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ARCHITECTURE
ENGINEERING
PLANNING
INVESTIGATION
EXPERT WITNESS

ADDITION TO
LOUIS NEFF
LOG HOME AT 21
LOG CABIN LANE
SLIDELL, LA

SCHEDULES
& NOTES

SCALE: AS NOTED
JOB#: 2079
DATE: 10-11-10
SHEET 6

A-3

UPLIFT CONNECTIONS- 130MPH WINDS EXP. "B"					
CONNECTION	FRAMING SPACING (in.)	ROOF SPAN (ft.)	U	L	S
ROOF ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	366	246	109K
WALL ASSEMBLY TO WALL ASSEMBLY	16" O.C.	17	366	246	109K
WALL ASSEMBLY TO FOUNDATION	16" O.C.	17	170	195	436

HEADER SPANS-FOR INT. LOADBEARING WALLS				
HEADER SUPPORTING	SIZE	BLDG. WIDTH (ft.)		
		12	24	36
ONE FLOOR (CEN. OR BDR. W.)	2x6	44'	42'	24'
	2x8	51'	50'	31'
	2x10	59'	57'	42'
	2x12	67'	64'	51'
	2x14	75'	72'	60'
	2x16	83'	79'	69'
	2x18	91'	87'	77'
	2x20	99'	95'	85'
	2x22	107'	103'	93'
	2x24	115'	111'	101'
	2x26	123'	119'	109'
	2x28	131'	127'	117'

JACK STUD REQUIREMENTS-FOR INTERIOR LOADBEARING WALLS					
HEADER SUPPORTING	SPAN (ft.)	ROOF SPAN (ft.)			
		12 FEET	3" 4.5"	5"	6.5"
ROOF AND CEILING	2	1	1	1	1
	4	1	1	1	1
	6	1	1	1	1
	8	1	1	1	1
	10	1	1	1	1
	12	1	1	1	1
	14	1	1	1	1
	16	1	1	1	1
	18	1	1	1	1
	20	1	1	1	1
	22	1	1	1	1
	24	1	1	1	1

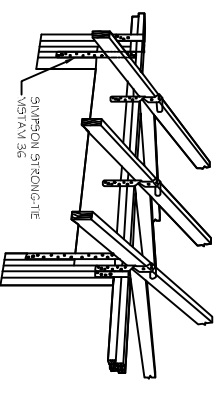
THERMAL COMPONENT CRITERIA (U-FACTOR AND R-VALUE)					
MINIMUM INSULATION R-VALUE					
MAX. GLAZING U-FACTOR	CEILINGS	WALLS	FLOORS	BASEMENT WALLS	CRAWL SPACE WALLS
.75	R-26	R-13	R-11	R-5	R-5

WINDBORNE DEBRIS PROTECTION FASTENING SCHEDULE FOR WOOD STRUCTURAL PANELS					
FASTENER TYPE	FASTENER SPACING			FASTENER TYPE	FASTENER TYPE
	4 FOOT	6 FOOT	8 FOOT		
2-1/2" #6 WOOD SCREWS	16"	12"	9"	12"	12"
2-1/2" #8 WOOD SCREWS	16"	12"	9"	12"	12"

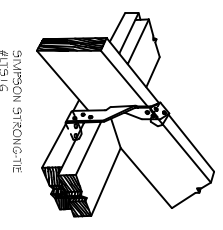
THERMAL COMPONENT CRITERIA (U-FACTOR AND R-VALUE)					
MINIMUM INSULATION R-VALUE					
MAX. GLAZING U-FACTOR	CEILINGS	WALLS	FLOORS	BASEMENT WALLS	CRAWL SPACE WALLS
.75	R-26	R-13	R-11	R-5	R-5

HEADER SPANS-EXPOSURE B FOR EXTERIOR LOADBEARING WALLS			
HEADER SIZE	SPAN	NO. FULL HGT. STUDS REQ. AT EA. END	NO. JACK STUDS
2x6	44'	2	2
2x8	52'	2	2
2x10	60'	3	3
2x12	68'	3	3
2x14	76'	3	3
2x16	84'	3	3
2x18	92'	3	3
2x20	100'	3	3
2x22	108'	3	3
2x24	116'	3	3
2x26	124'	3	3
2x28	132'	3	3
2x30	140'	3	3

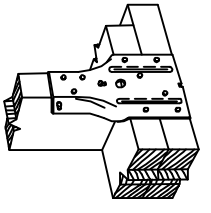
JACK STUD REQ.-EXP. B FOR EXT. LOADBEARING WALLS					
HEADER SUPPORTING	SPAN (ft.)	ROOF AND CEILING			
		3"	4.5"	5"	6.5"
ROOF AND CEILING	2	4	1	1	1
	4	6	2	2	2
	6	8	2	2	2
	8	10	3	2	2
	10	12	3	2	2
	12	14	4	3	2
	14	16	4	3	2
	16	18	4	3	2
	18	20	4	3	2
	20	22	4	3	2
	22	24	4	3	2
	24	26	4	3	2



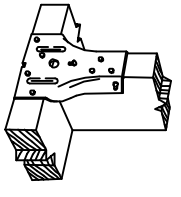
HEADER TO TOP PLATE DETAIL
NTS



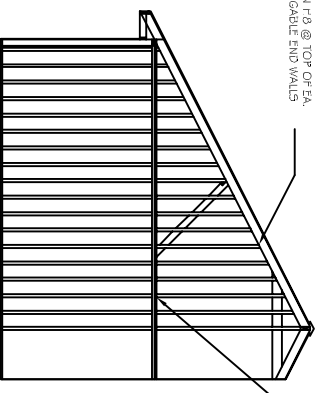
TOP PLATE TO RAFTER DETAIL
NTS



STUD TO TOP PLATE DETAIL
NTS



STUD TO SOLE PLATE DETAIL
NTS



END WALL STRAPPING
NTS

HEADER NAILING SCHEDULE			
DESCRIPTION	NUM. OF COM. NAILS	NUM. OF BOX NAILS	SPACING
HEAD, TOP END (ENCL. W/ 28)	8d	10d	6" O.C. BDRS 12" O.C. INT.

NOT TO SCALE
ALL HEADERS SHALL HAVE SOLID BLOCKING

WALL SHEATH, OR CLAD. REQ. FOR WIND LOAD-EXP. B			
SHEATHING LOCATION	STUD SPAC.	MAX. ALLOWABLE FOR 8d COM. NAILS OR 10d BOX NAILS (INCHES, O.C.)	SPACING
1/2" OR ZONE	12" O.C.	6	12
2/4" OR ZONE	12" O.C.	6	12
1/2" OR ZONE	12" O.C.	6	12
2/4" OR ZONE	12" O.C.	6	12
1/2" OR ZONE	12" O.C.	6	12
2/4" OR ZONE	12" O.C.	6	12

ROOF SHEATH, OR CLAD. REQ. FOR WIND LOAD-EXP. B			
SHEATHING LOCATION	RAFTER/TRUSS SPAC.	MAX. ALLOWABLE FOR 8d COM. NAILS OR 10d BOX NAILS (INCHES, O.C.)	SPACING
1/2" OR ZONE	12" O.C.	6	12
2/4" OR ZONE	12" O.C.	6	12
1/2" OR ZONE	12" O.C.	6	12
2/4" OR ZONE	12" O.C.	6	12
1/2" OR ZONE	12" O.C.	6	12
2/4" OR ZONE	12" O.C.	6	12

SILL or BOTTOM PLATE TO FND. CONNECTIONS RESISTING UPLIFT LOADS- 130MPH WINDS EXP. "B"			
BOTTOM PLATE TO FND. ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAX. ANCHOR BOLT SPACING (in)	# END ZONES
1-3 STORIES	1-3 STORIES	24	28

SILL or BOTTOM PLATE TO FND. CONNECTIONS RESISTING SHEAR LOADS- 130MPH WINDS EXP. "B"			
BOTTOM PLATE TO FND. ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAX. ANCHOR BOLT SPACING (in)	1/2" ANC. BOLTS
1-3 STORIES	1-3 STORIES	30	45

UPLIFT CONNECTIONS
ROOF ASSEMBLY TO WALL ASSEMBLY
UPLIFT CONNECTIONS SHALL BE FROM RAFTER OR TRUSS TO WALL STUD, WHICH RAFTERS OR TRUSSES ARE NOT LOCATED DIRECTLY ABOVE STUDS. RAFTERS SHALL BE ATTACHED TO THE WALL PLATE AND THE WALL TOP PLATE SHALL BE ATTACHED TO THE WALL STUD WITH UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.

WALL ASSEMBLY TO WALL ASSEMBLY
STORY TO STORY UPLIFT CONNECTIONS FROM UPPER STORY WALL STUDS TO LOWER STORY WALL STUDS SHALL BE ATTACHED TO THE STUDS ASSEMBLY BY UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.
WALL ASSEMBLY TO FOUNDATION
FIRST FLOOR WALL STUDS SHALL BE CONNECTED TO THE FOUNDATION, SILL, PLATE, OR BOTTOM PLATE. A MINIMUM OF A 1-1/4" x 20 GA. ASTM A653 GRADE 53 STEEL STRAP SHALL BE NAILED TO THE WALL STUDS AND HAVE A MINIMUM EMBEDMENT OF 7 INCHES IN CONCRETE FOUNDATIONS, OR BE LAPPED UNDER THE BOTTOM PLATE. 3 INCH SQUARE WASHERS SHALL NOT EXCEED THE REQUIREMENTS. STEEL STRAPS EMBEDDED IN OR IN CONTACT WITH SUB-GRADE OR MASSONRY BLOCK FOUNDATIONS SHALL BE HOT-DIPPED GALV. MASSONRY BLOCK FOUNDATIONS SHALL BE 3/8" DIA. STEEL CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.

ROOF UNDERLAMENT APPLICATION

FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17.4-PERCENT SLOPE), UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZ. (33-PERCENT SLOPE), UNDERLAMENT SHALL BE TWO LAYERS APPLIED IN THE FOLLOWING MANNER:
APPLY A 1/8 INCH STRIP OF UNDERLAMENT FELT PARALLEL WITH AND STARTING AT THE EAVES, PASTEDED SUFFICIENTLY TO HOLD IN PLACE. STARTING AT THE EAVE, APPLY 36 INCH WIDE SHEETS OF UNDERLAMENT OVERLAPPING SUCCESSIVE SHEETS 1 1/2 INCHES, AND PASTEDED SUFFICIENTLY TO HOLD IN PLACE.
FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE) OR GREATER, UNDERLAMENT SHALL BE ONE LAYER APPLIED IN THE FOLLOWING MANNER:
UNDERLAMENT SHALL BE APPLIED SHINGLE FASHION, PARALLEL TO AND STARTING FROM THE EAVE AND LAPTED 2 INCHES, PASTEDED SUFFICIENTLY TO HOLD IN PLACE. END LAPS SHALL BE OFFSET BY 6 FEET.

SHINGLE APPLICATION/FASTENING

ASPHALT STRIP SHINGLES SHALL HAVE A MINIMUM OF SIX PASTEDERS PER SHINGLE WHERE THE ROOF IS IN ONE OF THE FOLLOWING CATEGORIES:
1. THE BASIC WIND SPEED IS 110 MPH OR GREATER AND THE EAVE IS 20 FEET OR HIGHER ABOVE GRADE.
2. THE BASIC WIND SPEED IS 120 MPH OR GREATER.
3. SPECIAL WIND ZONES.

DESIGN CRITERIA:

THE CONSTRUCTION FOR SAID RESIDENCE WHERE BASIC WIND SPEED IS 130 MILES PER HOUR, IS DESIGNED IN ACCORDANCE WITH:
AMERICAN FOREST AND PAPER ASSOCIATION (AF&PA) WOOD FRAME CONSTRUCTION MANUAL FOR ONE AND TWO FAMILY DWELLINGS (WFCM) 2001 EDITION AS WELL AS THE INTERNATIONAL RESIDENTIAL CODE (IRC) 2009 EDITION