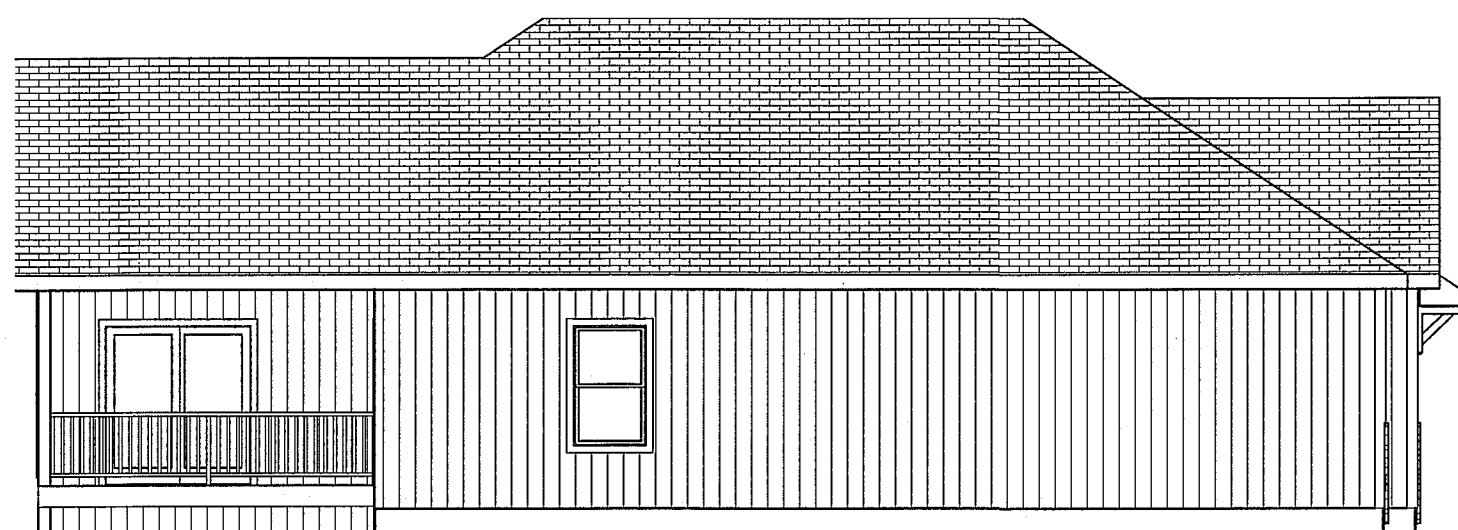


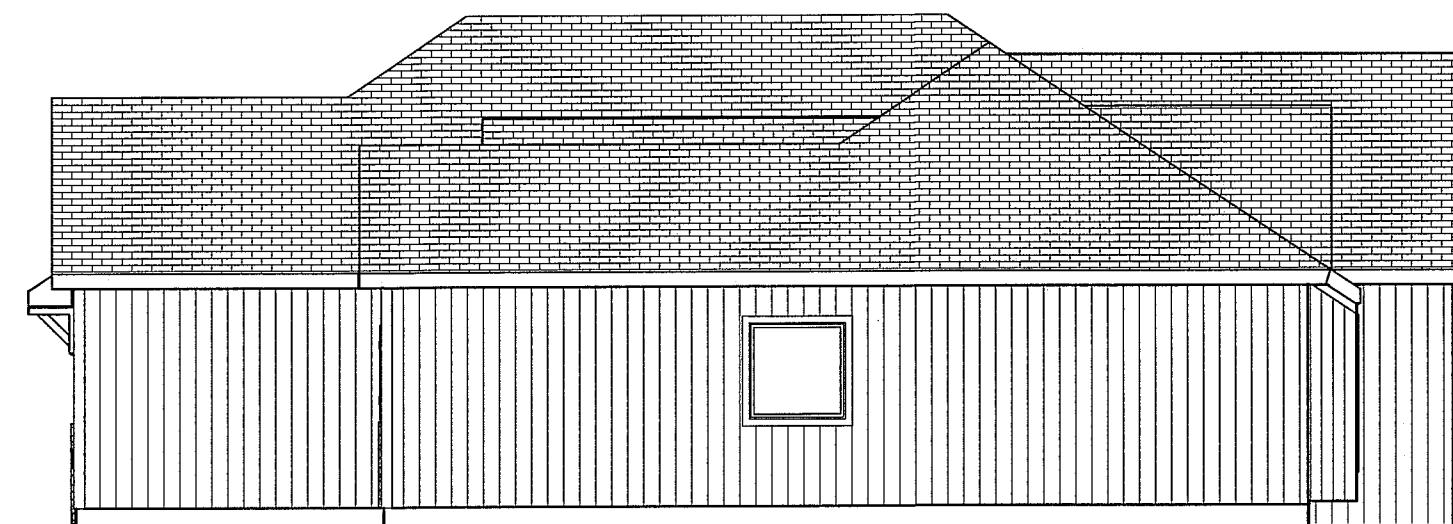


FRONT EL.  
LAP, SHAKE & STONE



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

LP PANEL SIDING 3 SIDES



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



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

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

BEHOME LLC  
MOORE HOME  
LOT 122 MONTICELLO  
4824 JAMESTOWN DR  
LEE SUMMIT MO

SCALE

1/4" = 1'-0"

DATE

3-11-21

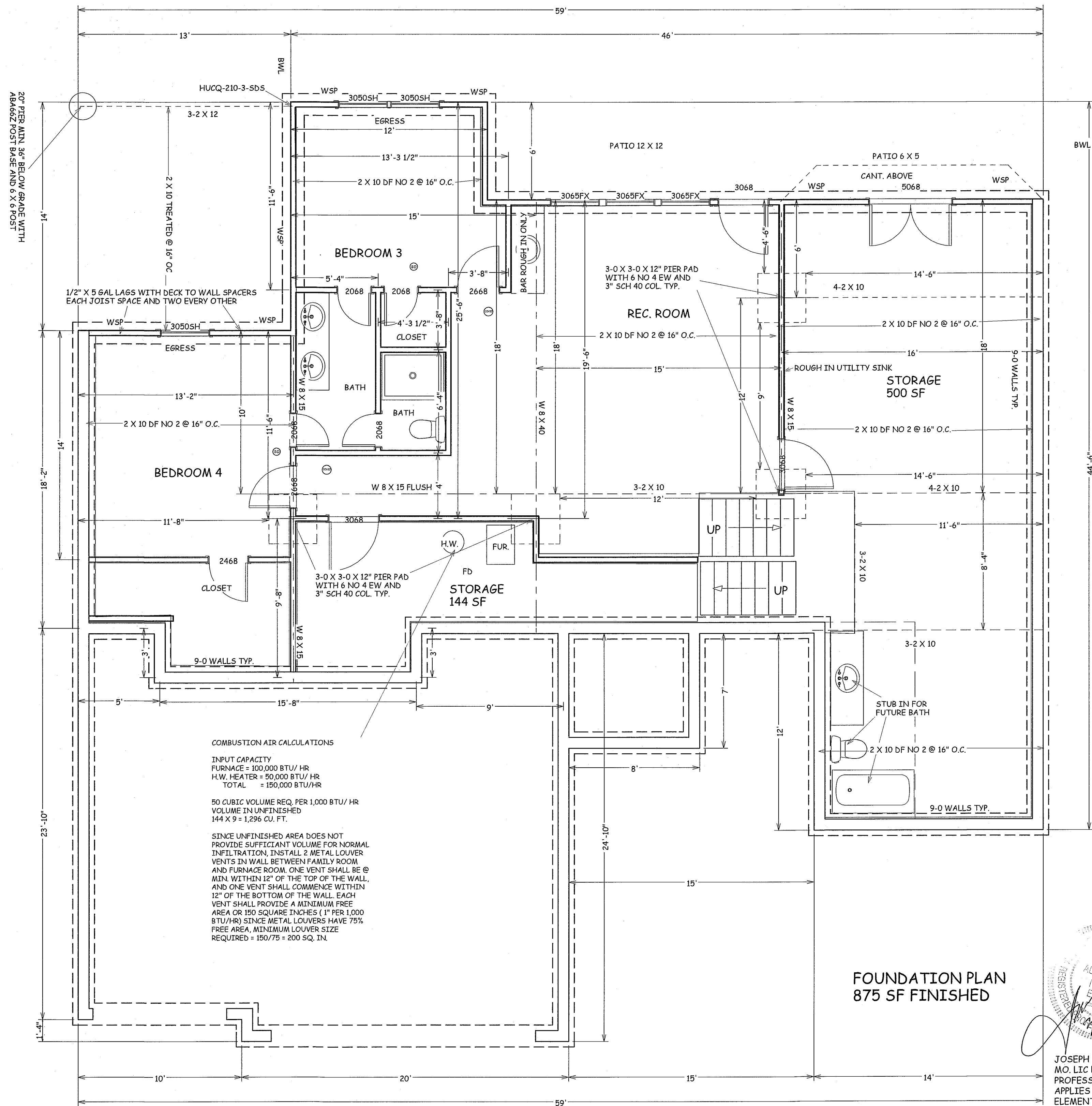
PLAN NO.

3404

SHEET NO.

1 OF 5

JOSEPH A. TOWNS P.E.  
MO. LIC E 22017  
PROFESSIONAL SEAL  
APPLIES TO STRUCTURAL  
ELEMENTS ONLY



BUILD IN ACCORDANCE WITH  
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LOCAL CODES.

BEHOME LLC  
MOORE HOME  
LOT 122 MONTICELLO  
4824 JAMESTOWN DR  
LEE SUMMIT MO

SCALE  
1/4" = 1'-0

DATE  
3-11-21

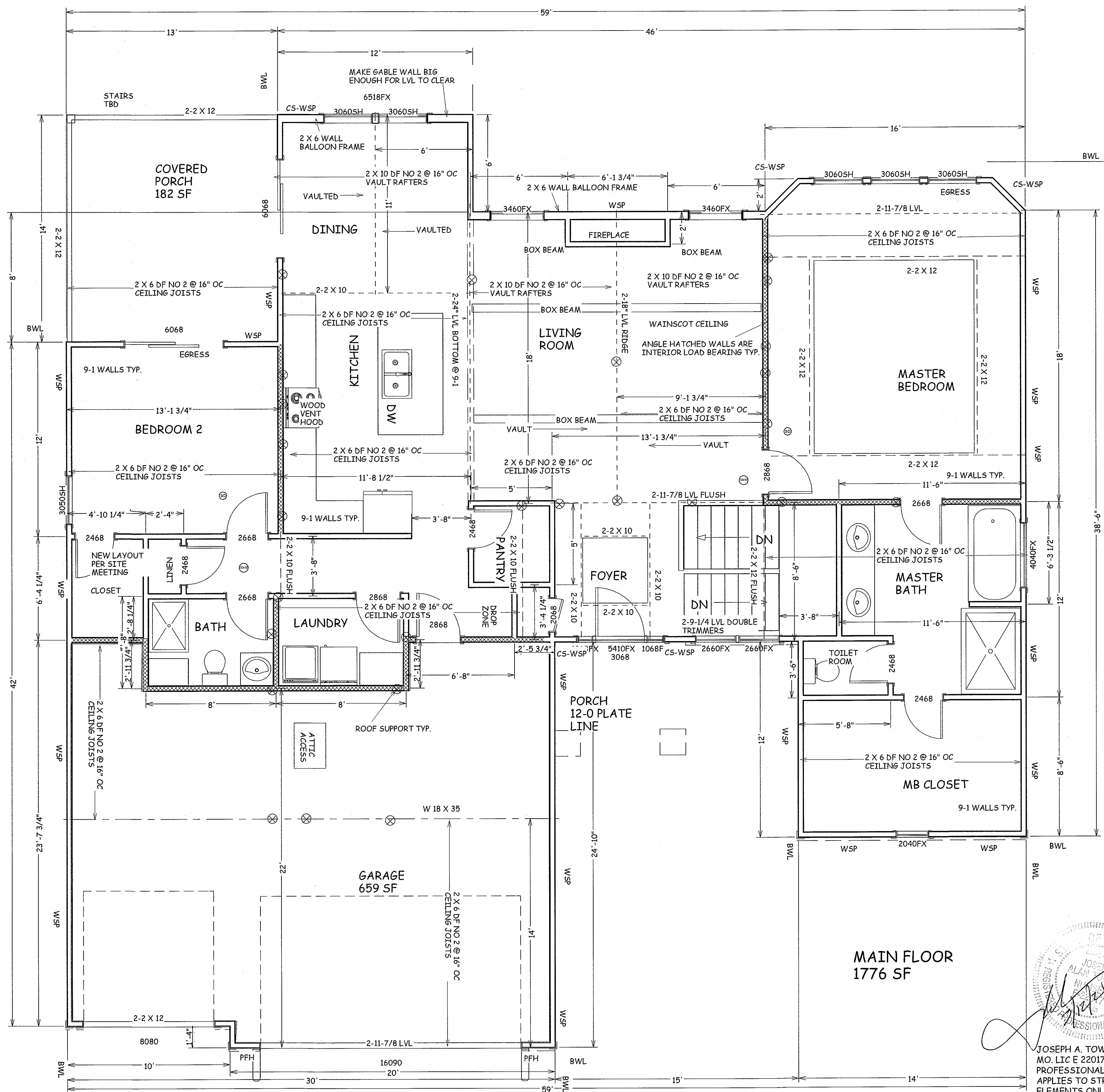
PLAN NO.

3404

SHEET NO.

2 OF 5

JOSEPH A. TOWNS P.E.  
MO. LIC E 22017  
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MOORE HOME  
LOT 122 MONTICELLO  
4824 JAMESTOWN DR  
LEE SUMMIT MO

SCALE  
1/4" = 1'-0"

DATE  
3-11-21

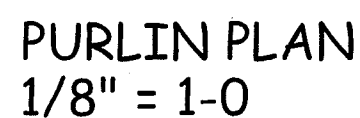
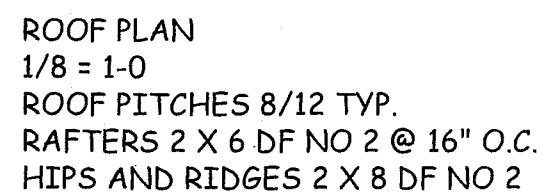
PLAN NO.

3404

SHEET NO.

3 OF 5

JOSEPH A. TOWNS P.E.  
MO. LIC E 22017  
PROFESSIONAL SEAL  
APPLIES TO STRUCTURAL  
ELEMENTS ONLY



DUCTWORK NEEDS TO HAVE AN R-8 VALUE



22. COMPLIANCE WITH THE REQUIREMENT AND SHOW CONNECTION AS  
NEEDED FOR ROOF BEAM, TRUS, RAFTER, AND GIRDER CONNECTION FOR  
UPLIFT PER IRC 802.11. ALL RAFTERS BE IN COMPLIANCE WITH IRC 502.11  
AMENDED RAYMORE CODE

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

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

BEHOME LLC  
MOORE HOME  
LOT 122 MONTICELLO  
4824 JAMESTOWN DR  
LEE SUMMIT MO

4 OF 5

JOSEPH A. TOWNS P.E.  
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APPLIES TO STRUCTURAL  
ELEMENTS ONLY

| EXPOSURE CATEGORY B<br>• 50-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, FBS, FCP, HPS,<br>BV-WSP, ABW, PFF, PFG, CS-SFB | Methods<br>CS-WEP, CS-O,<br>CS-PF |
| ≤ 115                                                                                               |                | 10                                                                                                     | 3.5                     | 3.5       | 3.0                                                                       | 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                              |

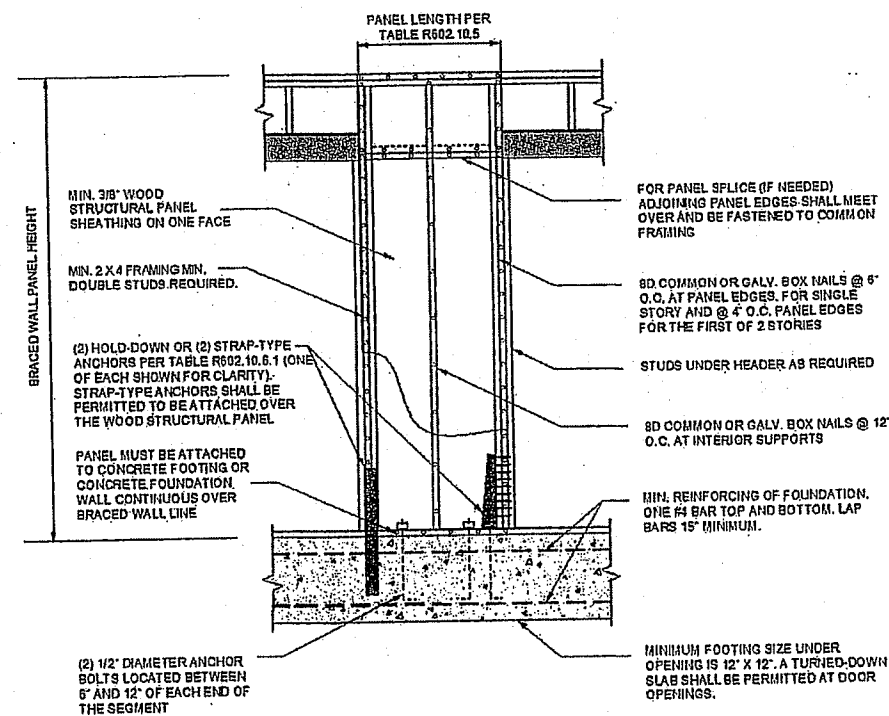


FIGURE R602.10.6.1  
METHOD ABW—ALTERNATE BRACED WALL PANEL

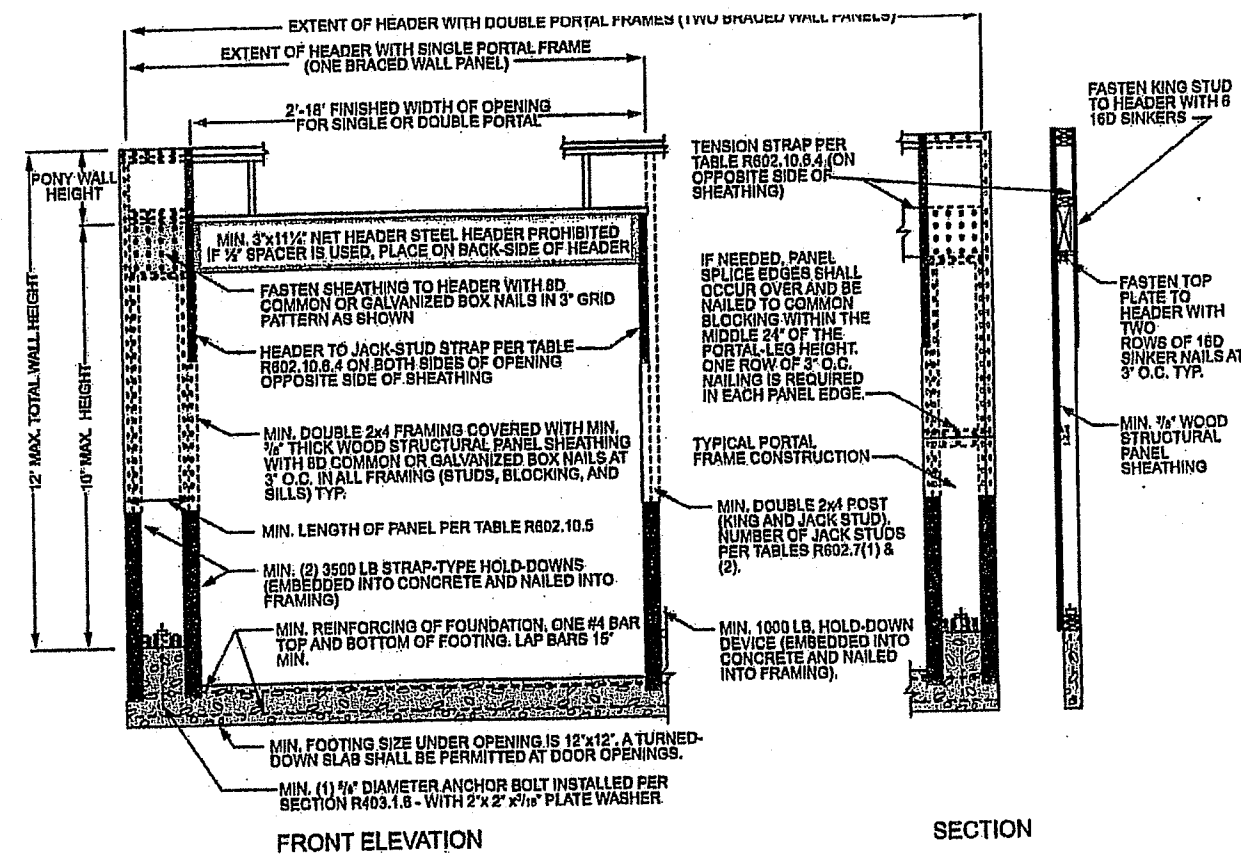


FIGURE R602.10.6.2  
METHOD PFF—PORTAL FRAME WITH HOLD-DOWNS

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

| METHOD<br>(See Table R602.10.4)      |                                                                                               | MINIMUM LENGTH <sup>a</sup><br>(inches) |        |         |         |         | CONTRIBUTING LENGTH<br>(inches)                      |
|--------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------|--------|---------|---------|---------|------------------------------------------------------|
|                                      |                                                                                               | Wall Height                             |        |         |         |         |                                                      |
|                                      |                                                                                               | 8 foot                                  | 9 foot | 10 foot | 11 foot | 12 foot |                                                      |
| DWB, WSP, SFB, PBS, 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 design wind speed < 140 mph                                          | 28                                      | 32     | 34      | 38      | 42      | 48                                                   |
|                                      | SDC D <sub>1</sub> , D <sub>2</sub> and D <sub>3</sub> , ultimate design wind speed < 140 mph | 32                                      | 32     | 34      | NP      | NP      |                                                      |
| CS-G                                 |                                                                                               | 24                                      | 27     | 30      | 33      | 36      | Actual <sup>b</sup>                                  |
| CS-WSP, CS-SFB                       | Adjacent clear opening height (inches)                                                        |                                         |        |         |         |         | Actual <sup>b</sup>                                  |
|                                      | ≤ 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                    |        |         |         |         |                                                      |
| FFH                                  | Supporting roof only                                                                          | 8 foot                                  | 9 foot | 10 foot | 11 foot | 12 foot | 48                                                   |
|                                      | Supporting one story and roof                                                                 | 16                                      | 16     | 16      | Note c  | Note c  |                                                      |
| PFG                                  | Supporting one story and roof                                                                 | 24                                      | 24     | 24      | Note c  | Note c  | 1.5 x Actual <sup>b</sup>                            |
|                                      | SDC D <sub>1</sub> , D <sub>2</sub> and D <sub>3</sub>                                        | 24                                      | 27     | 30      | Note d  | Note d  |                                                      |
| CS-PF                                | SDC A, B and C                                                                                | 16                                      | 18     | 20      | Note e  | Note e  | 1.5 x Actual <sup>b</sup>                            |
|                                      | SDC D <sub>1</sub> , D <sub>2</sub> and D <sub>3</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 PFF 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.

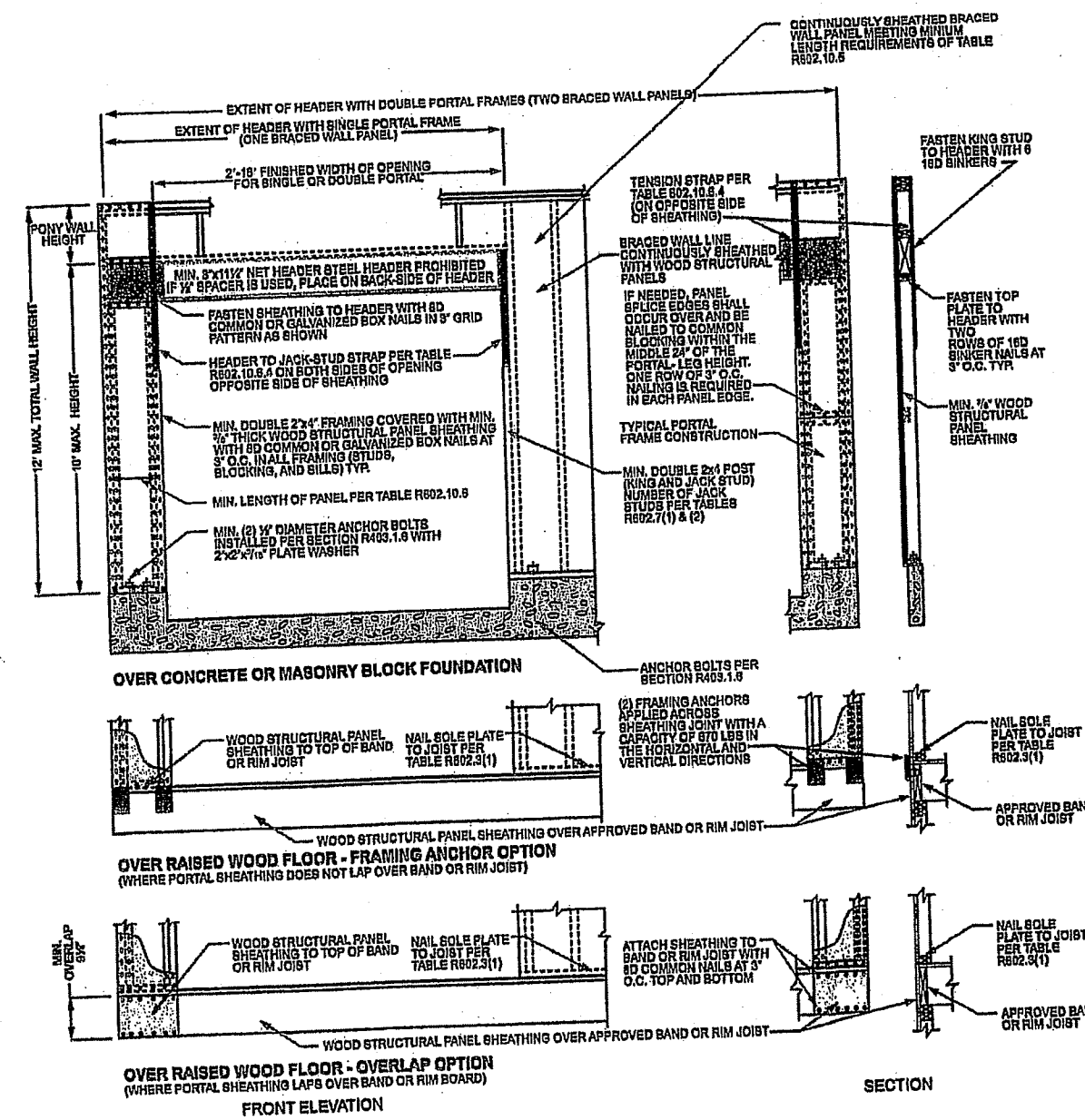


FIGURE R602.10.6.4  
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

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

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SCALE  
1/4\" = 1-0

DATE  
3-11-21

PLAN NO.

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5 OF 5

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