



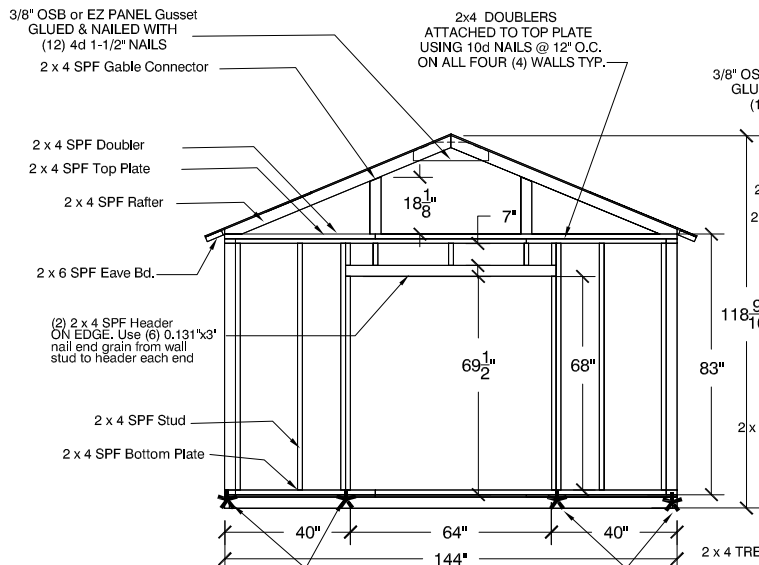
**NTA Engineering, P.C., 305 N Oakland Ave
Nappanee, Indiana 46550
Engineering COA C-4764**

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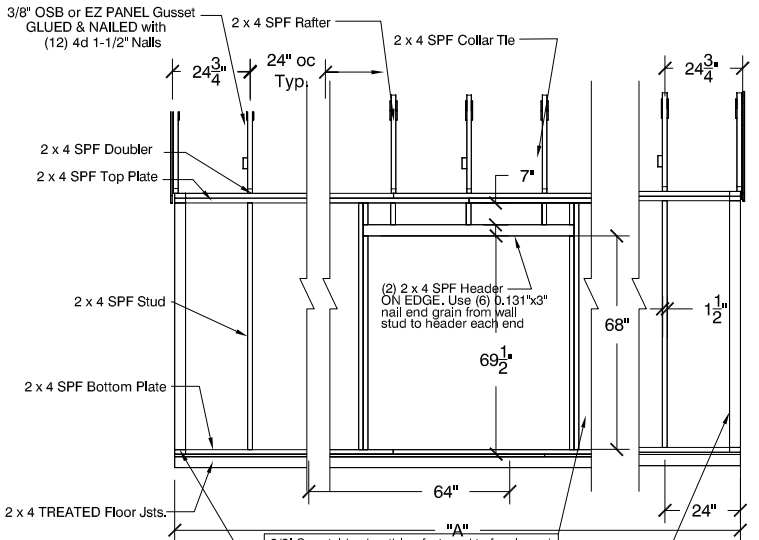
						DESIGN CRITERIA: ASCE 7-16										12'-0" HANOVER/LANCASTER GABLE STYLE ELEVATIONS	
Depth Dim. "A "	12'-0" Base	16'-0"	18'-0"	20'-0"	24'-0"	Wind Speed (Vult)	150 mph	Floor Live Load (psf)	50								
						Wind Speed (Vasd)	117 mph	Floor Dead Load (psf)	10								
Gable Style 12'-0" wide by:						Wind Exposure	C	Roof Live Load (psf)	23.1								
						Seismic Design Category	C	Roof Dead Load (psf)	10	Ground Snow Load (psf)	30						



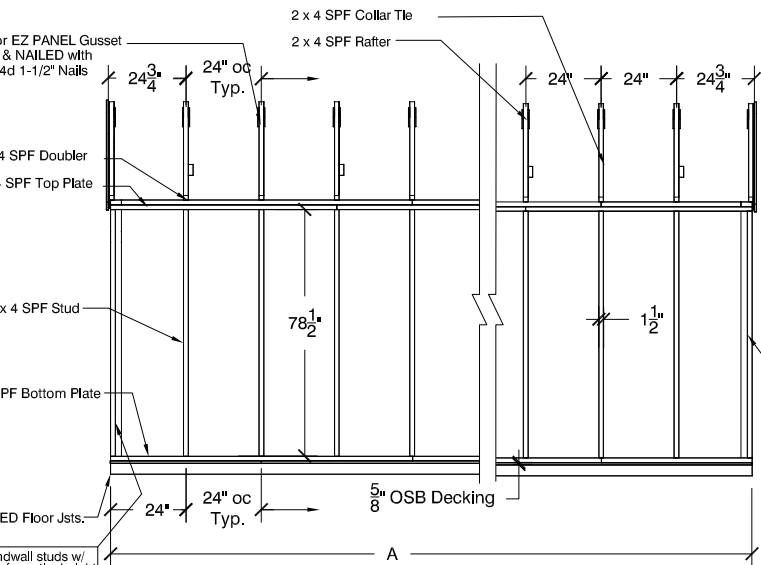
SIZE	ADDRESS	DWG BY.	Last Revision
D	1000 Terns Dr. Monroe, MI 48162	Ken Sutter	Feb. 15, 2024
SCALE	As Noted	(800) 437-0784	SHEET 1 of 7



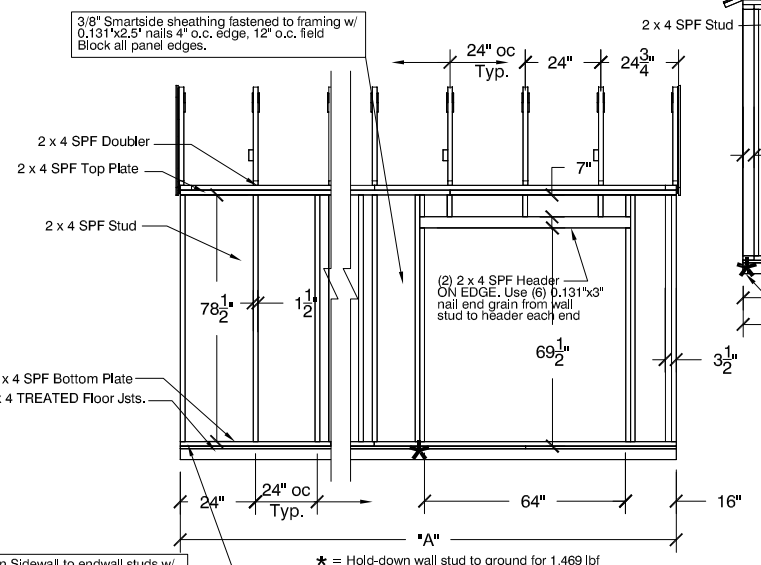
A GABLE FRAMING with DOOR
SCALE: 3/16" = 1'-0"



D EAVE SIDE FRAMING w/ DOOR CENTER
SCALE: 3/16" = 1'-0"



B EAVE FRAMING w/o DOOR
SCALE: 3/16" = 1'-0"



E EAVE SIDE FRAMING w/ DOOR OFFSET
SCALE: 3/16" = 1'-0"

Attach studs to top and bottom plate w/ (3) 0.131"x3" end grain nails
Attach bottom plate to rim joist w/ (3) 0.131"x3" nails per stud bay



Fasten Sidewall to endwall studs w/ 0.131"x3" nails 6" o.c. for entire height of wall

3/8" Smartside sheathing fastened to framing w/ 0.131"x2.5" nails 6" o.c. edge, 12" o.c. field
Block all panel edges.

3/8" Smartside sheathing fastened to framing w/ 0.131"x2.5" nails 6" o.c. edge, 12" o.c. field
Block all panel edges.

C GABLE FRAMING
SCALE: 3/16" = 1'-0"

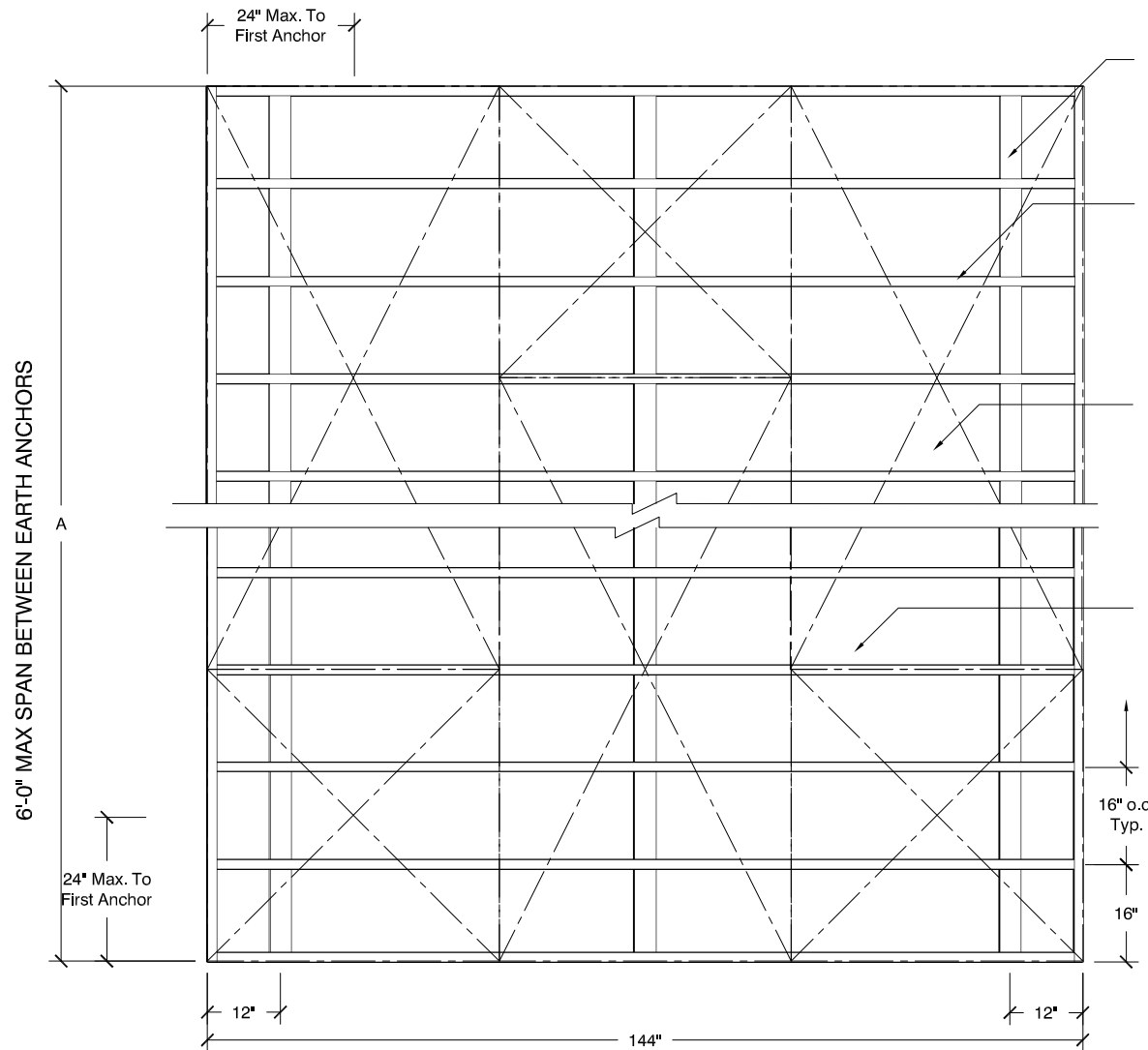
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Depth Dim. "A"	12'-0" Base	16'-0"	18'-0"	20'-0"	24'-0"
Gable Style					
12'-0" wide by:					



12'-0" HANOVER/LANCASTER GABLE STYLE FRAMING			
SIZE D	ADDRESS 1000 Ternes Dr. Monroe, MI 48162	DWG BY. Ken Sutter	Last Revision Feb. 15, 2024
SCALE As Noted	(800) 437-0784	SHEET 2 of 7	



P.T. BOND BOARD (TYP)...
SECURE BOND @ CORNERS
W/3-10d NAILS

P.T. JOISTS @ 16" O.C. (TYP)...
SECURE JOIST TO BOX SILL
W/3-10d NAILS @ EACH JOIST

4X4 P.T. RUNNERS (TYP)...
TOE NAIL FLOOR JOIST TO RUNNERS
W/3-10d NAILS @ EACH JOIST/RUNNER
INTERSECTION

5/8" OSB STANDARD OR 3/4" CDX TREATED PLYWOOD
(Optional 3/4" CDX Treated Plywood)

SECURE FLOOR DECKING
TO FLOOR JOIST W/8d NAILS
6" o.c. edge, 12" o.c. field

NOTES:

1. WHEN CONCRETE SLAB IS USED, THIS FLOOR FRAMING IS NOT REQUIRED
2. ALL MATERIALS AND LABOR SHALL MEET OR EXCEED APPLICABLE LOCAL CODES.
3. ALL LUMBER TO BE NO. 2 GRADE SPRUCE PINE FIR OR EQUIVALENT.
4. THIS FLOOR FRAMING PLAN IS FOR THE BACKYARD PRODUCTS, INC. 12' WIDE GABLE STYLE BUILDING
5. IN THE EVENT OF A DIMENSIONAL OR MATERIAL DISCREPANCY, NOTIFY BACKYARD PRODUCTS, INC.

A
3

FLOOR FRAMING

SCALE: 3/8" = 1'-0"



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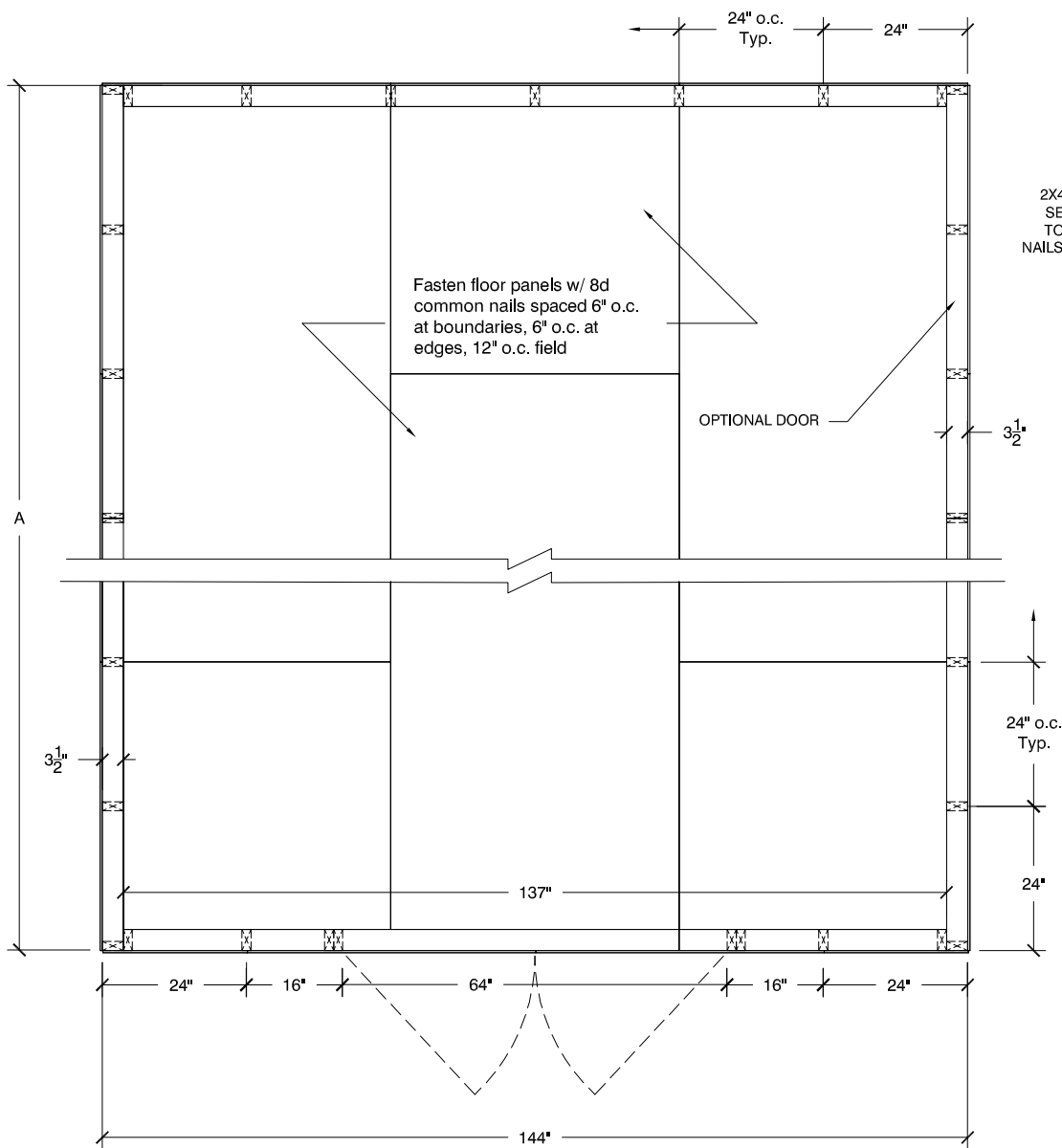
12'-0" HANOVER/LANCASTER GABLE STYLE FLOOR

Depth Dim. "A "	12'-0" Base	16'-0"	18'-0"	20'-0"	24'-0"	
Gable Style 12'-0" wide by:						

23-MAY-24



SIZE	ADDRESS	DWG BY.	Last Revision
D	1000 Ternes Dr. Monroe, MI 48162	Ken Sutter	Feb. 15, 2024
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TYP. WALL FRAMING PLAN
SCALE: 3/8" = 1'-0"

NOTE:

1. THIS WALL PLAN IS GOOD FOR THE 12' WIDE GABLE ONLY. ALL MATERIAL AND LABOR SHALL MEET OR EXCEED APPLICABLE LOCAL CODES.

Fasten roof panels w/ 8d common nails spaced 6" o.c. at floor boundaries, 6" o.c. at edges, 12" o.c. field

2X4 COLLAR TIE @ 48" O.C. SECURE COLLAR TIES TO RAFTERS W/16-10d NAILS (8 NAILS EACH END RAFTER)

FIBERGLASS SHINGLES SECURED TO ROOF DECKING W/1 1/4" ROOF NAILS
1-LAYER 15# FELT
7/16" OSB ROOF DECKING
SEE ROOF FRAMING DETAIL

2 x 4 SPF RAFTER

Attach Rafter to Top plate w/ (1) H1

2 x 4 DOUBLER
2 x 4 SPF TOP PLATE

SHEATHING GRADE 3/8" SMARTSIDE PANEL NAILED W/8d NAILS



2 x 4 SPF STUD 24" O.C. TYP.

2 x 4 SPF BOTTOM PLATE

B
4

WALL SECTION

SCALE: 3/8" = 1'-0"

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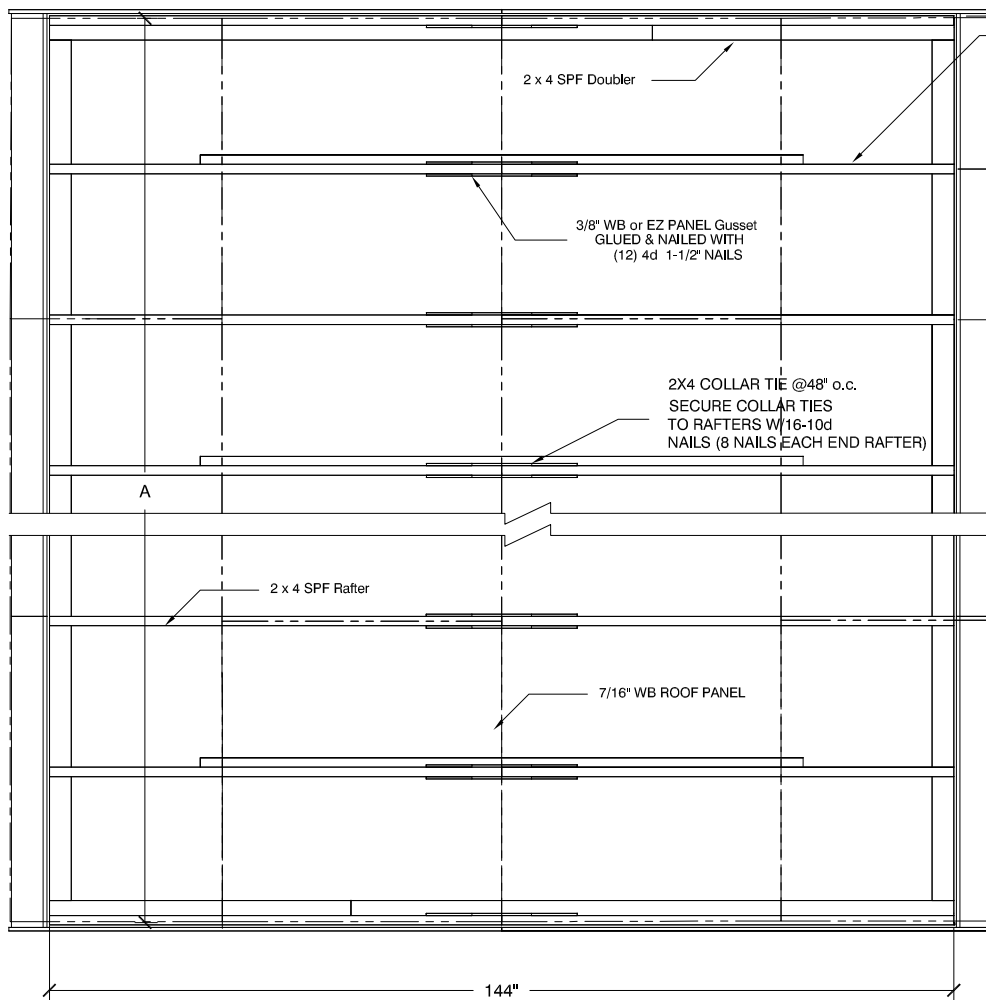
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Depth Dim. "A "	12'-0" Base	16'-0"	18'-0"	20'-0"	24'-0"	
Gable Style						
12'-0" wide by:						



**12'-0" HANOVER/LANCASTER
GABLE STYLE WALLS**

SIZE	ADDRESS	DWG BY.	Last Revision
D	1000 Terns Dr. Monroe, MI 48162	Marc Donnelly	Feb. 15, 2024
SCALE	As Noted	(800) 437-0794	SHEET 4 of 7



(A/5) ROOF FRAMING PLAN
SCALE: 3/8" = 1'-0"

NOTE:

1. THIS WALL PLAN IS GOOD FOR THE 12' WIDE GABLE ONLY. ALL MATERIAL AND LABOR SHALL MEET OR EXCEED APPLICABLE LOCAL CODES.

Fasten roof panels w/ 8d common nails spaced 6" o.c. at floor boundaries, 6" o.c. at edges, 12" o.c. field

24" o.c. Typ.

2X4 COLLAR TIE @48" o.c. SECURE COLLAR TIES TO RAFTERS W/16-10d NAILS (8 NAILS EACH END RAFTER)

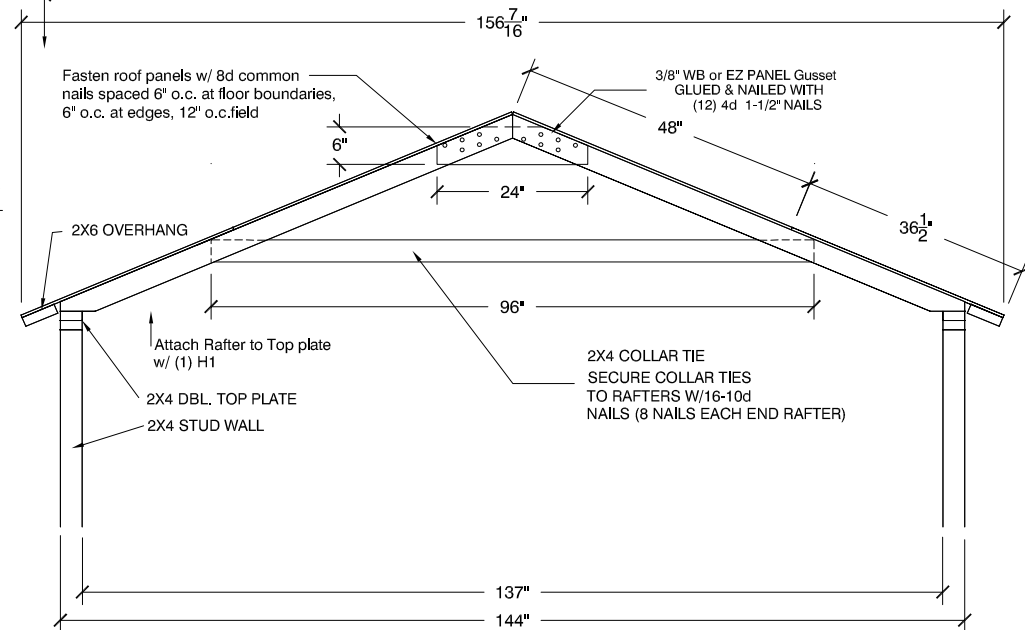
2 x 4 SPF Rafter

7/16" WB ROOF PANEL

144"



23-MAY-24



(B/5) RAFTER SECTION
SCALE: 3/8" = 1'-0"

NOTES:

1. Approved Shingles installed per manufacturers instructions with 4 nails per shingle
2. Drip edge must overlap 2" and nailed every 12" max.

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Depth Dim. "A "	12'-0" Base	16'-0"	18'-0"	20'-0"	24'-0"	
Gable Style 12'-0" wide by:						



**12'-0" HANOVER/LANCASTER
GABLE STYLE ROOF**

SIZE	ADDRESS	DWG BY.	Last Revision
D	1000 Ternes Dr. Monroe, MI 48162	Ken Sutter	Feb. 15, 2024
SCALE	As Noted	(800) 437-0784	SHEET 5 of 7

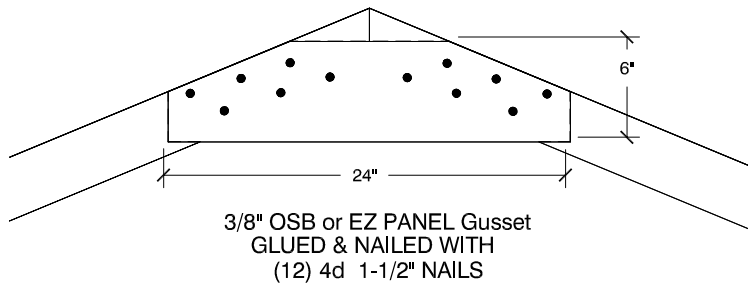
NOTES:

1. THESE STRUCTURAL DRAWINGS SHALL BE USED FOR THE CONSTRUCTION OF THE SHOWN STORAGE BUILDING. IN THE EVENT OF DIMENSIONAL DISCREPANCY, NOTIFY THE ENGINEER FOR RESOLUTION OF CONFLICT. ANY DEVIATION FROM THESE DRAWINGS MUST BE APPROVED BY THE ENGINEER

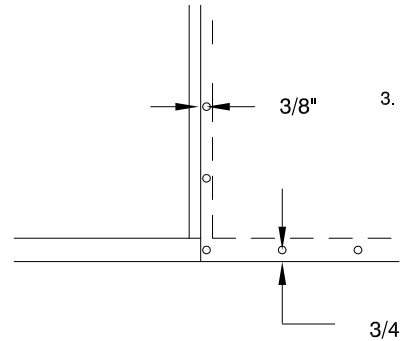
2. MATERIALS

- * ALL LUMBER TO BE NUMBER 2 GRADE SPRUCE PINE FIR OR EQUIVALENT.
- * ALL PLYWOOD SHALL CONFORM TO THE LATEST EDITION OF APA SPECIFICATIONS.
- * ALL CONNECTORS/FASTENERS AND ITS SPACING SHALL MEET THE APPLICABLE CODES.
- * ALL MATERIALS AND LABOR PER APPLICABLE LOCAL CODES
- * SmartSide Panel: 3/8" APA RATED (PRP-108) AS MANUFACTURED BY LOUISIANA-PACIFIC COMPANY, PORTLAND, OR. NER 124 CODE RECOGNITION.
- * O.S.B DECKING: 7/16" APA RATED ORIENTED STAND BOARD AS MANUFACTURED BY LOUISIANA-PACIFIC COMPANY, PORTLAND, OR.

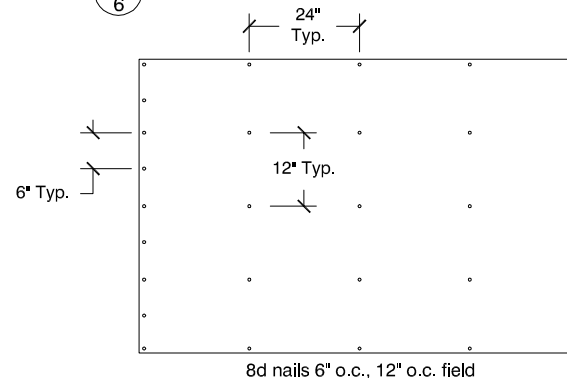
3. THESE STRUCTURES ARE TO BE USED AS STORAGE ONLY AND NOT FOR HABITATION



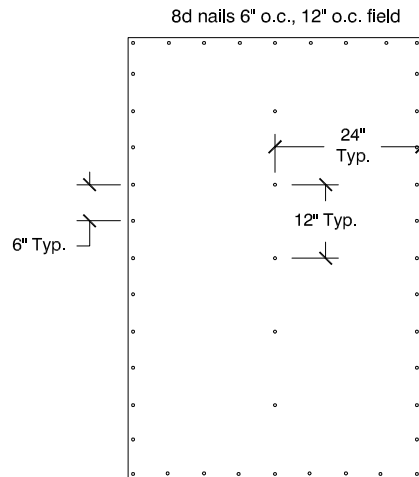
A
6 **ROOF GUSSET CONNECTION DETAIL**
SCALE: 1" = 1'-0"



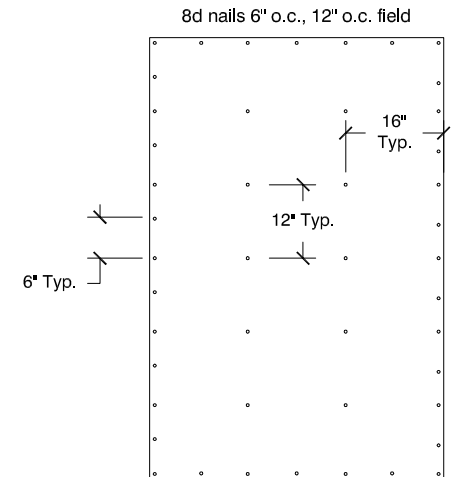
E
6 **SINGLE EDGE NAILING**



C
6 **ROOF PANEL TYP. NAIL PATTERN**



B
6 **WALL PANEL TYP. NAIL PATTERN**



D
6 **FLOOR PANEL TYP. NAIL PATTERN**



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**12'-0" HANOVER/LANCASTER
GABLE STYLE NOTES**

Depth Dim. "A"	12'-0" Base	16'-0"	18'-0"	20'-0"	24'-0"	
Gable Style 12'-0" wide by:						



SIZE	ADDRESS	DWG BY.	Last Revision
D	1000 Ternes Dr. Monroe, MI 48162	Ken Sutter	Feb. 15, 2024
SCALE	As Noted	(800) 437-0794	SHEET 6 of 7

5/8" OSB OR CDX TREATED PLYWOOD
SECURE FLOOR DECKING TO FLOOR JOIST
WITH 0.131 x 2.5" long 8d NAILS @ 6" O.C.
@ EDGES & 12" O.C.
@ INTERMEDIATE SUPPORTS

2x4 P.T. JOISTS @ 16" O.C. (TYP)
SECURE JOIST TO BOX SILL @ EACH JOIST WITH
(3) 10d

4x4 P.T. RUNNERS (TYP)...
TOE NAIL FLOOR JOIST TO RUNNERS
WITH (3) 10d TOE NAILS
@ EACH JOIST / RUNNER INTERSECTION

PRESSURE TREATED WOOD SHIMS
FOR LEVELING WHEN NECESSARY

4" X 12" X 12" SOLID CONC. BLOCK
@ 42" O.C. (TYP) @ EACH RUNNER

SHEATHING GRADE 3/8" EZ PANEL
BOARD NAILED WITH
0.131 dia. x 2.5" long nails

2 X 4 SPF STUD @ 24" O.C.

2 X 4 SPF BOTTOM PLATE

BOTTOM PLATE TO PERIMETER BEAM
w/ (3) 10d nails per stud bay

(3) 10d NAILS INTO
EACH FLOOR JOISTS

2 x 4 P.T. BOND BOARD

8" Min.
to Sheathing

30" SINGLE HELIX ANCHOR
MODEL MTE-30 AS MFD.
BY TIEDOWN ENGINEER, ATLANTA, GA.
WITH IN 24" OF CORNERS & 72" O.C. MAX.
OR AS REQUIRED BY LOCAL CODE
30 DEGREES TO VERTICAL IN THIS PLANE (TYP)

Min. (1) anchor at each each side of door

WOOD FLOOR FRAMING DETAIL

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

NOTES:

1. WHEN MONOLITHIC SLAB IS USED, THIS FLOOR FRAMING IS NOT REQUIRED
2. ALL MATERIALS AND LABOR SHALL MEET OR EXCEED APPLICABLE LOCAL CODES.
3. ALL LUMBER TO BE NO. 2 GRADE SPRUCE PINE FIR OR EQUIVALENT
4. THIS FLOOR FRAMING PLAN IS FOR THE BACKYARD PRODUCTS, LLC 10' WIDE GABLE ANY DEVIATION OR MODIFICATION IS STRICTLY PROHIBITED.
5. IN THE EVENT OF A DIMENSIONAL OR MATERIAL DISCREPANCY, NOTIFY BACKYARD PRODUCTS, LLC

4" CONCRETE

OR FIBERMESH

4" COMPACTED
SAND OR GRAVEL
SEE NOTE 4

*** (1) Anchor Minimum On ***
Each Side Of Door Opening

MONOLITHIC CONCRETE SLAB DETAIL

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

SHEATHING GRADE 3/8" EZ PANEL
BOARD NAILED WITH
0.131 dia. x 2.5" long nails

2 X 4 SPF STUD @ 24" O.C.

1/2" WEDGE ANCHOR BOLT 30" O.C. 8-1/2" LONG
(...or other approved fastener...)

2 X 4 SPF BOTTOM PLATE

2 X 4 P.T. SILL PLATE

2" NAILS EVERY 3"
ANGLED INTO FLOOR
FRAME, 1/2" FROM EDGE

8" Min. to Sheathing

12" Minimum

12"

NOTES:

1. WHEN FLOOR FRAMING IS USED, THIS MONOLITHIC SLAB IS NOT REQUIRED
2. ALL MATERIALS AND LABOR SHALL MEET OR EXCEED APPLICABLE LOCAL CODES.
3. UNLESS OTHERWISE SPECIFIED OR SURPESSEED BY APPLICABLE LOCAL CODES, MATERIAL TO BE 3000 PSI CONCRETE, #4 (0.5 dia.) REBAR SPACED 10" o.c.
4. THIS MONOLITHIC SLAB IS DESIGNED FOR THE BACKYARD PRODUCTS, LLC 10' WIDE GABLE ANY DEVIATION AND MODIFICATION IS STRICTLY PROHIBITED.



23-MAY-24

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FOUNDATION DETAILS



SIZE	ADDRESS	DWG BY:	Last Revision
A	1000 Tennes Drive Monroe, MI 48162	Ken Sutter	July 15, 2021
SCALE	As Noted	(800) 221-1849	SHEET 7 of 7