

December 29, 2023

Mr. Thomas Campbell
Florida Department of Business and Professional Regulation
Codes & Standards Office
2601 Blair Stone Road, Building C
Tallahassee, FL 32399-0772

RE: Manufacturer: Premier Portable
Agency Plan Number: Deluxe Lofted Shed 23

Dear Mr. Campbell,

Architectural Testing Inc., an Intertek company ("Intertek-ATI"), part of Intertek¹ Building Science Solutions, in accordance with the requirements of the Florida Department of Business and Professional Regulations, the above-referenced documents have been reviewed for compliance with:

2023 Florida Building Code, 8th Edition with Latest Supplements
2020 National Electrical Code (NFPA-70-20)

This approval covers the factory-built structure only. Any alterations to the factory-built structure on site would avoid approval. This plan is subject to the following:

- This plan is Not Approved for High-Velocity Hurricane Zone (i.e., Broward and Miami/Dade Counties)
- Signed and sealed plans are on file with Intertek-ATI
- Chapter 633 Plan Review and Inspection shall be conducted by the local fire and safety inspector
- Items installed on-site are subject to review and approval by the local authority having jurisdiction.
- This review includes products for compliance with 553.8425 or FAC Chapter 61G20-3

If you have any questions or require our assistance, please do not hesitate to contact us.

Respectfully submitted,

Ryan Knowles

Ryan Knowles
Senior Manager
Building Science Solutions

^[1] Intertek is a brand name representing the Intertek Group plc legal entities, including but not limited to, Intertek Testing Services NA Inc., Professional Service Industries, Inc. ("INTERTEK-PSI"), Architectural Testing Inc. ("INTERTEK-ATI"), and MT Group Inc. ("INTERTEK-MT").
www.intertek.com/building



DELUXE LOFTED BARN PLANS

STATE OF FLORIDA (1 7 0 M P H) W I N D S

GENERAL NOTES:

1. DESIGNED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE, BUILDING (F.B.C.).
2. ALL MATERIALS AND LABOR SHALL BE IN ACCORDANCE WITH THE ABOVE CODE AND ALL OTHER APPLICABLE LOCAL CODES AT THE TIME OF MANUFACTURE.
3. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
4. THE FOUNDATION PLAN IS A SEPARATE SET OF PLANS FOR APPROVAL BY LOCAL MUNICIPALITIES.
5. EXTERIOR DIMENSIONS CAN VARY BETWEEN LIMITS SHOWN $\pm 2"-0"$ o/c BUT MEMBER SPACING SHALL NOT EXCEED LIMITS AS INDICATED.
6. ALL THE FOLLOWING LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA USE CATEGORY UC4B (GROUND CONTACT, HEAVY DUTY) SKIDS.
7. ALL THE FOLLOWING LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA USE CATEGORY UC3B (EXTERIOR ABOVE GROUND, UNCOATED OR POOR WATER RUNOFF), FLOORS JOISTS, PLYWOOD FLOOR DECKING, AND EXTERIOR RATED WOOD STRUCTURAL PANEL SIDING.
8. LP PROSTRUCT SUB-FLOORING $1\frac{3}{4}"$ MAY BE USED IN LIEU OF PRESSURE TREATED PLYWOOD FLOORING.
9. P.T. PLYWOOD FLOORING NOT REQUIRED WHERE THE BOTTOM OF THE FLOORING IS OVER 18" ABOVE GROUND SECTION 2304.12.1.1 FBC 2023.
10. ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED (G185) OR STAINLESS STEEL.
11. ALL WINDOWS WITHIN 24" OF DOORS, AND ALL GLASS IN DOORS SHALL BE SAFETY, TEMPERED, OR ACRYLIC PLASTIC SHEET.
12. FOR ROOFS WITH ASPHALT SHINGLES AND A SLOPE BETWEEN 2 TO 12 AND 4 TO 12 SHALL HAVE A DOUBLE UNDERLAYMENT APPLICATION AS REQUIRED IN ACCORDANCE WITH SECTION 1507.2.2 OF THE 2023 F.B.C.
13. UNDERLAYMENT SHALL CONFORM WITH SECTION 1507.2.3 (ASPHALT SHINGLES) AND 1507.4.5.1 (METAL ROOF PANEL) OF THE 2023 F.B.C.
14. ASPHALT SHINGLES SHALL CONFORM WITH SECTION 1507.2.5 OF THE 2023 F.B.C. ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH 1507.2.7 OF THE 2023 F.B.C.
15. FASTENERS FOR ASPHALT SHINGLES SHALL CONFORM TO SECTION 1507.2.6 OF THE 2023 F.B.C.
16. TIE-DOWNS SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE CODES.
17. BUILDINGS NOT DESIGNED FOR HHZ REQUIREMENTS AS SET FORTH IN THE 2023 F.B.C.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY AND PLACEMENT OF LAWN STORAGE UNIT TO INSURE THE INTEGRITY OF THE BUILDING AND ITS COMPONENT PARTS.
20. NO FIELD REVISIONS TO ANY STRUCTURAL COMPONENT OR DEVIATION FROM THESE DRAWINGS SHALL BE MADE.
21. THE OWNER AND THE CONTRACTOR SHALL HOLD HARMLESS THE ENGINEER FROM AND AGAINST ALL LIABILITY CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING LEGAL FEES ARISING OUT OF OR RESULTING FROM ERROR OR OMISSIONS IN THE PERFORMANCE OF THE WORK BY THE CONTRACTOR.
22. SECTIONS AND DETAILS ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY AT ALL SIMILAR LOCATIONS, UNLESS OTHER SECTIONS AND DETAILS ARE SPECIALLY REFERENCED.
23. REFER TO SUPPLIED FASTENING SCHEDULE FOR FASTENING BASE ON CONNECTION AND LOCATION OF MEMBERS AS PER 2023 FLORIDA BUILDING CODE TABLE 2304.10.1 UNLESS NOTED OTHERWISE.
24. BUILDINGS HAVE BEEN DESIGNED FOR LP SMARTSIDE PREVISION PANEL SIDING, LP SMARTSIDE PRECISION LAP SIDING SHALL NOT BE USED.
25. FASTENERS IN LP SMARTSIDE PRECISION PANEL SIDING MUST NOT BE INSTALLED IN PANEL SIDING GROOVES IN THE FIELD OF THE PANEL SIDING OR WHEN THE PANEL SIDING GROOVES OCCUR AT CUT EDGES OF THE PANEL SIDING..
26. REFER TO THE ICC-ES EVALUATION REPORT ESR-1301 FOR ADDITIONAL DATA AND SPECIFICATIONS OF LP SMARTSIDE PRECISION PANEL SIDING. FLORIDA PRODUCT APPROVAL 9190.5 & 9190.6
27. MAX OPENING WIDTHS MUST COMPLY WITH DESIGN RATIOS AS PER ANSI/AWC-2015 CHAPTER 35. BUILDING HAVE DESIGNED TO HAVE ONLY OPENINGS WITH MAX WIDTHS EQUAL TO THOSE IN THE ENDWALL SHEAR WALL CHART.
28. AS PER SECTION 553.73(10)(h), FLORIDA STATUTES, STORAGE SHEDS THAT ARE NOT DESIGNED FOR HUMAN HABITATION AND THAT HAVE A FLOOR AREA OF 720 SQUARE FEET OR LESS ARE NOT REQUIRED TO COMPLY WITH THE MANDATORY WIND-BORNE-DEBRIS-IMPACT STANDARDS OF THE FLORIDA BUILDING CODE. IN ADDITION, SUCH BUILDINGS THAT ARE 400 SQUARE FEET OR LESS AND THAT ARE INTENDED FOR USE IN CONJUNCTION WITH ONE-AND-TWO FAMILY RESIDENCES ARE NOT SUBJECT TO THE DOOR HEIGHT AND WIDTH REQUIREMENTS OF THE FLORIDA BUILDING CODE. SEE FBC 1010.1.1 EXCEPTION (10).
29. BUILDING HAVE BEEN DESIGNED TO HAVE ANCHORS DIRECTLY ATTACHED TO ALL FOUR CORNERS OR THE BUILDING TO RESIST TENSION FORCES FROM LATERAL WIND LOADS, THIS DESIGN CONSIDERATION MUST BE MADE BY INSTALLER WHEN ATTACHING ANCHORING SYSTEM TO BUILDING.
30. UNLESS NOTED OTHERWISE, ATTACH ALL MANUFACTURED PRODUCTS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
31. SHEDS THAT HAVE A FLOOR AREA OF 720 SQUARE FEET OR MORE ARE REQUIRED TO HAVE IMPACT RESISTANT WINDOWS & DOORS PER FLORIDA CODE 1609.1.2 "PROTECTION OF OPENINGS". GLAZED OPENINGS IN BUILDING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT-RESISTANT COVERING.

NOTE:

THIS BUILDING IS STRUCTURALLY ABLE TO MEET HABITABLE SPACE. TO MAKE HABITABLE SPACE, AN ENGINEER OR ARCHITECT MUST DESIGN SYSTEMS TO MEET THE FLORIDA BUILDING CODE.

HABITABLE SPACE:

A SPACE IN A BUILDING FOR LIVING, SLEEPING, EATING OR COOKING; BATHROOMS, TOILET ROOMS, CLOSETS, HALLS, SCREEN ENCLOSURES, SUNROOM CATEGORIES UJIII AND IV AS DEFINED IN SECTION 2002.6; STORAGE OR UTILITY SPACES AND SIMILAR AREAS ARE NOT CONSIDERED HABITABLE SPACES.

SITE INSTALLED ITEMS:

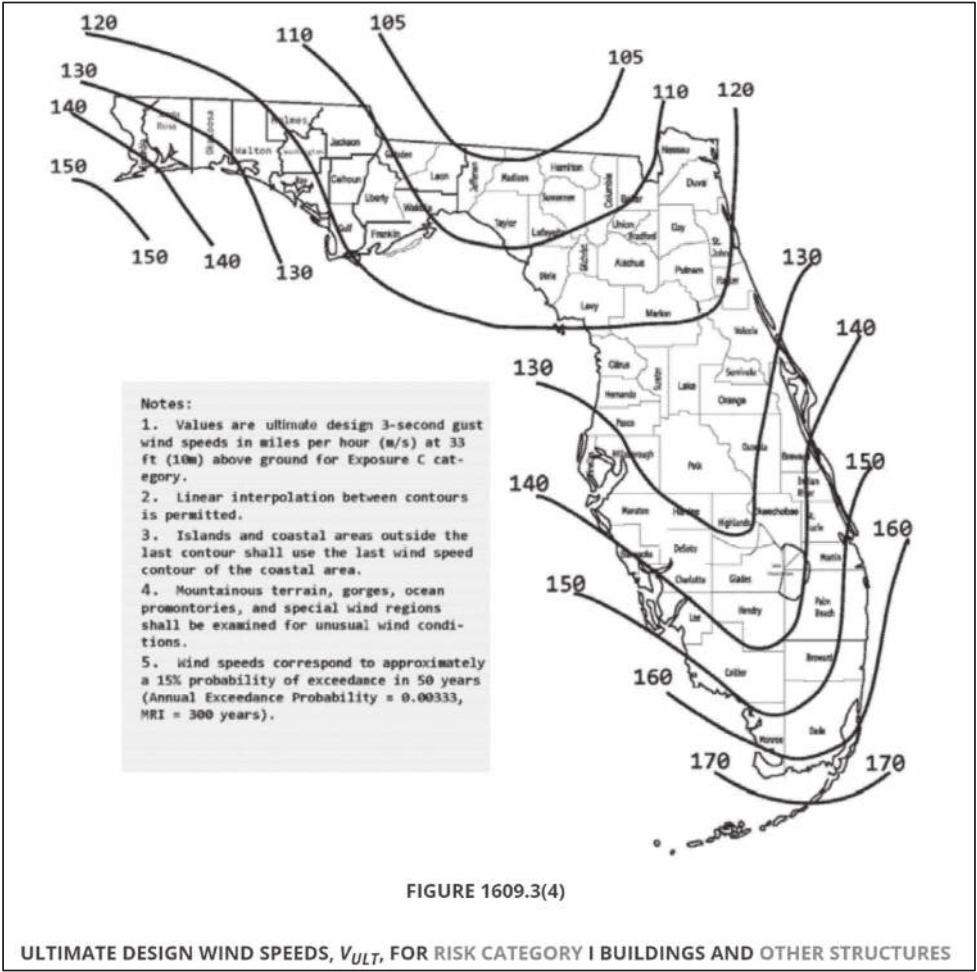
NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTIONAL APPROVAL.

1. THE COMPLETE FOUNDATION SUPPORT AND TIE-DOWN SYSTEM.
2. RAMPS, STAIRS, AND GENERAL ACCESS TO THE BUILDING IF NECESSARY.
3. GUTTERS AND DOWNSPOUTS ON ALL BUILDINGS WITH EAVES OF LESS THAN 6 INCHES HORIZONTAL PROJECTION EXCEPT FOR GABLE END RAKES.
4. BUILDING IS EQUAL OR LESS THAN 720 SQ. FOOT.

SHED MANUFACTURER SHALL HAVE A LIST OF ALL REQUIRED PRODUCTS THAT NEED FLORIDA STATE APPROVAL AVAILABLE FOR 3RD PARTY INSPECTOR AND REVIEW BY E.O.R. FOR COMPLIANCE WITH WIND LOADS



WIND CHART



DESIGN CRITERIA:

1. WIND VELOCITY 170 MPH.
2. DESIGN CRITERIA (RISK CATEGORY) I
3. WIND EXPOSURE C
4. INT. PRESSURE COEFFICIENT ± 0.18
5. ENCLOSURE CLASSIFICATION ENCLOSED
6. BASED ON HEIGHT 15 FEET
7. OVERHANG NO
8. FLOOR DESIGN LIVE LOAD 125 PSF
FLOOR DESIGN DEAD LOAD 4 PSF
9. ROOF DESIGN LIVE LOAD 30 PSF
ROOF DESIGN DEAD LOAD 7 PSF
GABLE END LATERAL LOAD 30 PSF
10. WALL DESIGN DEAD LOAD 3 PSF
11. CONSTRUCTION TYPE VB
- BUILDING OCCUPANCY = RESIDENTIAL STORAGE SHED
12. FIRE RATING EXT. WALLS 0
13. ALLOWABLE NUMBER OF FLOORS 1
14. THE CONTRACTOR / MANUFACTURER MUST COMPLY WITH THE FOLLOWING CODES AND ALL OF THEIR AMENDMENTS / SUPPLEMENTS.

FLORIDA CODE SUMMARY

2023 FLORIDA BUILDING CODE
ADOPTS w/ AMENDMENTS IBC 2021
2020 NATIONAL ELECTRICAL CODE

SHEET LIST

SHEET NUMBER	SHEET TITLE
C-1	COVER SHEET
C-2	FASTENING SCHEDULE / WIND LOADING
A-1	FRAMING PLANS & DETAILS
A-2	DETAILS / SHEARWALL CHART
A-3	TYPICAL DETAILS
A-4	PORCH DETAILS
A-5	TRUSS DETAILS



AREA FOR APPROVAL STAMPS



Insured-AT1 (Architectural Testing)
This document meets or exceeds the
Requirements of the State of Florida
Manufactured Building Rules & Regulations
2023 CBC with the Latest Supplements
Contract: Type VB
Occupancy: R
Allowed Floors: 1
Fins: Railing Not: Walls: 0 Ins.
Wind Velocity: 170 mph
Plan #: Design Label Sheet 23
Floor Load: 125
Approval Date: 2023-12-29
Ryan Kewales
Ryan Kewales

OCALA FLORIDA SHOP
DBA FLORA-BAMA MFG
3082 NE 24TH STREET
OCALA FL 34470

PROJECT:

DELUXE LOFTED BARN

COVER SHEET & GENERAL NOTES

DON VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER



ALTERNATE DESIGN SOLUTIONS
STRUCTURAL, ENGINEERING DESIGN & CONSTRUCTION SERVICES
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SOUTH FULTON, TN 38257
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REVISION	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			

DATE: 11.13.23
PROJECT NO.: 20205
DRAWING BY: JH
CHK BY: DVG
DWG NO.: C-1



FASTENING SCHEDULE (2304.10.1 FBC)		
CONNECTION	FASTENING	LOCATION
1. JOIST TO SILL OR GIRDER	3 – 8d COMMON (2½"x0.131") 3 – 3"x0.131" NAILS 3 – 3" 14 GAGE STAPLES	TOE-NAIL
2. BRIDGING TO JOIST	2 – 8d COMMON (2½"x0.131") 2 – 3"x0.131" NAILS 2 – 3" 14 GAGE STAPLES	TOE-NAIL EACH END
3. SOLE PLATE TO JOIST OR BLOCKING	16d (3½"x0.135") @ 16" o/c 3"x0.131" NAILS @ 8" o/c 3" 14 GAGE STAPLES @ 12" o/c	TYPICAL FACE NAIL
4. SOLE PLATE TO JOIST OR BLOCKING @ BRACED WALL PANEL	3 – 16d (3½"x0.135") @ 16" o/c 4 – 3"x0.131" NAILS @ 16" o/c 4 – 3" 14 GAGE STAPLES @ 16" o/c	BRACED WALL PANELS
5. TOP PLATE TO STUD	2 – 16d (3½"x0.162") 3 – 3"x0.131" NAILS 3 – 3" 14 GAGE STAPLES	END NAIL
6. STUD TO SOLE PLATE	4 – 8d COMMON (2½"x0.131") 4 – 3"x0.131" NAILS 3 – 3" 14 GAGE STAPLES 2 –16d COMMON (3½"x0.162") 3 – 3"x0.131" NAILS 3 – 3" 14 GAGE STAPLES	TOE-NAIL END NAIL
7. DOUBLE STUDS	16d (3½"x0.135") @ 24" o/c 3"x0.131" NAILS @ 8" o/c 3" 14 GAGE STAPLES @ 8" o/c	FACE NAIL
8. DOUBLE TOP PLATES	16d (3½"x0.135") @ 16" o/c 3"x0.131" NAILS @ 12" o/c 3" 14 GAGE STAPLES @ 12" o/c 8 –16d COMMON (3½"x0.162") 12 – 3"x0.131" NAILS 12 – 3" 14 GAGE STAPLES	TYPICAL FACE NAIL LAP SPLICE
9. BLOCKING BETWEEN JOISTS OR TRUSSES TO TOP PLATE	3 – 8d COMMON (2½"x0.131") 3 – 3"x0.131" NAILS 3 – 3" 14 GAGE STAPLES	TOE-NAIL
10. RIM JOIST TO TOP PLATE	8d (2½"x0.131") @ 6" o/c 3"x0.131" NAILS @ 6" o/c 3" 14 GAGE STAPLES @ 6" o/c	TOE-NAIL
11. TOP PLATES, LAPS AND INTERSECTIONS	2 – 16d (3½"x0.162") 3 – 3"x0.131" NAILS 3 – 3" 14 GAGE STAPLES	FACE NAIL
12. CONTINUOUS HEADER (2) PIECES	16d COMMON (3½"x0.162")	16" o/c ALONG EDGE
13. CEILING JOISTS TO PLATE	3 – 8d COMMON (2½"x0.131") 5 – 3"x0.131" NAILS 5 – 3" 14 GAGE STAPLES	TOE-NAIL
14. CONTINUOUS HEADER TO STUD	4 –8d COMMON (2½"x0.131")	TOE-NAIL
15. RAFTER TO PLATE	3 – 8d COMMON (2½"x0.131") 3 – 3"x0.131" NAILS 3 – 3" 14 GAGE STAPLES	TOE-NAIL
16. 1" DIAGONAL BRACE TO EA. STUD & PLATE	2 – 8d COMMON (2½"x0.131") 2 – 3"x0.131" NAILS 3 – 3" 14 GAGE STAPLES	FACE NAIL
17. BUILT-UP CORNER STUDS	16d (3½"x0.135") @ 24" o/c 3"x0.131" NAILS @ 16" o/c 3" 14 GAGE STAPLES @ 16" o/c	@ 24" o/c @ 16" o/c @ 16" o/c
18. BUILT-UP GIRDER AND BEAMS	20d (4"x0.192") @ 32" o/c 3"x0.131" NAILS @ 24" o/c 3" 14 GAGE STAPLES @ 24" o/c 2 –20d COMMON (4"x0.192") 3 – 3"x0.131" NAILS 3 – 3" 14 GAGE STAPLES	FACE NAIL @ TOP & BOTTOM STAGGERED ON OPP. SIDES FACE NAIL @ ENDS AND AT EACH SPLICE
19. COLLAR TIE TO RAFTER	3 – 10d COMMON (3"x0.148") 4 – 3"x0.131" NAILS 4 – 3" 14 GAGE STAPLES	FACE NAIL
20. ROOF RAFTER TO 2-BY RIDGE BEAM	2 – 16d COMMON (3½"x0.135") 3 – 3"x0.131" NAILS 3 – 3" 14 GAGE STAPLES	TOE-NAIL OR FACE NAIL
21. JOIST TO BAND JOIST	3 – 16d COMMON (3½"x0.135") 4 – 3"x0.131" NAILS 4 – 3" 14 GAGE STAPLES	FACE NAIL

22. WOOD STRUCTURAL PANELS AND PARTICLE BOARD SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	½" AND LESS 1⅜" TO 1⅝" 1⅝" TO ¾" ¾" & LESS ⅞" TO 1" 1⅛" TO 1¼"	6dFJ 2⅝"x0.113" NAIL ⁱ 1¾" 16 GAGE ^m 8d COMMON (ROOF IN 110-140 V _{ASD} MPH EXP. "B") 8d ^d OR 2⅝"x0.113" NAIL ⁿ 2" 16 GAGE ⁿ 8d ^e 8d ^f 10d ^d OR 8d ^f	6" o/c @ EDGES AND INTERMEDIATE, 4" o/c @ COMPONENTS & CLADDING EDGE STRIP #ZONE 3
23. 29ga. STEEL SIDING (TO FRAMING)	½" OR LESS ⅝"	6d ^f 8d ^f	NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES
24. FIBERBOARD SHEATHING ⁹	½" 2⅝ ₃₂ "	NO. 11 GAGE ROOFING NAIL ^h 6d COMMON NAIL (2"x0.113") NO 16 GAGE STAPLE ⁱ NO. 11 GAGE ROOFING NAIL ^h 8d COMMON NAIL (2½"x0.131") NO 16 GAGE STAPLE ⁱ	

FIGURE 1609.6.2.2
COMPONENT AND CLADDING PRESSURE

NOTES—OPTIONAL ELECTRIC

- ALL WIRING SHALL BE 14 GAGE 3-WIRE MC CABLE.
- ENCASE IN ALL METAL BOXES.

WIRING DIAGRAM
(OPTIONAL)

a. COMMON OR BOX NAIL ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.

b. NAILED SPACED @ 6" o/c AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE, FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLE BOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305 FBC. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.

c. COMMON OR DEFORMED SHANK (6d – 2"x0.113"; 8d-2½"x0.131"; 10d 3"x0.148").

d. COMMON (6d – 2"x0.113";8d-2½"x0.131"; 10d 3"x0.148").

e. DEFORMED SHANK (6d-2"x0.113"; 8d 2½"x0.131" 10d 3"x0.148").

f. CORROSION-RESISTANT SIDING (6d-1⅝"x0.106";8d 2⅝"x0.128") OR CASING (6d2"x0.099";8d 2 ½"x0.113") NAIL.

g. FASTENERS SPACED 3" o/c AT EXTERIOR EDGES AND 6" o/c AT INTERMEDIATE SUPPORTS WHEN USED AS STRUCTURAL SHEATHING.

h. CORROSION-RESISTANT ROOFING NAILS w/ ⅜" DIAMETER HEAD AND 1 ½" LENGTH FOR ½" SHEATHING AND 1 ¾" LENGTH FOR ⅝" SHEATHING.

i. CORROSION-RESISTANT STAPLES WITH NOMINAL ⅜" CROWN OR 1" CROWN AND 1 ¼" LENGTH FOR ½" SHEATHING AND 1 ½" LENGTH FOR ⅝" SHEATHING. PANEL SUPPORTS @ 16" o/c(20" IF STRENGTH AXIS IS THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED.)

j. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2⅝"x0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF ⅜".

l. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" o/c AT EDGES, 8" o/c AT INTERMEDIATE SUPPORTS.

m. FASTENERS SPACED 4" o/c AT EDGES, 8" o/c AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" o/c AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.

n. FASTENERS SPACED 4" o/c AT EDGES, 8" AT INTERMEDIATE SUPPORTS.

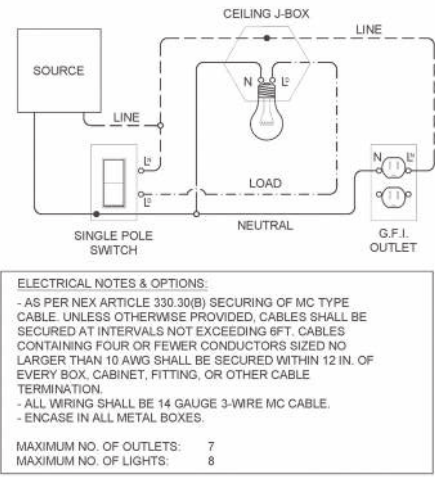
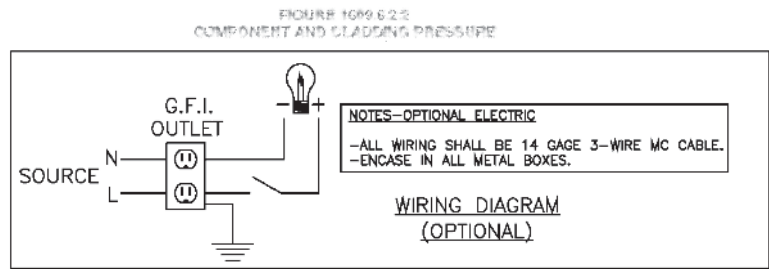
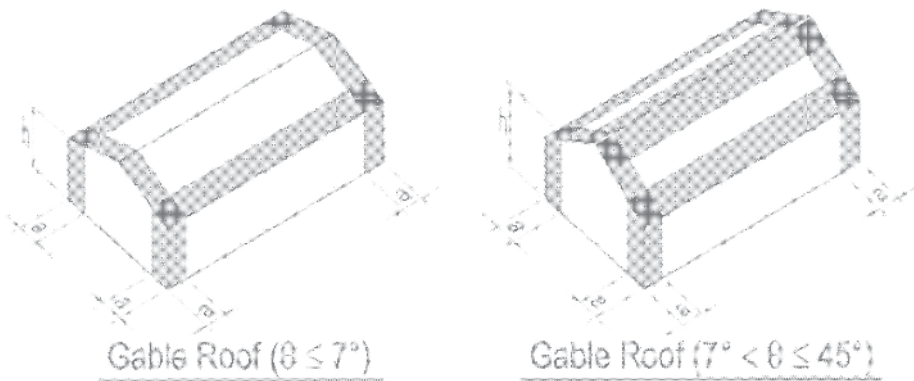
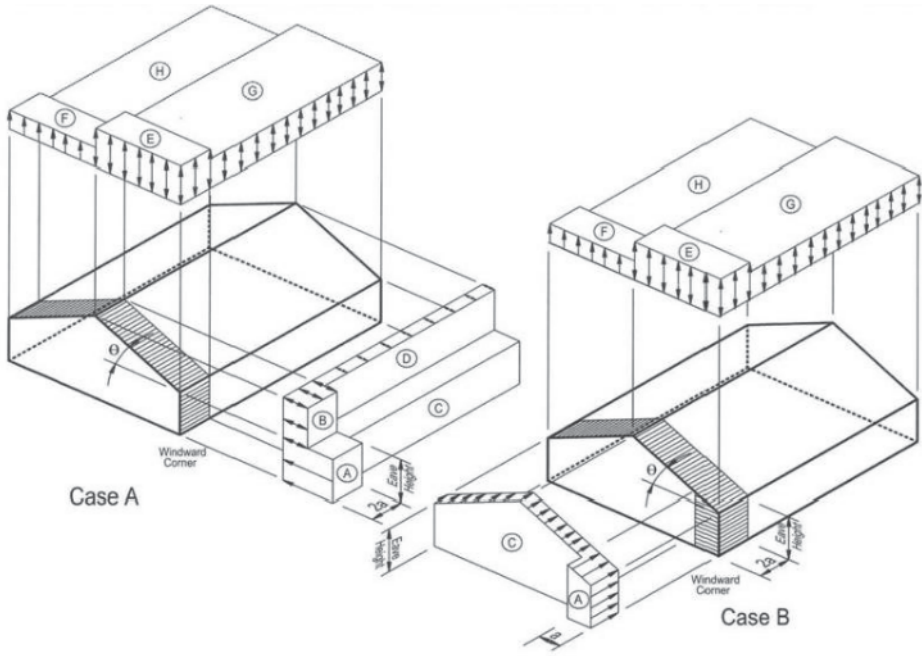
ELECTRICAL NOTES & OPTIONS:

- AS PER NEX ARTICLE 330.30(B) SECURING OF MC TYPE CABLE. UNLESS OTHERWISE PROVIDED, CABLES SHALL BE SECURED AT INTERVALS NOT EXCEEDING 6FT. CABLES CONTAINING FOUR OR FEWER CONDUCTORS SIZED NO LARGER THAN 10 AWG SHALL BE SECURED WITHIN 12 IN. OF EVERY BOX, CABINET, FITTING, OR OTHER CABLE TERMINATION.
- ALL WIRING SHALL BE 14 GAUGE 3-WIRE MC CABLE.
- ENCASE IN ALL METAL BOXES.

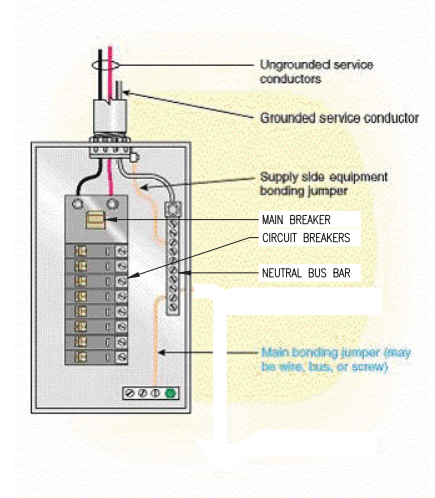
MAXIMUM NO. OF OUTLETS: 7
MAXIMUM NO. OF LIGHTS: 8

ELECTRICAL WIRING DIAGRAM
SCALE: NOT TO SCALE

NOTE: ALL RECEPTACLES TO BE GFCI PROTECTED



ELECTRICAL WIRING DIAGRAM
SCALE: NOT TO SCALE
NOTE: ALL RECEPTACLES TO BE GFCI PROTECTED



AREA FOR APPROVAL STAMPS

This document meets or exceeds the requirements of the State of Florida Manufactured Building Rules & Regulations 2022 CBC with the Latest Supplements
Consol. Type: V8
Issued: 11/11/2023
Approved Date: 2023-12-29
Ryan Kowales

OCALA FLORIDA SHOP
DBA FLORA-BAMA MFG
3082 NE 24TH STREET
OCALA FL 34470

PROJECT:
DELUXE LOFTED BARN

FASTENING SCHEDULE / WIND LOADING

DON VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER

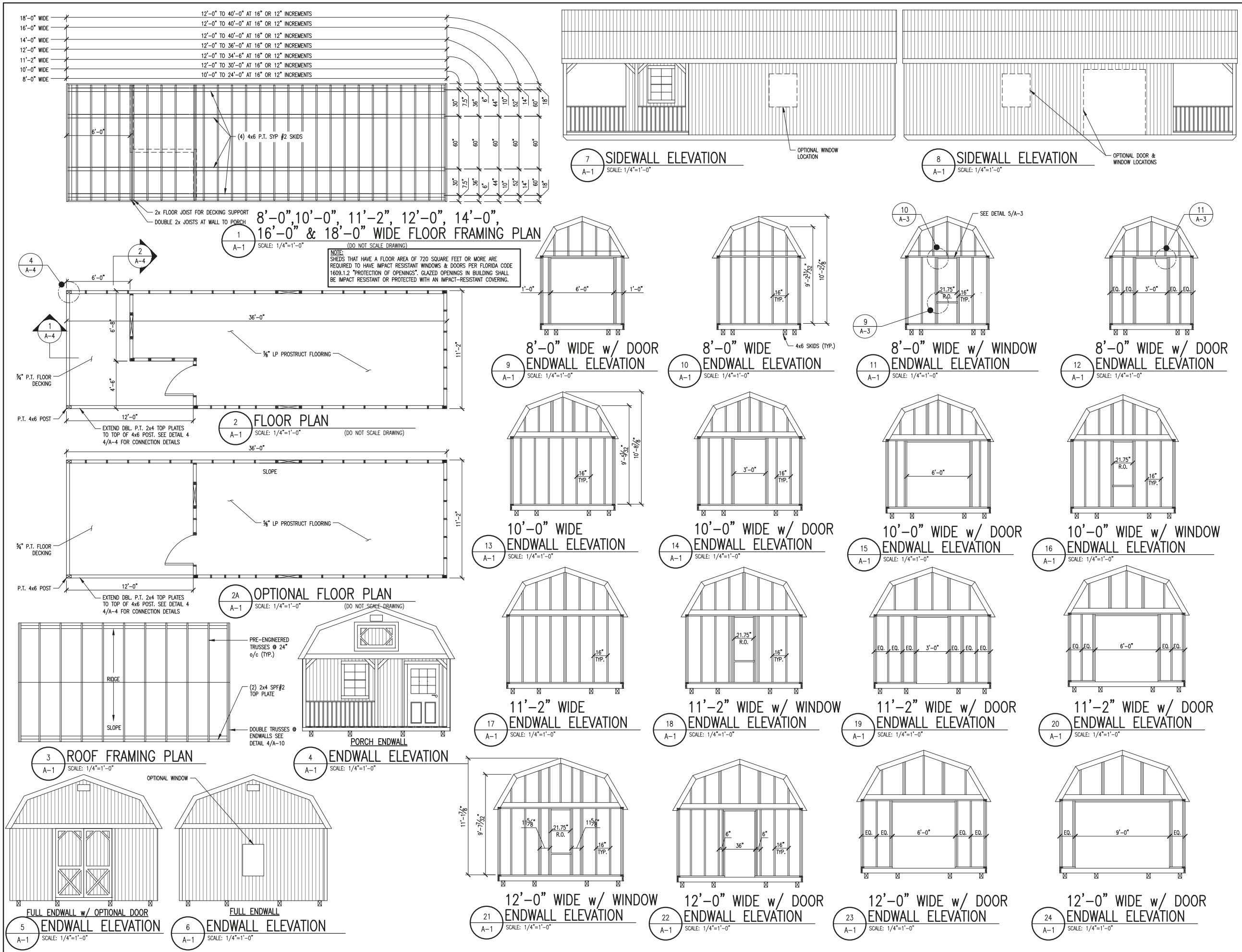
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SOUTH FULTON, TN 38257
WWW.PREMIERBUILDINGS.US

REVISION	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			

DATE: 11.13.23
PROJECT NO.: 20205
DRAWING BY: JH
CHK BY: DVG
DWG NO.: C-2

2 of 7



AREA FOR APPROVAL STAMPS



Innovative Architectural Testing
This document meets or exceeds the
Requirements of the State of Florida
Manufactured Building Rules & Regulations
2022 CBC with the Latest Supplements

Consult: Type VB
Occupancy: A
Allowed Floors: 1
Wind Speed: 140 mph
Wind Velocity: 170 mph
Plan & Section Label Sheet 23
Floor Load: 120 psf
Approval Date: 2023-12-29
Ryan Knowles

OCALA FLORIDA SHOP
DBA FLORA-BAMA MFG
3082 NE 24TH STREET
OCALA FL 34470

PROJECT:
DELUXE LOFTED BARN

FLOOR DECK FRAMING PLANS & DETAILS

DON VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER



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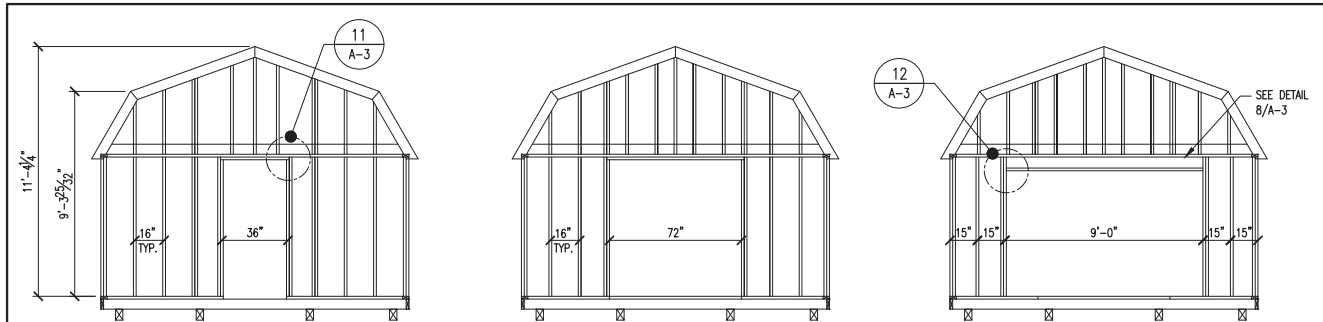
ENGINEERING SERVICES PROVIDED FOR:
PREMIER PORTABLE BUILDINGS
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SOUTH FULTON, TN 38257
WWW.PREMIERBUILDINGS.US

REVISION	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			

DATE: 11.13.23
PROJECT NO.: 20205
DRAWING BY: JH
CHK BY: DVG
DWG NO.:

A-1

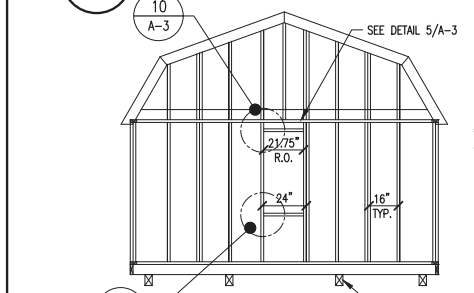




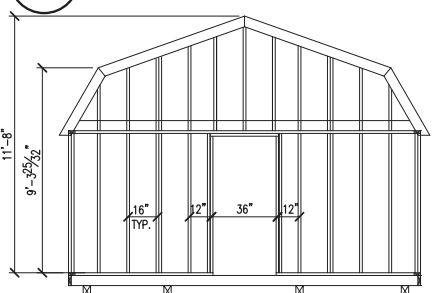
1
A-2
14'-0" WIDE w/ DOOR
ENDWALL ELEVATION
SCALE: 1/4"=1'-0"

2
A-2
14'-0" WIDE w/ DOOR
ENDWALL ELEVATION
SCALE: 1/4"=1'-0"

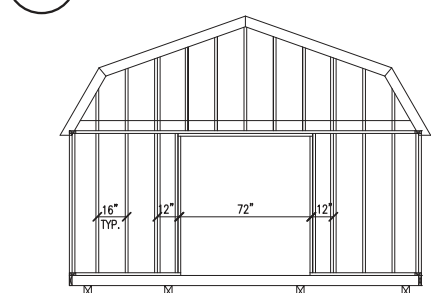
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A-2
14'-0" WIDE w/ DOOR
ENDWALL ELEVATION
SCALE: 1/4"=1'-0"



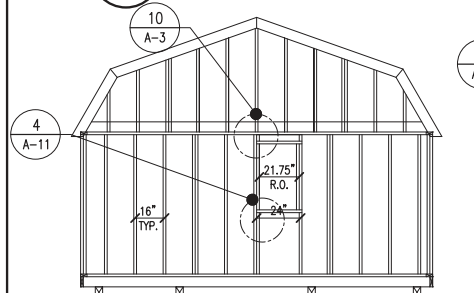
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A-2
14'-0" WIDE w/ WINDOW
ENDWALL ELEVATION
SCALE: 1/4"=1'-0"



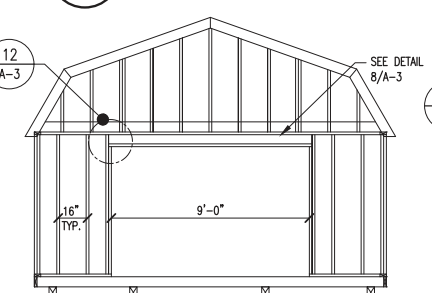
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A-2
16'-0" WIDE w/ DOOR
ENDWALL ELEVATION
SCALE: 1/4"=1'-0"



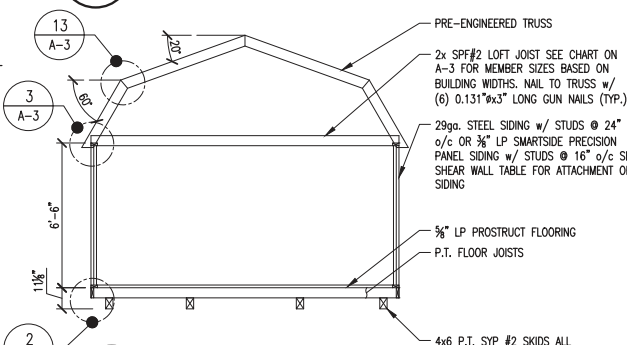
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A-2
16'-0" WIDE w/ DOOR
ENDWALL ELEVATION
SCALE: 1/4"=1'-0"



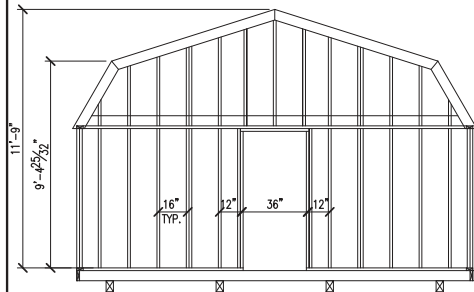
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A-2
16'-0" WIDE w/ WINDOW
ENDWALL ELEVATION
SCALE: 1/4"=1'-0"



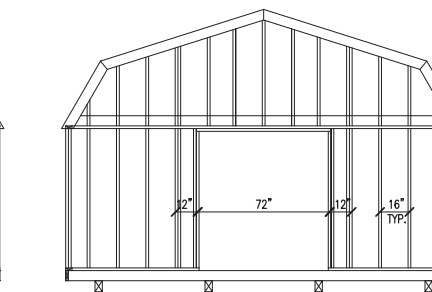
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A-2
16'-0" WIDE w/ DOOR
ENDWALL ELEVATION
SCALE: 1/4"=1'-0"



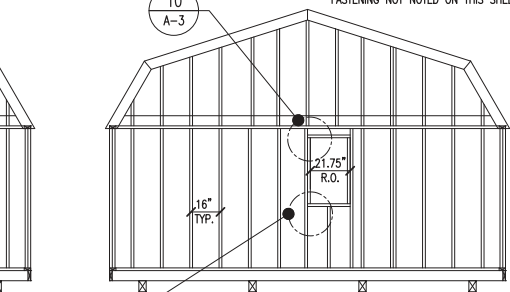
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A-2
SECTION
SCALE: 1/4"=1'-0"



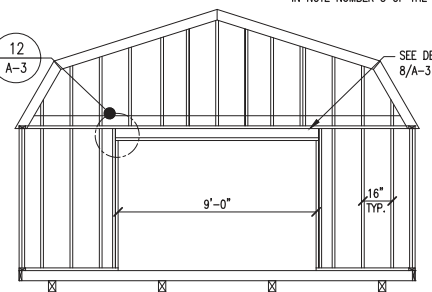
15
A-2
18'-0" WIDE w/ DOOR
ENDWALL ELEVATION
SCALE: 1/4"=1'-0"



16
A-2
18'-0" WIDE w/ DOOR
ENDWALL ELEVATION
SCALE: 1/4"=1'-0"



17
A-2
18'-0" WIDE w/ WINDOW
ENDWALL ELEVATION
SCALE: 1/4"=1'-0"



18
A-2
18'-0" WIDE w/ DOOR
ENDWALL ELEVATION
SCALE: 1/4"=1'-0"

BUILDING WIDTH	OPENING WIDTHS IN ENDWALL	MAX. LENGTH OF BUILDING		
		19 1/2" T1-11 ¹	3/8" LP SMARTSIDE PANEL ²	ALUMINUM OVER 3/8" OSB ⁴
8'-0"	3'-0" MAX.	24'-0"	24'-0"	24'-0"
	6'-0"	22'-0"	10'-0"	18'-0"
10'-0"	3'-0" MAX.	30'-0"	30'-0"	30'-0"
	6'-0"	30'-0"	20'-0"	30'-0"
11'-2"	3'-0" MAX.	32'-0"	32'-0"	32'-0"
	6'-0"	32'-0"	26'-0"	32'-0"
12'-0"	3'-0" MAX.	36'-0"	36'-0"	36'-0"
	6'-0"	32'-0"	30'-0"	36'-0"
14'-0"	3'-0" MAX.	40'-0"	40'-0"	40'-0"
	6'-0"	40'-0"	24'-0"	40'-0"
16'-0"	3'-0" MAX.	40'-0"	40'-0"	40'-0"
	6'-0"	40'-0"	34'-0"	40'-0"

BUILDING WIDTH	JOIST CHART	
	SINGLE JOIST MEMBER SIZE	DOUBLE JOIST MEMBER SIZE
8'-0"	2x6	2x4
10'-0"	2x6	2x6
11'-2"	2x8	2x6
12'-0"	2x8	2x6
14'-0"	2x10	2x8
16'-0"	2x10	2x8

1. 19 1/2" T1-11 SHALL BE FASTENED USING 8d COMMON OR DEFORMED NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES.
2. 3/8" LP SMARTSIDE PANEL SHALL BE FASTENED USING 8d COMMON OR DEFORMED NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES.
3. LIMITATIONS ON THE TOTAL OPENING DIMENSIONS SHALL BE BASED ON THE SHEAR WALL HEIGHT TO WIDTH RATION OF 3.5:1 AND SHALL NOT EXCEED (3/4) OF TOTAL LENGTH OF BUILDING. NAILING IN SIDEWALL USE 8d NAILS COMMON OR DEFORMED AT 6" EVERYWHERE WHEN TOTAL OPENING WIDTHS IN SIDE WALL ARE LESS THAN (3/4) OF TOTAL LENGTH OF BUILDING.
4. 29ga. STEEL SIDING OVER 3/8" OSB FASTENED USING 8d COMMON OR DEFORMED NAILS @ 6" o/c IN FIELD AND 3" o/c ALONG ALL PANEL EDGES.



OCALA FLORIDA SHOP
DBA FLORA-BAMA MFG
3082 NE 24TH STREET
OCALA FL 34470

PROJECT:
DELUXE LOFTED BARN

SECTIONS & DETAILS

DON VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER

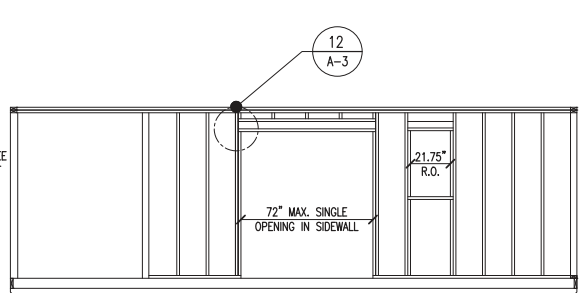


ENGINEERING SERVICES PROVIDED FOR:
PREMIER PORTABLE BUILDINGS
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SOUTH FULTON, TN 38257
WWW.PREMIERBUILDINGS.US

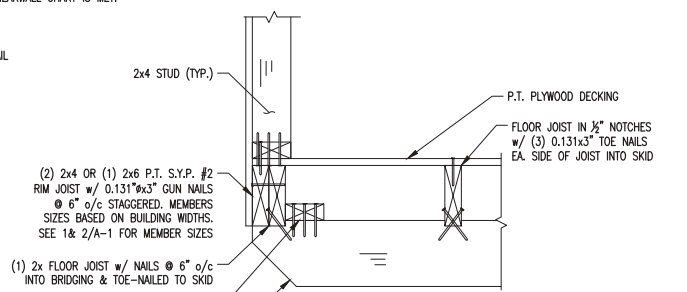
REVISION	DESCRIPTION	DATE	BY
1			
2			
3			
4			

DATE: 11.13.23
PROJECT NO.: 20205
DRAWING BY: JH
CHK BY: DVG
DWG NO.:

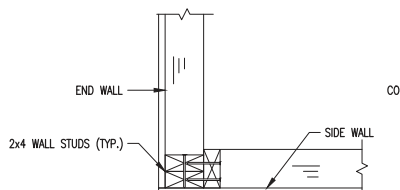
A-2



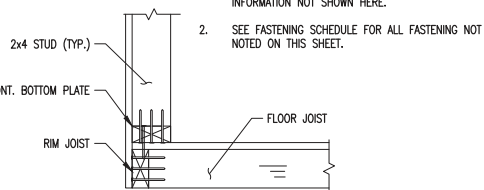
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A-2
SIDEWALL FRAMING
SCALE: 1/4"=1'-0"



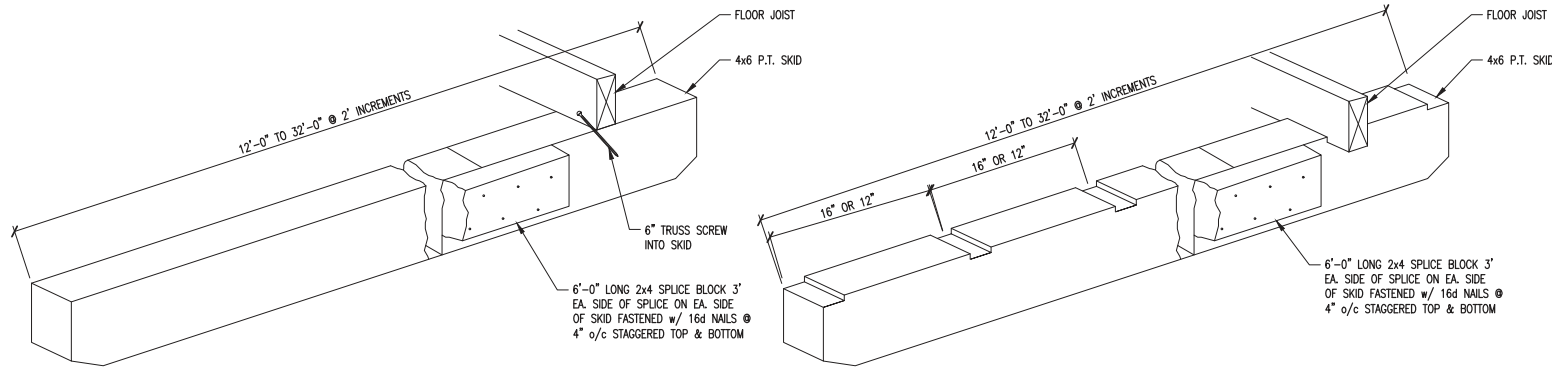
12
A-2
SKID TO JOIST DETAIL
SCALE: 1-1/2"=1'-0"



13
A-2
CORNER CONNECTION DETAIL
SCALE: 1-1/2"=1'-0"

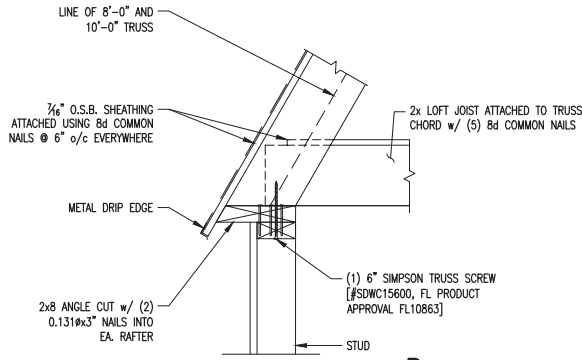


14
A-2
WALL TO RIM JOIST
SCALE: 1-1/2"=1'-0"

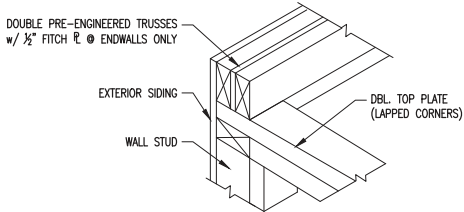


1
A-3
OPTIONAL BLDG. SKID
ISOMETRIC DETAIL
SCALE: N.T.S.

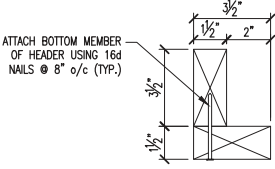
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A-3
BLDG. SKID
ISOMETRIC DETAIL
SCALE: N.T.S.



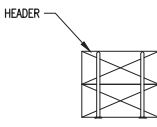
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A-3
OPTIONAL TOP R
CONNECTION DETAIL
SCALE: 1-1/2"=1'-0"



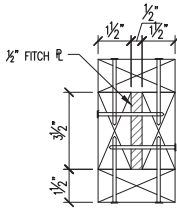
4
A-3
DOUBLE
TRUSS DETAIL
SCALE: 1-1/2"=1'-0"



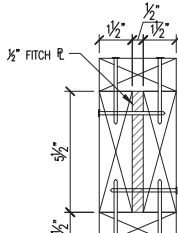
5
A-3
WINDOW
HEADER DETAIL
SCALE: 3"=1'-0"



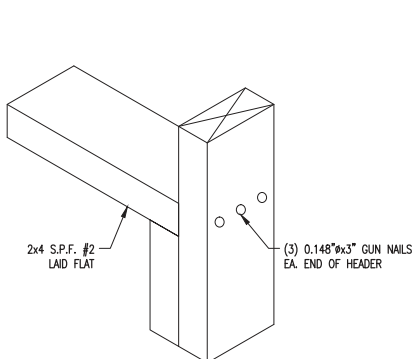
6
A-3
DOOR
HEADER DETAIL
SCALE: 3"=1'-0"



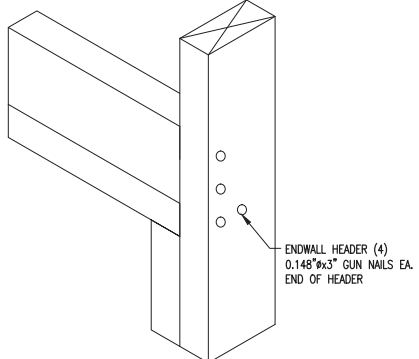
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A-3
DOOR
HEADER DETAIL
SCALE: 3"=1'-0"



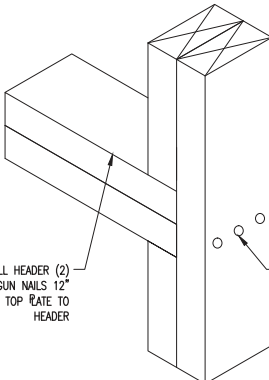
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A-3
DOOR
HEADER DETAIL
SCALE: 3"=1'-0"



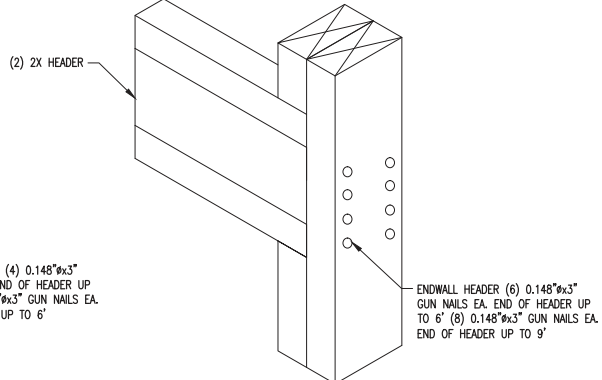
9
A-3
WINDOW
SILL DETAIL
SCALE: N.T.S.



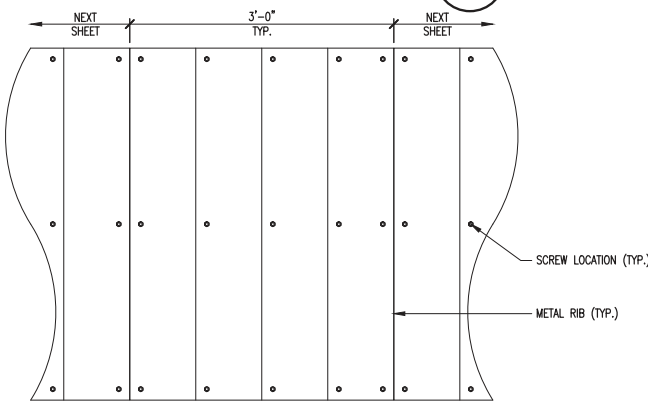
10
A-3
WINDOW HEADER
WITHOUT STRAP DETAIL
SCALE: N.T.S.



11
A-3
ENDWALL
HEADER DETAIL
SCALE: N.T.S.



12
A-3
HEADER DETAIL
SCALE: N.T.S.



14
A-3
METAL ROOFING SCREW PATTERN
SCALE: 1"=1'-0"

LOFT JOIST CHART		
BUILDING WIDTH	SINGLE JOIST MEMBER SIZE	DOUBLE JOIST MEMBER SIZE
8'-0"	2x6	2x4
10'-0"	2x6	2x6
11'-2"	2x8	2x6
12'-0"	2x8	2x6
14'-0"	2x10	2x8
16'-0"	2x10	2x8

AREA FOR APPROVAL STAMPS

INTEGRITY-AT (Architectural Testing)
This document meets or exceeds the
Requirements of the State of Florida
Manufactured Building Rules & Regulations
2022-24, with the Latest Supplements
Cons. Type: V8
Occupancy: B
Allowed Floors: 1
Fire Rating for Walls: 0 hrs.
Wind Velocity: 170 mph
Plan & Section Label Sheet 23
Floor Load: 125
Approval Date: 2023-12-29
Ryan Knowles

OCALA FLORIDA SHOP
DBA FLORA-BAMA MFG
3082 NE 24TH STREET
OCALA FL 34470

PROJECT:
DELUXE LOFTED BARN

TYPICAL DETAILS

DON VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER

ADS ALTERNATE DESIGN SOLUTIONS
STRUCTURAL, ENGINEERING, DESIGN & CONSTRUCTION SERVICES
PHONE: 215.355.4884
WWW.ALTERNATEDESIGNSOLUTIONS.COM

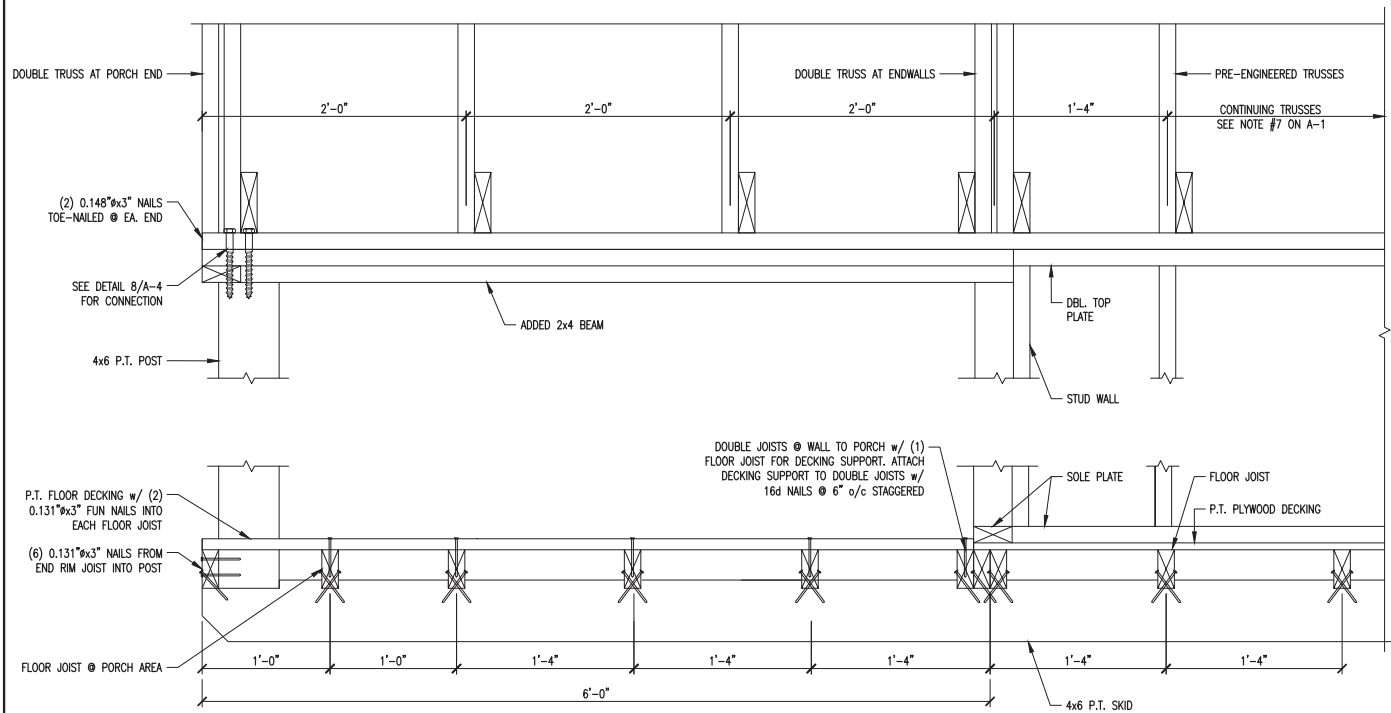
ENGINEERING SERVICES PROVIDED FOR:
PREMIER PORTABLE BUILDINGS
317 EAST STATE LINE ROAD
SOUTH FULTON, TN 38257
WWW.PREMIERBUILDINGS.US

REVISION	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			

DATE: 11.13.23
PROJECT NO.: 20205
DRAWING BY: JH
CHK BY: DVG
DWG NO.:

A-3

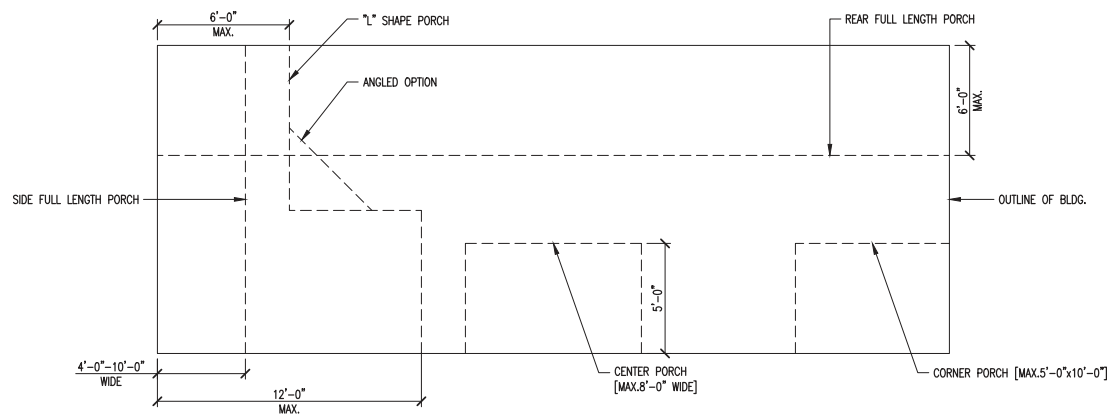




1
A-4

PORCH SECTION DETAIL

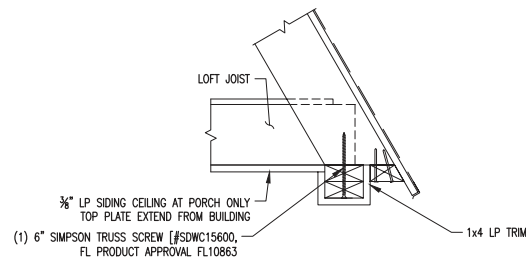
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5
A-4

BUILDING PORCH OPTIONS

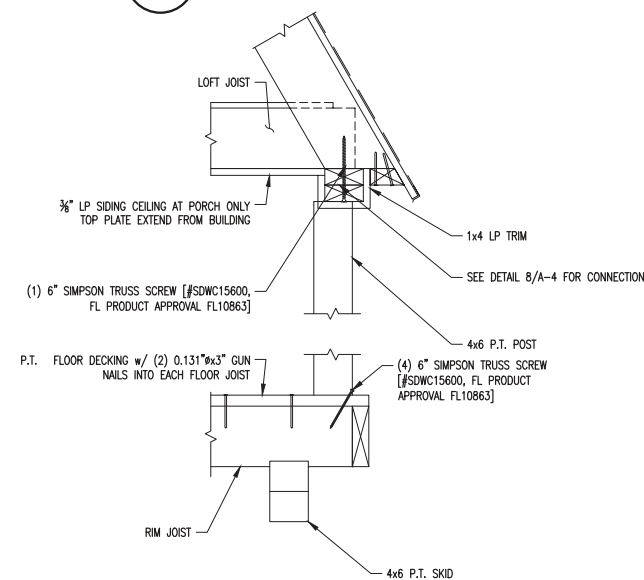
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2
A-4

PORCH TOP PLATE DETAIL

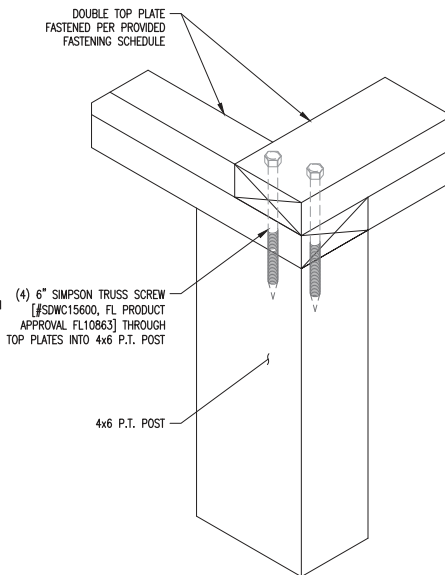
SCALE: 1-1/2"=1'-0"



3
A-4

POST TO RIM JOIST DETAIL

SCALE: 1-1/2"=1'-0"



4
A-4

PORCH POST TO TOP PLATE DETAIL

SCALE: N.T.S.

AREA FOR APPROVAL STAMPS

Intertek-ATI (Architectural Testing)
This document meets or exceeds the
Requirements of the State of Florida
Manufactured Building Rules & Regulations
2022 CBC with the Latest Supplements
Code: Type VB
Grouping: M
Allowed Floors: 1
File Rating for Walls: 0 hrs.
Wind Velocity: 170 mph
Plan #: Double Label Sheet 23
Floor Load: 125 psf
Approval Date: 2023-12-29
Ryan Knevels
Ryan Knevels

OCALA FLORIDA SHOP
DBA FLORA-BAMA MFG
3082 NE 24TH STREET
OCALA FL 34470

PROJECT:
DELUXE LOFTED BARN

PORCH SECTIONS & DETAILS

DON VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER

ADS ALTERNATE DESIGN SOLUTIONS
STRUCTURAL ENGINEERING DESIGN & CONSTRUCTION SERVICES
PHONE: 215.355.4884
WWW.ALTERNATEDESIGNSOLUTIONS.COM

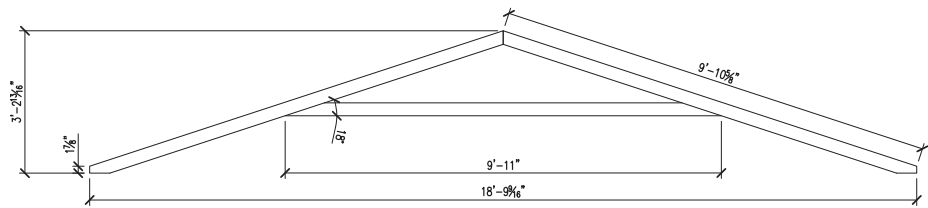
ENGINEERING SERVICES PROVIDED FOR:
PREMIER PORTABLE BUILDINGS
317 EAST STATE LINE ROAD
SOUTH FULTON, TN 38257
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REVISION	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			

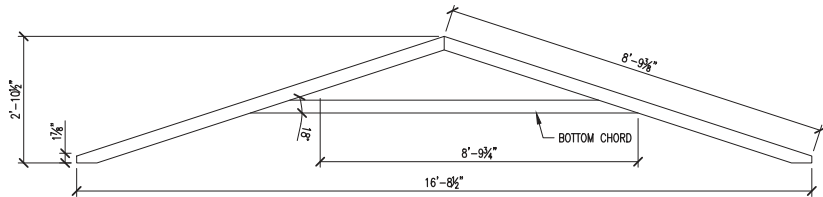
DATE: 11.13.23
PROJECT NO.: 20205
DRAWING BY: JH
CHK BY: DVG
DWG NO.:

A-4

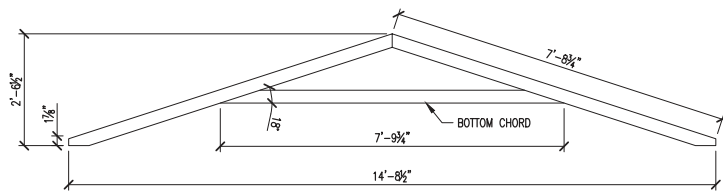




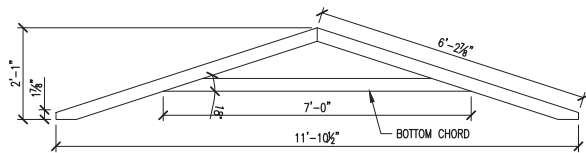
18' UTILITY TRUSS



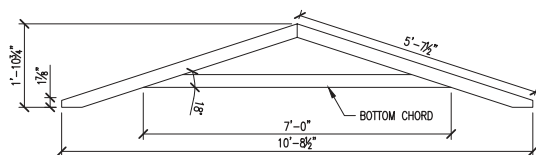
16' UTILITY TRUSS



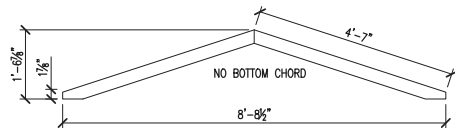
14' UTILITY TRUSS



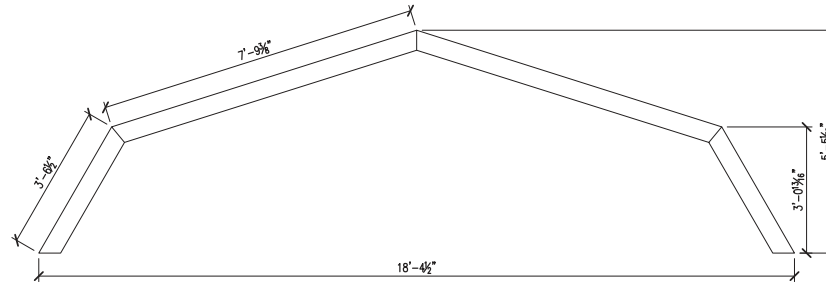
12' UTILITY TRUSS



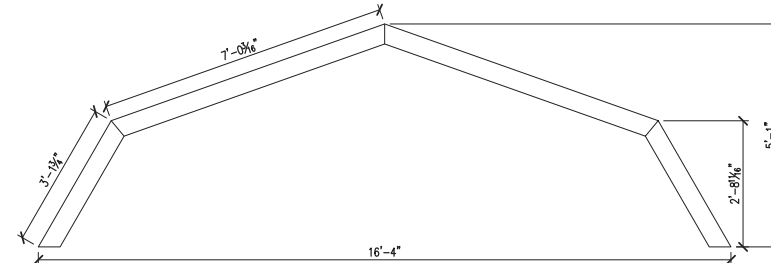
10' UTILITY TRUSS



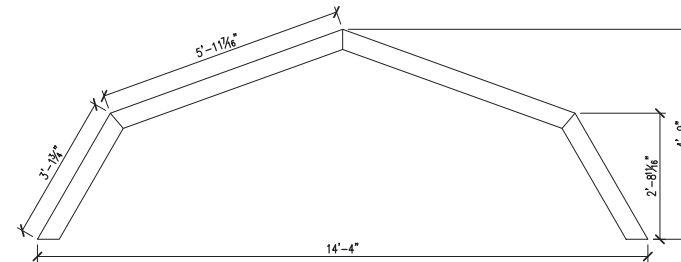
8' UTILITY TRUSS



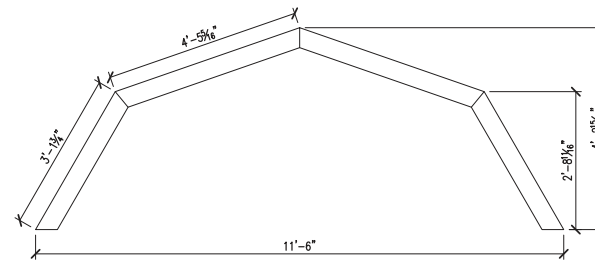
18' LOFTED TRUSS



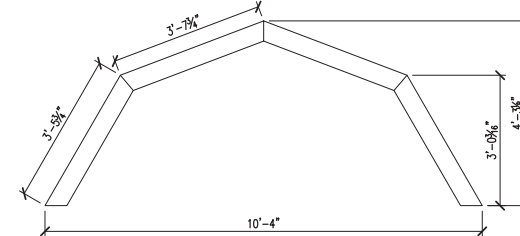
16' LOFTED TRUSS



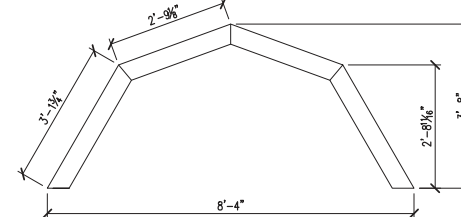
14' LOFTED TRUSS



12' LOFTED TRUSS



10' LOFTED TRUSS



8' LOFTED TRUSS

TRUSS DESIGN: LRFD max Wind ASCE 7-16
figure 28.5-1 61.7 psf uplift (180 mph wind);

Utility: Lmax=5.25 ft. 2x4@24"; w=123.4 plf
M=wL^2/8x12=5102in-lb; S=3.06in^3; fb=1667 psi
Fb(LRFD)=3000psi - this value to be met by lumber.

Lofted: Lmax=7.76ft; 18' truss @ 16" o/c; w=82plf;
M=7412in-k; fb=2422psi < 3000 psi LRFD.

Wall Calcs: 5/8" LP nailed 6 edges 10 interior, 2x4x7ft @ 16" o/c;
Pressure=.85(.57 exp B)(.00256)(180^2)=40psf.

add 18% interior gust factor = 48 psf (LRFD).
i=18.74in^4 per 16"; S=6.03 in^3.

convert to ASD with 0.6 factor:
M=(48)(1.33)(.6)(7^2)/8(12in/ft)=2815in-lbs;
fb=467psi<1000psi OK

AREA FOR APPROVAL STAMPS



OCALA FLORIDA SHOP
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3082 NE 24TH STREET
OCALA FL 34470

PROJECT:
DELUXE LOFTED BARN

PORCH SECTIONS & DETAILS

DON VAN GERVE, P.E.
SPECIALTY STRUCTURAL ENGINEER



ENGINEERING SERVICES PROVIDED FOR:
PREMIER PORTABLE BUILDINGS
317 EAST STATE LINE ROAD
SOUTH FULTON, TN 38257
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REVISION	DESCRIPTION	DATE	BY
1			
2			
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5			

DATE: 11.13.23
PROJECT NO.: 20205
DRAWING BY: JH
CHK BY: DVG
DWG NO.:

A-5

