

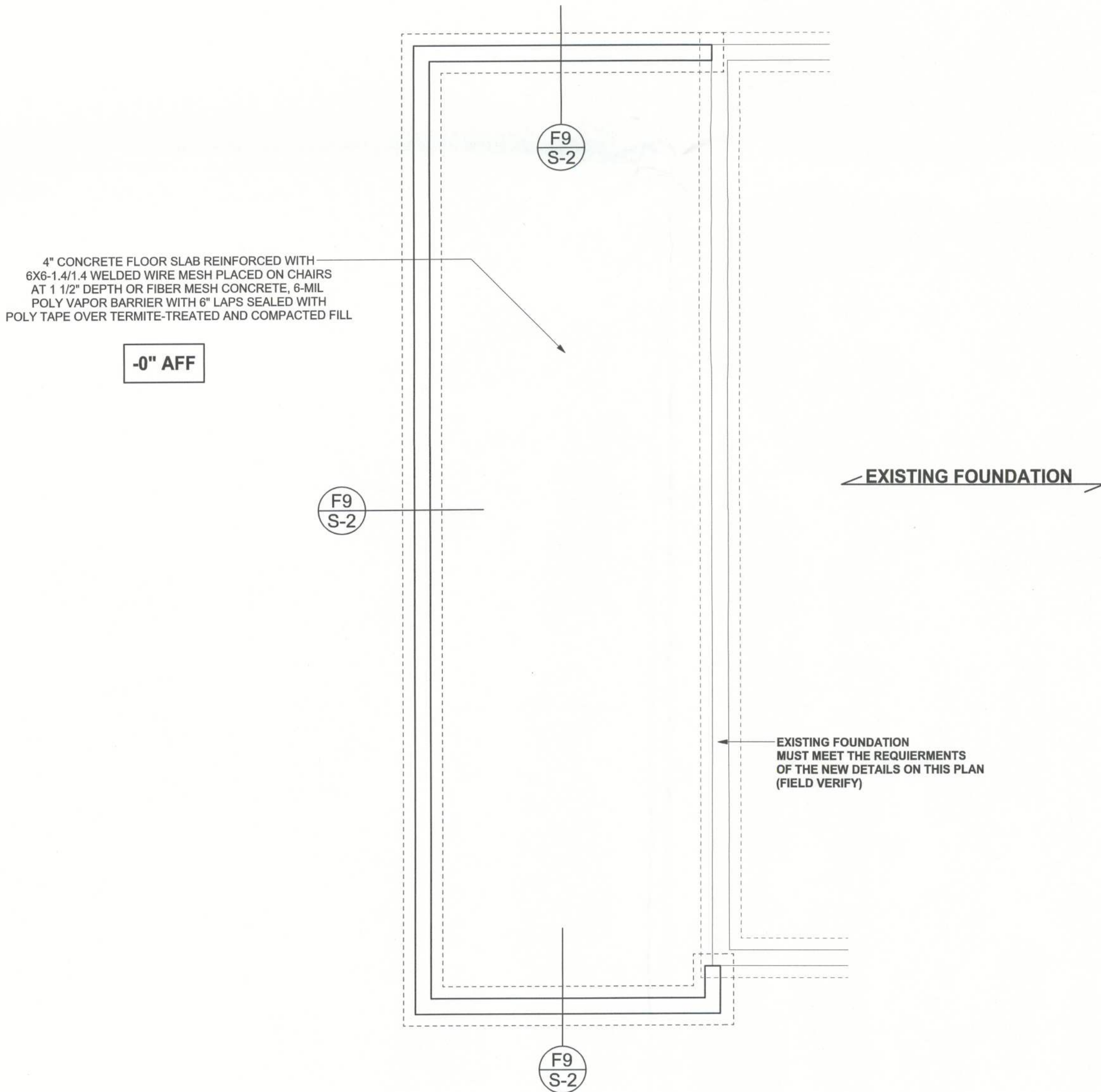
F9 S-2 STEM WALL FOOTING
SCALE: 1/2" = 1'-0"

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

TALL STEM WALL TABLE

The table assumes 60 ksi reinforcing bars 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.

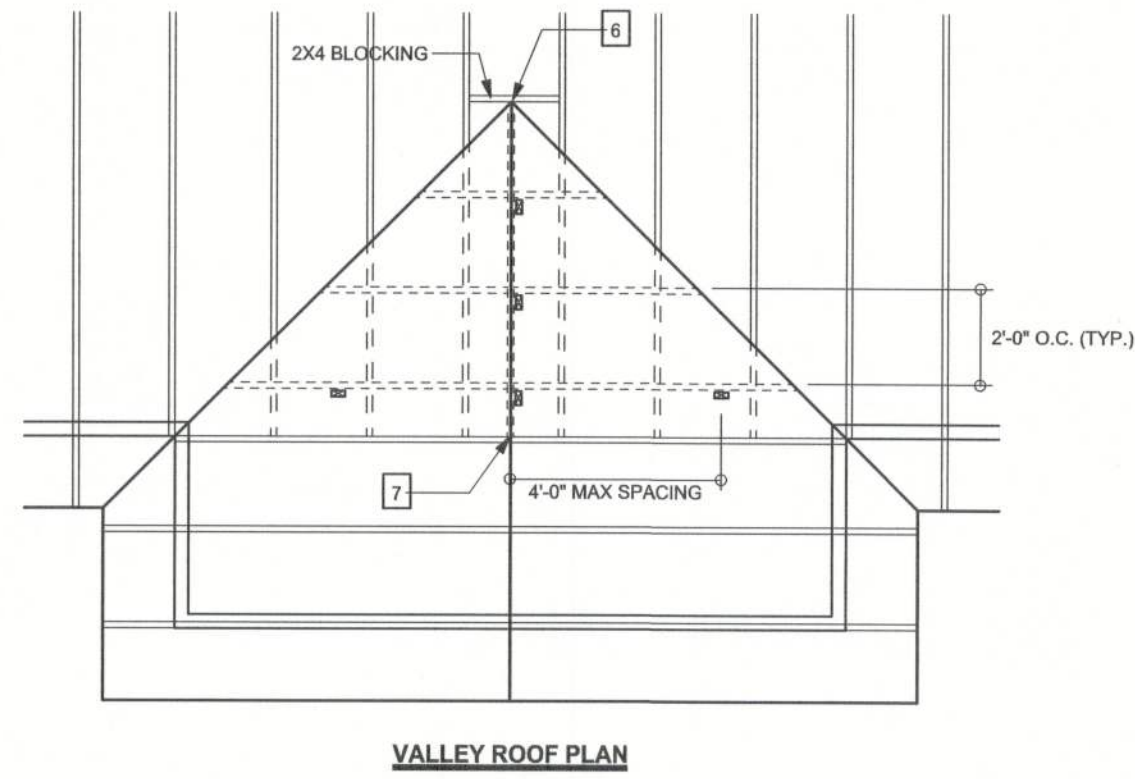
| STEM WALL HEIGHT (FEET) | UNBALANCED BACKFILL HEIGHT | VERTICAL REINFORCEMENT FOR 8" CMU STEM WALL (INCHES O.C.) | | | VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES O.C.) | | |
|-------------------------|----------------------------|---|----|----|--|----|----|
| | | #5 | #7 | #8 | #5 | #7 | #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 |



FOUNDATION PLAN
SCALE: 1/4" = 1'-0"
DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS

LUMBER SIZE & GRADE MINIMUM REQUIREMENTS

| | |
|-----------------------------|---|
| RIDGE BOARD | 2X6 SYP #2 |
| RAFTER SPANS 20'-0" OR LESS | 2X4 SYP #2 |
| PURLINS / LATERAL BRACING | 2X4 SPF #2 |
| SLEEPERS | 2X (WIDTH OF RAFTER SEAT CUT) SPF #3 OR 2 PARALLEL 2X4 SPF #3 |
| CRIPPLES & BLOCKING | 2X4 SPF #2 OR BETTER |
| TRUSS BELOW | SEE TRUSS DESIGN - SOUTHERN PINE MATERIAL |



VALLEY ROOF PLAN MEMBER LEGEND

| | |
|---------|----------------------------|
| — | TRUSS |
| — — — | TRUSS UNDER VALLEY FRAMING |
| — — — — | VALLEY RAFTER OR RIDGE |
| ■ | CRIPPLE |

CRIPPLES 4'-0" O.C. FOR 20 psf (TL) AND 10 psf (TD) (TYP. SHINGLE ROOF) MAX

CONNECTION REQUIREMENT NOTES

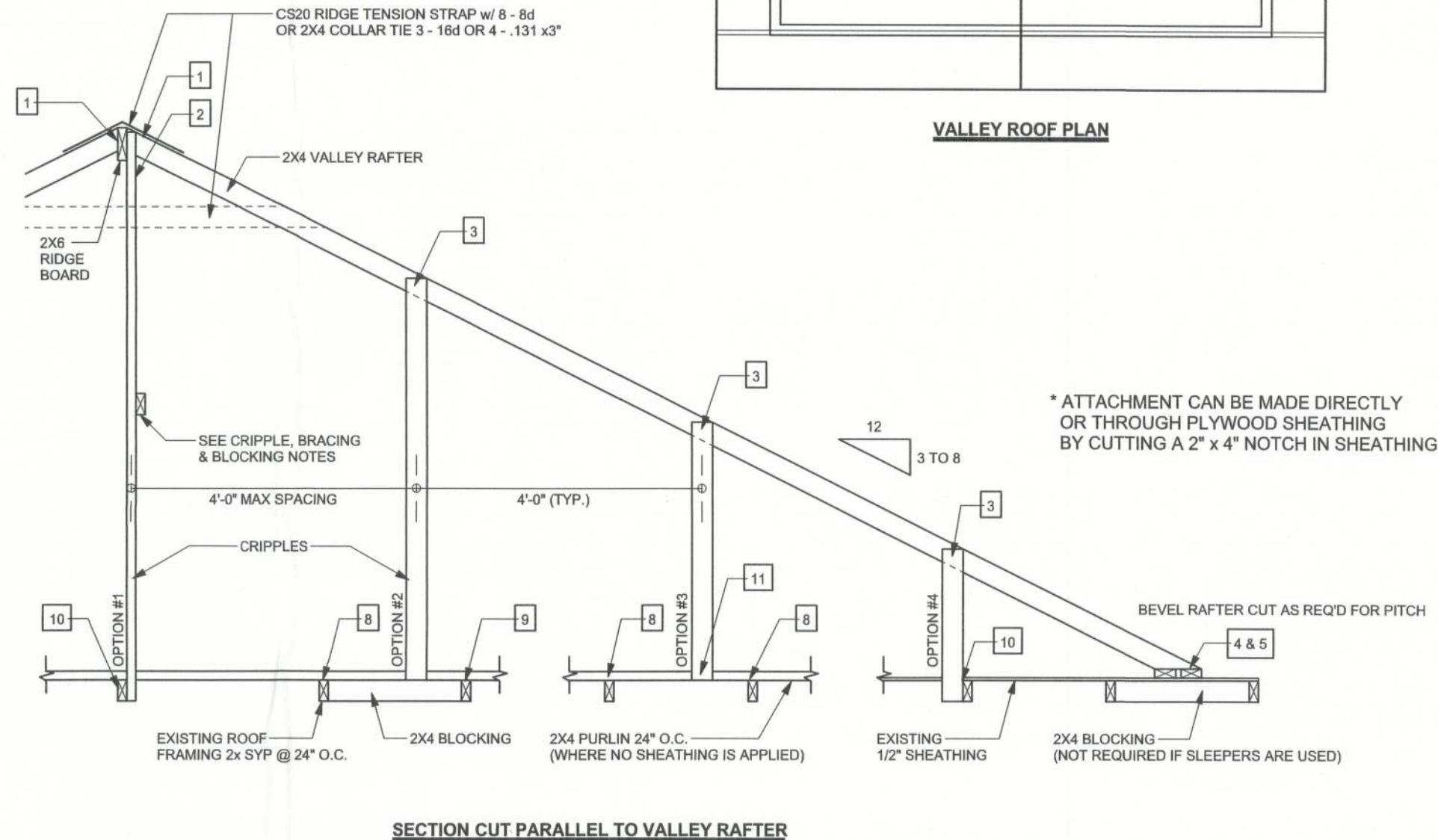
| | |
|---------------------------------|--|
| 1 2X4 RAFTERS TO RIDGE | 3-16d OR 6 - .131 x 3" TOE NAILS |
| 2 CRIPPLE TO RIDGE | 3-16d OR 6 - .131 x 3" FACE NAILS |
| 3 CRIPPLE TO RAFTERS | 3-16d OR 6 - .131 x 3" FACE NAILS |
| 4 RAFTER TO SLEEPER OR BLOCKING | 6-16d OR 12 - .131 x 3" TOE NAILS |
| 5 SLEEPER TO TRUSS | 4-16d OR 8 - .131 x 3" FACE NAILS EACH TRUSS |
| 6 RIDGE BOARD TO ROOF BLOCK | 3-16d OR 6 - .131 x 3" TOE NAILS |
| 7 RIDGE BOARD TO TRUSS | 3-16d OR 6 - .131 x 3" TOE NAILS |
| 8 PURLIN TO TRUSS (TYP.) | 3-16d OR 6 - .131 x 3" NAILS |
| 9 TRUSS TO BLOCKING | 4-16d OR 8 - .131 x 3" NAILS |
| 10 CRIPPLE TO TRUSS | 3-16d OR 6 - .131 x 3" END NAILS |
| 11 CRIPPLE TO PURLIN | 3-16d OR 6 - .131 x 3" FACE NAILS |

GENERAL NOTES

MAXIMUM RAFTER SPANS:
6'-0" FOR 2X4, 8'-0" FOR 2X6 SPF #2 OR SYP #2
MAXIMUM ROOF AREA PER SUPPORT:
16R2 IN ZONES 2 & 3, 24R2 IN ZONE 1, (EXAMPLE: 4'-0" O.C. X 4'-0" SPAN = 16R2 OR 2'-0" X 8'-0" SPAN = 16R2)
PURLINS REQUIRED 2'-0" O.C. IF EXISTING SHEATHING IS REMOVED.
PURLINS SHOULD OVERLAP SHEATHING ONE TRUSS SPACING MINIMUM.
IN CASES THAT THIS IS IMPRACTICAL, OVERLAP SHEATHING A MINIMUM OF 6" AND NAIL UPWARDS THROUGH SHEATHING INTO PURLIN WITH A MINIMUM OF 8-8d COMMON WIRE NAILS.
THIS DRAWING APPLIES TO VALLEYS WITH THE FOLLOWING CONDITIONS:
SPANS (DISTANCES BETWEEN HEELS): 4'-0" OR LESS
- MAXIMUM VALLEY HEIGHT: 14'-0" OR LESS
- MAXIMUM WIND SPEED: 120 MPH
- MAXIMUM MEAN ROOF HEIGHT: 30 FEET
- MAXIMUM TOTAL LOADING: 40 psf
MEETS FBC 2007/ASCE 7-08 WIND REQUIREMENTS
- EXPOSURE CATEGORY "B", I = 1.0, K_{st} = 1.0
- ENCLOSED BUILDING

CRIPPLE, BRACING, & BLOCKING NOTES

2X4 CONTINUOUS LATERAL BRACE (CLB) MIN. IS REQUIRED FOR CRIPPLES 5'-0" TO 10'-0" LONG NAILED W/ 2 - 10d NAILS OR 2X4 "T" OR SCAB BRACE NAIL TO FLAT EDGE OF CRIPPLE WITH 8d NAILS @ 8" O.C. "T" OR SCAB MUST BE 80% OF CRIPPLE LENGTH. CRIPPLES OVER 10'-0" LONG REQUIRE TWO CLBs OR BOTH FACES W/ "T" OR SCAB. USE STRESS GRADED LUMBER & BOX OR COMMON NAILS.
- NARROW EDGE OF CRIPPLE CAN FACE RIDGE OR RAFTER.
- AS LONG AS THE PROPER NUMBER OF NAILS ARE INSTALLED INTO RIDGE BOARD.
- INSTALL BLOCKING UNDER RAFTER IF SLEEPERS ARE NOT USED.
- INSTALL BLOCKING UNDER CRIPPLES IF CRIPPLES FALL BETWEEN LOWER TRUSS TOP CHORDS AND LATERAL BRACING IS NOT USED.
- APPLY ALL NAILING IN ACCORDANCE TO NDS-1997 SECTION 12. NAILS ARE COMMON WIRE NAILS UNLESS NOTED OTHERWISE.



SECTION CUT PARALLEL TO VALLEY RAFTER

RETROFIT ROOF OVER FRAMING & BRACING DETAIL

SCALE: N.T.S.

STRUCTURAL PLAN NOTES

- SN-1 ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X12 SYP #2 (U.N.O.)
- SN-2 ALL LOAD BEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH SIDE (U.N.O.)
- SN-3 DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS
- SN-4 PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BCSI-03, BCSI-B1, BCSI-B2, & BCSI-B3. BCSI-B1, BCSI-B2, & BCSI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

WALL LEGEND

| | |
|---------|---|
| — — — — | EXTERIOR WALL |
| — — — — | INTERIOR NON-LOAD BEARING WALL |
| — — — — | INTERIOR LOAD BEARING WALL w/ NO UPLIFT |
| — — — — | INTERIOR LOAD BEARING WALL w/ UPLIFT |

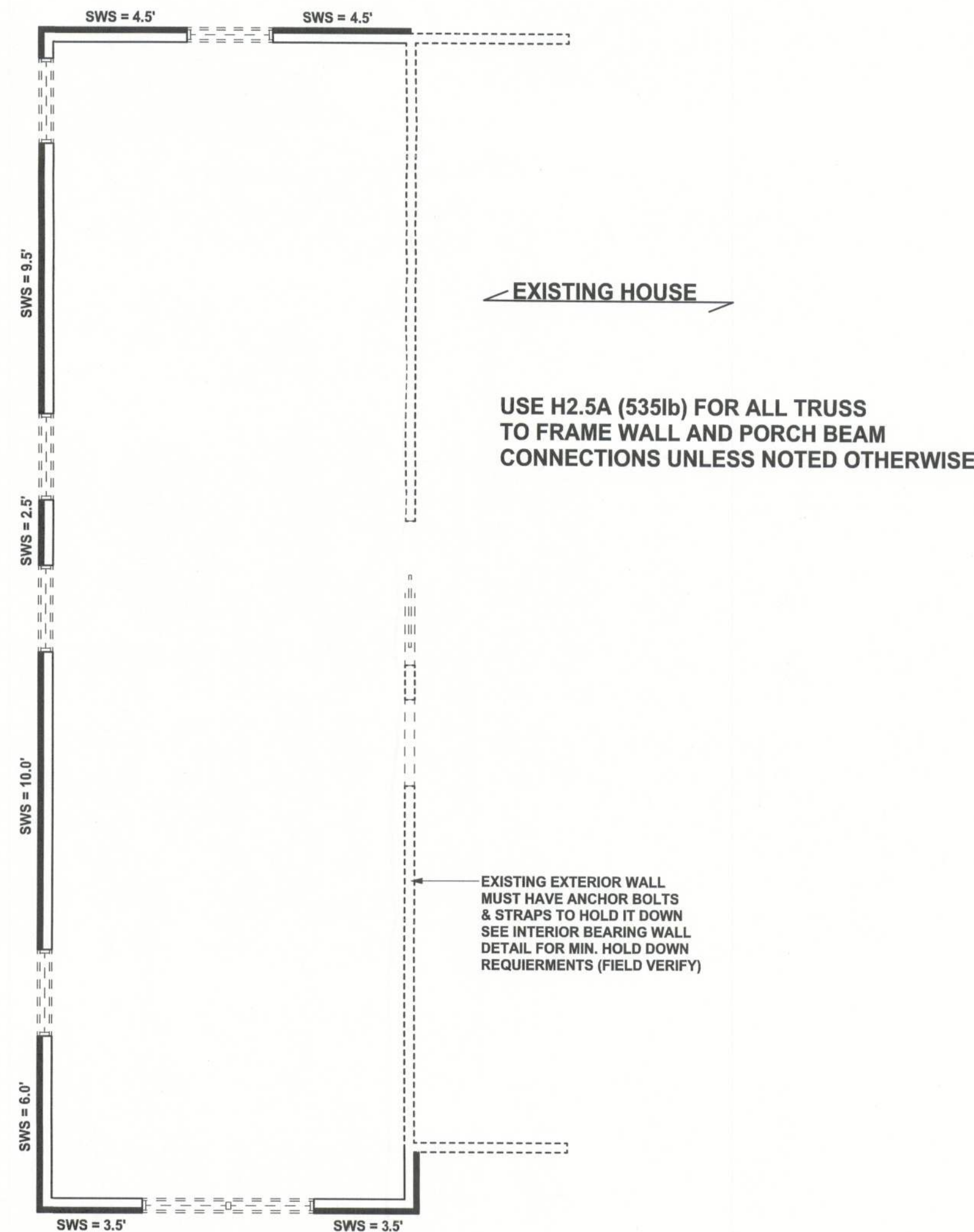
HEADER LEGEND

- (2) 2X12X7, 1/1 1K ← HEADER/BEAM CALL-OUT (U.N.O.)
- NUMBER OF KING STUDS (FULL LENGTH)
- NUMBER OF JACK STUDS (UNDER HEADER)
- SPAN OF HEADER
- SIZE OF HEADER MATERIAL
- NUMBER OF PLIES IN HEADER

TOTAL SHEAR WALL SEGMENTS

INDICATES SHEAR WALL SEGMENTS

| | REQUIRED | ACTUAL |
|--------------|----------|--------|
| TRANSVERSE | 15.0' | 28.0' |
| LONGITUDINAL | 10.0' | 16.0' |



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

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY BUILDER, ANDERSON TRUSS JOB #10-020

REVISIONS

| | |
|--|--|
| | |
| | |
| | |
| | |

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

WINDLOAD ENGINEER: Mark Disoway,
PE No. 53915, POB 868, Lake City, FL
32056, 386-754-5419

DIMENSIONS:
Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disoway, 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 section R501.2.1, Florida building code residential 2007, to the best of my knowledge.

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

MARK DISOWAY
P.E. 53915

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PRINTED DATE:
February 05, 2010
DRAWN BY: STRUCTURAL BY:
David Disoway

FINALS DATE:
5Feb10

JOB NUMBER:
1002008
DRAWING NUMBER

S-2

OF 2 SHEETS