LEONARD BUILDINGS

DBA COOK PORTABLE WAREHOUSES
100 DOUGLAS ST., VALDOSTA, GA 31601
132 CENTRAL INDUSTRIAL ROW, PURVIS, MS 39475
1398 HWY 95 NORTH, BASTROP, TX 78602

GEORGIA REGISTERED PE029466 PROFESSIONAL ENGINEER KENT M. BICE

LEAN-TO SHED

STATE OF GEORGIA, ALABAMA, MISSISSIPPI LOUISIANA & SOUTH CAROLINA

Design Criteria	
BUILDING CODE	2021 INTERNATIONAL BUILDING CODE ASCE 7-22
ELECTRICAL CODE	2020 NEC, NFPA70
BUILDING TYPE	RESIDENTIAL LAWN STORAGE SHED
MANUFACTURER	LEONARD BUILDINGS
AGENCY	TOP LINE ENGINEERING
AGENCY PLAN NUMBER	LEAN-TO 2021 IBC
CONSTRUCTION TYPE	V-B
FIRE PROTECTION	B
FIRE SUPPRESSION SYSTEM	NO
OCCUPANCY	U - UTILITY
NUMBER OF OCCUPANTS	0
ALLOWABLE # OF STORIES	1
WIND INFORMATION	160 MPH ULTIMATE; EXPOSURE C, CATEGORY I; ENCLOSED; +/- 0.18 INTERNAL PRESSURE COEFFICIENT; 15' HEIGHT
FLOOR LIVE LOAD	40.0 PSF
FLOOR DEAD LOAD	4.0 PSF
ROOF LIVE LOAD	20.0 PSF
ROOF DEAD LOAD	7.0 PSF
WALL DEAD LOAD	3.0 PSF
UNINHABITED LOFT LIVE LOAD	0.0 PSF
GROUND SNOW LOAD	30.0 PSF
FIRE RATING OF EXTERIOR WALLS	0
"R" RATING OF FLOOR, WALL, AND ROOF	R-0, R-0, R-0
MODULES PER BUILDING	1
SQUARE FOOTAGE	LESS THAN 719 SQ. FT.
EXEMPT FROM ENERGY CONSERVATION CODE?	YES
APPROVED FOR HURRICANE PROTECTION USAGE?	NO
DESIGNED FOR HURRICANE PUBLIC SHELTER?	NO

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 JURISDICTION APPROVAL.

1. THE COMPLETE FOUNDATION SUPPORTING AND TIE-DOWN SYSTEM.
2. RAMPS, STAIRS, AND GENERAL ACCESS TO THE BUILDING IF NECESSARY.
3. GUTTERS AND DOWN SPOUTS ON ALL BUILDINGS WITH EAVES OF LESS THAN 6 INCHES HORIZONTAL PROJECTION EXCEPT FOR GABLE END RAKES.

OCCUPANCY NOTE:

THIS BUILDING IS NOT DESIGNED FOR HUMAN HABITATION AND DOES NOT HAVE RUNNING WATER OR SANITATION SERVICES. THIS BUILDING IS DESIGNED AS A UTILITY SHED TO STORE LAWN EQUIPMENT SUCH AS WHEEL BARROWS, GARDENING SUPPLIES, FLOWER POTS, AND CARDBOARD BOXES WITH VARIOUS SMALL ITEMS.

NOTE:
FLOOD VENTS TO BE INSTALLED ON SITE BY OTHERS.

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S-8	SHORT SIDE WALL ELEVATIONS
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S-10	DETAILS
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ALABAMA LICENSED NO. 23437 PROFESSIONAL ENGINEER KENT M. BICE

KENT M. BICE REGISTERED PROFESSIONAL ENGINEER 16399 STATE OF MISSISSIPPI

STATE OF LOUISIANA KENT M. BICE License No. 33247 PROFESSIONAL ENGINEER

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 15831 KENT M. BICE

11/14/25

1552 6TH ST., WINTER HAVEN, FL 33880
(863)865-6502

THESE PLANS WERE DESIGNED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE ASCE 7-22.

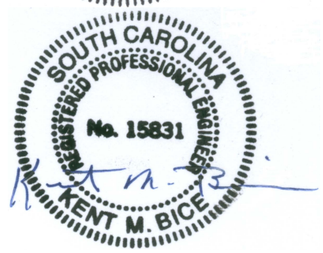
COVER SHEET

DATE: 04/12/18	DRAWN BY: RD
SCALE: AS NOTED	CHECKED BY: KMB

SHEET: S-1

GENERAL NOTES:

1. THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE ASCE 7-22, (2021 IBC).
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 AT 2' 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)-FLOOR JOISTS, PLYWOOD FLOOR DECKING, AND EXTERIOR RATED WOOD STRUCTURAL PANEL SIDING.
8. ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED (G185) OR STAINLESS STEEL.
9. ALL WINDOWS WITHIN 24" OF DOORS, AND ALL GLASS IN DOORS SHALL BE SAFETY, TEMPERED, OR ACRYLIC PLASTIC SHEET.
10. 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 2021 IBC OR PER SHINGLE MANUFACTURER INSTRUCTIONS.
11. UNDERLAYMENT SHALL CONFORM WITH SECTION 1507.2.3 OF THE 2021 IBC OR PER SHINGLE MANUFACTURER INSTRUCTIONS.
12. ASPHALT SHINGLES SHALL CONFORM WITH SECTION 1507.2.5 OF THE 2021 IBC ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH 1507.2.7 OF THE 2021 IBC.
13. FASTENERS FOR ASPHALT SHINGLES SHALL CONFORM TO SECTION 1507.2.6 OF THE 2021 IBC.
14. TIE-DOWNS SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE CODES.
15. THESE PLANS HAVE NOT BEEN DESIGNED FOR HVHZ REQUIREMENTS AS SET FORTH IN THE 2021 IBC OR FOR USE AS A COMMERCIAL BUILDING.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY AND PLACEMENT OF LAWN STORAGE UNIT TO ENSURE THE INTEGRITY OF THE BUILDING AND ITS COMPONENT PARTS.
18. NO FIELD REVISIONS TO ANY STRUCTURAL COMPONENTS OR DEVIATIONS FROM THESE DRAWINGS SHALL BE MADE.
19. 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 ERRORS OR OMISSIONS IN THE PERFORMANCE OF THE WORK BY THE CONTRACTOR.
20. SECTIONS AND DETAILS ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY AT ALL SIMILAR LOCATIONS, UNLESS OTHER SECTIONS AND DETAILS ARE SPECIFICALLY REFERENCED.
21. REFER TO SUPPLIED FASTENING SCHEDULE FOR FASTENING BASED ON CONNECTION AND LOCATION OF MEMBERS AS PER 2021 IBC TABLE 2304.10.1 UNLESS NOTED OTHERWISE.
22. BUILDINGS HAVE BEEN DESIGNED FOR LP SMARTSIDE STRAND SUBSTRATE PANEL SIDING, LP SMARTSIDE PRECISION LAP SIDING SHALL BE USED WITH X-STRAPS OR STRUCTURAL SHEATHING AS DETAILED IN THIS PLAN SET
23. FASTENERS IN LP SMARTSIDE STRAND SUBSTRATE 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.
24. REFER TO THE ICC-ES EVALUATION REPORT ESR-1301 / 3090 FOR ADDITIONAL DATA AND SPECIFICATIONS OF LP SMARTSIDE STRAND SUBSTRATE PANEL / LAP SIDING.
25. MAX OPENINGS WIDTHS MUST COMPLY WITH DESIGN RATIOS AS PER ANSI/AF&PA SDPWS-2015. BUILDINGS HAVE BEEN DESIGNED TO HAVE ONLY OPENINGS WITH MAX WIDTHS AS DETAILED IN THIS PLAN SET.
26. PER SECTION 1609.1.2 OF THE 2021 IBC, STORAGE SHEDS THAT ARE NOT DESIGNED FOR HUMAN HABITATION AND THAT HAVE A FLOOR AREA OF 719 SQUARE FEET OR LESS ARE NOT REQUIRED TO COMPLY WITH THE MANDATORY WIND-BORNE-DEBRIS-IMPACT STANDARDS OF THE 2021 IBC.
27. BUILDINGS HAVE BEEN DESIGNED TO HAVE ANCHORS DIRECTLY ATTACHED TO ALL FOUR CORNERS OF THE BUILDING TO RESIST TENSION FORCES FROM LATERAL WIND LOADS. THIS DESIGN CONSIDERATION MUST BE MADE BY INSTALLER WHEN ATTACHING ANCHORING SYSTEM TO BUILDING.
28. UNLESS NOTED OTHERWISE, ATTACH ALL MANUFACTURED PRODUCTS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
29. 2X4 SP #2 PRESSURE TREATED LUMBER SHALL BE SUBSTITUTED FOR 2X4 SPF #2 LUMBER IN WALLS FOR USE IN FLOOD PLAINS.
30. PER APA PRODUCT REPORT PR-N124, LP SMARTSIDE STRAND SUBSTRATE SERIES TREATED-ENGINEERED-WOOD PANEL AND LAP SIDING IS PERMITTED ON WALLS FOR USE IN FLOOD PLAINS.
31. 19/32" LP PROSTRUCT FLOORING WITH SMARTFINISH IS PERMITTED IN LIEU OF 5/8" APA RATED STRUCTURAL SHEATHING ON FLOOR. INSTALL PER MANUFACTURER INSTRUCTIONS.
32. BUILDINGS ARE APPROVED FOR RESIDENTIAL LAWN STORAGE ONLY.
33. THIS BUILDING IS EXEMPT FROM THE FECC PER SECTIONS R101.4.2.4, R402.1. EXCEPTION 1.2
34. IN ACCORDANCE WITH FLORIDA ADMINISTRATIVE CODE RULE 61-41.009, PHOTOCOPIES OF APPROVED PLANS SHALL BE SUFFICIENT FOR LOCAL PERMIT APPLICATION DOCUMENTS OF RECORD FOR THE MODULAR BUILDING PORTION OF THE PERMITTED PROJECT.
35. METAL FLAT STRAPS ARE TO BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. FLAT METAL STRAPS CAN BE BENT AROUND STRUCTURAL MEMBERS, WALL STUDS, TRUSSES, CHORDS, ETC. TO HELP SECURE THESE MEMBERS, PROVIDED THAT THE ADDED BEND DOES NOT INTERFERE WITH ANY OF THE EXISTING BREAKS/BENDS IN THE STRAP PER THE MANUFACTURER'S SPECIFICATIONS.
36. HVHZ COMPONENTS UTILIZED FOR SHEDS REQUIRE THAT INSTALLATION SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
37. FOUNDATION PLANS ARE NOT PART OF THIS PLAN SET AND ARE GOVERNED BY LOCAL JURISDICTION.
38. REFER TO TIE DOWN DETAILS FOR PROPER INSTALLATION REQUIREMENTS TO MEET CODE.
39. GUTTERS SHALL BE SITE INSTALLED AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION AND SHALL COMPLY WITH LOCAL REQUIREMENTS FOR PERMITTING.
40. SHEDS LOCATED IN FLOOD HAZARD AREAS MUST COMPLY WITH THE LOCAL FLOOD ZONE REGULATIONS.
41. IF A WALL IS FRAMED FOR FUTURE HVAC UNITS, UNIT INSTALLATION SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION AND SHALL COMPLY WITH LOCAL REQUIREMENTS FOR PERMITTING.
42. WINDOWS AND DOORS INSTALLED BY THE CUSTOMER SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION AND SHALL COMPLY WITH LOCAL REQUIREMENTS FOR PERMITTING.



11/14/25

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GENERAL NOTES

DATE: 04/12/18	DRAWN BY: RD
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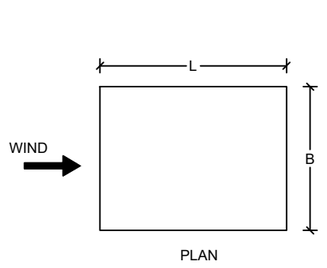
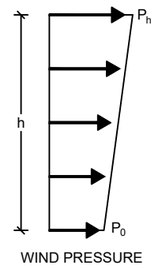
SHEET: S-2

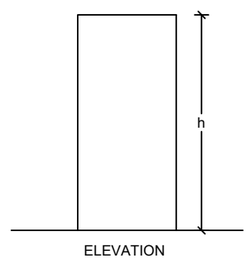
BUILDING DATA ASCE 7-22 WIND

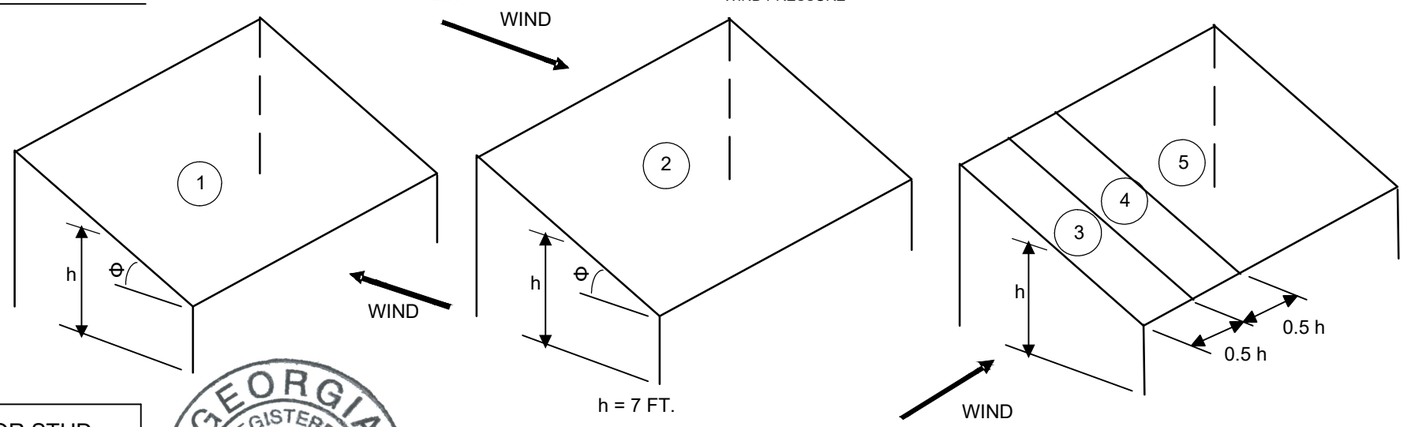
WIND VELOCITY V_{ULT}	160 MPH	INTERNAL PRESSURE COEFFICIENT (ENCLOSED BUILDING ASCE **7-22**)	± 0.18
WIND VELOCITY V_{ASD}	124		
BUILDING CATEGORY	I	HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT	1.0
		ROOF DEAD LOAD RESISTING UPLIFT (PSF)	7.0
ROOF ANGLE, ° (DEGREES)	9 DEGREES		
		MEAN ROOF HEIGHT	15
WIND EXPOSURE CATEGORY	C		

NOTES:
1. FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
3. PRESSURES SHOWN ARE APPLIED NORMAL TO THE SURFACE.
4. REFER TO PRESSURE ZONE DIAGRAMS PROVIDED FOR CORRESPONDING ZONES.
5. ROOF COVERINGS, FINISHES, ETC SHALL BE DESIGNED FOR THE FULL NEGATIVE DESIGN PRESSURE.









MWFRS - WALL

WIND ON	L (FT)	B (FT)	L/B	PO = Ph, PSF	PRESSURE FOR DIAPHRAGM DESIGN, PSF		PRESSURE FOR STUD DESIGN, PSF	
					WINDWARD, W_W	LEEWARD, W_l	WINDWARD, W_W	LEEWARD, W_l
SHORT WALL	12	6	2	46.6	34.0	12.6	42.5	21.1
LONG WALL	6	12	0.5	53.7	33.3	20.4	41.8	28.9

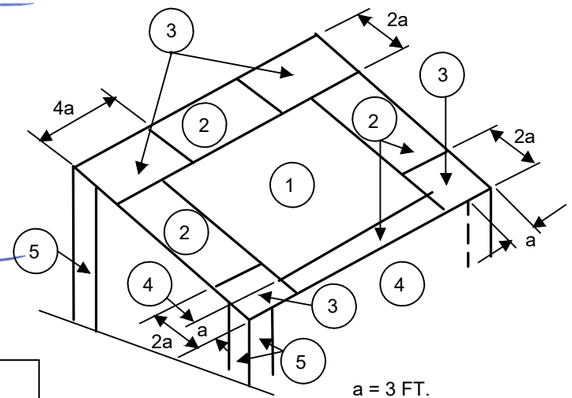
MWFRS - ROOF

LOAD CASE	THETA (DEG)	WIND PRESSURE ON ROOF ZONE, PSF				
		WIND ON LONG WALL		WIND ON SHORT WALL		
		1	2	3	4	5
LOAD CASE 1	9.46	0.0	0.0	-50.1	-44.7	-36.6
	14	-49.2	-35.4	-50.1	-44.7	-36.6
	12	-27.5	-19.8	-50.1	-44.7	-36.6
LOAD CASE 2	9.46	0.0	0.0	0.0	0.0	0.0
	14	7.1	-10.0	0.0	0.0	0.0
	12	4.0	-5.6	0.0	0.0	0.0

COMPONENTS & CLADDING

EFFECTIVE WIND AREA (SQ. FT.)	P_S, (PSF) - C&C - TABLE 30.7-2									
	UNADJUSTED, P_{TABLE}									
	ROOF						WALL			
	INTERIOR ZONE 1		END ZONE 2		CORNER ZONE 3		INTERIOR ZONE 4		END ZONE 5	
	+	-	+	-	+	-	+	-	+	-
10	19	-55	19	-74	19	-125	45	-48	45	-73
	ADJUSTED, P_{TABLE}									
	19	-55	19	-74	19	-125	45	-48	45	-73

WIND LOAD MAIN WIND FORCE PRESSURE DIAGRAMS



WIND LOAD COMPONENT AND CLADDING PRESSURE DIAGRAM

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WIND LOAD TABLES

DATE: 04/12/18	DRAWN BY: RD
SCALE: AS NOTED	CHECKED BY: KMB

SHEET: S-3

FASTENING SCHEDULE

CONNECTION	FASTENING[a, k]	LOCATION
1. JOIST TO SILL OR GIRDER	3 - 8d COMMON (2½" X 0.131") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	TOENAIL
2. BRIDGING TO JOIST	2 - 8d COMMON (2½" X 0.131") 2 - 3" X 0.131" NAILS 2 - 3", 14 GAGE STAPLES	TOENAIL EACH END
3. SOLE PLATE TO JOIST OR BLOCKING	16d (3½" X 0.135") AT 12" O.C. 3" X 0.131" NAILS AT 12" O.C. 3", 14 GAGE STAPLES AT 12" O.C.	FACE NAIL
4. SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3 - 16d (3½" X 0.135") AT 16" O.C. 4 - 3" X 0.131" NAILS AT 16" O.C. 4 - 3", 14 GAGE STAPLES AT 16" O.C.	FACE NAIL
5. TOP PLATE TO STUD	2 - 16d (3½" X 0.162") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	END NAIL
6. STUD TO SOLE PLATE	4 - 8d COMMON (2½" X 0.131") 4 - 3" X 0.131" NAILS 4 - 3", 14 GAGE STAPLES	TOENAIL
	2 - 16d COMMON (3½" X 0.162") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	END NAIL
7. DOUBLE STUDS	16d (3½" X 0.162") AT 24" O.C. 3" X 0.131" NAILS AT 16" O.C. 3", 14 GAGE STAPLES AT 16" O.C.	FACE NAIL
8. TOP PLATE TO TOP PLATE	16d (3½" X 0.162") AT 16" O.C. 3" X 0.131" NAILS AT 12" O.C. 3", 14 GAGE STAPLES AT 12" O.C.	FACE NAIL
	8 - 16d COMMON (3½" X 0.162") 12 - 3" X 0.131" NAILS 12 - 3", 14 GAGE STAPLES	FACE NAIL AT LAP SPLICE
9. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8d COMMON (2½" X 0.131") 3 - 3 X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	TOENAIL
10. RIM JOIST TO TOP PLATE	8d (2½" X 0.131") AT 6" O.C. 3" X 0.131" NAILS AT 6" O.C. 3", 14 GAGE STAPLES AT 6" O.C.	TOENAIL
11. TOP PLATES, LAPS AND INTERSECTIONS	2 - 16d COMMON (3½" X 0.162") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	FACE NAIL
12. CONTINUOUS HEADER (2) PIECES	16d COMMON (3½" X 0.162")	16" O.C. EACH EDGE, FACE NAIL
13. CEILING JOISTS TO PLATE	3 - 8d COMMON (2½" X 0.131") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	TOENAIL
14. CONTINUOUS HEADER TO STUD	4 - 8d COMMON (2½" X 0.131")	TOENAIL
15. RAFTER TO PLATE	3 - 16d (3½" X 0.162") 4 - 3" X 0.131" NAILS 4 - 3", 14 GAGE STAPLES	TOENAIL
16. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8d COMMON (2½" X 0.131") 2 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES	FACE NAIL
17. BUILT-UP CORNER STUDS	16d (3½" X 0.162") 3" X 0.131" NAILS 3" 14 GAGE STAPLES	12" O.C. FACE NAIL

FASTENING SCHEDULE

CONNECTION	FASTENING[a, k]	LOCATION
18. BUILT-UP GIRDER AND BEAMS	20d COMMON (4" X 0.192") at 32" O.C. 3" X 0.131" NAIL AT 24" O.C. 3" 14 GAGE STAPLE AT 24" O.C. AND	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	2 - 20d COMMON (4" X 0.192") OR 3 - 3" X 0.131" NAIL OR 3 - 3" 14 GAGE STAPLE	FACE NAIL AT ENDS AND AT EACH SPLICE
19. COLLAR TIE TO RAFTER	3 - 10d COMMON (3" X 0.148") 4 - 3" X 0.131" NAILS 4 - 3" 14 GAGE STAPLES	FACE NAIL
20. ROOF RAFTER TO 2-BY RIDGE BEAM	3 - 10d COMMON (3½" X 0.148") 4 - 3" X 0.131" NAILS 4 - 3" 14 GAGE STAPLES	TOENAIL
21. JOIST TO BAND JOIST	3 - 16d COMMON (3½" X 0.162") 4 - 3" X 0.131" NAILS 4 - 3" 14 GAGE STAPLES	END NAIL
22. WOOD STRUCTURAL PANELS AND PARTICLEBOARD[b], SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING) SINGLE FLOOR, COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING	½" AND LESS — 6d[c, J]; 2⅜" X 0.113" NAIL[l]; 1¾" X 16 GAGE[m] STAPLE 19/32" TO ¾" — 8d[d] OR 6d[e]; 2⅜" X 0.113" NAIL[n]; 2" 16 GAGE[n] STAPLE ⅞" TO 1" — 8d[c] 1⅛" TO 1¼" — 10d[d] OR 8d[e]	6" O.C. AT ENDS ABOVE RAFTER / TRUSS AND 12" O.C. AT INTERMEDIATE, 4" O.C. AT COMPONENT AND CLADDING END STRIP # ZONE 3 [REFER TO FIGURE ON SHEET S-3], UNLESS NOTED OTHERWISE
23. PANEL SIDING TO FRAMING	½" OR LESS — 6d[f] ⅝" — 8d[f]	6" / 12" O.C. AT EDGES / INTERMEDIATE
24. FIBERBOARD SHEATHING	1/2" — NO. II GAGE ROOFING NAIL[h]; 6d COMMON NAIL (2" x 0.113"); NO. 16 GAGE STAPLE[i] 25/32" — NO. II GAGE ROOFING NAIL[h]; 8D COMMON NAIL (2 ½" x 0.131"); NO 16 GAGE STAPLE[i]	3" / 6" O.C. AT EDGES / INTERMEDIATE FOR STRUCTURAL APPLICATIONS 6" / 12" O.C. AT EDGES / INTERMEDIATE FOR NON-STRUCTURAL APPLICATIONS

NOTES:

a. COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
b. NAILS SPACED AT 6' O.C. AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
c. COMMON OR DEFORMED SHANK (6d - 2" x 0.113"; 8d - 2 ½" x 0.131"; 10d 3" x 0.148").
d. COMMON (6d - 2" x 0.113"; 8d - 2 1/2" x 0.131"; 10d x 0.148").
e. DEFORMED SHANK (6d - 2" x 0.113"; 8d - 2 1/2" x 0.131"; 10d 3" x 0.148").
f. CORROSION-RESISTANT SIDING (6d - 1 7/8" x 0.106"; 8d 2 3/8' x 0.128") OR CASING (6d 2" x 0.099"; 8d 2 1/2" x 0.113") NAIL.
g. FASTENERS SPACED 3" O.C. AT EXTERIOR EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6" O.C. ON THE EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.
h. CORROSION-RESISTANT ROOFING NAILS WITH 7/16" DIAMETER HEAD AND 1 ½"' LENGTH FOR 1/2" SHEATHING AND 1 3/4" LENGTH FOR 25/32" SHEATHING.
i. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16" CROWN OR 1" CROWN AND 1 1/4" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IS THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
j. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2 1/2" x 0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
k. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16'.
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.

GEORGIA REGISTERED PE029466 PROFESSIONAL ENGINEER KENT M. BICE

ALABAMA LICENSED NO. 23437 PROFESSIONAL ENGINEER KENT M. BICE

KENT M. BICE REGISTERED PROFESSIONAL ENGINEER 16399 STATE OF MISSISSIPPI

STATE OF LOUISIANA KENT M. BICE License No. 33247 PROFESSIONAL ENGINEER

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 15831 KENT M. BICE

11/14/25

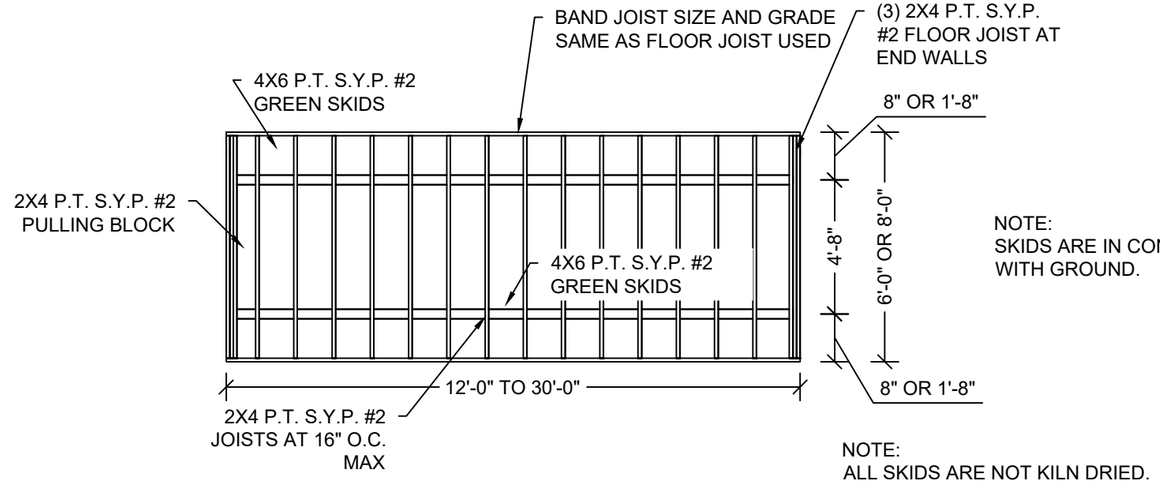
1552 6TH ST., WINTER HAVEN, FL 33880
(863)865-6502

THESE PLANS WERE DESIGNED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE ASCE 7-22.

FASTENING SCHEDULE

DATE: 04/12/18 | DRAWN BY: RD
SCALE: AS NOTED | CHECKED BY: KMB

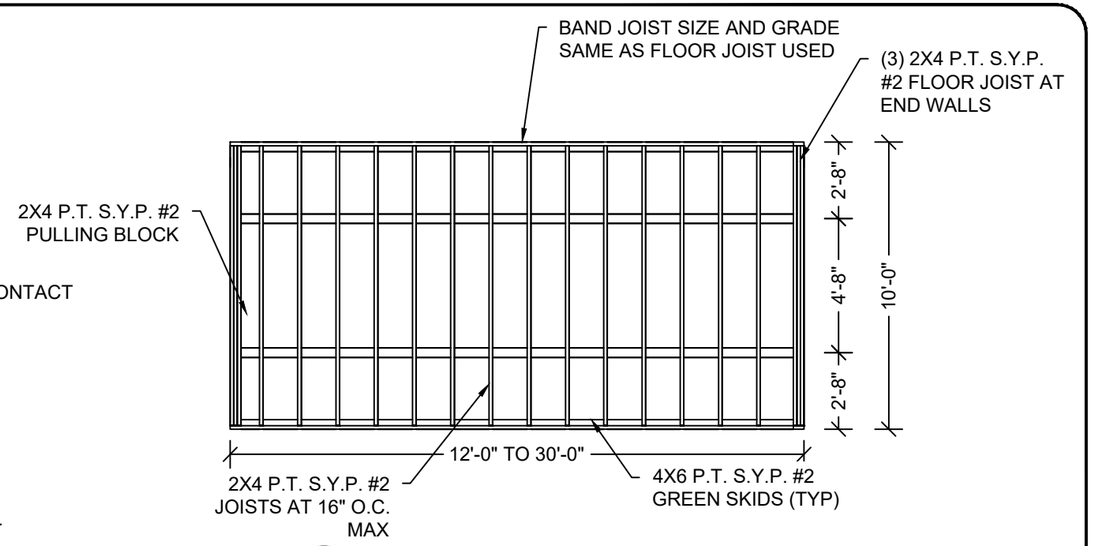
SHEET: S-4
SHEET 4 OF 13



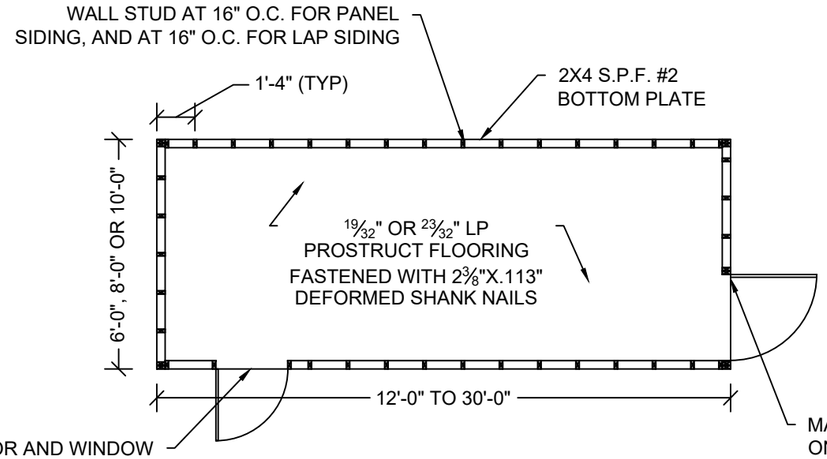
NOTE:
SKIDS ARE IN CONTACT
WITH GROUND.

NOTE:
ALL SKIDS ARE NOT KILN DRIED.

1 / S-5 **FLOOR FRAMING PLAN 6'-0" OR 8'-0" UNIT**
SCALE: 3/16" = 1'-0"

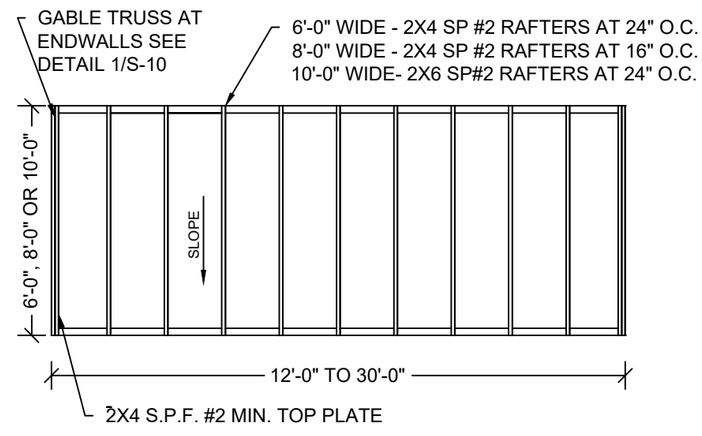


2 / S-5 **FLOOR FRAMING PLAN 10'-0" UNIT**
SCALE: 3/16" = 1'-0"



NOTE:
IF 19/32" SIDING IS CHOSEN. WALL STUDS ARE TO BE 2'-0" O.C

3 / S-5 **FLOOR DECK PLAN**
SCALE: 3/16" = 1'-0"



4 / S-5 **ROOF FRAMING PLAN**
SCALE: 3/16" = 1'-0"

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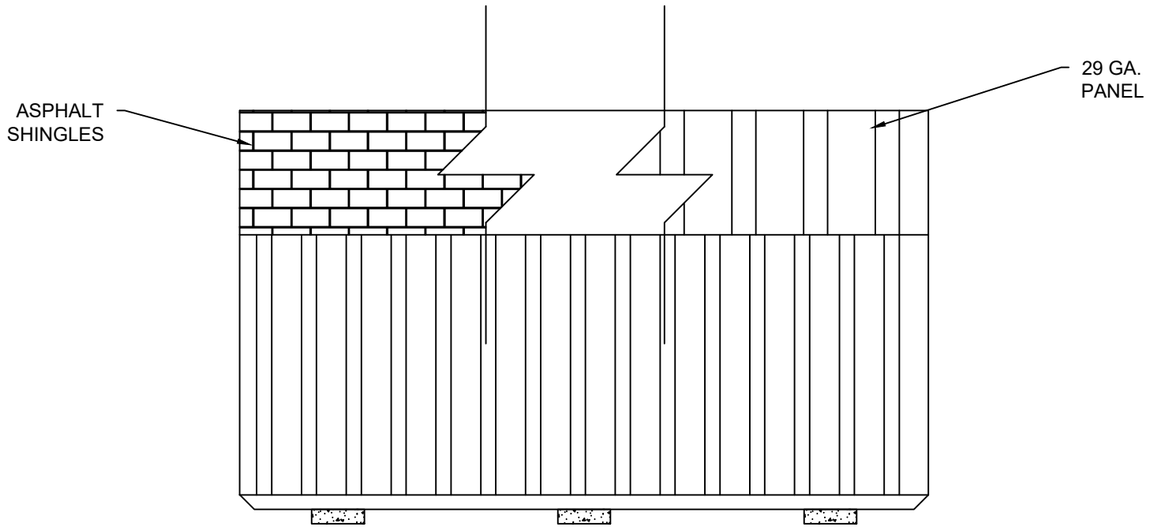
FRAMING PLANS

DATE: 04/12/18	DRAWN BY: RD
SCALE: AS NOTED	CHECKED BY: KMB

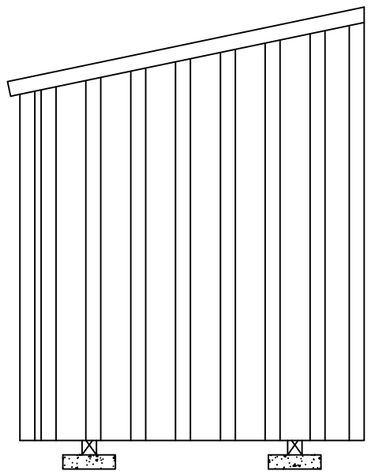
SHEET: S-5



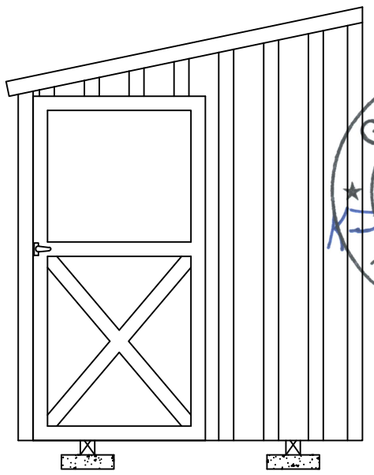
1 / S-6 **SIDE WALL ELEVATION WITH PANEL SIDING**
SCALE: 1/4" = 1'-0"

SHEARWALL WITH 3/8" LP SMART SIDING			
FLOOR WIDTH (FT)	OPENING WIDTH (FT.)		MAX LENGTH OF BUILDING
	LONG SIDE WALL	SHORT END WALL	
6'-0"	3'-0", 4'-0" OR 6'-0"	2'-0", 3'-0"	30'-0"
8'-0"	3'-0", 4'-0" OR 6'-0"	2'-0", 3'-0" OR 4'-0"	30'-0"
10'-0"	3'-0", 4'-0" OR 6'-0"	2'-0", 3'-0", 4'-0" OR 6'-0"	30'-0"

NOTES:
1. 3/8" SIDING APA RATED SIDING 303-16" O.C. SHALL BE FASTENED USING DEFORMED (0.113" x 2 3/8") SHANK NAILS AT 6" O.C. IN FIELD AND 6" O.C. AT EDGES.
2. WINDOWS AND DOORS MAY BE LOCATED ONLY IN THE SHORT SIDE WALL AND END WALL. LIMITATIONS ON THE TOTAL DIMENSIONS SHALL BE BASED ON THE SHEAR WALL HEIGHT TO WIDTH RATIO OF 3.5:1 AND SHALL NOT EXCEED (2/3) OF TOTAL LENGTH OF BUILDING. DOOR AND WINDOW SHALL BE LOCATED SUCH THAT THEY ARE AT LEAST 2'-0" APART IN SIDE WALL, AND AT ANY ONE END OF END WALL.
3. EDGE NAILING SHALL BE PROVIDED AT TOP PLATE IN ALL END WALLS.
4. PROVIDE BLOCKING AT ALL UNSUPPORTED EDGES OF WALL SHEATHING.



SAMPLE UNIT WITHOUT OPENINGS



SAMPLE UNIT WITH 3'-0" DOOR

2 / S-6 **ENDWALL ELEVATION WITH PANEL SIDING**
SCALE: 1/4" = 1'-0"

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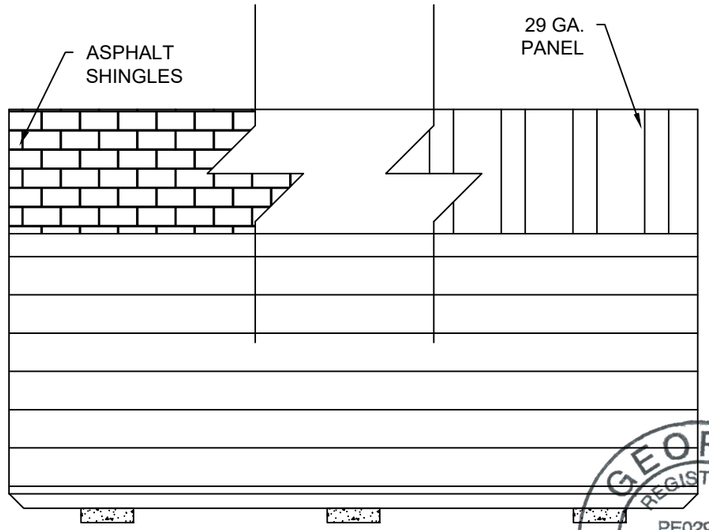
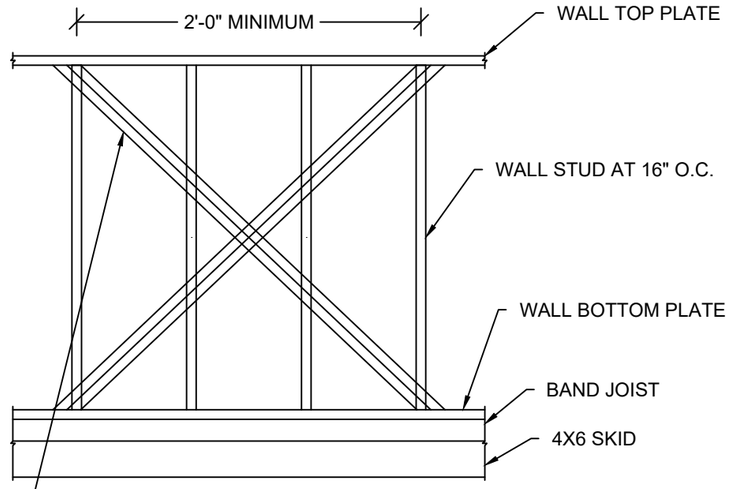
ELEVATIONS - PANEL SIDING

DATE: 04/12/18	DRAWN BY: RD
SCALE: AS NOTED	CHECKED BY: KMB

SHEET: S-6





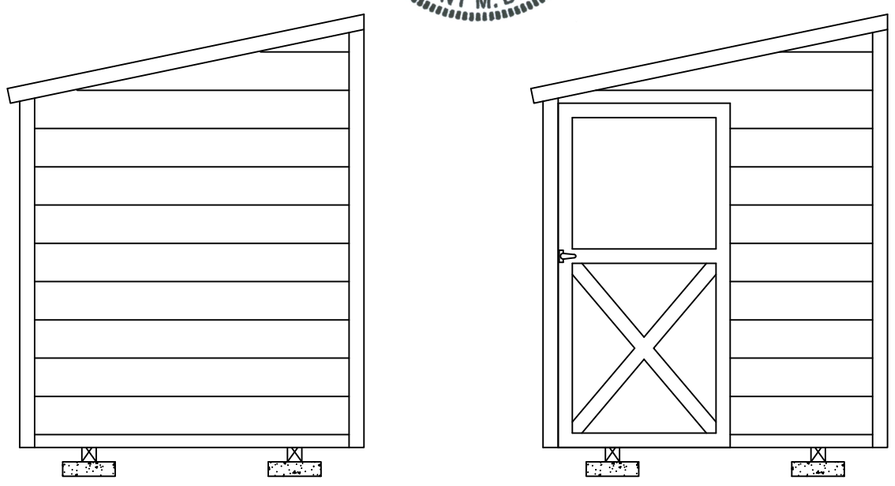
(2) SIMPSON CS18 (43MIL X 1-1/4", GRADE 40 STEEL, G60 COATING) X-STRAP OR EQUIVALENT ON INSIDE FACE OF WALL STUD. ATTACH STRAPS TO WALL TOP & BOTTOM PLATES WITH 0.131" x 2-1/4" NAILS STAGGERED - (4) NAILS IN SIDE WALL, (6) NAILS IN END WALL WITHOUT OPENINGS AND (10) NAILS IN END WALL WITH OPENINGS. STRAP MAY BE WRAPPED AROUND WALL TOP & BOTTOM PLATES.
ALTERNATE: 7/16" APA RATED SHEATHING ON OUTSIDE FACE OF WALL STUD FASTENED WITH 8d COMMON OR DEFORMED (0.131" x 2-1/2") NAILS AT 6" O.C. IN FIELD AND 3" O.C. AT EDGES IN SIDE WALL, AND 3" O.C. EVERYWHERE IN END WALL.

1 S-6A **SIDE WALL ELEVATION WITH LAP SIDING**
SCALE: 1/4" = 1'-0"

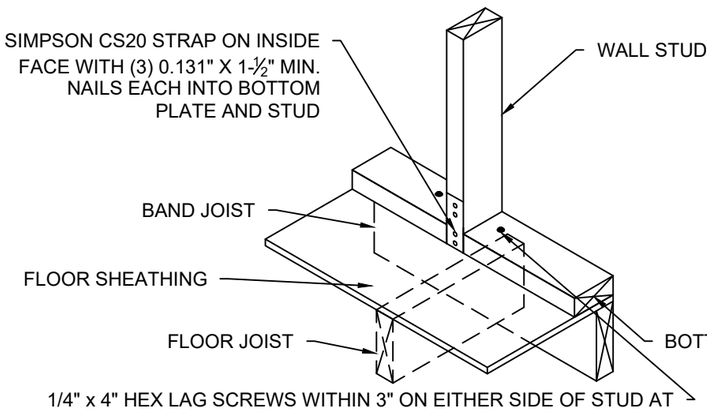
2 S-6A **PARTIAL SIDE WALL / END WALL FRAMING ELEVATION WITH LAP SIDING**
SCALE: NTS

SHEARWALL WITH 3/8" LP SMART SIDING			
FLOOR WIDTH (FT)	OPENING WIDTH (FT.)		MAX LENGTH OF BUILDING
	LONG SIDE WALL	SHORT END WALL	
6'-0"	3'-0", 4'-0" OR 6'-0"	2'-0", 3'-0"	30'-0"
8'-0"	3'-0", 4'-0" OR 6'-0"	2'-0", 3'-0" OR 4'-0"	30'-0"
10'-0"	3'-0", 4'-0" OR 6'-0"	2'-0", 3'-0", 4'-0" OR 6'-0"	30'-0"

NOTES:
1. MIN. 0.45" THICK LP SMARTSIDE 12" BOLD PROFILES DOUBLE 5" FIBER SUBSTRATE LAP SIDING PER ICC-ES ESR 3090, TABLES 2A, 2B, AND 2C.
2. ATTACH LAP SIDING TO STUD / SHEATHING WITH 8d SINKER NAILS (0.113"X2-3/8") AT 3/8" FROM EACH END, AND 3 NAILS PER STUD / 16" SPACING -- 3" FROM TOP EDGE, IN THE MIDDLE AND 1-1/2" FROM BOTTOM EDGE.
3. NO OPENINGS SHALL BE IN THE TALLEST SIDE WALL.
4. WINDOWS AND DOORS MAY BE LOCATED ONLY IN THE SHORT SIDE WALL AND END WALL. LIMITATIONS ON THE TOTAL DIMENSIONS SHALL BE BASED ON THE SHEAR WALL HEIGHT TO WIDTH RATIO OF 3.5:1 AND SHALL NOT EXCEED 2/3 OF TOTAL LENGTH OF BUILDING.MAXIMUM OF ONE DOOR AND ONE WINDOW SHALL BE LOCATED SUCH THAT THEY'RE AT LEAST 2'-0" APART IN SIDE WALL, AND AT ANY ONE END OF END WALL.
5. EDGE NAILING SHALL BE PROVIDED AT TOP PLATE IN ALL WALLS.
6. PROVIDE BLOCKING AT ALL UNSUPPORTED EDGES OF WALL SHEATHING.



4 S-6A **ENDWALL ELEVATION WITH LAP SIDING**
SCALE: 1/4" = 1'-0"



1/4" x 4" HEX LAG SCREWS WITHIN 3" ON EITHER SIDE OF STUD AT X-BRACE END LOCATIONS AND CENTERED THRU BAND JOIST - (2) SCREWS IN SIDE WALL AND END WALL WITHOUT OPENINGS, AND (4) SCREWS IN END WALL WITH OPENINGS SPACED MIN. 1" APART. PREDRILL MAX. 1/4" DIA. HOLE THRU BOTTOM PLATE AND 0.15" DIA. HOLE THRU SHEATHING AND BAND JOIST.

3 S-6A **WALL STUD TIEDOWN FOR X-BRACE OPTION**
SCALE: NTS

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ELEVATIONS - LAP SIDING

DATE: 04/12/18 | DRAWN BY: RD
SCALE: AS NOTED | CHECKED BY: KMB

SHEET: S-6A
SHEET 7 OF 13

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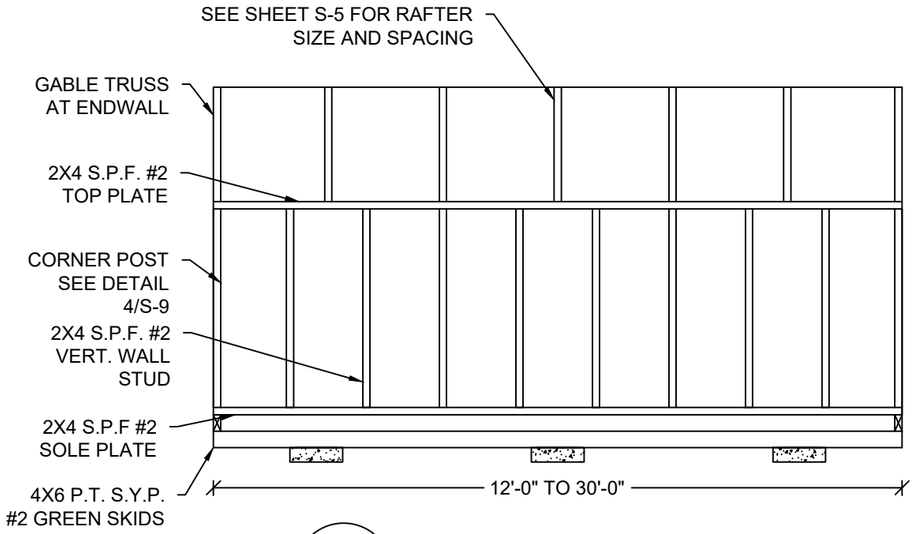
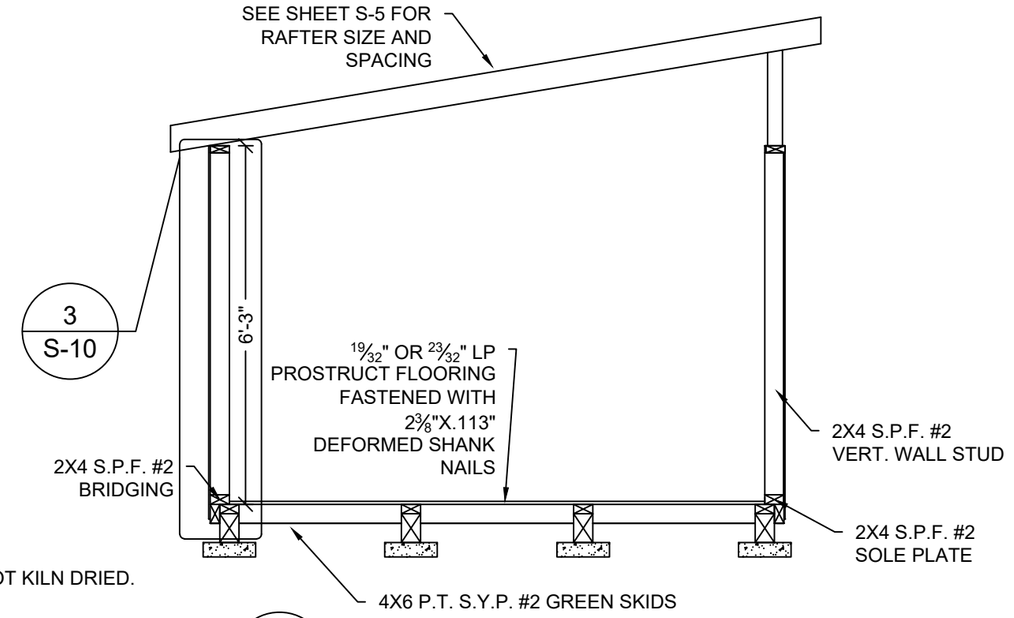


1/S-7 **FRAMING ELEVATION OF TALL SIDE WALL**
SCALE: 3/8" = 1'-0"

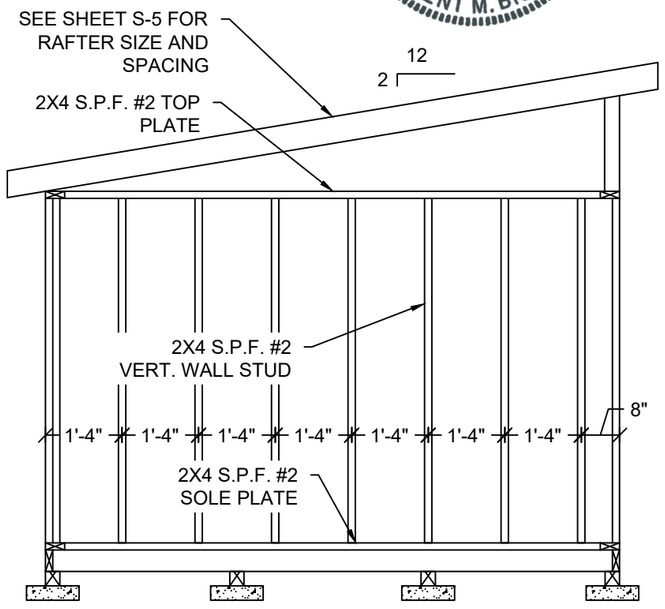
NOTE:
SKIDS ARE IN CONTACT WITH GROUND.

NOTE:
ALL SKIDS ARE NOT KILN DRIED.

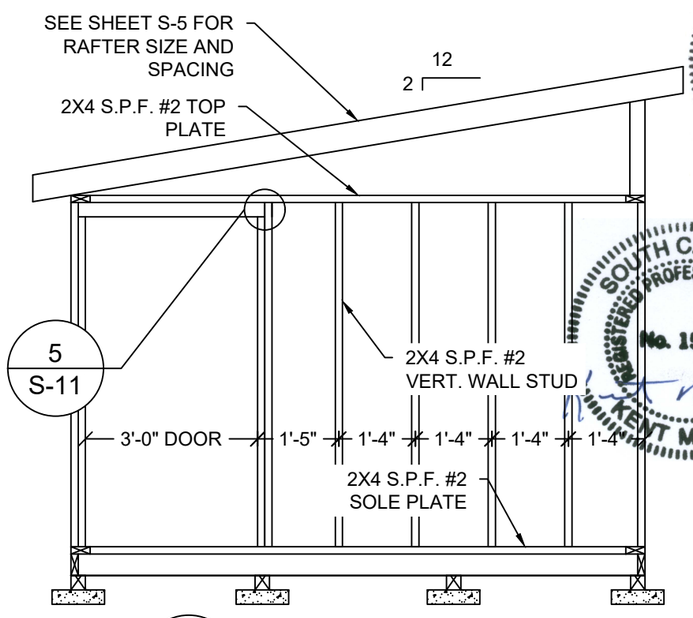
NOTE:
FOR ALL FASTENING OF FRAMING MEMBERS NOT NOTED ON THIS SHEET REFER TO FASTENING SCHEDULE ON SHEET S-4.



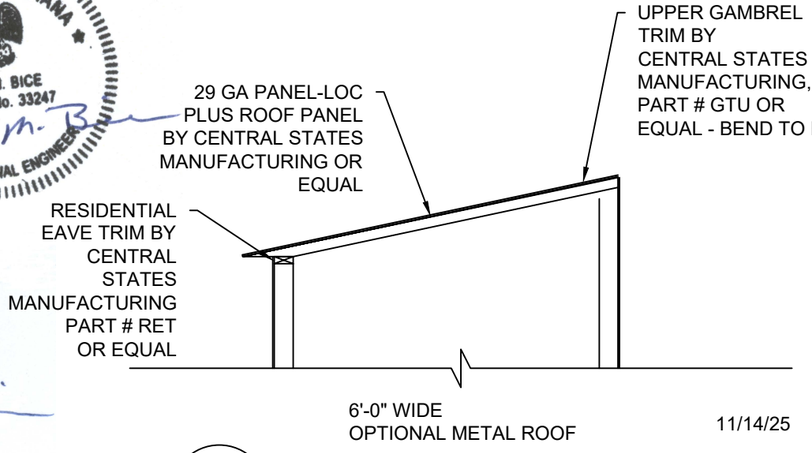
2/S-7 **CROSS SECTION**
SCALE: 3/8" = 1'-0"



3/S-7 **ENDWALL FRAMING ELEVATION**
SCALE: 3/8" = 1'-0"



4/S-7 **ENDWALL FRAMING ELEVATION**
SCALE: 3/8" = 1'-0"



11/14/25

5/S-7 **ENDWALL FRAMING ELEVATION**
SCALE: 3/8" = 1'-0"

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ELEVATIONS AND SECTIONS

DATE: 04/12/18	DRAWN BY: RD
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SHEET: S-7
SHEET 8 OF 13

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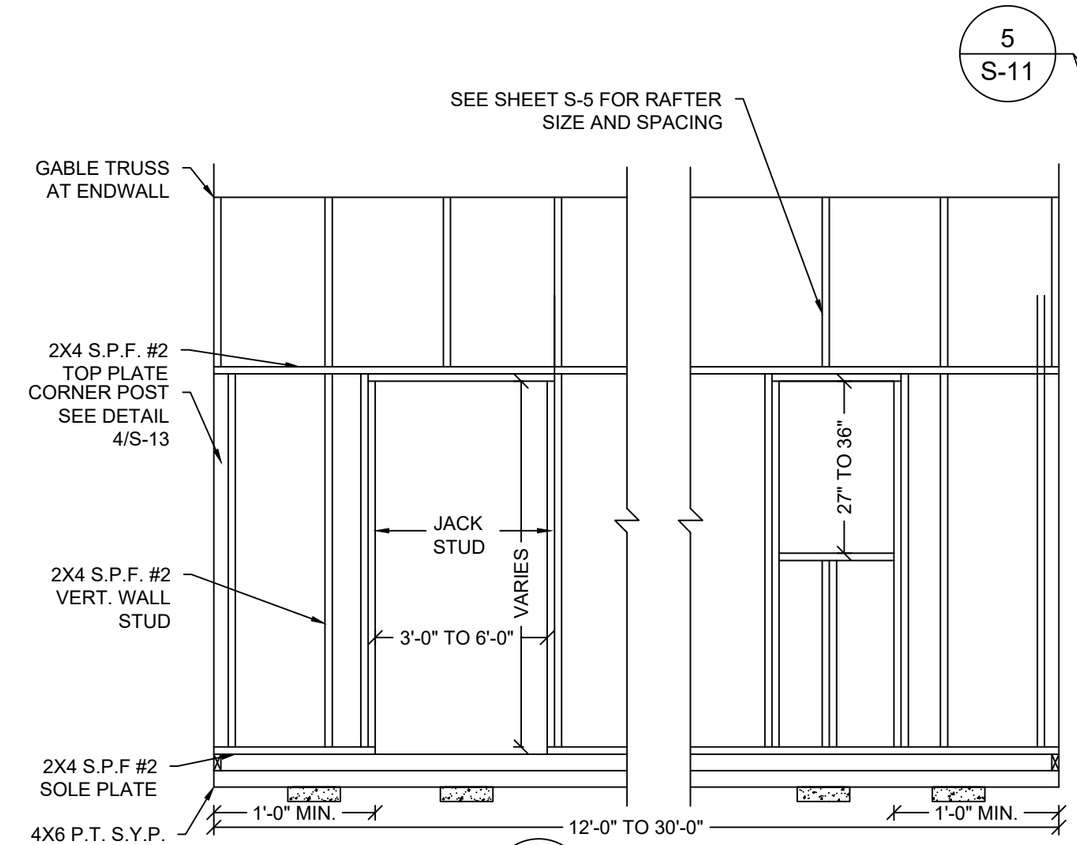
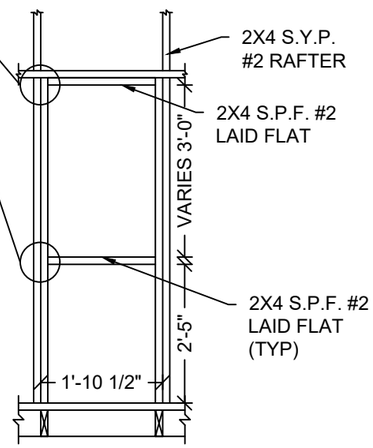
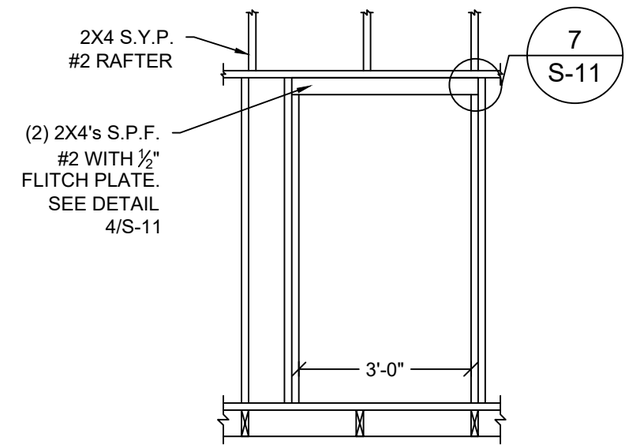


1 S-8 **FRAMING ELEVATION**
SCALE: 3/8" = 1'-0"



SIDEWALL
2'-0" NOMINAL WINDOW HEADER AND SILL

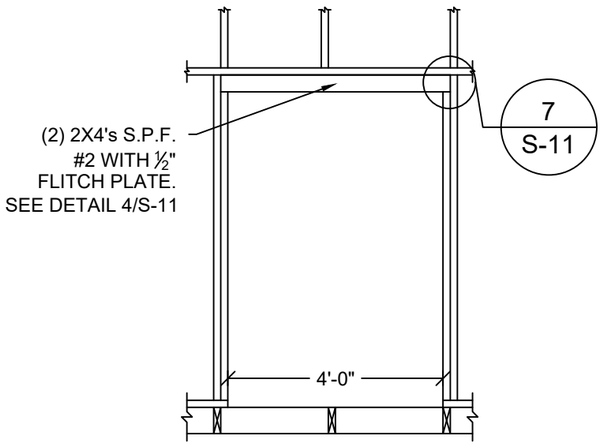
2 S-8 **FRAMING ELEVATION**
SCALE: 3/8" = 1'-0"



3'-0" DOOR OPENING

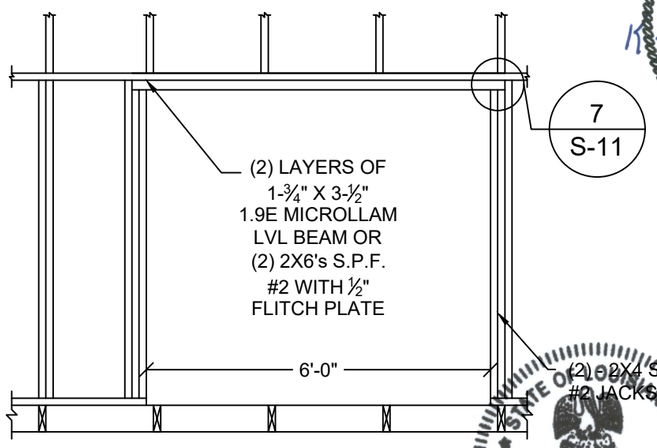
3 S-8 **FRAMING ELEVATION**
SCALE: 3/8" = 1'-0"

NOTE:
SKIDS ARE IN CONTACT WITH GROUND.



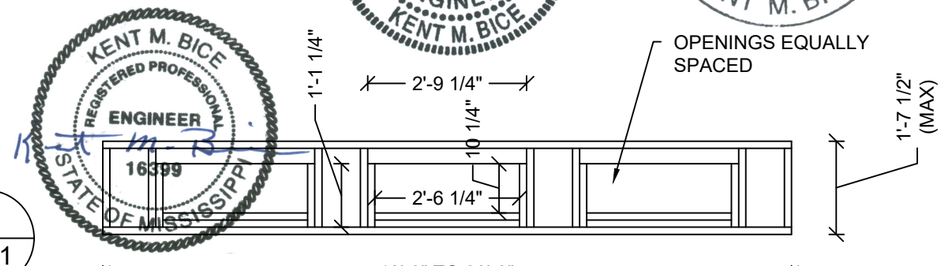
SIDEWALL
4'-0" DOOR OPENING

4 S-8 **FRAMING ELEVATION**
SCALE: 3/8" = 1'-0"



SIDEWALL
6'-0" DOOR OPENING

5 S-8 **FRAMING ELEVATION**
SCALE: 3/8" = 1'-0"



NOTE:
2X4'S REQUIRED AT 24" O.C. WHEN SPACED BETWEEN OPENINGS EXCEEDS 24"

NOTE:
2X4 SP #2 OR BETTER MATERIAL

6 S-8 **KNEE WALL DETAIL**
SCALE: 3/8" = 1'-0"

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SHORT SIDE WALL ELEVATION

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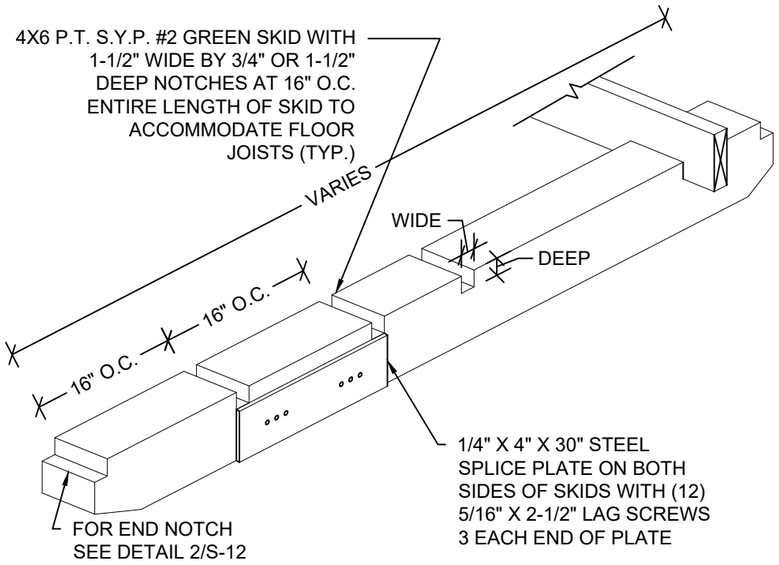
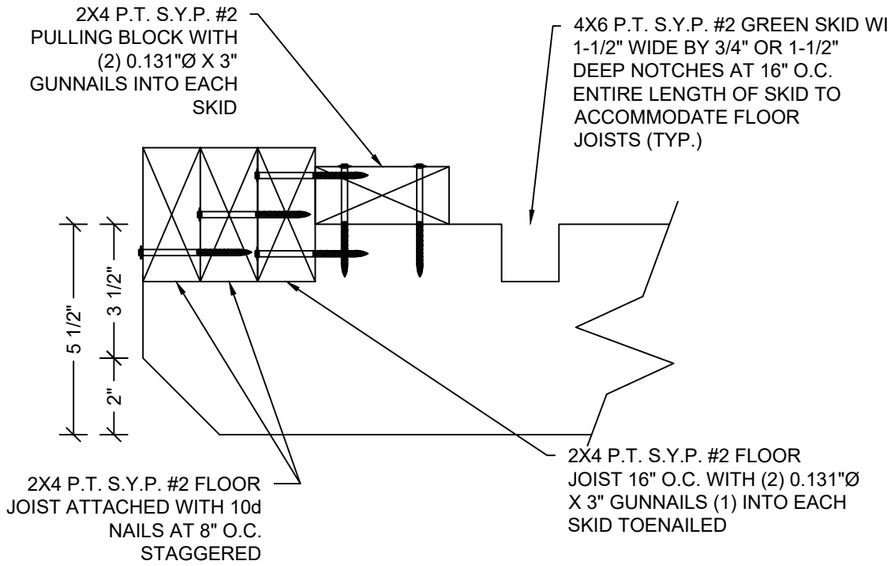
SCALE: AS NOTED	CHECKED BY: KMB

SHEET: S-8



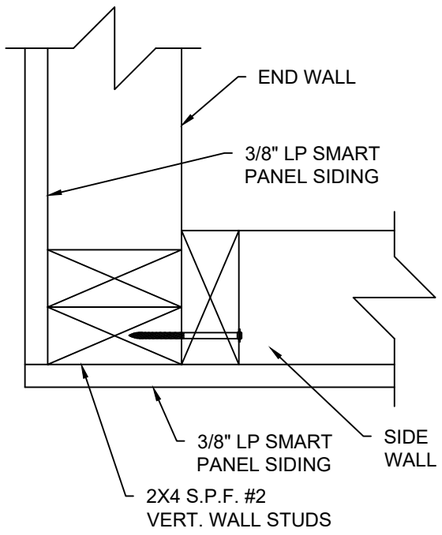
1 S-9 **ISOMETRIC SKID DETAIL**
SCALE: N.T.S.



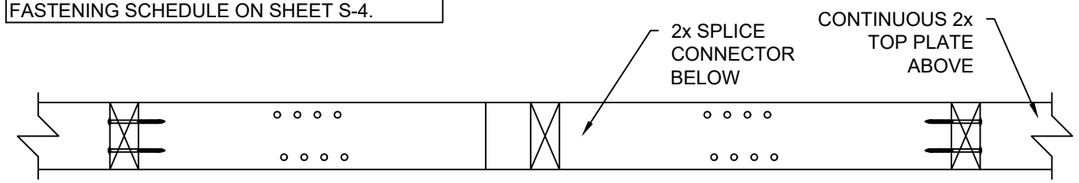
NOTE:
ALL SKIDS ARE NOT KILN DRIED.

2 S-9 **END WALL JOIST DETAIL**
SCALE: 3" = 1'-0"

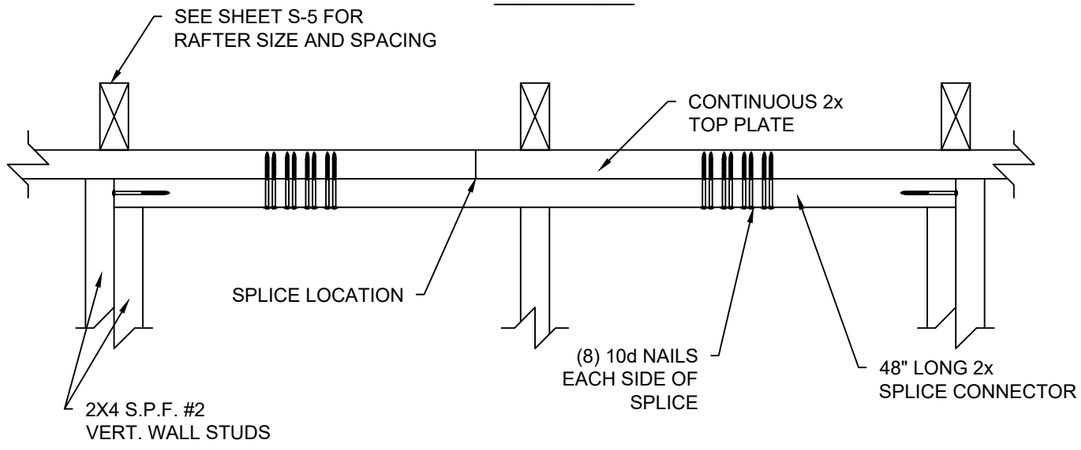
NOTE:
FOR ALL FASTENERS OF FRAMING MEMBERS NOT NOTED ON THIS SHEET, REFER TO FASTENING SCHEDULE ON SHEET S-4.



3 S-9 **CORNER CONNECTION DETAIL**
SCALE 3" = 1'-0"



SPLICE CONNECTION DETAIL
PLAN VIEW



4 S-9 **SPLICE CONNECTION DETAIL**
SCALE: 1-1/2" = 1'-0"

NOTE:
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DETAILS

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SHEET: S-9
SHEET 10 OF 13

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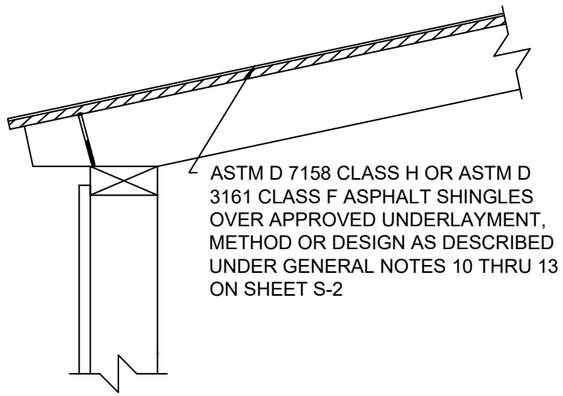
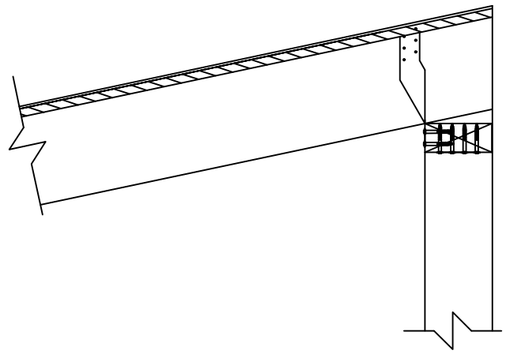
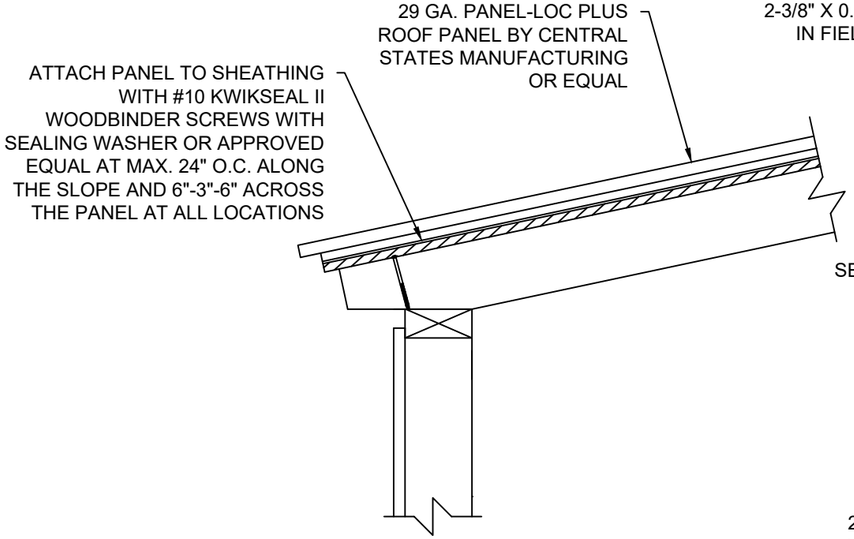


ASTM D 7158 CLASS H OR ASTM D 3161 CLASS F ASPHALT SHINGLES OVER APPROVED UNDERLAYMENT, METHOD OR DESIGN AS DESCRIBED UNDER GENERAL NOTES 10 THRU 13 ON SHEET S-2

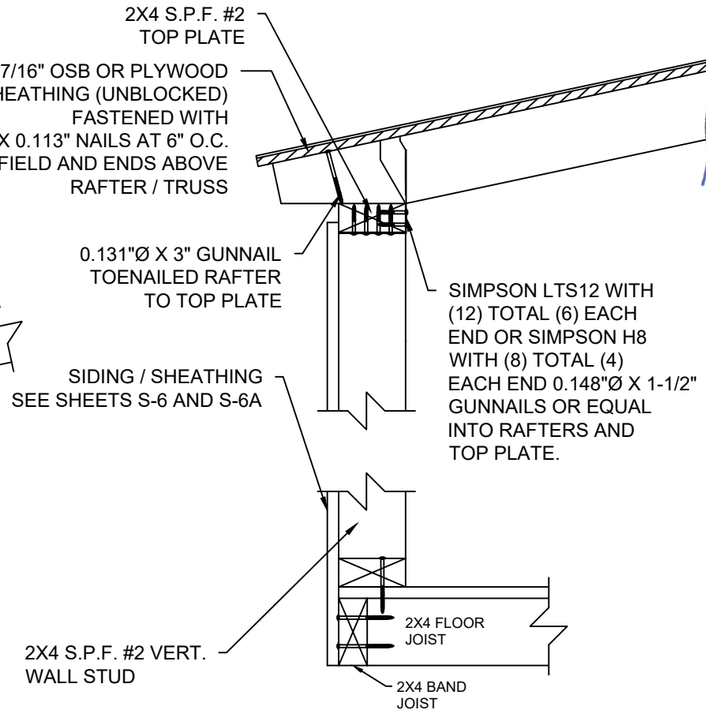
3 / S-10 **SHINGLE FASTENING DETAIL**
SCALE: 1-1/2" = 1'-0"



4 / S-10 **WALL STUD TO RAFTER AT TALL SIDE WALL DETAIL**
SCALE: 1-1/2" = 1'-0"



1 / S-10 **METAL ROOF FASTENING DETAIL**
SCALE: 1-1/2" = 1'-0"



2 / S-10 **TOP PLATE TO RAFTER / TRUSS AND FLOOR FASTENING DETAIL**
SCALE: 1-1/2" = 1'-0"

NOTE:
FOR ALL FASTENING OF FRAMING MEMBERS NOT NOTED ON THIS SHEET, REFER TO FASTENING SCHEDULE ON SHEET S-4.

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KENT M. BICE REGISTERED PROFESSIONAL ENGINEER 16399 STATE OF MISSISSIPPI

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STATE OF LOUISIANA KENT M. BICE License No. 33247 PROFESSIONAL ENGINEER

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 15831 KENT M. BICE

11/14/25

THESE PLANS WERE DESIGNED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE ASCE 7-22.

1552 6TH ST., WINTER HAVEN, FL 33880
(863)865-6502

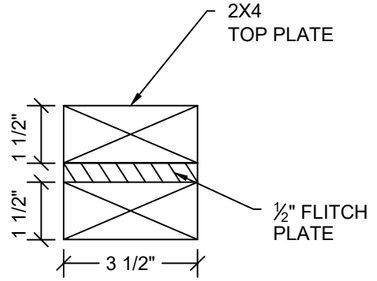
DETAILS

DATE: 04/12/18	DRAWN BY: RD
SCALE: AS NOTED	CHECKED BY: KMB

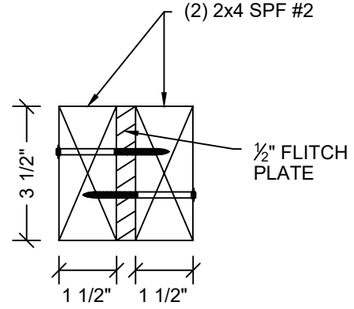
SHEET: S-10
SHEET 11 OF 13

18 GA. GALVANIZED STEEL WITH
(12) TOTAL (6) EACH END
0.148"Ø X 1-½" NAILS OR EQUAL INTO
RAFTERS AND STUD WALLS

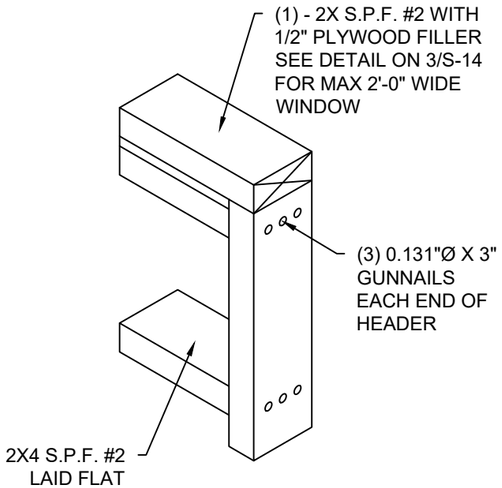
1 / S-11 **SIMPSON LTS12 DETAIL**
SCALE: 3" = 1'-0"



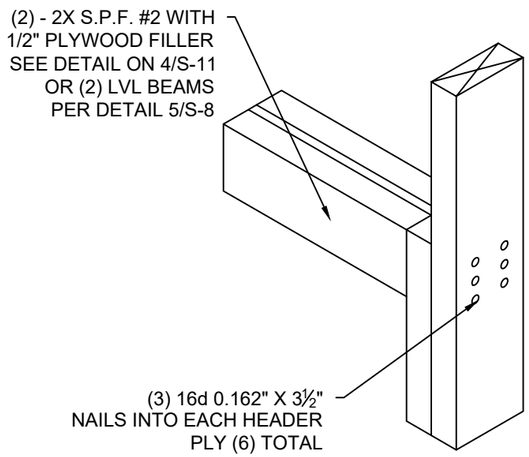
2 / S-11 **HEADER SECTION**
SCALE: 3" = 1'-0"



3 / S-11 **HEADER SECTION**
SCALE: 3" = 1'-0"



4 / S-11 **WINDOW HEADER AND SILL DETAIL**
SCALE: N.T.S.



5 / S-11 **HEADER WITH STRAP**
SCALE: N.T.S.

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GEORGIA REGISTERED PE029466 PROFESSIONAL ENGINEER KENT M. BICE

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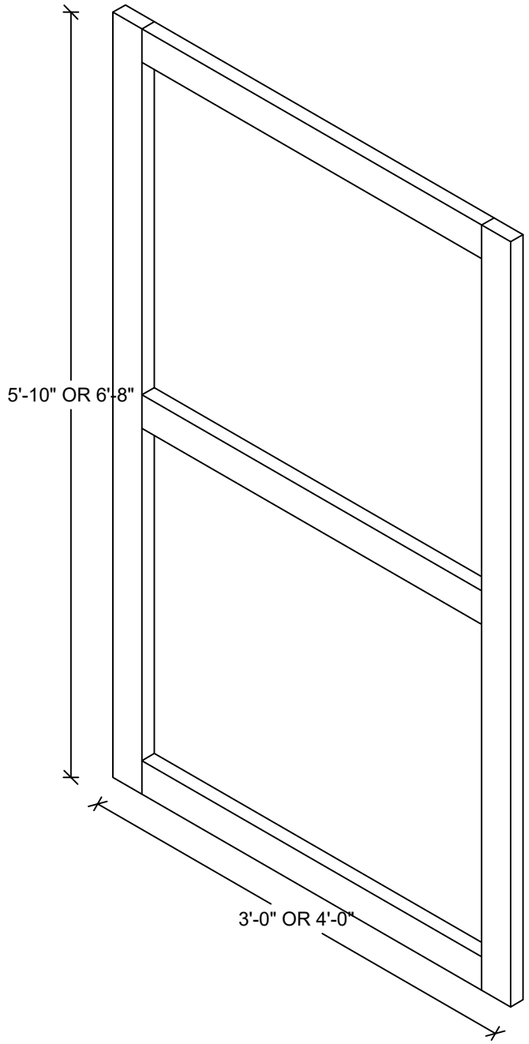
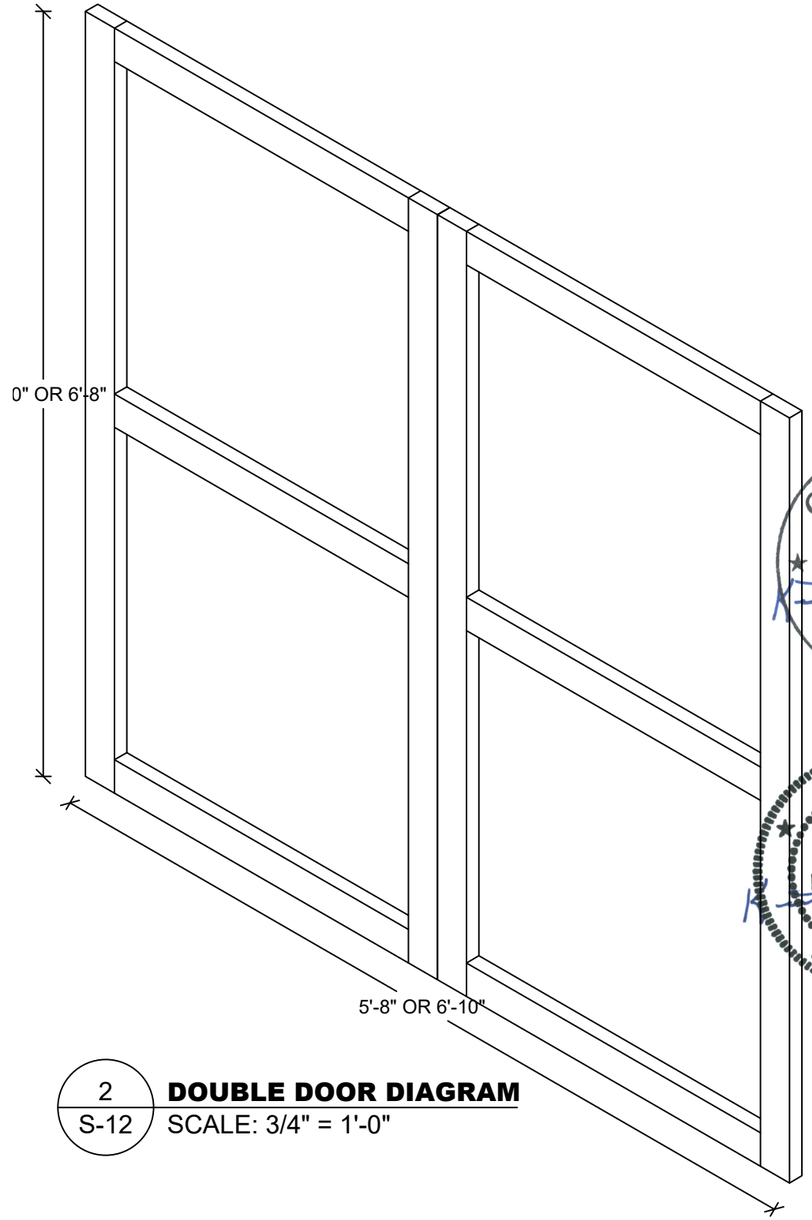
SHEET: S-11
SHEET 12 OF 13



1 S-12 **SINGLE DOOR DIAGRAM**
SCALE: 3/4" = 1'-0"



2 S-12 **DOUBLE DOOR DIAGRAM**
SCALE: 3/4" = 1'-0"

DOOR OR WINDOW WIND PRESSURE TABLE	
ENTRY DOOR	+55/-60 PSF
GARAGE DOOR 10'-0"	+40.9/-46.5 PSF
GARAGE DOOR 8'-0"	+42.9/-48.5 PSF
WINDOWS (DP66)	+55/-60 PSF

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CONNECTION NOTES:

STEEL TWIST HANDLE DOOR LOCK WITH DOOR HANDLE, ¼" STEEL L-SHAPED HANDLE WITH ⅜" STEEL SHAFT THAT LATCHES BEHIND THE LEFT DOOR.

4" X 3/8 SLIDE BOLT ON TOP AND BOTTOM OF LEFT DOOR.

DOOR CLOSES AGAINST 2X2 DOOR STOP NAILED INSIDE OPENING.

FRAME IS STITCHED TOGETHER AT JOINTS WITH 5 PCS OF 1" X 1" WIDE CROWN STAPLES, SIDING ATTACHED WITH 1-3/4 X .092 RING SHANK NAILS AT 8" O.C AROUND EDGES AND ACROSS MIDDLE, 1X4 TRIM ATTACHED WITH 1-3/4 BRAD NAILS. DOOR HANDLE IS SOLID CAST HANDLE WITH SET SCREW.

NOTES:
EACH DOOR SECURED TO WALL WITH 3 PCS OF 6" T-HINGE, 0.090" ZINC COATED STEEL. USING A TOTAL OF 8PCS #8X 2-1/2 HINGE SCREWS. (4 IN EACH END)

STEEL LATCH HANDLE SECURED WITH 3 PCS OF #8X 2-1/2 HINGE SCREWS.

CAST STEEL D-HANDLE ATTACHED TO ¼ LOCK SHAFT WITH TINNERMAN NUT AND 1/8 SET SCREW.

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ISOMETRIC DOOR DIAGRAMS

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SHEET: S-12
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