

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/28/2021

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.

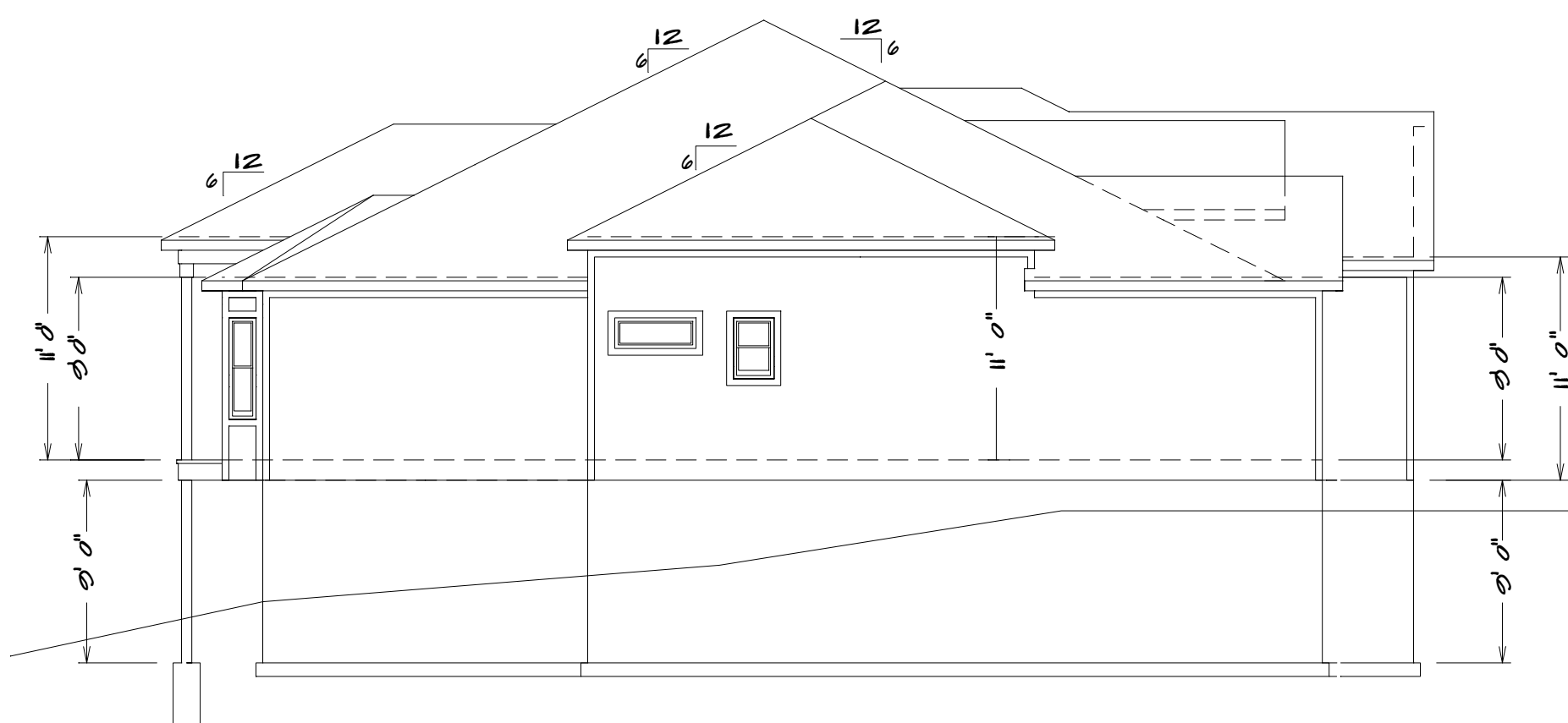
FRONT ELEVATION

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.

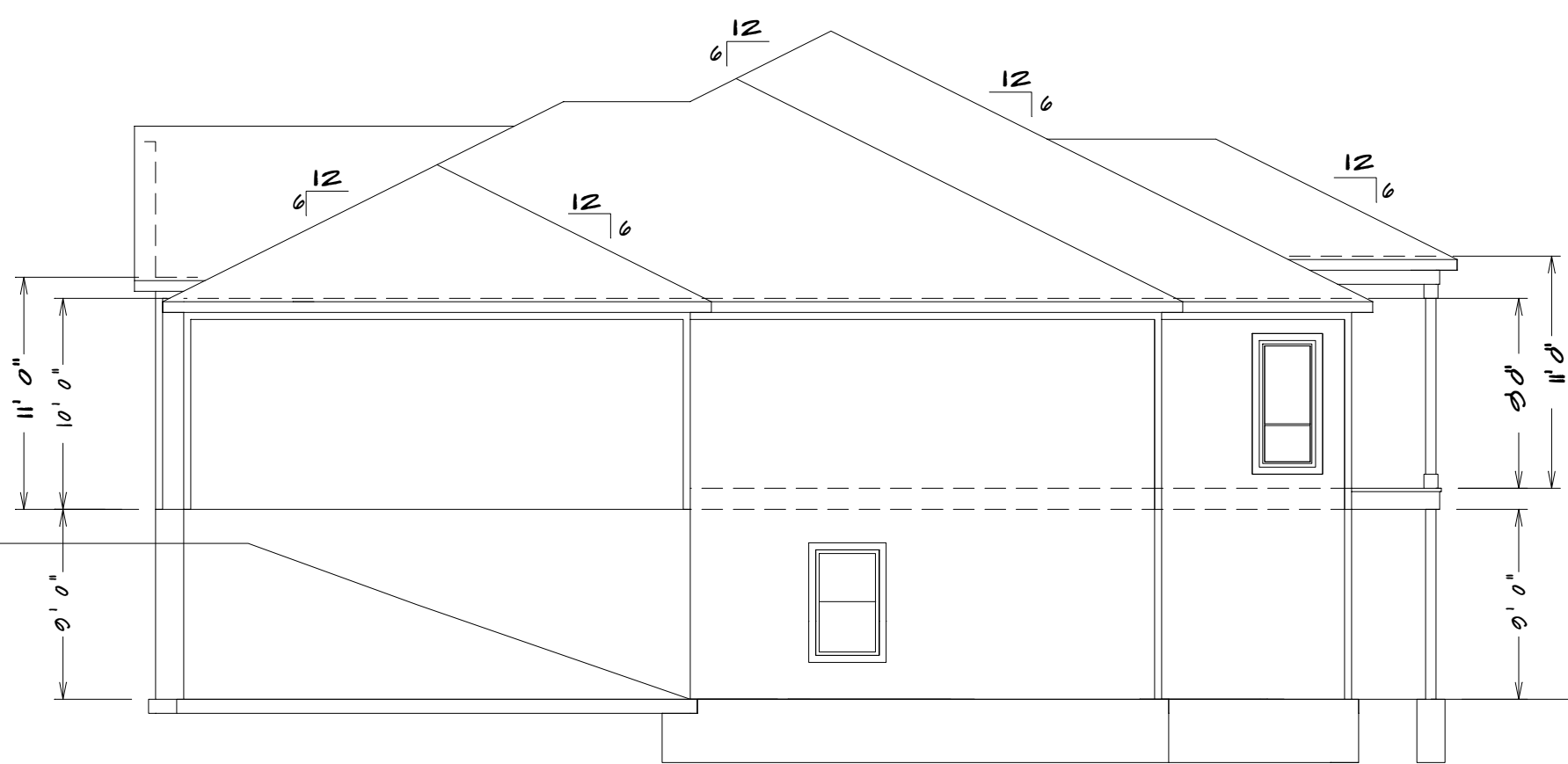
LOT 12 WHISPERING WOODS
1820 SW RIVER RUN DRIVE
LEES SUMMIT, MO.

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



LEFT ELEVATION

1/8" = 1'0"



RIGHT ELEVATION

1/8" = 1'0"



REAR ELEVATION

1/8" = 1'0"



SQUARE FOOTAGE

LIVING AREA
FIRST FLOOR = 1080
BASEMENT = 1327
UNFINISHED AREA
STORAGE BASEMENT = 941
GARAGE = 822
STORAGE UNDER STOOP = 48
STORAGE UNDER GARAGE = 769

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PAD LOCATIONS, AND COLUMN SIZES. BUILDER/CONTRACTOR IS RESPONSIBLE TO CHECK FOR
CONFLICTS WITH EXISTING UTILITIES. BUILDER/CONTRACTOR IS RESPONSIBLE TO OBTAIN
NECESSARY PERMITS AND ACCEPTS ALL RESPONSIBILITY FOR LOT PLACEMENT, SETBACKS, AND PLANS.
BUILDER/CONTRACTOR AND HOME OWNER ACCEPTS RESPONSIBILITY FOR ANY AND ALL
COPYRIGHT INFRINGEMENTS OR RESUBMITTANCES TO OTHER COPYRIGHTED PLANS.
BUILDER/CONTRACTOR ACCEPTS RESPONSIBILITY FOR ANY ON-SITE CHANGES MADE
TO STRUCTURE.

HOME BUYER:
BUILDER:
SUB-DIVISION:

DATE DRAWN:
DATE REVISED:
DESIGNER:

PHONE:
PHONE:
LOT NO.

PLAN NO.
DD-7155
FILE NAME:
7155.FRNT

SHEET NO.
1
APPROX. SQ.FT.



SEE ELEVATION FOR
WALL HEIGHTS

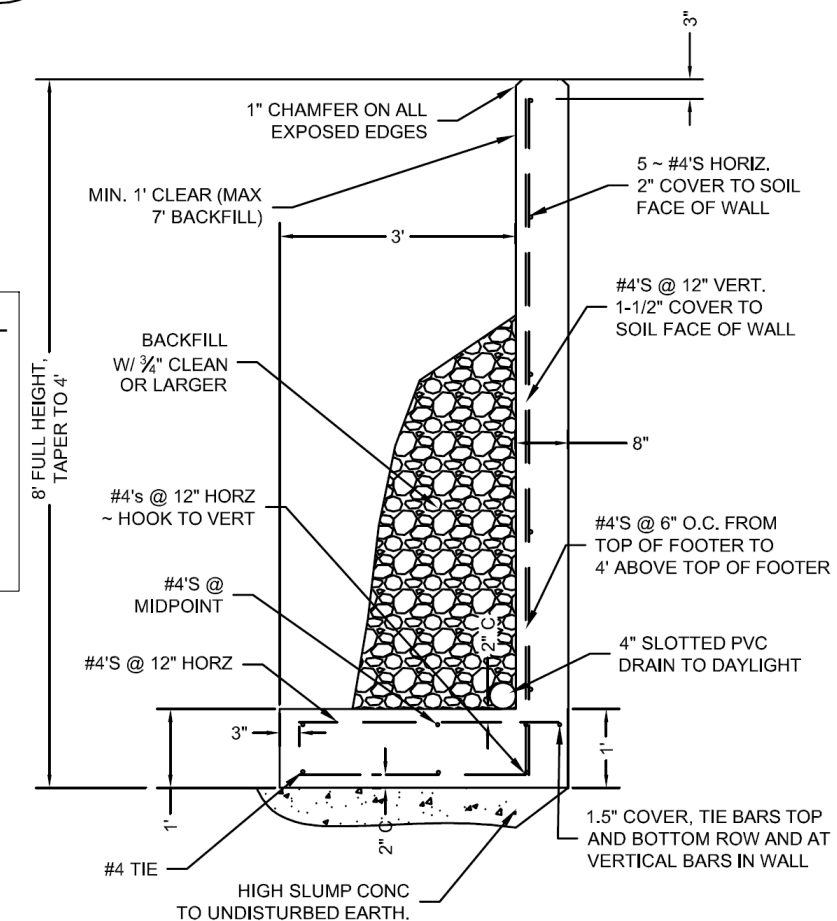
NOTE... ELECTRICAL SERVICE
TO BE 200 AMP.

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

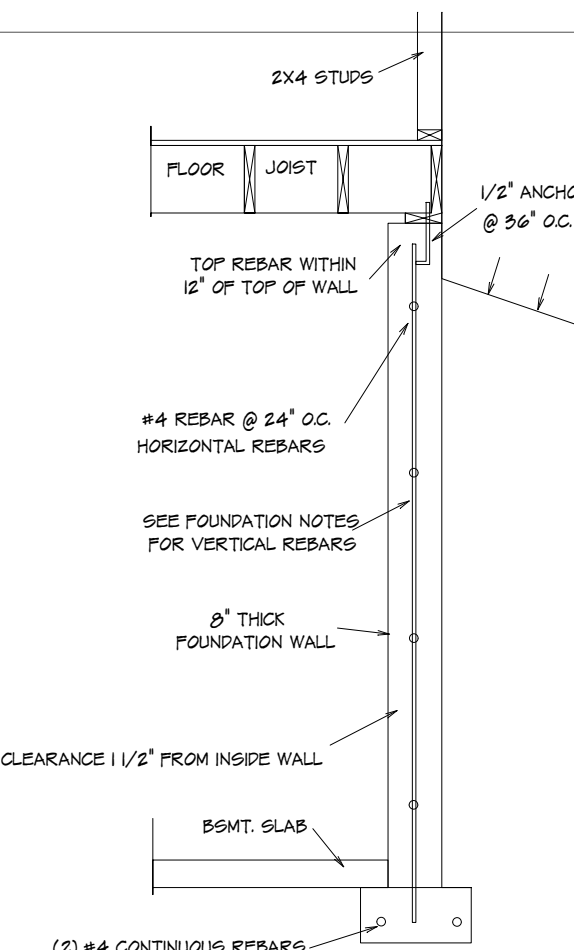
S.D.
 = SMOKE DETECTOR

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

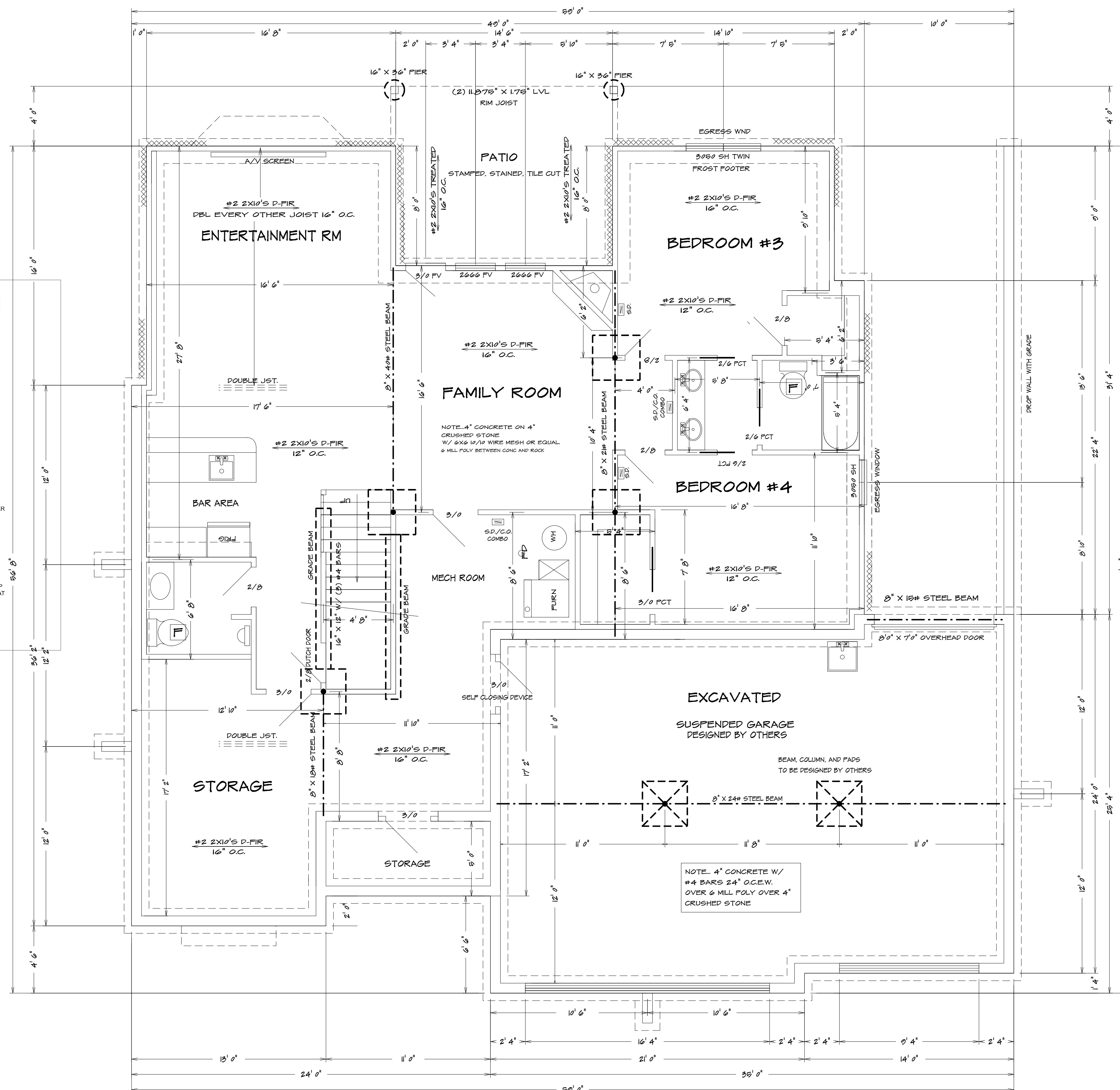
1 RETAINING WALL SECTION
S1.0 SCALE: 1/2" = 1'



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



TYPICAL FOUNDATION WALL



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

BASEMENT PLAN

HOME BUYER:	PHONE:	DATE DRAWN:	PLAN NO.	SHEET NO.
BUILDER:	PHONE:	DATE REVISED:	PP-7152	2
SUB-DIVISION:	LOT NO.	DESIGNER:	FILE NAME:	APPROX. SQ.FT.
			7152 55MT	

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DD-7155

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 30' R.O.	(2) #2 D-FIR 2X10'S
WINDOWS/DOORS 30' UP TO 72' R.O.	(2) #2 D-FIR 2X10'S W/1/2" GLUE FLY
WINDOWS/DOORS 72' UP TO 26' R.O.	(2) 2 1/2" LVL
8'0" GARAGE DOORS W/CEILING & ROOF LOAD	(2) 2 1/2" LVL
8'0" GARAGE DOORS W/CEILING & ROOF LOAD	(2) 2 1/2" LVL
8'0" GARAGE DOORS W/SECOND FLOOR	(2) 2 1/2" LVL
8'0" GARAGE DOORS W/SECOND FLOOR	(2) 11 7/8" LVL
16'0" GARAGE DOOR W/NO SECOND FLOOR	(2) 11 7/8" LVL
16'0" GARAGE DOORS W/SECOND FLOOR	(2) 14" LVL
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 (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 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.

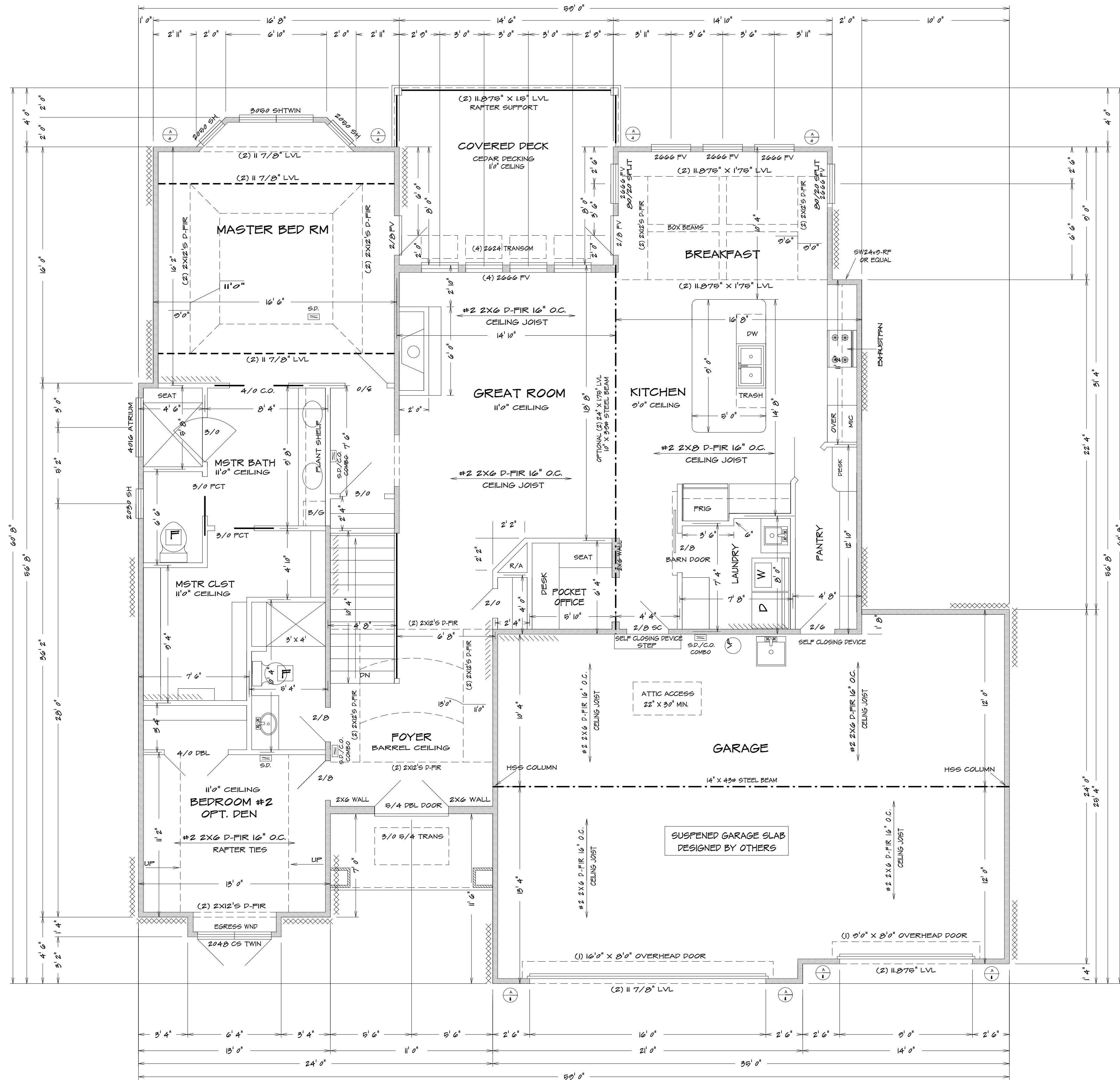
R312.2.2 Window opening control devices.

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.

Exceptions:

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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FIRST FLOOR PLAN
1/4" = 1'0"

DD-7155

HOME BUYER:	PHONE:	DATE DRAWN:	PLAN NO.	SHEET NO.
BUILDER:	PHONE:	DATE REVISED:	DD-7155	3
SUB-DIVISION:	LOT NO.	DESIGNER:	FILE NAME:	APPROX. SQ.FT.
			7155 FLR1	

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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:

- 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.
- 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.
 - 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 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.
- 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).

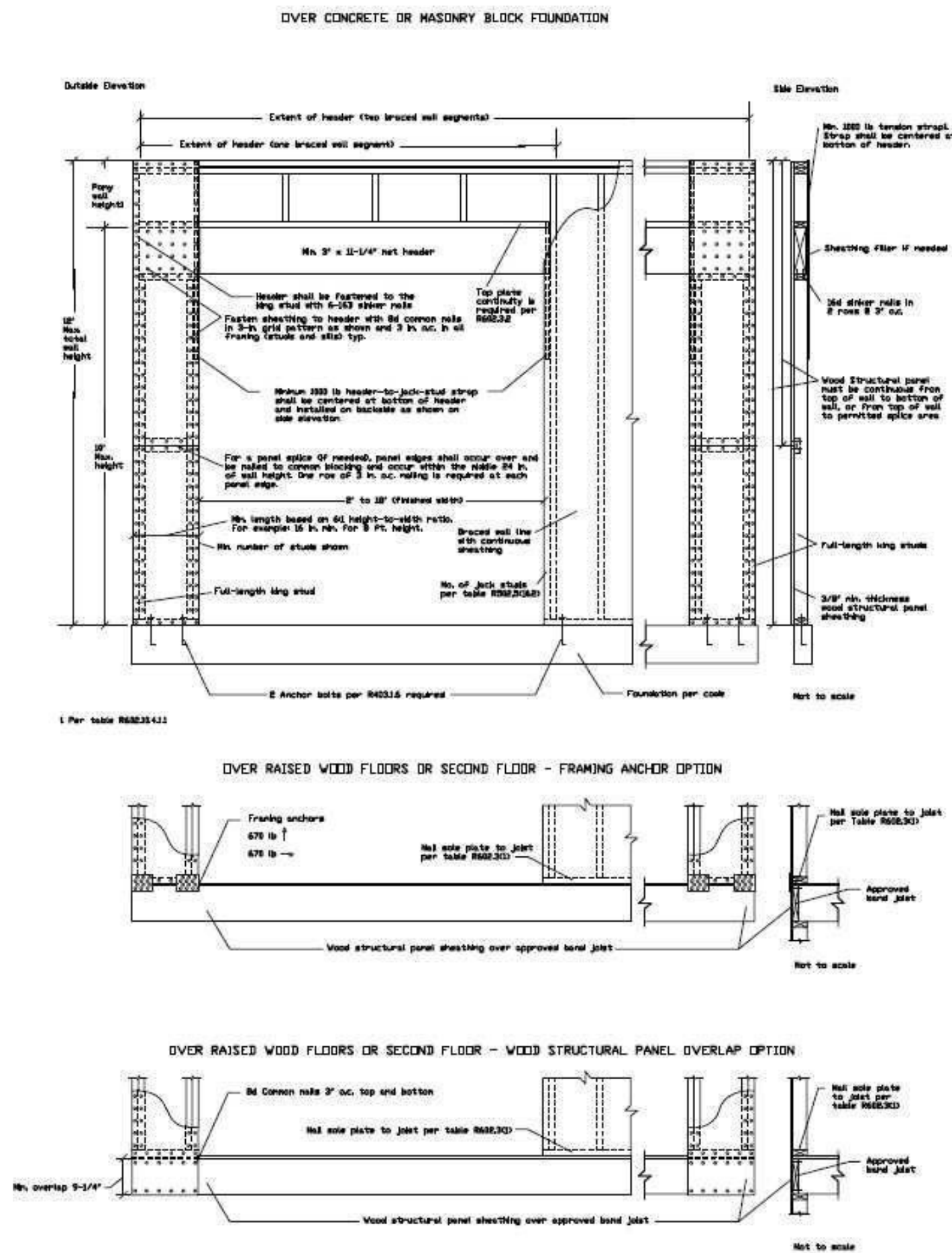
TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS \times \times \times	SPACING OF FASTENERS
Roof			
1	Blocking between joists or rafters to top plate, toe nail	3-8d ($2\frac{1}{2}'' \times 0.113''$)	—
2	Ceiling joists to plate, toe nail	3-8d ($2\frac{1}{2}'' \times 0.113''$)	—
3	Ceiling joists not attached to parallel rafter, laps over partitions, face nail	3-10d	—
4	Collar tie to rafter, face nail or $1\frac{1}{4}'' \times 20$ gage ridge nail	3-10d ($3'' \times 0.128''$)	—
5	Rafter or roof truss to plate, toe nail	3-16d box nails ($3\frac{1}{2}'' \times 0.135''$) or 3-10d common nails ($3'' \times 0.148''$)	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	3-16d ($3\frac{1}{2}'' \times 0.135''$) or 3-10d ($3'' \times 0.135''$)	—
Wall			
7	Built-up studs-face nail	10d ($3'' \times 0.128''$)	24" o.c.
8	Abutting studs at intersecting wall corners, face nail	16d ($3\frac{1}{2}'' \times 0.135''$)	12" o.c.
9	Built-up header, two pieces with $1\frac{1}{2}''$ spacer	16d ($3\frac{1}{2}'' \times 0.135''$)	16" o.c. along each edge
10	Continued header, two pieces	16d ($3\frac{1}{2}'' \times 0.135''$)	16" o.c. along each edge
11	Continuous header to stud, nail	4-8d ($2\frac{1}{2}'' \times 0.113''$)	—
12	Double studs, face nail	10d ($3'' \times 0.128''$)	24" o.c.
13	Double top plates, face nail	10d ($3'' \times 0.128''$)	24" o.c.
14	Double top plates, minimum 24-inch offset of end joints, face nail in lapped ends	8-16d ($3\frac{1}{2}'' \times 0.135''$)	—
15	Sole plate to joist or blocking, face nail	16d ($3\frac{1}{2}'' \times 0.135''$)	16" o.c.
16	Sole plate to joist or blocking at braced wall panels	3-16d ($3\frac{1}{2}'' \times 0.135''$)	16" o.c.
17	Stud to sole plate, toe nail	3-8d ($2\frac{1}{2}'' \times 0.113''$) or 3-16d ($3\frac{1}{2}'' \times 0.135''$)	—
18	Top or sole plate to stud, end nail	2-16d ($3\frac{1}{2}'' \times 0.135''$)	—
19	Top plates, laps at corners and intersections, face nail	2-10d ($3'' \times 0.128''$)	—
20	1" brace to each stud and plate, face nail	2-8d ($2\frac{1}{2}'' \times 0.113''$)	—
21	1" \times 6" sheathing to each bearing, face nail	2-8d ($2\frac{1}{2}'' \times 0.113''$) 2 staples $1\frac{3}{4}''$	—
22	1" \times 8" sheathing to each bearing, face nail	2-8d ($2\frac{1}{2}'' \times 0.113''$) 3 staples $1\frac{3}{4}''$	—
23	Wider than 1" \times 8" sheathing to each bearing, face nail	3-8d ($2\frac{1}{2}'' \times 0.113''$) 4 staples $1\frac{3}{4}''$	—
Floor			
24	Joist to sill or girder, toe nail	3-8d ($2\frac{1}{2}'' \times 0.113''$)	—
25	Rim joist to top plate, toe nail (roof applications also)	8d ($2\frac{1}{2}'' \times 0.113''$)	6" o.c.
26	Rim joist or blocking to sill plate, toe nail	8d ($2\frac{1}{2}'' \times 0.113''$)	6" o.c.
27	1" \times 6" subfloor or less to each joist, face nail	2-8d ($2\frac{1}{2}'' \times 0.113''$) 2 staples $1\frac{3}{4}''$	—
28	2" subfloor to joist or girder, blind and face nail	2-16d ($3\frac{1}{2}'' \times 0.135''$)	—
29	2" planks (plank & beam - floor & roof)	2-16d ($3\frac{1}{2}'' \times 0.135''$)	at each bearing
30	Built-up girders and beams, 2-inch lumber layers	10d ($3'' \times 0.128''$)	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 ($3\frac{1}{2}'' \times 0.135''$)	At each joist or rafter

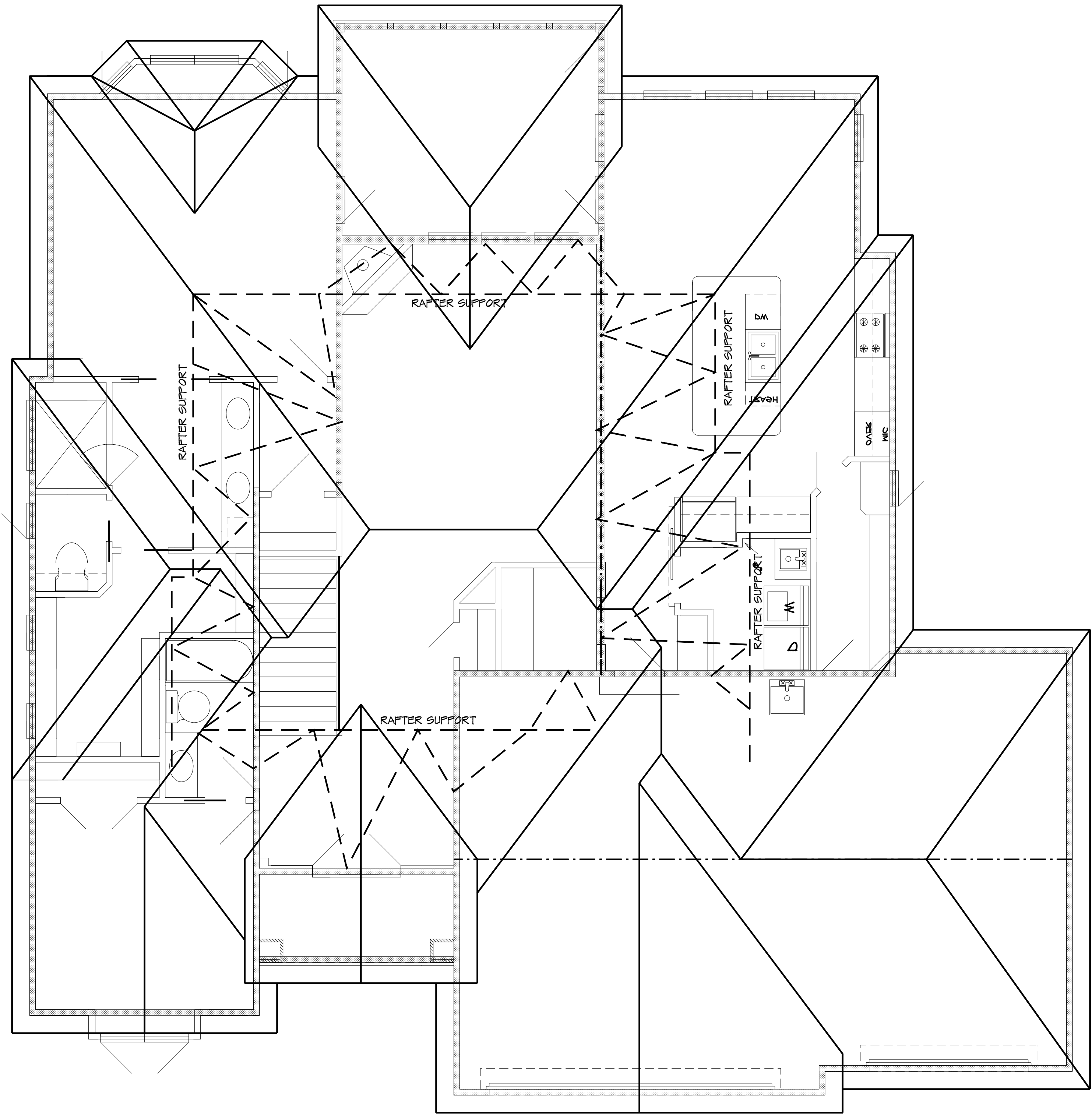
TABLE R602.3(1)—continued FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER ^a	SPACING OF FASTENERS	
			Edges (inches) ^b	Intermediate supports ^c (inches)
Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing				
32	$3/8"$ - $1/2"$	6d common ($2" \times 0.113"$) nail (subfloor wall) 6d common ($2 1/2" \times 0.131"$) nail (roof) ^f	6	12 ^g
33	$19/32"$ - $1"$	8d common nail ($2 1/2" \times 0.131"$) 10d common ($3" \times 0.148"$) nail or 8d ($2 1/2" \times 0.131"$) deformed nail	6	12 ^g
34	$1 1/8"$ - $1 1/4"$		6	12
Other wall sheathing^h				
35	$1/2"$ structural cellulose fiberboard sheathing	$1 1/2"$ galvanized roofing nail, $7/16"$ crown or $1"$ crown staple 16 ga., $1 1/2"$ 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 ⁱ	$1 1/2"$ galvanized roofing nail; staple galvanized, $1 1/2"$ long; $1 1/4"$ screws, Type W or S	7	7
38	$5/8"$ gypsum sheathing ^j	$1 3/4"$ galvanized roofing nail; staple galvanized, $1 5/8"$ long; $1 5/8"$ screws, Type W or S		7
A	Wood structural panels, combination subfloor underlayment to framing			
39	$3/4"$ and less	6d deformed ($2" \times 0.120"$) nail or 6d common ($2 1/2" \times 0.131"$) nail	6	12
40	$7/8"$ - $1"$	8d common ($2 1/2" \times 0.131"$) nail or 6d deformed ($2 1/2" \times 0.120"$) nail	6	12
41	$1 1/8"$ - $1 1/4"$	10d common ($3" \times 0.148"$) nail or 6d deformed ($2 1/2" \times 0.120"$) 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.



CF-PF WALL BRACING SECTION



BEARING WALL LINES

ROOF ELEVATION

$1/4" = 1'0"$

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

NOTE... HIP RIDGE FOR THE MAIN ROOF AS:
2X8 FOR UNBRACED LENGTH UP TO 9'0"
2X10 FOR UNBRACED LENGTH UP TO 10'0"
2X12 FOR UNBRACED LENGTH UP TO 12'0"

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
WITH (4) 16d GALV. NAILS

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

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SUB-DIVISION:	LOT NO.	DESIGNER:	FILE NAME:	APPROX. SQ.FT.
			7109 SEC2	

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