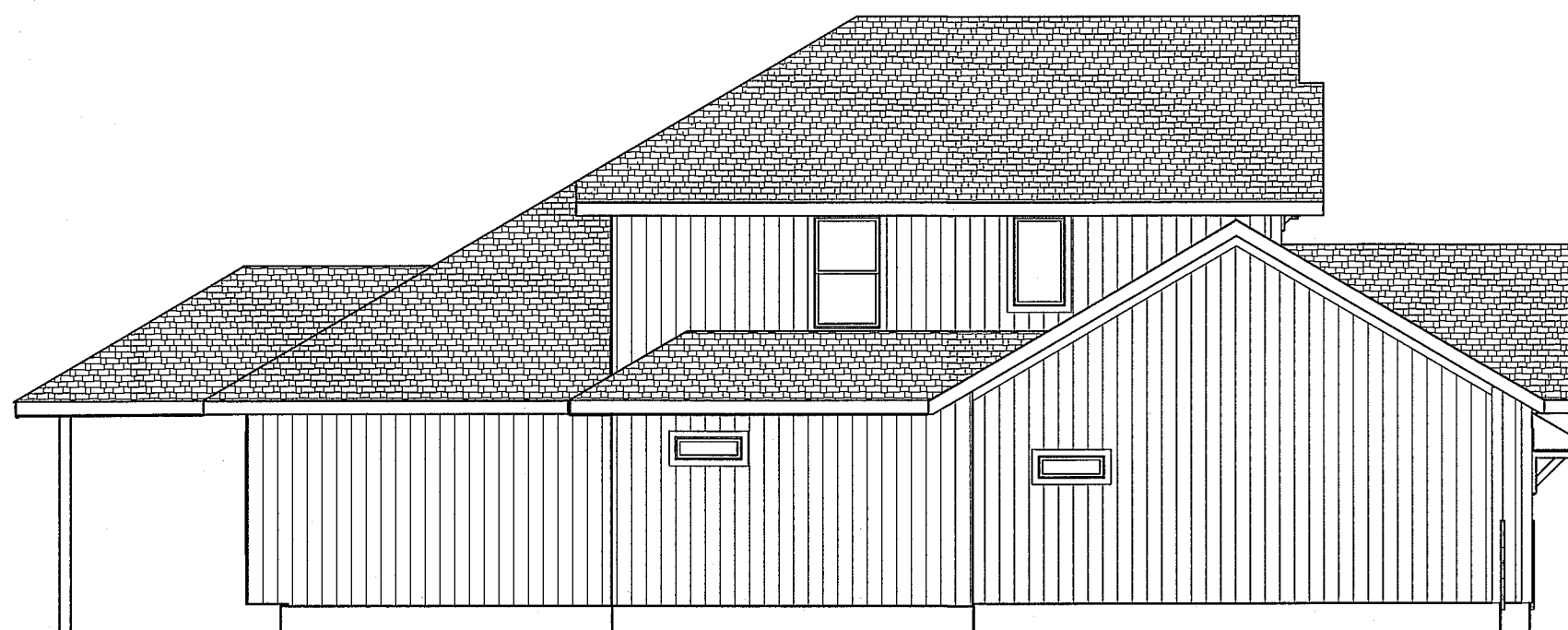
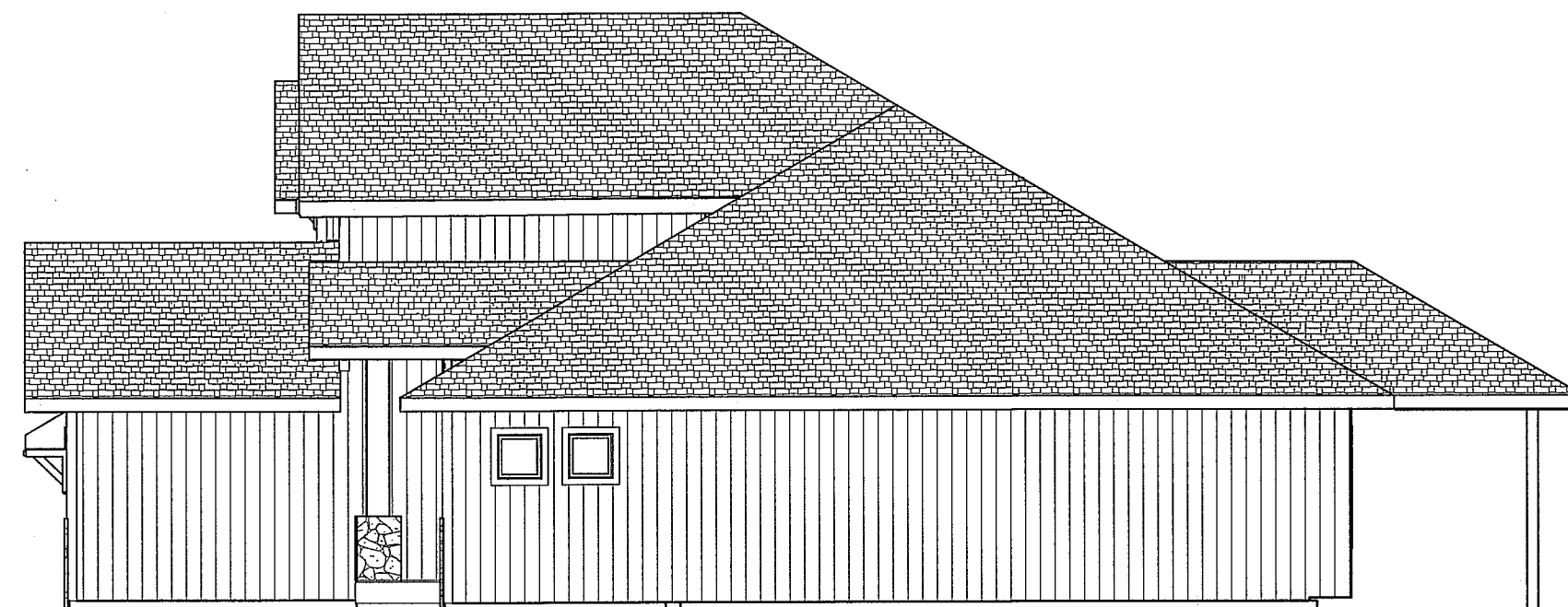




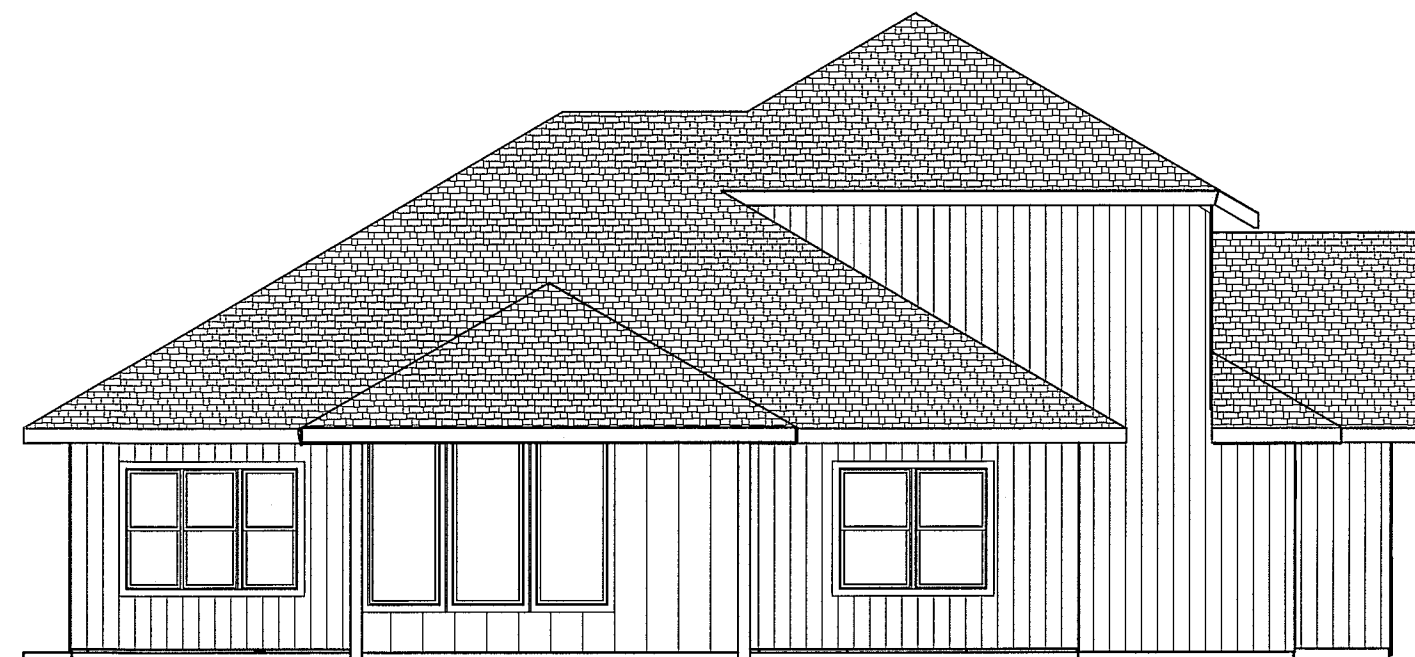
FRONT EL.  
STUCCO & STONE



LEFT EL.  
1/8 = 1-0



RIGHT EL.  
1/8 = 1-0



REAR EL.  
1/8 = 1-0

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

NICK ZVACEK HOMES  
ANDERSON II  
LOT 109 MONTICELLO  
4705 NE FREEHOLD DR  
LEE SUMMIT MO

SCALE  
1/4" = 1-0

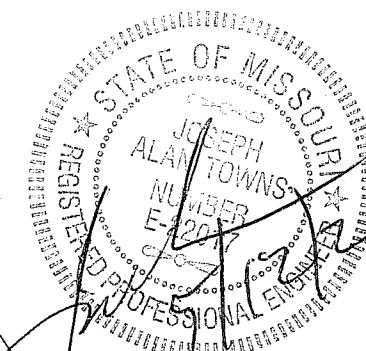
DATE  
5-13-21

PLAN NO.  
3531

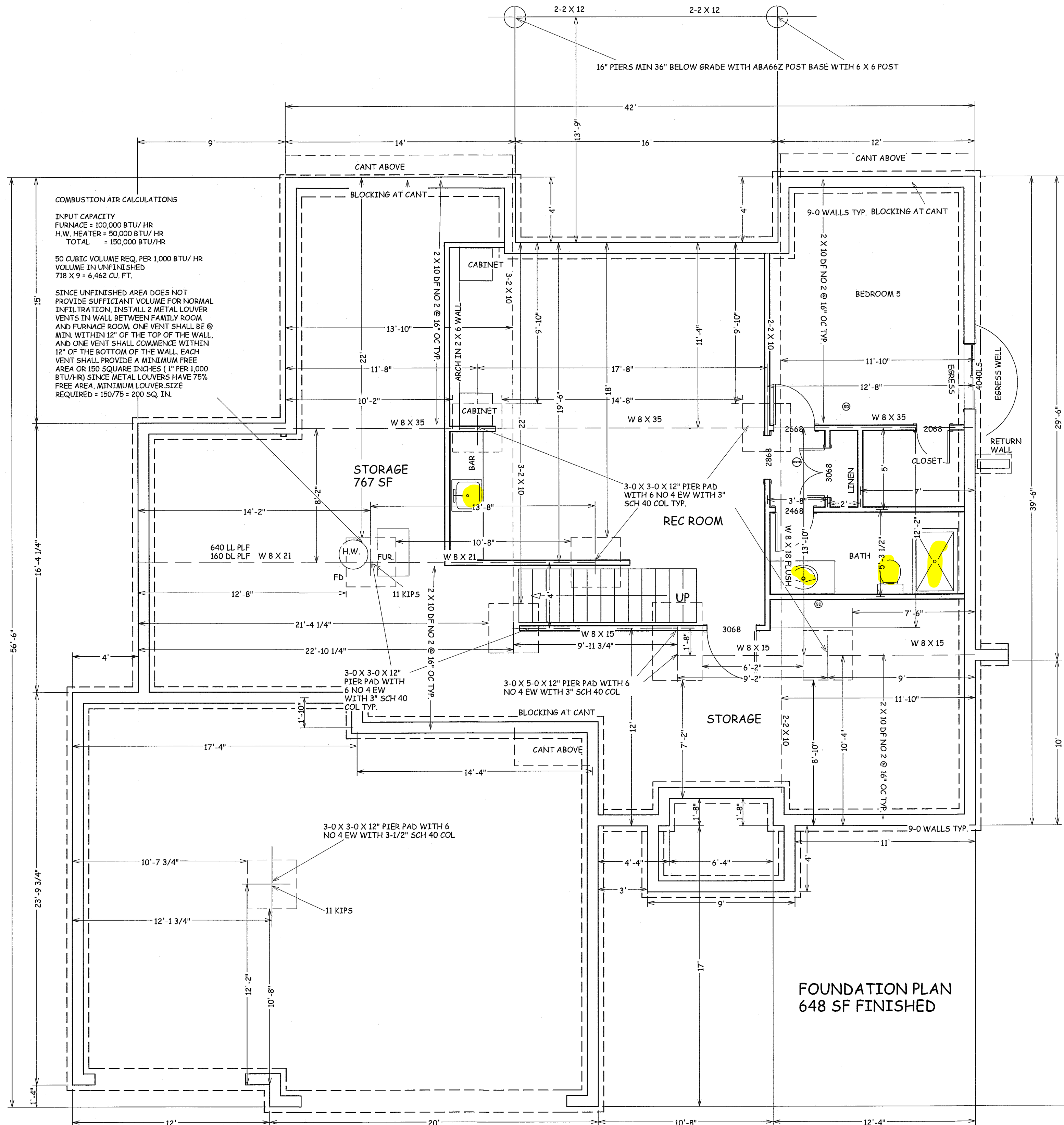
SHEET NO.

1 OF 6

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
05/26/2021



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



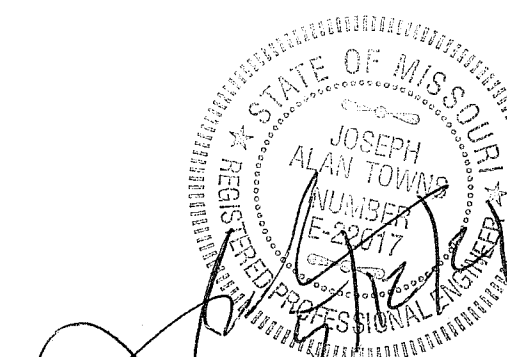
COMBUSTION AIR CALCULATIONS

INPUT CAPACITY  
FURNACE = 100,000 BTU/HR  
H.W. HEATER = 50,000 BTU/HR  
TOTAL = 150,000 BTU/HR

50 CUBIC VOLUME REQ. PER 1,000 BTU/HR  
VOLUME IN UNFINISHED  
718 X 9 = 6,462 CU. FT.

SINCE UNFINISHED AREA DOES NOT  
PROVIDE SUFFICIENT VOLUME FOR NORMAL  
INFILTRATION, INSTALL 2 METAL LOUVER  
VENTS IN WALL BETWEEN FAMILY ROOM  
AND FURNACE ROOM. ONE VENT SHALL BE @  
MIN. WITHIN 12" OF THE TOP OF THE WALL,  
AND ONE VENT SHALL COMMENCE WITHIN  
12" OF THE BOTTOM OF THE WALL. EACH  
VENT SHALL PROVIDE A MINIMUM FREE  
AREA OR 150 SQUARE INCHES (1" PER 1,000  
BTU/HR) SINCE METAL LOUVERS HAVE 75%  
FREE AREA, MINIMUM LOUVER SIZE  
REQUIRED = 150/75 = 200 SQ. IN.

FOUNDATION PLAN  
648 SF FINISHED



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

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

NICK ZVACEK HOMES  
ANDERSON II  
LOT 109 MONTICELLO  
4705 NE FREEHOLD DR  
LEE SUMMIT MO

SCALE  
1/4" = 1-0

DATE  
5-13-21

PLAN NO.  
3531

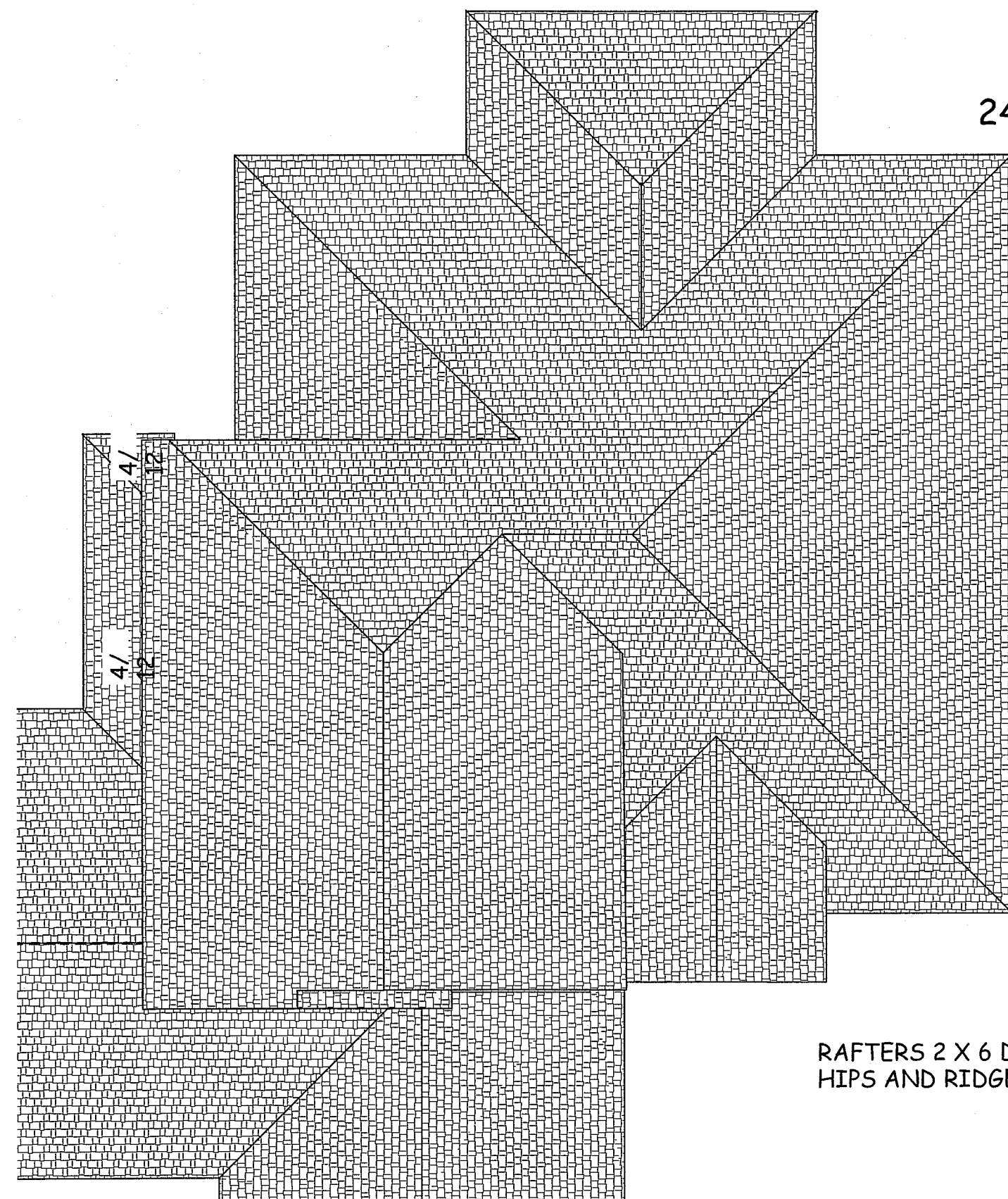
SHEET NO.

2 OF 6

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

05/26/2021

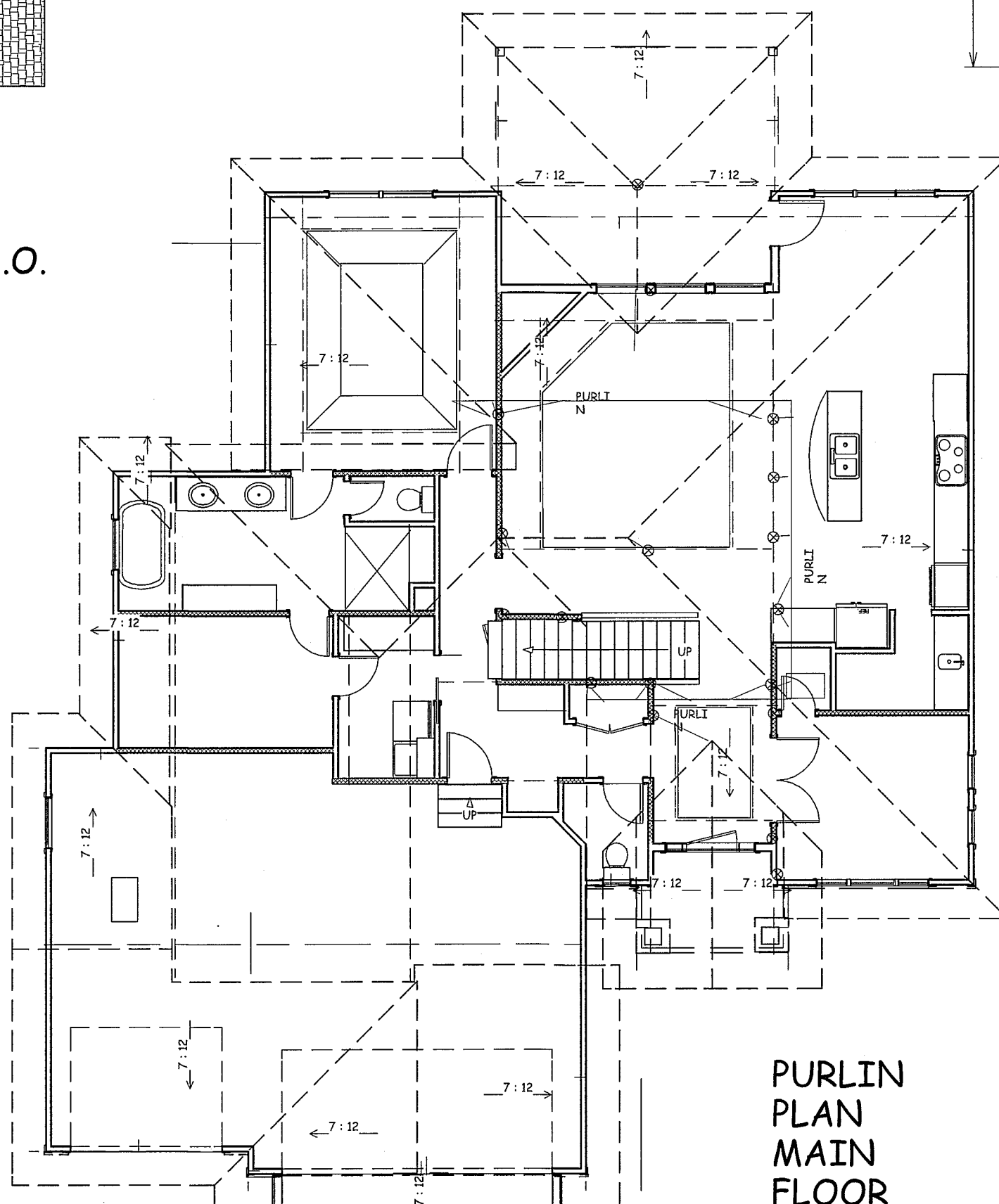




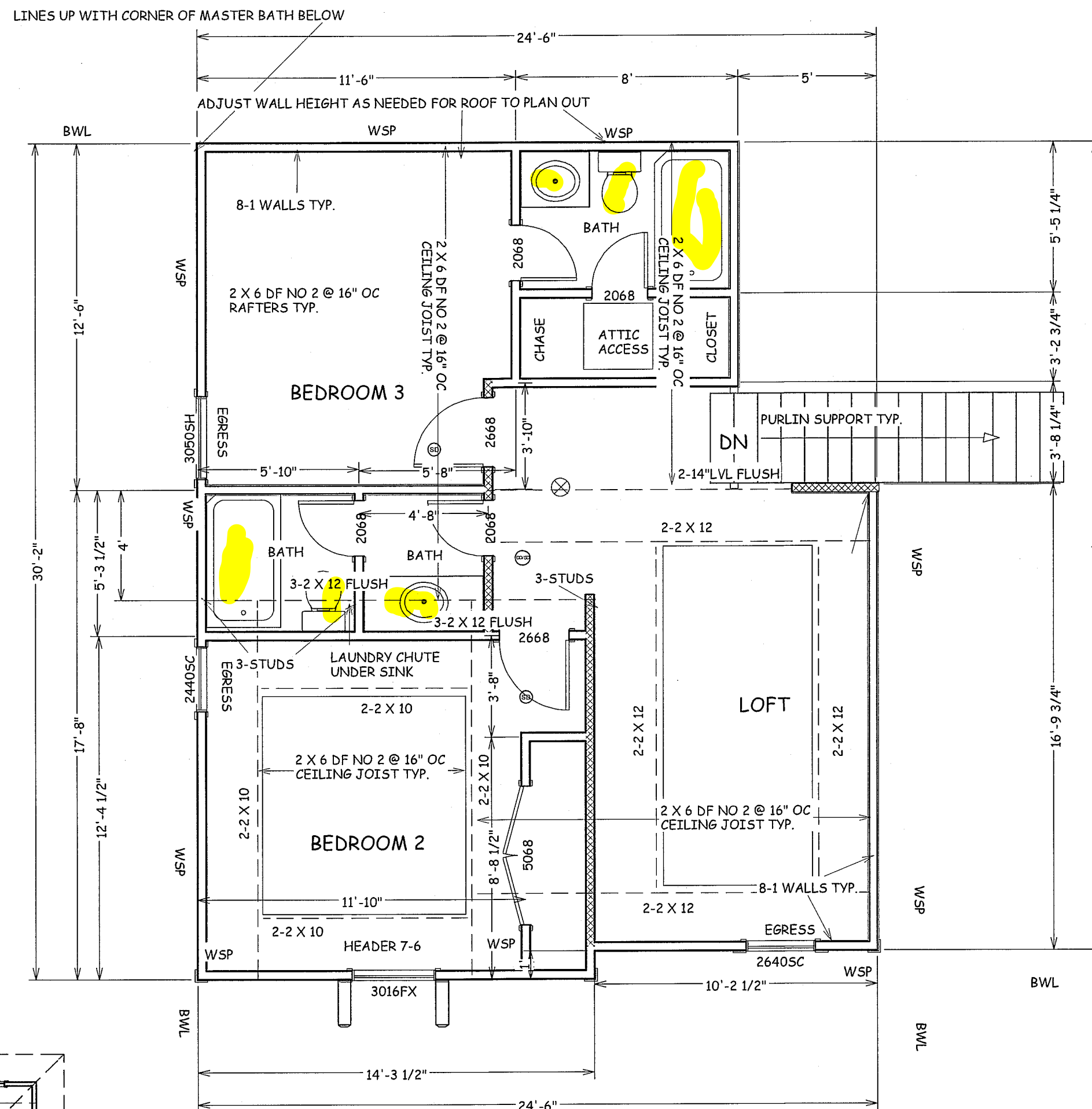
ROOF PLAN  
1/8" = 1'-0"  
ROOF PITCHES 7/12 U.N.O.

24" SOFFITS TYP.

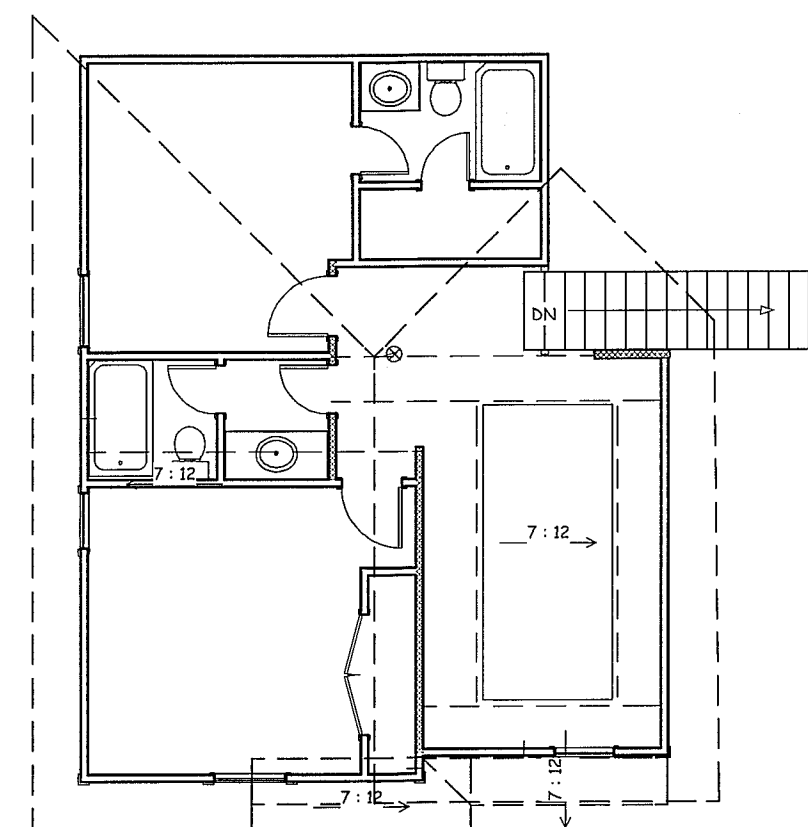
RAFTERS 2 X 6 DF NO 2 @ 16" OC TYP.  
HIPS AND RIDGES 2 X 8 DF NO 2 TYP.



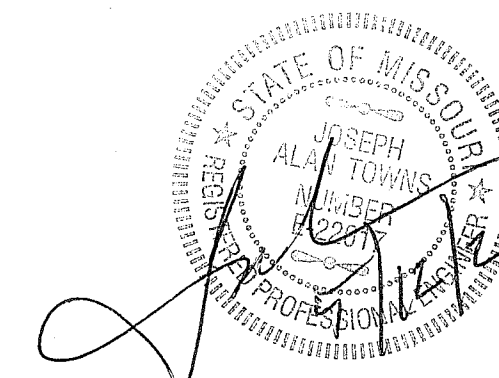
PURLIN  
PLAN  
MAIN  
FLOOR  
1/8" = 1'-0"



SECOND FLOOR  
667 SF



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



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

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

NICK ZVACEK HOMES  
ANDERSON II  
LOT 109 MONTICELLO  
4705 NE FREEHOLD DR  
LEE SUMMIT MO

SCALE  
1/4" = 1'-0"

DATE  
5-13-21

PLAN NO.  
3531

SHEET NO.

4 OF 6  
RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

05/26/2021

ENERGY CONSERVATION CODE  
THE FOLLOWING VALUES ARE NEEDED.

R-15 IN WALLS

R-49 IN ATTICS

R-38 IN VAULTS

R-30 REDUCTION FOR VAULTS IS ONLY FOR 500 SF  
PF AREA

R-19 IN FLOORS OVER UNCONDITIONED SPACES

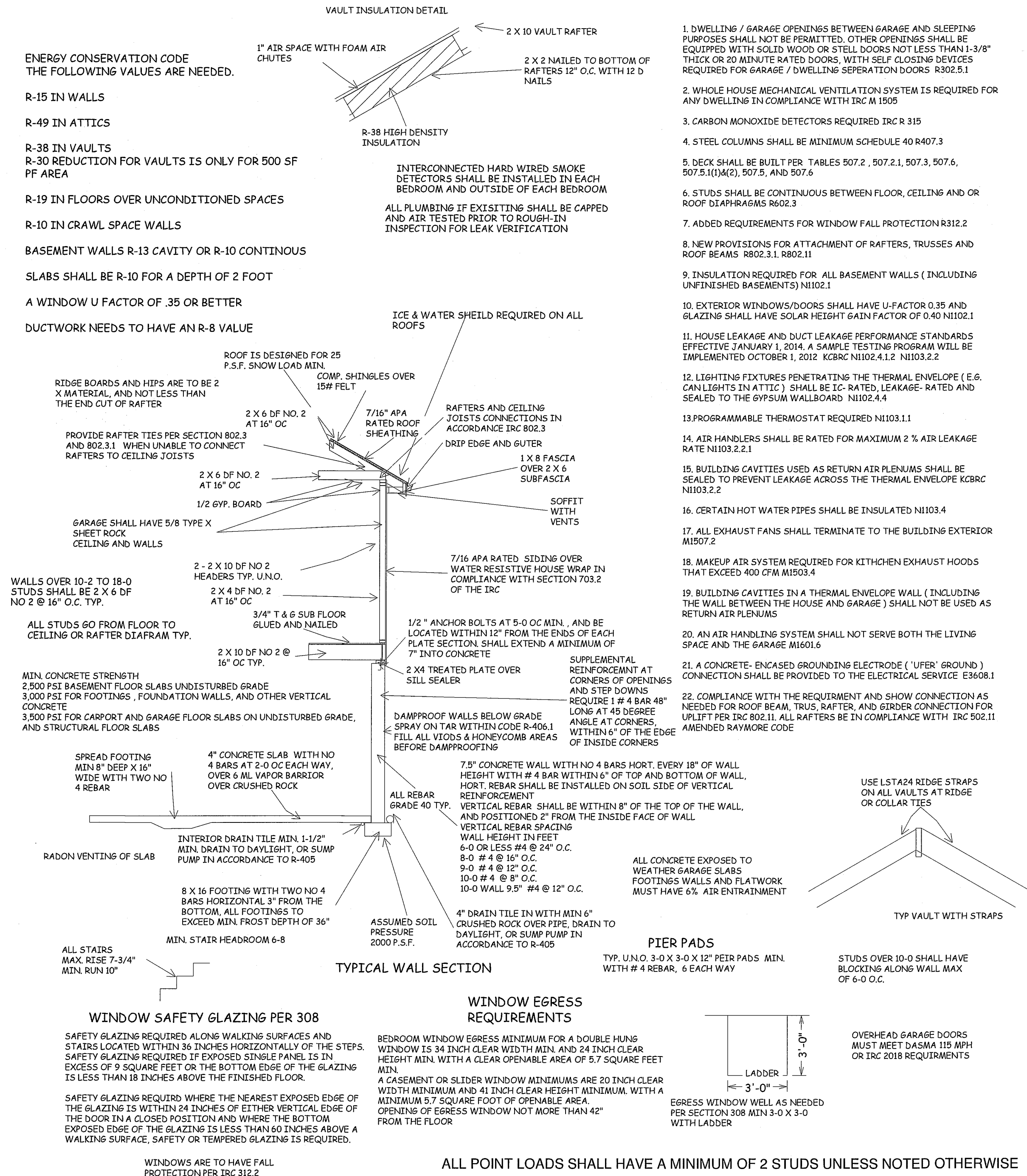
R-10 IN CRAWL SPACE WALLS

BASEMENT WALLS R-13 CAVITY OR R-10 CONTINUOUS

SLABS SHALL BE R-10 FOR A DEPTH OF 2 FOOT

A WINDOW U FACTOR OF .35 OR BETTER

DUCTWORK NEEDS TO HAVE AN R-8 VALUE



| TABLE R602.10.2(1)<br>BRACING REQUIREMENTS BASED ON WIND SPEED                                |                |                                                                                            |                         |           |                                                                                  |                                   |
|-----------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------|-------------------------|-----------|----------------------------------------------------------------------------------|-----------------------------------|
| EXPOSURE CATEGORY B<br>35-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* |                         |           |                                                                                  |                                   |
| Ultimate<br>Design Wind<br>Speed<br>(mph)                                                     | Story Location | Braced Wall Line<br>Spacing <sup>a</sup><br>(feet)                                         | Method L1B <sup>b</sup> | Method GB | Methods<br>DWB, WSP, SFB,<br>PFB, PCP, ABW,<br>BV-WSP, ABW, PFH,<br>CS-G, CS-SFB | Methods<br>CS-WSP, CS-G,<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                              |

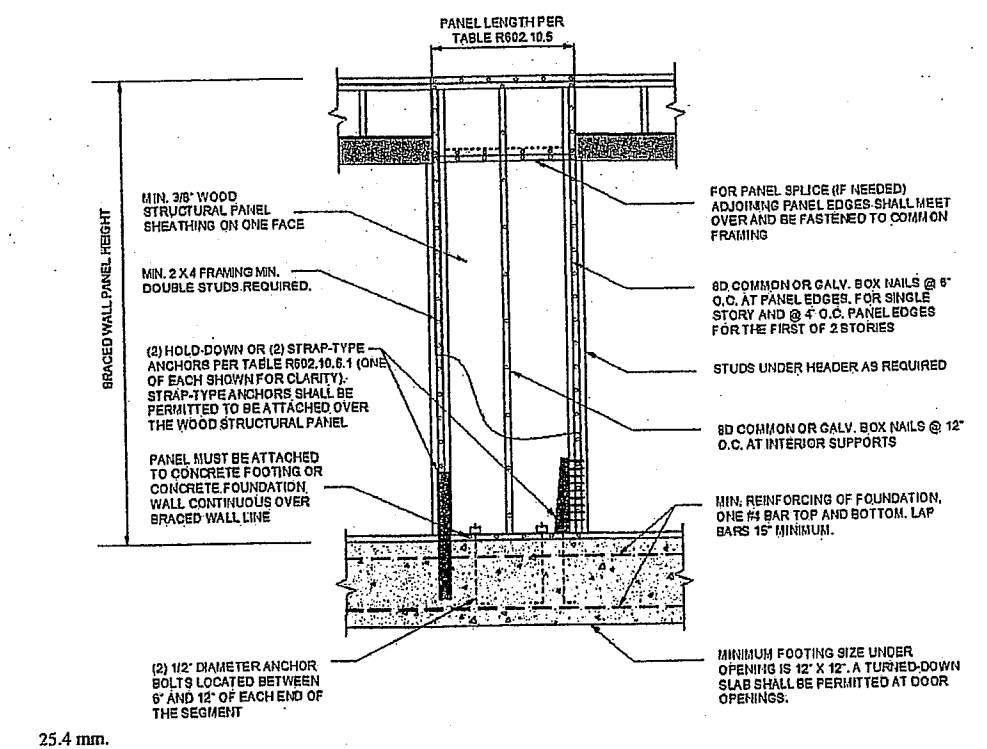


FIGURE R602.10.6.1  
METHOD ABW—ALTERNATE BRACED WALL PANEL

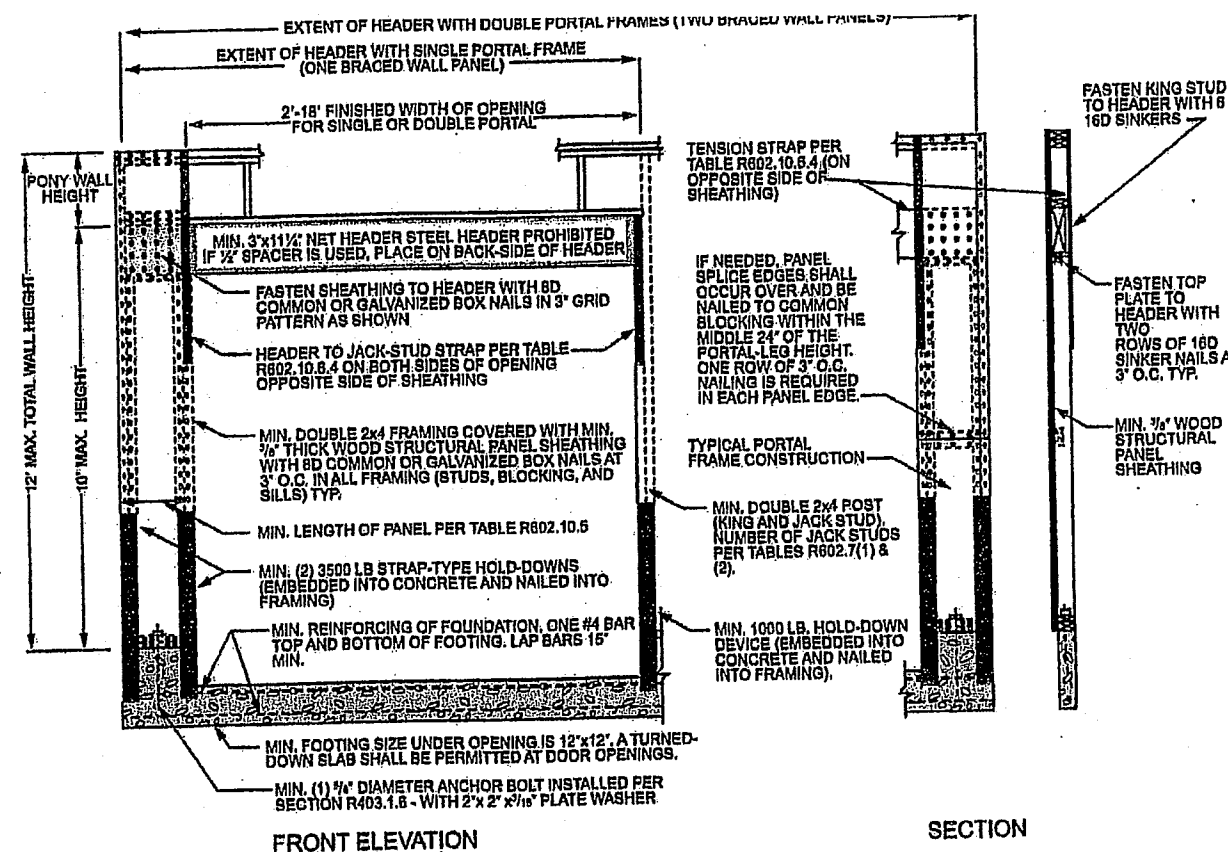


FIGURE R602.10.6.2  
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

| TABLE R602.10.4<br>BRACING METHODS                                                                   |                                                                                        |                        |                                                                                                                                        |                                                                                        |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| METHODS, MATERIAL                                                                                    | MINIMUM THICKNESS                                                                      | FIGURE                 | CONNECTION CRITERIA*                                                                                                                   |                                                                                        |
| L1B<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)                                                      | 3/4\"                                                                                  |                        | Exterior sheathing per Table R602.3(3)<br>Interior sheathing per Table R602.3(1) or R602.3(2)                                          | Varies by fastener                                                                     |
| BV-WSP <sup>b</sup><br>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\" dia.) nails                                                                                               | 4\" at panel edges<br>12\" at intermediate supports 4\" at braced wall panel end posts |
| SFB<br>Structural fiberglass 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                                                                    |