

BLUEBIRD MEADOWS TRUSS DETAILS

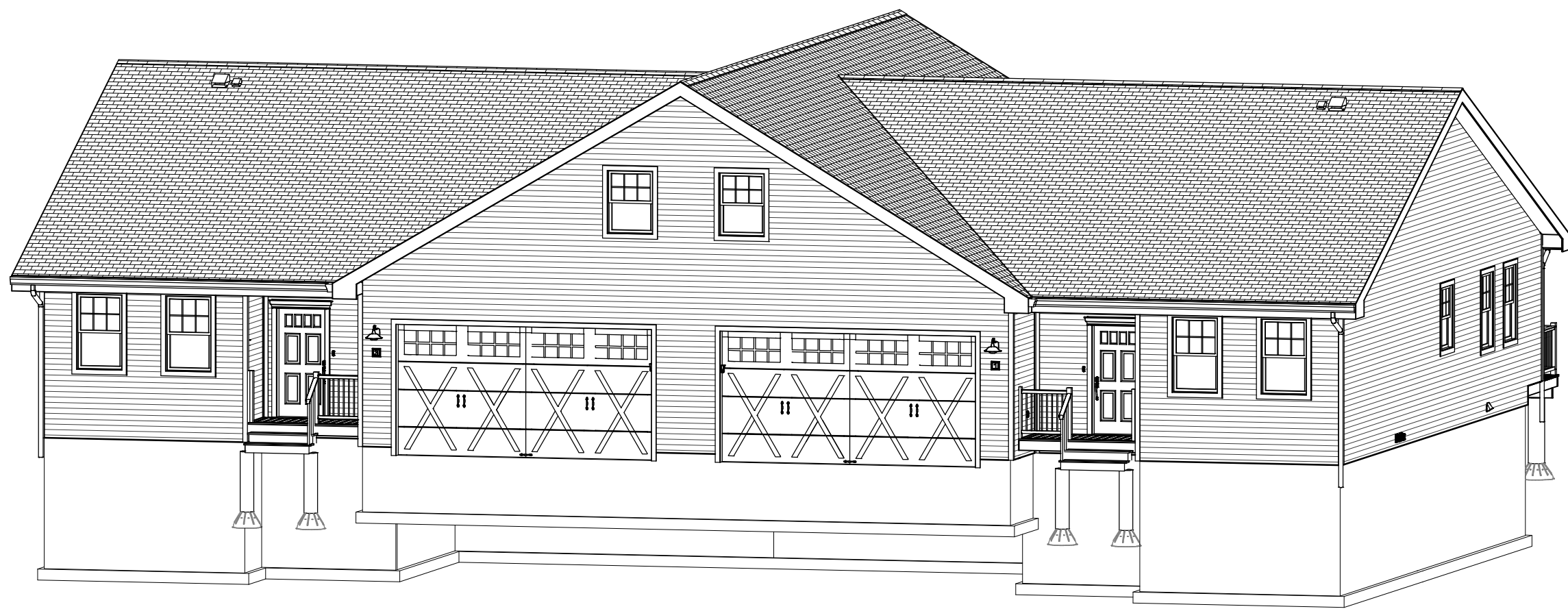


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REVISION TABLE	
NUMBER	DATE

TITLE:

GENERAL
TITLE PAGE

PROJECT DESCRIPTION:

Bluebird Meadows - Building #1
135 Main Street South
Bethlehem, CT 06751

DRAWINGS PROVIDED BY:

Millspaugh Properties

101 Main Street South
Bethlehem, CT 06751
(203) 266-5252

DATE:

5/12/2021

SCALE:

N/A

SHEET:

1.G101



REVISION TABLE	
NUMBER	DATE

TITLE: **ARCHITECTURAL
3D DOLL HOUSE -
ROOF, BUILDING 1**

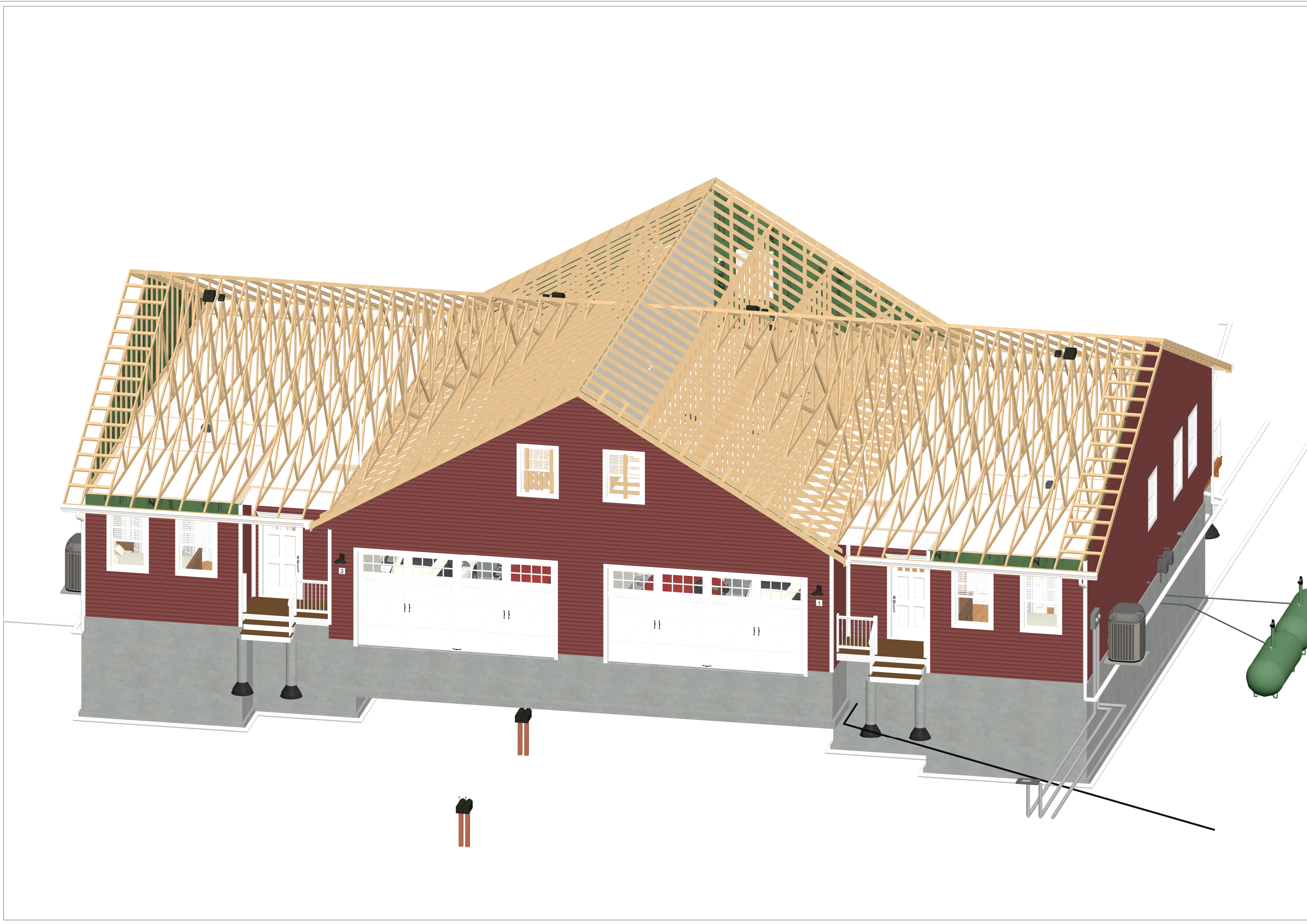
PROJECT DESCRIPTION:
Bluebird Meadows - Building #1
135 Main Street South
Bethlehem, CT 06151

DRAWINGS PROVIDED BY:
Millspaugh Properties
101 Main Street South
Bethlehem, CT 06151
(203) 266-5252

DATE:
5/12/2021

SCALE:
N/A

SHEET:
1.A907



REVISION TABLE	
NUMBER	DATE

TITLE: **ARCHITECTURAL
3D DOLL HOUSE -
ROOF, BUILDING 2**

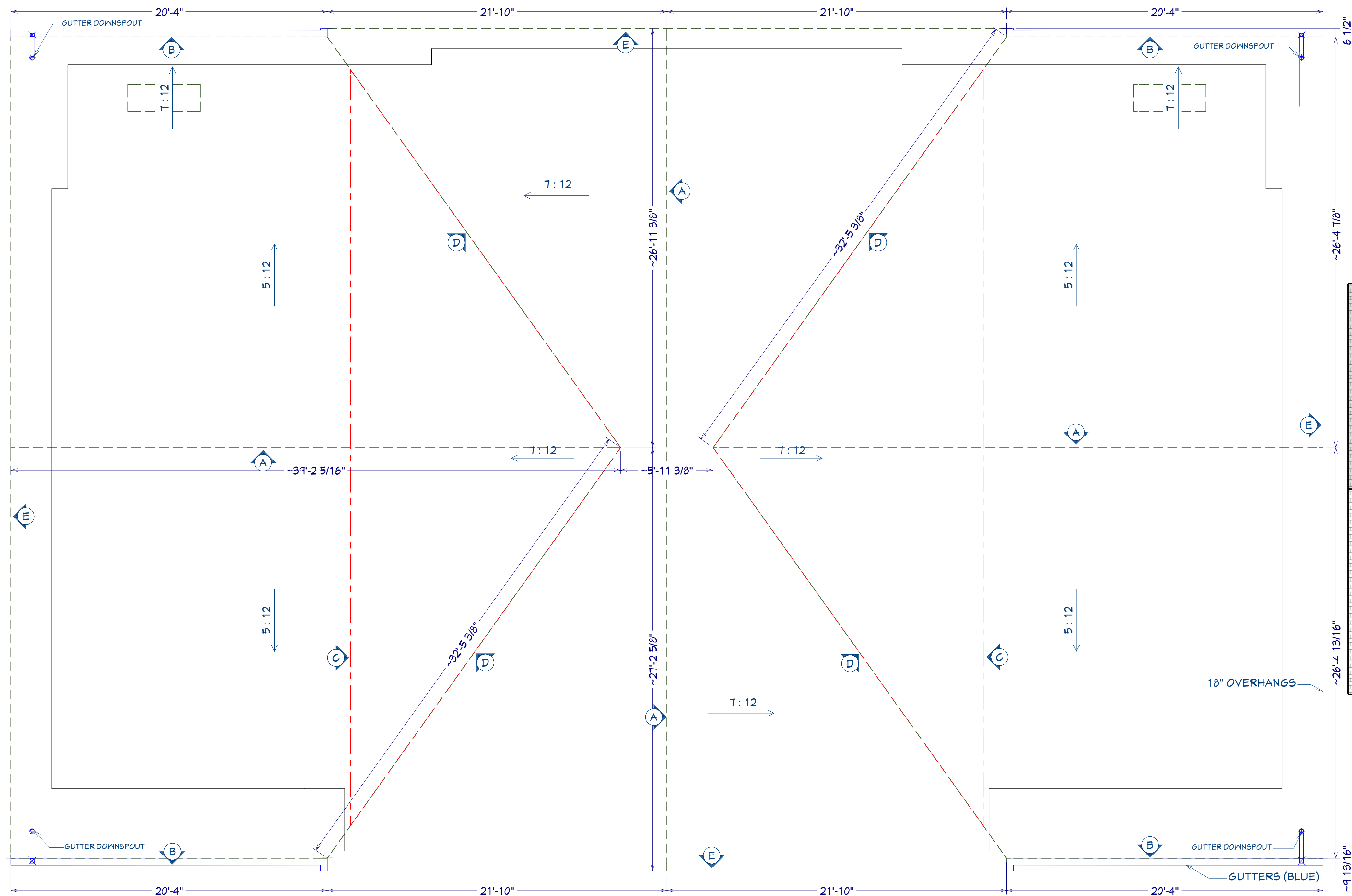
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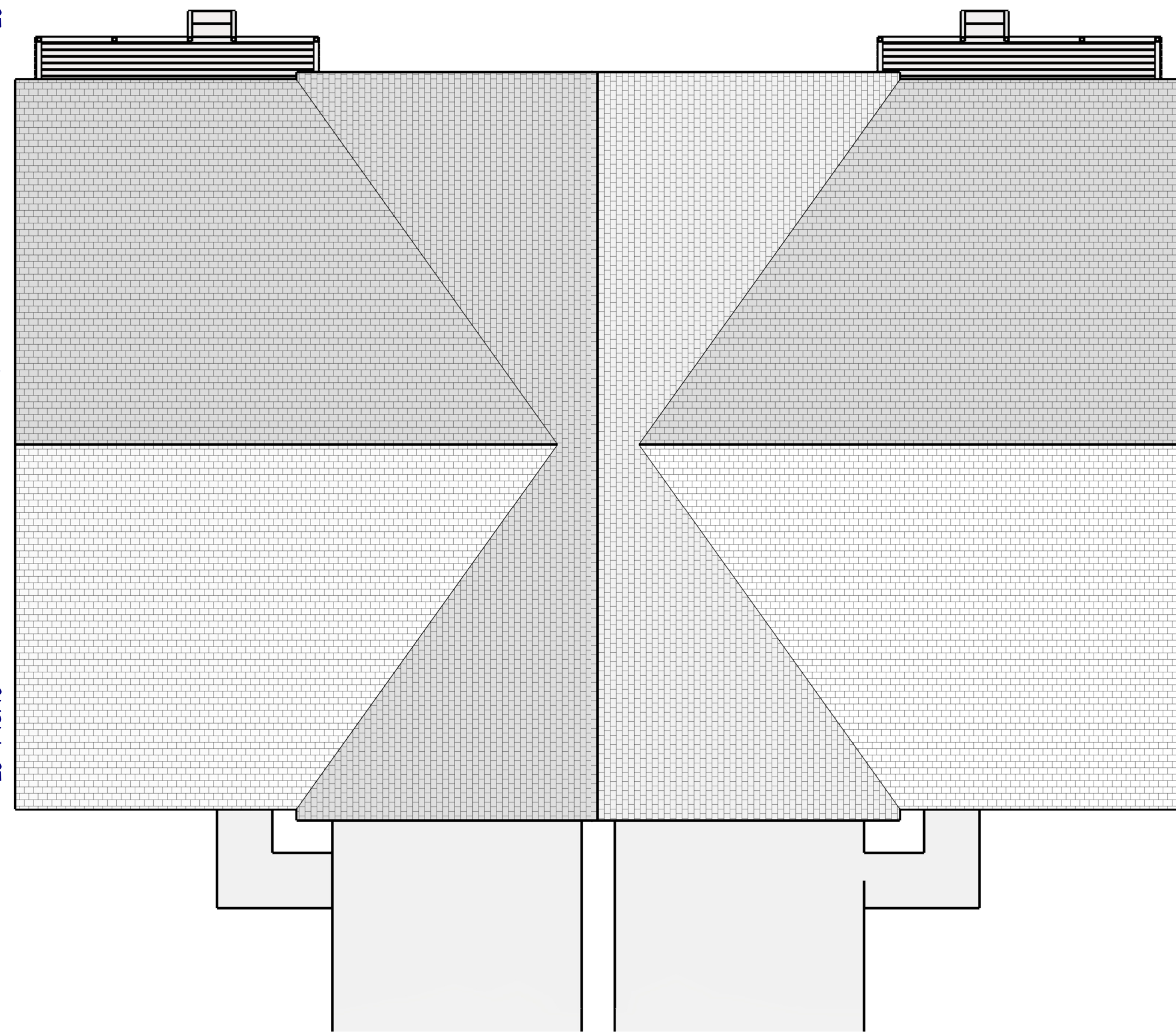
SCALE:
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1.A908

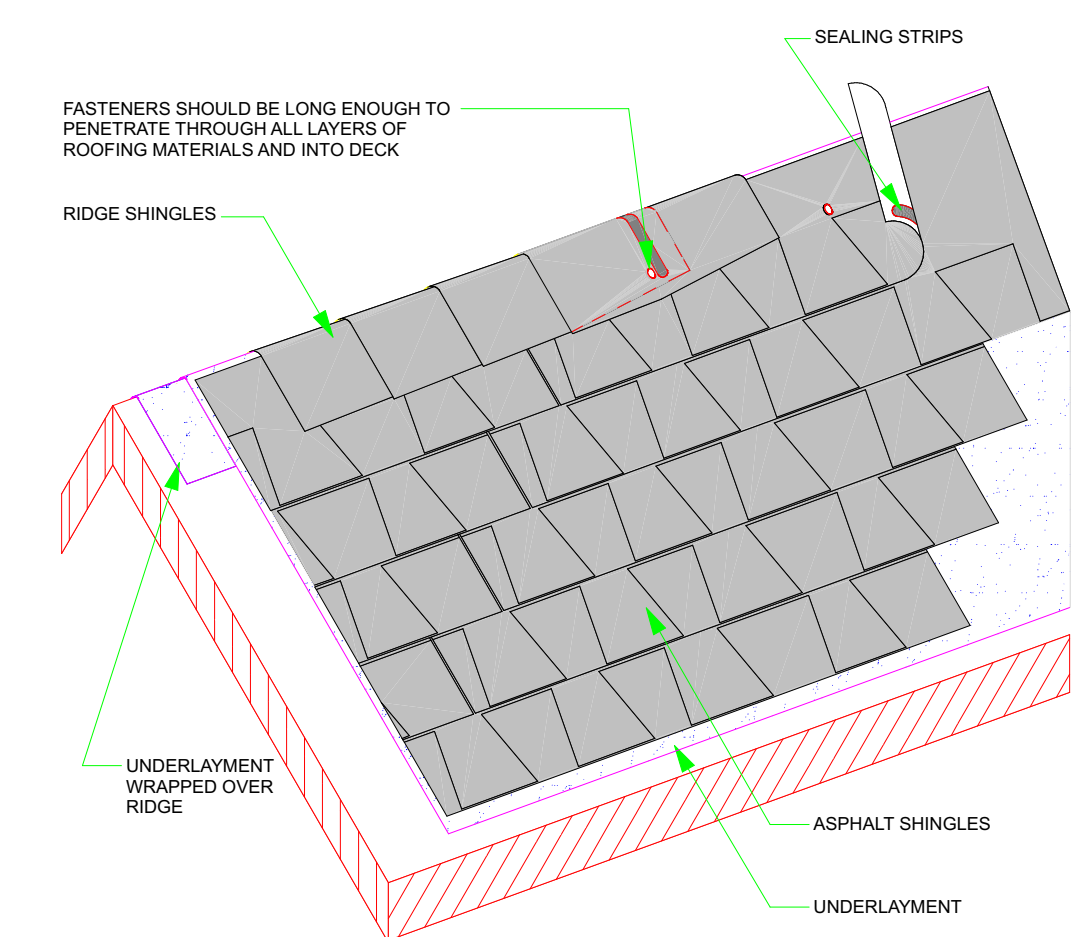


- ROOFING NOTES**
- VENTED ATTIC.
 - TRUSSES SPECIFIED BY MANUFACTURER.
 - TEMPORARY BRACING REQUIRED FOR TRUSSES.
 - ALL OVERHANGS 18".
 - ROOFING TO BE ASPHALT OVER ZIP SYSTEM 1/2" SHEATHING.
 - ICE FLASHING OVER SHEATHING AT EAVES.
 - METAL DRIP EDGE AT ALL EXPOSED ROOF DECKING.
 - BITUMINOUS MEMBRANE AT ALL EAVES, VALLEYS & PENETRATIONS (NOT REQ. IF <20" RAINFALL).
 - STEP FLASHING AT ALL ROOF/WALL INTERSECTIONS & TERMINATED WITH "KICKOUT" FLASHING.
 - INSTALLED SYSTEM FOR DIVERTING ROOF WATER FROM HOUSE. (E.G. GUTTERS).
 - REDUCE ICE DAMS: NO NON-AIRTIGHT RECESSED LIGHT FIXTURES IN INSULATED CEILINGS.
 - PROVIDE INSULATION BAFFLES AT EAVE VENTS BETWEEN RAFTERS.
 - ALL EXPOSED INSULATION IS TO HAVE A FLAME SPREAD RATING OF LESS THEN 25 AND A SMOKE DENSITY RATING OF LESS THAN 450.

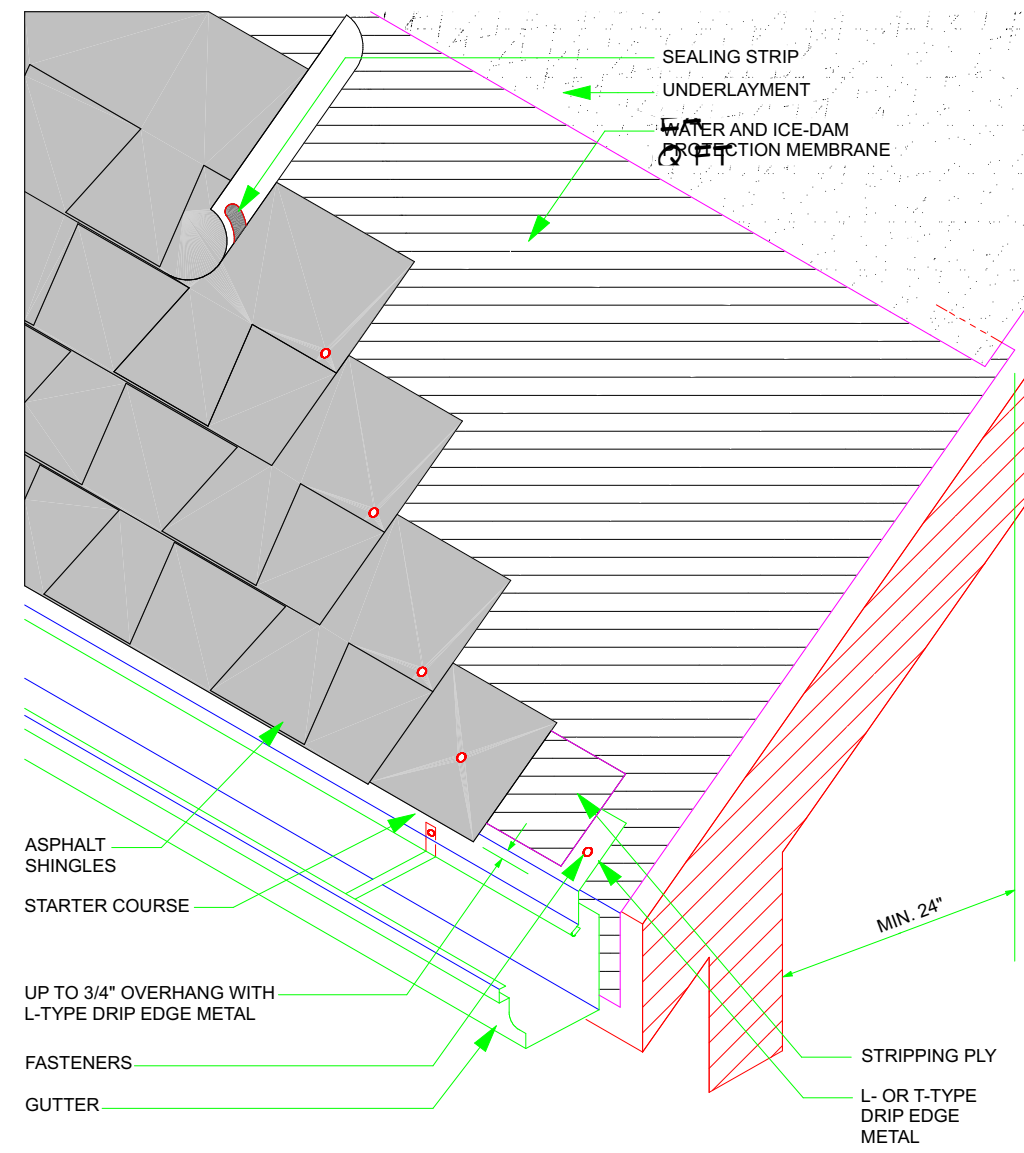
ROTATE 12.0° N
Building 1
ROTATE 12.0° N
Building 2



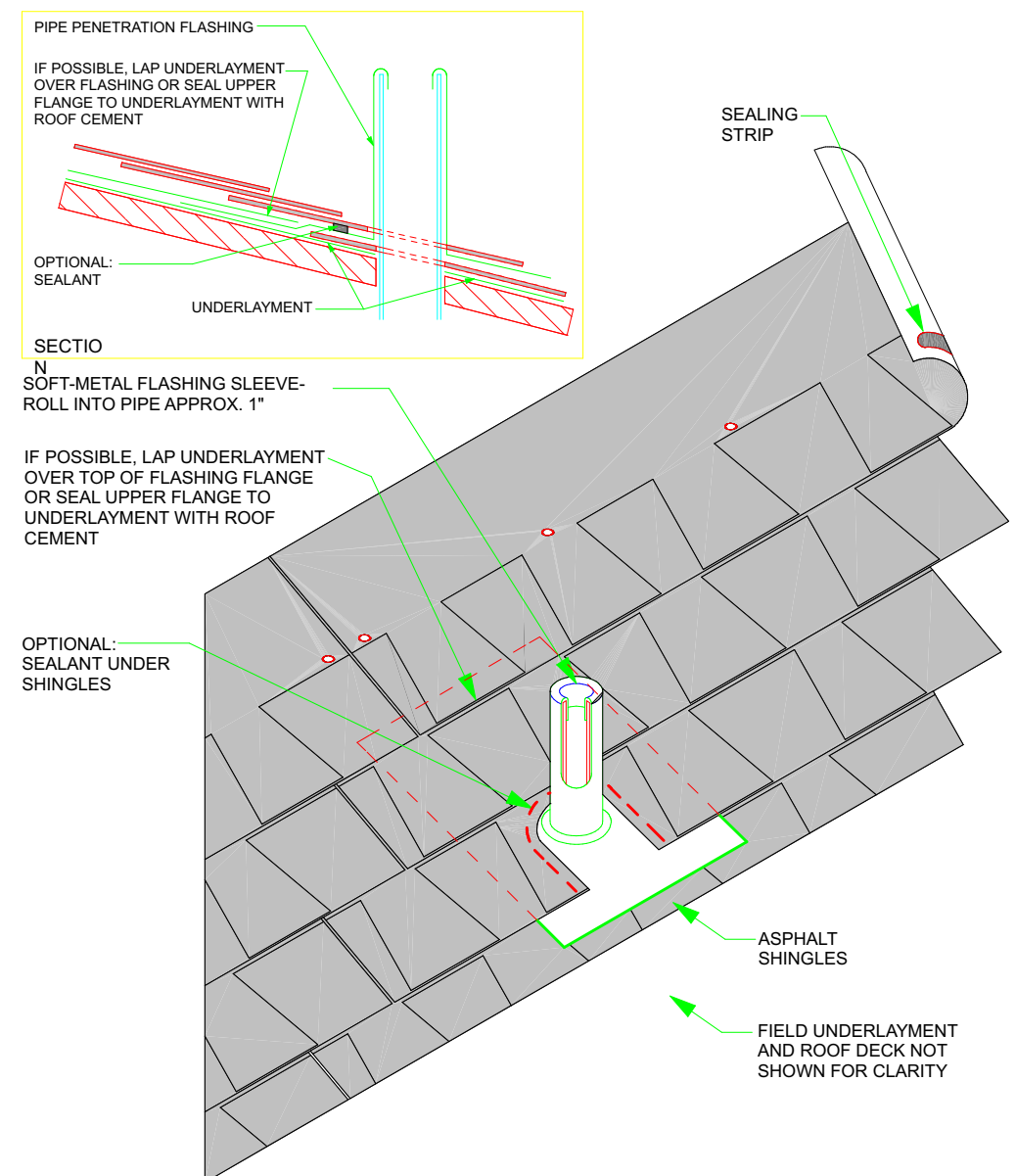
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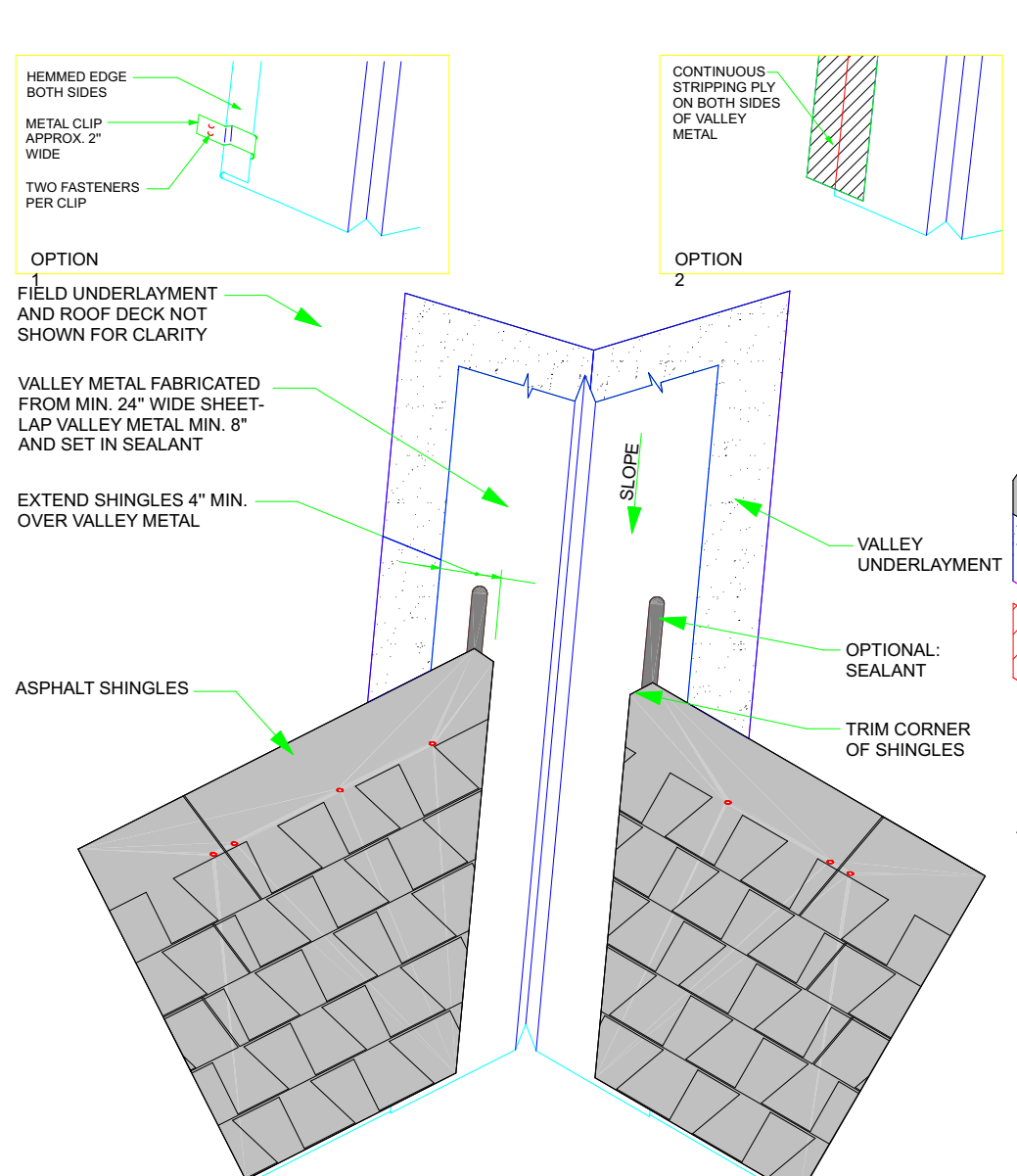
- NOTES
1. MOST MANUFACTURERS SUPPLY SPECIAL RIDGE SHINGLES. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 2. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.



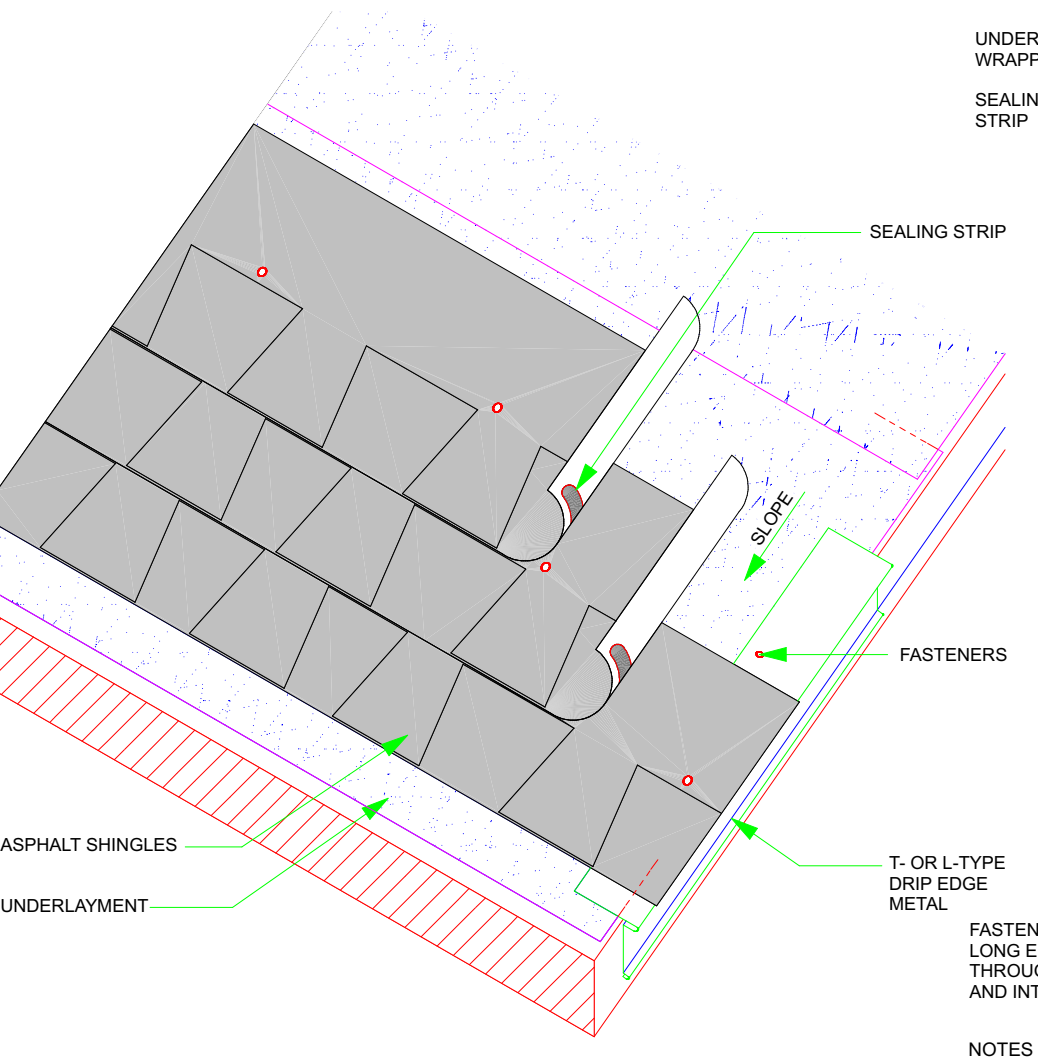
- NOTES
1. THIS DETAIL SHOWS ONE TYPE OF GUTTER SUPPORT. GUTTER SECUREMENT AND SUPPORT OPTIONS VARY. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.



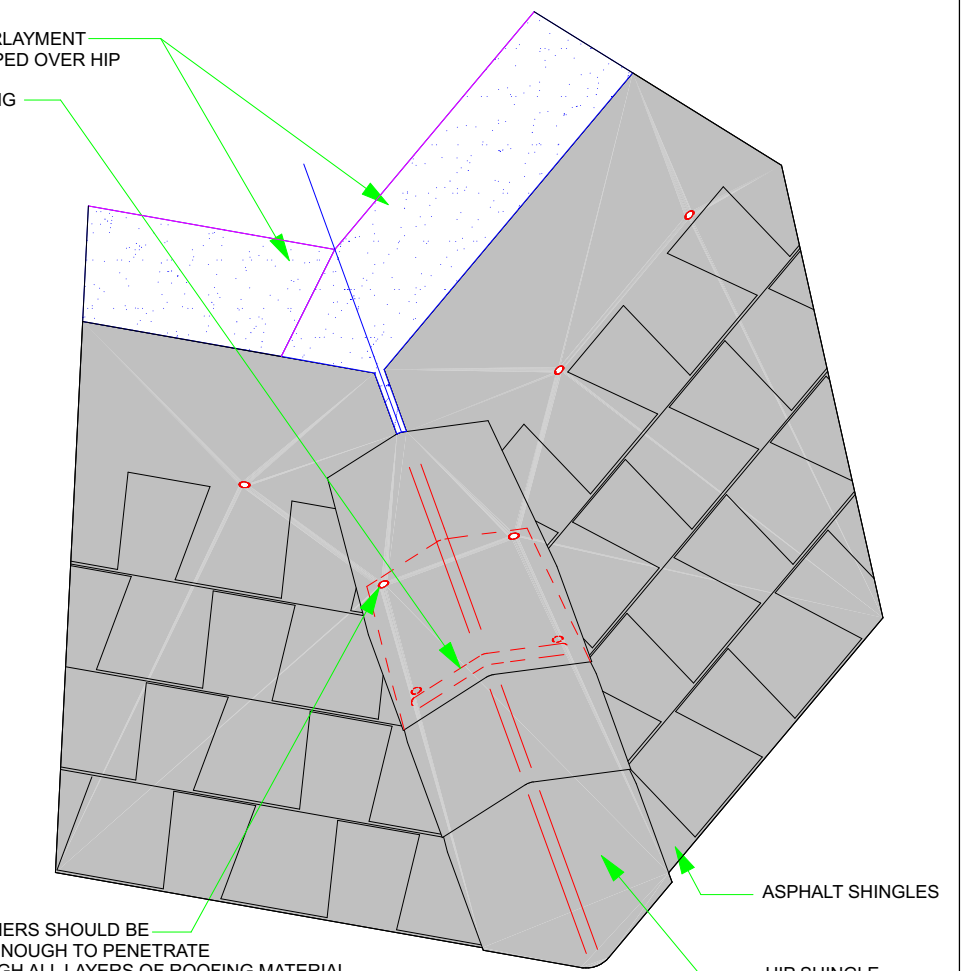
- NOTE
1. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.



- NOTES
1. VALLEY UNDERLAYMENT TYPE AND NECESSITY MAY VARY DEPENDING ON CLIMATIC CONDITIONS.
 2. FOR CLIPPED VALLEY DETAIL (OPTION 1) HEAVIER WEIGHT SHINGLES MUST BE USED.
 3. VALLEY METAL WITHOUT RIB OR SPLASH DIVERTER MAY BE ACCEPTABLE.
 4. SEALANT IS NOT REQUIRED FOR OPTIONS 1 AND 2.
 5. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.



- NOTE
1. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.



- NOTES
1. MOST MANUFACTURERS SUPPLY SPECIAL HIP SHINGLES. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 2. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

A RIDGE (NRCA ASPH-6) **B EAVE (NRCA ASPH-4)** **C VENT PIPES (NRCA ASPH-15)** **D VALLEY (NRCA ASPH-9)** **E RAKE (NRCA ASPH-5)** **F HIP (NRCA ASPH-8)**



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STRUCTURAL
ROOF

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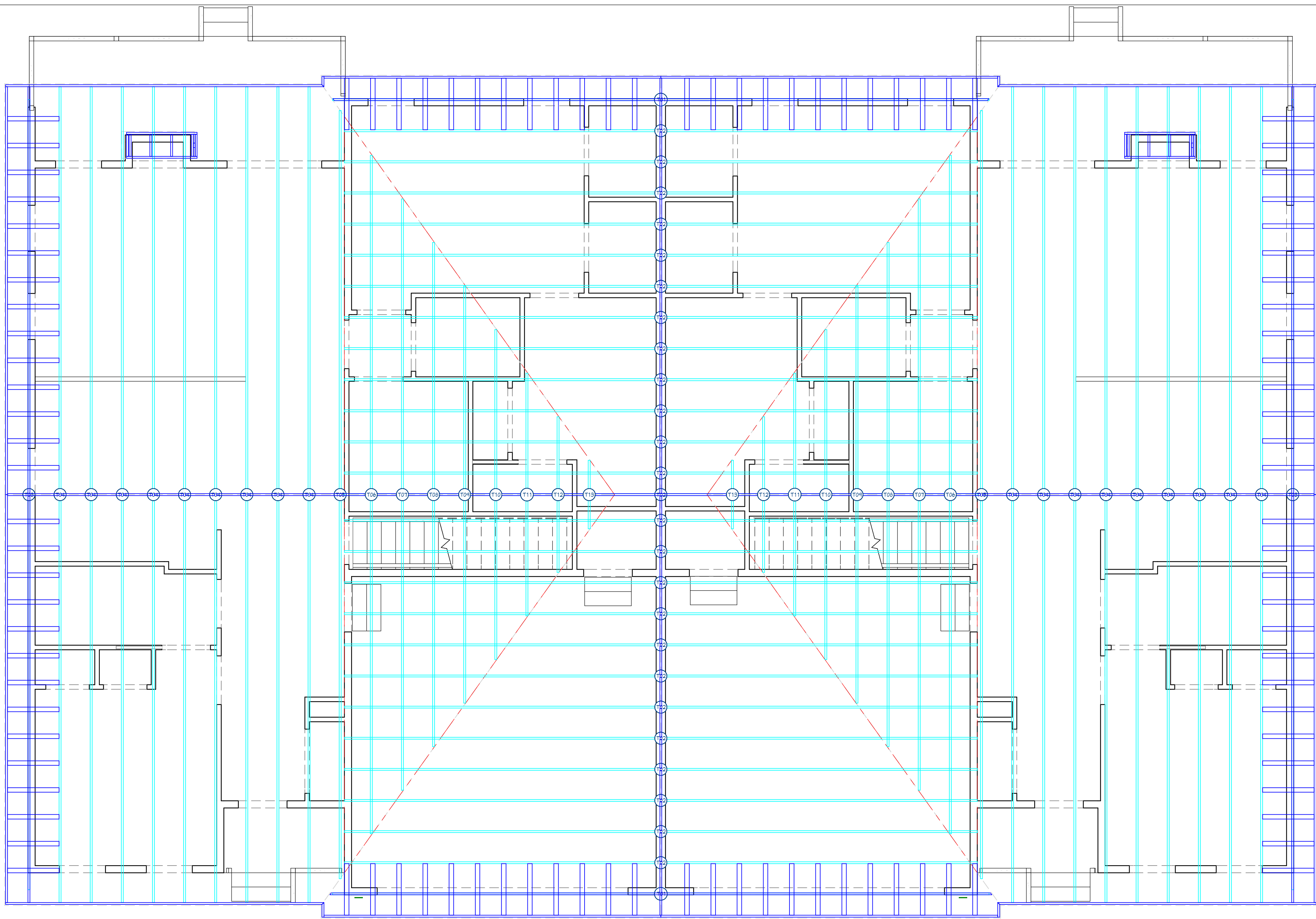
5/12/2021

SCALE:

1/4" = 1'

SHEET:

1.5104



ROTATE 12.0° N
ROTATE 12.0° N
Building 1 Building 2

- FRAMING NOTES**
- FINISHED CEILING ATTACHED TO UNDERSIDE OF "ATTIC" TRUSSES
 - PROVIDE DOUBLE JOISTS UNDER ALL WALLS RUNNING PARALLEL TO JOISTS.
 - PROVIDE POSITIVE CONNECTIONS AT EACH END OF ALL POSTS AND COLUMNS TO RESIST LATERAL DISPLACEMENT.
 - SUBFLOOR SHEATHING SHALL BE 3/4" OSB OR PLYWOOD.
 - DEFLECTION DESIGNED FOR L/480 LIVE AND L/360 TOTAL LOAD.

- ROOF TRUSS NOTES**
- THE TRUSS MANUFACTURER SHALL SUBMIT CALCULATIONS, SHOP DRAWINGS, DETAILS, BRIDGING AND ERECTION BRACING SIGNED BY A REGISTERED ENGINEER TO THE BUILDING DEPARTMENT AND STRUCTURAL ENGINEER, FOR THEIR REVIEW PRIOR TO FABRICATION.
 - TRUSS DRAWINGS ARE FOR ILLUSTRATION ONLY. ALL TRUSSES SHALL BE INSTALLED & BRACED TO MANUFACTURER'S SPECIFICATIONS.
 - ALL TRUSSES SHALL CARRY MANUFACTURERS STAMP.
 - ALL TRUSSES WILL NOT BE FIELD ALTERED WITHOUT PRIOR BUILDING DEPT. APPROVAL OF ENGINEERING CALCULATIONS.
 - ALL TRUSSES SHALL HAVE DESIGN DETAILS & DRAWINGS ON SITE FOR FRAMING INSPECTION.
 - ALL CONNECTIONS OF RAFTERS, JACK OR HIP TRUSSES TO MAIN GIRDER TO BE PROVIDED BY TRUSS MANUFACTURER.
 - THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE TRUSS MANUFACTURER, FRAMING, ELECTRICAL, PLUMBING AND MECHANICAL CONTRACTORS AT FIRE PROTECTED AREAS TO MAINTAIN REQUIRED FIRE PROTECTION WITHOUT PENETRATIONS UNLESS ALLOWED BY CODE.

FRAMING SCHEDULE - TRUSSES (T)								
NUMBER	DESCRIPTION	QTY	LENGTH	HEIGHT	BOTTOM	TOP	REDUCED GABLE	KINGPOST
T01	7:12 END TRUSS	2	506 1/4"	147 5/8"	109 1/8"	256 3/4"	Y	Y
T02	7:12 ROOF TRUSS	25	488"	149 3/8"	109 1/8"	258 1/2"	Y	N
T03	5:12 END TRUSS	2	609 3/8"	126 15/16"	109 1/8"	236 1/16"	N	N
T04	5:12 ROOF TRUSS	18	629 3/16"	128 9/16"	109 1/8"	237 11/16"	N	N
T05	5:12 ROOF TRUSS	2	592 3/8"	128 9/16"	109 1/8"	237 11/16"	N	N
T06	5:12 ROOF TRUSS	2	523 1/8"	109"	128 11/16"	237 11/16"	N	N
T07	5:12 ROOF TRUSS	2	455 15/16"	95"	142 11/16"	237 11/16"	N	N
T08	5:12 ROOF TRUSS	2	388 3/4"	81"	156 11/16"	237 11/16"	N	N
T09	5:12 ROOF TRUSS	2	321 9/16"	67"	170 11/16"	237 11/16"	N	N
T10	5:12 ROOF TRUSS	2	254 3/8"	53"	184 11/16"	237 11/16"	N	N
T11	5:12 ROOF TRUSS	2	187 1/8"	39"	198 11/16"	237 11/16"	N	N
T12	5:12 ROOF TRUSS	2	119 15/16"	25"	212 11/16"	237 11/16"	N	N
T13	5:12 ROOF TRUSS	2	52 3/4"	11"	226 11/16"	237 11/16"	N	N

IRC TABLE R602.3(1) FASTENING SCHEDULE

JOIST TO SILL, PLATE OR GIRDER	TOE NAIL (3)-8D COM
RAFTER/TRUSS TO PLATE	TOE NAIL (3)-10D COM
TOP/BOTTOM PLATE TO STUD	END NAIL (2)-16D COM
STUD TO TOP/BOTTOM	TOE NAIL (3)-16D BOX
TOP PLATE TO TOP PLATE	FACE NAIL 16D COM @ 16" OC
STUD TO STUD, NOT BRACE OR CORNER	FACE NAIL 16D COM @ 24" OC
STUD TO STUD, BRACE OR CORNER FACE	NAIL 16D COM @ 16" OC
BUILT-UP HEADER W/ 1/2" SPACER	FACE NAIL EDGES 16D COM @ 16" OC
BUILT-UP GIRDER/BREAM, 2" LUMBER	FACE NAIL EDGES 10D BOX @ 24" OC & (3) @ ENDS
CONTINUOUS HEADER TO STUD	TOE NAIL (4)-8D COM
BOTTOM PLATE TO JOIST, NOT BRACE	FACE NAIL 16D COM @ 16" OC
BOTTOM PLATE TO JOIST, BRACE	FACE NAIL (2)-16D COM @ 16" OC
RIM/BAND JOIST TO SILL OR TOP PLATE	TOE NAIL 8D COM @ 6" OC
RIM/BAND JOIST TO JOIST	END NAIL (3)-16D COM
JOIST/RAFTER BLOCKING	TOE NAIL (3)-8D COM
CEILING JOISTS, LAPS OVER PARTITIONS	FACE NAIL (3)-16D COM
TOP PLATES, LAPS AND INTERSECTIONS	FACE NAIL (2)-16D COM
BRIDGING TO JOIST	TOE NAIL EACH END (2)-10D BOX
<= 1/2" WALL/FLOOR SHEATHING/SUBFLR	6D COM @ 6" OC EDGES / 12" OC INTERMEDIATE
<= 1/2" ROOF SHEATHING	8D COM @ 6" OC EDGES / 12" OC INTERMEDIATE
9/16"-1" ROOF/WALL/FLOOR SHEATHING	8D COM @ 6" OC EDGES / 12" OC INTERMEDIATE
1/2" GYPSUM SHEATHING	1 1/2" SCREW @ 7" OC EDGES & INTERMEDIATE
5/8" GYPSUM SHEATHING	1 5/8" SCREW @ 7" OC EDGES & INTERMEDIATE

8D BOX = 2 1/2" x 0.113"	8D COMMON = 2 1/2" x 0.131"
10D BOX = 3" x 0.128"	10D COMMON = 3" x 0.148"
16D BOX = 3 1/2" x 0.135"	16D COMMON = 3 1/2" x 0.162"

IRC R302.11 FIREBLOCKING

IN COMBUSTIBLE CONSTRUCTION, FIREBLOCKING SHALL BE PROVIDED TO CUT OFF BOTH VERTICAL AND HORIZONTAL CONCEALED DRAFT OPENINGS AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE.

FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAMED CONSTRUCTION IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
 - 1.1. VERTICALLY AT THE CEILING AND FLOOR LEVELS.
 - 1.2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET (3048 MM).
2. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7.
4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS.
5. FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19.
6. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING UNIT SEPARATION.

IRC R302.12 DRAFTSTOPPING

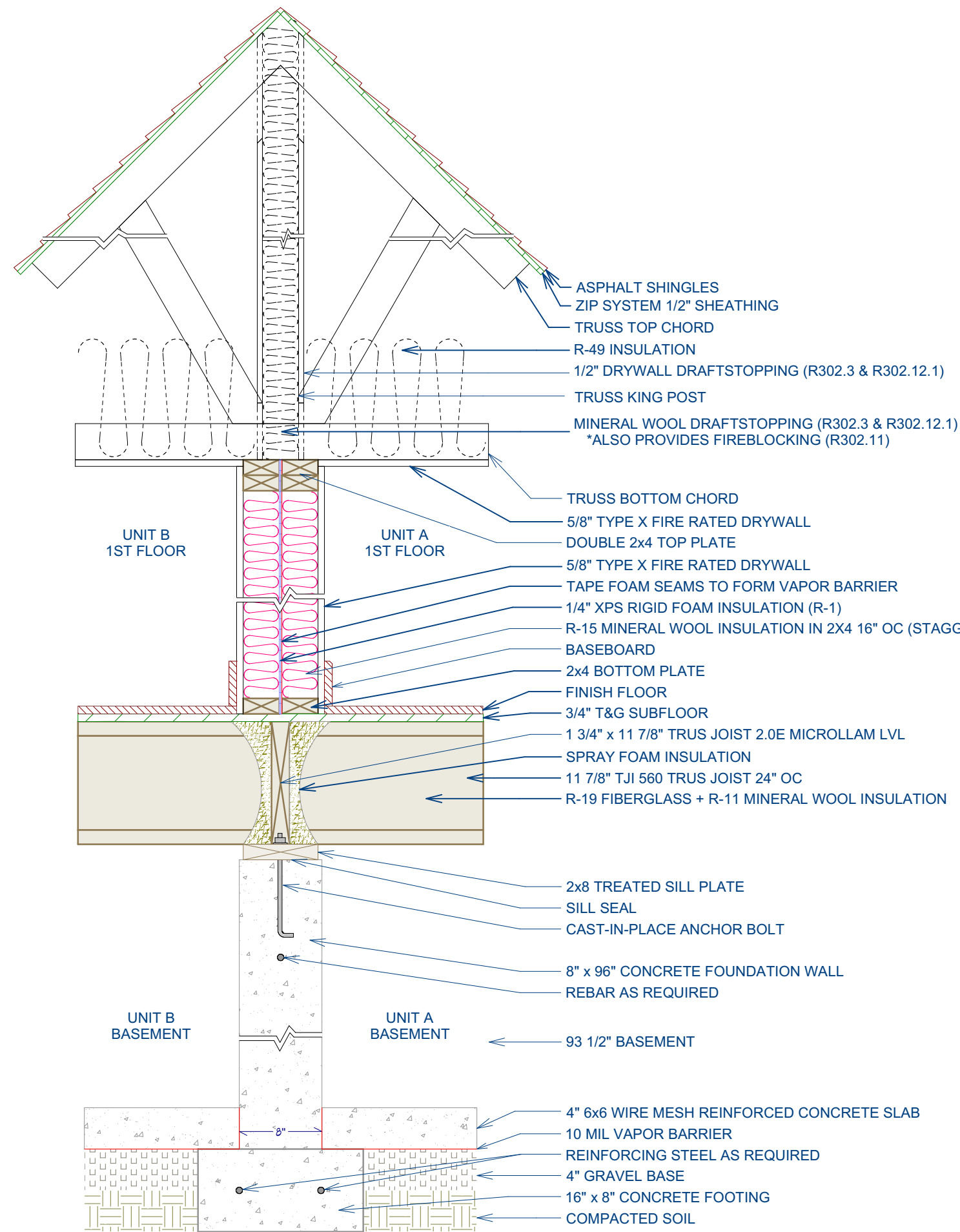
IN COMBUSTIBLE CONSTRUCTION WHERE THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1,000 SQUARE FEET (92.9 M2). DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CEILING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR-CEILING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES:

1. CEILING IS SUSPENDED UNDER THE FLOOR FRAMING.
2. FLOOR FRAMING IS CONSTRUCTED OF TRUSS-TYPE OPEN-WEB OR PERFORATED MEMBERS.

IECC R402.2.4 (IRC N1102.2.4) ACCESS HATCHES AND DOORS

ACCESS DOORS FROM CONDITIONED SPACES TO UNCONDITIONED SPACES SUCH AS ATTICS AND CRAWL SPACES SHALL BE WEATHERSTRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES. ACCESS SHALL BE PROVIDED TO ALL EQUIPMENT THAT PREVENTS DAMAGING OR COMPRESSING THE INSULATION. A WOOD-FRAMED OR EQUIVALENT BAFFLE OR RETAINER IS REQUIRED TO BE PROVIDED WHEN LOOSE-FILL INSULATION IS INSTALLED, THE PURPOSE OF WHICH IS TO PREVENT THE LOOSE-FILL INSULATION FROM SPILLING INTO THE LIVING SPACE WHEN THE ATTIC ACCESS IS OPENED, AND TO PROVIDE A PERMANENT MEANS OF MAINTAINING THE INSTALLED R-VALUE OF THE LOOSE-FILL INSULATION.

EXCEPTION: VERTICAL DOORS THAT PROVIDE ACCESS FROM CONDITIONED TO UNCONDITIONED SPACES SHALL BE PERMITTED TO MEET THE FENESTRATION REQUIREMENTS OF TABLE N1102.1.2 BASED ON THE APPLICABLE CLIMATE ZONE SPECIFIED IN SECTION N1101.7.



**1-HOUR FIRE RATED TWO-FAMILY COMMON WALL (R302.3)
VIEWED FROM MIDDLE OF BUILDING (STC 57-63 / R-31)**



REVISION TABLE	
NUMBER	DATE

**STRUCTURAL
ROOF FRAMING**

TITLE:

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101 Main Street South
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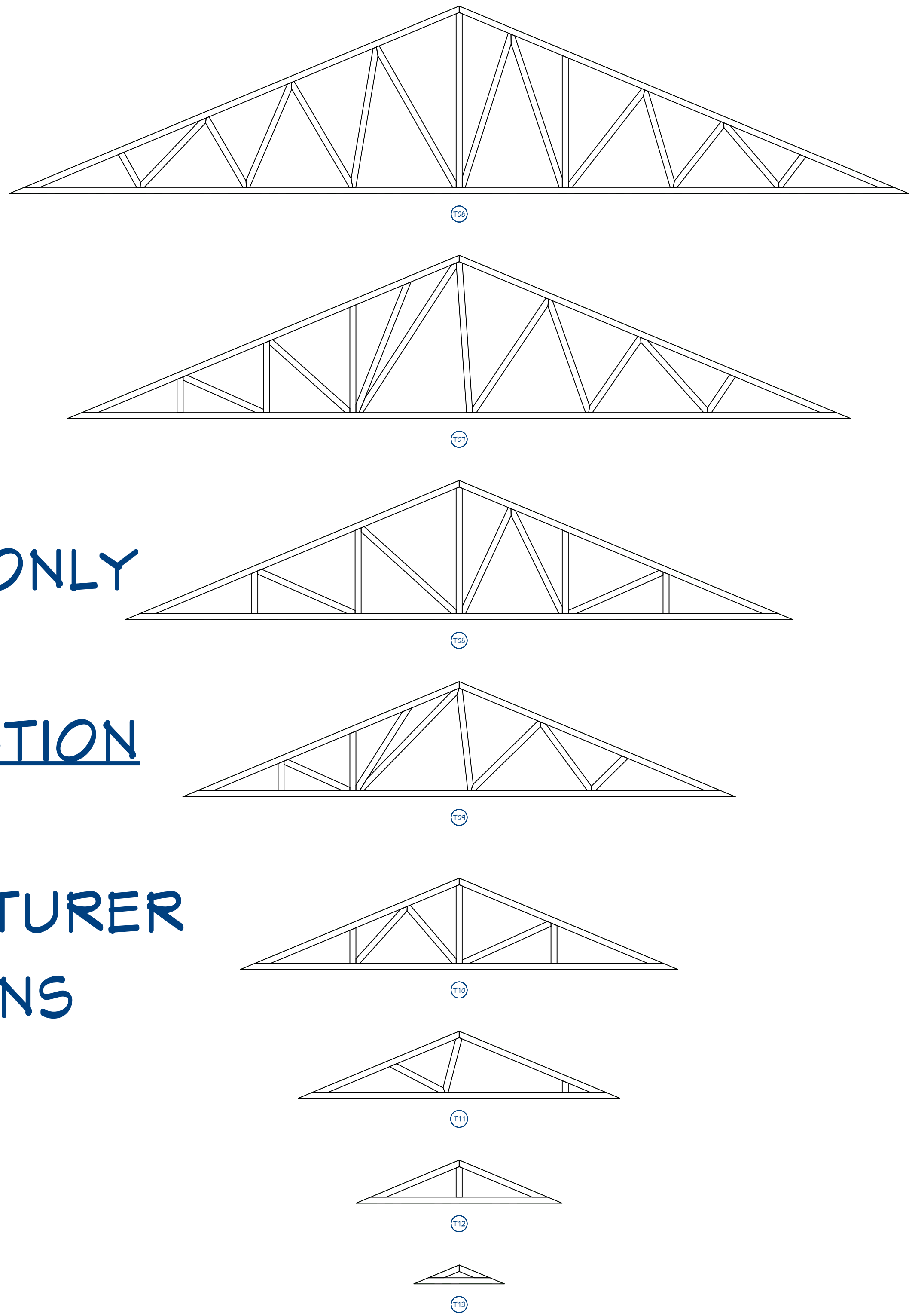
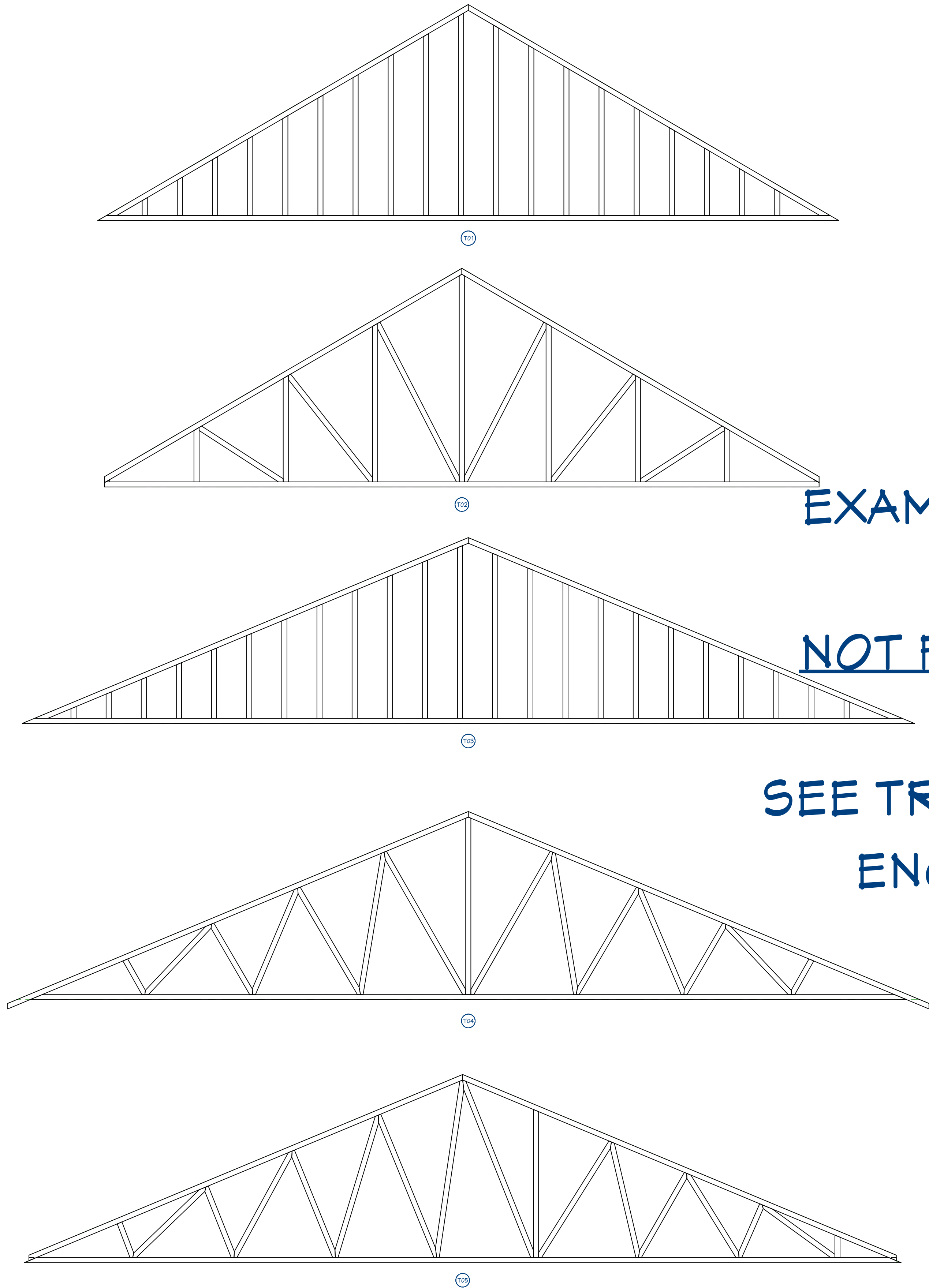
5/12/2021

SCALE:

1/4" = 1'

SHEET:

1.5105



EXAMPLE TRUSSES ONLY

NOT FOR CONSTRUCTION

SEE TRUSS MANUFACTURER
ENGINEERING PLANS

FRAMING SCHEDULE - RAFTER LOOKOUTS (L)				
NUMBER	NAME	QTY	NOMINAL	LENGTH
L01	RAFTER LOOKOUT	2	2X4	1 3/8"
L02	RAFTER LOOKOUT	104	2X4	39 3/4"

FRAMING SCHEDULE - SUBFASCIA (S)				
NUMBER	NAME	QTY	NOMINAL	LENGTH
S01	SUBFASCIA	2	2 X 6 1/8	10 9/16"
S02	SUBFASCIA	4	2 X 6 1/8	244 3/4"
S03	SUBFASCIA	2	2 X 6 1/8	7 1/4"
S04	SUBFASCIA	4	2X4	21 3/4"
S05	SUBFASCIA	2	2X4	54 3/8"
S06	SUBFASCIA	4	2X6	303 15/16"
S07	SUBFASCIA	4	2X6	343 1/8"

FRAMING SCHEDULE - RAFTERS (R)				
NUMBER	NAME	QTY	NOMINAL	LENGTH
R09	RAFTER	10	2X4	21 3/4"
R10	RAFTER	2	2X4	293 5/16"
R11	RAFTER	2	2X4	296"
R12	RAFTER	4	2X4	341 7/16"

FRAMING SCHEDULE - RAFTER BLOCKING (RB)				
NUMBER	NAME	QTY	NOMINAL	LENGTH
RB01	RAFTER BLOCKING	1	2X4	447 3/4"
RB02	RAFTER BLOCKING	1	2X4	558 1/4"
RB03	RAFTER BLOCKING	1	2X4	645 1/2"

FRAMING SCHEDULE - RAFTER RIDGE (RR)				
NUMBER	NAME	QTY	NOMINAL	LENGTH
RR01	RAFTER RIDGE	2	2X4	54 3/8"

FRAMING SCHEDULE - TRUSSES (T)								
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