

ROOF PLAN  
1/8" = 1'-0"  
6/12 ROOF PITCH

RAFTERS 2 X 6 DF NO 2 @ 16" OC TYP.  
HIPS AND RIDGES 2 X 8 DF NO 2 TYP.



NOTE HILLCREST RAISED

WRAP STONE 8" ON CORNERS TYP.

FRONT ELEVATION  
STUCCO & STONE SIDING

ELEVATION A

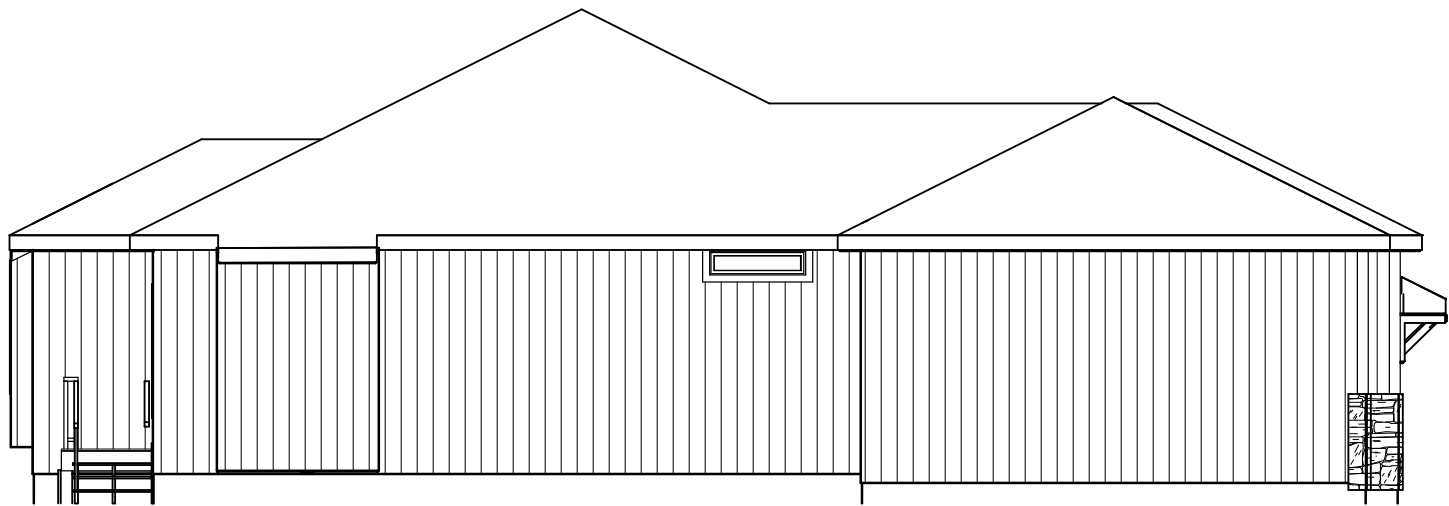
RETURNS LP SMART  
SIDING



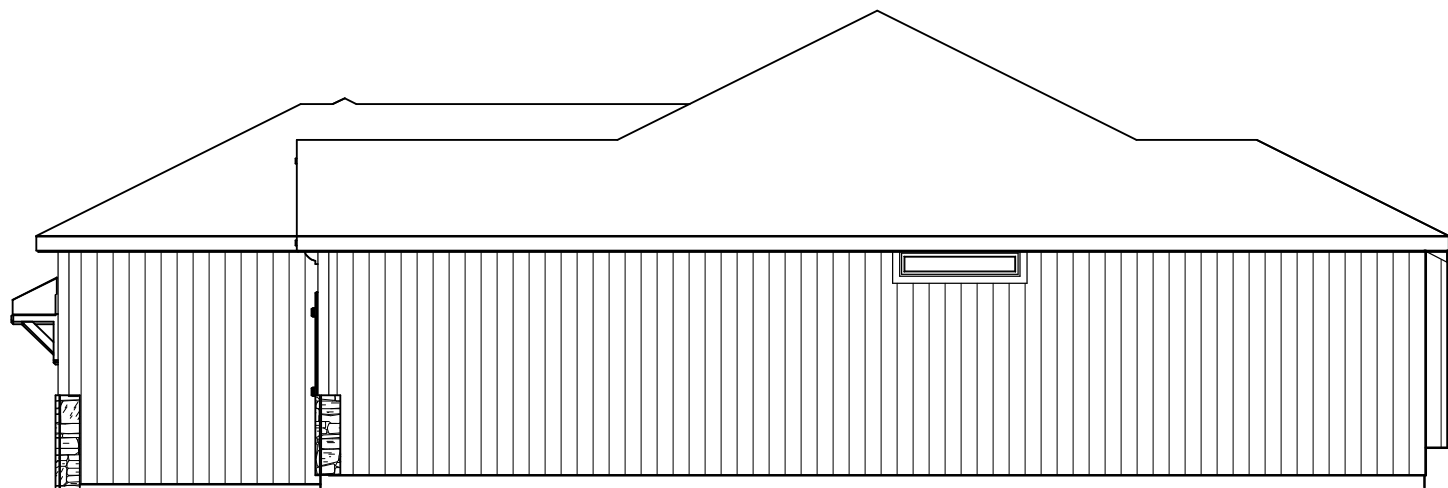
REAR EL.  
1/8" = 1'-0"



3 SIDES LP PANEL SIDING



LEFT EL.  
1/8" = 1'-0"



RIGHT EL.  
1/8" = 1'-0"

BUILD IN ACCORDANCE WITH  
2018 INTERNATIONAL  
RESIDENTIAL CODE AND  
LOCAL CODES.

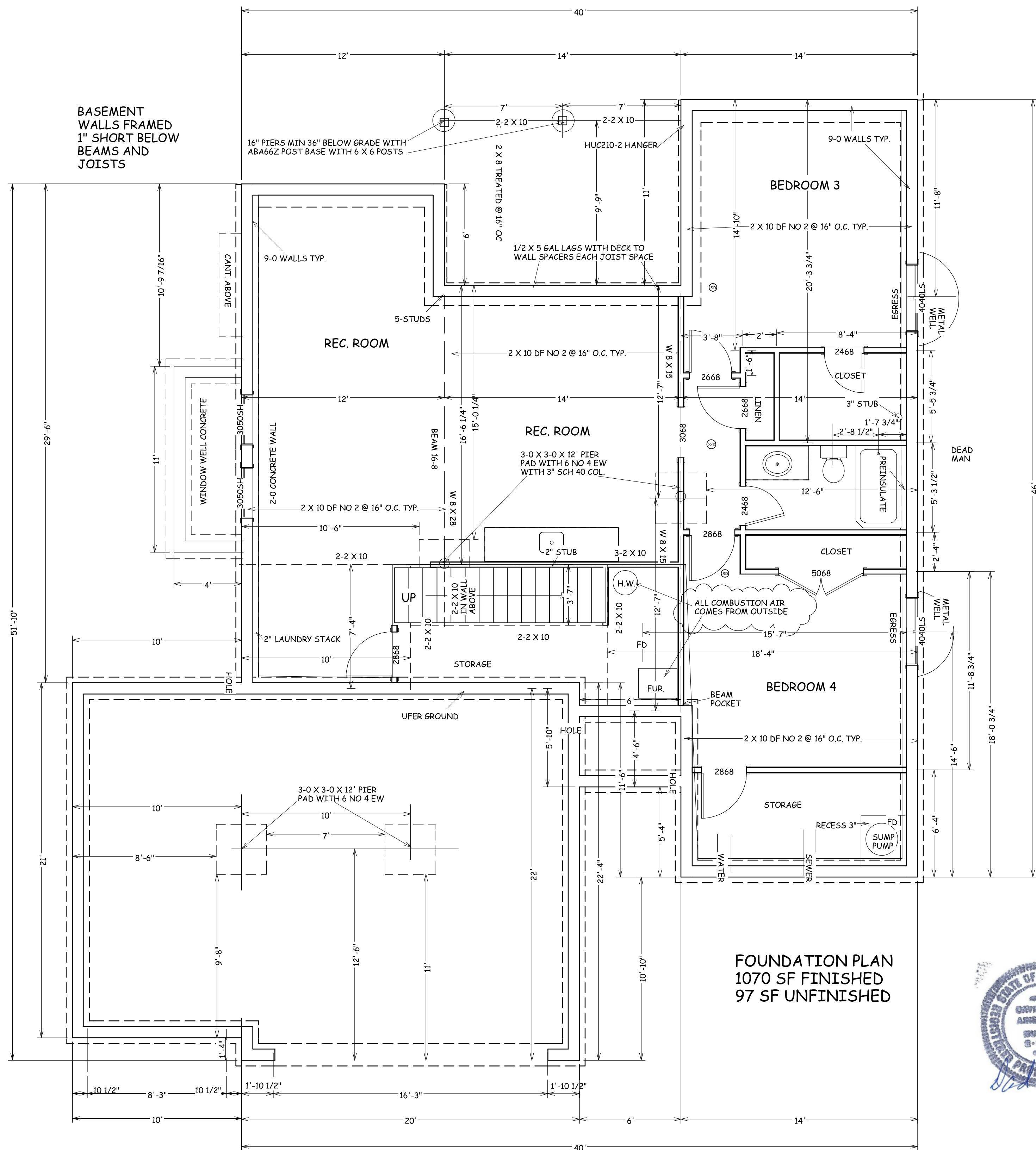
TRUMARK HOMES  
WOOD BRIDGE I  
LOT 143 HIGHLAND MEADOWS  
2781 SW 12 ST  
LEE SUMMIT MO

SCALE  
1/4" = 1'-0"

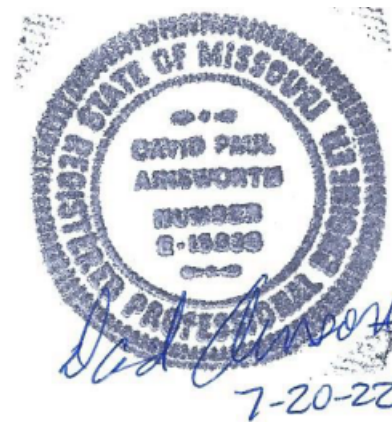
DATE  
7-19-22

PLAN NO.  
  
3871

SHEET NO.  
  
1 OF 5



FOUNDATION PLAN  
1070 SF FINISHED  
97 SF UNFINISHED



BUILD IN ACCORDANCE WITH  
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TRUMARK HOMES  
WOOD BRIDGE I  
LOT 143 HIGHLAND MEADOWS  
2781 SW 12 ST  
LEE SUMMIT MO

SCALE  
1/4" = 1-0

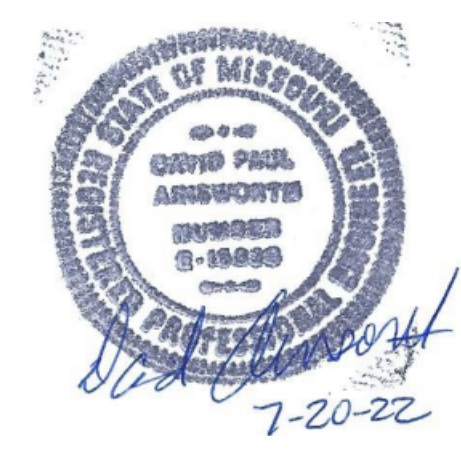
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7-19-22

PLAN NO.

3871

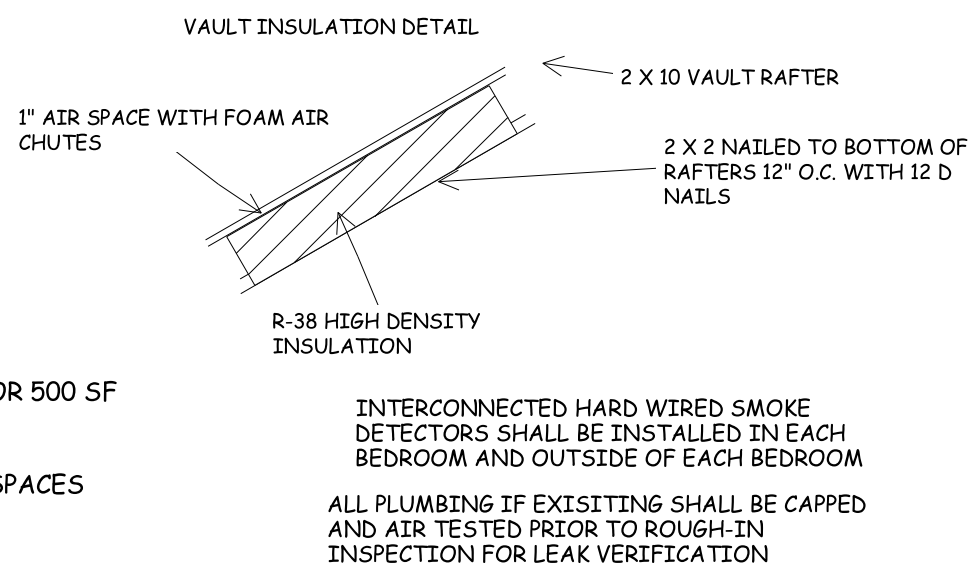
SHEET NO.

2 OF 5

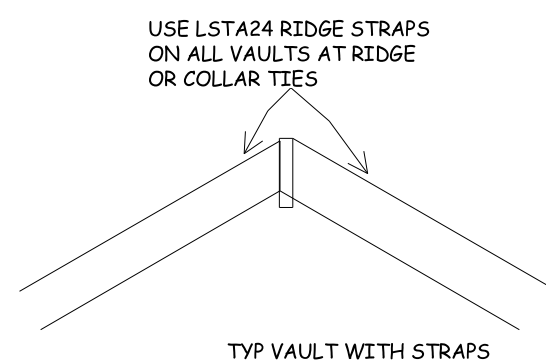




DUCTWORK NEEDS TO HAVE AN R-8 VALUE



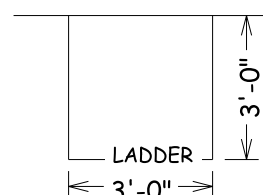
AMENDED RAYMORE 608



ALL CONCRETE EXPOSED TO  
WEATHER GARAGE SLABS  
FOOTINGS WALLS AND FLATWORK  
MUST HAVE 6% AIR ENTRAINMENT

TYP. U.N.O. 3-0 X 3-0 X 12" PEIR PADS MIN.  
WITH # 4 REBAR. 6 EACH WAY

STUDS OVER 10-0 SHALL HAVE  
BLOCKING ALONG WALL MAX  
OF 6-0 O.C.



EGRESS WINDOW WELL AS NEEDED  
PER SECTION 308 MIN 3'-0" X 3'-0"  
WITH LADDER

OVERHEAD GARAGE DOORS  
MUST MEET DASMA 115 MPH  
OR IRC 2018 REQUIREMENTS

TYPICAL WALL SECTION

## WINDOW EGRESS REQUIREMENTS

BEDROOM WINDOW EGRESS MINIMUM FOR A DOUBLE HUNG WINDOW IS 34 INCH CLEAR WIDTH MIN. AND 24 INCH CLEAR HEIGHT MIN. WITH A CLEAR OPENABLE AREA OF 5.7 SQUARE FEET MIN.

A CASEMENT OR SLIDER WINDOW MINIMUMS ARE 20 INCH CLEAR WIDTH MINIMUM AND 41 INCH CLEAR HEIGHT MINIMUM. WITH A MINIMUM 5.7 SQUARE FOOT OF OPENABLE AREA.

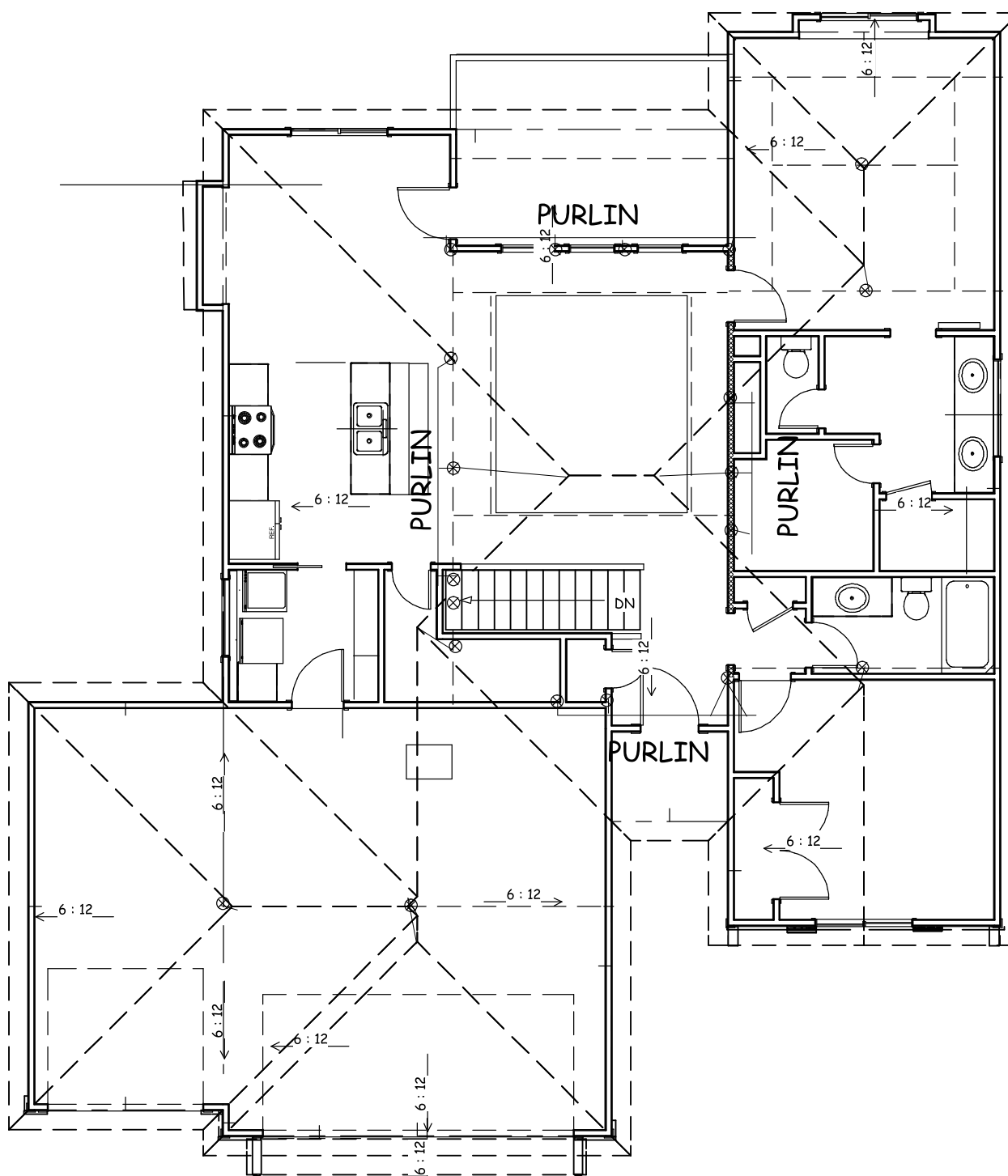
OPENING OF EGRESS WINDOW NOT MORE THAN 42" FROM THE FLOOR

WINDOW SAFETY GLAZING PER 308

SAFETY GLAZING REQUIRED ALONG WALKING SURFACES AND STAIRS LOCATED WITHIN 36 INCHES HORIZONTALLY OF THE STEPS. SAFETY GLAZING REQUIRED IF EXPOSED SINGLE PANEL IS IN EXCESS OF 9 SQUARE FEET OR THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FINISHED FLOOR.

SAFETY GLAZING REQUIRED WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN 24 INCHES OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE, SAFETY OR TEMPERED GLAZING IS REQUIRED.

WINDOWS ARE TO HAVE FALL  
PROTECTION PER IRC 312.2



PURLIN PLAN  
1/8" = 1'-0"

**BUILD IN ACCORDANCE WITH  
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LOCAL CODES.**

TRUMARK HOMES  
WOOD BRIDGE I  
LOT 143 HIGHLAND MEADOWS  
2781 SW 12 ST  
LEE SUMMIT MO

4 OF 5





| TABLE R602.10.3(1)<br>BRACING REQUIREMENTS BASED ON WIND SPEED                                      |                |  |                         |           |   |                                   |
|---|----------------|--|-------------------------|-----------|---|-----------------------------------|
| EXPOSURE CATEGORY B<br>• 30-FOOT MEAN ROOF HEIGHT<br>• 10-FOOT WALL HEIGHT<br>• 2 BRACED WALL LINES |                | MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS<br>REQUIRED ALONG EACH BRACED WALL LINE <sup>a</sup> |                         |           |   |                                   |
| Ultimate<br>Design Wind<br>Speed<br>(mph)   | Story Location | Braced Wall Line<br>Spacing <sup>b</sup><br>(feet)   | Method LIB <sup>c</sup> | Method GB | Methods<br>DWB, WSP, SFB,<br>PFB, FCP, HPS,<br>BV-WSP, ABW, PPF,<br>PFG, CS-SFB | Methods<br>CS-WSP, CS-G,<br>CS-PF |
| ≤ 115   |                | 20   | 3.5                     | 3.5       | 2.0   | 2.0                               |
|   |                | 30   | 6.5                     | 6.5       | 3.5   | 3.5                               |
|   |                | 40   | 9.5                     | 9.5       | 5.5   | 4.5                               |
|   |                | 50   | 12.5                    | 12.5      | 7.0   | 6.0                               |
|   |                | 60   | 15.0                    | 15.0      | 9.0   | 7.5                               |
|   |                | 60   | 18.0                    | 18.0      | 10.5  | 9.0                               |
|   |                | 10   | 7.0                     | 7.0       | 4.0   | 3.5                               |
|   |                | 20   | 12.5                    | 12.5      | 7.5   | 6.5                               |
|   |                | 30   | 18.0                    | 18.0      | 10.5  | 9.0                               |
|   |                | 40   | 23.5                    | 23.5      | 13.5  | 11.5                              |
|   |                | 50   | 29.0                    | 29.0      | 16.5  | 14.0                              |
|   |                | 60   | 34.5                    | 34.5      | 20.0  | 17.0                              |
|   |                | 10   | NP                      | 10.0      | 6.0   | 5.0                               |
|   |                | 20   | NP                      | 17.5      | 11.0  | 9.0                               |
|   |                | 30   | NP                      | 27.0      | 15.5  | 13.0                              |
|   |                | 40   | NP                      | 35.0      | 20.0  | 17.0                              |
|   |                | 50   | NP                      | 43.0      | 24.5  | 21.0                              |
|   |                | 60   | NP                      | 51.0      | 29.0  | 25.0                              |

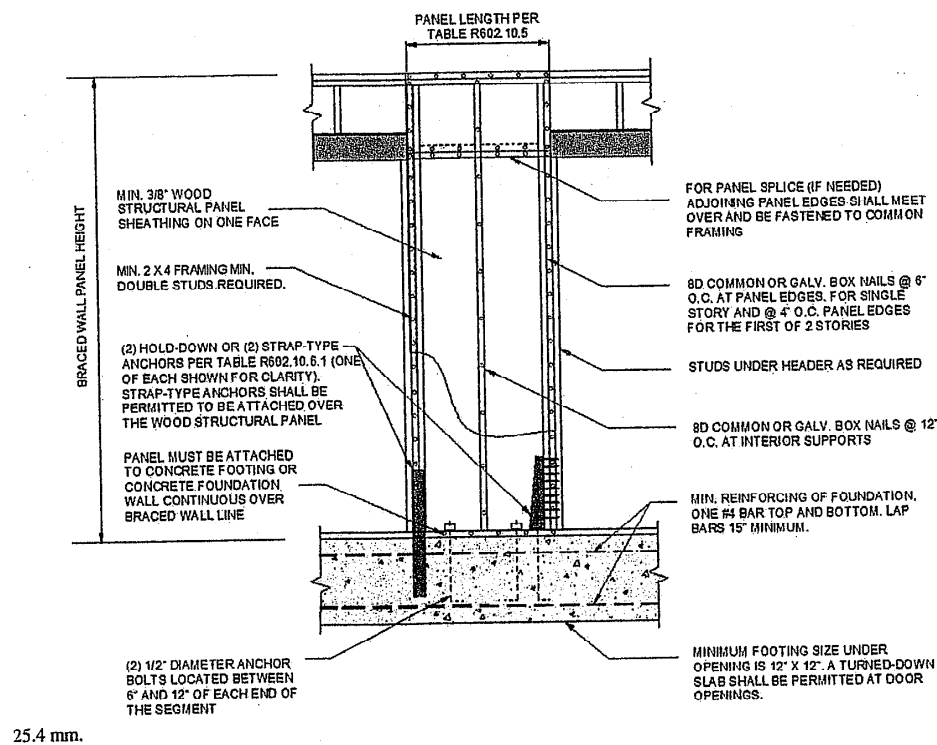


FIGURE R602.10.6.1  
METHOD ABW—ALTERNATE BRACED WALL PANEL

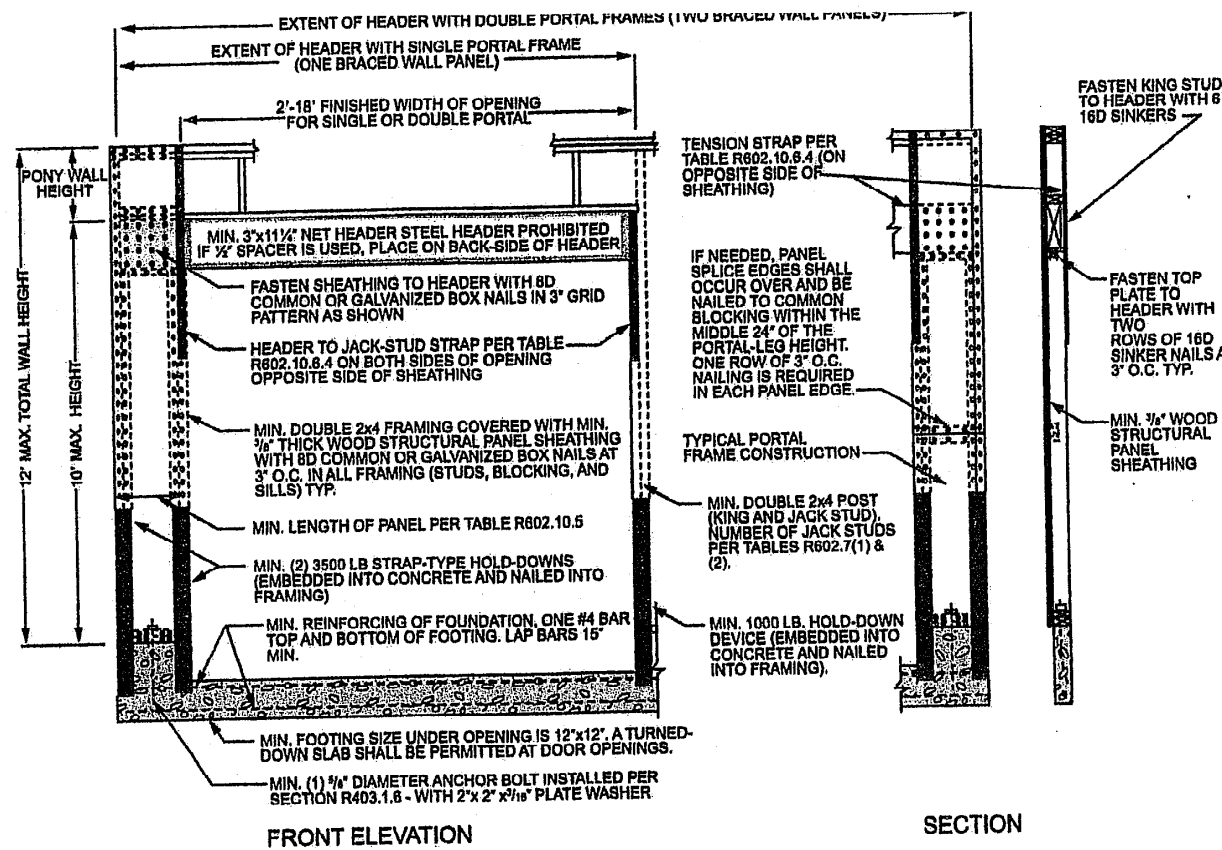


FIGURE R602.10.6.2  
METHOD PFF—PORTAL FRAME WITH HOLD-DOWNS

| TABLE R602.10.4<br>BRACING METHODS   |   |                        |   |  |
|--|---|------------------------|---|--|
| METHODS, MATERIAL  | MINIMUM THICKNESS   | FIGURE                 | CONNECTION CRITERIA <sup>a</sup>  |  |
|  |   |                        | Fasteners   | Spacing  |
| LIB<br>Let-in-bracing  | 1 x 4 wood or<br>approved metal straps at<br>45° to 60° angles for<br>maximum 16" stud<br>spacing |                        | Wood: 2-8d common nails<br>or<br>3-8d (2 1/2" long x 0.113" dia.) nails<br>Metal strap: per manufacturer                                  | Wood: per stud and<br>top and bottom plates<br>Metal:<br>per manufacturer                            |
| DWB<br>Diagonal<br>wood boards   | 3/4" (1" nominal) for<br>maximum 24" stud<br>spacing  |                        | 2-8d (2 1/2" long x 0.113" dia.) nails<br>or<br>2 - 1 1/2" long staples   | Per stud   |
| WSP<br>Wood<br>structural panel<br>(See Section R604)  | 3/4"  |                        | Exterior sheathing per<br>Table R602.3(3)<br>Interior sheathing per<br>Table R602.3(1) or R602.3(2)                                       | 6" edges 12" field<br>Varies by fastener   |
| BV-WSP <sup>b</sup><br>Wood structural<br>panels with stone<br>or masonry veneer<br>(See Section<br>R602.10.6.5) | 3/4"  | See Figure R602.10.6.5 | 8d common (2 1/2" x 0.131") nails   | 4" at panel edges<br>12" at intermediate<br>supports 4" at braced<br>wall panel end posts            |
| SFB<br>Structural<br>fiberboard<br>sheathing   | 1/2" or 3/8" for<br>maximum 16" stud<br>spacing   |                        | 1 1/2" long x 0.12" dia. (for 1/2" thick<br>sheathing) 1 1/2" long x 0.12" dia.<br>(for 3/8" thick sheathing)<br>galvanized roofing nails | 3" edges 6" field  |
| GB<br>Gypsum board   | 1/2"  |                        | Nails or screws per Table R602.3(1) for<br>exterior locations<br>Nails or screws per Table R702.3.5 for<br>interior locations             | For all braced wall<br>panel locations: 7"<br>edges (including top<br>and bottom plates) 7"<br>field |
| PFB<br>Particleboard<br>sheathing<br>(See Section R605)  | 3/4" or 1/2" for<br>maximum 16" stud<br>spacing   |                        | For 3/4", 6d common<br>(2" long x 0.113" dia.) nails<br>For 1/2", 8d common<br>(2 1/2" long x 0.131" dia.) nails                          | 3" edges 6" field  |
| FCP<br>Portland<br>cement plaster  | See Section R703.7 for<br>maximum 16" stud<br>spacing   |                        | 1 1/2" long, 11 gage, 1/8" dia. head nails<br>or<br>16 gage staples   | 6" o.c. on all framing<br>members  |
| HPS<br>Hardboard<br>panel siding   | 3/8" for maximum 16" stud<br>spacing  |                        | 0.092" dia., 0.225" dia. head nails with<br>length to accommodate 1 1/2" penetration into studs   | 4" edges 8" field  |
| ABW<br>Alternate<br>braced wall  | 3/8"  |                        | See Section R602.10.6.1   | See<br>Section R602.10.6.1   |

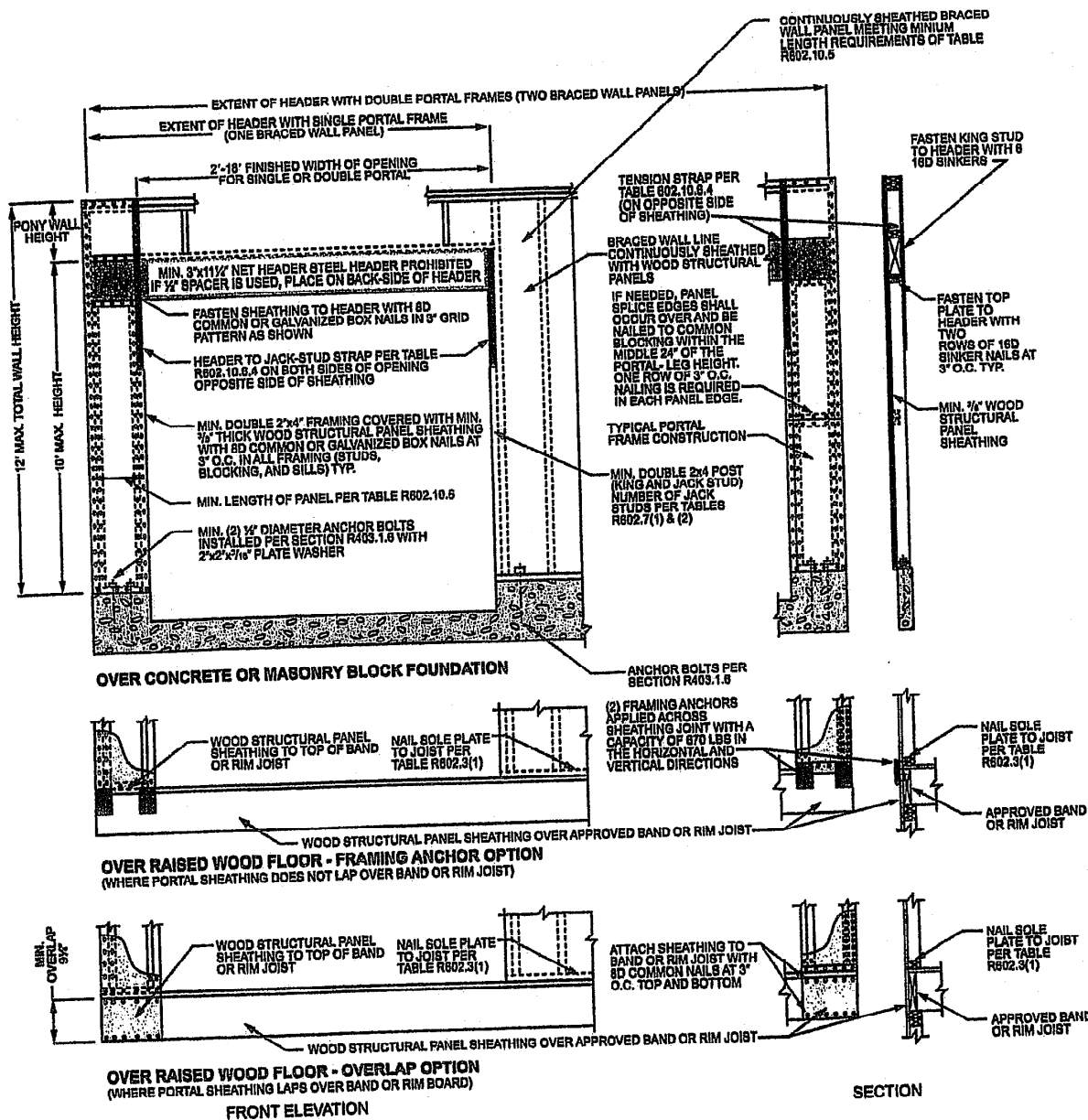
| TABLE R602.10.5<br>MINIMUM LENGTH OF BRACED WALL PANELS |   |        |         |         |         |  |
|---|---|--------|---------|---------|---------|--|
| METHOD<br>(See Table R602.10.4)                         | MINIMUM LENGTH <sup>a</sup><br>(inches)   |        |         |         |         | CONTRIBUTING LENGTH<br>(inches)                      |
|   | 8 feet  | 9 feet | 10 feet | 11 feet | 12 feet |  |
| DWB, WSP, SFB, PFB, FCP, HPS, BV-WSP                    | 48  | 48     | 48      | 53      | 58      | Actual <sup>b</sup>                                  |
| GB  | 48  | 48     | 48      | 53      | 58      | Double sided = Actual<br>Single sided = 0.5 x Actual |
| LIB   | 55  | 62     | 69      | NP      | NP      | Actual <sup>b</sup>                                  |
| ABW   | SDC A, B and C, ultimate<br>design<br>wind speed < 140 mph  | 28     | 32      | 34      | 38      | 42   |
|   | SDC D <sub>1</sub> , D <sub>2</sub> and D <sub>3</sub> , ultimate<br>design<br>wind speed < 140 mph | 32     | 32      | 34      | NP      | NP   |
| CS-G  | Adjacent clear opening height<br>(inches)   | 24     | 27      | 30      | 33      | 36   |
| CS-WSP, CS-SFB  | ≤ 64  | 24     | 27      | 30      | 33      | 36   |
|   | 68  | 26     | 27      | 30      | 33      | 36   |
|   | 72  | 27     | 27      | 30      | 33      | 36   |
|   | 76  | 30     | 29      | 30      | 33      | 36   |
|   | 80  | 32     | 30      | 30      | 33      | 36   |
|   | 84  | 35     | 32      | 32      | 33      | 36   |
|   | 88  | 38     | 35      | 33      | 33      | 36   |
|   | 92  | 43     | 37      | 35      | 35      | 36   |
|   | 96  | 48     | 41      | 38      | 36      | 36   |
|   | 100   | —      | 44      | 40      | 38      | 38   |
|   | 104   | —      | 49      | 43      | 40      | 39   |
|   | 108   | —      | 54      | 46      | 43      | 41   |
|   | 112   | —      | —       | 50      | 45      | 43   |
|   | 116   | —      | —       | 55      | 48      | 45   |
|   | 120   | —      | —       | 60      | 52      | 48   |
|   | 124   | —      | —       | —       | 56      | 51   |
|   | 128   | —      | —       | —       | 61      | 54   |
|   | 132   | —      | —       | —       | 66      | 58   |
|   | 136   | —      | —       | —       | —       | 62   |
|   | 140   | —      | —       | —       | —       | 66   |
|   | 144   | —      | —       | —       | —       | 72   |
| METHOD<br>(See Table R602.10.4)                         | Portal header height  |        |         |         |         |  |
|   | 8 feet  | 9 feet | 10 feet | 11 feet | 12 feet |  |
| PPH   | Supporting roof only  | 16     | 16      | 16      | Note c  | Note c   |
|   | Supporting one story and roof   | 24     | 24      | 24      | Note c  | Note c   |
| PFG   |   | 24     | 27      | 30      | Note d  | Note d   |
| CS-PF   | SDC A, B and C  | 16     | 18      | 20      | Note e  | Note e   |
|   | SDC D <sub>1</sub> , D <sub>2</sub> and D <sub>3</sub>  | 16     | 18      | 20      | Note e  | Note e   |

For S<sub>f</sub>: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.  
NP = Not Permitted.  
a. Linear interpolation shall be permitted.  
b. Use the actual length where it is greater than or equal to the minimum length.  
c. Maximum header height for PPH is 10 feet in accordance with Figure R602.10.6.2, but wall height shall be permitted to be increased to 12 feet with pony wall.  
d. Maximum header height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height shall be permitted to be increased to 12 feet with pony wall.  
e. Maximum header height for CS-PF is 10 feet in accordance with Figure R602.10.6.4, but wall height shall be permitted to be increased to 12 feet with pony wall.

BRACE WALL DETAILS  
WIND SPEED 115 MPH  
WIND EXPOSURE A  
SEISMIC DESIGN CATEGORY A

| TABLE R602.10.4—continued<br>BRACING METHODS  |   |        |  |  |
|---|---|--------|--|--|
| METHODS, MATERIAL   | MINIMUM THICKNESS                               | FIGURE | CONNECTION CRITERIA <sup>a</sup>   |  |
|   |   |        | Fasteners  | Spacing                                  |
| PPH<br>Portal frame with<br>hold-downs  | 3/4"  |        | See Section R602.10.6.2  | See Section R602.10.6.2                  |
| PFG<br>Portal frame at garage   | 7/8"  |        | See Section R602.10.6.3  | See Section R602.10.6.3                  |
| CS-WSP<br>Continuously sheathed<br>wood structural panel  | 3/4"  |        | Exterior sheathing per<br>Table R602.3(3)<br>Interior sheathing per<br>Table R602.3(1) or R602.3(2)  | 6" edges 12" field<br>Varies by fastener |
| CS-G <sup>b</sup><br>Continuously sheathed<br>wood structural panel<br>adjacent to garage<br>openings | 3/4"  |        | See Method CS-WSP  | See Method CS-WSP                        |
| CS-PF<br>Continuously sheathed<br>portal frame  | 3/4"  |        | See Section R602.10.6.4  | See Section R602.10.6.4                  |
| CS-SFB <sup>c</sup><br>Continuously sheathed<br>structural fiberboard                                 | 1/2" or 3/8" for<br>maximum 16" stud<br>spacing |        | 1 1/2" long x 0.12" dia.<br>(for 1/2" thick sheathing)<br>1 1/2" long x 0.12" dia.<br>(for 3/8" thick sheathing)<br>galvanized roofing nails | 3" edges 6" field                        |

For S<sub>f</sub>: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 degree = 0.0175 rad, 1 pound per square foot = 47.8 N/m<sup>2</sup>, 1 mile per hour = 0.447 m/s.  
a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D<sub>1</sub>, D<sub>2</sub>, and D<sub>3</sub>.  
b. Applies to panels next to garage door opening where supporting gable end wall or roof load only. Shall only be used on one wall of the garage. In Seismic Design Categories D<sub>1</sub>, D<sub>2</sub>, and D<sub>3</sub>, roof covering dead load shall not exceed 3 psf.  
c. Garage openings adjacent to a Method CS-G panel shall be provided with a header in accordance with Table R602.7(1). A full-height clear opening shall not be permitted adjacent to a Method CS-G panel.  
d. Method CS-SFB does not apply in Seismic Design Categories D<sub>1</sub>, D<sub>2</sub>, and D<sub>3</sub>.  
e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D<sub>1</sub> through D<sub>3</sub> only.



For S<sub>f</sub>: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.4  
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION



BUILD IN ACCORDANCE WITH  
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SCALE

1/4" = 1-0

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5 OF 5