

Request for Bid Proposal



Marshall University
Office of Purchasing
One John Marshall Drive
Huntington, WV 25755-4100
Direct all inquiries regarding this order to: (304) 696 2727

Bid#
R2402441
Addendum No. 1

Vendor:

For information call:
Purchasing Contact:
Phone: (304) 696-2727
Email: michelle.wheeler@marshall.edu
Purchasing@marshall.edu

Sealed requests to bid for furnishing the supplies, equipment or services described below will be received by the Institution. TO RECEIVE CONSIDERATION FOR AWARD, UNLESS OTHERWISE NOTED, THE BID WILL BE SUBMITTED ON THIS FORM AND UPLOADED INTO THE MU BONFIRE PORTAL ON OR BEFORE THE DATE AND TIME SHOWN FOR THE BID OPENING. When applicable, prices will be based on units specified; and Bidders will enter the delivery date or time for items contained herein. The Institution reserves the right to accept or reject bids on each item separately or as a whole, to reject any or all bids, to waive informalities or irregularities and to contract as the best interests of the Institution may require. BIDS ARE SUBJECT TO THE GENERAL TERMS AND CONDITIONS AS SET FORTH HEREIN.

DATE 7/10/2024	Mandatory Pre-bid Meeting June 27, 2024 @ 10:00 AM Location: Marshall University Memorial Student Center 2W22 Mandatory Site Visit will follow immediately.	DEPARTMENT REQUISITION NO. R2402441	BIDS OPEN: 7/18/2024 at 3:00 p.m. EST. Broadcast via TEAMS link below: https://tinyurl.com/R2402441-Bid-Opening	BIDDER MUST ENTER DELIVERY DATE FOR EACH ITEM BID
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Item #	Quantity	Description	Unit Price	Extended Price
<p><u>ADDENDUM NO. 01</u></p> <p>Project Name: R2402441 Marshall University Old Main Structural Repairs</p> <p>Marshall University to establish a contract for the repairs and renovations of Old Main.</p>				

Total

To the Office of Purchasing,
In compliance with the above, the undersigned offers and agrees, if this offer is accepted within _____ calendar days (30 calendar days unless a different period is inserted by the purchaser) from the bid open date, specified above, to furnish any or all items upon which prices are offered, at the price set opposite each item, delivered at the designated point(s), within the time specified.

Bidder guarantees shipment from _____	Bidder's Name r _____
_____ within _____ days	Signed By _____
FOB _____ After receipt of order at address shown	Typed Name _____
Terms _____	Title _____
	Email _____
	Street Address _____
	City/State/Zip _____
	Date _____ Phone _____
	Fein _____

**ADDENDUM ACKNOWLEDGEMENT
FORM SOLICITATION NO.:**

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specifications, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any University personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Company

Authorized Signature

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

SOLICITATION NUMBER:

Addendum Number:

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

Description of Modification to Solicitation:

Addendum issued to publish and distribute the attached documentation to the vendor community.

NO OTHER CHANGES.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

	Name	Company	Phone	Email
1	Thomas Scangas	BCR	740 749 5741	tscangas@bcmco.com
2	Dru Wheeler	Landcore Builders LLC	(304) 390-4077	dwheeler@landcorebuilders.com
3	Tracey West	Neighborgall Const.	304 525-5181	Estimating@Neighborgall.com
4	Michelle Wheeler	Marshall	304-696-2777	Michelle.Wheeler@marshall.edu
5	Jeff Pratt	MU	304-942-8460	pratt65@marshall.edu
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MEMORANDUM

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To: Michelle Wheeler

Date: July 11, 2024

Cc: Becky Lusher, Cole Mertz

From: Matt Horne

Project Number: 2309.67

Subject: Marshall University – Old Main Structural Repairs

Summary

The following is a summary of revisions made to the structural drawings and specifications for Addendum 1.

Specification Revisions

011000 – SUMMARY

1. Revised section 1.6.B.1. to clarify that the relocation of mechanical, electrical, and plumbing items is not to be included in the scope of work.

Drawing Revisions

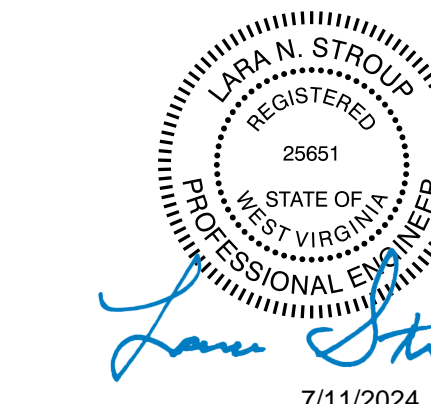
S103 – THIRD FLOOR PLAN

1. Revised note to clarify the existing landing beam should remain in place.
2. Revised note to specify new post supporting new landing beam is to be placed outside of the existing wall.
3. Added note at core indicating there is no topping slab (coordinate with garage drawings).

S302 – FRAMING SECTIONS

1. Revised detail 2 to clarify extent of new sistered rafters.
2. Added detail 6.
3. Added detail 7.

STAMP:



7/11/2024

STRUCTURAL NOTES

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GOVERNING CODE

2018 WEST VIRGINIA BUILDING CODE (REFERENCES IBC 2018 & ASCE-7 16)

DESIGN LOADS

1. GABLE WOOD FRAMED ROOF LOAD

A. MINIMUM COMBINATION OF WIND LOAD, LIVE LOAD, RAIN LOAD, OR SNOW LOAD (P ₁ OR P ₂)	20 PSF*
B. SLATE ROOFING	6 PSF
C. ROOF SHEATHING	6 PSF
D. TRUSS FRAMING LOAD	5 PSF
E. CEILING, INSULATION	3 PSF
F. SPRINKLERS	3 PSF
G. DUCTS, LIGHTS, MISC. MECHANICAL	2 PSF
TOTAL LOAD ON TRUSSES	45 PSF
MIN	

*FLAT ROOF SNOW LOAD, P_s = 18.5 PSF
GROUND SNOW, P_g = 20 PSF
SNOW LOAD IMPORTANCE FACTOR, I_s = 1.1
SNOW EXPOSURE FACTOR, C_e = 1.2
SNOW LOAD THERMAL FACTOR, C_t = 1.0
SNOW LOAD SLOPED ROOF FACTOR, C_d = 0.63
SLOPED ROOF SNOW LOAD, P_s = 11.6 PSF

2. WOOD JOIST FRAMED FLOOR LOAD

A. FLOOR FINISH ALLOWANCE	3 PSF
B. FLOOR SHEATHING	5 PSF
C. JOIST FRAMING	5 PSF
D. CEILING	5 PSF
E. SPRINKLERS	3 PSF
F. DUCTS, LIGHTS, MISC. MECHANICAL	3 PSF
TOTAL LOAD ON FLOOR FRAMING	24 PSF
G. TYPICAL FLOOR LIVE LOAD	80 PSF***
H. FIRST FLOOR CORRIDOR LIVE LOAD	100 PSF
I. STAIR LIVE LOAD	100 PSF

*** LIVE LOAD REDUCTIONS USED WHERE APPLICABLE

3. WIND LOAD (PER ASCE 7)

- A. BASIC DESIGN WIND SPEED, V = 115 MPH
- B. ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD} = 90 MPH
- C. RISK CATEGORY = III
- D. WIND EXPOSURE = B (ALL WIND DIRECTIONS)
- E. INTERNAL PRESSURE COEFFICIENT, GC_{pi} = +0.18, -0.18
- F. DESIGN PRESSURES FOR EXTERIOR COMPONENT AND CLADDING ITEMS NOT SPECIFICALLY DESIGNED BY THE ENGINEER OF RECORD. SPECIALTY ENGINEER SHALL DETERMINE WIND LOADS UNDER GOVERNING BUILDING CODE, AND BASED ON WIND LOAD PARAMETERS DEFINED ABOVE.

4. SEISMIC LOAD

- A. SEISMIC RISK CATEGORY AND IMPORTANCE FACTOR HAVE NOT CHANGED. SEISMIC STIFFNESS HAS NOT BEEN IMPACTED BY THE BUILDING MODIFICATIONS. A SEISMIC ANALYSIS IS NOT REQUIRED AND HAS NOT BEEN PERFORMED.

5. CONCENTRATED LOADS: 2000 POUNDS OVER 2.5 FEET SQUARE

6. SPECIAL LOADS:

- A. INTERIOR WALLS AND PARTITIONS THAT EXCEED 6 FEET IN HEIGHT: 5 PSF HORIZONTAL LIVE LOAD.
- B. HANDRAILS AND GUARDRAILS:
 - i. TOP RAIL: 200 POUND CONCENTRATED LOAD AT ANY POINT IN ANY DIRECTION OR 50 PLF UNIFORM LOAD APPLIED IN ANY DIRECTION.
 - ii. INTERMEDIATE RAILS, BALUSTERS, AND PANEL FILLERS: HORIZONTALLY APPLIED NORMAL LOAD OF 50 POUNDS ON AN AREA NOT TO EXCEED 1 SQUARE FT., INCLUDING OPENINGS AND SPACE BETWEEN RAILS.

CONSTRUCTION AND SAFETY

1. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
2. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS/HER OWN SAFETY, BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SHOULD ANY DISCREPANCY BE FOUND, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF THE CONDITION.
5. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED DURING DEMOLITION AND CONSTRUCTION TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.

STRUCTURAL STEEL

1. MATERIALS (UNLESS NOTED OTHERWISE):
 - A. L SHAPES: ASTM A572, GRADE 50, F_y = 50 KSI
 - B. PLATES AND BARS (THICKNESS ≤ 4 INCHES): ASTM A572, GRADE 50, F_y = 50 KSI
 - C. BOLTS: ASTM F3125, GRADE A325-N, 3/4" DIAMETER (UNLESS NOTED OTHERWISE)
 - D. THREADED RODS: ASTM A36
2. ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION
3. FABRICATOR QUALIFICATIONS: STRUCTURAL STEEL FABRICATOR SHALL PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM, AND SHALL BE DESIGNATED AS AN AISC-CERTIFIED PLANT, CATEGORY STD.
4. SUBMITTALS
 - A. STRUCTURAL STEEL SHOP DRAWINGS
5. CONNECTIONS:
 - A. BOLTED CONNECTIONS ARE TO BE INSTALLED SNUG TIGHT UNLESS OTHERWISE NOTED.
6. PAINT AND PROTECTION:
 - A. STRUCTURAL STEEL SURFACES UNLESS NOTED OTHERWISE: NO PAINT. PREPARE UNPAINTED STEEL SURFACES PER SSPC-SP2 "HAND TOOL CLEANING"

WOOD - ROUGH CARPENTRY

1. WOOD FRAMING MATERIALS:
 - A. DIMENSION LUMBER FRAMING - INTERIOR APPLICATIONS:
 - i. 2x4 AND 2x6 (TYPICAL): STUD GRADE OR BETTER SPRUCE PINE FIR KILN DRIED.
 - ii. 2x8 AND DEEPER (TYPICAL): NO. 1 GRADE OR BETTER SOUTHERN PINE KILN DRIED.
 - iii. 4x4: NO. 1 GRADE OR BETTER SOUTHERN PINE.
 - iv. 6x6: NO. 2 GRADE OR BETTER SOUTHERN PINE.

- B. LVL (LAMINATED VENEER LUMBER): WEYERHAUSER "MICROLLAM". SUBSTITUTES MEETING THE FOLLOWING MINIMUM PROPERTIES MAY BE CONSIDERED:
 - i. BEAMS:
 - F_b = 2800 PSI BENDING
 - F_v = 285 PSI HORIZONTAL SHEAR
 - F_c = 2500 PSI COMPRESSION PARALLEL TO GRAIN
 - F_{c⊥} = 750 PSI COMPRESSION PERPENDICULAR TO GRAIN
 - E = 2,000,000 PSI MODULUS OF ELASTICITY
 - E_{min} = 1,0156,535 PSI
- 2. ANCHORS AND FASTENERS:
 - A. ANCHOR RODS: ASTM F1554, GRADE 36 ANCHOR RODS WITH NUTS AND WASHERS, HOT DIP GALVANIZED PER ASTM F2329 OR ASTM A153 (TYPICAL). STAINLESS STEEL OR HOT DIP GALVANIZED ANCHORS ARE NOT REQUIRED FOR INTERIOR APPLICATIONS USING BORATE PRESERVATIVE TREATMENT ONLY.
 - B. BOLTS: ASTM A307, GRADE A (TYPICAL), FOR EXTERIOR APPLICATIONS, PRESERVATIVE TREATED OR FIRE RETARDANT TREATED MATERIALS, HOT DIP GALVANIZE PER ASTM F2329 OR ASTM A 153
 - i. PROVIDE STANDARD CUT WASHER BETWEEN BOTH HEAD AND NUT TO WOOD CONNECTION.
 - C. NAILS: ASTM F1667, FOR EXTERIOR APPLICATIONS, PRESERVATIVE TREATED OR FIRE RETARDANT TREATED MATERIALS, HOT DIP GALVANIZE PER ASTM F2329 OR ASTM A 153. WHERE PENNYWEIGHTS ARE INDICATED, CONTRACTOR SHALL CONFIRM NAIL SIZES INDICATED ON DRAWINGS AND NOTES MEET THE FOLLOWING DIAMETER AND LENGTH REQUIREMENTS. PNEUMATIC GUN NAILS SHALL MEET THESE DIAMETER AND LENGTH REGARDLESS OF THE NAIL SIZE INDICATED BY THE MANUFACTURER:
 - i. 8d = 0.131" DIA, 2 1/2" LG.
 - ii. 10d = 0.148" DIA, 3" LG.
 - iii. 16d = 0.162" DIA, 3 1/2" LG.
 - D. WOOD SCREWS:
 - i. #8 = 0.164" DIA.
 - ii. #10 = 0.19" DIA.
 - iii. #12 = 0.216" DIA.
 - E. LAG SCREWS:
 - i. PROVIDE STANDARD WASHER BETWEEN HEAD TO WOOD CONNECTION.
 - ii. PREBORE HOLES PRIOR TO INSTALLATION.

- 3. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE MADE PER TABLE 2304.10.1 "FASTENING SCHEDULE", IN REFERENCED BUILDING CODE.
- 4. ALL CONNECTION HARDWARE SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY. SHALL BE FASTENED AS SPECIFIED IN THE SIMPSON PRODUCT AND INSTRUCTION MANUAL, AND ARE BASED ON THEIR CATALOG PUBLISHED CAPACITIES. ALL CONNECTORS SHALL BE INSTALLED USING THE MAXIMUM NAILING SPECIFIED AND PROPER NAIL SIZE UNLESS NOTED OTHERWISE.
- A. INTERIOR DRY APPLICATIONS WITH BORATE PRESERVATIVE TREATED MATERIALS: G90 COATED MINIMUM.
- 5. ALL BEARING POINTS FROM CONCENTRATED LOADS SHALL BE CONTINUOUSLY BLOCKED THRU FLOOR FRAMING DOWN TO SOLID BEARING ON FOUNDATION WALL SILL PLATE OR INTERIOR STEEL BEAM.
- 6. ALL MULTIPLE HEADERS AND BEAMS WITH DEPTH LESS THAN 14 INCHES SHALL BE FASTENED TOGETHER WITH MINIMUM (3) ROWS OF 0.148" Ø x3" LONG NAILS AT 12" O.C., STAGGERED ON OPPOSITE SIDES. FOR DEPTHS EQUAL TO OR GREATER THAN 14 INCHES, FASTEN TOGETHER WITH (4) ROWS OF 0.148" Ø x3" LONG NAILS AT 12" O.C. FOR FOUR OR MORE PLY BEAMS. THRU-BOLT WITH 1/2" DIAMETER BOLTS AT 12" O.C. STAGGERED TOP AND BOTTOM. ALL SIDE LOADED BEAMS SHALL BE THRU-BOLTS.

POST INSTALLED ANCHORS

1. INSTALLATION: INSTALL ANCHORS PER EVALUATION REPORT AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI).
2. CONNECTIONS TO EXISTING REINFORCED CONCRETE OR MASONRY: PRIOR TO DRILLING, VERIFY LOCATIONS OF EXISTING REINFORCING BARS USING A REBAR DETECTOR. NOTIFY ENGINEER PRIOR TO INSTALLATION IF ANCHOR LOCATIONS CONFLICT WITH EXISTING REINFORCING BARS. DO NOT DRILL THROUGH REINFORCING BARS.
3. TESTING AND INSPECTION: REFER TO EVALUATION REPORTS FOR ADDITIONAL TESTING AND INSPECTION REQUIREMENTS.
4. SUBSTITUTIONS: SUBSTITUTIONS COMPLYING WITH SPECIFIED ACCEPTANCE CRITERIA MAY BE CONSIDERED. SUBMIT EVALUATION REPORT DEMONSTRATING COMPLIANCE WITH GOVERNING CODE AND SPECIFIED ACCEPTANCE CRITERIA PRIOR TO INSTALLATION.
5. ADHESIVE ANCHORS:
 - A. ANCHOR RODS: HILTI "HAS-V-36" ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE. SIZE AND EMBEDMENT AS INDICATED ON DRAWINGS.
 - B. ADHESIVE IN CONCRETE: HILTI "HIT-RE 500 V3" EPOXY (EVALUATION REPORT: ICC-ES ESR-3814). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC308 AND ACI 308.4 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.
 - C. ADHESIVE IN UNREINFORCED MASONRY (MULTI-WYTHE SOLID BRICK WALLS): HILTI "HIT-HY 270" ADHESIVE ANCHOR SYSTEM (EVALUATION REPORT: ICC-ES ESR-3814). INSTALL WITH SCREEN TUBE(S) AS REQUIRED IN EVALUATION REPORT. SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC60 FOR USE IN UNREINFORCED MASONRY ELEMENTS MAY BE CONSIDERED.
 - D. VERIFY THAT THE SHELF LIFE OF THE ADHESIVE HAS NOT BEEN EXCEEDED ON THE DATE OF INSTALLATION.

SPECIAL INSPECTIONS

1. IT IS ASSUMED THAT SPECIAL INSPECTIONS ARE NOT REQUIRED, AND THAT THIS PROJECT MEETS THE EXCEPTIONS OF 1704.2 OF THE REFERENCED BUILDING CODE.

ABBREVIATIONS

NAME	DESCRIPTION
AFF =	ABOVE FINISHED FLOOR ELEVATION
ARCH =	ARCHITECT
B =	BOTTOM OF
BLDG =	BUILDING
BOT =	BOTTOM
BRG =	BEARING
CFS =	COLD-FORMED STEEL
CJ =	CONTRACTOR JOINT
CJP =	COMPLETE JOINT PENETRATION
CL =	CENTER LINE
CLR =	CLEAR
CLSM =	CONTROLLED LOW STRENGTH MATERIAL
CMU =	CONCRETE MASONRY UNIT
COL =	COLUMN
CONC =	CONCRETE
CONT =	CONTINUOUS
DEG ° =	DEGREE
DIA Ø =	DIAMETER
EA =	EACH
EF =	EACH FACE
EL =	ELEVATION
EMB =	EMBEDMENT
EDG =	EDGE OF DECK
EOS =	EDGE OF SLAB
EQ =	EQUAL
EXIST =	EXISTING
EXP =	EXPANSION
FND =	FOUNDATION
FS =	FAR SIDE
FTG =	FOOTING
GA =	GAGE
GALV =	GALVANIZED
GT =	GRIDDED TRUSS
HORIZ =	HORIZONTAL
JST BRG =	JOIST BEARING
Ld =	TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
Ld-CMU =	TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN GROUTED CMU
Ldc =	COMPRESSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
Ldh =	LONG DIMENSION HORIZONTAL
Ldn =	HOOKED BAR TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
Ldv =	LONG DIMENSION VERTICAL
LLH =	LONG LEG HORIZONTAL
LLV =	LONG LEG VERTICAL
Ls =	LAP SPICE LENGTH OF REINFORCING BAR IN CONCRETE
Ls-CMU =	LAP SPICE LENGTH OF REINFORCING BAR IN GROUTED CMU
Lsc =	COMPRESSION LAP SPICE LENGTH OF REINFORCING BAR IN CONCRETE
LSL =	LAMINATED STRAND LUMBER
LVL =	LAMINATED VENEER LUMBER
MCI =	MASONRY CONTROL JOINT
MFR =	MANUFACTURER
NS =	NEAR SIDE
OC =	ON CENTER
OPNG =	OPENING
OPP =	OPPOSITE
PIT =	POST-TENSION
PAF =	POWER-ACTUATED FASTENER
PE =	PRE-ENGINEERED
PEMB =	PRE-ENGINEERED METAL BUILDING
PJP =	PARTIAL JOINT PENETRATION
PL =	PLATE
PSL =	PARALLEL STRAND LUMBER
PT =	PRESSURE TREATED
RD =	ROOF DRAIN
REINF =	REINFORCING
RTU =	ROOF TOP UNIT
SDS =	SELF-DRILLING SCREWS
SM =	SIMILAR
SL =	STEP LEDGE
SOMD =	SLAB ON METAL DECK
SPA =	SPACE OF SPACES
SRD =	SECONDARY ROOF DRAIN
STEF =	STIFFENER
STL =	STEEL
STW =	STEP TOP OF WALL
TI =	TOP OF
UND =	UNLESS NOTED OTHERWISE
VERT =	VERTICAL BRACING
VIF =	VERIFY IN FIELD
wf =	WITH
WP =	WORK POINT

**MARSHALL U OLD
MAIN - PHASE 1
RENO**

FOR

DESIGNED BY: CMM
DRAWN BY: TMW
CHECKED BY: DRS

ISSUE/REVISION/SUBMISSION
NO DATE DESCRIPTION
05/03/2024 100% CD

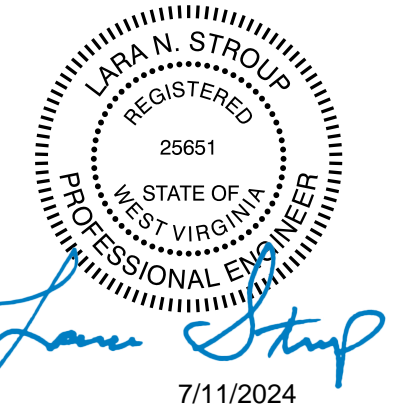
PROJECT NUMBER:
23-0967

SHEET NAME:
GENERAL NOTES

DATE:
05/03/2024

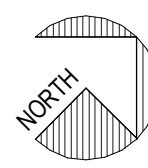
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SEE "TYPICAL ROTTED JOIST END REINFORCING DETAIL" AND "TYPICAL NOTCHED JOIST REINFORCING DETAIL" ON S301 FOR REPAIRS OF NOTCHED AND DETERIORATING JOISTS IN THE SHADED REGION

FIRST FLOOR PLAN
3/32" = 1'-0"



**MARSHALL U OLD
MAIN - PHASE 1
RENO**

FOR

DESIGNED BY: CMM
DRAWN BY: TMW
CHECKED BY: DRS

ISSUE/REVISION/SUBMISSION

NO	DATE	DESCRIPTION
	05/03/2024	100% CD

PROJECT NUMBER:
23-0967

SHEET NAME:
**FIRST FLOOR
PLAN**

DATE:
05/03/2024

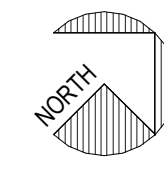
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PROVIDE TIES FROM STAIR LANDING TO EXISTING MASONRY WALL PER TYPICAL TIE OF EXISTING MASONRY WALL TO EXISTING FLOOR JOIST DETAILS ON S301

SECOND FLOOR PLAN
3/32" = 1'-0"



**MARSHALL U OLD
MAIN - PHASE 1
RENO**

FOR

DESIGNED BY: CMM
DRAWN BY: TMW
CHECKED BY: DRS

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION
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23-0967

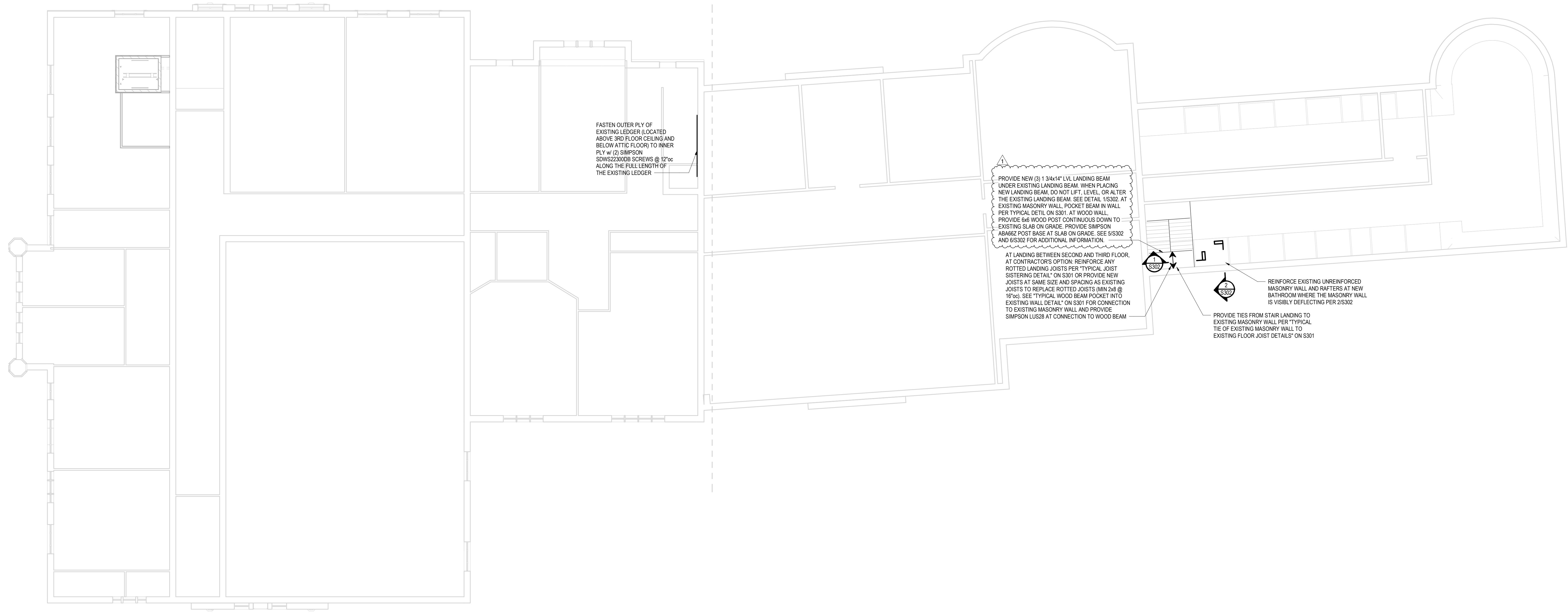
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**SECOND FLOOR
PLAN**

DATE:
05/03/2024

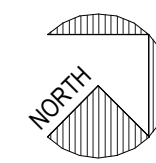
SHEET:
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STAMP:



THIRD FLOOR PLAN
3/32" = 1'-0"



**MARSHALL U OLD
MAIN - PHASE 1
RENO**

FOR

DESIGNED BY: CMM
DRAWN BY: TMW
CHECKED BY: DRS

ISSUE/REVISION/SUBMISSION

NO	DATE	DESCRIPTION
1	05/03/2024	100% CD
	07/11/2024	ADDENDUM 1

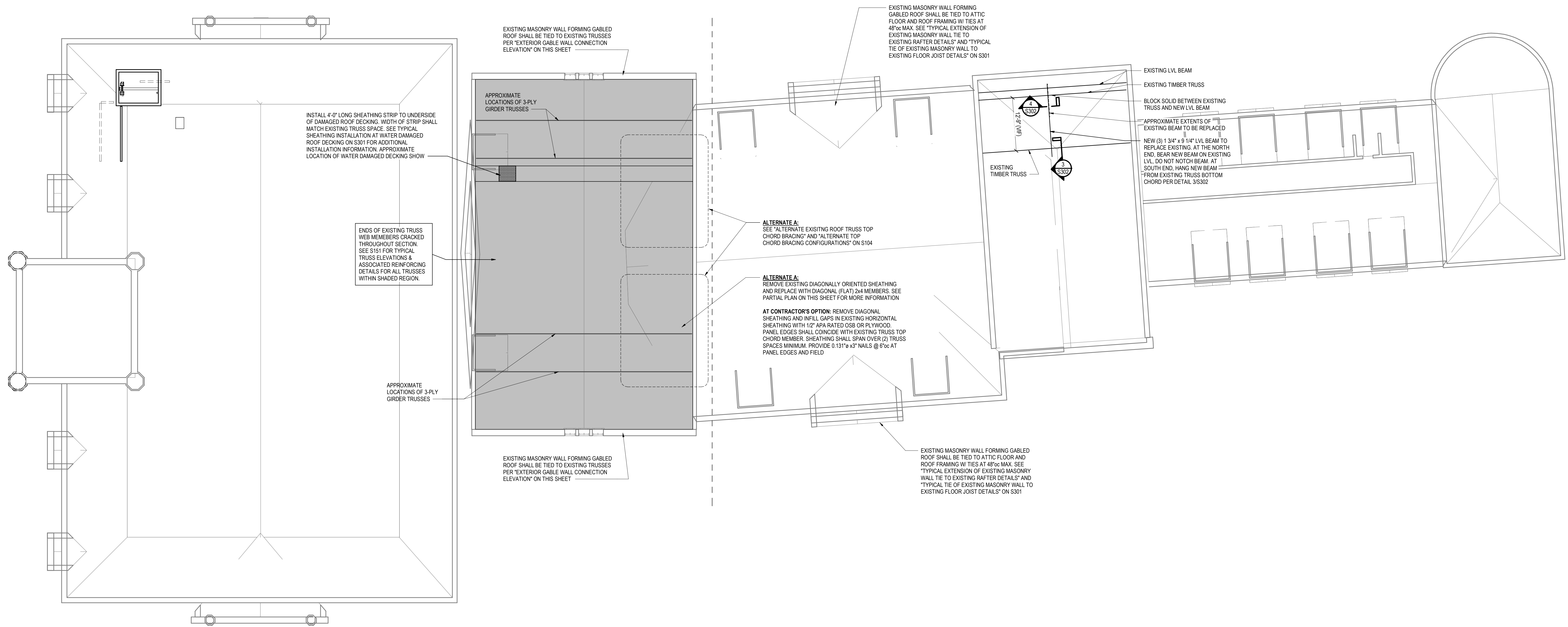
PROJECT NUMBER:
23-0967

SHEET NAME:
**THIRD FLOOR
PLAN**

DATE:
05/03/2024

SHEET:
S103

STAMP:



ROOF PLAN
3/32" = 1'-0"

MARSHALL U OLD MAIN - PHASE 1 RENO

FOR

DESIGNED BY: CMM
DRAWN BY: TMW
CHECKED BY: DRS

ISSUE/REVISION/SUBMISSION

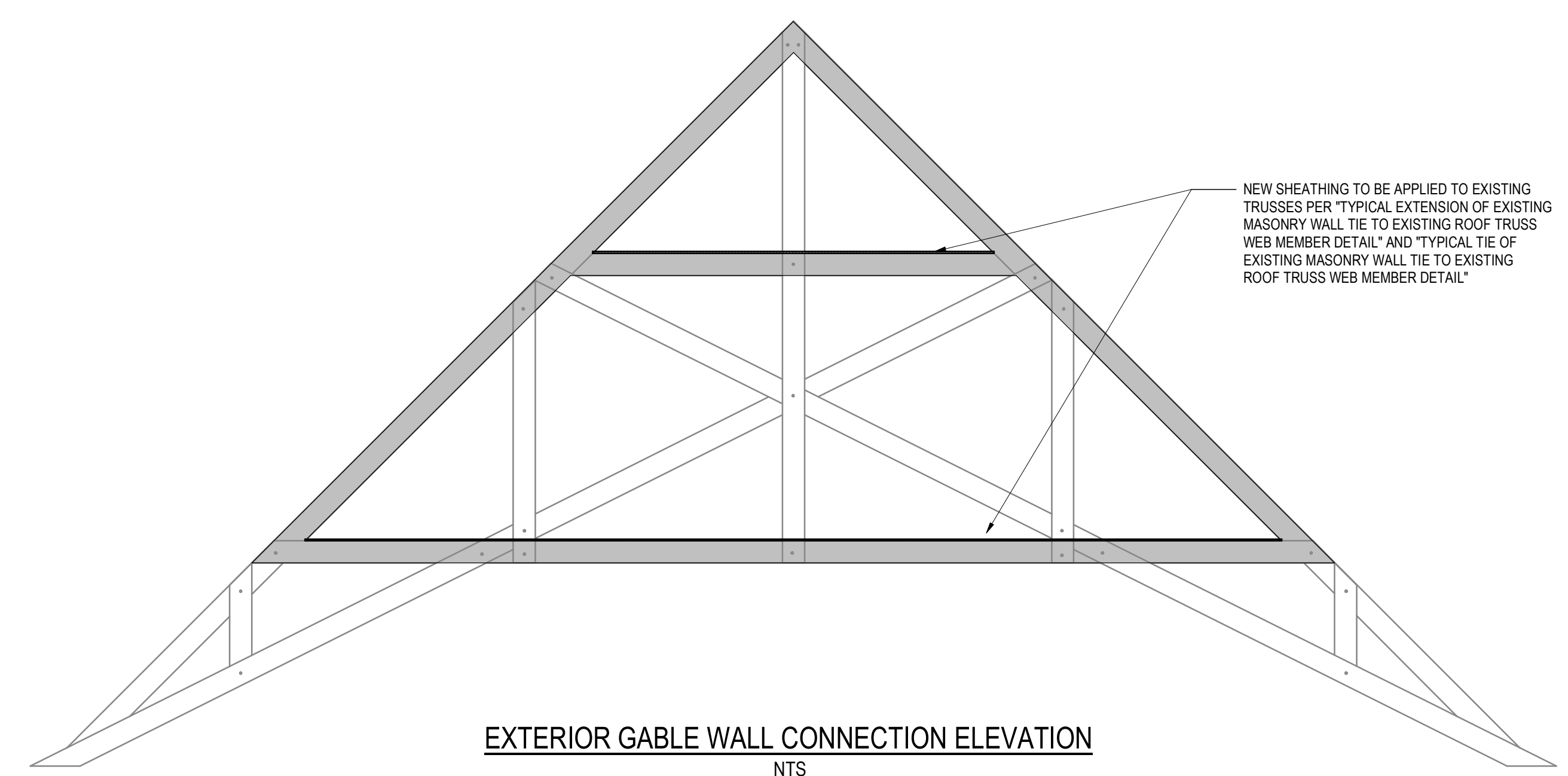
NO	DATE	DESCRIPTION
05/03/2024	100% CD	

PROJECT NUMBER:
23-0967

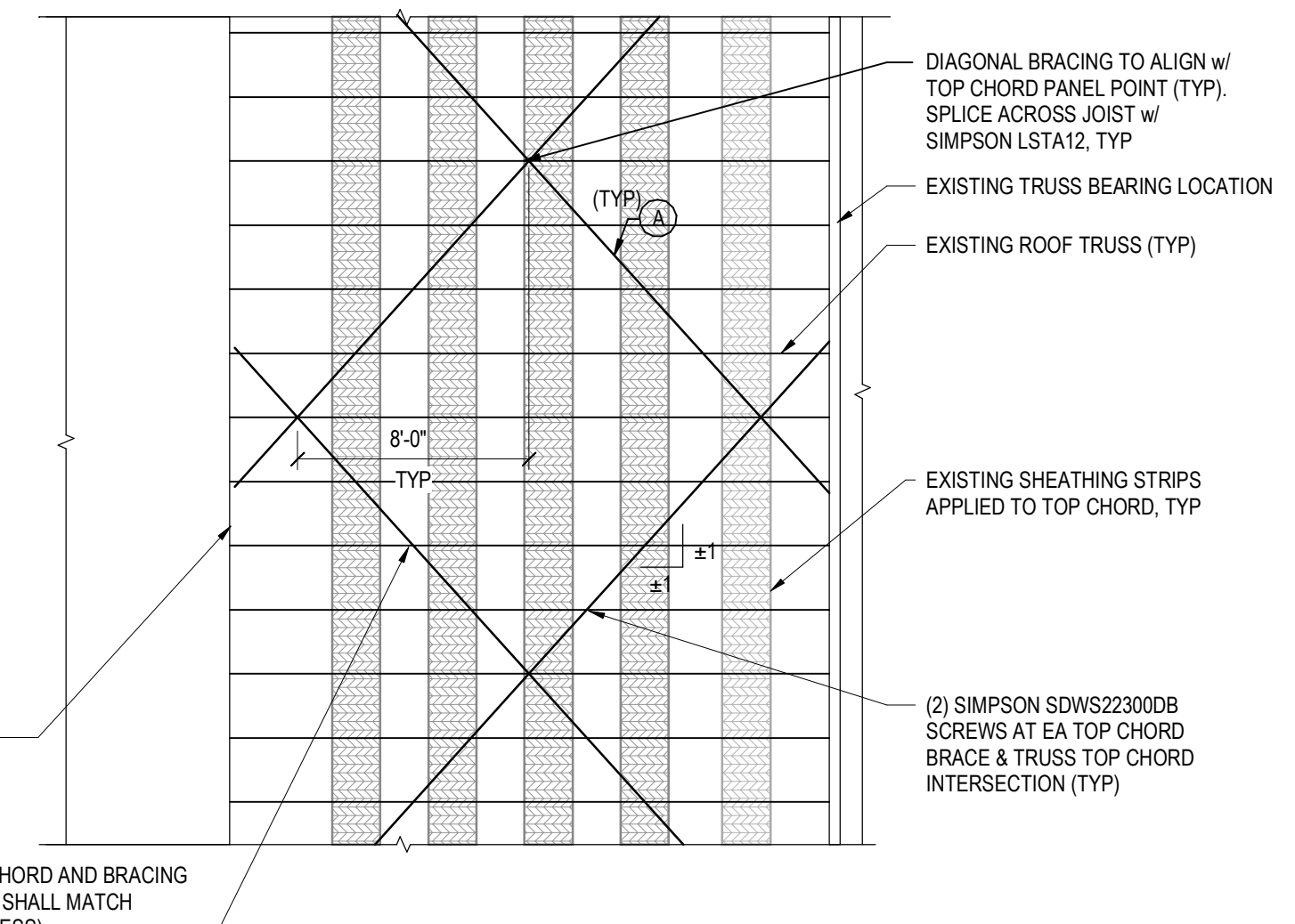
SHEET NAME:
ROOF FRAMING PLAN

DATE:
05/03/2024

SHEET:
S104



AT SHADED MEMBERS, TIES ARE REQUIRED FROM THE EXISTING MASONRY WALL TO THE EXISTING TRUSS ELEMENTS AT 48"oc MAX. PROVIDE NEW TIES IN ADDITION TO EXISTING TIES AS REQUIRED TO MEET MAX SPACING REQUIREMENT. SEE "TYPICAL EXTENSION OF EXISTING MASONRY WALL TIE TO EXISTING ROOF TRUSS WEB MEMBER DETAIL" AND "TYPICAL TIE OF EXISTING MASONRY WALL TIE TO EXISTING ROOF TRUSS WEB MEMBER DETAIL" FOR ADDITIONAL INFORMATION



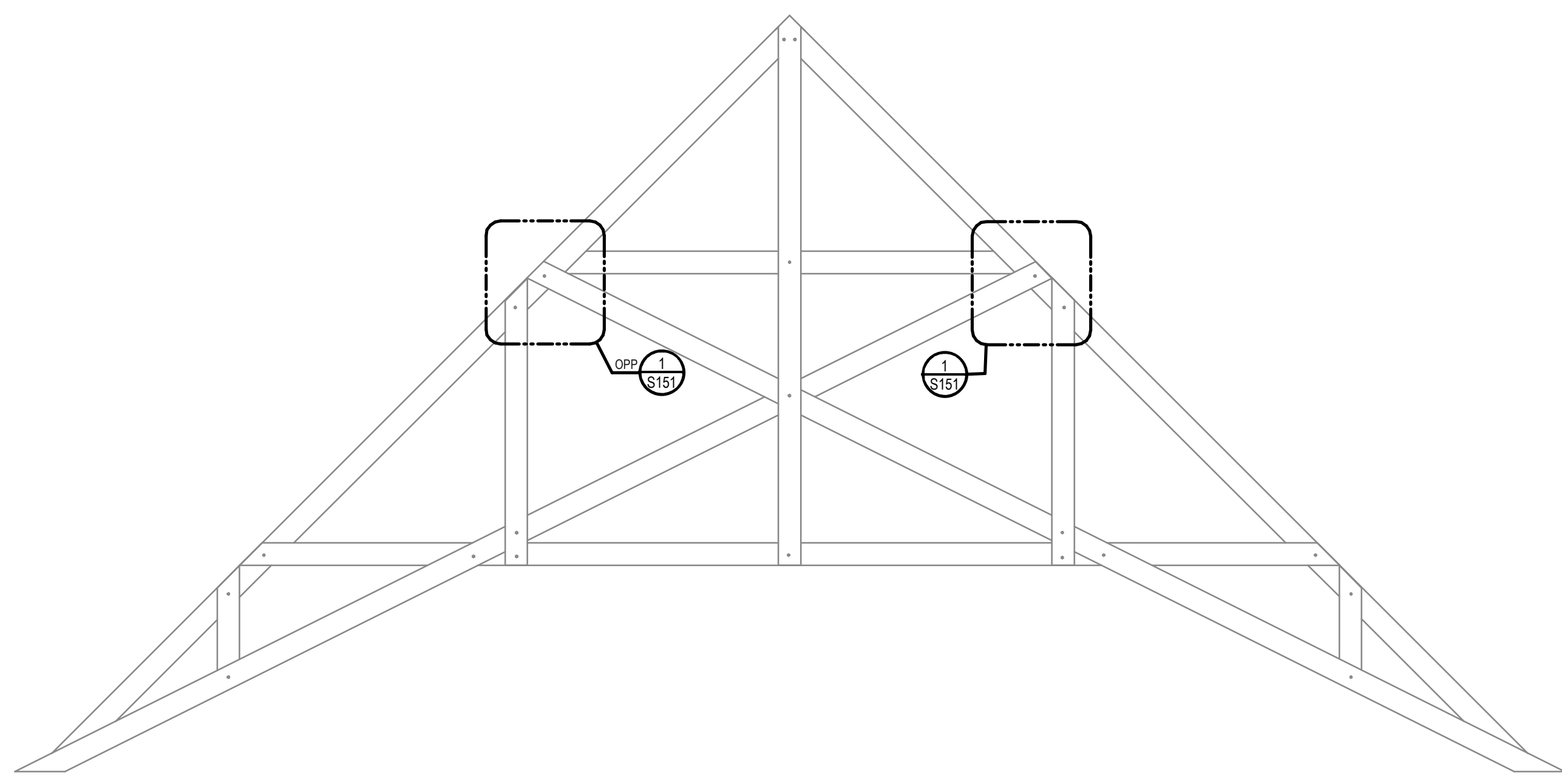
TYPICAL ROOF TRUSS PERMANENT BRACING NOTES

1. (A) 2x4 ON TOP OF TOP CHORD w/ (2) SIMPSON SDWS22300DB SCREWS AT EA TRUSS. WHERE TRUSS SPACING EXCEEDS 52", REFER TO "ALTERNATE TOP CHORD BRACING CONFIGURATIONS" THIS SHEET FOR APPROPRIATE BRACING SECTIONS

ALTERNATE A
ALTERNATE EXISTING ROOF TRUSS TOP CHORD BRACING
NTS

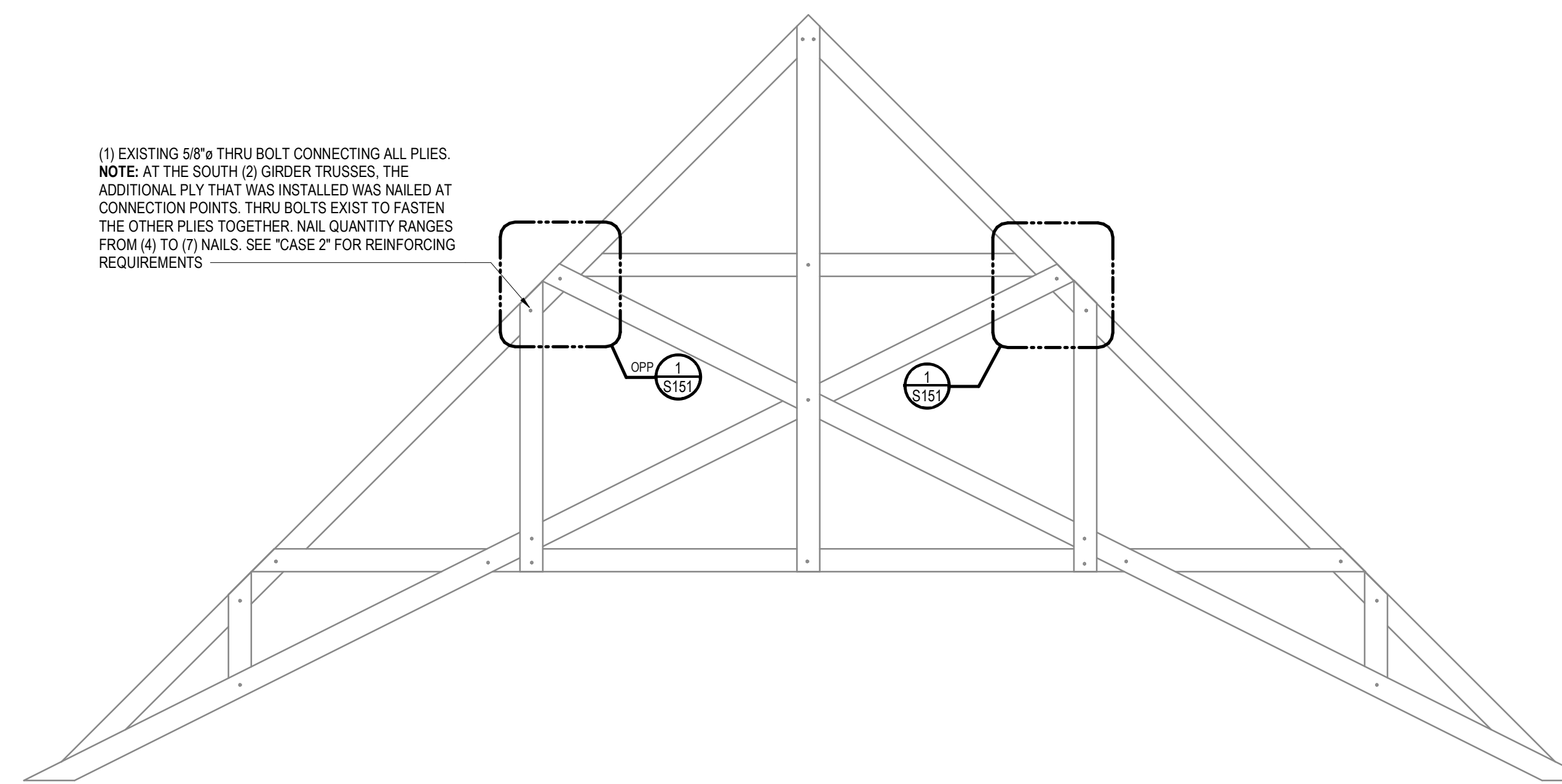
ALTERNATE A
ALTERNATE TOP CHORD BRACING CONFIGURATIONS
NTS

STAMP:



TYPICAL TRUSS ELEVATION

1/4" = 1'-0"



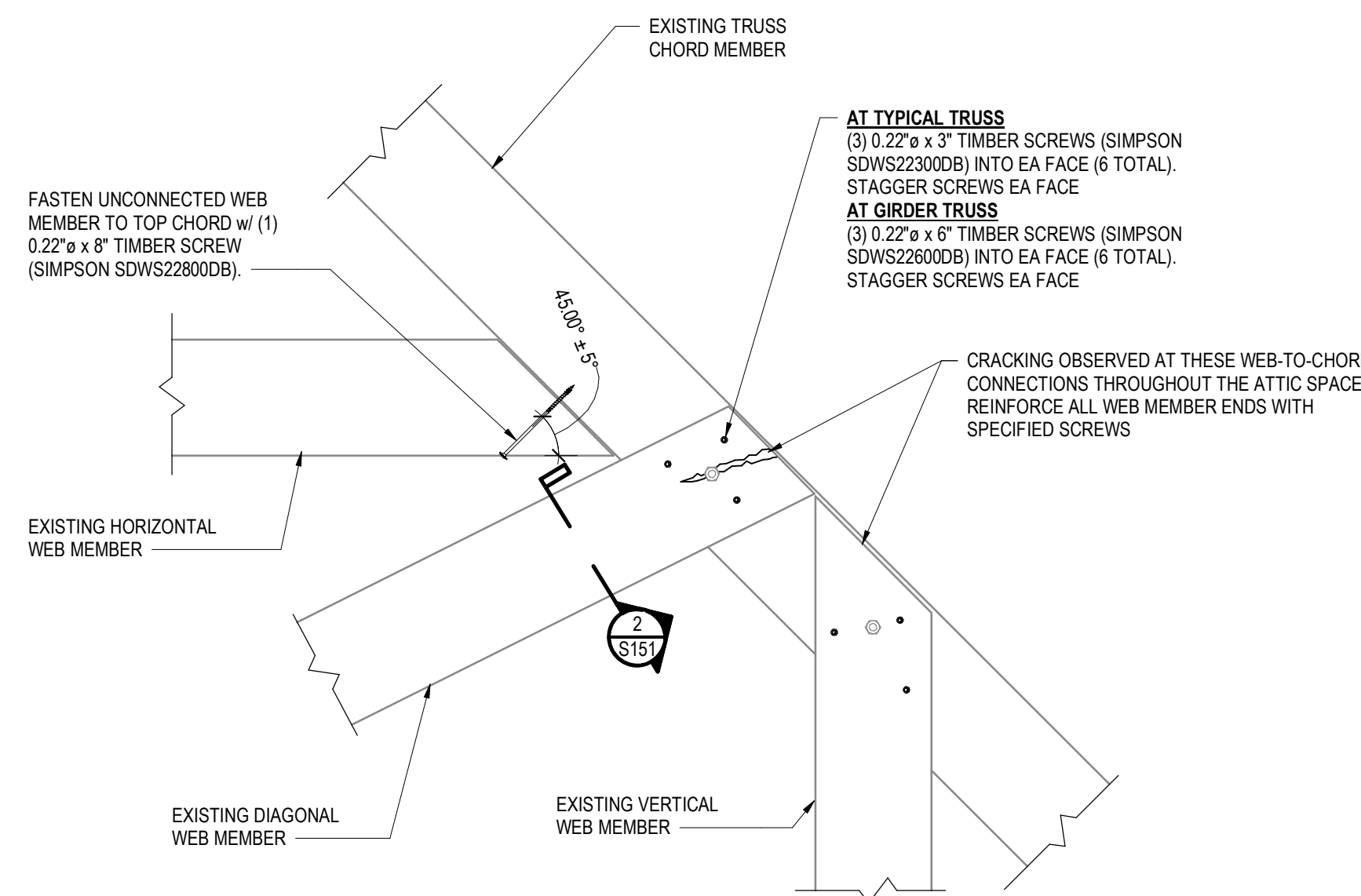
TYPICAL GIRDER TRUSS ELEVATION

1/4" = 1'-0"

(1) EXISTING 5/8" THRU BOLT CONNECTING ALL PLYES.
NOTE: AT THE SOUTH (2) GIRDER TRUSSES, THE ADDITIONAL PLY THAT WAS INSTALLED WAS NAILED AT CONNECTION POINTS. THRU BOLTS EXIST TO FASTEN THE OTHER PLYES TOGETHER. NAIL QUANTITY RANGES FROM (4) TO (7) NAILS. SEE "CASE 2" FOR REINFORCING REQUIREMENTS

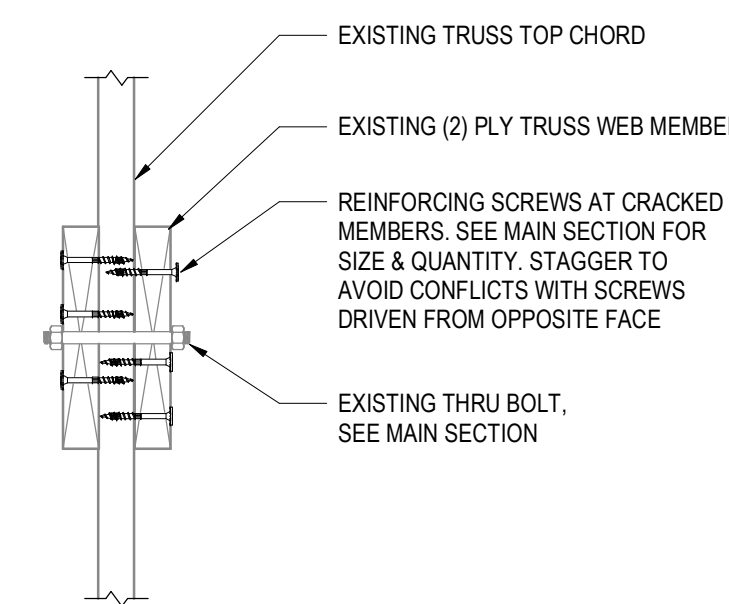
TRUSS ELEVATION NOTES:

1. EACH WOOD MEMBER IS CONTINUOUS (NO SPLICES ALONG THE LENGTH OF THE MEMBER)
2. TRUSS HORIZONTAL AND DIAGONAL BRACING NOT SHOWN. LOCATIONS VARY.

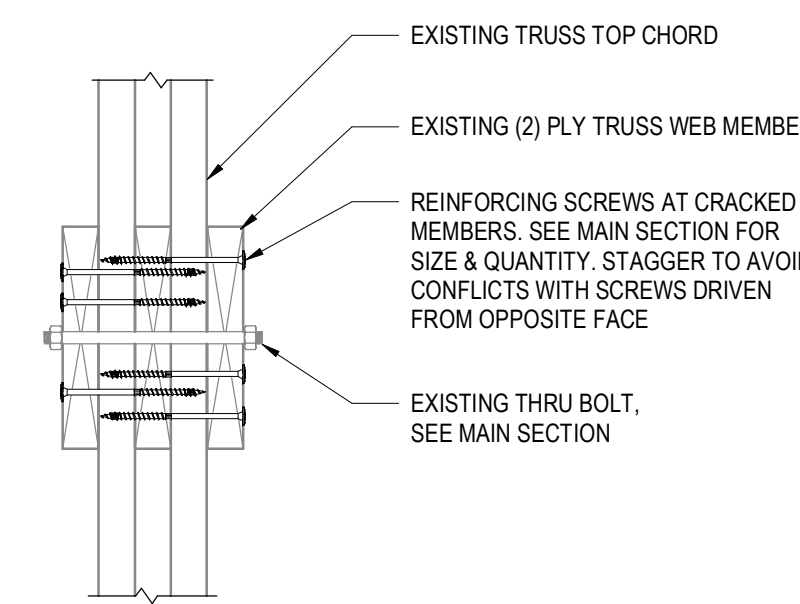


DETAIL 1
1" = 1'-0" S151

AT TYPICAL TRUSS
(3) 0.22" x 3" TIMBER SCREWS (SIMPSON SDWS22000B) INTO EA FACE (6 TOTAL), STAGGER SCREWS EA FACE
AT GIRDER TRUSS
(3) 0.22" x 3" TIMBER SCREWS (SIMPSON SDWS22000B) INTO EA FACE (6 TOTAL), STAGGER SCREWS EA FACE



CASE 1: TYPICAL TRUSS



CASE 2: GIRDER TRUSS

SECTION 2
1 1/2" = 1'-0" S151

MARSHALL U OLD MAIN - PHASE 1 RENO

FOR

DESIGNED BY: CMM
DRAWN BY: TMW
CHECKED BY: DRS

ISSUE/REVISION/SUBMISSION
NO DATE DESCRIPTION
05/03/2024 100% CD

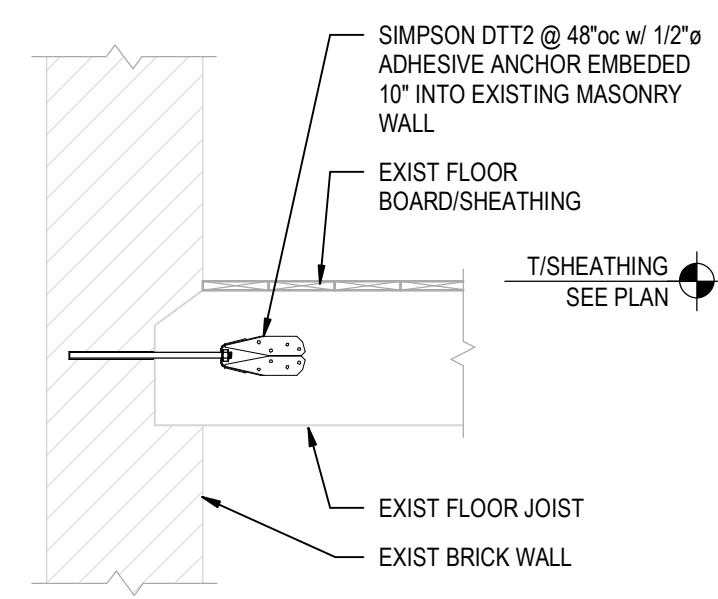
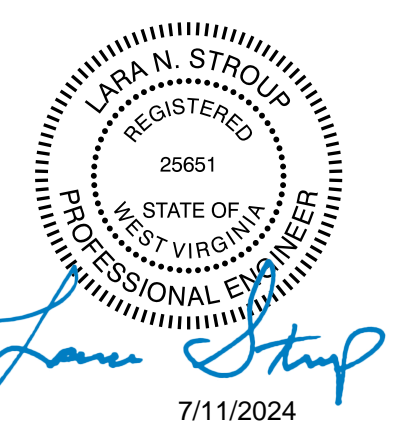
PROJECT NUMBER:
23-0967

SHEET NAME:
TRUSS ELEVATIONS & REINFORCING DETAILS

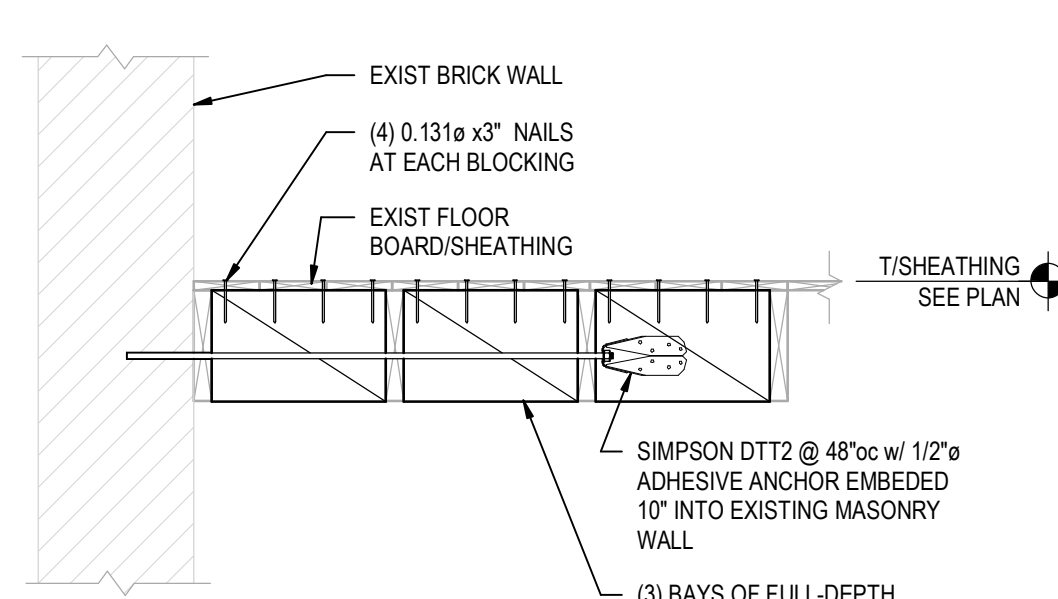
DATE:
05/03/2024

SHEET:
S151

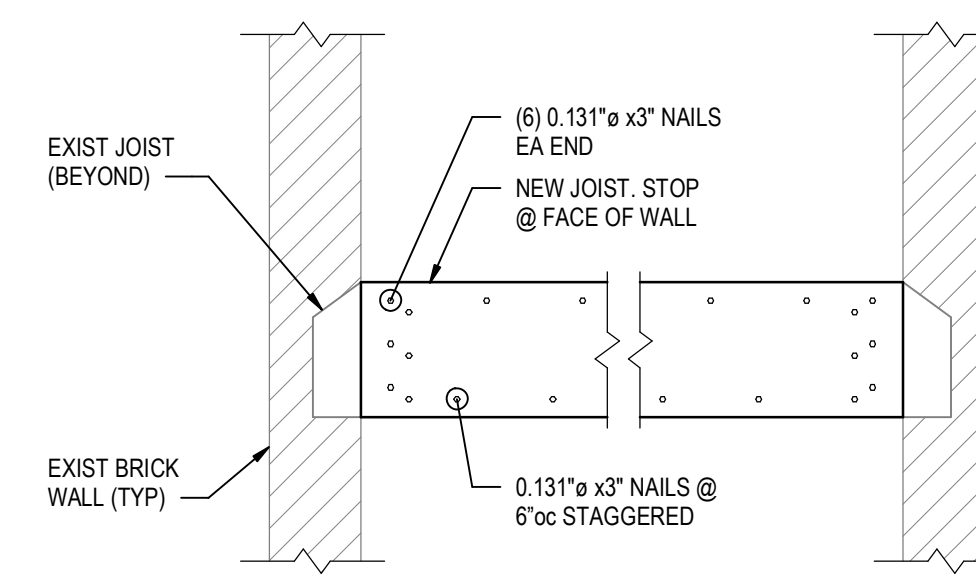
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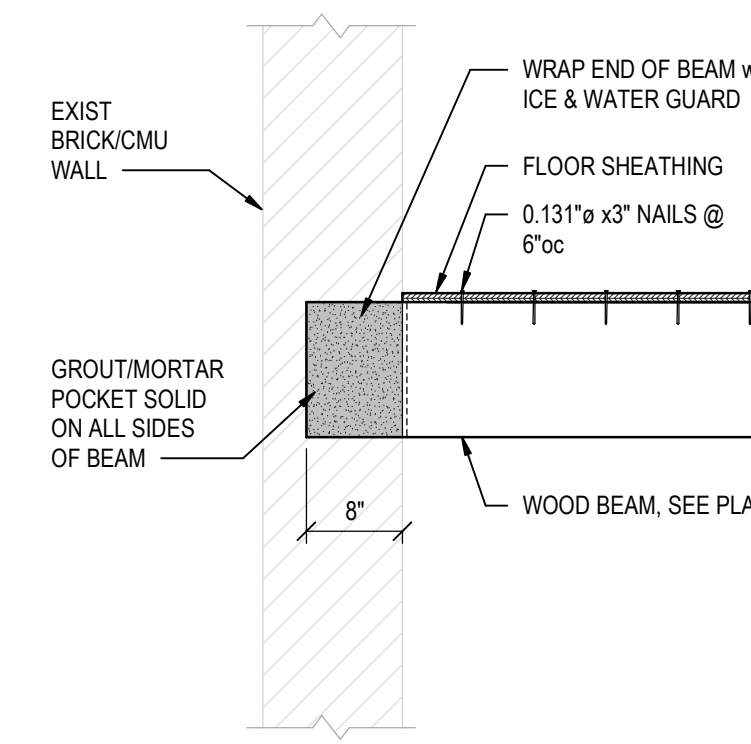
TYPICAL TIE OF EXISTING MASONRY WALL TO EXISTING FLOOR JOIST DETAIL
NTS



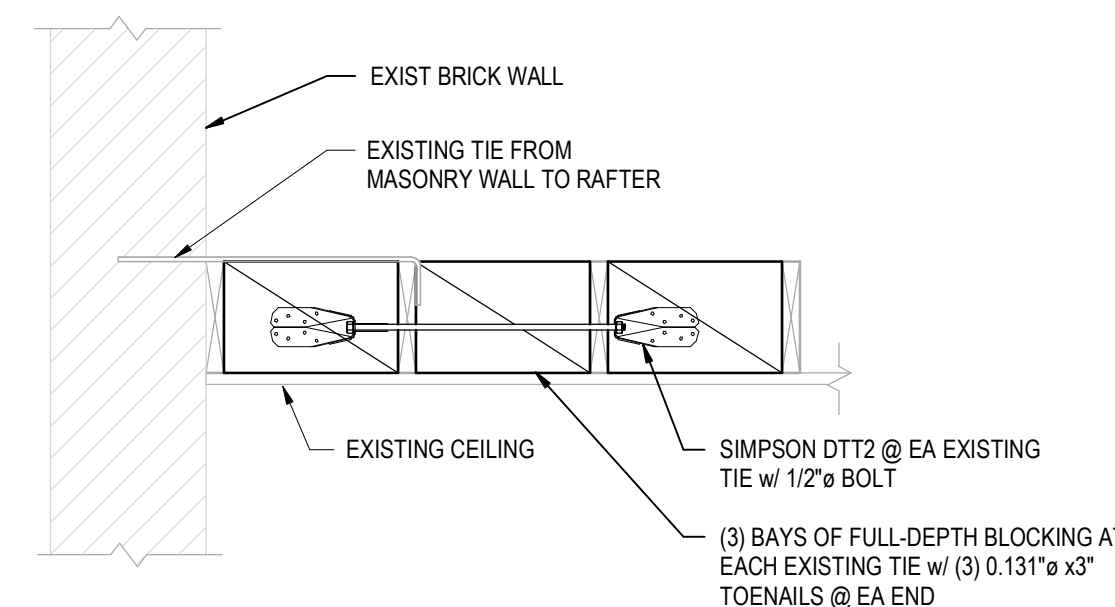
TYPICAL TIE OF EXISTING MASONRY WALL TO EXISTING FLOOR JOIST DETAIL
NTS



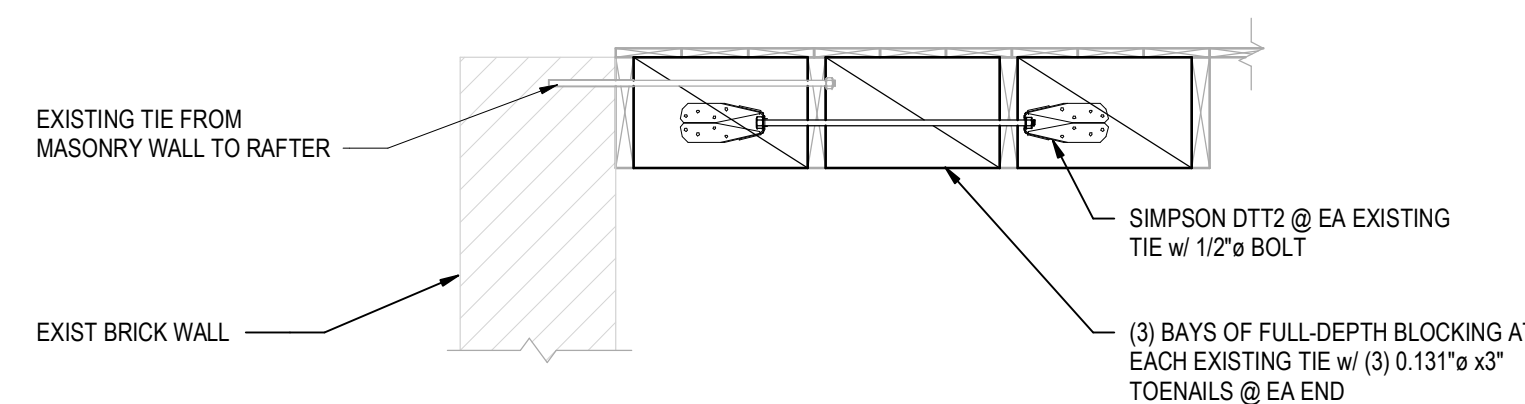
TYPICAL JOIST SISTERING DETAIL
NTS



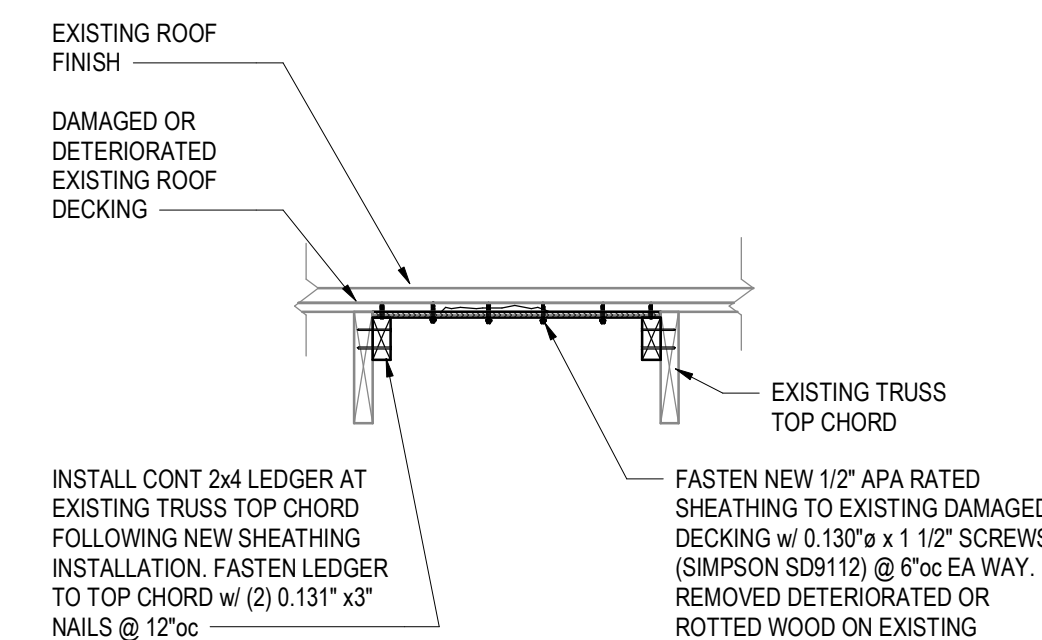
TYPICAL WOOD BEAM POCKET IN EXIST WALL DETAIL
NTS



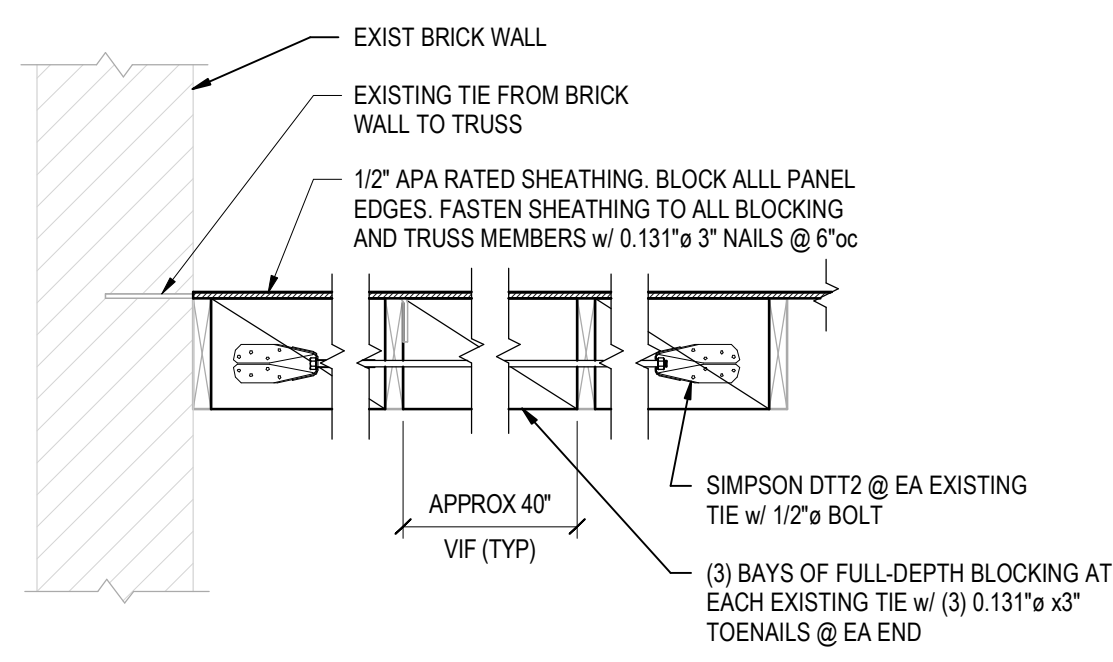
TYPICAL EXTENSION OF EXISTING MASONRY WALL TIE TO EXISTING RAFTER DETAIL
NTS



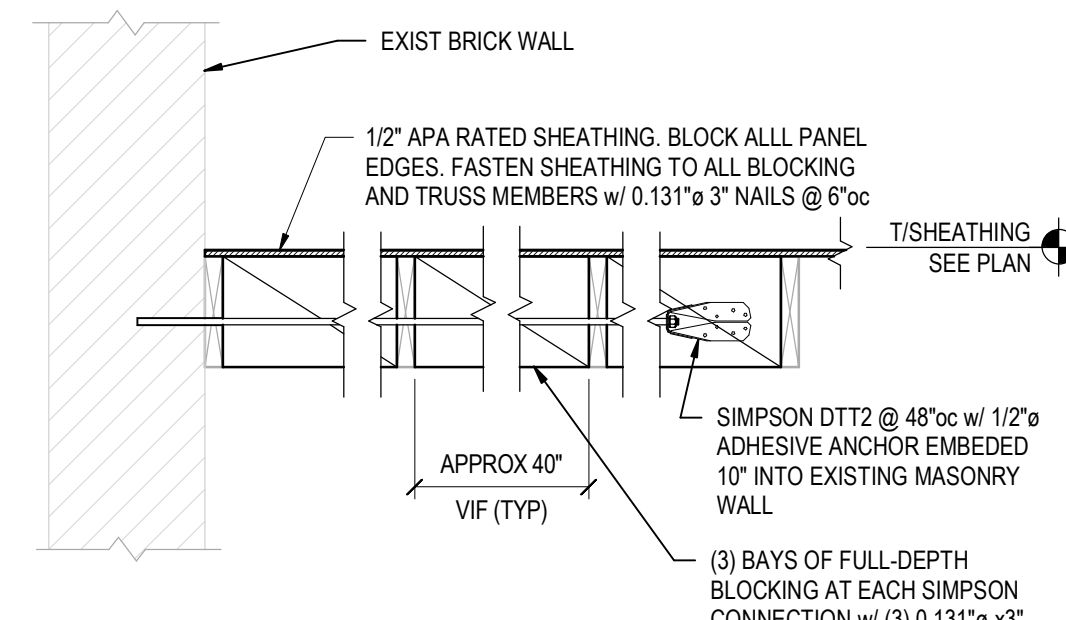
TYPICAL EXTENSION OF EXISTING MASONRY WALL TIE TO EXISTING RAFTER DETAIL
NTS



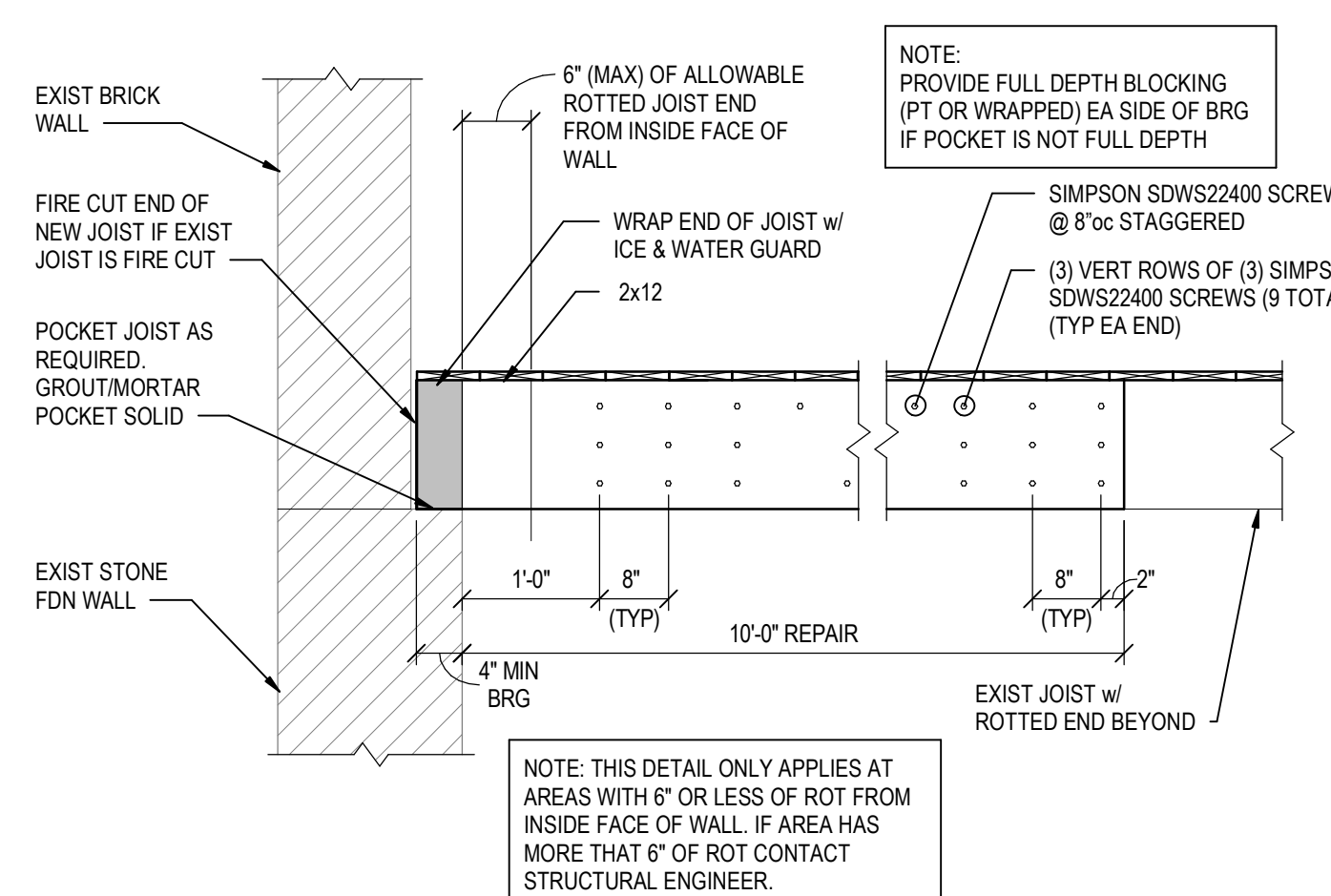
TYPICAL SHEATHING INSTALLATION AT WATER DAMAGED ROOF DECKING
3/4" = 1'-0"



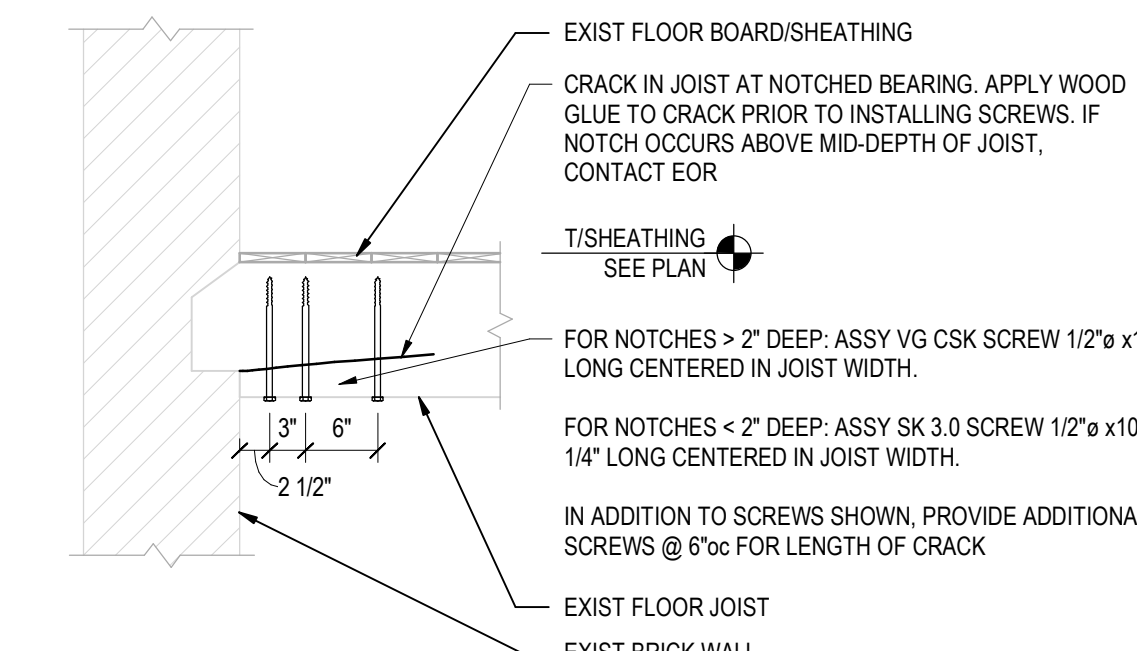
TYPICAL EXTENSION OF EXISTING MASONRY WALL TIE TO EXISTING ROOF TRUSS WEB MEMBER DETAIL
NTS



TYPICAL TIE OF EXISTING MASONRY WALL TO EXISTING ROOF TRUSS WEB MEMBER DETAIL
NTS



TYPICAL ROTTED JOIST END REINFORCING DETAIL
NTS



TYPICAL NOTCHED JOIST REINFORCING DETAIL
NTS

MARSHALL U OLD MAIN - PHASE 1 RENO

FOR

DESIGNED BY: CMM
DRAWN BY: TMW
CHECKED BY: DRS

ISSUE/REVISION/SUBMISSION
NO DATE DESCRIPTION
05/03/2024 100% CD

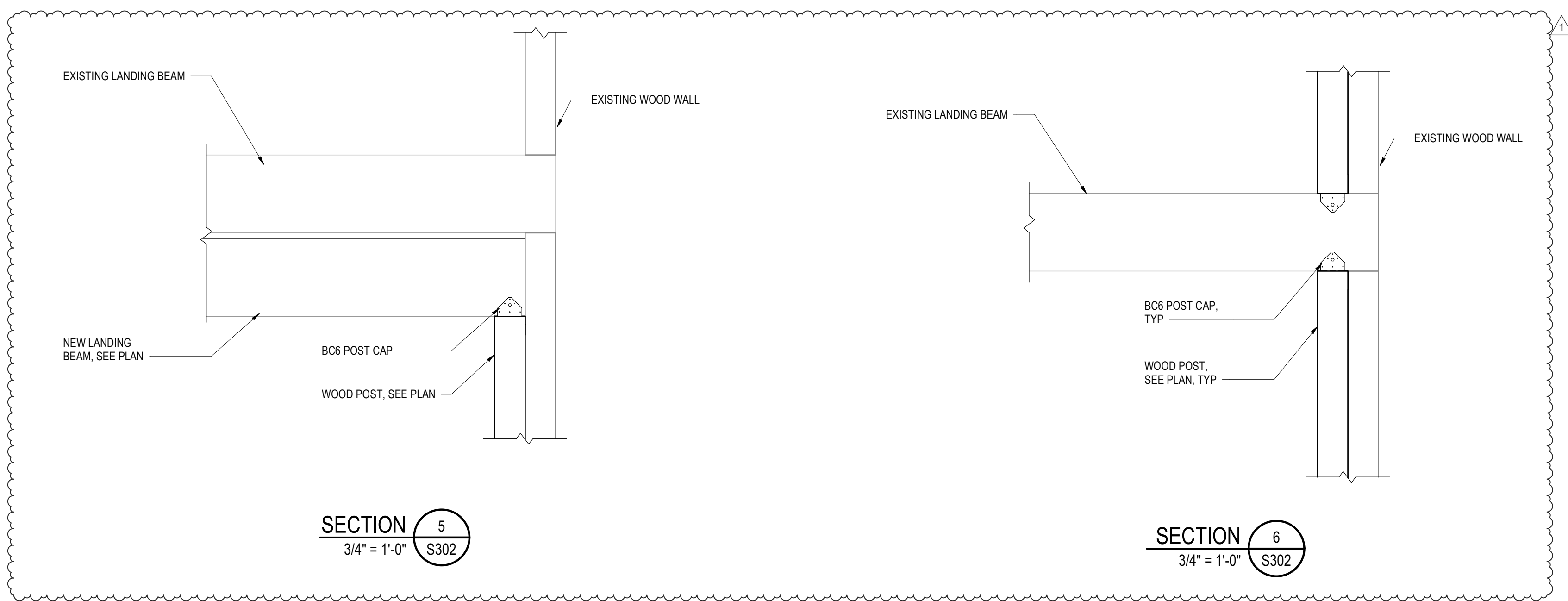
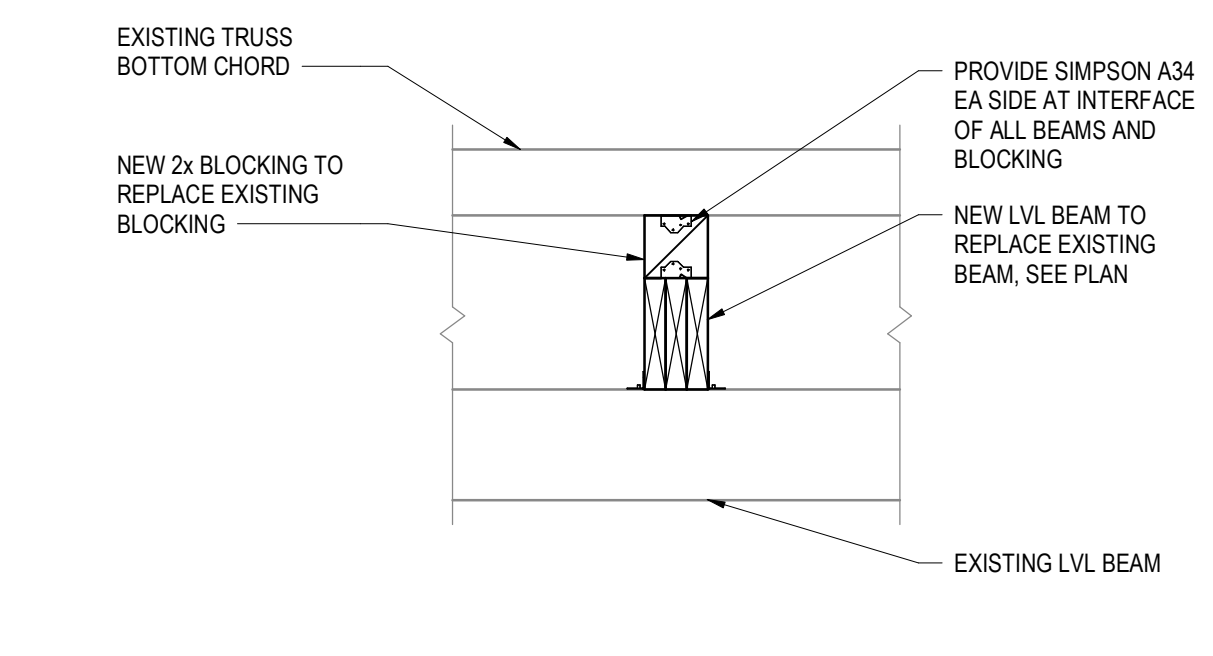
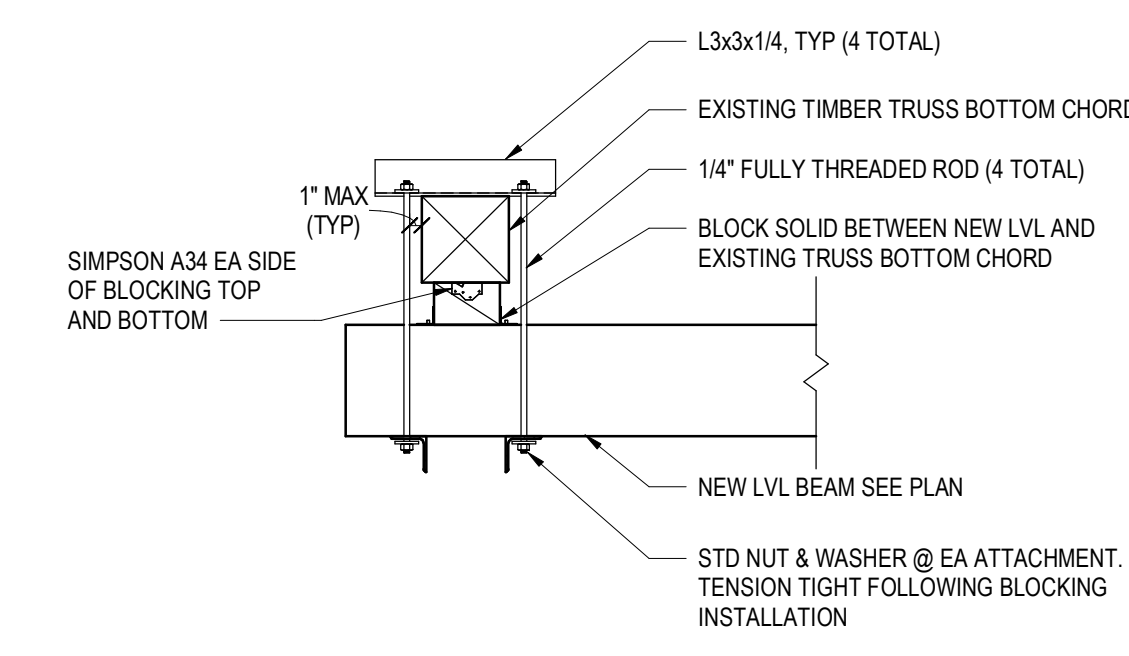
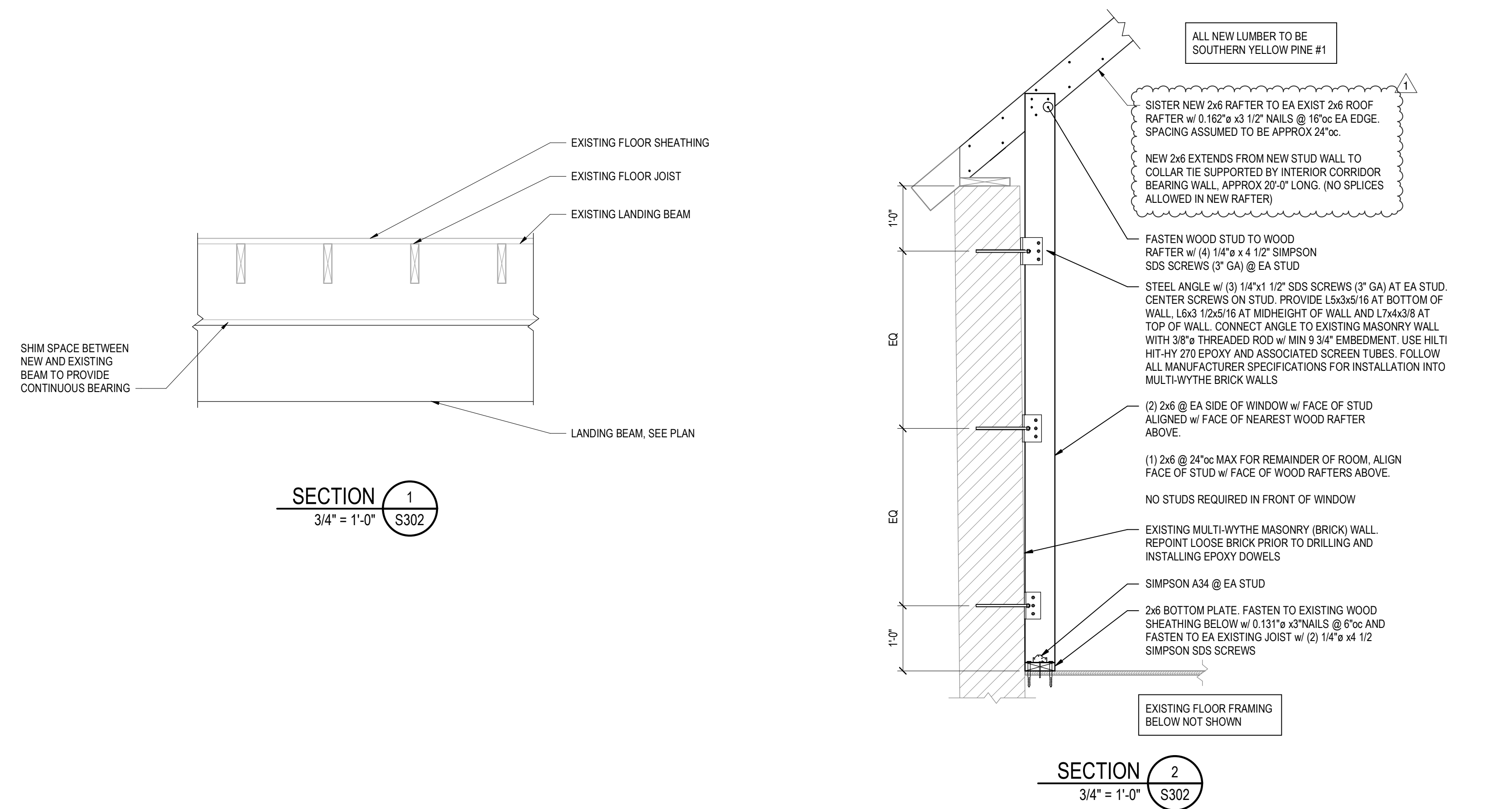
PROJECT NUMBER:
23-0967

SHEET NAME:
TYPICAL FRAMING SECTIONS

DATE:
05/03/2024

SHEET:
S301

STAMP:



**MARSHALL U OLD
MAIN - PHASE 1
RENO**

FOR

DESIGNED BY: CMM
DRAWN BY: TMW
CHECKED BY: DRS

ISSUE/REVISION/SUBMISSION		
NO	DATE	DESCRIPTION
1	05/03/2024	100% CD
	07/11/2024	ADDENDUM 1

PROJECT NUMBER:
23-0967

SHEET NAME:
**FRAMING
SECTIONS**

DATE:
05/03/2024

SHEET:
S302

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Project information.
- 2. Work covered by Contract Documents.
- 3. Work performed by Owner.
- 4. Contractor's use of site and premises.
- 5. Coordination with occupants.
- 6. Work restrictions.
- 7. Specification and Drawing conventions.
- 8. Miscellaneous provisions.

- B. Related Requirements:

- 1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 DEFINITIONS

- A. Work Package: A group of specifications, drawings, and schedules prepared by the design team to describe a portion of the Project Work for pricing, permitting, and construction.

1.4 PROJECT INFORMATION

- A. Project Identification: Old Main Structural Repairs

- 1. Project Location: 1 John Marshall Dr, Huntington, WV 25755.

- B. Owner: Marshall University

- 1. Owner's Representative: Jeff Pratt

- C. Engineer: Schaefer, Cincinnati, OH

1.5 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and includes, but is not limited to, the following:
 - 1. The project consists of the Phase 1 implementation of repairs and renovations documented in Schaefer's Level 1 condition assessment report of Marshall University's Old Main, dated March 3, 2023. The project scope items are based on the most critical structural priorities that were documented in the condition assessment and summarized in the assessment matrix included at the end of the report. The construction documents, which consist of drawings and specifications (included as general structural notes on the drawings) document the full scope of work to be included in the project. Refer to the bidding documents section of the contract documents for requirements on allowances, unit prices, and alternates to be incorporated into the work. The construction documents included were dated May 3, 2024.
- B. Type of Contract:
 - 1. Project will be constructed under a single prime contract.

1.6 WORK PERFORMED BY OWNER

- A. Cooperate fully with Owner, so work may be carried out smoothly, without interfering with or delaying Work under this Contract or work by Owner. Coordinate the Work of this Contract with work performed by Owner.
- B. Concurrent Work: Owner will perform the following construction operations at Project site. Those operations will be conducted simultaneously with Work under this Contract.
 - 1. It is the intent of the contract documents to exclude the installation of architectural finishes and the relocation of mechanical, electrical, and plumbing items as part of the work, limiting the scope to the structural repairs detailed on the drawings. In general, all conditions specified should be accessible and may be addressed without finish removal with the exception of the Level 3 restroom and adjacent stair where some finishes are in place. Removal of finishes and relocation of mechanical, electrical, and plumbing items, if required, shall be submitted to the Owner for approval prior to proceeding. In the case of the restroom, the final finishes will be installed by the Owner and are not included in the project. If there is limited drywall or other finish removal required, the Owner will repair and reinstall it at their own cost, unless negotiated otherwise with the selected contractor.

1.7 CONTRACTOR'S USE OF SITE AND PREMISES

- A. Restricted Use of Site: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.
- B. Limits on Use of Site: Limit use of Project site to Work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.

1. Driveways, Walkways and Entrances: Keep driveways and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or for storage of materials.
 - a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- C. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.
- D. Condition of Existing Grounds: Maintain portions of existing grounds, landscaping, and hardscaping affected by construction operations throughout construction period. Repair damage caused by construction operations.

1.8 COORDINATION WITH OCCUPANTS

- A. Full Owner Occupancy: Owner will occupy Project site and existing building(s) during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.
 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.
 2. Notify Owner not less than 72 hours in advance of activities that will affect Owner's operations.

1.9 WORK RESTRICTIONS

- A. Comply with restrictions on construction operations.
 1. Comply with limitations on use of public streets, work on public streets, rights of way, and other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work to between 7 a.m. to 5 p.m., Monday through Friday, unless otherwise indicated. Work hours may be modified to meet Project requirements if approved by Owner and authorities having jurisdiction.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging for temporary utility services according to requirements indicated:
 1. Obtain Owner's written permission before proceeding with utility interruptions.
- D. Noise, Vibration, Dust, and Odors: Coordinate operations that may result in high levels of noise and vibration, dust, odors, or other disruption to Owner occupancy with Owner.
 1. Obtain Owner's written permission before proceeding with disruptive operations.

- E. Employee Identification: Provide identification tags for Contractor personnel working on Project site. Require personnel to use identification tags at all times.
- F. Employee Screening: Comply with Owner's requirements for drug and background screening of Contractor personnel working on Project site.
 - 1. Maintain list of approved screened personnel with Owner's representative.

1.10 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 - 2. Text Color: Text used in the Specifications, including units of measure, manufacturer and product names, and other text may appear in multiple colors or underlined as part of a hyperlink; no emphasis is implied by text with these characteristics.
 - 3. Hypertext: Text used in the Specifications may contain hyperlinks. Hyperlinks may allow for access to linked information that is not residing in the Specifications. Unless otherwise indicated, linked information is not part of the Contract Documents.
 - 4. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 00 Contracting Requirements: General provisions of the Contract, including General and Supplementary Conditions, apply to all Sections of the Specifications.
- C. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- D. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Technical Specifications, provided as General Structural Notes on the Drawings.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000