

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/18/2022 12:01:45





ASPHALT SHINGLES

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/04/2024

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/BACKFILL PROCESS

FRONT ELEVATION IS ARCHITECTURAL DRAWING AND MAY VARY DUE TO MATERIALS AVAILABILITY

1833 SW SAGE CANYON LEES SUMMIT MO LOT 157 NAPA VALLEY

ASPHALT SHINGLES ASPHALT SHINGLES 8" VERT SIDING 8" VERT SIDING 8" VERT SIDING ASPHALT SHINGLES ASPHALT SHINGLES ASPHALT SHINGLES 8" VERT SIDING GRADE GRADE GRADE

REAR ELEVATION

LEFT ELEVATION

RIGHT ELEVATION

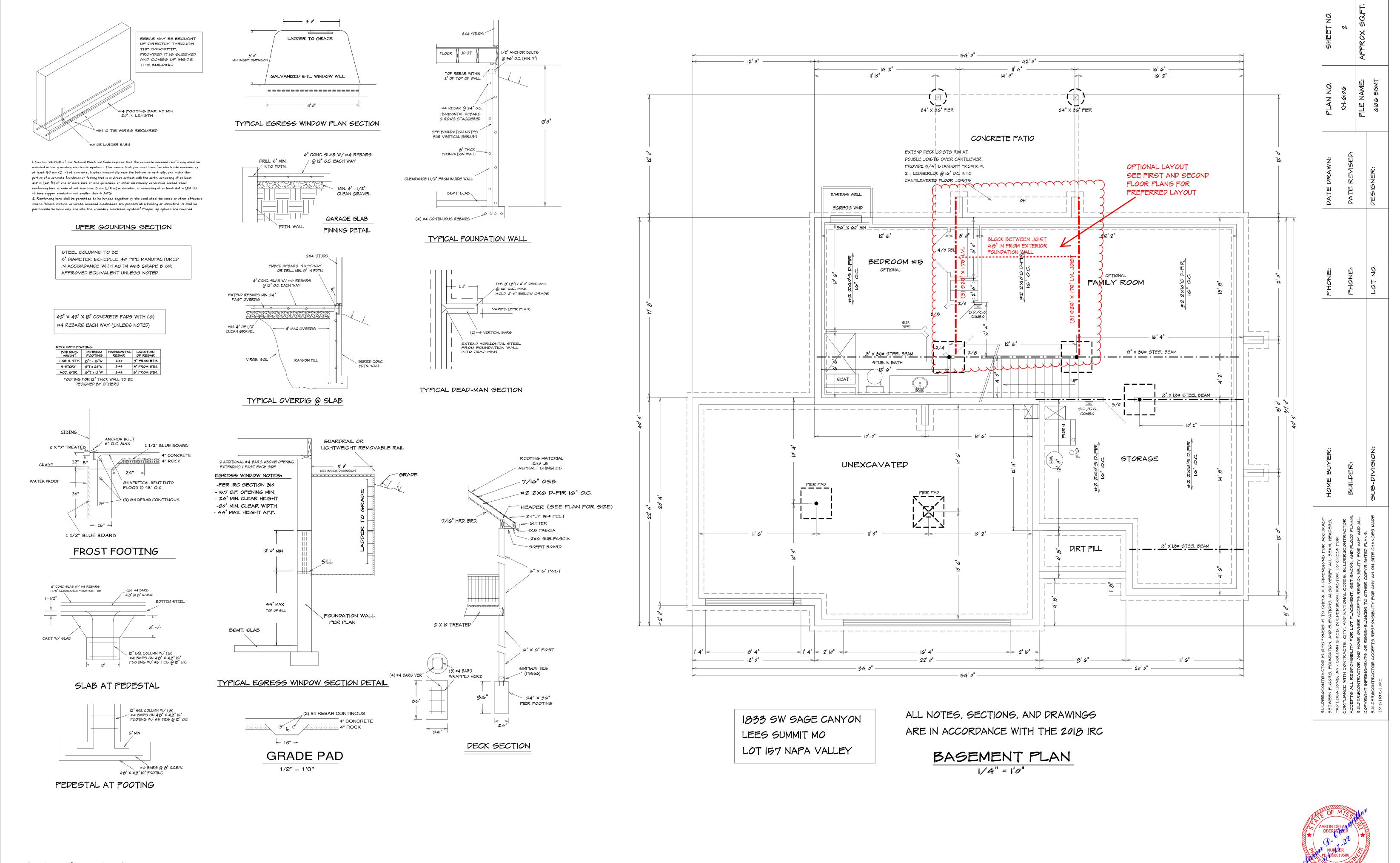


SQUARE FOOTAGE LIVING AREA

FIRST FLOOR = 1105 SECOND FLOOR = 1465 OPTIONAL BASEMENT = 675 COVERED PATIO = 144

UNFINISHED AREA STORAGE BASEMENT = 205 GARAGE = 722

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SEE ELEVATION FOR WALL HEIGHTS

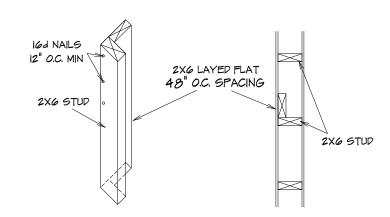
NOTE... ELECTRICAL SERVICE TO BE 200 AMP.

NOTE... DOUBLE JOIST UNDER

ALL PARALLEL WALLS

ABOVE UNLESS NOTED

S.D. = SMOKE DETECTOR



EXTERIOR TALL WALL SECTION

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

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.

R312.2.1 Window sills.

In dwelling units, where the opening of an operable window is located more than 72 inches (1829 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 fininshed 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.

Exceptio

- I. 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.
- 2. Openings that are provided with window fall prevention devices that comply with ASTM F 2000.3. Windows that are provided with window opening control devices that
- 3. Windows that are provided with window opening control devices the comply with Section R312.2.2.

R312.2.2 Window opening control devices.

Window opening control devices shall comply with ASTM F 2000. 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 openable.

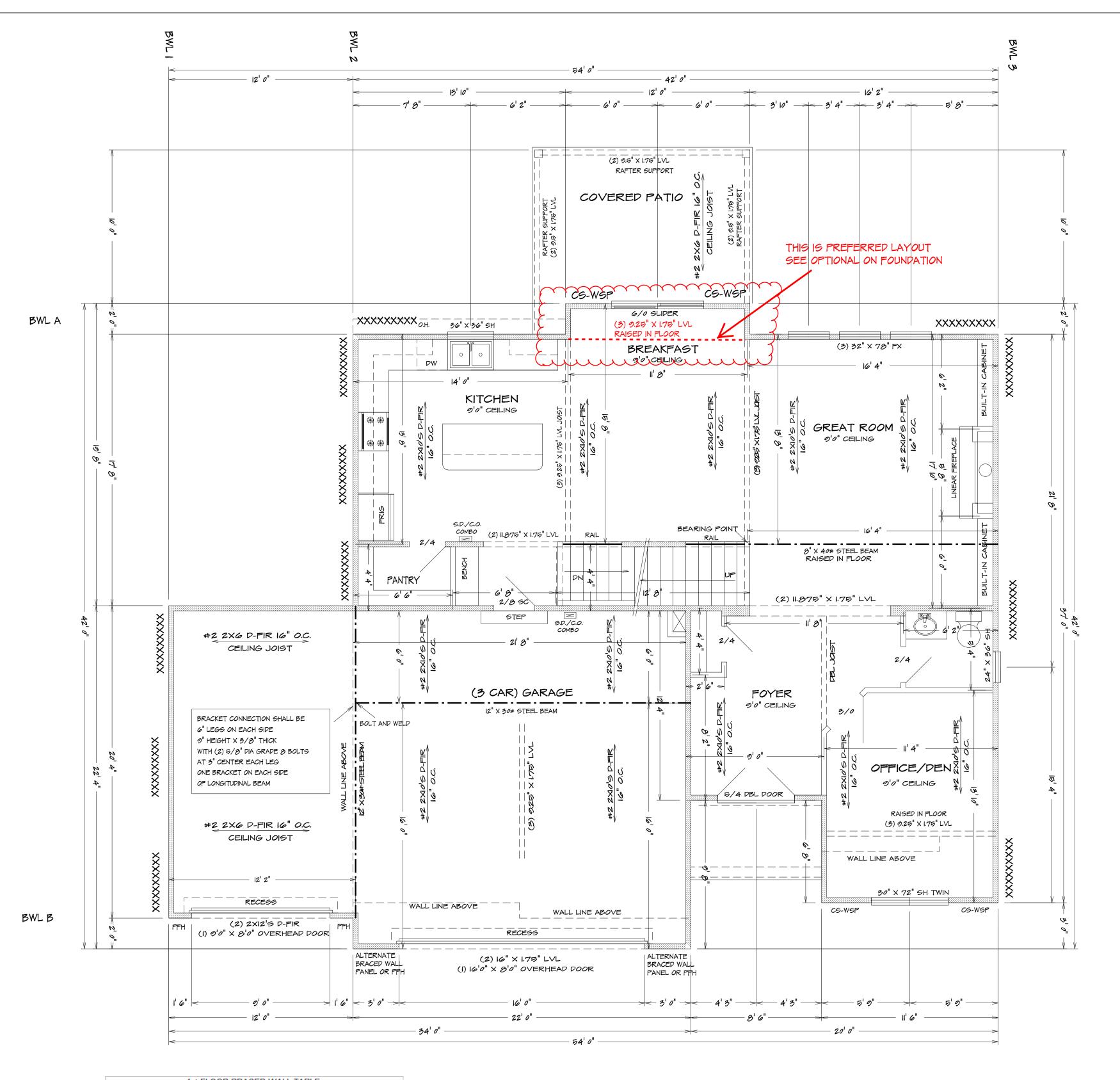
Exception:

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 MI507.

Exhaust air from the space shall be exhausted directly to the outdoors.

1833 SW SAGE CANYON LEES SUMMIT MO LOT 157 NAPA VALLEY



1st FLOOR BRACED WALL TABLE: PROVIDED LENGTH REQ'D LENGTH TYPE CS-WSP/WSP CS-WSP/PFH 10.5 WSP WSP 10.5 WSP- WOOD STRUCTURAL PANEL, 7/16" STRUCTURAL SHEATHING, 8d @ 6" O.C. PERIMETER, 12" O.C. INTERIOR GB - 1/2" GYPSUM BOARD, SCREWS @ 7" O.C. THROUGHOUT PFH - PORTAL FRAME WITH HOLD-DOWNS, PER DETAIL CS-PF - CONTINUOUS SHEATHING PORTAL FRAME PER DETAIL LIB - LET IN BRACING, METAL SURFACE STRAP OPTION. SIMPSON

STRONG TIE WB126 OR EQ. INSTALL PER MFG.

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

BEARING WALL

FIRST FLOOR PLAN

1/4" = 1'0"

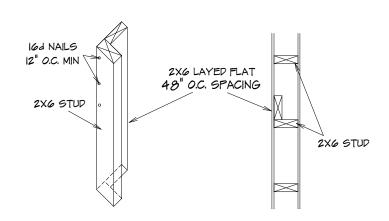


SEE ELEVATION FOR WALL HEIGHTS

NOTE... ELECTRICAL SERVICE TO BE 200 AMP.

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

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THIS IS PREFERRED LAYOUT SEE OPTIONAL ON FOUNDATION BWL A XXXXXXXX BWL A XXXXXXXX 36" × 60" SH 36" X 60" SH EGRESS WND EGRESS WND (2) 2XI2'S P-FIR BEDROOM #4 (2) 11.875" X 1.75" LVL RAISED (2) 2X12'S D-FIR (2) 2X12'S D-FIR CLOSET (2) 9.5" X 1.75" LVL MSTR CLST BEDROOM #2 BEDROOM #3 30" × 36" FX VANITY TOP 30"X \$6" FX5-WSP EGRESS WND 30" X 64" SH TWIN BWL B BWL B EGRESS WND 30" X 64" SH TWIN 20'0" -ALL NOTES, SECTIONS, AND DRAWINGS ARE IN ACCORDANCE WITH THE 2018 IRC

2nd FLOOR BRACED WALL TABLE:					
BWL	SPC	REQ'D PROVIDED LENGTH		TYPE	
Α	20	3.5	8	WSP	
В	20	3.5	9	CS-WSP	
1	21	3.5	8	WSP	
2	21	3.5	8	WSP	

WSP- WOOD STRUCTURAL PANEL, 7/16" STRUCTURAL SHEATHING, 8d @ 6" O.C. PERIMETER, 12" O.C. INTERIOR

GB - 1/2" GYPSUM BOARD, SCREWS @ 7" O.C. THROUGHOUT PFH - PORTAL FRAME WITH HOLD-DOWNS, PER DETAIL

CS-PF - CONTINUOUS SHEATHING PORTAL FRAME PER DETAIL

LIB - LET IN BRACING, METAL SURFACE STRAP OPTION. SIMPSON

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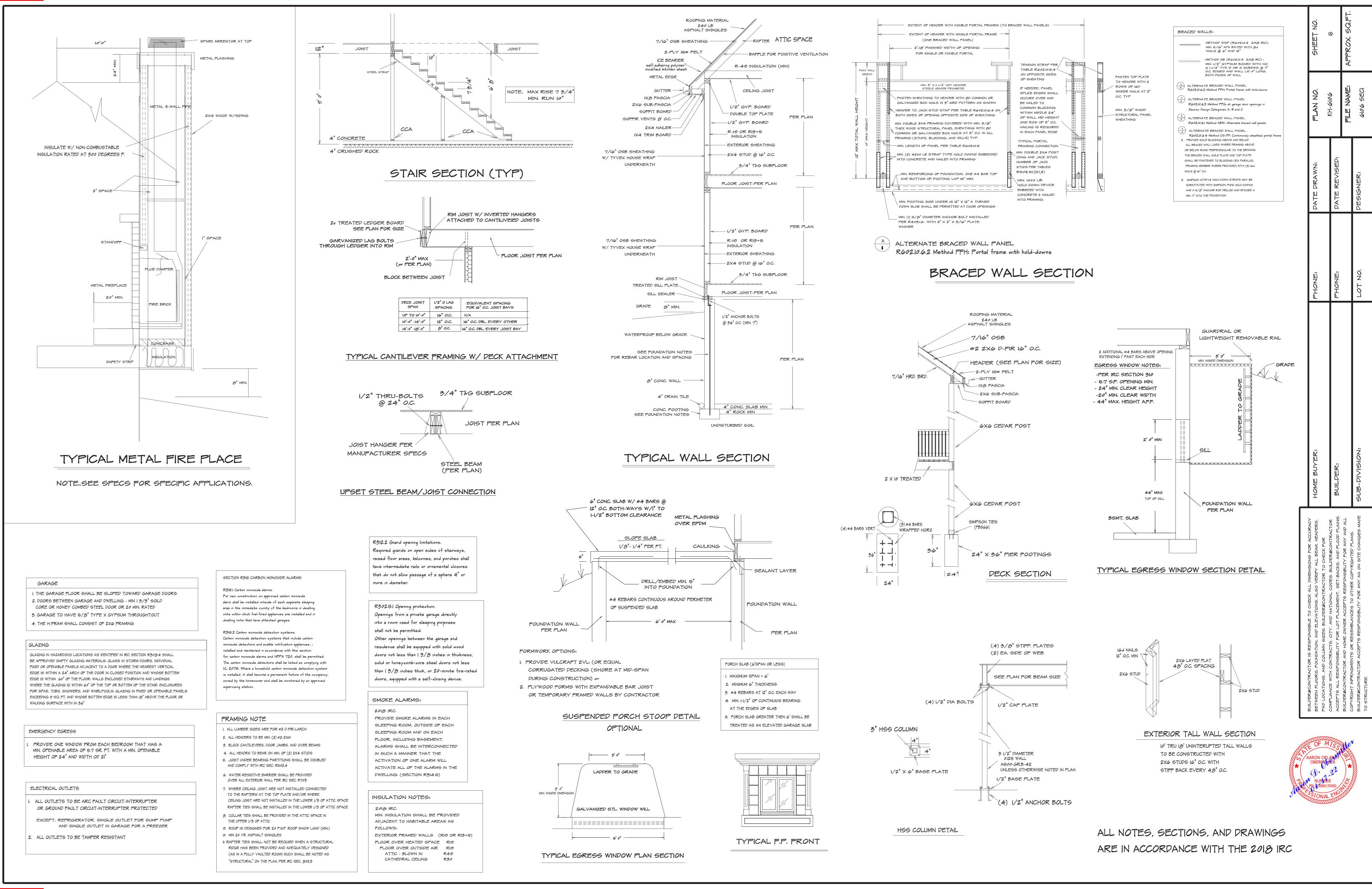
BEARING WALL

SECOND FLOOR PLAN

1/4" = 1'0"



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Foundation Wall Reinforcement Schedule - Table 2

Concrete strength/Grade	8 inch	thick	wall	10 inc	h thic	k 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 -	- Minim	num Gr	ade 40	steel	#4	oar
One bar 12" from top of wall; maximum spacing 24" o.c.	4-#4	5-#4	6-#4	4-#4	5-#4	6-#4

- 1) Wall height is measured from the top of the wall to the top of the floor slab.
- 2) 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:
- a) 8-inch wall Minimum 5 inches from the outside face.
- b) 10-inch wall Minimum 6.75 inches from the outside face. c) Extend bars to within 8 inches of the top of the wall.
- 3) Reinforcement clearances:
- a) Concrete exposed to earth minimum 1-1/2 inches.
- b) Not exposed to weather (interior side of walls) minimum 3/4 inch.
- c) Concrete exposed to weather (top clearance in garage and driveway slabs)- 1-1/2 inches. Horizontal reinforcement:
- a) One bar shall be placed within 12 inches of the top of the wall.
- b) Other bars shall be equally spaced with spacing not to exceed 24 inches on center. c) Horizontal bars should be as close to the tension face as possible (interior) and behind
- the vertical reinforcement (i.e.2" towards the inside). d) 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
- Reinforcement shall be lapped a minimum 24 inches at ends, splices, and around corners. 6) 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. 7) 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 7/S2).

TABLE R602.3(1)—continued FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM DESCRIPTION OF BUILDING MATERIALS		OF DESCRIPTION OF	SPACING OF FASTENERS		
		FASTENER ^{b, c, e}	Edges (inches) ⁱ	Intermediate supports ^{c, e} (inches)	
W	ood structural panels, su	bfloor, roof and interior wa sheathing to fo	ill sheathing to raming	framing and particleboard wall	
32	3/8" - 1/2"	6d common (2" × 0.113") nail (subfloor wall) 8d common (2 ¹ / ₂ " × 0.131") nail (roof) ^f	6	12 ⁹	
33	¹⁹ /32" - 1"	8d common nail (2 ¹ / ₂ " × 0.131")	6	12 ⁹	
34	1 ¹ /8" - 1 ¹ /4"	10d common (3" × 0.148") nail or 8d (2 ¹ /2" × 0.131") deformed nail	6	12	
	^	Other wall she	athing ^h		
35	¹ / ₂ " structural cellulosic 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 cellulosic 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 ^d	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 ^d	1 ³ /4" galvanized roofing nail; staple galvanized, 1 ⁵ /8" long; 1 ⁵ /8" screws, Type W or S	7	7	
Â	Wood stri	ctural panels, combination	subfloor unde	rlayment to framing	
39	³ / ₄ " and less	6d deformed (2" × 0.120") nail or 8d common (2 ¹ / ₂ " × 0.131") nail	6	12	
40	⁷ /8" - 1"	8d common (2 ¹ / ₂ " × 0.131") nail or 8d deformed (2 ¹ / ₂ " × 0.120") nail	6	12	
41	11/8" - 11/4"	10d common (3" × 0.148") nail or 8d deformed (2 ¹ / ₂ " × 0.120") nail	6	12	

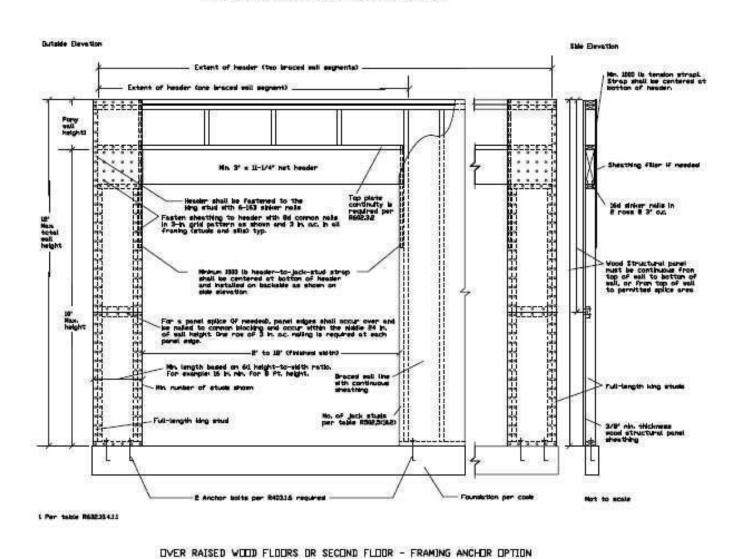
For SI: 1 inch = 25.4 mm. 1 foot = 304.8 mm. 1 mile per hour = 0.447 m/s: 1 Ksi = 6.895 MPa.

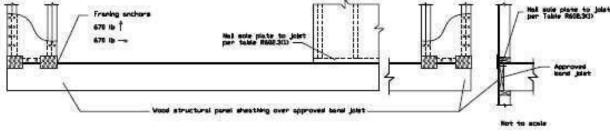
REQUIRED FO	OTING:		
BUILDING HEIGHT	MINIMUM FOOTING	HORIZONTAL REBAR	LOCATION OF REBAR
1 OR 2 STY.	8"T × 16"W	2-#4	3" FROM BTM.
3 STORY	8"T × 24"W	2-#4	3" FROM BTM.
ACC. STR.	8"T × 12"W	2-#4	3" FROM BTM.

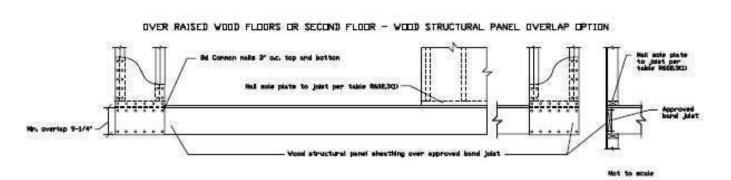
TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING ELEMENTS	TYPE OF FASTENER ^{a, b, c}	SPACING OF FASTENERS	
	March Colors Action Av. March	Roof	Ì	
1	Blocking between joists or rafters to top plate, toe nail	3-8d (2 ¹ / ₂ " × 0.113")	857	
2	Ceiling joists to plate, toe nail	3-8d (2 ¹ / ₂ " × 0.113")	8 -	
3	Ceiling joists not attached to parallel rafter, laps over partitions, face nail	3-10d	9 	
4	Collar tie to rafter, face nail or 1 ¹ /4" × 20 gage ridge strap	3-10d (3" × 0.128")	18 -	
5	Rafter or roof truss to plate, toe nail	3-16d box nails (3 ¹ / ₂ " × 0.135") or 3-10d common nails (3" × 0.148")	2 toe nails on one side and 1 toe nail on opposite side of each rafter or trussi	
6	Roof rafters to ridge, valley or hip rafters: toe nail face nail	4-16d (3 ¹ / ₂ " × 0.135") 3-16d (3 ¹ / ₂ " × 0.135")	8-	
7	NO.	Wall 10d (3" × 0.128")	24"	
7 8	Built-up studs-face nail Abutting studs at intersecting wall corners, face nail	16d (3 ¹ / ₂ " ×	24" o.c. 12" o.c.	
9	Built-up header, two pieces with ¹ / ₂ " spacer	0.135") 16d (3 ¹ / ₂ " × 0.135")	16" o.c. along each edge	
10	Continued header, two pieces	16d (3 ¹ / ₂ " × 0.135")	16" o.c. along each edge	
11	Continuous header to stud, toe nail	4-8d (2 ¹ / ₂ " × 0.113")	81-	
12	Double studs, face nail	10d (3" × 0.128")	24" o.c.	
13	Double top plates, face nail	10d (3" × 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 " × 0:135")	¥ -	
15	Sole plate to joist or blocking, face nail	16d (3 ¹ / ₂ " × 0.135")	16" o.c.	
16	Sole plate to joist or blocking at braced wall panels	3-16d (3 ¹ / ₂ " × 0.135")	16" o.c.	
17	Stud to sole plate, toe nail	3-8d (2 ¹ / ₂ " × 0.113") or 2-16d (3 ¹ / ₂ " × 0.135")	y-s	
18	Top or sole plate to stud, end nail	2-16d (3 ¹ / ₂ " × 0.135")	* -	
19	Top plates, laps at corners and intersections, face nail	2-10d (3" × 0.128")	8=	
20	1" brace to each stud and plate, face nail	2-8d (2 ¹ / ₂ " × 0.113") 2 staples 1 ³ / ₄ " ×	7212	
21	1" × 6" sheathing to each bearing, face nail	2-8d (2 ¹ / ₂ " × 0.113") 2 staples 1 ³ / ₄ "	12—12—12—12—12—12—12—12—12—12—12—12—12—1	
22	1" × 8" sheathing to each bearing, face nail	2-8d (2 ¹ / ₂ " × 0.113") 3 staples 1 ³ / ₄	N-145	
23	Wider than 1" × 8" sheathing to each bearing, face nail	3-8d (2 ¹ / ₂ " × 0.113") 4 staples 1 ³ / ₄ "	1122	
24	Joist to sill or girder, toe nail	3-8d (2 ¹ /2" ×	\$(-	
25	Rim joist to top plate, toe nail	0.113") 8d (2 ¹ / ₂ " ×	6″ o.c.	
26	(roof applications also) Rim joist or blocking to sill	0.113") 8d (2 ¹ / ₂ " ×	6″ o.c.	
27	plate, toe nail	0.113") 2-8d (2 ¹ / ₂ " × 0.113")	8-7-8	
78/28/	each joist, face nail 2" subfloor to joist or girder,	2 staples 1 ³ / ₄ " 2-16d (3 ¹ / ₂ " ×		
28	blind and face nail 2" planks (plank & beam -	0.135") 2-16d (3 ¹ / ₂ " ×	85 BYG 88	
29	floor & roof)	0.135")	at each bearing	
30	Built-up girders and beams, 2-inch lumber layers	10d (3" × 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	3-16d (3 ¹ / ₂ " ×	At each joist or rafter	

DVER CONCRETE OR HASONRY BLOCK FOUNDATION







CF-PF WALL BRACING SECTION

KH-6106 (LOT 157)

ROOF ELEVATION 1/4" = 1'0"

> ROOF DESIGNED WITH: LIVE LOAD = 20 PSF DEAD LOAD = 10 PSF

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2X8 FOR UNBRACED LENGTH UP TO 9'0" 2XIO FOR UNBRACED LENGTH UP TO 10'0"

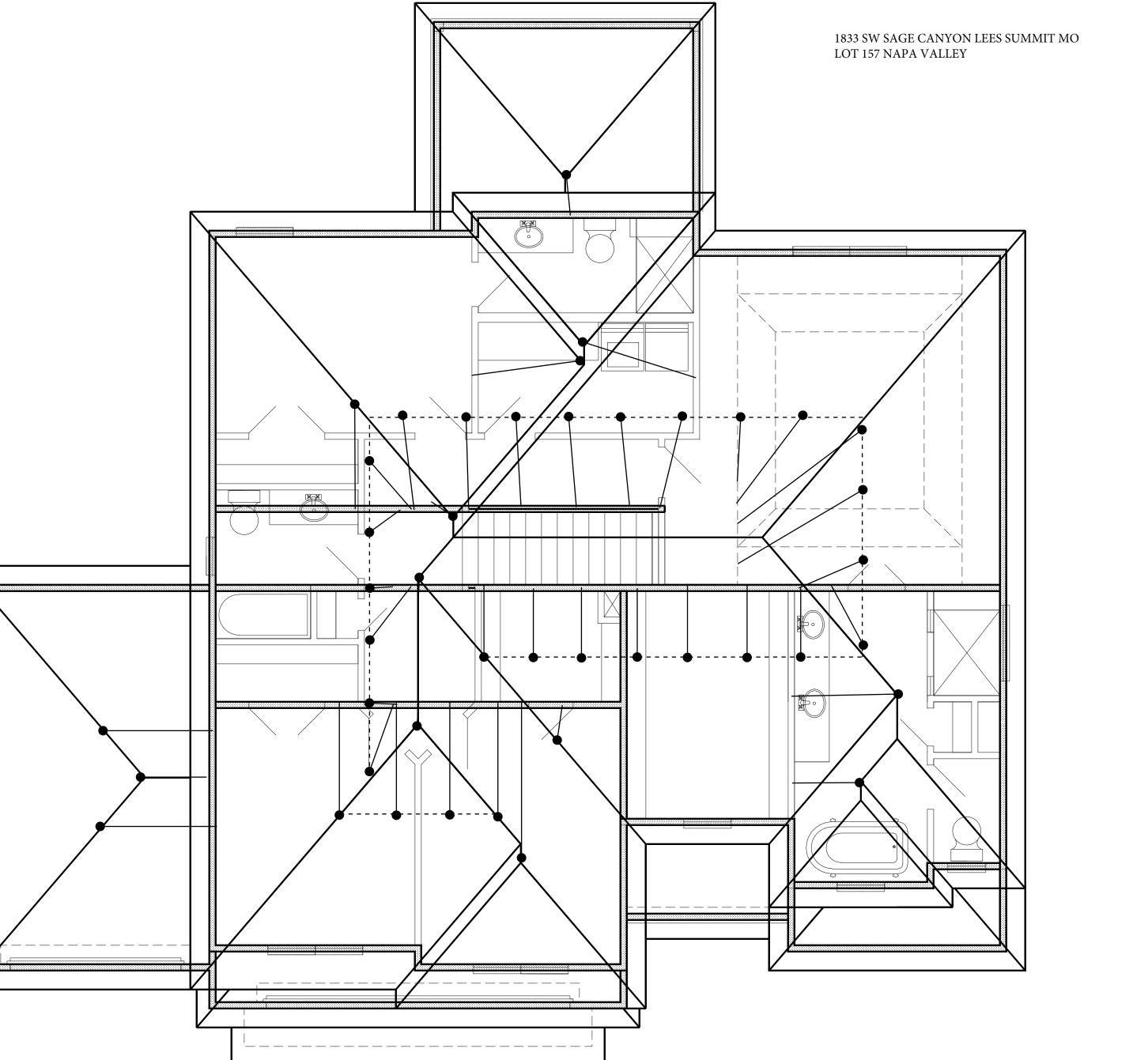
ALL RAFTERS TO BE #2 2X6 D-FIR 16" O.C. UNLESS OTHER WISE NOTED

PURLING RAFTERS TO BEARING WALL LINES

CONNECT RAFTERS TO CEILING JOIST W (4) 16d GALV. NAILS

CONNECT RAFTERS TO RIDGE, VALLEY, AND HIP RIDGE

VERT. RIDGE AND RAFTER SUPPORTS TO BE EQUAL TO OR GREATER THAN THE DEPTH OF RAFTERS





AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/04/2024 2XI2 FOR UNBRACED LENGTH UP TO 12'0"

WITH (4) 16d GALV. NAILS