STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION - SSTD 10-99
APPENDIX E
TABLE 2306.1 - FASTENING SCHEDULE

CONNECTION	FASTENER	NUMBER OR SPACING
Joist to band joist, face nail	16d common	3
Joist to sill or girder, toe nail	8d common	3
Bridging to joist, toe nail each end	8d common	2
Ledger strip	16d common	3 at each joint
1x6 or less subfloor to each joist, face nail	8d common	2
Over 1x6 subfloor to each joist, face nail	8d common	3
2-inch subfloor to joist or girder, blind and face nail	16d common	2
Sole plate to joist or blocking, face nail	16d common	16" o.c.
Top or sole plate to stud, end nail	16d common	2
Stud to sole plate, toe nail	8d common	4
Doubled studs, face nail	10d common	24" o.c.
Double top plates, face nail	10d common	16" o.c.
Top plates, lap and intersections face nail	---	2-16d or 3-10d common
Continuous header, two pieces	16d common	16" o.c. along each edge
Ceiling joists to plate, toe nail	8d common	3
Continuous header to stud, toe nail	8d common	3
Ceiling joists, laps over partitions, face nail	---	3-16d or 4-10d common
Ceiling joists to parallel rafters, face nail	---	3-16d or 4-10d common
Rafter to plate, toe nail	8d common	3
1-inch brace to each stud and plate, face nail	8d common	2
1x8 or less sheathing to each bearing, face nail	8d common	2
Over 1x8 sheathing to each bearing, face nail	8d common	3
Built-up corner studs	16d common	24" o.c.
Built-up girders and beams, of three members	20d common	32" o.c. at top and bottom and staggered 2 ends and at each splice.
2-inch planks	16d common	2 each bearing
Studs to sole plate, end nail	16d common	2 each end

Fiberboard Sheathing [1]	FASTENER	NUMBER OR SPACING
1/2"	1 1/2" galvanized roofing nail 6d common nail	3" o.c. at edges 6" o.c. at other bearings
25/32"	1 3/4" galvanized roofing nail 8d common	3" o.c. at edges 6" o.c. at other bearings
Gypsum Sheathing		
1/2"	11ga. 1 1/2" galvanized roofing nail 7/16" head	4" o.c. at edges 8" o.c. at other bearings
5/8"	11ga. 1 1/2" galvanized roofing nail 7/16" head	4" o.c. at edges 8" o.c. at other bearings
Gypsum Wallboard		
1/2"	1 3/8" drywall nail [2]	7" o.c. on ceilings 8" o.c. on walls
5/8"	1 1/2" drywall nail [2]	7" o.c. on ceilings 8" o.c. on walls
Particleboard Siding		
5/16" - 1/2" [3]	6d [4]	
5/8" [5]	8d [4]	
3/4" [6]	8d [4]	
Hardboard Lap Siding Direct to Studs [5]	8d a corrosion resistant with minimum shank diameter of 0.099 inch and minimum head diameter of 0.240 inch	16" o.c. at top and bottom edges
Hardboard Lap Siding	10d c corrosion resistant with minimum shank diameter of 0.099 inch and minimum head diameter of 0.240 inch	16" o.c. at top and bottom edges
Hardboard Panel Siding	6d c corrosion resistant with minimum shank diameter of 0.092 inch and minimum head diameter of 0.225 inch	6" o.c. at edges and 12" o.c. at intermediate supports
Hardboard Panel Siding Over Sheathing	8d c corrosion resistant with minimum shank diameter of 0.092 inch and minimum head diameter of 0.225 inch	6" o.c. at edges and 12" o.c. at intermediate supports

Wood Structural Panel and Particleboard Subflooring [7]	FASTENER	NUMBER OR SPACING
15/32", 1/2"	6d common, annular or spiral thread	6" o.c. edges and 12" o.c. intermediate
19/32" - 3/4"	8d common or 6d annular or spiral thread	6" o.c. edges and 12" o.c. intermediate
1", 1 1/8"	10d common or 8d annular or spiral thread	6" o.c. edges and 6" o.c. intermediate
15/32", 1/2"	16 ga galvanized wire staples, 3/8" minimum crown 1 5/8" length	4" o.c. edges and 7" o.c. intermediate
19/32", 5/8"	16 ga galvanized wire staples, 3/8" minimum crown 1 5/8" length	2 1/2" o.c. edges and 4" o.c. intermediate

Wood Structural Panel and Particleboard Roof and Wall Sheathing [7]	FASTENER	NUMBER OR SPACING
1/2" or less	6d common (wall) 8d common (roof)	6" o.c. edges and 12" o.c. intermediate
19/32" or greater	8d common	6" o.c. edges and 12" o.c. intermediate
5/16" - 1/2"	16 ga galvanized wire staples, 3/8" min. crown. Length of 1" plus wood structural panel or particleboard thickness	4" o.c. edges and 8" o.c. intermediate
19/32" - 3/4"	16 ga galvanized wire staples, 3/8" min. crown. Length of 1" plus wood structural panel or particleboard thickness	2" o.c. edges and 5" o.c. intermediate

"THESE RESIDENTIAL DESIGN PLANS HAVE BEEN PROPERLY EXAMINED BY ME, THE UNDERSIGNED PROFESSIONAL ENGINEER. I HAVE DETERMINED THAT THESE PLANS COMPLY WITH THE FOLLOWING APPLICABLE CODES FOR THE JURISDICTION IN WHICH THE RESIDENCE IS TO BE LOCATED (CHECK ALL THAT APPLY): ☑ STRUCTURAL; ☐ MECHANICAL; ☐ ELECTRICAL; ☐ PLUMBING."

GENERAL NOTES:

1. LEDGES MAY NOT ALL BE SHOWN ON STRUCTURAL PLANS, REFER TO ARCHITECTURAL DRAWINGS.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 DAYS. FINISHES SHALL BE AS FOLLOWS: INTERIOR SLAB--STEEL TROWEL, EXTERIOR SLABS--LIGHT BROOM, AND VERTICAL SURFACES--RUBBED.
3. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615 GRADE 70. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
4. A MOISTURE BARRIER CONSISTING OF VISQUEEN 6 MILS THICK SHALL BE INSTALLED UNDER ALL CONCRETE.
5. CONTINUE BUILDING SLAB REINFORCEMENT INTO ENTRANCE SLABS, LANDINGS, AND RAMPS.
6. COORDINATE FOUNDATION CONSTRUCTION WITH MECHINCAL AND ELECTRICAL DRAWINGS TO ACCOMMODATE PLACEMENT OF PIPING AND CONDUITS IN FOOTINGS, BEAMS, AND SLABS. SUBMIT DETAILS OF LOCATIONS TO A/E FOR APPROVAL BEFORE PLACING PIPING AND CONDUITS THAT AFFECT REINFORCING STEEL OR CONCRETE. MAKE MODIFICATIONS AS DIRECTED BY A/E.
7. ALL FOOTING REBAR SHALL BE #5 T & B WITH #3 STIRRUPS AT 12" O.C.
8. GRADING SHALL BE DIRECTED AWAY FROM THE HOUSE. NO WATER SHALL BE ALLOWED TO POND ADJACENT TO THE STRUCTURE AT ANY TIME.
9. SELECT FILL SHALL BE SPREAD IN 8" LIFTS, AND COMPACTED TO AT LEAST 95 PERCENT OF ITS MAXIMUM DRY DENSITY.
10. CLEAR MINIMUM COVERAGE OF CONCRETE OVER REINFORCING BARS SHALL BE PER ACI 318: CONCRETE CAST AGAINST EARTH = 3"; FORMED CONCRETE AGAINST EARTH = 1- 1/2"; AND TOP OF STABS ON GRADE = 3/4".
11. REVIEW AND STAMP IS PROVIDED SOLELY FOR THE ISSUANCE OF A PERMIT. NO CONSTRUCTION SUPERVISION WILL BE PROVIDED. THE CONTRACTOR IS RESPONSIBLE TO MAKE SURE ALL CODES ARE FOLLOWED.

1. NO GEOTECHNICAL ANALYSIS HAS BEEN PERFORMED. A MINIMUM ALLOWABLE BEARING CAPACITY OF 1,000 PSF WAS ASSUMED. OWNER SHOULD OBTAIN A SOILS REPORT TO VERIFY CONDITIONS PRIOR TO CONSTRUCTION. FAILURE TO PROPERLY TEST OR COMPACT SOILS WILL VOID ENGINEERS DESIGN AND HOLD ENGINEER HARMLESS IF DIFFERENTIAL SETTLEMENT WERE TO OCCUR.

SITE PREPARATION NOTES:

1. THE EXISTING GROUND BENEATH THE BUILDING SHALL BE STRIPPED TO A MINIMUM DEPTH NECESSARY TO REMOVE ALL VEGETATION AND ROOTS AND TO REACH FIRM UNDISTURBED GROUND.
2. ALL DEPRESSION, STUMP HOLES, AND WEAK AREAS SHALL BE THOROUGHLY CLEANED OUT TO THE SURFACE OF UNDISTURBED SOIL AND BACKFILLED WITH STRUCTURAL FILL MATERIAL.
3. STRUCTURAL FILL MATERIAL SHALL BE SELECT GRANULAR MATERIAL SUCH AS HYDRAULICALLY PUMPED SAND. SELECT FILL SHOULD BE NON-PLASTIC, FREE OF ROOTS, WOOD, AND OTHER DELITERIOUS MATERIALS, AND HAVE NO MORE THAN 10% BY WEIGHT OF MATERIAL PASSING A U.S. STANDARD NO. 200 MESH SIEVE.

FRAMING NOTES

1. ALL WOOD FRAMING, FABRICATION AND ERECTION SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR THE WOOD CONSTRUCTION BY THE "NFPA". THE PLYWOOD DESIGN SPECIFICATION BY THE "APA" AND MEET THE REQUIREMENTS OF THE STANDARD BUILDING CODE. ALL WOOD CONNECTIONS SHALL BE IN ACCORDANCE WITH THE FASTENING SCHEDULE OF THE IRC AND ALL APPLICABLE CODES THEREIN.
2. ALL EXPOSED WOOD FRAMING OR FRAMING IN CONTACT WITH CONCRETE OR MASONRY SHALL BE TREATED.
3. WHERE LUMBER IS INDICATED AS TREATED OR IS SPECIFIED HEREIN TO BE TREATED, COMPLY WITH THE APPLICABLE REQUIREMENTS OF AWPA STANDARDS C2 FOR LUMBER AND OF AWPB STANDARDS.
4. BLOCK ALL STUDS AT MID-HEIGHT. RAMSET BOTTOM PLATE OF STUD WALLS TO CONCRETE WITH 1/4" RAMSETS AT 16" O.C., EMBEDDED A MIN. IN CONCRETE WITH 1/2" HOOK.
5. PROVIDE WOOD CROSS BRIDGING, BLOCKING AND BRACING, AS WELL AS HURRICANE CLIPS AND STRAPS AS REQUIRED BY BUILDING CODE. PROVIDE DOUBLE JOISTS AT ALL PARALLEL WALLS AND SOLID BLOCKING OVER BEARING WALLS.
6. PLYWOOD ROOF SHEATHING - "APA" RATED 24/0 5/8" THICK. PROVIDE CLIPS AT UNSUPPORTED EDGES BETWEEN ROOF RAFTERS.
7. WIND BRACING, PROVIDE "APA" RATED 4' X 8' X 1/2" PLYWOOD ON ALL EXTERIOR WALL CORNERS AND A MAX. OF 25' O.C. ALONG EXTERIOR WALLS FROM SLAB TO UNDERSIDE OF RAFTERS. PROVED SOLID BLOCKING AT ALL PANEL EDGES. NAIL PLYWOOD EDGES WITH 8d NAILS AT 4" O.C. AND 12" AT ALL INTERMEDIATE SUPPORTS.
8. JOIST HANGERS SHALL BE 16 GA. TYPE "U" AS MANUFACTURED BY SIMPSON STRONG TIES CO. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS JES JOIST HANGERS FOR JOIST AND BEAMS WITH FRAME TO BEAMS AT THE SAME ELEVATION. JOIST HANGERS SHALL BE SAME SIZE AS THE MEMBER SUPPORTED.
9. FASTENERS AND ANCHORAGES: PROVIDE SIZE, TYPE AND MATERIAL INDICATED AND PER APPLICABLE STANDARDS, COMPLYING WITH THE APPLICABLE FEDERAL SPECIFICATIONS FOR NAILS, SCREWS, BOLTS, NUTS, WASHERS AND ANCHORAGE DEVICES. WHERE TIMBER WORK IS EXPOSED TO WEATHER, PROVIDE FASTENERS AND ANCHORAGES AS PER ASTM 153.
10. PROVIDE STUD POSTS MADE UP OF MULTIPLE STUDS BENEATH END BEARING OF BEAMS. NAIL EACH STUD TO THE ADJACENT STUD IN THE POST WITH 16d NAILS AT 12" O.C., ON STUD CENTERLINE AND WITHIN 3" OF EACH END. CUT STUDS CAREFULLY TO INSURE FULL AND COMPLETE BEARING ON BOTH TOP AND BOTTOM.
11. COORDINATE FRAMING WITH HVAC DUCTS, ELECTRICAL, AND PLUMBING REQUIREMENTS.
12. BORED HOLES SHALL BE 2" CLEAR FROM TOP OF BOTTOM EDGES OF JOIST, NOT LARGER THEN 1-1/4" DIAMETER AND NOT IN THE MIDDLE OF A SPAN.

1. STRAP ALL STUDS CUT AWAY FOR PLUMBING WITH 1-1/2" WIDE, NO. 24 GAUGE GALVANIZED STRAPS.
2. ADD DOUBLE STUDS IN BEARING WALLS UNDER BEAMS SPANNING PERPENDICULAR TO THE WALL.

FRAMING CONNECTION NOTES

RAFTER RIDGE STRAP CONNECTION: SIMPSON LSTA 15
RAFTER TO TOP PLATE: SIMPSON SDWC 1500 SCREW AT EACH RAFTER
TOP PLATE TO 2ND FLOOR STUDS: SIMPSON SDWC 15600 SCREW AT EACH STUD
2ND FLOOR STUD TO FLOOR JOIST BASEPLATE: SIMPSON SDWC 15600 SCREW AT EACH STUD
2ND FLOOR BASE PLATE TO 1ST FLOOR TOP PLATE: SIMPSON SDWF 2716-TUW AT 48" O.C.
1ST FLOOR TOP PLATE TO STUD: SIMPSON SDWC 15600 AT EVERY OTHER STUD.
1ST FLOOR STUD TO BASE PLATE: SIMPSON SDWC 15600 AT EVERY OTHER STUD.
1ST FLOOR BASE PLATE TO SILL: SIMPSON SDWF 2716-TUW AT 48" O.C.

HEADER TO JACK STUD CONNECTION:
DOORS AND WINDOWS / GARAGES
- 4' <L <6' - SIMPSON SP4
- 6' <L <8' - SIMPSON STHD8
- L <10' - SIMPSON STHD8

GABLE ENDWALL UPLIFT CONNECTORS:
OUTLOOKER TO TOP PLATES - SIMPSON SDCW 1500 SCREW
BLOCKING TO TOP PLATES - SIMPSON LTP5 (USE 2)
STUDS TO PLATES - SIMPSON SDWC 1500 SCREW
TOP PLATES TO STUDS - SIMPSON SP4 / SP6

ROOF DIAPHRAGM SHEATHING:
UNBLOCKED - SIMPSON WSNTL 212 (O.C. SPACING)
ZONE 1: 6" (EDGES), 12" (FIELD)
ZONE 2: 6" (EDGES), 12" (FIELD)
ZONE 3: 4" (EDGES), 12" (FIELD)
ZONE 3 OVERHANG: 4" (EDGES), 12" (FIELD)

BLOCKED - SIMPSON WSNTL 212 (O.C. SPACING)
ZONE 1: 6" (EDGES), 12" (FIELD)
ZONE 2: 6" (EDGES), 12" (FIELD)
ZONE 3: 4" (EDGES), 12" (FIELD)
AZONE 3 OVERHANG: 4" (EDGES), 12" (FIELD)

FLOOR DIAPHRAGM - 10D COMON NAILS AT 6" O.C. (EDGES), 12" O.C. (FIELD)

BLOCKING AT EACH RAFTER - RBC (USE 1 AT EACH)

Notes:
1. Fiberboard sheathing may be stapled using 16 ga galvanized staples 1 1/8" long for 1/2" sheathing and 1 1/2" long for 25/32" sheathing. Staples to have minimum crown of 7/16" and spaced 3" o.c. at edges and 6" o.c. at bearings.
2. Drywall nails shall conform to ASTM C 514.
3. Siding applied to 5/8" net wood sheathing, 15/32" wood structural panel or 1/2" particleboard sheathing.
4. Corrosion-resistant nails spaces 6" on center at edge and 8" on center at intermediate supports. Nails shall have a minimum edge distance of 3/8".
5. Siding applied to studs spaces 16" on center maximum.
6. Siding applied directly to studs spaces 24" on center maximum.
7. Use annular or spiral thread nails for combination subfloor/underlayment.
8. Nails must be of sufficient length to accommodate thickness of siding and sheathing, if used, and allow minimum stud penetration of 1 1/2" inches.

Date:	Remarks:	App'd:

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A RESIDENTIAL PLAN FOR
Shane Lee Faucheaux

Date:	1/June/21	Designed:	
Scale:	N.T.S.	Drawn:	RJH
Job No.:		Checked:	
Drawing File: shane.DWG			

D4
Sheet No.: 4 of 4