



BUILDER/CONTRACTOR IS RESPONSIBLE TO CHECK ALL DIMENSIONS FOR ACCURACY BETWEEN FLOORS, FOUNDATION, AND ELEVATIONS. ALSO VERIFY ALL BEAM, HEADERS, PAD LOCATIONS, AND COLUMN SIZES.

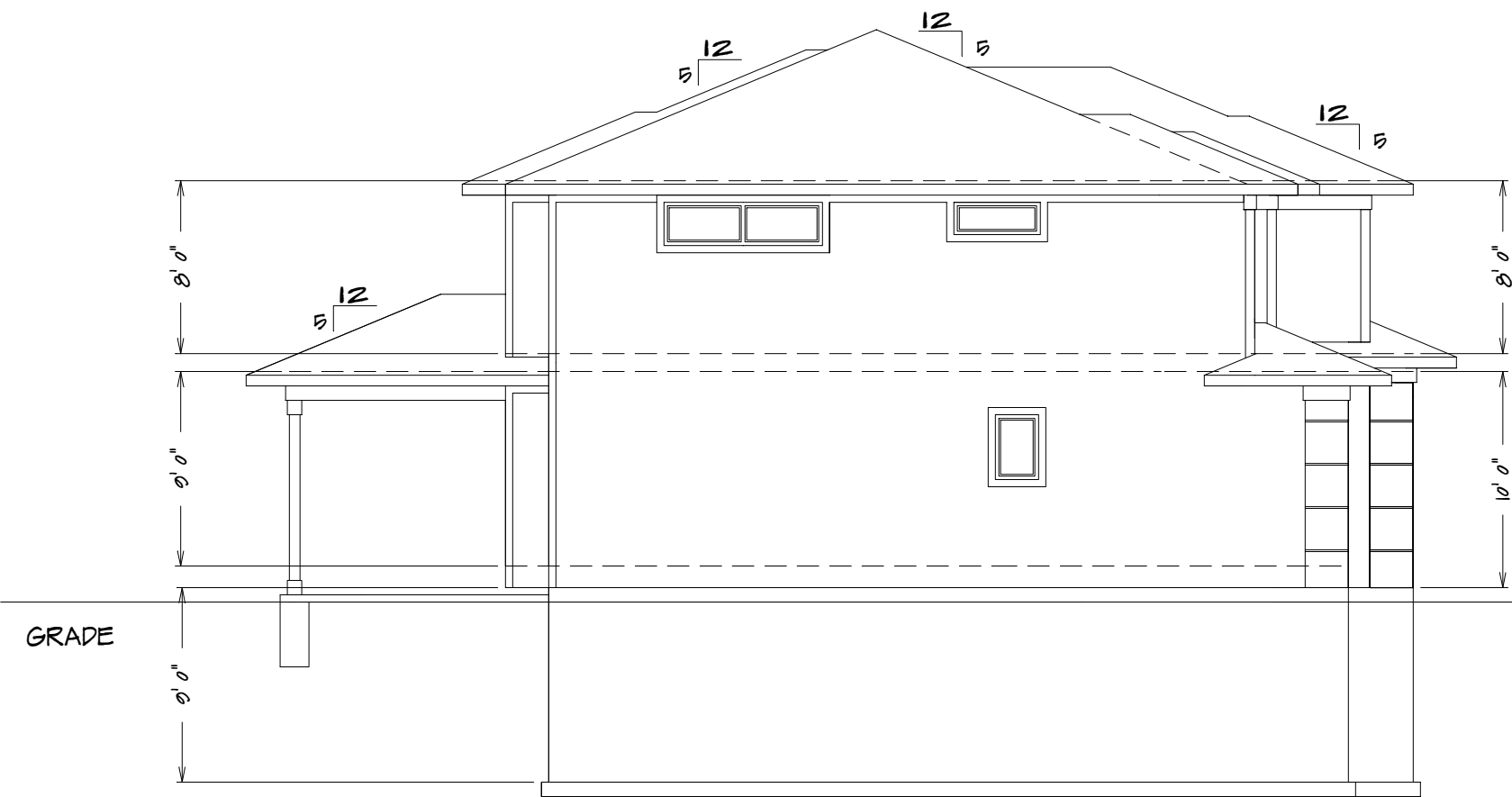
ALL NOTES, SECTIONS, AND DRAWINGS ARE IN ACCORDANCE WITH THE 2018 IRC

FRONT ELEVATION

1/4" = 1'0"

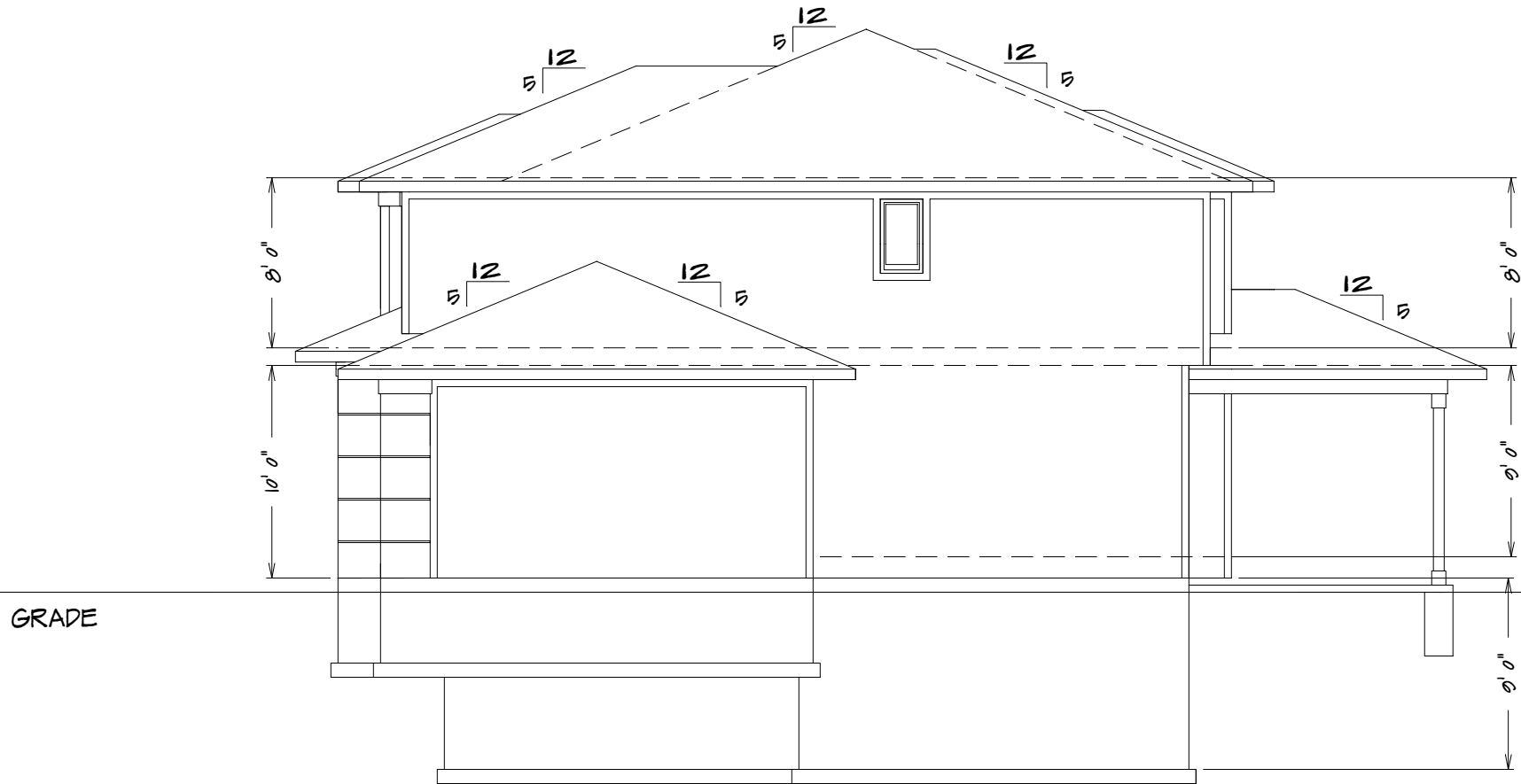
NOTE:  
ACTUAL ELEVATIONS MAY VARY FROM ARCHITECTURAL DRAWINGS, DUE TO TERRAIN/BACKMILL PROCESS. FRONT ELEVATION IS ARCHITECTURAL DRAWING AND MAY VARY DUE TO MATERIALS AVAILABILITY.

606 NE LONE HILL DRIVE  
LEES SUMMIT MO  
LOT 16 ESTATES OF CHAPEL RIDGE



LEFT ELEVATION

1/8" = 1'0"



RIGHT ELEVATION

1/8" = 1'0"



REAR ELEVATION

1/8" = 1'0"

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
09/21/2020



SQUARE FOOTAGE

LIVING AREA  
FIRST FLOOR = 1078  
SECOND FLOOR = 1468  
OPTIONAL BASEMENT = 678  
COVERED PATIO = 144  
UNFINISHED AREA  
STORAGE BASEMENT = 208  
GARAGE = 722

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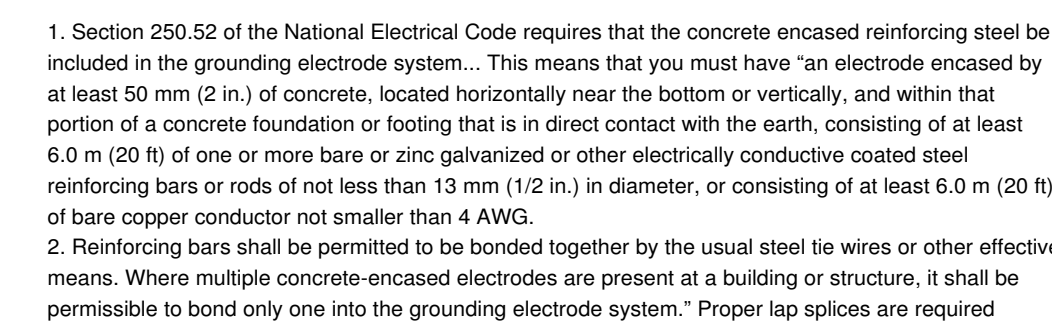
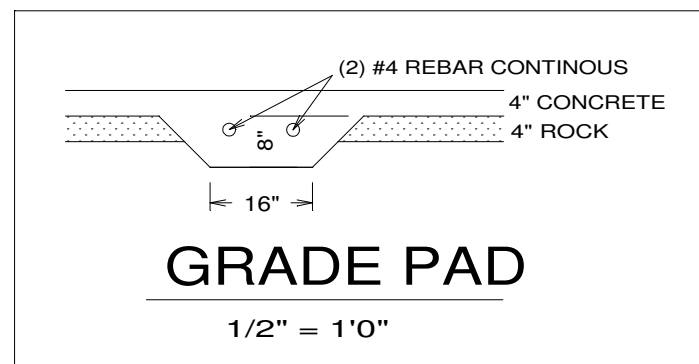
HOME BUYER:  
BUILDER:  
SUB-DIVISION:

PHONE:  
PHONE:  
LOT NO.

DATE DRAWN:  
DATE REVISED:  
DESIGNER:

PLAN NO.  
KH-006  
FILE NAME:  
006 ELEV

SHEET NO.  
1  
APPROX. SQ.FT.



STEEL COLUMNS TO BE  
3" DIAMETER SCHEDULE 40 PIPE MANUFACTURED  
IN ACCORDANCE WITH ASTM A53 GRADE B OR  
APPROVED EQUIVALENT UNLESS NOTED

Note...Bridging. Joists exceeding a nominal 2 inches by 12 inches shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch strip nailed across the bottom of joists perpendicular to joists at intervals not exceeding 8 feet. (R502.7.1)

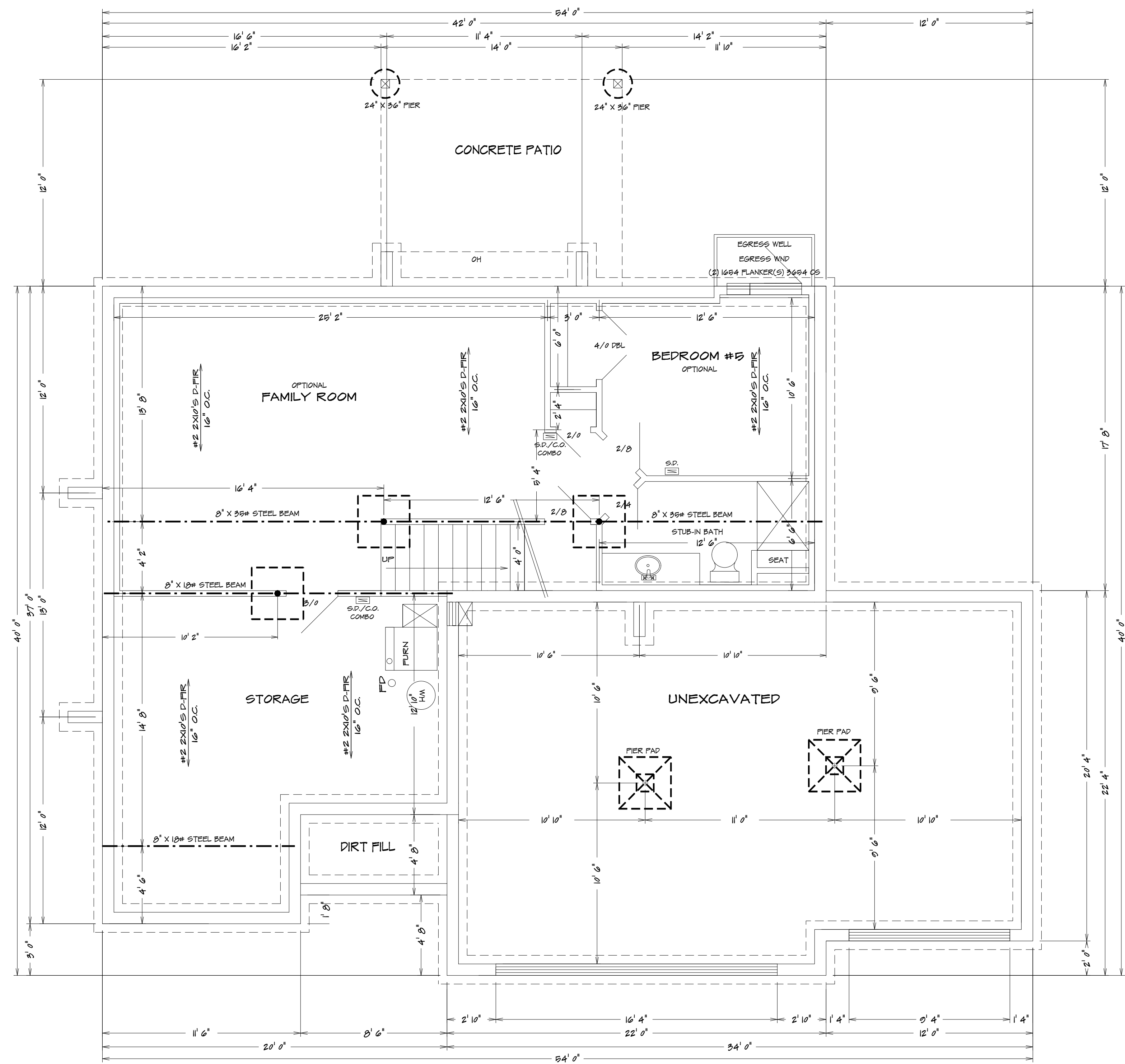
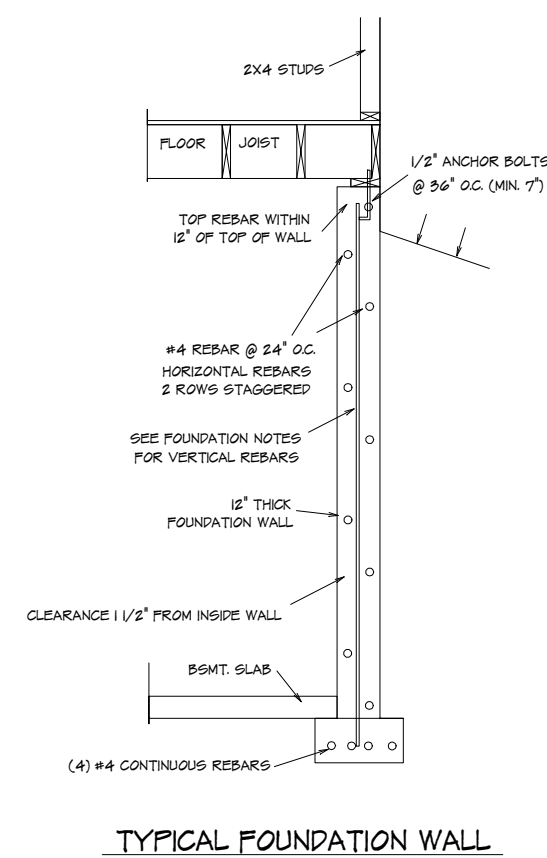
SEE ELEVATION FOR  
WALL HEIGHTS

NOTE... ELECTRICAL SERVICE  
TO BE 200 AMP.

NOTE... DOUBLE JOIST UNDER  
ALL PARALLEL WALLS  
ABOVE UNLESS NOTED

S.D.  
 = SMOKE DETECTOR

42" X 42" X 12" CONCRETE PADS WITH (6)  
#4 REBARS EACH WAY (UNLESS NOTED)



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## BASEMENT PLAN

$$1/4'' = 1'0''$$

**RELEASE FOR  
CONSTRUCTION  
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DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
09/21/2020**



|               |         |               |                         |                |
|---------------|---------|---------------|-------------------------|----------------|
| HOME BUYER:   | PHONE:  | DATE DRAWN:   | PLAN NO.                | SHEET NO.      |
| BUILDER:      | PHONE:  | DATE REVISED: | RH-6106                 | 2              |
| SUB-DIVISION: | LOT NO. | DESIGNER:     | FILE NAME:<br>6106 BSWT | APPROX. SQ.FT. |

BUYER/OWNER/CONTRACTOR IS RESPONSIBLE TO CHECK ALL PERMITS FOR ACCURACY OF DIMENSIONS, FOUNDATION, ELEVATIONS, ALSO VERIFY ALL BEAM, HEADERS, JOISTS AND LOCATIONS. BUYER/OWNER/CONTRACTOR TO CHECK FOR COMPLIANCE WITH CONTRACTS, CITY AND NATIONAL CODES. BUYER/OWNER/CONTRACTOR ACCEPTS ALL RESPONSIBILITY FOR LOT ACCESSION, SET BACKS, AND FLOOD PLAINS. BUYER/OWNER/CONTRACTOR AND HOME OWNER ACCEPTS RESPONSIBILITY FOR ANY AND ALL NEIGHBORHOOD IMPROVEMENTS OR RESURFACINGS TO OTHER COMPLETION PLANS. BUYER/OWNER/CONTRACTOR ACCEPTS RESPONSIBILITY FOR ANY ON SITE CHANGES MAKE TO STRUCTURE.

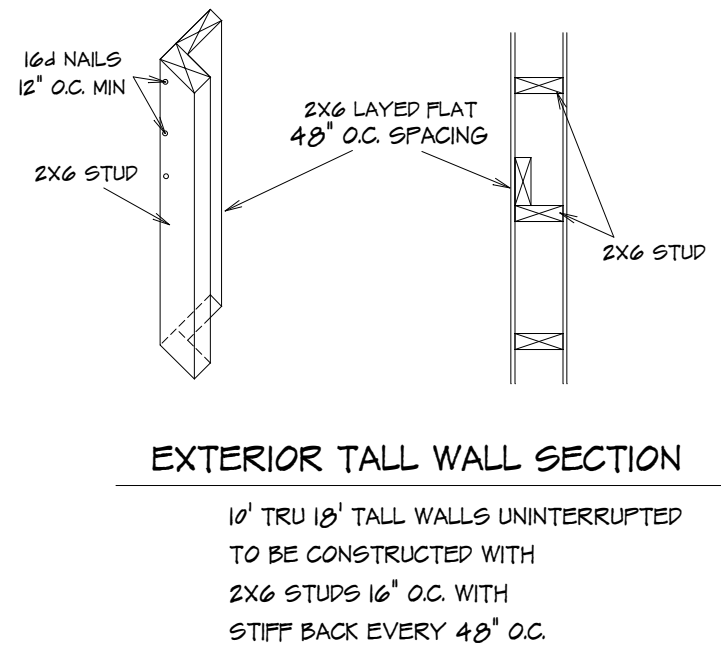


SEE ELEVATION FOR  
WALL HEIGHTS

NOTE... ELECTRICAL SERVICE  
TO BE 200 AMP.

NOTE... DOUBLE JOIST UNDER  
ALL PARALLEL WALLS  
ABOVE UNLESS NOTED

S.D.  
= SMOKE DETECTOR



#### GENERAL HEADER SPECIFICATIONS:

| REQUIRED AREAS NEEDING HEADERS:         | HEADER DESCRIPTIONS:                |
|---|-------------------------------------|
| WINDOWS/DOORS UP TO 38" R.O.            | (2) #2 D-FIR 2X10'S                 |
| WINDOWS/DOORS 38" UP TO 72" R.O.        | (2) #2 D-FIR 2X10'S W/1/2" GLUE PLY |
| WINDOWS/DOORS 72" UP TO 96" R.O.        | (2) 9 1/2" L.V.L.                   |
| 8'0" GARAGE DOORS W/CEILING & ROOF LOAD | (2) 9 1/2" L.V.L.                   |
| 9'0" GARAGE DOORS W/CEILING & ROOF LOAD | (2) 9 1/2" L.V.L.                   |
| 8'0" GARAGE DOORS W/SECOND FLOOR        | (2) 9 1/2" L.V.L.                   |
| 9'0" GARAGE DOORS W/SECOND FLOOR        | (2) 11 7/8" L.V.L.                  |
| 16'0" GARAGE DOOR W/NO SECOND FLOOR     | (2) 11 7/8" L.V.L.                  |
| 16'0" GARAGE DOORS W/SECOND FLOOR       | (2) 14" L.V.L.                      |

USE HEADERS FOR OPENINGS ABOVE UNLESS SPECIFIED OTHERWISE.

**R312.2.1 Window sills.**  
In dwelling units, where the opening of an operable window is located more than 72 inches (1828 mm) above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4-inch-diameter (102 mm) sphere where such openings are located within 24 inches (610 mm) of the finished floor.

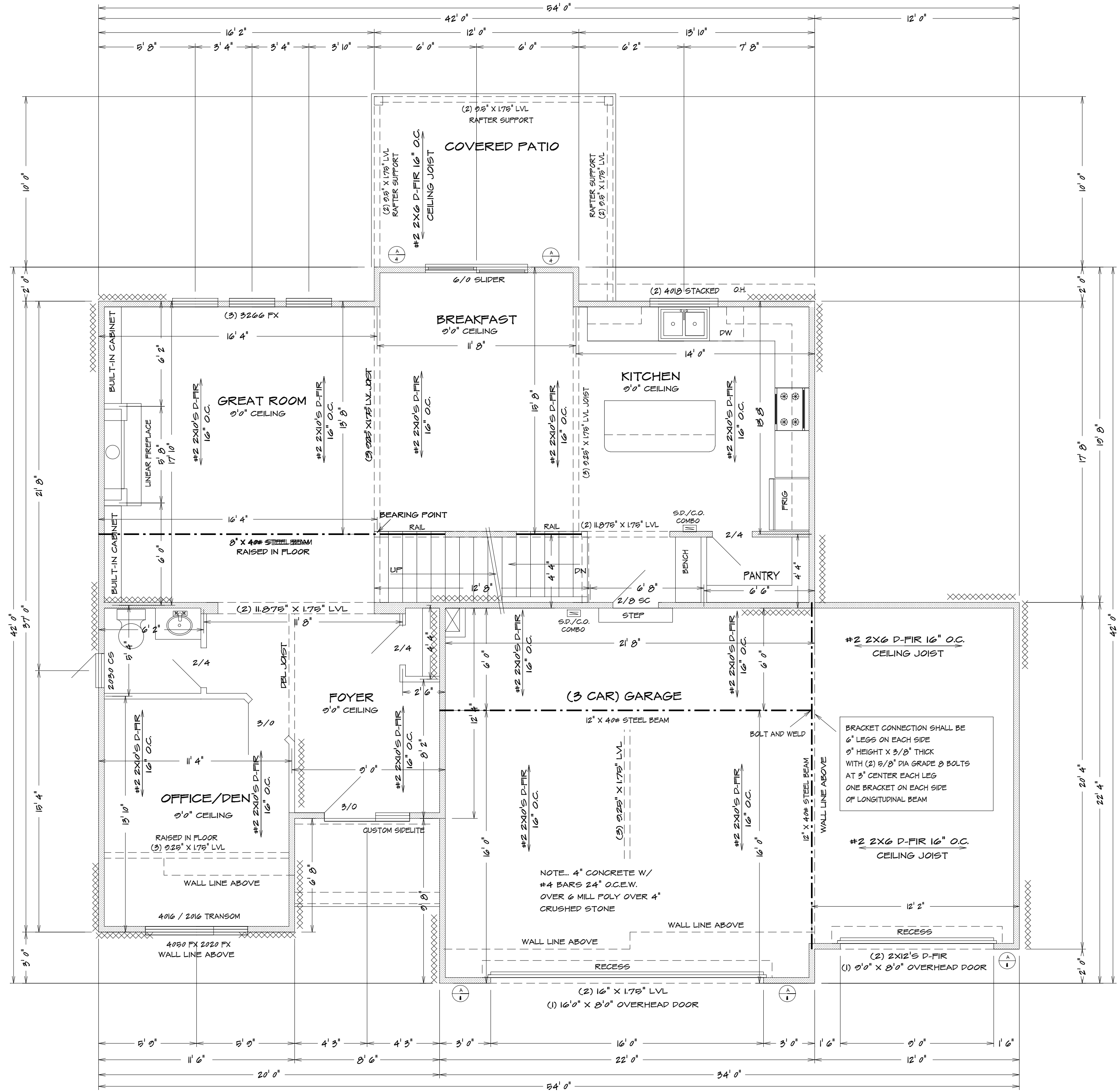
- Exceptions:
- Windows whose openings will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position.
  - Openings that are provided with window fall prevention devices that comply with ASTM F 2090.
  - Windows that are provided with window opening control devices that comply with Section R312.2.2.

#### R312.2.2 Window opening control devices.

Window opening control devices shall comply with ASTM F 2090. The window opening control device, after operation to release the control device allowing the window to fully open, shall not reduce the minimum net clear opening area of the window unit to less than the area required by Section R310.1.1.

Bathrooms, water closet compartments and other similar rooms shall be provided with aggregate glazing area in windows of not less than 3 square feet, one-half of which must be operable.

Exception:  
The glazed areas shall not be required where artificial light and a local exhaust system are provided.  
The minimum local exhaust rates shall be determined in accordance with Section M1507.  
Exhaust air from the space shall be exhausted directly to the outdoors.



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BEARING WALL

#### FIRST FLOOR PLAN

1/4" = 1'0"

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HOME BUYER:  
BUILDER:  
SUB-DIVISION:

PHONE:  
PHONE:  
LOT NO.:

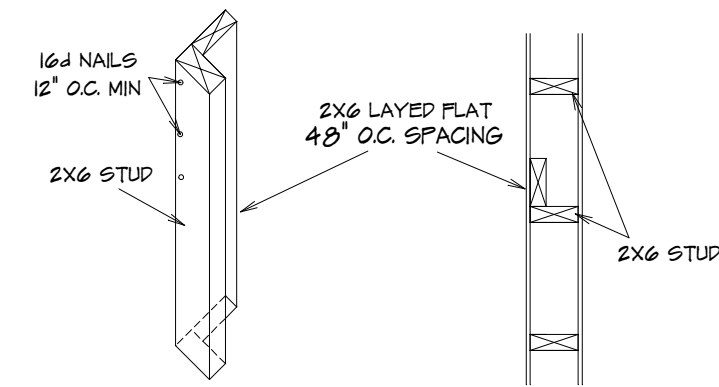
DATE DRAWN:  
DATE REVISED:  
DESIGNER:

PLAN NO.  
KH-6106  
FILE NAME:  
6106.FLR

SHEET NO.  
3  
APPROX. SQ.FT.



S.D.  
 = SMOKE DETECTOR

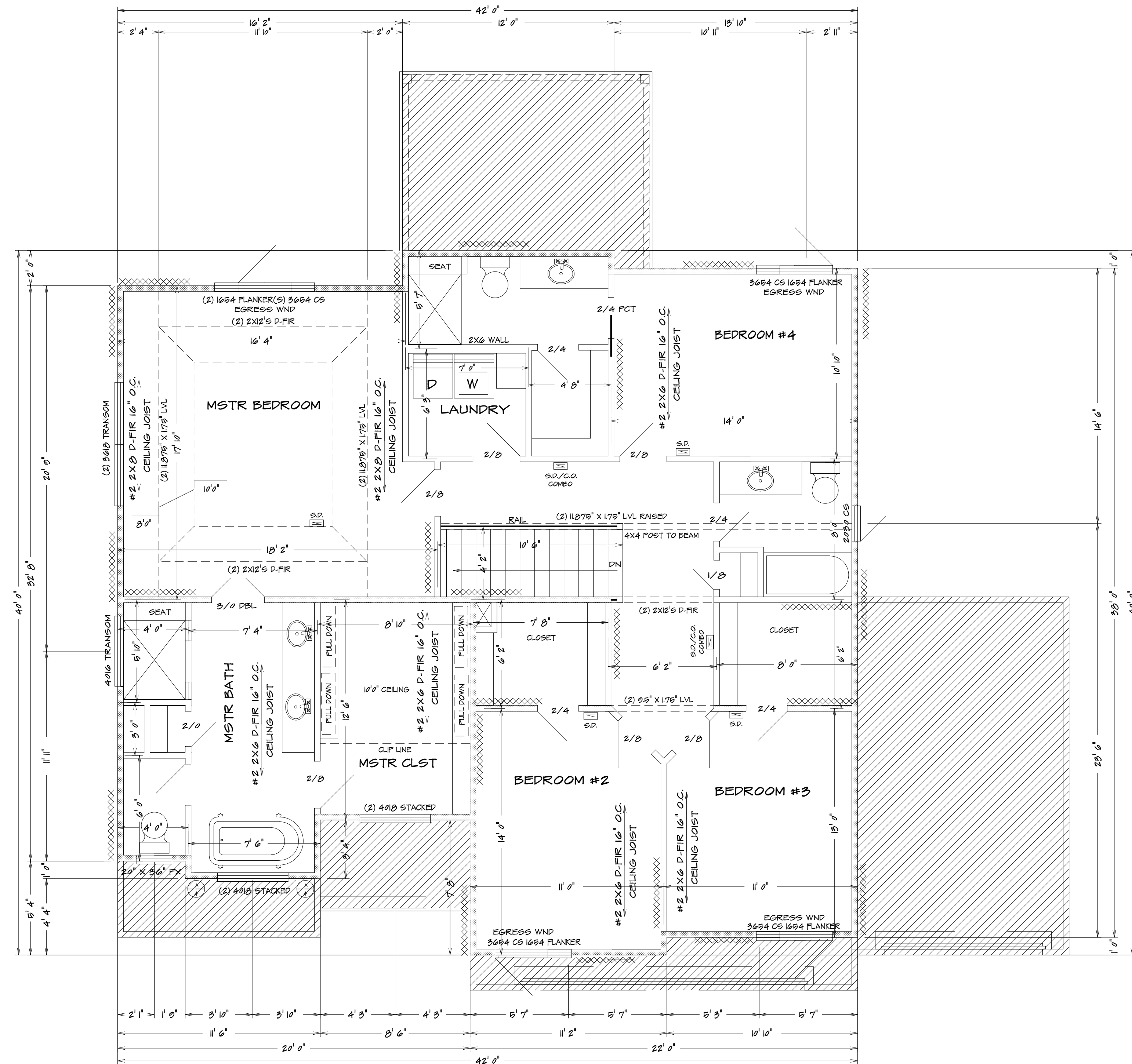


10' TRU 18' TALL WALLS UNINTERRUPTED  
TO BE CONSTRUCTED WITH  
2X6 STUDS 16" O.C. WITH  
STIFF BACK EVERY 48" O.C.

USE HEADERS FOR OPENINGS ABOVE UNLESS SPECIFIED OTHERWISE.

Window opening control devices shall comply with ASTM F 2090. The window opening control device, after operation to release the control device allowing the window to fully open, shall not reduce the minimum net clear opening area of the window unit to less than the area required by Section R310.1.1.

The glazed areas shall not be required where artificial light and a local exhaust system are provided. The minimum local exhaust rates shall be determined in accordance with Section M1507. Exhaust air from the space shall be exhausted directly to the outdoors.


$$1/4'' = 1'0''$$

09/21/2020

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Foundation Wall Reinforcement Schedule - Table 2

| Vertical reinforcement spacing 60 psf soil               |                   |      |      |                    |      |      |
|--|-------------------|------|------|--------------------|------|------|
| Concrete strength/Grade                                  | 8 inch thick wall |      |      | 10 inch thick wall |      |      |
| Reinforcement #4 bar                                     | 8'                | 9'   | 10'  | 8'                 | 9'   | 10'  |
| 3,000 psi / Grade 40                                     | 16                | 12   | NP   | 24                 | 16   | 12   |
| 3,500 psi / Grade 40                                     | 16                | 12   | NP   | 24                 | 24   | 12   |
| 3,000 psi / Grade 60                                     | 24                | 16   | NP   | 24                 | 20   | 16   |
| 3,500 psi / Grade 60                                     | 24                | 16   | NP   | 24                 | 24   | 16   |
| Horizontal reinforcement – Minimum Grade 40 steel #4 bar |                   |      |      |                    |      |      |
| One bar 12" from top of wall; maximum spacing 24" o.c.   | 4-#4              | 5-#4 | 6-#4 | 4-#4               | 5-#4 | 6-#4 |

- Footnotes:
- Wall height is measured from the top of the wall to the top of the floor slab.
  - Vertical reinforcement for concrete walls that are not full height and for reinforcement spaced 24 inch on center may be placed in the middle of the wall. Other walls shall have vertical reinforcement place as follows:
    - 8-inch wall - Minimum 5 inches from the outside face.
    - 10-inch wall – Minimum 6.75 inches from the outside face.
    - Extend bars to within 8 inches of the top of the wall.
  - Reinforcement clearances:
    - Concrete exposed to earth – minimum 1-1/2 inches.
    - Not exposed to weather (interior side of walls) – minimum 3/4 inch.
    - Concrete exposed to weather (top clearance in garage and driveway slabs)- 1-1/2 inches.
  - Horizontal reinforcement:
    - One bar shall be placed within 12 inches of the top of the wall.
    - Other bars shall be equally spaced with spacing not to exceed 24 inches on center.
    - Horizontal bars should be as close to the tension face as possible (interior) and behind the vertical reinforcement (i.e.2" towards the inside).
    - Supplemental reinforcement at corners - Place 1 #4 bar 48 inches long at 45 degree angle at corners of openings per Figure 4a. Place reinforcement within 6" of the edge of inside corners
  - Reinforcement shall be lapped a minimum 24 inches at ends, splices, and around corners.
  - At masonry ledges the minimum wall thickness shall be 3-1/2 inches. Ledges shall not exceed a depth of more than 24 inches below the top of the wall. For wall thicknesses less than 4 inches provide #4 bars at maximum 24 inches on center to within 8 inches of the top of the wall.
  - Straight walls more than 5 feet tall and more than 16 feet long shall be provided with exterior braced return walls. Wall length shall be measured using inside the shortest dimension between intersecting walls (See 7S2).

TABLE F602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

| ITEM  | DESCRIPTION OF BUILDING ELEMENTS  | NUMBER AND TYPE OF FASTENERS <sup>a, b, c</sup>                       | SPACING OF FASTENERS  |
|-------|---|---|---|
| Roof  |   |   |   |
| 1     | Blocking between joists or rafters to top plate, toe nail                         | 3-8d (2 1/2" x 0.113")  | —   |
| 2     | Ceiling joists to plate, toe nail   | 3-8d (2 1/2" x 0.113")  | —   |
| 3     | Ceiling joists not attached to parallel rafter, laps over partitions, face nail   | 3-10d   | —   |
| 4     | Collar tie to rafter, face nail or 1 1/4" x 20 gage ridge strap                   | 3-10d (3" x 0.128")   | —   |
| 5     | Rafter or roof truss to plate, toe nail   | 3-16d box nails (3 1/2" x 0.135") or 3-10d common nails (3" x 0.148") | 2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss                             |
| 6     | Roof rafters to ridge, valley or hip rafters: toe nail face nail                  | 4-16d (3 1/2" x 0.135")<br>3-16d (3 1/2" x 0.135")                    | —   |
| Wall  |   |   |   |
| 7     | Built-up studs-face nail  | 10d (3" x 0.128")   | 24" o.c.  |
| 8     | Abutting studs at intersecting wall corners, face nail                            | 16d (3 1/2" x 0.135")   | 12" o.c.  |
| 9     | Built-up header, two pieces with 1/2" spacer                                      | 16d (3 1/2" x 0.135")   | 16" o.c. along each edge  |
| 10    | Continued header, two pieces  | 16d (3 1/2" x 0.135")   | 16" o.c. along each edge  |
| 11    | Continuous header to stud, toe nail   | 4-8d (2 1/2" x 0.113")  | —   |
| 12    | Double studs, face nail   | 10d (3" x 0.128")   | 24" o.c.  |
| 13    | Double top plates, face nail  | 10d (3" x 0.128")   | 24" o.c.  |
| 14    | Double top plates, minimum 24-inch offset of end joints, face nail in lapped area | 8-16d (3 1/2" x 0.135")   | —   |
| 15    | Sole plate to joist or blocking, face nail  | 16d (3 1/2" x 0.135")   | 16" o.c.  |
| 16    | Sole plate to joist or blocking at braced wall panels                             | 3-16d (3 1/2" x 0.135")   | 16" o.c.  |
| 17    | Stud to sole plate, toe nail  | 3-8d (2 1/2" x 0.113") or 2-16d (3 1/2" x 0.135")                     | —   |
| 18    | Top or sole plate to stud, end nail   | 2-16d (3 1/2" x 0.135")   | —   |
| 19    | Top plates, laps at corners and intersections, face nail                          | 2-10d (3" x 0.128")   | —   |
| 20    | 1" brace to each stud and plate, face nail  | 2-8d (2 1/2" x 0.113")<br>2 staples 1 3/4"                            | —   |
| 21    | 1" x 6" sheathing to each bearing, face nail                                      | 2-8d (2 1/2" x 0.113")<br>2 staples 1 3/4"                            | —   |
| 22    | 1" x 8" sheathing to each bearing, face nail                                      | 2-8d (2 1/2" x 0.113")<br>3 staples 1 3/4"                            | —   |
| 23    | Wider than 1" x 8" sheathing to each bearing, face nail                           | 3-8d (2 1/2" x 0.113")<br>4 staples 1 3/4"                            | —   |
| Floor |   |   |   |
| 24    | Joist to sill or girder, toe nail   | 3-8d (2 1/2" x 0.113")  | —   |
| 25    | Rim joist to top plate, toe nail (roof applications also)                         | 8d (2 1/2" x 0.113")  | 6" o.c.   |
| 26    | Rim joist or blocking to sill plate, toe nail                                     | 8d (2 1/2" x 0.113")  | 6" o.c.   |
| 27    | 1" x 6" subfloor or less to each joist, face nail                                 | 2-8d (2 1/2" x 0.113")<br>2 staples 1 3/4"                            | —   |
| 28    | 2" subfloor to joist or girder, blind and face nail                               | 2-16d (3 1/2" x 0.135")   | —   |
| 29    | 2" planks (plank & beam - floor & roof)   | 2-16d (3 1/2" x 0.135")   | at each bearing   |
| 30    | Built-up girders and beams, 2-inch lumber layers                                  | 10d (3" x 0.128")   | Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice. |
| 31    | Ledger strip supporting joists or rafters   | 3-16d (3 1/2" x 0.135")   | At each joist or rafter   |

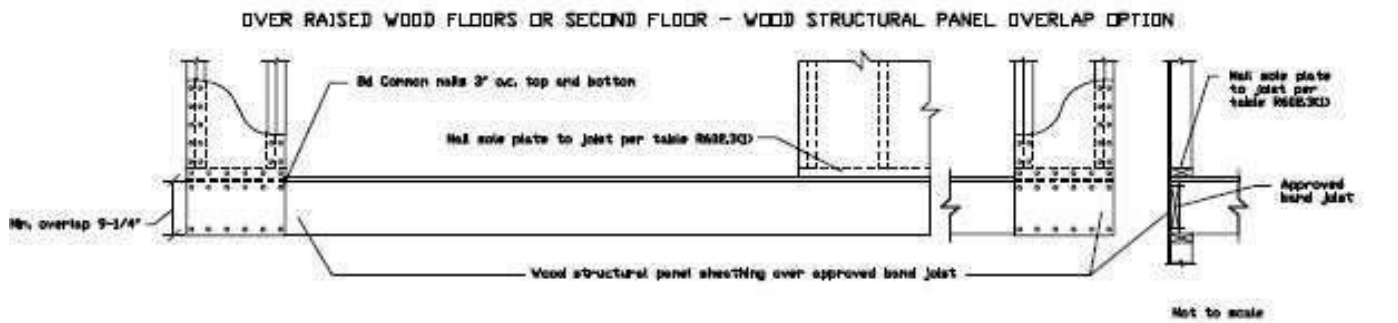
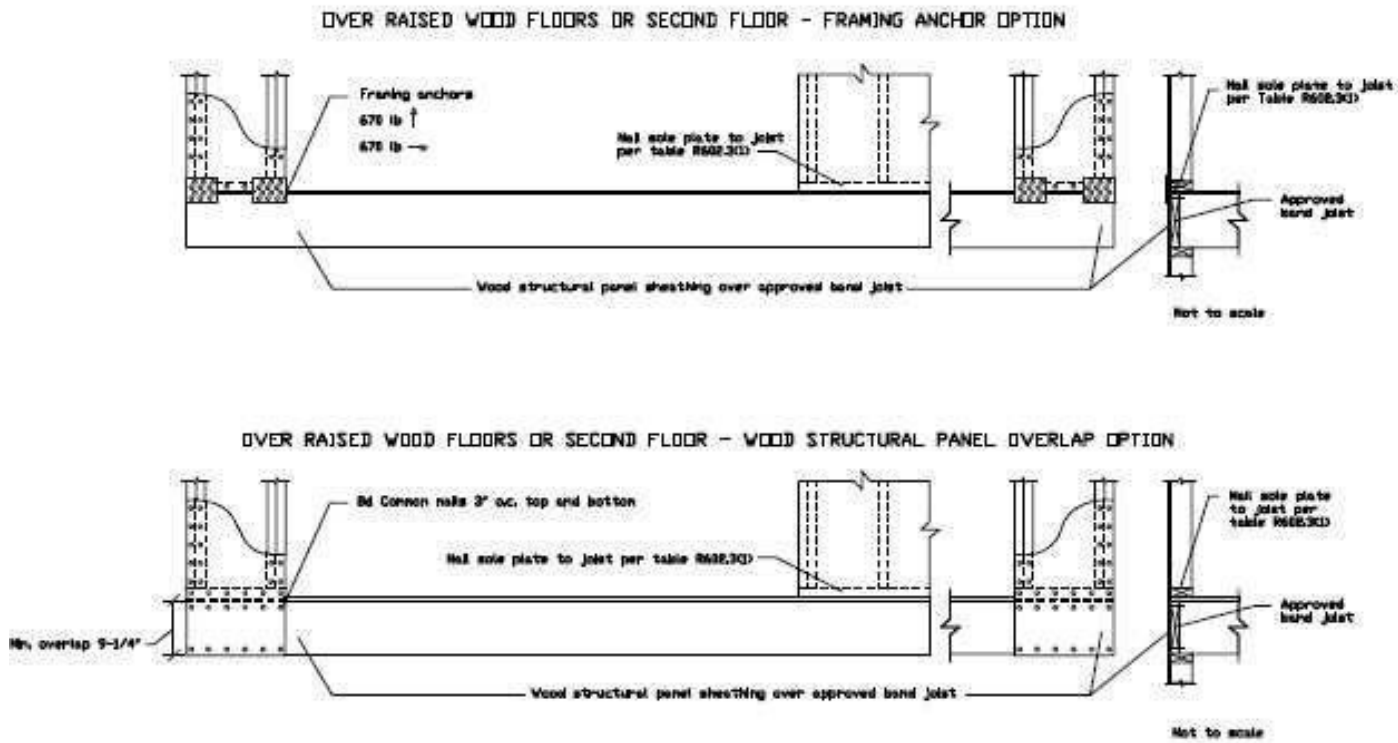
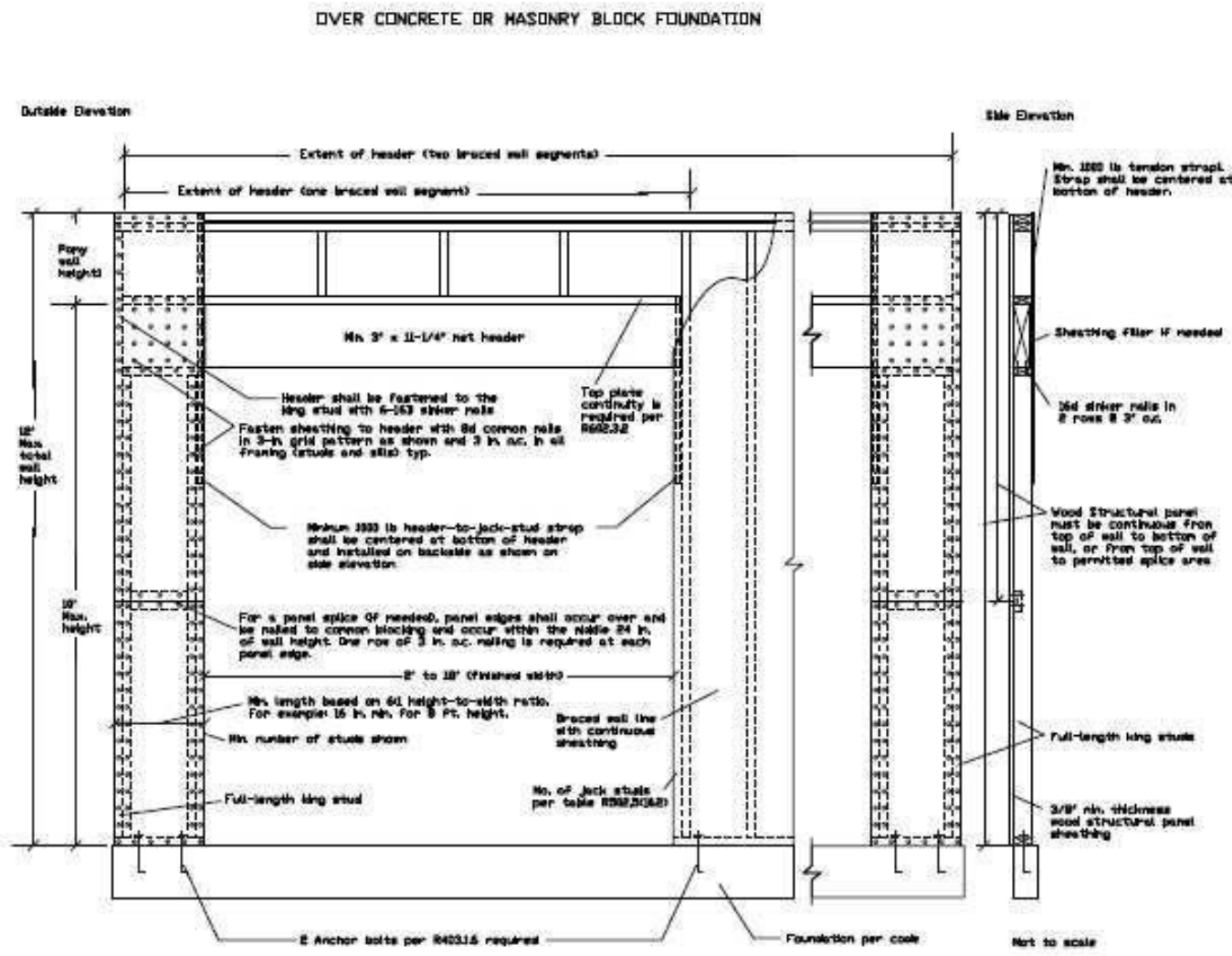
TABLE F602.3(1) –continued FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

| ITEM  | DESCRIPTION OF BUILDING MATERIALS                | DESCRIPTION OF FASTENER <sup>a, c, e</sup>   | SPACING OF FASTENERS        |  |
|---|--|--|-----------------------------|--|
|   |  |  | Edges (inches) <sup>f</sup> | Intermediate supports <sup>c, e</sup> (inches) |
| Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing |  |  |                             |  |
| 32  | 3/8" - 1 1/2"                                    | 6d common (2" x 0.113") nail (subfloor wall)<br>8d common (2 1/2" x 0.131") nail (roof) <sup>f</sup> | 6                           | 12 <sup>g</sup>                                |
| 33  | 1 3/32" - 1"                                     | 8d common nail (2 1/2" x 0.131")   | 6                           | 12 <sup>g</sup>                                |
| 34  | 1 1/8" - 1 1/4"                                  | 10d common (3" x 0.148") nail or<br>8d (2 1/2" x 0.131") deformed nail                               | 6                           | 12   |
| Other wall sheathing <sup>h</sup>   |  |  |                             |  |
| 35  | 1/2" structural cellulose fiberboard sheathing   | 1 1/2" galvanized roofing nail, 7/16" crown or 1" crown staple 16 ga., 1 1/4" long                   | 3                           | 6  |
| 36  | 25/32" structural cellulose fiberboard sheathing | 1 3/4" galvanized roofing nail, 7/16" crown or 1" crown staple 16 ga., 1 1/2" long                   | 3                           | 6  |
| 37  | 1/2" gypsum sheathing <sup>i</sup>               | 1 1/2" galvanized roofing nail; staple galvanized, 1 1/2" long; 1 1/4 screws, Type W or S            | 7                           | 7  |
| 38  | 5/8" gypsum sheathing <sup>i</sup>               | 1 3/4" galvanized roofing nail; staple galvanized, 1 5/8" long; 1 3/8" screws, Type W or S           | 7                           | 7  |
| Wood structural panels, combination subfloor underlayment to framing  |  |  |                             |  |
| 39  | 3/4" and less                                    | 6d deformed (2" x 0.120") nail or<br>8d common (2 1/2" x 0.131") nail                                | 6                           | 12   |
| 40  | 7/8" - 1"  | 8d common (2 1/2" x 0.131") nail or<br>8d deformed (2 1/2" x 0.120") nail                            | 6                           | 12   |
| 41  | 1 1/8" - 1 1/4"                                  | 10d common (3" x 0.148") nail or<br>8d deformed (2 1/2" x 0.120") nail                               | 6                           | 12   |

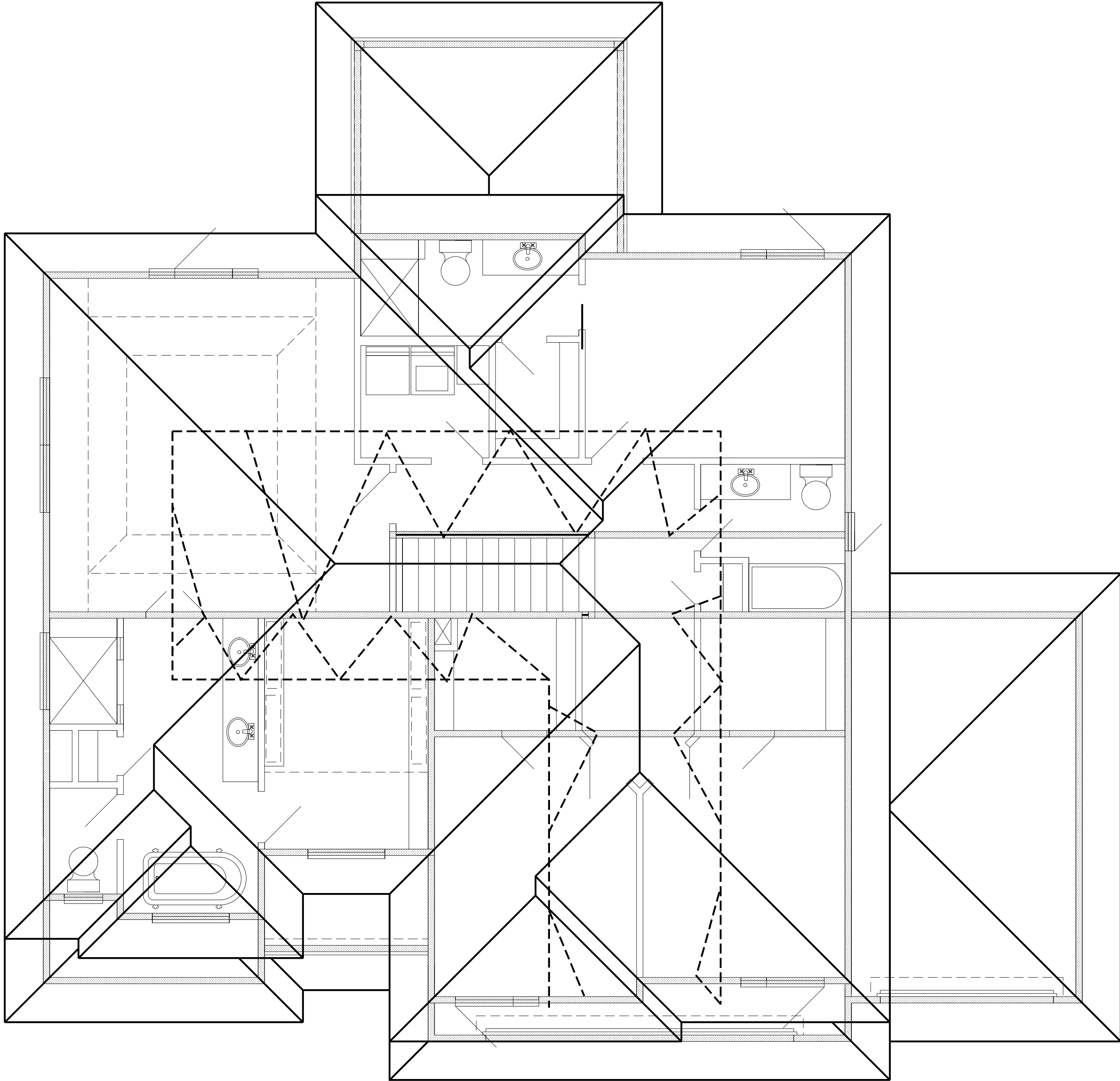
For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 Ksi = 6.895 MPa.

REQUIRED FOOTING:

| BUILDING HEIGHT | MINIMUM FOOTING | HORIZONTAL REBAR | LOCATION OF REBAR |
|-----------------|-----------------|------------------|-------------------|
| 1 OR 2 STY.     | ØT x 16"W       | 2-#4             | 5" FROM BTM       |
| 3 STORY         | ØT x 24"W       | 2-#4             | 5" FROM BTM       |
| ACC. STR.       | ØT x 12"W       | 2-#4             | 5" FROM BTM       |



CF-PF WALL BRACING SECTION



TILE ROOF LOADS:  
ROOF LIVE LOAD = 20 PSF  
ROOF DEAD LOAD = 30 PSF

ROOF ELEVATION  
1/8" = 1'0"

NOTE: HP RIDGE FOR THE MAIN ROOF AS:  
2X10 #2 D-FIR FOR UNBRACED LENGTH UP TO Ø'0"  
2X12 #2 D-FIR FOR UNBRACED LENGTH UP TO 11'0"  
17Ø" X Ø.2Ø" LVL FOR UNBRACED LENGTH UP TO 14'0"  
17Ø" X 11Ø" FOR UNBRACED LENGTH UP TO 17'0"

ALL RAFTERS TO BE #2 2X6 D-FIR 16" O.C.  
UNLESS OTHER WISE NOTED  
MAXIMUM UNSUPPORTED HORIZONTAL SPAN FOR  
#2 2X6 D-FIR 16" O.C. TO BE 11'0"  
PURLINS TO BE EQUAL TO RAFTER OR GREATER  
PURLIN TO BE SUPPORTED TO BEARING WALL LINES  
WITH SUPPORTS SPACED 4'0" O.C. MAX FOR 2X6 PURLIN  
6'0" O.C. MAX FOR 2X8 PURLIN  
8'0" O.C. MAX FOR 2X10 PURLIN  
CONNECT RAFTERS TO CEILING JOIST W (4) 16d GALV. NAILS  
CONNECT RAFTERS TO RIDGE, VALLEY, AND HP RIDGE  
WITH (4) 16d GALV. NAILS

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LEE'S SUMMIT, MISSOURI

09/21/2020



BUILDER/CONTRACTOR IS RESPONSIBLE TO CHECK ALL DIMENSIONS FOR ACCURACY BETWEEN FLOORS, FOUNDATION AND ELEVATIONS ALSO VERIFY ALL BEAM, HEADERS, PIV LOCATIONS, AND COLUMN SIZES. BUILDER/CONTRACTOR ALSO VERIFY TO CHECK FOR COMPLIANCE WITH CONTRACTS, CITY, AND NATIONAL CODES. BUILDER/CONTRACTOR RESPONSIBILITY FOR CORRECT PLACEMENT, SETBACKS, AND FLOOD PLANS. BUILDER/CONTRACTOR AND OWNER SHALL BE RESPONSIBLE FOR ALL DIMENSIONS. BUILDER/CONTRACTOR ACCEPTS RESPONSIBILITY FOR ANY ON SITE CHANGES MADE TO STRUCTURE.

HOME BUYER:  
BUILDER:  
SUB-DIVISION:

PHONE:  
PHONE:  
LOT NO.

DATE DRAWN:  
DATE REVISED:  
DESIGNER:

PLAN NO.  
K1-6106  
FILE NAME:  
6106 SEC2

SHEET NO.  
6  
APPROX. SQ.FT.