

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.

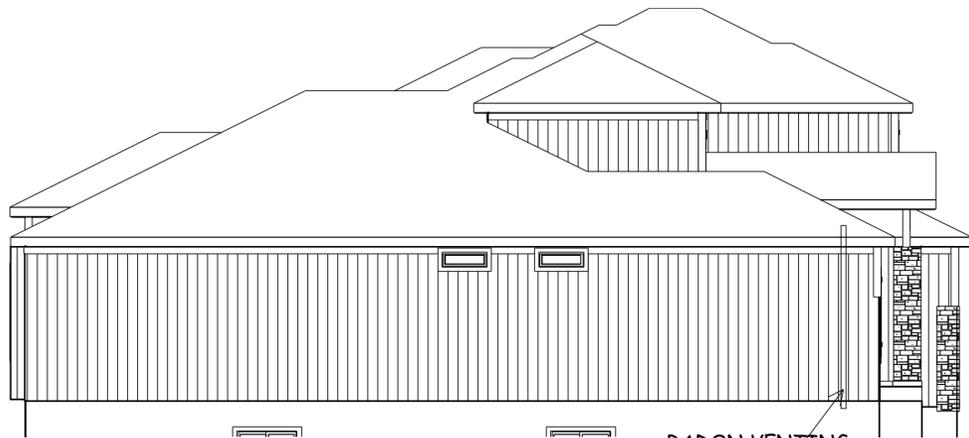


TURN CORNER STONE 18" FRONT ELEVATION STUCCO, & STONE SIDING
 8-0 GARAGE DOORS
 LONG PANEL BEAD BOARD ELEVATION B
 RETURNS LP SMART SIDING
 TURN CORNER STONE 18"



REAR EL.
 1/8 = 1-0

3 SIDES LP PANEL SIDING



LEFT EL.
 1/8 = 1-0

RADON VENTING



RIGHT EL.
 1/8 = 1-0



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W. LEE RHOAD AIA
 ARCHITECT

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

TRUARK HOMES
 LOT 18 WOODLAND OAKS
 2505 NE WOODLAND OAK CIR.
 LEE SUMMIT MO

SCALE
 1/4" = 1-0

DATE
 2-25-26

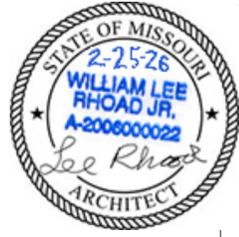
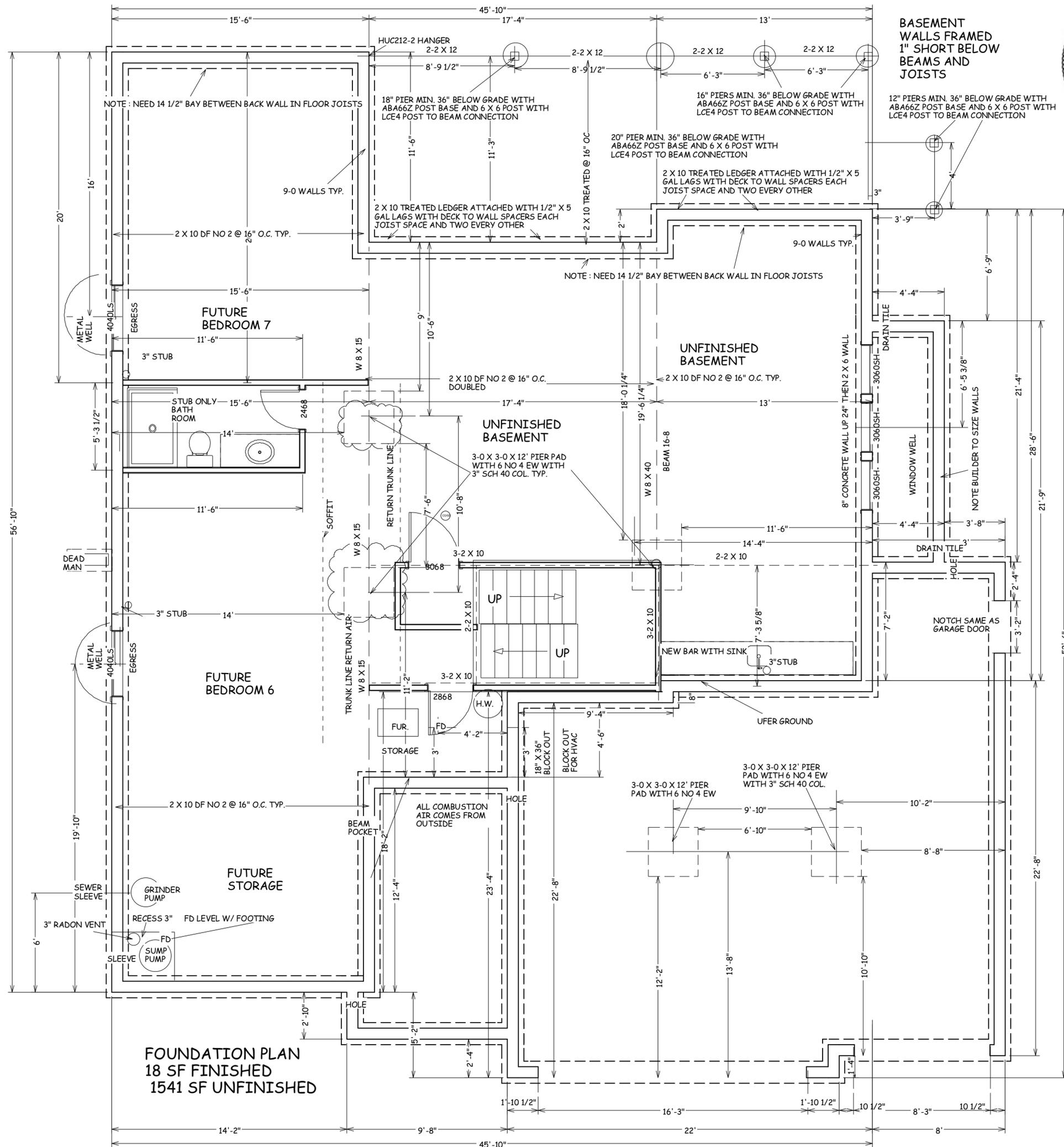
PLAN NO.

4603

SHEET NO.

1 OF 6

RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 02/27/2026 1:54:28



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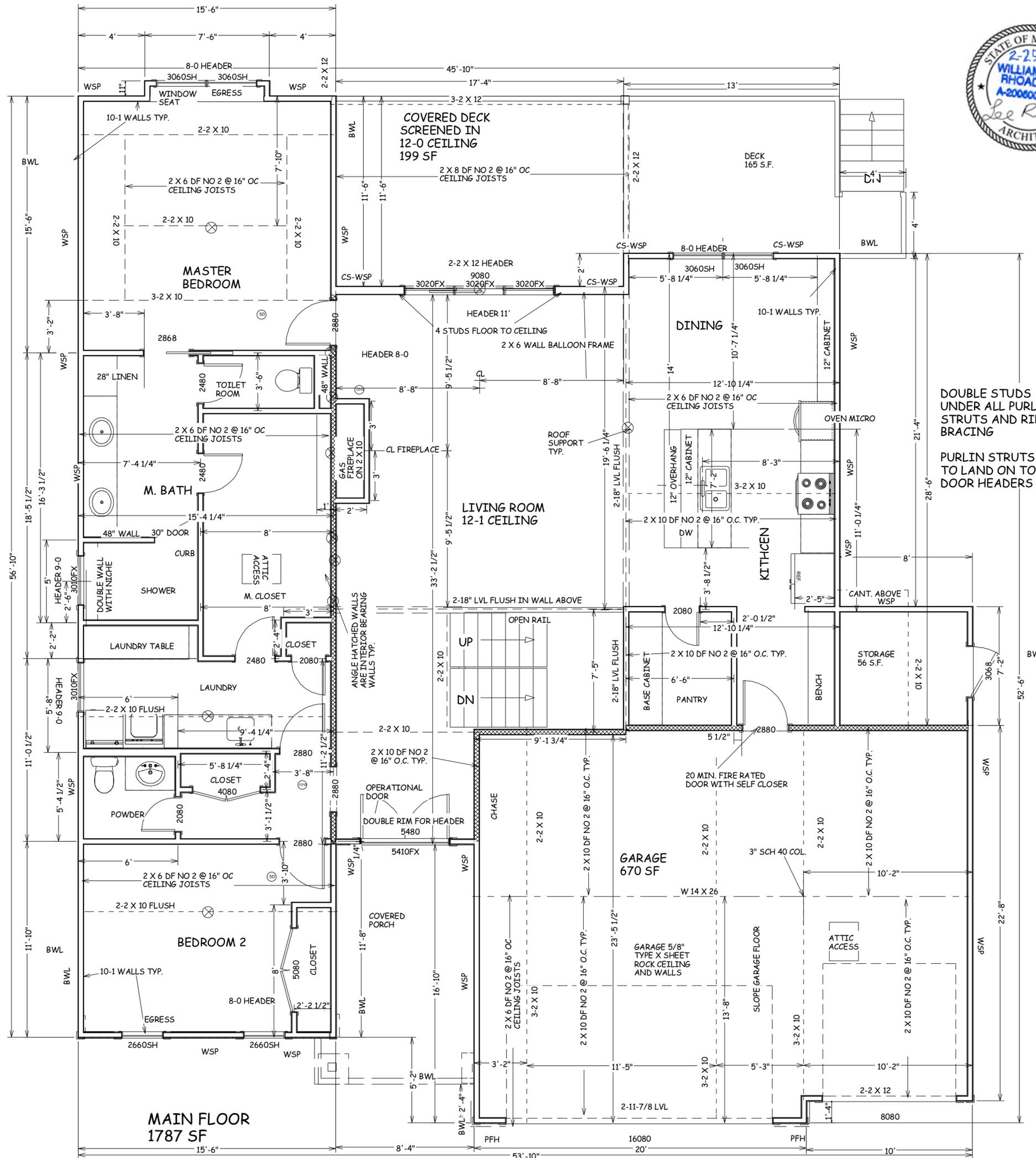
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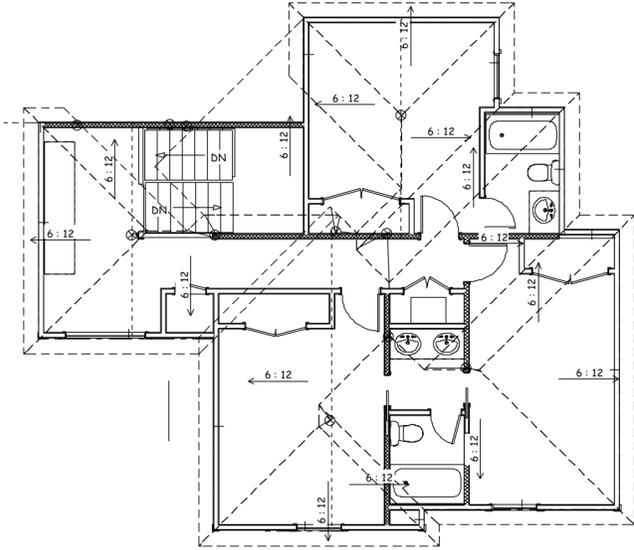
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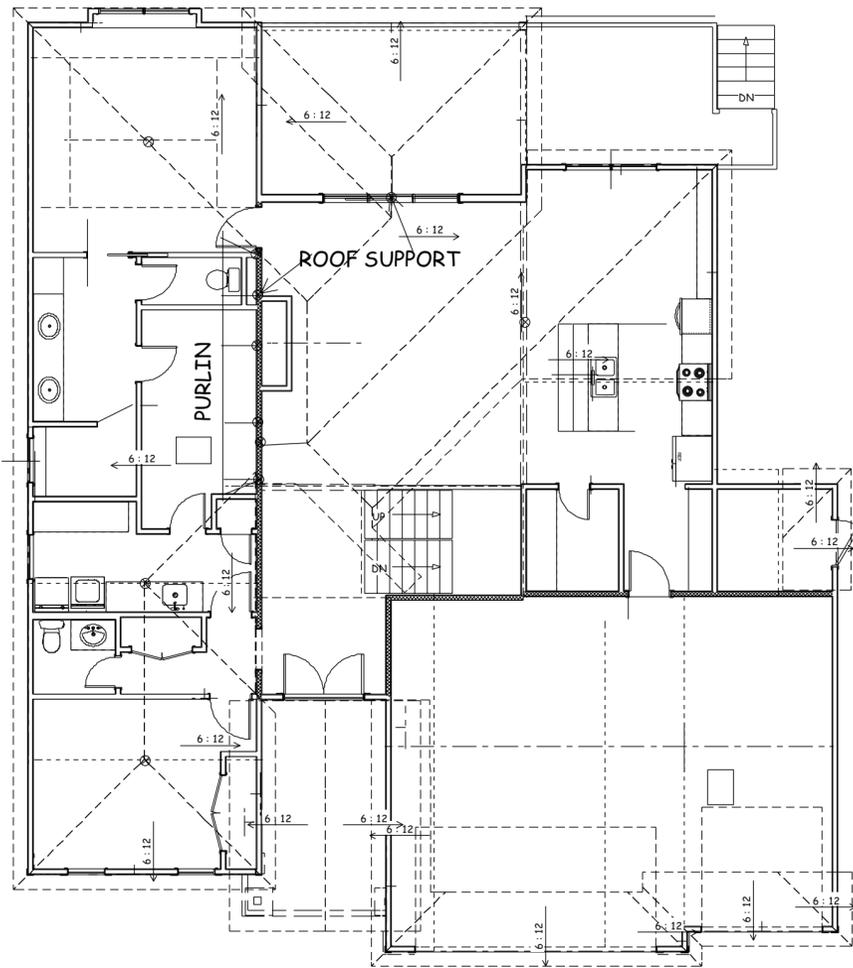
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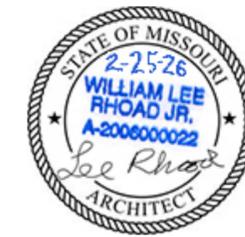
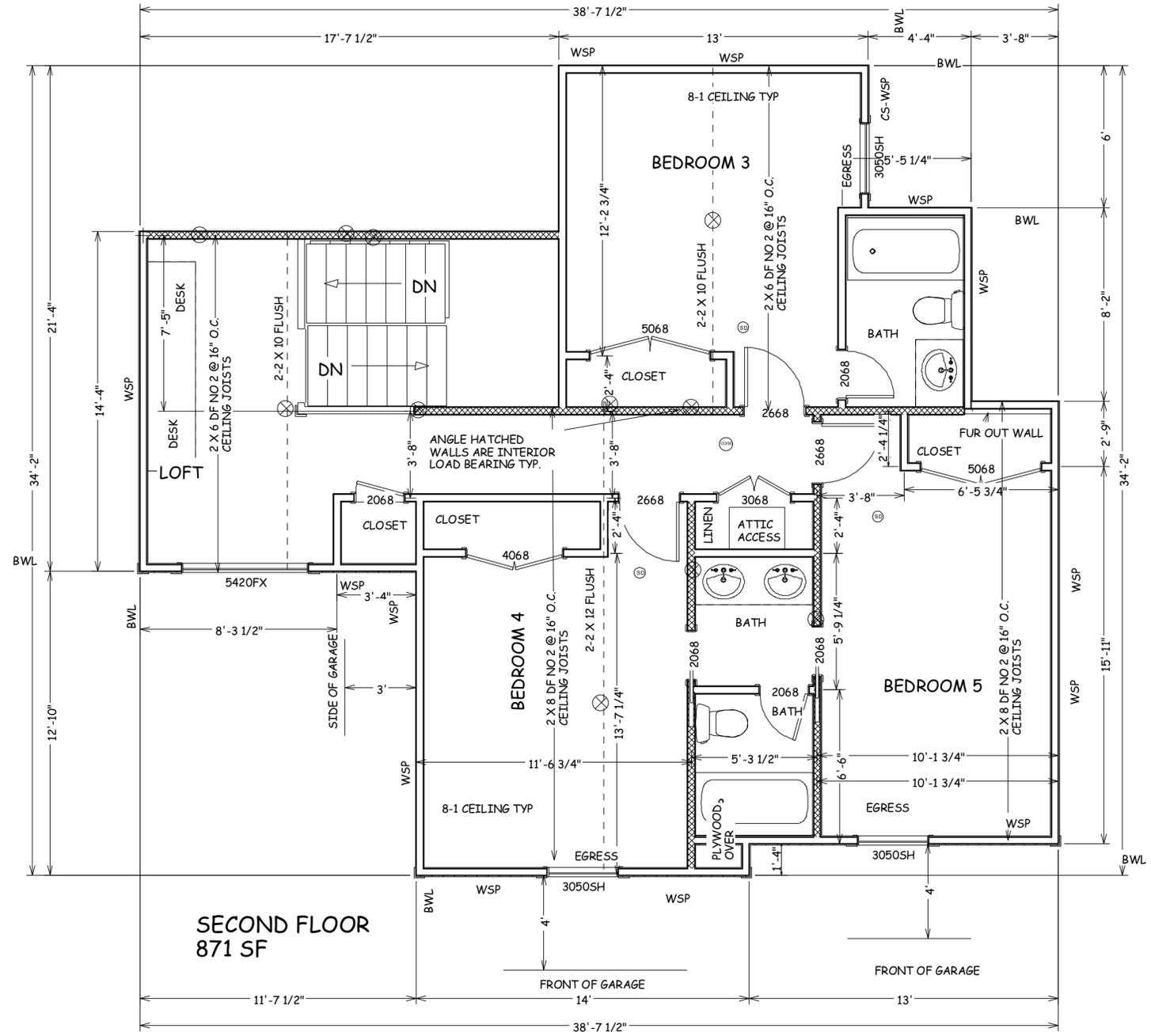
RAFTERS MAX. SPAN 14-4 BETWEEN SUPPORTS



PURLIN PLAN
SECOND FLOOR
1/8" = 1-0



PURLIN PLAN
MAIN FLOOR
1/8" = 1-0



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TABLE R602.10.3(1) BRACING REQUIREMENTS BASED ON WIND SPEED

| Ultimate Design Wind Speed (mph) | Story Location | MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE* | | | | |
|----------------------------------|----------------|---|-----------|---|-----------------------------|-----------------------------|
| | | Method LIP ^b | Method GB | Methods DWB, WSP, SFB, PFB, PCP, HPS, BV-WSP, ABW, PFF, PFG, CS-SFB | Methods CS-WSP, CS-G, CS-PF | Methods CS-WSP, CS-G, 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 |

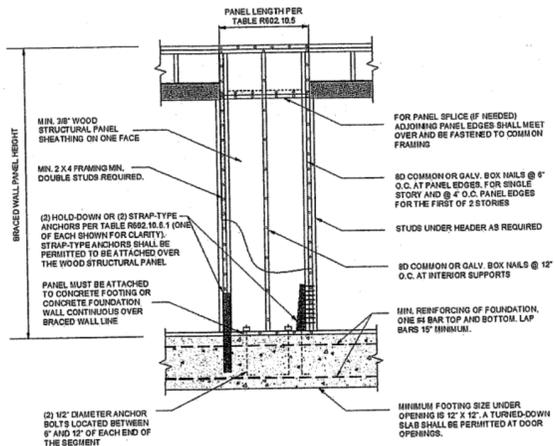


FIGURE R602.10.6.1 METHOD ABW—ALTERNATE BRACED WALL PANEL

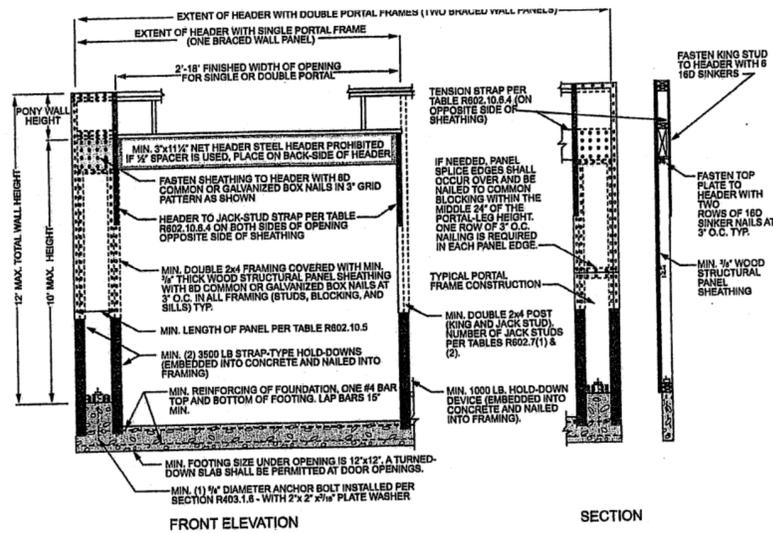


FIGURE R602.10.6.2 METHOD PFF—PORTAL FRAME WITH HOLD-DOWNS

TABLE R602.10.4 BRACING METHODS

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

TABLE R602.10.5 MINIMUM LENGTH OF BRACED WALL PANELS

| METHOD (See Table R602.10.4) | MINIMUM LENGTH* (inches) | | | | | CONTRIBUTING LENGTH (inches) |
|--|--|--------|---------|---------|---------|--|
| | 8 feet | 9 feet | 10 feet | 11 feet | 12 feet | |
| DWB, WSP, SFB, PFB, PCP, HPS, BV-WSP | 48 | 48 | 48 | 53 | 58 | Actual ^b |
| GB | 48 | 48 | 48 | 53 | 58 | Double sided = Actual Single sided = 0.5 x Actual |
| LIB | 55 | 62 | 69 | NP | NP | Actual ^b |
| ABW SDC A, B and C, ultimate design wind speed < 140 mph SDC D ₁ , D ₂ and D ₃ , ultimate design wind speed < 140 mph | 28 | 32 | 34 | 38 | 42 | 48 |
| | 32 | 32 | 34 | NP | NP | |
| | 32 | 32 | 34 | NP | NP | |
| | 32 | 32 | 34 | NP | NP | |
| | 32 | 32 | 34 | NP | NP | |
| | 32 | 32 | 34 | NP | NP | |
| | 32 | 32 | 34 | NP | NP | |
| | 32 | 32 | 34 | NP | NP | |
| | 32 | 32 | 34 | NP | NP | |
| | 32 | 32 | 34 | NP | NP | |
| | 32 | 32 | 34 | NP | NP | |
| | 32 | 32 | 34 | NP | NP | |
| | 32 | 32 | 34 | NP | NP | |
| | 32 | 32 | 34 | NP | NP | |
| CS-G | 24 | 27 | 30 | 33 | 36 | Actual ^b |
| CS-WSP, CS-SFB | ≤ 64 | 24 | 27 | 30 | 33 | Actual ^b |
| | 68 | 26 | 27 | 30 | 33 | |
| | 72 | 27 | 27 | 30 | 33 | |
| | 76 | 30 | 29 | 30 | 33 | |
| | 80 | 32 | 30 | 30 | 33 | |
| | 84 | 35 | 32 | 32 | 33 | |
| | 88 | 38 | 35 | 33 | 33 | |
| | 92 | 43 | 37 | 35 | 35 | |
| | 96 | 48 | 41 | 38 | 36 | |
| | 100 | — | 44 | 40 | 38 | |
| | 104 | — | 49 | 43 | 40 | |
| | 108 | — | 54 | 46 | 43 | |
| | 112 | — | — | 50 | 45 | |
| | 116 | — | — | 55 | 48 | |
| 120 | — | — | 60 | 52 | | |
| 124 | — | — | — | 56 | | |
| 128 | — | — | — | 61 | | |
| 132 | — | — | — | 66 | | |
| 136 | — | — | — | 62 | | |
| 140 | — | — | — | 66 | | |
| 144 | — | — | — | 72 | | |
| METHOD (See Table R602.10.4) | Portal header height | | | | | 48 |
| | 8 feet | 9 feet | 10 feet | 11 feet | 12 feet | |
| PFFH | Supporting roof only | 16 | 16 | Note c | Note c | 48 |
| | Supporting one story and roof | 24 | 24 | Note d | Note d | |
| PFG | SDC A, B and C | 24 | 27 | Note d | Note d | 1.5 x Actual ^b |
| | SDC D ₁ , D ₂ and D ₃ | 16 | 18 | Note e | Note e | |
| CS-PF | SDC A, B and C | 16 | 18 | Note e | Note e | 1.5 x Actual ^b |
| | SDC D ₁ , D ₂ and D ₃ | 16 | 18 | 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 PFFH 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.

TABLE R602.10.4—continued BRACING METHODS

| METHODS, MATERIAL | MINIMUM THICKNESS | FIGURE | CONNECTION CRITERIA* | |
|-------------------------------------|--|---|---|--|
| | | | Fasteners | Spacing |
| Intermittent Bracing Methods | | | | |
| PFB Portal frame with hold-downs | 3/4" | | See Section R602.10.6.2 | See Section R602.10.6.2 |
| PFG Portal frame at garage | 3/4" | | See Section R602.10.6.3 | See Section R602.10.6.3 |
| Continuous Sheathing Methods | CS-WSP Continuously sheathed wood structural panel | 3/4" | Exterior sheathing per Table R602.3(3) Interior sheathing per Table R602.3(1) or R602.3(2) | 6" edges 12" field Varies by fastener |
| | CS-G ^a Continuously sheathed wood structural panel adjacent to garage openings | 3/4" | See Method CS-WSP | See Method CS-WSP |
| | CS-PF Continuously sheathed portal frame | 3/4" | See Section R602.10.6.4 | See Section R602.10.6.4 |
| | CS-SFB ^b Continuously sheathed structural fiberboard | 1/2" or 3/4" for maximum 16" stud spacing | | 1 1/2" long x 0.12" dia. (for 1/2" thick sheathing) 1 3/4" long x 0.12" dia. (for 3/4" thick sheathing) galvanized roofing nails |

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/m², 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, D₁, D₂, and D₃.
 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 D₁, D₂, and D₃, 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 D₁, D₂, and D₃.
 e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D₁ through D₃ only.

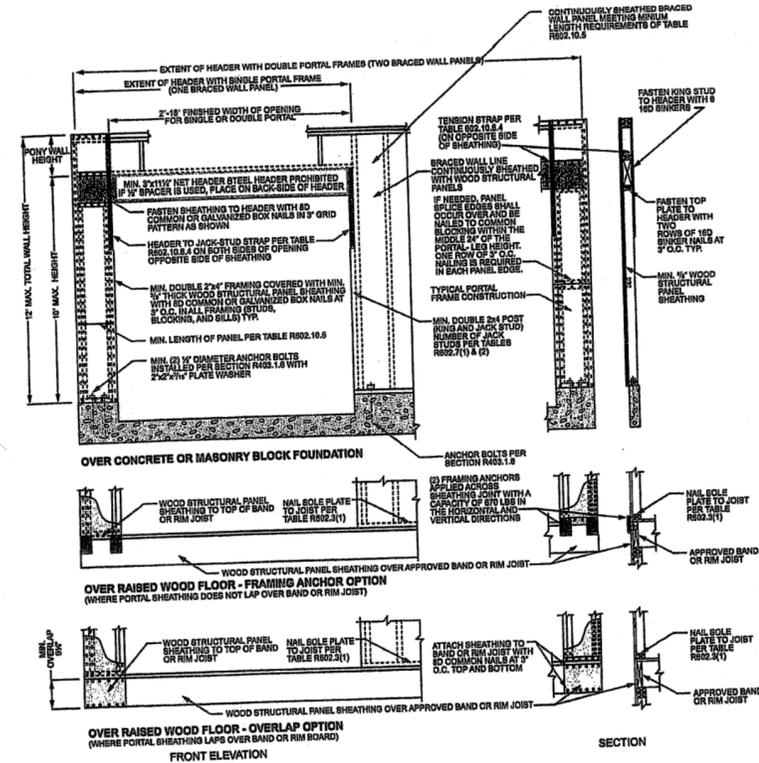


FIGURE R602.10.6.4 METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION



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

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