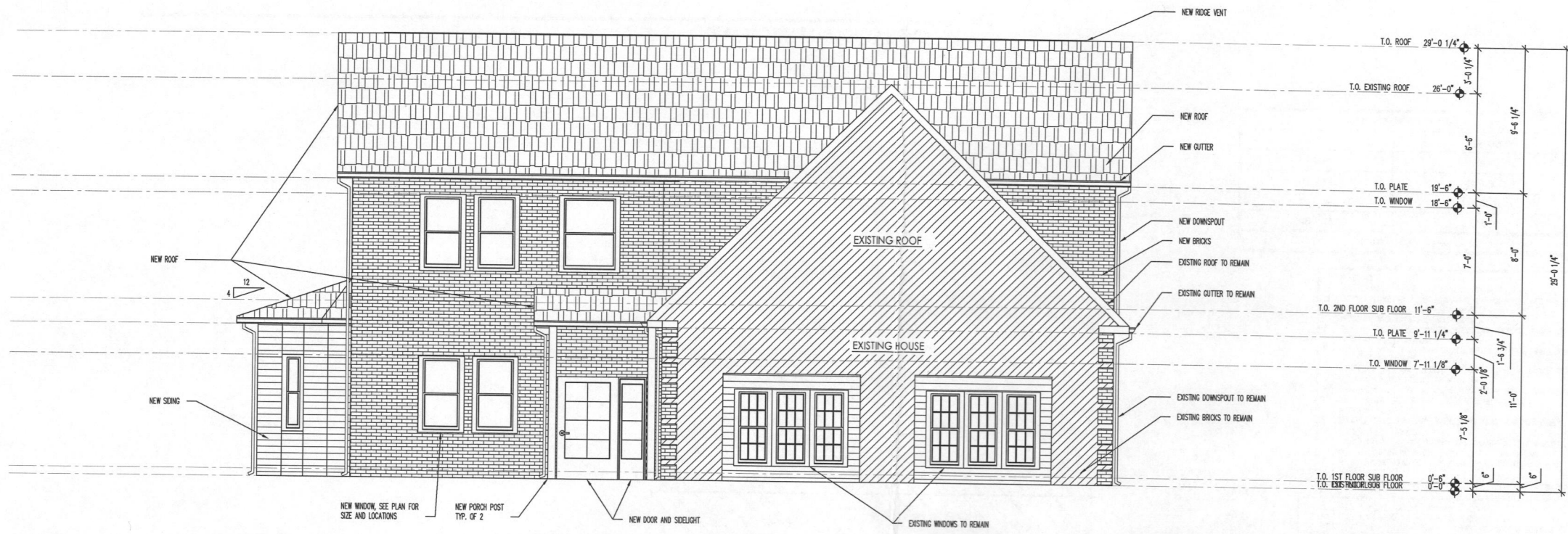
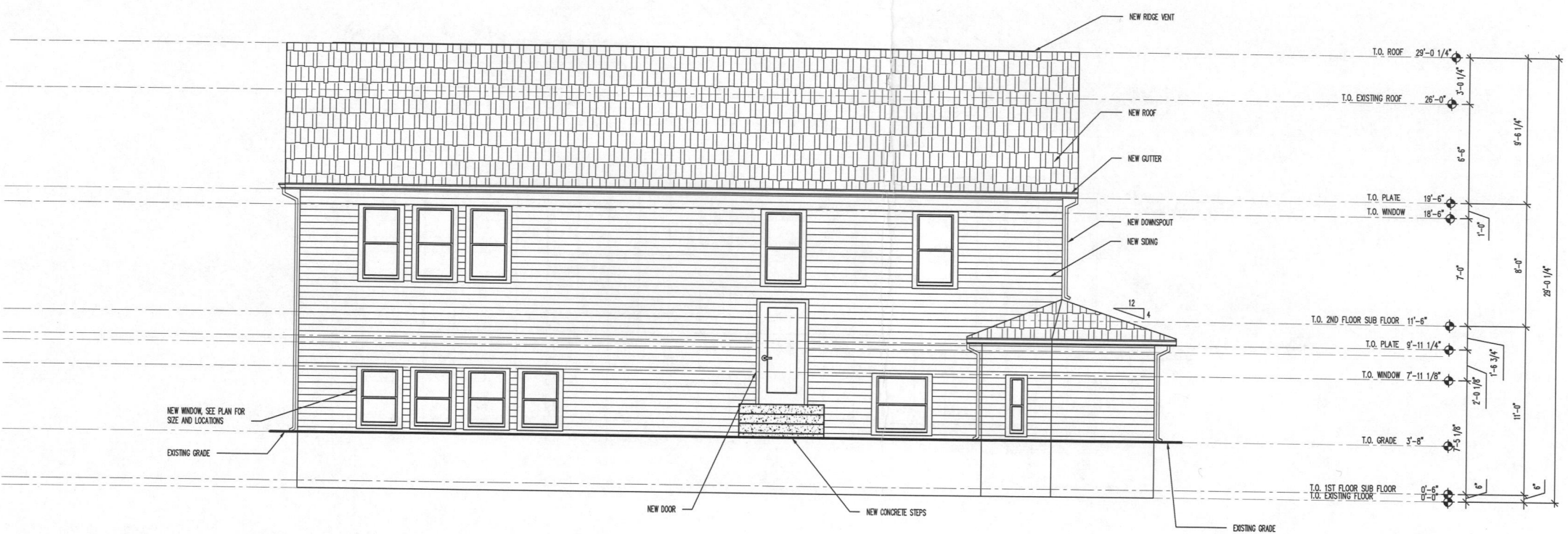




FRONT ELEVATION

1
S-301



REAR ELEVATION

2
S-301

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NO.	ISSUE/REVISION	DATE

Drawing: ELEVATIONS

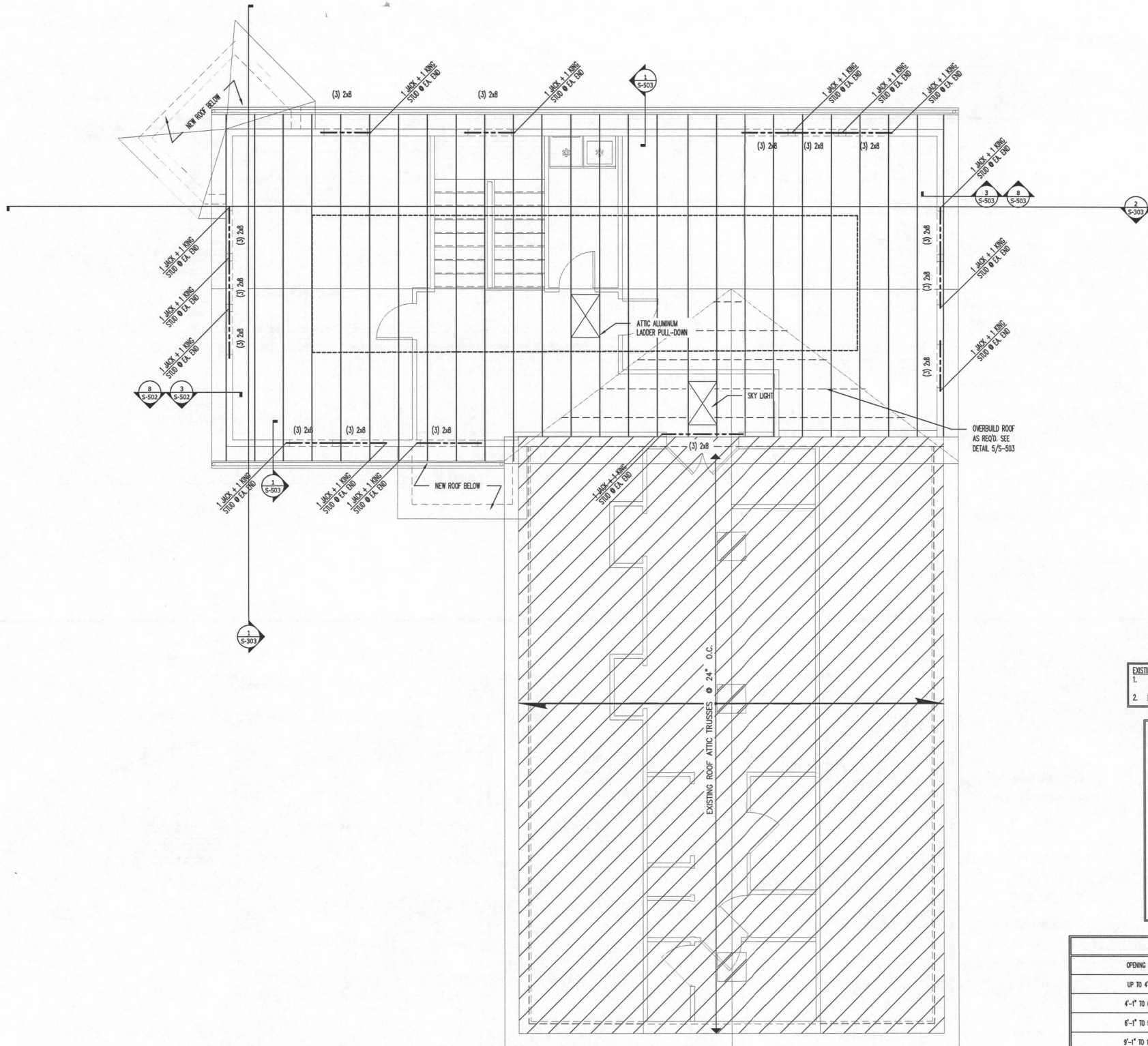
Project: KATHURIA GARAGE AT 15050 FREDRICK ROAD
WOODBINE, MD 21797

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A duly LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: 27311 EXPIRATION DATE: 06/12/2025

Nader Elhajj
2025.05.12
2025.05.12-04:00



Date: 05/12/2025	Project No: 25-001
Drawn: R.A.A.	Scale: SEE PLANS
Designed: R.A.A.	Drawing No.: S-301
Checked: R.A.A.	



- EXISTING STRUCTURAL FRAMING NOTES:
- ALL EXISTING STRUCTURAL FRAMING ELEMENTS TO REMAIN INCLUDING BUT NOT LIMITED TO ROOF, FLOOR, BEAM, HEADER AND POSTS ARE NOT SHOWN FOR CLARITY.
 - XXXXXX : INDICATES EXISTING STRUCTURAL TO REMAIN

- ROOF NOTES:
- ALL ROOF FRAMING TO BE PRE-ENGINEERED PRE-FABRICATED WOOD ROOF TRUSSES @ 24" O.C. DESIGNED AND SPACED BY OTHERS UNLESS NOTED OTHERWISE.
 - FOR PITCHED ROOFS, PROVIDE 1/2" APA RATED SHEATHING W/ METAL CLIPS @ 24" O.C. (SIMPSON PCSL OR EQ).
 - SEE DIMS. FOR ALL DIMENSIONS, OVERHANGS AND SLOPES. ROOF SHALL SLOPE A MINIMUM OF 1/4" PER FOOT.
 - PROVIDE SIMPSON "H2.51" MINIMUM AT EACH TRUSS BEARING POINT.
 - TRUSS MFR. TO VERIFY ROOF TRUSS SPANS, HELL HEIGHTS, PITCHES, ROOF HATCHES, OVERHANG, AND COVERED/TRAY CEILING LOCATION.
 - PROVIDE MINIMUM (2) STUDS AT EACH END OF GORDER TRUSSES & HIP JACKS UNLESS NOTED OTHERWISE ON PLAN.
 - ROOF TRUSS LAYOUT SHOWN IS FOR GUIDANCE ONLY. ACTUAL TRUSS LAYOUT SHALL BE INCLUDED W/ SHOP DRAWINGS.
 - TRUSS MFR. TO DESIGN ROOF TRUSSES FOR ADDITIONAL LOADS DUE TO ROOF TOP MECHANICAL UNITS OR OTHER UNCOMMON LOADING.
 - SHEAR WALLS: SEE SHEET S-800 FOR SHEAR WALLS.
 - BEARING STUD WALL SIZES SHALL BE 2x6 @ 16" O.C. NON-BEARING STUD WALL SIZE SHALL BE 2x4 OR 2x6 @ 24" O.C. SPF STUD GRADE OR BETTER UP TO 14'-0" HEIGHT MAX.

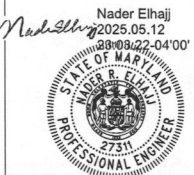
LOOSE LINTEL SCHEDULE	
OPENING SIZE	ANGLE SIZE
UP TO 4'-0"	L3 1/2"x3 1/2"x1/4"
4'-1" TO 6'-0"	L5x3 1/2"x1/4"(LLV)
6'-1" TO 8'-0"	L6x3 1/2"x5/8"(LLV)
8'-1" TO 11'-0"	L7x4"x3/8"(LLV)
NOTE: PROVIDE MIN. 6" BEARING AT EACH END.	

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

NEW ROOF FRAMING PLAN

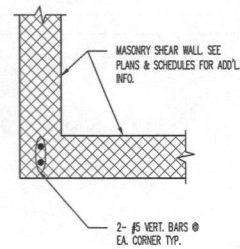
1
S-202

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LICENSE NO. 27311, EXPIRATION DATE 04/22/2025



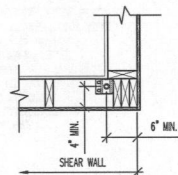
Date: 05/12/2025
Drawn: R.A.A.
Designed: R.A.A.
Checked: R.A.A.

Project No.: 25-001
Scale: SEE PLANS
Drawing No.: S-202



TYPICAL CMU CORNER

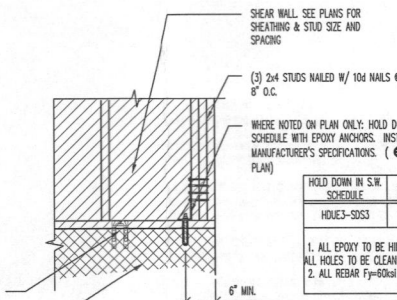
SCALE: 3/4" = 1'-0" PLAN VIEW S-502



PLAN AT WALL END

SIMPSON "WASA" SILL PLATE FASTENERS, SEE SHEAR WALL SCHEDULE FOR SPACING

CONC. CMU WALL SEE PLANS FOR SIZE

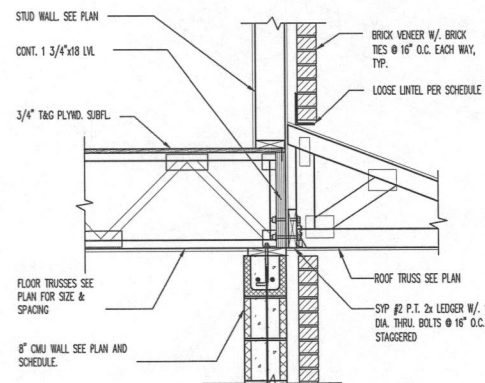


TYPICAL EXTERIOR SHEAR WALL

SCALE: 3/4" = 1'-0" S-502

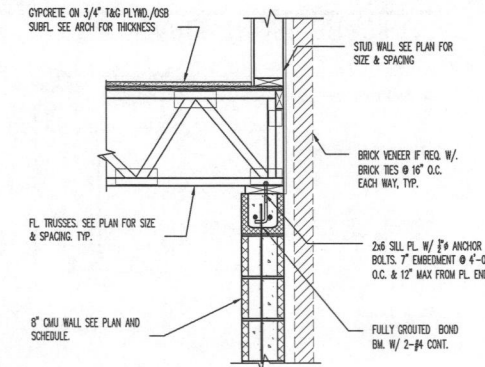
HOLD DOWN IN S.W. SCHEDULE	REBAR SIZE	EMBEDMENT	EDGE DISTANCE
H0053-S003	#5	10"	4"

1. ALL EPOXY TO BE HILTI "HIT-HY200 VS" USING "SAFESET" SYSTEM. ALL HOLES TO BE CLEANED AND FREE OF DUST.
2. ALL REBAR Fy=60ksi



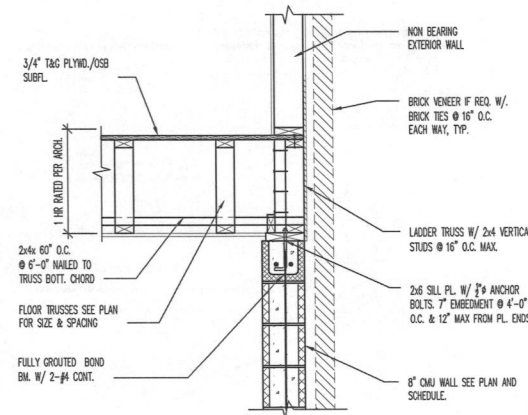
LOW ROOF

SCALE: 3/4" = 1'-0" S-502



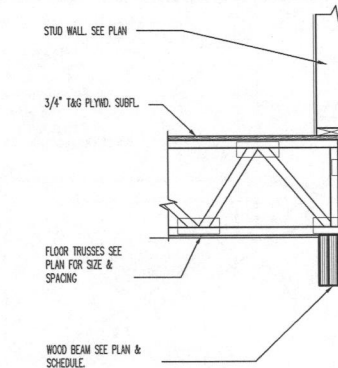
TYPICAL EXTERIOR WALL

SCALE: 3/4" = 1'-0" TRUSSES BEARING S-502



TYPICAL EXTERIOR WALL

SCALE: 3/4" = 1'-0" PARALLEL TO FLOOR TRUSSES S-502



TYP. DROPPED WOOD BEAM

SCALE: 3/4" = 1'-0" AT EDGE S-502

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NO.	ISSUE/REVISION	DATE

Drawing: **KATHURIA GARAGE AT 15050 FREDRICK ROAD**

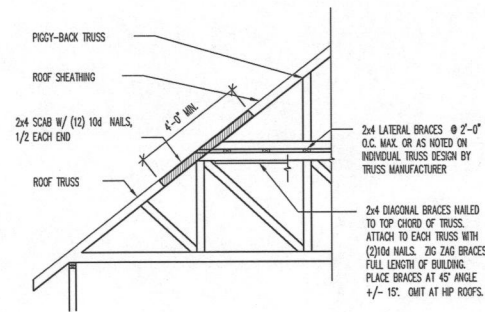
Project: **WOODBINE RD 2177Z**

PROFESSIONAL CERTIFICATION
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LICENSE NUMBER: 27331 EXPIRATION DATE: 06/01/2028

Nader Elhajj
2025.05.12
2025.05.23-04:00

STATE OF MARYLAND
NADER R. ELHAJJ
27331
PROFESSIONAL ENGINEER

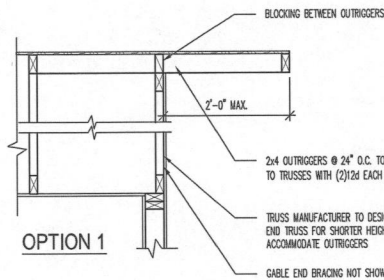
Date: 05/12/2025	Project No: 25-001
Drawn: R.A.A.	Scale: SEE PLANS
Designed: R.A.A.	Drawing No: S-502
Checked: R.A.A.	



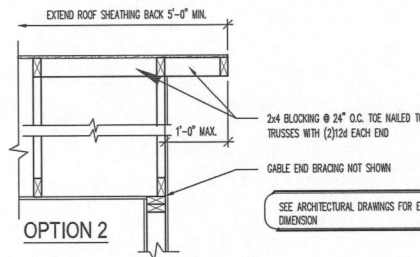
TYP. TRUSS PIGGYBACK DETAIL

SCALE: 3/4" = 1'-0"

7
S-503



OPTION 1

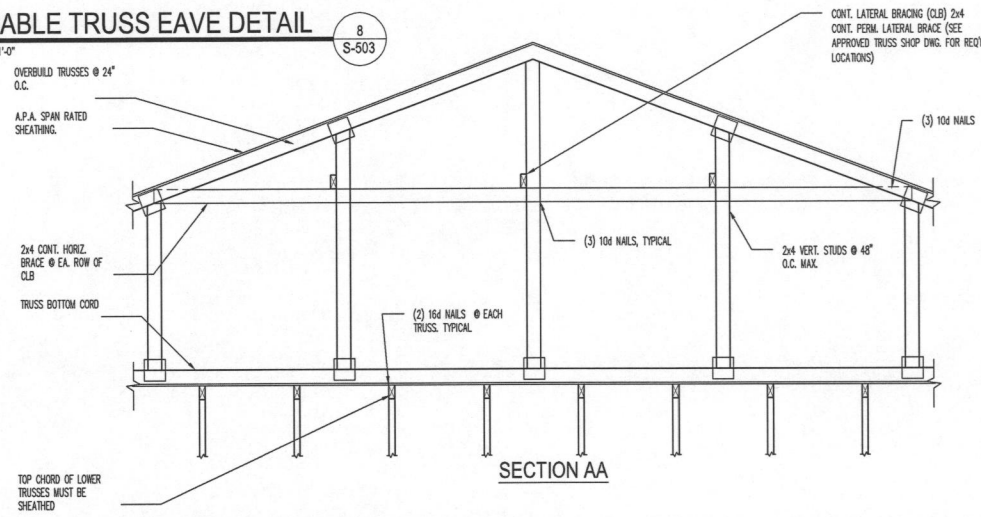


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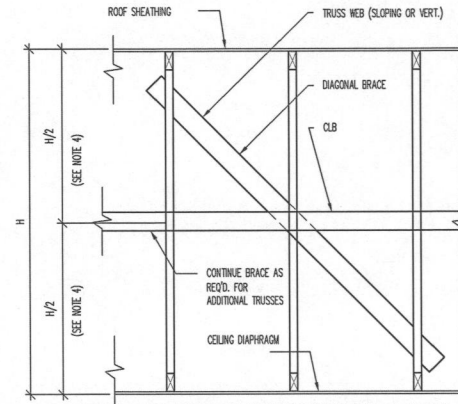
TYP. GABLE TRUSS EAVE DETAIL

SCALE: 3/4" = 1'-0"

8
S-503



SCALE: N.T.S.



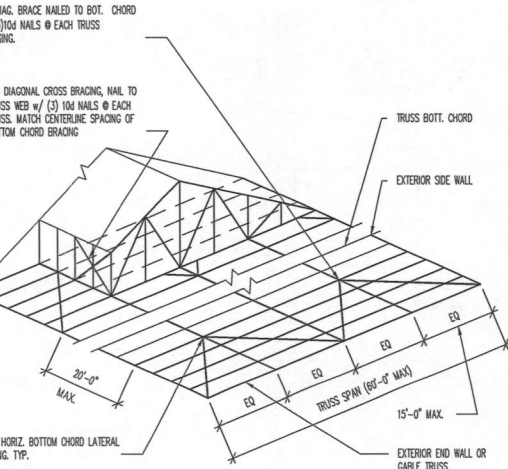
TYPICAL WEB BRACING

SCALE: 3/4" = 1'-0"

6
S-503

TRUSS BRACING NOTES:

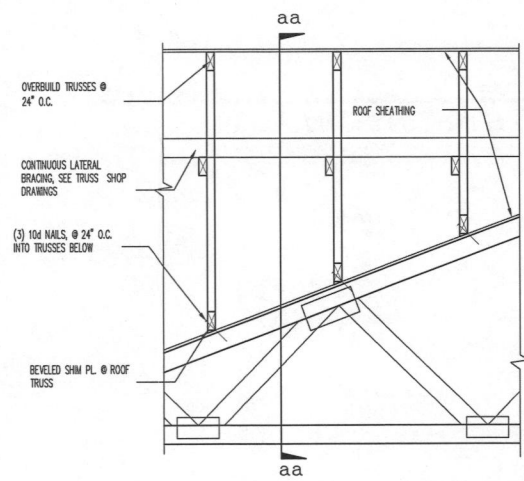
- UNLESS OTHERWISE NOTED, DIAGONAL BRACING IS REQUIRED AT EACH CONTINUOUS LATERAL WEB BRACE SPECIFIED ON APPROVED TRUSS SHOP DRAWINGS.
- MINIMUM ANCHORAGE OF 2x4 CONTINUOUS LATERAL BRACE AND DIAGONAL BRACE SHALL BE TWO 16d SINKER NAILS (0.148" DIAMETER x 3" LONG) AT EACH TRUSS CROSSING, UNLESS OTHERWISE NOTED OR APPROVED.
- DIAGONAL BRACES SHALL BE ONE PIECE CONTINUOUS OR SPLICING PROCEDURE SHALL BE APPROVED BY THE ENGINEER. DIAGONAL BRACES SHALL TERMINATE WITHIN 6" OF SHEATHED TRUSS CHORD AND SHALL ENGAGE A MINIMUM OF THREE TRUSSES.
- INTERVAL BETWEEN CONTINUOUS LATERAL BRACES SHALL BE H/3 WHEN 2 ROWS OF BRACES ARE REQUIRED.



TYP. BOTTOM CHORD BRACING

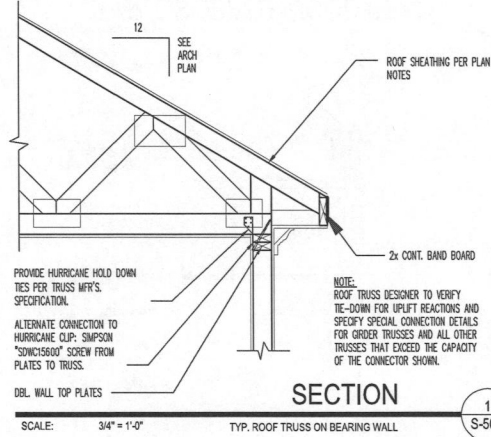
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4
S-503



TYPICAL OVERBUILD FRAMING

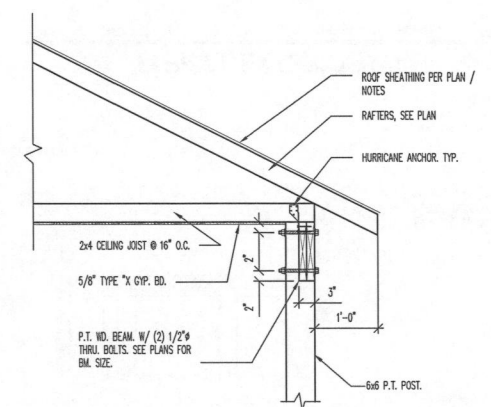
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S-503



SECTION 1

SCALE: 3/4" = 1'-0"

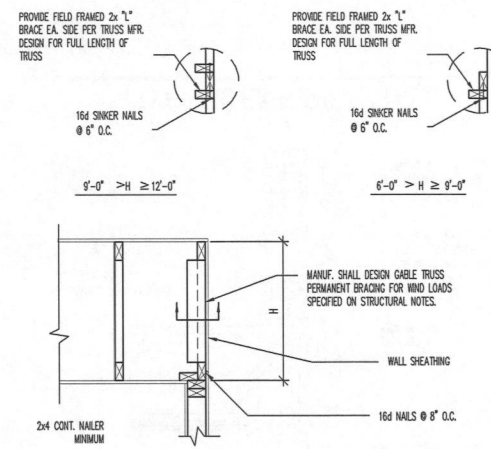
1
S-503



SECTION 2

SCALE: 3/4" = 1'-0"

2
S-503



TYP. GABLE TRUSS BRACING

SCALE: 3/4" = 1'-0"

3
S-503

FRAMING DETAILS

Drawing:

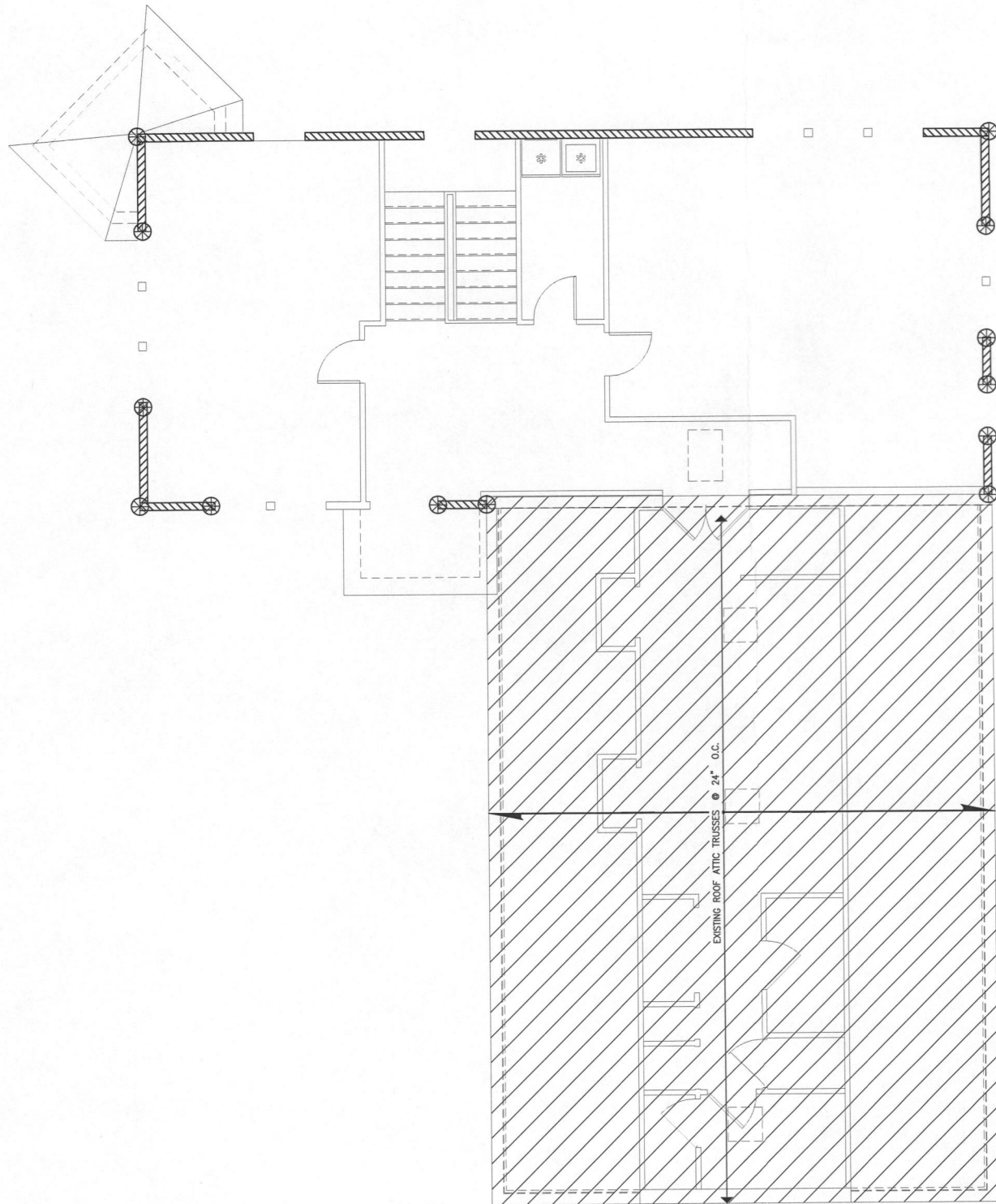
Project: KATHURIA GARAGE AT 15050 FREDRICK ROAD
WOODBINE, MD 21777

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LICENSE NUMBER: 27311 EXPIRATION DATE: 04/01/2026

Nader Elhajj
2025.05.12
2025-05-12
2025-05-12



Date: 05/12/2025
Project No.: 25-001
Drawn: R.A.A.
Scale: SEE PLANS
Designed: R.A.A.
Drawing No.: 27311
Checked: R.A.A.
S-503



EXISTING STRUCTURAL FRAMING NOTES:
1. ALL EXISTING STRUCTURAL FRAMING ELEMENTS TO REMAIN INCLUDING BUT NOT LIMITED TO ROOF, FLOOR, BEAM, HEADER AND POSTS ARE NOT SHOWN FOR CLARITY.
2. [Hatched Pattern] : INDICATES EXISTING STRUCTURAL TO REMAIN

SHEAR WALL SCHEDULE		
THE FOLLOWING ARE TYPICAL UNLESS NOTED OTHERWISE ON PLAN		
EXTERIOR WALLS		
FLOOR	WALL TYPE	HOLD DOWN
2ND FLOOR (ROOF FRAMING)	SW-1	HD16C-5053
NOTES		
1. ALL EXTERIOR WALLS ARE SHEATHED AS SHEAR WALLS. PROVIDE SHEATHING AND HOLD DOWNS () AS SHOWN ABOVE. 2. ADDITIONAL OR SPECIAL SHEAR WALLS ARE SHOWN AS [Hatched Pattern]. 3. HOLD DOWNS ARE REQUIRED AT EACH OF SHEAR WALL SHOWN ON PLANS. 4. ALL CONNECTORS SPECIFIED ARE SIMPSON STRONG-TIE. 5. SEE WOOD SHEAR WALL SCHEDULE FOR SHEAR DESIGNATION AND INFORMATION. SEE 5/S-502 FOR DETAILS.		

WOOD SHEAR WALL SCHEDULE									
WALL MARK	SHEATHING MATERIAL	EDGES BLOCKED	TYPE OF FASTENER	SPACING OF FASTENERS (2)		SILL PLATE NAULING (7)	ATTACHMENT TO CMU WALL		PLAN DIAGRAM
				EDGE NAULING	FIELD NAULING		MASA STRAPS SPACING (8)	3/4" TIEB HD OR ANCHOR BOLT SPCS. (9)	
SW-1	7/16" OSB SHEATHING EXPOSURE 1 (NOTE 3)	YES	8d COMMON 2-1/2" x 0.131" # OR 10d RING SHANK 3"x0.128" #	6"	12"	3 NAILS @ 16" O.C.	3'-0" O.C.	3'-0" O.C.	
			8d RING SHANK 2-3/8" x 0.113" #	4"	12"				
NOTES: 1. WALL STUDS SHALL BE SPACED 16" O.C. MAX IN SHEAR WALLS 2. FASTENERS SHALL HAVE A MINIMUM OF 3" EDGE DISTANCE. 3. INSTALL WALL SHEATHING CONTINUOUS ACROSS THE FLOOR SYSTEM AND LAP 1'-0" MIN. INTO WALL BELOW. AS AN ALTERNATE TO LAPPING SHEATHING, PROVIDE SIMPSON "CS16"x 52" LONG STRAPS CENTERED ON TRUSS. LOCATE STRAPS AT WALL ENDS, AT JACKS, AND @ 4'-0" O.C. MAX BETWEEN. 4. 6d (1-7/8" x 0.092") NAILS MAY BE USED AS A SUBSTITUTE FOR #6 DRYWALL SCREWS. 5. SEE DETAILS FOR MORE REQUIREMENTS. 6. FOR NAILS SPACED AT 2" O.C., FRAMING AT PANEL EDGES AND BLOCKING MUST BE DOUBLE 2x OR 3x MEMBERS. STAGGER FASTENERS TO AVOID SPLITTING. 7. SILL PLATE NAILS SHALL BE 12d SINKER NAILS OR BETTER. 8. "MASA" STRAPS BY SIMPSON. 9. WITH 2 3/4" EMBEDMENT AND 1 3/4" EDGE DISTANCE. 10. FASTENERS SHALL BE 0.162" MIN. WITH A 1 1/2" EMBEDMENT DEPTH. FASTENERS SHALL HAVE A WASHER AND BE COMPATIBLE WITH WOOD TREATMENT ON SILL ON SILL PLATE. CUT NAILS ARE NOT ACCEPTABLE. 11. ALL SHEATHING FASTENERS SHALL PENETRATE INTO WOOD BLOCKING. DO NOT NAIL SHEAR WALL PANELS OVER RC CHANNELS.									

NEW 2ND FLOOR SHEAR WALL PLAN

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

1
S-600

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Nader Elhaj
2025.05.12
09/23/2024 04:00



Drawing: NEW SHEAR WALL PLAN

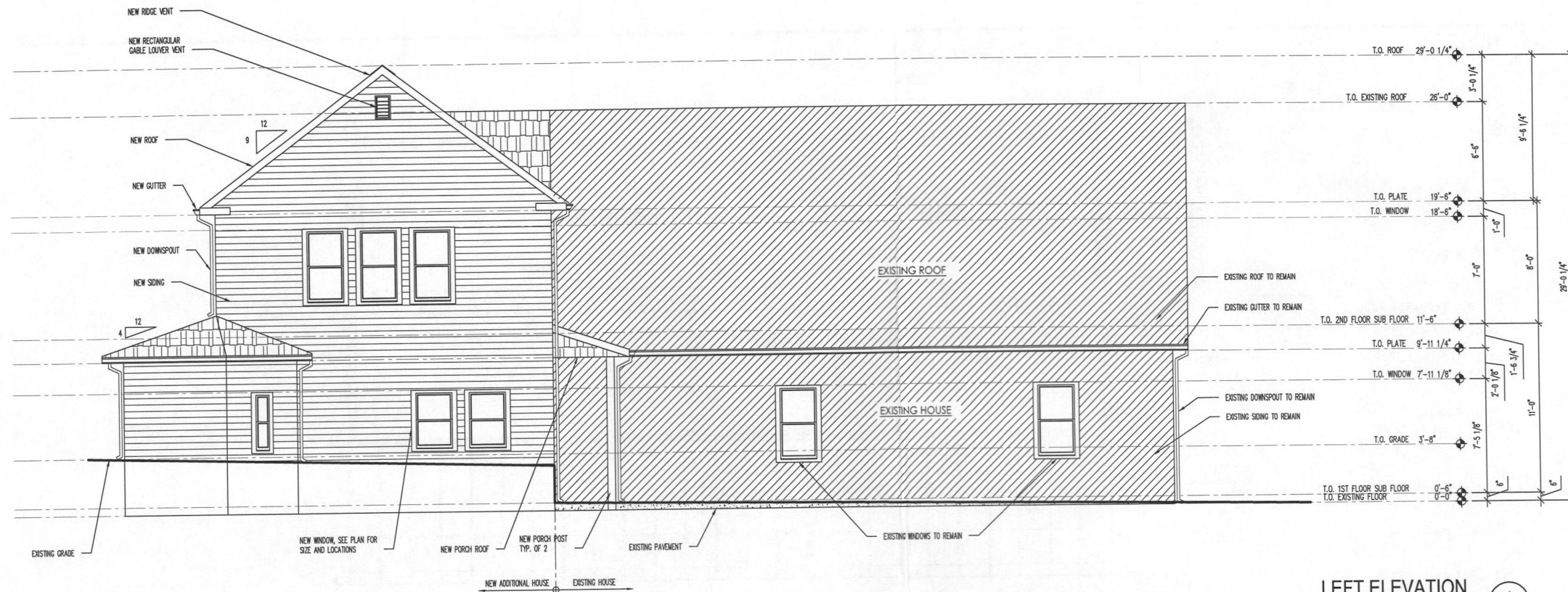
Project: KATHURIA GARAGE AT 15050 FREDRICK ROAD
WOODBINE, MD 21797

DATE

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NO.

Date: 05/12/2025
Drawn: R.A.A.
Designed: R.A.A.
Checked: R.A.A.
Project No.: 25-001
Scale: SEE PLANS
Drawing No.: S-600



LEFT ELEVATION

1
S-302



RIGHT ELEVATION

2
S-302

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2025.05.12
2023-03-23-04'00"

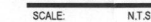
STATE OF MARYLAND
NADER R. ELHAJJ
27311
PROFESSIONAL ENGINEER

Date: 05/12/2025
Drawn: R.A.A.
Designed: R.A.A.
Checked: R.A.A.

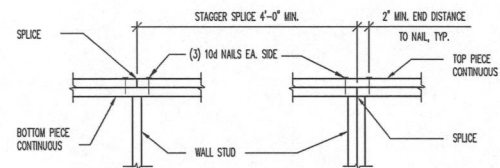
Project No.: 25-001
Scale: SEE PLANS
Drawing No.: S-302



* INDICATES THE REINFORCEMENT CALLED OUT TO BE PLACED IN THE CENTER OF THE CELL. OTHERWISE THE REINFORCEMENT SHOULD BE PLACED AT THE SIDES OF THE CELL.



Date: 05/12/2025	Project No.: 25-001
Drawn: R.A.A.	Scale: SEE PLANS
Designed: R.A.A.	Drawing No.:
Checked: R.A.A.	S-401

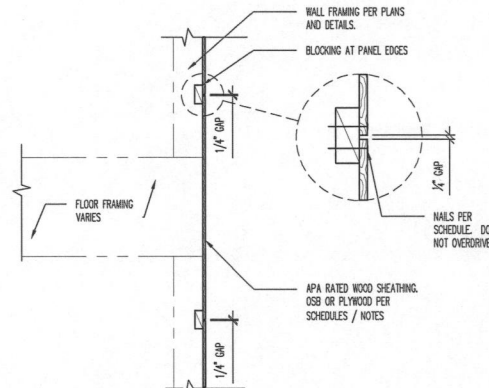


- NOTES:
1. INSTALL TOP PLATES IN MINIMUM 8'-0" LENGTHS.
 2. DO NOT SPICE TOP PLATES IN WALL SECTIONS LESS THAN 8'-0" IN LENGTH.
 3. PROVIDE MINIMUM (1) WALL STUD AT ALL TOP PLATE SPICES.
 4. SEE FASTENING SCHEDULE FOR ALTERNATE NAIL ATTACHMENTS.
 5. LAP SPICE ALL TOP PLATES AT INTERSECTIONS.

TYPICAL TOP PLATE SPICE

SCALE: N.T.S.

10
S-501

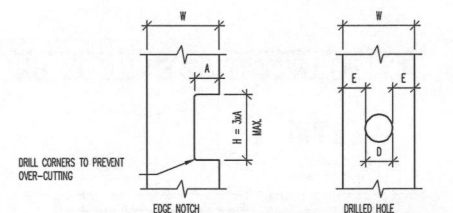


TYPICAL SHEATHING GAPS

SCALE: 3/4" = 1'-0"

AT WOOD SHEATHING

11
S-501



	A MAX.	D MAX.	E MIN.
2x4	7/8"	1 3/8"	5/8"
2x6	1 3/8"	2 1/8"	5/8"
2x8	1 3/4"	2 7/8"	5/8"

NOTES:

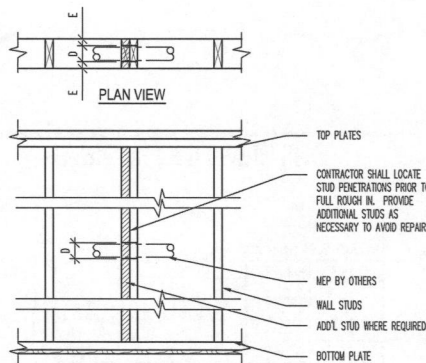
EDGE NOTCHES OR BORED HOLES OUTSIDE THE LIMITS OF THESE GUIDELINES, INCLUDING ALL CONDITIONS WHERE THREE OR MORE WALL STUDS IN A ROW ARE CUT OR NOTCHED SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.

NOTCHES AND HOLES SHALL NOT OCCUR IN THE SAME CROSS-SECTION.

STUD NOTCH/HOLE LIMITS

SCALE: N.T.S.

12
S-501



	D MAX. WITH DOUBLED STUDS	D MAX. WITH SINGLE STUD	E MIN.
2x4	2 1/8"	1 3/8"	5/8"
2x6	3 1/4"	2 1/8"	5/8"
2x8	4 1/4"	2 7/8"	5/8"

NOTES:

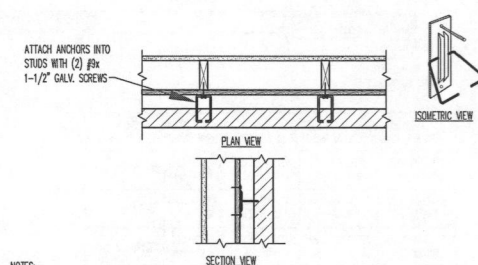
BORED HOLES OUTSIDE THE LIMITS OF THESE GUIDELINES, INCLUDING ALL CONDITIONS WHERE THREE OR MORE WALL STUDS IN A ROW ARE CUT OR NOTCHED SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.

PENETRATION THRU WALL STUDS

SCALE: 3/4" = 1'-0"

BEARING WALL

7
S-501

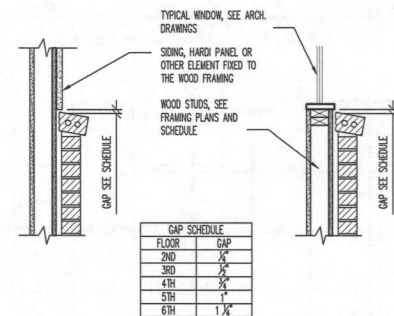


- NOTES:
1. BRICK VENEER WALLS TALLER THAN 3'-0" OR WITH AN AIRSPACE GREATER THAN 1" SHALL BE ANCHORED FOR THE ENTIRE HEIGHT WITH "DW-10" SERIES VENEER ANCHORS BY "HORMANN AND BARNARD" OR APPROVED EQUIVALENT. GENERAL CONTRACTOR SHALL PROVIDE SUBMITTAL FOR APPROVAL PRIOR TO CONSTRUCTION.
 2. ALL ANCHORS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION CONFORMING TO ASTM A-153 CLASS B2.
 3. EMBED ALL ANCHORS IN THE MORTAR JOINT 1 1/2" MIN. WITH AT LEAST 3/4" COVER TO THE OUTSIDE FACE.
 4. SPACE ANCHORS AT 16" O.C. VERTICAL AND 16" O.C. HORIZONTAL.
 5. PROVIDE ADD'L ANCHORS AROUND ALL OPENINGS GREATER THAN 16" IN EITHER DIMENSION. SPACE ANCHORS AROUND PERIMETER OF OPENINGS AT A MAX. OF 3'-0" O.C. AND WITHIN 12" OF OPENING.
 6. SEE SHEET S-002 FOR ADDITIONAL BRICK VENEER REQUIREMENTS.

TYPICAL BRICK VENEER ANCHORS

SCALE: N.T.S.

8
S-501



GAP SCHEDULE	
FLOOR	GAP
2ND	1/4"
3RD	1/4"
4TH	1/4"
5TH	1/4"
6TH	1/4"

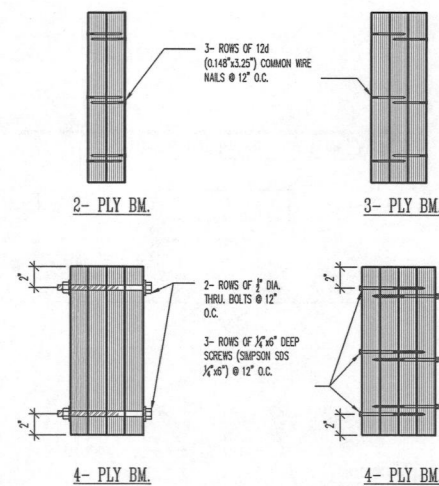
NOTE:

FOR BRICK VENEER CONSTRUCTION OVER 25'-0" ALLOW FOR EXPANSION OF BRICK AND SETTLEMENT OF WOOD FRAMING AT FIXED ELEMENTS.

TYPICAL SETTLEMENT JOINTS

SCALE: N.T.S.

9
S-501

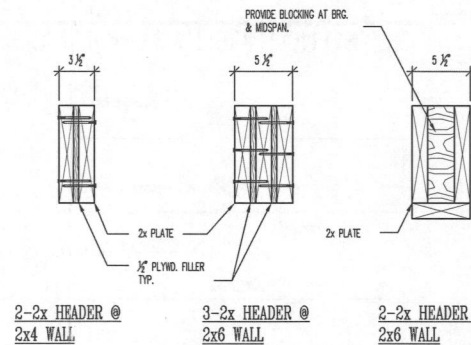


MULTIPLE-PLY BM. CONNECTION

SCALE: N.T.S.

FOR SIDE LOADED BEAMS

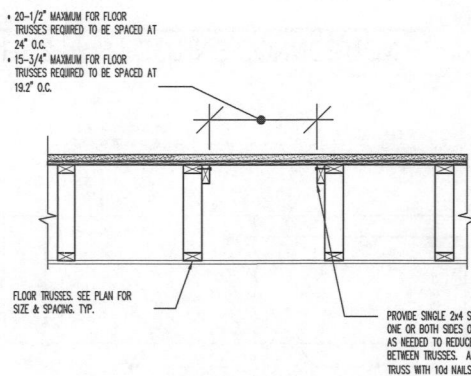
4
S-501



TYP. MULTIPLE HEADER CONNECTION

SCALE: N.T.S.

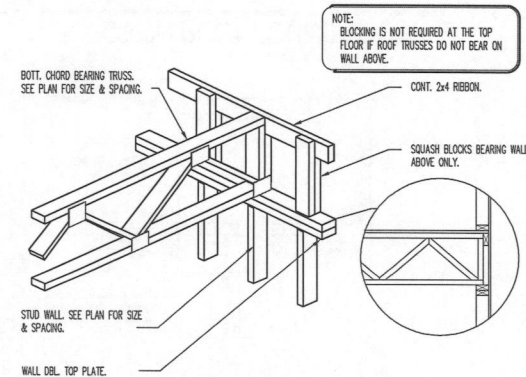
5
S-501



TYPICAL OVERSPACED TRUSS

SCALE: 3/4" = 1'-0"

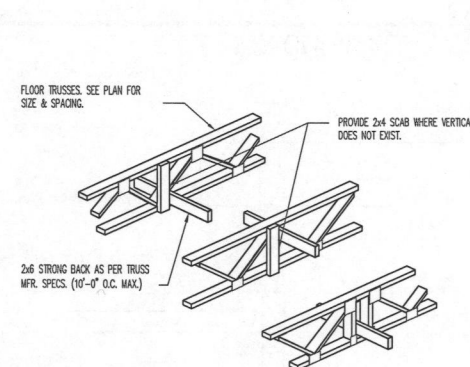
6
S-501



TYPICAL TRUSS END BEARING

SCALE: N.T.S.

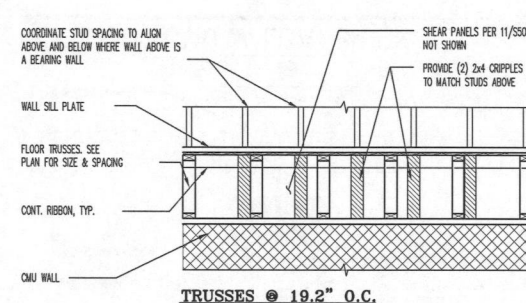
1
S-501



TYPICAL TRUSS STRONGBACK

SCALE: N.T.S.

2
S-501



TYP. WALL FRAMING SCHEMATIC

SCALE: N.T.S.

3
S-501

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A SOLELY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE #2731, EXPIRATION DATE 04/01/2025

Nader Elhaji
2025.05.12
2025.05.12-04'00"

STATE OF MARYLAND
PROFESSIONAL ENGINEER
#2731

Date: 05/12/2025
Drawn: R.A.A.
Designed: R.A.A.
Checked: R.A.A.

Project No.: 25-001
Scale: SEE PLANS
Drawing No.: S-501

FRAMING DETAILS

Project: KATHURIA GARAGE AT 15050 FREDRICK ROAD
WOODBINE, MD 21717

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