



SPECIAL NOTICE: THE DESIGNER AND BUILDING INC. ACCEPTS NO RESPONSIBILITY FOR ERRORS AND/OR OMISSIONS IN THESE DRAWINGS. ANY CHANGES OR REVISIONS TO ANY OF THESE DRAWINGS OR ANY OF THE BUILDING INC. DRAWINGS ARE DESIGN CHANGES. ONLY THE DESIGNER HAS BEEN MADE RESPONSIBLE FOR THE DESIGN OF THE PROJECT. ANY CHANGES OR REVISIONS TO ANY OF THESE DRAWINGS OR ANY OF THE BUILDING INC. DRAWINGS ARE DESIGN CHANGES. ONLY THE DESIGNER HAS BEEN MADE RESPONSIBLE FOR THE DESIGN OF THE PROJECT. ANY CHANGES OR REVISIONS TO ANY OF THESE DRAWINGS OR ANY OF THE BUILDING INC. DRAWINGS ARE DESIGN CHANGES. ONLY THE DESIGNER HAS BEEN MADE RESPONSIBLE FOR THE DESIGN OF THE PROJECT.



- IN 10'-1 1/8" PLATE HEIGHT AREAS, PROVIDE STANDARD ENERGY HEELS • ALL 7/12 ROOF TRUSSES WITH 16" OVERHANGS
- ADJUST HEELS OF 8/12 ROOF TRUSSES WITH 16" OVERHANGS TO MATCH EAVES WITH 7/12 ROOFS
- IN 9'-1 1/8" PLATE HEIGHT AREAS, ADD 12" TO HEELS • ALL 7/12 ROOFS WITH 16" OVERHANGS TO MATCH EAVES WITH 7/12 ROOFS • 10'-1 1/8" PLATE HEIGHT AREAS

- PLATE HEIGHT VARIES • ENTIRE MAIN LEVEL
- FRAME ALL GARAGE STUDS w/ 2x6 STUDS • 16' O.C. (TYP.)

- ALL WINDOW & DOOR OPENINGS TO HAVE (2X12) #2 GRADE HEADER or BETTER (UNLESS NOTED OTHERWISE)
- TOP OF R.O. FOR ALL WINDOWS ON MAIN LEVEL TO BE 7'-10 1/2" FROM SUB-FLOOR (UNLESS NOTED OTHERWISE)

NOTE!!!
BEAMS/POSTS TO BE VERIFIED
BY AND MAY BE CHANGED BY
LUMBERYARD/SUPPLIER.

REVISIONS
XXXXXX 00000 BY:XXX
XXXXXX 00000 BY:XXX

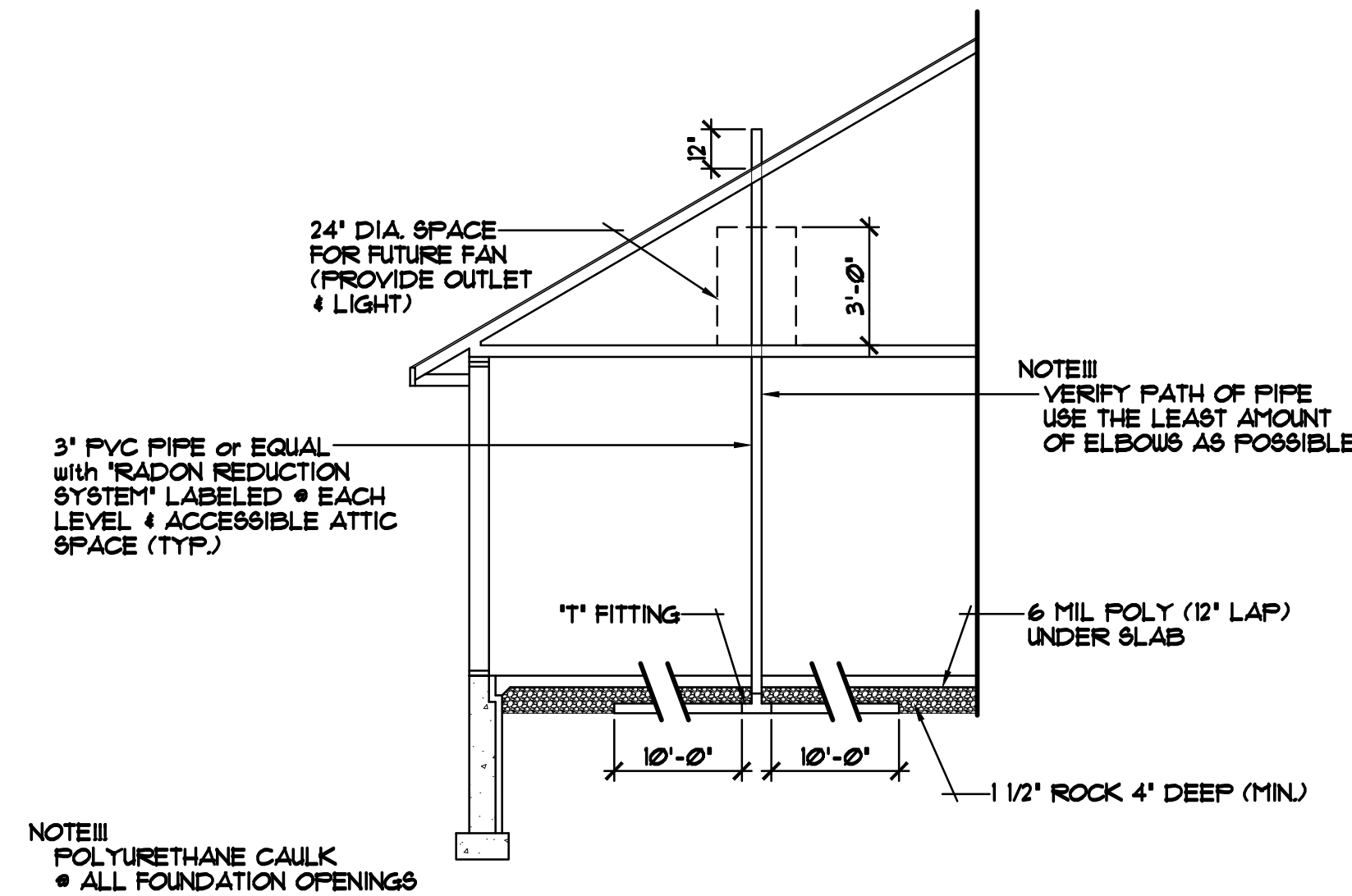
SPECIAL NOTICE
DRAWINGS ARE THE PROPERTY OF CROIX DESIGN & DRAFTING, INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF CROIX DESIGN & DRAFTING, INC. NO PART OF THESE DRAWINGS MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF CROIX DESIGN & DRAFTING, INC. NO PART OF THESE DRAWINGS MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF CROIX DESIGN & DRAFTING, INC. NO PART OF THESE DRAWINGS MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

OFFICE: 763.752.9987
FAX: 763.752.9987
ANDOVER, MINNESOTA
WWW.CROIXDESIGN.COM

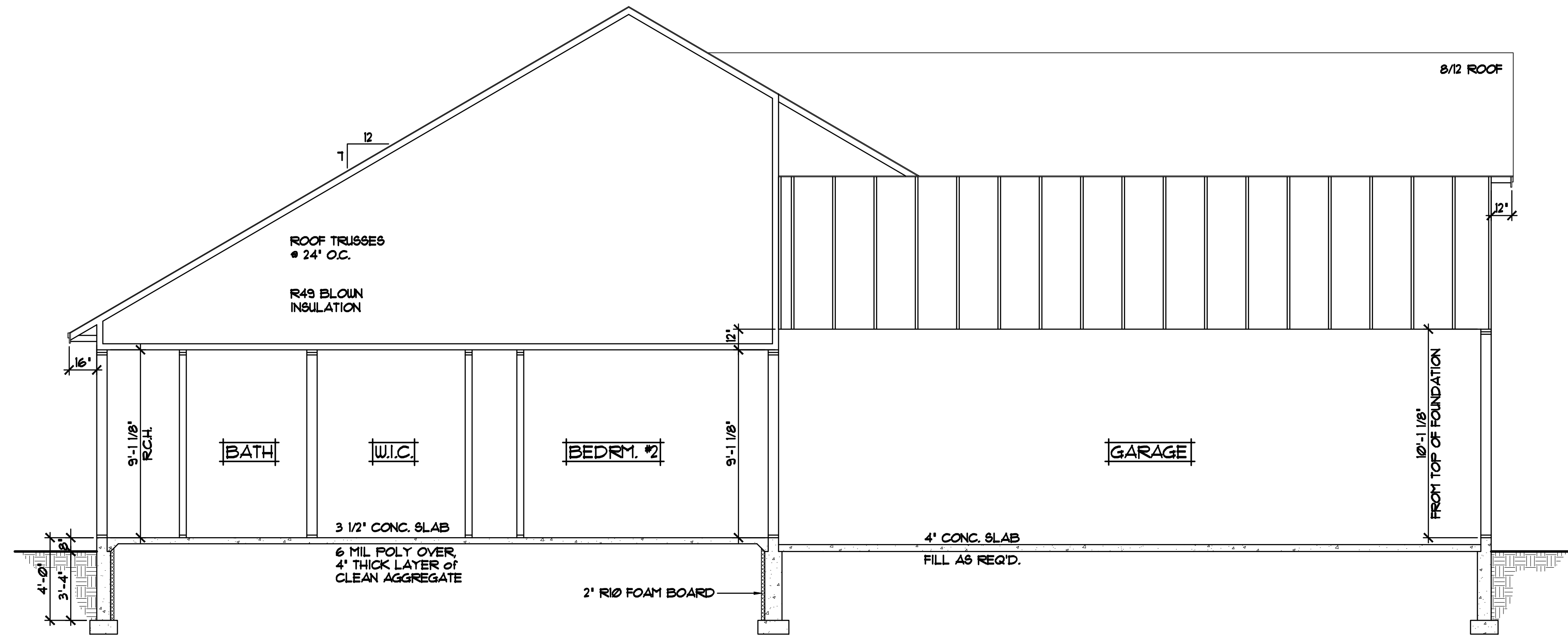


ELEVATE BUILDERS, LLC

SHEET
4
OF 6
CADD FILE #
25287



ALTERNATE METHOD FOR PASSIVE RADON MITIGATION SYSTEM



CROSS SECTION 'A' 1/4"=1'-0"

ROOF CONSTRUCTION NOTES

- IN 10'-1 1/8' PLATE HEIGHT AREAS, PROVIDE STANDARD ENERGY HEELS • ALL 7/12 ROOF TRUSSES WITH 16' OVERHANGS
- ADJUST HEELS OF 8/12 ROOF TRUSSES WITH 16' OVERHANGS TO MATCH EAVES WITH 7/12 ROOFS
- IN 9'-1 1/8' PLATE HEIGHT AREAS, ADD 12' TO HEELS • ALL 7/12 ROOFS WITH 16' OVERHANGS TO MATCH EAVES WITH 7/12 ROOFS • 10'-1 1/8' PLATE HEIGHT AREAS

- ROOF CONSTRUCTION:**
- PREMANUFACTURED ROOF TRUSSES - ENGINEERED BY SUPPLIER - SLOPES VARY - SEE PLAN
 - R49 BLOWN FIBERGLASS INSULATION
 - 1/8" ROOF VENT AT SOFFITS, 1/16" VENT AT RIDGE
 - AIR CHUTE AT EACH TRUSS SPACE
 - 15/32" ROOF SHEATHING
 - 15' ROOFING FELT
 - ICE & WATER MEMBRANE APPLIED 24' PAST EXTERIOR WALL
 - ASPHALT SHINGLES

- SOFFIT / FASCIA:**
- 2x6 SUB-FASCIA
 - ALUMINUM FASCIA COVER
 - ALUMINUM VENTED SOFFIT

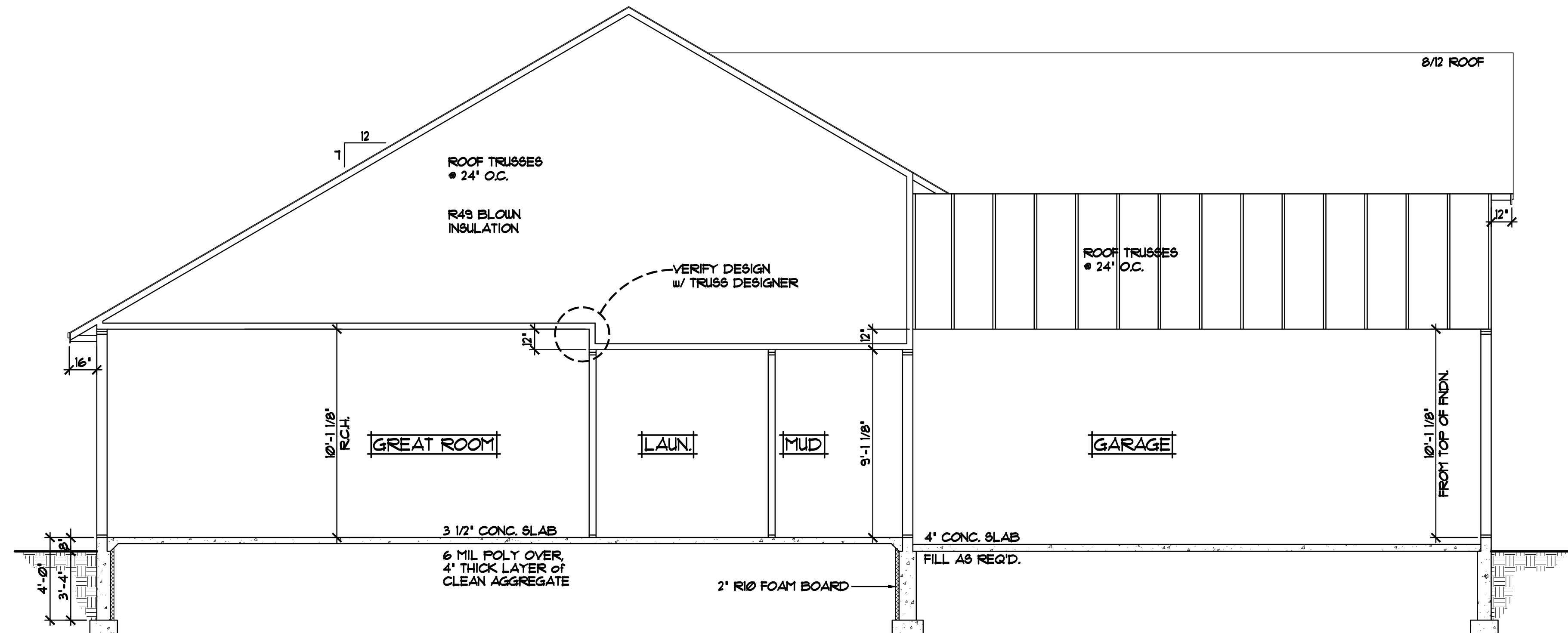
- WALL CONSTRUCTION:**
- HOUSE WRAP
 - 1/16" OSB SHEATHING
 - 2x6 STUDS • 16' O.C.
 - WINDOWS PER SPEC'S
 - R-20 F.G. BATT INSULATION
 - 4 MIL POLY VAPOR RETARDER
 - 1/2" GYPSUM BOARD

- SILL CONSTRUCTION:**
- 2x6 SILL PLATE & SEALER
 - 1/2" ANCHOR BOLTS • 12' O.C.

- FOUNDATION CONSTRUCTION:**
- POURED CONCRETE WALL FOUNDATION (WALL THICKNESS VARIES, SEE FOUNDATION PLAN FOR SIZES)

- FOUNDATION INSULATION:**
- FOUNDATION INTERIOR- 2' R-10 RIGID FOAM BOARD INSULATION

- SLAB CONSTRUCTION:**
- 3 1/2" POURED CONCRETE FLOOR
 - 6 MIL POLY VAPOR RETARDER UNDER SLAB
 - UNIFORM LAYER OF 3/4" CLEAN AGGREGATE 4" THICK (MINIMUM)
 - SAND FILL AS REQUIRED



CROSS SECTION 'B' 1/4"=1'-0"

NOTE!!!
BEAMS/POSTS TO BE VERIFIED
BY AND MAY BE CHANGED BY
LUMBERYARD/SUPPLIER.

REVISIONS
XXXXXX 00000 BY:XXX
XXXXXX 00000 BY:XXX

SPECIAL NOTICE:
CROIX DRAFTING, INC. ACCEPTS NO RESPONSIBILITY FOR ERRORS AND/OR OMISSIONS. THESE DRAWINGS ARE DESIGN CONCEPT ONLY. EVERY EFFORT HAS BEEN MADE TO PREPARE ACCURATE DRAWINGS, BUT THE USER MUST VERIFY ALL DIMENSIONS AND CONDITIONS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING ALL CONDITIONS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING ALL CONDITIONS.

OFFICE: 763.757.8997
PHONE: 763.757.8997
FAX: 763.757.8997
ANDOVER, MINNESOTA
WWW.CROIXDESIGN.COM



ELEVATE BUILDERS, LLC

SHEET
5
OF 6
CADD FILE #
25287

ROOF CONSTRUCTION:

- PREMANUFACTURED ROOF TRUSSES - ENGINEERED BY SUPPLIER - SLOPES VARY - SEE PLAN
- R49 BLOWN FIBERGLASS INSULATION
- 1/160 ROOF VENT AT SOFFITS, 1/160 VENT AT RIDGE
- AIR CHUTE AT EACH TRUSS SPACE
- 15/32" ROOF SHEATHING
- 15" ROOFING FELT
- ICE & WATER MEMBRANE APPLIED 24" PAST EXTERIOR WALL
- ASPHALT SHINGLES

SOFFIT / FASCIA:

- 2x6 SUB-FASCIA
- ALUMINUM FASCIA COVER
- ALUMINUM VENTED SOFFIT

WALL CONSTRUCTION:

- HOUSE WRAP
- 7/16" OSB SHEATHING
- 2x6 STUDS @ 16" O.C.
- WINDOWS PER SPEC'S
- R-20 F.G. BATT INSULATION
- 4 MIL POLY VAPOR RETARDER
- 1/2" GYPSUM BOARD

SILL CONSTRUCTION:

- 2x6 SILL PLATE & SEALER
- 1/2" ANCHOR BOLTS @ 12" O.C.

FOUNDATION CONSTRUCTION:

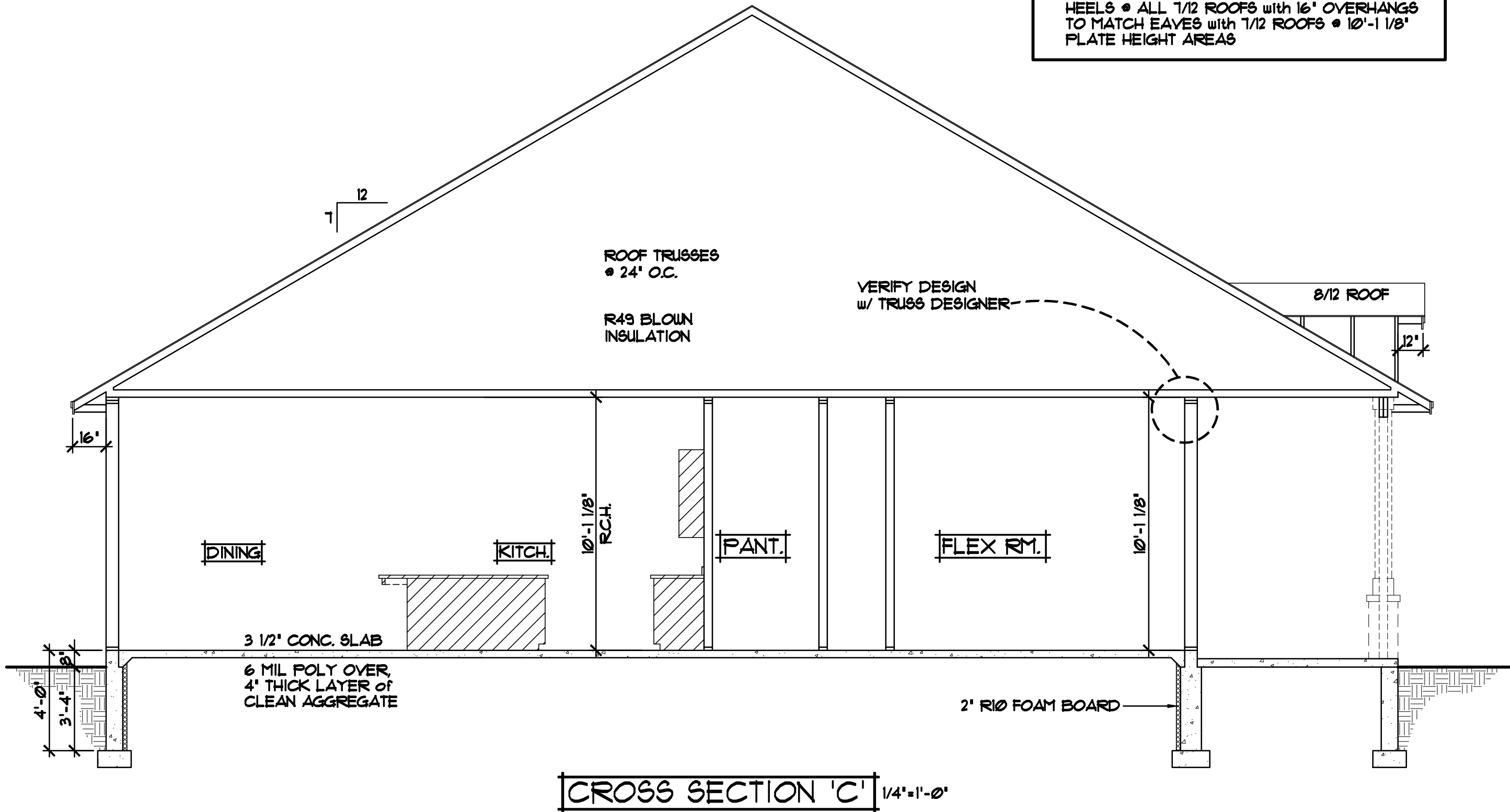
- POURED CONCRETE WALL FOUNDATION (WALL THICKNESS VARIES, SEE FOUNDATION PLAN FOR SIZES)

FOUNDATION INSULATION:

- FOUNDATION INTERIOR- 2" R-10 RIGID FOAM BOARD INSULATION

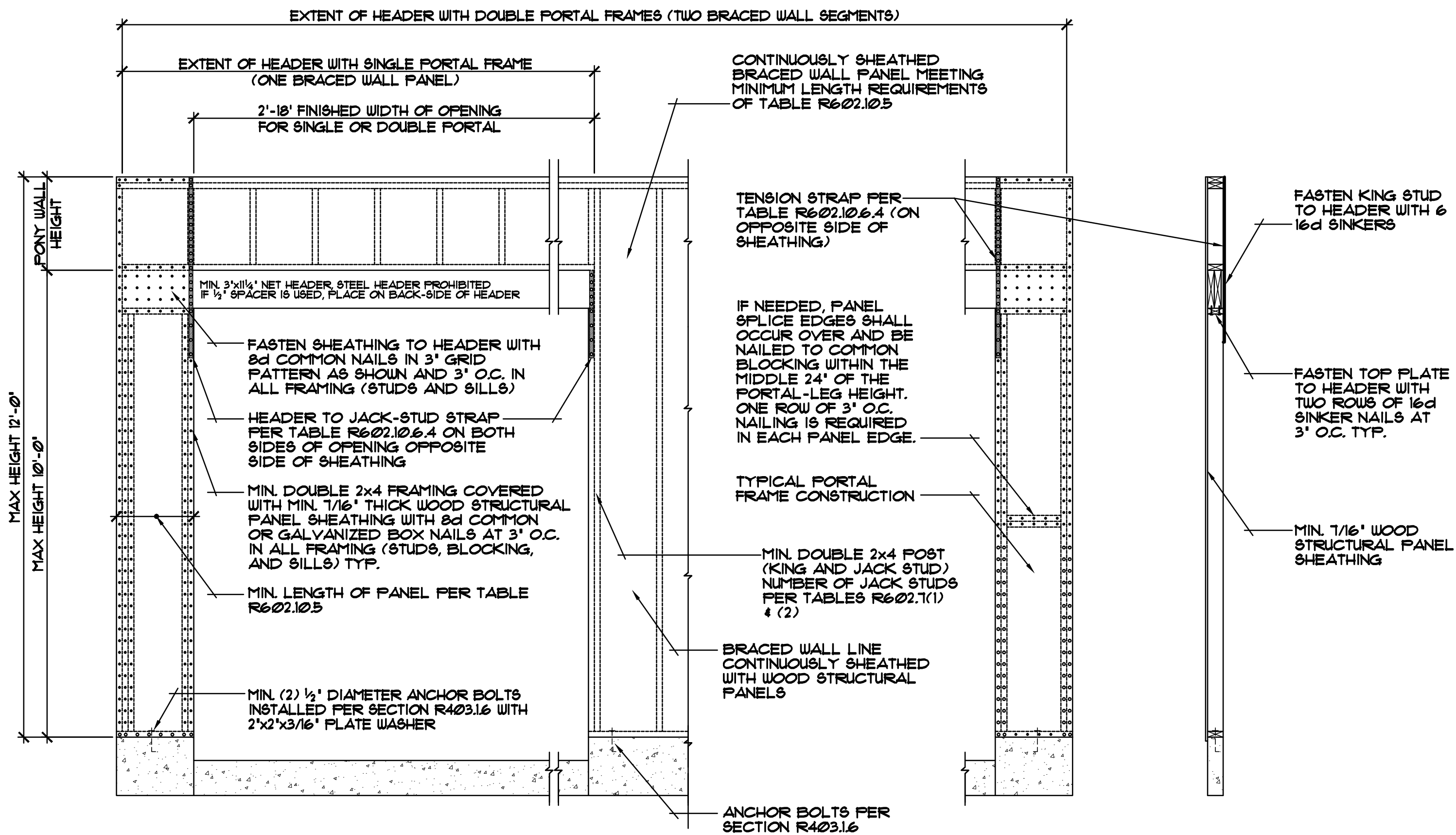
SLAB CONSTRUCTION:

- 3 1/2" POURED CONCRETE FLOOR
- 6 MIL POLY VAPOR RETARDER UNDER SLAB
- UNIFORM LAYER OF 3/4" CLEAN AGGREGATE 4" THICK (MINIMUM)
- SAND FILL AS REQUIRED

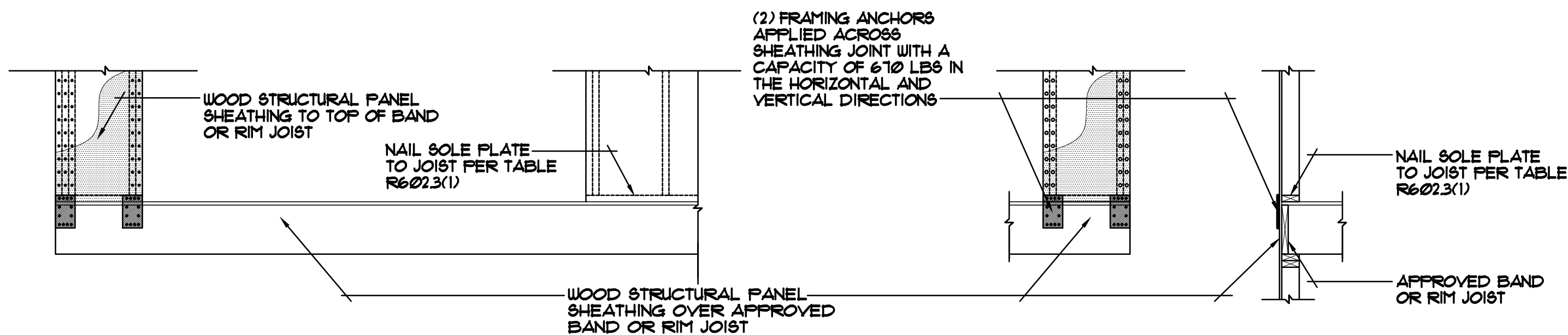


ROOF CONSTRUCTION NOTES

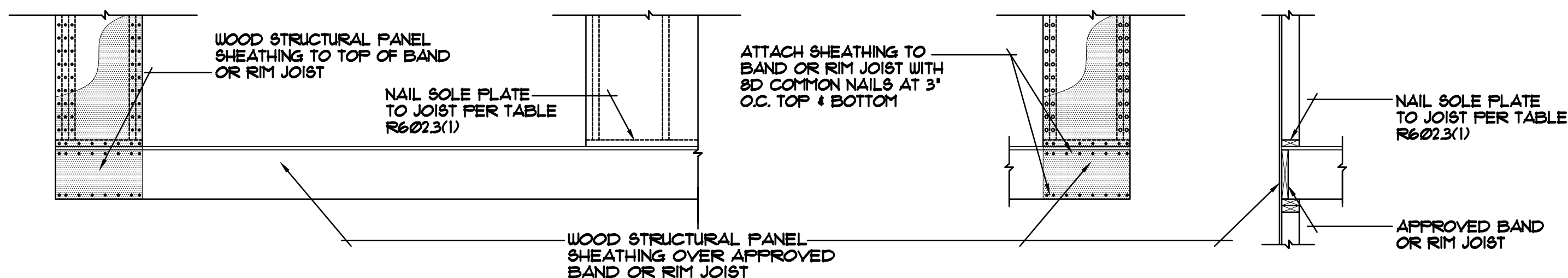
- IN 10'-1 1/8" PLATE HEIGHT AREAS, PROVIDE STANDARD ENERGY HEELS @ ALL 1/12 ROOF TRUSSES with 16" OVERHANGS
- ADJUST HEELS OF 8/12 ROOF TRUSSES with 16" OVERHANGS TO MATCH EAVES with 1/12 ROOFS
- IN 9'-1 1/8" PLATE HEIGHT AREAS, ADD 12" TO HEELS @ ALL 1/12 ROOFS with 16" OVERHANGS TO MATCH EAVES with 1/12 ROOFS @ 10'-1 1/8" PLATE HEIGHT AREAS



OVER CONCRETE OR MASONRY BLOCK FOUNDATION



OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION
(WHERE PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST)



OVER RAISED WOOD FLOOR - OVERLAP OPTION
(WHERE PORTAL SHEATHING LAPS OVER BAND OR RIM JOIST)

CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION 1/2"=1'-0"
FIGURE 602.10.6.4 METHOD CS-PF

TABLE R602.3(3) REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURE *a b c*

MINIMUM NAIL		MINIMUM WOOD STRUCTURAL PANEL SPAN RATING	MINIMUM NOMINAL PANEL THICKNESS (INCHES)	MAXIMUM WALL STUD SPACING (INCHES)	PANEL NAIL SPACING		MAXIMUM WIND SPEED (MPH)		
SIZE	PENETRATION (INCHES)				EDGES (INCHES O.C.)	FIELD (INCHES O.C.)	WIND EXPOSURE CATEGORY		
							B	C	D
6d COMMON (2.0"x0.13")	15	24/0	3/8	16	6	12	140	115	110
8d COMMON (2.5"x0.13")	1.75	24/16	7/16	16	6	12	170	140	135
				24	6	12	140	115	110

FOR 91: 1"= 25.4mm, 1 mile per hour= 0.447 m/s

- a. Panel strength axis parallel or perpendicular to supports, three-ply plywood sheathing with studs spaced more than 16 inches on center shall be applied with panel strength axis perpendicular to supports
- b. Table is based on wind pressures acting toward and away from building surfaces per Section R302.2. Lateral bracing requirements shall be in accordance with Section R602.10
- c. Wood structural panels with span ratings of Wall-16 or Wall-24 shall be permitted as an alternate to panels with a 24/0 span rating. Plywood siding rated 16'o.c. or 24'o.c. shall be permitted as an alternate to panels with a 24/16 span rating. Wall-16 and Plywood siding 16'o.c. shall be used with studs spaced a maximum of 16 inches on center.

WALL BRACING METHOD	DESCRIPTION
CS-WBP	(CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANEL) PER TABLE 602.3 (3)
CS-PF	(CONTINUOUSLY SHEATHED PORTAL FRAMING) SEE THE CS-PF DETAIL (SHEET #3)
GB	(GYPSUM BOARD) NAILS OR SCREWS PER TABLE R602.3(1) * EXTERIOR LOCATIONS & PER TABLE R102.3.5 * INTERIOR LOCATIONS

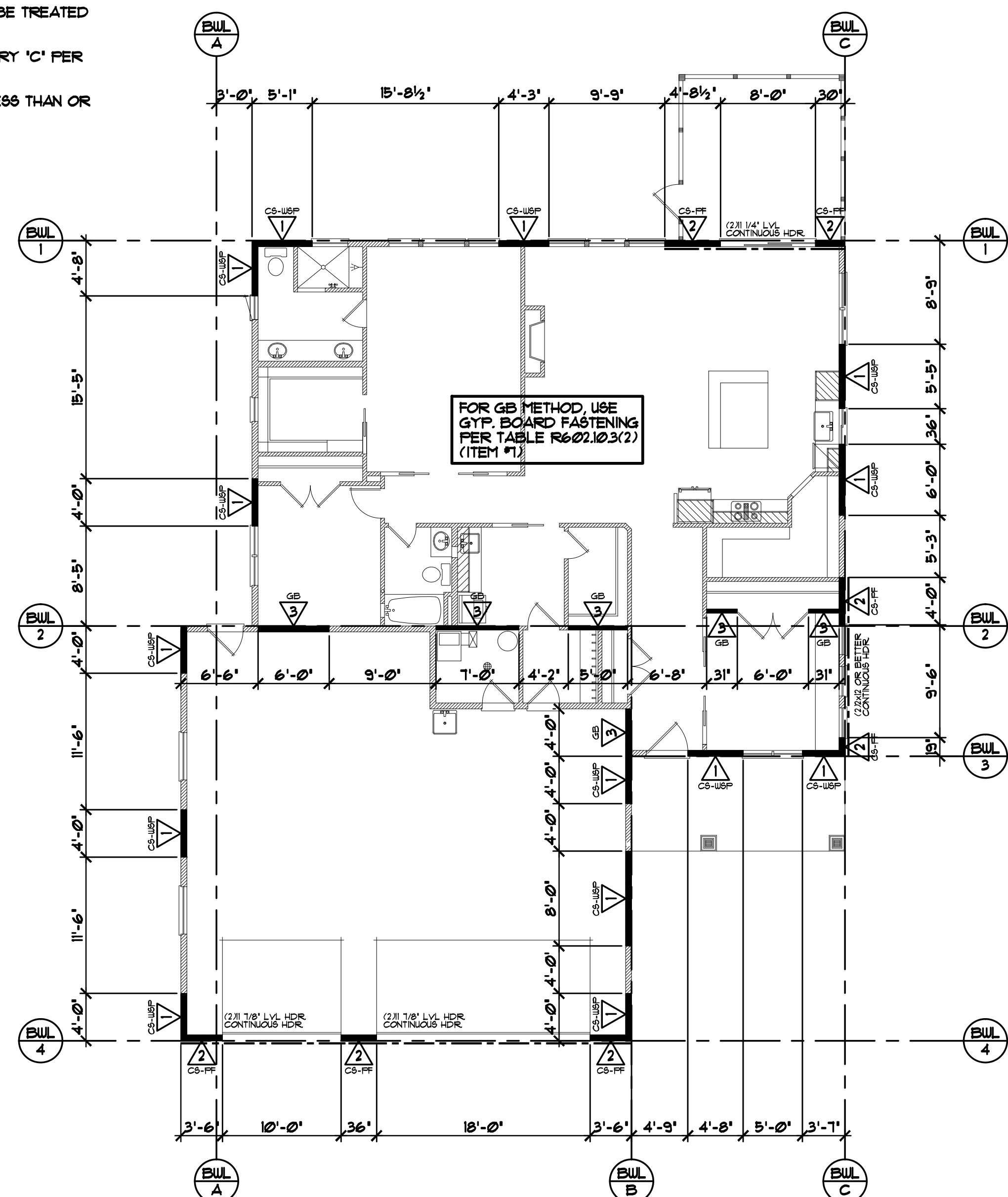
ALL BRACED PANEL LENGTHS GIVEN ARE TO BE TREATED AS MINIMUMS.

WIND EXPOSURE CATEGORY IS TO BE CATEGORY 'C' PER SECTION R302.1.4

WIND SPEED RESISTANCE TO BE MEASURED LESS THAN OR EQUAL TO 115 MPH.

NOTE!! APPROVED UPLIFT FRAMING CONNECTORS TO BE SPECIFIED BY TRUSS MANUFACTURER/ SUPPLIER TO PROVIDE A CONTINUOUS LOAD PATH TO A POINT WHERE UPLIFT FORCES ARE 100% IF OR LESS (PER R602.3.5 AND PER SECTION R302.11)

NOTE!!! BRACED WALL PANELS TO BE FRAMED FROM FLOOR TRUSSES ATTACHMENT POINTS TO ROOF TRUSS ATTACHMENT POINTS BEHIND ROOF TRUSSES PER R602.10.2 * ENTIRE UPPER LEVEL (TYP.)



MAIN LEVEL WALL BRACING PLAN 1/8"=1'-0"