

GENERAL STRUCTURAL NOTES

DESIGN CRITERIA

- Building code: Utah Title 15A
- Referenced building code: 2015 International Residential Code
- Dead loads
 - Roof = 15 psf
 - Floor = 12 psf
 - Exterior walls = 12 psf
 - Interior walls = 10 psf
- Live loads
 - Roofs (ordinary construction) = 20 psf
 - Rooms = 40 psf
 - Stairs and exits (1-2 unit dwelling) = 40 psf
 - Balconies (exterior) and decks = 60 psf
 - Uninhabitable attics with limited storage = 20 psf
 - Uninhabitable attics without storage = 10 psf
- Snow load
 - Ground snow load = 54 psf (per USU Snow Load Map)
 - Flat roof snow load = 38 psf
- Earthquake design data
 - Short period acceleration SS = 0.804, SDS = 0.64 g
 - Seismic Design Category D
 - Seismic force resisting system: Light-frame wood walls (wood sheathing)
 - Seismic Response Coefficient 0.100
 - Seismic Base Shear = 19,200 lbs
- Wind design data
 - Ultimate design wind speed, V-Ult = 115 mph
 - Exposure Category C
- Geotechnical design data
 - Site class = D (Default)
 - Soil bearing pressure = 1500 psf
 - Lateral soil pressure = 35 psf
 - Minimum Frost Cover = 36 inches

MATERIALS

- Soil
 - Bearing Soil - Undisturbed native soil or compacted engineered fill (Assumed CL, ML, MH, CH or better)
 - Foundation Backfill - Engineered Fill (Assumed GW, GP, SW, SP, or better)
- Concrete
 - Footings f'c = 3,000psi
 - Walls f'c = 3,000psi
 - Porch Slabs & Garage Slabs f'c = 4,000 psi
 - All other Slabs f'c = 3,500 psi
- Masonry
 - Concrete Masonry Units f'm = 1,900 psi
 - Mortar f'c = 1,900 psi
 - Grout f'c = 2,000 psi
- Reinforcing Bars Grade 60 (60,000 psi), Deformed Bars
- Steel
 - W - Wide Flange A992-50
 - HSS - Hollow Structural Sections A500 Gr. C
 - Pipe A53 Gr. B
 - Angles, Plates, Bars A36
 - Bolts A325
 - Anchor Rods A36
 - Shear Studs A108
 - Welded Wire A1064
- Sawn Lumber Specie - Douglas Fir-Larch
 - Wall Studs & Plates - Stud Grade or better U.N.O.
 - Headers & Beams -
 - 4X and Narrower - No. 2 Grade or better U.N.O.
 - 6X and Wider - No. 1 Grade or better U.N.O.
 - Joists & Rafters - No. 2 Grade or better U.N.O.
 - Posts - No. 2 Grade or better U.N.O.
- Glued Laminated Timber (GLT, GLB) 24F-1.8E Unbalanced U.N.O.
- Structural Composite Lumber
 - Laminated Veneer Lumber (LVL) - Fb = 2,800 psi, E = 2.0E or better U.N.O.
 - Laminated Strand Lumber (LSL) - Fb = 2,400 psi, E = 1.7E or better U.N.O.
 - Parallel Strand Lumber(PSL) - Fc = 2,900 psi, E = 1.7E or better U.N.O.
 - Rim Board APA performance rated or equivalent
- Sheathing Oriented Strand Board (OSB), DOC PS 2 Wood Structural Panels - Sheathing or better
- Wood Fasteners ASTM F1667
 - Nails

Pennyweight	Common
8d	0.131" X 2.5"
10d	0.148" X 3.0"
16d	0.162" X 3.5"
 - Staples ASTM F1667 (1.5" X 7/16" crown)
 - Connector Bolts F1554 Gr. 36 U.N.O.
 - Hold-Down Anchor Bolts F1554 Gr. 36 U.N.O.
 - Sill Plate Anchor Bolts A307
 - Lag Screws A307
- Wood Connectors - Simpson Strong-Tie or equivalent
- Concrete Anchor Epoxy - Simpson SET-XP U.N.O.

GENERAL

- Construction documents are valid for a single use at the project location and shall not be re-used copied, or re-produced without written approval.
- Structural drawings and calculations are based on information provided by the client (in writing) and architectural drawings. The engineer is not responsible for omissions, conflicts, or inaccuracies in architectural plans provided.
- The engineer is not responsible for compliance of architectural, mechanical, electrical, plumbing, or other non-structural systems.
- Printed dimensions shall take precedence over scales shown on construction documents. The engineer is not responsible for providing dimensioned drawings for any portion of the structure.
- The engineer is not responsible for the design and construction of existing structures, except for modifications that are explicitly designed.
- The owner and/ or contractor shall notify the engineer of record, before construction, of any conditions or criteria that are different than what is specified on structural drawings or calculations, including but not limited to third party reports or criteria, site conditions, design criteria, and material specifications.
- Structural information not specified in the structural drawings shall be according to information provided by the respective product manufacturer or a registered design professional as required by the local jurisdiction. All hardware and materials shall be installed per manufacturer specifications.
- The contractor shall become familiar with the construction documents and shall ensure all subcontractors are familiar with their respective responsibilities. The contractor shall also verify the site conditions, elevations, dimensions, doors, windows, walls, stairs, curbs, drains, finishes, etc.
- Any and all structural specifications that are unclear or not understood shall be brought to the attention of the engineer prior to construction.
- Any changes to the structural design must be made with the approval of the engineer of record prior to construction. Notify the engineer prior to making any changes.
- The contractor shall be responsible for the method and sequence of construction. The contractor shall ensure proper temporary shoring and bracing of the structure. Bracing shall stay in place until permanent members are in place and all connections are finished.
- Approval by building inspectors does not guarantee or imply approval by engineer.

FOUNDATIONS AND SOIL

- Footings and foundations shall be supported by undisturbed natural soil or compacted engineered fill (IRC R403.1).
- Surface drainage shall be diverted to a storm sewer conveyance. Lots shall be graded to drain surface water away from foundation walls. The grade shall fall a minimum of 6 inches within the first 10 feet (IRC R401.3).
- The top surface of the footings shall be level. The bottom surface of footings is permitted to have a maximum 10-percent slope. Footings shall be stepped where it is necessary to change the elevation of the top surface of the footing or where the surface of the ground has more than a 10-percent slope (IRC 403.1.5).
- The minimum depth of footings below the undisturbed ground surface shall be 12 inches. Foundation walls, piers, and other permanent supports shall be extended below the frost line, except where otherwise protected from frost. (IRC 403.1.4 and IRC 403.1.4.1).
- Backfill shall not be placed against foundation walls until the walls have sufficient strength and have been anchored to the floor above, or has been sufficiently braced to prevent damage by the backfill (IRC R404.1.7).
- Concrete slab-on-ground floor shall be a minimum 3-1/2 inches thick and shall have a 4-inch-thick base course consisting of clean graded sand, gravel, crushed stone, crushed concrete or crushed blast-furnace slag passing a 2-inch sieve placed on the prepared subgrade (IRC R506.1 and R506.2.2) U.N.O.
- The area within the foundation walls shall have all vegetation, top soil, and foreign material removed (IRC R506.2).
- Fill material shall be free of vegetation and foreign material. The fill shall be compacted to ensure uniform support of the slab, and except where approved, the fill depths shall not exceed 24 inches for clean sand or gravel and 8 inches for earth (IRC R506.2.1).
- Drains shall be provided around concrete foundations that retain earth and enclose habitable or usable spaces located below grade. Drainage tiles, gravel or crushed stone drains, perforated pipe or other approved systems or materials shall be installed at or below the area to be protected and shall discharge by gravity or mechanical means into an approved drainage system. Gravel or crushed stone drains shall extend not less than 1 foot beyond the outside edge of the footing and 6 inches above the top of the footing and be covered by an approved filter membrane material (IRC R405.1).
- In areas where a high water table or other severe soil-water conditions are known to exist, exterior foundation walls that retain earth and enclose interior spaces shall be waterproofed. All other foundations that retain earth and enclose interior spaces shall be dampproofed.

CONCRETE

- The nominal maximum size of coarse aggregate shall not exceed one-fifth the narrowest distance between sides of forms, or three-fourths the clear spacing between reinforcing bars or between a bar and the side of the form (IRC R404.1.3.3.3).
- Reinforcement shall be secured in the proper location in the forms with tie wire or other bar support system to prevent displacement during the concrete placement operation. Steel reinforcement in concrete cast against earth shall have a minimum cover of 3 inches. Minimum cover for reinforcement in concrete cast in removable forms that will be exposed to the earth or weather shall be 1-1/2 inches for No. 5 bars and smaller, and 2 inches for No. 6 bars and larger. For concrete cast in removable forms that will not be exposed to the earth or weather, and for concrete cast in stay-in-place forms, minimum cover shall be ¾ inch. The minus tolerance for cover shall not exceed the smaller of one-third the required cover or 3/8 inch (IRC R404.1.3.3.7.4).

- Vertical and horizontal wall reinforcement shall be the longest lengths practical. Where splices are necessary in reinforcement, the length of the lap splice shall be in accordance with Table R608.5.4(1) and Figure R608.5.4(1) (IRC R404.1.3.3.7.5).
- Forms shall provide sufficient strength to contain concrete during the concrete placement operation (IRC R404.1.3.3.6).
- Lintels shall be provided over all openings equal to or greater than 2 feet in width. (IRC 608.8.2).
- Pipes and conduits that run through concrete walls, foundations, or footings shall be approved by engineer.
- Hole drilling and epoxying of post-installed anchoring or reinforcement shall conform to manufacturer's requirements of training, cleaning, installation, and inspection.

MASONRY AND STONE VENEER

- Masonry and stone veneer shall be installed over a backing of wood and shall not exceed 4 inches in thickness (IRC R703.8).
- 2 inch adhered veneer and other thin-cut stone shall be anchored per manufacturer's specifications
- Masonry veneer shall not support any vertical load other than the dead load of the veneer above. (R703.8.3).

WOOD AND FRAMING

- Wood materials used for the structure shall be marked or identified by the provider with their grade and/ or material properties.
- Joists shall be supported laterally at the ends by full-depth solid blocking not less than 2 inches nominal in thickness; or by attachment to a full-depth header, band or rim joist, or to an adjoining stud or shall be otherwise provided with lateral support to prevent rotation (IRC R502.7).
- Trusses, structural composite lumber, structural glued-laminated members and I-joists shall be supported laterally as required by the manufacturer's recommendations (IRC R502.7).
- Deck beams shall be attached to deck posts in accordance with structural details or by other equivalent means capable to resist lateral displacement. Manufactured post-to-beam connectors shall be sized for the post and beam sizes. All bolts shall have washers under the head and nut (IRC R507.7.1).
- Isolated posts shall bear on footings in accordance with structural details and shall be restrained to prevent lateral displacement at the bottom support. Such lateral restraint shall be provided by manufactured connectors installed in accordance with manufacturers' instructions (IRC R507.8.1).
- Wood stud walls shall be capped with a double top plate installed to provide overlapping at corners and intersections with bearing partitions. End joints in top plates shall be offset not less than 24 inches. Joints in plates need not occur over studs. Plates shall be not less than 2-inches nominal thickness and have a width not less than the width of the studs (IRC R602.3.2).
- Where joists, trusses or rafters are spaced more than 16 inches on center and the bearing studs below are spaced 24 inches on center, such members shall bear within 5 inches of the studs beneath (IRC R602.3.3).
- Studs shall have full bearing on a nominal 2-by or larger plate or sill having a width not less than the width of the studs (IRC R602.3.4).
- Interior load-bearing walls shall be constructed, framed and fireblocked as specified for exterior walls (IRC R602.4).
- All posts shall extend down through the entire structure to the foundation and shall be laterally supported at all floor levels; install squash blocking at rim joist under all posts, trimmers, and columns.
- Wall studs shall not be spliced vertically and shall be continuous from bottom plate to double top plate except where interrupted by a header, beam, truss, or joist.
- No less than three studs shall be installed at corners of exterior walls.
- Trimmers, king studs, posts, and columns shall be the same size lumber as the wall studs U.N.O.
- Columns, posts, and trimmers shall be as wide s the member they support. Girder trusses, beams, and other members shall have full bearing on supports.
- Dimensional lumber joists and rafters shall have 1-1/2 inches of bearing on wood or bear on hanger designed for the load. I-joist joists and rafters shall have bearing per manufacturer specifications or bear on hangers designed for the load.
- Wall studs shall have full bearing on 2X nominal bottom plate
- Full height of bearing walls and shear walls shall not be interrupted with ceiling joists or plates. Sheathing shall run continuous from floor sheathing to roof sheathing or from slab to floor framing U.N.O.
- Contractor shall be responsible for all connections. Connections must carry the load of the member. Contact engineer for assistance if non-standard connections are required.
- No structural member shall be cut or notched unless shown on structural plans or approved by engineer.
- Hangers, hardware, and connectors shall have all nail/ screw holes filled U.N.O.

TRUSSES

- Wood trusses shall be designed in accordance with approved engineering practice. The design and manufacture of metal-plate-connected wood trusses shall comply with ANSI/TPI 1. The truss design drawings shall be prepared by a registered professional where required by the statutes of the jurisdiction in which the project is to be constructed (IRC R 502.11.1).
- Trusses shall be braced to prevent rotation and provide lateral stability in accordance with the requirements specified in the construction documents for the building and on the individual truss design drawings (IRC R502.11.2).
- Truss members and components shall not be cut, notched, spliced or otherwise altered in any way without the approval of a registered design professional (IRC R502.11.3).
- Truss design drawings shall be submitted to engineer of record to be verified for general conformance with structural design prior to fabrication and installation. Truss manufacturer is responsible for design and specification of trusses, bracing, and connections.

SOLID STRUCTURAL ENGINEERING

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Project # : **220212**

Date: **02-17-2022**



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Revisions

1	12-16-2022	ANCHORS/ FOUNDATIONS
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-

GENERAL STRUCTURAL NOTES

GSN



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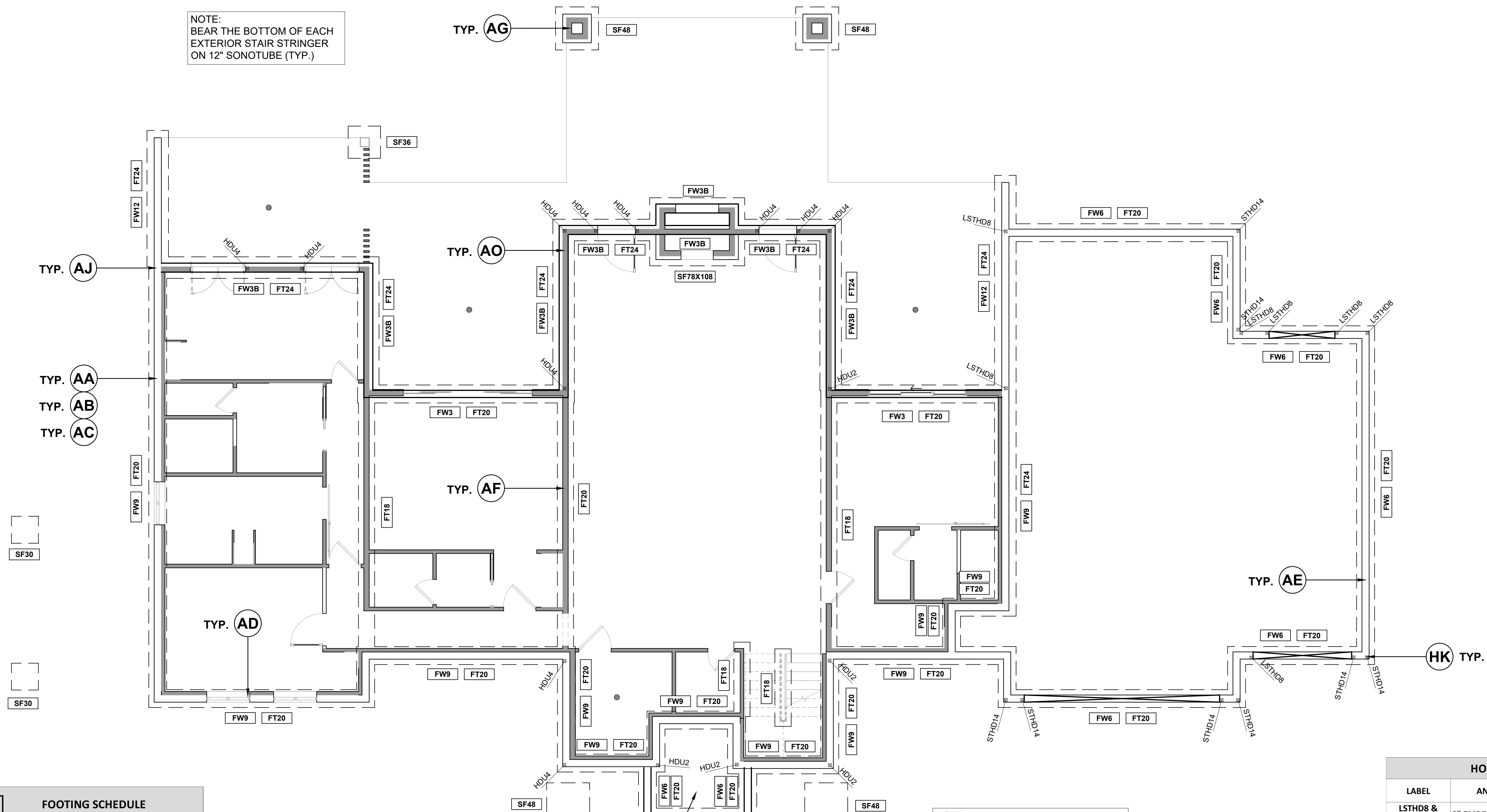
Revisions

1	12-16-2022	ANCHORS/ FOUNDATIONS
2	-	-
3	-	-
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5	-	-
6	-	-
7	-	-
8	-	-

FOUNDATIONS

S.O.O

NOTE:
BEAR THE BOTTOM OF EACH
EXTERIOR STAIR STRINGER
ON 12" SONOTUBE (TYP.)



NOTE:
POUR NON-SHRINK GROUT IN AREAS
WHERE TOPS OF CONCRETE WALLS
ARE UN-EVEN; ALL HOLD DOWNS AND
ANCHOR BOLTS SHALL HAVE FULL
EMBEDMENT INTO THE CONCRETE
(EXCLUDING GROUT THICKNESS)

SIMPSON WSWH 18X15 WITH
WSWH AB1 AND (2) #3 HAIRPINS;
SEE 1 / SD3 & 2 / SD4 FOR
ANCHORAGE INSTALLATION;
ANCHORS SHALL HAVE 11"
EMBEDMENT INTO FOOTING

SIMPSON WSWH 18X15 WITH
WSWH AB1 AND (2) #3 HAIRPINS;
SEE 1 / SD3 & 2 / SD4 FOR
ANCHORAGE INSTALLATION;
ANCHORS SHALL HAVE 11"
EMBEDMENT INTO FOOTING

- 1 FOUNDATION PLAN**
SCALE: 24X36 - 3/16" = 1'-0"
- NOTES:
- SILL PLATE ANCHORAGE SHALL BE 5/8" A.B. @ 32" O.C. (UNLESS NOTED OTHERWISE)
 - ANCHORAGE IS PERMITTED TO BE 5/8" TITEN HD ANCHORS @ 32" O.C.
 - TITEN HD ANCHORS SHALL HAVE 7" EMBEDMENT (MINIMUM, EXCLUDING SILL PLATE AND NON-SHRINK GROUT)
 - BLOCK OUT FOUNDATION WALLS FOR GARAGE DOOR OPENINGS
 - EPOXIED ANCHORS SHALL FOLLOW ALL INSPECTION AND MANUFACTURER REQUIREMENTS FOR DRILLING, CLEANING, AND INSTALLATION (BUILDER SHALL BE RESPONSIBLE FOR FOLLOWING JURISDICTION INSPECTION REQUIREMENTS)

FT #	FOOTING SCHEDULE			
LABEL	WIDTH	THICKNESS	REINFORCEMENT	
			LONGITUDINAL	TRANSVERSE
FT18	18"	10"	(2) #4	NA
FT20	20"	10"	(2) #4	NA
FT24	24"	10"	(2) #4	NA
SF30	30"	10"	(3) #4	(3) #4
SF36	36"	12"	(4) #4	(4) #4
SF48	48"	12"	(6) #4	(6) #4
SF78X108	78" X 108"	12"	(8) #5	(6) #5
SF48D	48"	18"	(4) #4 T & B	(4) #4 T & B

1. SEE GENERAL NOTES FOR MATERIAL REQUIREMENTS

FW #	FOUNDATION WALL SCHEDULE				
LABEL	MAX HEIGHT	WIDTH	REINFORCEMENT		
			VERTICAL	HORIZONTAL	FTG. DOWELS
FW3	3'	8"	#4 @ 32"	(3) #4	#4 @ 32"
FW3B	3'	10"	#4 @ 32"	(3) #4	#4 @ 32"
FW6	6'	8"	#4 @ 24"	(5) #4	#4 @ 24"
FW9	9'	8"	#4 @ 16"	(7) #4	#4 @ 16"
FW12	12'	8"	#5 @ 12"	(12) #4	#5 @ 12"

1. SEE GENERAL NOTES FOR MATERIAL REQUIREMENTS

HOLD DOWN SCHEDULE			
LABEL	ANCHOR	MINIMUM FASTENERS	MIN POST SIZE
LSTD8 & LSTDRJ	8" EMBEDDED STRAP	10d X 2-1/2"	(2) 2X
STHD14 & STHD14RJ	14" EMBEDDED STRAP	10d X 2-1/2"	(2) 2X
HDU2-SDS2.5	5/8" THREADED ROD - 9" EMBED. ⁴	1/4" X 2-1/2" SDS	(2) 2X
HDU4-SDS2.5	5/8" THREADED ROD - 14" EMBED. ⁴	1/4" X 2-1/2" SDS	(2) 2X
CS16	FLOOR-TO-FLOOR STRAP (11" END LENGTHS)	10d X 2-1/2"	(2) 2X
MST48	FLOOR-TO-FLOOR STRAP	10d X 2-1/2"	(2) 2X
MST60	FLOOR-TO-FLOOR STRAP	10d X 2-1/2"	(2) 2X

1. ALL HOLD-DOWN DESIGNATIONS ARE SIMPSON STRONG-TIE
2. EQUIVALENT HOLD-DOWNS ARE PERMITTED
3. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS
4. THREADED RODS SHALL BE F1554 GR. 36 INSTALLED WITH SIMPSON SET-3G EPOXY; FOLLOW MANUFACTURER'S INSTRUCTIONS FOR DRILLING, CLEANING AND INSTALLATION OF EPOXY ANCHORS



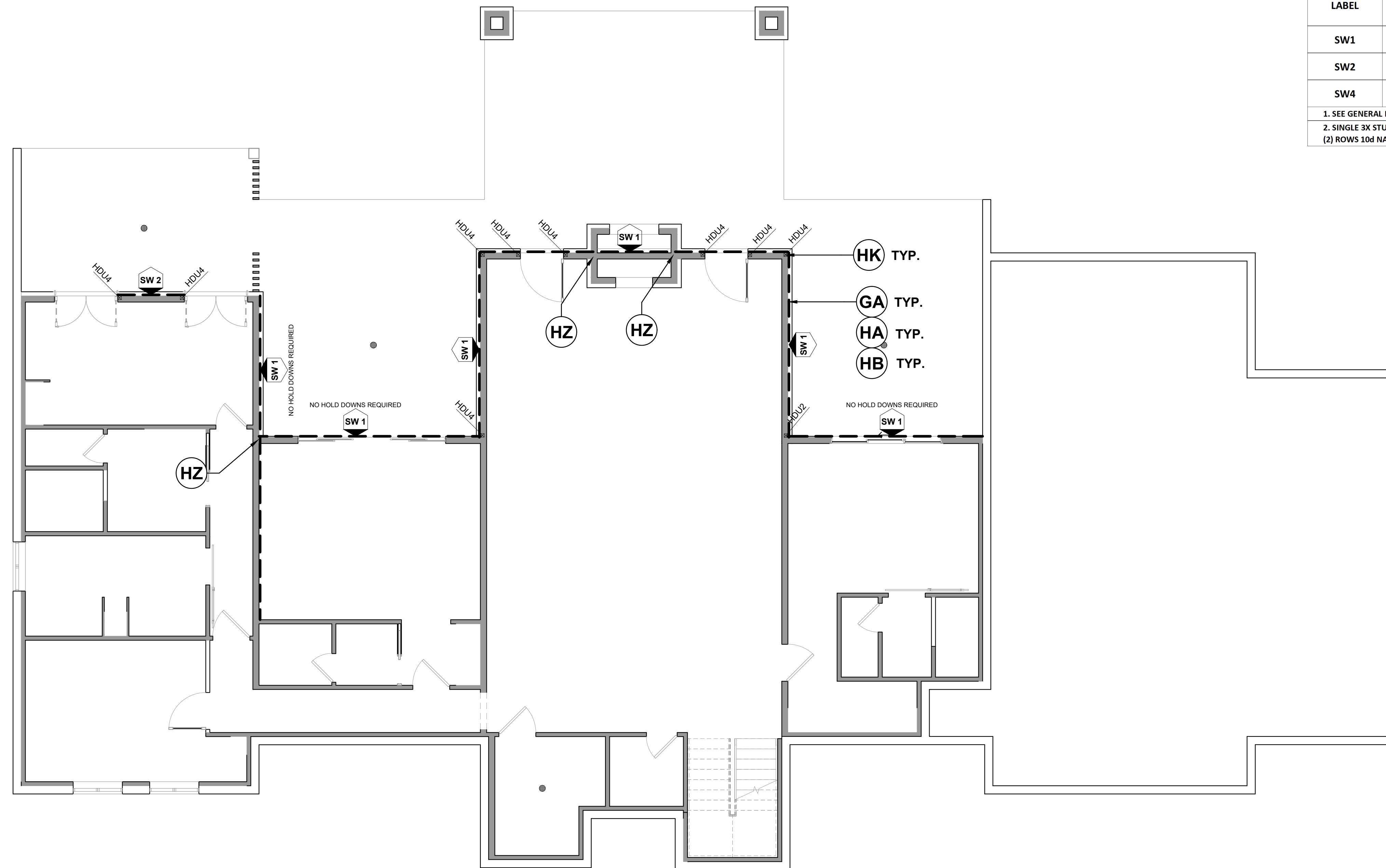
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SW#	SHEATHING	FASTENER			PANEL EDGE STUDS
		TYPE	PANEL EDGE SPACING	PANEL FIELD SPACING	
SW1	7/16" OSB	8d NAIL or 1-1/2" STAPLE	6" (NAIL) 3" (STAPLE)	12"	2X
SW2	7/16" OSB	8d NAIL	4"	12"	2X
SW4	7/16" OSB	8d NAIL	2"	12"	3X or (2) 2X ²

1. SEE GENERAL NOTES FOR MATERIAL REQUIREMENTS
2. SINGLE 3X STUDS AT ADJOINING PANEL EDGES MAY BE SUBSTITUTED WITH (2) 2X STUDS STITCH NAILED TOGETHER WITH (2) ROWS 10d NAILS @ 4" O.C. STAGGERED

HOLD DOWN SCHEDULE			
LABEL	ANCHOR	MINIMUM FASTENERS	MIN POST SIZE
LSTHD8 & LSTHDRJ	8" EMBEDDED STRAP	10d X 2-1/2"	(2) 2X
STHD14 & STHD14RJ	14" EMBEDDED STRAP	10d X 2-1/2"	(2) 2X
HDU2-SDS2.5	5/8" THREADED ROD - 9" EMBED.*	1/4" X 2-1/2" SDS	(2) 2X
HDU4-SDS2.5	5/8" THREADED ROD - 14" EMBED.*	1/4" X 2-1/2" SDS	(2) 2X
CS16	FLOOR-TO-FLOOR STRAP (11" END LENGTHS)	10d X 2-1/2"	(2) 2X
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1 BASEMENT WALL PLAN
SCALE: 24X36 - 3/16" = 1'-0"

- NOTES:
- SILL PLATE ANCHORAGE SHALL BE 5/8" A.B. @ 32" O.C. (UNLESS NOTED OTHERWISE)
 - ANCHORAGE IS PERMITTED TO BE 5/8" TITEN HD ANCHORS @ 32" O.C.
 - TITEN HD ANCHORS SHALL HAVE 7" EMBEDMENT (MINIMUM, EXCLUDING SILL PLATE AND NON-SHRINK GROUT)
 - EXTERIOR BEARING WALLS SHALL BE 2X6 DF STUD @ 16" O.C. (UNLESS NOTED OTHERWISE)
 - ALL EXTERIOR WALLS TO BE SHEATHED AS SW1 (UNLESS NOTED OTHERWISE)

Revisions	
1	12-16-2022 ANCHORS/ FOUNDATIONS
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BASEMENT WALLS

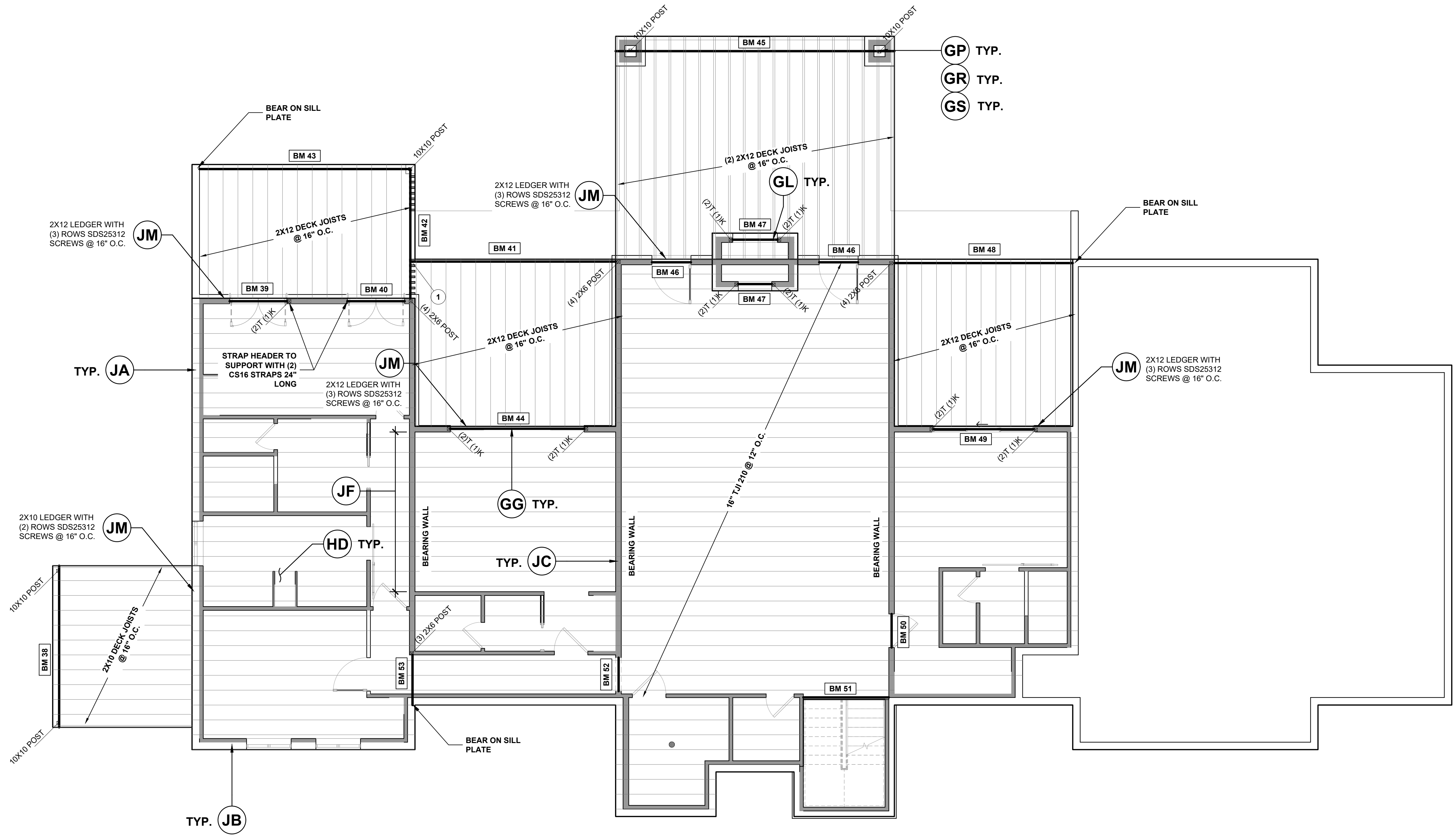


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BM #	BEAM SCHEDULE	#	HANGER
LABEL	SIZE	1	2
BM 1	(2) 2 X 6	-	-
BM 2	(3) 1-3/4 X 9-1/2 LVL	-	-
BM 3	(3) 2 X 8	-	-
BM 4	10 X 10	-	-
BM 5	10 X 10	-	-
BM 6	10 X 10	-	-
BM 7	(3) 2 X 6	-	-
BM 8	(3) 2 X 6	-	-
BM 9	10 X 10	-	-
BM 10	10 X 12	-	-
BM 11	10 X 12	-	-
BM 12	(3) 2 X 10	-	-
BM 13	(3) 2 X 8	-	-
BM 14	8 X 12	-	-
BM 15	8 X 12	-	-
BM 16	(2) 1-3/4 X 9-1/2 LVL	-	-
BM 17	10 X 14	-	-
BM 18	10 X 16	-	-
BM 19	10 X 16	-	-
BM 20	(3) 2 X 10	-	-
BM 21	(2) 1-3/4 X 11-7/8 LVL	-	-
BM 22	3-1/8 X 9 GLB	-	-
BM 23	10 X 20	-	-
BM 24	10 X 20	-	-
BM 25	10 X 20	6,503# (Cd = 115)	-
BM 26	10 X 20	-	-
BM 27	10 X 20	-	-
BM 28	10 X 20	6,214# (Cd = 115)	6,214# (Cd = 115)
BM 29	(3) 2 X 8	-	-
BM 30	(2) 2 X 6	-	-
BM 31	1-3/4 X 11-7/8 LVL	2,396# (Cd = 115)	-
BM 32	(3) 2 X 8	-	-
BM 33	(3) 2 X 10	2,469# (Cd = 115)	-
BM 34	(3) 2 X 10	-	-
BM 35	(2) 2 X 10	1,373# (Cd = 100)	-
BM 36	(3) 2 X 10	1,891# (Cd = 115)	-
BM 37	(3) 2 X 6	-	-
BM 38	10 X 10	-	-
BM 39	(3) 2 X 10	-	-
BM 40	(3) 2 X 8	-	-
BM 41	10 X 14	5,372# (Cd = 100)	-
BM 42	10 X 14	-	-
BM 43	10 X 14	-	-
BM 44	(3) 1-3/4 X 11-7/8 LVL	-	-
BM 45	10 X 20	-	-
BM 46	(3) 2 X 8	-	-
BM 47	(3) 2 X 10	-	-
BM 48	10 X 12	-	-
BM 49	(2) 1-3/4 X 9-1/2 LVL	-	-
BM 50	(3) 2 X 6	-	-
BM 51	1-3/4 X 16 LVL	-	-
BM 52	(3) 2 X 6	-	-
BM 53	1-3/4 X 16 LVL	-	-
BM 54	(2) 1-3/4 X 11-7/8 LVL	-	-

DIAPHRAGM SCHEDULE					
TYPE	SHEATHING	SPAN RATING	FASTENER		
			TYPE	PANEL EDGE SPACING	PANEL FIELD SPACING
ROOF	7/16 OSB	24/16	8d NAIL or 1-1/2" STAPLE	6"	12"
FLOOR	23/32 OSB	48/24	8d NAIL or EQUIVALENT	6"	12"

1. SEE GENERAL NOTES FOR MATERIAL REQUIREMENTS



1 MAIN FLOOR FRAMING PLAN

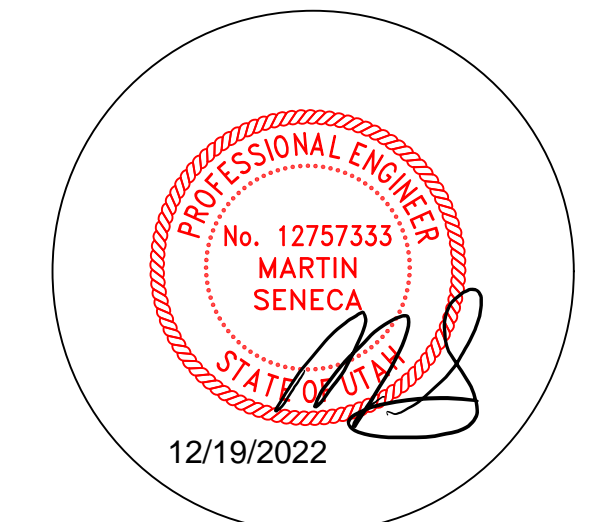
SCALE: 24X36 - 3/16" = 1'-0"

- NOTES:
- ALL HEADERS SHALL BE SUPPORTED BY (1) TRIMMER (1) KING (UNLESS NOTED OTHERWISE)
 - ALL BEAMS AND GIRDER TRUSSES SHALL BE SUPPORTED BY (2) 2X POST (UNLESS NOTED OTHERWISE)
 - FLOOR SYSTEM SHALL BE 16" TJI 210 @ 16" O.C. (UNLESS NOTED OTHERWISE)
 - FLOOR BEAMS ARE DESIGNED TO BE FLUSH (UNLESS NOTED OTHERWISE)

Revisions

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7	-	-
8	-	-

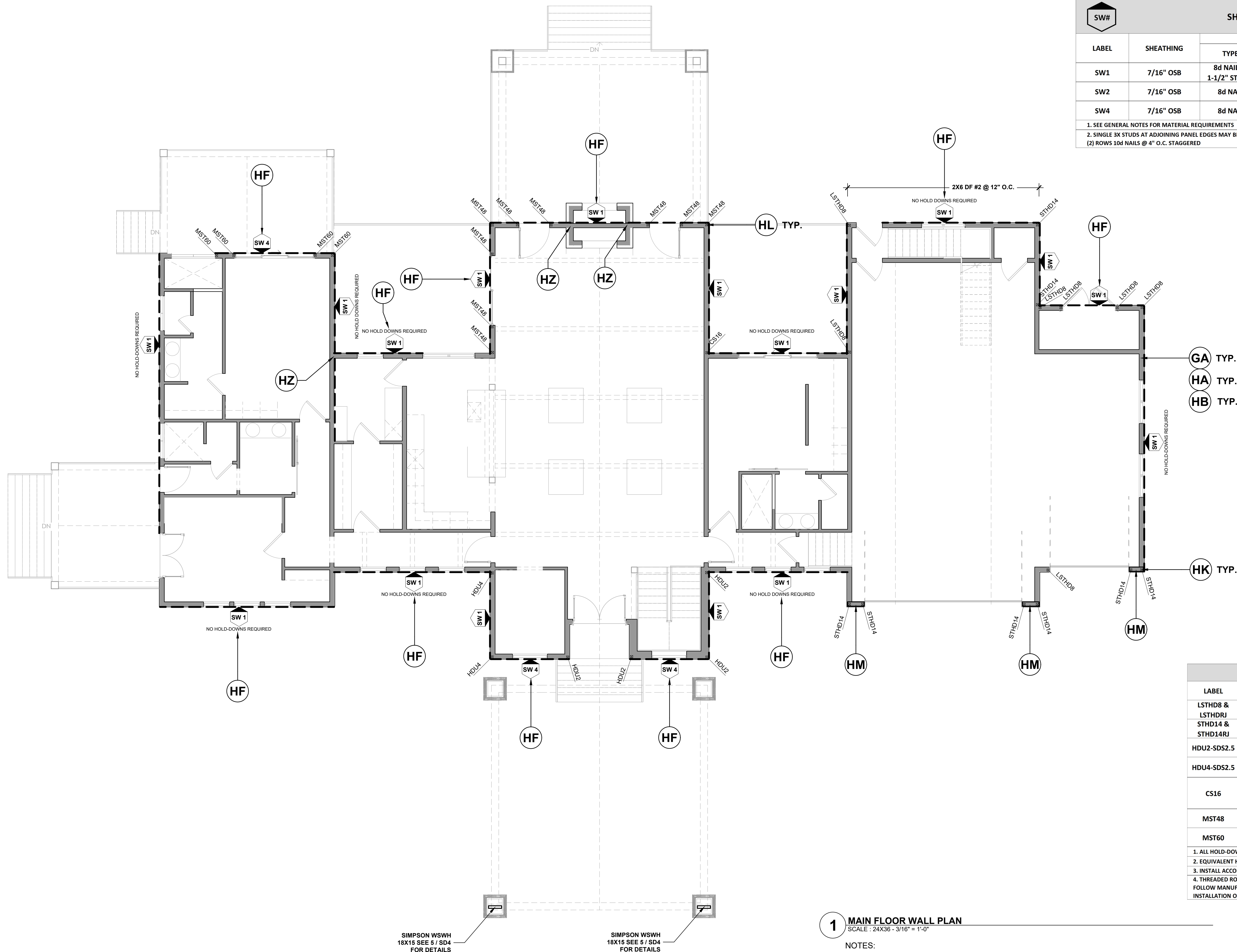
MAIN FLOOR FRAMING



TI DYPHIBANE
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1188 SOUTH OLD TRAPPERS LOOP ROAD
HUNTSVILLE, UT 84317

SW#	SHEATHING	FASTENER			PANEL EDGE STUDS
		TYPE	PANEL EDGE SPACING	PANEL FIELD SPACING	
SW1	7/16" OSB	8d NAIL or 1-1/2" STAPLE	6" (NAIL) 3" (STAPLE)	12"	2X
SW2	7/16" OSB	8d NAIL	4"	12"	2X
SW4	7/16" OSB	8d NAIL	2"	12"	3X or (2) 2X ²

1. SEE GENERAL NOTES FOR MATERIAL REQUIREMENTS
2. SINGLE 3X STUDS AT ADJOINING PANEL EDGES MAY BE SUBSTITUTED WITH (2) 2X STUDS STITCH NAILED TOGETHER WITH (2) ROWS 10d NAILS @ 4" O.C. STAGGERED



HOLD DOWN SCHEDULE			
LABEL	ANCHOR	MINIMUM FASTENERS	MIN POST SIZE
LSTHD8 & LSTHDRJ	8" EMBEDDED STRAP	10d X 2-1/2"	(2) 2X
STHD14 & STHD14RJ	14" EMBEDDED STRAP	10d X 2-1/2"	(2) 2X
HDU2-SDS2.5	5/8" THREADED ROD - 9" EMBED. ⁴	1/4" X 2-1/2" SDS	(2) 2X
HDU4-SDS2.5	5/8" THREADED ROD - 14" EMBED. ⁴	1/4" X 2-1/2" SDS	(2) 2X
CS16	FLOOR-TO-FLOOR STRAP (11" END LENGTHS)	10d X 2-1/2"	(2) 2X
MST48	FLOOR-TO-FLOOR STRAP	10d X 2-1/2"	(2) 2X
MST60	FLOOR-TO-FLOOR STRAP	10d X 2-1/2"	(2) 2X

1. ALL HOLD-DOWN DESIGNATIONS ARE SIMPSON STRONG-TIE
2. EQUIVALENT HOLD-DOWNS ARE PERMITTED
3. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS
4. THREADED RODS SHALL BE F1554 GR. 36 INSTALLED WITH SIMPSON SET-3G EPOXY; FOLLOW MANUFACTURER'S INSTRUCTIONS FOR DRILLING, CLEANING AND INSTALLATION OF EPOXY ANCHORS

1 MAIN FLOOR WALL PLAN
SCALE: 24X36 - 3/16" = 1'-0"

NOTES:
1. SILL PLATE ANCHORAGE SHALL BE 5/8" A.B. @ 32" O.C. (UNLESS NOTED OTHERWISE)
1.1. ANCHORAGE IS PERMITTED TO BE 5/8" TITEN HD ANCHORS @ 32" O.C.
1.2. TITEN HD ANCHORS SHALL HAVE 7" EMBEDMENT (MINIMUM, EXCLUDING SILL PLATE AND NON-SHRINK GROUT)
2. SOLE PLATE ANCHORAGE SHALL BE 10d NAILS @ 6" O.C. (UNLESS NOTED OTHERWISE)
3. EXTERIOR WALLS SHALL BE 2X6 DF STUD @ 16" O.C. (UNLESS NOTED OTHERWISE)
4. ALL EXTERIOR WALLS TO BE SHEATHED AS SW1 (UNLESS NOTED OTHERWISE)

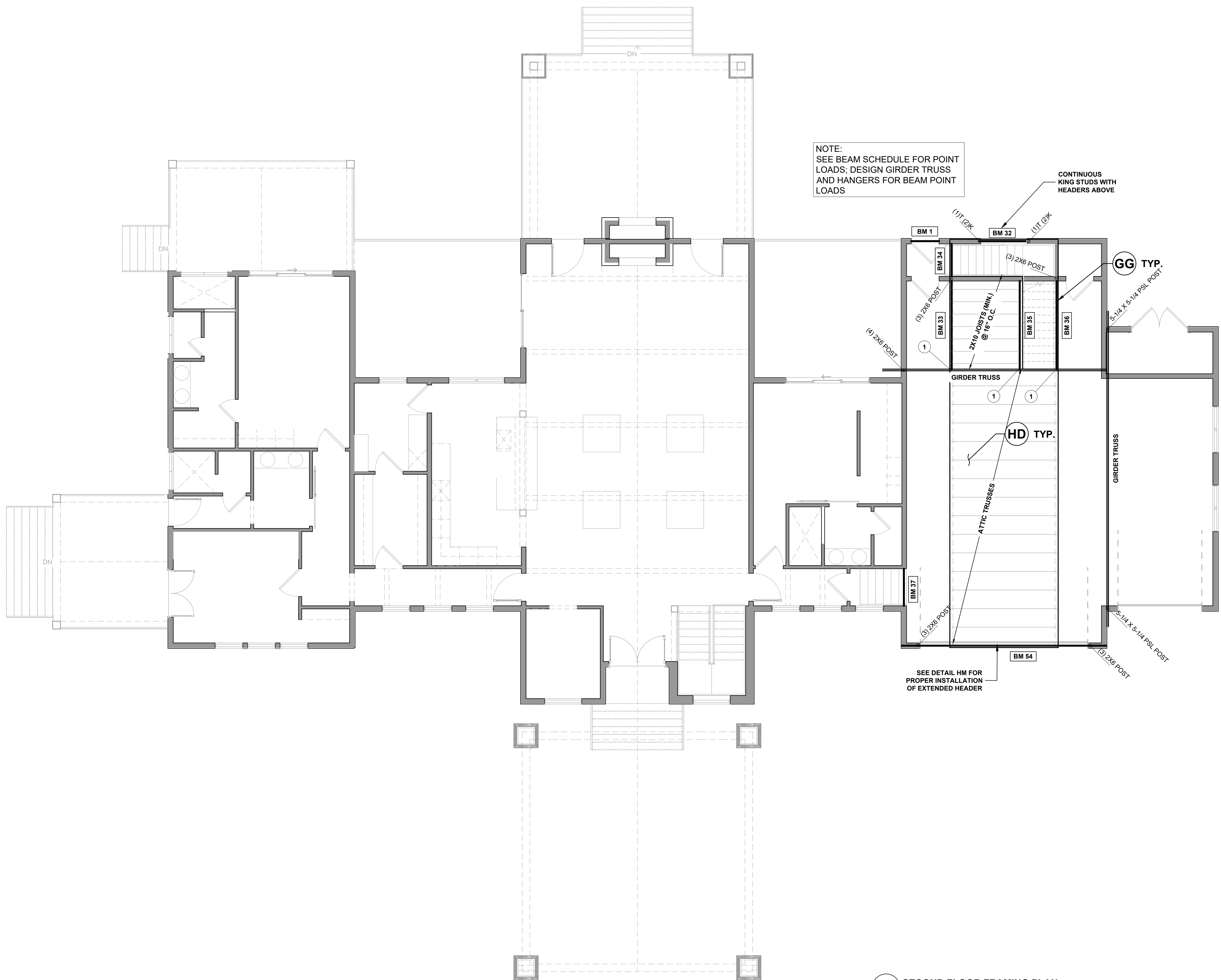
Revisions	
1	12-16-2022 ANCHORS/ FOUNDATIONS
2	-
3	-
4	-
5	-
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8	-

MAIN FLOOR WALLS

S1.1



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BM #	BEAM SCHEDULE	#	HANGER
LABEL	SIZE	1	2
BM 1	(2) 2 X 6	-	-
BM 2	(3) 1-3/4 X 9-1/2 LVL	-	-
BM 3	(3) 2 X 8	-	-
BM 4	10 X 10	-	-
BM 5	10 X 10	-	-
BM 6	10 X 10	-	-
BM 7	(3) 2 X 6	-	-
BM 8	(3) 2 X 6	-	-
BM 9	10 X 10	-	-
BM 10	10 X 12	-	-
BM 11	10 X 12	-	-
BM 12	(3) 2 X 10	-	-
BM 13	(3) 2 X 8	-	-
BM 14	8 X 12	-	-
BM 15	8 X 12	-	-
BM 16	(2) 1-3/4 X 9-1/2 LVL	-	-
BM 17	10 X 14	-	-
BM 18	10 X 16	-	-
BM 19	10 X 16	-	-
BM 20	(3) 2 X 10	-	-
BM 21	(2) 1-3/4 X 11-7/8 LVL	-	-
BM 22	3-1/8 X 9 GLB	-	-
BM 23	10 X 20	-	-
BM 24	10 X 20	-	-
BM 25	10 X 20	6,503# (Cd = 115)	-
BM 26	10 X 20	-	-
BM 27	10 X 20	-	-
BM 28	10 X 20	6,214# (Cd = 115)	6,214# (Cd = 115)
BM 29	(3) 2 X 8	-	-
BM 30	(2) 2 X 6	-	-
BM 31	1-3/4 X 11-7/8 LVL	2,396# (Cd = 115)	-
BM 32	(3) 2 X 8	-	-
BM 33	(3) 2 X 10	2,469# (Cd = 115)	-
BM 34	(3) 2 X 10	-	-
BM 35	(2) 2 X 10	1,373# (Cd = 100)	-
BM 36	(3) 2 X 10	1,891# (Cd = 115)	-
BM 37	(3) 2 X 6	-	-
BM 38	10 X 10	-	-
BM 39	(3) 2 X 10	-	-
BM 40	(3) 2 X 8	-	-
BM 41	10 X 14	5,372# (Cd = 100)	-
BM 42	10 X 14	-	-
BM 43	10 X 14	-	-
BM 44	(3) 1-3/4 X 11-7/8 LVL	-	-
BM 45	10 X 20	-	-
BM 46	(3) 2 X 8	-	-
BM 47	(3) 2 X 10	-	-
BM 48	10 X 12	-	-
BM 49	(2) 1-3/4 X 9-1/2 LVL	-	-
BM 50	(3) 2 X 6	-	-
BM 51	1-3/4 X 16 LVL	-	-
BM 52	(3) 2 X 6	-	-
BM 53	1-3/4 X 16 LVL	-	-
BM 54	(2) 1-3/4 X 11-7/8 LVL	-	-

TYPE	SHEATHING	SPAN RATING	FASTENER		
			TYPE	PANEL EDGE SPACING	PANEL FIELD SPACING
ROOF	7/16 OSB	24/16	8d NAIL or 1-1/2" STAPLE	6"	12"
FLOOR	23/32 OSB	48/24	8d NAIL or EQUIVALENT	6"	12"

1. SEE GENERAL NOTES FOR MATERIAL REQUIREMENTS

1 SECOND FLOOR FRAMING PLAN
SCALE: 24X36 - 3/16" = 1'-0"

- NOTES:
- ALL HEADERS SHALL BE SUPPORTED BY (1) TRIMMER (1) KING (UNLESS NOTED OTHERWISE)
 - ALL BEAMS AND GIRDER TRUSSES SHALL BE SUPPORTED BY (2) 2X POST (UNLESS NOTED OTHERWISE)
 - FLOOR BEAMS ARE DESIGNED TO BE FLUSH (UNLESS NOTED OTHERWISE)

Revisions	
△	12-16-2022 ANCHORS/ FOUNDATIONS
△	-
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△	-
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△	-

SECOND FLOOR FRAMING



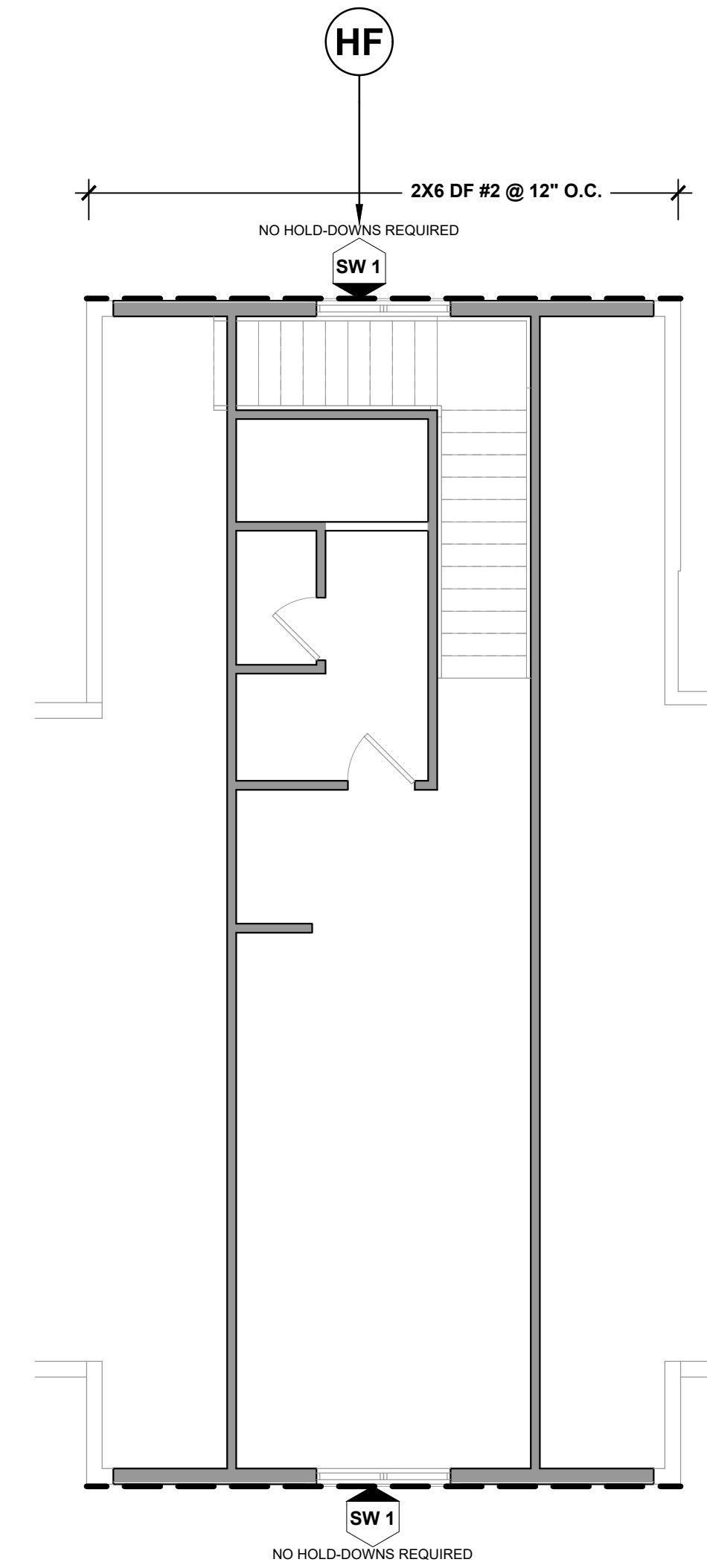
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HUNTSVILLE, UT 84317

SW#	SHEATHING	FASTENER			PANEL EDGE STUDS
		TYPE	PANEL EDGE SPACING	PANEL FIELD SPACING	
SW1	7/16" OSB	8d NAIL or 1-1/2" STAPLE	6" (NAIL) 3" (STAPLE)	12"	2X
SW2	7/16" OSB	8d NAIL	4"	12"	2X
SW4	7/16" OSB	8d NAIL	2"	12"	3X or (2) 2X ²

1. SEE GENERAL NOTES FOR MATERIAL REQUIREMENTS
2. SINGLE 3X STUDS AT ADJOINING PANEL EDGES MAY BE SUBSTITUTED WITH (2) 2X STUDS STITCH NAILED TOGETHER WITH (2) ROWS 10d NAILS @ 4" O.C. STAGGERED

LABEL	ANCHOR	MINIMUM FASTENERS	MIN POST SIZE
LSTHD8 & LSTHDRJ	8" EMBEDDED STRAP	10d X 2-1/2"	(2) 2X
STHD14 & STHD14RJ	14" EMBEDDED STRAP	10d X 2-1/2"	(2) 2X
HDU2-SDS2.5	5/8" THREADED ROD - 9" EMBED, ⁴	1/4" X 2-1/2" SDS	(2) 2X
HDU4-SDS2.5	5/8" THREADED ROD - 14" EMBED, ⁴	1/4" X 2-1/2" SDS	(2) 2X
CS16	FLOOR-TO-FLOOR STRAP (11" END LENGTHS)	10d X 2-1/2"	(2) 2X
MST48	FLOOR-TO-FLOOR STRAP	10d X 2-1/2"	(2) 2X
MST60	FLOOR-TO-FLOOR STRAP	10d X 2-1/2"	(2) 2X

1. ALL HOLD-DOWN DESIGNATIONS ARE SIMPSON STRONG-TIE
2. EQUIVALENT HOLD-DOWNS ARE PERMITTED
3. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS
4. THREADED RODS SHALL BE F1554 GR. 36 INSTALLED WITH SIMPSON SET-3G EPOXY; FOLLOW MANUFACTURER'S INSTRUCTIONS FOR DRILLING, CLEANING AND INSTALLATION OF EPOXY ANCHORS



1 SECOND FLOOR WALL PLAN
SCALE : 24X36 - 3/16" = 1'-0"

- NOTES:
- SOLE PLATE ANCHORAGE SHALL BE 10d NAILS @ 6" O.C. (UNLESS NOTED OTHERWISE)
 - EXTERIOR WALLS SHALL BE 2X6 DF STUD @ 16" O.C. (UNLESS NOTED OTHERWISE)
 - ALL EXTERIOR WALLS TO BE SHEATHED AS SW1 (UNLESS NOTED OTHERWISE)

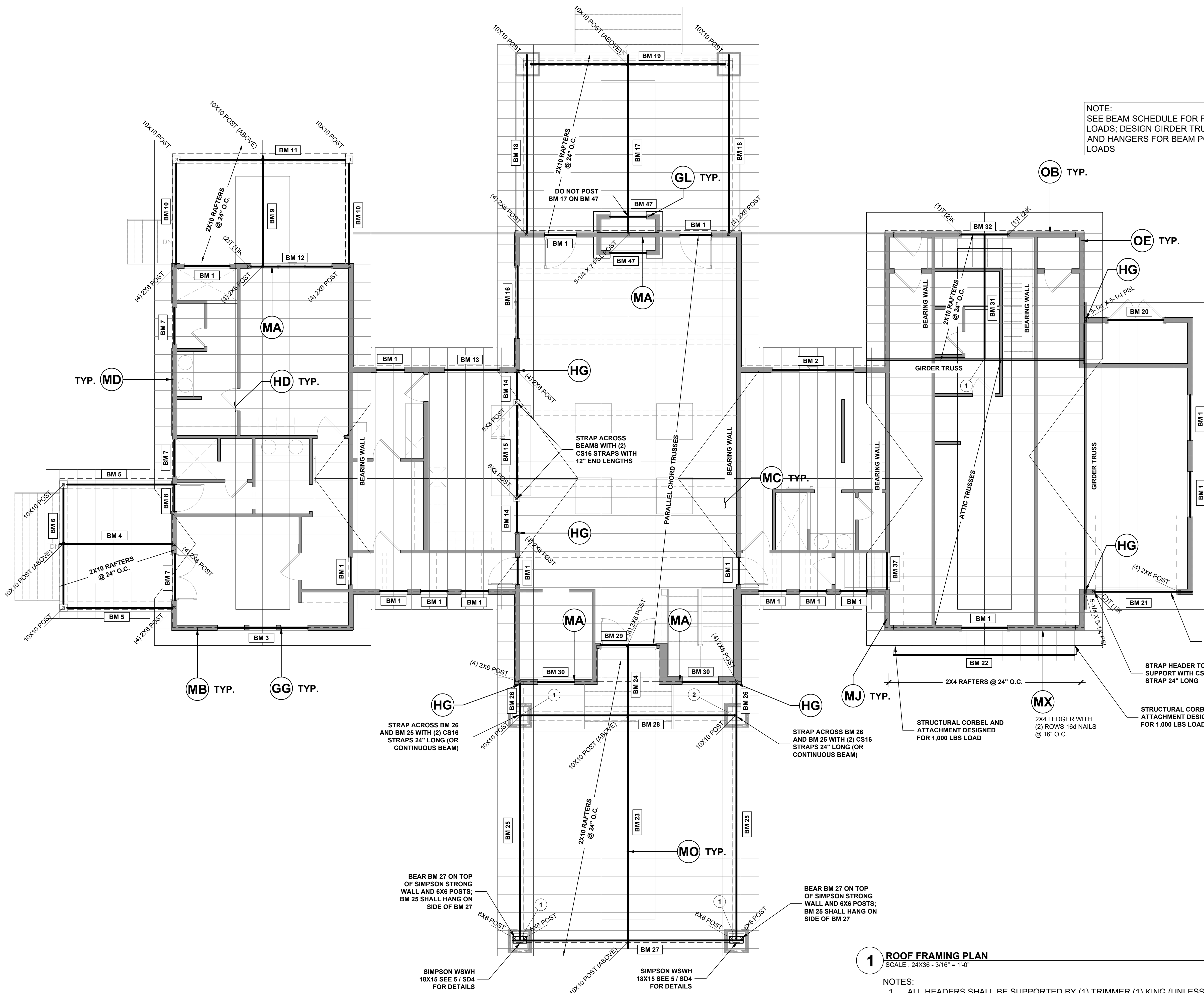
Revisions	
1	12-16-2022 ANCHORS/ FOUNDATIONS
2	-
3	-
4	-
5	-
6	-
7	-
8	-

SECOND FLOOR WALLS

S2.1



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NOTE:
SEE BEAM SCHEDULE FOR POINT LOADS; DESIGN GIRDER TRUSS AND HANGERS FOR BEAM POINT LOADS

BM #	BEAM SCHEDULE	#	HANGER
LABEL	SIZE	1	2
BM 1	(2) 2 X 6	-	-
BM 2	(3) 1-3/4 X 9-1/2 LVL	-	-
BM 3	(3) 2 X 8	-	-
BM 4	10 X 10	-	-
BM 5	10 X 10	-	-
BM 6	10 X 10	-	-
BM 7	(3) 2 X 6	-	-
BM 8	(3) 2 X 6	-	-
BM 9	10 X 10	-	-
BM 10	10 X 12	-	-
BM 11	10 X 12	-	-
BM 12	(3) 2 X 10	-	-
BM 13	(3) 2 X 8	-	-
BM 14	8 X 12	-	-
BM 15	8 X 12	-	-
BM 16	(2) 1-3/4 X 9-1/2 LVL	-	-
BM 17	10 X 14	-	-
BM 18	10 X 16	-	-
BM 19	10 X 16	-	-
BM 20	(3) 2 X 10	-	-
BM 21	(2) 1-3/4 X 11-7/8 LVL	-	-
BM 22	3-1/8 X 9 GLB	-	-
BM 23	10 X 20	-	-
BM 24	10 X 20	-	-
BM 25	10 X 20	6,503# (Cd = 115)	-
BM 26	10 X 20	-	-
BM 27	10 X 20	-	-
BM 28	10 X 20	6,214# (Cd = 115)	6,214# (Cd = 115)
BM 29	(3) 2 X 8	-	-
BM 30	(2) 2 X 6	-	-
BM 31	1-3/4 X 11-7/8 LVL	2,396# (Cd = 115)	-
BM 32	(3) 2 X 8	-	-
BM 33	(3) 2 X 10	2,469# (Cd = 115)	-
BM 34	(3) 2 X 10	-	-
BM 35	(2) 2 X 10	1,373# (Cd = 100)	-
BM 36	(3) 2 X 10	1,891# (Cd = 115)	-
BM 37	(3) 2 X 6	-	-
BM 38	10 X 10	-	-
BM 39	(3) 2 X 10	-	-
BM 40	(3) 2 X 8	-	-
BM 41	10 X 14	5,372# (Cd = 100)	-
BM 42	10 X 14	-	-
BM 43	10 X 14	-	-
BM 44	(3) 1-3/4 X 11-7/8 LVL	-	-
BM 45	10 X 20	-	-
BM 46	(3) 2 X 8	-	-
BM 47	(3) 2 X 10	-	-
BM 48	10 X 12	-	-
BM 49	(2) 1-3/4 X 9-1/2 LVL	-	-
BM 50	(3) 2 X 6	-	-
BM 51	1-3/4 X 16 LVL	-	-
BM 52	(3) 2 X 6	-	-
BM 53	1-3/4 X 16 LVL	-	-
BM 54	(2) 1-3/4 X 11-7/8 LVL	-	-

SEE DETAIL HM FOR PROPER INSTALLATION OF EXTENDED HEADER

STRAP HEADER TO SUPPORT WITH CS16 STRAP 24" LONG

STRUCTURAL CORBEL AND ATTACHMENT DESIGNED FOR 1,000 LBS LOAD

DIAPHRAGM SCHEDULE					
TYPE	SHEATHING	SPAN RATING	FASTENER TYPE	PANEL EDGE SPACING	PANEL FIELD SPACING
ROOF	7/16 OSB	24/16	8d NAIL @ 1-1/2" STAPLE	6"	12"
FLOOR	23/32 OSB	48/24	8d NAIL @ EQUIVALENT	6"	12"

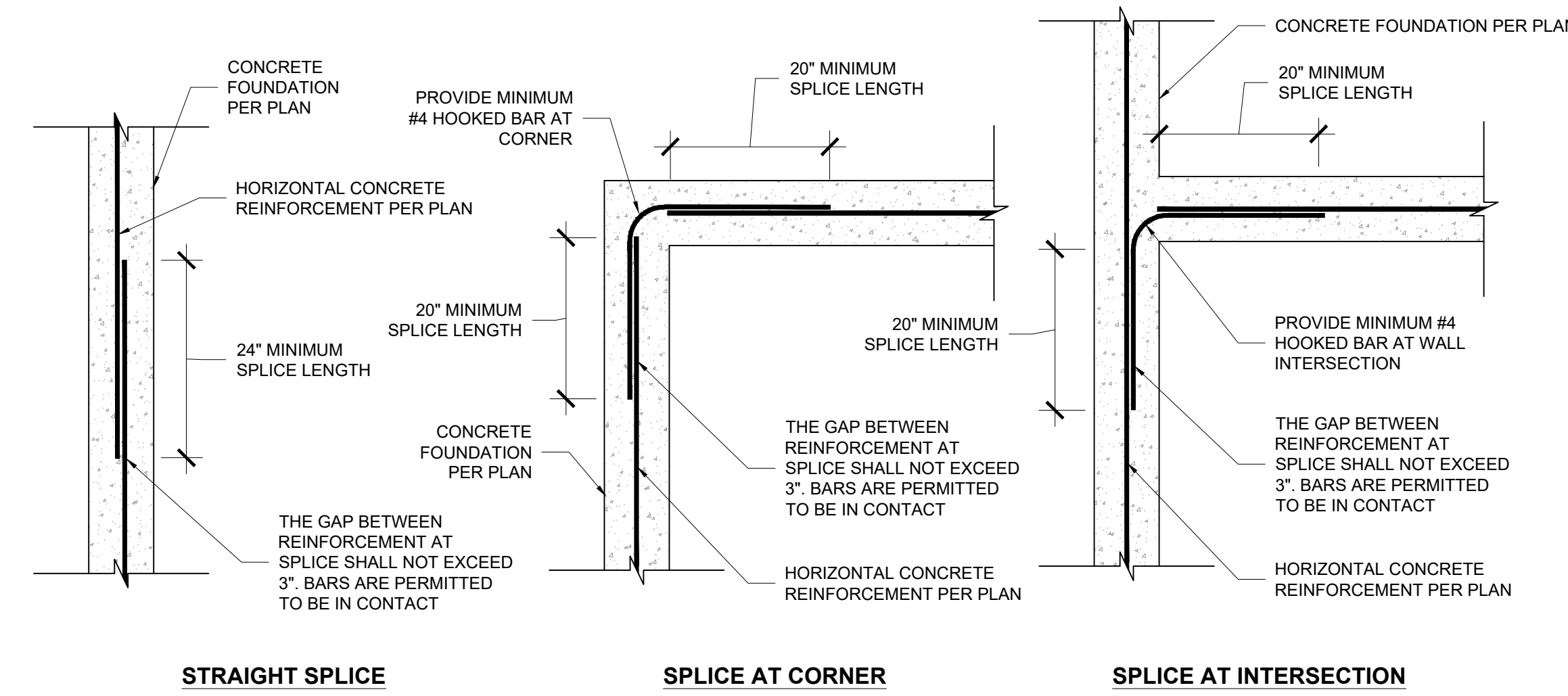
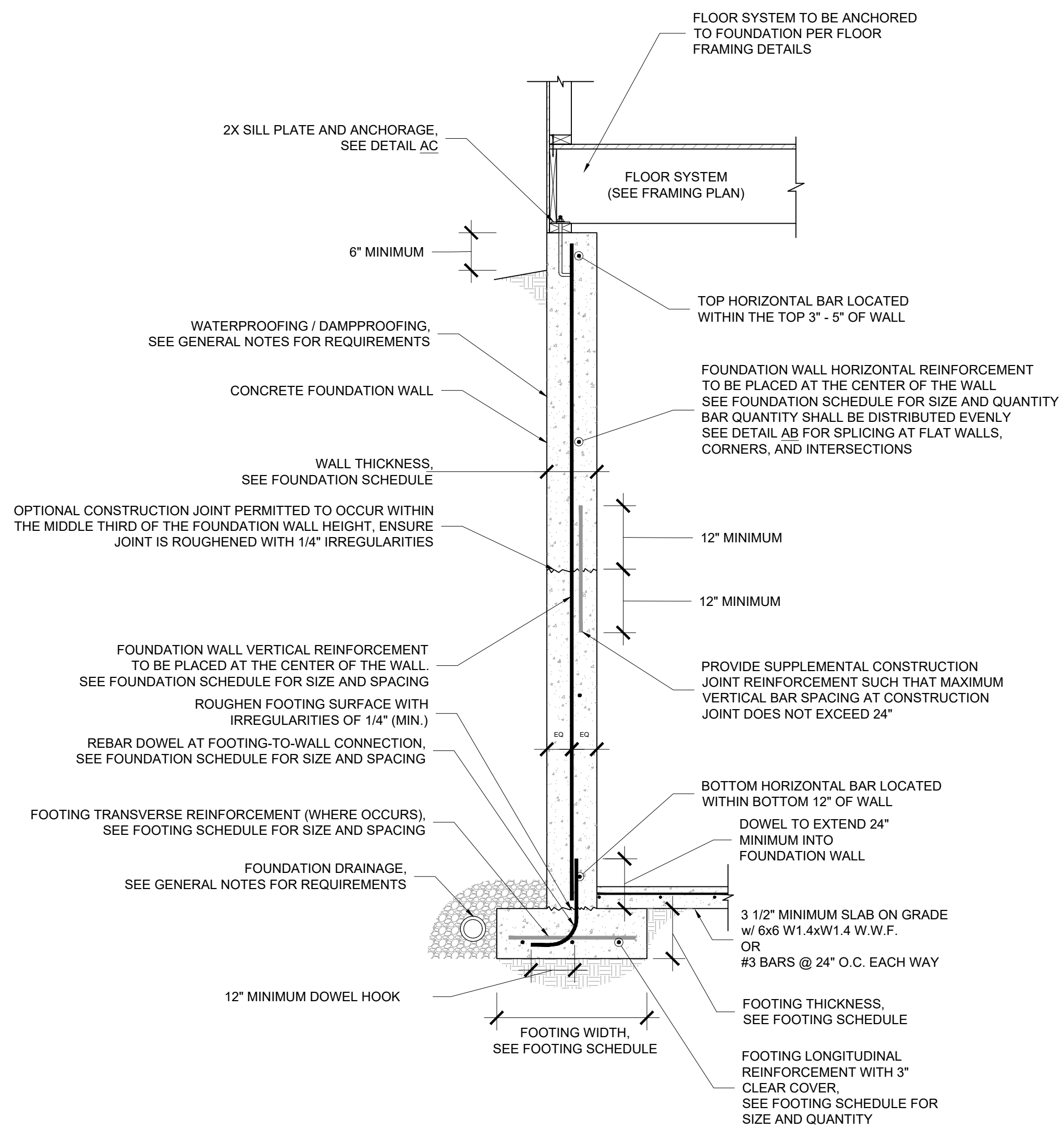
1. SEE GENERAL NOTES FOR MATERIAL REQUIREMENTS

- 1 ROOF FRAMING PLAN**
SCALE: 24X36 - 3/16" = 1'-0"
- NOTES:
- ALL HEADERS SHALL BE SUPPORTED BY (1) TRIMMER (1) KING (UNLESS NOTED OTHERWISE)
 - ALL BEAMS AND GIRDER TRUSSES SHALL BE SUPPORTED BY (2) 2X POST (UNLESS NOTED OTHERWISE)
 - ROOF SYSTEM SHALL BE PRE-MANUFACTURED ROOF TRUSSES @ 24" O.C. (UNLESS NOTED OTHERWISE)

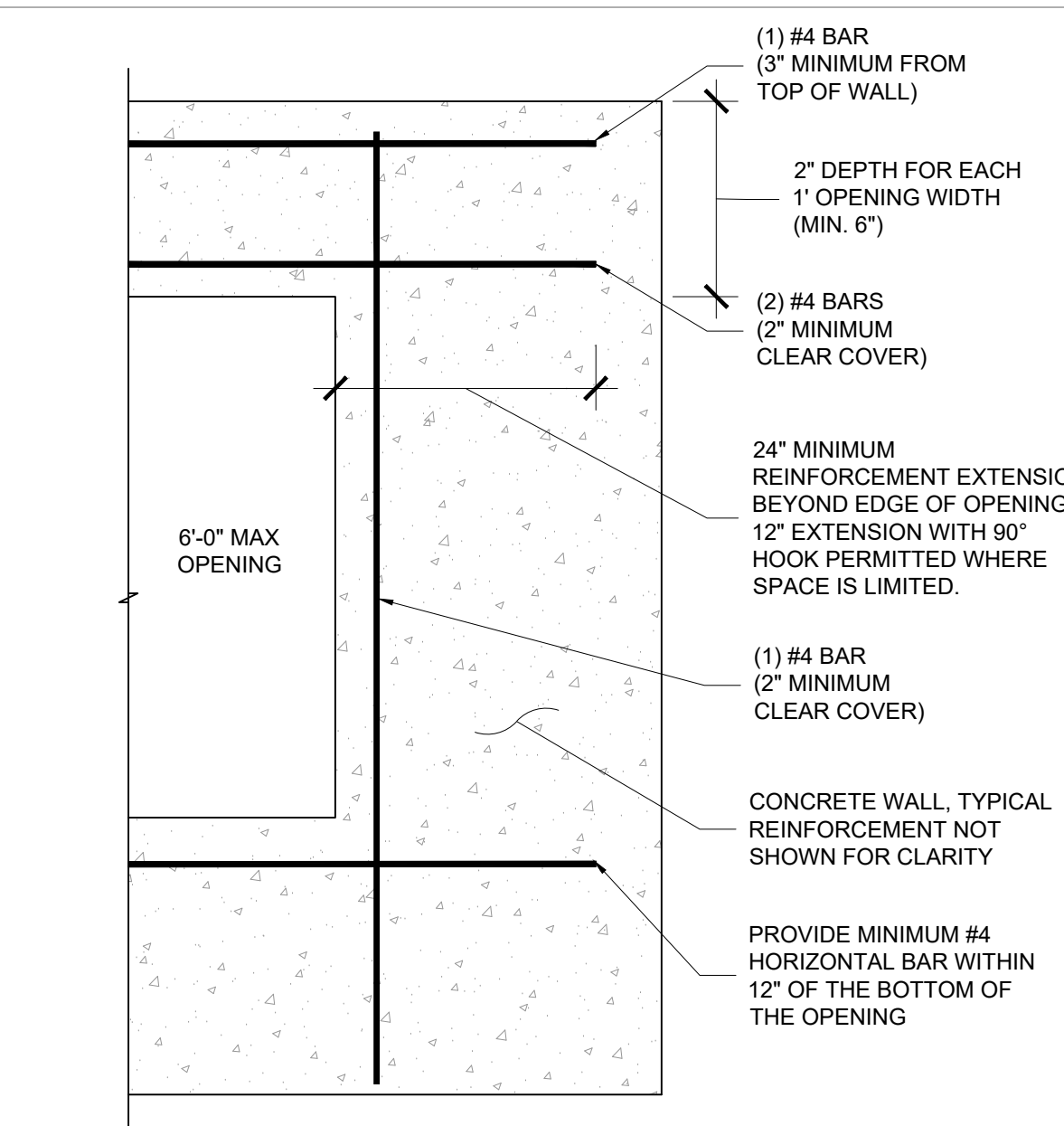
Revisions	
1	12-16-2022 ANCHORS/ FOUNDATIONS
2	-
3	-
4	-
5	-
6	-
7	-
8	-

ROOF FRAMING

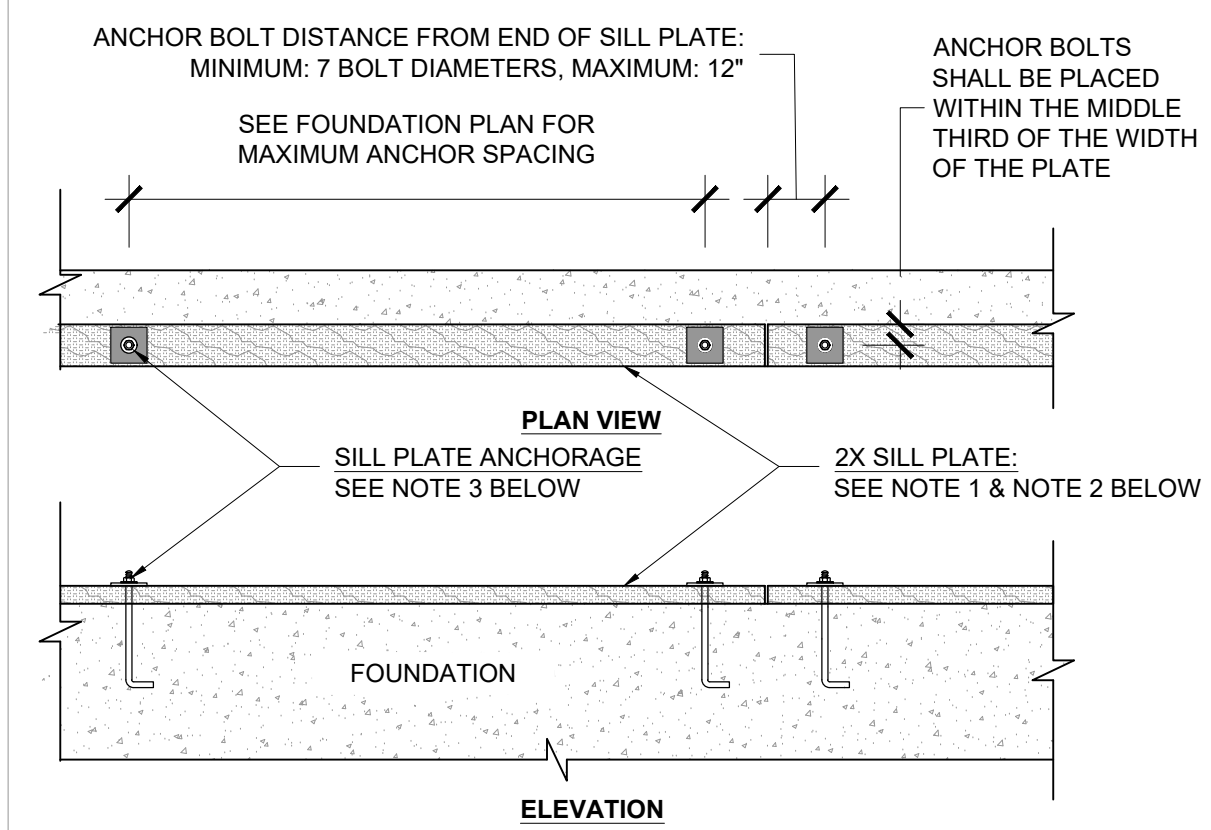
- NOTES:
- BACKFILL SHALL NOT BE PLACED AGAINST FOUNDATION WALLS UNTIL THE WALLS HAVE CURED TO ACHIEVE THEIR FULL 28-DAY STRENGTH.
 - FOUNDATION WALLS WITH MORE THAN 48" OF UNBALANCED SOIL SHALL BE ANCHORED TO THE FLOOR ABOVE PRIOR TO BACKFILL BEING PLACED AGAINST THE WALL.



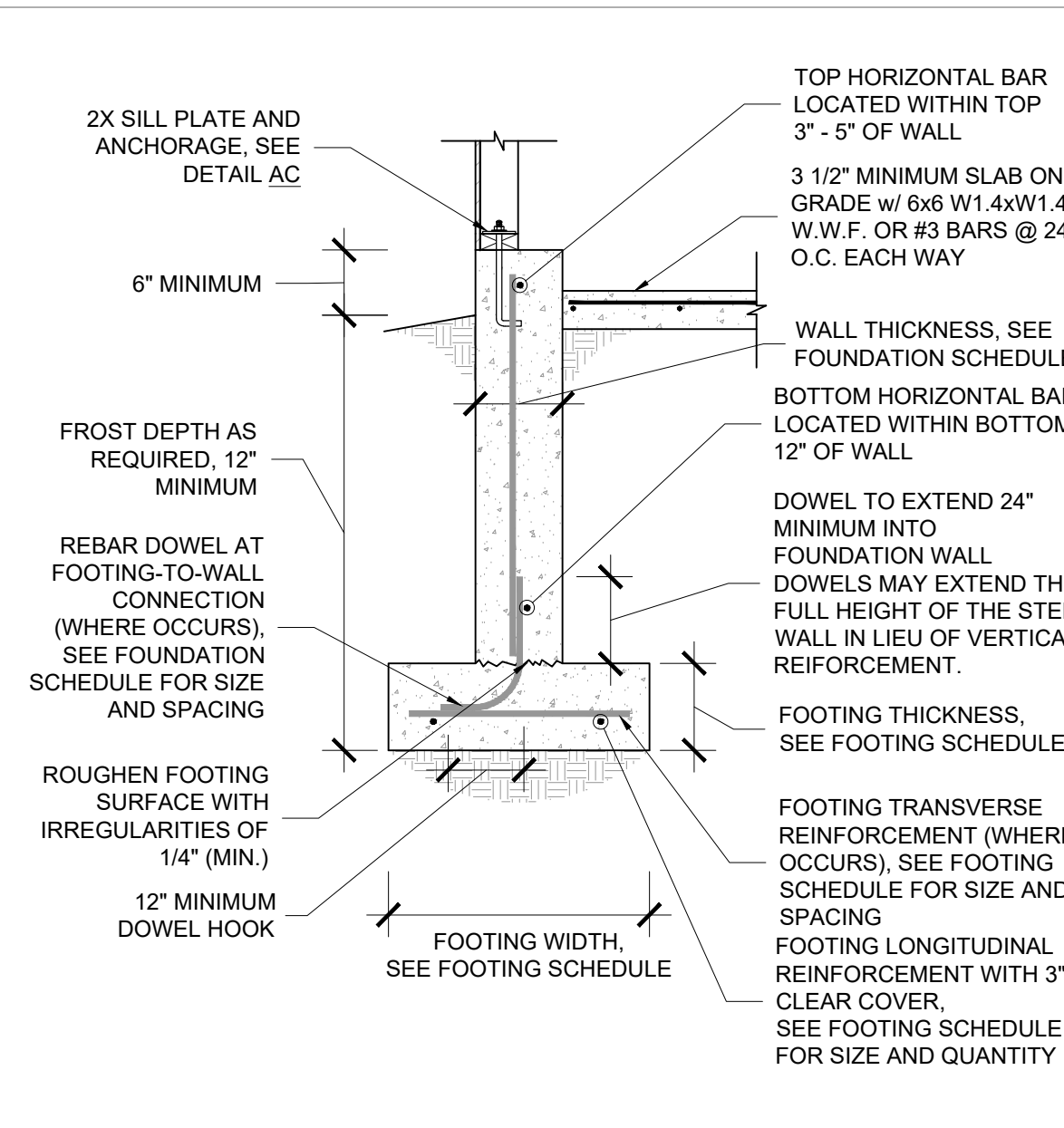
AB REINFORCEMENT SPLICES AT FOUNDATIONS
SCALE : NTS



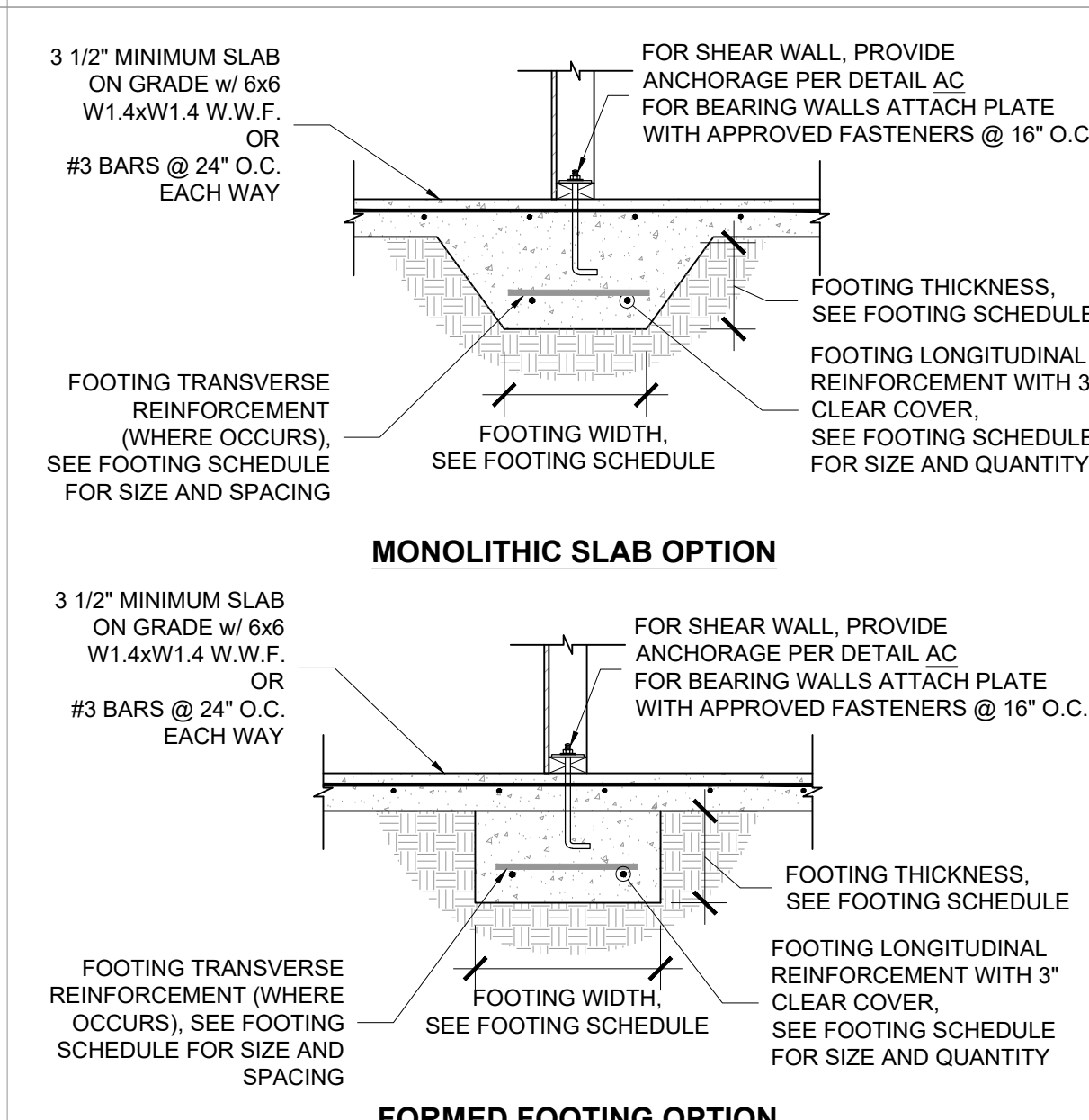
AD CONCRETE WALL LINTEL
SCALE : NTS



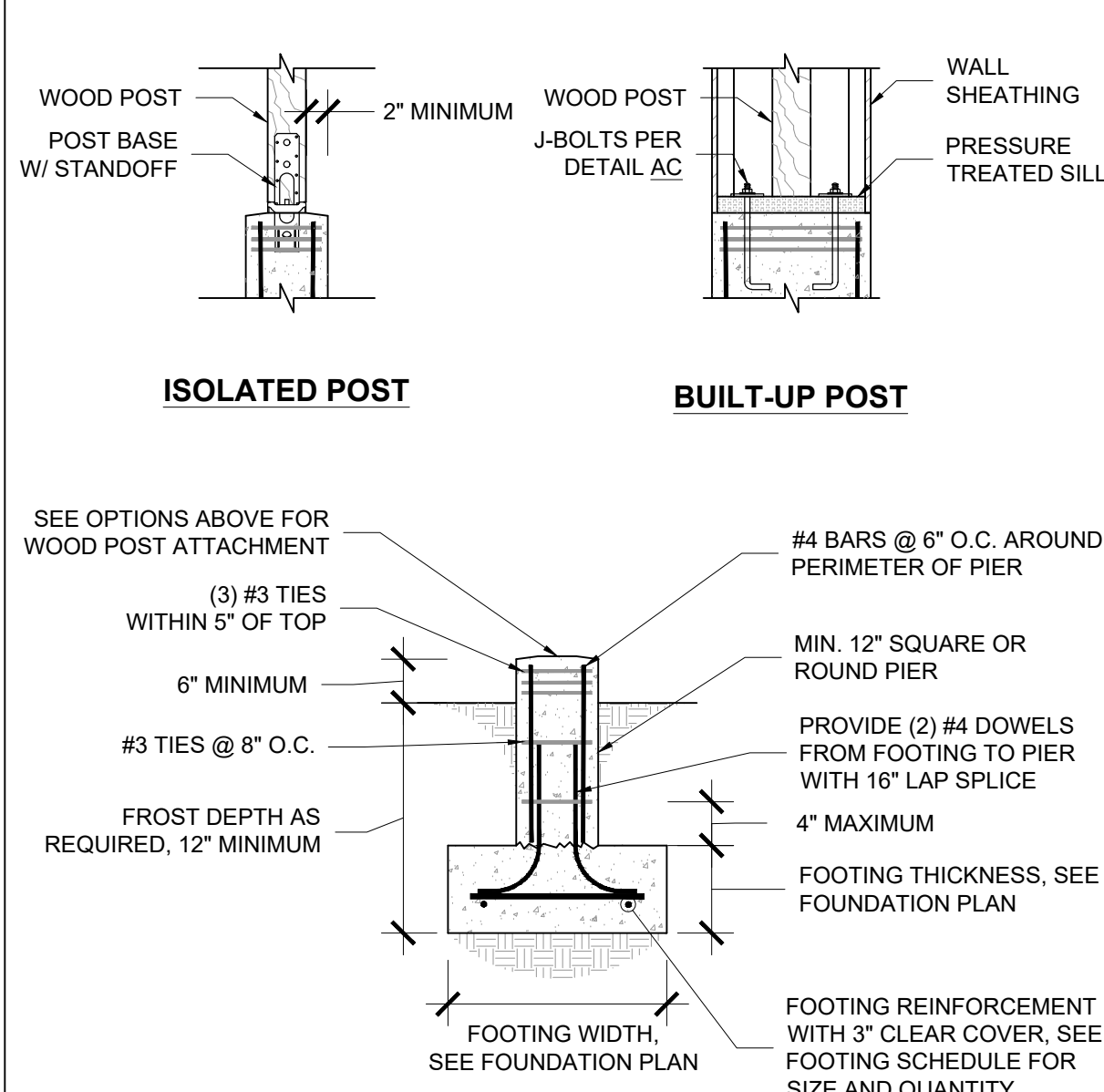
AC SILL PLATE ANCHORAGE
SCALE : NTS



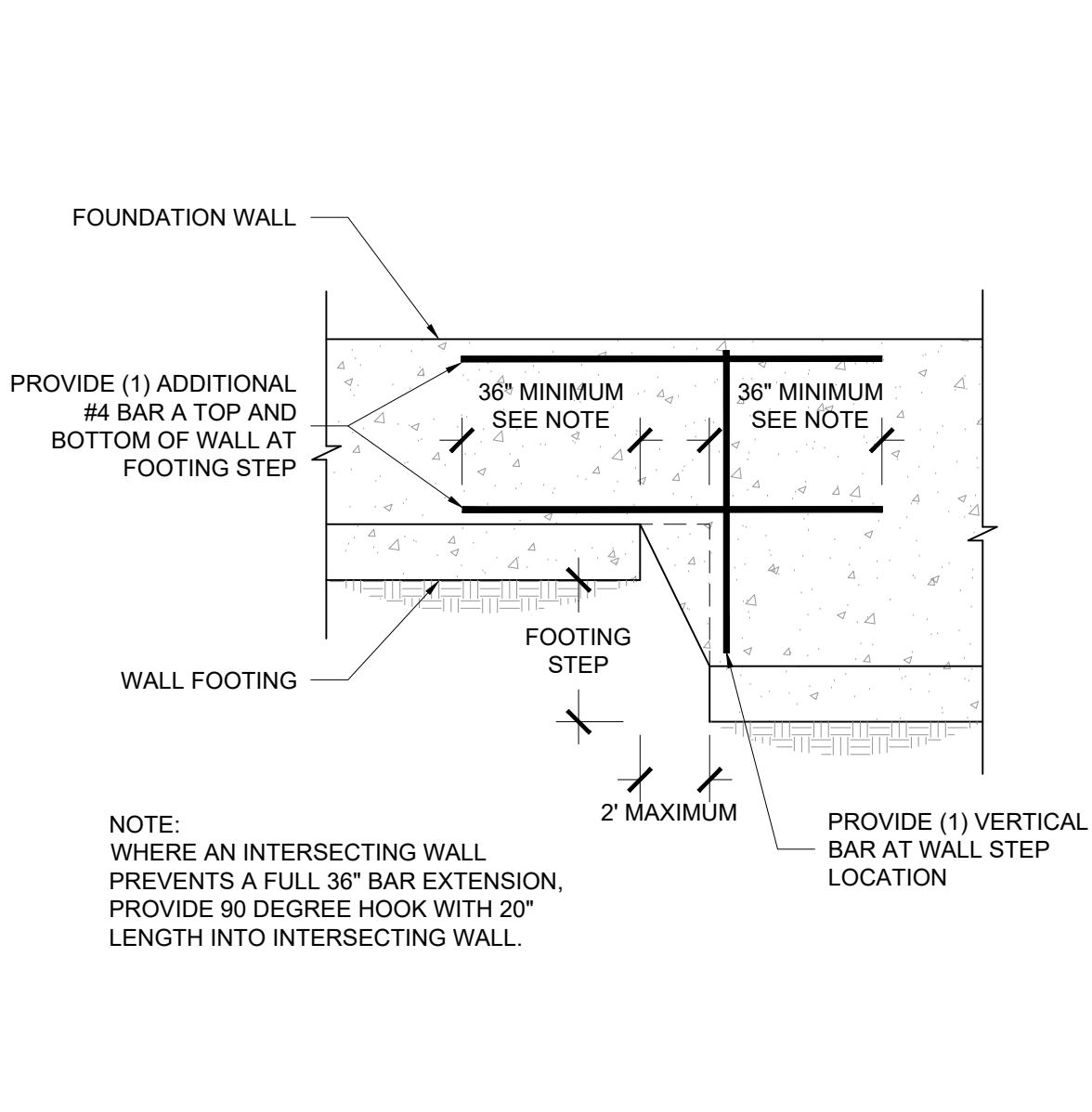
AE FOUNDATIONS AT EXTERIOR WALL - SLAB ON GRADE
SCALE : NTS



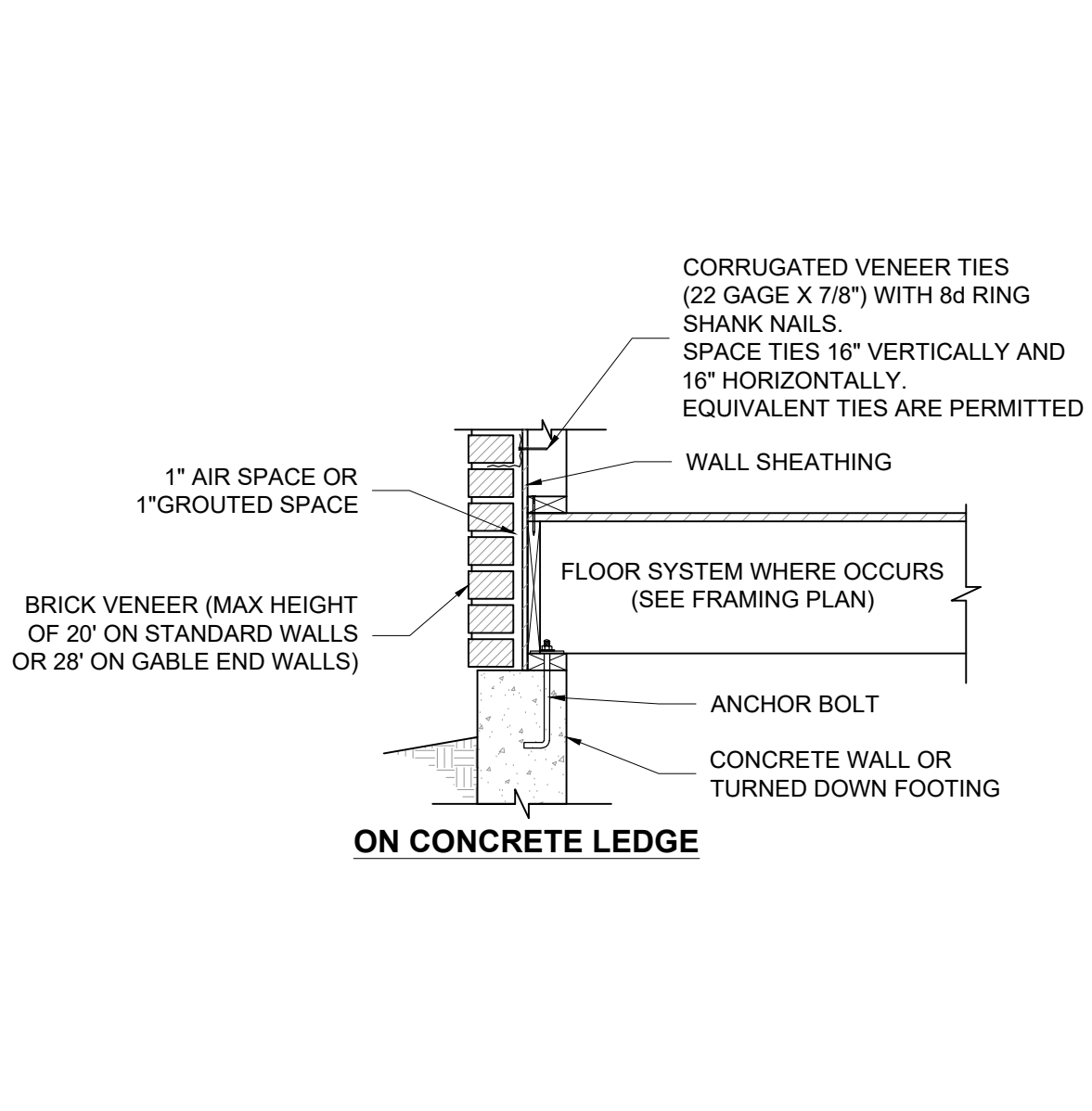
AF INTERIOR FOOTING
SCALE : NTS



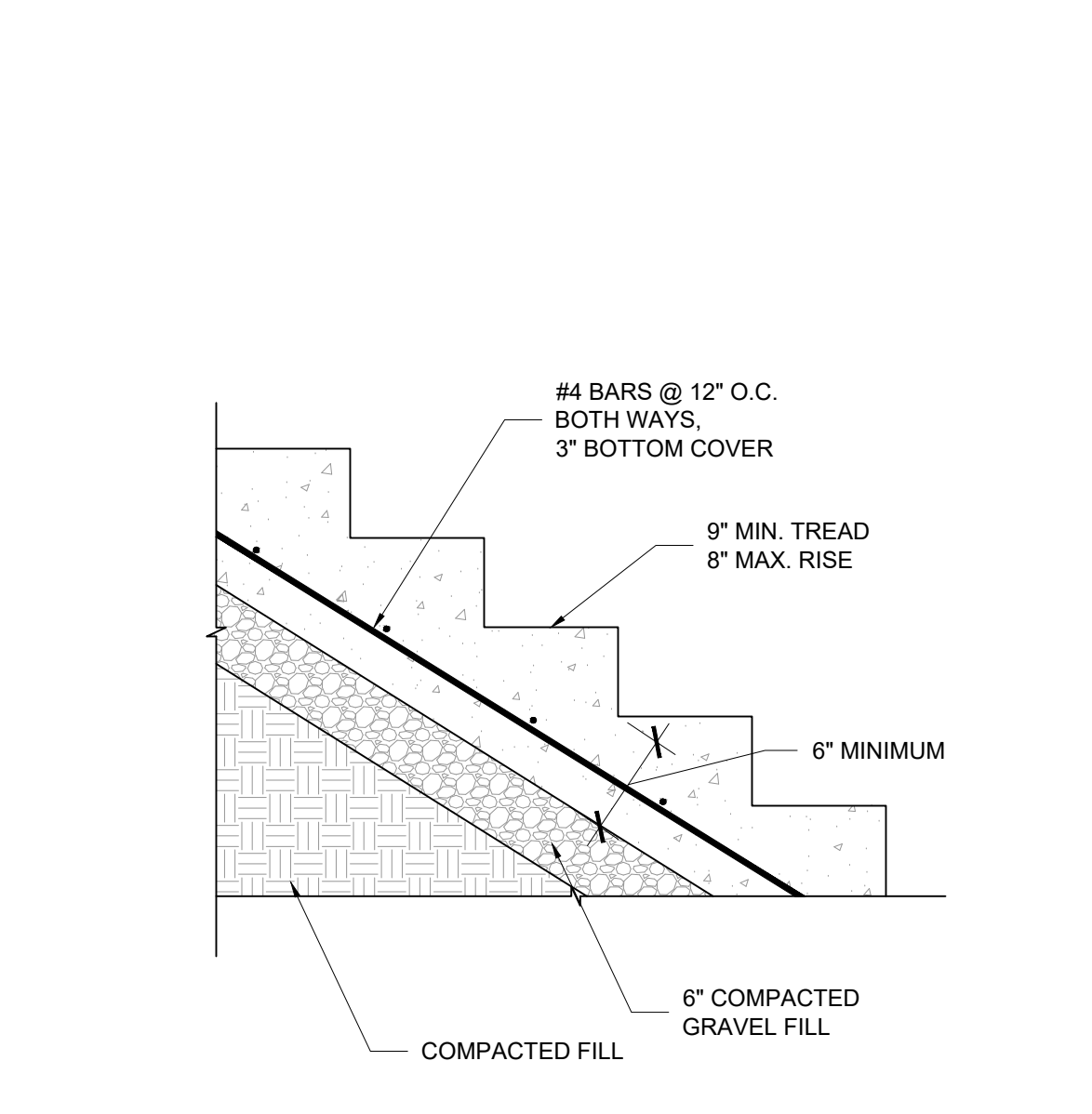
AG EXTERIOR SPOT FOOTING
SCALE : NTS



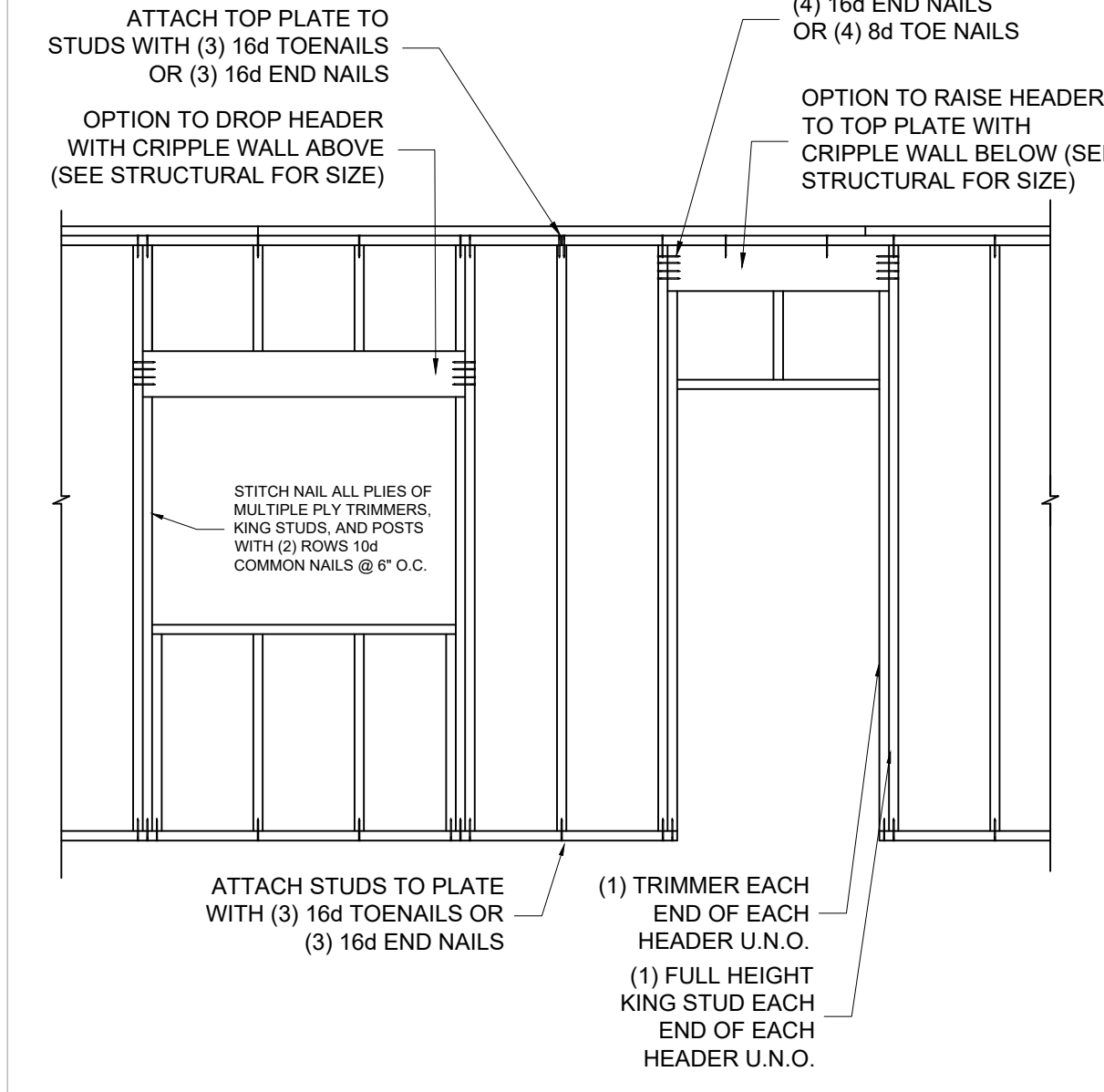
AJ STEPPED FOOTING
SCALE : NTS



AO BRICK BEARING ON FOUNDATION
SCALE : NTS



AT CONCRETE STAIRS
SCALE : NTS



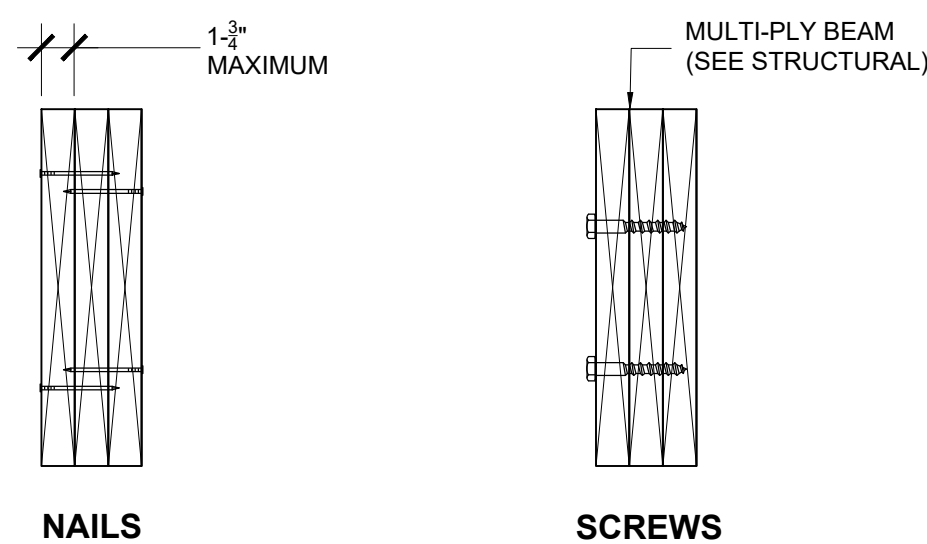
GA WALL AND HEADER FRAMING
SCALE : NTS



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1188 SOUTH OLD TRAPPERS LOOP ROAD
HUNTSVILLE, UT 84317

Revisions

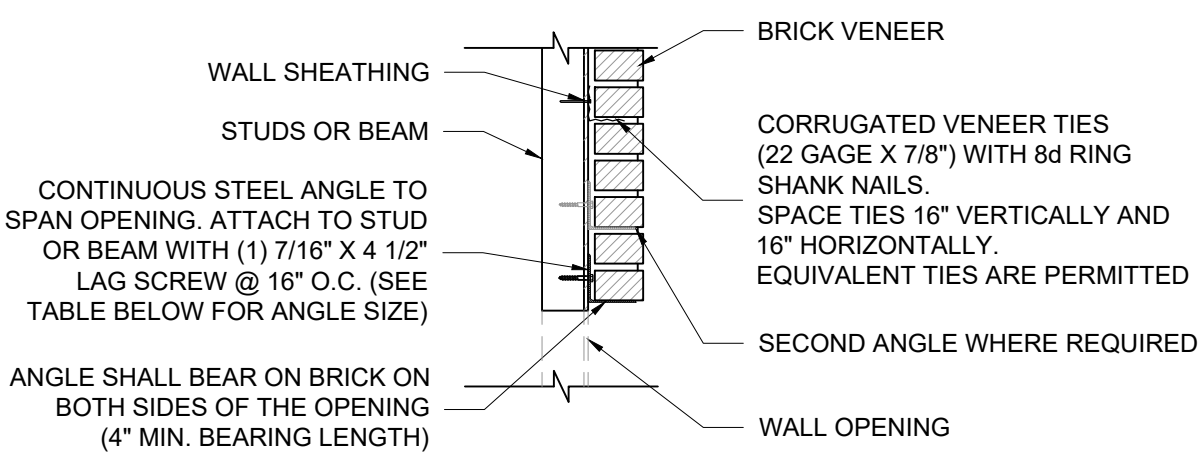
1	12-16-2022	ANCHORS/ FOUNDATIONS
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-



# OF PLYS	ROWS	FASTENER	SPACING
2	3	10d (3")	12" O.C.
3	4	10d (3")	12" O.C.
4	3	SDW22634	16" O.C.

SEE STRUCTURAL FOR ANY FASTENER SIZES AND SPACINGS DIFFERENT FROM WHAT IS DISPLAYED IN THIS TABLE

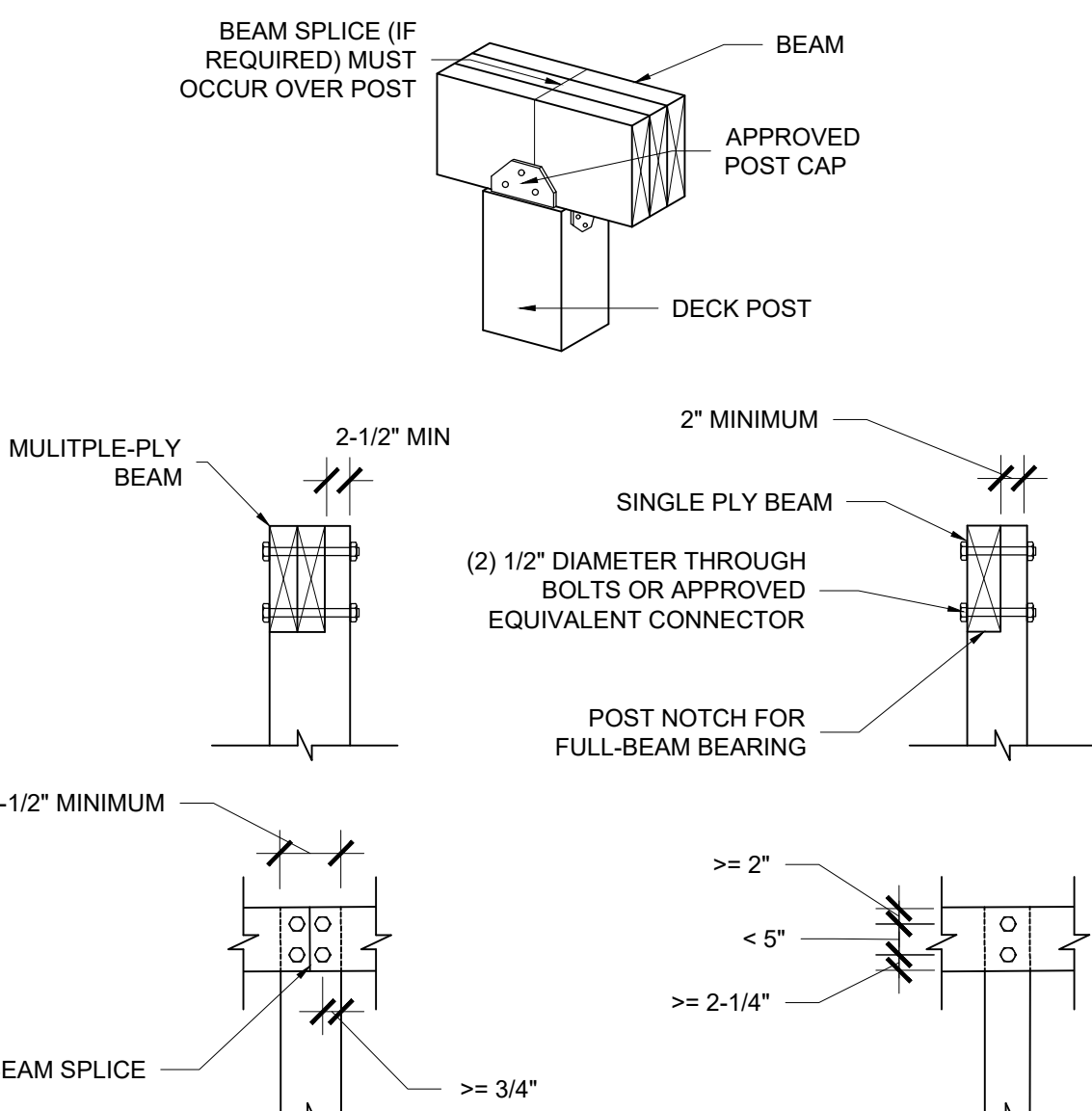
GG MULTIPLE PLY BEAM FASTENING
SCALE : NTS



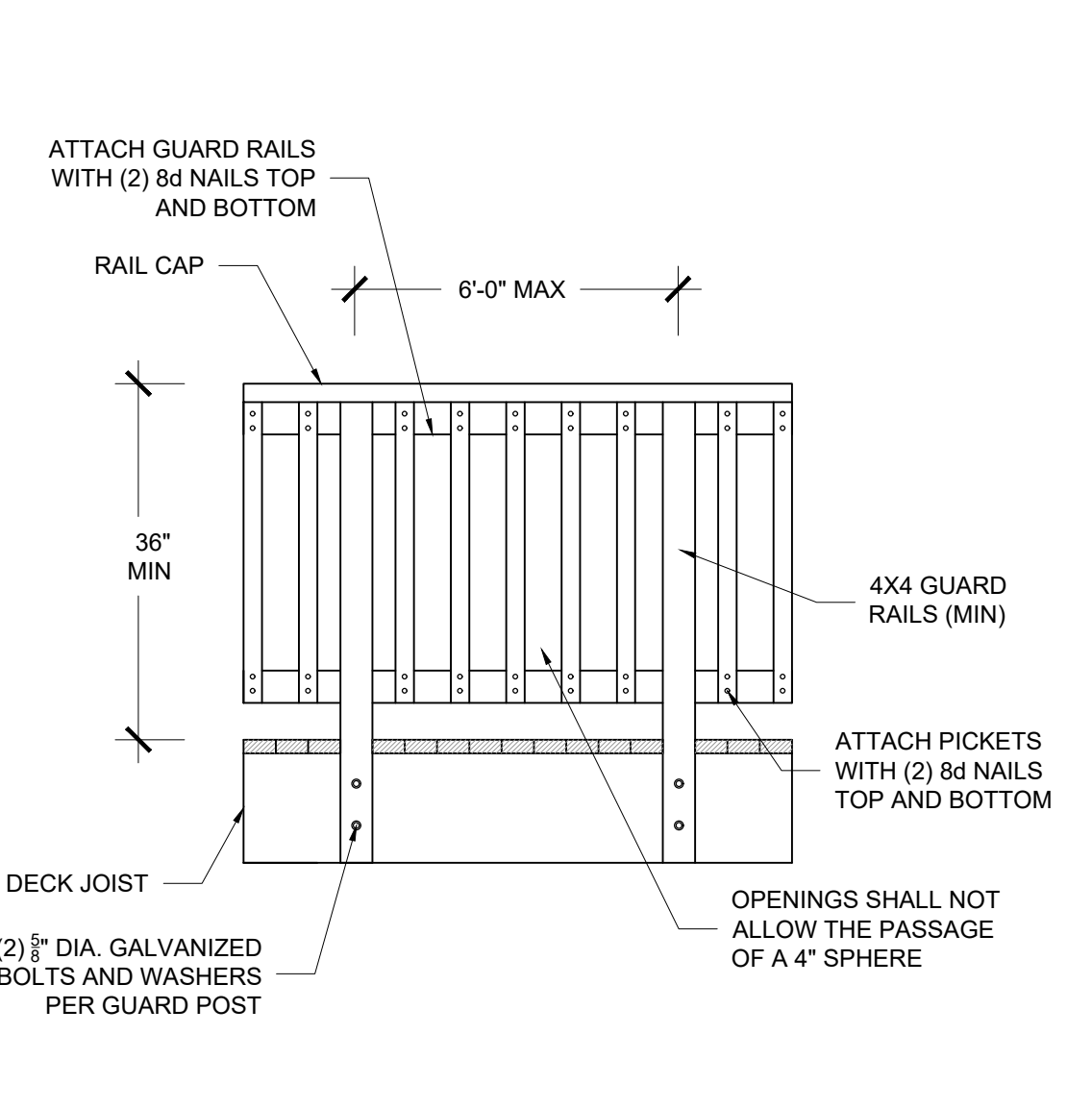
ANGLE SIZE	ALLOWABLE ANGLE CLEAR SPAN	
	NO STORY ABOVE	ONE STORY ABOVE
3 X 3 X 1/4	6'-0"	4'-6"
4 X 3 X 1/4	8'-0"	6'-0"
5 X 3-1/2 X 5/16	10'-0"	8'-0"
6 X 3-1/2 X 5/16	14'-0"	9'-6"
(2) 6 X 3-1/2 X 5/16	20'-0"	12'-0"

- LONG LEG UP FOR ALL ANGLES
- INTELS SHALL BE SHOP COATED WITH RUST-INHIBITIVE PAINT OR SHALL BE MADE OF CORROSION-RESISTANT STEEL
- WHERE MASONRY VENEER SUPPORTED BY WOOD CONSTRUCTION ADJOINS MASONRY VENEER SUPPORTED BY THE FOUNDATION, THERE SHALL BE A MOVEMENT JOINT BETWEEN THE TWO SECTIONS OF VENEER.

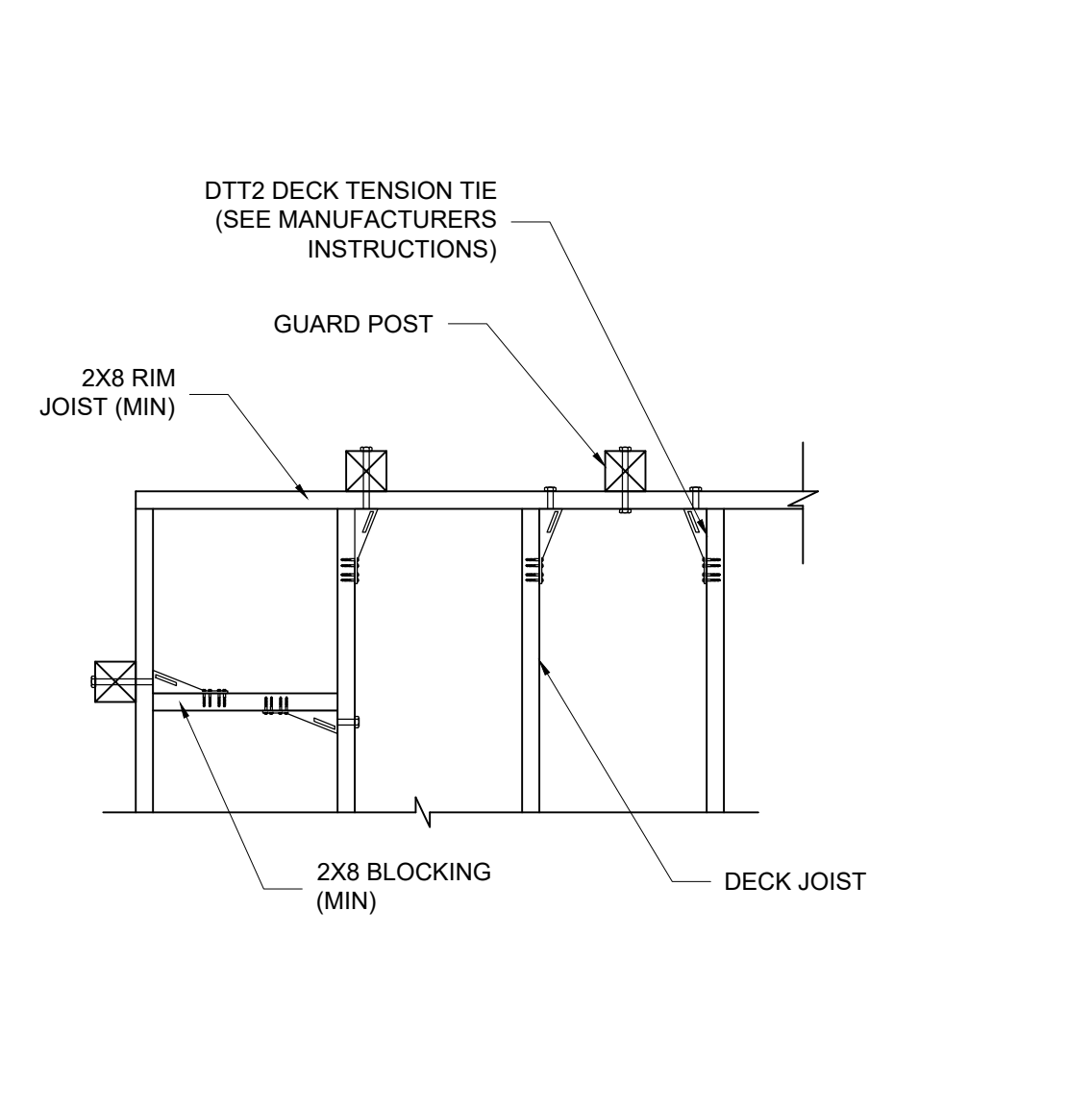
GL BRICK OR STONE VENEER OVER OPENING
SCALE : NTS



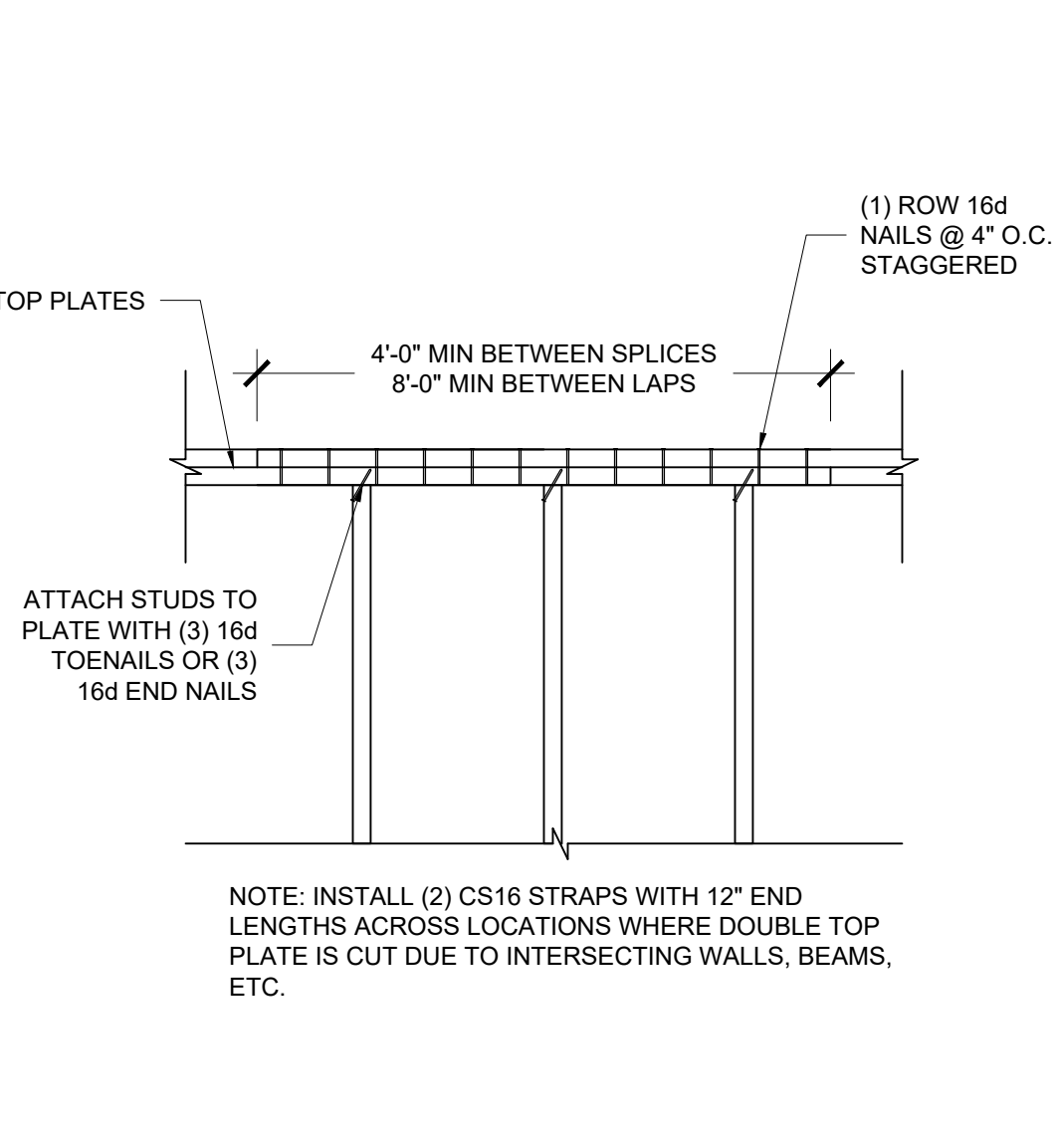
GP DECK POST TO BEAM CONNECTIONS
SCALE : NTS



GR DECK RAILING ATTACHMENT
SCALE : NTS

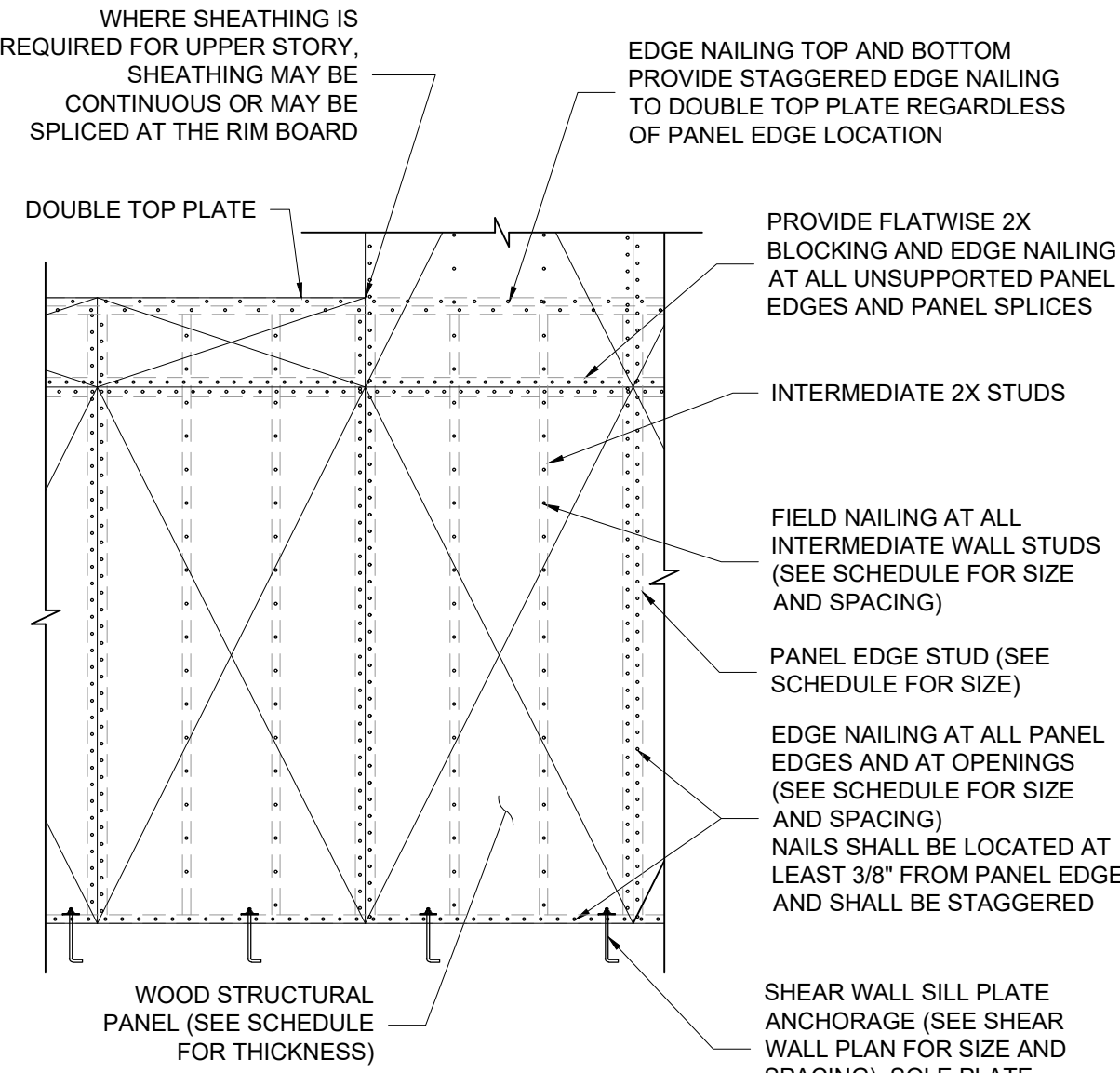


GS DECK GUARD POST ATTACHMENT
SCALE : NTS

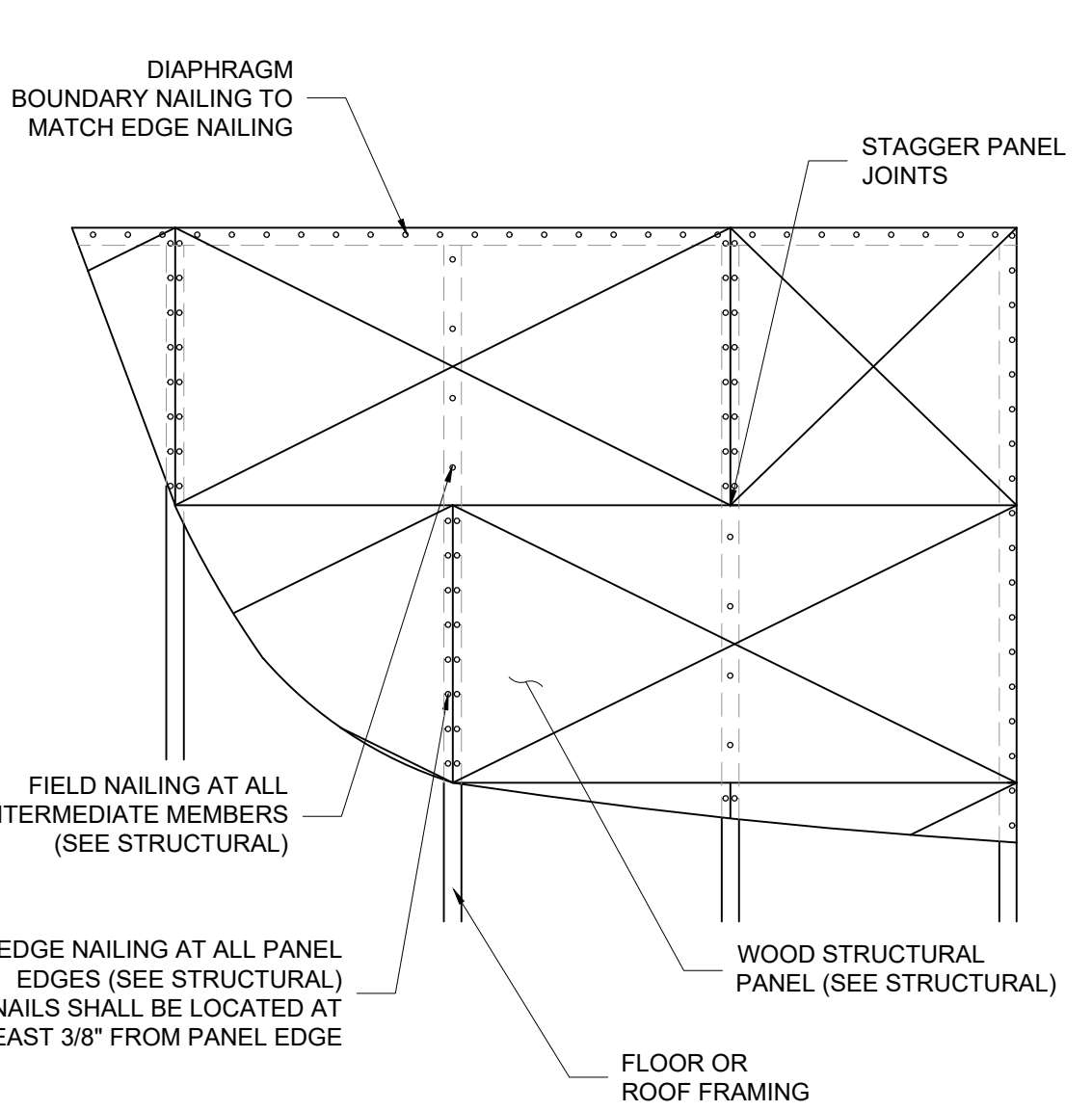


NOTE: INSTALL (2) CS16 STRAPS WITH 12" END LENGTHS ACROSS LOCATIONS WHERE DOUBLE TOP PLATE IS CUT DUE TO INTERSECTING WALLS, BEAMS, ETC.

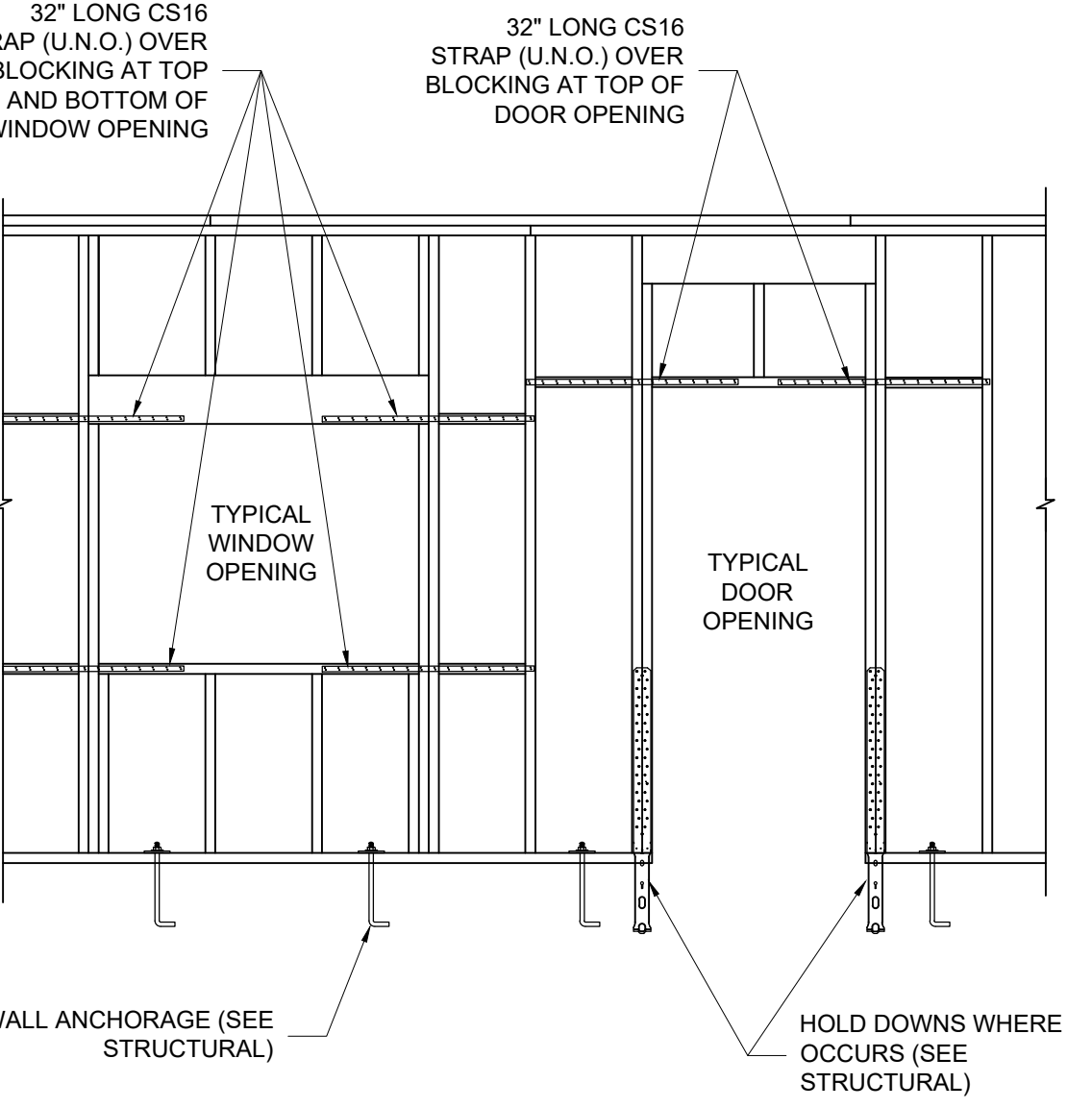
HA DOUBLE TOP PLATE SPLICE
SCALE : NTS



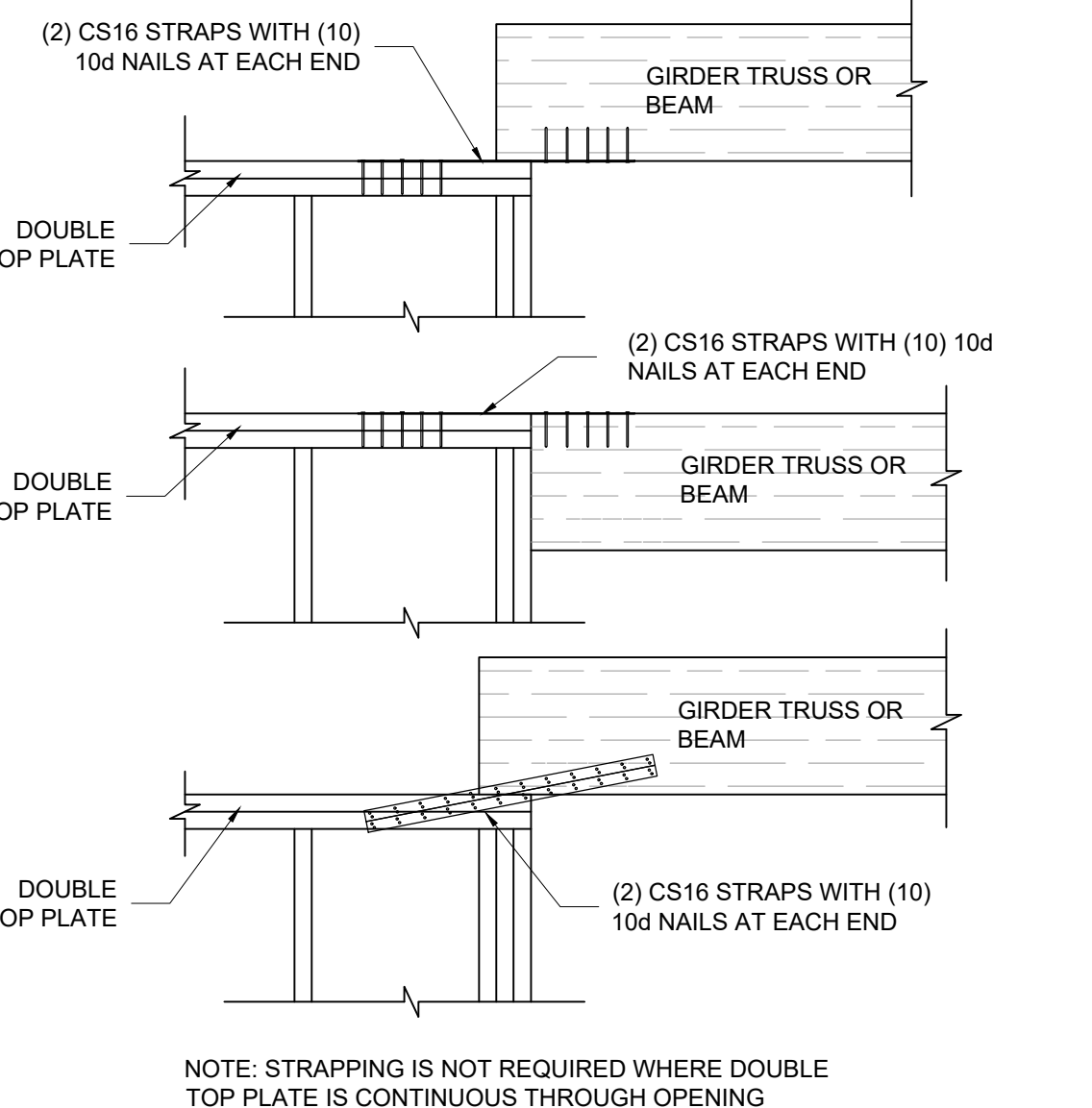
HB SHEAR WALL PANEL ATTACHMENT
SCALE : NTS



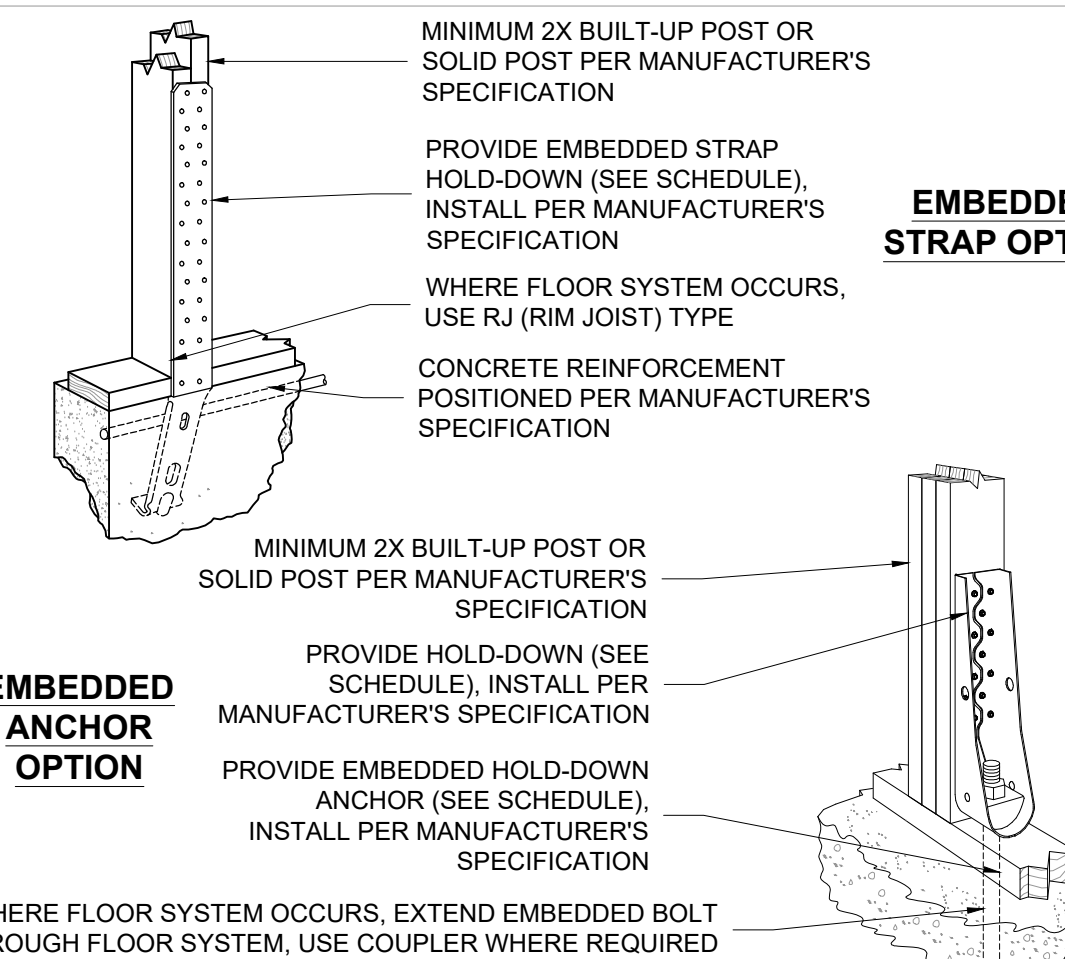
HD UNBLOCKED DIAPHRAGM
SCALE : NTS



HF FORCE TRANSFER AROUND OPENING - SHEAR WALL
SCALE : NTS



HG TENSION TRANSFER - BEAM, TRUSS, OR GIRDER
SCALE : NTS

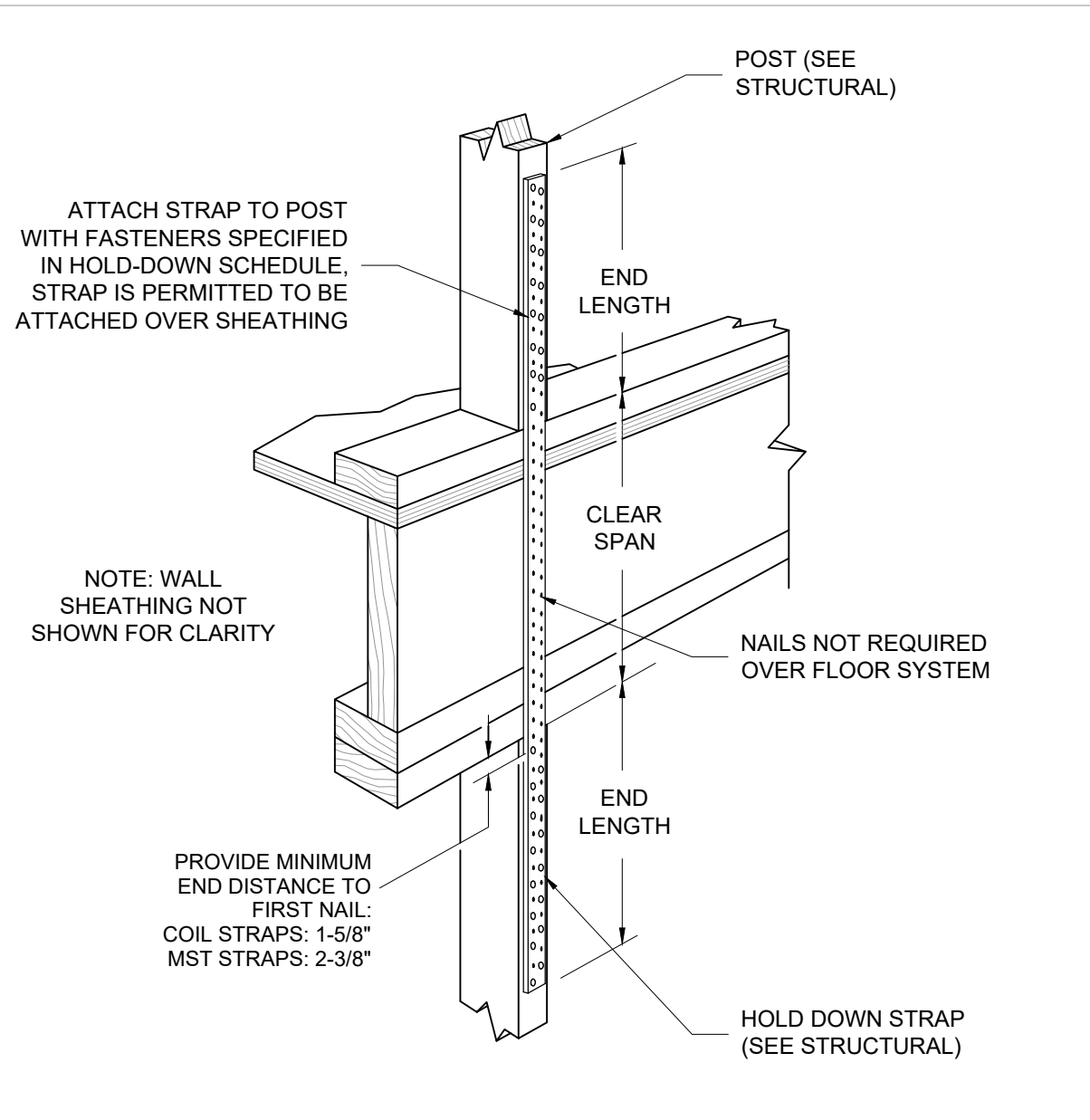


STHD STRAP RETROFIT TABLE

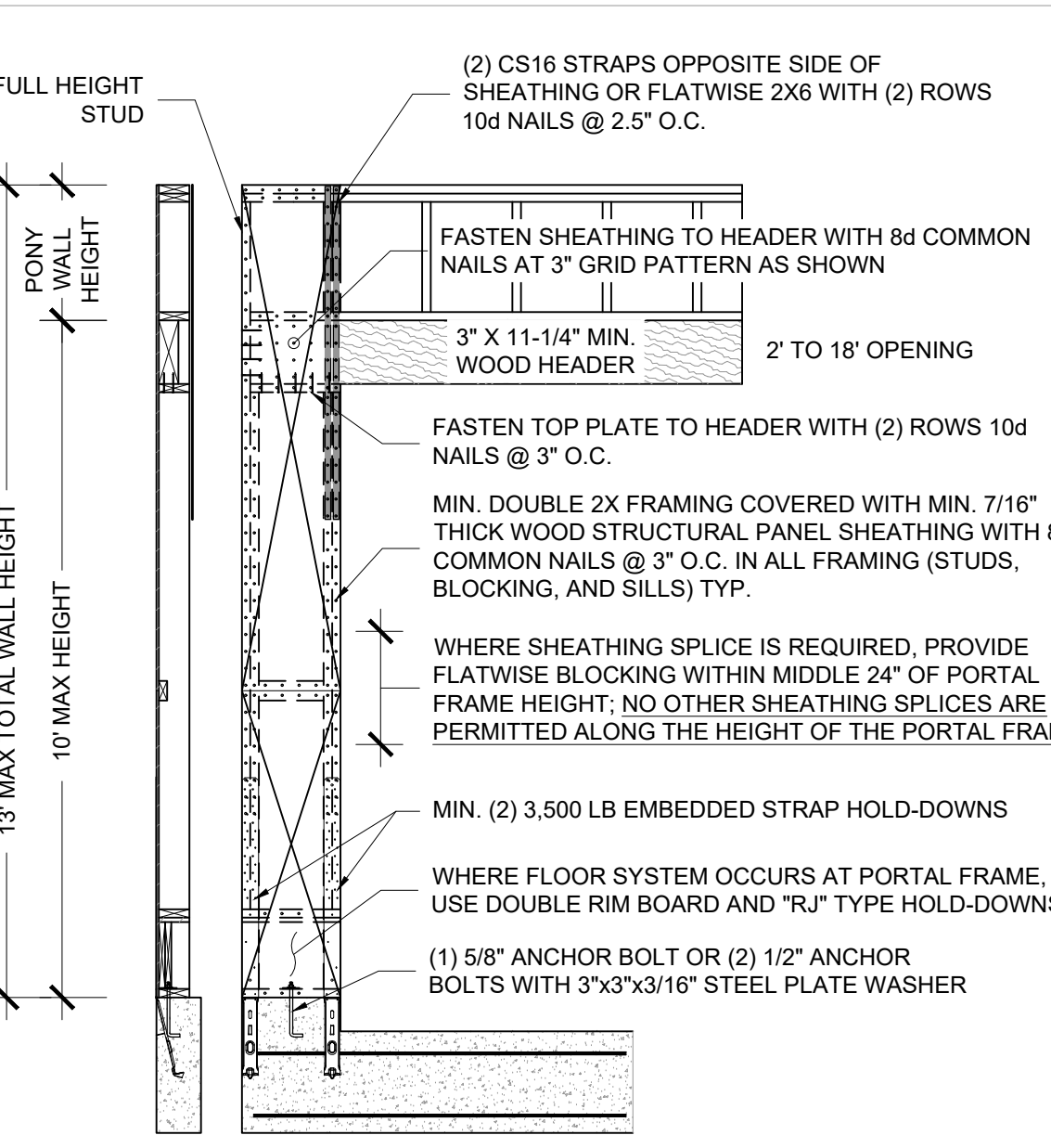
STRAP	HOLD DOWN & ANCHOR	EMBEDMENT
LSTHD8/ 8RJ	HDU2-SDS2.5 W/ 5/8" BOLT	8"
STHD10/ 10RJ	HDU4-SDS2.5 W/ 5/8" BOLT	12"
STHD14/ 14RJ	HDU5-SDS2.5 W/ 5/8" BOLT	16"

- USE SIMPSON SET-XP EPOXY BOLT EDGE DISTANCE IS 1-3/4" (MINIMUM)
- TABLE DOES NOT APPLY TO HOLD DOWNS FOR PORTAL FRAMES (CONTACT ENGINEER)

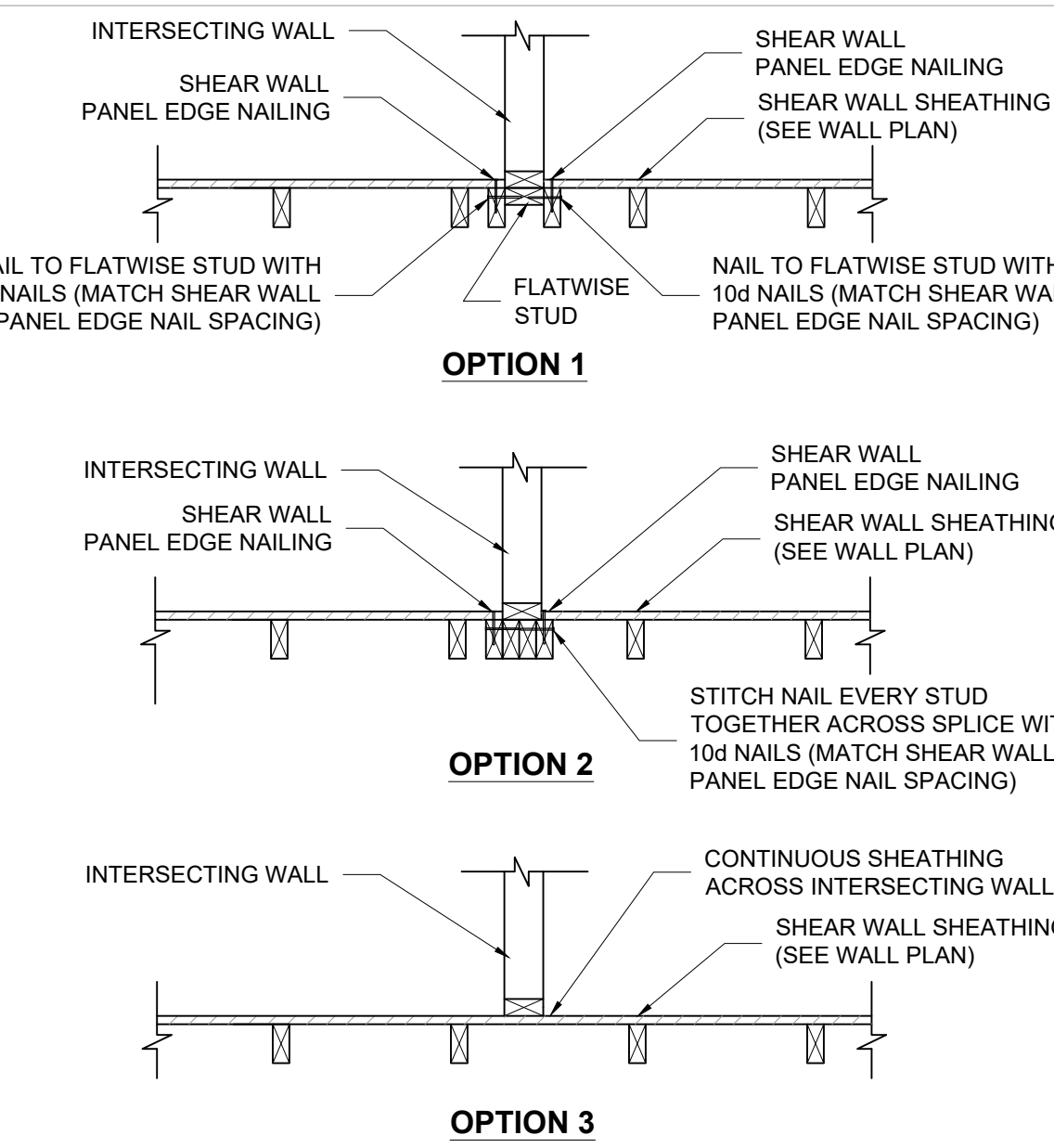
HK HOLD-DOWN TO CONCRETE
SCALE : NTS



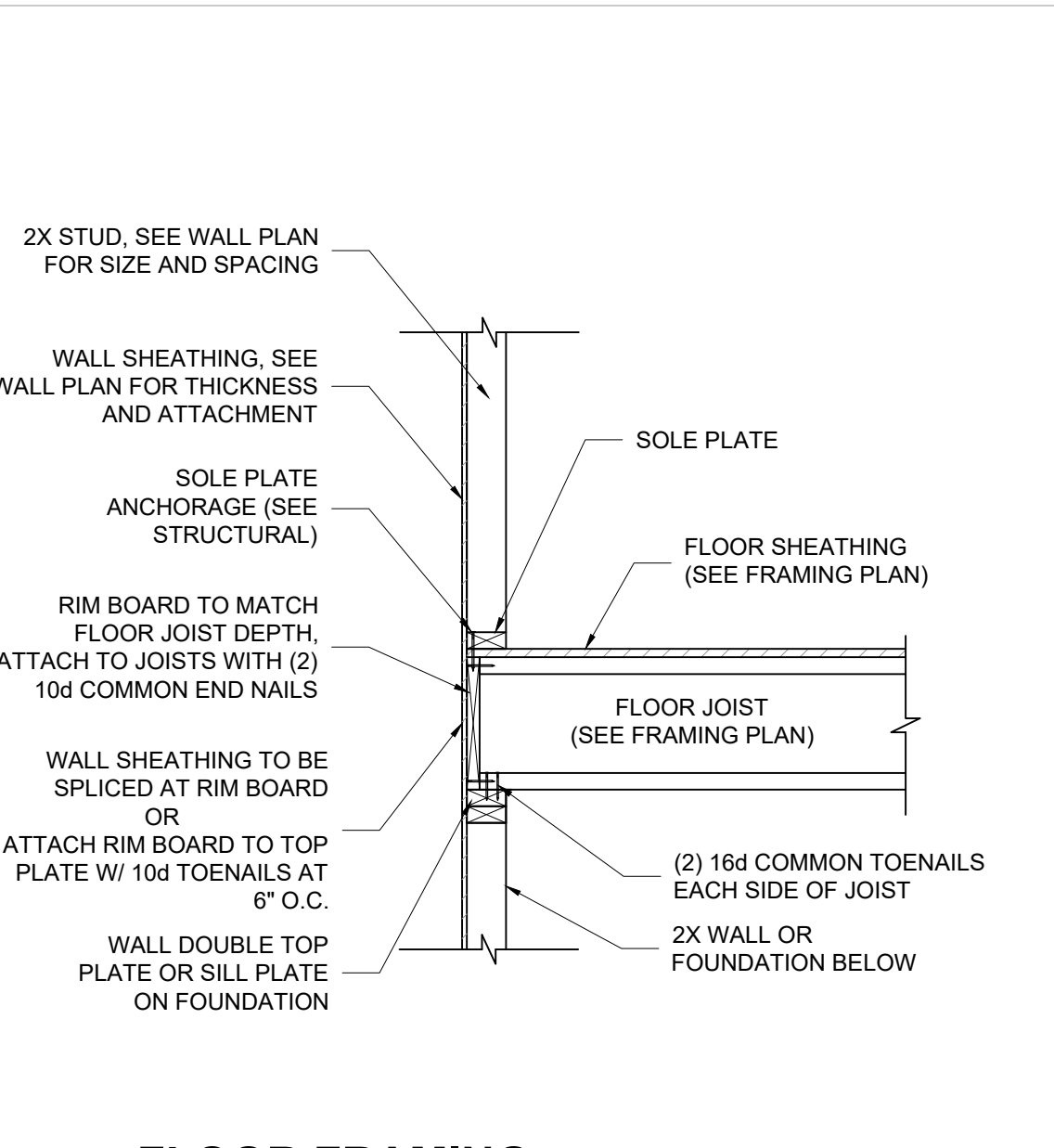
HL HOLD-DOWN STRAP ON WOOD
SCALE : NTS



HM PORTAL FRAME ON CONCRETE
SCALE : NTS



HZ SHEAR WALL CONTINUITY
SCALE : NTS



JA FLOOR FRAMING - PERPENDICULAR TO WALL
SCALE : NTS

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Project # : **220212**

Date: **02-17-2022**



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HUNTSVILLE, UT 84317

Revisions

1	12-16-2022	ANCHORS/ FOUNDATIONS
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-

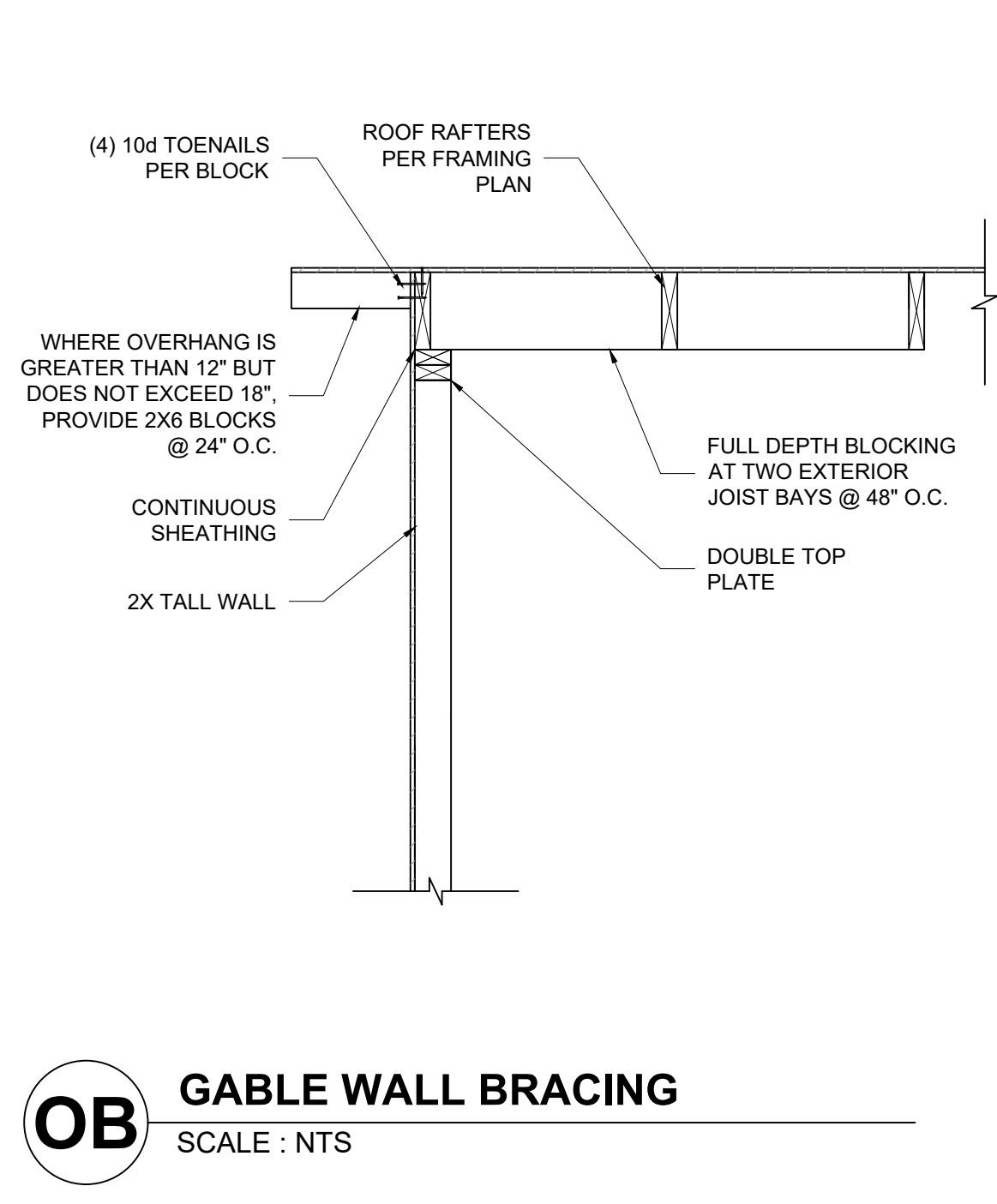
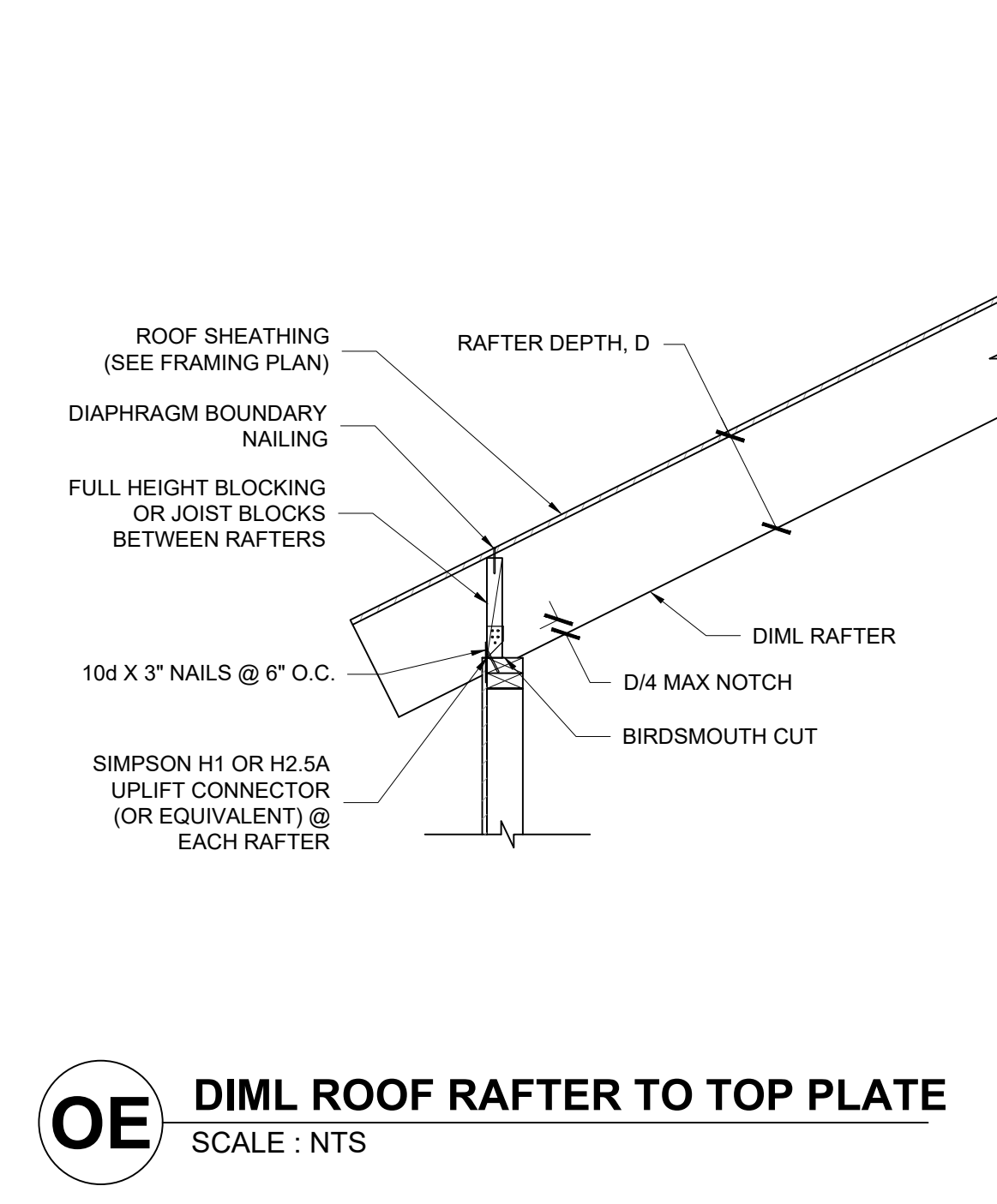
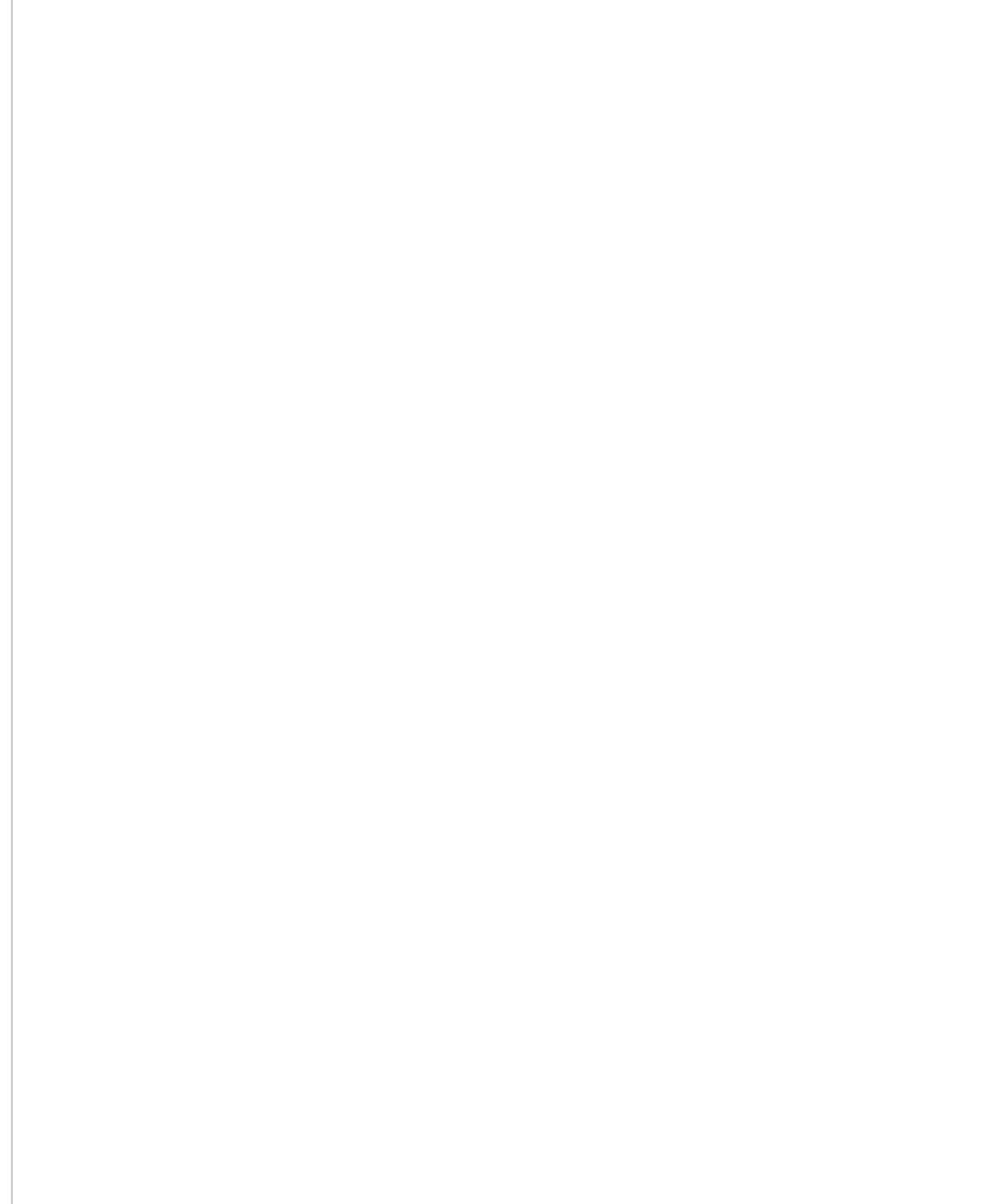
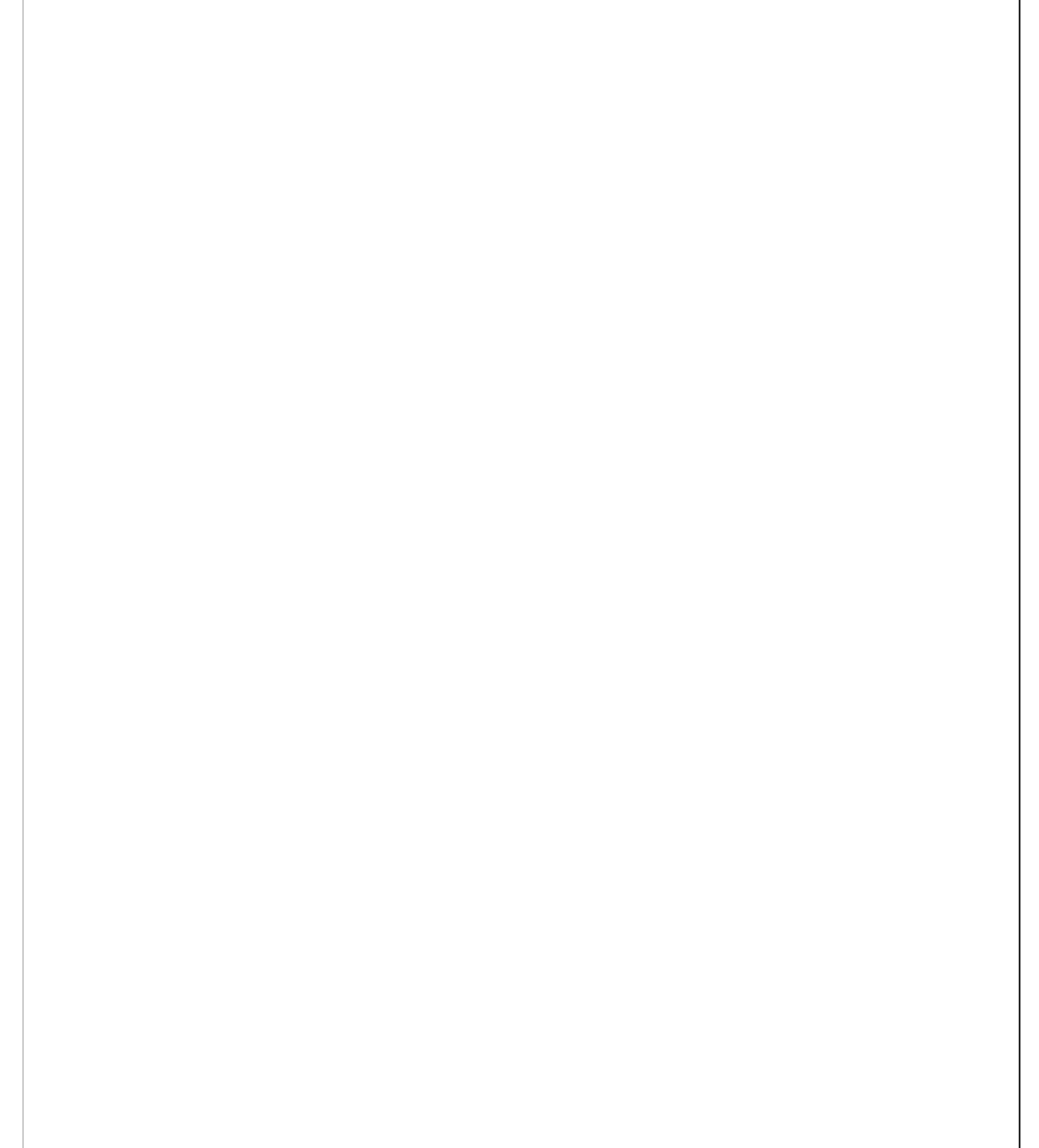
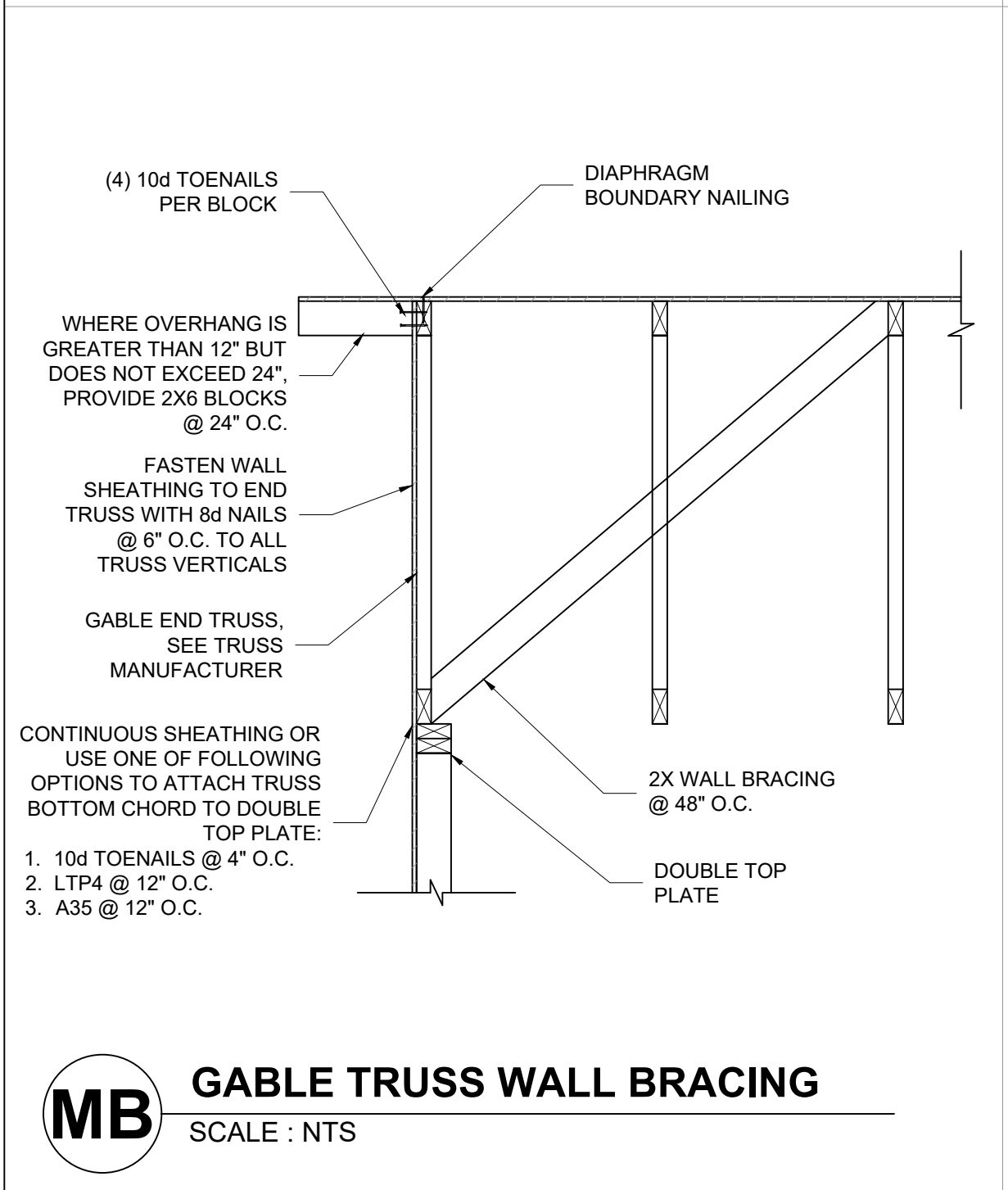
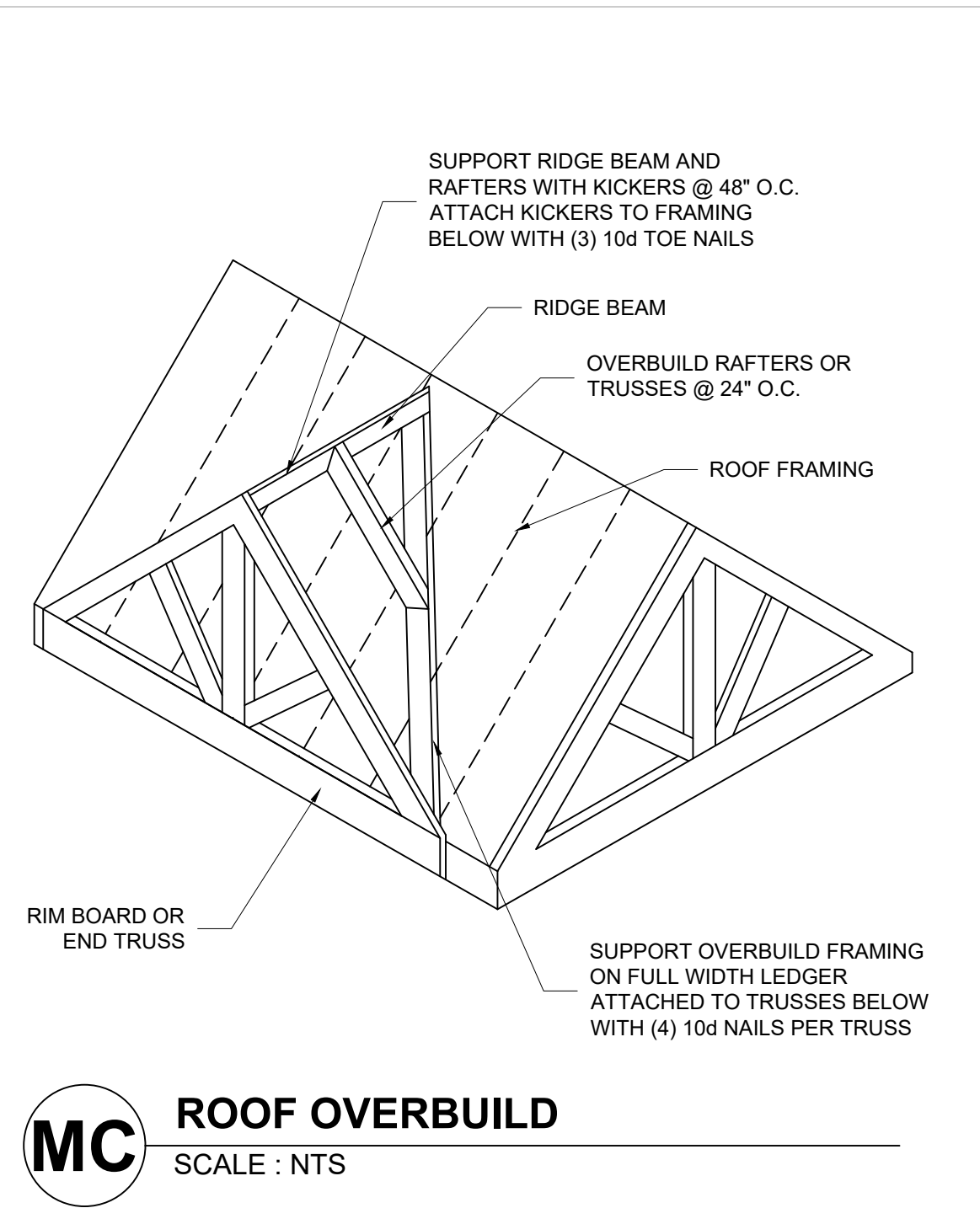
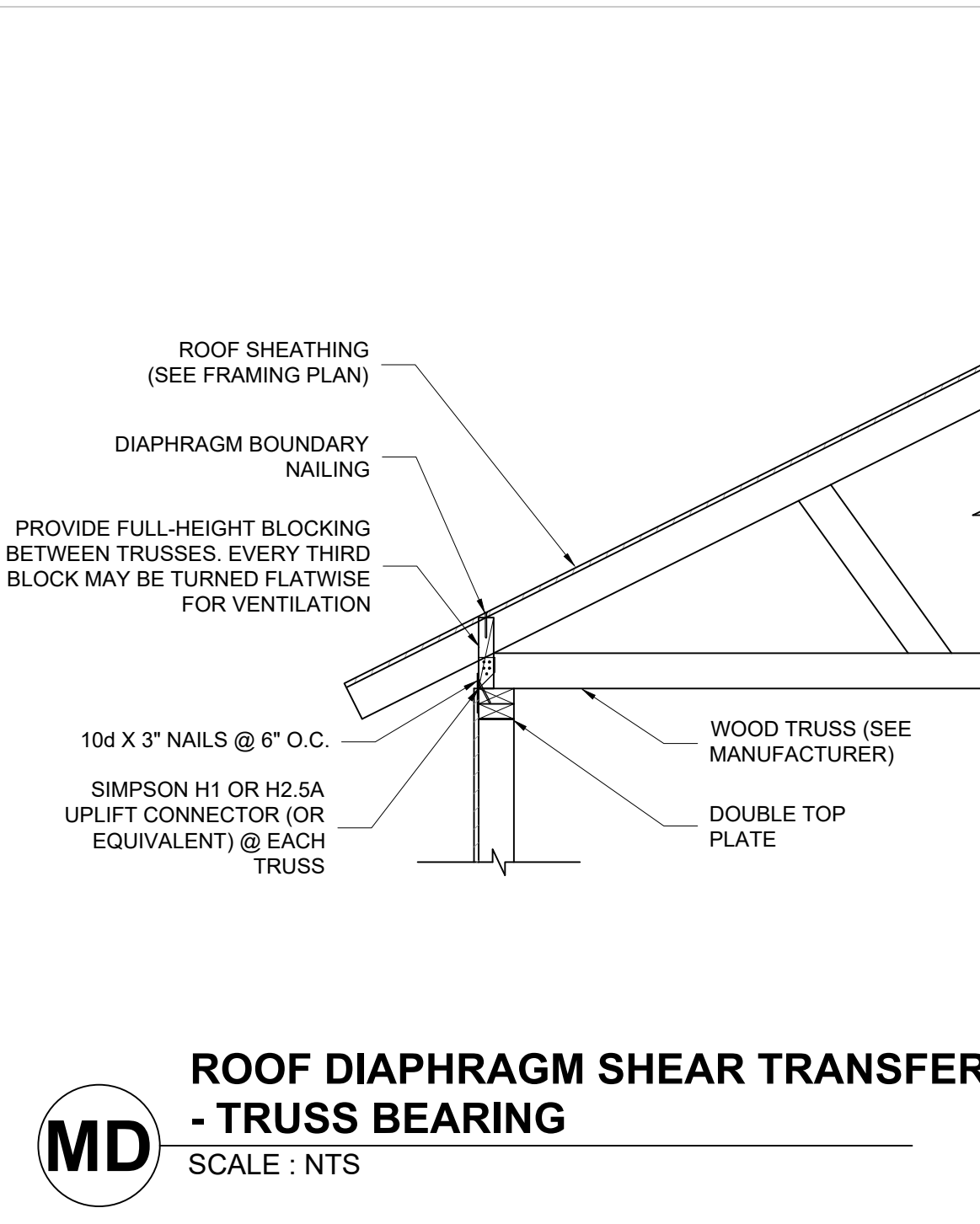
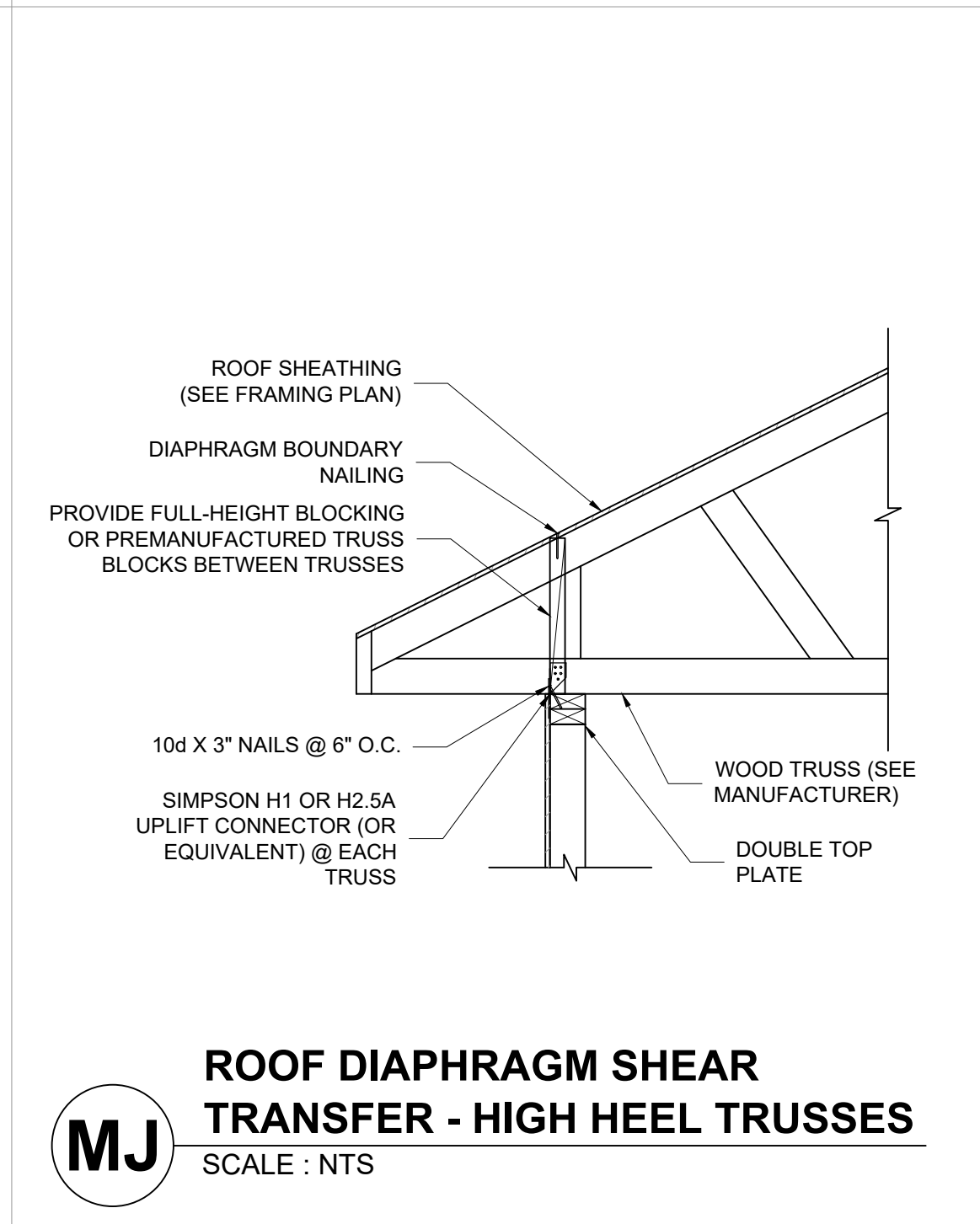
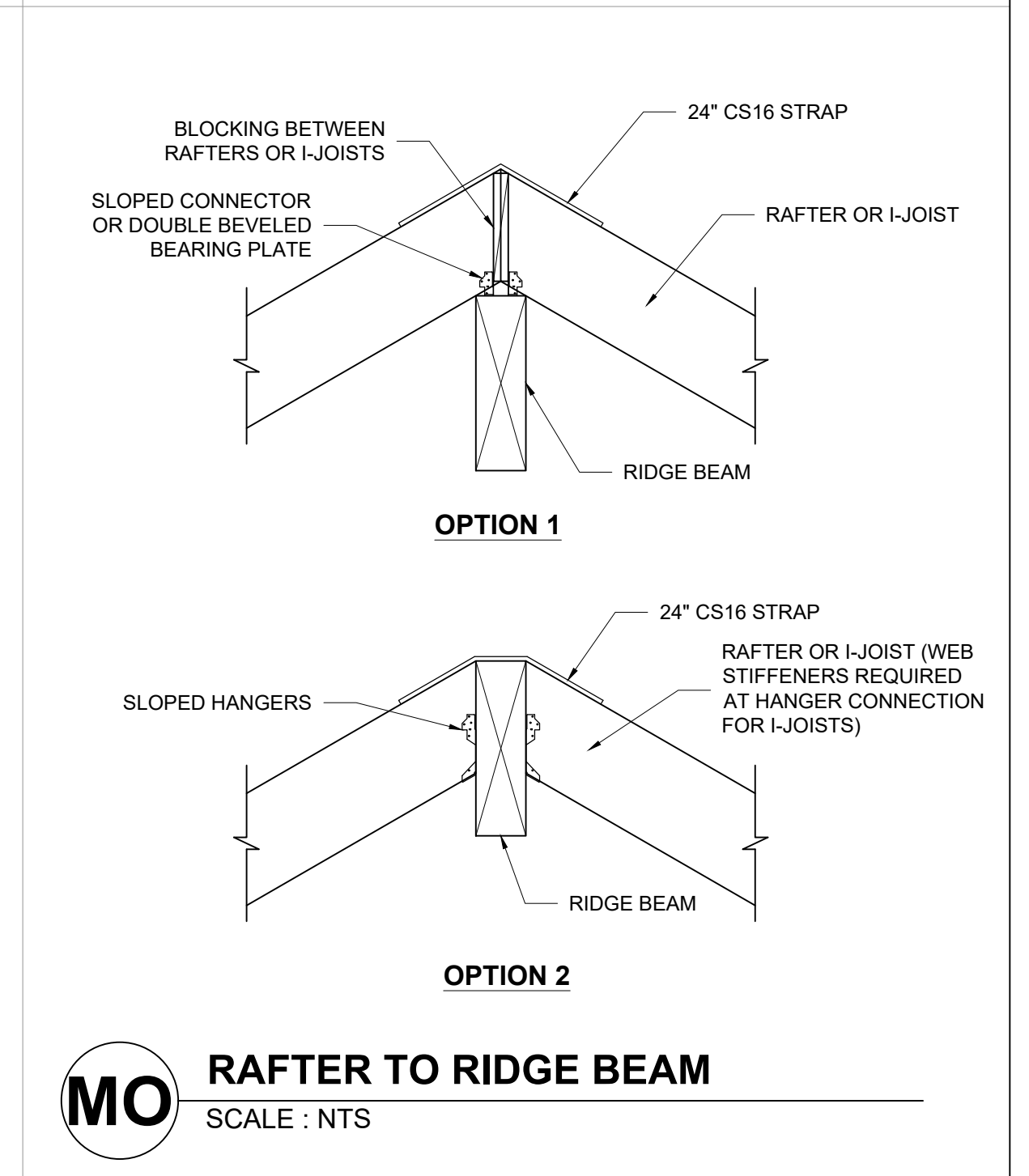
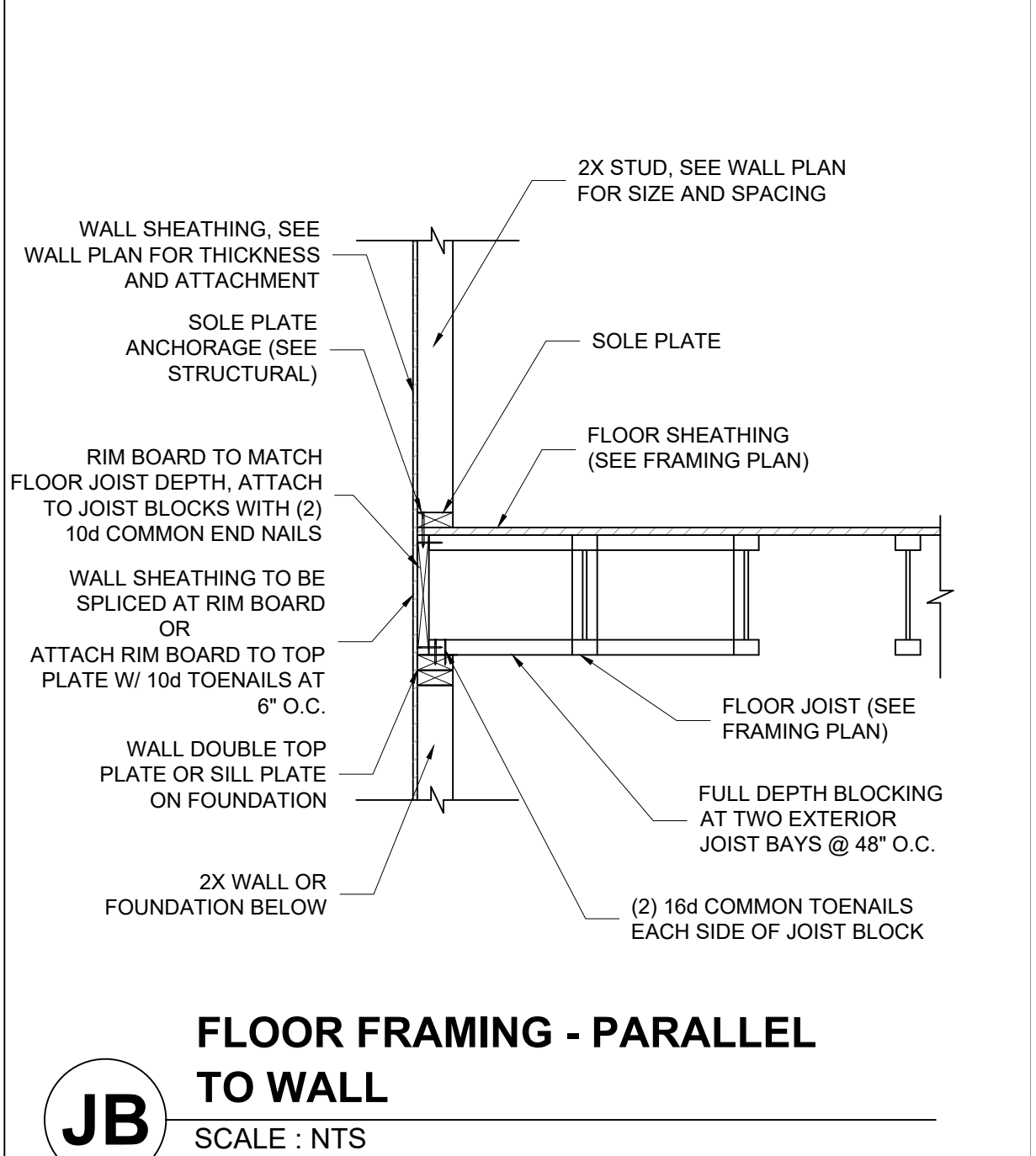
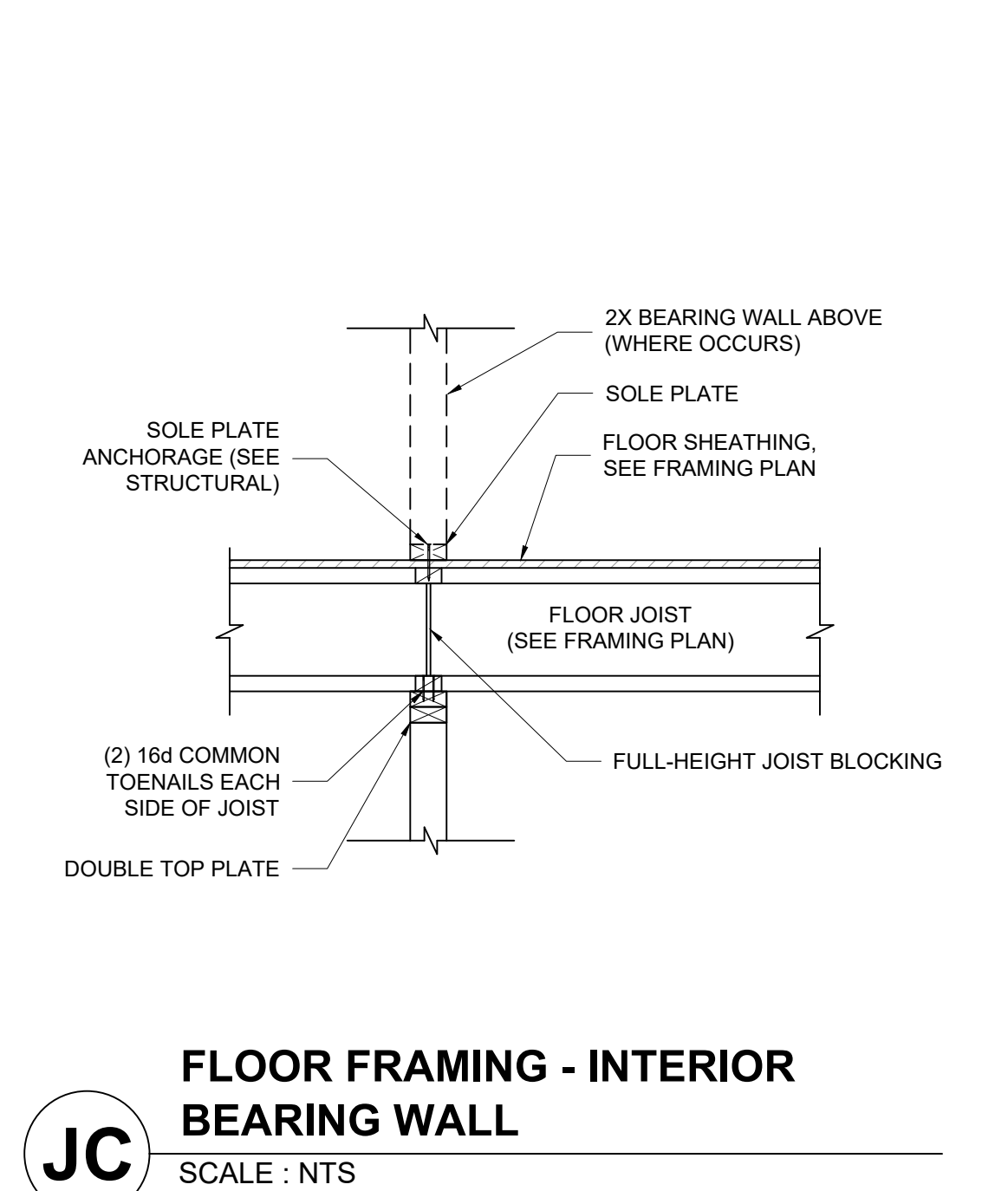
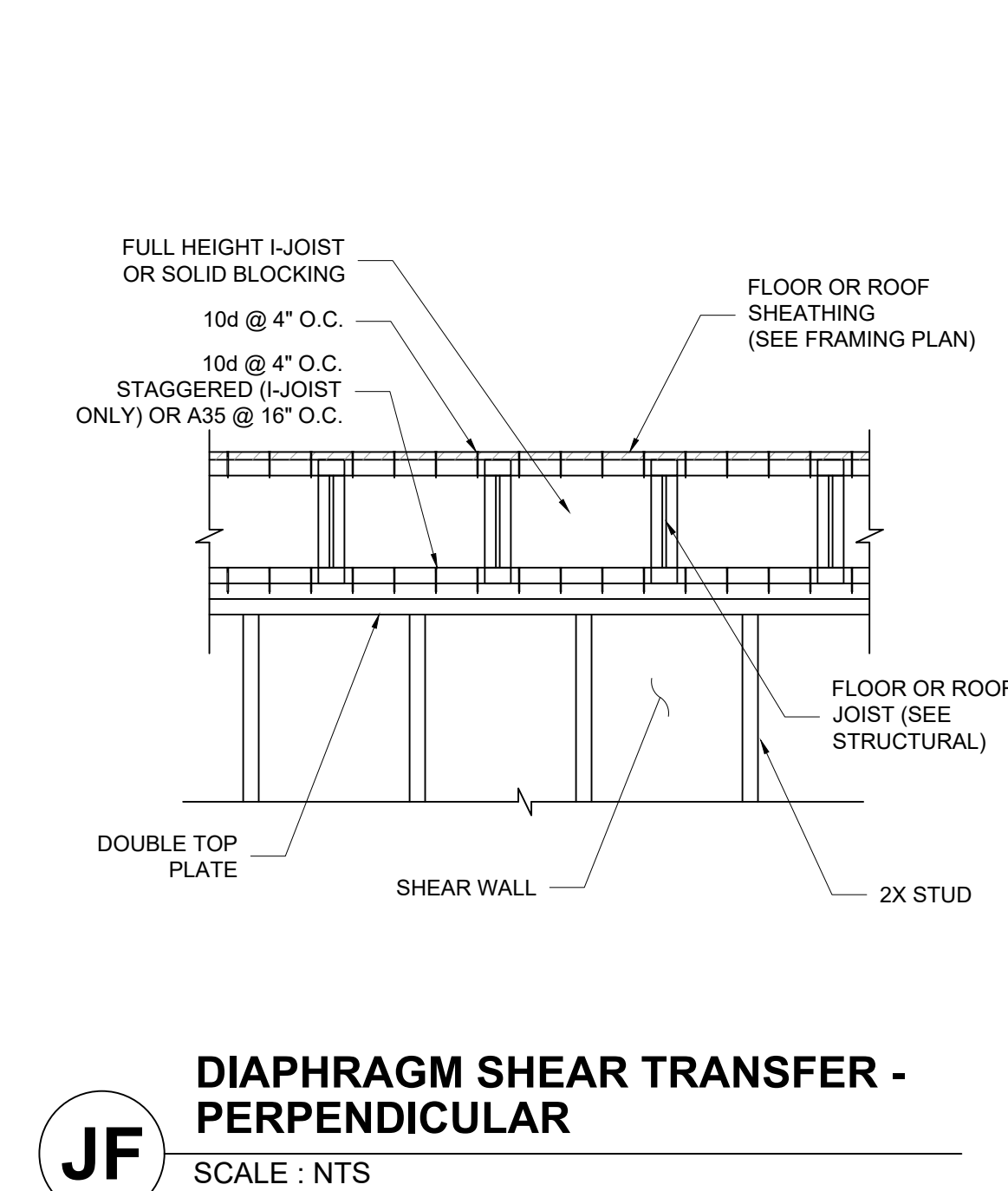
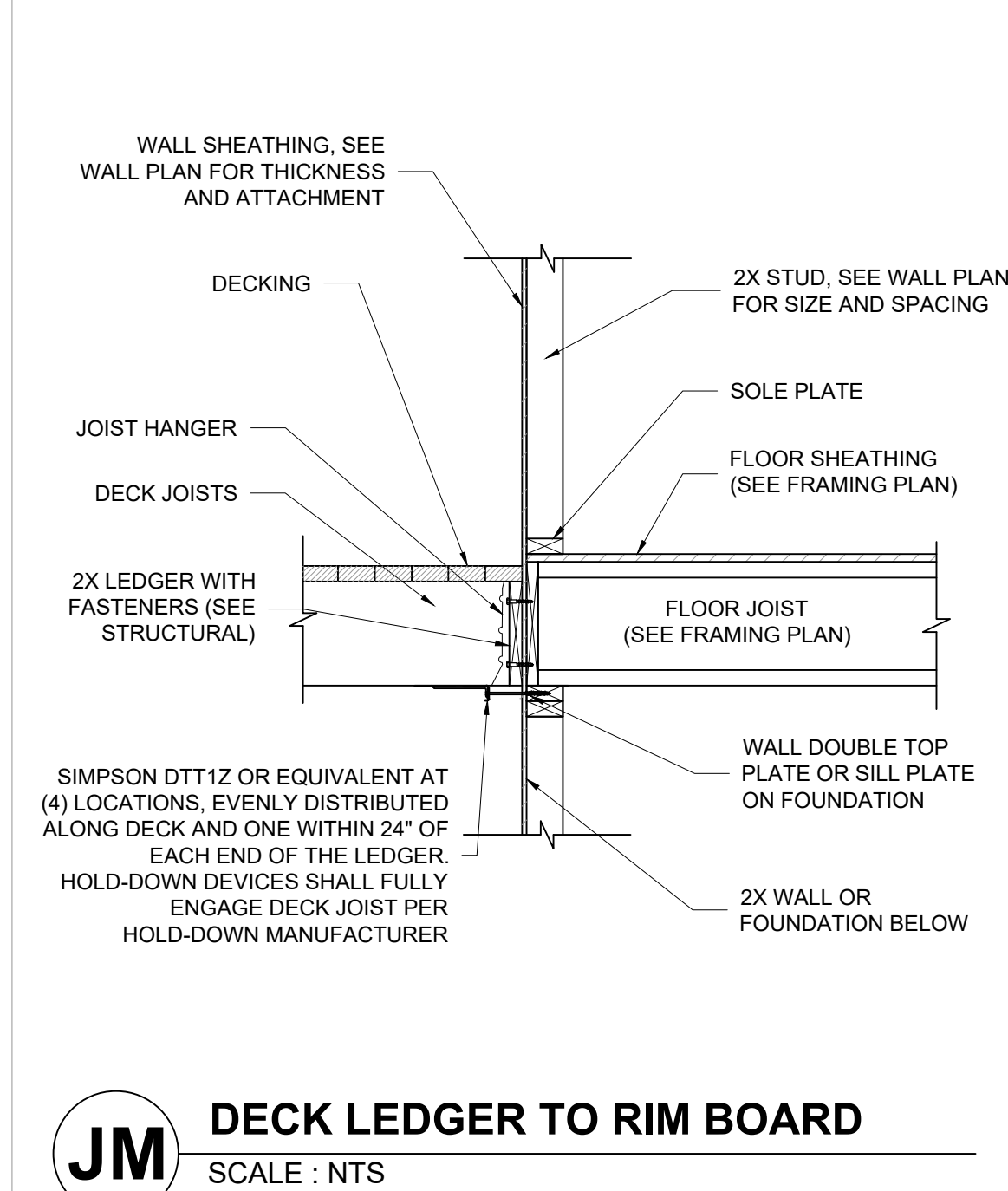
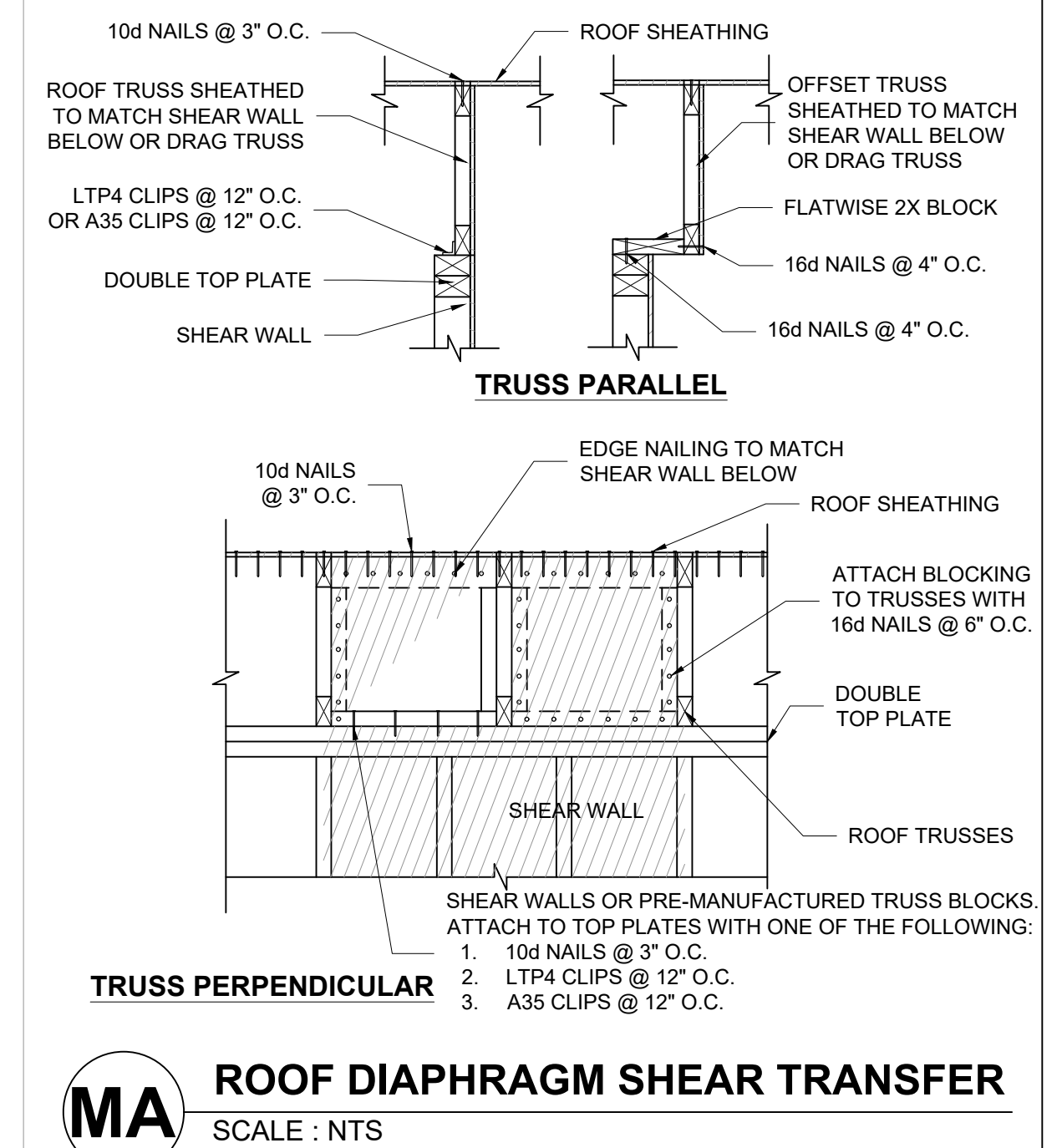
STRUCTURAL DETAILS 2



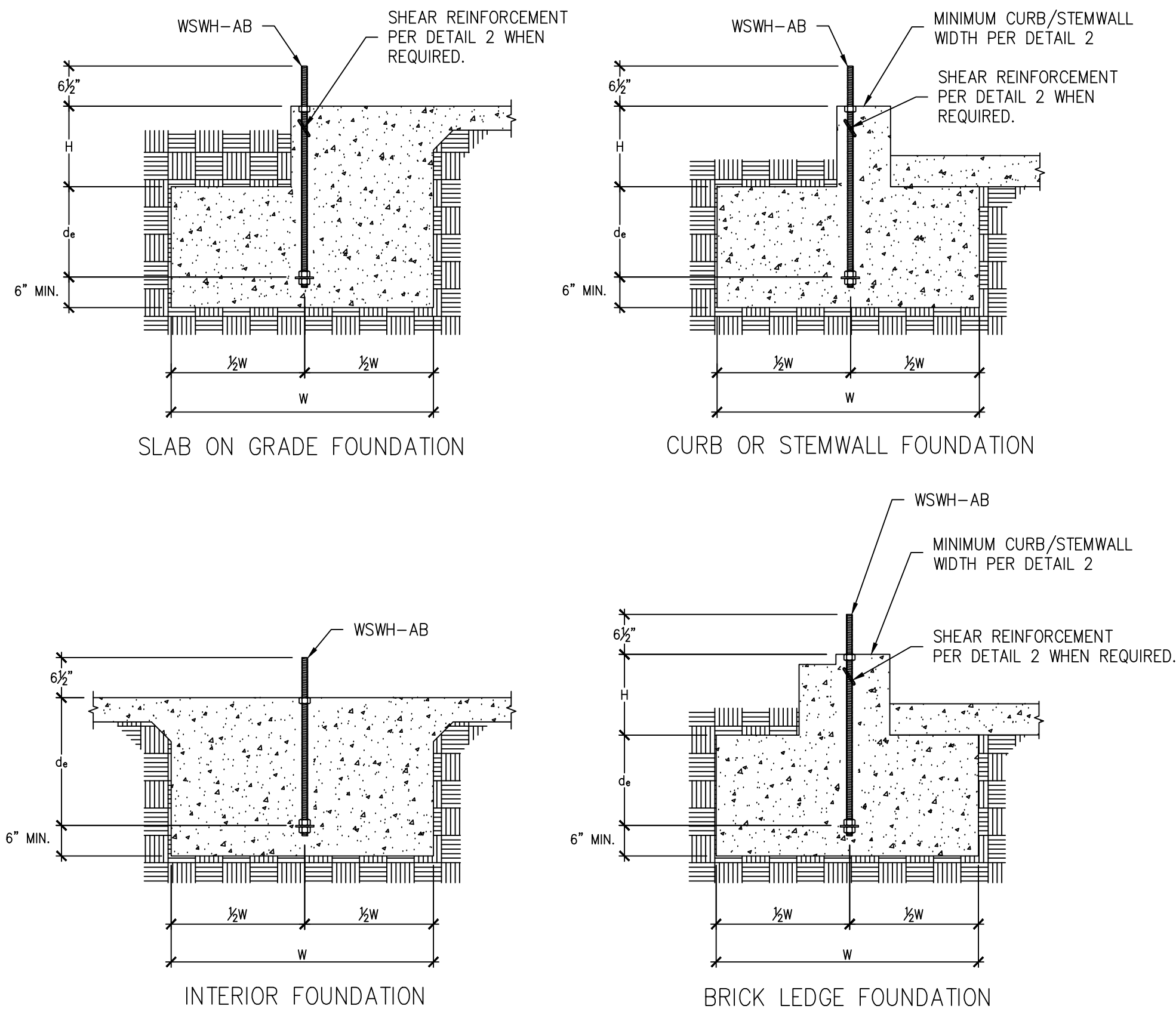
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STRUCTURAL DETAILS 3

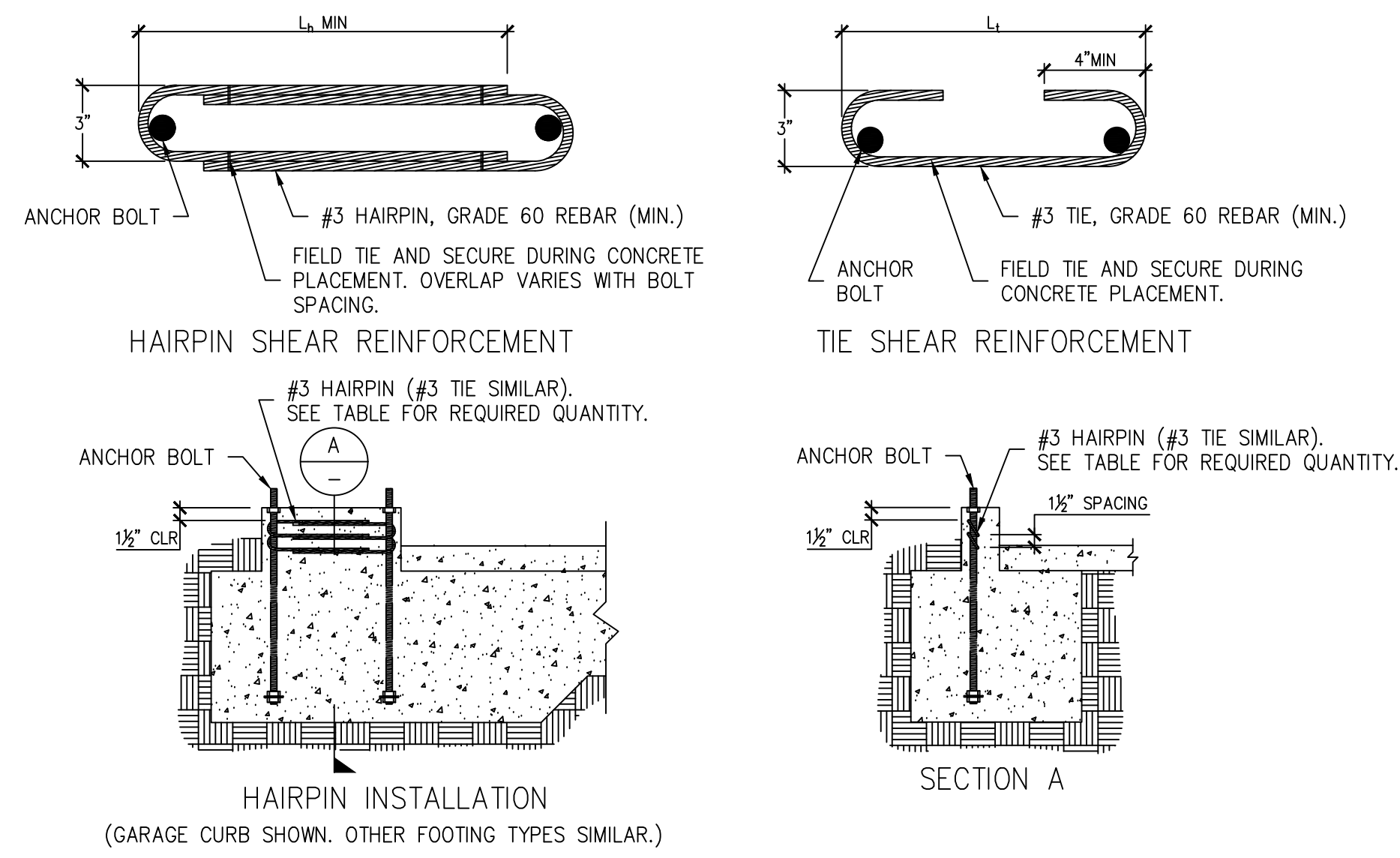


- NOTES:
 1. SEE DETAIL 2 FOR SHEAR REINFORCEMENT WHEN REQUIRED.
 2. MAXIMUM H = $l_e - d_c$. SEE DETAILS 3 AND 4 FOR l_e .



STRONG-WALL® WSWH ANCHORAGE – TYPICAL SECTIONS

1

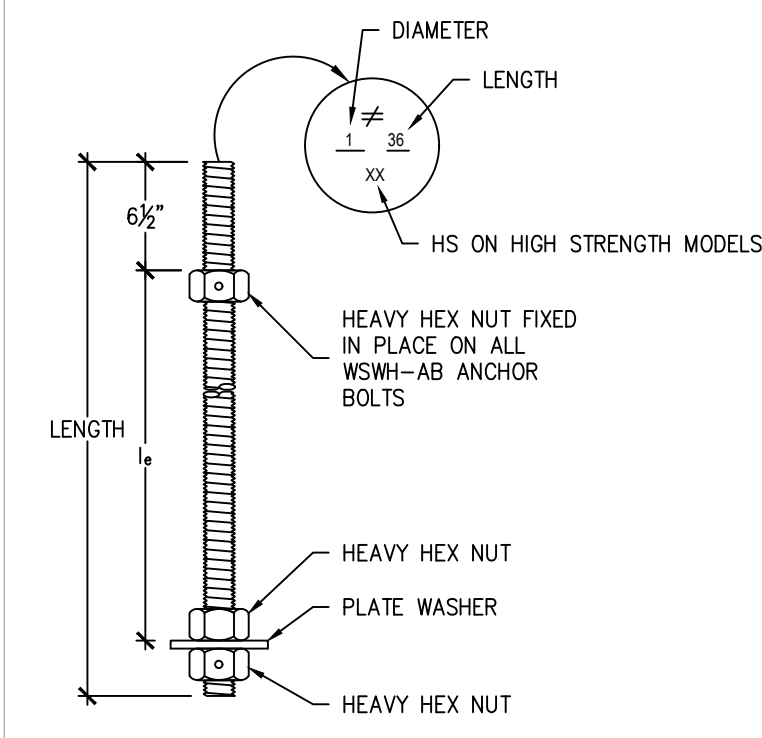


MODEL	STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL SHEAR ANCHORAGE				
	SEISMIC ³			WIND ⁴	
	L_1 OR L_h (in.)	SHEAR REINFORCEMENT	MIN. CURB/STEMWALL WIDTH (in.)	SHEAR REINFORCEMENT	MIN. CURB/STEMWALL WIDTH (in.)
WSWH12	10 $\frac{1}{2}$	(1) #3 TIE	6	SEE NOTE 7	6
WSWH18	15	(2) #3 HAIRPINS ^{5,6}	6	(1) #3 HAIRPIN	6
WSWH24	19	(2) #3 HAIRPINS ⁵	6	(2) #3 HAIRPINS ⁵	6

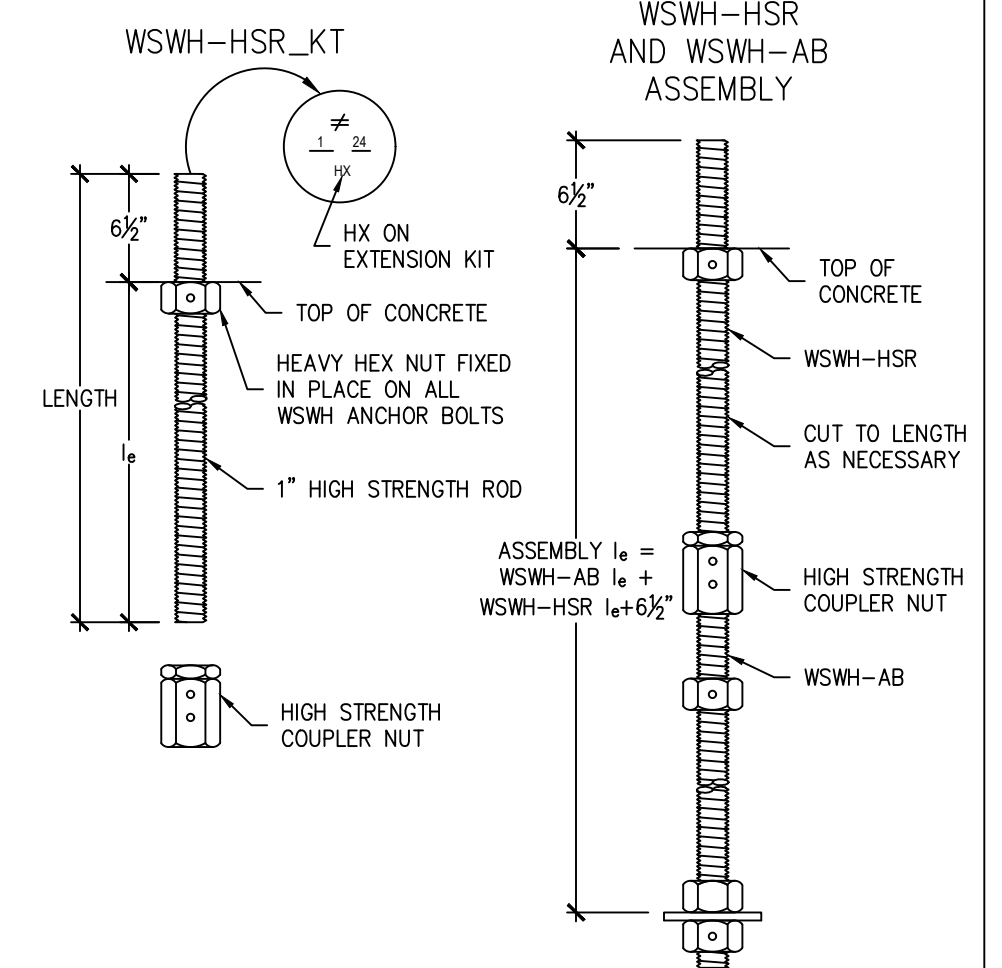
- NOTES:
 1. SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-19, ACI 318-11 AND ACI 318-14 AND ASSUME MINIMUM 2,500 PSI CONCRETE.
 2. SHEAR REINFORCEMENT IS NOT REQUIRED FOR INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE), OR BRACED WALL PANEL APPLICATIONS.
 3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC SHEAR REINFORCEMENT DESIGNS CONFORM TO ACI 318-19, SECTION 17.10.6.3, ACI 318-14, SECTION 17.2.3.5.3
 4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B.
 5. ADDITIONAL TIES MAY BE REQUIRED AT GARAGE CURB OR STEMWALL INSTALLATIONS BELOW ANCHOR REINFORCEMENT PER DESIGNER.
 6. USE (1) #3 HAIRPIN FOR WSWH18 WHEN STANDARD STRENGTH ANCHOR IS USED.
 7. USE (1) #3 TIE FOR WSWH12 WHEN PANEL DESIGN SHEAR FORCE EXCEEDS TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.
 8. #4 GRADE 40 SHEAR REINFORCEMENT MAY BE SUBSTITUTED FOR WSWH SHEAR ANCHORAGE SOLUTIONS.
 9. CONCRETE EDGE DISTANCE FOR ANCHORS MUST COMPLY WITH ACI 318-19 SECTION 17.9.2, ACI 318-14 SECTION 17.7.2 AND ACI 318-11 SECTION D.8.2.

STRONG-WALL® WSWH SHEAR ANCHORAGE SCHEDULE AND DETAILS

2



WSWH PANEL MODEL	MODEL NO.	DIAMETER	LENGTH	l_e
	WSWH-AB1x24	1"	24"	15 $\frac{1}{2}$ "
WSWH12, WSWH18 AND WSWH24	WSWH-AB1x24HS	1"	24"	15 $\frac{1}{2}$ "
	WSWH-AB1x30	1"	30"	21 $\frac{1}{2}$ "
	WSWH-AB1x30HS	1"	30"	21 $\frac{1}{2}$ "
	WSWH-AB1x36	1"	36"	27 $\frac{1}{2}$ "
	WSWH-AB1x36HS	1"	36"	27 $\frac{1}{2}$ "

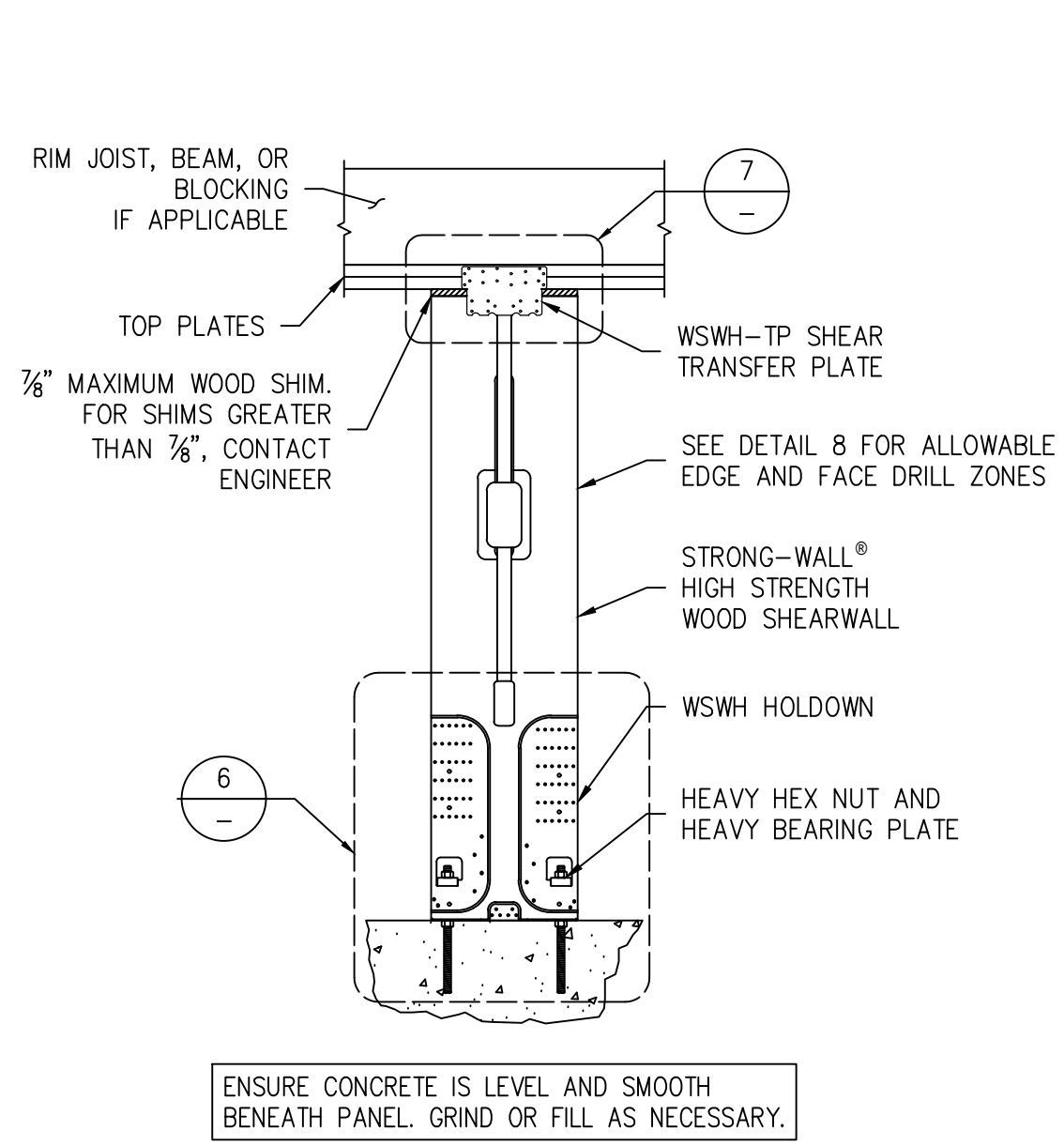


WSWH PANEL MODEL	MODEL NO.	DIAMETER	LENGTH	l_e
WSWH12, WSWH18 AND WSWH24	WSWH-HSR1x24KT	1"	24"	17 $\frac{1}{2}$ "
	WSWH-HSR1x36KT	1"	36"	29 $\frac{1}{2}$ "

WSWH ANCHOR BOLTS

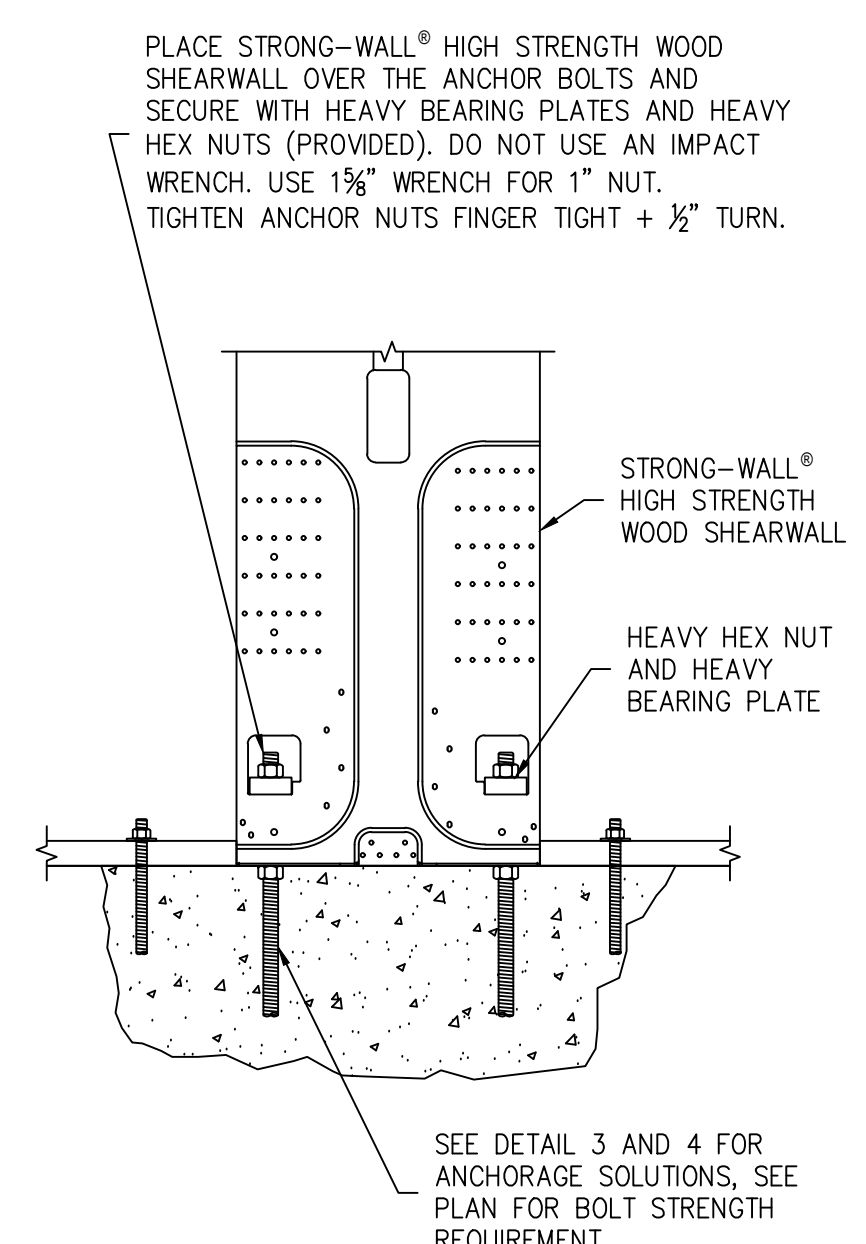
ANCHOR BOLT EXTENSION

4



SINGLE STORY WSWH ON CONCRETE

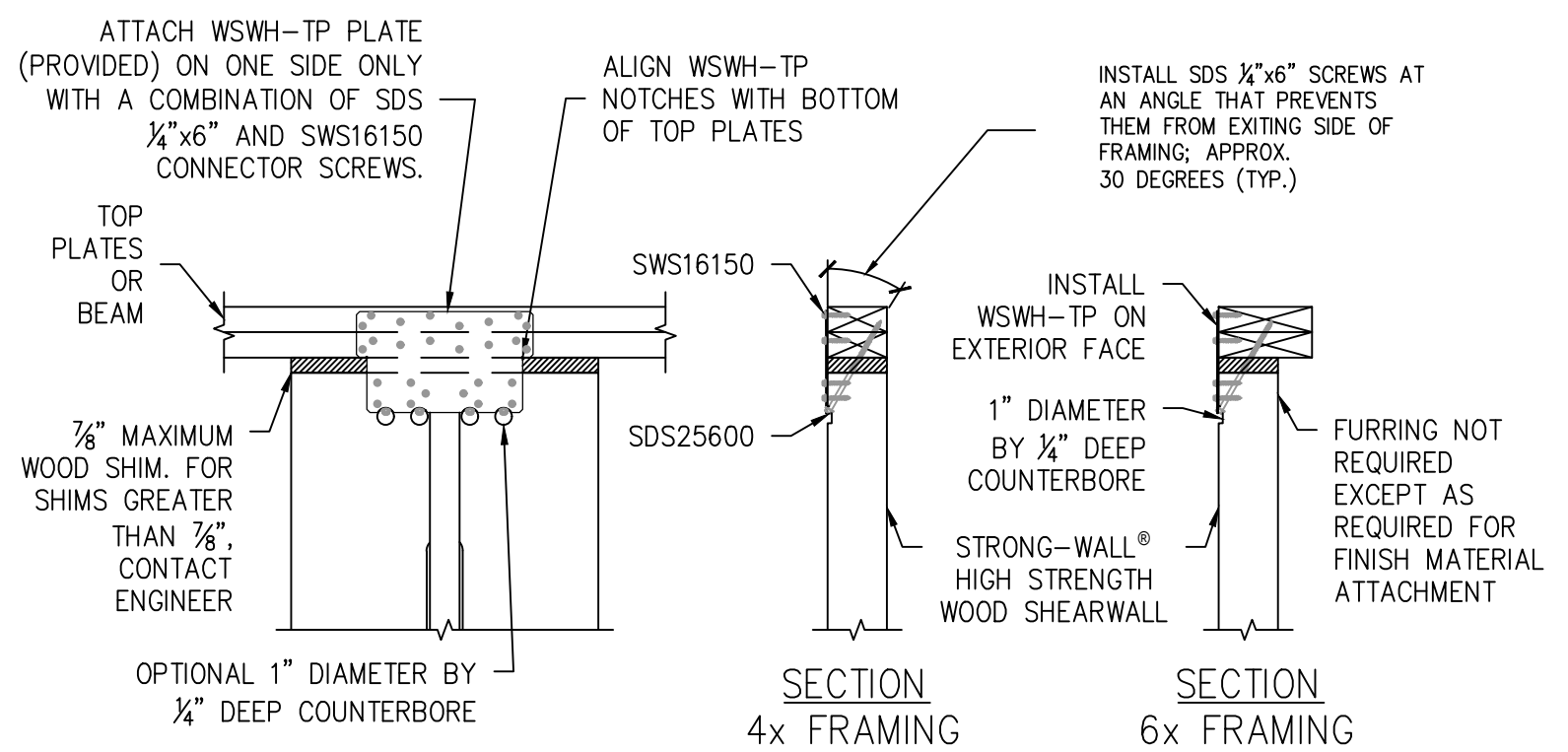
5



BASE CONNECTION

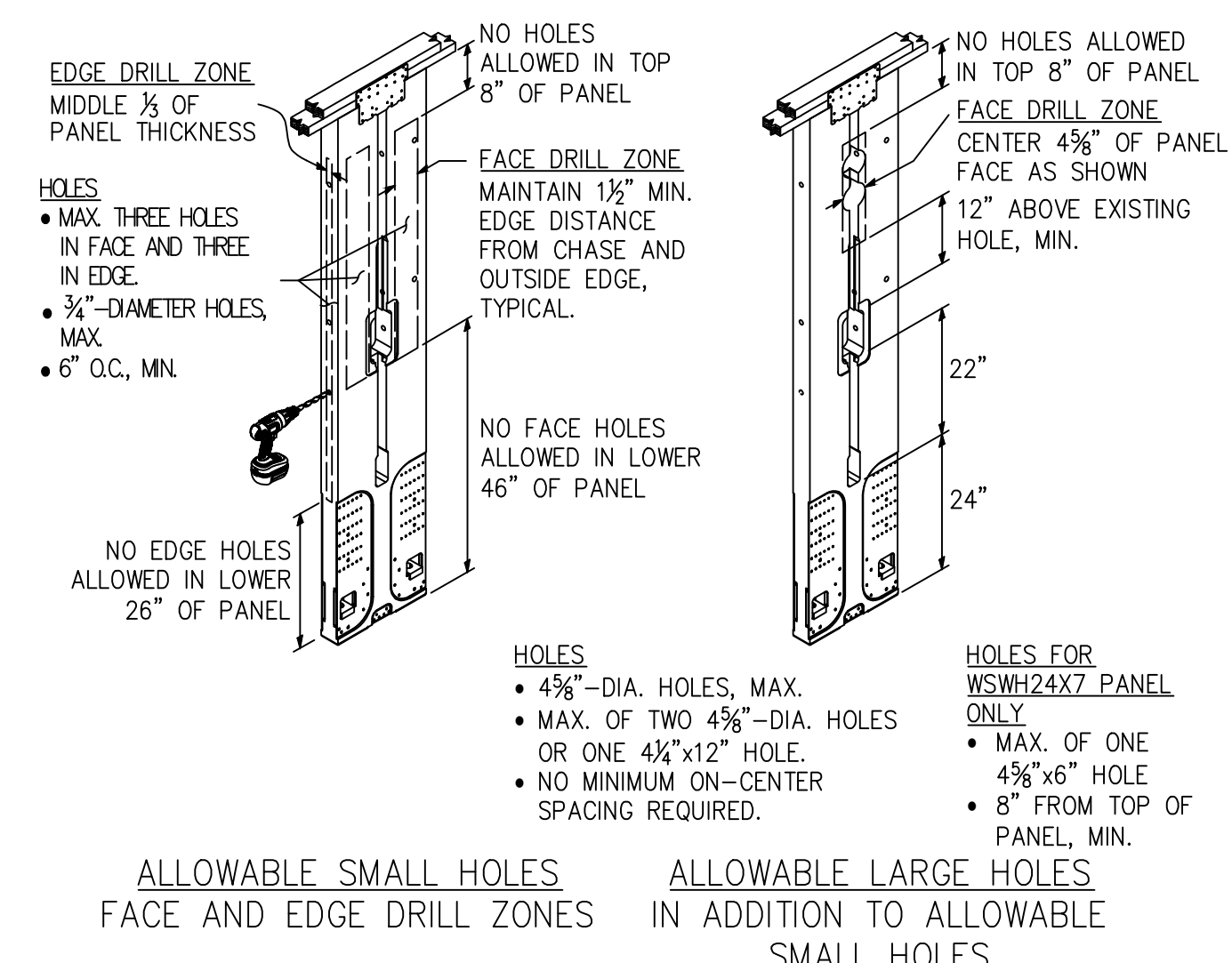
6

MODEL NO.	FASTENER QUANTITY	
	SWS16150	SDS25600
WSWH-TP12	14	2
WSWH-TP18	26	4
WSWH-TP24	46	8



TOP CONNECTION

7



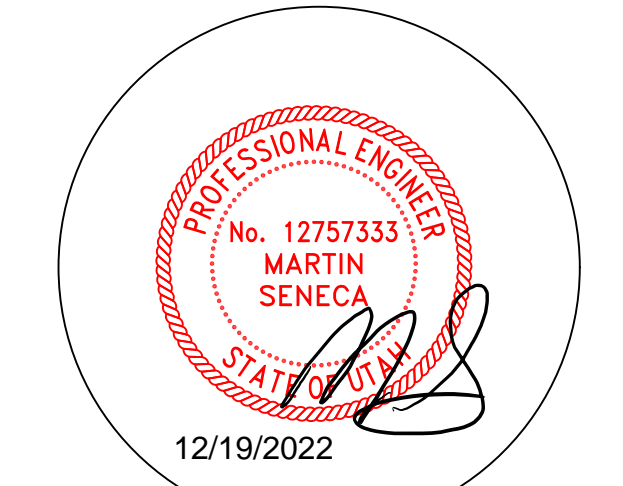
TRIM ZONE AND ALLOWABLE HOLES

8

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Date: **02-17-2022**



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