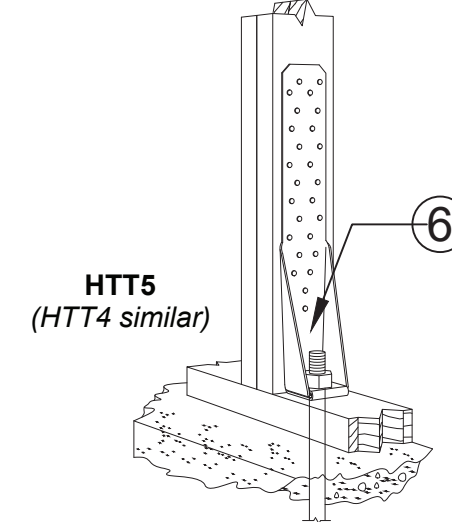


ANCHOR HOLD-DOWN DETAIL
SCALE: NTS



ANCHOR HOLD-DOWN DETAIL
SCALE: NTS

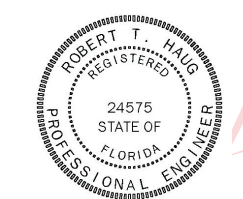
TYPICAL FASTENERS AND CONNECTORS SCHEDULE (SEE DETAILS SHEET S2)			
ID	SIMPSON	DESCRIPTION	FASTENERS
3	SPH4	STUD PLATE TIE, HEAVY	(10)0.148 x 1 1/2"
4	HIOA	HURRICANE TIE	(9)0.148 x 1 1/2"
5	HTS24	HEAVY TWIST STRAP	(16)0.148 x 1 1/2"
6	HTTH	ANCHOR HOLD-DOWN	5/8" ANCHOR BOLT 2 5/8" STUD BOLT
7	MSTA24	MEDIUM STRAP TIE	(18)0.148 x 2 1/2"



concept architectural designs
PO Box 280342
Memphis, Tennessee 38168
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https://tmyurl.com/mtdp4fcd5
BUILDING DESIGN

ROBERT T. HAUG P.E.
CONSULTING ENGINEER FL REG NO. 24575
1619 E. LAWTON LANE LAKELAND,
FLORIDA 33803 PH: 863-687-4225

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REVISIONS

NO.	DATE	DESCRIPTION

SITE BUILT LEAN-TO SHED

7747 NATURE TRAIL
LAKELAND, FLORIDA
33803

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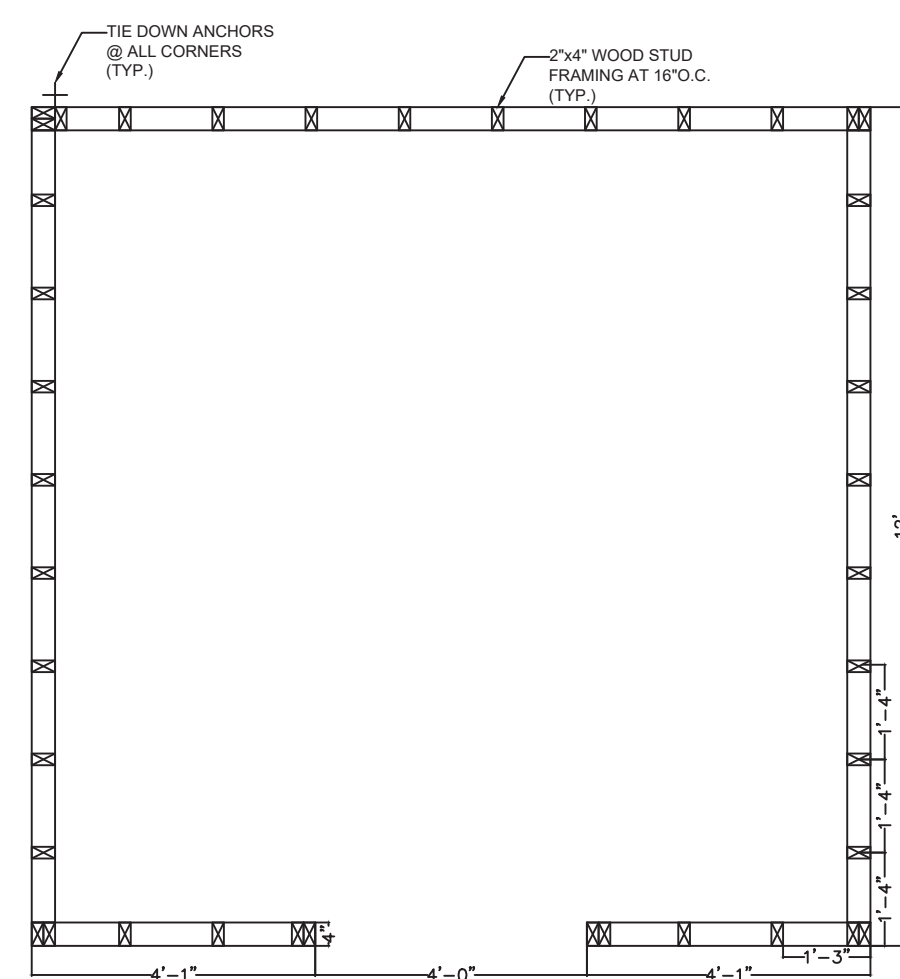
PROJECT No: 060225.003

DATE: June 02, 2025

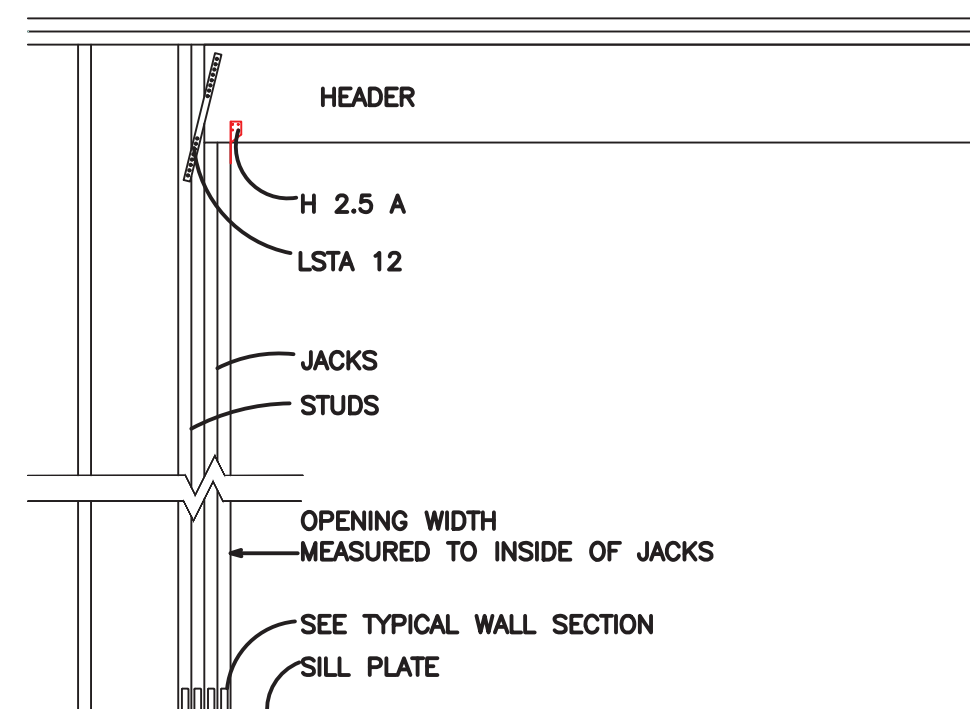
FLOOR PLAN
ELEVATIONS
FOUNDATION
DETAILS

SHEET NO:

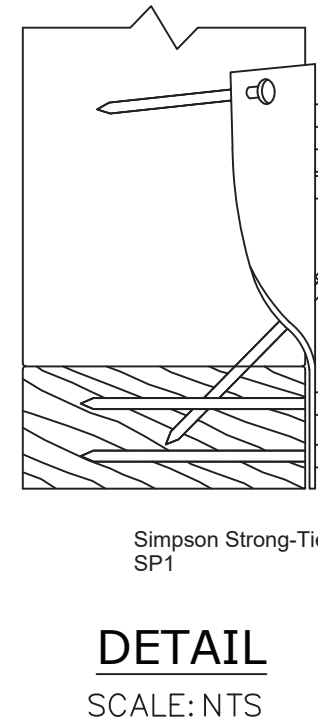
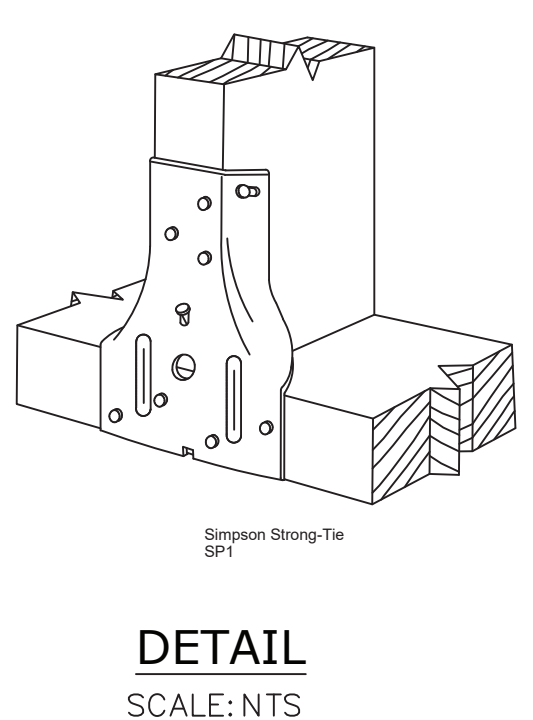
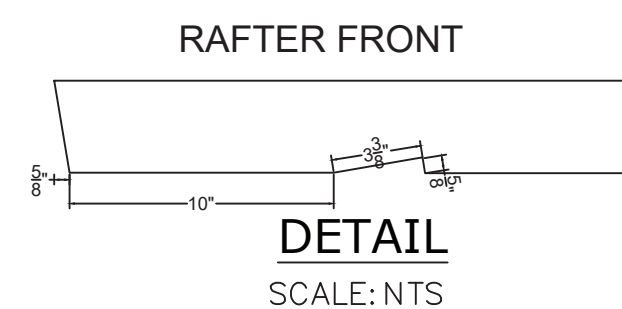
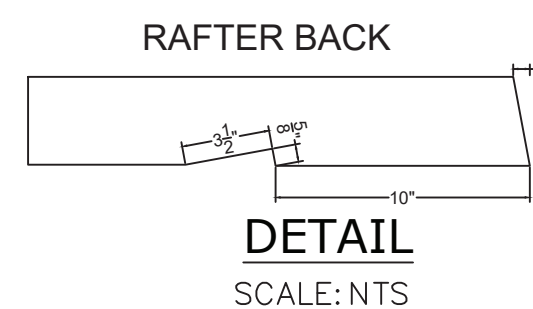
A1



WALL FRAMING PLAN
SCALE: 3/8"=1'-0"



Opening Width	# of Jacks	# of Studs	Min Header Size
Up to 4'	1	1 (2)	2x4



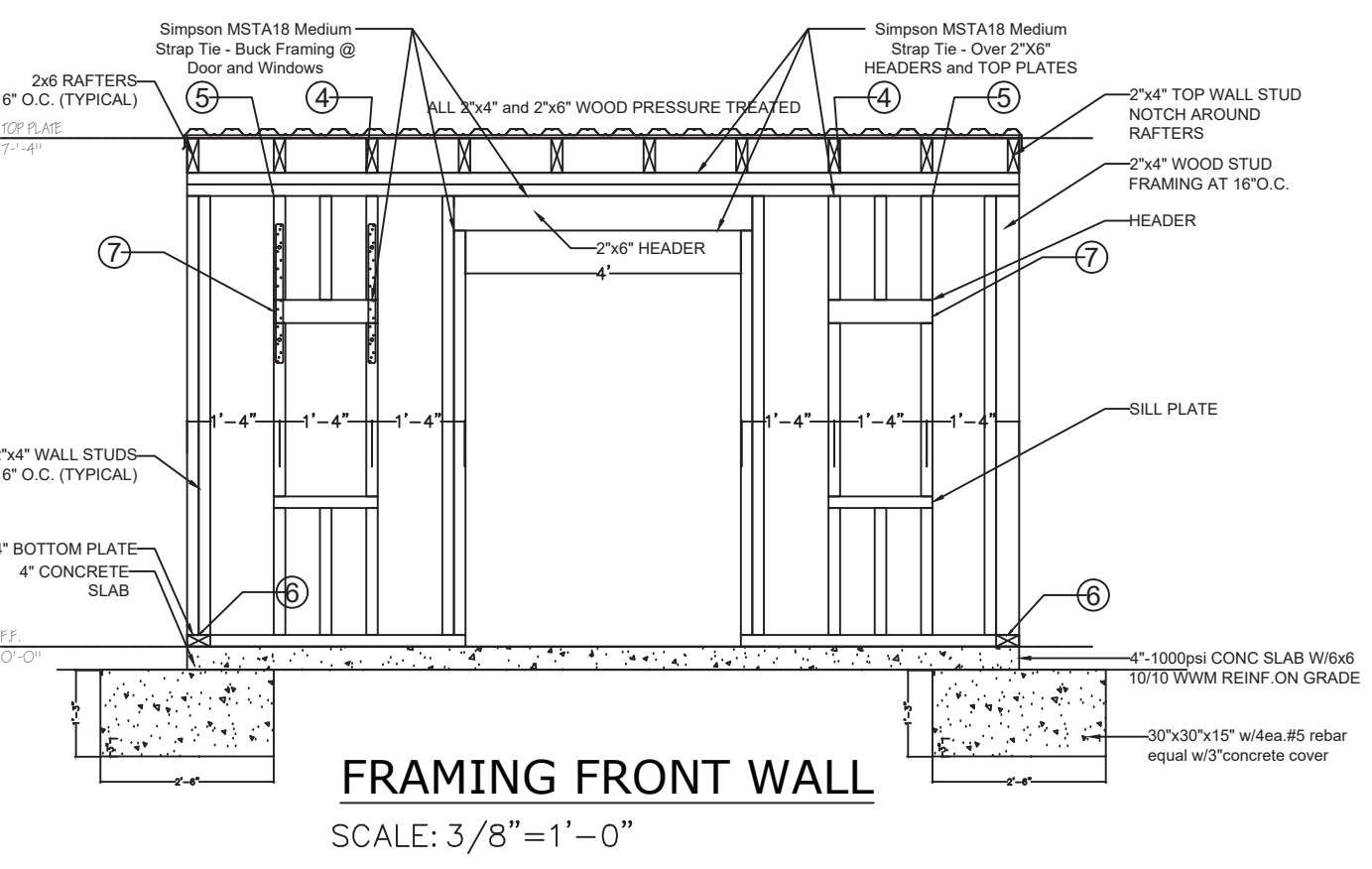
- SECTION 1: GENERAL NOTES
- THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE (8TH EDITION), INCLUDING SECTION 1609 FOR WIND DESIGN, AND ASCE 7-22 WHERE APPLICABLE.
 - ALL CONSTRUCTION, MATERIALS, AND INSTALLATIONS SHALL COMPLY WITH THE FLORIDA BUILDING CODE (2023), APPLICABLE POLK COUNTY AMENDMENTS, AND ALL CURRENT LOCAL ORDINANCES IN EFFECT AT THE TIME OF CONSTRUCTION.
 - WRITTEN DIMENSIONS ON THE DRAWINGS SHALL GOVERN. DO NOT SCALE PLANS.
 - FRAMING MEMBER SPACING SHALL NOT EXCEED THE MAXIMUMS INDICATED ON THE PLANS. OVERALL EXTERIOR DIMENSIONS MAY VARY SLIGHTLY WITHIN ALLOWABLE CONSTRUCTION TOLERANCES.
 - LUMBER SHALL BE SOUTHERN YELLOW PINE (S.Y.P.), KILN-DRIED TO 12-15% MOISTURE CONTENT, AND GRADED AS FOLLOWS:
 - WALL STUDS & ROOF RAFTERS: 2x4 S.Y.P. #1 AT 16" O.C. MAXIMUM.
 - IF S.Y.P. #2 IS USED, FRAMING WITHIN 3'-0" OF CORNERS SHALL BE SPACED AT 12" O.C. MAX; REMAINDER OF WALL/ROOF FRAMING MAY BE SPACED AT 16" O.C. MAX.
 - ROOF RAFTERS SHALL ALIGN DIRECTLY OVER WALL STUDS AND MATCH THEIR SPACING.
 - THE ROOF SLOPE SHALL COMPLY WITH MANUFACTURER REQUIREMENTS FOR 29-GAUGE METAL ROOFING. MINIMUM SLOPE IS TYPICALLY 1:12, BUT MUST MEET APPROVED PRODUCT LISTING.
 - WHEN METAL ROOFING PANELS ARE INSTALLED VERTICALLY, SOLID 1x4 PURLINS OR HAT CHANNEL FURRING STRIPS MAY BE USED, SPACED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND FASTENED PER ENGINEERED PRODUCT APPROVAL.
 - ALL FASTENERS INTO PRESSURE-TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL, AS REQUIRED BY FBC SECTION 2304.10.5.
 - ALL MATERIALS SHALL BE INSTALLED PER THEIR MANUFACTURER'S INSTRUCTIONS TO ENSURE COMPLIANCE WITH FLORIDA PRODUCT APPROVALS OR MIAMI-DADE NOAS.
 - THIS STRUCTURE IS NOT TO BE USED FOR STORAGE OF FLAMMABLE, HAZARDOUS, OR COMBUSTIBLE MATERIALS.
 - ALL DOORS SHALL BE OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, IN ACCORDANCE WITH FBC RESIDENTIAL SECTION R311.
 - THE MAXIMUM WALL HEIGHT SHALL BE 8'-0". FRAMING SPACING FOR WALLS ≤ 7'-0" MAY BE INCREASED TO 24" O.C. ONLY IF NOT LOCATED NEAR CORNERS.
 - ALL APPROVED PRODUCTS (ROOFING, FASTENERS, ANCHOR CONNECTORS, ETC.) MUST BE FLORIDA PRODUCT APPROVED OR HAVE EQUIVALENT CERTIFICATION.

- SECTION 2: SITE INSTALLED ITEMS
- THE FOLLOWING ITEMS ARE TO BE PROVIDED AND INSTALLED BY OTHERS AND ARE NOT INCLUDED IN THESE DRAWINGS:
 - CONCRETE SLAB WITH FOUR (4) 30"x30"x15" FOOTINGS AT EACH CORNER, WITH (4) #5 REINFORCING BARS PER FOOTER.
 - SITE LEVELING, GRADING, AND COMPACTION.
 - ALL ELECTRICAL SERVICE CONNECTIONS (IF APPLICABLE).
 - ROOF DRAINAGE SYSTEM (GUTTERS/DOWNSPOUTS), PER FBC 2023 SECTION R801.3.
 - ALL SITE-RELATED ITEMS ARE SUBJECT TO POLK COUNTY PERMITTING AND INSPECTION REQUIREMENTS.

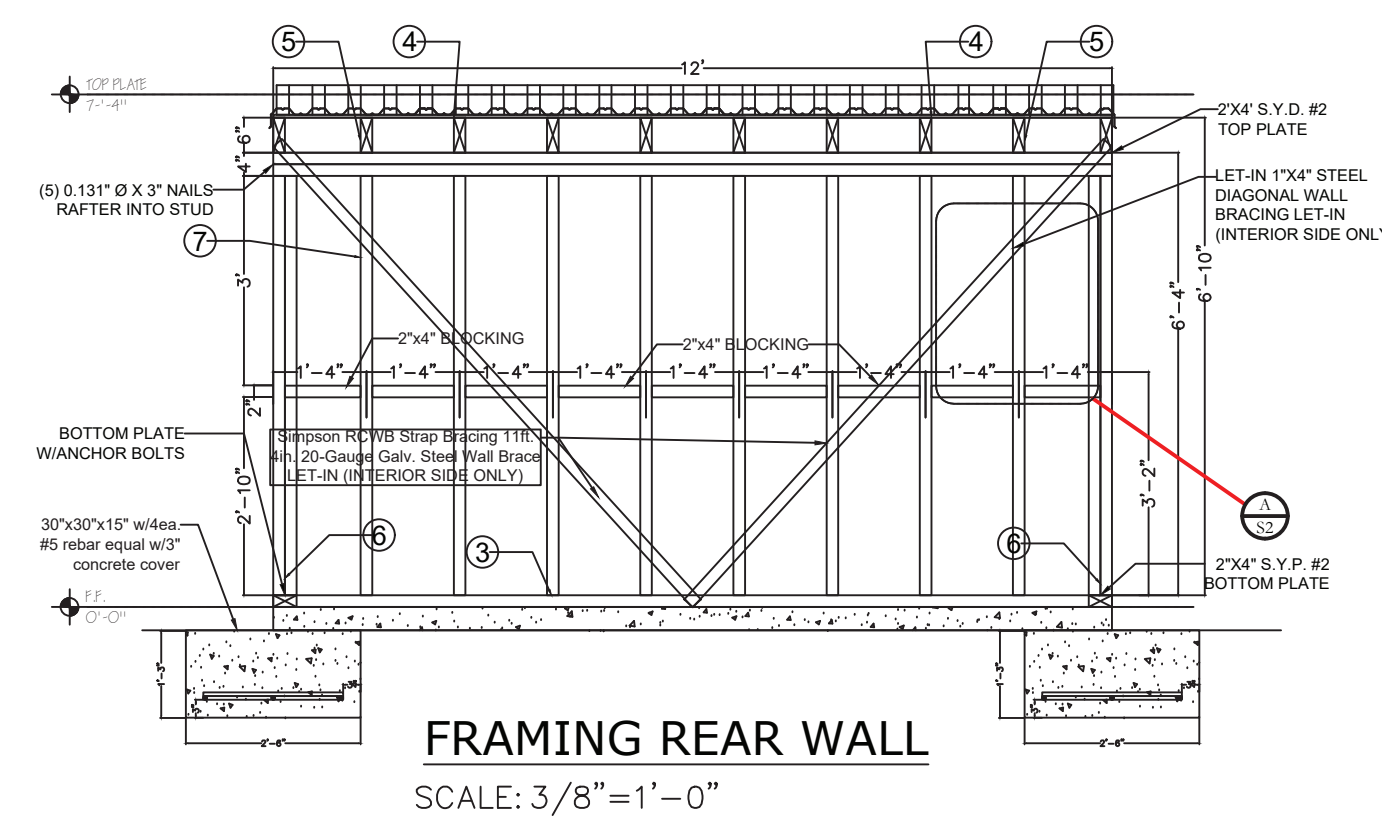
- SECTION 3: FOUNDATION & SLAB REQUIREMENTS
- FOOTINGS SHALL BE 30"x30"x15" CONCRETE PADS AT EACH SHED CORNER, REINFORCED WITH (4) #5 REBAR TIED CONTINUOUSLY.
 - CONCRETE SLAB SHALL BE 4" THICK, CAST-IN-PLACE OVER COMPACTED FILL, WITH WELDED WIRE FABRIC (6x6 W1.4/W1.4 MIN) AT MID-SLAB HEIGHT, UNLESS SYNTHETIC FIBERS ARE USED.

- TOP OF SLAB SHALL BE A MINIMUM OF 8" ABOVE FINISHED GRADE PER FBC R404.1.6.
- ALL FOOTINGS SHALL BEAR A MINIMUM OF 12" BELOW FINISHED GRADE.
- CONCRETE COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 2,500 PSI AT 28 DAYS.
- GRANULAR FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-99. CLAY OR ORGANIC SOILS ARE NOT ACCEPTABLE.
- A 6-MIL POLYETHYLENE VAPOR BARRIER SHALL BE INSTALLED UNDER THE SLAB IN ACCORDANCE WITH FBC R506.2.3.
- TERMITE TREATMENT OF ALL SOIL UNDER THE SLAB IS REQUIRED. A "CERTIFICATE OF TERMITE TREATMENT" SHALL BE POSTED AT THE JOB SITE PER FBC R318.1 AND FBC 105.10.
- PROVIDE (1) #5 COPPER-CLAD GROUND WIRE TIED TO SLAB REINFORCEMENT AND ROUTED TO ELECTRICAL SERVICE PANEL, PER NEC AND FBC ENERGY CODE GROUNDING REQUIREMENTS.

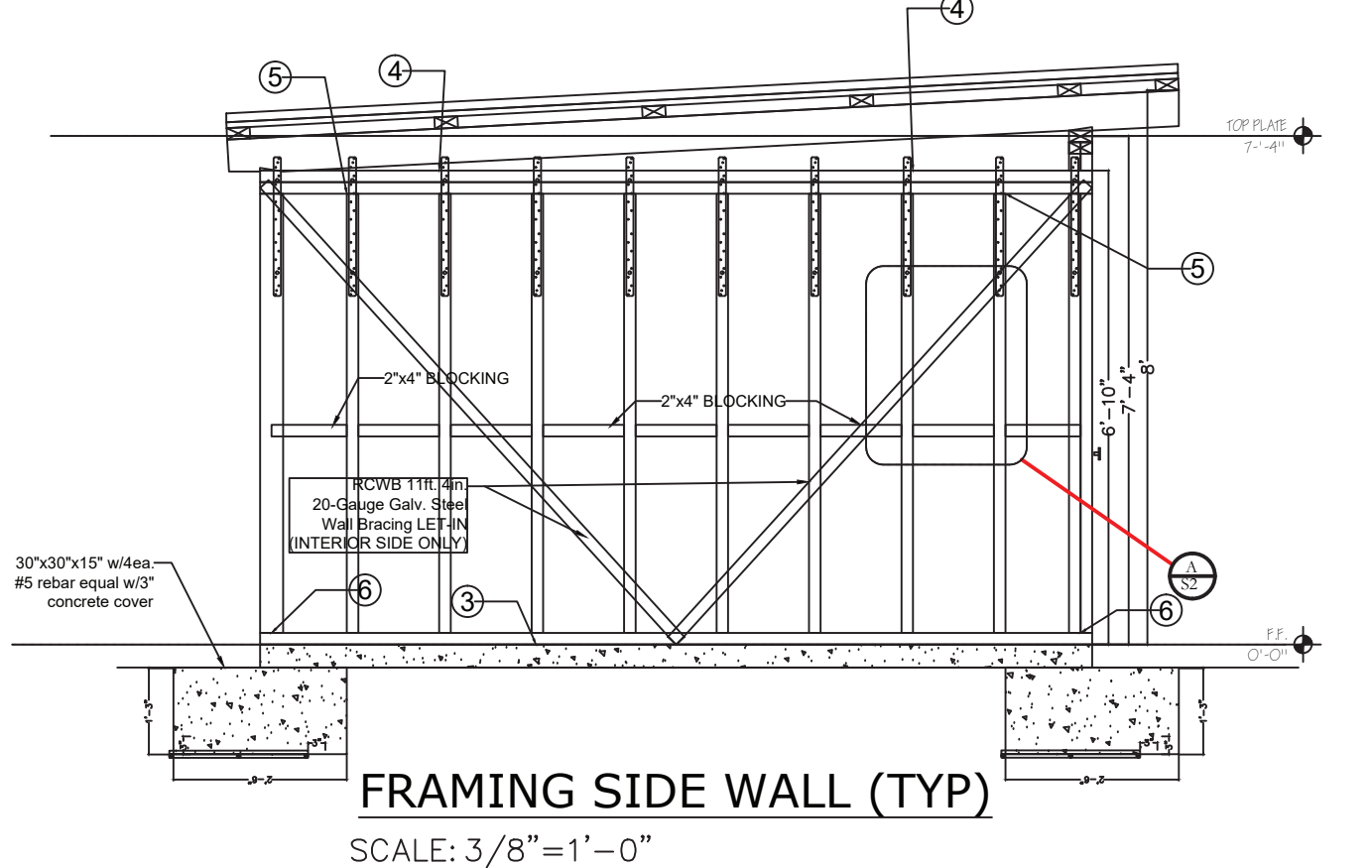
- SECTION 4: FASTENERS & CONNECTORS
- ALL FRAMING CONNECTIONS SHALL USE GALVANIZED OR STAINLESS-STEEL FASTENERS RATED FOR PRESSURE-TREATED WOOD AND EXTERIOR EXPOSURE, PER FBC 2304.10.5.
 - NAILS SHALL CONFORM TO FBC TABLE 2304.10.1 AND NDS TABLE 12.3B FOR WOOD CONSTRUCTION. EXAMPLE: 8D = 2 1/2" X 0.131" DIA.



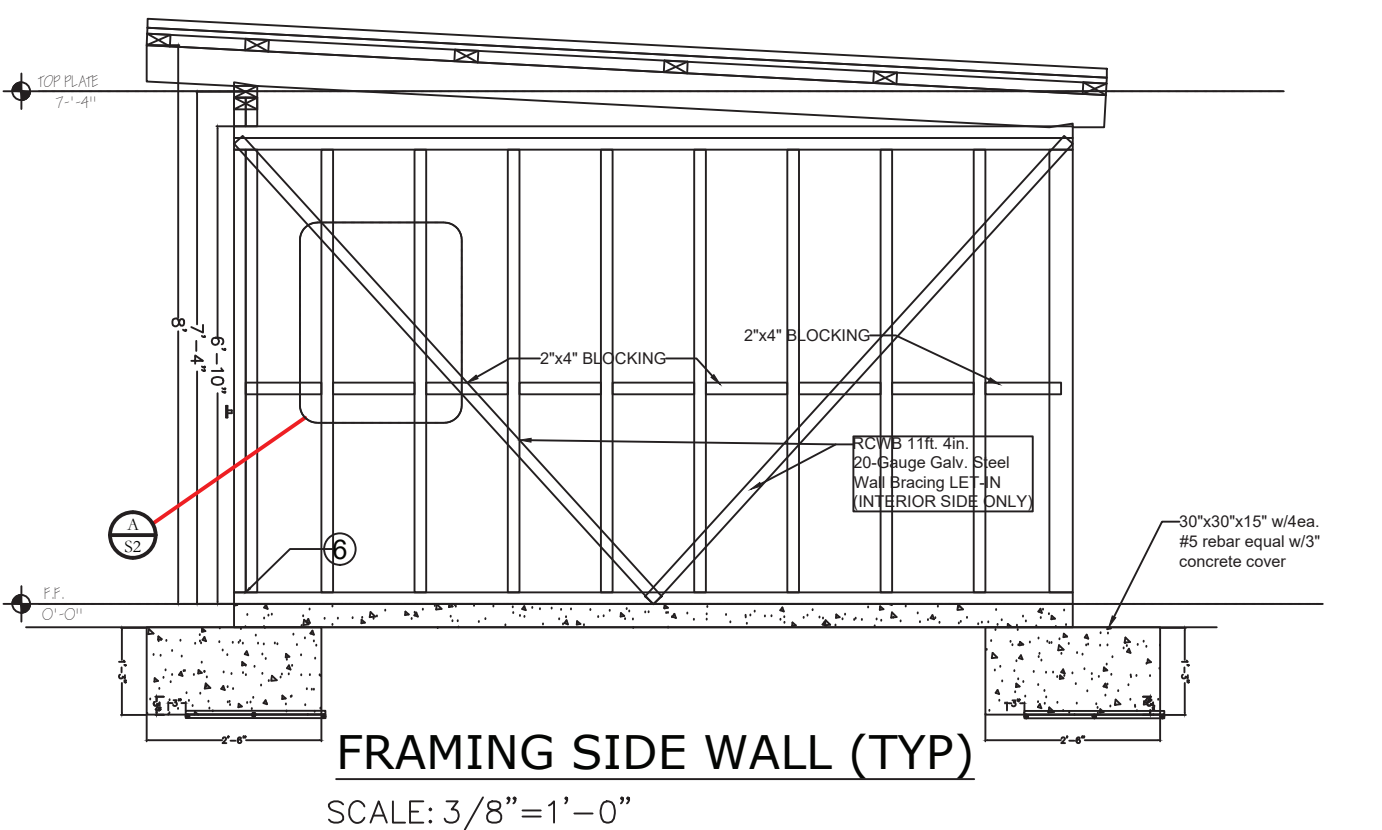
FRAMING FRONT WALL
SCALE: 3/8"=1'-0"



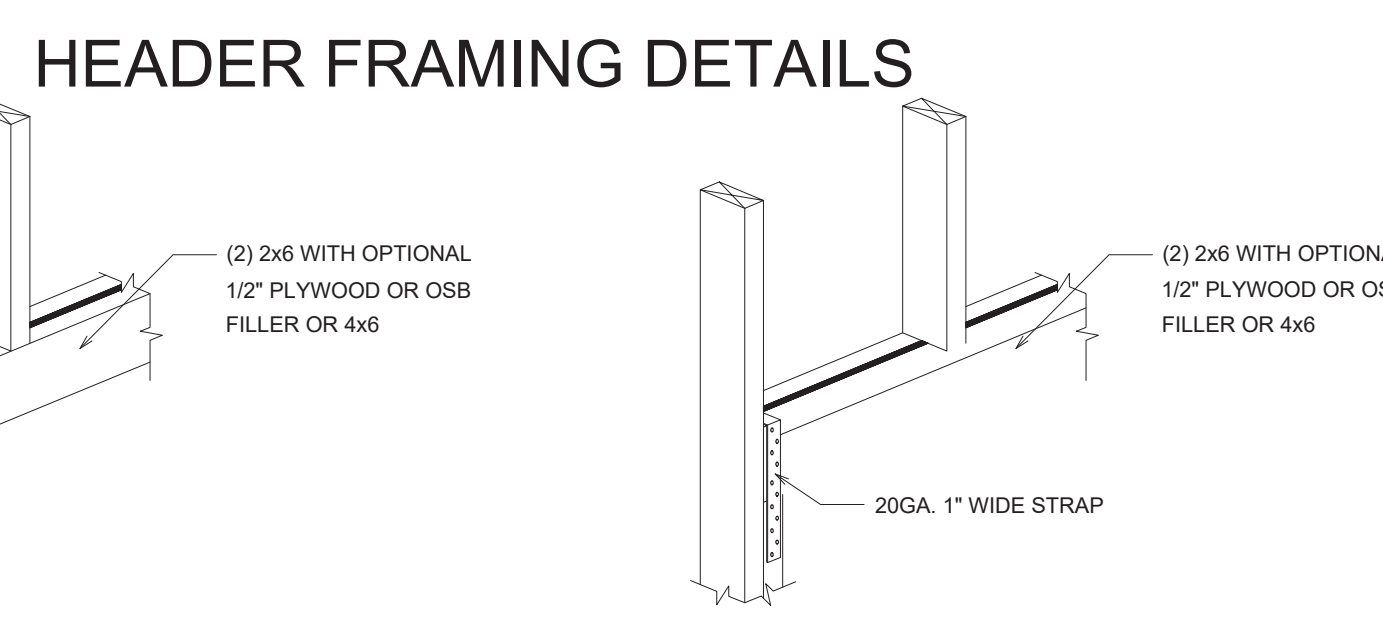
FRAMING REAR WALL
SCALE: 3/8"=1'-0"



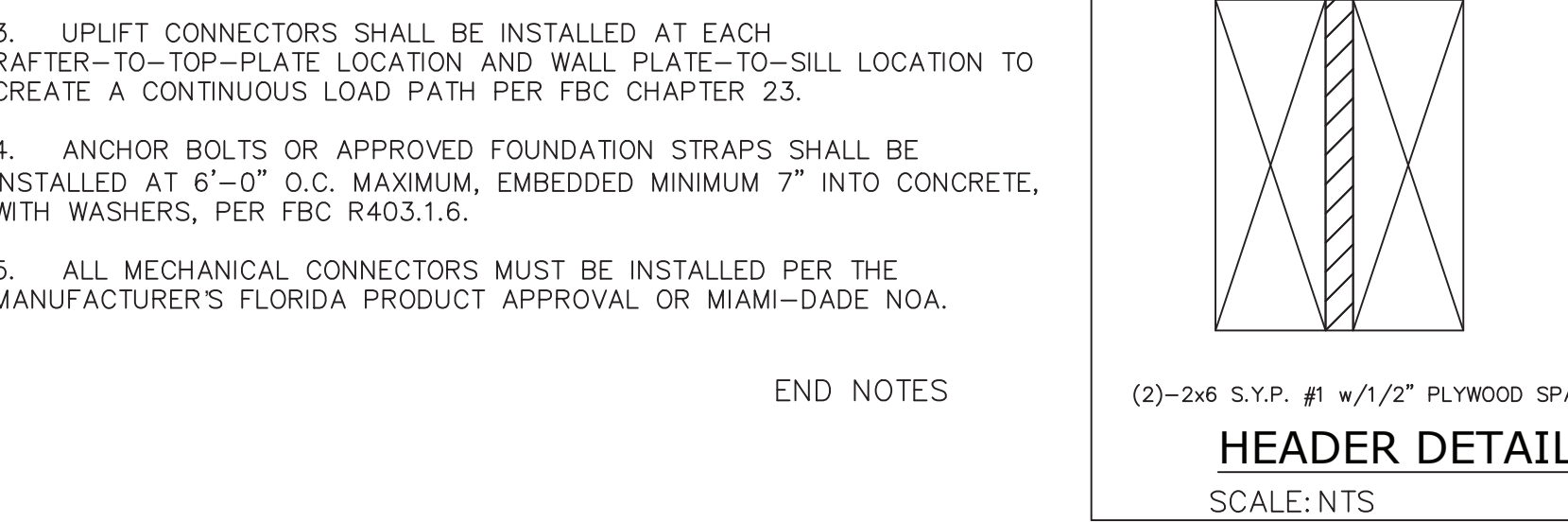
FRAMING SIDE WALL (TYP)
SCALE: 3/8"=1'-0"



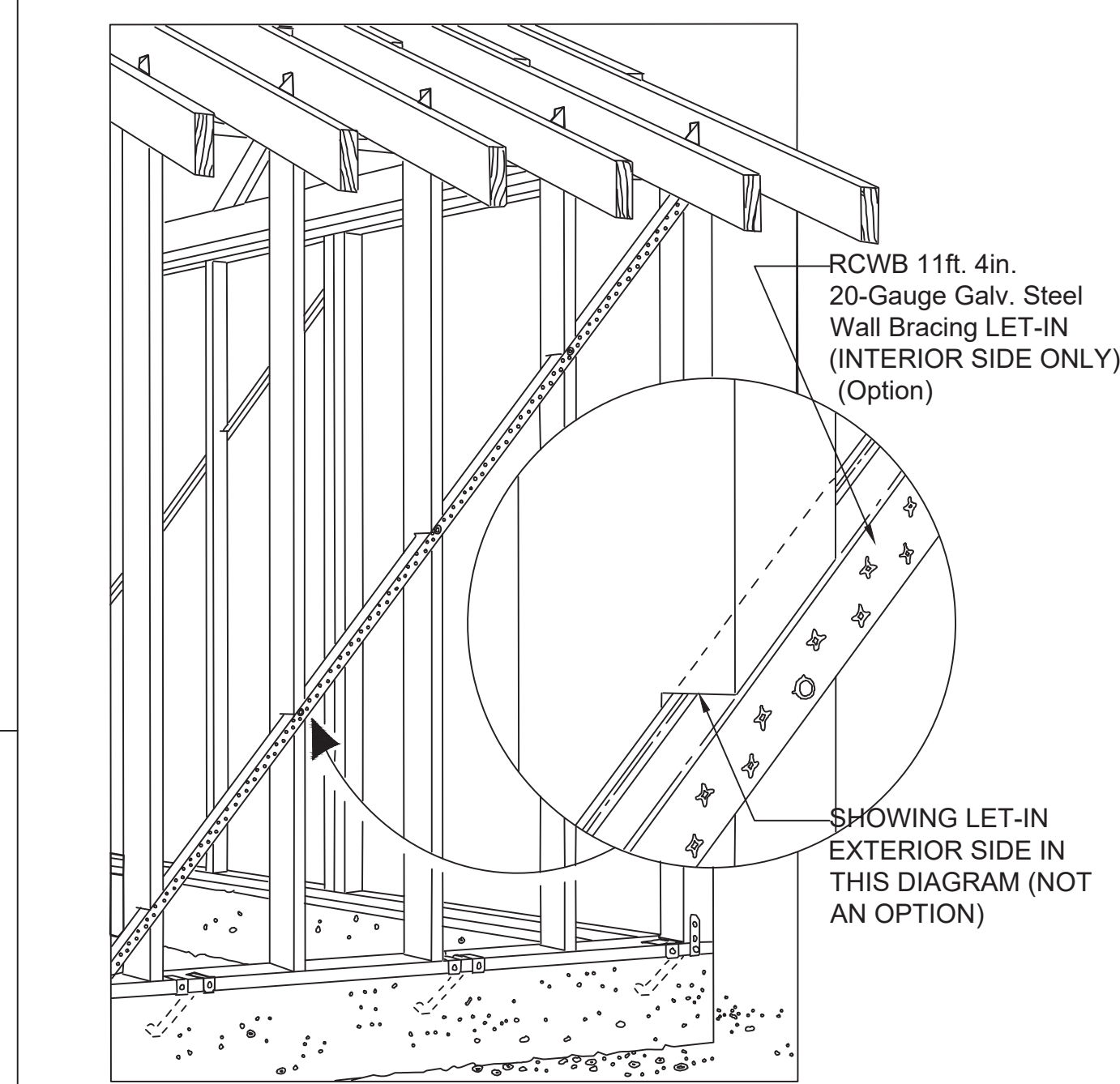
FRAMING SIDE WALL (TYP)
SCALE: 3/8"=1'-0"



HEADER FRAMING DETAILS
SCALE: NTS



HEADER DETAIL
SCALE: NTS



STEEL WALL BRACE
SCALE: 3/4"=1'-0"

- END NOTES
- UPLIFT CONNECTORS SHALL BE INSTALLED AT EACH RAFTER-TO-TOP-PLATE LOCATION AND WALL PLATE-TO-SILL LOCATION TO CREATE A CONTINUOUS LOAD PATH PER FBC CHAPTER 23.
 - ANCHOR BOLTS OR APPROVED FOUNDATION STRAPS SHALL BE INSTALLED AT 6'-0" O.C. MAXIMUM, EMBEDDED MINIMUM 7" INTO CONCRETE, WITH WASHERS, PER FBC R403.1.6.
 - ALL MECHANICAL CONNECTORS MUST BE INSTALLED PER THE MANUFACTURER'S FLORIDA PRODUCT APPROVAL OR MIAMI-DADE NOA.

PRODUCT APPROVAL SPECIFICATION LIST (FLORIDA)

CATEGORY/SUB-CATEGORY	MANUFACTURER, MODEL NUMBER/SERIES	DESCRIPTION	FL PRODUCT APPROVAL NUMBER
STRUCTURAL COMPONENTS			
WOOD CONNECTORS	SIMPSON STRONG TIES, SPH4	STUD PLATE TIE, HEAVY	FL10456
WOOD CONNECTORS	SIMPSON STRONG TIES, HIOA	HURRICANE TIE	FL10456, FL10446
WOOD CONNECTORS	SIMPSON STRONG TIES, HTS24	HEAVY TWIST STRAP	FL10456, FL13872
WOOD CONNECTORS	SIMPSON STRONG TIES, MST24	MEDIUM STRAP TIE	FL10456, FL13872
WOOD ANCHORS	SIMPSON STRONG TIES, HTTH	ANCHOR HOLD-DOWN	FL13872, FL11496
SHEDS	---	---	---

AS REQUIRED BY FLORIDA STATUTE 553.842 AND FLORIDA ADMINISTRATIVE CODE 61G20-3



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NO.	DESCRIPTION

SITE BUILT LEAN-TO SHED
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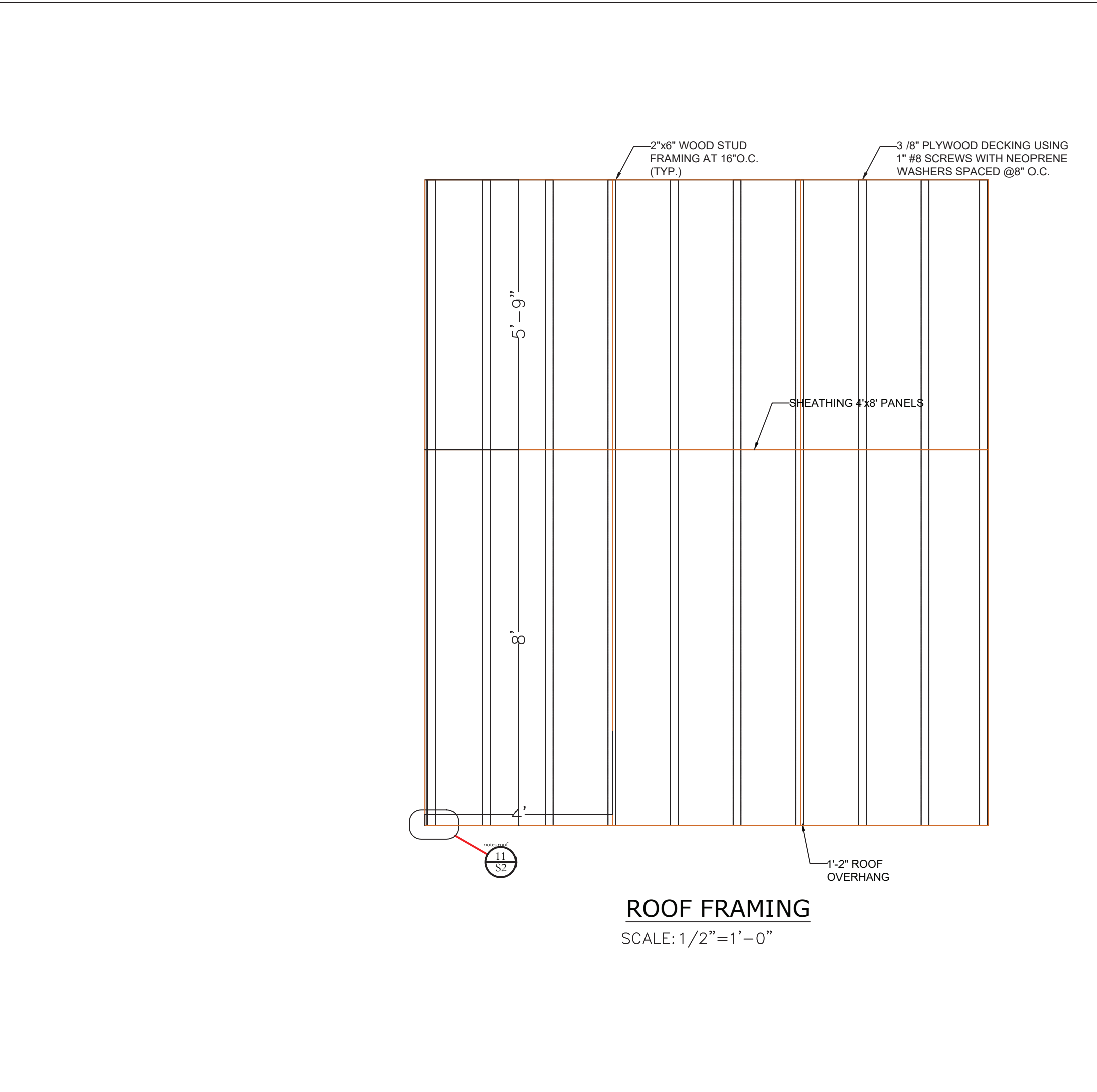
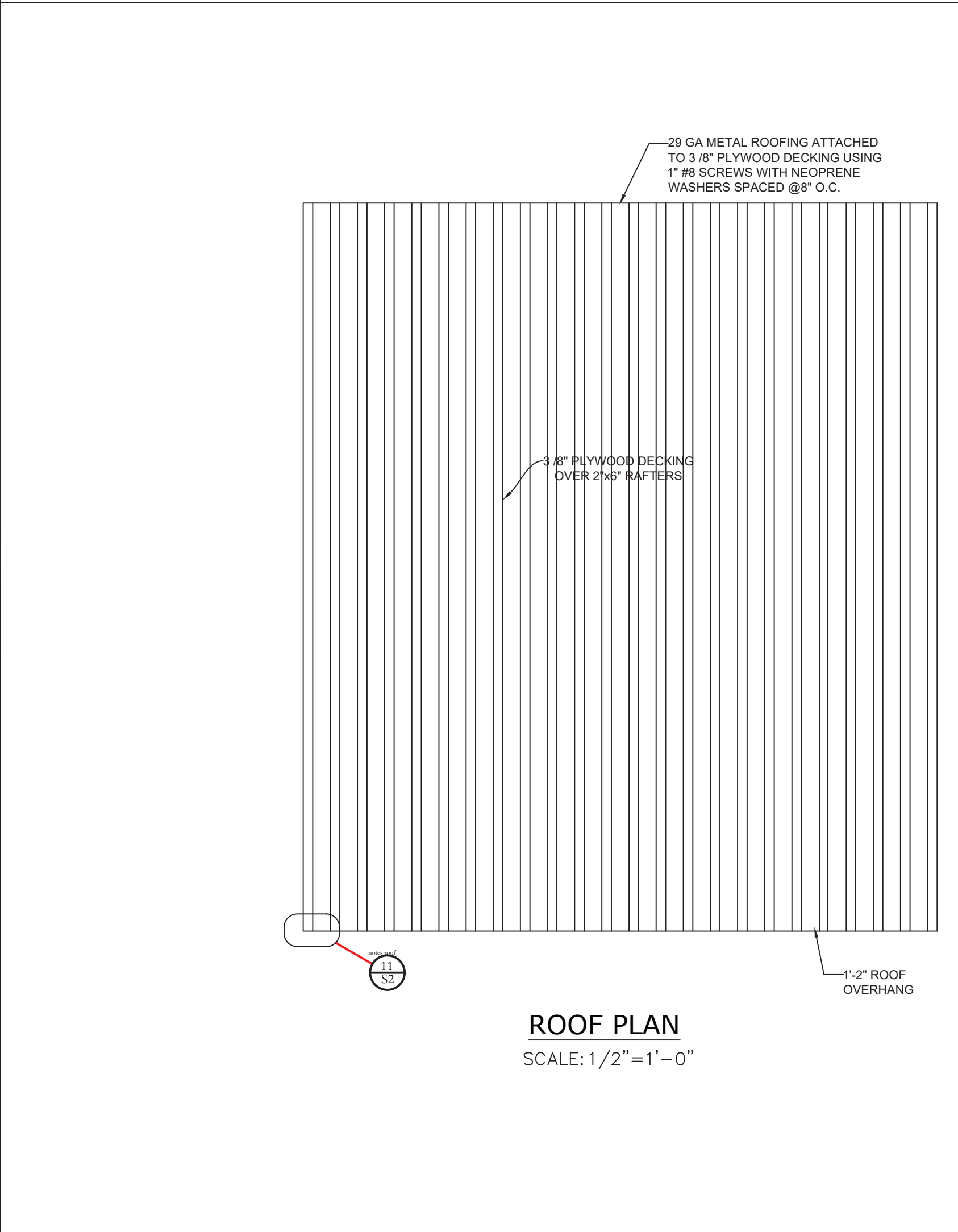
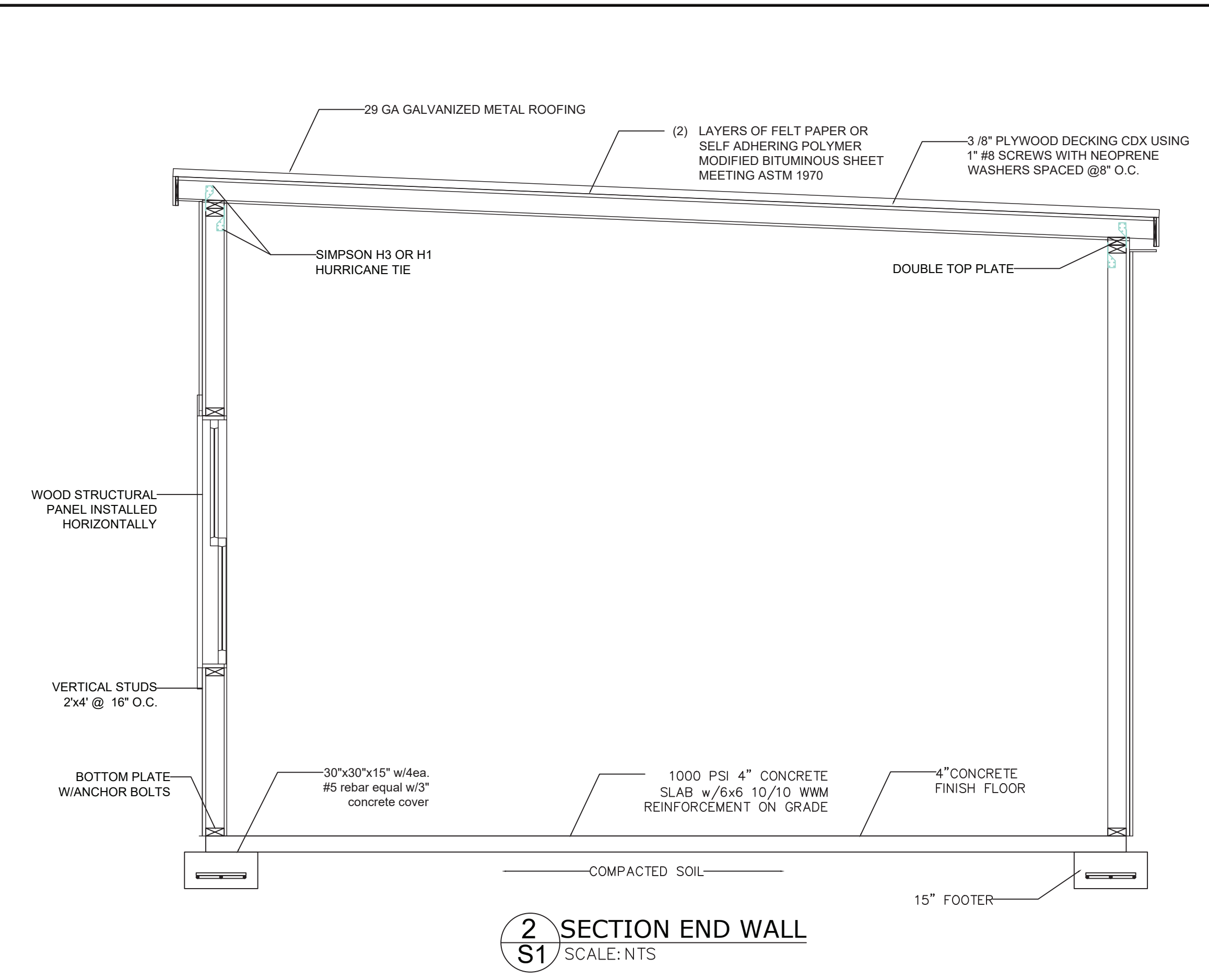
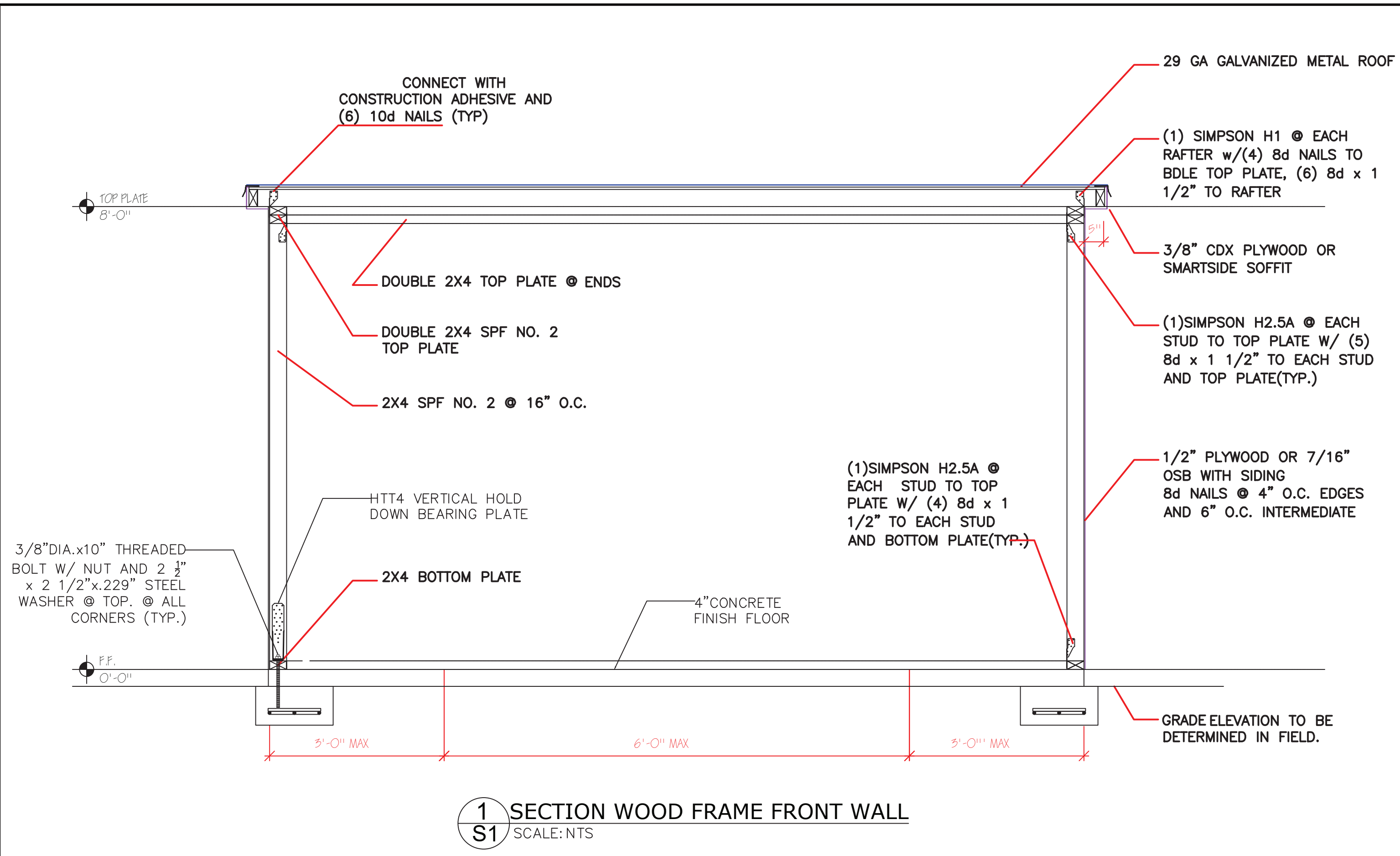
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PROJECT No: **060225.003**

DATE: **June 02, 2025**

FRAMING PLAN
FRAMING ELEVATION
FRAMING DETAILS

SHEET NO:
A2



ROOF SHEATHING FASTENING NOTES

NAILING:
ALL ZONES: USE 8D RINGSHANK NAILS 4" O.C. EDGE & 4" INTERMEDIATE
NOTE:
IF PNEUMATIC NAILS ARE USED, USE A PASLODE OR EQUIVALENT, 2-3/8"x0.113 THREADED, COATED NAIL IN LIEU OF 8D RINGSHANK NAILS CALLED FOR ABOVE.

ROOF COVERAGE

29 GA GALVANIZED METAL ROOF OR SHINGLES SHALL COMPLY WITH ASTM D 7158 CLASS H OR ASTM D 3161 CLASS F OR TAS 107 OR AND R905.2.6.1 & TABLE R905.2.6.1. ROOFING SHALL HAVE FLORIDA OR MIAMI - DADE PRODUCT APPROVAL FOR ULT WIND SPEED OF 180 MPH. INSTALL PER MANUFACTURER'S INSTRUCTIONS

SHEATHING REQUIREMENTS

SHINGLE OR METAL ROOF:
7/16" OR 1/2" C-D, GROUP 2, EXP. 1 APA RATED 24/16
WHERE PERMITTED BY LOCAL AUTHORITY, INNER SEAL OSB SHEATHING CAN BE USED:
SHINGLE OR METAL ROOF:
7/16", 5/32", OR 1/2" APA RATED 24/16

- NOTES:**
- 1) PLYWOOD TO BE PERPENDICULAR TO FRAMING. END JOINTS SHALL BE STAGGERED.
 - 2) CONTRACTOR SHALL INSTALL PLYWOOD USING PLYWOOD CLIPS WITH BUILT-IN SPACERS.
 - 3) UNDERLAYMENT: REFERENCE TABLE R905.1.1 FOR UA=UNDERLAYMENT ATTACHMENT
- METAL ROOF**
- 4:12 AND GREATER
ASTM D 226 TYPE 11, UA2
ASTM D 4869 TYPE IV, UA2 ASTM D 6757, UA2
ASTM D 1970, UA3
 - 4) ALL MEMBRANE FLASHINGS INSTALLED PER MANUFACTURER'S SPECIFICATIONS

THE ABOVE BUILDING/STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH ASCE 7-16 FOR GRAVITY AND DESIGN PRESSURES GENERATED BY A ULTIMATE WIND SPEED OF 150 M.P.H @ 3 SECOND GUST & NOMINAL WIND SPEED OF 116 M.P.H., 3 SECOND GUST.



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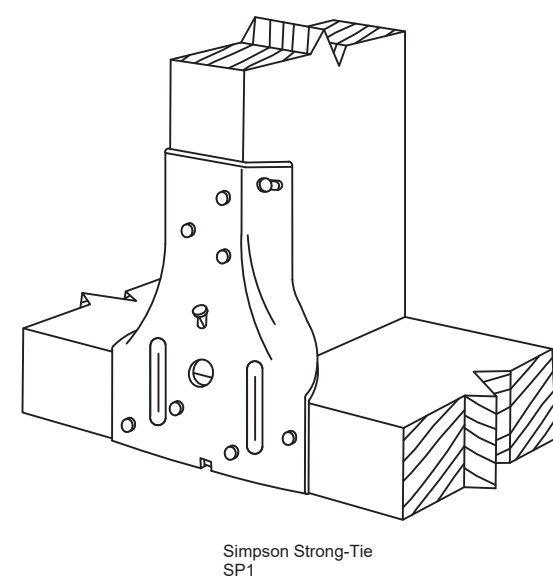
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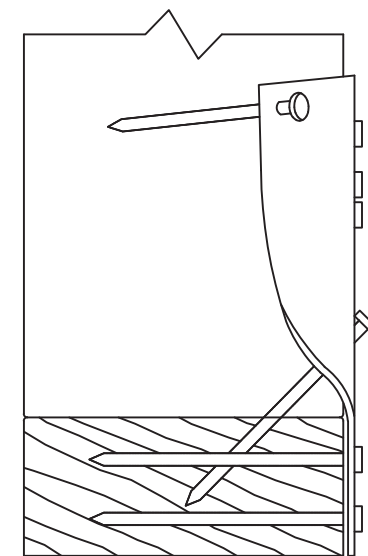
PROJECT No: **060225.003**
DATE: **June 02, 2025**

ROOF PLAN
ROOF FRAMING
...

SHEET NO:
S1



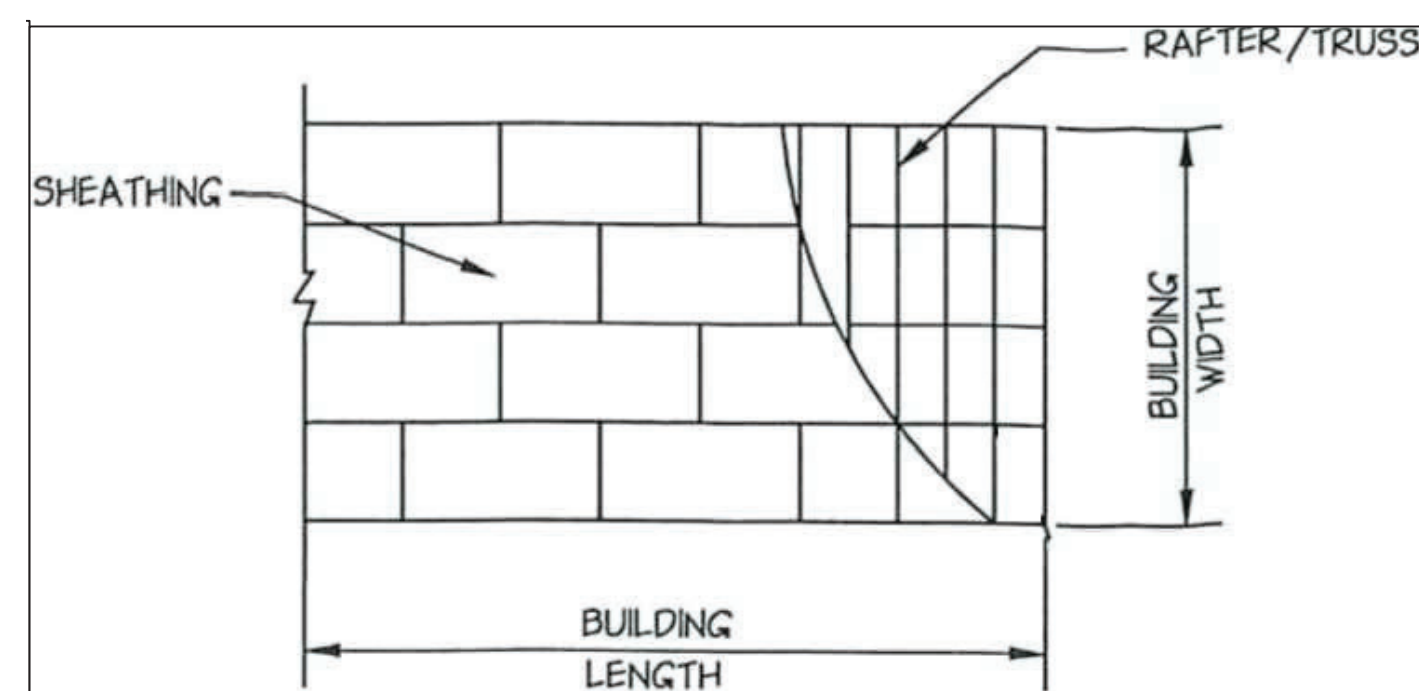
Simpson Strong-Tie
SP1



Simpson Strong-Tie
SP1

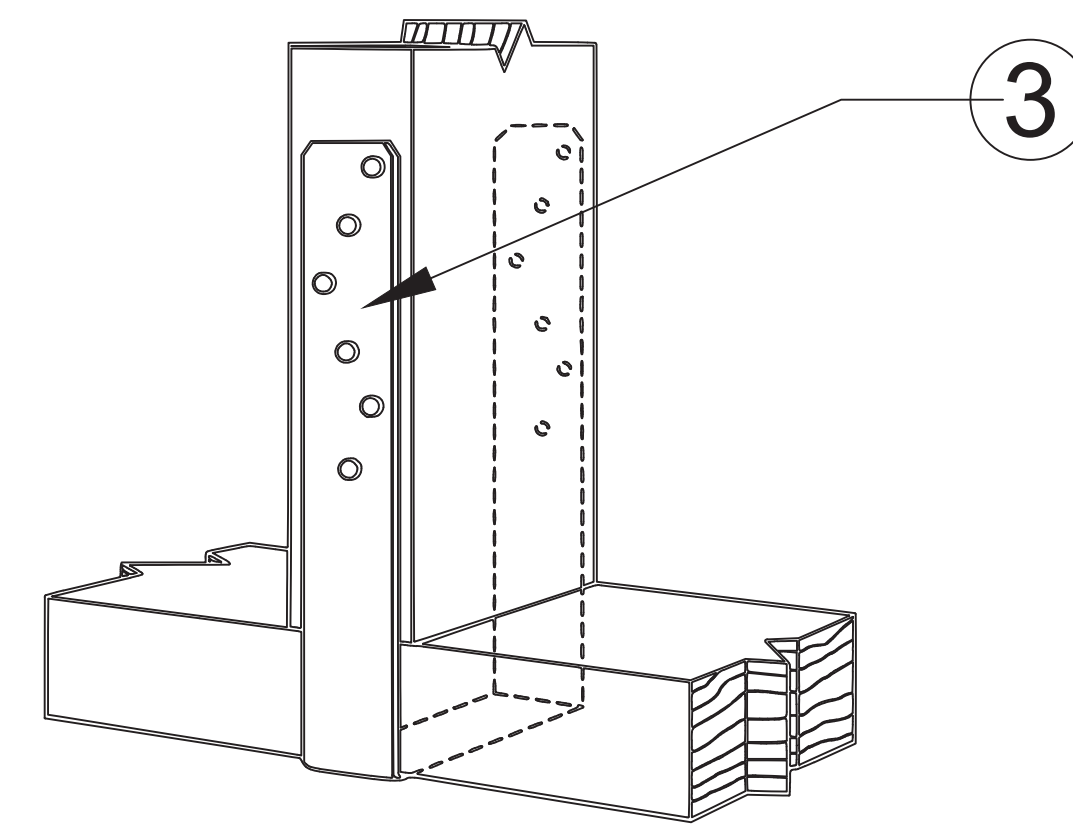
STUD-PLATE TIES 1

S2
NTS



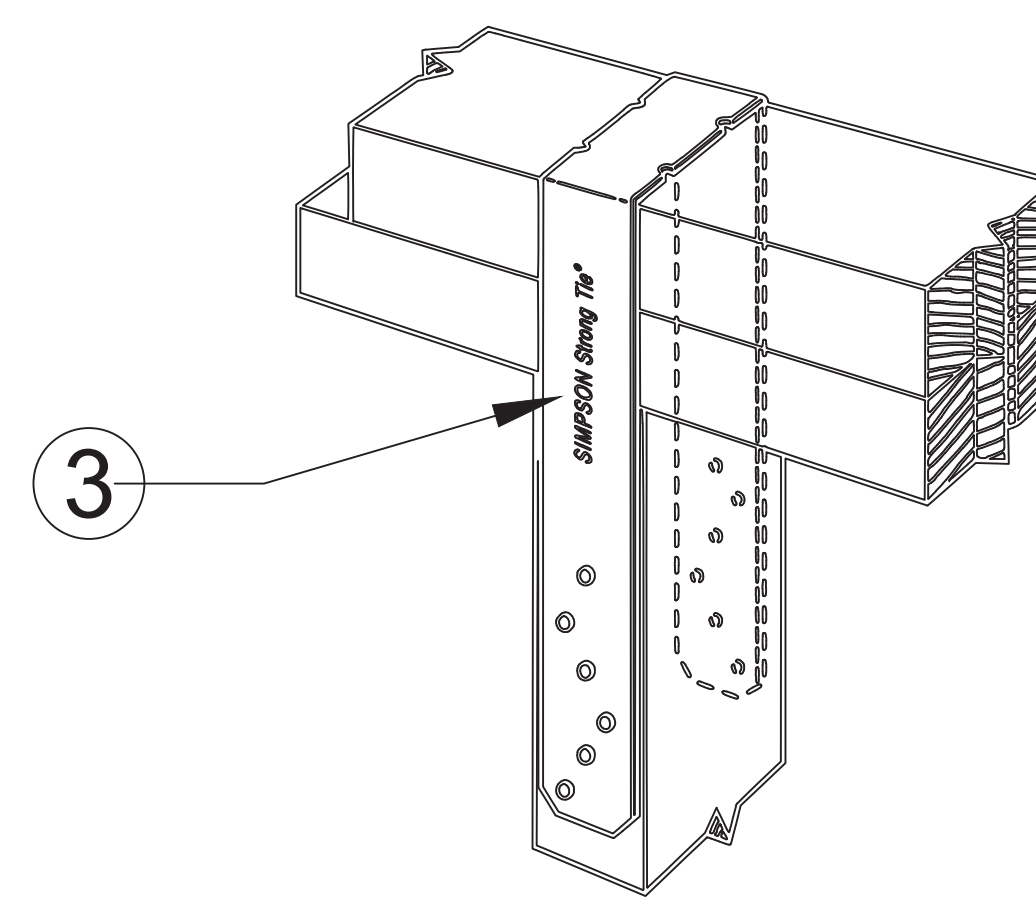
ROOF SHEATHING 2
FOR LEAN-TO METAL ROOF

S2
NTS



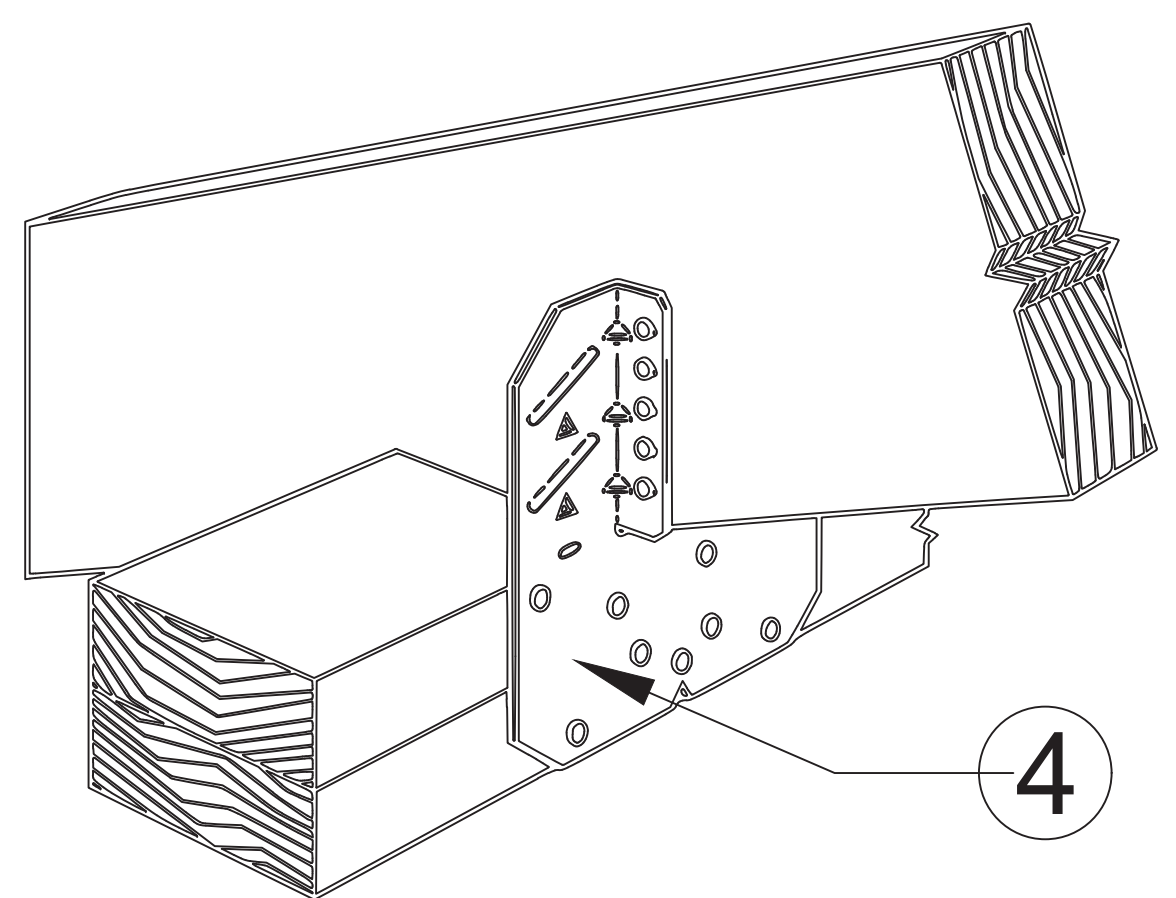
TOP PLATE ANCHORS 3
FOR USE AT BOTTOM PLATE

S2
NTS



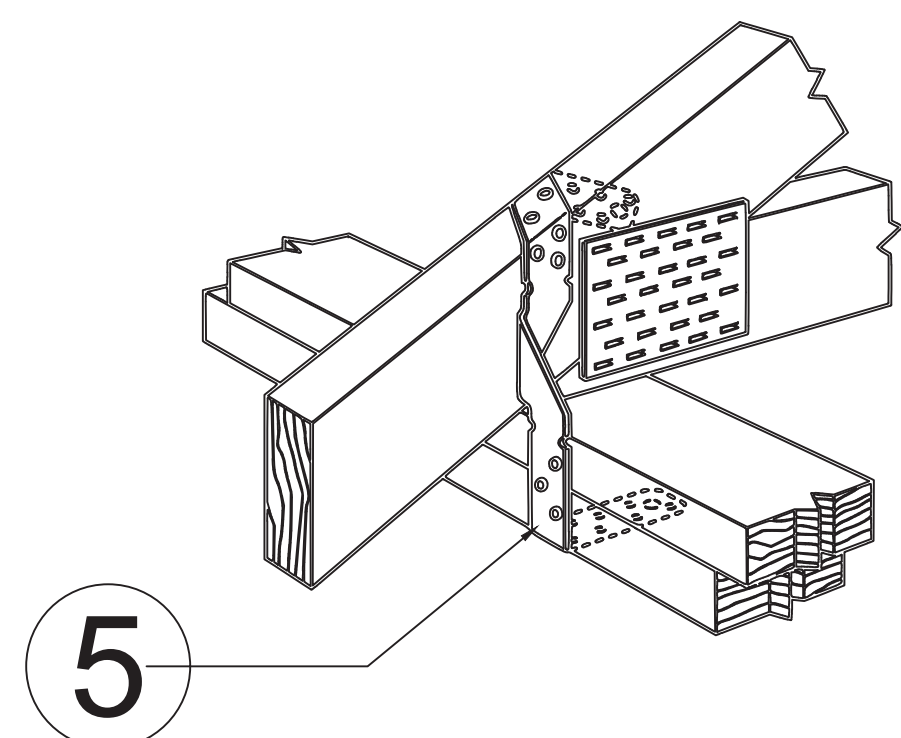
TOP PLATE ANCHOR 3

S2
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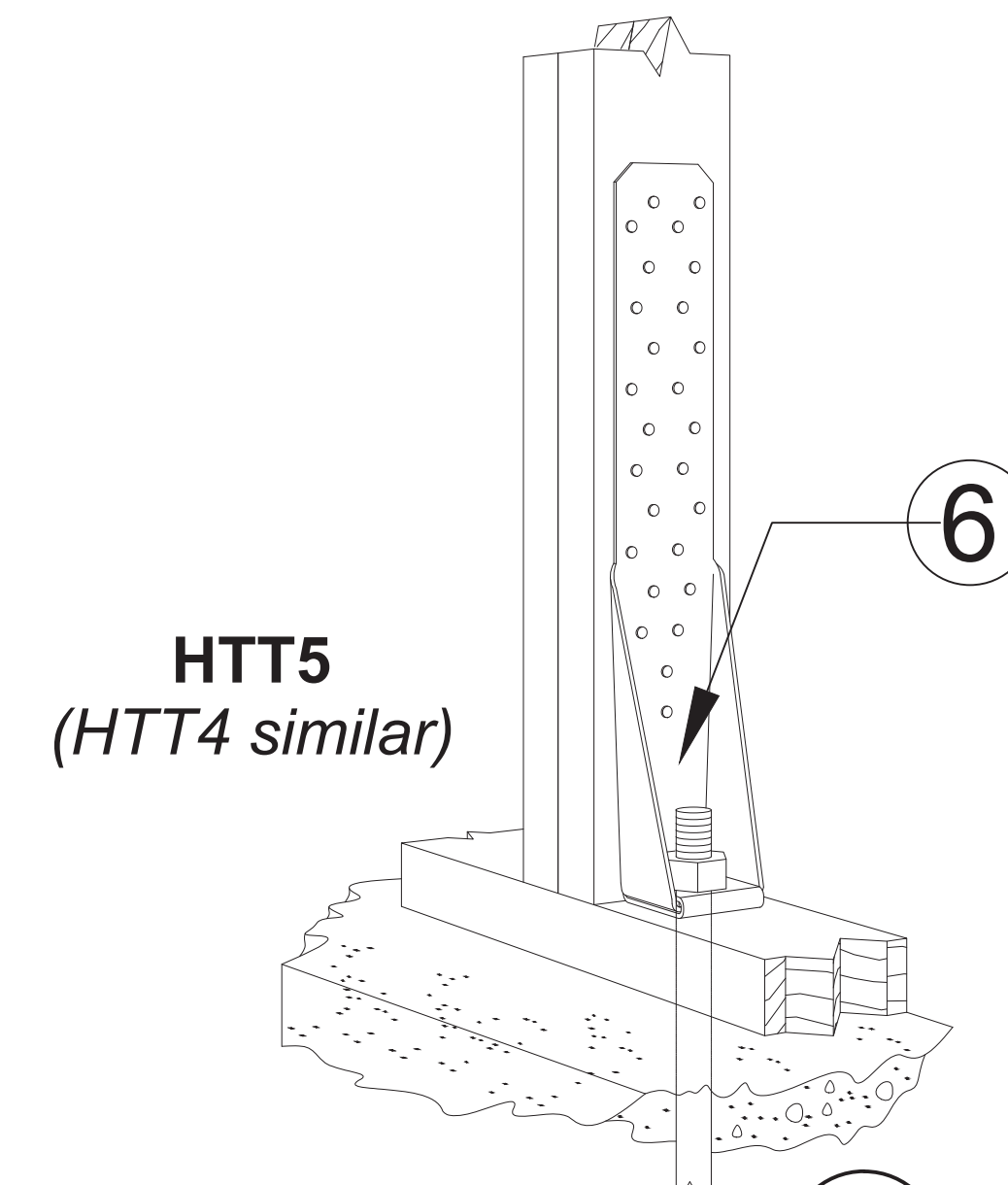
HURRICANE TIE (CLIP) 4
@ EXTERIOR WALL

S2
NTS



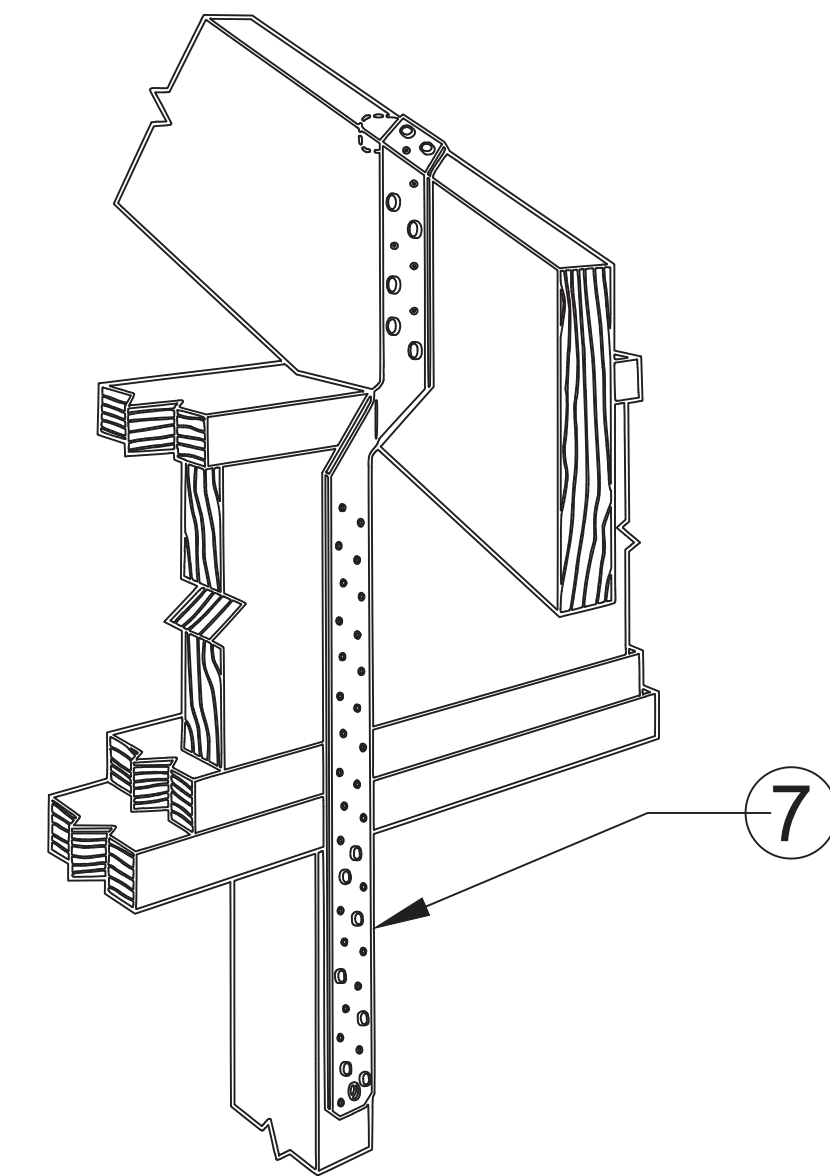
HEAVY TWIST STRAP 30" 5

S2
NTS



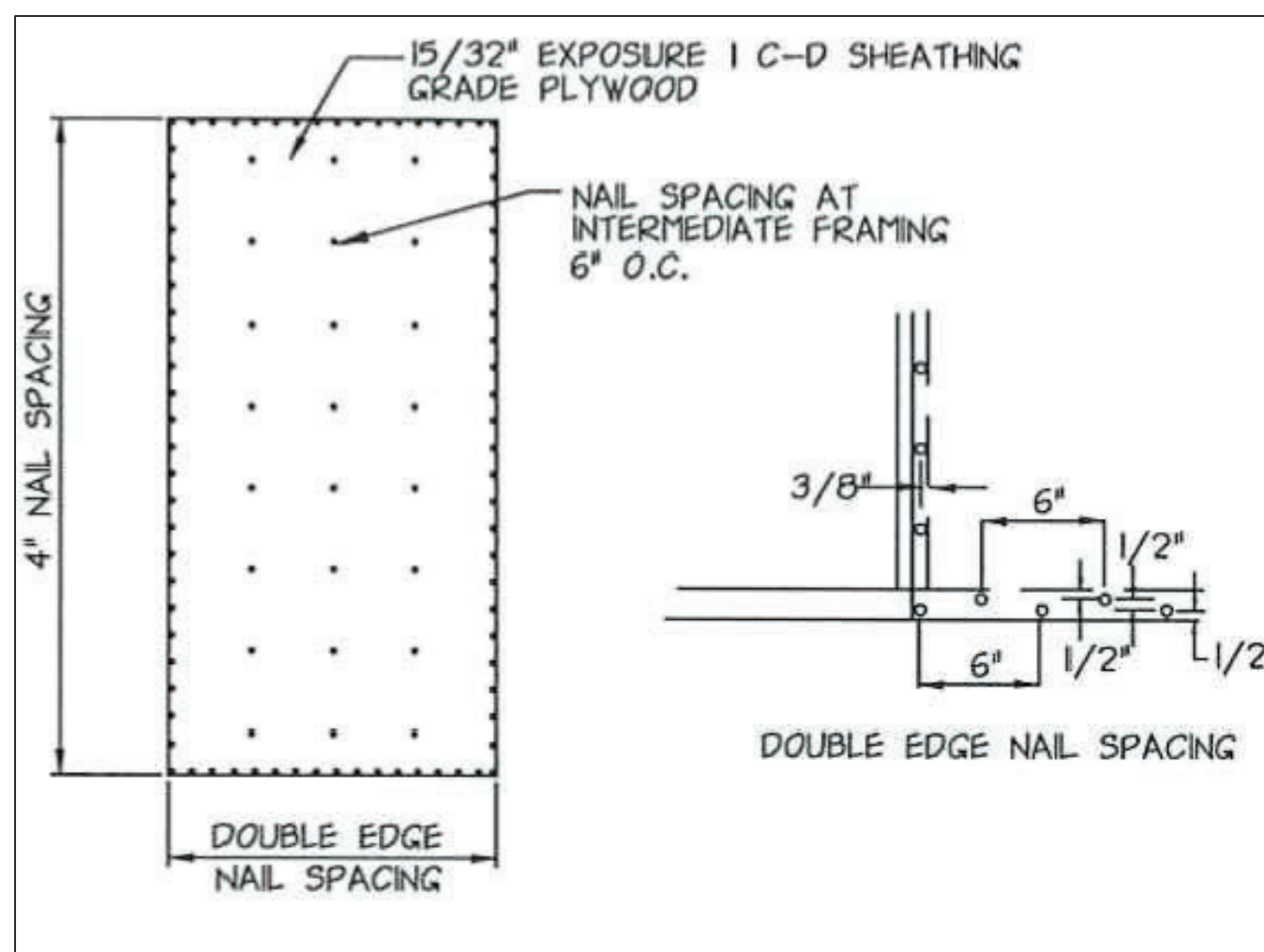
HTT5
(HTT4 similar)
SLAB ON GRADE FOOTING 6
F/ WOOD FRAMED EXT. WALLS

S2
NTS



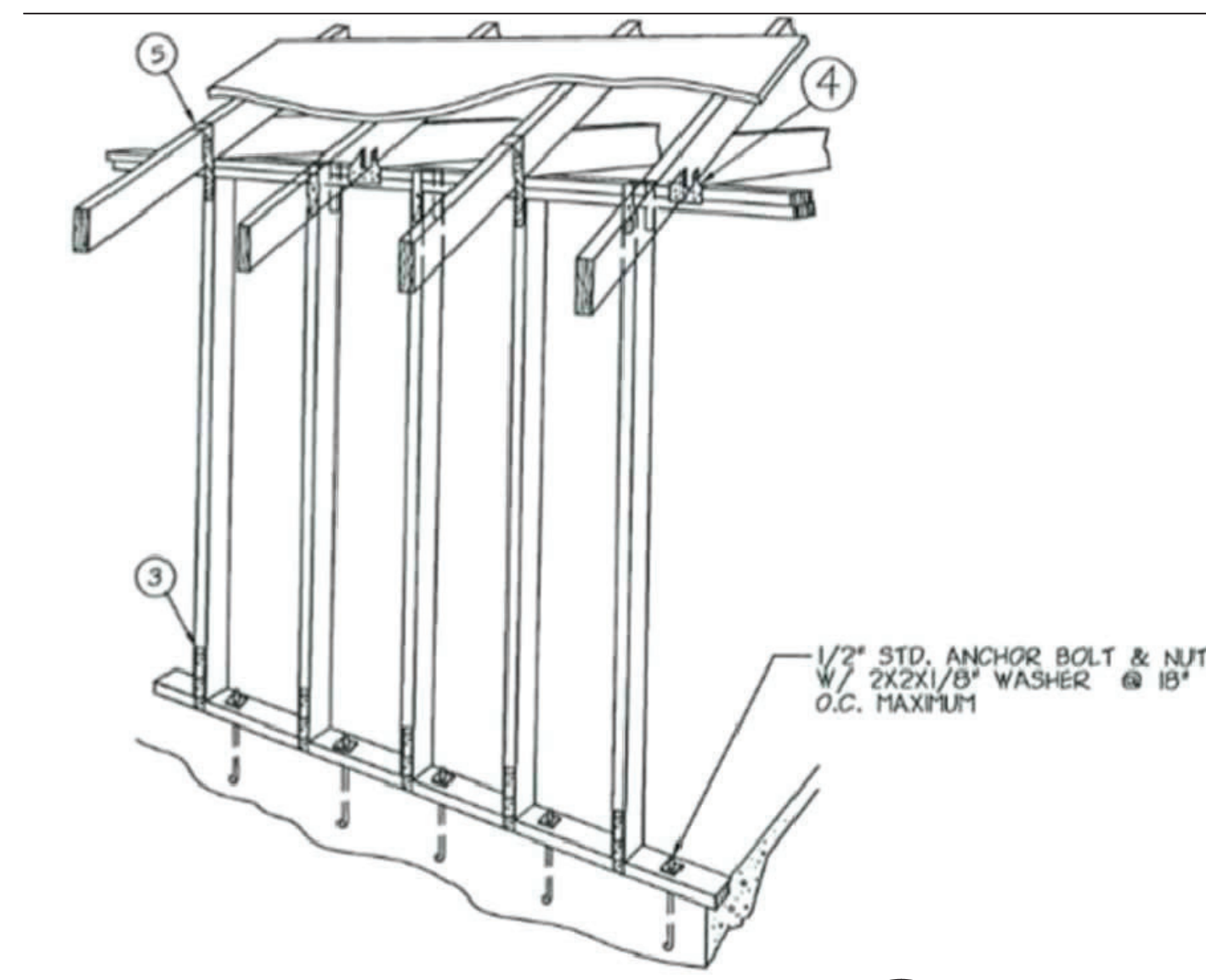
MEDIUM STRAP TIE 7

S2
NTS



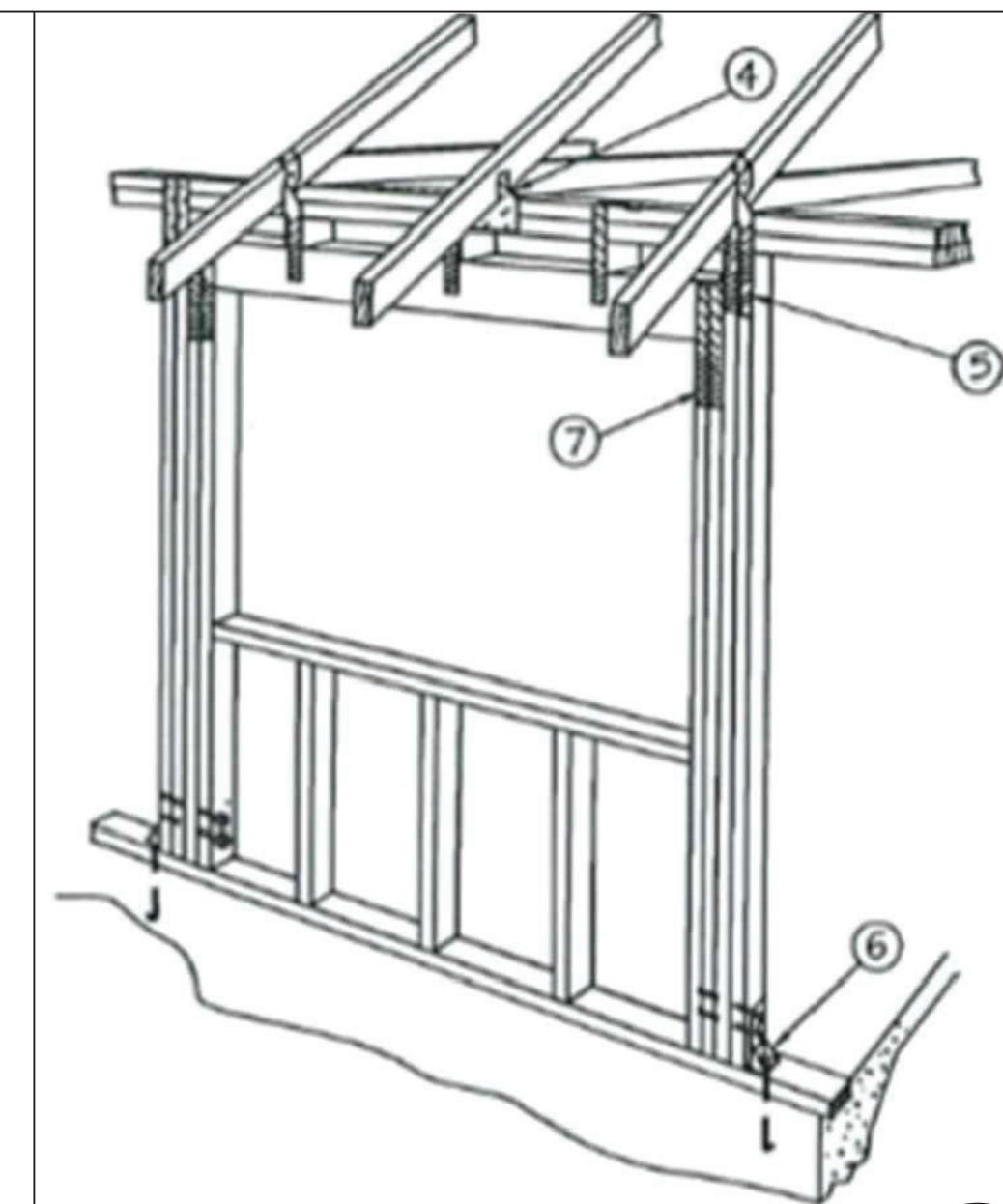
WOOD EXTERIOR WALL 8
PANEL ATTACHMENT

S2
NTS



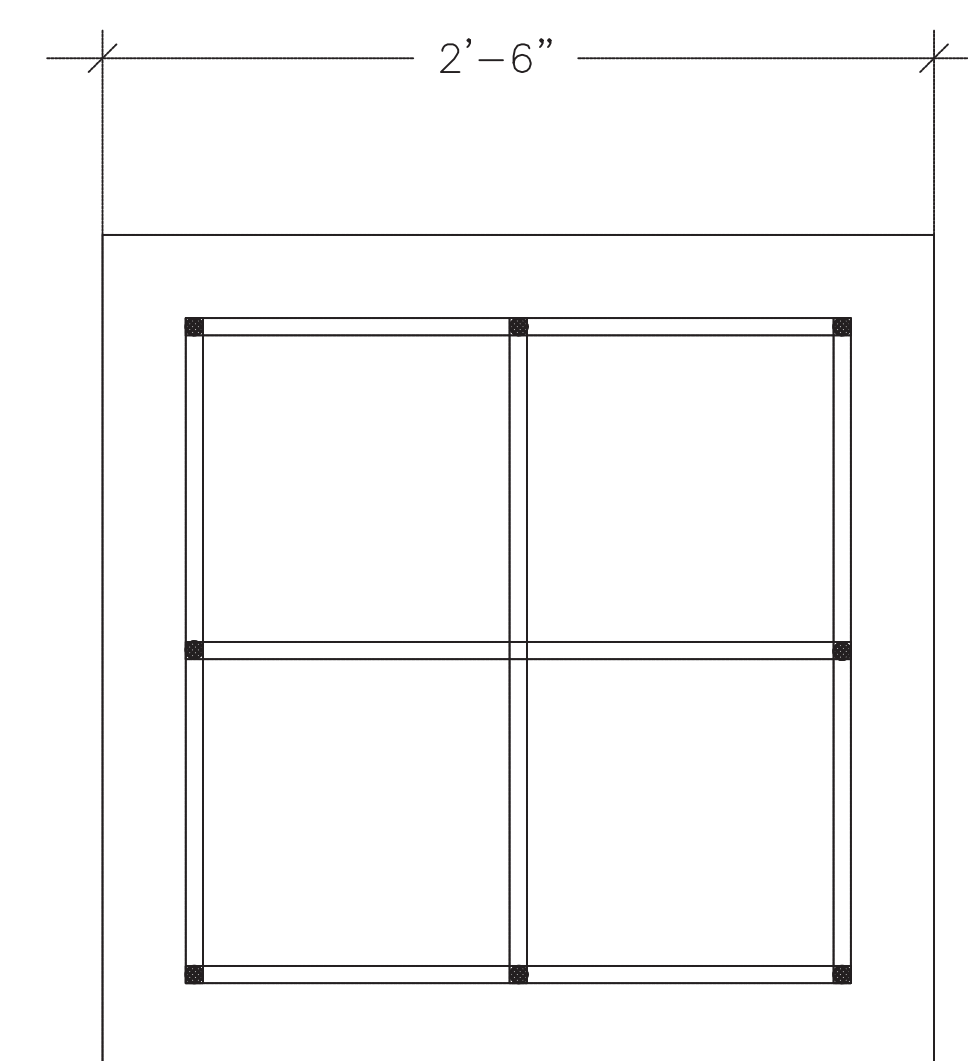
TYPICAL EXTERIOR WOOD FRAME 9
WALL CONNECTIONS & STRAPPING

S2
NTS



TYPICAL HEADER & CONNECTIONS 10
FOR OPENINGS AT EXTERIOR WALLS

S2
NTS



#5 REBAR @ EACH FOOTING
CORNER OVERLAPPED W/3"
CONCRETE COVER (TYP.)
FOOTING & FOUNDATION 11
CORNER DETAIL

S2
NTS



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NOTE:
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PROJECT No: 060225.003

DATE: June 02, 2025

DETAILS

SHEET NO:
S2

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