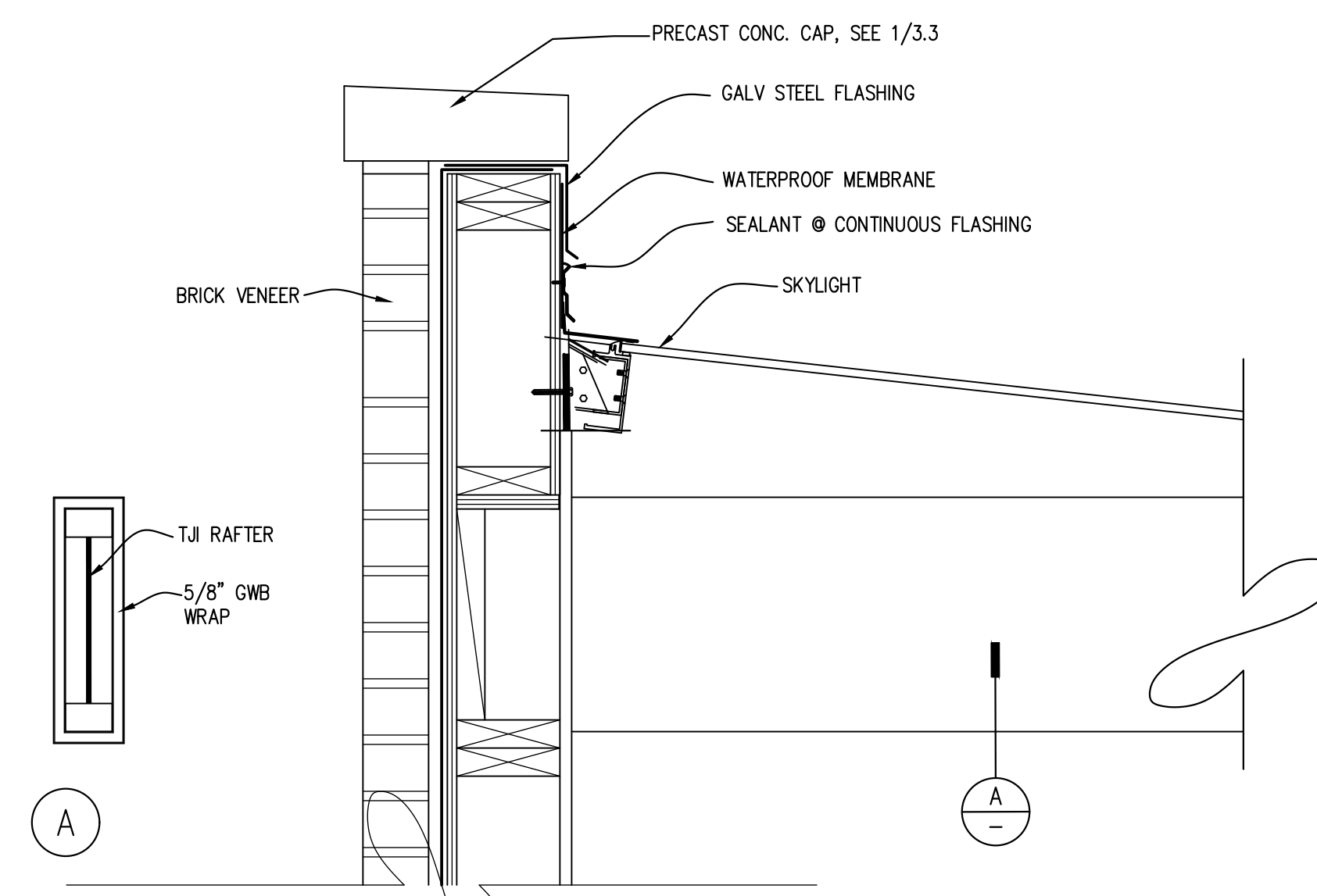
VENT CALCULATIONS

2X RAFTERS AT 24" O.C.
 VENT SPACE IS 1.875' X 35' (WORST CASE)
 1.875X35=65.63 SQ FT
 1/300 (65.63 SQ FT) = .2188 SQ FT REQUIRED VENT AREA
 .2188 SQ FT (144 SQ IN/SQ FT) = 31.5 SQ IN REQUIRED
 SV400 VENT IS 10 SQ IN/LIN FT
 1.875(10)2 = 37.5 SQ IN VENT PROVIDED
 1-1/2" DIAMETER VENT HOLES = 1.5(3.14)=4.7 SQ IN PER HOLE
 1.875(10)(4.7)=18.75 SQ IN REQUIRED
 18.75 SQ IN/(4.7 SQ IN = 4 HOLES PER RAFTER SPACE
 PROVIDE (4) 1-1/2" DIA VENT HOLES PER RAFTER SPACE

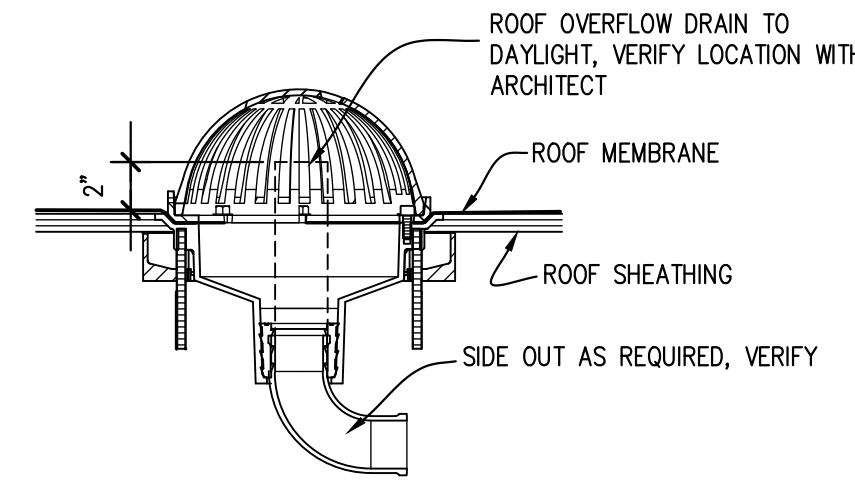


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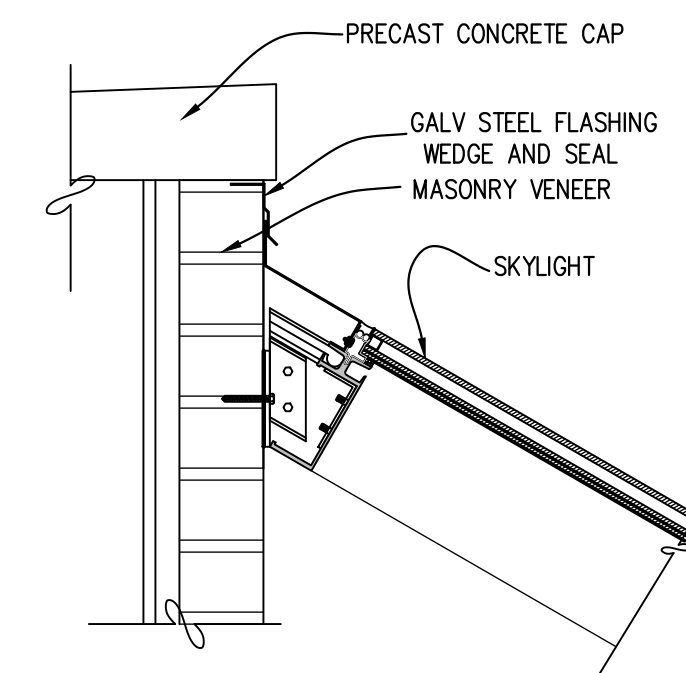
ROOF PLAN



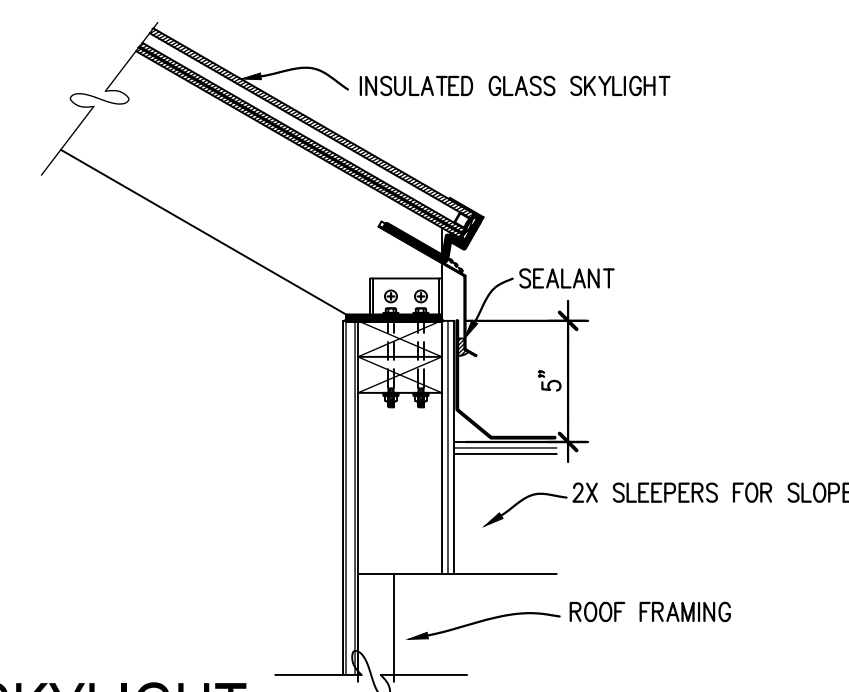
1 DETAIL
1-1/2" = 1'-0"



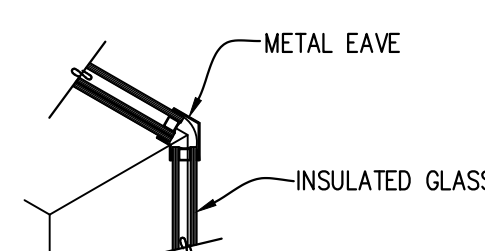
2 ROOF DRAIN
1-1/2" = 1'-0"



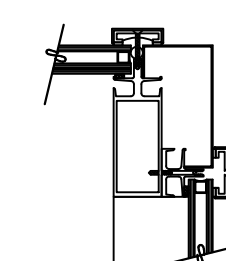
3 GREENHOUSE
1-1/2" = 1'-0"



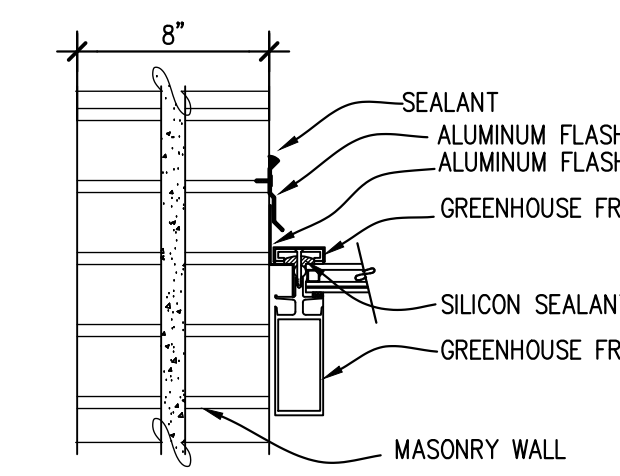
4 SKYLIGHT
1-1/2" = 1'-0"



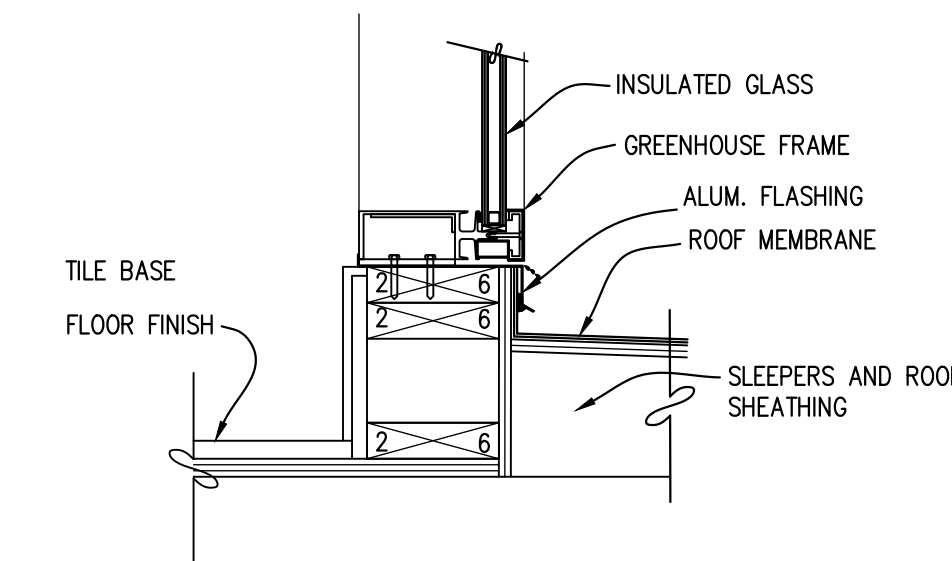
5 GREEN HOUSE
1-1/2" = 1'-0"



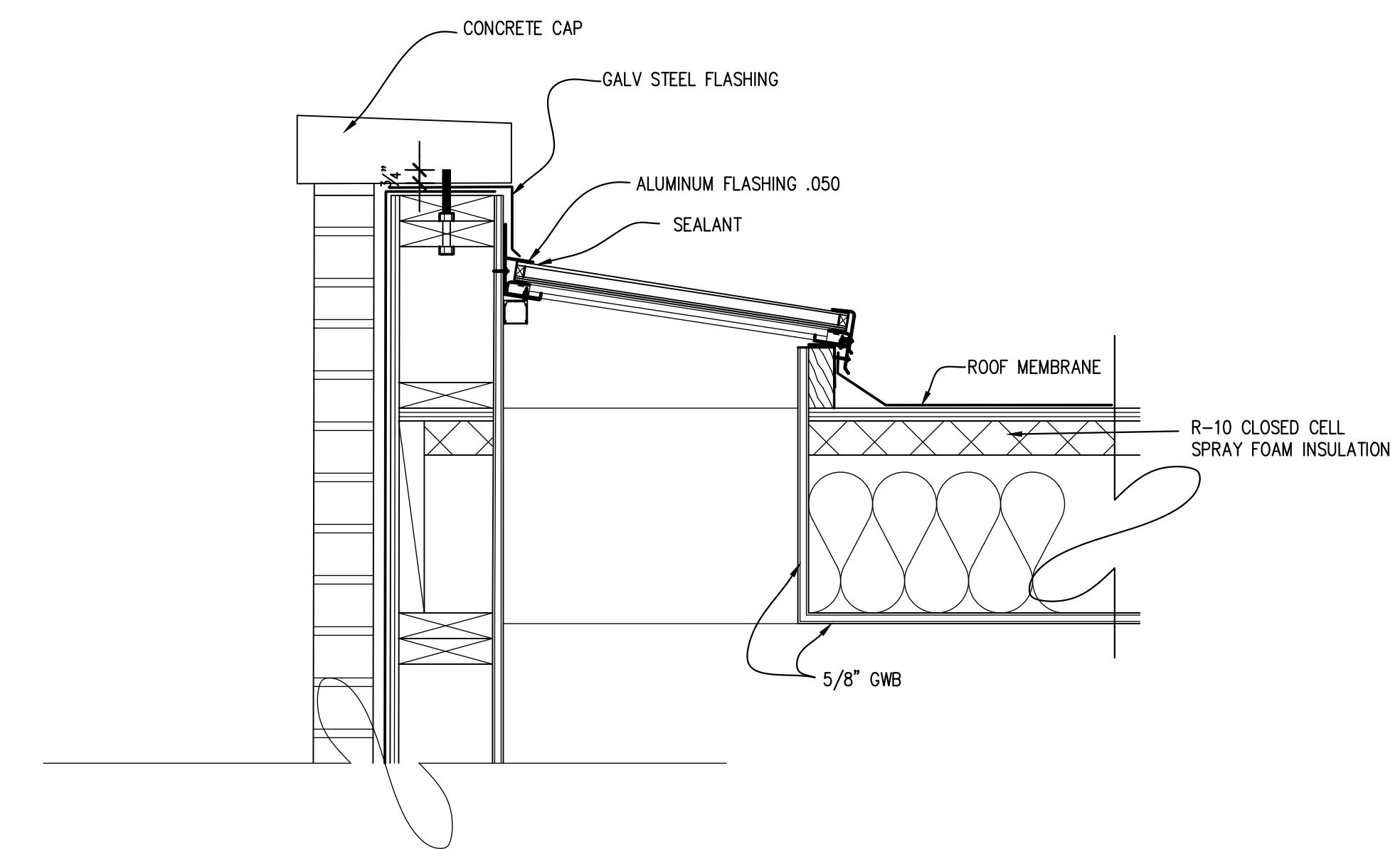
6 GREENHOUSE
1-1/2" = 1'-0"



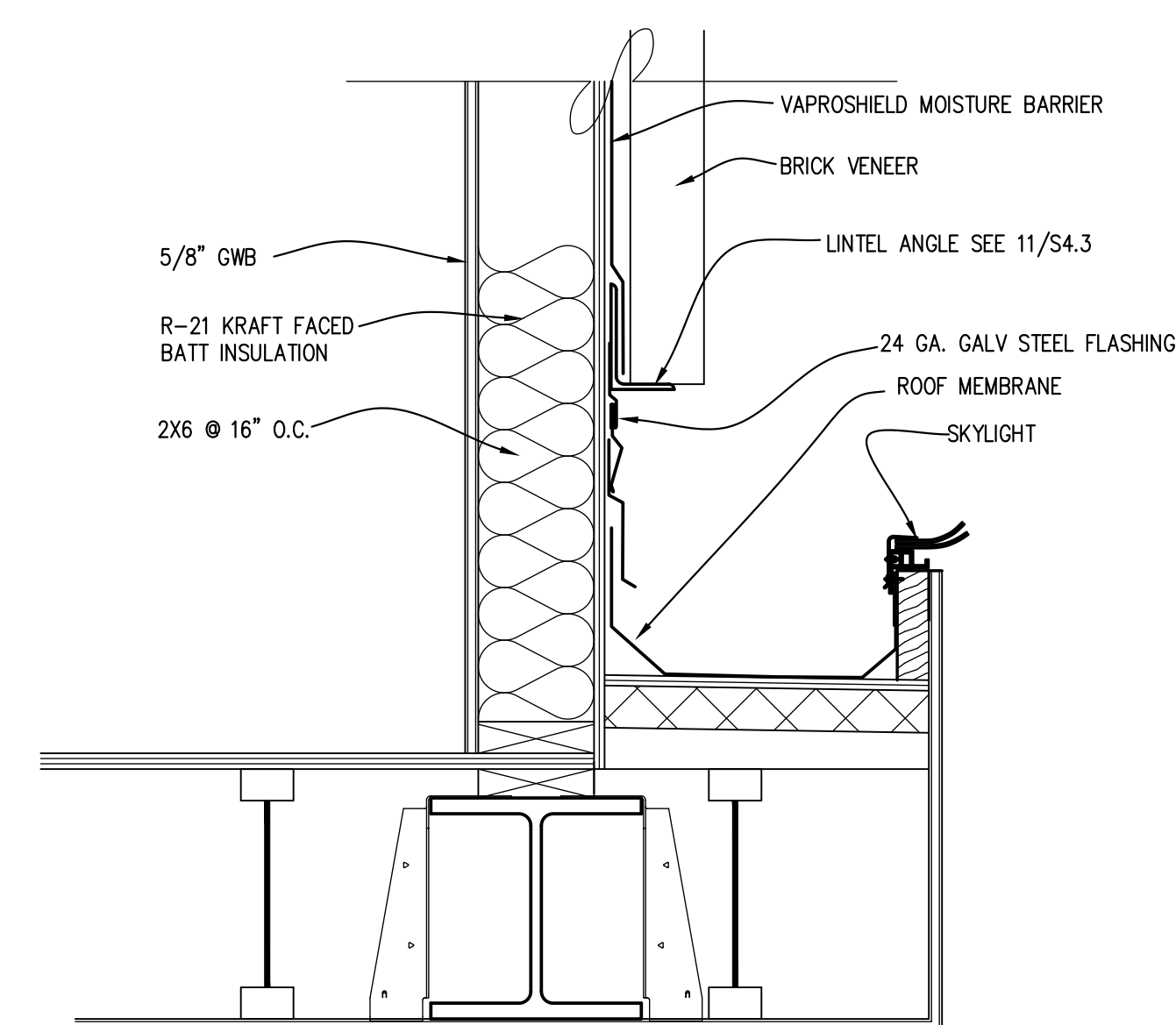
7 GREENHOUSE RAKE
1-1/2" = 1'-0"



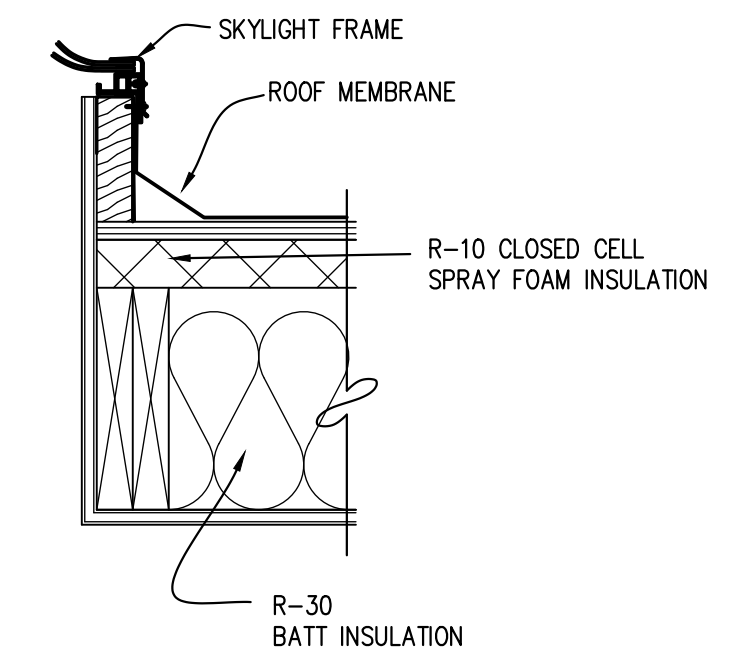
8 GREENHOUSE
1-1/2" = 1'-0"



9 SKYLIGHT
1-1/2" = 1'-0"



10 SKYLIGHT
1-1/2" = 1'-0"



11 SKYLIGHT
1-1/2" = 1'-0"

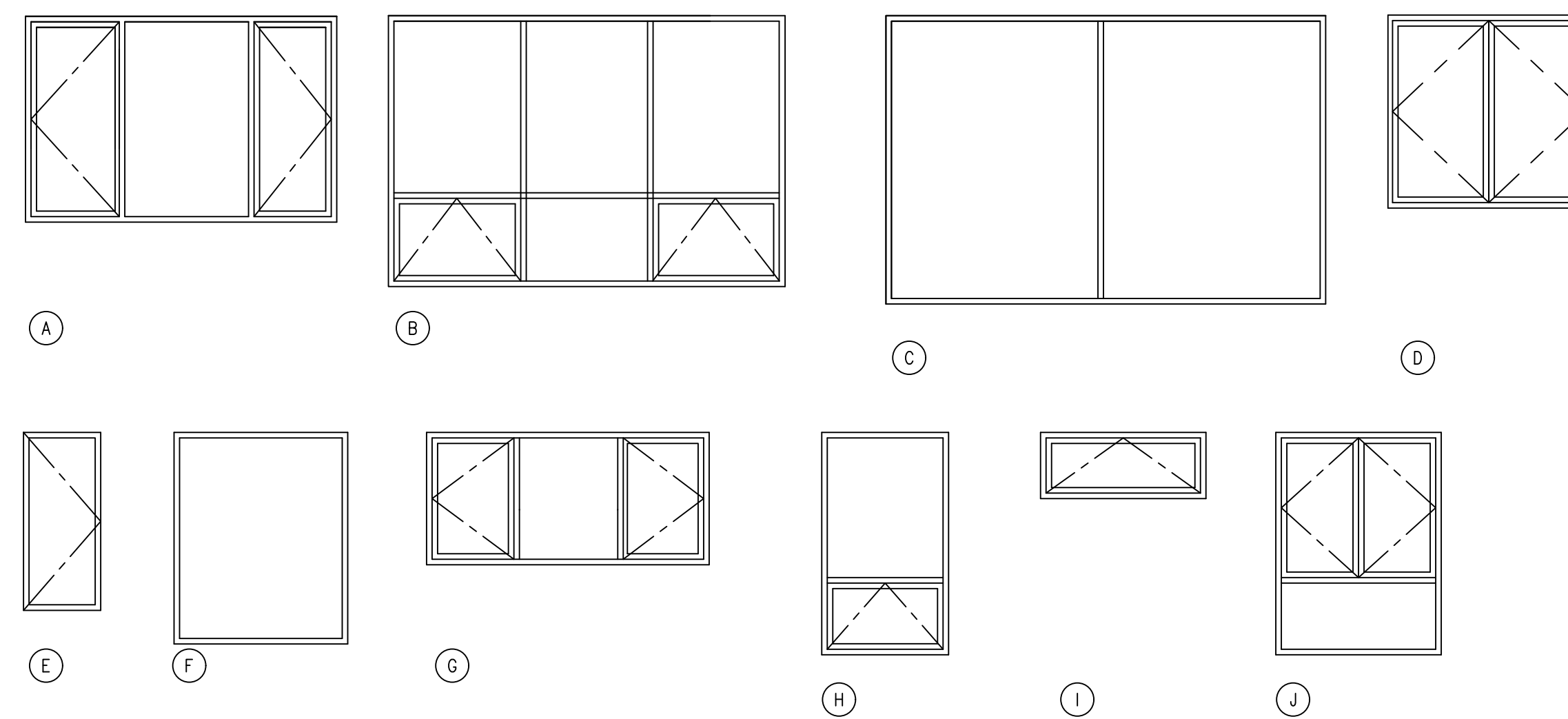


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WINDOW SCHEDULE									
#	ROUGH OPENING		TYPE	DETAILS				REMARKS	
	WIDTH	HEIGHT		U-VALUE	HEAD DET./SH/#	JAMB DET./SH/#	JAMB DET./SH/#		SILL DET./SH/#
1	9'-0"	6'-3"	EGRESS	A	-	-	-	-	-
2	12'-0"	7'-3"	EGRESS	B	-	-	-	-	-
3	13'-8"	8'-6"	-	C	-	-	-	-	-
4	6'-6"	5'-9"	EGRESS	D	-	-	-	-	-
5	2'-4"	5'-3"	-	E	-	-	-	-	-
6	2'-4"	5'-3"	-	E	-	-	-	-	-
7	5'-6"	6'-3"	EGRESS	D	-	-	-	-	-
8	12'-6"	6'-3"	-	F	-	-	-	-	-
9	15'-4"	7'-9"	-	C	-	-	-	-	-
10	5'-4 1/2"	5'-6"	-	F	-	-	-	-	-
11	3'-8"	5'-9"	-	F	-	-	-	-	-
12	8'-8"	4'-0"	-	G	-	-	-	-	-
13	12'-0"	8'-0"	-	C	-	-	-	-	-
14	3'-0"	6'-6"	-	E	-	-	-	-	-
15	NOT USED	-	-	-	-	-	-	-	-
16	15'-3"	8'-3"	-	C	-	-	-	-	-
17	3'-8"	6'-9"	-	H	-	-	-	-	-
18	4'-8"	6'-9"	-	H	-	-	-	-	-
19	5'-0"	2'-0"	-	I	-	-	-	-	-
20	5'-0"	7'-0"	-	H	-	-	-	-	-
21	5'-0"	7'-0"	EGRESS	J	-	-	-	-	-

WINDOW TYPES

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



DOOR SCHEDULE																	
#	DOOR DIMENSION (NOTE: VERIFY DOOR HEIGHT)		TYPE	DETAILS				LOCK/SET	LATCH/SET	DEADBOLT	PRIVACY	FLUSH BOLTS	KNOB/PULL	CLOS. LATCH	BUTTS	WEATHERST.	REMARKS
	WIDTH	HEIGHT		U-VALUE	HEAD DET./SH/#	JAMB DET./SH/#	JAMB DET./SH/#										
1	5'-0"	8'-0"	-	1/4.2	2/4.2	3/4.2	4/4.2	0	0	0	0	0	0	0	0	0	RIXSON 375 PIVOT
2	3'-0"	7'-0"	-	7/4.2	8/4.2	8/4.2	-	0	0	0	0	0	0	0	0	0	EXISTING ROUGH OPENING
3	10'-8"	9'-6"	-	9/4.2	10/4.2	10/4.2	11/4.2	0	0	0	0	0	0	0	0	0	LIFT/SLIDE
4	14'-11"	9'-6"	-	12/4.2	10/4.2	10/4.2	11/4.2	0	0	0	0	0	0	0	0	0	LIFT/SLIDE
5	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	-
6	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	-
7	9'-0"	9'-0"	-	9/4.2	10/4.2	10/4.2	-	0	0	0	0	0	0	0	0	0	-
8	3'-0"	8'-0"	-	13/4.2	13/4.2	13/4.2	-	0	0	0	0	0	0	0	0	0	-
9	10'-8"	8'-2"	-	9/4.2	10/4.2	10/4.2	-	0	0	0	0	0	0	0	0	0	-
10	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
11	PR 3'-0"	-	-	18/4.2	16/4.2	17/4.2	-	0	0	0	0	0	0	0	0	0	RIXSON 128-3/4
12	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
13	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
14	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
15	12'-4"	9'-6"	-	19/4.2	-	-	-	0	0	0	0	0	0	0	0	0	-
16	2'-8"	-	-	22/4.2	20/4.2	21/4.2	-	0	0	0	0	0	0	0	0	0	-
17	2'-8"	7'-0"	-	23/4.2	23/4.2	23/4.2	-	0	0	0	0	0	0	0	0	0	SOLID CORE WITH CLOSER
18	4'-4"	9'-6"	-	19/4.2	-	-	-	0	0	0	0	0	0	0	0	0	-
19	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
20	2'-8"	-	-	22/4.2	20/4.2	21/4.2	-	0	0	0	0	0	0	0	0	0	POCKET DOOR
21	3'-0"	7'-0"	-	23/4.2 SM	23/4.2 SM	23/4.2 SM	-	0	0	0	0	0	0	0	0	0	-
22	30 3'-6"	-	-	24/4.2	25/4.2	26/4.2	-	0	0	0	0	0	0	0	0	0	-
23	3'-0"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
24	3'-0"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
25	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
26	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
27	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
28	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
29	PR 3'-0"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
30	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
31	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
32	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
33	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
34	2'-6"	-	-	22/4.2	20/4.2	21/4.2	-	0	0	0	0	0	0	0	0	0	-
35	2'-8"	-	-	23/4.2	23/4.2	23/4.2	-	0	0	0	0	0	0	0	0	0	-
36	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
37	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
38	2'-8"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
39	PR 1'-10"	-	-	27/4.2	29/4.2	29/4.2	28/4.2	0	0	0	0	0	0	0	0	0	-
40	3'-2"	8'-3"	-	30/4.2	21/4.2	26/4.2 SM	-	0	0	0	0	0	0	0	0	0	POCKET DOOR
41	PB 3'-8"	6'-5"	-	31/4.2	32/4.2	32/4.2 SM	-	0	0	0	0	0	0	0	0	0	BIFOLD DOOR
42	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	SAUNA DOOR
43	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
44	2'-6"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
45	3'-0"	-	-	14/4.2	15/4.2	15/4.2	-	0	0	0	0	0	0	0	0	0	-
46	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	-
47	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	-
48	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	-
49	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	-

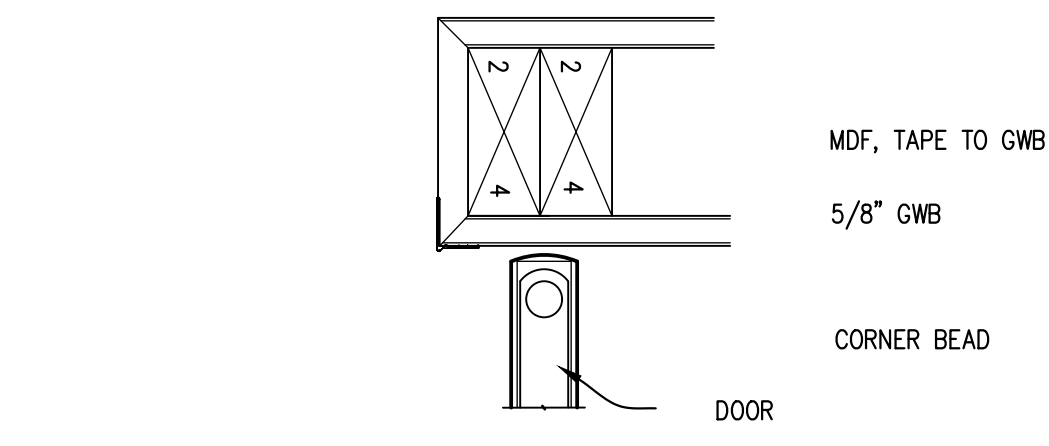
DOOR TYPES

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

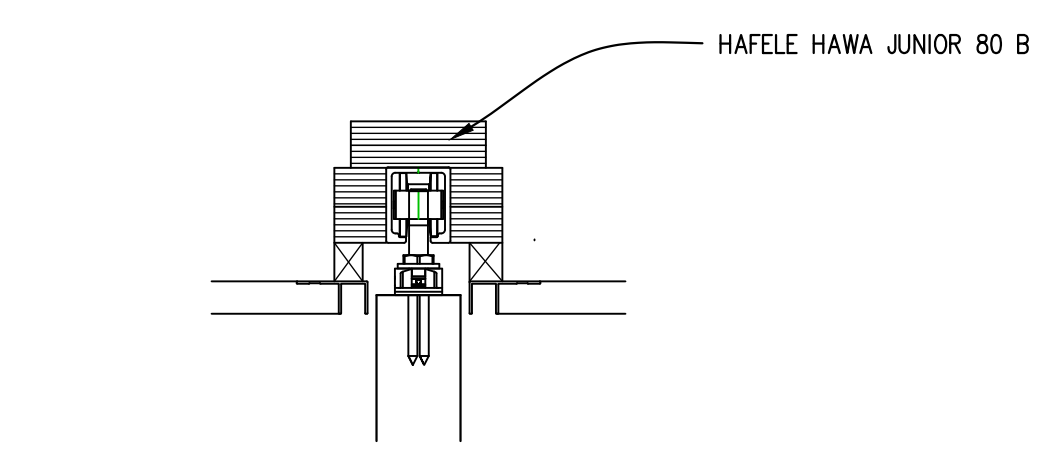


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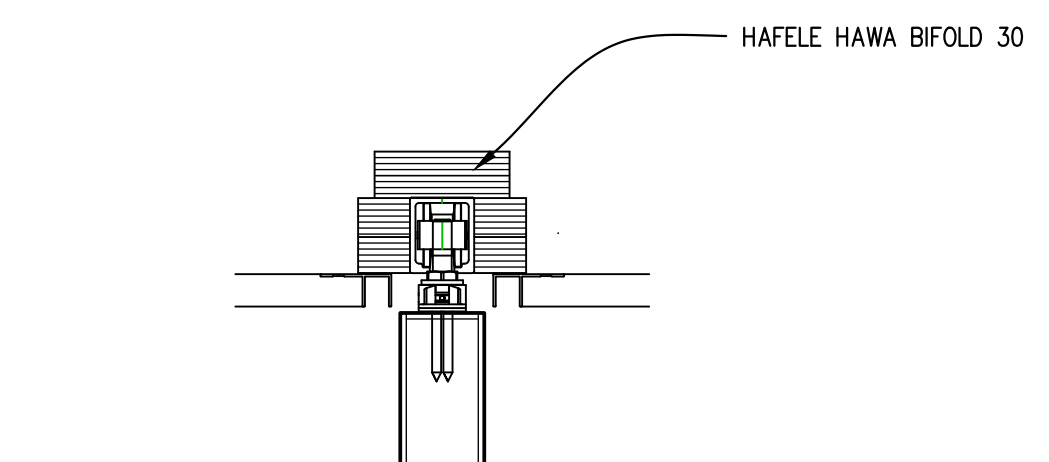
SCHEDULES



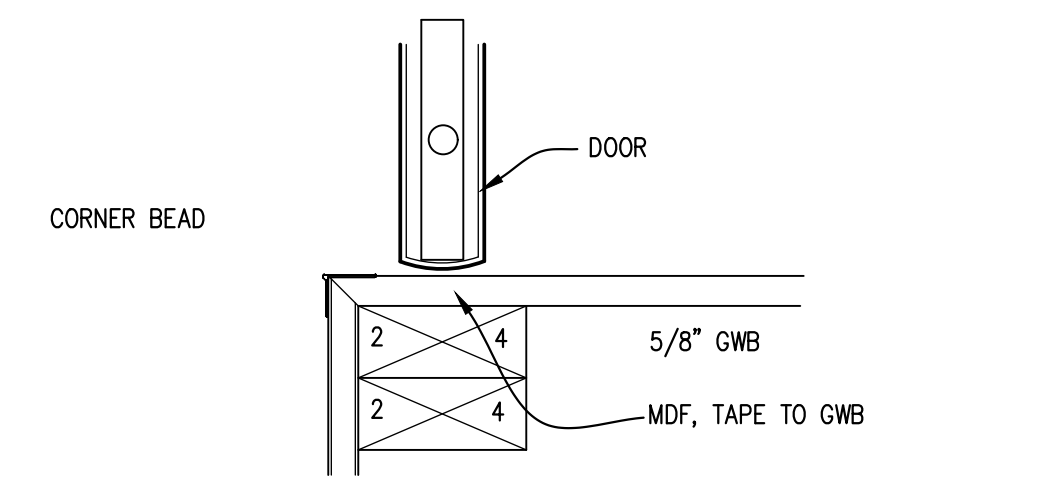
29 JAMB
3" = 1'-0"



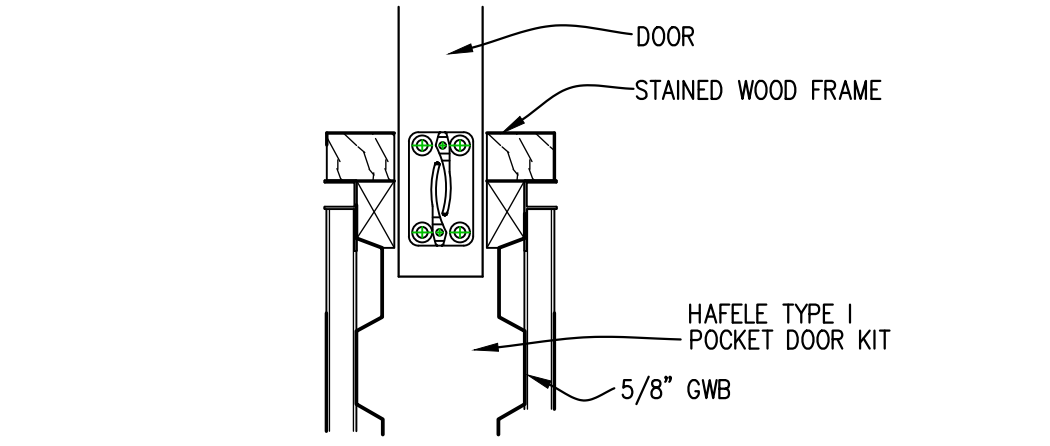
30 HEAD
3" = 1'-0"



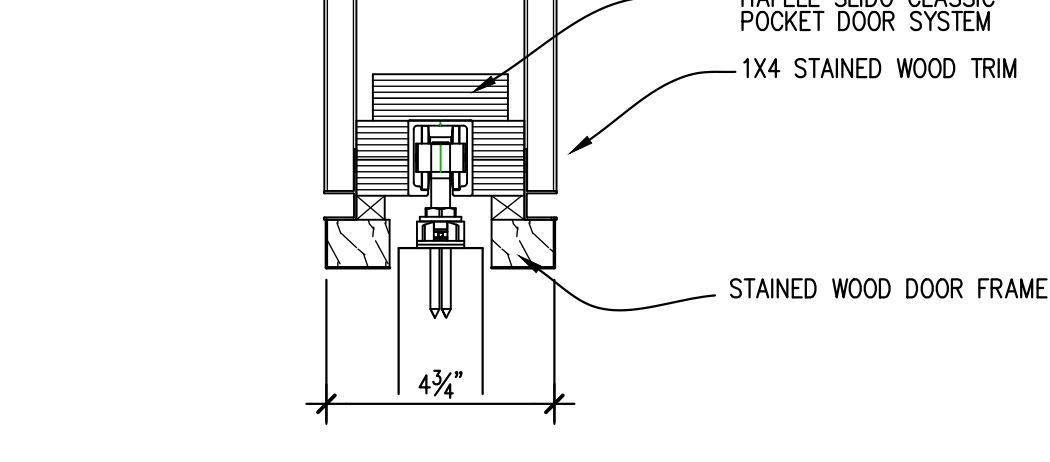
31 HEAD
3" = 1'-0"



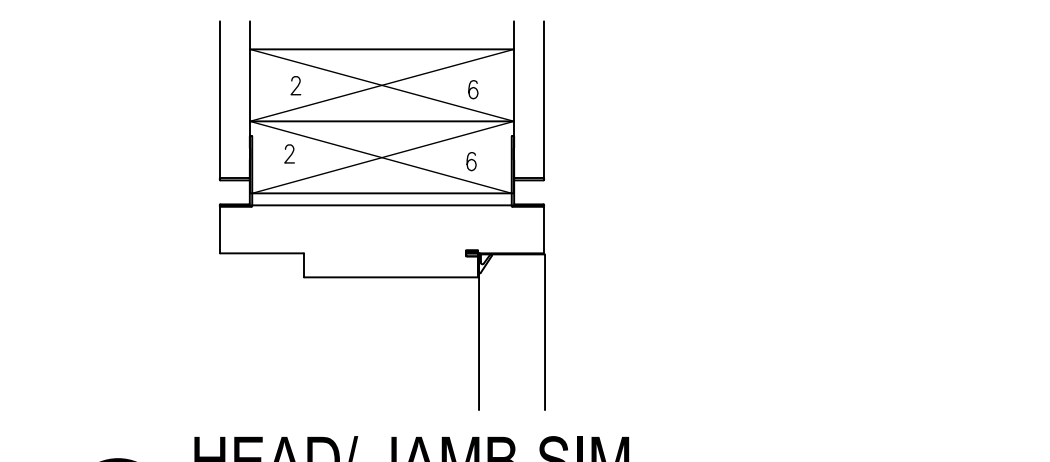
32 JAMB
3" = 1'-0"



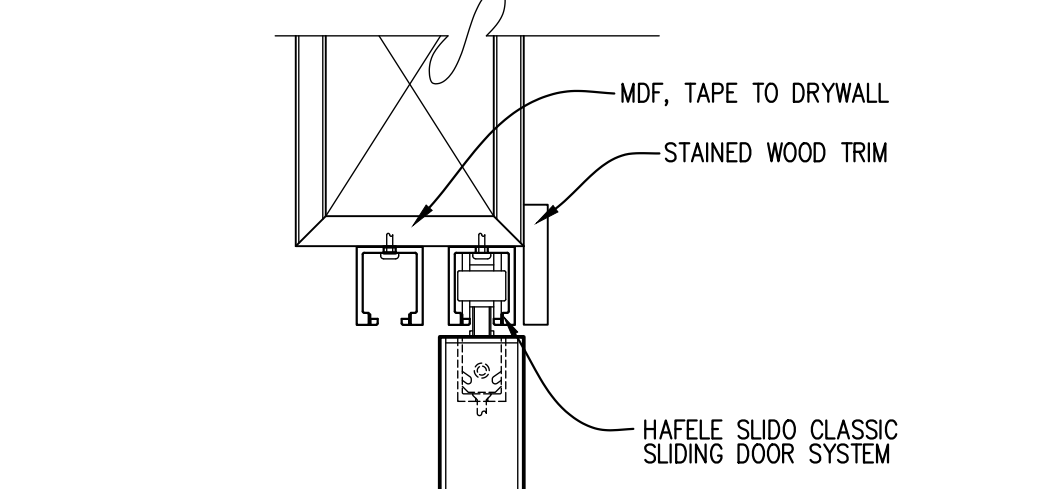
21 JAMB
3" = 1'-0"



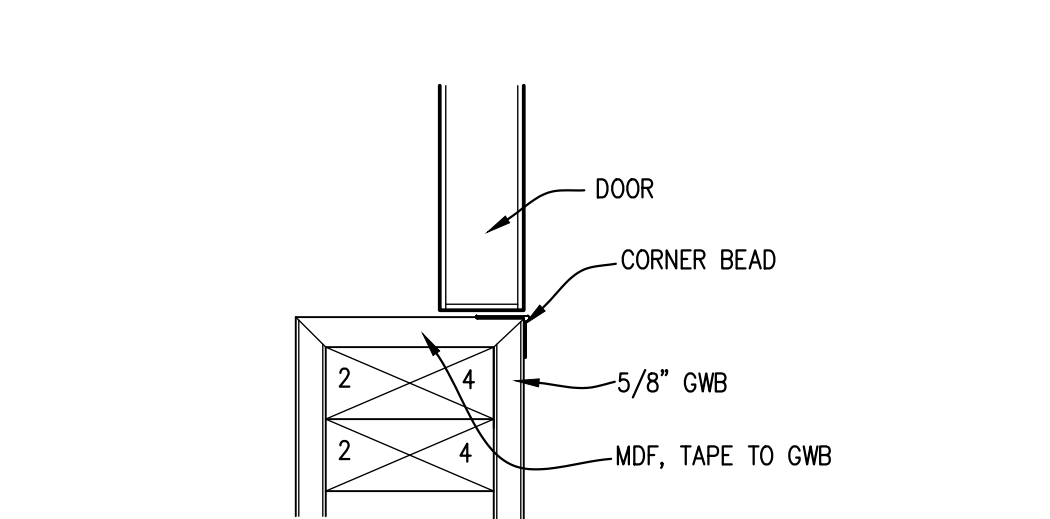
22 HEAD
3" = 1'-0"



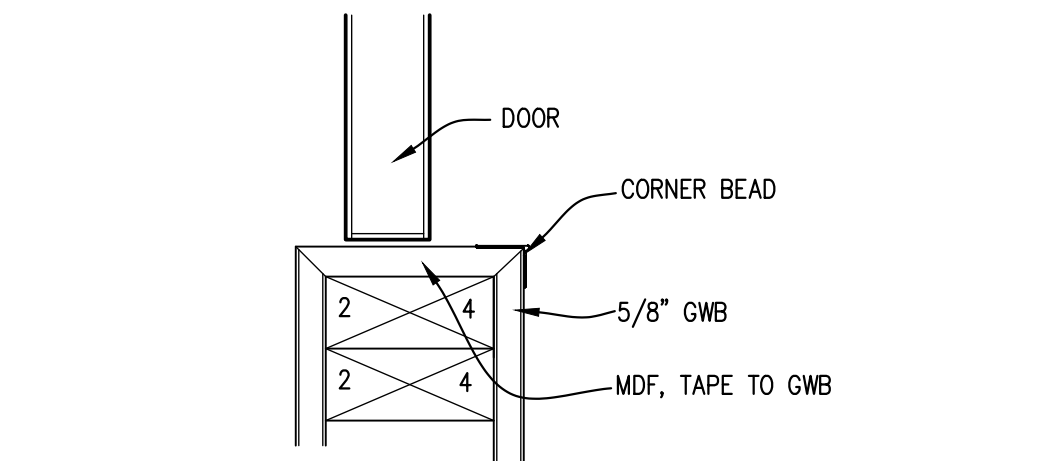
23 HEAD/JAMB SIM.
3" = 1'-0"



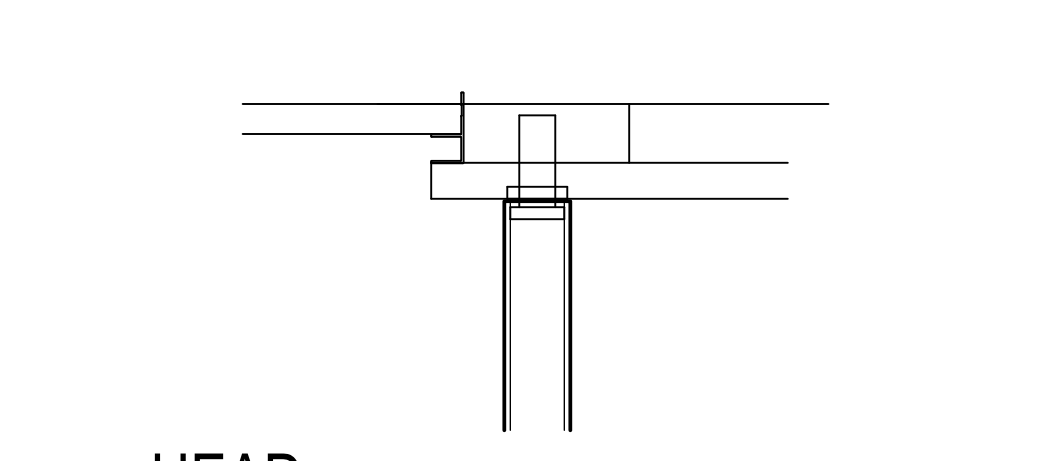
24 HEAD
3" = 1'-0"



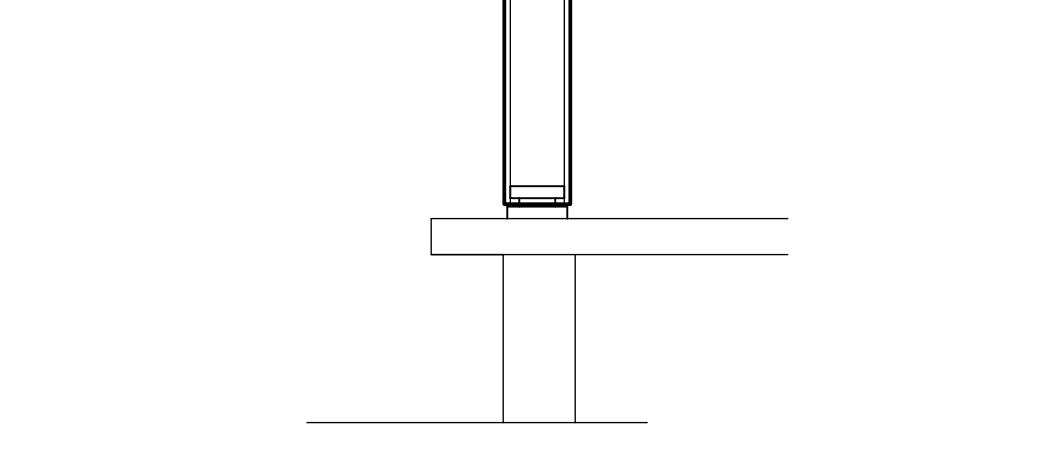
25 JAMB
3" = 1'-0"



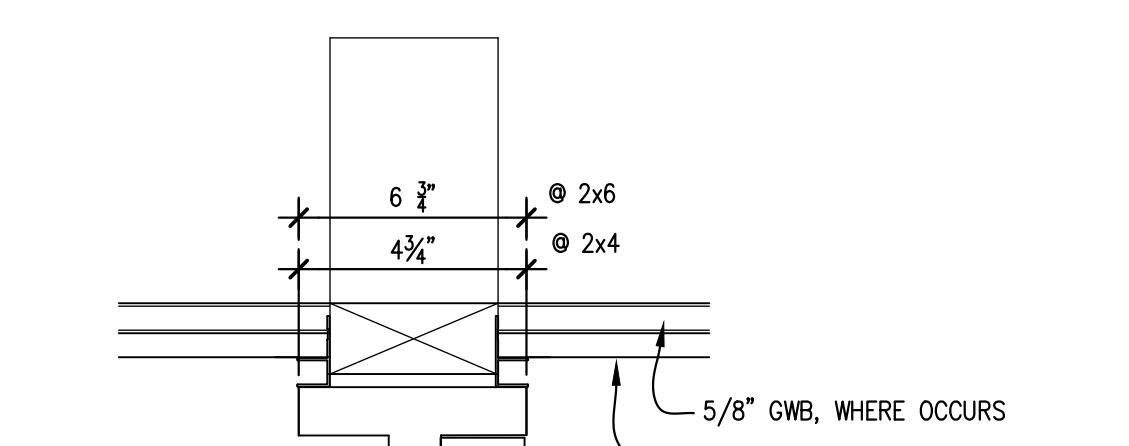
26 JAMB
3" = 1'-0"



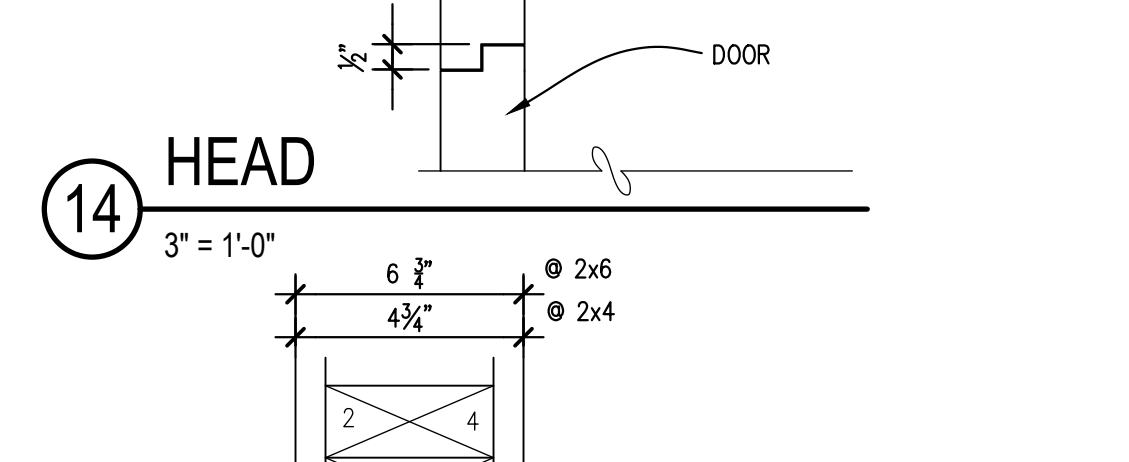
27 HEAD
3" = 1'-0"



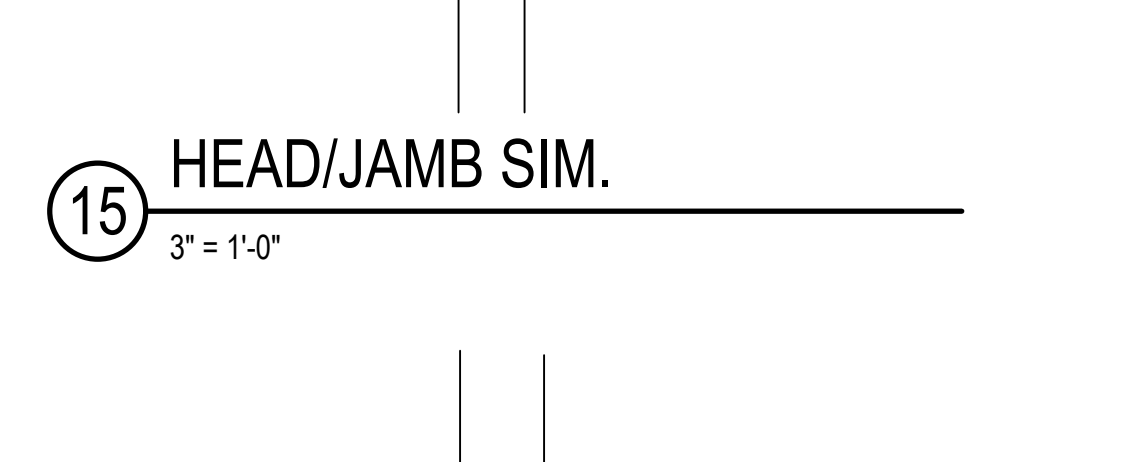
28 SILL
3" = 1'-0"



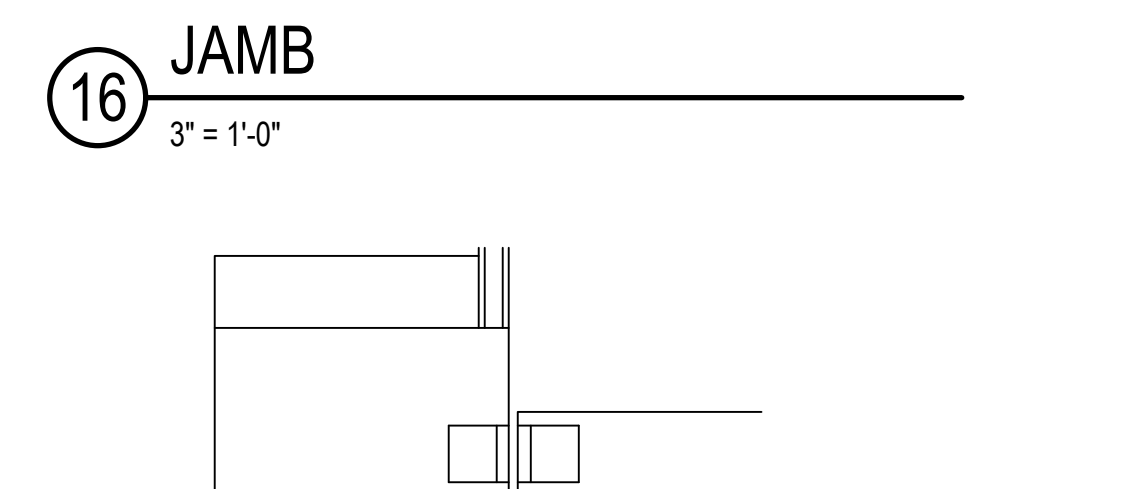
14 HEAD
3" = 1'-0"



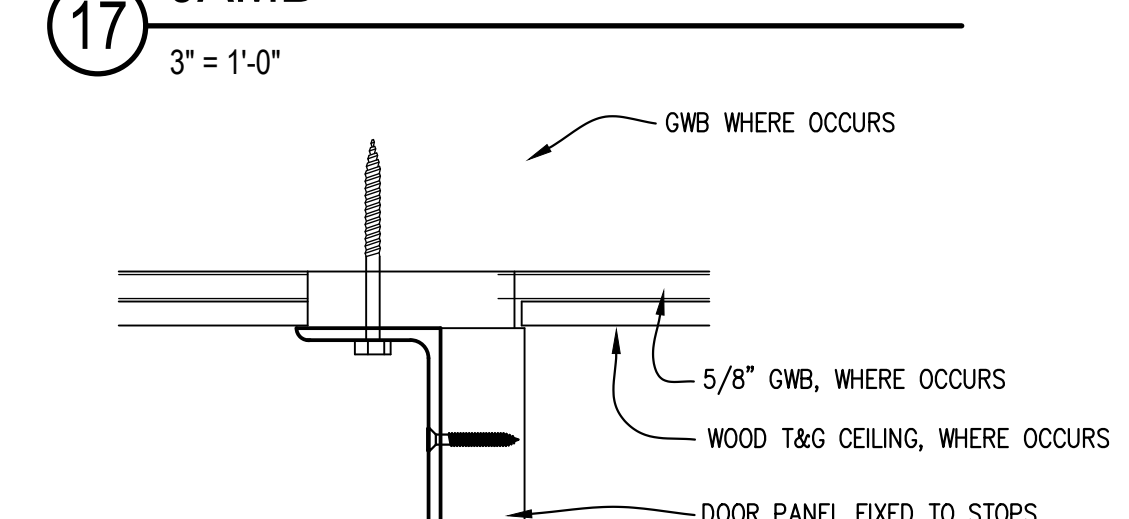
15 HEAD/JAMB SIM.
3" = 1'-0"



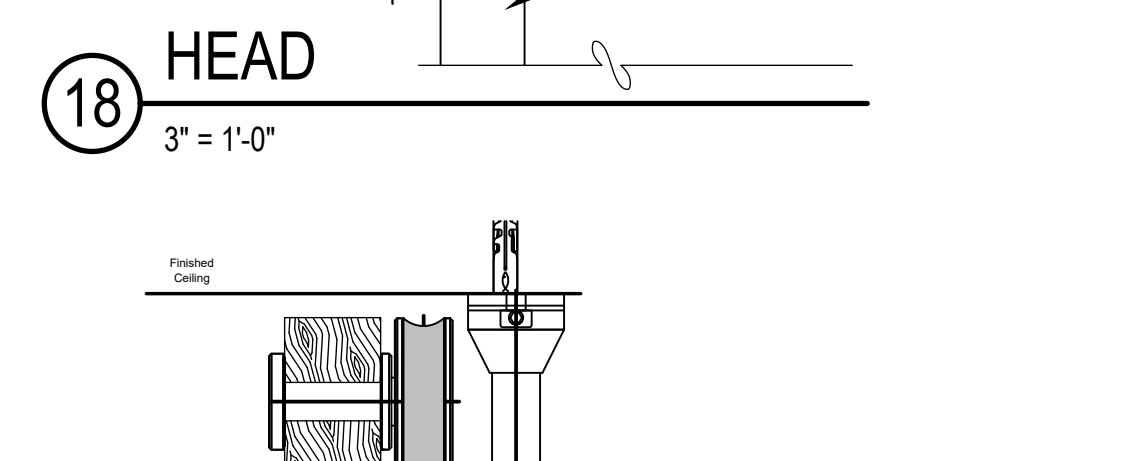
16 JAMB
3" = 1'-0"



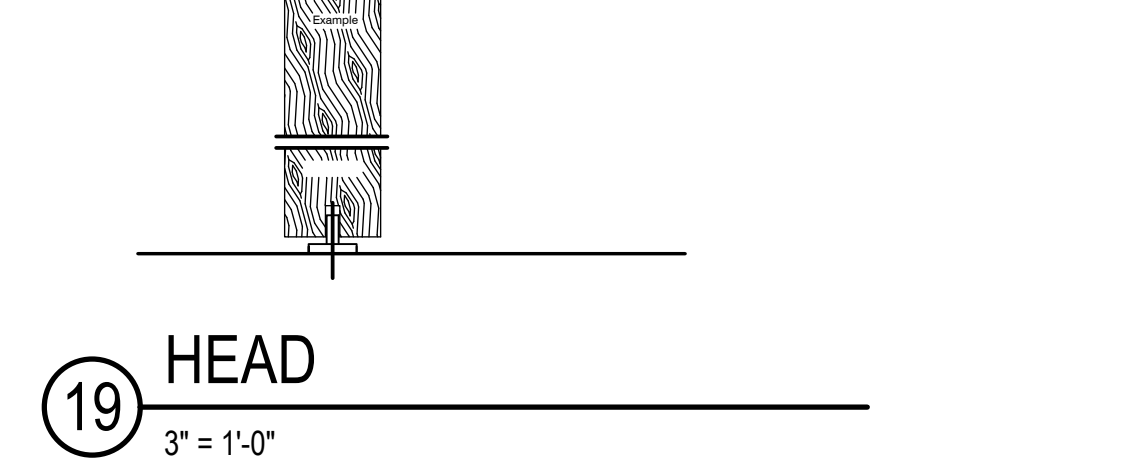
17 JAMB
3" = 1'-0"



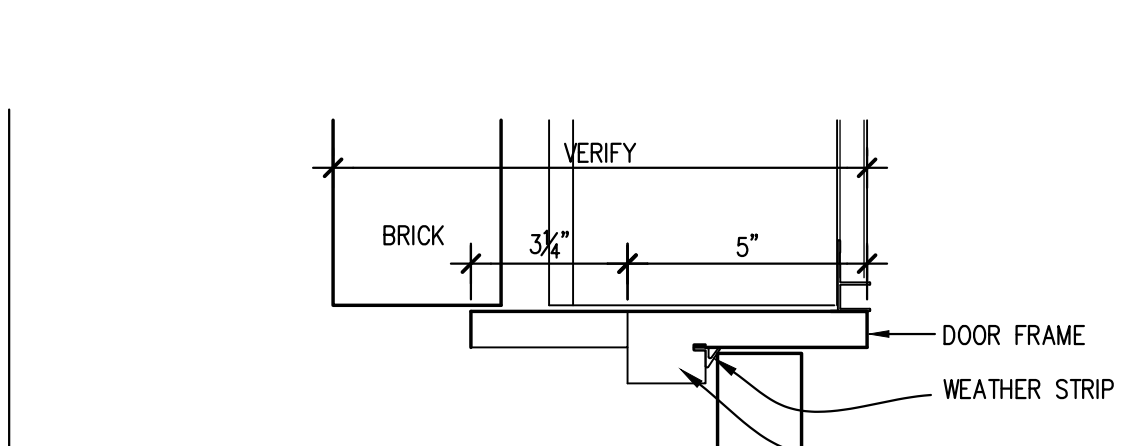
18 HEAD
3" = 1'-0"



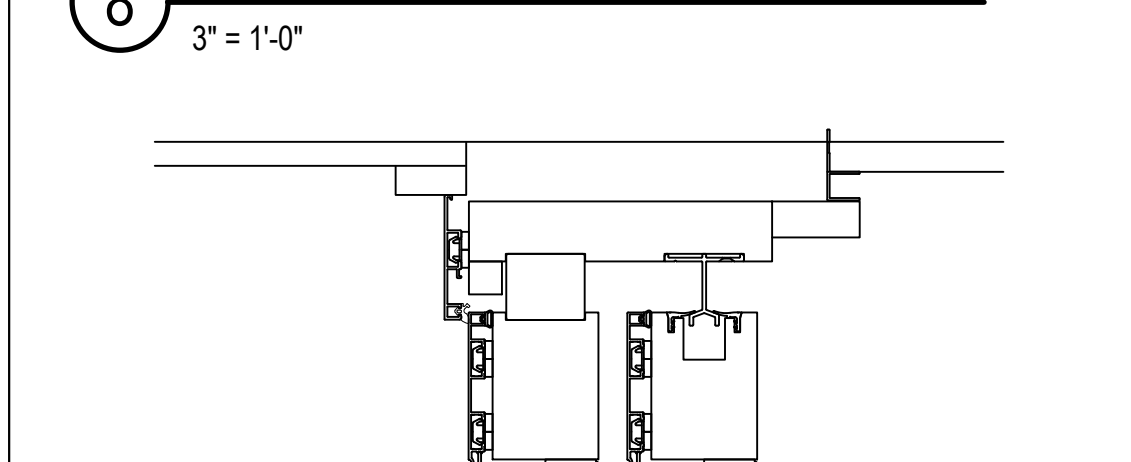
19 HEAD
3" = 1'-0"



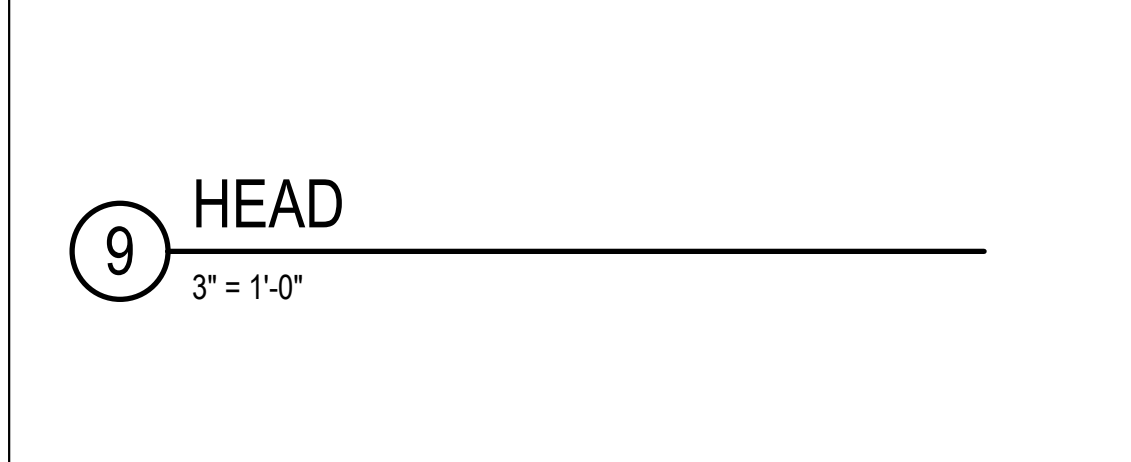
20 JAMB
3" = 1'-0"



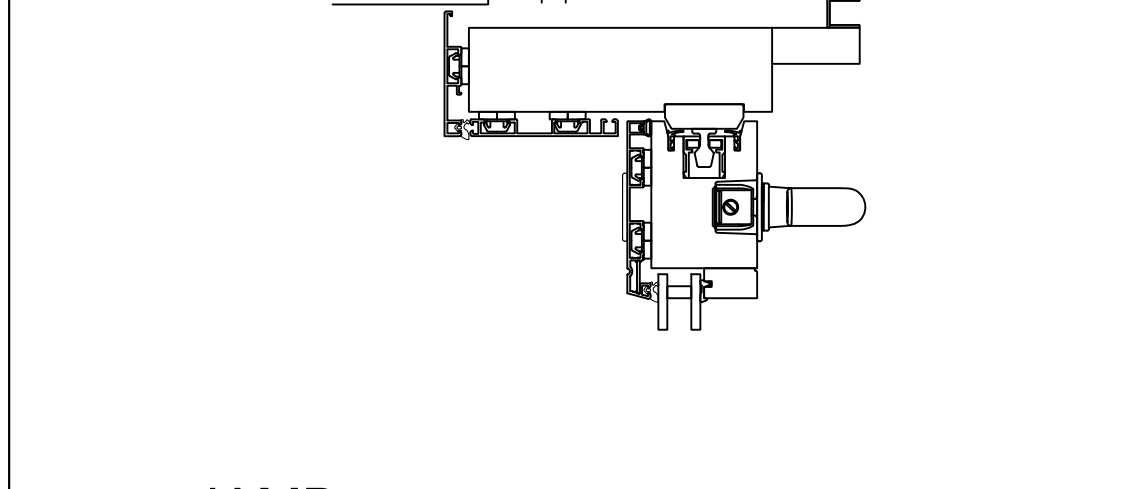
8 JAMB
3" = 1'-0"



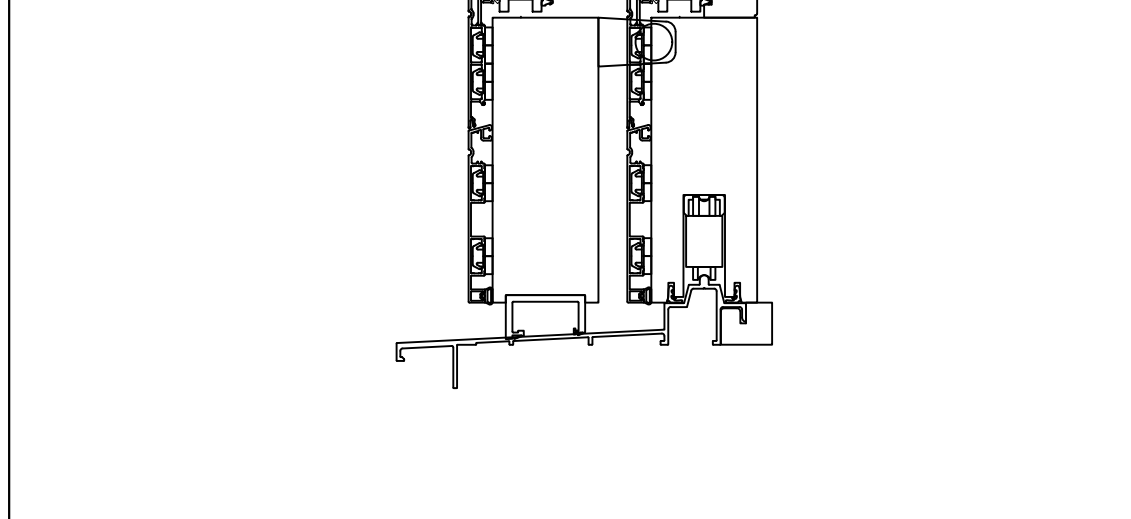
9 HEAD
3" = 1'-0"



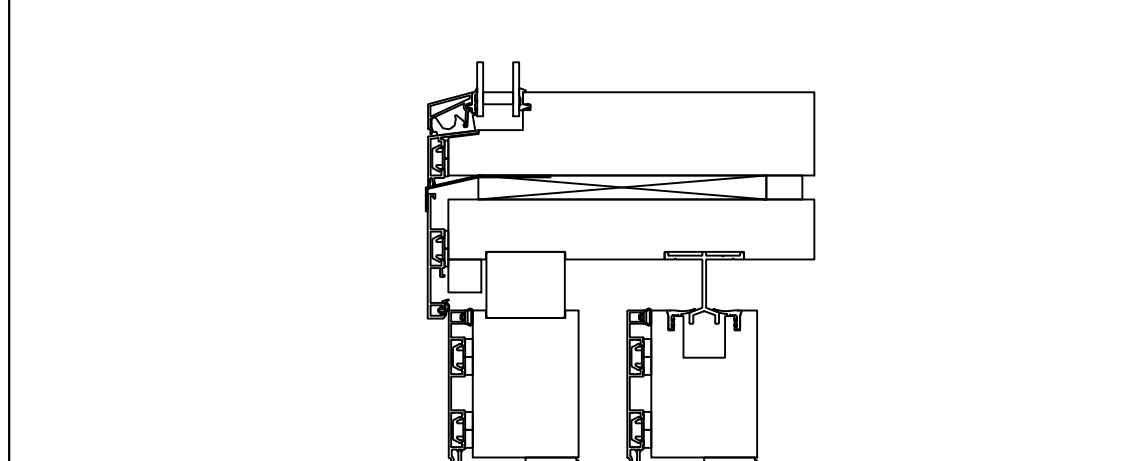
10 JAMB
3" = 1'-0"



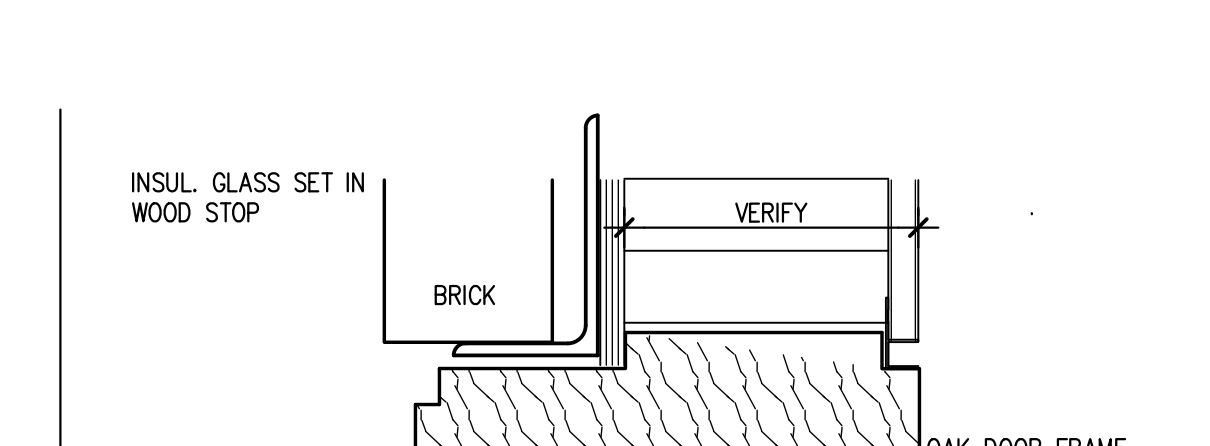
11 THRESHOLD
3" = 1'-0"



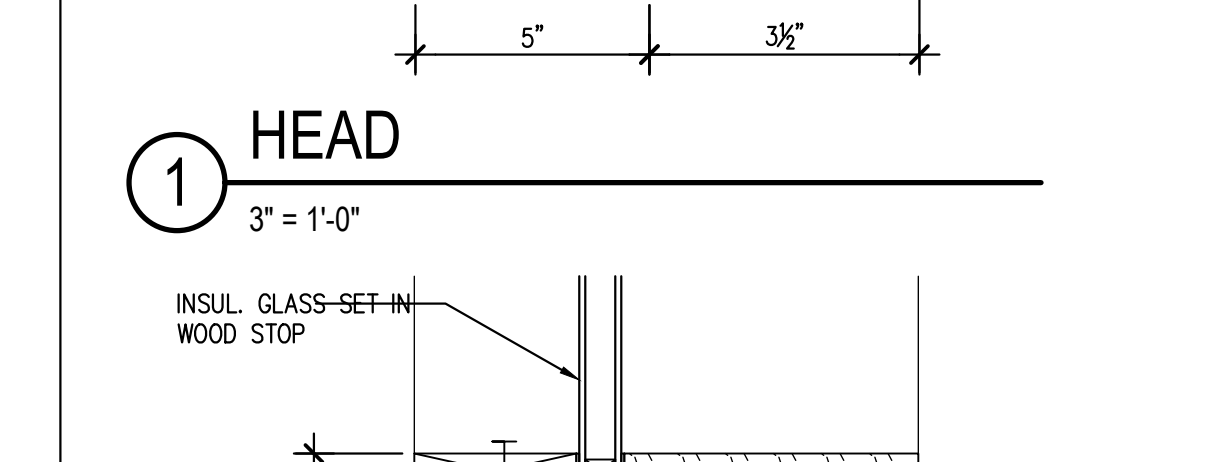
12 HEAD
3" = 1'-0"



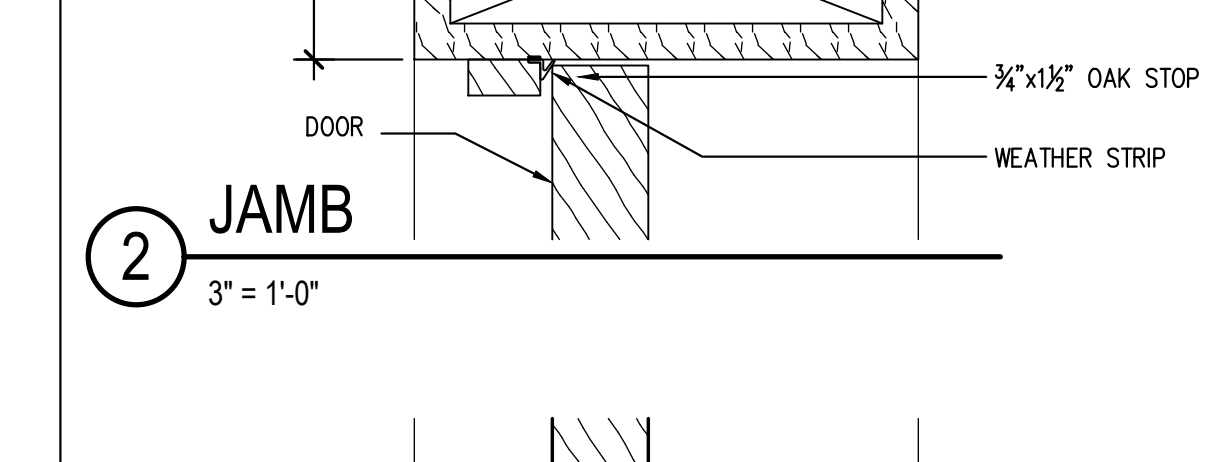
13 HEAD
3" = 1'-0"



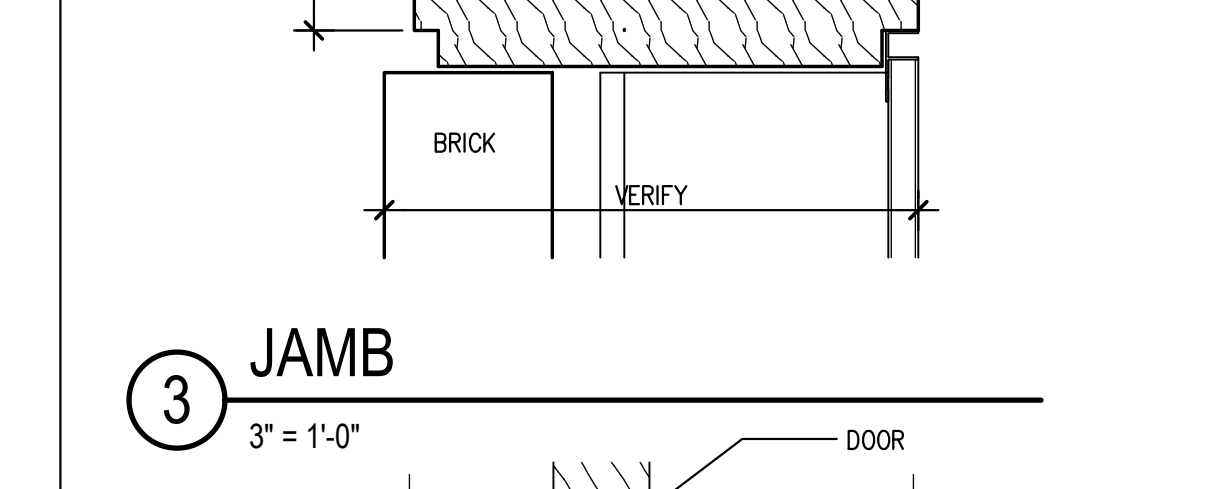
1 HEAD
3" = 1'-0"



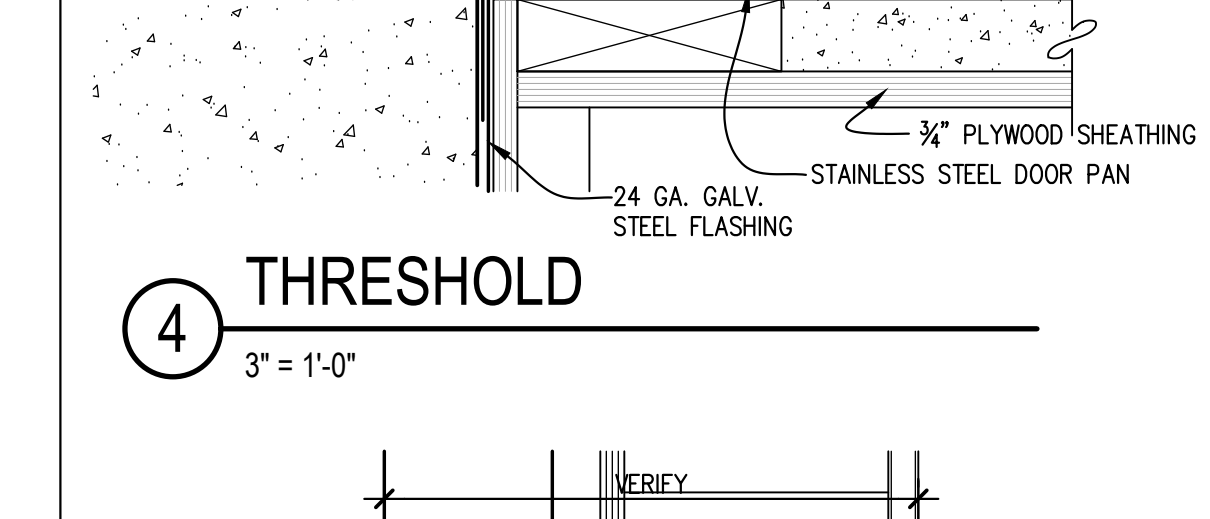
2 JAMB
3" = 1'-0"



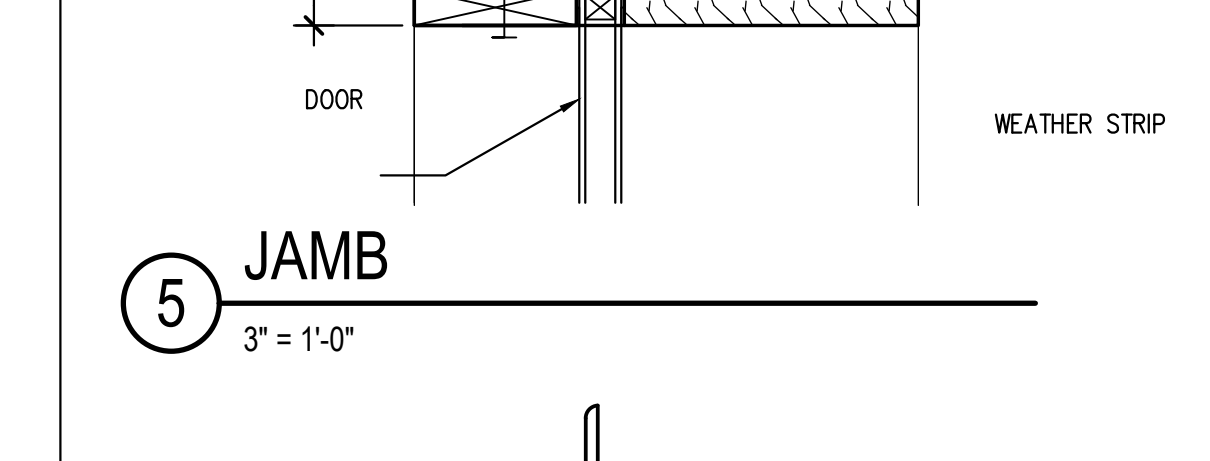
3 JAMB
3" = 1'-0"



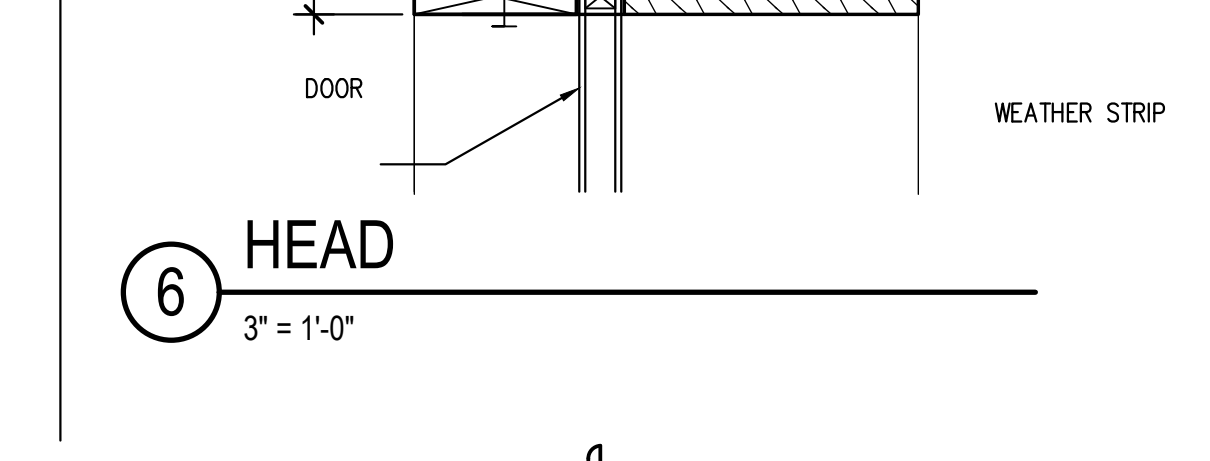
4 THRESHOLD
3" = 1'-0"



5 JAMB
3" = 1'-0"



6 HEAD
3" = 1'-0"

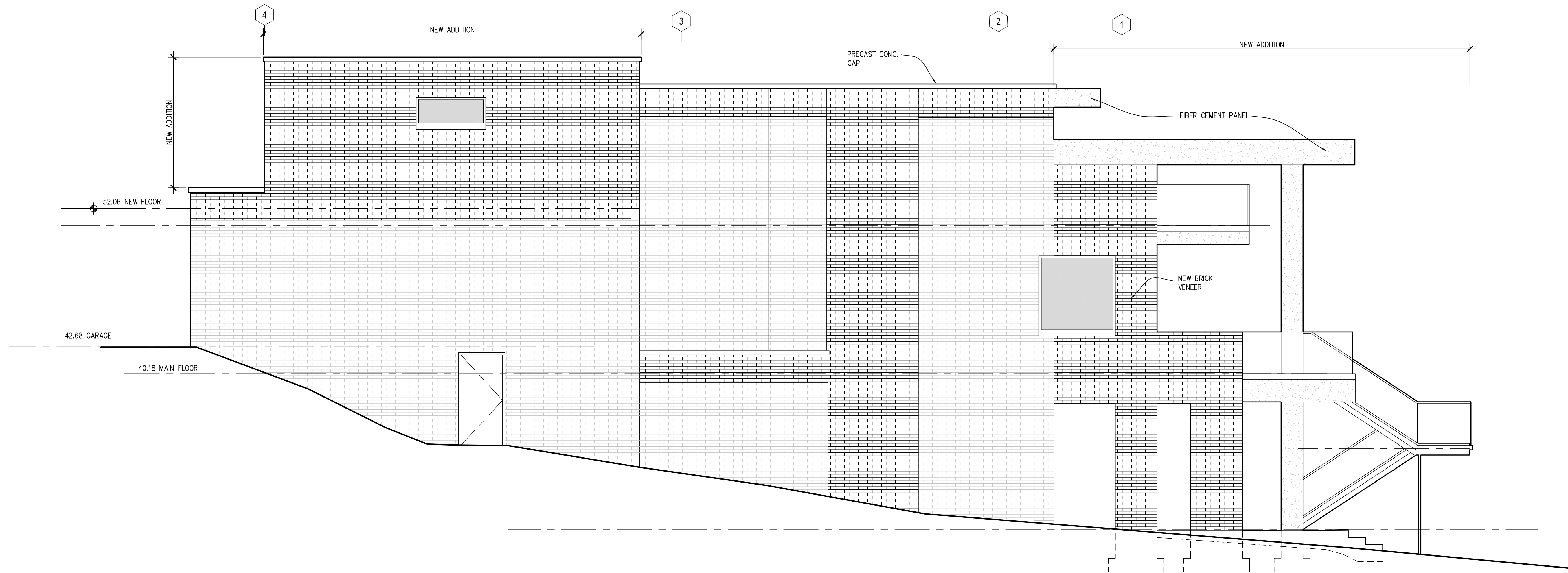


7 HEAD
3" = 1'-0"



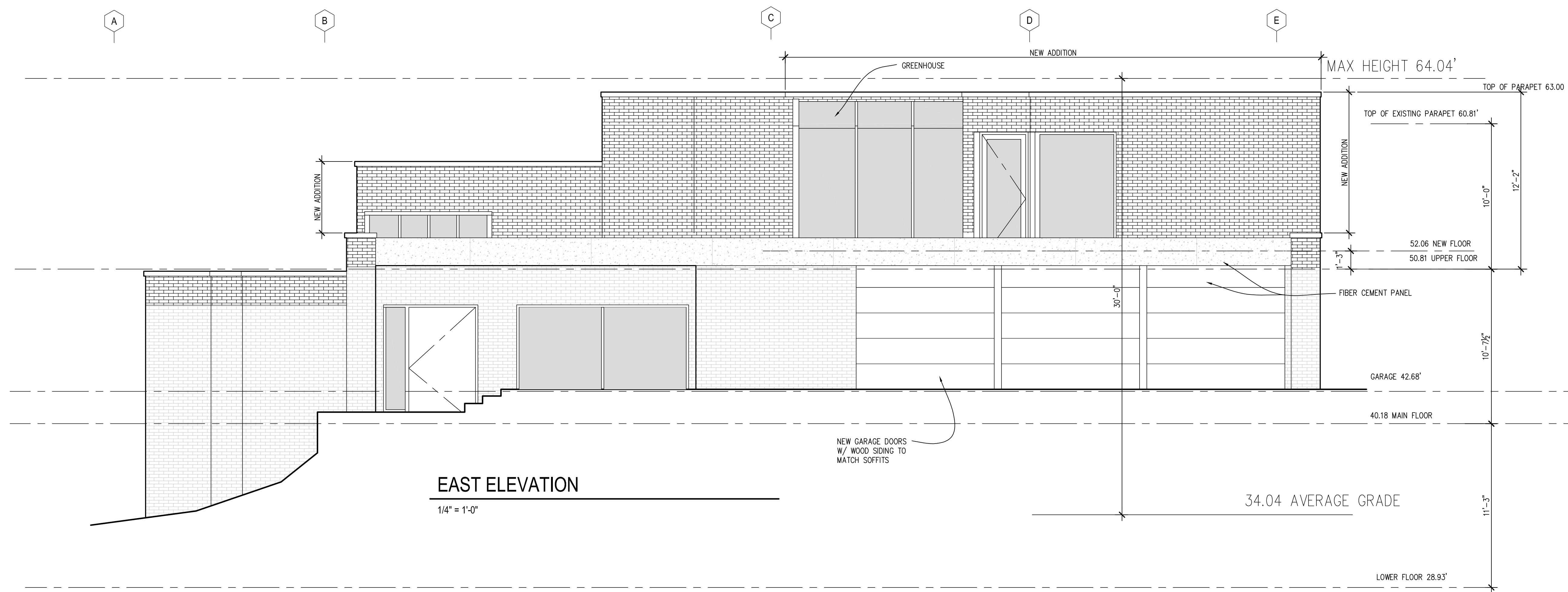
No. Date Revision

DETAILS



NORTH ELEVATION

1/4" = 1'-0"

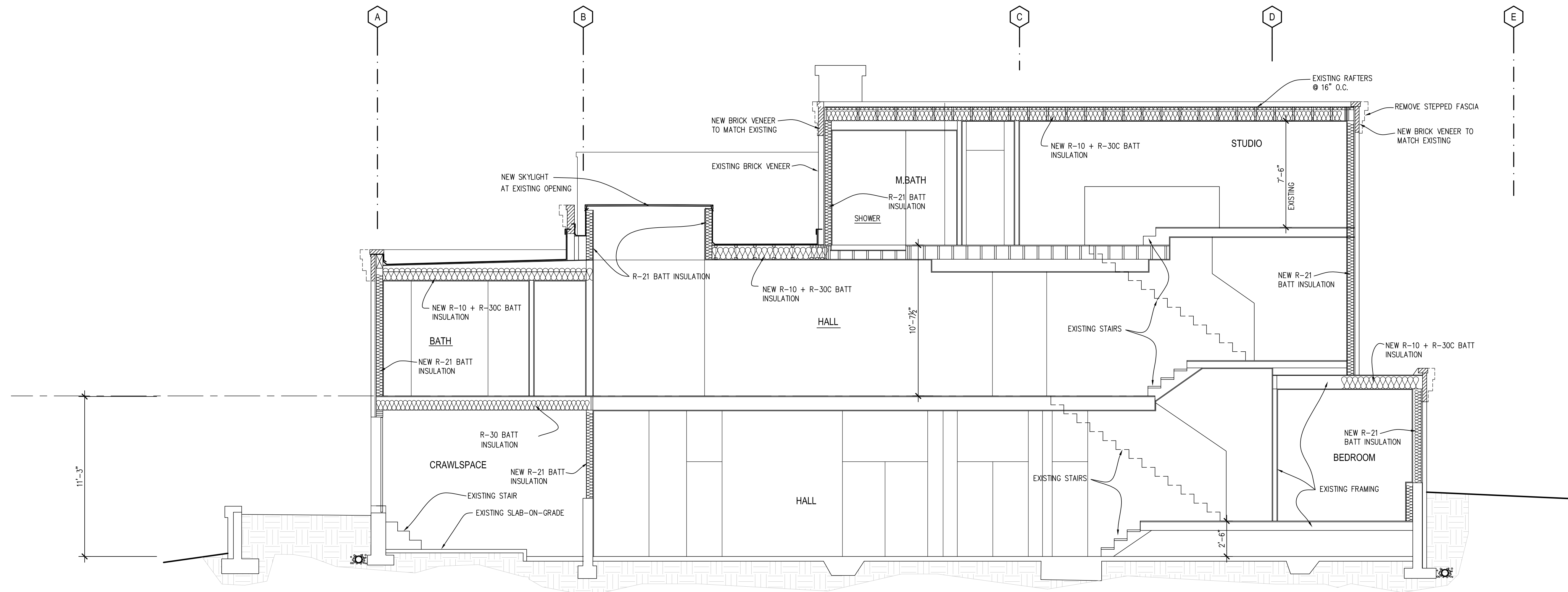


EAST ELEVATION

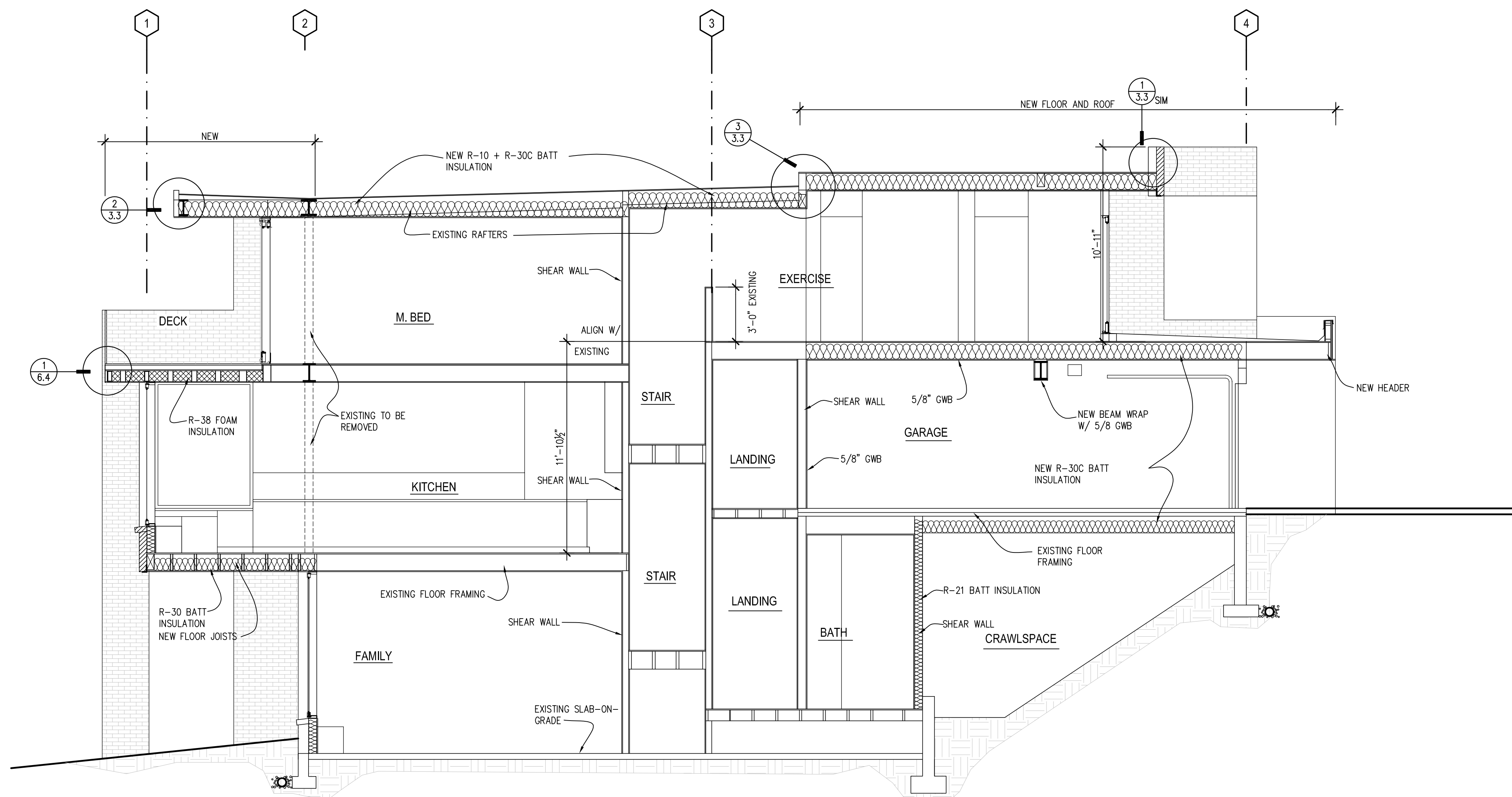
1/4" = 1'-0"



No. Date Revision



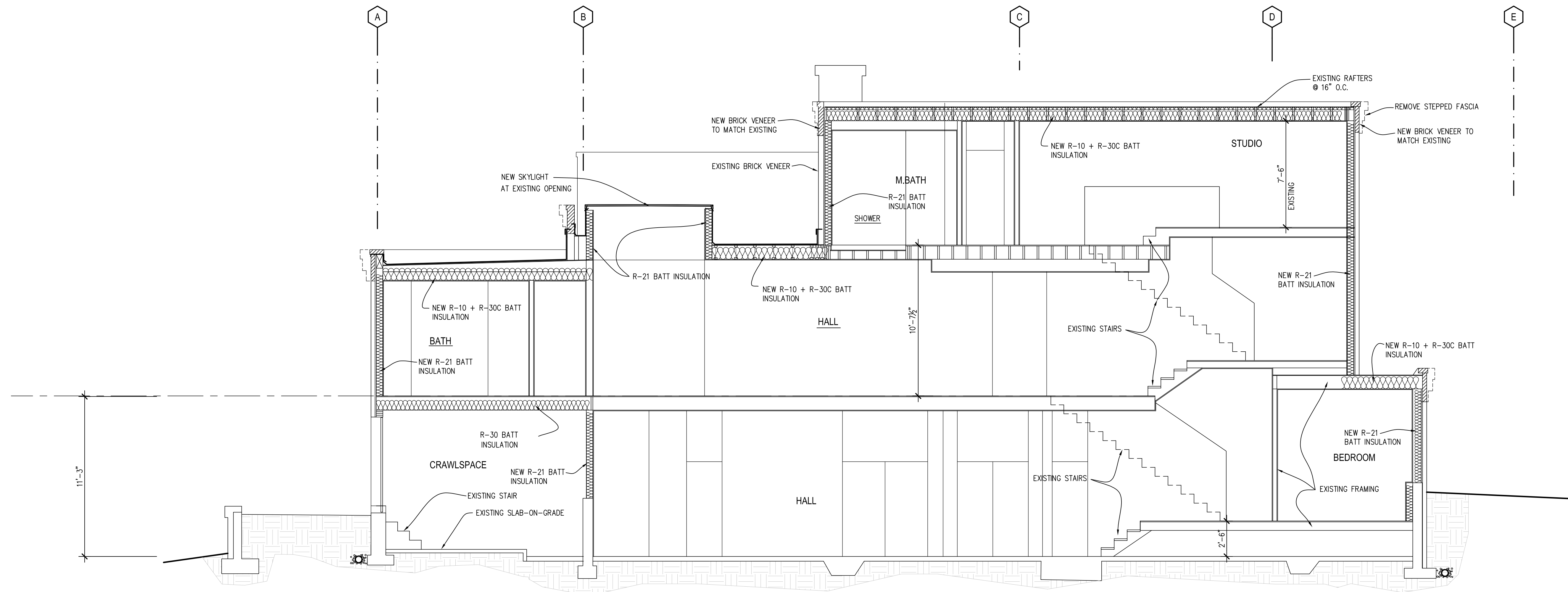
1 BUILDING SECTION
1/4" = 1'-0"



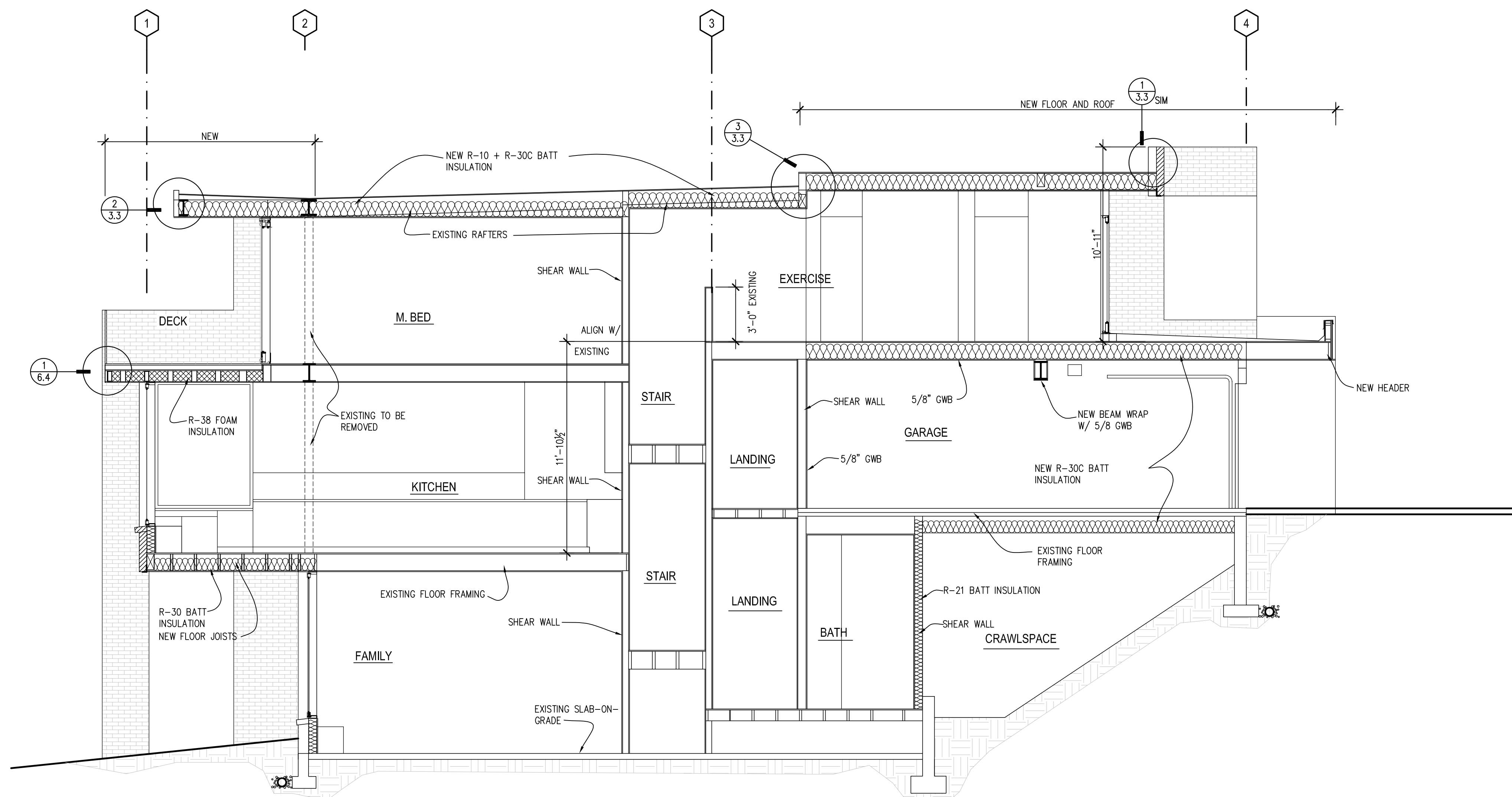
2 BUILDING SECTION
1/4" = 1'-0"



No. Date Revision



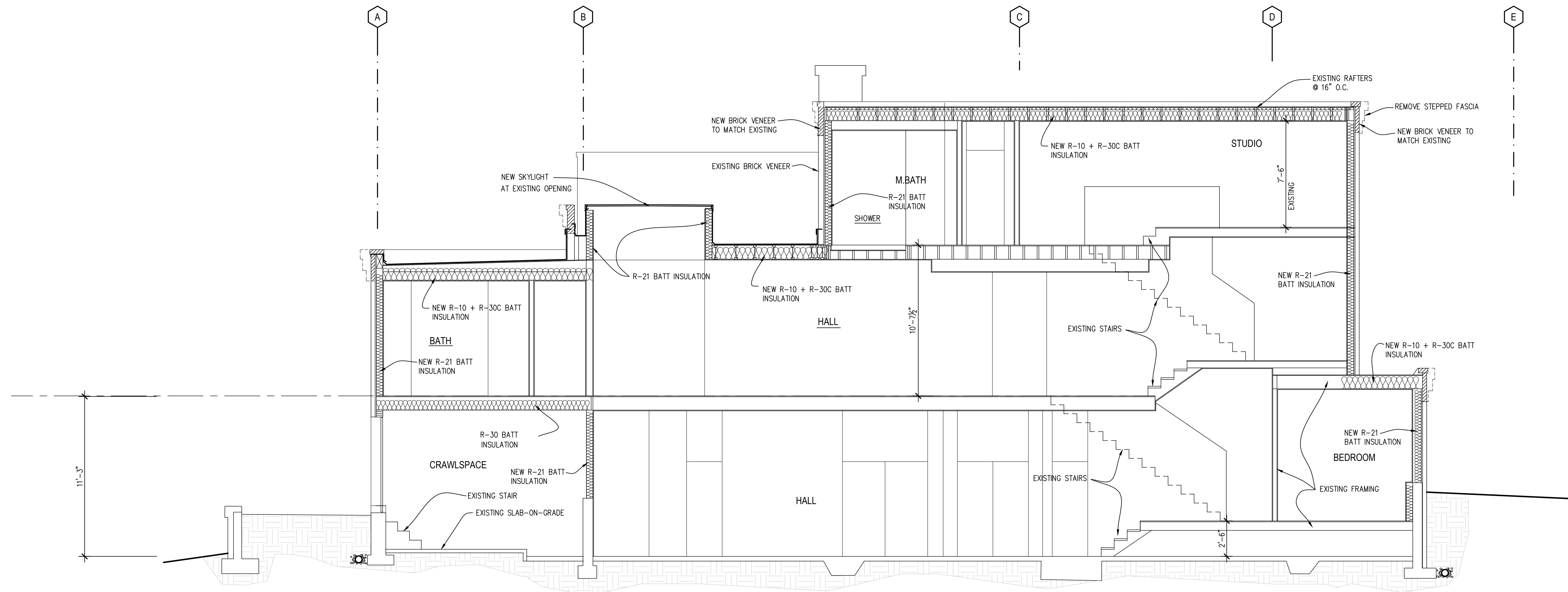
1 BUILDING SECTION
1/4" = 1'-0"



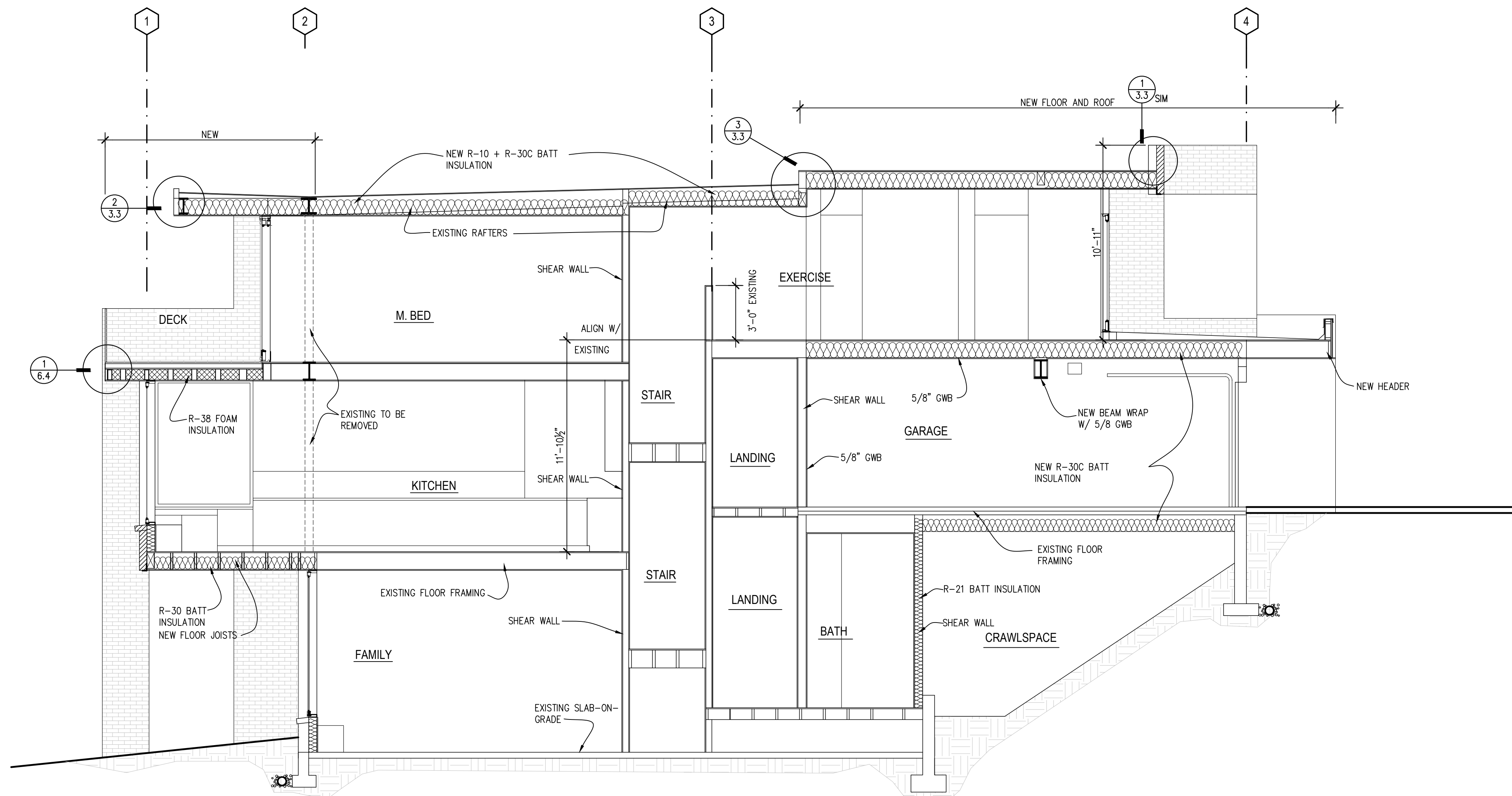
2 BUILDING SECTION
1/4" = 1'-0"



No. Date Revision



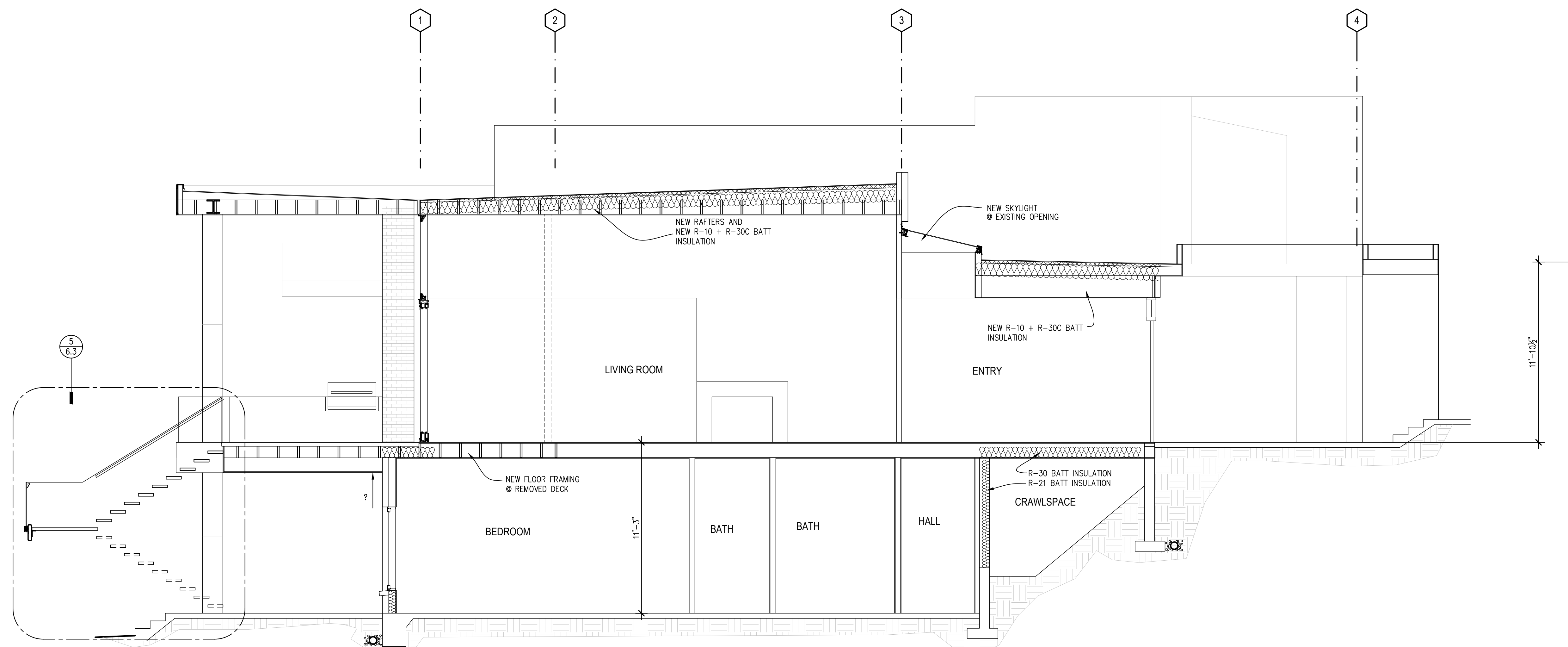
1 BUILDING SECTION
1/4" = 1'-0"



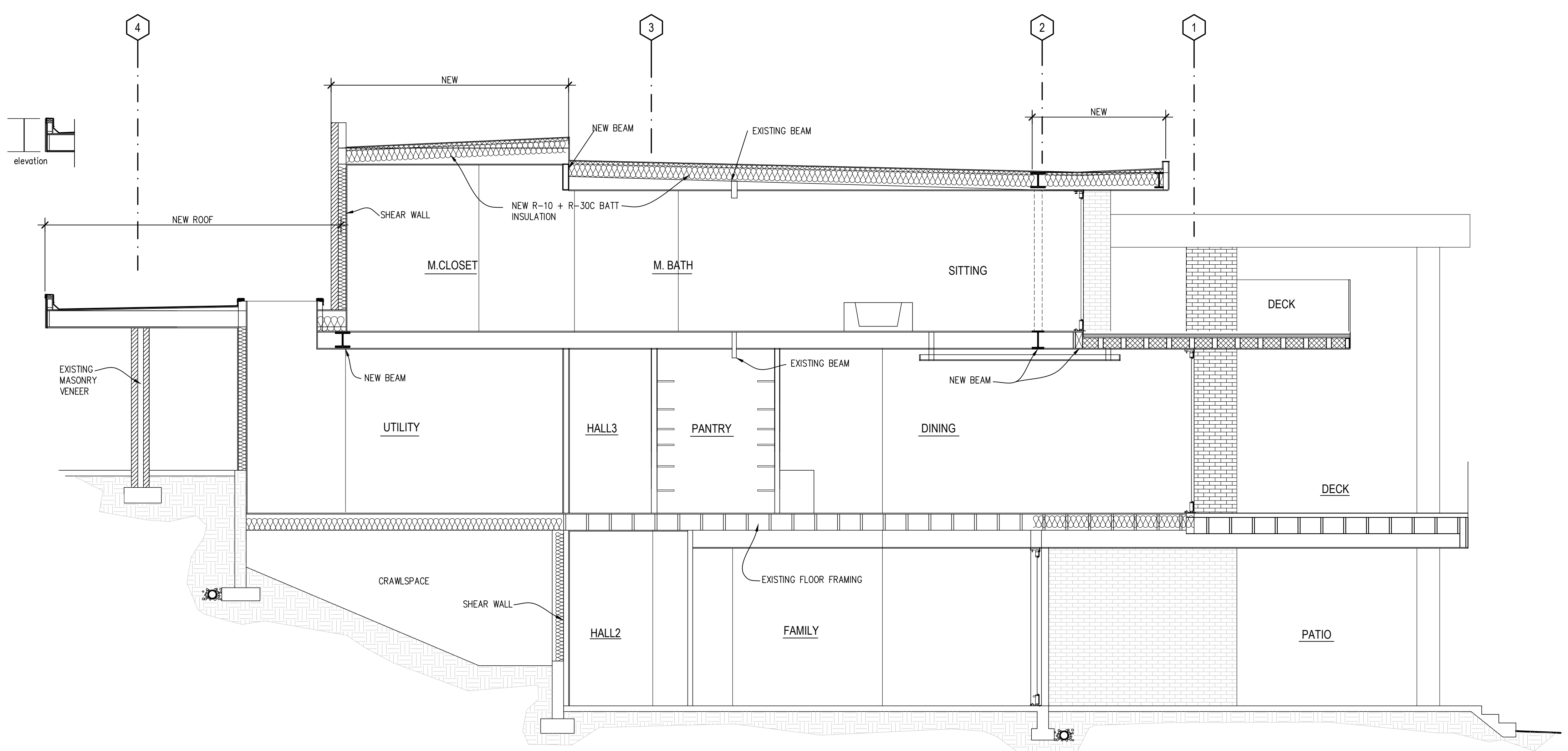
2 BUILDING SECTION
1/4" = 1'-0"



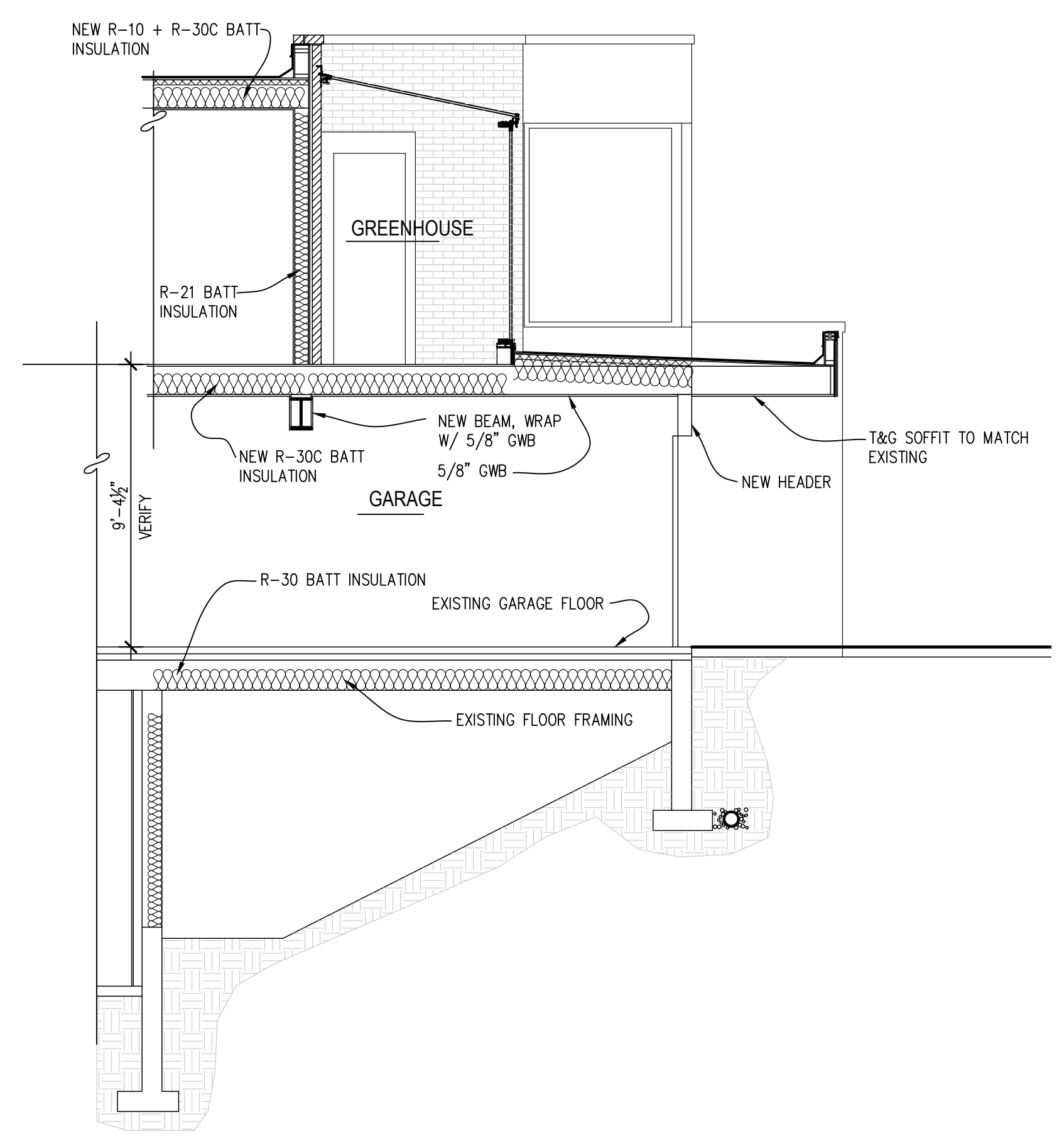
No. Date Revision



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



3 BUILDING SECTION
1/4" = 1'-0"

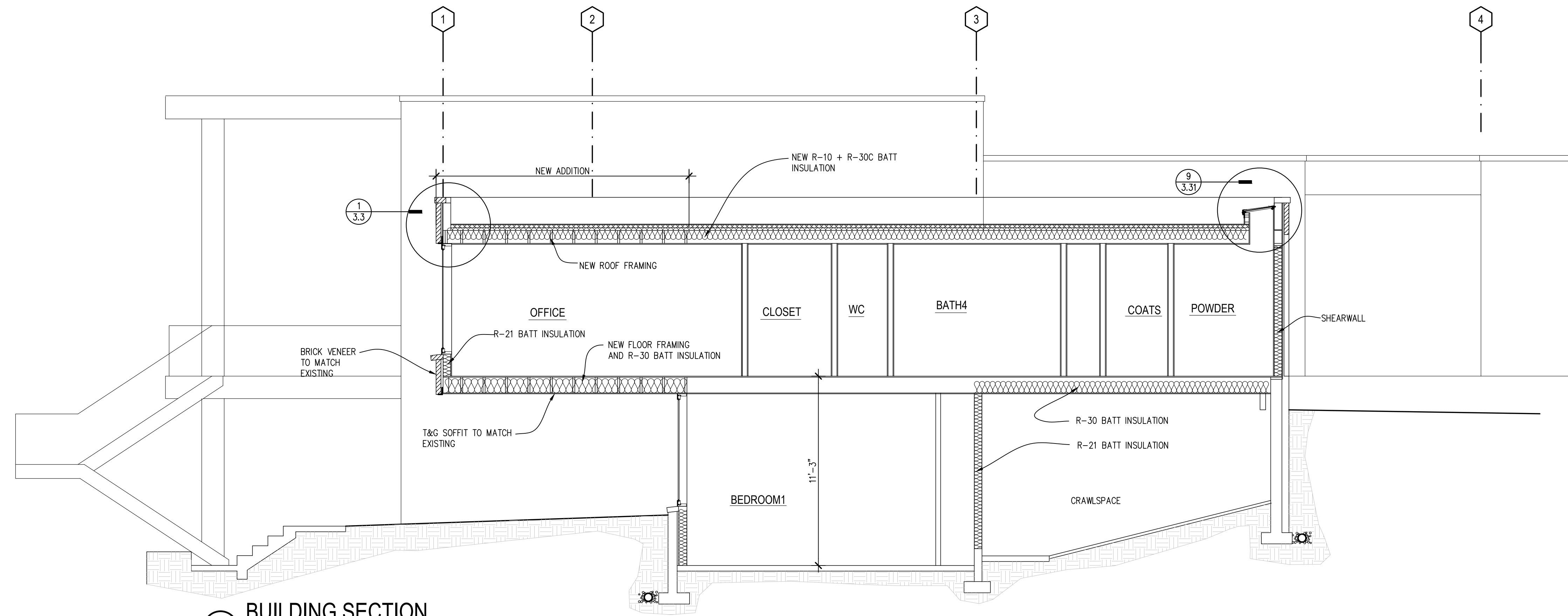


2 BUILDING SECTION
1/4" = 1'-0"

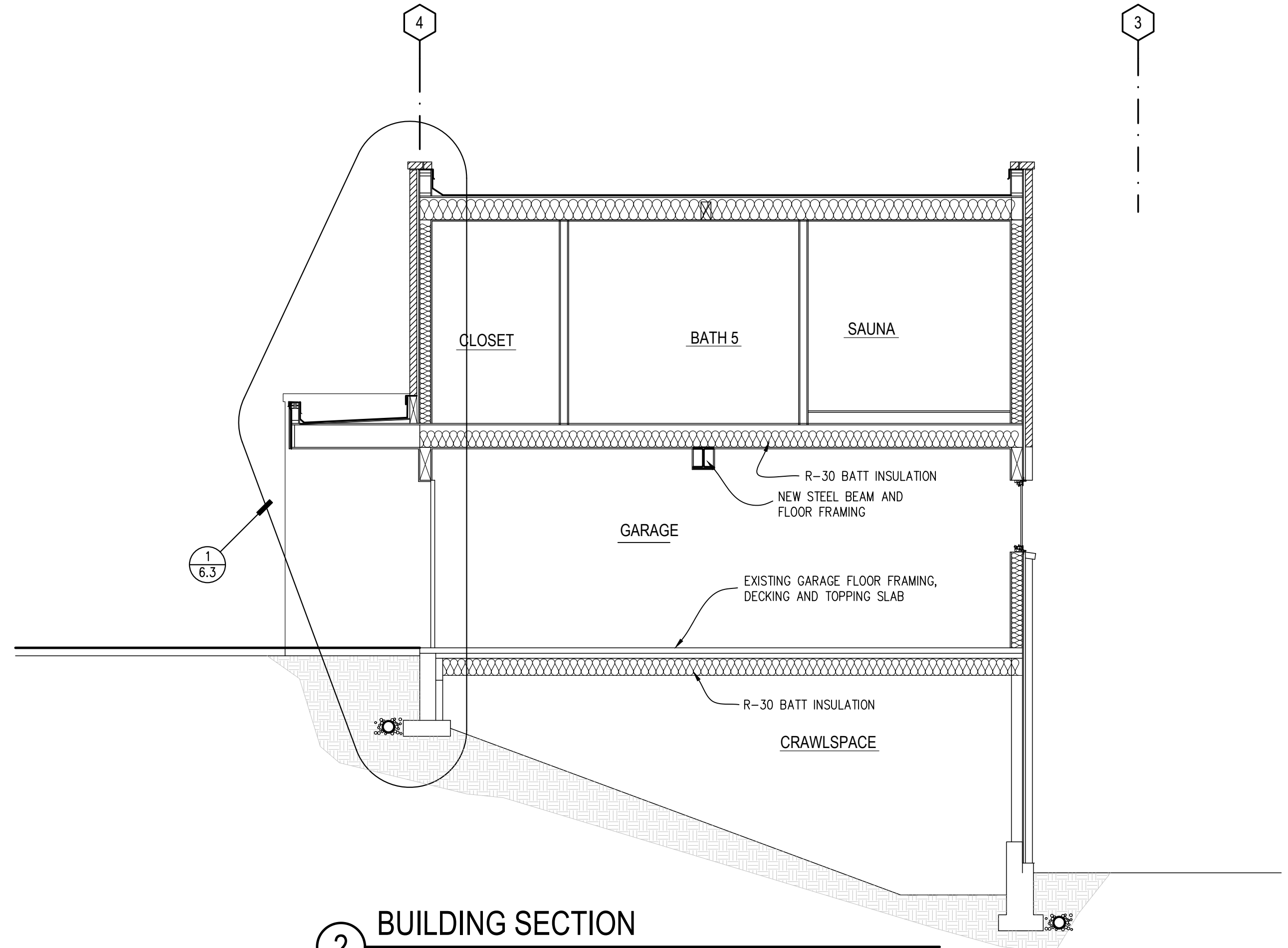


No.	Date	Revision

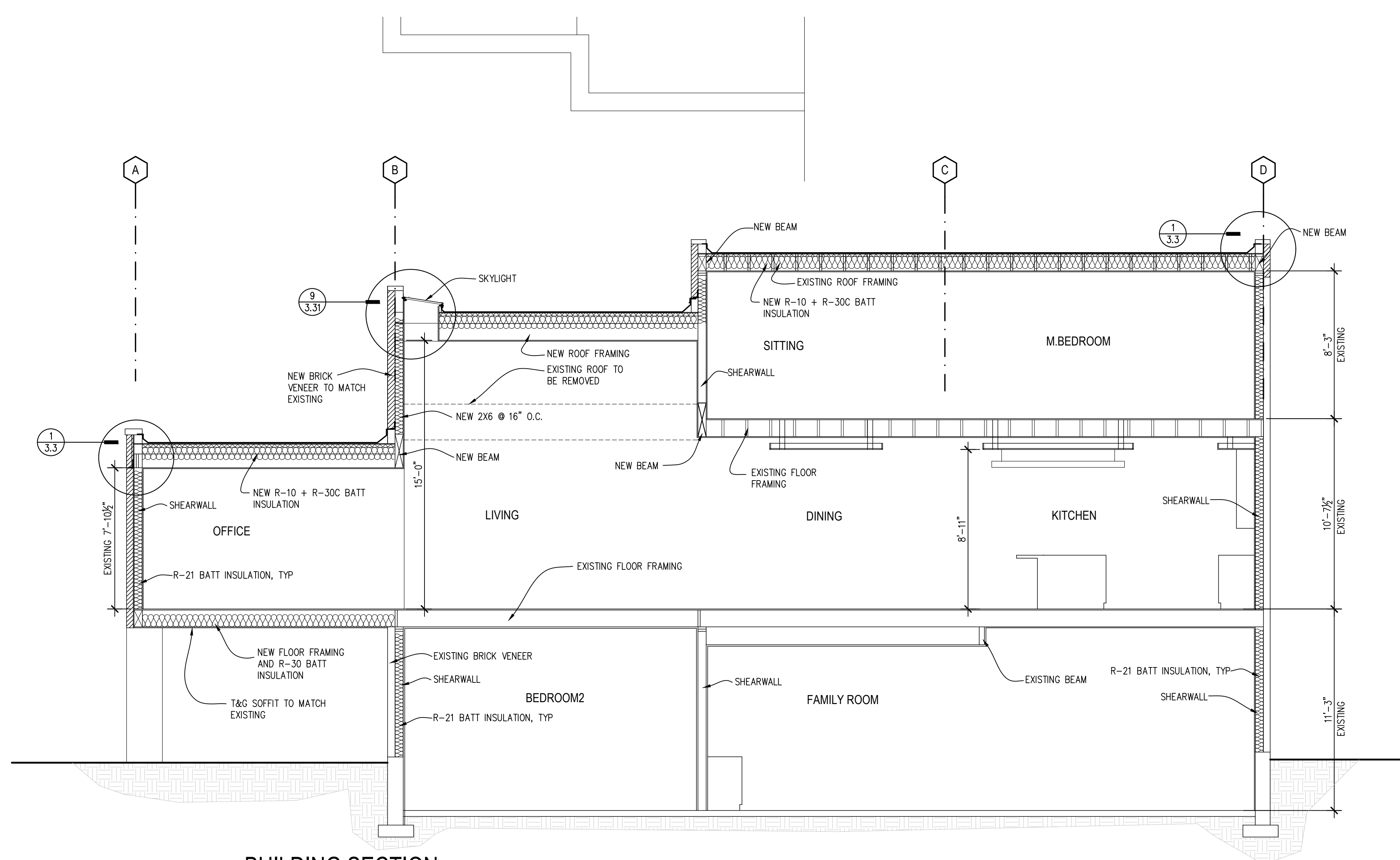
SECTION



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



2 BUILDING SECTION

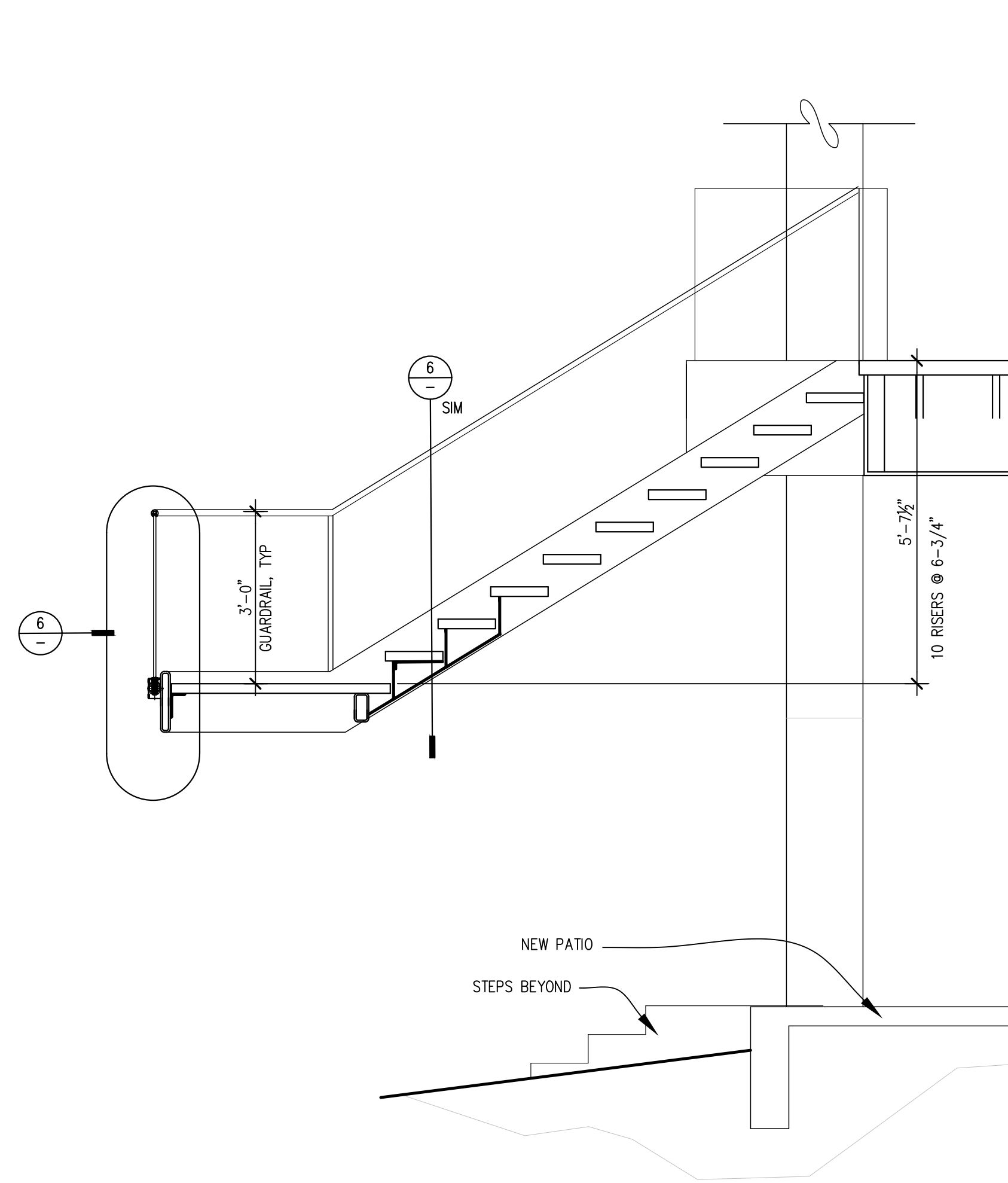


3 BUILDING SECTION
1/4" = 1'-0"

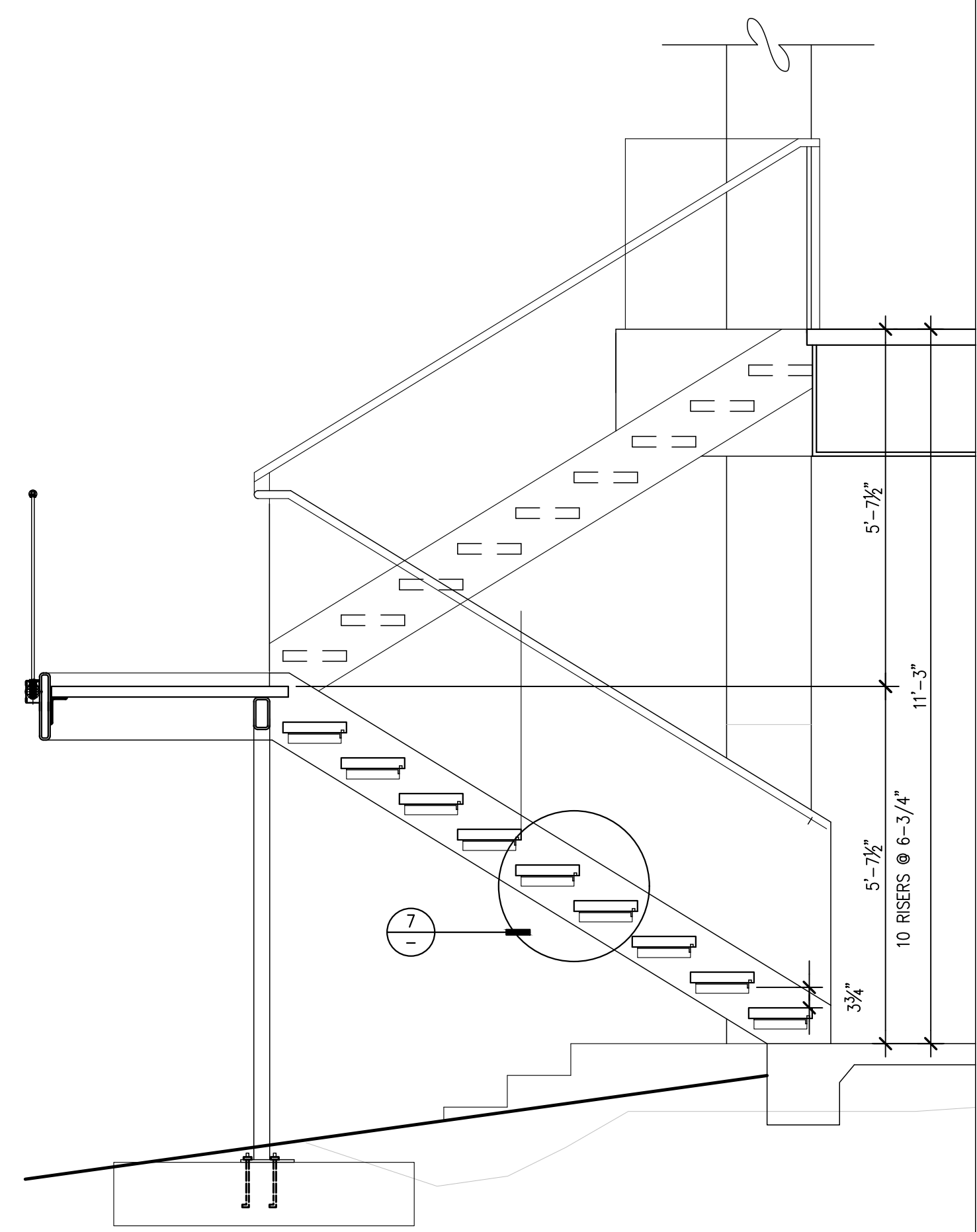


No.	Date	Revision

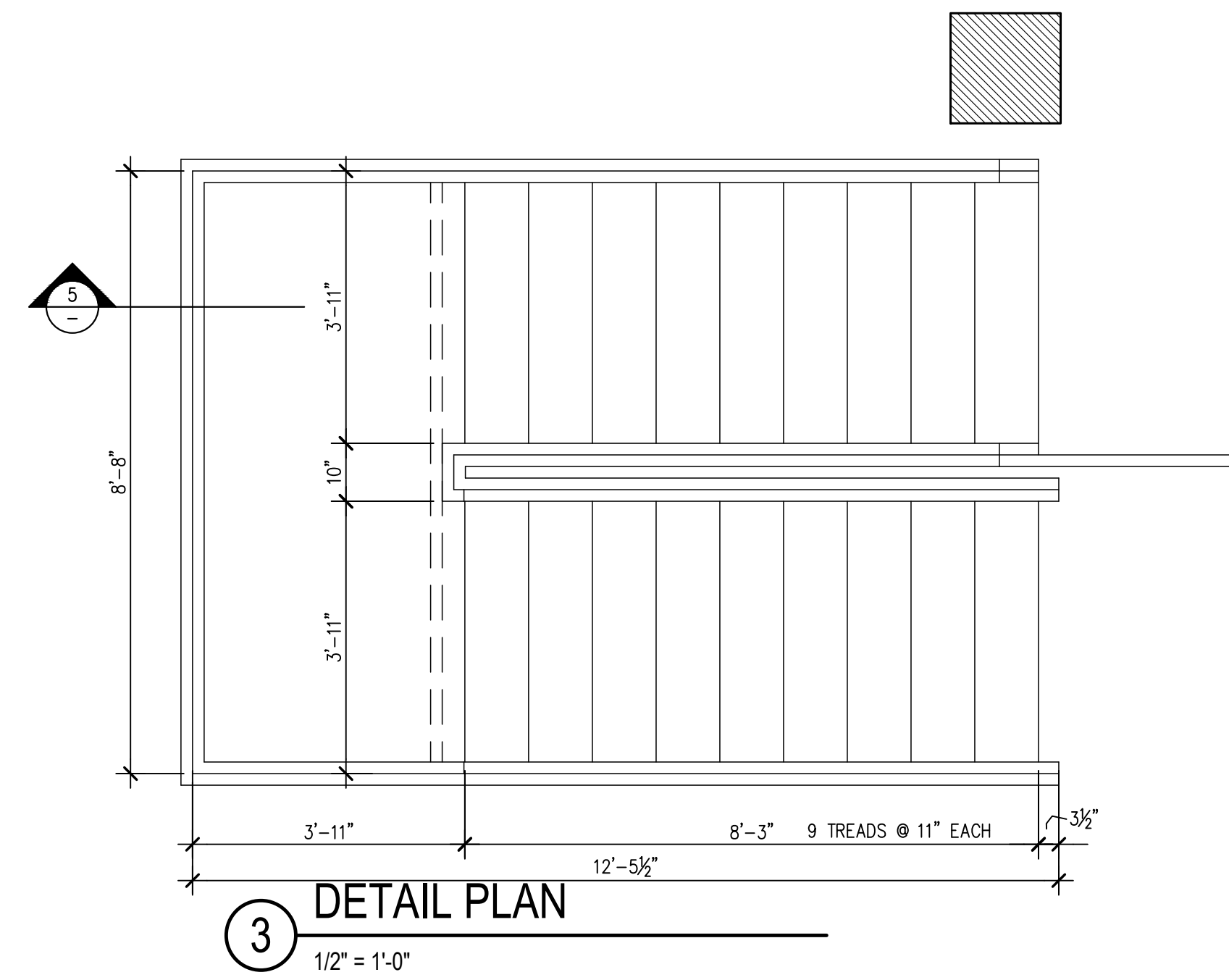
SECTION



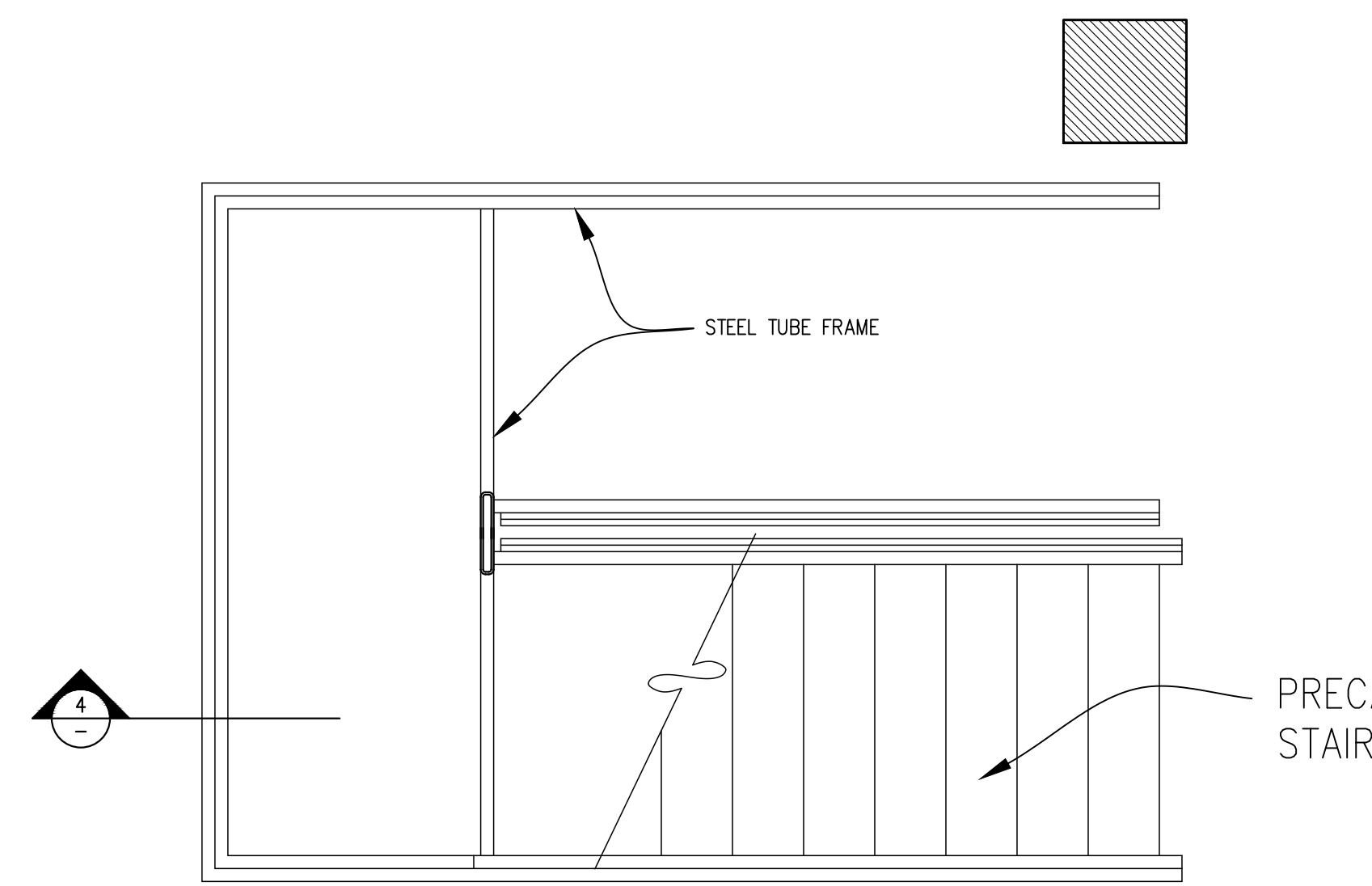
5 DETAIL PLAN
1/2" = 1'-0"



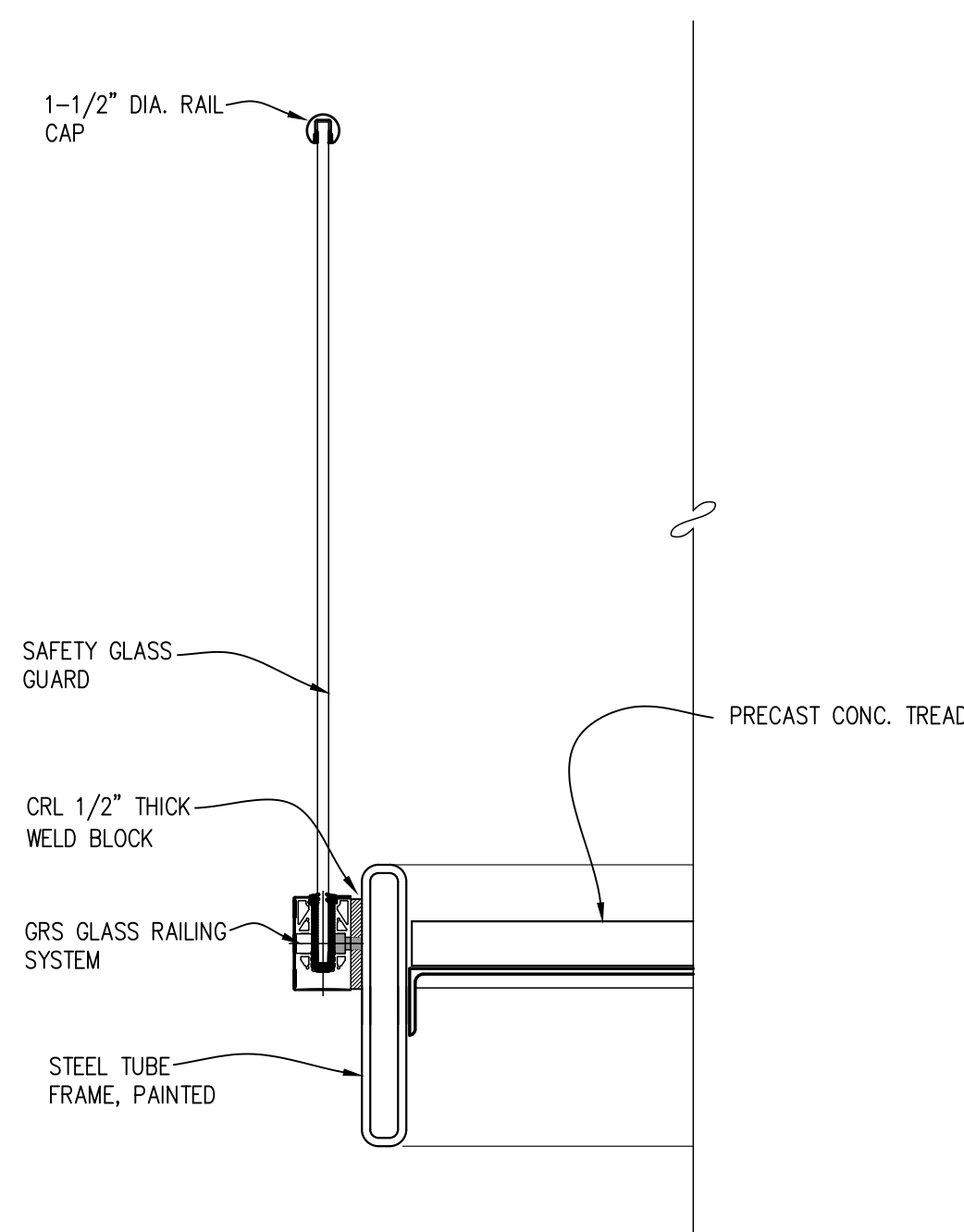
4 DETAIL PLAN
1/2" = 1'-0"



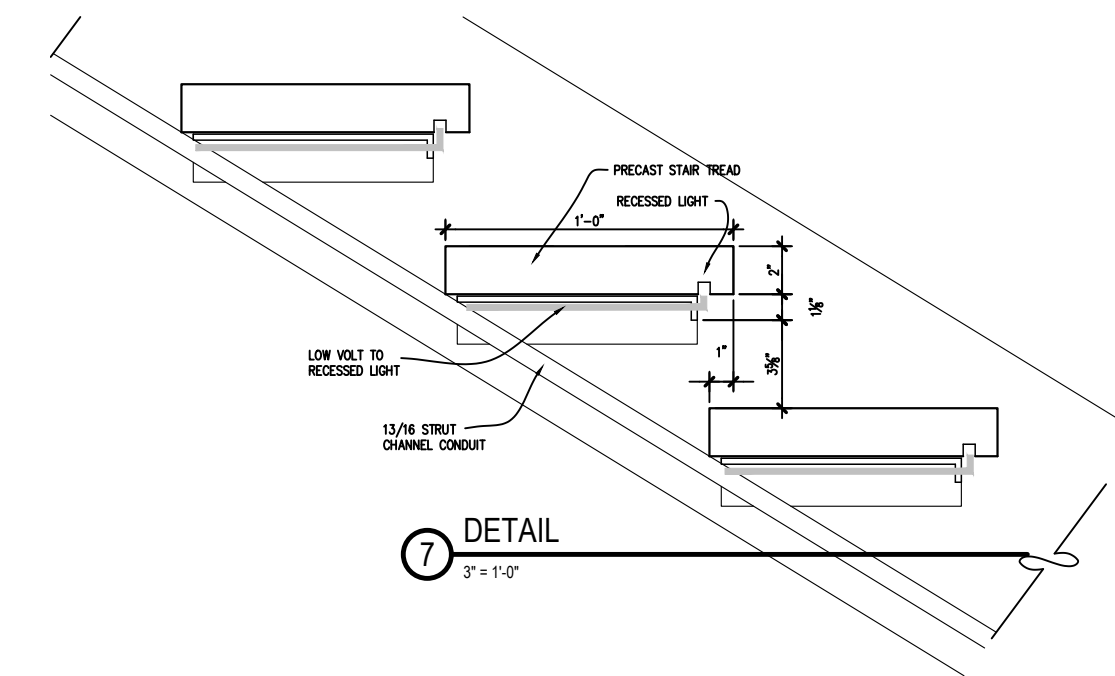
3 DETAIL PLAN
1/2" = 1'-0"



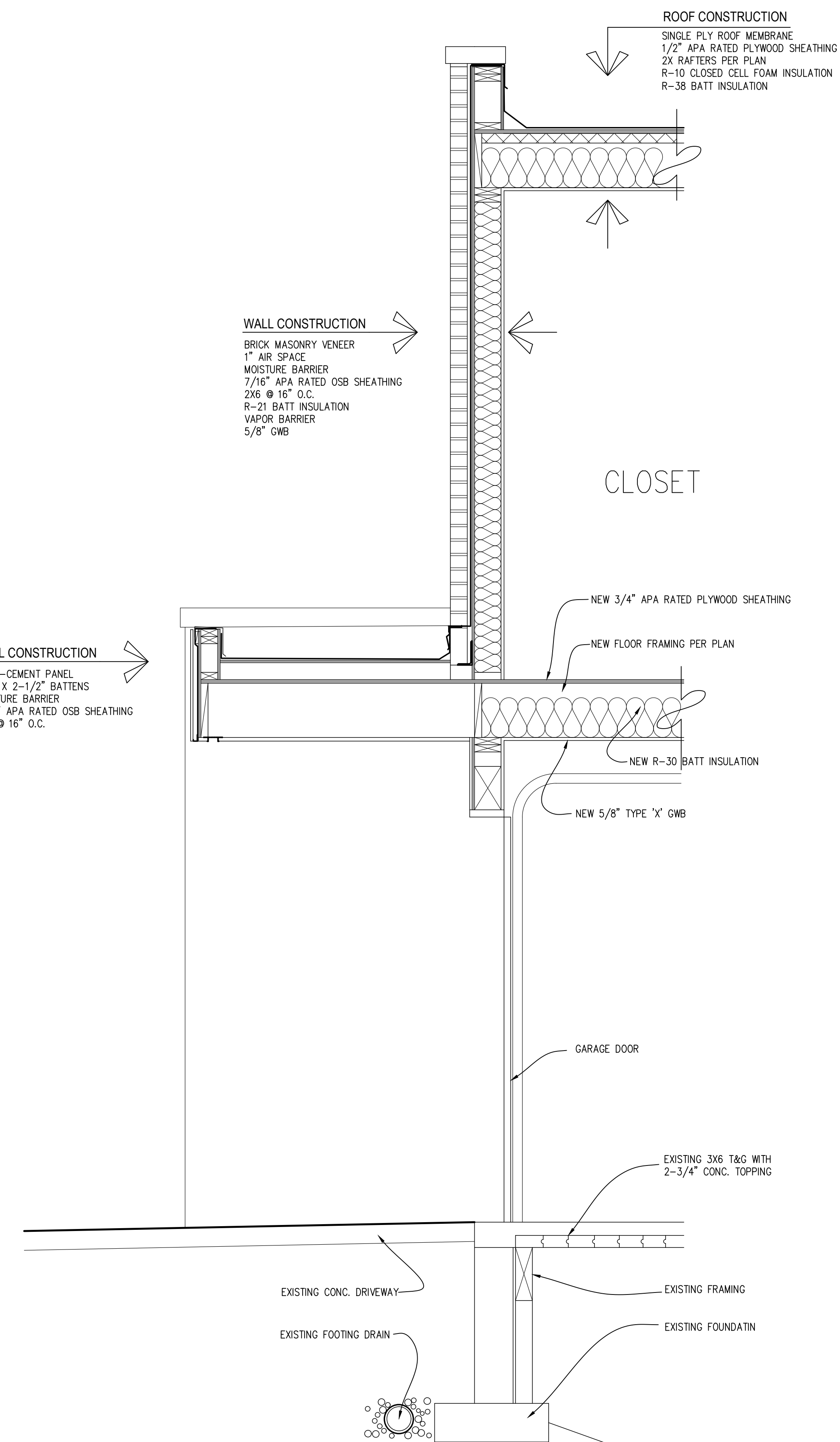
2 DETAIL PLAN
1/2" = 1'-0"



6 DETAIL
1-1/2" = 1'-0"



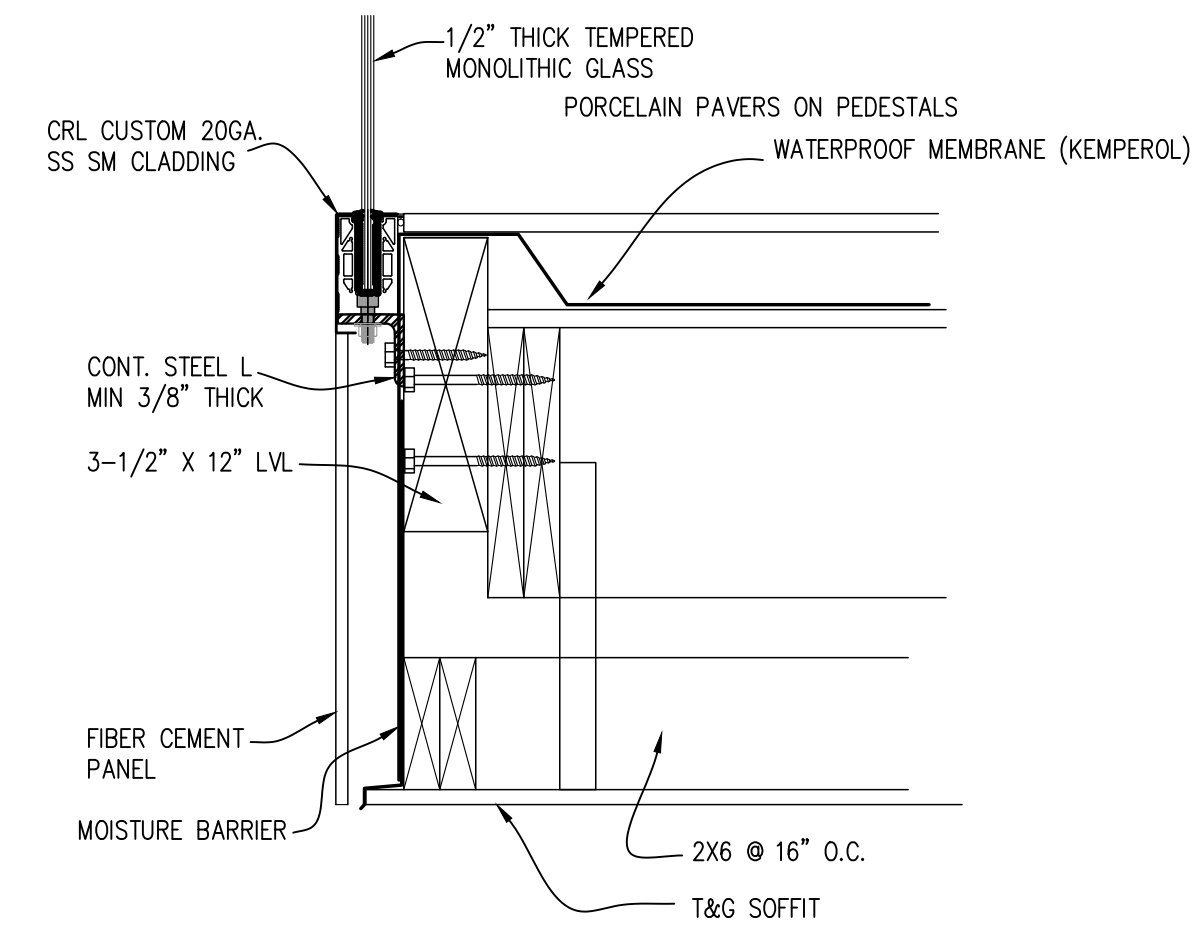
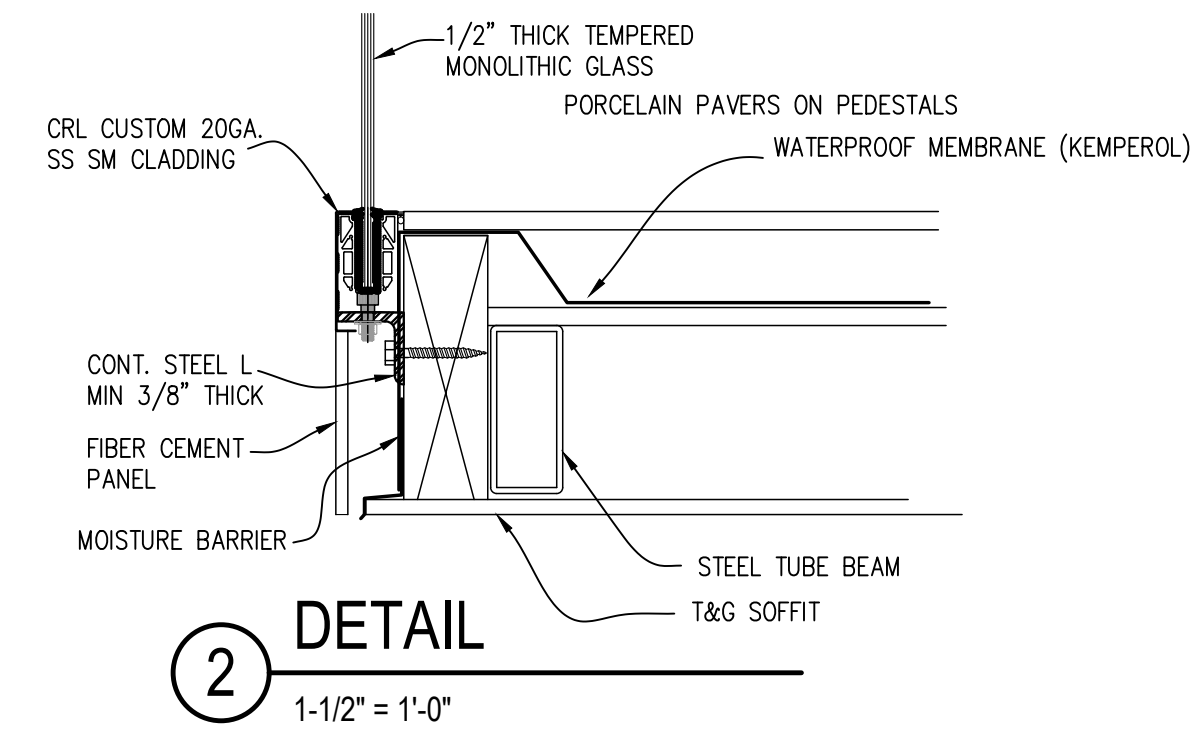
7 DETAIL
2" = 1'-0"



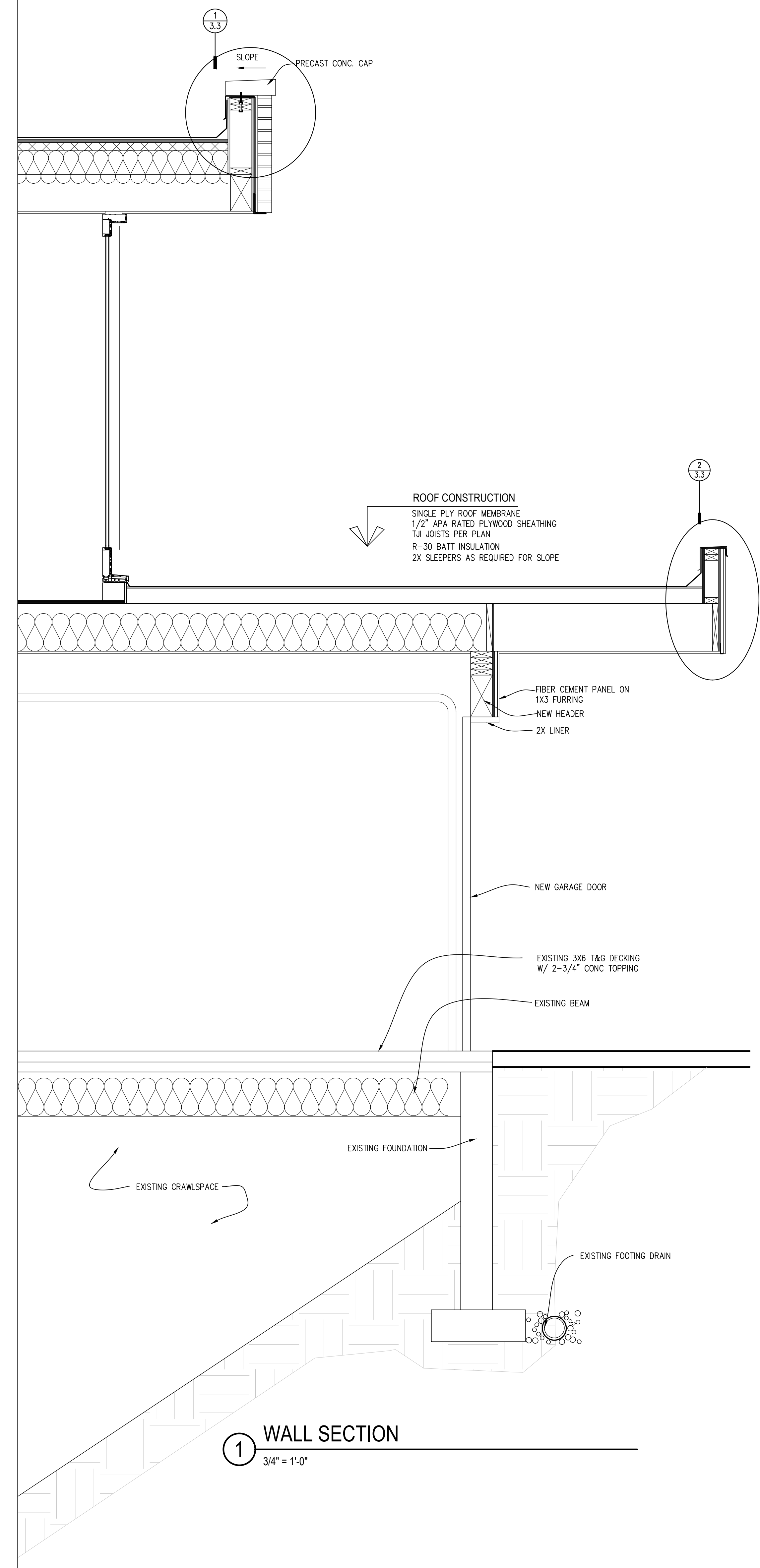
1 WALL SECTION
3/4" = 1'-0"



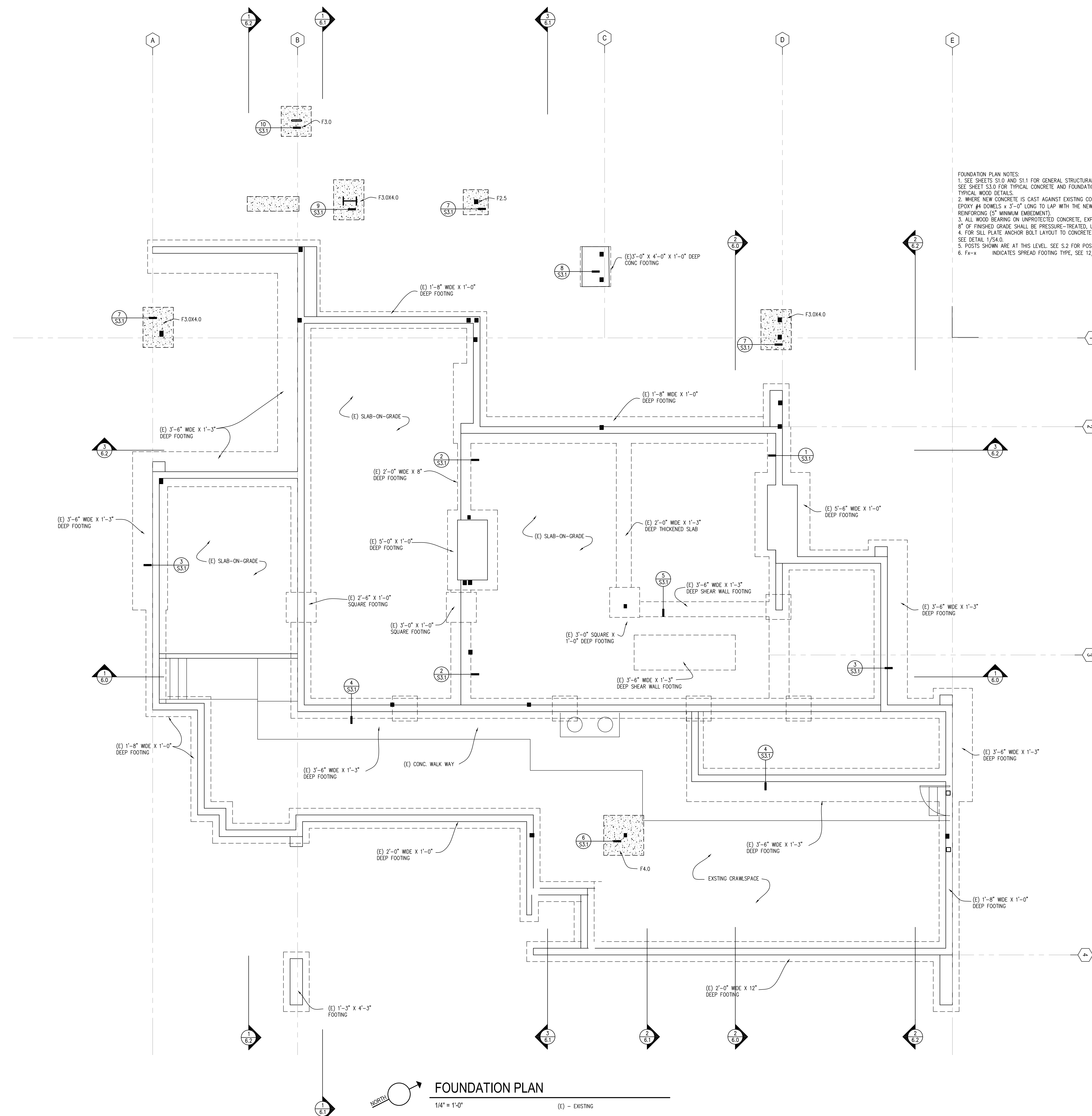
No.	Date	Revision



③
1-1/2" = 1'-0"



No.	Date	Revision

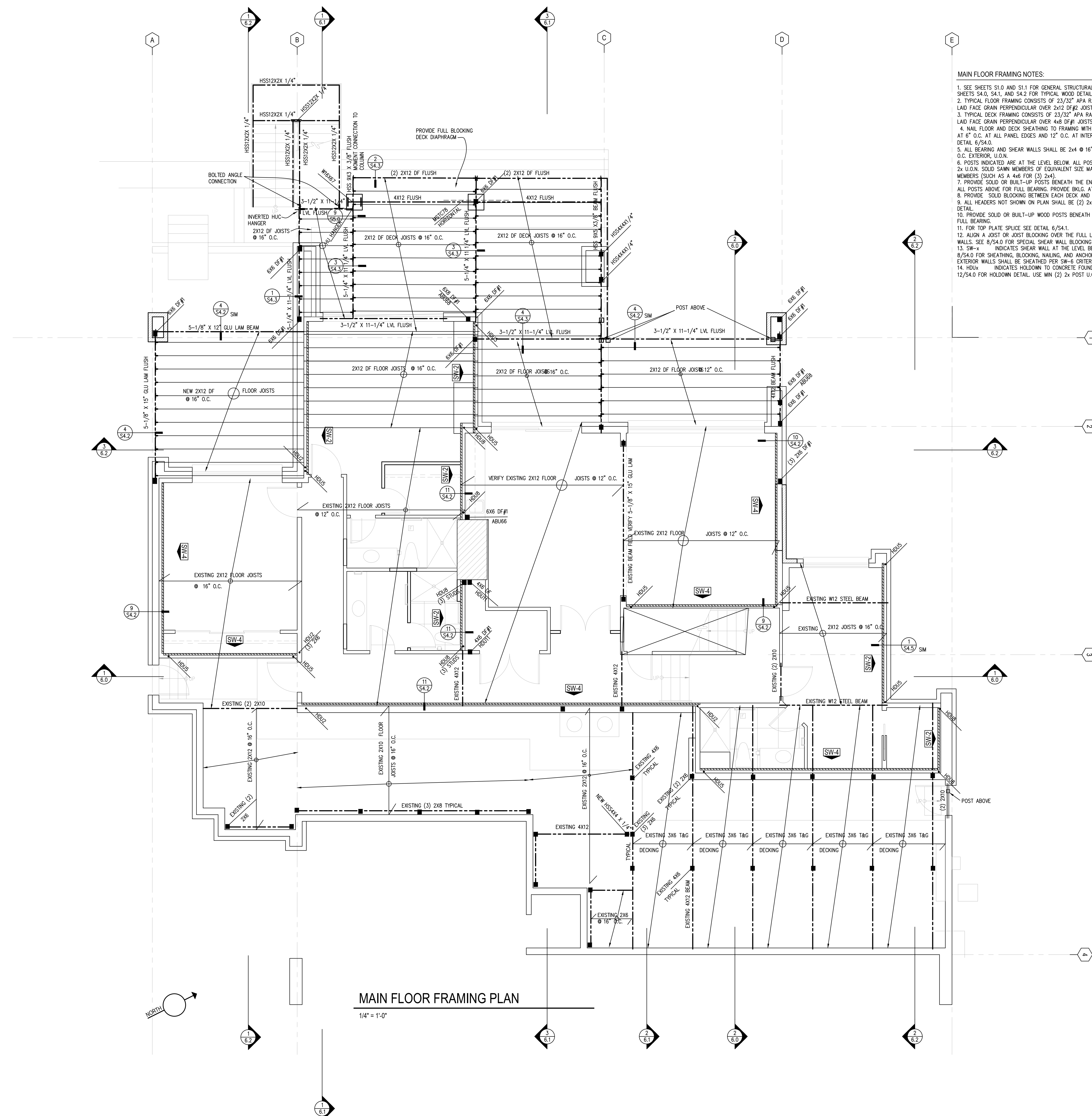


FOUNDATION PLAN NOTES:
 1. SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEET S3.0 FOR TYPICAL CONCRETE AND FOUNDATION DETAILS. SEE SHEET S4.0 FOR TYPICAL WOOD DETAILS.
 2. WHERE NEW CONCRETE IS CAST AGAINST EXISTING CONCRETE FOUNDATIONS, DRILL AND EPOXY #4 DOWELS X 3'-0" LONG TO LAP WITH THE NEW FOOTING LONGITUDINAL REINFORCING (5" MINIMUM EMBEDMENT).
 3. ALL WOOD BEARING ON UNPROTECTED CONCRETE, EXPOSED TO WEATHER, OR WITHIN 8" OF FINISHED GRADE SHALL BE PRESSURE-TREATED, U.O.N.
 4. FOR SILL PLATE ANCHOR BOLT LAYOUT TO CONCRETE FOUNDATION WALLS AND SLABS, SEE DETAIL 1/S4.0.
 5. POSTS SHOWN ARE AT THIS LEVEL. SEE S.2 FOR POST SIZES.
 6. Fx-x INDICATES SPREAD FOOTING TYPE, SEE 12/S3.0 FOR SCHEDULE.

FOUNDATION PLAN
 1/4" = 1'-0" (E) - EXISTING

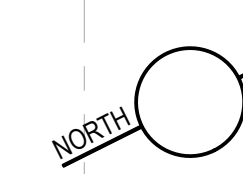


No.	Date	Revision



MAIN FLOOR FRAMING PLAN

1/4" = 1'-0"



- MAIN FLOOR FRAMING NOTES:
- SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEETS S4.0, S4.1, AND S4.2 FOR TYPICAL WOOD DETAILS.
 - TYPICAL FLOOR FRAMING CONSISTS OF 23/32" APA RATED SHEATHING (INDEX 48/24), LAID FACE GRAIN PERPENDICULAR OVER 2X12 DF#2 JOISTS @ 16" O.C., U.O.N.
 - TYPICAL BECK FRAMING CONSISTS OF 23/32" APA RATED SHEATHING (INDEX 48/24), LAID FACE GRAIN PERPENDICULAR OVER 4X8 DF#1 JOISTS @ 16" O.C., U.O.N.
 - NAIL FLOOR AND DECK SHEATHING TO FRAMING WITH 8d NAILS (0.131" Ø x 2.5" LONG) AT 6" O.C. AT ALL PANEL EDGES AND 12" O.C. AT INTERMEDIATE FRAMING MEMBERS. SEE DETAIL 6/54.0.
 - ALL BEARING AND SHEAR WALLS SHALL BE 2x4 @ 16" O.C. INTERIOR AND 2x6 @ 16" O.C. EXTERIOR, U.O.N.
 - POSTS INDICATED ARE AT THE LEVEL BELOW. ALL POSTS NOT SPECIFIED SHALL BE (2) 2x U.O.N. SOLID SAWN MEMBERS OF EQUIVALENT SIZE MAY BE SUBSTITUTED FOR BUILT-UP MEMBERS (SUCH AS A 4x6 FOR (3) 2x4).
 - PROVIDE SOLID OR BUILT-UP POSTS BENEATH THE ENDS OF ALL FLOOR BEAMS AND ALL POSTS ABOVE FOR FULL BEARING. PROVIDE ENLG. AT JOISTS PER DETAIL 7/54.1.
 - PROVIDE SOLID BLOCKING BETWEEN EACH BECK AND FLOOR JOIST AT SUPPORTS.
 - ALL HEADERS NOT SHOWN ON PLAN SHALL BE (2) 2x10. SEE 10/54.1 FOR HEADER DETAIL.
 - PROVIDE SOLID OR BUILT-UP WOOD POSTS BENEATH THE ENDS OF ALL BEAMS FOR FULL BEARING.
 - FOR TOP PLATE SPLICE SEE DETAIL 6/54.1.
 - ALIGN A JOIST OR JOIST BLOCKING OVER THE FULL LENGTH OF ALL BEARING/SHEAR WALLS. SEE 8/54.0 FOR SPECIAL SHEAR WALL REQUIREMENTS.
 - INDICATES SHEAR WALL AT THE LEVEL BELOW. SEE SHEAR WALL SCHEDULE.
 - 8/54.0 FOR SHEATHING, BLOCKING, NAILING, AND ANCHOR BOLT REQUIREMENTS. ALL EXTERIOR WALLS SHALL BE SHEATHED PER SW-6 CRITERIA, U.O.N.
 - INDICATES HOLDDOWN TO CONCRETE FOUNDATION WALLS OR FOOTINGS. SEE 12/54.0 FOR HOLDDOWN DETAIL. USE MIN (2) 2x POST U.O.N.

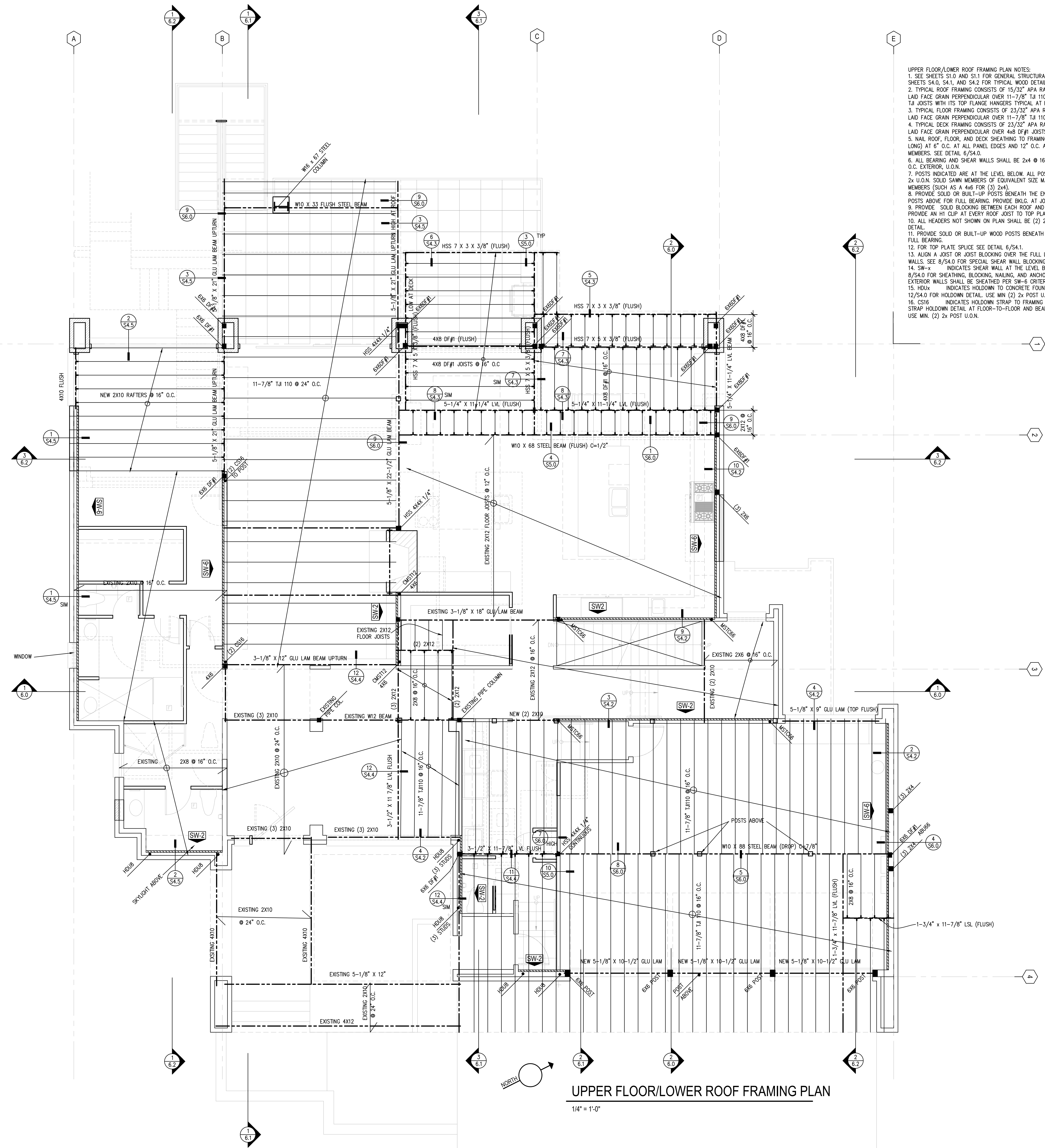


No. Date Revision



MAIN FLOOR FRAMING PLAN

Sheet No. **S.2**
 Project No. 2222
 Date: 6/7/23

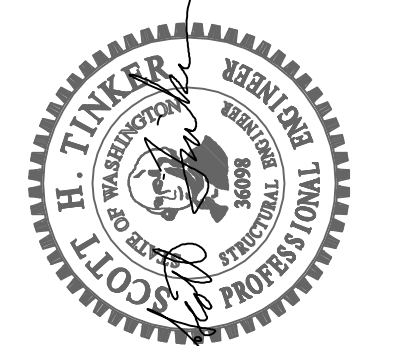


- UPPER FLOOR/LOWER ROOF FRAMING PLAN NOTES.
- SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEETS S4.0, S4.1, AND S4.2 FOR TYPICAL WOOD DETAILS.
 - TYPICAL ROOF FRAMING CONSISTS OF 15/32" APA RATED SHEATHING (INDEX 32/12), LAID FACE GRAIN PERPENDICULAR OVER 11-7/8" TJI 110 JOISTS @ 24" O.C., U.O.N. HANG TJI JOISTS WITH ITS TOP FLANGE HANGERS TYPICAL AT FLUSH BEAMS, U.O.N.
 - TYPICAL FLOOR FRAMING CONSISTS OF 23/32" APA RATED SHEATHING (INDEX 48/24), LAID FACE GRAIN PERPENDICULAR OVER 11-7/8" TJI 110 JOISTS @ 16" O.C., U.O.N.
 - TYPICAL DECK FRAMING CONSISTS OF 23/32" APA RATED SHEATHING (INDEX 48/24), LAID FACE GRAIN PERPENDICULAR OVER 4x8 DF#1 JOISTS @ 16" O.C., U.O.N.
 - NAIL ROOF, FLOOR, AND DECK SHEATHING TO FRAMING WITH 8d NAILS (0.131" Ø x 2.5" LONG) AT 6" O.C. AT ALL PANEL EDGES AND 12" O.C. AT INTERMEDIATE FRAMING MEMBERS. SEE DETAIL 6/54.0.
 - ALL BEARING AND SHEAR WALLS SHALL BE 2x4 @ 16" O.C. INTERIOR AND 2x6 @ 16" O.C. EXTERIOR, U.O.N.
 - POSTS INDICATED ARE AT THE LEVEL BELOW. ALL POSTS NOT SPECIFIED SHALL BE (2) 2x U.O.N. SOLID SAWN MEMBERS OF EQUIVALENT SIZE MAY BE SUBSTITUTED FOR BUILT-UP MEMBERS (SUCH AS A 4x6 FOR (3) 2x4).
 - PROVIDE SOLID OR BUILT-UP POSTS BENEATH THE ENDS OF ALL FLOOR BEAMS AND ALL JOISTS ABOVE FOR FULL BEARING. PROVIDE BKLG. AT JOISTS PER DETAIL 7/54.1.
 - PROVIDE SOLID BLOCKING BETWEEN EACH ROOF AND FLOOR JOIST AT SUPPORTS. PROVIDE AN H1 CLIP AT EVERY ROOF JOIST TO TOP PLATE.
 - ALL HEADERS NOT SHOWN ON PLAN SHALL BE (2) 2x10. SEE 10/54.1 FOR HEADER DETAIL.
 - PROVIDE SOLID OR BUILT-UP WOOD POSTS BENEATH THE ENDS OF ALL BEAMS FOR FULL BEARING.
 - FOR TOP PLATE SPLICE SEE DETAIL 6/54.1.
 - ALIGN A JOIST OR JOIST BLOCKING OVER THE FULL LENGTH OF ALL BEARING/SHEAR WALLS. SEE 8/54.0 FOR SPECIAL SHEAR WALL BLOCKING REQUIREMENTS.
 - SW-x INDICATES SHEAR WALL AT THE LEVEL BELOW. SEE SHEAR WALL SCHEDULE 8/54.0 FOR SHEATHING, BLOCKING, NAILING, AND ANCHOR BOLT REQUIREMENTS. ALL EXTERIOR WALLS SHALL BE SHEATHED PER SW-6 CRITERIA, U.O.N.
 - HDXx INDICATES HOLDDOWN WALLS TO CONCRETE FOUNDATION WALLS OR FOOTINGS. SEE 12/54.0 FOR HOLDDOWN DETAIL. USE MIN (2) 2x POST U.O.N.
 - CS16 INDICATES HOLDOWN STRAP TO FRAMING BELOW WALL. SEE 10/54.0 FOR STRAP HOLDOWN DETAIL AT FLOOR-TO-FLOOR AND BEAM SUPPORTING SHEAR WALL END. USE MIN. (2) 2x POST U.O.N.

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



No. Date Revision



UPPER FLOOR
FRAMING PLAN

FOUNDATION NOTES:

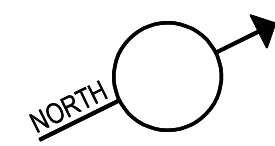
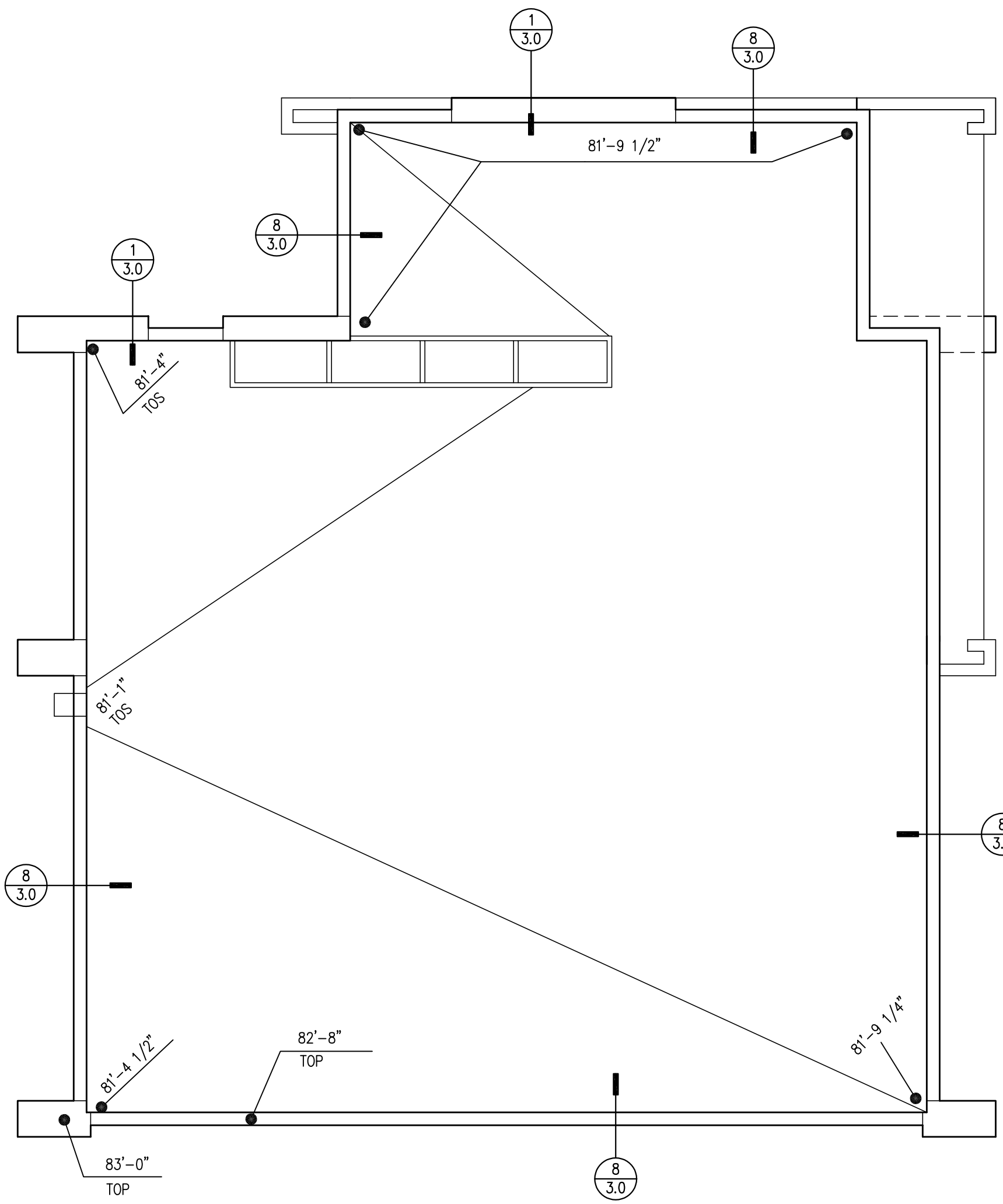
- SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEET S3.0 FOR TYPICAL CONCRETE AND FOUNDATION DETAILS. SEE SHEET S4.0 FOR TYPICAL WOOD DETAILS.
- ALL WOOD BEARING ON UNPROTECTED CONCRETE, EXPOSED TO WEATHER, OR WITHIN 8" OF FINISHED GRADE SHALL BE PRESSURE-TREATED, U.O.N.
- FOR SILL PLATE ANCHOR BOLT LAYOUT TO CONCRETE FOUNDATION WALLS AND SLABS, SEE DETAIL 1/S4.0.
- HDM INDICATES HOLDDOWN TO CONCRETE FOUNDATION WALLS OR FOOTINGS. SEE 12/S4.0 FOR HOLDDOWN DETAIL. USE MIN. (2) 2x POST U.O.N.

ROOF FRAMING NOTES:

- SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEETS S4.0, S4.1 AND S4.5 FOR TYPICAL WOOD DETAILS.
- TYPICAL ROOF JOIST SHALL BE 11 7/8" TJI @ 24" O.C., U.O.N. HANG JOISTS WITH IUS HANGERS TYPICAL AT FLUSH BEAMS, U.O.N.
- NAIL ROOF SHEATHING TO FRAMING WITH 8d NAILS (0.131" Ø X 2.5" LONG) AT 6" O.C. AT ALL PANELS EDGES AND 8d NAILS AT 12" O.C. AT INTERMEDIATE FRAMING MEMBERS (UNBLOCKED). SEE DETAIL 6/S4.0.
- SW-x INDICATES SHEAR WALL AT LEVEL BELOW. SEE SHEAR WALL SCHEDULE 8/S4.0 FOR SHEATHING, BLOCKING, NAILING, AND ANCHOR BOLT REQUIREMENTS.

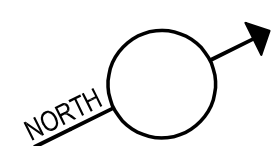
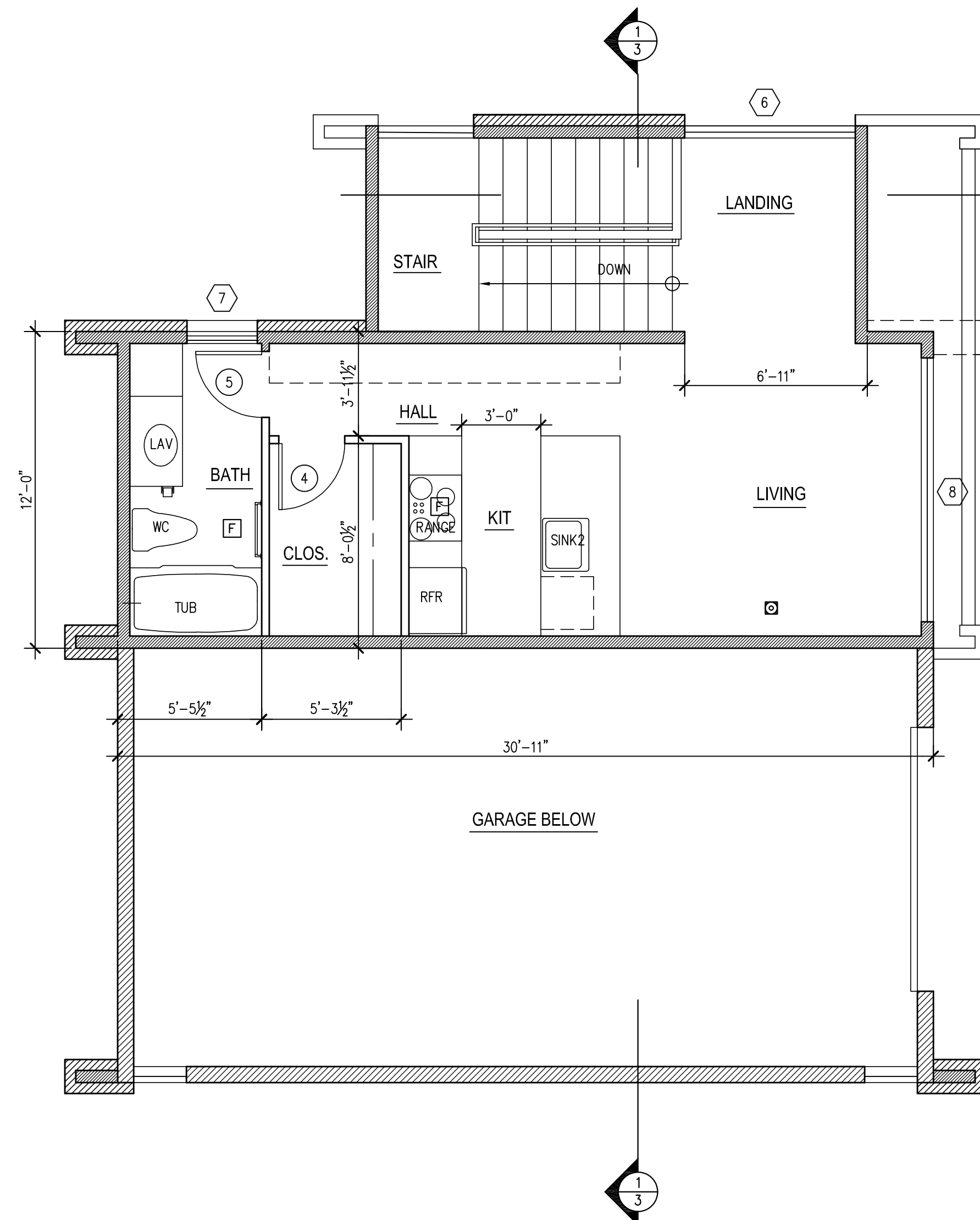
FLOOR FRAMING NOTES:

- SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEETS S4.0, S4.1 AND S4.2 FOR TYPICAL WOOD DETAILS.
- TYPICAL FLOOR FRAMING CONSISTS OF 23/32" APA RATED T&G SHEATHING (INDEX 48/24) LAID FACE GRAIN PERPENDICULAR OVER 9 1/2" TJI 210 JOISTS AT 16" O.C. HANG TJI JOISTS WITH IUS TOP FLANGE HANGERS TYPICAL AT FLUSH BEAMS, U.O.N.
- NAIL FLOOR SHEATHING TO FRAMING WITH 8d NAILS (0.131" Ø X 2.5" LONG) AT 6" O.C. AT ALL PANELS EDGES AND 8d NAILS AT 12" O.C. AT INTERMEDIATE FRAMING MEMBERS (UNBLOCKED). SEE DETAIL 6/S4.0.
- SW-x INDICATES SHEAR WALL AT LEVEL BELOW. SEE SHEAR WALL SCHEDULE 8/S4.0 FOR SHEATHING, BLOCKING, NAILING, AND ANCHOR BOLT REQUIREMENTS.
- CS16 INDICATES HOLDDOWN STRAP TO FRAMING BELOW WALL. SEE 10/S4.0 FOR STRAP HOLDOWN DETAIL AT FLOOR-TO-FLOOR AND BEAM SUPPORTING SHEAR WALL END. USE MIN. (2) 2x POST U.O.N.



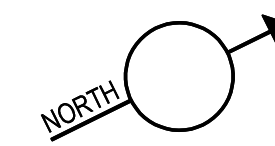
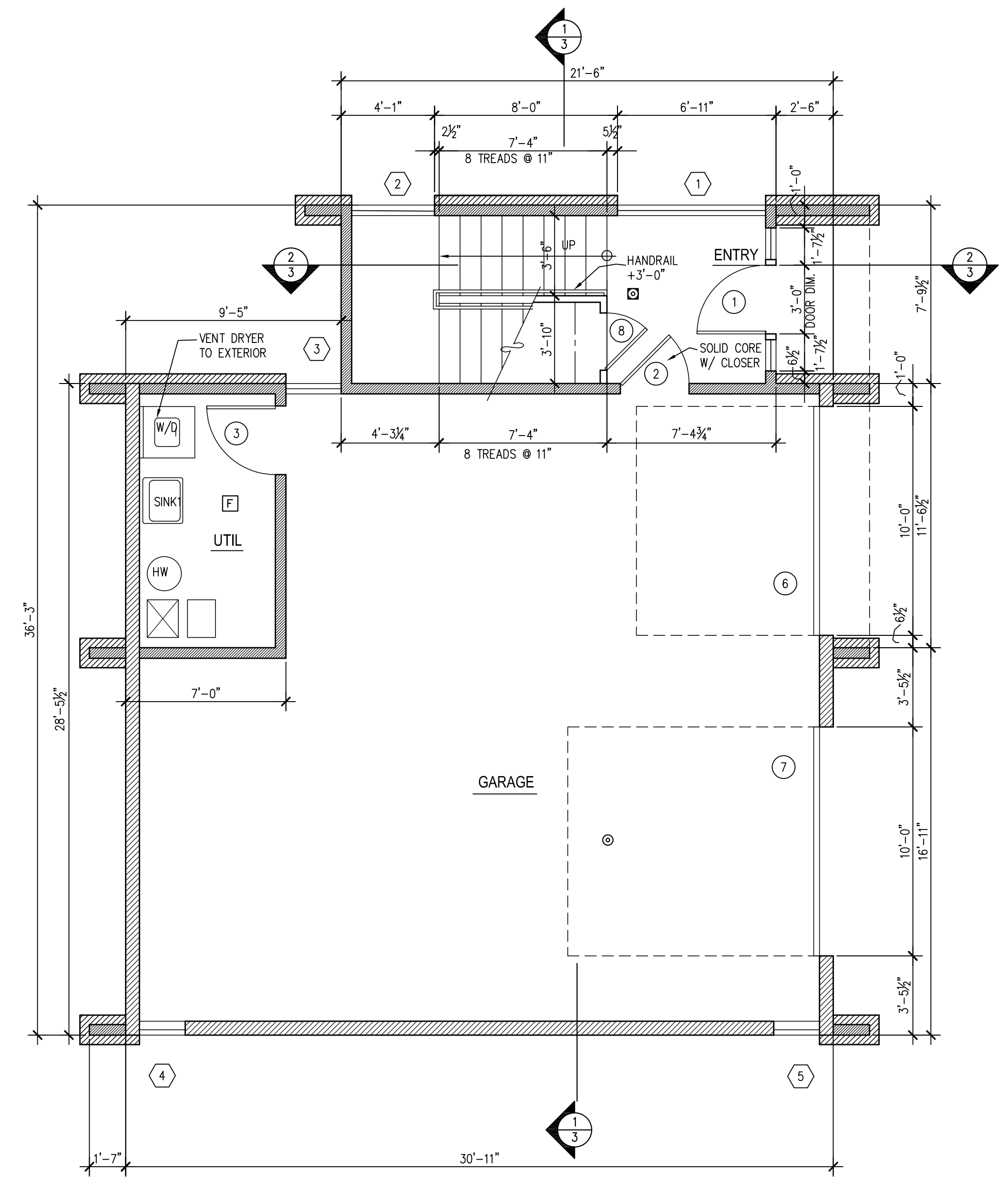
ROOF PLAN

1/4" = 1'-0"



UPPER FLOOR

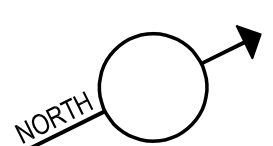
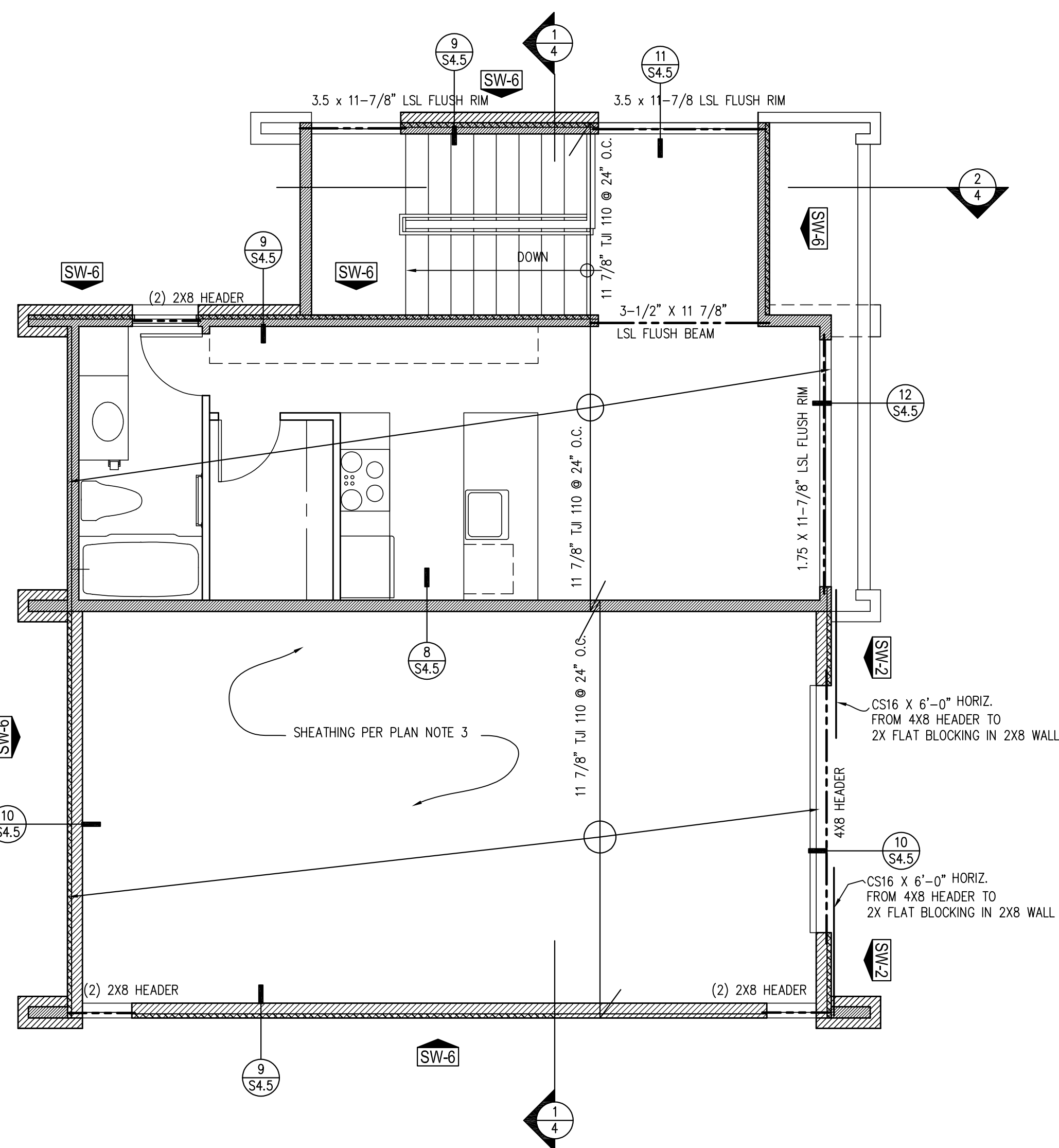
1/4" = 1'-0"



MAIN FLOOR

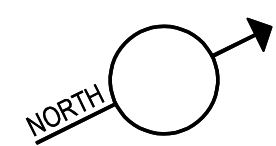
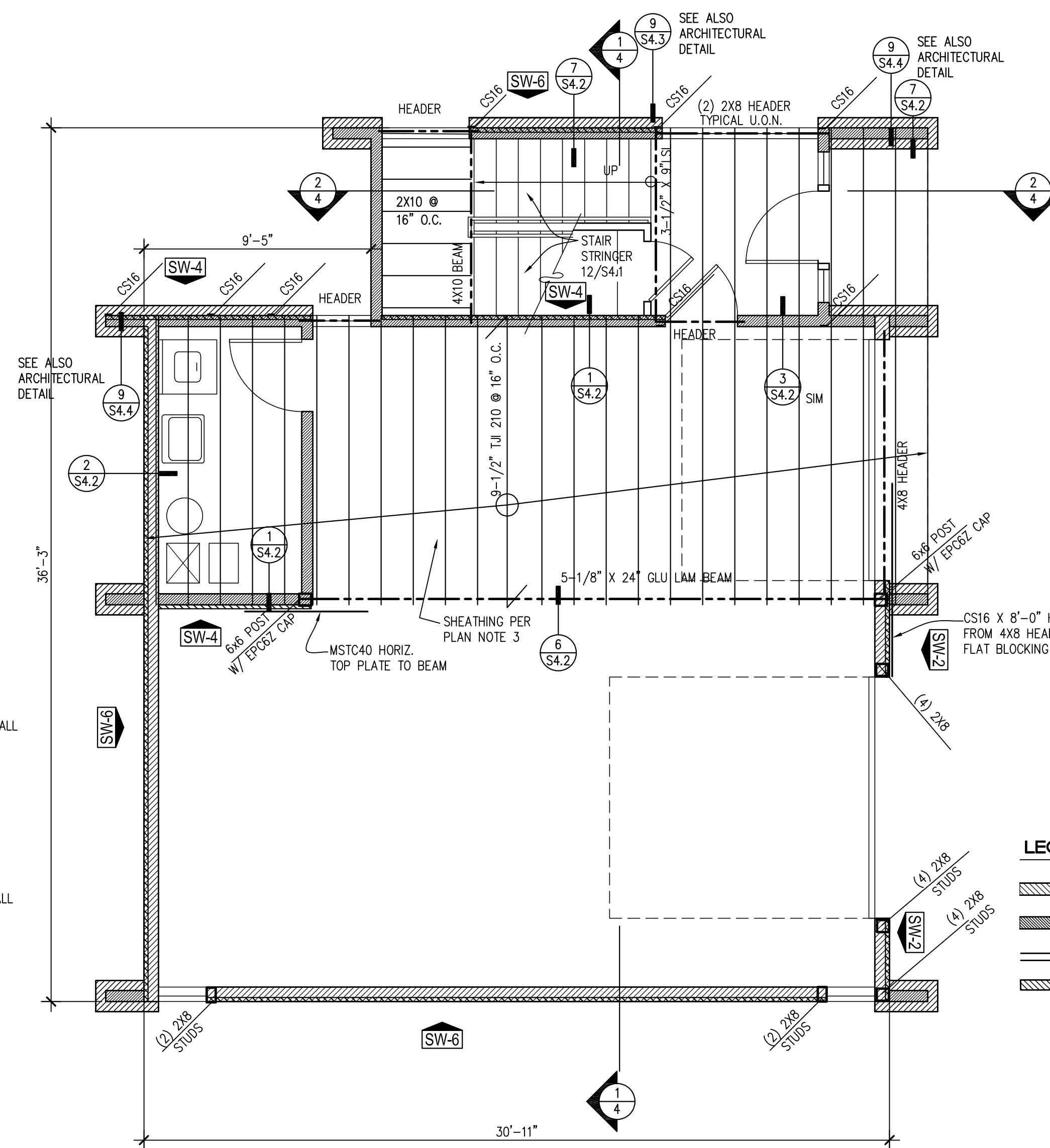
1/4" = 1'-0"

- ◻ COMBO-SMOKE/CARBON MONOXIDE DETECTOR (S/DM)
- ⊙ HEAT DETECTOR
- ⊞ EXHAUST FAN (VENT TO EXTERIOR) 50 CFM, 100 CFM AT HOOD



ADU ROOF FRAMING PLAN

1/4" = 1'-0"

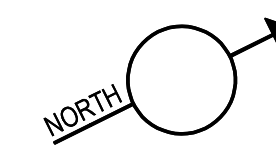
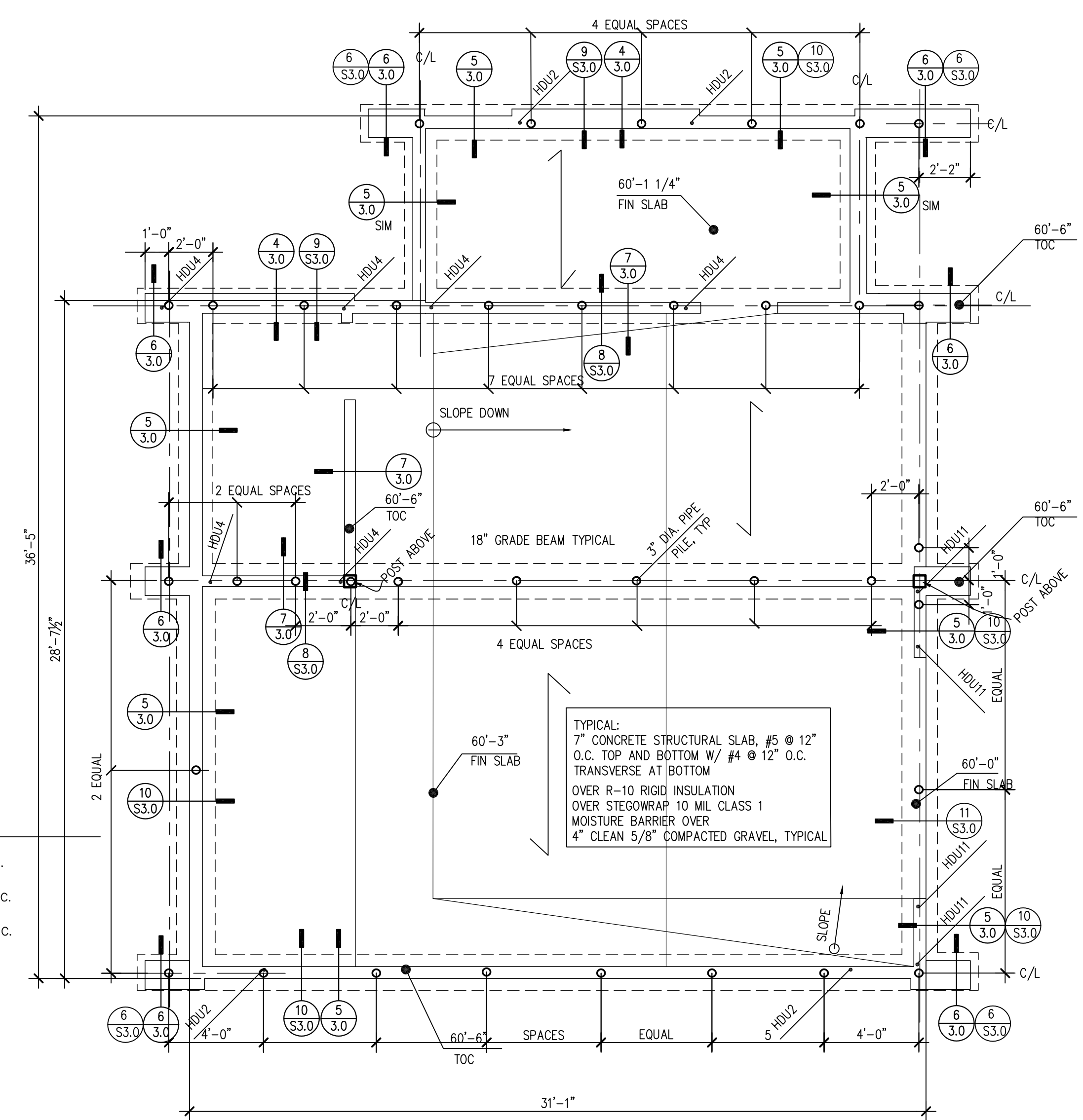


ADU UPPER FLOOR FRAMING PLAN

1/4" = 1'-0"

LEGEND

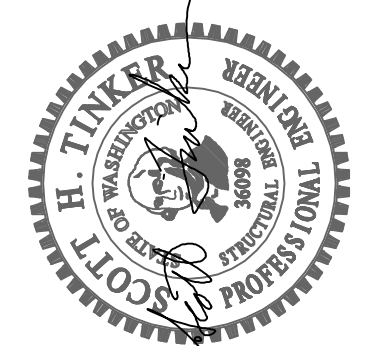
- NEW 2X8 STUDS @ 16" O.C.
- NEW 2X6 STUDS @ 16" O.C.
- NEW 2X4 STUDS @ 16" O.C.
- NEW BRICK VENEER

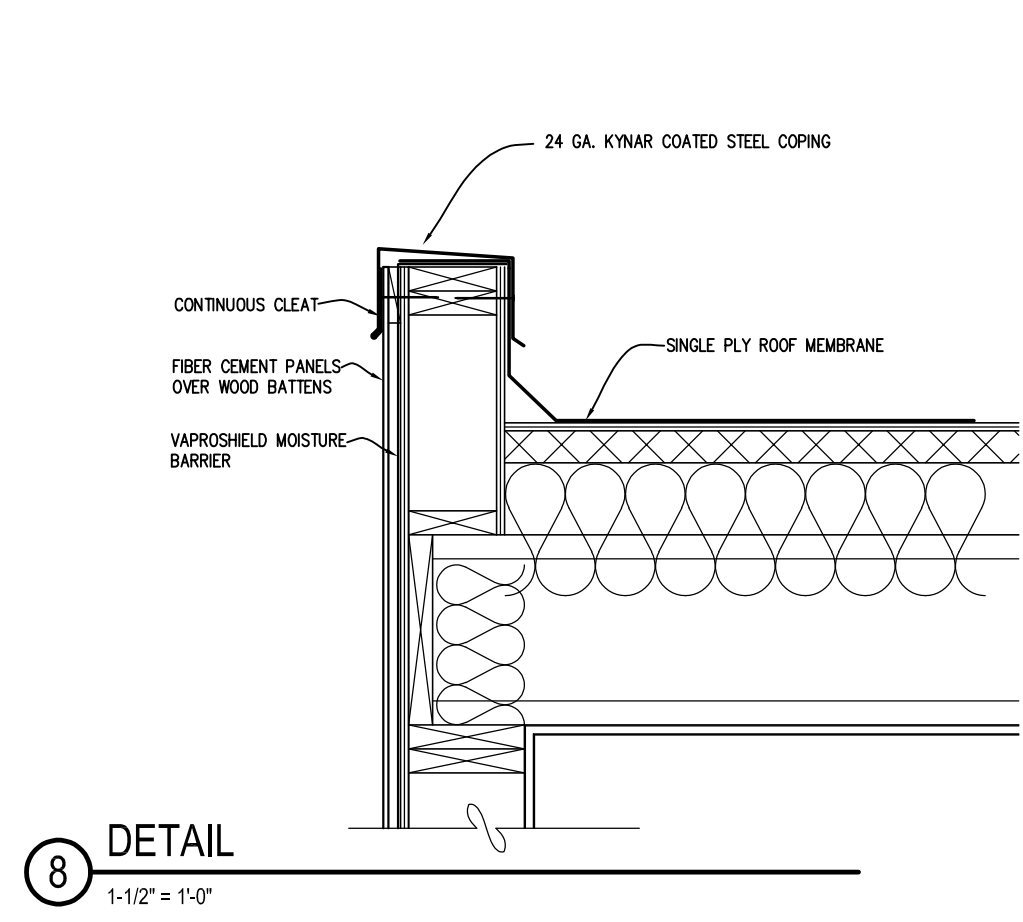


FOUNDATION PLAN

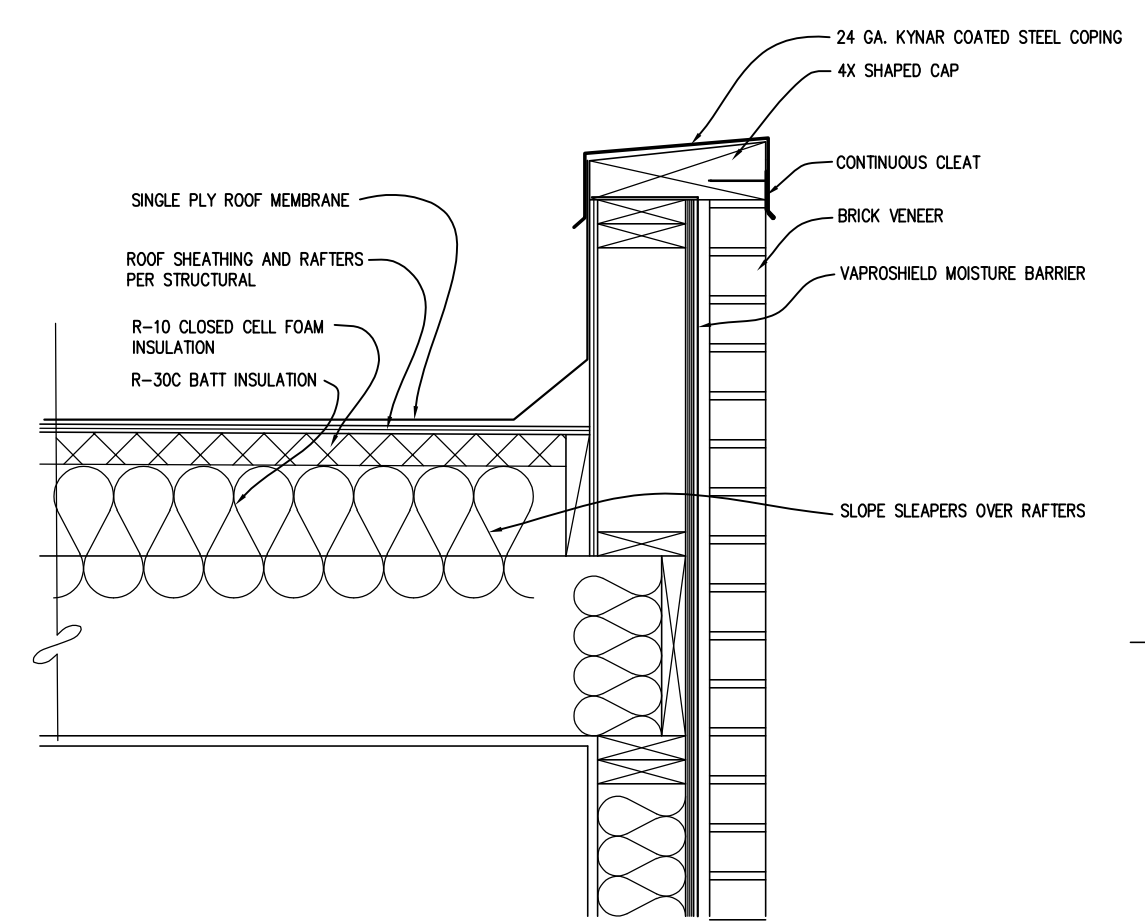
1/4" = 1'-0"

TOC - TOP OF CONCRETE
FIN SLAB - FINISH SLAB ELEVATION

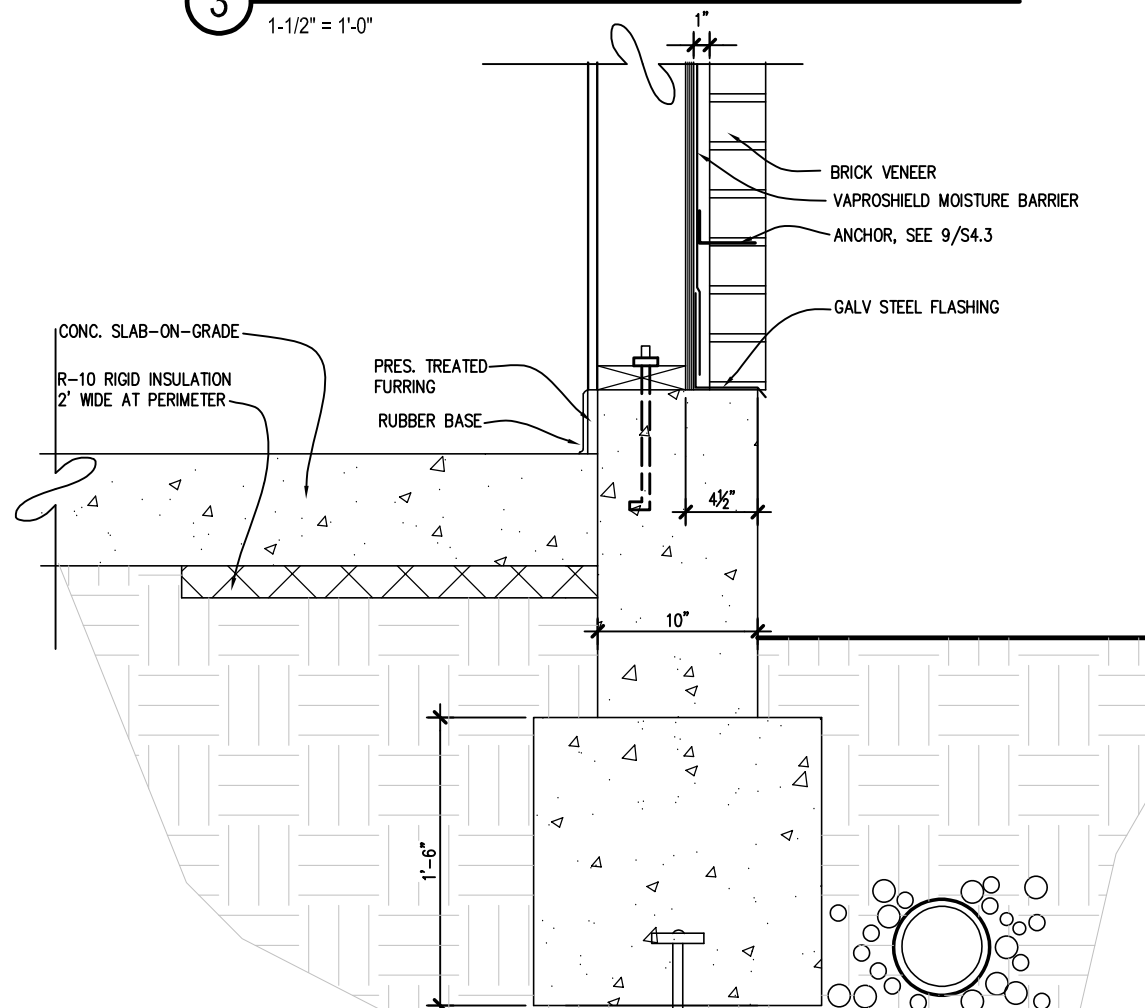




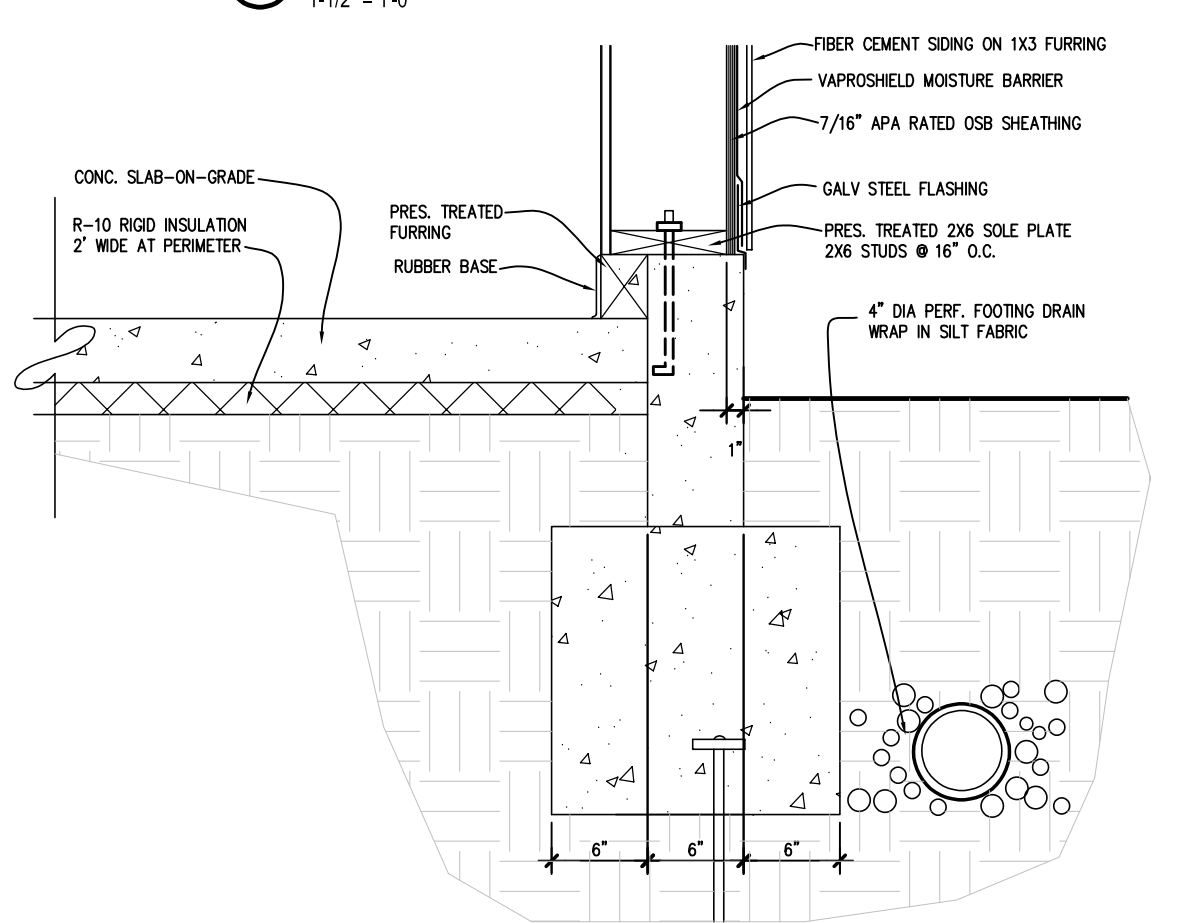
8 DETAIL
1/12" = 1'-0"



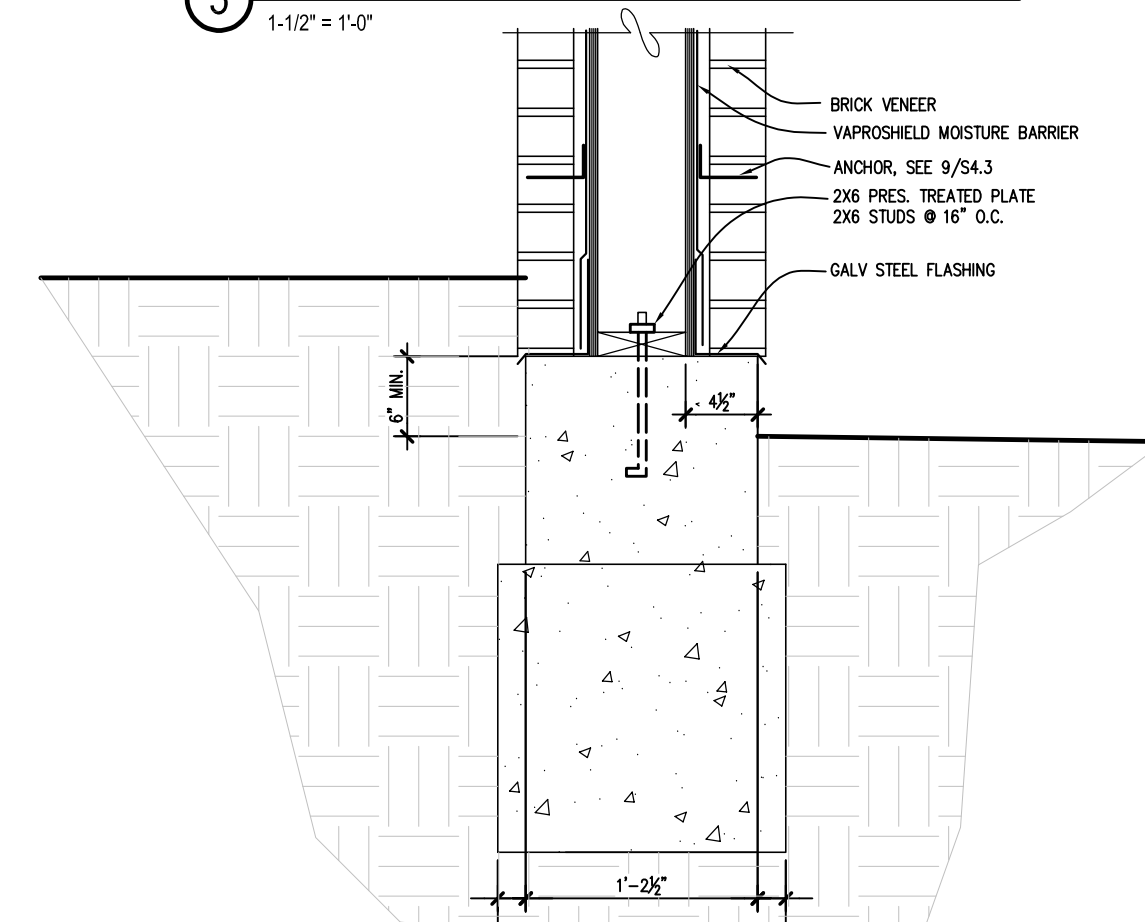
3 DETAIL
1/12" = 1'-0"



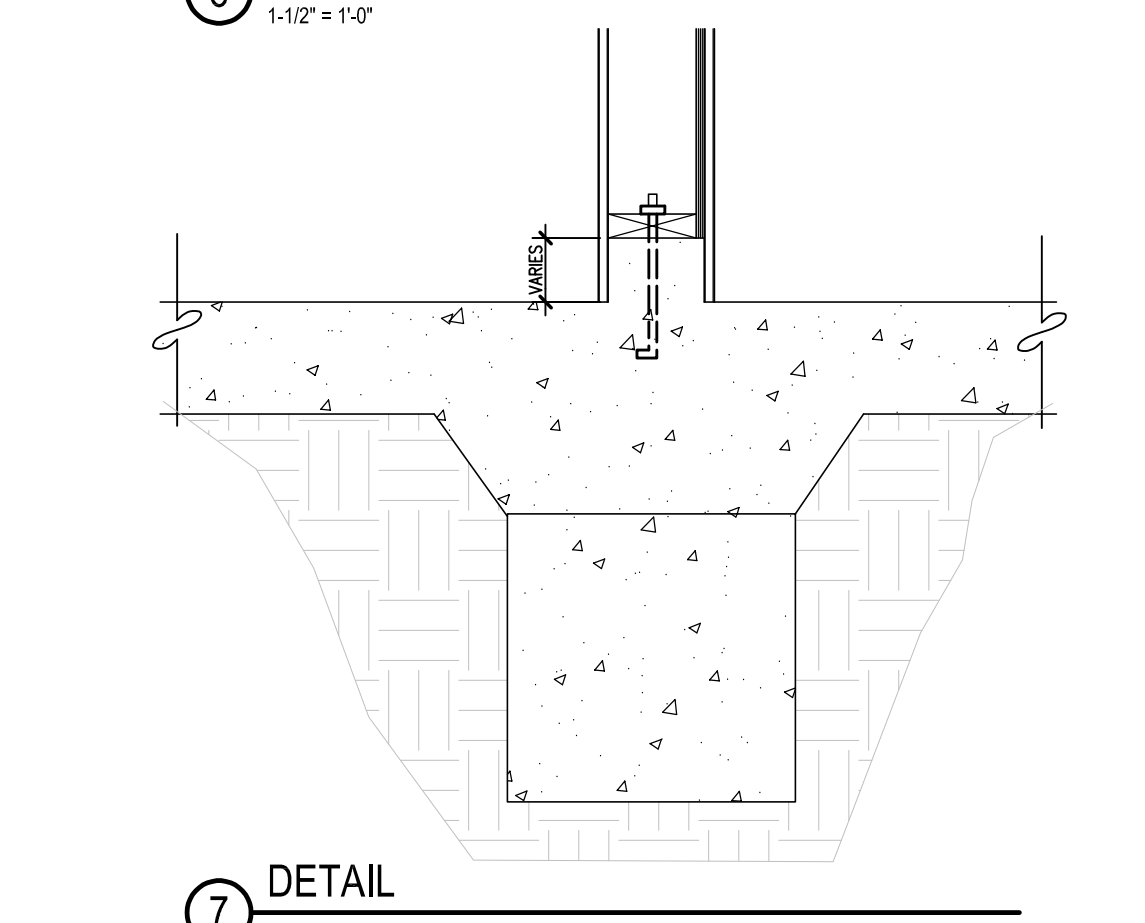
4 DETAIL
1/12" = 1'-0"



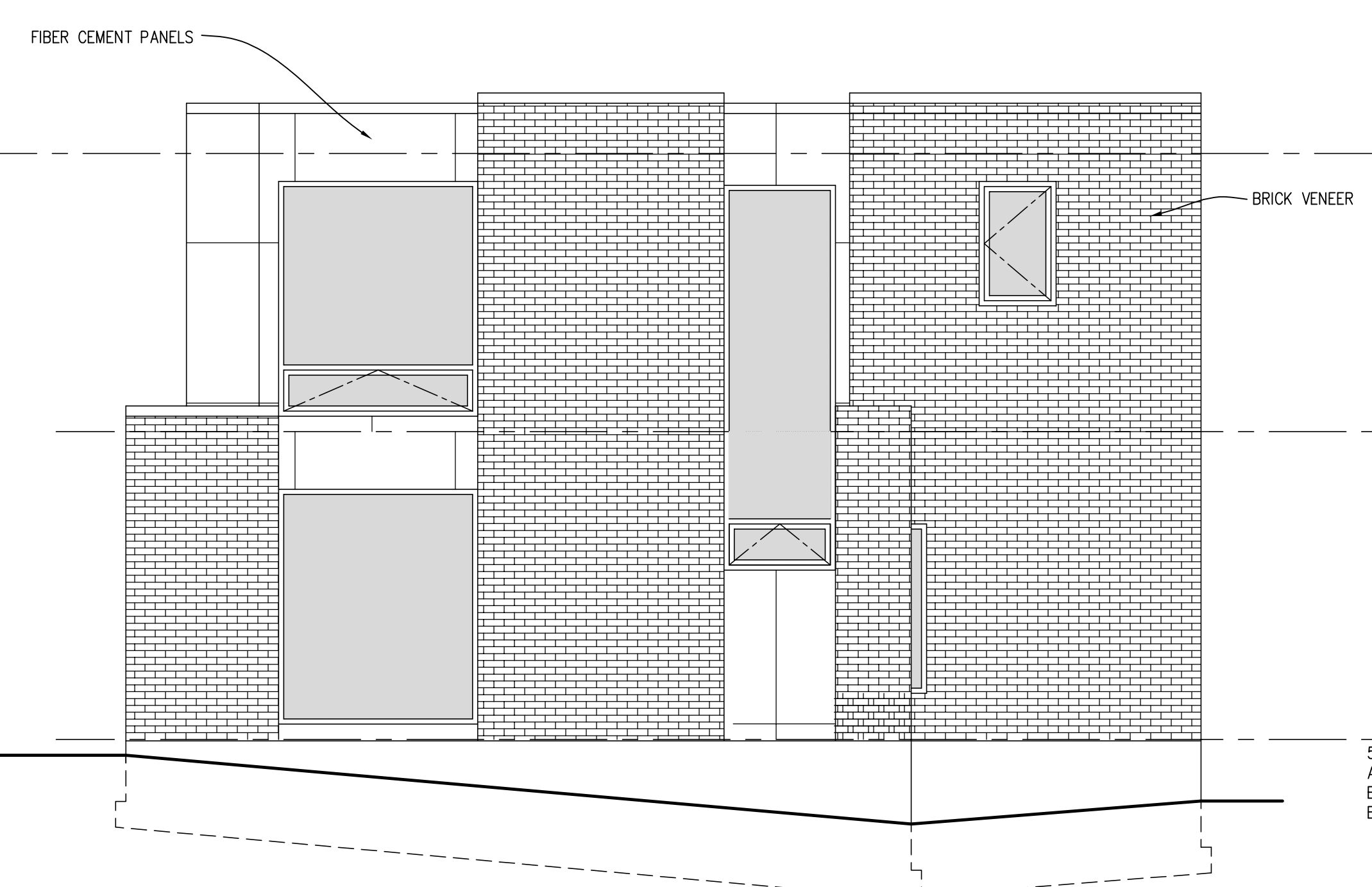
5 DETAIL
1/12" = 1'-0"



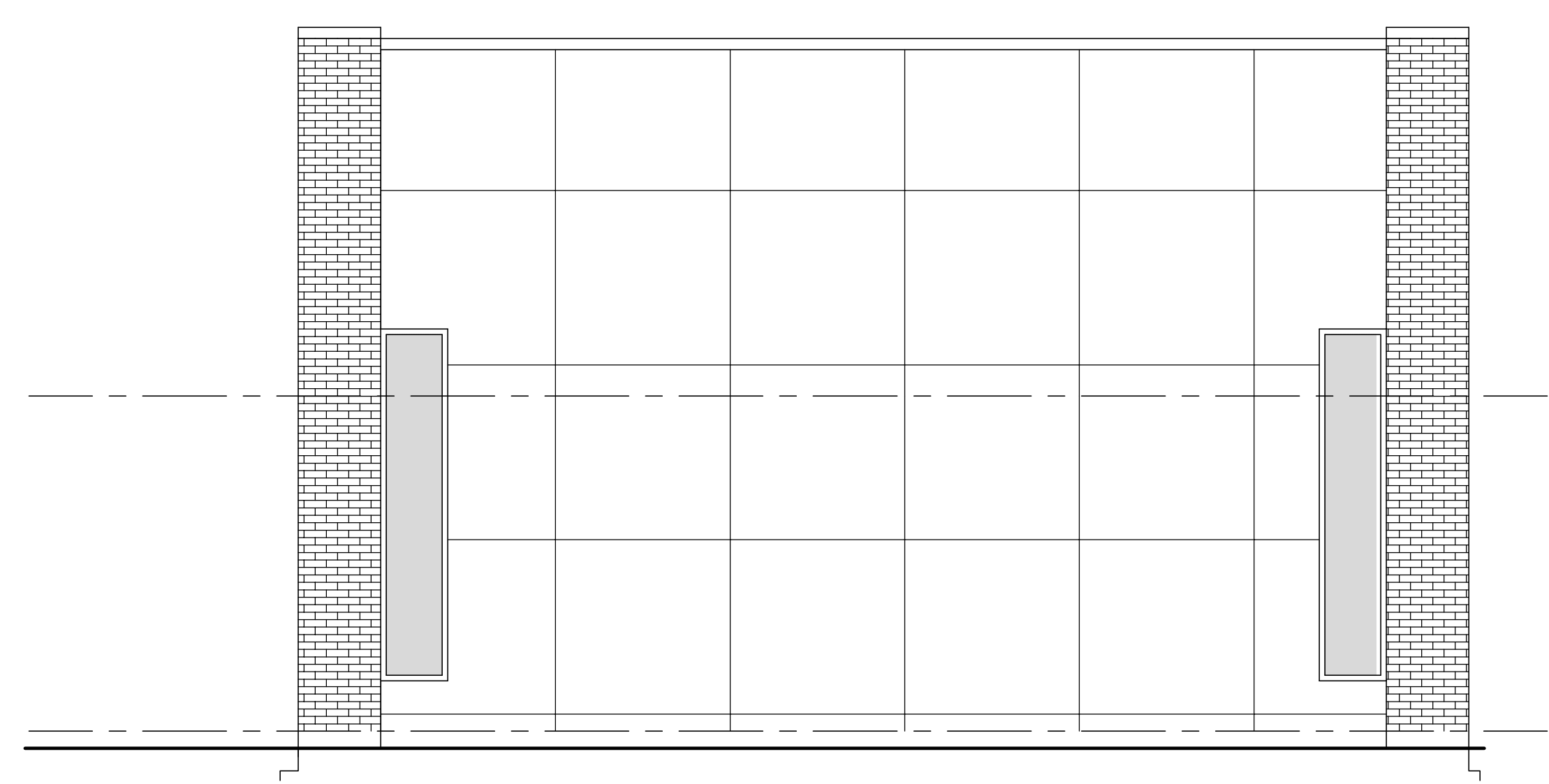
6 DETAIL
1/12" = 1'-0"



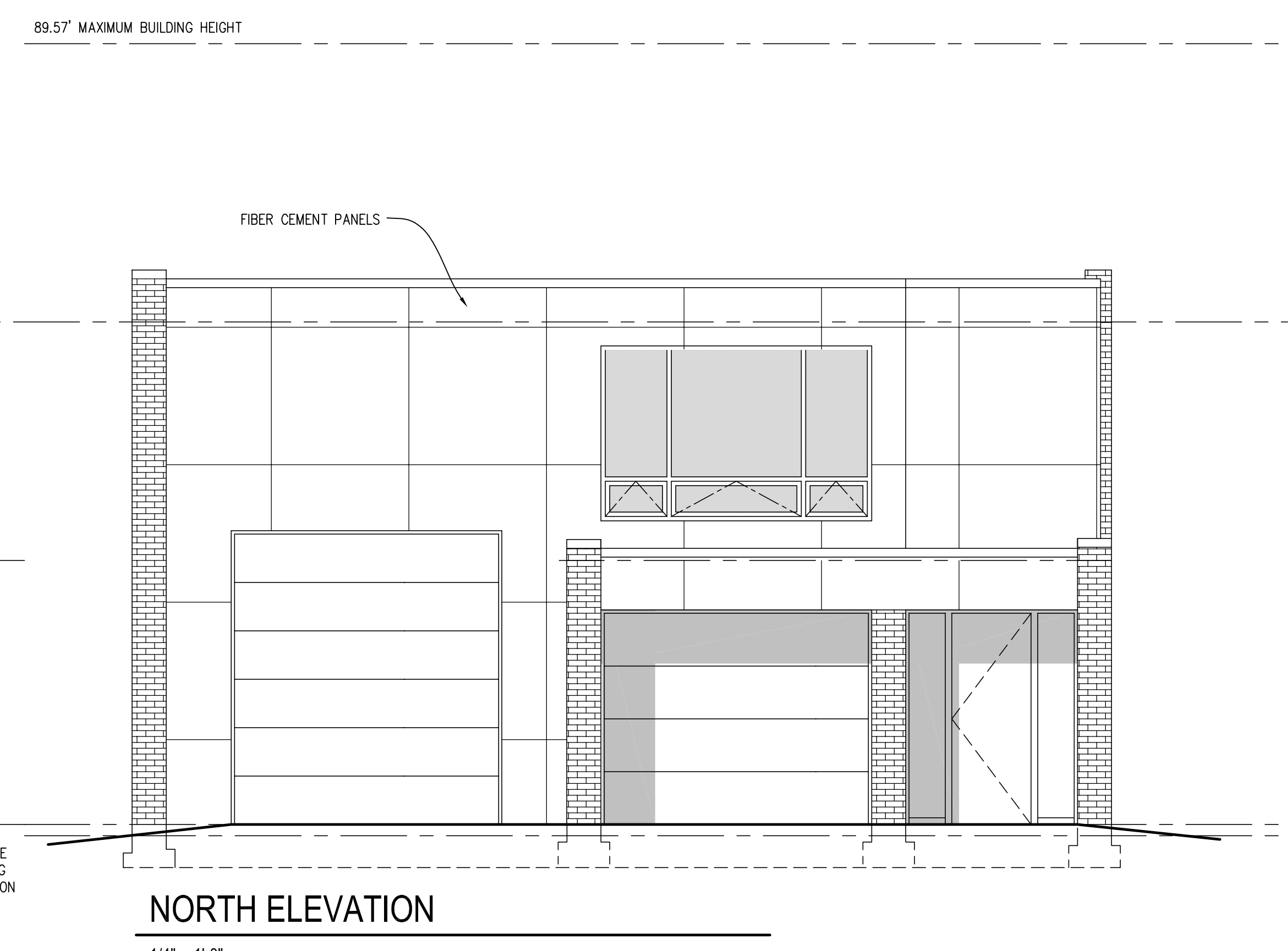
7 DETAIL
1/12" = 1'-0"



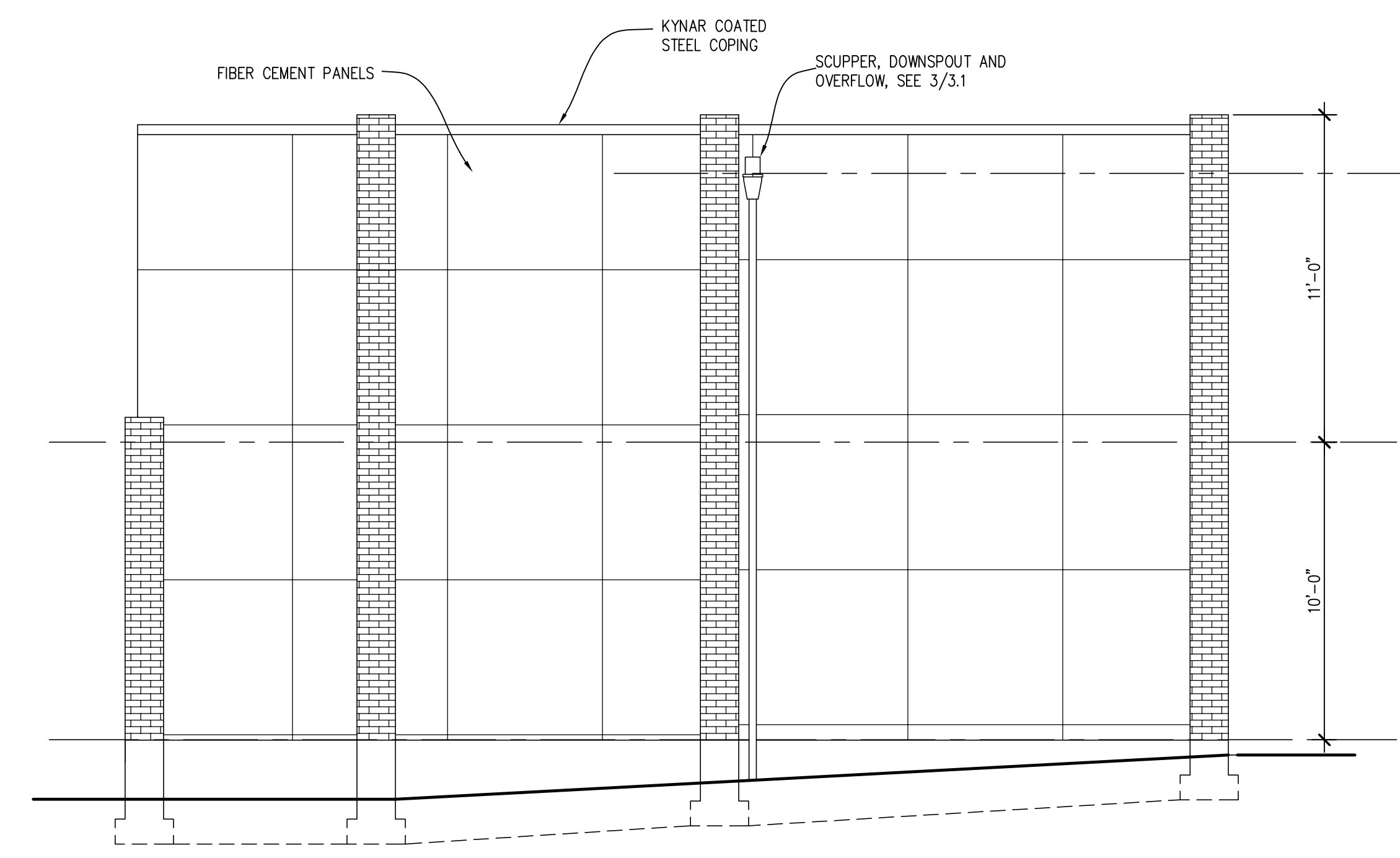
WEST ELEVATION
1/4" = 1'-0"



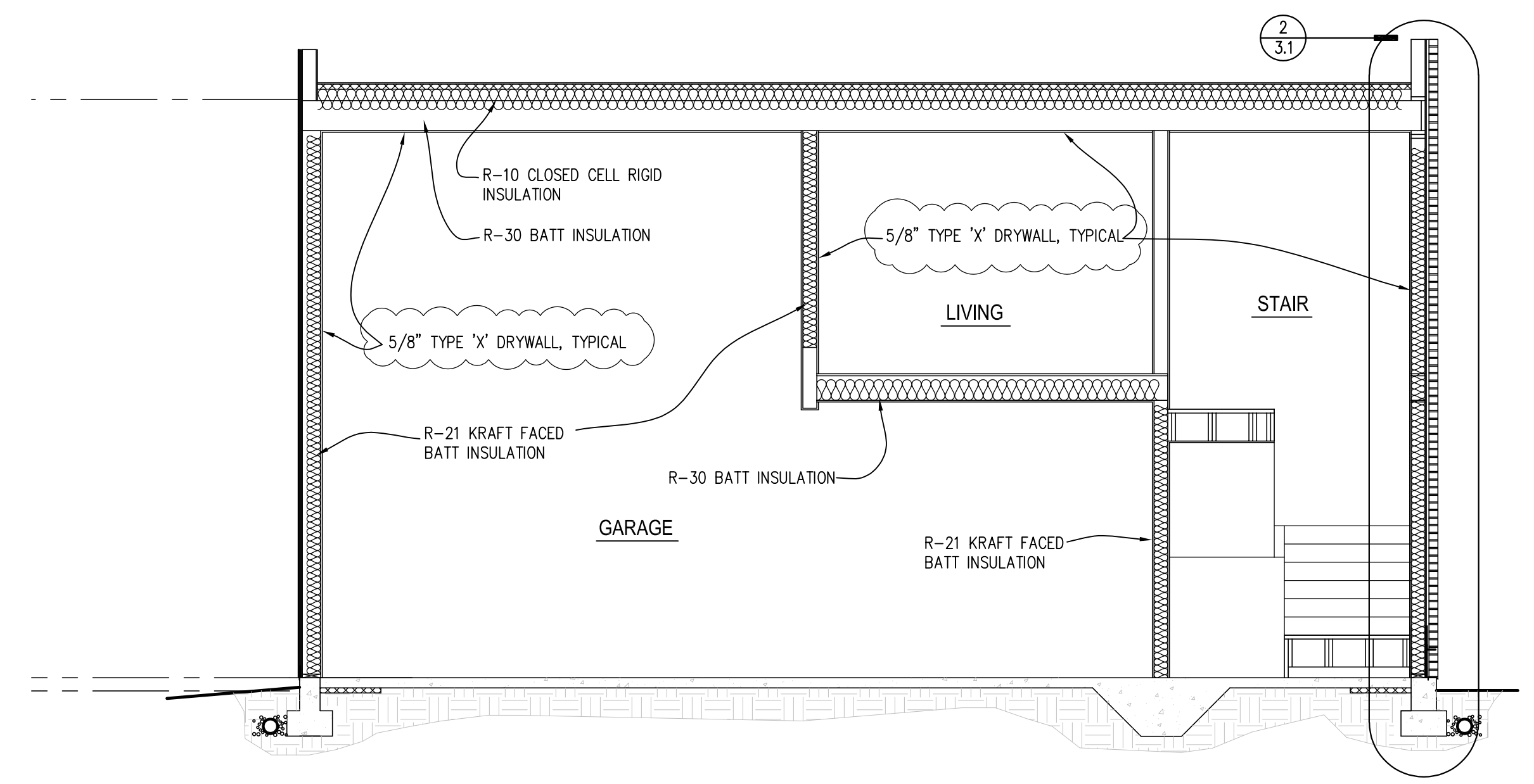
EAST ELEVATION
1/4" = 1'-0"



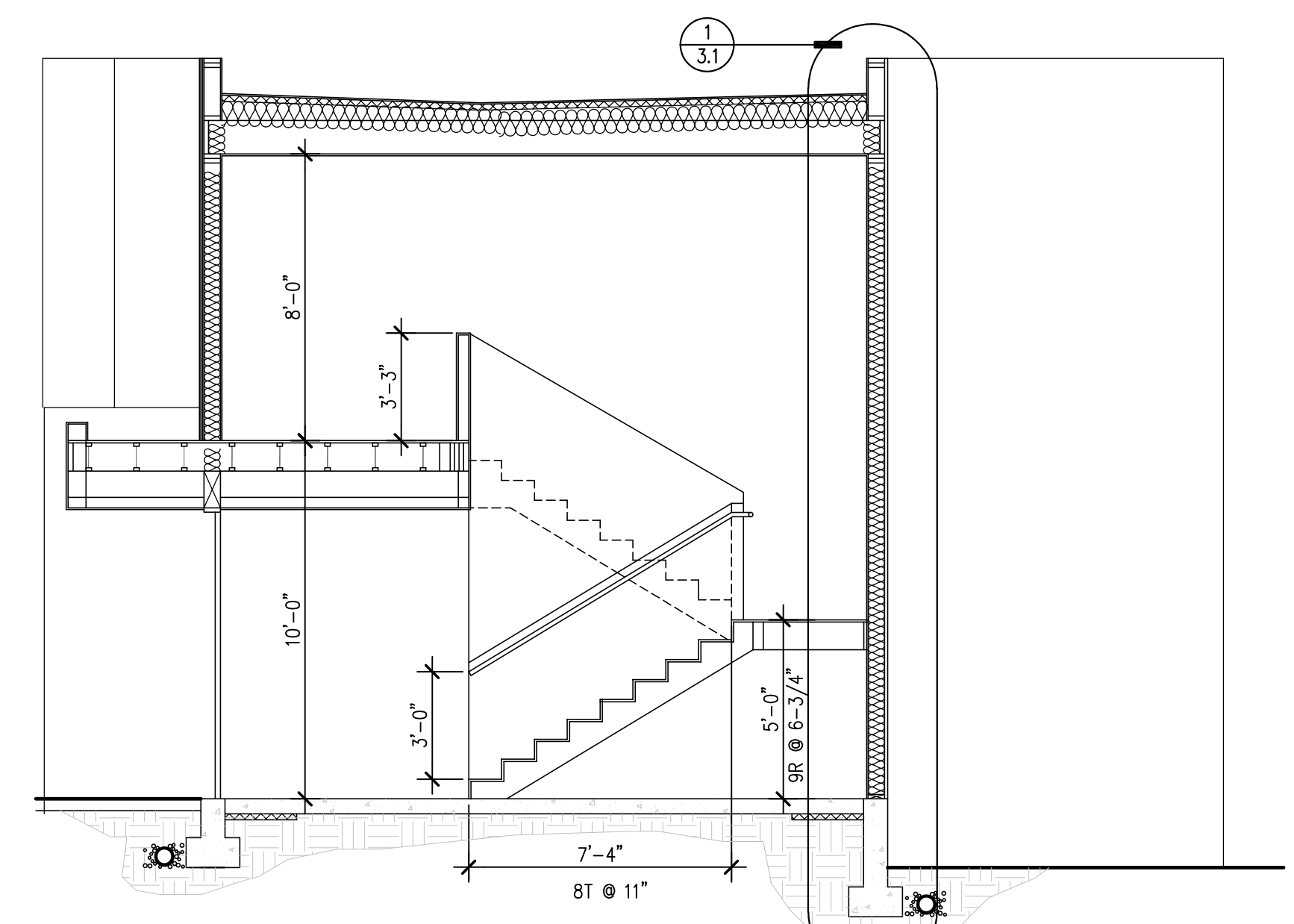
NORTH ELEVATION
1/4" = 1'-0"



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



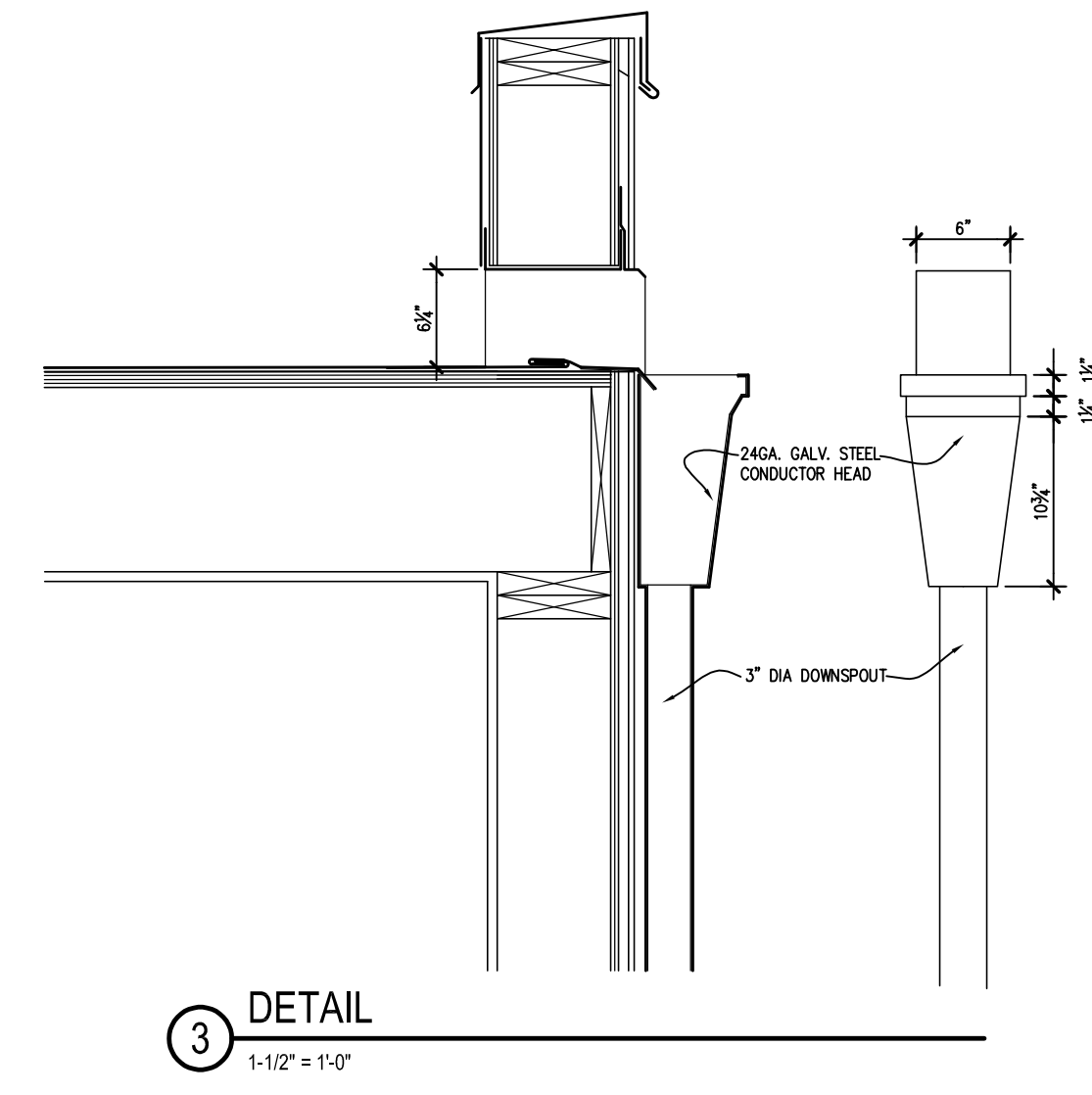
1 BUILDING SECTION
1/4" = 1'-0"



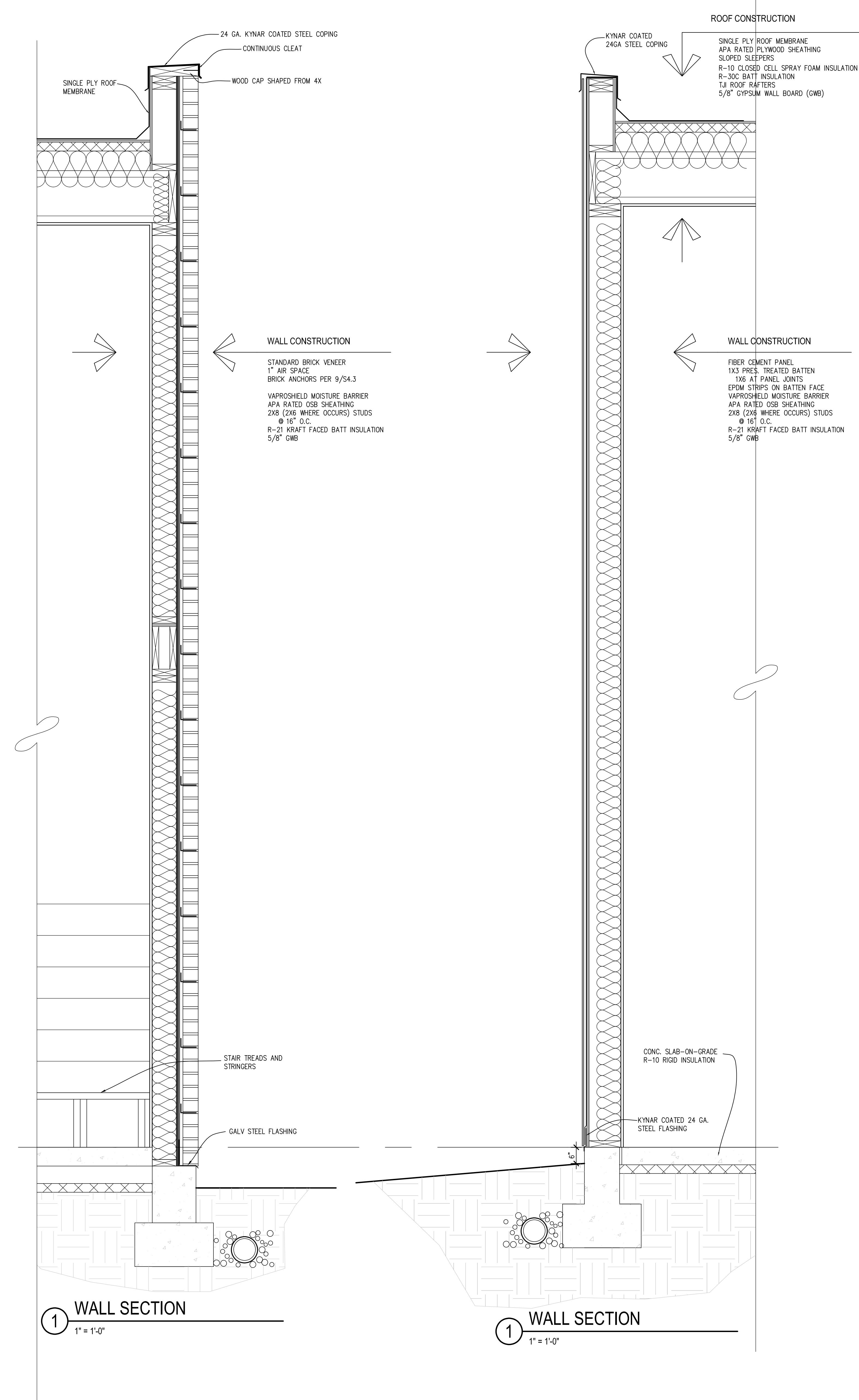
2 BUILDING SECTION
1/4" = 1'-0"



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3
1'-0" = 1'-0"



1
1" = 1'-0"

1
1" = 1'-0"

WALL CONSTRUCTION
STANDARD BRICK VENEER
1" AIR SPACE
BRICK ANCHORS PER 9/S4.3
VAPROSHIELD MOISTURE BARRIER
APA RATED OSB SHEATHING
2X8 (2X6 WHERE OCCURS) STUDS
@ 16" O.C.
R-21 KRAFT FACED BATT INSULATION
5/8" GWB

WALL CONSTRUCTION
FIBER CEMENT PANEL
1X6 PRES. TREATED BATTEN
1X6 AT PANEL JOINTS
EPDM STRIPS ON BATTEN FACE
VAPROSHIELD MOISTURE BARRIER
APA RATED OSB SHEATHING
2X8 (2X6 WHERE OCCURS) STUDS
@ 16" O.C.
R-21 KRAFT FACED BATT INSULATION
5/8" GWB

ROOF CONSTRUCTION
SINGLE PLY ROOF MEMBRANE
APA RATED PLYWOOD SHEATHING
SLOPED SLEEPERS
R-10 CLOSED CELL SPRAY FOAM INSULATION
R-30C BATT INSULATION
TJI ROOF RAFTERS
5/8" GYPSUM WALL BOARD (GWB)

HONG AND KAO RESIDENCE DADU

5425 W. MERCER WAY
MERCER ISLAND, WA 98040

CHESMORE|BUCK
Architecture
27 100TH AVENUE NE, SUITE 100
BELLEVUE, WA 98004
PHONE: 425-679-9807
FAX: 425-679-0804



No.	Date	Revision