

SIDE WALL FLASHING

VALLEY FLASHING

METAL ROOFING. DET.

SCALE: NONE

General Roofing NOTES:

DECK REQUIREMENTS:

METAL PANELS MUST BE FASTENED TO MIN. 1/2" CDX PLYWOOD.

SLOPE:

METAL PANELS SHALL BE USED ONLY ON ROOF SLOPES OF 3:12 OR GREATER TO INSURE PROPER DRAINAGE.

CAULKING:

MUST BE APPROVED BY THE MANUFACTURER, BUTYL SEALANT SUPPLIED IN TAPE OR GUN-GRADE FORM.

METAL PANEL:

METAL PANELS SHALL BE

MIN. 26 GAUGE AND COMPLY WITH ASTM A-792 AND D 7-98 EXPOSURE C AS ADOPTED IN SOUTH FLORIDA.

FASTENERS:

FASTENERS FOR METAL PANELS SHALL BE GALVANIZED WOOD FAST SCREW, MINIMUM OF #3 X 1 1/2" HEX HEAD.

ATTACHMENT:

METAL PANELS SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN 24" O.C. WHERE ROOF IS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF METAL PANELS SHALL CONFORM WITH ASTM E 330 OR FA 125.

BASE AND CAP FLASHINGS:

BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFG'S INSTALLATION INSTRUCTIONS.

1. RC-1 - RIDGE CAP

2. ED-1 - EAVE DRIP

3. EF-3 - EAVE FLASHING

4. BW-1 - SIDEWALL FLASHING

5. BW-1 - ENDWALL FLASHING

6. GR-4 - GABLE END OR RAKE BOARD FLASHING

7. TF-1 - TRANSITION FLASHING

8. PV-2 - PREFORMED VALLEY FLASHING

9. BUTYL TAPE

10. SEALANT TAPE

11. PIPEBOOT

UNDERLAYMENT APPLICATION:

FOR ROOF SLOPES FROM 3:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:

1. STARTING AT THE EAVE, A 18 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 18 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:

STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:

BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFG'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 71 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

VALLEYS:

VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ROOFING MATERIAL. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED:

1. OPEN VALLEYS LINED WITH METAL: THE VALLEY LINING SHALL BE AT LEAST 16" WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN FBC TABLE 1507.3.9.2.

2. OPEN VALLEYS: VALLEY LINING OF TWO PLYS OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.

3. CLOSED VALLEYS: VALLEY LINING SHALL BE ONE OF THE FOLLOWING:

1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.

2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.

3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE & COMPLYING WITH ASTM D 1910.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATEGORY: 2, EXPOSURE: "B"

BASED ON ANSI/ASCE 7-10, 2020 FBC 1609-A WIND VELOCITY: V_{ULT} = 130 MPH
V_{ASD} = 101 MPH

3. ROOF DESIGN LOADS:

SUPERIMPOSED DEAD LOADS: 20 PSF

SUPERIMPOSED LIVE LOADS: 20 PSF

4. FLOOR DESIGN LOADS:

SUPERIMPOSED DEAD LOADS: 25 PSF

SUPERIMPOSED LIVE LOADS: 40 PSF

RESIDENTIAL 60 PSF

BALCONIES 60 PSF

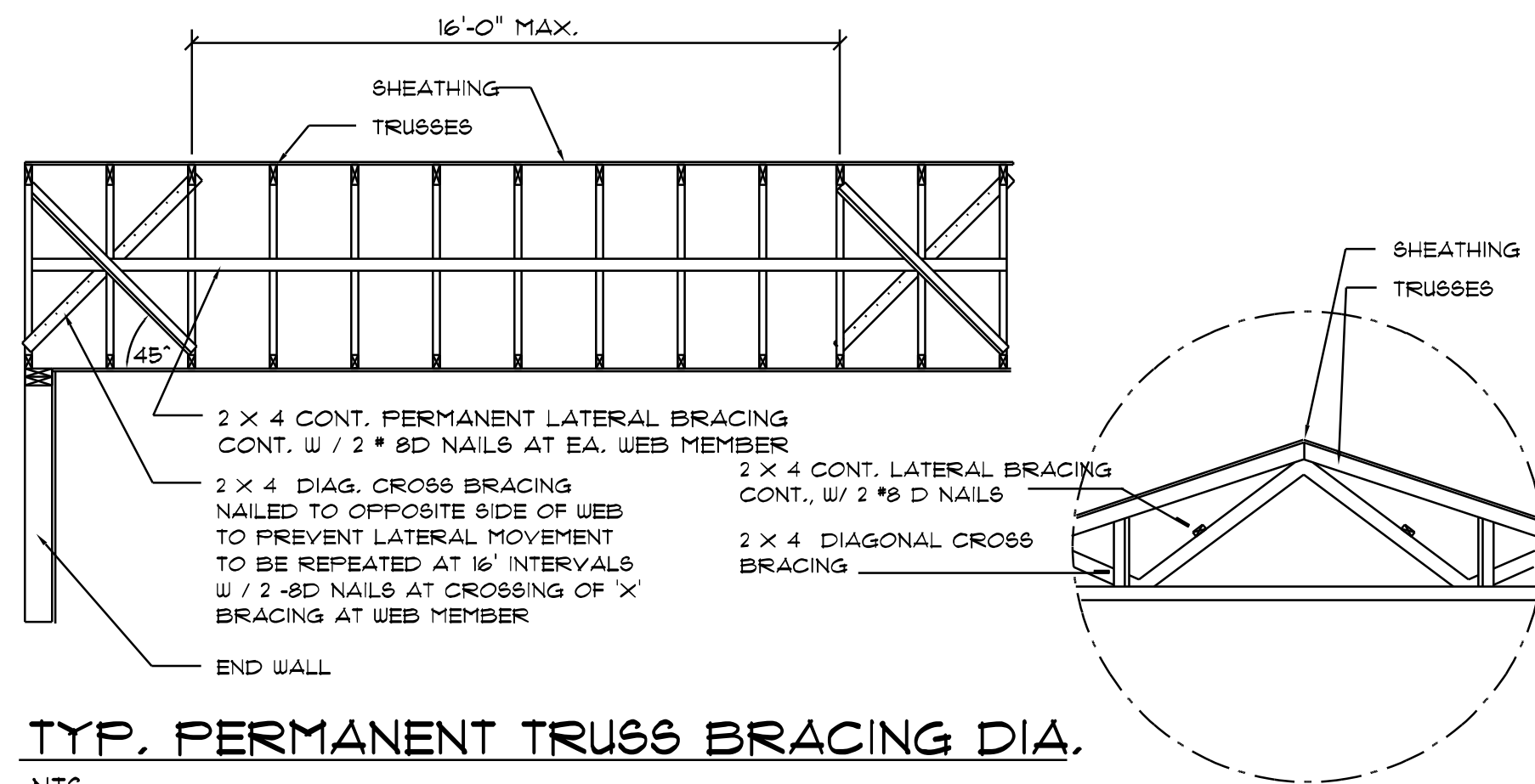
5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

WIND SPEED VULT 10 MPH		WIND SPEED VULT 120 MPH		WIND SPEED VULT 130 MPH		WIND SPEED VULT 140 MPH	
1		12.0 / -19.9	14.9 / -23.7	17.5 / -27.8	20.3 / -32.3	18.5 / -31.4	16.1 / -30.2
		11.4 / -19.4	13.6 / -23.0	16.0 / -27.0	18.5 / -31.4	18.5 / -31.4	16.1 / -30.2
		10.0 / -18.6	11.9 / -22.2	13.9 / -26.0	16.1 / -30.2	16.1 / -30.2	16.1 / -30.2
2		12.5 / -34.7	14.9 / -41.3	17.5 / -48.4	20.3 / -56.2	18.5 / -51.7	16.1 / -45.7
		11.4 / -31.9	13.6 / -38.0	16.0 / -44.6	18.5 / -51.7	18.5 / -51.7	16.1 / -45.7
		10.0 / -28.2	11.9 / -33.6	13.9 / -39.4	16.1 / -45.7	16.1 / -45.7	16.1 / -45.7
3		12.5 / -51.3	14.9 / -61.0	17.5 / -71.6	20.3 / -83.1	18.5 / -71.7	16.1 / -70.5
		11.4 / -47.9	13.6 / -57.1	16.0 / -67.0	18.5 / -71.7	18.5 / -71.7	16.1 / -70.5
		10.0 / -43.5	11.9 / -51.8	13.9 / -60.8	16.1 / -70.5	16.1 / -70.5	16.1 / -70.5
4		21.8 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2	33.7 / -36.7	31.6 / -34.6
		20.8 / -22.6	24.7 / -26.9	29.0 / -31.6	33.7 / -36.7	33.7 / -36.7	31.6 / -34.6
		19.5 / -21.3	23.2 / -25.4	27.2 / -29.8	31.6 / -34.6	31.6 / -34.6	31.6 / -34.6
5		21.8 / -29.1	25.9 / -34.7	30.4 / -40.7	35.3 / -47.2	33.7 / -44.0	31.6 / -39.8
		20.8 / -27.2	24.7 / -32.4	29.0 / -38.0	33.7 / -44.0	33.7 / -44.0	31.6 / -39.8
		19.5 / -24.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.8	31.6 / -39.8	31.6 / -39.8

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING			
BUILDING HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	1.00	1.21	1.41
20	1.00	1.29	1.55
25	1.00	1.35	1.61
30	1.00	1.40	1.66

FLORIDA BUILDING CODE	
Compliance Summary	
TYPE OF CONSTRUCTION	
Roof:	Hip Construction, Wood Trusses @ 24" OC
Walls:	8" CMU Block
Floor:	4" Thk. Concrete Slab w/ Fibermesh Concrete Additive
Foundation:	Continuous Footer/Stem Wall
ROOF DECKING	
Material:	1/2" CDX Plywood or 1/8" O.S.B.
Sheet Size:	48"x96" Sheets Perpendicular to Roof Framing
Fasteners:	8d Ring Shank Nails per schedule on sheet S.3
HURRICANE UPLIFT CONNECTORS	
Truss Anchors:	SEMCO HDPT2 @ Ea. Truss End (Typ. U.O.N.)
Porch Column Base Connector:	Simpson ABU44/ABU66 @ each column
Porch Column to Beam Connector:	Simpson EPC44/PC44 @ each column
FOOTINGS AND FOUNDATIONS	
Footings:	20"x10" Cont. w/ 2# Bars Cont. 4 #3 Transverse @ 24" O.C.
Stemwall:	8" C.M.U. w/ 1#5 Vertical Dowel @ 48" O.C.

5M-RIB METAL ROOFING PANELS ALTERNATE FASTENER SCHEDULE FOR VARIOUS WIND VELOCITIES MANUFACTURER'S RECOMMENDED FASTENER SCHEDULE FOR BUILDINGS W/ 35' MEAN ROOF HEIGHT, MIN. 3/12 PITCH BASED ON ASCE 7-98, EXPOSURE 'C'									
ROOF ZONE	FASTENER TYPE	FASTENER SIZE	PLACEMENT TO	100 - 110		120 - 130		140 - 150	
				O/C SPACING	TRIM	O/C SPACING	TRIM	O/C SPACING	TRIM
1	WD. SCREW	#3 X 1 1/2"	WOOD	36"	18"	24"	12"	24"	12"
	MTL. SCR.	#12 X 1" #14 X 7/8"	< 18 GA > 18 GA	36"	18"	24"	12"	24"	12"
2 & 3	WD. SCREW	#3 X 1 1/2"	WOOD	36"	18"	24"	12"	24"	8"
	MTL. SCR.	#12 X 1" #14 X 7/8"	< 18 GA > 18 GA	36"	18"	24"	12"	24"	8"



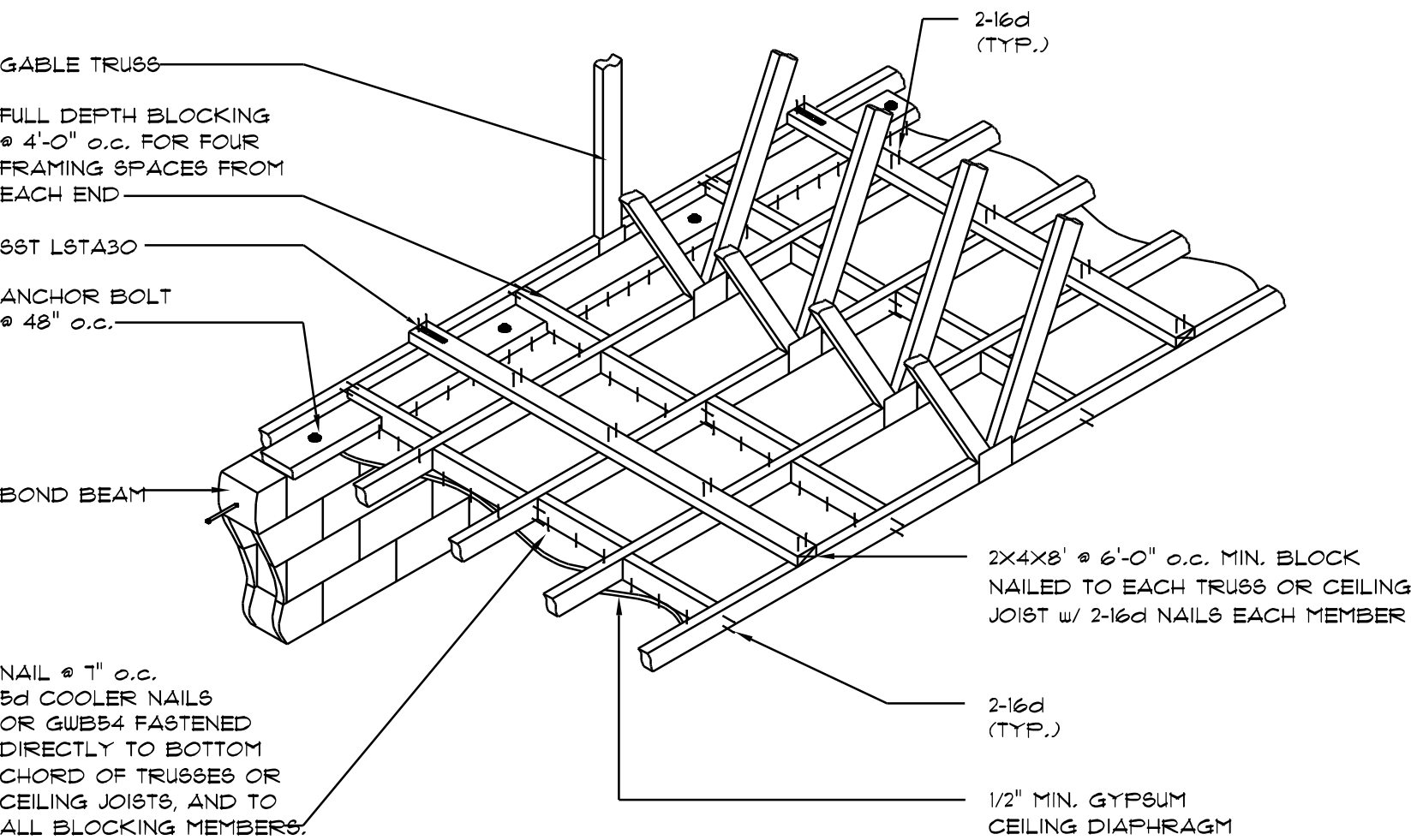
TYP. PERMANENT TRUSS BRACING DIA.

NTS

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

Truss Bracing DETAILS

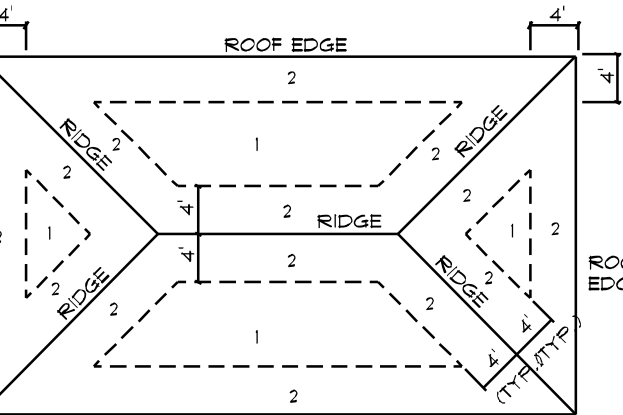
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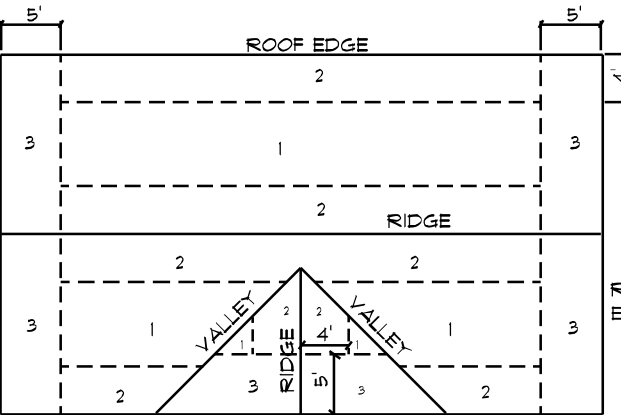
DIRECT TRUSS TO MASONRY CONNECTION ENDWALL FOR GYPSUM CEILING DIAPHRAGM

SCALE: NONE

ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	1/16" O.S.B. OR 15/32" CDX	8d COMMON OR 8d HOT DIPPED GALVANIZED BOX NAILS	6 in. o.c. EDGE 12 in. o.c. FIELD
2			6 in. o.c. EDGE 6 in. o.c. FIELD
3			4 in. o.c. @ GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGE 6 in. o.c. FIELD



ROOF SHEATHING NAILING ZONES
(HIP ROOF)



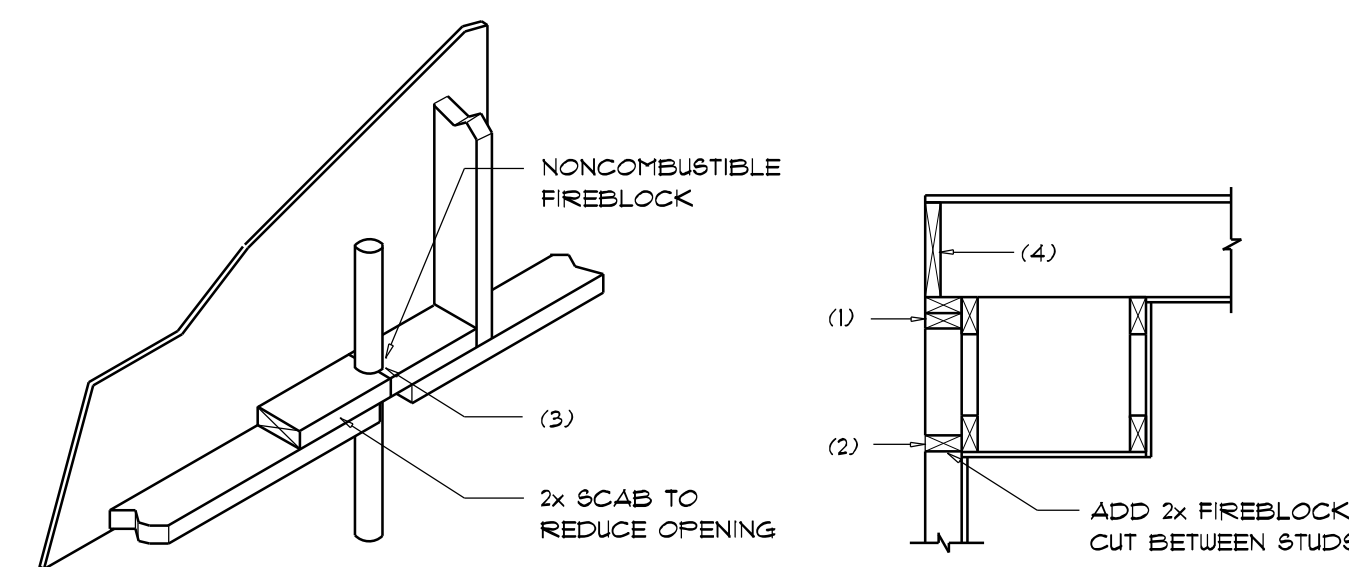
ROOF SHEATHING NAILING ZONES
(GABLE ROOF)

Roof Nail Pattern DET.

SCALE: NONE

Gable End DETAIL

SCALE: NONE



PENETRATIONS

SOFFIT/DROPPED CLG.

FIREBLOCKING NOTES:

FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
- AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
- AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYROFANEL MULTIFLEX SEALANT"
- AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

Fire Stopping DETAILS

SCALE: NONE

REVISIONS
JULY 1st, 2021

CUSTOM HOME FOR:

GOMEZ / CARTLET RESIDENCE

COLUMBIA COUNTY, FLORIDA

NICHOLAS PAUL GEISLER

ARCHITECT

1115 NW Brown Rd.
Lake City, FL 32025

SHEET NUMBER

S.3

OF 4 SHEETS

Digitally signed by: **N. P. GEISLER**
DN: CN = N. P. GEISLER C = US
O = AR0007005 OU = ARCHITECT
Date: 2021.07.06 17:53:18 -05'00'

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