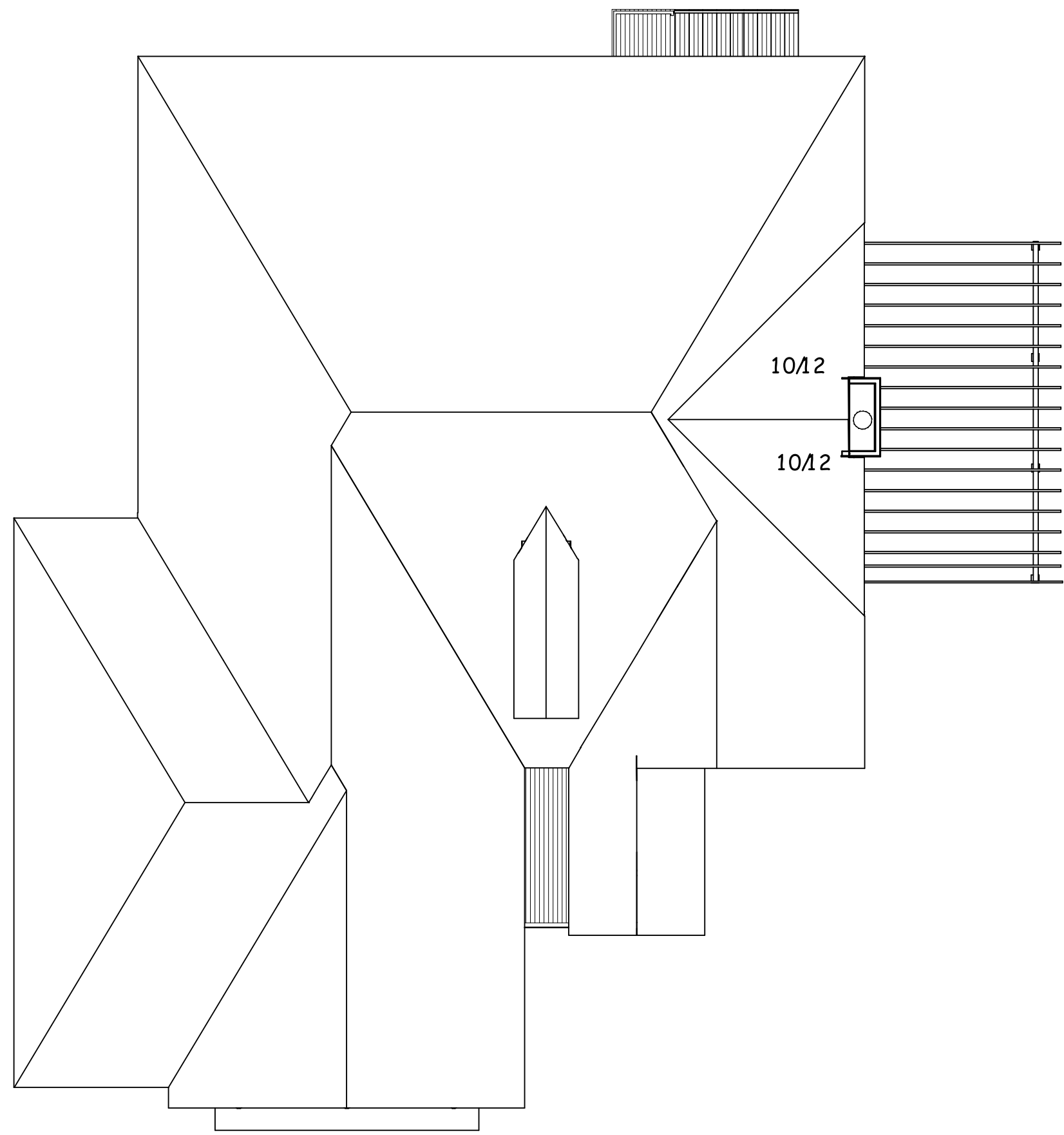
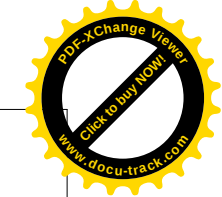
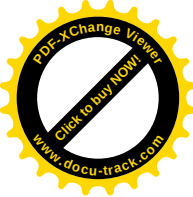
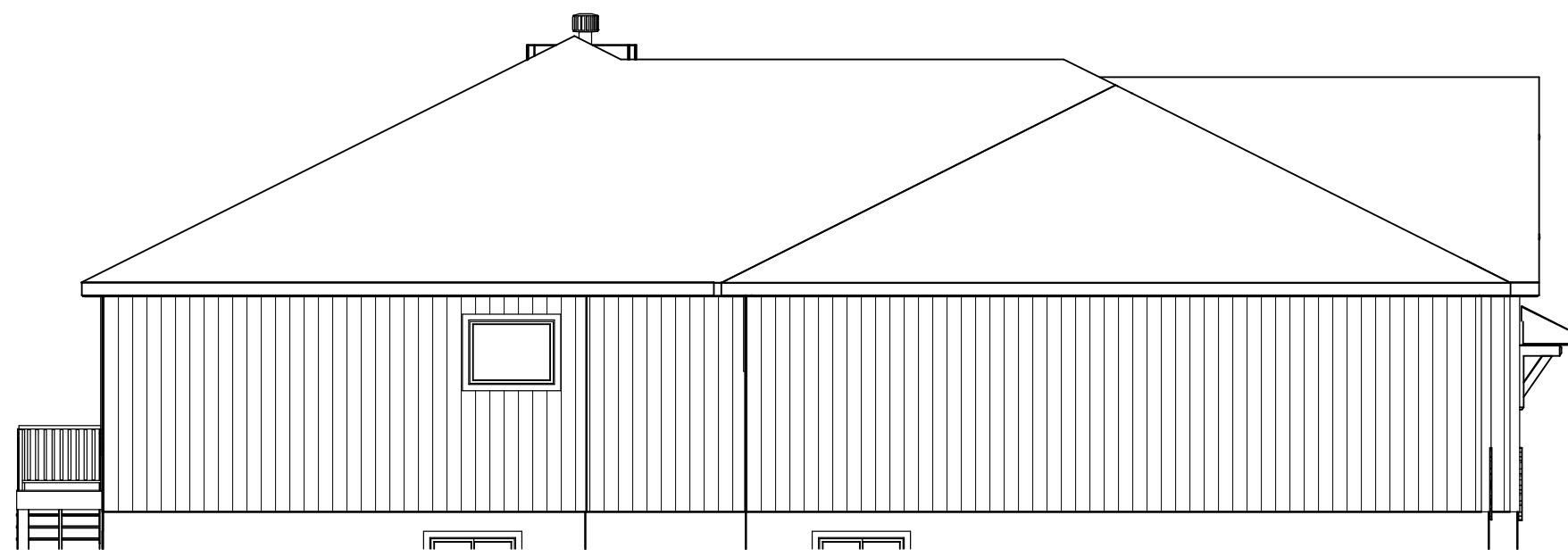




ROOF PLAN  
1/8" = 1'-0"  
ROOF PITCHES FRONT TO BACK 6/12 TYP. U.N.O.  
ROOF PITCHES SIDE TO SIDE 10/12 TYP. U.N.O  
RAFTERS 2 X 6 DF NO 2 @ 16" OC TYP.  
HIPS AND RIDGES 2 X 8 DF NO 2 TYP.



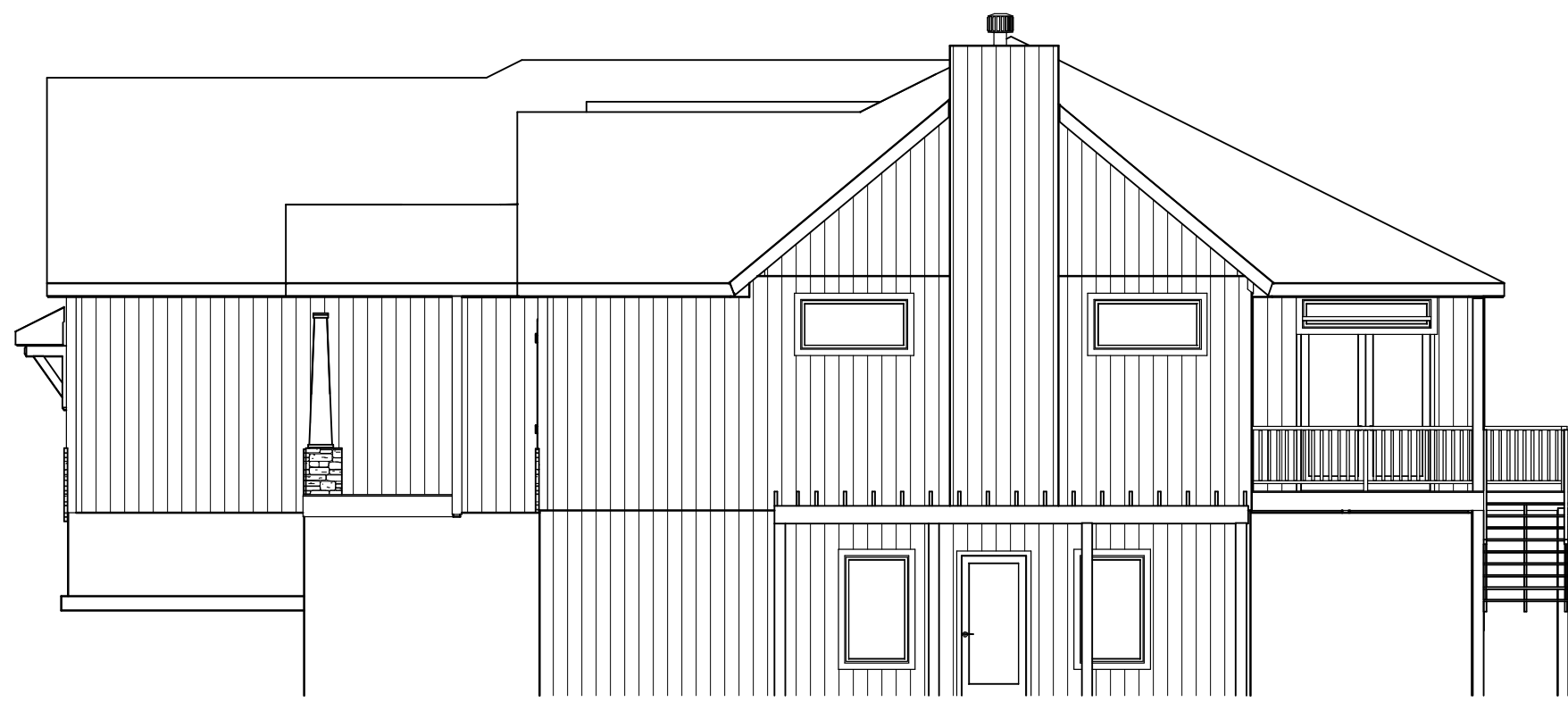
FRONT ELEVATION " A "  
STUCCO AND STONE



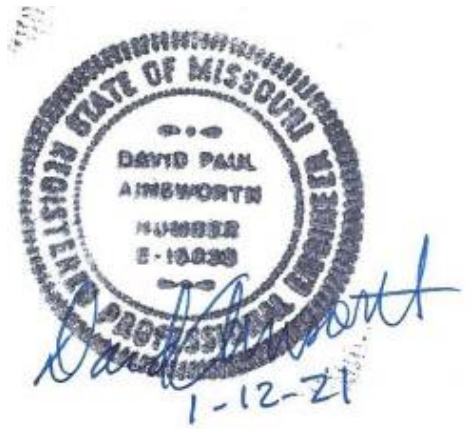
LEFT ELEVATION  
1/8" = 1'-0"

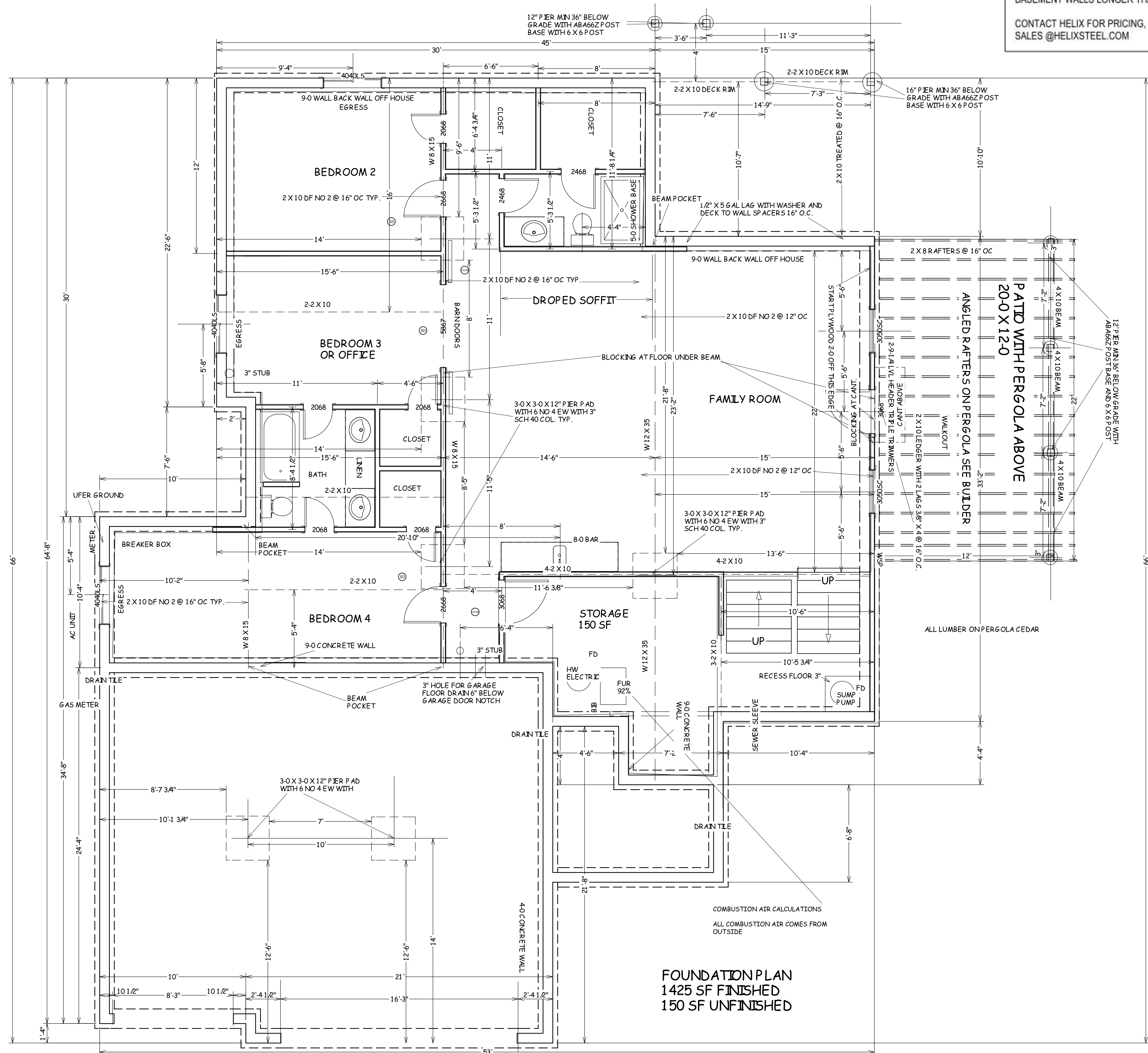
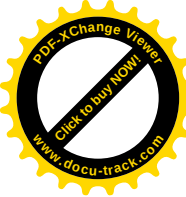


REAR ELEVATION  
1/8" = 1'-0"



RIGHT ELEVATION  
1/8" = 1'-0"





ALTERNATIVE FOUNDATION WALL REINFORCEMENT NOTES:

AS AN ALTERNATIVE TO THE BASEMENT FOUNDATION WALL HORIZONTAL AND VERTICAL REINFORCEMENT, PROVIDE 9 lb/yd<sup>3</sup> OF HELIX 5-25 DESIGNED IN ACCORDANCE WITH UNIFORM ES ER-0279.

THE HELIX ALTERNATE ALSO REQUIRES COUNTERFORTS TO BE INSTALLED AT BASEMENT WALLS LONGER THAN 16' AT 16' O.C. PER DETAIL 2, SHEET S103.

CONTACT HELIX FOR PRICING, DELIVERY, AND INSTALLATION AT 734-322-2144 x1 OR SALES @HELIXSTEEL.COM



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

TRUMARK HOMES  
KYLE V  
ELEVATION A  
LOT 108 WOODSIDE RESERVE  
105 NW AMBERSHAM DR  
LEE SUMMIT MO

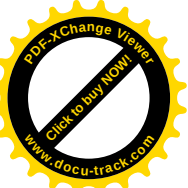
SCALE  
1/4" = 1-0

DATE  
1-11-20

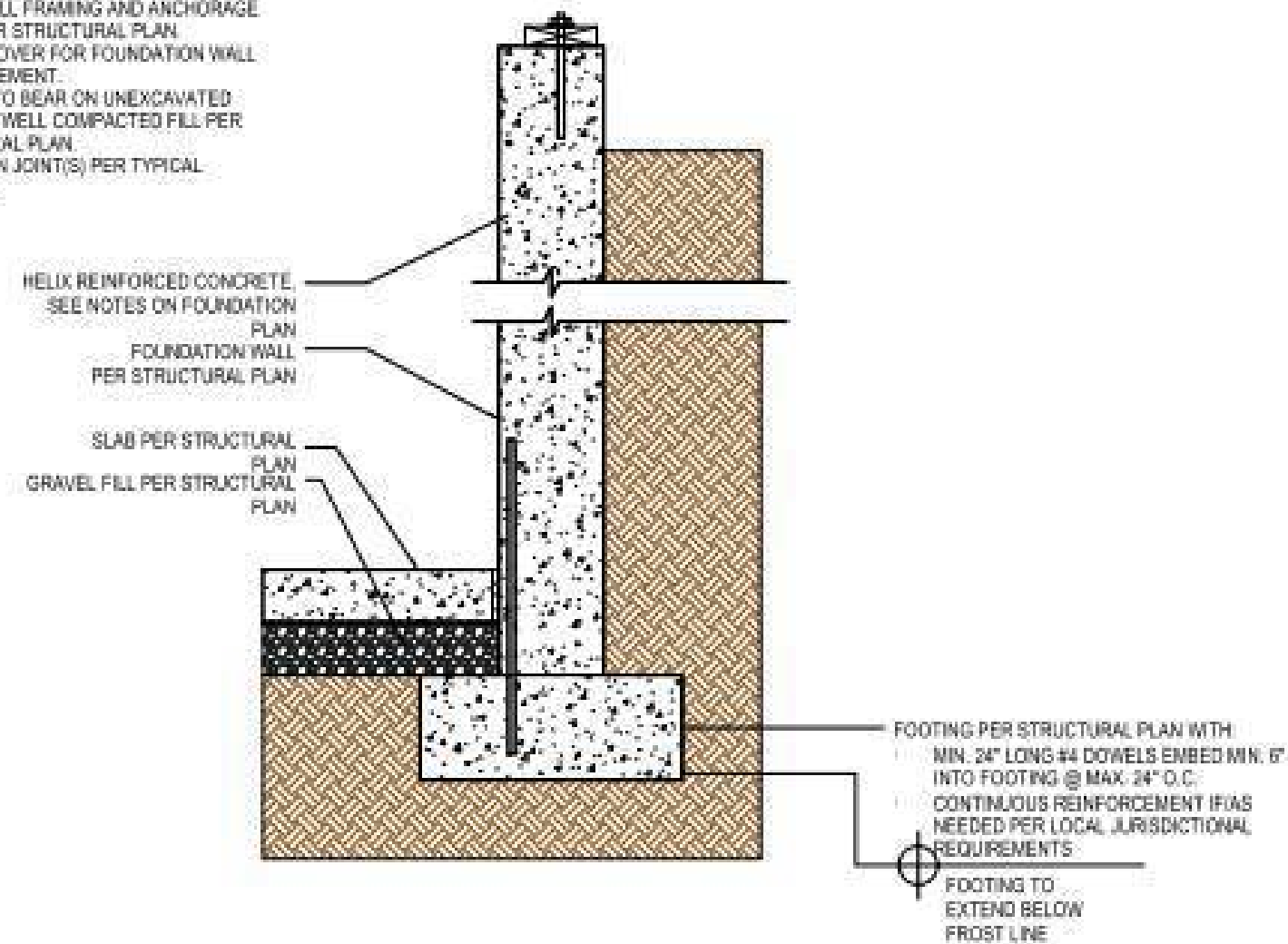
PLAN NO.  
3350

SHEET NO.

2 OF 6

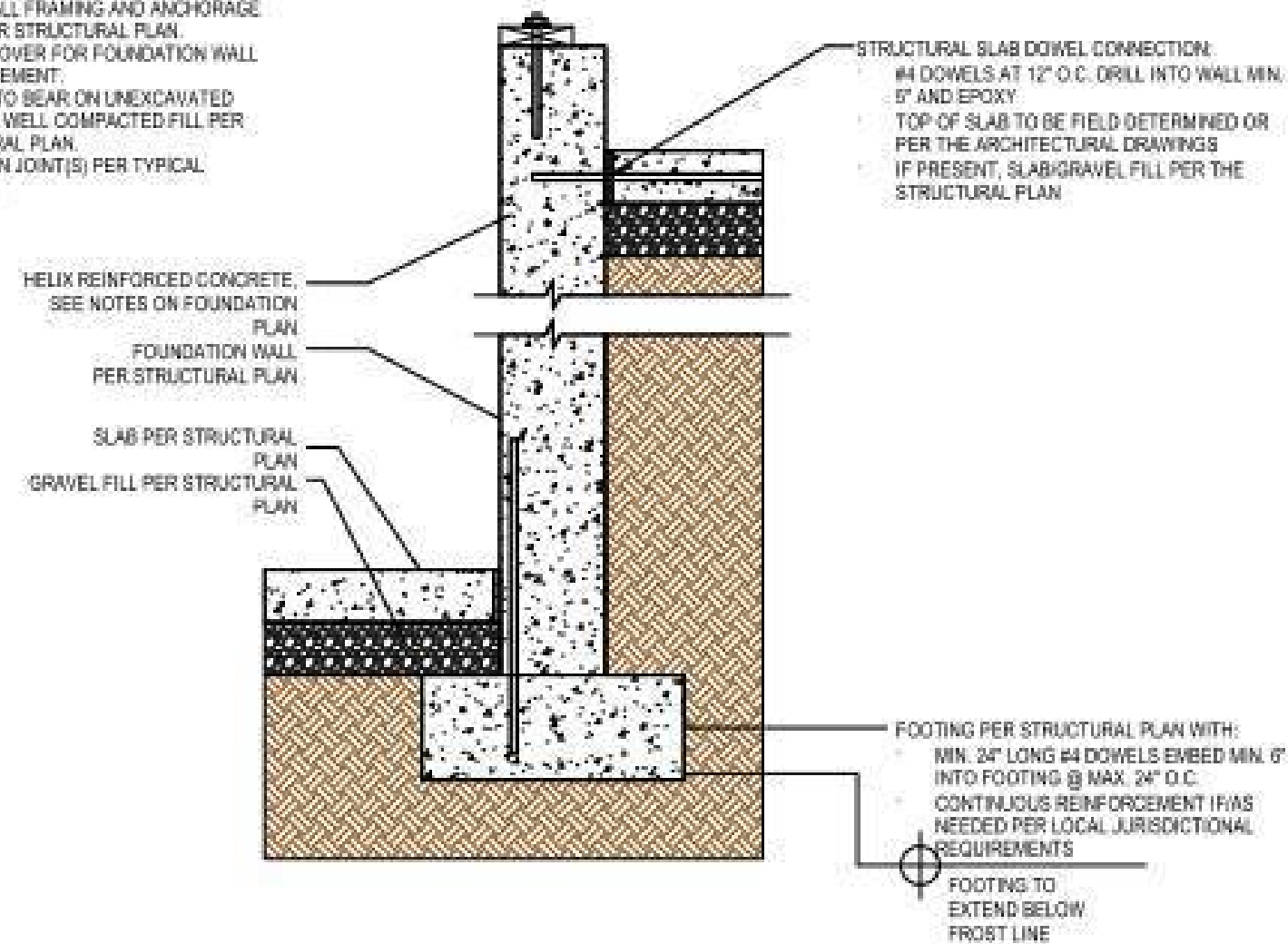


- DETAIL NOTES:
1. FLOORWALL FRAMING AND ANCHORAGE ABOVE PER STRUCTURAL PLAN.
  2. MIN. 3/4" COVER FOR FOUNDATION WALL REINFORCEMENT.
  3. FOOTING TO BEAR ON UNEXCAVATED EARTH OR WELL COMPACTED FILL PER STRUCTURAL PLAN.
  4. EXPANSION JOINT(S) PER TYPICAL PRACTICE.



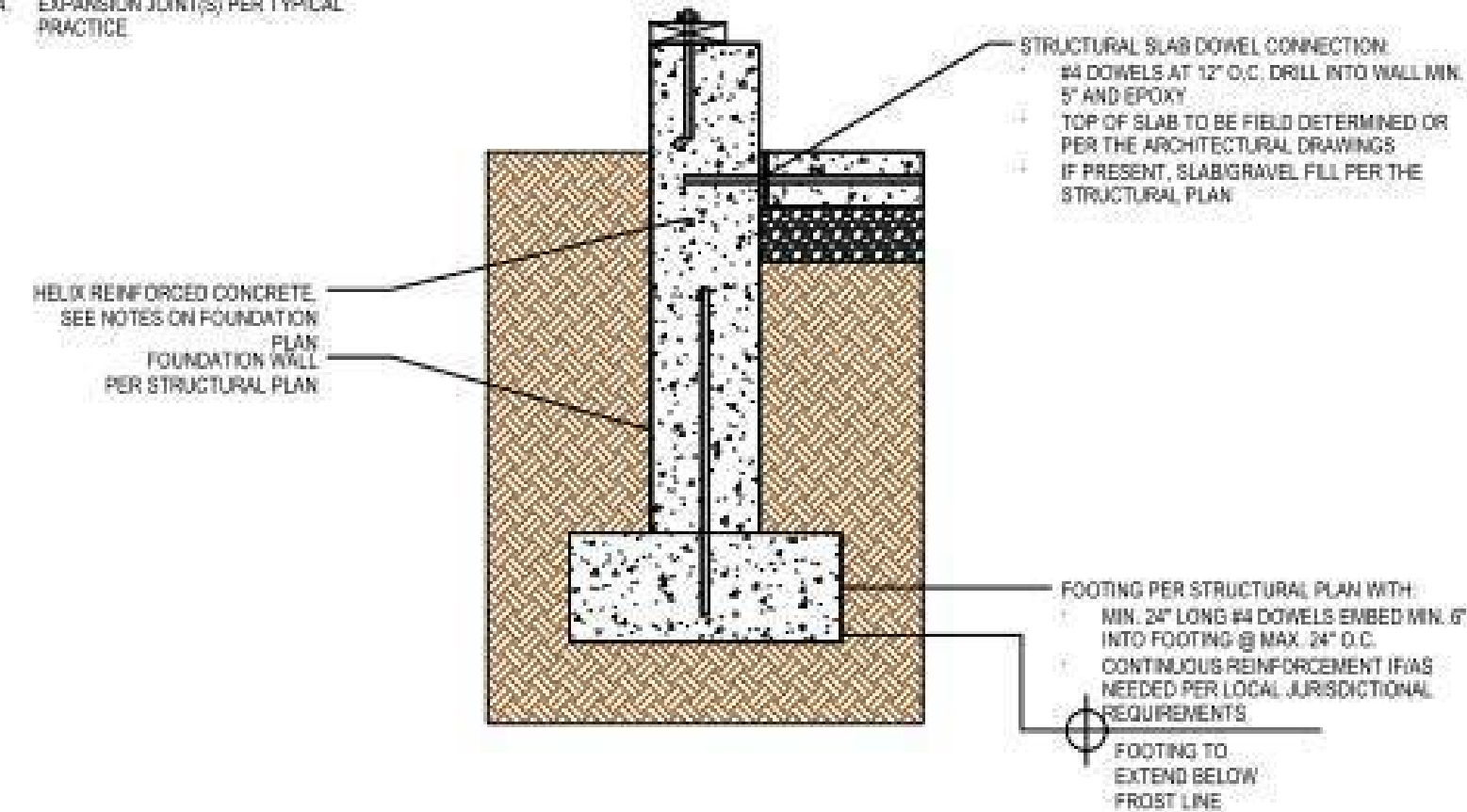
**1 TYPICAL FOUNDATION WALL**

- DETAIL NOTES:
1. FLOORWALL FRAMING AND ANCHORAGE ABOVE PER STRUCTURAL PLAN.
  2. MIN. 3/4" COVER FOR FOUNDATION WALL REINFORCEMENT.
  3. FOOTING TO BEAR ON UNEXCAVATED EARTH OR WELL COMPACTED FILL PER STRUCTURAL PLAN.
  4. EXPANSION JOINT(S) PER TYPICAL PRACTICE.



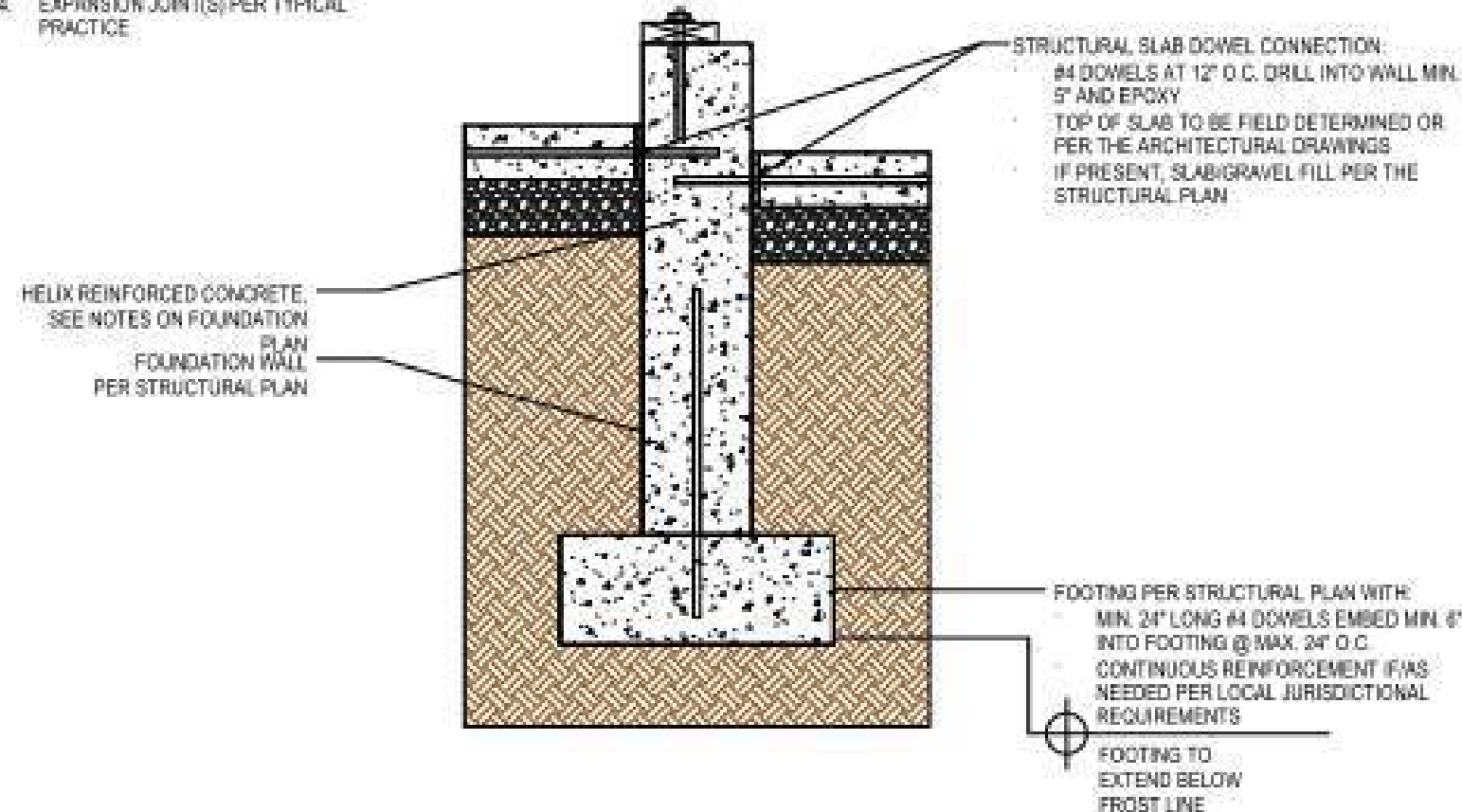
**2 TYPICAL FOUNDATION WALL w/ STRUCTURAL SLAB ADJACENT**

- DETAIL NOTES:
1. FLOORWALL FRAMING AND ANCHORAGE ABOVE PER STRUCTURAL PLAN.
  2. MIN. 3/4" COVER FOR FOUNDATION WALL REINFORCEMENT.
  3. FOOTING TO BEAR ON UNEXCAVATED EARTH OR WELL COMPACTED FILL PER STRUCTURAL PLAN.
  4. EXPANSION JOINT(S) PER TYPICAL PRACTICE.



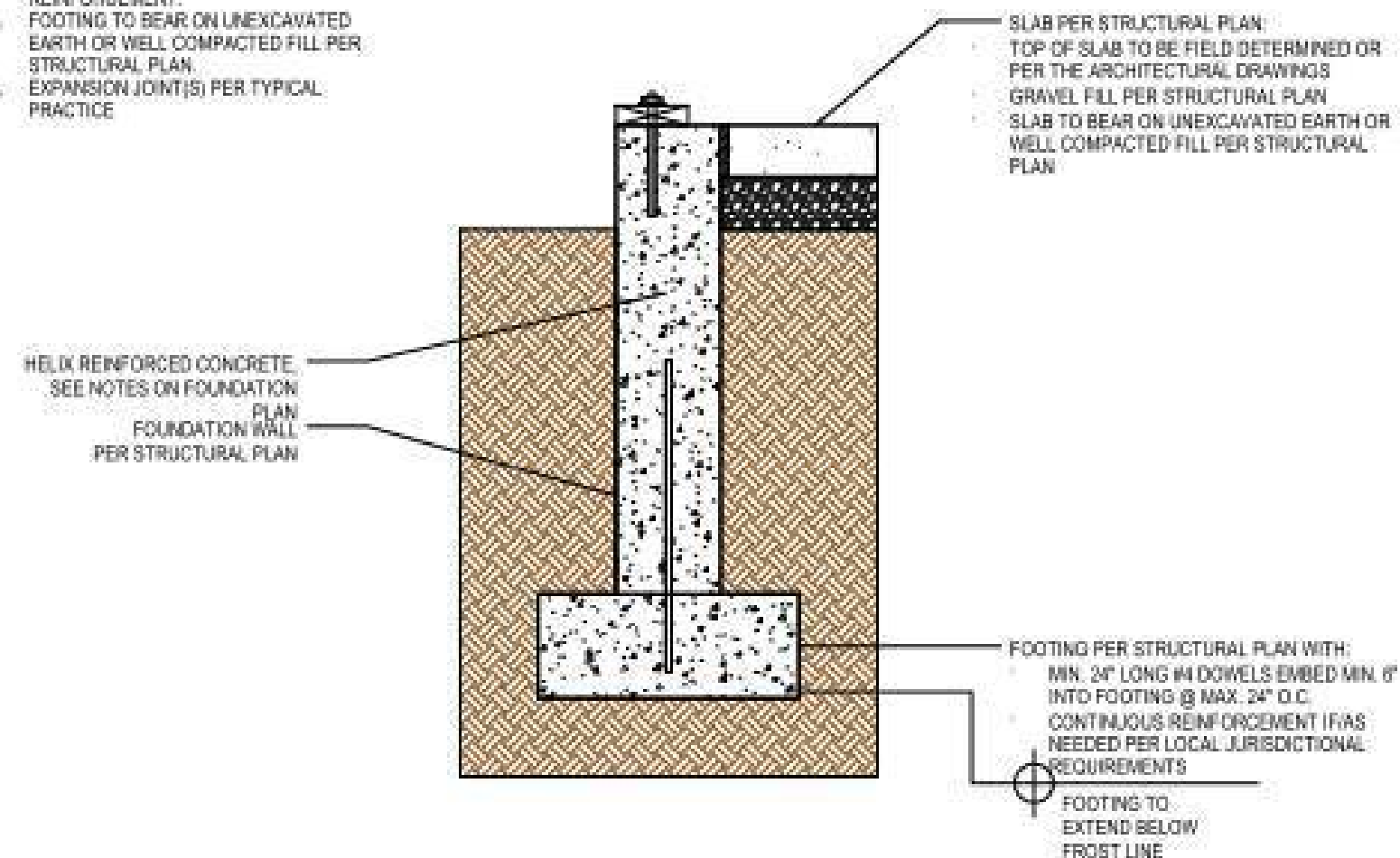
**3 TYPICAL STEM WALL w/ STRUCTURAL SLAB ADJACENT**

- DETAIL NOTES:
1. FLOORWALL FRAMING AND ANCHORAGE ABOVE PER STRUCTURAL PLAN.
  2. MIN. 3/4" COVER FOR FOUNDATION WALL REINFORCEMENT.
  3. FOOTING TO BEAR ON UNEXCAVATED EARTH OR WELL COMPACTED FILL PER STRUCTURAL PLAN.
  4. EXPANSION JOINT(S) PER TYPICAL PRACTICE.

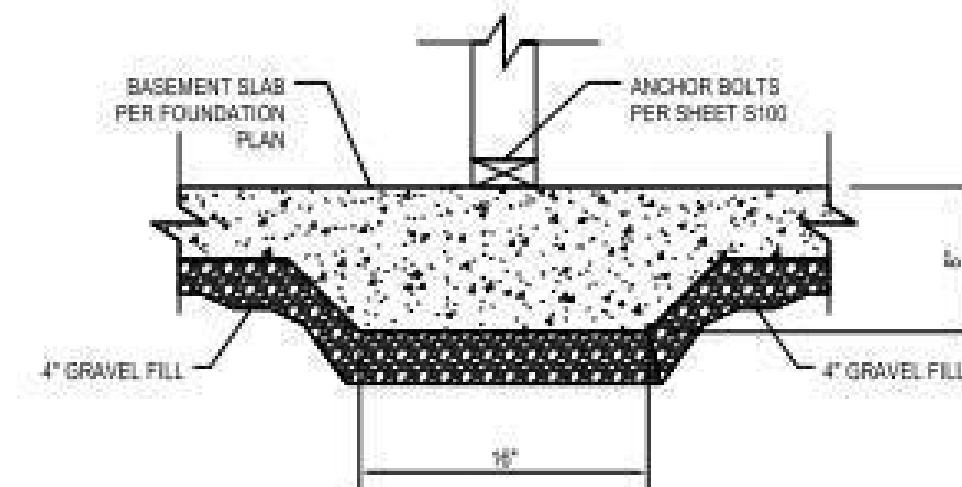


**4 TYPICAL STEM WALL w/ MULTIPLE STRUCTURAL LEDGES**

- DETAIL NOTES:
1. FLOORWALL FRAMING AND ANCHORAGE ABOVE PER STRUCTURAL PLAN.
  2. MIN. 3/4" COVER FOR FOUNDATION WALL REINFORCEMENT.
  3. FOOTING TO BEAR ON UNEXCAVATED EARTH OR WELL COMPACTED FILL PER STRUCTURAL PLAN.
  4. EXPANSION JOINT(S) PER TYPICAL PRACTICE.

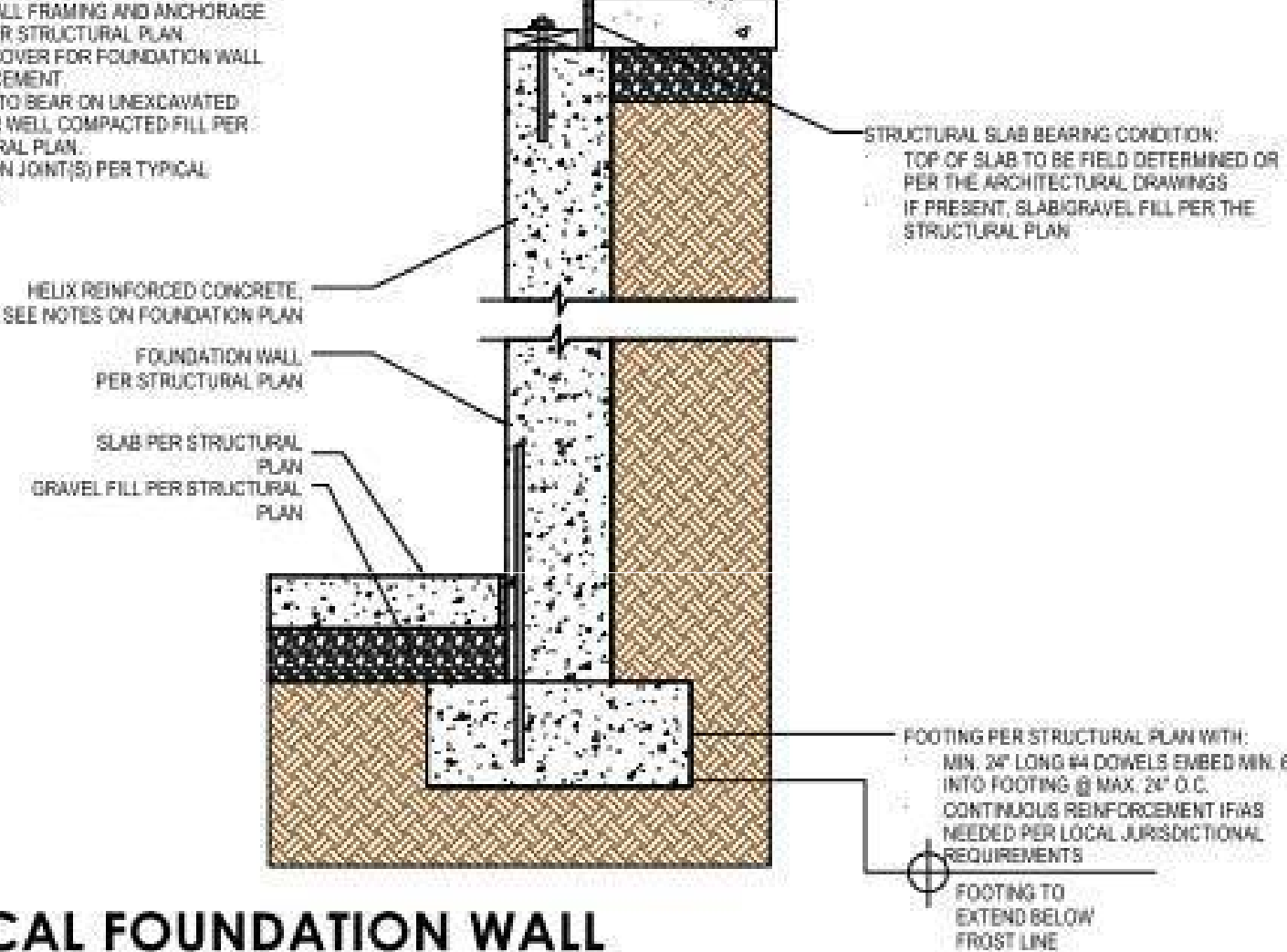


**5 TYPICAL STEM WALL w/ SLAB-ON-GRADE ADJACENT**



**6 TYPICAL THICKENED SLAB**

- DETAIL NOTES:
1. FLOORWALL FRAMING AND ANCHORAGE ABOVE PER STRUCTURAL PLAN.
  2. MIN. 3/4" COVER FOR FOUNDATION WALL REINFORCEMENT.
  3. FOOTING TO BEAR ON UNEXCAVATED EARTH OR WELL COMPACTED FILL PER STRUCTURAL PLAN.
  4. EXPANSION JOINT(S) PER TYPICAL PRACTICE.



**7 TYPICAL FOUNDATION WALL w/ STRUCTURAL SLAB BEARING ALTERNATIVE**

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

TRUMARK HOMES  
KYLE V  
ELEVATION A  
LOT 108 WOODSIDE RESERVE  
105 NW AMBER SHAM DR  
LEE SUMMIT MO

SCALE  
1/4" = 1'-0"

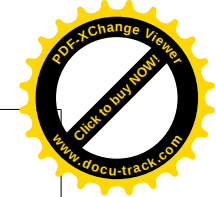
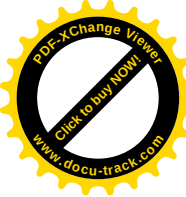
DATE  
1-11-20

PLAN NO.  
3350

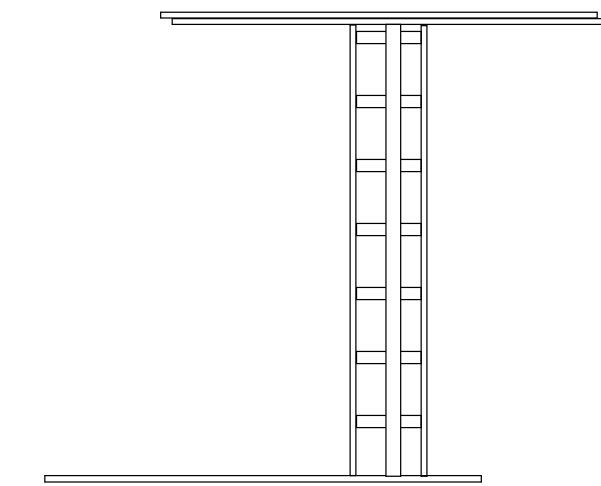
SHEET NO.

3 OF 6

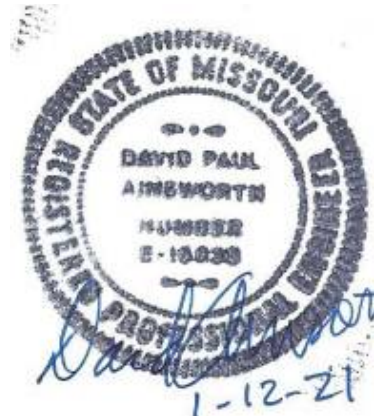
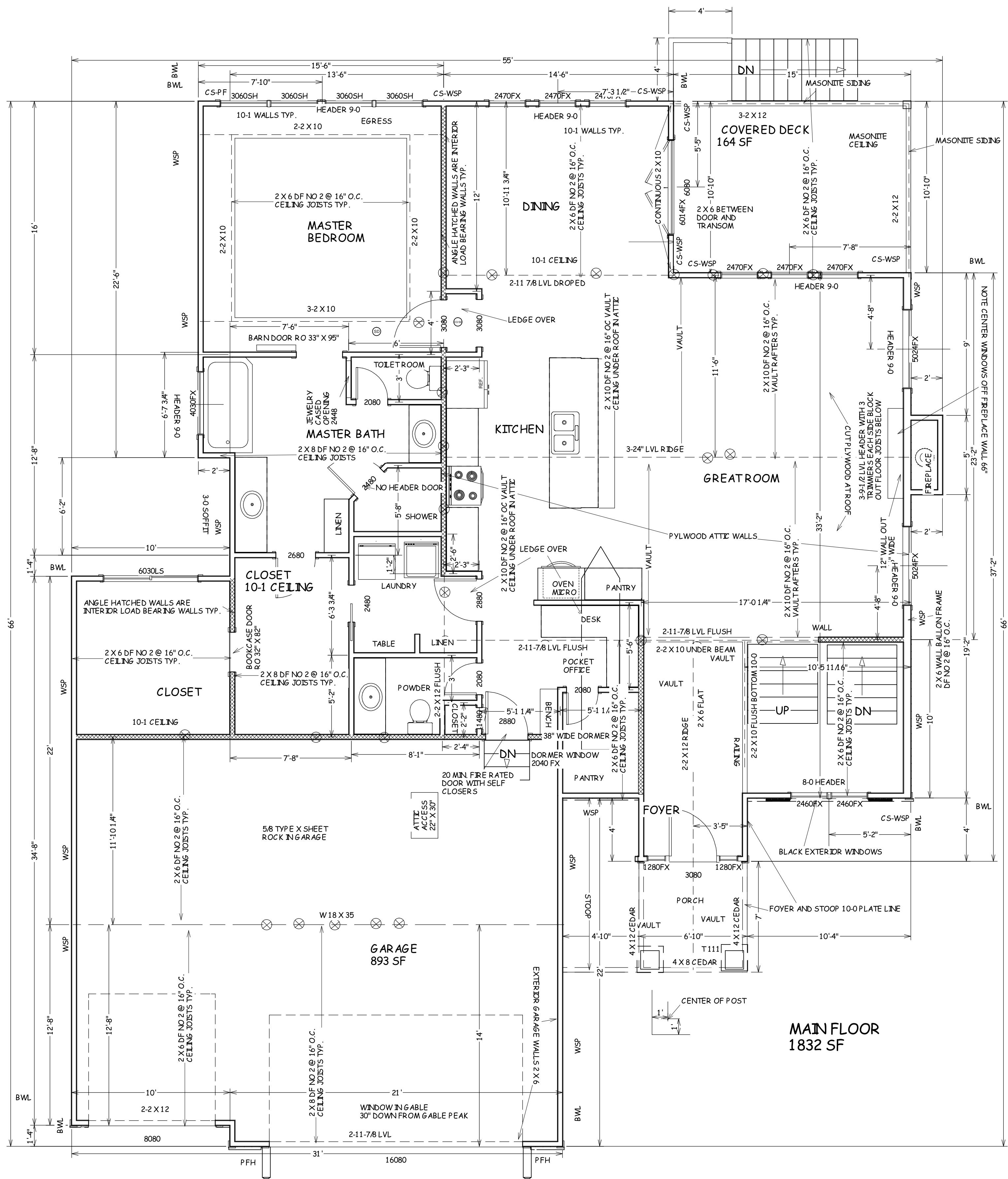




TYPICAL EXTERIOR CORNER FILE CORNER WITH STUDS



LADDER BLOCK WHERE INTERIOR WALLS INTERSECT WITH EXTERIOR WALLS



TRUMARK HOMES  
KYLE V  
ELEVATION A  
LOT 108 WOODSIDE RESERVE  
105 NW AMBERSHAM DR  
LEE SUMMIT MO

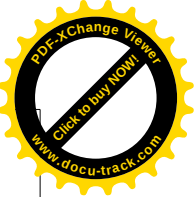
BUILD IN ACCORDANCE WITH  
2018 INTERNATIONAL  
RESIDENTIAL CODE AND  
LOCAL CODES.

SCALE  
1/4" = 1'-0"

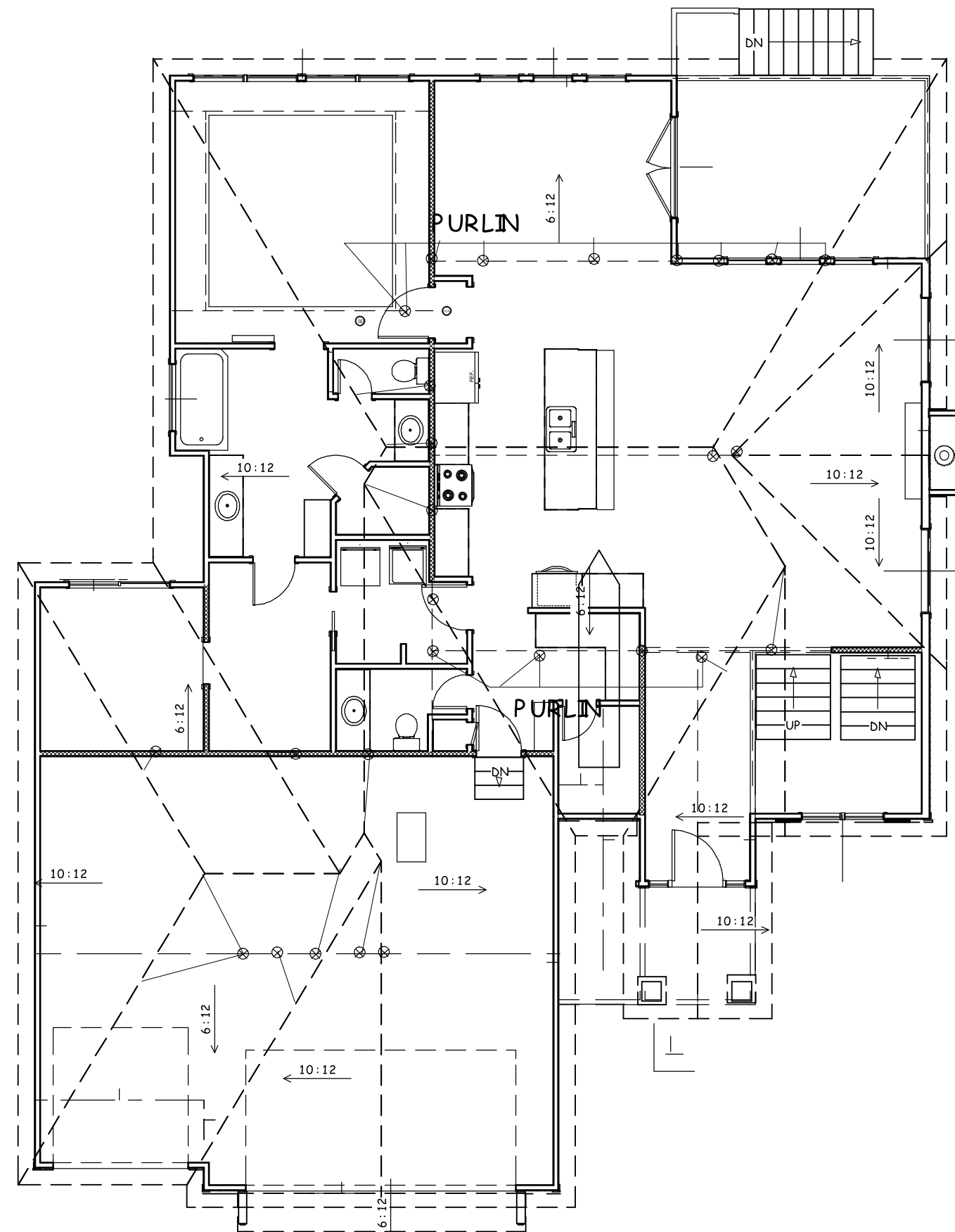
DATE  
1-11-20

PLAN NO.  
3350

SHEET NO.  
4 OF 6



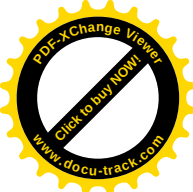
DUCTWORK NEEDS TO HAVE AN R-8 VALUE



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

TRUMARK HOMES  
KYLE V  
ELEVATION A  
LOT 108 WOODSIDE RESERVE  
105 NW AMBERSHAM DR  
LEE SUMMIT MO

SHEET NO.  
5 OF 6



| TABLE R602.10.2(1)<br>BRACING REQUIREMENTS BASED ON WIND SPEED                                |                |                                                                                                        |                         |           |                                                                                 |                                   |
|-----------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------|-------------------------|-----------|---------------------------------------------------------------------------------|-----------------------------------|
| EXPOSURE CATEGORY B<br>10-FOOT MEAN ROOF HEIGHT<br>10-FOOT WALL HEIGHT<br>3 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<br>(feet)                                                                  | Method L1B <sup>b</sup> | Method Q8 | Methods<br>DWB, WSP, SFB,<br>PBS, PCP, HPS,<br>BV-WSP, ASB, PFH,<br>PFC, CS-SFB | Methods<br>CS-WSP, CS-Q,<br>CS-PF |
| ≤ 115                                                                                         |                | 10                                                                                                     | 3.5                     | 3.5       | 2.0                                                                             | 2.0                               |
|                                                                                               |                | 20                                                                                                     | 6.5                     | 6.5       | 3.5                                                                             | 3.5                               |
|                                                                                               |                | 30                                                                                                     | 9.5                     | 9.5       | 5.5                                                                             | 4.5                               |
|                                                                                               |                | 40                                                                                                     | 12.5                    | 12.5      | 7.0                                                                             | 6.0                               |
|                                                                                               |                | 50                                                                                                     | 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                      | 18.5      | 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                              |

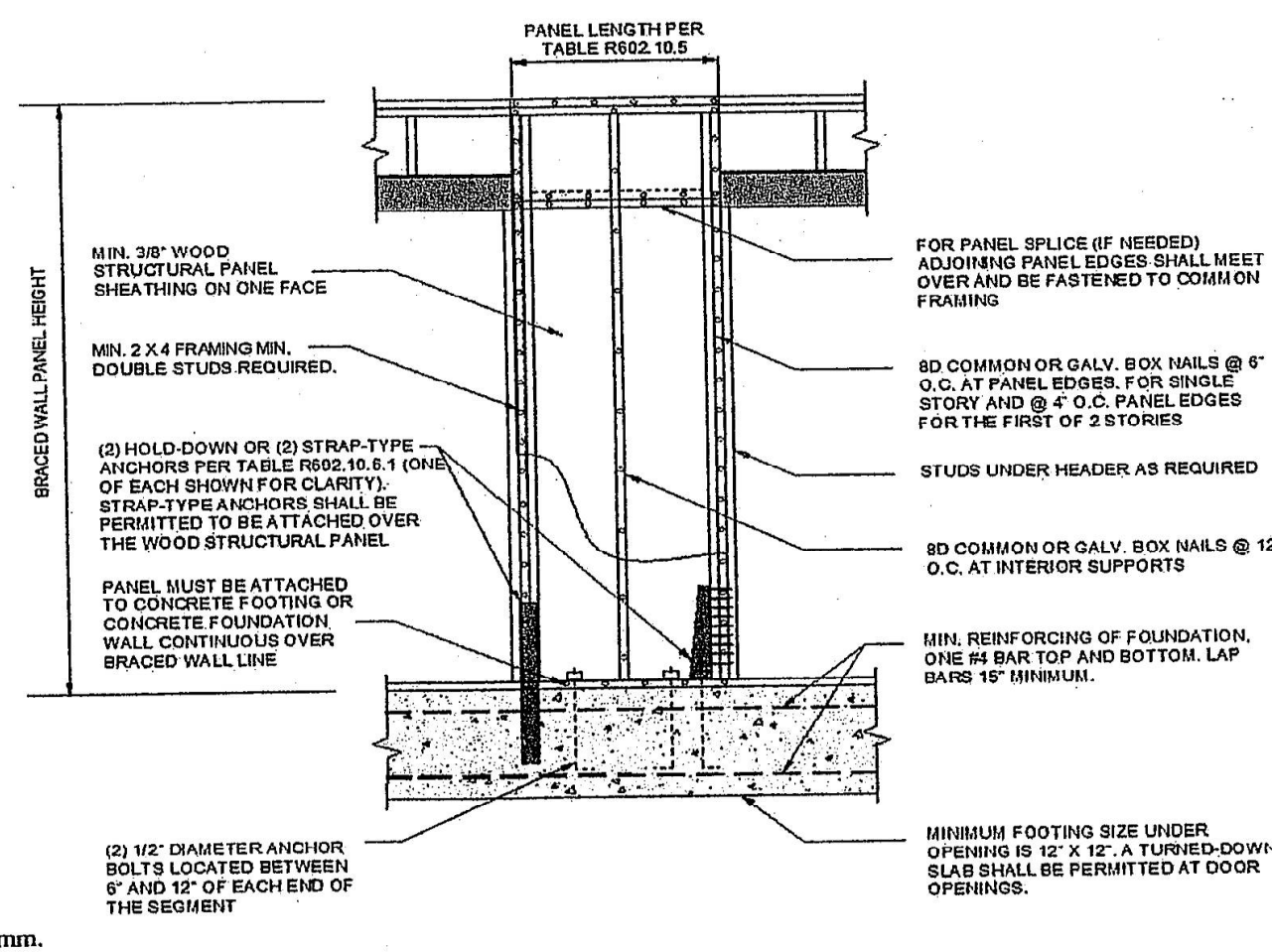
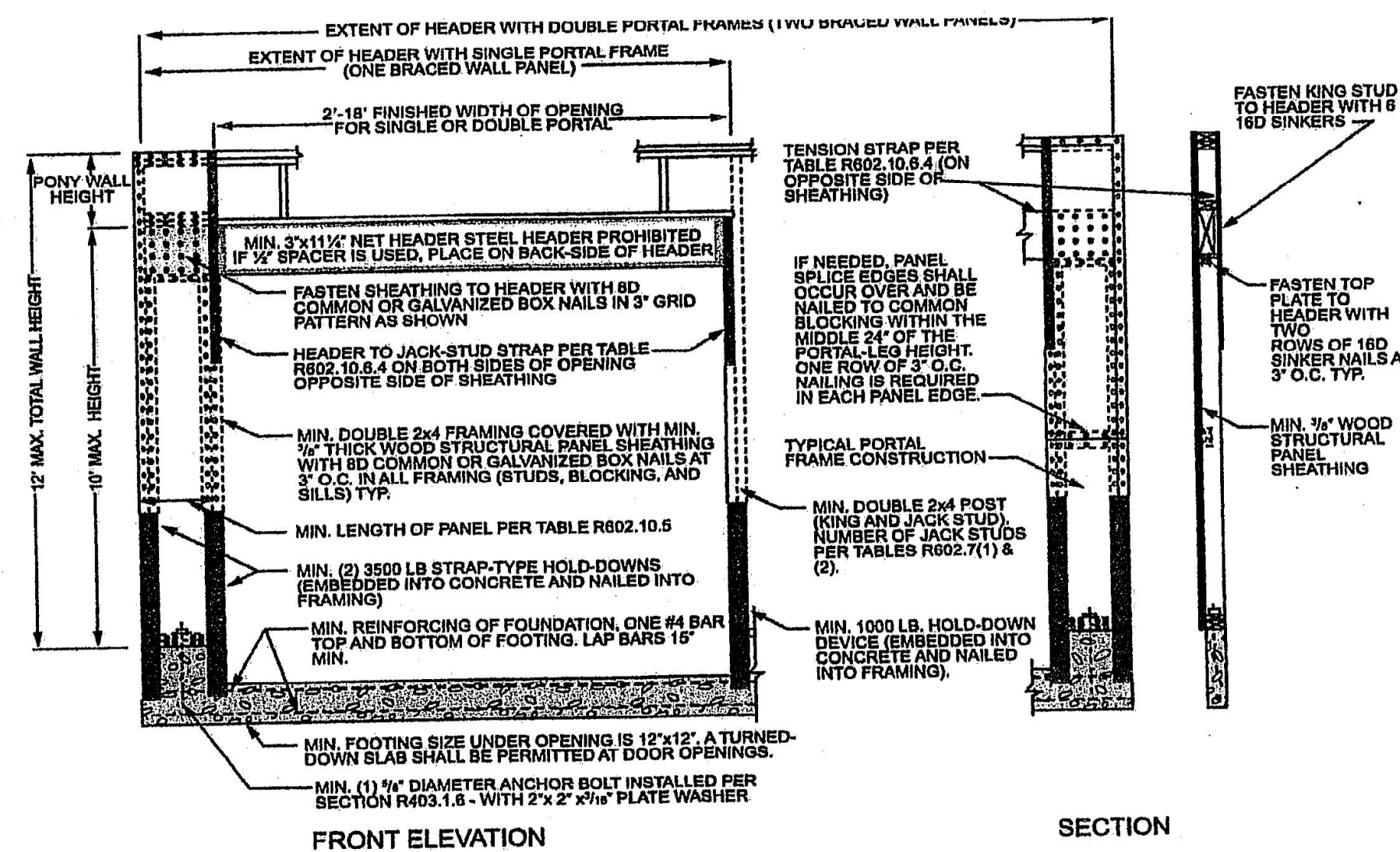


FIGURE R602.10.6.1  
METHOD ABW—ALTERNATE BRACED WALL PANEL



4 mm, 1 foot = 304.8 mm.

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

| TABLE R602.10.4<br>BRACING METHODS |                                                                                                      |        |                                                                                                                         |                                                                     |
|------------------------------------|------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| METHODS, MATERIAL                  | MINIMUM THICKNESS                                                                                    | FIGURE | CONNECTION CRITERIA <sup>a</sup>                                                                                        |                                                                     |
|                                    |                                                                                                      |        | Fasteners                                                                                                               | Spacing                                                             |
| Intermittent Bracing Methods       | L1B<br>Let-in-bracing                                                                                |        | Wood: 1 x 4 wood or approved metal straps at 45° to 60° angles for maximum 16\"/>                                       | Wood: per stud and top and bottom plates<br>Metal: per manufacturer |
|                                    | DWB<br>Diagonal wood boards                                                                          |        | 2-8d (2 1/2\"/>                                                                                                         | Per stud                                                            |
|                                    | WSP<br>Wood structural panel (See Section R604)                                                      |        | Exterior sheathing per Table R602.3(3)<br>Interior sheathing per Table R602.3(1) or R602.3(2)                           | 6\"/>                                                               |
|                                    | BV-WSP <sup>b</sup><br>Wood structural panels with stone or masonry veneer (See Section R602.10.6.5) |        | 8d common (2 1/2\"/>                                                                                                    | 4\"/>                                                               |
|                                    | SFB<br>Structural fiberboard sheathing                                                               |        | 1 1/2\"/>                                                                                                               | 3\"/>                                                               |
|                                    | GB<br>Gypsum board                                                                                   |        | Nails or screws per Table R602.3(1) for exterior locations<br>Nails or screws per Table R702.3.5 for interior locations | For all braced wall panel locations: 7\"/>                          |
|                                    | PBS<br>Particleboard sheathing (See Section R605)                                                    |        | For 1/2\"/>                                                                                                             | 3\"/>                                                               |
|                                    | PCP<br>Portland cement plaster                                                                       |        | 1 1/2\"/>                                                                                                               | 6\"/>                                                               |
|                                    | HPS<br>Hardboard panel siding                                                                        |        | 0.092\"/>                                                                                                               | 4\"/>                                                               |
|                                    | ABW<br>Alternate braced wall                                                                         |        | See Section R602.10.6.1                                                                                                 | See Section R602.10.6.1                                             |

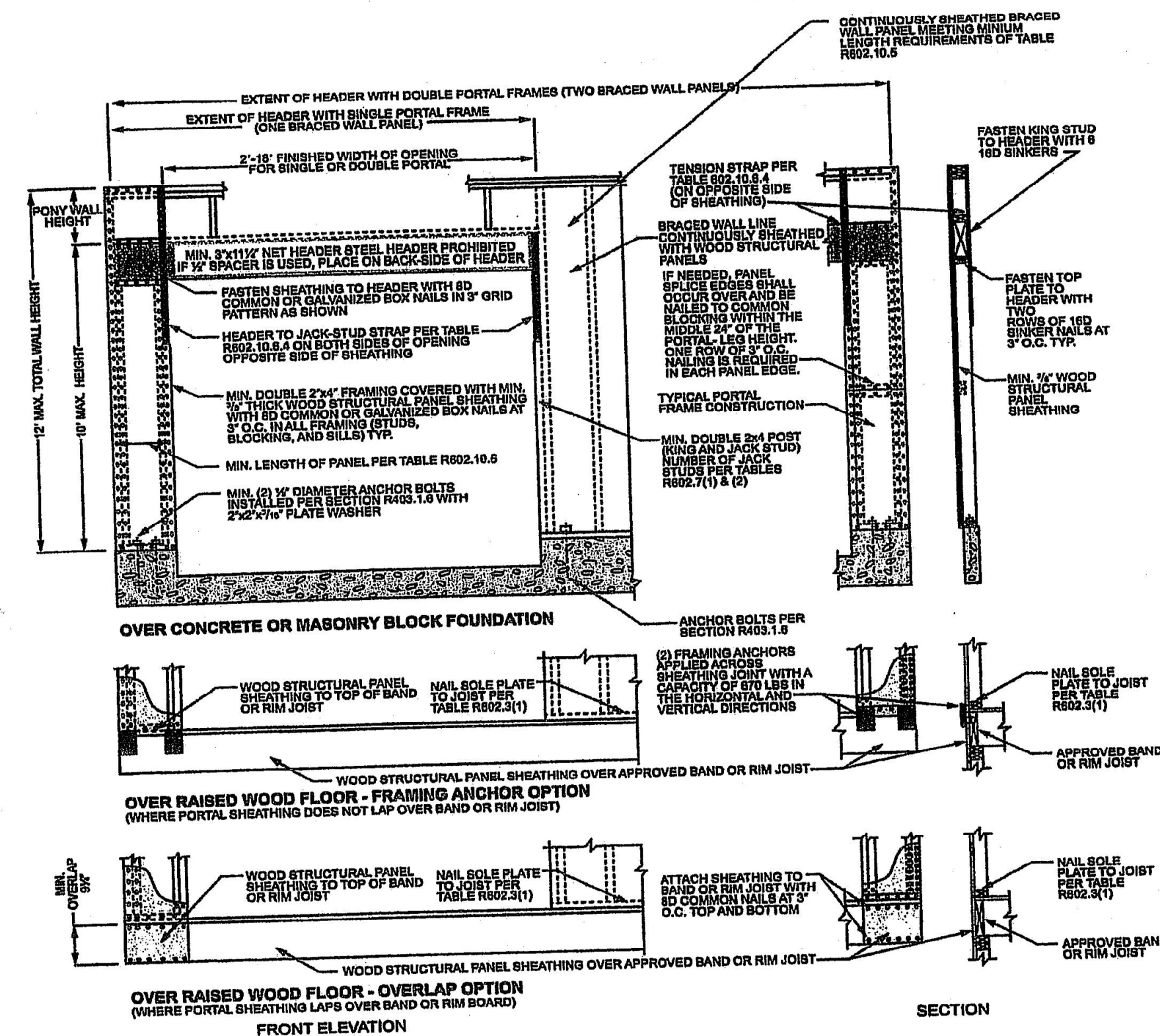
| TABLE R602.10.5<br>MINIMUM LENGTH OF BRACED WALL PANELS |                                                                                               |        |         |         |         |                                                      |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------|---------|---------|---------|------------------------------------------------------|
| 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, PBS, PCP, 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 |
| L1B                                                     | 55                                                                                            | 62     | 69      | NP      | NP      | Actual <sup>b</sup>                                  |
| ABW                                                     | SDC A, B and C, ultimate design wind speed < 140 mph                                          | 28     | 32      | 34      | 38      | 42                                                   |
|                                                         | SDC D <sub>0</sub> , D <sub>1</sub> and D <sub>2</sub> , ultimate design wind speed < 140 mph | 32     | 32      | 34      | NP      | NP                                                   |
| CS-G                                                    | Adjacent clear opening height (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      | 35      | 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                                                   |
| METHOD<br>(See Table R602.10.4)                         | Portal header height                                                                          | 8 feet | 9 feet  | 10 feet | 11 feet | 12 feet                                              |
|                                                         | Supporting roof only                                                                          | 16     | 16      | 16      | Note c  | Note c                                               |
| PFH                                                     | 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>0</sub> , D <sub>1</sub> and D <sub>2</sub>                                        | 16     | 18      | 20      | Note e  | Note e                                               |

For SI: 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 PFH 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                 |
| Intermittent Bracing Methods                 | PFH<br>Portal frame with hold-downs                                                           |        | See Section R602.10.6.2                                                                       | See Section R602.10.6.2 |
|                                              | PFG<br>Portal frame at garage                                                                 |        | See Section R602.10.6.3                                                                       | See Section R602.10.6.3 |
| Continuous Sheathing Methods                 | CS-WSP<br>Continuously sheathed wood structural panel                                         |        | Exterior sheathing per Table R602.3(3)<br>Interior sheathing per Table R602.3(1) or R602.3(2) | 6\"/>                   |
|                                              | CS-GP <sup>b</sup><br>Continuously sheathed wood structural panel adjacent to garage openings |        | See Method CS-WSP                                                                             | See Method CS-WSP       |
|                                              | CS-PF<br>Continuously sheathed portal frame                                                   |        | See Section R602.10.6.4                                                                       | See Section R602.10.6.4 |
|                                              | CS-SFB <sup>c</sup><br>Continuously sheathed structural fiberboard                            |        | 1 1/2\"/>                                                                                     | 3\"/>                   |

For SI: 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>0</sub>, D<sub>1</sub> and D<sub>2</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>0</sub>, D<sub>1</sub> and D<sub>2</sub>, roof covering dead load shall not exceed 3 psf.  
c. Garage openings adjacent to a Method CS-GP 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-GP panel.  
d. Method CS-SFB does not apply in Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub>.  
e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D<sub>0</sub> through D<sub>2</sub> only.



For SI: 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  
2018 INTERNATIONAL  
RESIDENTIAL CODE AND  
LOCAL CODES.

TRUMARK HOMES  
KYLE V  
ELEVATION A  
LOT 108 WOODSIDE RESERVE  
105 NW AMBERSHAM DR  
LEE SUMMIT MO

SCALE  
1/4" = 1-0

DATE  
1-11-20

PLAN NO.  
3350

SHEET NO.

6 OF 6

