

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

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

REQUIRED FOOTING:

BUILDING HEIGHT	MINIMUM FOOTING	HORIZONTAL REBAR	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.

*4 FOOTING BAR AT MIN.

20' IN LENGTH

MIN. 2 TIE WIRES REQUIRED

REBAR MAY BE BROUGHT UP DIRECTLY THROUGH THE CONCRETE, PROVIDED IT IS SLEEVED AND COMES UP INSIDE THE BUILDING

#4 OR LARGER BARS

1. Section 250.52 of the National Electrical Code requires that the concrete encased reinforcing steel be included in the grounding electrode system... This means that you must have "an electrode encased by at least 50 mm (2 in.) of concrete, located horizontally near the bottom or vertically, and within that portion of a concrete foundation or footing that is in direct contact with the earth, consisting of at least 6.0 m (20 ft) of one or more bare or zinc galvanized or other electrically conductive coated steel reinforcing bars or rods of not less than $13 \, \text{mm} (1/2 \, \text{in.})$ in diameter, or consisting of at least 6.0 m (20 ft) of bare copper conductor not smaller than 4 AWG.

2. Reinforcing bars shall be permitted to be bonded together by the usual steel tie wires or other effective means. Where multiple concrete-encased electrodes are present at a building or structure, it shall be permissible to bond only one into the grounding electrode system." Proper lap splices are required

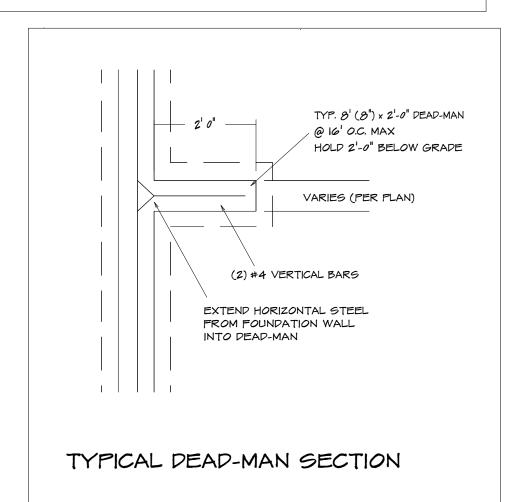
UFER GOUNDING SECTION

STEEL COLUMNS TO BE 3" DIAMETER SCHEDULE 40 PIPE MANUFACTURED IN ACCORDANCE WITH ASTM AS3 GRADE B OR APPROVED EQUIVALENT UNLESS NOTED

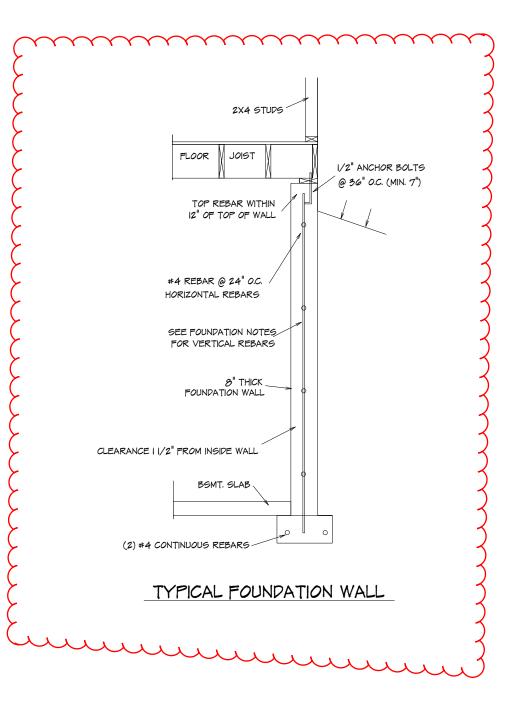
2X4 STUDS 1/2" ANCHOR BOLTS @ 36" O.C. (MIN. 7") TOP REBAR WITHIN 12" OF TOP OF WALL #4 REBAR @ 24" O.C. / HORIZONTAL REBARS SEE FOUNDATION NOTES FOR VERTICAL REBARS 8" THICK _ FOUNDATION WALL CLEARANCE | 1/2" FROM INSIDE WALL BSMT. SLAB (2) #4 CONTINUOUS REBARS TYPICAL FOUNDATION WALL

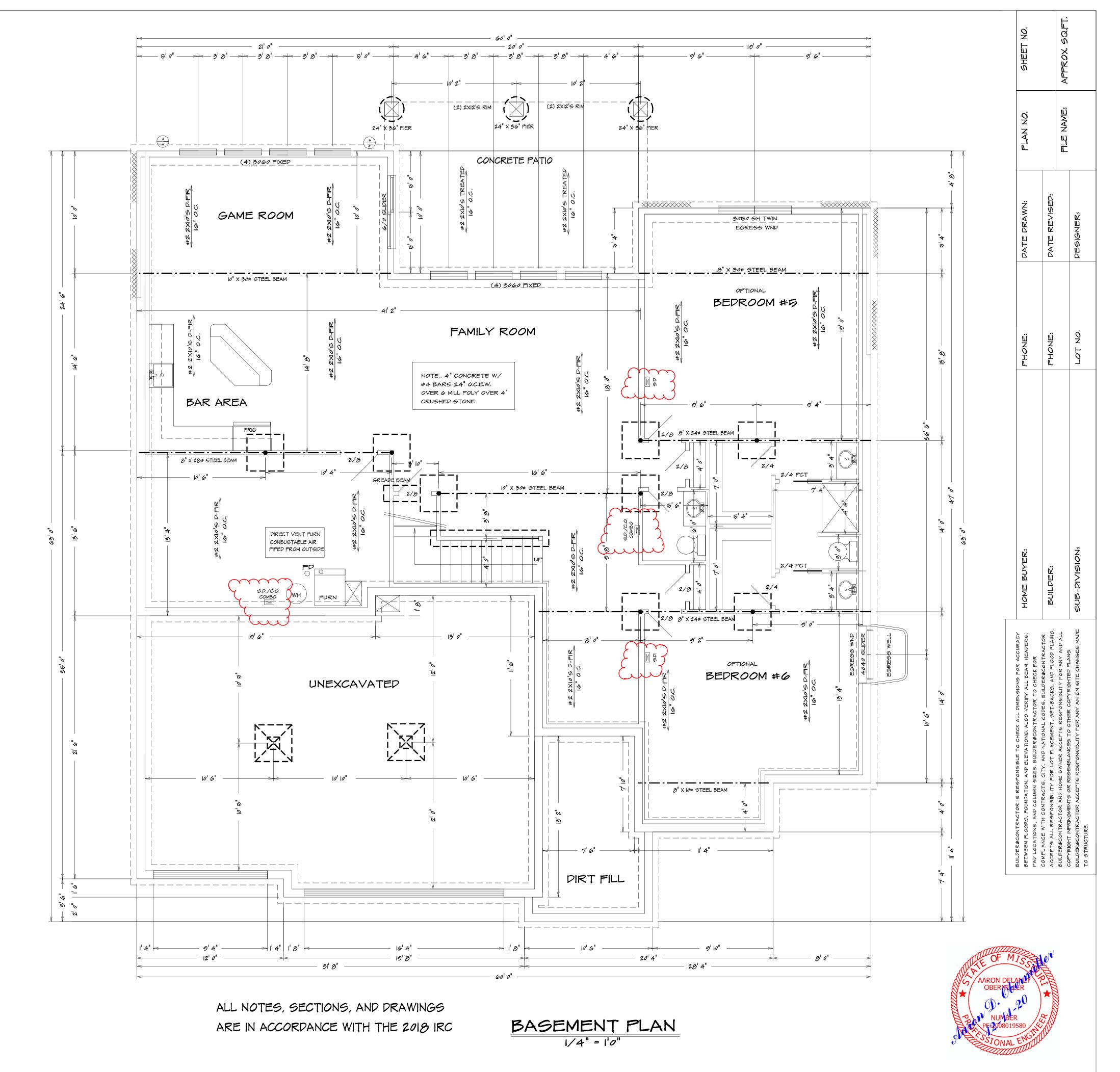
Note...Bridging. Joists exceeding a nominal 2 inches by 12 inches shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch strip nailed across the bottom of joists perpendicular to joists at intervals not exceeding 8 feet. (R502.7.1)

SF-7015



LOT 74 WOODSIDE RIDGE 341 NW AMBERSHAW DR. LEES SUMMIT MO. 64081





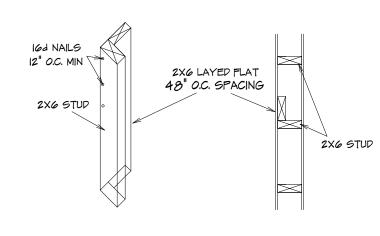
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EXTERIOR TALL WALL SECTION

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

GENERAL HEADER SPECIFICATIONS:			
REQUIRED AREAS NEEDING HEADERS: HEADER DESCRIPTIONS:			
WINDOWS/DOORS UP TO 38" R.O.	(2) #2 D-FIR 2XIO1S		
WINDOWS/DOORS 38" UP TO 72" R.O.	(2) #2 P-FIR 2XI0'S W/I/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	(Z) 9 1/2" L.V.L.		
8'0" GARAGE POORS W/SECOND FLOOR	(2) 9 1/2" L.V.L.		
9'0" GARAGE DOORS W/SECOND FLOOR	(2) 7/8" L.V.L.		
16'0" GARAGE DOOR W/NO SECOND FLOOR	(2) 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 (1820 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 2090.
- 3. 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 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.

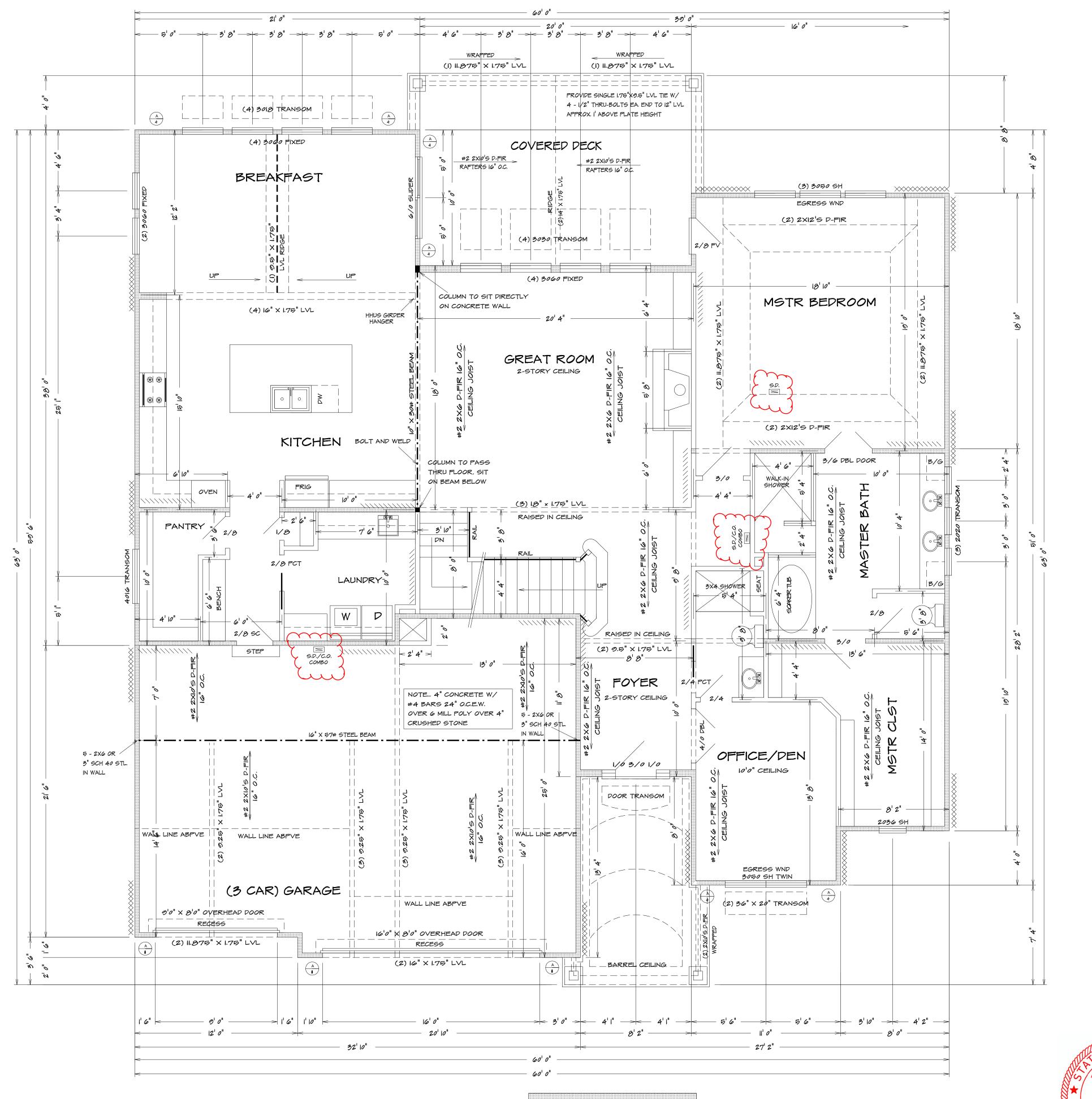
Bathrooms, water closet compartments and other similar rooms shall be provided with aggregate glazing area in windows of not less than 3 square feet, one-half of which must be openable.

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.



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

FIRST FLOOR PLAN

1/4" = 1'0"

BEARING WALL LINES

SEE ELEVATION FOR

WALL HEIGHTS

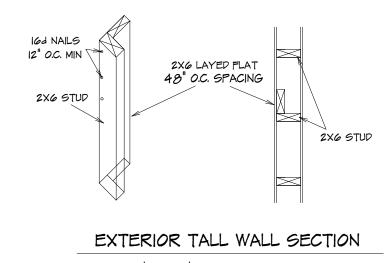
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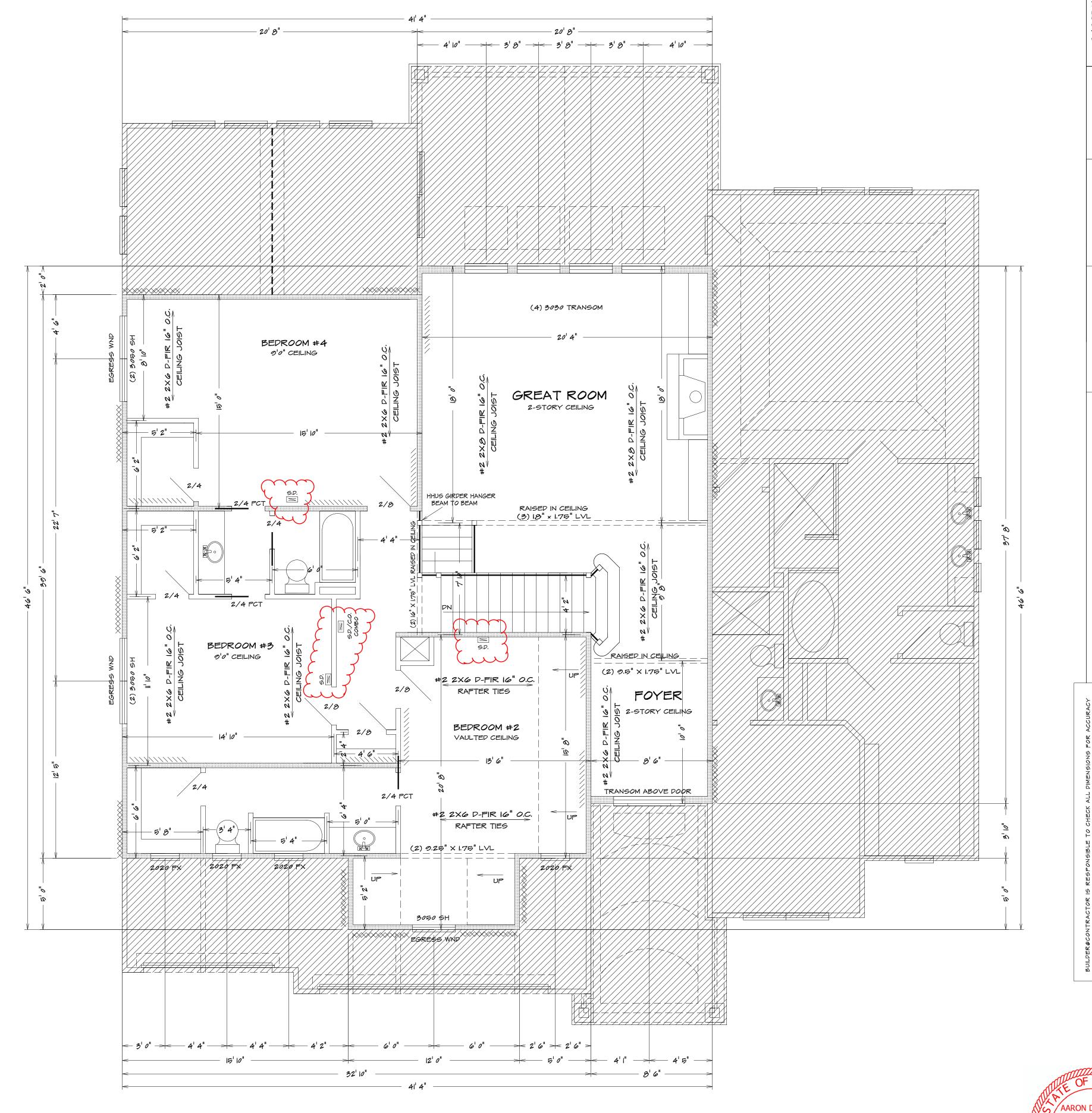
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The minimum local exhaust rates shall be determined in accordance with Section MIB07.

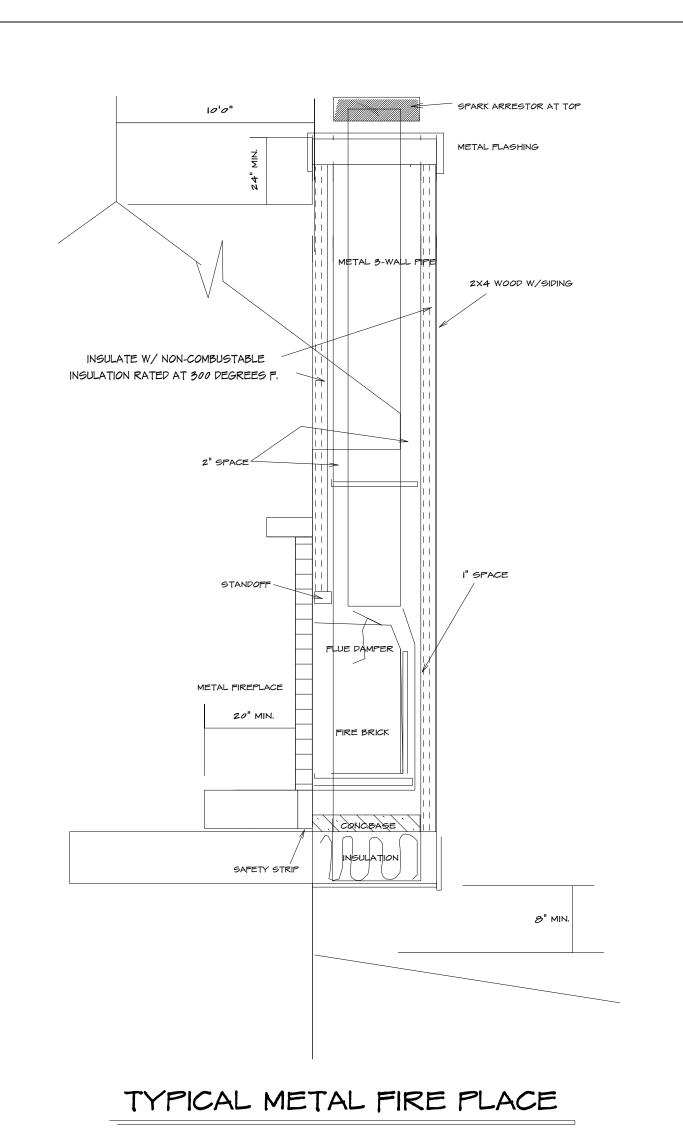
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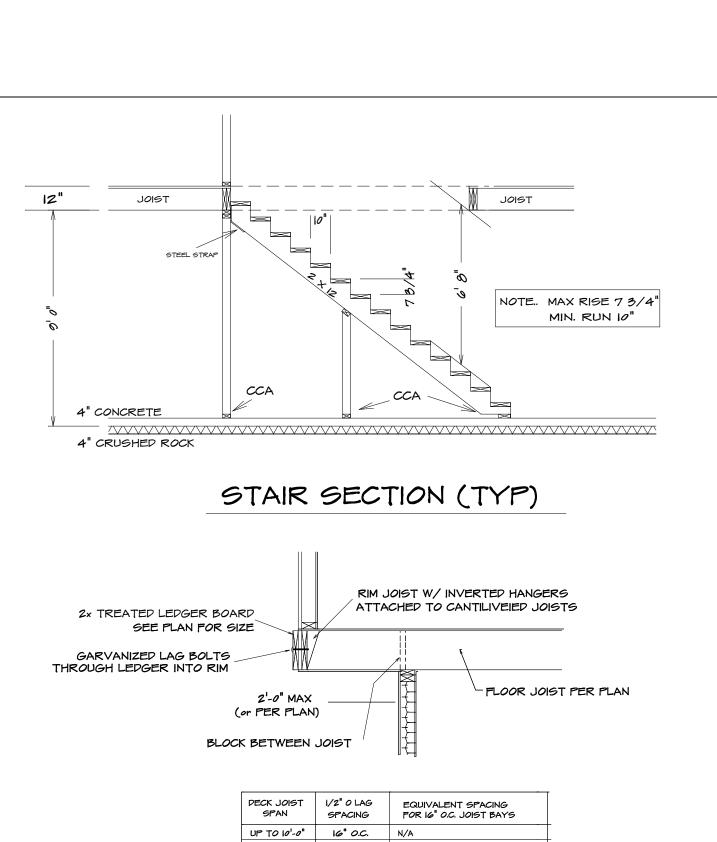
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SECOND FLOOR PLAN

1/4'' = 1'0''



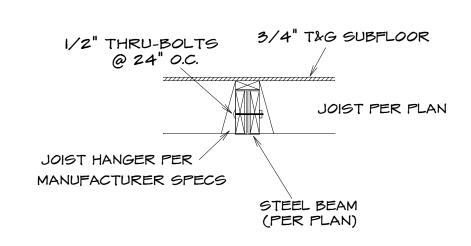
NOTE SEE SPECS FOR SPECIFIC APPLICATIONS.



TYPICAL CANTILEVER FRAMING W/ DECK ATTACHMENT

10'-0" -14'-0" | 12" O.C. | 16" O.C. DBL. EVERY OTHER

14'-0" -18'-0" 8" O.C. 16" O.C. DBL. EVERY JOIST BAY



UPSET STEEL BEAM/JOIST CONNECTION

R312.2 Guard opening limitations.

R302.5.1 Opening protection.

shall not be permitted.

SMOKE ALARMS:

more in diameter.

Required guards on open sides of stairways,

have intermediate rails or ornamental closures

that do not allow passage of a sphere 4" or

Openings from a private garage directly

into a room used for sleeping purposes

Other openings between the garage and

residence shall be equipped with solid wood

doors not less than 13/8 inches in thickness,

solid or honeycomb-core steel doors not less

doors, equipped with a self-closing device.

PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH

SLEEPING ROOM AND ON EACH

FLOOR, INCLUDING BASEMENT.

IN SUCH A MANNER THAT THE

DWELLING. (SECTION R314.5)

ACTIVATION OF ONE ALARM WILL

ALARMS SHALL BE INTERCONNECTED

ACTIVATE ALL OF THE ALARMS IN THE

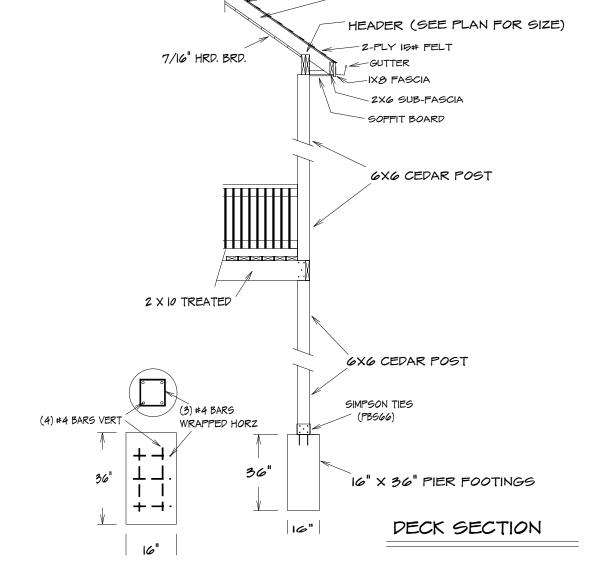
than 13/8 inches thick, or 20-minute fire-rated

raised floor areas, balconies, and porches shall

I-I/2" BOTTOM CLEARANCE METAL FLASHING OVER EPDM SLOPE SLAB 1/8"- 1/4" PER FT. CAULKING DRILL/EMBED MIN. 5" INTO FOUNDATION #4 REBARS CONTINUOUS AROUND PERIMETER OF SUSPENDED SLAB FOUNDATION WALL PER PLAN

SUSPENDED PORCH STOOP DETAIL

TYPICAL F.P. FRONT



EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES (TO BRACED WALL PANELS)

TENSION STRAP PER

TABLE R602.10.5.4

ON OPPOSITE SIDES

SPLICE EDGES SHALL

OCCURE OVER AND

COMMON BLOCKING

WITHIN MIDDLE 24"

OF WALL MID-HEIGH

ONE ROW OF 3" O.C.

NAILING IS REQUIRED

IN EACH PANEL EDGE

FRAMING CONNECTION

MIN. DOUBLE 2X4 POST

(KING AND JACK STUD)

NUMBER OF JACK

STUDS PER TABLES

HOLD-DOWN DEVICE

CONCRETE & NAILED

R502.5(1)&(2)

EMBEDED INTO

INTO FRAMING.

BRACED WALL SECTION

ROOFING MATERIAL

240 LB ASPHALT SHINGLES

-7/16" OSB

_#2 2X6 D-FIR 16" O.C.

MIN. 1000 LB.

TYPICAL PORTAL

BE NAILED TO

OF SHEATING

(ONE BRACED WALL PANEL)

_ 2'-18' FINISHED WIDTH OF OPENING

FOR SINGLE OR DOUBLE PORTAL

MIN. 3" X II I/4" NET HEADER

FASTEN SHEATHING TO HEADER WITH 8D COMMON OR

MIN. DOUBLE 2X4 FRAMING COVERED WITH MIN. 3/8"

THICK WOOD STRUCTURAL PANEL SHEATHING WITH 80

COMMON OR GALVANIZED BOX NAILS AT 3" O.C. IN ALL

MIN. (2) 4200 LB STRAP TYPE HOLD DOWND EMBEDDED

MIN. REINFORCING OF FOUNDATION, ONE #4 BAR TOP

FRAMING (STUDS, BLOCKING, AND SILLS) TYP.

-MIN. LENGTH OF PANEL PER TABLE R602.10.5

NTO CONCRETE AND NAILED INTO FRAMING

AND BOTTOM OF FOOTING. LAP 15" MIM.

MIN. FOOTING SIZE UNDER IS 12" X 12" A TURNED DOWN SLAB SHALL BE PERMITTED AT DOOR OPENINGS

MIN. (1) 5/8" DIAMETER ANCHOR BOLT INSTALLED

ALTERNATE BRACED WALL PANEL

R602.10.3.3 Method PFH: Portal frame with hold-downs

PER R403.1.6- WITH 2" X 2" X 3/16" PLATE

GALVANIZED BOX NAILS IN 3" GRID PATTERN AS SHOWN

HEADER TO JACK-STUD STAP PER TABLE R602.10.6.4 ON

GUARDRAIL OR LIGHTWEIGHT REMOVABLE RAIL 2 ADDITIONAL #4 BARS ABOVE OPENING — 3' o" — EXTENDING I' PAST EACH SIDE EGRESS WINDOW NOTES: ************ -PER IRC SECTION 310 - 5.7 S.F. OPENING MIN. - 24" MIN. CLEAR HEIGHT -20" MIN. CLEAR WIDTH - 44" MAX. HEIGHT A.F.F. 2' 0" MIN SILL 44" MAX TOP OF SILL FOUNDATION WALL PER PLAN

BRACED WALLS:

TO HEADER WITH 2

SINKER NAILS AT 3"

MIN. 3/8" WOOD

-STRUCTURAL PANEL

ROWS OF 16D

O.C. TYP

SHEATHING

METHOD WSP (R602.10.2 2012 IRC):

MIN. 5/16" APA RATED WITH 8d

METHOD GB (R602.10.2 2012 IRC) :

MIN. I/2" GYPSUM BOARD WITH NO

O.C. EDGES AND WALL (4'-0" LONG, BOTH FACES OF WALL

R602.10.3.3 Method PFH: Portal frame with hold-downs

R602.10.3.4 Method PFG: at garage door openings in

R602.10.3.2 Method ABW: Alternate braced wall panels

R602.10.6.4 Method CS-PF: Continuously sheathed portal frame

ALTERNATE BRACED WALL PANEL

ALTERNATE BRACED WALL PANEL

Seismic Design Categories A, B and C

ALTERNATE BRACED WALL PANEL

A ALTERNATE BRACED WALL PANEL

NAILS @ 16" O.C.

2. PROVIDE SOLID BLOCKING ABOVE AND BELOW

ALL BRACED WALL LINES WHERE FRAMING ABOVE

OR BELOW RUNS PERPENDICULAR TO THE BRACING.

THE BRACED WALL SOLE PLATE AND TOP PLATE

SHALL BE FASTENED TO BLOCKING (RO PARALLEL

3. SIMPSON STHD-14 HOLD-DOWN STRAPS MAY BE

MIN. 7" INTO THE FOUNDATION

SUBSTITUTED WITH SIMPSON PHD2 HOLD-DOWNS

AND A 5/8" ANCHOR ROD DRILLED AND EPOXIED A

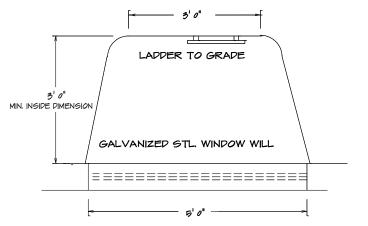
FRAMING MEMBER WHERE PROVIDED) WITH (3) 164

TYPICAL EGRESS WINDOW SECTION DETAIL

INSULATION NOTES: MIN. INSULATION SHALL BE PROVIDED ADJACENT TO HABITABLE AREAS AS EXTERIOR FRAMED WALLS (RIO OR RI3+5)

FORMWORK OPTIONS:

- I. PROVIDE VULCRAFT 2VLI (OR EQUAL CORRUGATED DECKING (SHORE AT MID-SPAN DURING CONSTRUCTION) or



PORCH SLAB (6'SPAN OR LESS)

3. #4 REBARS AT 12" O.C. EACH WAY

4. MIN. 1-1/2" OF CONTINUIUS BEARING

5. PORCH SLAB GREATER THEN 6' SHALL BE

TREATED AS AN ELEVATED GARAGE SLAB

. MAXIMUM SPAN = 6'

2. MINIMUM 6" THICKNESS

AT THE EDGES OF SLAB

16d NAILS 12" O.C. MIN (**) 2X6 LAYED FLAT 48" O.C. SPACING 2X6 STUD EXTERIOR TALL WALL SECTION

BSMT. SLAB

10' TRU 18' TALL UNINTERRUPTED WALLS

2X6 STUD

TO BE CONSTRUCTED WITH 2X6 STUDS 16" O.C. WITH STIFF BACK EVERY 48" O.C.

WITH THE 2018 IRC

HEIGHT OF 24" AND WIDTH OD 21"

GARAGE

GLAZING

EMERGENCY EGREGS PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MIN. OPENABLE AREA OF 5.7 SR. FT. WITH A MIN. OPENABLE

I. THE GARAGE FLOOR SHALL BE SLOPED TOWARD GARAGE DOORS

2. DOORS BETWEEN GARAGE AND DWELLING - MIN I 3/3" SOILD

CORE OR HONEY COMBED STEEL DOOR OR 20 MIN. RATED

3. GARAGE TO HAVE 5/8" TYPE X GYPSUM THROUGHTOUT

GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL

BE APPROVED SAFTY GLAZING MATERIALS: GLASS IN STORM DOORS, INDIVIDUAL

EDGE IS WITHIN 60" OF THE FLOOR: WALLS ENCLOSED STAIRWAYS AND LANDINGS

FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL

EDGE IS WITHIN A 24" ARCH OF THE DOOR IN CLOSED POSITION AND WHOSE BOTTEM

WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTEM OF THE STAIR: ENCLOSURES

EXCEEDING 9 SQ. FT. AND WHOSE BOTTEM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR

FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS: GLAZING IN FIXED OR OPENABLE PANELS

4. THE H-FRAM SHALL CONSIST OF 2X6 FRAMING

ELECTRICAL OUTLETS

. ALL OUTLETS TO BE ARC FAULT CIRCUIT-INTERRUPTER OR GROUND FAULT CIRCUIT-INTERRUPTER PROTECTED EXCEPT.. REFRIGERATOR, SINGLE OUTLET FOR SUMP PUMP

AND SINGLE OUTLET IN GARAGE FOR A FREEZER

2. ALL OUTLETS TO BE TAMPER RESISTANT

FRAMING NOTE

supervising station.

- I. ALL LUMBER SIZES ARE FOR #2 D-FIR-LARCH
- 2. ALL HEADERS TO BE MIN. (2) #2-2XI0 3. BLOCK CANTILEVERS, DOOR JAMBS, AND OVER BEAMS

SECTION R315 CARBON MONOXIDE ALARMS

For new construction, an approved carbon monoxide

dwelling units that have attached garages.

R315.2 Carbon monoxide detection systems. Carbon monoxide detection systems that include carbon

alarm shall be installed outside of each separate sleeping

area in the immediate vicinity of the bedrooms in dwelling units within which fuel-fired appliances are installed and in

monoxide detectors and audible notification appliances, i

nstalled and maintained in accordance with this section

for carbon monoxide alarms and NFPA 720, shall be permitted.

The carbon monoxide detectors shall be listed as complying with

UL 2075. Where a household carbon monoxide detection system

owned by the homeowner and shall be monitored by an approved

is installed, it shall become a permanent fixture of the occupancy,

R315.1 Carbon monoxide alarms.

- 4. ALL HEADRS TO BEAR ON MIN. OF (2) 2X4 STUDS 5. JOIST UNDER BEARING PARTITIONS SHALL BE DOUBLED
- AND COMPLY WITH IRC SEC. R502.4
- 6. WATER-RESISTIVE BARRIER SHALL BE PROVIDED OVER ALL EXTERIOR WALL PER IRC SEC. R703
- 7. WHERE CEILING JOIST ARE NOT INSTALLED CONNECTED TO THE RAFTERS AT THE TOP PLATE AND/OR WHERE CEILING JOIST ARE NOT INSTALLED IN THE LOWER 1/3 OF ATTIC SPACE
- RAFTER TIES SHALL BE INSTALLED IN THE LOWER 1/3 OF ATTIC SPACE 8. COLLAR TIES SHALL BE PROVIDED IN THE ATTIC SPACE IN THE UPPER 1/3 OF ATTIC
- 9. ROOF IS DESIGNED FOR 20 P.S.F. ROOF SNOW LOAD (MIN.) 0. MIN 20 YR. ASPHALT SHINGLES II. RAFTER TIES SHALL NOT BE REQUIED WHEN A STRUCTURAL

RIDGE HAS BEEN PROVIDED AND ADEQUATELY DESIGNED

(AS IN A FULLY VAULTED ROOM) SUCH SHALL BE NOTED AS

"STRUCTURAL" ON THE PLAN. PER IRC SEC. 802.3

FLOOR OVER HEATED SPACE RIO FLOOR OVER OUTSIDE AIR RIO ATTIC - BLOWN IN R49 CATHEDRAL CEILING

6" CONC. SLAB W/#4 BARS @ 12" O.C. BOTH-WAYS W/1" TO - SEALANT LAYER FOUNDATION WALL PER PLAN

ROOFING MATERIAL 240 LB ASPHALT SHINGLES

7/16" OSB SHEATHING

2-PLY 15# FELT

ICE BEARIER

self-adhering polymer

METAL EDGE

GUTTER -

IX8 FASCIA

SOFFIT BOARD -

2X4 NAILER-

IX4 TRIM BOARD —

2X6 SUB-FASCIA

SOFFIR VENTS 8' O.C.

7/16" OSB SHEATHING

W/ TYVEX HOUSE WRAP

7/16" OSB SHEATHING

UNDERNEATH

RIM JOIST

8" MIN.

TREATED SILL PLATE

WATERPROOF BELOW GRADE

FOR REBAR LOCATION AND SPACING

SEE FOUNDATION NOTES

8" CONC. WALL —

4" DRAIN TILE

CONC. FOOTING

TYPICAL WALL SECTION

SEE FOUNDATION NOTES

GRADE

SILL SEALER

W/ TYVEX HOUSE WRAP

UNDERNEATH

FAFTER ATTIC SPACE

R-40 INSULATION (MIN)

CEILING JOIST

1/2" GYP. BOARD

-1/2" GYP. BOARD

R-10 OR R13+5

INSULATION

- DOUBLE TOP PLATE

EXTERIOR SHEATHING

-2X4 STUD @ 16" O.C.

FLOOR JOIST-PER PLAN

<−− 1/2" GYP. BOARD

INSULATION

R-10 OR R13+5

- EXTERIOR SHEATHING

— 2X4 STUD @ 16" O.C.

FLOOR JOIST-PER PLAN

1/2" ANCHOR BOLTS

@ 36" O.C. (MIN. 7")

4" CONC. SLAB MIN

4" ROCK MIN

UNDISTURBED SOIL

3/4" T&G SUBFLOOR

PER PLAN

3/4" T&G SUBFLOOR

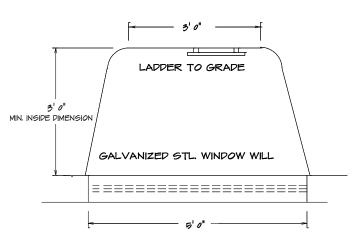
- BAFFLE FOR POSITIVE VENTILATION

PER PLAN

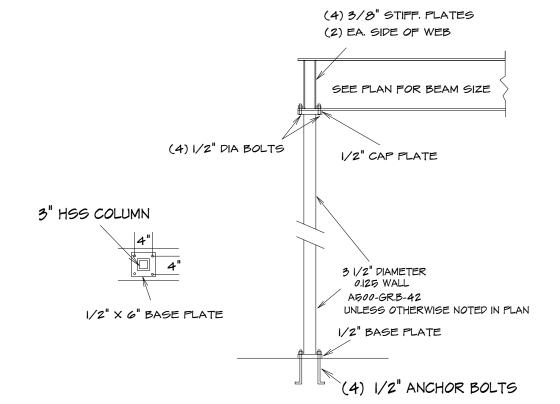
- 2. PLYWOOD FORMS WITH EXPANDABLE BAR JOIST

OR TEMPORARY FRAMED WALLS BY CONTRACTOR

OPTIONAL



TYPICAL EGRESS WINDOW PLAN SECTION



HSS COLUMN DETAIL

LOT 74 WOODSIDE RIDGE 341 NW AMBERSHAW DR. LEES SUMMIT MO. 64081

PLANS WERE DESIGNED AND REVIEWED IN ACCORDANCE

Foundation Wall Reinforcement Schedule - Table 2

Vertical reinforcement spa	icing 6	o pst s	OII	413		
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 -	- Minim	num Gr	ade 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

- 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.
- 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.
 4) 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.
- 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 inside corners
- 5) 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.
- 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).

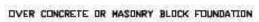
TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

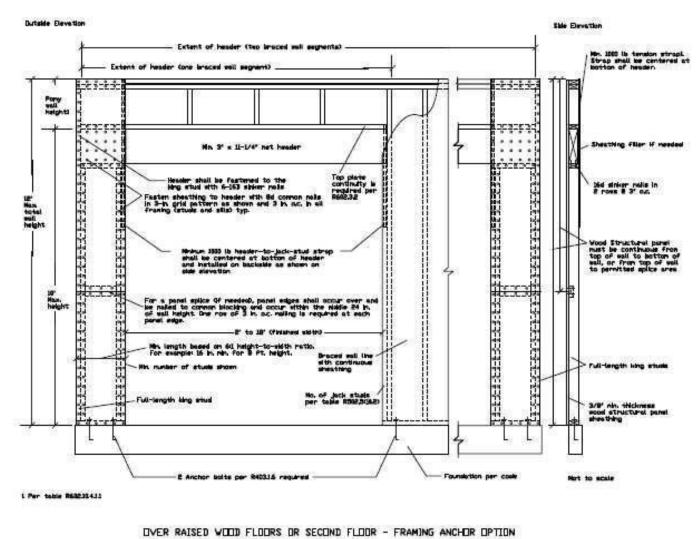
EM	ELEMENIS	FASTENER ^{a, b, c}	SPACING OF FASTENERS
	New 12302 93702 66 25070	Roof	
1	Blocking between joists or rafters to top plate, toe nail	3-8d (2 ¹ / ₂ " × 0.113")	857
2	Ceiling joists to plate, toe nail	3-8d (2 ¹ / ₂ " × 0.113")	R -
3	Ceiling joists not attached to parallel rafter, laps over partitions, face nail	3-10d)S
4	Collar tie to rafter, face nail or 1 ¹ /4" × 20 gage ridge strap	3-10d (3" × 0.128")	12 -
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")	%_
7.	NO.	Wall	248
7	Built-up studs-face nail Abutting studs at intersecting	10d (3" × 0.128") 16d (3 ¹ / ₂ " ×	24" o.c.
8	wall corners, face nail Built-up header, two pieces	0.135") 16d (3 ¹ / ₂ " ×	12" o.c. 16" o.c. along each
9	with 1/2" spacer	0.135")	edge
LO	Continued header, two pieces	16d (3 ¹ / ₂ " × 0.135")	16" o.c. along each edge
1	Continuous header to stud, toe nail	4-8d (2 ¹ / ₂ " × 0.113")	80-
.2	Double studs, face nail	10d (3" × 0.128")	24" o.c.
L3	Double top plates, face nail	10d (3" × 0.128")	24" o.c.
L4	Double top plates, minimum 24-inch offset of end joints, face nail in lapped area	8-16d (3 ¹ / ₂ " × 0.135")	8 —
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
18	Top or sole plate to stud, end nail	2-16d (3 ¹ / ₂ " × 0.135")	8—
L9	Top plates, laps at corners and intersections, face nail	2-10d (3" × 0.128")	1814
20	1" brace to each stud and plate, face nail	2-8d (2 ¹ / ₂ " × 0.113") 2 staples 1 ³ / ₄ " ×	72.722
21	1" × 6" sheathing to each bearing, face nail	2-8d (2 ¹ / ₂ " × 0.113") 2 staples 1 ³ / ₄ "	10—10—10
22	1" × 8" sheathing to each bearing, face nail	2-8d (2 ¹ / ₂ " × 0.113") 3 staples 1 ³ / ₄	B-32
23	Wider than 1" × 8" sheathing to each bearing, face nail	3-8d (2 ¹ / ₂ " × 0.113") 4 staples 1 ³ / ₄ "	11—15
		Floor	
24	Joist to sill or girder, toe nail	3-8d (2 ¹ / ₂ " × 0.113")	% −
25	Rim joist to top plate, toe nail (roof applications also)	8d (2 ¹ / ₂ " × 0.113")	6″ o.c.
26	Rim joist or blocking to sill plate, toe nail	8d (2 ¹ / ₂ " × 0.113")	6" o.c.
27	1" × 6" subfloor or less to each joist, face nail	2-8d (2 ¹ / ₂ " × 0.113") 2 staples 1 ³ / ₄ "	12-12-
28	2" subfloor to joist or girder, blind and face nail	2-16d (3 ¹ / ₂ " × 0.135")	85_
29	2" planks (plank & beam - floor & roof)	2-16d (3 ¹ / ₂ " × 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 " × 0.135")	At each joist or rafter

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

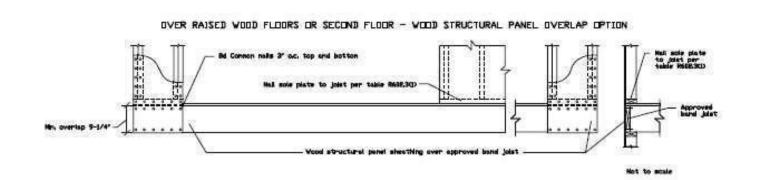
	DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER ^{b, c, e}	SPACING OF FASTENERS		
TEM			Edges (inches) ⁱ	Intermediate supports ^{c, e} (inches)	
W	ood structural panels, su	bfloor, roof and interior wa sheathing to fr		framing and particleboard wall	
32	3/8" - 1/2"	6d common (2" \times 0.113") nail (subfloor wall) 8d common ($2^1/_2$ " \times 0.131") nail (roof)	6	12 ^g	
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	
	8	Other wall shea	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	ictural 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.

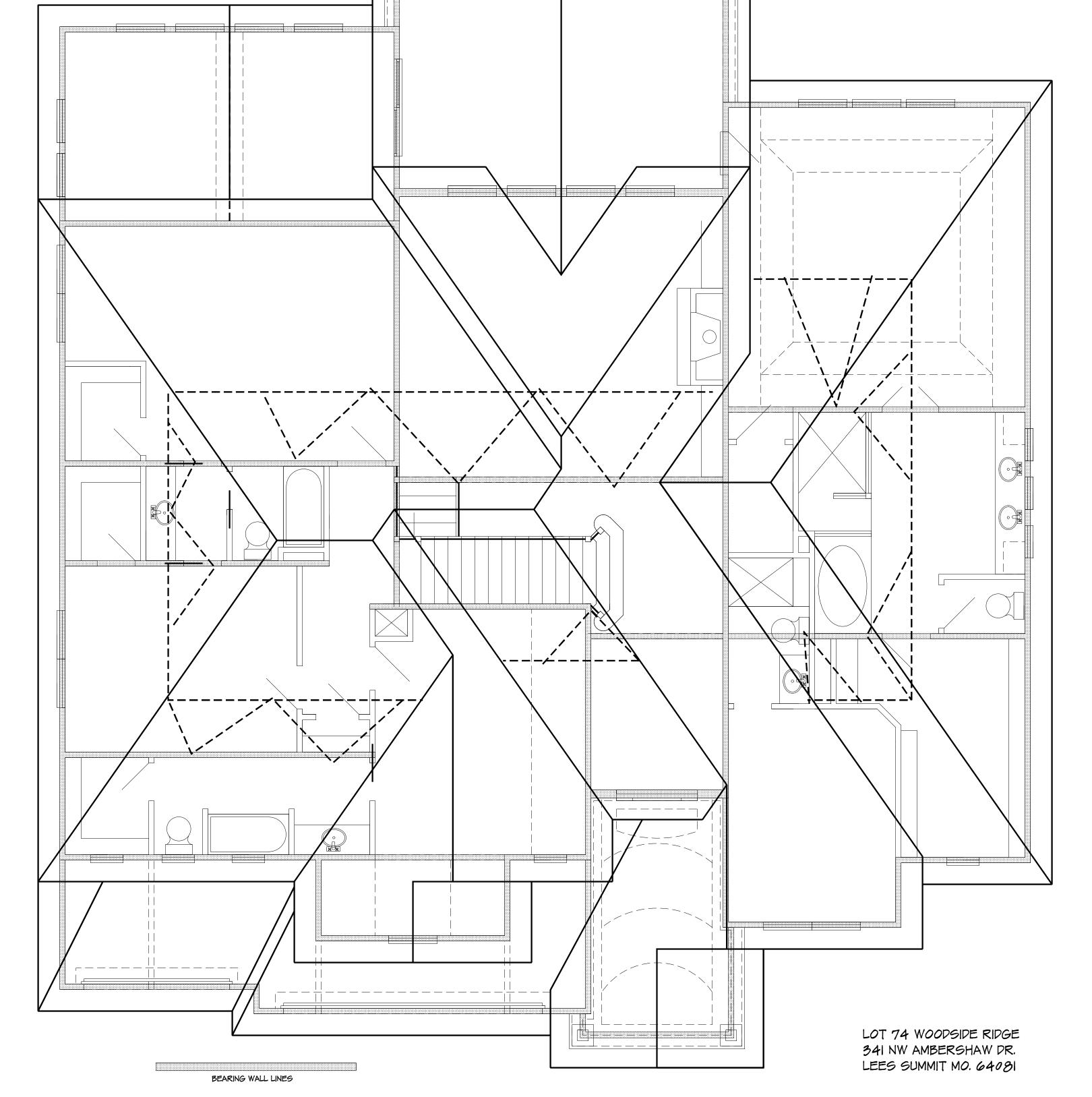




Franking sectors 676 to † 676 to — National plants to joint Approved National plant sheating over approved band joint Not to scale



CF-PF WALL BRACING SECTION



ROOF ELEVATION

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

PLANS WERE DESIGNED AND REVIEWED IN ACCORDANCE WITH THE 2018 IRC NOTE... HIP RIDGE FOR THE MAIN ROOF AS:

2X8 FOR UNBRACED LENGTH UP TO 0'0"

2X10 FOR UNBRACED LENGTH UP TO 10'0"

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

2XI2 FOR UNBRACED LENGTH UP TO 12'0"

PURLING RAFTERS TO BEARING WALL LINES

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

CONNECT RAFTERS TO RIDGE, VALLEY, AND HIP RIDGE
WITH (4) IGG GALV. NAILS

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

