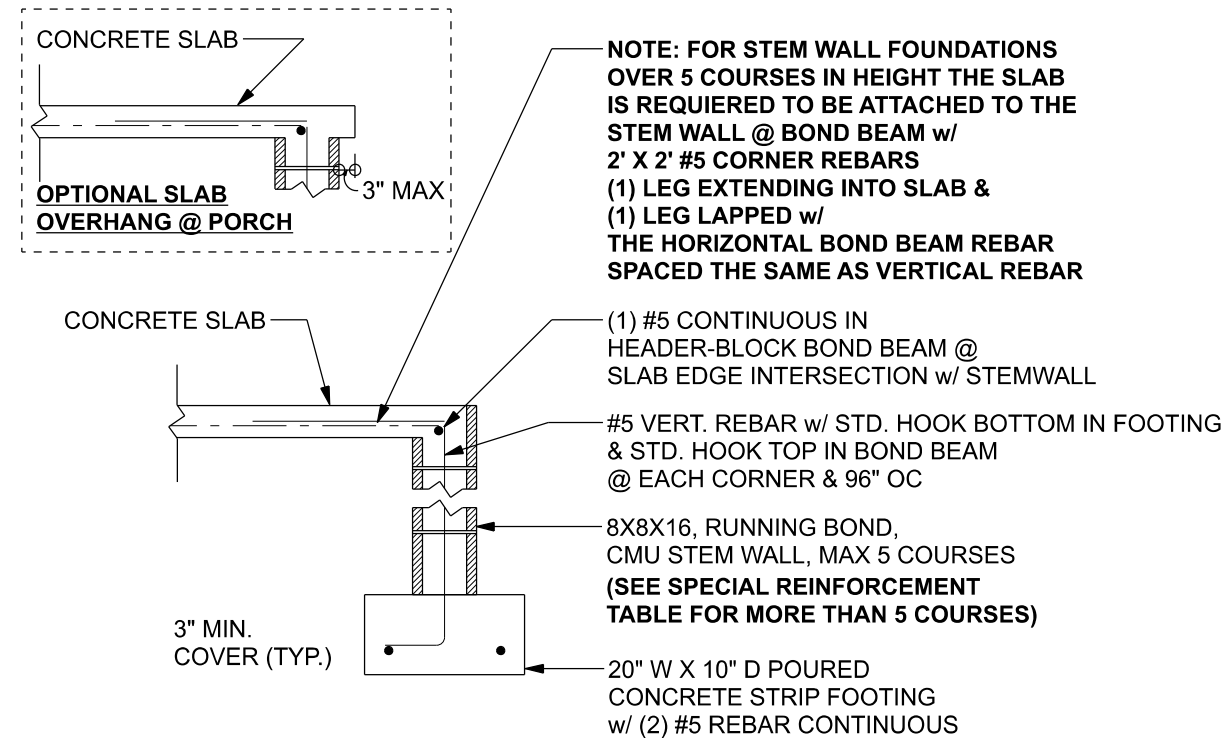


TALL STEM WALL TABLE:
The table assumes 40 ksi for #5 rebar and 60 ksi for #7 & #8 rebar with 6" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, add Durowall ladder reinforcement at 16" OC vertically or a horizontal bond beam with 1#5 continuous at mid height. For higher parts of the wall 12" CMU may be used with reinforcement as shown in the table below.

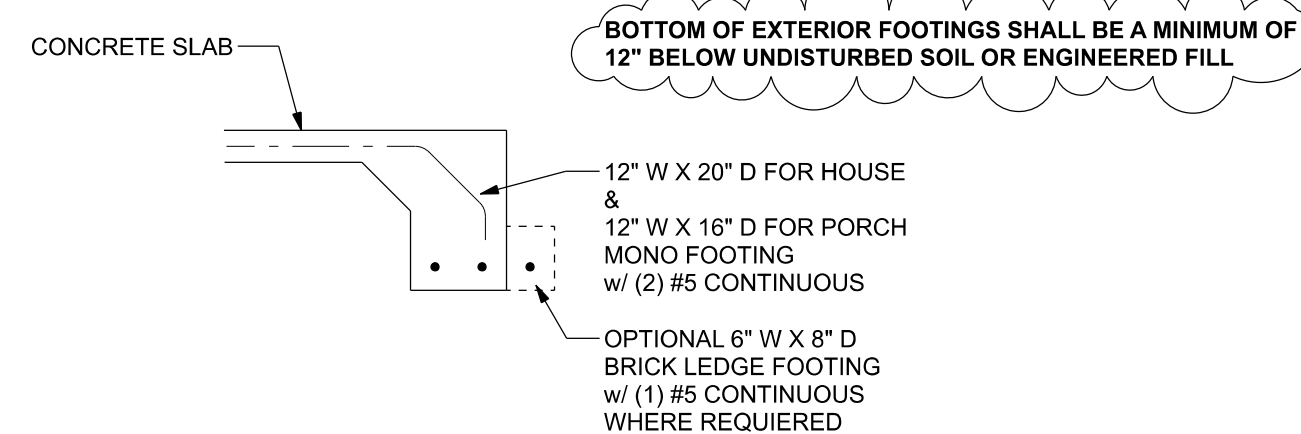
STEM WALL HEIGHT (FEET)	UNBALANCED BACKFILL HEIGHT	VERTICAL REINFORCEMENT FOR 8" CMU STEM WALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES O.C.)		
		#5	#7	#8	#5	#7	#8
3.3	3.0	96	96	96	96	96	96
4.0	3.7	96	96	96	96	96	96
4.7	4.3	88	96	96	96	96	96
5.3	5.0	56	96	96	96	96	96
6.0	5.7	40	80	96	80	96	96
6.7	6.3	32	56	80	56	96	96
7.3	7.0	24	40	56	40	80	96
8.0	7.7	16	32	48	32	64	80
8.7	8.3	8	24	32	24	48	64
9.3	9.0	8	16	24	16	40	48

MASONRY NOTE:
MASONRY CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602). THE CONTRACTOR AND MASON MUST IMMEDIATELY, BEFORE PROCEEDING, NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN ACI 530.1-02 AND THESE DESIGN DRAWINGS. ANY EXCEPTIONS TO ACI 530.1-02 MUST BE APPROVED BY THE ENGINEER IN WRITING.

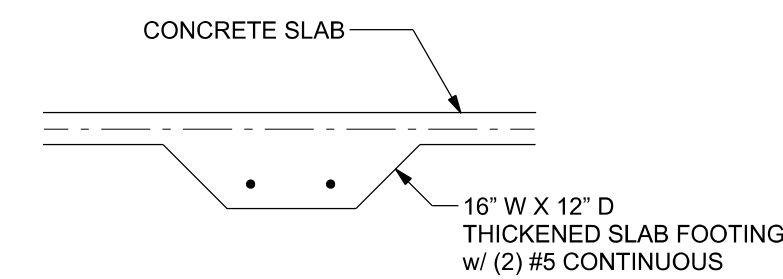
ACI 530.1-02 Section	Specific Requirements
1.4A Compressive strength	8" block bearing walls Fm = 1500 psi
2.1 Mortar	ASTM C 270, Type N, UNO
2.2 Grout	ASTM C 476, admixtures require approval
2.3 CMU standard	ASTM C 90-02, Normal weight, Hollow, medium surface finish, 8"x8"x16" running bond and 12"x12" or 16"x16" column block
2.3 Clay brick standard	ASTM C 216-02, Grade SW, Type FBS, 5.5"x2.75"x11.5"
2.4 Reinforcing bars, #3 - #11	ASTM #15, Grade 40, Fy = 40 ksi, Lap splices min 40 bar dia. (25" for #5)
2.4F Coating for corrosion protection	Anchors, sheet metal ties completely embedded in mortar or grout, ASTM A525, Class 360, 0.60 oz/lb or 304SS
2.4F Coating for corrosion protection	Joint reinforcement in walls exposed to moisture or wire ties, anchors, sheet metal ties not completely embedded in mortar or grout, ASTM A153, Class B2, 1.50 oz/lb or 304SS
3.3.E.2 Pipes, conduits, and accessories	Any not shown on the project drawings require engineering approval.
3.3.E.7 Movement joints	Contractor assumes responsibility for type and location of movement joints if not detailed on project drawings.



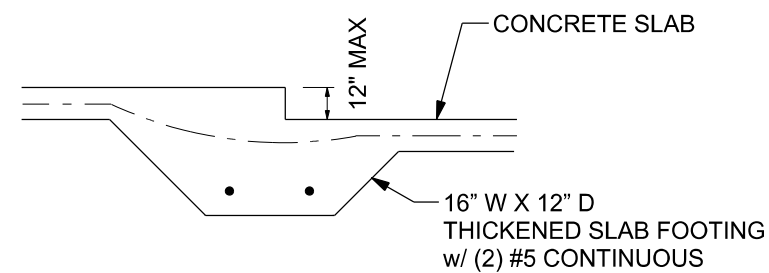
F1 S-2 STEM WALL FOOTING
SCALE: 1/2" = 1'-0"



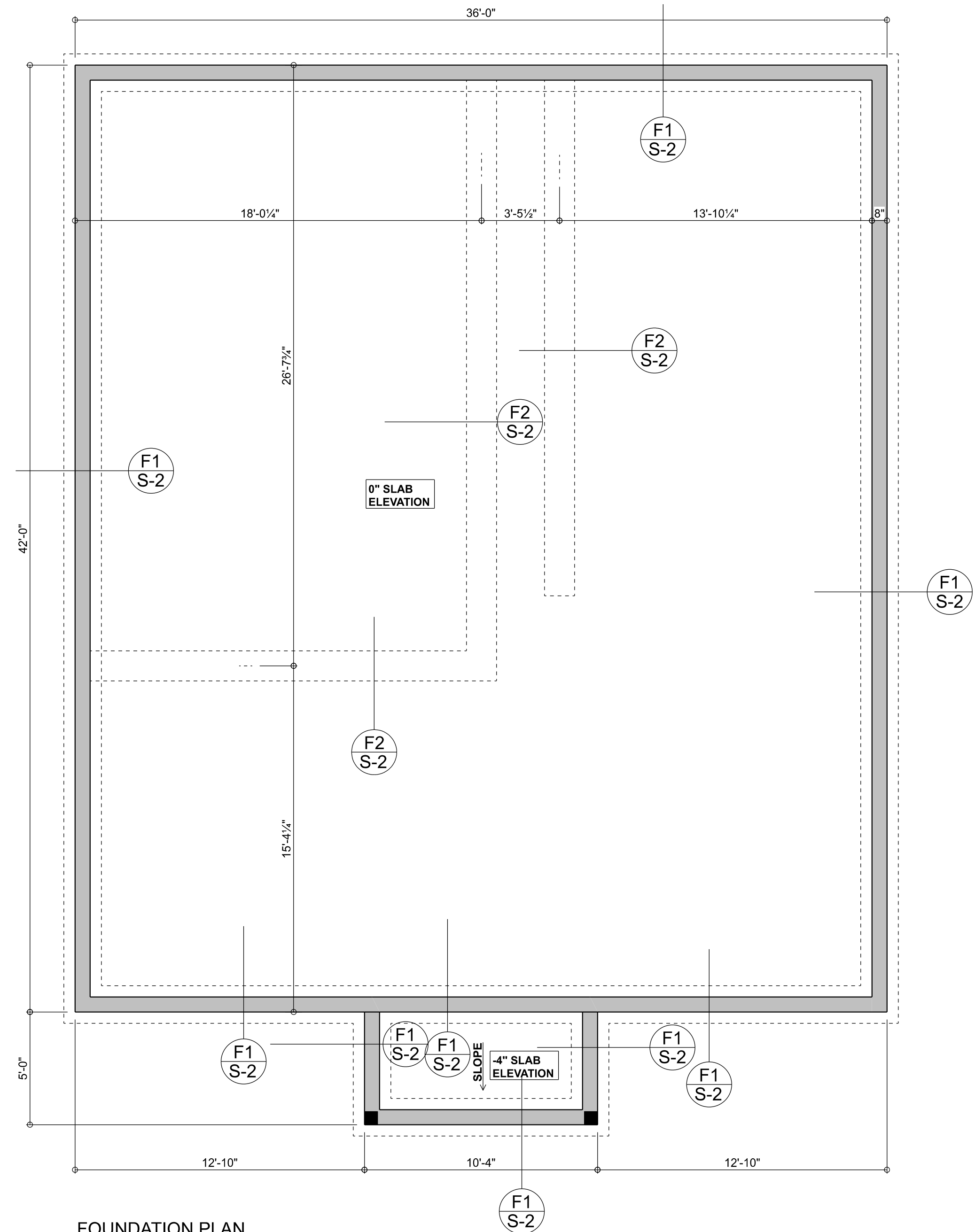
F1 S-2 OPTIONAL MONOLITHIC FOOTING
SCALE: 1/2" = 1'-0"



F2 S-2 INTERIOR BEARING FOOTING
SCALE: 1/2" = 1'-0"



F3 S-2 INTERIOR BEARING STEP FOOTING
SCALE: 1/2" = 1'-0"



FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

FOUNDATION NOTES

- DIMENSIONS ON FOUNDATION & STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL PLANS FOR ACTUAL DIMENSIONS, NECESSITIES IN SLAB, STEP DOWNS, ETC. DISOSWAY DESIGN GROUP OR MARK DISOSWAY, P.E. IS NOT RESPONSIBLE FOR DIMENSION ERRORS ON THIS PLAN.
- CONTRACTOR SHALL VERIFY NEED FOR INTERIOR BEARING IN ALL AREAS BY REVIEWING THE ROOF TRUSS PLAN (BY THE SUPPLIER) BEFORE FINALIZING FOUNDATION PLAN.
- THE SLAB SHALL BE: 4" CONCRETE SLAB REINFORCED w/ #4-14 w/ 4 WELDED WIRE MESH PLACED ON CHAIRS @ 1' DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER w/ 6" LAPS SEALED w/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL (ALSO, ANY OTHER CODE APPROVED TERMITE-TREATMENT METHOD CAN BE USED INSTEAD).

Matthew Berthold Res.
PROJECT ADDRESS:
892 S Bobcat Lane, Columbia County, FL

FL PE 53915
This item has been digitally signed and sealed by Mark Disosway, P.E. on digital signature date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

C=US, O=Florida, dnQualifier=A014 10C000017E97 DE07CA000746F0, CN=Mark d Disosway 2024-12-05 15:36:07

DIMENSIONS:
Stated dimensions supercede scaled dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification.

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CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with the 8th Edition Florida Building Code Residential (2023) to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location.

Mark Disosway P.E.
163 SW Midtown Place
Suite 103
Lake City, Florida 32025
386.754.5419
disoswaydesign@gmail.com

JOB NUMBER:
240312

S-2
OF 3 SHEETS

- RAFTERS SHALL BE IN ACCORDANCE WITH RAFTER SPAN TABLES.
- RAFTER OVERHANGS SHALL NOT EXCEED THE LESSER OF 10' RAFTER SPAN OR 24" UNO. RAKE OVERHANGS (OUTLOOKERS) ARE 24" PURINS CONNECTED PER GABLE DETAIL UNO.
- RAKE OVERHANGS SHALL NOT EXCEED THE LESSER OF 12' PURIN LENGTH OR 24"
- RAKE OVERHANGS SHALL NOT EXCEED 24" PURIN LENGTH OR 24"
- RAFTERS AND CEILING JOISTS SHALL BEARING DIRECTLY ON BEAMS, GIRDERS, LEDGERS OR BEARING WALLS OR BE SUPPORTED BY JOIST HANGERS. MINIMUM BEARING LENGTH IS 1/2" ON WOOD OR METAL AND 3" ON MASONRY OR CONCRETE.
- RAFTERS AND CEILING JOISTS HAVING A DEPTH-TO-THICKNESS RATIO EXCEEDING 5:1 SHALL HAVE LATERAL SUPPORT TO PREVENT ROTATION.
- RIDGE, HIP AND VALLEY BEAMS SHALL BE INSTALLED PER FRAMING PLANS, WITH RAFTER BEARING ON BEAM OR HANGERS. CEILING JOISTS OR RAFTER TIES ARE NOT REQUIRED WHEN RIDGE BEAM IS PROVIDED.
- RIDGE BOARDS ARE PERMITTED PROVIDED, MIN. THICKNESS IS 1" NOMINAL, DEPTH IS NOT LESS THAN CUT END OF THE RAFTERS. RAFTERS ARE PLACED DIRECTLY OPPOSITE EACH OTHER, AND WALLS ARE TIED BY RAFTER TIES, CEILING OR FLOOR SYSTEM.
- WHERE THE ROOF PITCH IS LESS THAN 3:12, STRUCTURAL MEMBERS THAT SUPPORT RAFTERS & CEILING JOISTS (RIDGES, HIP'S, & VALLEYS) SHALL BE DESIGNED AS BEAMS.
- COLLAR TIES OR RIDGE TENSION STRAPS TO RESIST WIND UPLIFT SHALL BE PROVIDED.
- A CONTINUOUS LATERAL SUPPORT SHALL BE PROVIDED TO TRANSMIT THE UPLIFT FORCES FROM RAFTER/TRUSS TIES TO THE FOUNDATION.
- CEILING JOISTS SHALL BE IN ACCORDANCE WITH CEILING JOIST SPAN TABLE.
- WHEN CEILING JOISTS ARE USED TO PROVIDE RESISTANCE TO RAFTER THRUST, LAP JOISTS MUST BE NAILED TOGETHER OR STRAPPED TOGETHER TO RESIST LOAD.
- CATHEDRAL CEILING WITHOUT CEILING JOISTS OR RAFTER TIES SHALL HAVE RAFTERS BEARING AT EACH END ON BEARING WALLS, HEADERS, OR RIDGE BEAMS.
- OPENINGS IN ROOF AND CEILING FRAMING SHALL BE FRAMED WITH HEADER & JOISTS/RAFTERS AT EACH SIDE OF OPENING.
- OPENINGS 4 FT. WIDE OR LESS: USE A SINGLE HEADER AND DOUBLE JOIST / RAFTER @ EACH SIDE OF OPENING AND 1/2" O.C. FIELD.
- OPENINGS MORE THAN 4 FT. WIDE: HEADER TO BE SIZED BASED ON LOAD SUPPORTED AND BE ATTACHED AT EACH END TO JOIST / RAFTER PACK WITH HANGER FOR REQ. LOAD.
- THE NUMBER OF JOISTS / RAFTERS REQUIRED TO BE ADDED TO EACH SIDE OF OPENING IS TO BE EQUAL TO HALF OF THE JOISTS / RAFTERS CUT FOR THE OPENING UNO.
- PROVIDE HANGER OR LEDGER AT HEADER FOR RAFTERS AND JOISTS OVER 8' SPAN.
- ATTACH STRUCTURAL SHEATHING PER ROOF SHEATHING DETAIL.
- PROVIDE DIAPHRAGM BLOCKING AT PANEL EDGES IN THE FIRST 2 BAYS, 48" O.C. MAX.

ROOF SYSTEM DESIGN NOTE
CONVENTIONALLY FRAMED ROOF

RAFTERS SPANS - SOUTHERN PINE #2 - ROOF LIVE LOAD = 20 PSF

RAFTER SPACING	DEAD LOAD = 10 psf					DEAD LOAD = 20 psf				
	CEILING NOT ATTACHED (L/180)	CEILING ATTACHED, FLEXIBLE (L/240)				CEILING ATTACHED, RIGID (L/240)				CEILING ATTACHED, RIGID (L/240)
12" OC	10'-4"	15'-7"	19'-8"	23'-5"	26'-0"	24'	26'	28'	24'10"	24'12"
16" OC	9'-0"	13'-6"	17'-1"	20'-3"	23'-10"	21'-0"	23'-0"	25'-0"	21'-0"	23'-0"
19.2" OC	8'-2"	12'-3"	15'-7"	18'-6"	21'-9"	19'-1"	21'-9"	23'-6"	19'-0"	21'-0"
24" OC	7'-4"	11'-5"	14'-11"	17'-8"	20'-6"	17'-8"	20'-6"	22'-11"	16'-4"	18'-10"

SPANS IN TABLE ARE THE MAX ALLOWABLE HORIZONTAL SPAN OF MEMBER INSIDE TO INSIDE OF BEARING. FOR SLOPING RAFTERS, SPANS ARE THE HORIZONTAL PROJECTION. THE TABULATED RAFTER SPANS ASSUME CEILING JOISTS OR RAFTER TIES ARE LOCATED AT THE BOTTOM OF THE ATTIC SPACE TO RESIST THRUST WHEN CEILING JOISTS OR RAFTER TIES ARE LOCATED HIGHER IN THE ATTIC SPACE AND ARE USED TO RESIST THRUST. THE RAFTER SPANS SHALL BE REDUCED USING THE FACTORS GIVEN IN THE TABLE BELOW:

LATERAL DEFLECTION OF THE RAFTER BELOW THE RIDGE TIE MAY EXCEED 3/4" WHEN RAFTER TIES ARE LOCATED ABOVE ONE THIRD OF THE TOP PLATE TO RIDGE HEIGHT, H, OR WHEN H IS GREATER THAN 2' AND MAY REQUIRE ADDITIONAL CONSIDERATION.

SPANS CHECKED FOR LIVE LOAD DEFLECTION ONLY.

FOR MAX DEFLECTION FOR WIND LOADS SEE WFCM TABLES 3.20M

H _c / H _r	RAFTER SPAN	ADJUSTMENT FACTOR
1/2	0.58	0.58
1/3	0.67	0.67
1/4	0.76	0.76
1/5	0.83	0.83
1/6	0.90	0.90
1/7.5 OR LESS	1.00	1.00

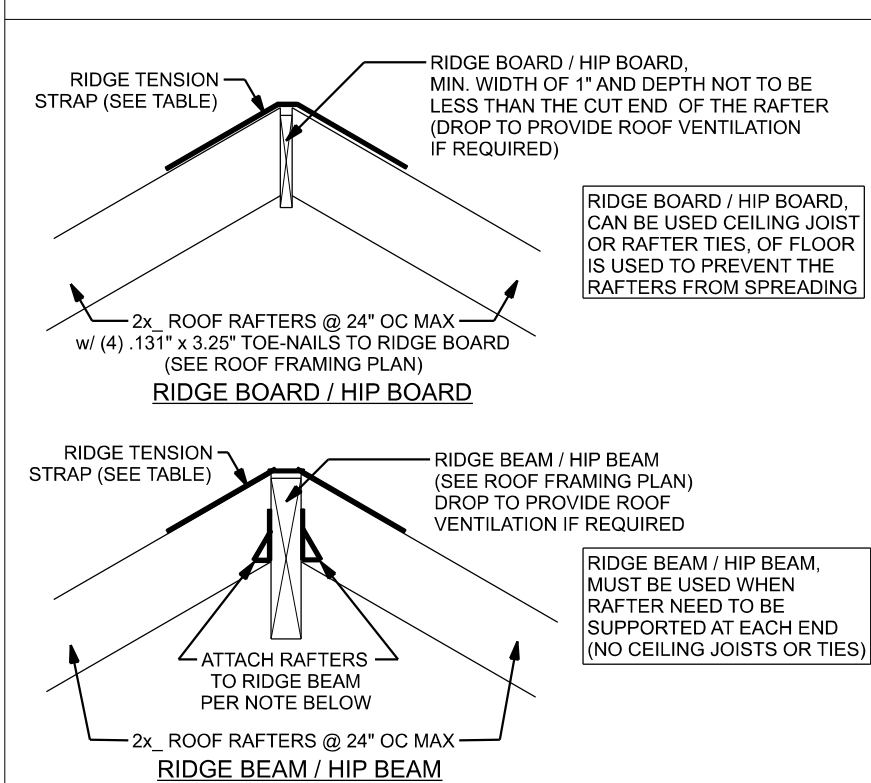
RAFTERS SPAN TABLE (SP#2)
BASED ON WFCM TABLES 3.62A-L & FOOTNOTES

RAFTERS / TRUSS FRAMING TO WALL CONNECTION FOR WIND LOAD (LBS)

WIND SPEED	110 MPH					120 MPH					140 MPH					170 MPH							
	U	L	S	U	L	S	U	L	S	U	L	S	U	L	S	U	L	S					
12" OC	12	36	110	58R	127	131	69R	161	154	81R	198	179	94R	238	205	108	281	233	123	327	263	138	
16" OC	16	112	151	193	238	288	353	423	493	563	633	703	773	843	913	983	1053	1123	1193	1263	1333	1403	
19.2" OC	20	130	175	224	278	332	386	440	494	548	602	656	710	764	818	872	926	980	1034	1088	1142	1196	1250
24" OC	24	148	200	256	318	380	442	504	566	628	690	752	814	876	938	1000	1062	1124	1186	1248	1310	1372	1434

U = CONNECTOR UPLIFT LOAD
L = CONNECTOR LATERAL LOAD (PERPENDICULAR TO THE WALL)
S = CONNECTOR SHEAR LOAD (PARALLEL TO THE WALL)
R = L/W FOR WIND PERPENDICULAR TO THE RIDGE AND W/L FOR WIND PARALLEL TO THE RIDGE, WHERE W IS THE BUILDING WIDTH AND L IS THE BUILDING LENGTH
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RAFTERS TO WALL CONNECTION
BASED ON WFCM TABLE 3.4 - EXPOSURE C



ATTACHMENT TO RIDGE BEAM PER RAFTER SPAN:
UPTO 8' SPAN = (4) 131" X 3.25" TOE NAILS
UPTO 12' SPAN = LSS28LZ-RZ (ADJUSTABLE SLOPE/SKEW HANGER)
UPTO 16' SPAN = LSS28LZ-RZ (ADJUSTABLE SLOPE/SKEW HANGER)
UPTO 19' SPAN = LRU28Z (FACE MOUNT RAFTER HANGER)
UPTO 21' SPAN = LRU28Z (FACE MOUNT RAFTER HANGER)
UPTO 24' SPAN = LRU28Z (FACE MOUNT RAFTER HANGER)

TYPICAL RIDGE CONNECTION
CONVENTIONALLY FRAMED ROOF

(TYP.) GABLE WALL BRACING DETAIL
WOOD FRAME

CEILING JOISTS SPANS FOR SOUTHERN PINE #2 UNINHABITABLE ATTICS (L/240)

CEILING JOIST SPACING	WITHOUT STORAGE					WITH LIMITED STORAGE				
	LIVE LOAD = 10 psf	LIVE LOAD = 20 psf				LIVE LOAD = 20 psf				LIVE LOAD = 10 psf
12" OC	11'-0"	16'-8"	24'-2"	28'-0"	9'-3"	13'-11"	17'-7"	20'-11"	24'-0"	28'-0"
16" OC	10'-0"	16'-11"	21'-7"	25'-7"	8'-0"	12'-0"	15'-3"	18'-1"	21'-0"	24'-0"
19.2" OC	10'-0"	16'-11"	21'-7"	25'-7"	8'-0"	12'-0"	15'-3"	18'-1"	21'-0"	24'-0"
24" OC	9'-3"	13'-11"	17'-7"	20'-11"	6'-7"	9'-10"	12'-6"	14'-9"	17'-7"	20'-11"

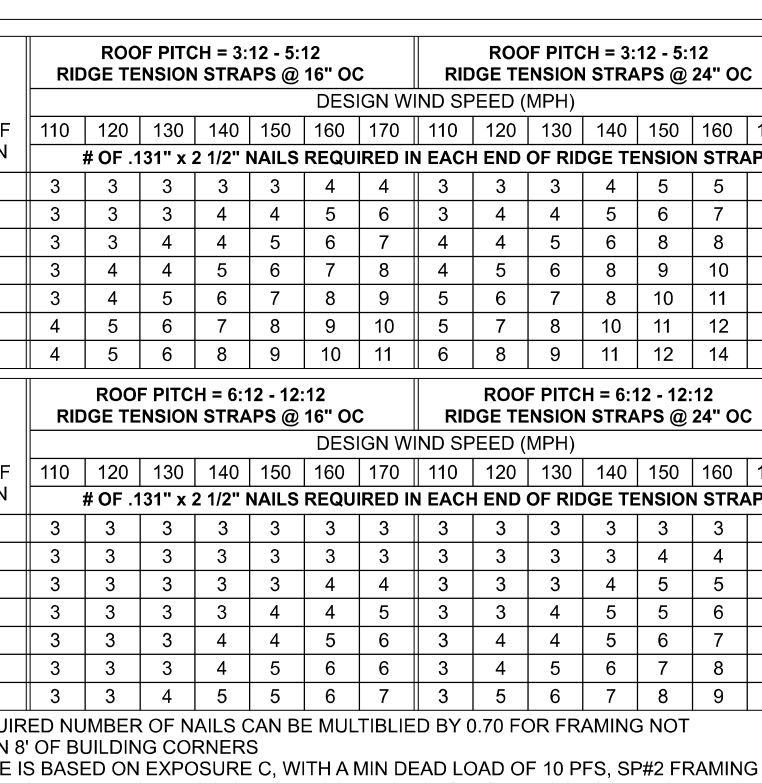
CEILING JOIST SPAN TABLE (SP#2)
BASED ON WFCM TABLES 3.25

CEILING JOIST SPAN TABLE (SP#2)

WIND SPEED	110 MPH					120 MPH					140 MPH					170 MPH							
	U	L	S	U	L	S	U	L	S	U	L	S	U	L	S	U	L	S					
12" OC	12	36	110	58R	127	131	69R	161	154	81R	198	179	94R	238	205	108	281	233	123	327	263	138	
16" OC	16	112	151	193	238	288	353	423	493	563	633	703	773	843	913	983	1053	1123	1193	1263	1333	1403	
19.2" OC	20	130	175	224	278	332	386	440	494	548	602	656	710	764	818	872	926	980	1034	1088	1142	1196	1250
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RAFTERS TO WALL CONNECTION
BASED ON WFCM TABLE 3.4 - EXPOSURE C



ATTACHMENT TO RIDGE BEAM PER RAFTER SPAN:
UPTO 8' SPAN = (4) 131" X 3.25" TOE NAILS
UPTO 12' SPAN = LSS28LZ-RZ (ADJUSTABLE SLOPE/SKEW HANGER)
UPTO 16' SPAN = LSS28LZ-RZ (ADJUSTABLE SLOPE/SKEW HANGER)
UPTO 19' SPAN = LRU28Z (FACE MOUNT RAFTER HANGER)
UPTO 21' SPAN = LRU28Z (FACE MOUNT RAFTER HANGER)
UPTO 24' SPAN = LRU28Z (FACE MOUNT RAFTER HANGER)

RIDGE TENSION STRAP NAILING
BASED ON WFCM, TABLE 3.6, EXP C

(TYP.) GABLE WALL BRACING DETAIL
WOOD FRAME

CEILING JOISTS SPANS FOR SOUTHERN PINE #2 UNINHABITABLE ATTICS (L/240)

CEILING JOIST SPACING	WITHOUT STORAGE					WITH LIMITED STORAGE				
	LIVE LOAD = 10 psf	LIVE LOAD = 20 psf				LIVE LOAD = 20 psf				LIVE LOAD = 10 psf
12" OC	11'-0"	16'-8"	24'-2"	28'-0"	9'-3"	13'-11"	17'-7"	20'-11"	24'-0"	28'-0"
16" OC	10'-0"	16'-11"	21'-7"	25'-7"	8'-0"	12'-0"	15'-3"	18'-1"	21'-0"	24'-0"
19.2" OC	10'-0"	16'-11"	21'-7"	25'-7"	8'-0"	12'-0"	15'-3"	18'-1"	21'-0"	24'-0"
24" OC	9'-3"	13'-11"	17'-7"	20'-11"	6'-7"	9'-10"	12'-6"	14'-9"	17'-7"	20'-11"

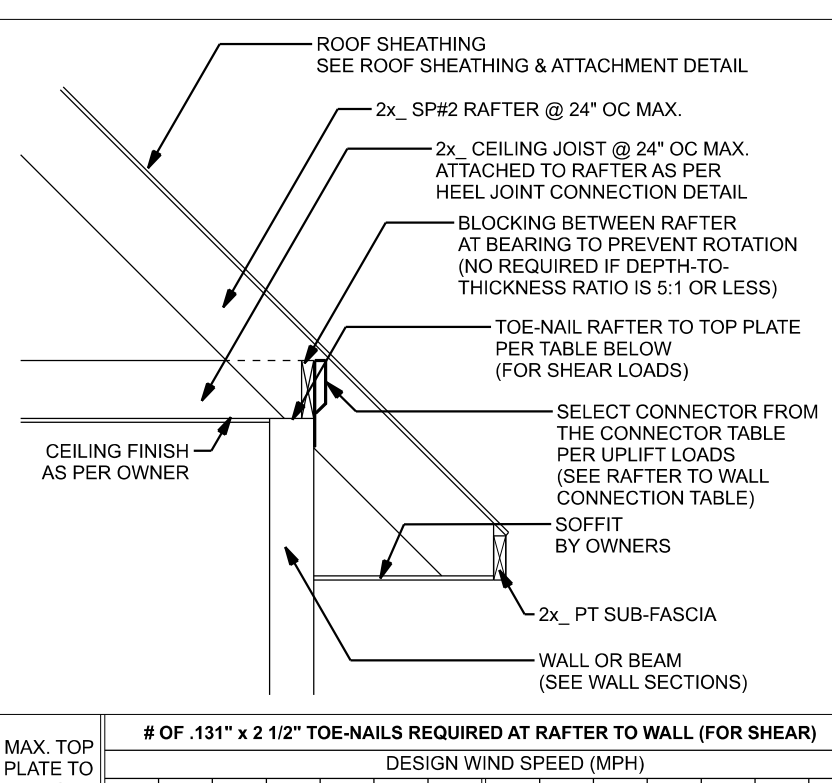
CEILING JOIST SPAN TABLE (SP#2)
BASED ON WFCM TABLES 3.25

CEILING JOIST SPAN TABLE (SP#2)

WIND SPEED	110 MPH					120 MPH					140 MPH					170 MPH							
	U	L	S	U	L	S	U	L	S	U	L	S	U	L	S	U	L	S					
12" OC	12	36	110	58R	127	131	69R	161	154	81R	198	179	94R	238	205	108	281	233	123	327	263	138	
16" OC	16	112	151	193	238	288	353	423	493	563	633	703	773	843	913	983	1053	1123	1193	1263	1333	1403	
19.2" OC	20	130	175	224	278	332	386	440	494	548	602	656	710	764	818	872	926	980	1034	1088	1142	1196	1250
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RAFTERS TO WALL CONNECTION
BASED ON WFCM TABLE 3.4 - EXPOSURE C



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RIDGE TENSION STRAP NAILING
BASED ON WFCM, TABLE 3.6, EXP C

(TYP.) GABLE WALL BRACING DETAIL
WOOD FRAME

CEILING JOISTS SPANS FOR SOUTHERN PINE #2 UNINHABITABLE ATTICS (L/240)

CEILING JOIST SPACING	WITHOUT STORAGE					WITH LIMITED STORAGE				
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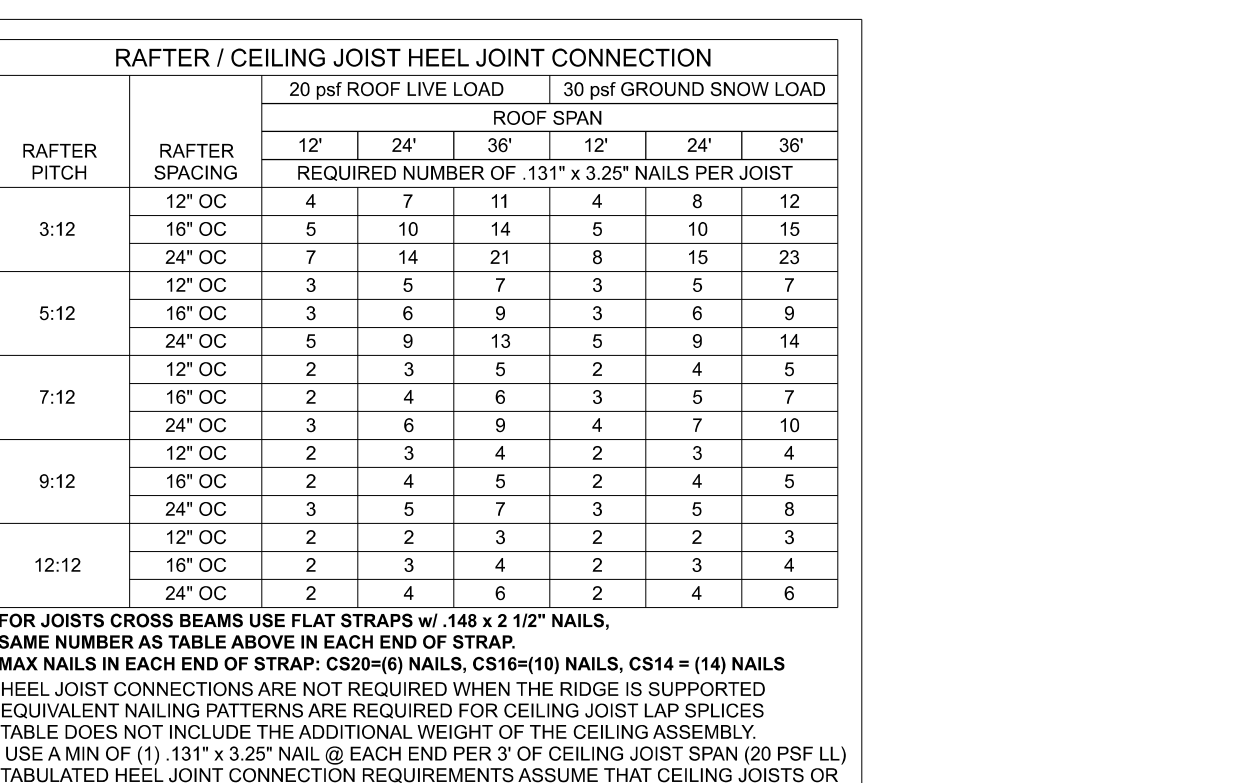
CEILING JOIST SPAN TABLE (SP#2)
BASED ON WFCM TABLES 3.25

CEILING JOIST SPAN TABLE (SP#2)

WIND SPEED	110 MPH					120 MPH					140 MPH					170 MPH							
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L = CONNECTOR LATERAL LOAD (PERPENDICULAR TO THE WALL)
S = CONNECTOR SHEAR LOAD (PARALLEL TO THE WALL)
R = L/W FOR WIND PERPENDICULAR TO THE RIDGE AND W/L FOR WIND PARALLEL TO THE RIDGE, WHERE W IS THE BUILDING WIDTH AND L IS THE BUILDING LENGTH
R = L/W FOR WIND PERPENDICULAR TO THE RIDGE AND W/L FOR WIND PARALLEL TO THE RIDGE, WHERE W IS THE BUILDING WIDTH AND L IS THE BUILDING LENGTH
R = L/W FOR WIND PERPENDICULAR TO THE RIDGE AND W/L FOR WIND PARALLEL TO THE RIDGE, WHERE W IS THE BUILDING WIDTH AND L IS THE BUILDING LENGTH
R = L/W FOR WIND PERPENDICULAR TO THE RIDGE AND W/L FOR WIND PARALLEL TO THE RIDGE, WHERE W IS THE BUILDING WIDTH AND L IS THE BUILDING LENGTH

RAFTERS TO WALL CONNECTION
BASED ON WFCM TABLE 3.4 - EXPOSURE C



ATTACHMENT TO RIDGE BEAM PER RAFTER SPAN:
UPTO 8' SPAN = (4) 131" X 3.25" TOE NAILS
UPTO 12' SPAN = LSS28LZ-RZ (ADJUSTABLE SLOPE/SKEW HANGER)
UPTO 16' SPAN = LSS28LZ-RZ (ADJUSTABLE SLOPE/SKEW HANGER)
UPTO 19' SPAN = LRU28Z (FACE MOUNT RAFTER HANGER)
UPTO 21' SPAN = LRU28Z (FACE MOUNT RAFTER HANGER)
UPTO 24' SPAN = LRU28Z (FACE MOUNT RAFTER HANGER)

RIDGE TENSION STRAP NAILING
BASED ON WFCM, TABLE 3.6, EXP C

(TYP.) GABLE WALL BRACING DETAIL
WOOD FRAME

CEILING JOISTS SPANS FOR SOUTHERN PINE #2 UNINHABITABLE ATTICS (L/240)

CEILING JOIST SPACING	WITHOUT STORAGE					WITH LIMITED STORAGE				
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