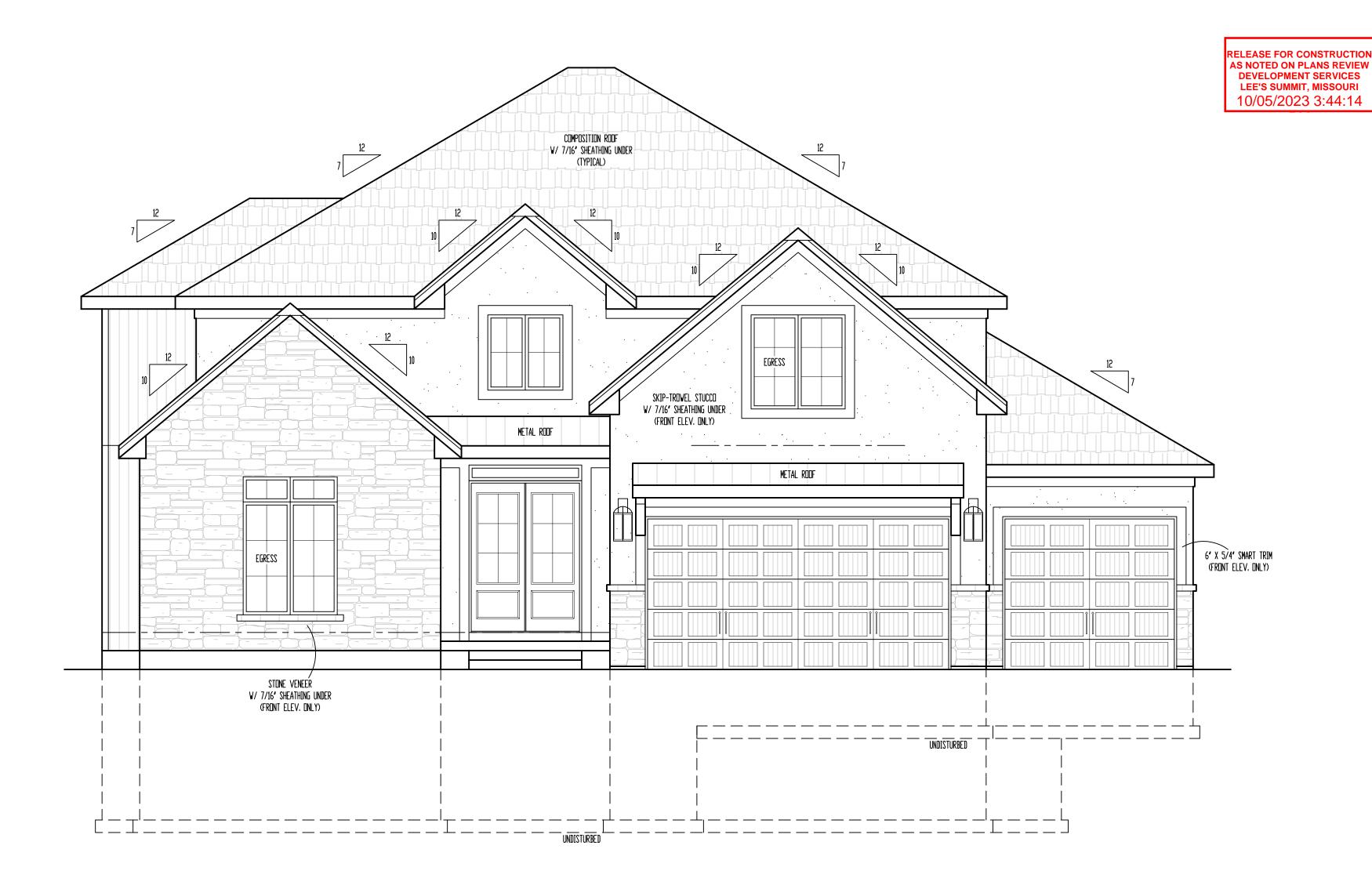
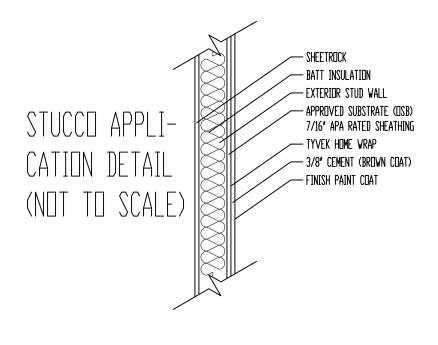
NOTE: GOVERNING CODES & GENERAL CONTRACTOR'S WRITTEN SPECIFICATIONS TAKE PRECEDENCE OVER THESE PLANS.



FRONT ELEVATION

SCALE: 1/4" = 1'-0"



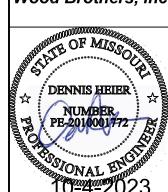
and design of this plan. However, the construction from these plans should no struction professional, architect or engine consultation and supervision, Viewpoint ume no responsibility for any damages, siencies, omissions or error in the design om those illustrated on this plan. Designe is for use on your specific site. Consult ye plans for your specific site and applications.

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begotten son, that whosoever believeth in him should not perish, but have everlasting life"

RESIDENTIAL DESIGN LLC
Office: (816) 554-0400 Email: admin@viewpointdesign.net

Design Title:
The
DURANGO
Site Description:
Lot 75,
Summit View
Farms 3rd Plat
Street Address:
2302 SW Serena Pl.,
Lee's Summit,
Missouri
General Contractor:
Wood Brothers, Inc.

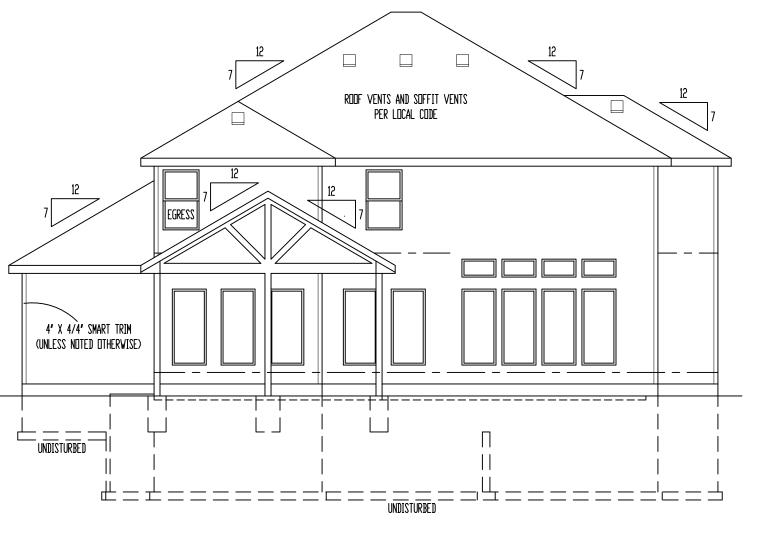


Date: 7 - 26 - AD 2023 Rev. 1: 9 - 14 - AD 2023 Rev. 2: Rev. 3:

Sheet Title:
FRONT
ELEVATION



REAR ELEVATION SCALE: 1/8" = 1'-0"



LEFT ELEVATION SCALE: 1/8" = 1'-0"

ELEVATIONS:

SMART PANEL WOOD GRAIN SIDING ON SIDE AND REAR ELEVATIONS
COMPOSITION ROOF SHINGLES
LOCATE ROOF AND SOFFIT VENTS PER CODE
ADJUST FOUNDATION TO GRADE

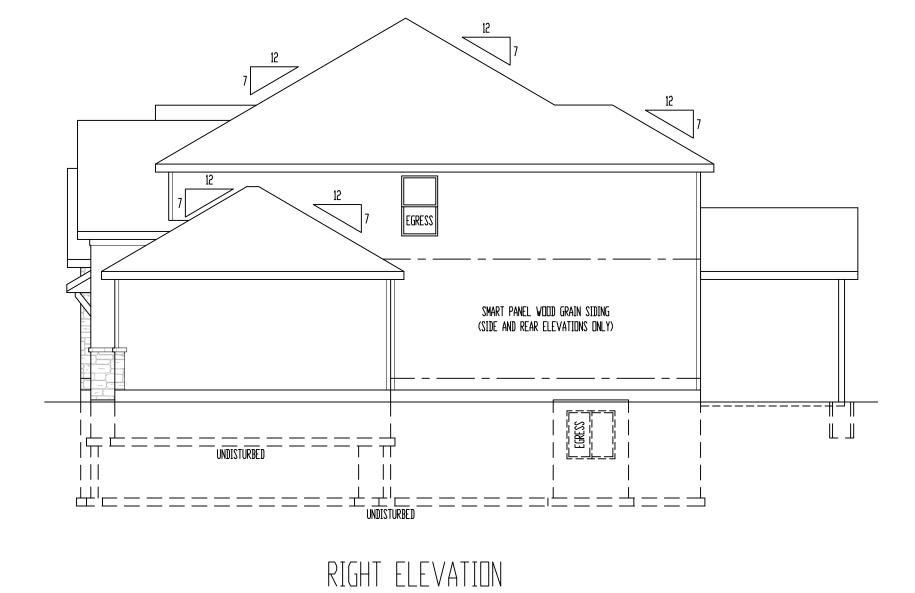
OPTIONAL DECK:

DECK CONSTRUCTION TO COMPLY WITH MUNICIPALITY'S

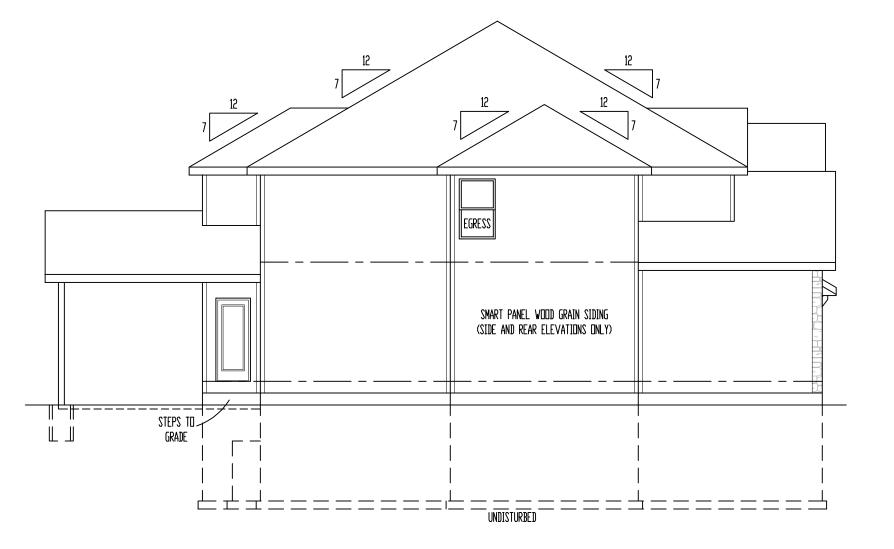
RESIDENTIAL DECK STANDARDS
2' X 10' #2 TTD. @ 16' D.C. FLOOR JOISTS (MAX. SPAN: 14'-0')
2' X 6' CEDAR DECKING

6' X 6' CEDAR/TTD. POSTS 2' X 2' CEDAR SPINDLES

2" X 6" CEDAR TOP RAIL STAIRS PER PLAN



SCALE: 1/8" = 1'-0"



DENNIS HEIER NUMBER PE-2010001772

Design Title: **The**

DURANGO

Site Description: Lot 75,

Summit View
Farms 3rd Plat
Street Address:
2302 SW Serena Pl.,

Lee's Summit, Missouri

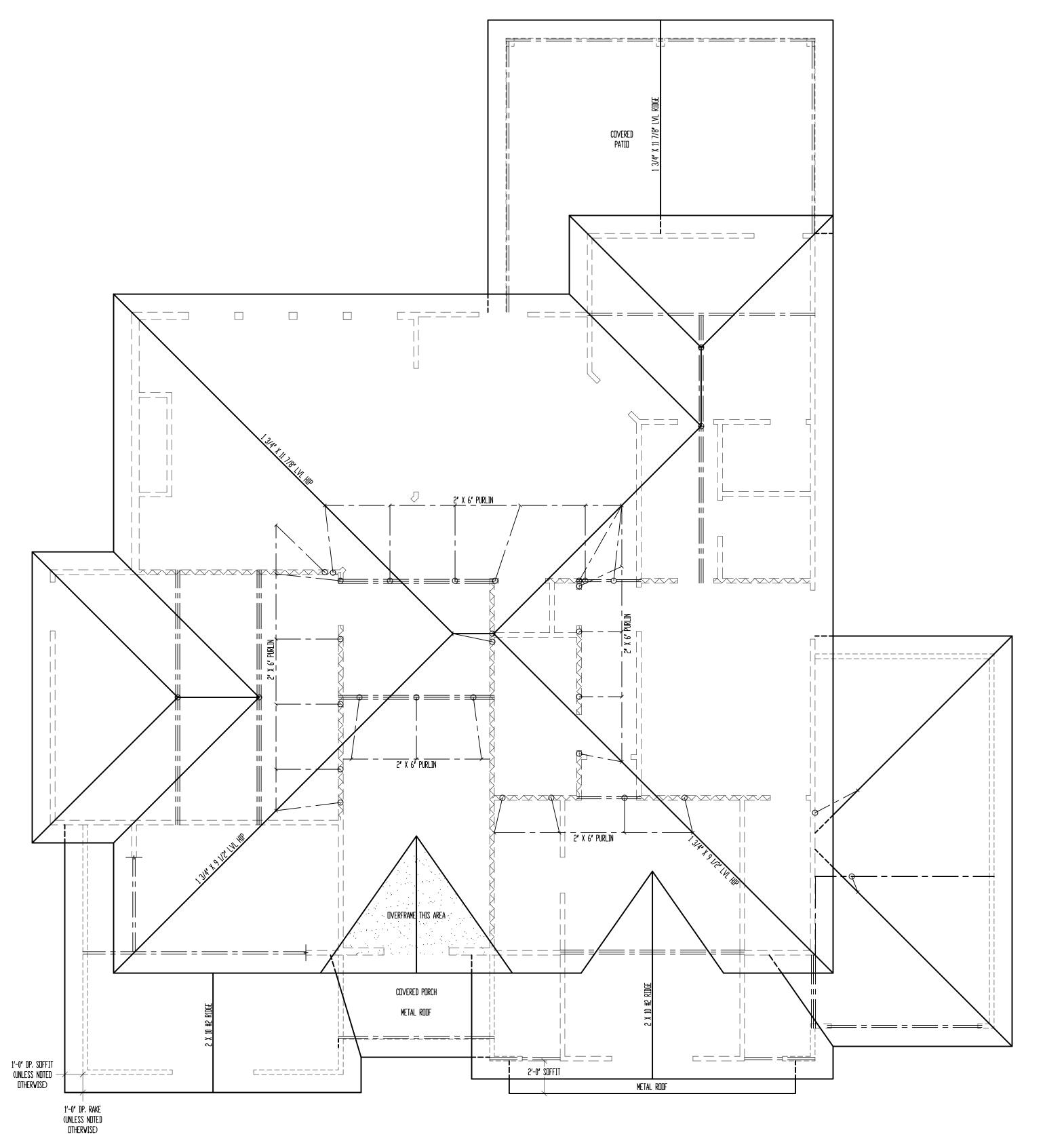
General Contractor:

Wood Brothers, Inc.

Date: 7 - 26 - AD 2023 Rev. 1: 9 - 14 - AD 2023 Rev. 2: Rev. 3:

Sheet Title: SIDES & REAR **ELEVATIONS**





ROOF

SCALE: 1/4" = 1'-0"

* RAFTERS (HEM-FIR, DOUG-FIR, OR EQUAL):

	RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN	
	#2-2x6	@24 * □.C.	11'-7 "	
$\rangle\rangle\rangle$	#2-2x6	016 ′ □.C.	14′-2 ′	/ ((
	#2-2x8	@24 * □.C.	14′-8 ′	
	#2-2x8	016 ′ □.C.	17'-11 '	
	#2-2x10	@24 * □.C.	17′-10 ′	
	#2-2x10	016 ′ □.C.	21′-11 ′	
	NOTE, CON	MINITHUM ALL	DIVE FOR A DAFTER DEFLICATION	TOT 1 /4

NOTE: CODE MINIMUM ALLOWS FOR A RAFTER DEFLECTION OF L/180 TOTAL LOAD

RAFTERS SPACING MAX HORIZONTAL CLEARSPAN #2-2x6 **@24"** [].C. #2-2x6 **@16'** D.C. 9'-9**'** #2-2x8 **@24"** D.C. #2-2x8 **@16'** D.C. #2-2x10 **@24'** D.C. 12'-9**'** 14'-3**'** #2-2x10 **@16"** D.C.

- #2- 2X8 UP TO 10/12 PITCH

* ALL HIPS & VALLEYS ARE: (UNLESS OTHERWISE NOTED) - #2- 2X8 UP TO 10/12 PITCH

- #2- 2X10 OVER 10/12 PITCH * PURLINS ARE 2X6 MIN.

45 DEGREE ANGLE WITH THE HURIZUNTAL

- ALL PURLINS STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH OF 8'-0' - PURLINS STRUTS SHALL BE CONSTRUCTED IN A 'T' CONFIGURATION AND PER THE FOLLOWING CHART:

PURLIN STRUT	MAX PURLIN STRUT LENGT
(2) 2x4	8′-0 ′
(1) 2x4 & (1) 2x6	12'-0 '
(1) 2x6 & (1) 2x8	20'-0 '
(2) 2x6 & (1) 2x8	30′-0 ″
CONSULT ARCH,/ENGR. >	30′-0 ′

* RIDGE BRACES ARE SAME AS PURLIN BRACES-SPACING, SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NOTES ABOVE) * HIP & VALLEY BRACES ARE SAME AS PURLIN SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NOTES ABOVE)

* VERTICAL BRACE IF DOT IS UNDER HIP OR VALLEY * SLASH IS TOP END OF BRACE (/),

*---- DENOTES ROOF BRACE

*---- DENOTES BEARING STRUCTURE

*ALL RAFTERS SHALL BE 2' X 6" #2 @ 16" D.C., UNLESS NOTED OTHERWISE.

SEE DETAIL 7/S3.2 FOR ALTERNATE RAFTER BEARING DETAIL WHEN RAFTERS ARE REQUIRED TO BEAR HIGHER THAN THE WALL DOUBLE TOP PLATE.

FLASHING NOTE: DRIP EDGE, VALLEYS AND FLASHINGS TO BE METAL CLAD.

ROOF NOTES: ROOF DESIGNED FOR LIGHT ROOF COVERING 30psf TOTAL LOAD [10psf DL, 20psf LL (SL)]

SEE SPAN CHARTS BELOW

	CODE MINI		
	RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
	#2-2x6	@24" D.C.	11'-7 "
>>>	#2-2x6	016 ′ □.C.	14′-2 ′
	#2-2x8	@24 * D.C.	14'-8 '
	#2-2x8	016 ′ □.C.	17'-11 '
	#2-2x10	@24" D.C.	17′-10 ′
	#2-2x10	016 ′ □.C.	21′-11 ′
	NOTE, CON	LIV MINTHIN VII	U/6 CUD Y DYCLED DECLECTION

DEFLECTION = L/360 LIVE LOAD, L/240 TOTAL LOAD

* VAULTS TO BE 2x10 DEPTH * RIDGE BOARDS ARE: (UNLESS OTHERWISE NOTED)

- #2- 2X10 OVER 10/12 PITCH

- PURLIN STRUTS ARE AT 4'-0" D.C.

- PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS THAN A

PURLIN STRUT	MAX PURLIN STRUT LENGTH
(2) 2x4	8′-0 ′
(1) 2x4 & (1) 2x6	12'-0 '
(1) 2x6 & (1) 2x8	20'-0 '
(2) 2x6 & (1) 2x8	30'-0 '
CONSULT ARCH./ENGR. >	30'-0 '

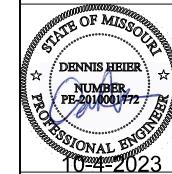
DOT IS BOTTOM OF BRACE (o). * ~ DENOTES BEARING WALL

*---- DENOTES PURLIN

Design Title: The **DURANGO** Site Description: Lot 75,

Summit View Farms 3rd Plat Street Address: 2302 SW Serena Pl., Lee's Summit,

Missouri General Contractor: Wood Brothers, Inc.

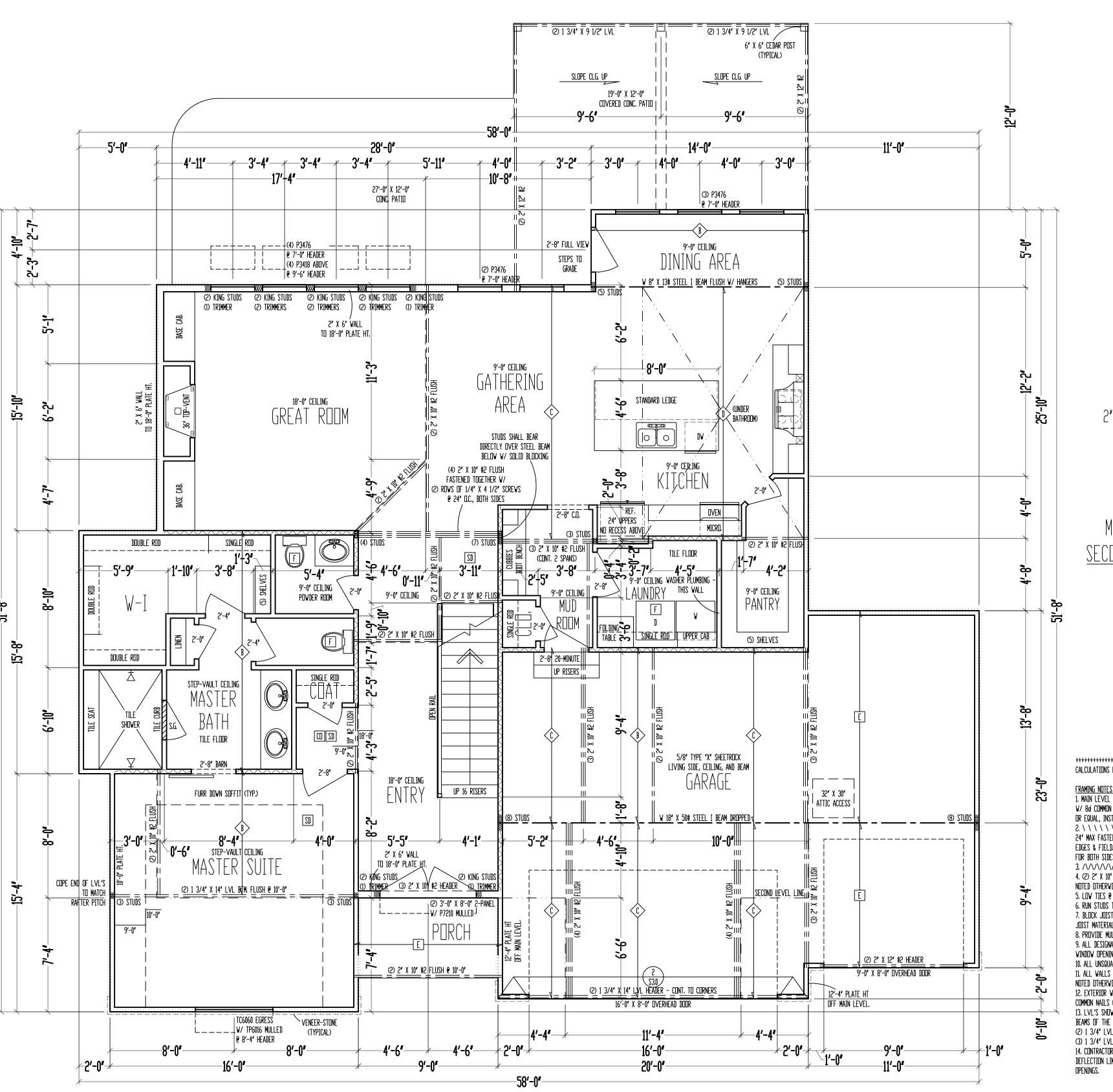


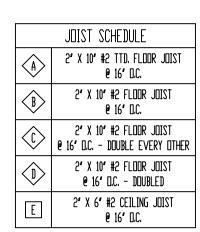
Date: <u>7 - 26 - AD 2023</u> Rev. 1: <u>9 - 14 - AD 2023</u> Rev. 2: Rev 3

Sheet Title: **ROOF PLAN**

Sheet No.:







9'-0" CEILING 2" X 10" FLOOR SYSTEM ABOVE MAIN LEVEL SCALE: 1/4" = 1'-0"

MAIN LEVEL: 1708 SQ, FT TOTAL: 3062 SQ. FT

> GARAGE: 695 SQ. FT. COV. OUT/LIV: 253 SQ. FT. UNFIN. BASEMENT: 1448 SQ. FT.

CALCULATIONS ON SHEET S1.1.

1. MAIN LEVEL EXTERIOR WALLS SHALL BE SHEATHED W/ 7/16" D.S.B. A.P.A. PANELS W/ 8d CDMMON NAILS @ 6' D.C. AT EDGES & @ 12' D.C. IN THE FIELD. SMART PANEL, OR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

2. \ \ \ \ \ \ \ \ = G.B.: 1/2" MIN. GYPSUM BOARD OVER STUDS SPACED 24" MAX FASTENED W/ NO. 6 - 1 1/4" TYPE W OR S DRYWALL SCREWS @ 7" D.C. EDGES & FIELD. (MIN. 8'-0' SECTIONS ONE SIDE OF WALL (OR) MIN. 4'-0' SECTION

3. /\/\/\/\/\/\ = LOAD BEARING INTERIOR WALL. 4. (2) 2' X 10' #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.

5. LOW TIES @ 4'-0" D.C. (TYPICAL) 6. RUN STUDS THE FULL HEIGHT OF RAISED PLATE WALLS. 7. BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST MATERIAL (NOT REQUIRED WITH I-JOISTS).

8. PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELOW ALL BEAMS. 9. ALL DESIGNATED 2' X 6' WALLS SHALL HAVE DOUBLE KING STUDS AT DOOR AND WINDOW OPENINGS.

10. ALL UNSQUARE WALLS SHALL BE 45°, UNLESS NOTED OTHERWISE. 11. ALL WALLS TO BE FRAMED W/ MIN. STUD GRADE 2' X 4'S @ 16' D.C., UNLESS

NOTED OTHERWISE. 12. EXTERIOR WALL BOTTOM PLATES SHALL BE NAILED TO FRAMING BELOW WITH 16d

COMMON NAILS @ 8' D.C. MAX. (WHERE APPLICABLE.) 13. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4 GLULAM BEAMS OF THE SAME DEPTH, AND THE FOLLOWING WIDTHS: (2) 1 3/4' LVL PLIES = 3 1/2' GLULAM

(3) 1 3/4" LVL PLIES = 5 1/2" GLULAM 14. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY

The **DURANGO** Site Description: Lot 75, Summit View Farms 3rd Plat Street Address: 2302 SW Serena Pl. Lee's Summit, Missouri

Design Title:

Wood Brothers, Inc. poologic OF MISSON DENNIS HEIER NUMBER PE-2010001772

General Contractor:

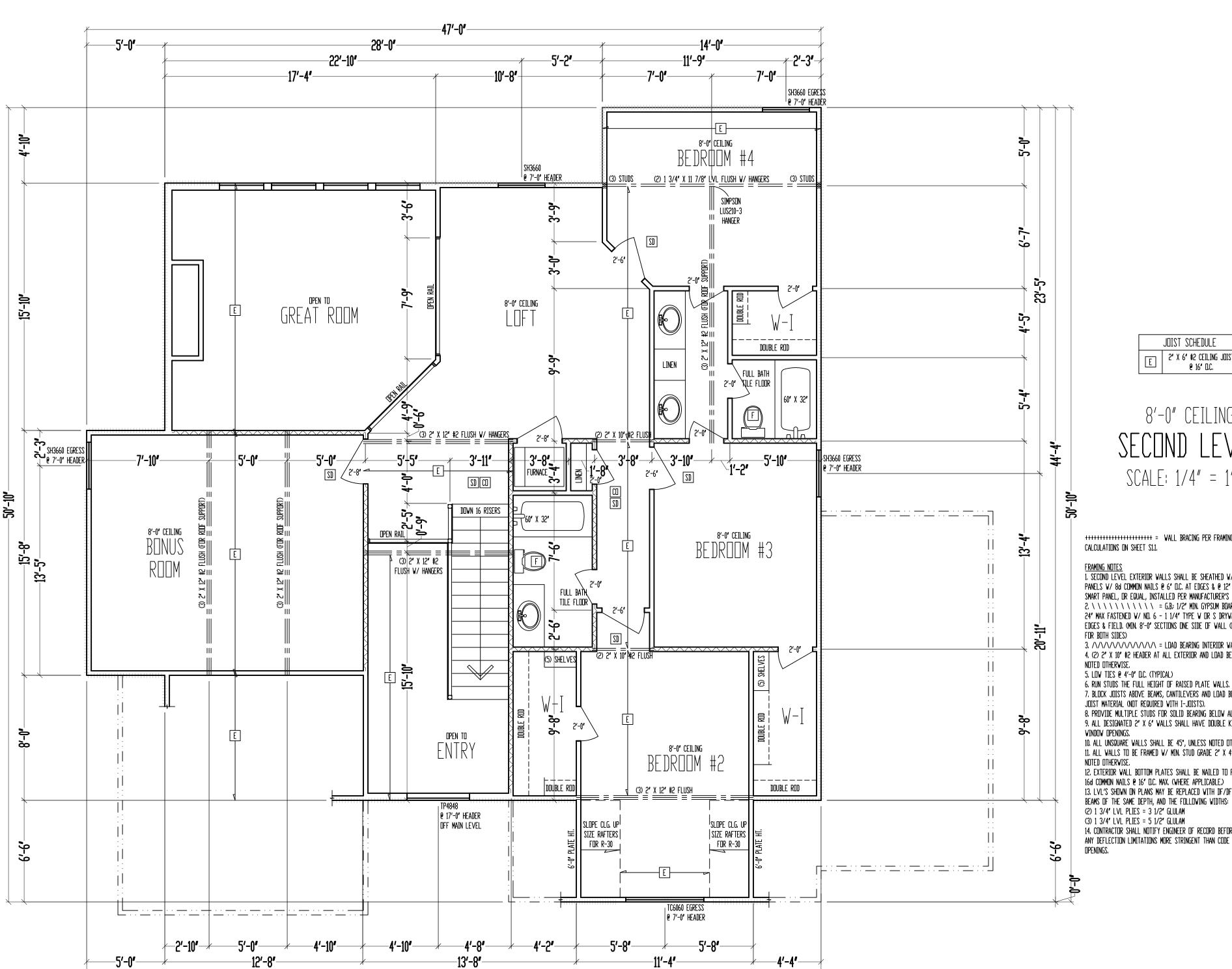
Date: <u>7 - 26 - AD 2023</u> Rev. 1: 9 - 14 - AD 2023 Rev. 2: Rev. 3:

Sheet Title:

MAIN LEVEL PLAN

Sheet No.:

10/05/2023 3:44:15



-47**′-0″**-

JOIST SCHEDULE 2" X 6" #2 CEILING JOIST **e** 16**°** □.C.

8'-0" CEILING SCALE: 1/4" = 1'-0"

CALCULATIONS ON SHEET S1.1.

1. SECOND LEVEL EXTERIOR WALLS SHALL BE SHEATHED W/ 7/16' D.S.B. A.P.A. SMART PANEL, OR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS. 2. \ \ \ \ \ \ \ \ \ = G.B.: 1/2' Min. Gypsum board over studs spaced 24' MAX FASTENED W/ NO. 6 - 1 1/4' TYPE W OR S DRYWALL SCREWS @ 7' D.C. EDGES & FIELD. (MIN. 8'-0" SECTIONS ONE SIDE OF WALL (OR) MIN. 4'-0" SECTION

3. $\/\/\/\/\/\/\$ = LOAD BEARING INTERIOR WALL. 4. (2) 2' X 10' #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.

5. LOW TIES @ 4'-0" D.C. (TYPICAL) 6. RUN STUDS THE FULL HEIGHT OF RAISED PLATE WALLS. 7. BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST MATERIAL (NOT REQUIRED WITH I-JOISTS).

8. PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELOW ALL BEAMS. 9. ALL DESIGNATED 2' X 6' WALLS SHALL HAVE DOUBLE KING STUDS AT DOOR AND WINDOW OPENINGS.

10. ALL UNSQUARE WALLS SHALL BE 45°, UNLESS NOTED OTHERWISE. 11. ALL WALLS TO BE FRAMED W/ MIN. STUD GRADE 2' X 4'S @ 16' D.C., UNLESS

12. EXTERIOR WALL BOTTOM PLATES SHALL BE NAILED TO FRAMING BELOW WITH 16d COMMON NAILS @ 16" D.C. MAX. (WHERE APPLICABLE.) 13. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4 GLULAM

(2) 1 3/4" LVL PLIES = 3 1/2" GLULAM (3) 1 3/4" LVL PLIES = 5 1/2" GLULAM

14. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY

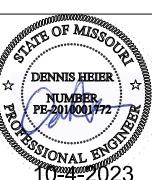
SECOND LEVEL

Design Title: The **DURANGO** Site Description: Lot 75,

Summit View Farms 3rd Plat Street Address: 2302 SW Serena Pl., Lee's Summit, Missouri

General Contractor:

Wood Brothers, Inc.



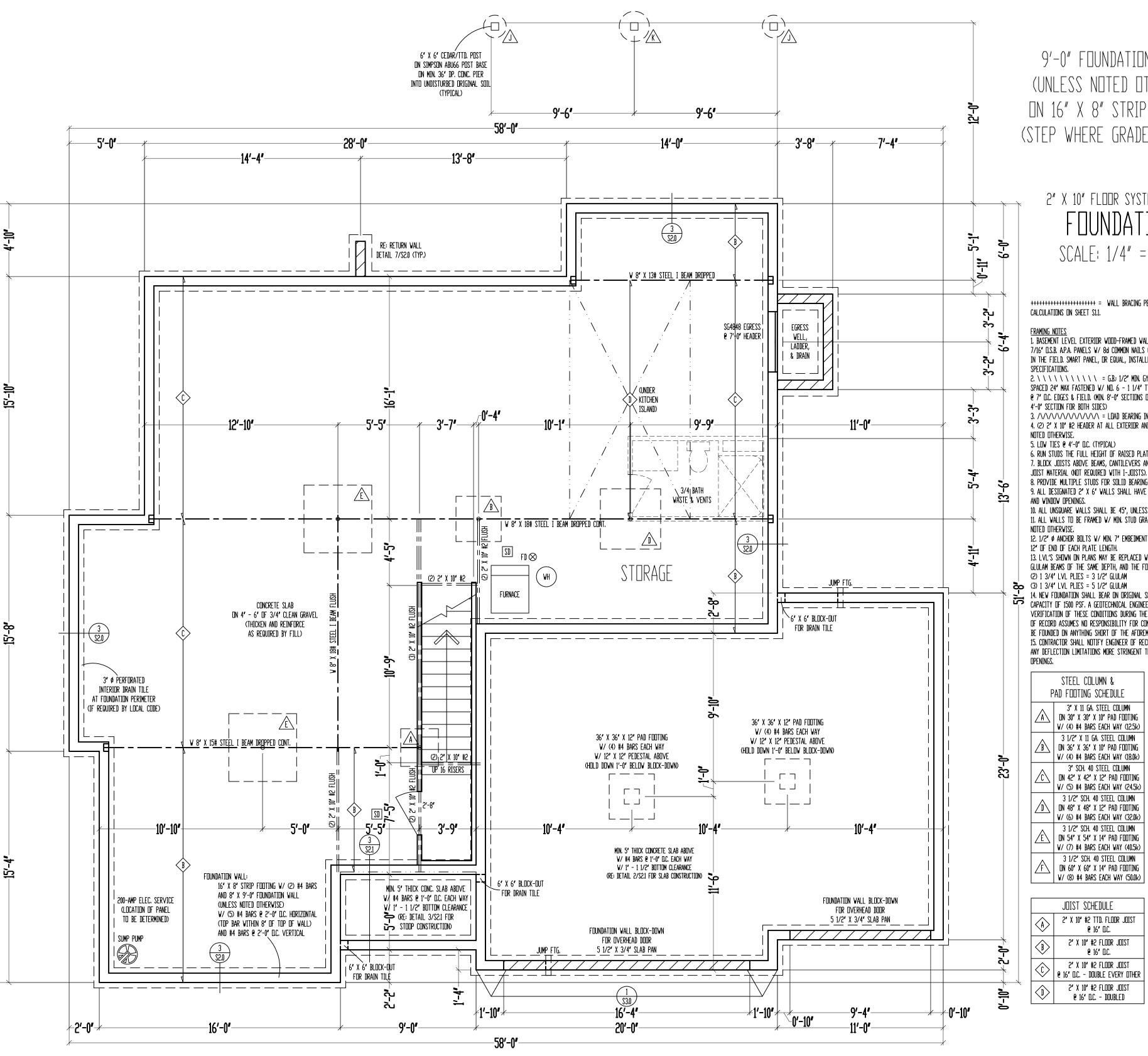
Date: <u>7 - 26 - AD 2023</u> Rev. 1: 9 - 14 - AD 2023 Rev. 2: Rev 3

Sheet Title: **SECOND LEVEL**

PLAN

Sheet No.:

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9'-0" FOUNDATION WALLS (UNLESS NOTED OTHERWISE) ON 16" X 8" STRIP FOOTINGS (STEP WHERE GRADE REQUIRES)

2" X 10" FLOOR SYSTEM ABOVE FOUNDATION

SCALE: 1/4" = 1'-0"

1. BASEMENT LEVEL EXTERIOR WOOD-FRAMED WALLS SHALL BE SHEATHED W/ 7/16' D.S.B. A.P.A. PANELS W/ 8d COMMON NAILS @ 6' D.C. AT EDGES & @ 12' D.C. IN THE FIELD, SMART PANEL, OR EQUAL, INSTALLED PER MANUFACTURER'S

2. \ \ \ \ \ \ \ \ \ = G.B.: 1/2' MIN. GYPSUM BOARD OVER STUDS SPACED 24" MAX FASTENED W/ NO. 6 - 1 1/4" TYPE W OR S DRYWALL SCREWS € 7' D.C. EDGES & FIELD. (MIN. 8'-0' SECTIONS DNE SIDE OF WALL (OR) MIN.

3. /\/\/\/\/\\ = LOAD BEARING INTERIOR WALL. 4. (2) 2' X 10' #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS

6. RUN STUDS THE FULL HEIGHT OF RAISED PLATE WALLS. 7. BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH

8. PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELOW ALL BEAMS. 9. ALL DESIGNATED 2" X 6" WALLS SHALL HAVE DOUBLE KING STUDS AT DOOR

10. ALL UNSQUARE WALLS SHALL BE 45°, UNLESS NOTED OTHERWISE. 11. ALL WALLS TO BE FRAMED W/ MIN. STUD GRADE 2' X 4'S @ 16' D.C., UNLESS

12. 1/2" Ø ANCHOR BOLTS W/ MIN. 7" EMBEDMENT @ 48" D.C. MAX. & WITHIN 6" -13. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4

GLULAM BEAMS OF THE SAME DEPTH, AND THE FOLLOWING WIDTHS: (2) 1 3/4" LVL PLIES = 3 1/2" GLULAM

14. NEW FOUNDATION SHALL BEAR ON ORIGINAL SOIL WITH MINIMUM BEARING CAPACITY OF 1500 PSF. A GEOTECHNICAL ENGINEER IS RECOMMENDED FOR VERIFICATION OF THESE CONDITIONS DURING THE EXCAVATION PHASE, ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION NOT VERIFIED TO

BE FOUNDED ON ANYTHING SHORT OF THE AFOREMENTIONED REQUIREMENTS. 15. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY

STEEL COLUMN &		PIER FOOTING SCHEDULE	
PAD FOOTING SCHEDULE			12' Ø PIER FTG.
Â	3' X 11 GA. STEEL COLUMN ON 30' X 30' X 10' PAD FOOTING W/ (4) #4 BARS EACH WAY (12.5k)	<u></u>	16' Ø PIER FTG.
B	3 1/2' X 11 GA. STEEL COLUMN ON 36' X 36' X 10' PAD FOOTING	\triangle	18' Ø PIER FTG.
\wedge	W/ (4) #4 BARS EACH WAY (18.0k) 3' SCH. 40 STEEL COLUMN ON 42' X 42' X 12' PAD FOOTING	<u>⟨</u> K∖	24 " Ø PIER FTG.
	W/ (5) #4 BARS EACH WAY (24.5k) 3 1/2" SCH. 40 STEEL COLUMN	\triangle	30' Ø PIER FTG.
	ON 48' X 48' X 12' PAD FOOTING W/ (6) #4 BARS EACH WAY (32.0k)		
	3 1/2" SCH AN STEEL CHILIMN		

Ø PIER FTG.	2302 SW Serena Pl.,
Ø PIER FTG.	Lee's Summit, Missouri
ø PIER FTG.	General Contractor: Wood Brothers, Inc.
Ø PIER FTG.	THE OF MISSOLIA
	DENNIS HEIER DENNIS HEIER DE 2010001772

Date: <u>7 - 26 - AD 2023</u> Rev. 1: 9 - 14 - AD 2023 Rev. 2:

WOODNAL ENGO

Design Title:

The

DURANGO Site Description: Lot 75,

Summit View

Farms 3rd Plat

Street Address:

Rev 3 Sheet Title: **FOUNDATION**

PLAN

Sheet No.: 10/05/2023 3:44:15

	FASTENER SCHEDULE FOR STRUCTURAL MEMBERS	
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
	ROOF 1	
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOE NAIL	4-8d (2 ½ " x 0.113")	TOENAIL
CEILING JOISTS TO PLATE, TOE NAIL	4-8d (2 ½ " x 0.113")	PER JOIST, TOENAIL
CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, FACE NAIL	4-10d (3" x 0.128")	FACE NAIL
CEILING JOIST TO PARALLEL RAFTER (HEEL JOINT)	TBLE R802.5.2	FACE NAIL
COLLAR TIE TO RAFTER, FACE NAIL OR 1 ½" x 20 GA. RIDGE STRAP TO RAFTER	4-10d (3" x 0.128")	FACE NAIL, EACH RAFTER
RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX NAILS (3½" 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
ROOF RAFTERS TO RIDGE, VALLEY, OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	4-16d (3 ½" x 0.135") - TOENAIL; 3-16d BOX (3 ½" x 0.135") - END NAIL	TOENAIL, END NAIL
	WALL	
STUD TO STUD (NOT AT BRACED WALL PANELS)	10d (3" x 0.128")	16" O.C. FACE NAIL
STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d (3 ½ " x 0.135")	12" O.C. FACE NAIL
BUILT-UP HEADER, TWO PIECES WITH 1/2" SPACER	16d (3 ½ " x 0.135")	12" O.C. EACH EDGE FACE NAIL
CONTINUOUS HEADER TO STUD	4-8d (2 ½ " x 0.131")	TOENAIL
TOP PLATE TO TOP PLATE	10d (3" x 0.128")	12" O.C. FACE NAIL
DOUBLE TOP PLATE SPLICE	8-16d COMMON (3 ½" x 0.162")	FACE NAIL ON EACH SIDE OF END JOINT (MIN. 24 LAP SPLICE LENGTH EACH SIDE OF END JOINT)
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3 ½" x 0.162")	16" O.C. FACE NAIL
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (AT BRACED WALL PANEL)	3-16d BOX (3 ½" x 0.135")	3 EACH 16" O.C. FACE NAIL
TOP OR SOLE PLATE TO STUD, END NAIL	4-8d BOX (2 ½" x 0.113") - TOENAIL; 3-16d BOX (3 ½" x 0.135") - END NAIL	TOENAIL, END NAIL (SEE LEFT)
TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" x 0.128")	FACE NAIL
1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2 ½" x 0.113")	FACE NAIL
1"x6" SHEATHING TO EACH BEARING	3-8d BOX (2 ½" x 0.113")	FACE NAIL
1"x8" SHEATHING TO EACH BEARING	3-8d BOX (2½" × 0.113") - FACE NAIL; WIDER THAN 1"x8" - 4-8d BOX (2½" × 0.113")	FACE NAIL
	FLOOR	
JOIST TO SILL, TOP PLATE, OR GIRDER	4-8d BOX (2 ½" x 0.113")	TOE NAIL
RIM JOIST, BAND JOIST, OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8d BOX (2 ½" x 0.113")	4" O.C. TOE NAIL
1" x 6" SUBFLOOR OR LESS TO EACH JOIST	3-8d BOX (2 ½" x 0.113")	FACE NAIL
2" SUBFLOOR TO JOIST OR GIRDER	3-16d BOX (3 ½" x 0.135")	BLIND AND FACE NAIL
2" PLANKS (PLAN & BEAM - FLOOR AND ROOF)	3-16d BOX (3 ½" x 0.135")	AT EACH BEARING, FACE NAIL
BAND OR RIM JOIST TO JOIST	3-16d COMMON (3 ½" x 0.162")	END NAIL
BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	10d BOX (3" x 0.128")	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16d BOX (3 ½" x 0.135")	AT EACH JOIST OR RAFTER, FACE NAIL
	-	

CRIPTION OF BUILDING MATERIAL WOOD STRUCTURAL PANELS, SL	SI DESCRIPTION OF FASTENER BFLOOR, ROOF AND INTERIOR WALL SHEA	EDGE SPACING (INCHES) ATHING TO FRAMING AND PARTICLEBOA	INTERMEDIATE SUPPORTS (INCE RD WALL SHEATHING TO FRAMING
K" - L"	6d COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF)	6	12
19/32" - 1"	8d COMMON NAIL (2 ½ " x 0.131")	6	12
1 % " - 1 % "	10d COMMON (3" x 0.148") NAIL OR 8d (2½" x 0.131") DEFORMED NAIL	6	12
	OTHER WALL	. SHEATHING ¹	
TSTRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1½" GALVANIZED ROOFING NAIL, 76" HEAD DIAMETER, OR 1½" LONG 16 GA. STAPLE WITH 76" OR 1" CROWN	3	6
25" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 3 GALVANIZED ROOFING NAIL, 7 HEAD DIAMETER, OR 1 1 LONG 16 GA. STAPLE WITH 7 OR 1 CROWN	3	6
½ " GYPSUM SHEATHING	1½" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1½" SCREWS, TYPE W OR S	7	7
% " GYPSUM SHEATHING	1 % " GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1 % " LONG; 1 % " SCREWS, TYPE W OR S	7	7
v	OOD STRUCTURAL PANELS, COMBINATION	N SUBFLOOR UNDERLAYMENT TO FRAMI	NG
¾ " AND LESS	6d DEFORMED (2" x 0.120") NAIL OR 8d COMMON (2½" x 0.131") NAIL	6	12
% " - 1"	8d COMMON (2½" x 0.131") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL	6	12
1 ½ " - 1 ½ "	10d COMMON (3" x 0.148") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL	6	12

LISTED IN THIS TABLE

FOUNDATION NOTES

- CONCRETE SHALL BE AIR-ENTRAINED BETWEEN 5%-7% WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI FOR BASEMENT AND INTERIOR FLOOR SLABS-ON-GRADE, 3000 PSI FOR FOUNDATION WALLS, AND 3500 PSI FOR PORCHES AND GARAGE FLOOR SLABS
- THE FOUNDATION DESIGN SHALL COMPLY WITH THE ENFORCING JURISDICTION'S RESIDENTIAL FOUNDATION
- PROVIDE A MINIMUM 4"-DIAMETER PERFORATED DRAIN PIPE ALONG PERIMETER OF USABLE SPACE AT FOOTING LEVEL OR OTHER EQUIVALENT MATERIALS PER IRC SECTION R405.1. THE PIPE SHALL BE COVERED WITH A MINIMUM OF 6" OF GRAVEL OR CRUSHED ROCK. THE DRAIN SHALL DAYLIGHT BELOW FOOTING LEVEL OR TERMINATE IN A MINIMUM 20 GALLON SUMP PIT.
- FOUNDATION SHALL BE DESIGNED FOR A BEARING CAPACITY OF 1500 PSF AND FOUNDED ON COMPETENT ORIGINAL SOIL AS DETERMINED AND CONFIRMED BY A LICENSED GEOTECHNICAL ENGINEER OR ENGINEERING GEOLOGIST. ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION NOT VERIFIED TO BE FOUNDED ON ANY SOIL WITH THE AFOREMENTIONED MINIMUM PROPERTIES.
- FOOTINGS SHALL BE A MINIMUM OF 16" WIDE x 8" DEEP AND SHALL HAVE A MINIMUM OF (2) CONTINUOUS GRADE 40 #4 BARS WITH 3" BOTTOM CLERANCE. BOTTOM OF FOOTING SHALL BE LOCATED A MINIMUM OF 3'-0" BELOW GRADE
- CONCRETE PADS SUP0PORTING COLUMN LOADS SHALL BE NO SMALLER THAN 2'-0" x 2'-0" x 1'-0" DEEP WITH A
- MINIMUM OF (4) GRADE 40 #4 BARS EACH WAY WITH 3" BOTTOM CLEARANCE FOUNDATION WALLS SHALL BE A MINIMUM OF 8" NOMINAL WIDTH AND SHALL HAVE HOIZONTAL GRADE 40 #4 BARS
- AT 2'-0" O.C. MAX. WITH VERTICAL #4 BARS AS REQUIRED ON FOUNDATION CROSS SECTION ON SHEET S2.0 REINFORCEMENT SHALL LAP A MINIMUM OF 2'-0" (CLASS B SPLICE)
- INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB BASEMENT FLOOR SLAB SHALL BE A MINIMUM OF 4" THICK ON A MINIMUM BASE COURSE OF 4" TO 6" OF SAND,
- GRAVEL OR CRUSHED ROCK. BETWEEN THE BASE COURSE AND FLOOR SLAB SHALL BE PLACED A 6-MIL POLY VAPOR RETARDER WITH MINIMUM OVERLAP OF 6" AT DISCONTINUITIES
- IF A FLOOR IS TO BE SUPPORTED BY A MINIMUM OF 2'-0" OF GRANULAR FILL OR 8" OF EARTH, BASEMENT SLAB SHALL BE DESIGNED BY A LICENSED ENGINEER
- SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WALL WITH ½" Ø ANCHOR BOLTS EMBEDDED A MINIMUM OF 7" INTO CENTER OF WALL STEM AND SHALL BE INSTALLED AT A MAXIMUM OF 6'-0" O.C. (OR AS NOTED ON PLANS) AND SHALL BE INSTALLED WITHIN 6" TO 12" OF EACH END OF EACH SILL PLATE LENGTH. PER IRC SECTION R403.1.6 FOUNDATION WINDOW WELLS SHALL BE PROVIDED WITH MINIMUM DIMENSIONS AS SHOWN IN DETAIL ON SHEET
- THE GARAGE FLOOR SHALL SLOPE TOWARD THE VEHICLE DOORS OR TO A TRENCH OR UNTRAPPED DRAIN THAT DISCHARGES TO THE EXTERIOR, ABOVE GRADE

FRAMING NOTES

MINIMUM OF 1/2

- 15. ALL DIMENSIONAL LUMBER SHALL BE DOUGLAS-FIR-LARCH GRADE #2, UNLESS NOTED OTHERWISE ON PLANS ALL INTERIOR LOAD-BEARING AND EXTERIOR WALL HEADERS SHALL BE (2) #2 - 2x10's, UNLESS NOTED OTHERWISE
- BLOCK OVER BEAMS AND AT CANTILEVERS AND DOOR JAMBS
- INTERIOR NON-BEARING WALLS RESTING ON BASEMENT SLAB SHALL BE ISOLATED FROM ABOVE FRAMING BY A
- ALL HEADERS/BEAMS SHALL BEAR ON A MINIMUM OF (2) 2x4 POSTS (KING AND JACK STUDS), UNLESS NOTED **OTHERWISE**
- WHERE JOISTS SPAN PARALLEL TO FOUNDATION, BLOCKING SHALL BE PROVIDED IN THE TWO SPACES MOST ADJACENT TO THE FOUNDATION WALL AT 4'-0" O.C. FOR THE PURPOSE OF TRANSFERRING LATERAL FOUNDATION WALL LOAD TO THE FLOOR DIAPHRAGM. FASTEN JOISTS AND BLOCKING TO SILL PLATE WITH (4) 10d NAILS. IF MECHANICAL DUCTWORK IS INSTALLED IN ONE OF THESE FIRST TWO BAYS, FASTEN 2x4's FLAT AT 4'-0" O.C. BETWEEN JOIST(S) AND/OR SILL AND PROVIDE BLOCKING AS PRESCRIBED ABOVE IN THE NEXT TWO JOIST BAYS. SECURE 2x4's TO JOIST(S)/SILL PLATE WITH (4) 10d NAILS.
- ALL WOOD MATERIAL SUPPORTED ON CONCRETE OR MASONRY SHALL BE TREATED OR OF DECAY-RESISTANT
- JOISTS UNDER BEARING PARTITIONS ON PLANS HAVE BEEN SIZED TO SUPPORT THE DESIGN LOAD. JOISTS FRAMING INTO THE FACE OF A STEEL OR WOOD BEAM SHALL BE SUPPORTED WITH APPROPRIATE
- JOISTS FRAMED ON TOP OF STRUCTURAL MEMBER SHALL BE SUPPORTED AT EN DS BY FULL-DEPTH SOLID
- BLOCKING MIN. 1%" IN THICKNESS OR BY FASTENING RIM TO JOISTS PER FASTENING TABLE TO LEFT
- ALL WALL COVERINGS SHALL COMPLY WITH IRC SECTION R702.3 ALL RAFTERS AND COLLAR TIES SHALL COMPLY WITH IRC SECTION R802.3.

INSPECTED BY AN AWS-CERTIFIED INSPECTOR.

- ALL RAFTERS SHALL HAVE 2x4 COLLAR TIES @ 4'-0" O.C. IN UPPER ½ OF VERTICAL DISTANCE BETWEEN CEILING AND
- BLOCKING BETWEEN JOISTS UNDER A LOAD-BEARING WALL IS NOT REQUIRED
- PER IRC SECTION 501.3, BOTTOM OF ALL FLOOR ASSEMBLIES ABOVE UNFINISHED AREAS SHALL BE PROVIDED WITH A %" GYPSUM BOARD MEMBRANE OR RESIDENTIAL FIRE SPRINKLER SYSTEM WHEN FLOOR SYSTEM IS CONSTRUCTED OF OTHER THAN DIMENSION LUMBER OR STRUCTURAL COMPOSITE LUMBER EQUAL TO OR GREATER THAN 2x10 NOMINAL DIMENSION(WHERE REQUIRED BY ENFORCING JURISDICTION)
- ENGINEERED LVL's SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E=1900 ksi, AND Fv=285 psi ENGINEERED PARALLAMS SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E = 2000 ksi, AND Fv = 290 psi
- COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CLIP POST CAP WITH ALL FOUR TAB EARS BENT AROUND THE BOTTOM FLANGE OF THE BEAM. FOR A BEARING PLATE, FOUR HOLES SHALL BE DRILLED IN THE BOTTOM FLANGE OF THE STEEL BEAM TO MATCH THE HOLE PATTERN OF THE PLATE. ½" x 2" BOLTS SHALL THEN BE INSTALLED WITH A FLAT WASHER, LOCK WASHER, AND A NUT IN EACH OF THE HOLES. THE POST CAP MAY BE WELDED TO THE STEEL BEAM IN ACCORDANCE WITH AWS D1.1-92 AS AN ALTERNATIVE, AND WOULD NEED TO BE
- WHEN MECHANICAL EQUIPMENT IS LOCATED IN AN ENCLOSED ROOM, THERE SHALL BE (2) 14"x12" VENTS LOCATED IN A WALL COMMON WITH ADDITIONAL LIVING AREA. ONE VENT SHALL BE LOCATED SUCH THAT THE BOTTOM OF THE VENT BEGINS 12" FROM THE FLOOR AND THE OTHER VENT SHALL BE LOCATED SUCH THAT THE TOP OF THE
- ALL ROOF SHEATHING SHALL BE $\frac{7}{6}$ " OSB WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND @ 12" O.C. IN FIELD

GLAZING NOTES

- GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS. GLASS IN STORM DOORS, INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 2'-0" ARC OF THE DOOR IN A CLOSED POSITION AND FOR WHICH THE BOTTOM EDGE IS WITHIN 5'-0" OF THE FLOOR, WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE ${\tt GLAZING~IS~WITHIN~5"-0"}~{\tt OF~THE~TOP~OR~BOTTOM~OF~THE~STAIR,~ENCLOSURES~FOR~SPAS,~TUBS,~SHOWERS,~AND~STAIR,~ENCLOSURES~FOR~SPAS,~TUBS,~SHOWERS,~AND~STAIR,~ENCLOSURES~FOR~SPAS,~TUBS,~SHOWERS,~AND~STAIR,~ENCLOSURES~FOR~SPAS,~TUBS,~SHOWERS,~AND~STAIR,~ENCLOSURES~FOR~SPAS,~TUBS,~SHOWERS,~AND~STAIR,~ENCLOSURES~FOR~SPAS,~TUBS,~SHOWERS,~AND~STAIR,~ENCLOSURES~FOR~SPAS,~TUBS,~SHOWERS,~AND~STAIR,~ENCLOSURES~FOR~SPAS,~TUBS,~SHOWERS,~AND~STAIR,~SHOWERS,~$ WHIRLPOOLS, GLAZING IN FIXED OR OPENABLE PANELS EXCEEDING NINE SQUARE FEET AND FOR WHICH THE
- BOTTOM EDGE IS LESS THAN 1'-6" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 3'-0" ALL OPERABLE WINDOWS SHALL HAVE FALL PROTECTION PER IRC SECTION R612.2

ATTIC VENTILATION

ENCLOSED ATTICS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH, WITH 1/4" TO 1/4" OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN χ_{50} OF THE AREA OF SPACE VENTILATED, EXCEPT WHERE THE VENTILATORS ARE LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED - THE REQUIRED AREA MAY BE REDUCED TO 1/300.

EMERGENCY EGRESS

- 38. PROVIDE A MINIMUM OF ONE WINDOW FOR EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SQUARE FEET WITH A MINIMUM OPENABLE HEIGHT OF 2'-0" AND A MINIMUM WIDTH OF 1'-9". IN ADDITION, THE OPENABLE PORTION OF EGRESS WINDOWS SHALL NOT EXCEED 3'-8" ABOVE THE ADJOINING FLOOR OR PERMANENT STEP
- PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR, INCLUDING BASEMENT (IF APPLICABLE). ALARMS SHALL BE HARDWIRED TOGETHER SO THAT THE ACTIVATION OF ONE SMOKE ALARM WILL ACTIVATE ALL SMOKE ALARMS IN THE DWELLING. PROVIDE CARBON MONOXIDE DETECTORS OUTSIDE EACH SLEEPING AREA.

MASONRY VENEER

- MASONRY VENEER SHALL BE ANCHORED TO THE SUPPORTING WALL STUDS WITH CORROSION-RESISTANT METAL TIES EMBEDDED IN MORTAR OR GROUT AND EXTENDING INTO THE VENEER A MINIMUM OF 1½", WITH NOT LESS THAN %" MORTAR OR GROUT COVER TO OUTSIDE FACE.
- VENEER TIES, IF STRAND WIRE, SHALL NOT BE LESS IN THICKNESS THAN NO. 9 U.S. GAGE WIRE AND SHALL HAVE A HOOK EMBEDDED IN THE MORTAR JOINT, OR IF SHEET METAL, SHALL BE NOT LESS THAN NO. 22 U.S. GAGE BY 🔏 CORRUGATED.

EACH TIE SHALL SUPPORT NOT MORE THAN 2.67 SQUARE FEET OF WALL AREA AND SHALL BE SPACED NOT MORE

- THAN 32 INCHES ON CENTER HORIZONTALLY AND 24 INCHES ON CENTER VERTICALLY.
- VENEER TIES AROUND WALL OPENINGS: ADDITIONAL METAL TIES SHALL BE PROVIDED AROUND ALL WALL OPENINGS GREATER THAN 16 INCHES IN EITHER DIMENSION. METAL TIES AROUND THE PERIMETER OF OPENINGS SHALL BE SPACED NOT MORE THAN 3 FEET ON CENTER AND PLACED WITHIN 12 INCHES OF THE WALL OPENING.

GARAGE NOTES

- DOOR(S) BETWEEN THE GARAGE AND DWELLING SHALL BE MINIMUM 1%" SOLID CORE OR HONEY-COMBED STEEL
- DOOR WITH 20-MINUTE FIRE RATING EQUIPPED WITH A SELF-CLOSING DEVICE
- VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115-MPH 3-SECOND GUST LOADING PER DASMA 108 AND ASTM E 330-96 PER IRC 2018

GARAGE NOTES (CONTINUED)

- THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY MINIMUM %" GYP. BOARD APPLIED TO THE GARAGE SIDE OF FRAMING. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE, THE GARAGE CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM 5/4" TYPE X GYP, BOARD. WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE THE GARAGE COLUMNS AND BEAMS
- SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 5/8" GYP. BOARD. GARAGE DOOR H-FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING FROM FLOOR TO CEILING AND SHALL BE FASTENED WITH 2½"" x 0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 31/4" x 0.120" NAILS THROUGH THE JAMB INTO THE HEADER. MINIMUM 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.

DESIGN LOADING (PER TABLE R301.5)

MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS (PSF)						
USE	LIVE LOAD	DEAD LOAD				
UNINHABITABLE ATTICS WITHOUT STORAGE	10	10				
UNINHABITABLE ATTICS WITH LIMITED STORAGE	20	10				
HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS	30	10				
BALCONIES (EXTERIOR) AND DECKS	40	10 ^d				
FIRE ESCAPES	40	10				
GUARDRAILS AND HANDRAILS ^a	200 ^c	-				
GUARDRAIL IN-FILL COMPONENTS ^b	50 ^c	-				
PASSENGER VEHICLE GARAGES	50	DEPENDENT UPON SLAB CONSTRUCTION				
ROOMS OTHER THAN SLEEPING ROOM	40	10 ^d				
SLEEPING ROOM	30	10 ^d				
STAIRS	40	10 ^d				

a. A single concentrated load applied in any direction at any point along the top. b. Guard in-fill components (all those except the handrail), ballusters and panel fillers shall be designed to

withstand a horizontally applied normal load of 50 pounds on an area equal to one square foot. This load need not be assumed to act concurrently with any other live load requirement c. Glazing used in handrail assemblies and guards shall be designed with a safety factor of 4. The safety factor shall be applied to each of the concentrated loads applied to the top of the rail, and to the load on the infill components. These loads shall be determined independently of one another, and loads are assumed not to occur with any other live load.

d. An additional dead loading of 10 psf shall be applied where thinset tile floor is to be installed. An additional dead loading of 50 psf shall be applied where mudset tile floor is to be installed

INSULATION/EFFICIENCY

- BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102.1.1 OR THE 2012 IECC (SEE SHEET S3.1 FOR FRAMING DETAILS AND TABLES ON THIS SHEET FOR MORE INFORMATION)
- CATHEDRAL -VAULTED CEILING FRAMING SHALL BE FRAMED WITH A MINIMUM INSULATION VALUE OF R-38. IF VAULTED RAFTERS DO NOT PROVIDE REQUIRED DEPTH TO ACHIEVE R-38 INSULATION BUILDER SHALL FUR DOWN RAFTERS PER DETAILS PROVIDED ON

INSULATION AND FENESTRATION REQUIRE	MENTS BY COMPONENT (TABLE N1102.1.1)
CLIMATE ZONE	4-A
FENESTRATION U-FACTOR	0.35
SKYLIGHT U-FACTOR	0.55
GLAZED FENSTRATION SHGC	0.40
CEILING R-VALUE	49
WOOD FRAME WALL R-VALUE	15
MASS WALL R-VALUE	8 / 13
FLOOR R-VALUE	19
BASEMENT WALL R-VALUE	10-CONTINUOUS OR 13-CAVITY
SLAB R-VALUE AND DEPTH	10 AT 2'-0"
CRAWL SPACE WALL R-VALUE	10-CONTINUOUS OR 13-CAVITY
DUCTWORK EXPOSED TO OUTSIDE AIR R-VALUE	8
DUCTWORK NOT EXPOSED TO OUTSIDE AIR R-VALUE	6
CATHEDRAL VAULTED CEILING R-VALUE	38

DUCT SEALING

N1103.2.2 (R403.2.2) SEALING (MANDATORY). DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION M1601.4.1 OF 2018 IRC. **EXCEPTIONS:**

- AIR-IMPERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED WITHOUT ADDITIONAL JOINT SEALS.
- WHERE A DUCT CONNECTION IS MADE THAT IS PARTIALLY INACCESSIBLE. THREE SCREWS OR RIVETS SHALL BE EQUALLY SPACED ON THE EXPOSED PORTION OF THE JOINT SO AS TO PREVENT A HINGE EFFECT.
- CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS IN DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2 INCHES OF WATER COLUMN

DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER OF THE FOLLOWING: POST-CONSTRUCTION TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE

DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTER BOOTS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST.

ROUGH-IN TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM PER 100 SOLIARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. IF THE AIR HANDLER IS NOT INSTALLED AT THE TIME OF THE TEST, TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 3 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA.

EXCEPTION: THE TOTAL LEAKAGE TEST IS NOT REQUIRED FOR DUCTS AND AIR HANDLERS LOCATED ENTIRELY WITHIN THE BUILDING THERMAL ENVELOPE.

MECHANICAL VENTILATION SYSTEM FAN EFFICACY						
FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)			
RANGE HOODS	ANY	2.8	ANY			
IN-LINE FAN	ANY	2.8	ANY			
BATHROOM, UTILITY ROOM	10	1.4	90			
BATHROOM, UTILITY ROOM	90	2.8	ANY			

ESTERNOTE LA CONTROL TO THE COST OF LATING ESTE								
MULTIPLE-PLY WOOD BEAM FASTENING SCHEDULE								
DIMENSIONAL LUMBER BEAM SIZE/TYPE	FASTENERS	LVL BEAM SIZE/TYPE	FASTENERS	LVL BEAM SIZE/TYPE	FASTENERS			
(2) 2x	(2) ROWS 10d @ 12" O.C. ONE SIDE	(2) 1 $\frac{3}{4}$ " UP TO 11 $\frac{7}{8}$ " DEPTH	(2) ROWS 16d @ 12" O.C. ONE SIDE	(3) 1 ¾" x 14"+ DEPTH	(3) ROWS 16d @ 12" O.C. BOTH SIDES			
(3) 2x	(2) ROWS 10d @ 12" O.C. BOTH SIDES	(2) 1 ¾" 14"+ DEPTH	(3) ROWS 16d @ 12" O.C. ONE SIDE	(4) 1 $rac{3}{4}$ " UP TO 11 $rac{7}{8}$ " DEPTH	(2) ROWS ½" x 5" SIMPSON SDS OR SDWS SCREWS @ 16" O.C. STAGGERED TOP & BOTTOM BOTH SIDES			
(4) 2x	(2) ROWS ¼" x 5" SIMPSON SDS SCREWS @ 16" O.C. STAGGERED TOP & BOTTOM, BOTH SIDES	(3) 1 $\frac{3}{4}$ " UP TO 11 $\frac{7}{4}$ " DEPTH	(2) ROWS OF 16d @ 12" O.C. BOTH SIDES	(4) 1 ¾" x 14"+ DEPTH	(3) ROWS ½" x 5" SIMPSON SDS OR SDWS SCREWS @ 16" O.C. STAGGERED TOP & BOTTOM BOTH SIDES			



SPEC SUMMIT SVF075 S LOT 75, 8 E В

VIEW FARMS

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RESIDENTIAL SEISMIC & WIND ANALYSIS

				INPUT
DETERMINE WEIGHT OF HOUSE:				CALCULATED VALUE
LOCATION		DEAD LOAD (psf)	AREA (ft²)	WEIGHT (lbs.)
ROOF		10	2714	27140
CEILING		10	2714	27140
SECOND FLOOR		10	1330	13300
FIRST FLOOR		10	2714	27140
	WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)
SECOND FLOOR EXT. WALL DL	191.5	9	9	15511.5
FIRST FLOOR EXT. WALL DL	219.34	10	10	21934
		DEAD LOAD (psf)	AREA (ft2)	WEIGHT (lbs)
SECOND FLOOR INT. PARTITION WALL DL		6	1330	7980
FIRST FLOOR INT. PARTITION WALL DL		6	2714	16284

	PRO	DJECTED AREAS (WIND	DESIGN PER 115 MPH	3-SECOND GUST, EXPOS	URE C AND MEAN ROOF HEIGHT <= 30	FT ASSUMED)	
	FRONT	-TO-BACK			SIDE-TO-SI	DE	·
	AREA	LOAD			AREA	LOAD	
SLOPED ROOF	310	2611		SLOPED ROOF	465	3956	
VERT. ROOF	46	566	CUMULATIVE	VERT. ROOF	0	0	CUMULATIVE
2ND	470	5897	9074	2ND	487.5	6094	10050
1ST	638	7851	16926	1ST	568.37	7066	17116
			PRESSURE (PS	F) - PER ASCE CH. 6			
	SLOPED ROOF	ZONE B		9.7	ZONE C	11.3	2a (FIG. 28.6-1, ASCE7)
	WALL/VERT. ROOF	ZONE A		14.2	ZONE D	7.7	10.334
	MEAN ROOF HT., h		28		·	•	•

a) If there is a walkout wall to be sheathed, determine tributary wind area and enter here. If no walkout, enter 0 for area. q_{z_10} =0.00256 K_z K_z K_z K_d V^2 (ASCE7-10 Velocity Pressure) $q_{z_10_ASD}$ =0.6 q_{z_10} (Design Velocity Pressure for N

q_{z10_ASD}=0.6q_{z10} (Design Velocity Pressure for ASD analysis under ASCE7-10 and IRC/IBC 2012)

2ND FLOOR TRIBUTARY WEIGHT 1ST FLOOR TRIBUTARY WEIGHT S_S (SITE GROUND MOTION - %g - FROM ASCE7 SEISMIC MAP) F_a (from ASCE7 Table 11.4-1) $S_{DS} (= 2/3 * S_S * F_a)$ R (from ASCE7 Table 12.2-1)

102038.5 12.0% 1.6 0.128 6.5

62035.75

	SEISMIC SHEAR		
LOCATION		From ASCE7 (Eq. 12.8-1):	V (= 1.2 * S _{DS} * W / R) (lbs.)
2ND FLOOR			1466
1ST FLOOR	<u> </u>	·	2411

Sheathing Location	Min. Sheathing Schedule	Fastening Schedule	Allowable Shear (#/LF)	Code Reference
Exterior (Option #1)	7/16" APA Rated Plywood/OSB	1-1/2" 16gs. Staples w/ 1" penetration@ 6" OC Edges, 8" OC Field For 24" stud specing, 12" OC Field For 16" stud specing	155	per IBC, Table 2306.3(1)
Exterior (Option #2)	7/16" APA Rated Plywood/OSB	1-1/2" 16gs. Staples w/ 1" penetration@ 4" OC Edges, 5" OC Field For 24" stud specing, 12" OC Field For 16" stud specing	230	per IBC, Table 2306.3(1)
Exterior <u>(Option #3)</u>	7/15" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration@ 3" OC Edges, 8" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing	318	par IBC, Tabla 2308.3(1)
Exterior (Option #4)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 6" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 4" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	220	AF&PA SDPW Table 4.3A
Exterior (Option #5)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 4" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 3" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	320	AF&PA SDPW Table 4.3A
Exterior (Option #6)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing and double studs at each panel edge	8d Common Nails w/ 1-3/8" penetration @ 3" O.C. Edges, 12" O.C. Field	410	AF&PA SDPW Table 4.3A
Interior	1/2" Gypsum Board	No. 6- 1 ¹ / ₄ " Type W or S Screws @ 8" O.C. Edges, 12" O.C. Field	60	per IBC, Table 2306.4.4
Interior	16 Ga. Simpson/USP Type WB Steel X-Brace (or equal)	(3) 16d @ end studs & (1) 8d @ intermediate studs (per manufacturer specifications - see detail on sheet S3)	325	

EXTERIOR SHEATHING OPTION FOR SECOND FLOOR	4
EXTERIOR SHEATHING OPTION FOR FIRST FLOOR	4

EXTERIOR SHEATHING OPTION FOR BASEMENT WALLS

	i e	_
WIDTH OF 1ST STORY (FT.)	58	WIDTH OF 2ND STORY (FT.) 47
DEPTH OF 1ST STORY (FT.)	51.67	DEPTH OF 2ND STORY (FT.) 48.75
BACK WALL OF GARAGE (FT.)	0	
GAR WALL: 1=F-B 2=S-S	2	

			EXTER	RIOR STRUCTURAL WALL I	LENGTHS (ft.) & RESISTANCES			
		SE	ISMIC			WIND		
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)
ND FLOOR	49	13720	58	16240	49	19208	58	22736
ST FLOOR	87	24360	60	16800	87	34104	60	23520
			·					
		ADDITIONAL RESIS	TANCE REQUIRED		Anchor Bolt Spacing	(in.)	16d Nail Spacing req'd at b	oottom plate (in.)
		SEISMIC	WIND		diameter (in.)	0.5	2nd Floor F-B	31
ND FLOOR FRONT-T	O-BACK	0	0		Shear value (per NDS)	944	2nd Floor S-S	31
ND FLOOR SIDE-TO-	SIDE	0	0		Spacing F-B (inches)	110.7	1st Floor F-B	17
ST FLOOR FRONT-T	O-BACK	0	0		spacing S-S (inches)	122.8	1st Floor S-S	18

		RESISTANCE REQUI	RED IN ADDITION TO RES	SISTANCE PROVIDED BY EXTERIOR W	ALLS**		
	ADDITIONAL RESISTANCE REQUIRED (POUNDS)	PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE	INTERIOR X-BRACES (325#/BRACE)	INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)	INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	RESISTANCE PROVIDED BY ADDITIONAL METHODS (POUNDS)	OK?
2ND FLOOR FRONT-TO-BACK	0					0	YES
2ND FLOOR SIDE-TO-SIDE	0					0	YES
1ST FLOOR FRONT-TO-BACK	0					0	YES
1ST FLOOR SIDE-TO-SIDE	0					0	YES

**NOTES: 1) SEE ATTACHED CALCULATIONS FOR PORTAL FRAME OR PERFORATED SHEAR WALL RESISTANCE CAPACITIES (IF APPLICABLE),

2) SEE SHEET S1 FOR INTERIOR STEEL X-BRACE INSTALLATION, 3) INTERIOR WALLS SHEATHED WITH OSB SHALL BE ATTACHED WITH SAME STAPLE/NAILING PATTERN AS EXTERIOR OSB ON SAME FLOOR (SEE TABLE ABOVE) AND ARE ONLY APPLICABLE FOR FULL-HEIGHT SECTIONS OF 2'-8" OR LONGER ALL LATERAL BRACING ACHIEVED AT EXTERIOR WALLS AND WALLS DIRECTLY ON FOUNDATIONS; THEREFORE, NO INTERIOR BRACING PER 2012 IRC SECTION R502.2.1 IS REQUIRE

				WIND UPLIFT	ANALYSIS		
	X/12	DEGREES					
ROOF PITCH (MAX)	7	30.3	PITCH OF 6 OR LESS: I	EOH -13.3, E -7.2, G -5.2			
		ASCE 7					
	LENGTH (FT.)	PRESSURE (PSF)	LINEAL FT. OF OH	UPLIFT PER FT* (LBS)			
OVERHANG	1	-1.08	221.34	-1.08			
	TOTAL AREA (FT ²)	ZONE E AREA (FT ²)	ZONE G AREA (FT ²)	PRESSURE ZN. E (PSF)	PRESSURE ZN. G (PSF)	TOTAL FORCE (LBS)	FORCE PER LINEAL FT @ PERIMETER (LBS)
MAIN ROOF**	2996.86	1551.794776	1445.065224	-1.08	-0.36	-2196	-10.0
*ALONG PERIMETER		TOTAL UPLIFT PER LINEAL	FOOT ALONG EXTERIOR (PO	UNDS)	-11.1	UPLIFT OK	
**INSIDE EXTERIOR W	/ALLS	RESISTANCE DUE TO DEAD	WEIGHT & (3) 10d TOENAILS		251.6		

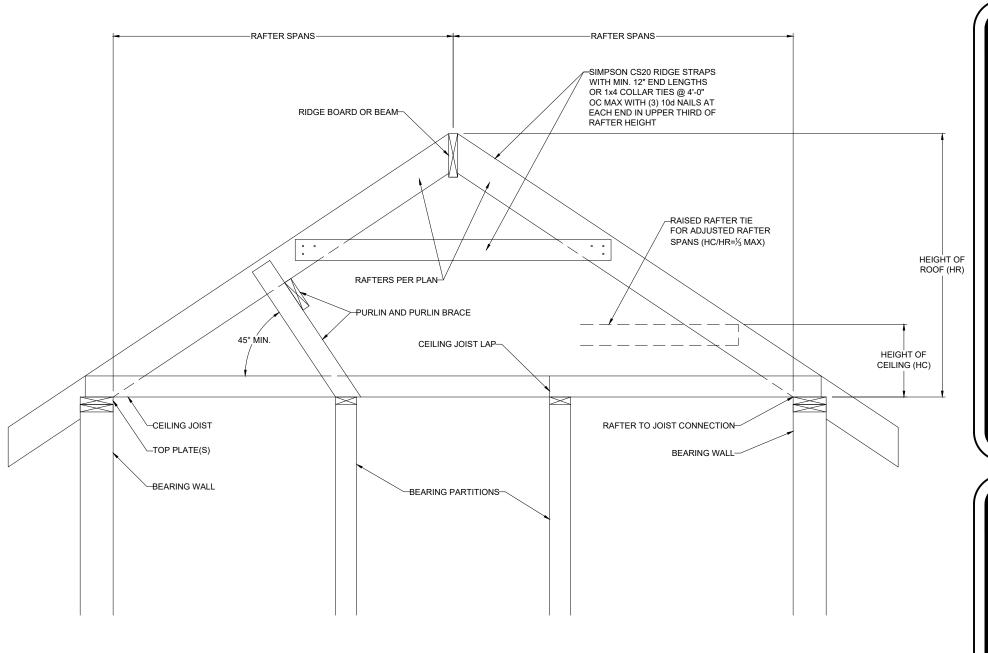
NOTE FOR CONSTRUCTION:

1ST FLOOR SIDE-TO-SIDE

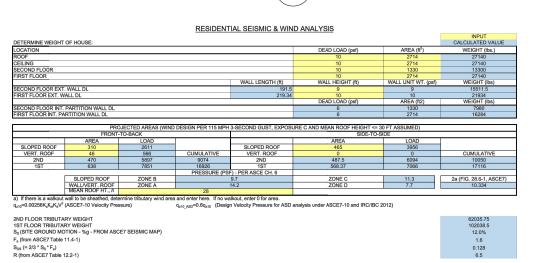
THE CONTINUOUS STRUCTURAL PANEL SHEATHING BRACING METHOD REQUIRES USE OF THE ABOVE TABLE FOR SHEATHING OF THE ENTIRE STRUCTURE. IN ADDITION, FRAMING MEMBERS SHALL BE @ 16" O.C. MAX.,

ALL WALLS USED IN THE CALCULATION OF THE RESISTANCE FOR THIS STRUCTURE SHALL HAVE A MINIMUM UNINTERRUPTED HEIGHT OF 8'-0" AND LENGTH OF 2'-8". ALLOWABLE RESISTANCES HAVE BEEN #/FT AND INCREASED BY 40% FOR WIND LOADS, PER VALUES IN 2012 IBC SECTION 2306 AND AF&PA SDPWS TABLE 4.3A. FOR EXAMPLE, 7/16" APA-RATED SHEATHING WITH 8d @ 6" & 12" HAS A SEISMIC SHEAR VALUE OF 240 A WIND SHEAR VALUE OF 335#/FT - 40% GREATER THAN THAT OF SEISMIC)

NOTE: SOIL SITE CLASS ASSUMED TO BE CLASS D. IF SITE CONDITIONS ARI DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION



1 BRACED RAFTER CONSTRUCTION S1.1 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



TION LOOR LOOR		From	ASCE7 (Eq. 12.8-1):	V (= 1.2 * S _{DS} * 146 241	6
Sheathing Location	Min. Sheathing Schedule	Fastening Schedule	Allowable S	hear (#/LF)	Code Reference
Exterior (Quittur #1)	7/18" APA Rated Plywood/OSB	1-1/2" 16ga. Staplas w/ 1" penetration@ 6" OC Edges, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing	15	5	per IBC, Table 2306.3(1)
Exterior (Gardon 93)	7/18" APA Rated Plywood/OSB	1-1/2" 16ga. Staplas w/ 1" penetration@ 4" OC Edgez, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud specing	23	C	per IBC, Table 2306.3(1)
Exterior (Castas 83)	7/16" APA Rated Plysrood/OSB	1-1/2" 16ga. Staples w/ 1" panetration@ 3" OC Edgee, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud specing	31	С	per IBC, Table 2306.3(1)
Exterior (Option #4)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 6" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 4" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	22	0	AF&PA SDPW: Table 4.3A
Exterior (Option #5)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 4" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 3" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	32	0	AF&PA SDPWS
Exterior (Option #6)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing and double studs at each panel edge	8d Common Nails w/ 1-3/8" penetration @ 3" O.C. Edges, 12" O.C. Field	41	0	AF&PA SDPW: Table 4.3A
Interior	1/2" Gypsum Board	No. 6- 1 ¹ / ₄ " Type W or S Screws @ 8" O.C. Edges, 12" O.C. Field	60)	per IBC, Table 2306.4.4
Interior	16 Ga. Simpson/USP Type WB Steel X-Brace (or equal)	(3) 16d @ end studs & (1) 8d @ intermediate studs (per manufacturer specifications - see detail on sheet S3)	32	5	

	terior	equ	ial)	manufacturer specif	fications - see detail on sheet S3)		325	
XTERIOR SHEATHI	NG OPTION FOR SECO	ND FLOOR	4	 				
EXTERIOR SHEATHIN	NG OPTION FOR FIRST	FLOOR	4		WIDTH OF 1ST STORY (FT.)	58	WIDTH OF 2ND STORY (FT.)	47
EXTERIOR SHEATHIR	NG OPTION FOR BASE	WENT WALLS	4		DEPTH OF 1ST STORY (FT.)	51.67	DEPTH OF 2ND STORY (FT.)	48.75
					BACK WALL OF GARAGE (FT.)	0		
					GAR. WALL: 1=F-B, 2=S-S	2		
		Or.	EXTER EISMIC	IOR STRUCTURAL WALL	LENGTHS (ft.) & RESISTANCES	MAIN		
			ISMIC			WIND	T	
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.
2ND FLOOR	49	13720	58	16240	49	19208	58	22736
1ST FLOOR	87	24360	60	16800	87	34104	60	23520
		ADDITIONAL RESIS	TANCE DECUIDED	1	Anchor Bolt Spacing	/i= \	16d Nail Spacing reg'd at t	rettern elete (in \
		SEISMIC SEISMIC	WIND	1	diameter (in.)	0.5	2nd Floor F-B	outom plate (in.)
ND FLOOR FRONT-1	TO-BACK	0	O VVIND	1	Shear value (per NDS)	944	2nd Floor S-S	
ND FLOOR FRONT-		0	0	1	Spacing F-B (inches)	110.7	1st Floor F-B	
ST FLOOR FRONT-T		0	0	1	spacing S-S (inches)	122.8	1st Floor S-S	
1ST FLOOR SIDE-TO-		0	0	1	special of (manes)	10010		
			RESISTANCE REQUI	RED IN ADDITION TO RES	SISTANCE PROVIDED BY EXTERIOR W	ALLS**		
		ADDITIONAL	PORTAL FRAMES OR	INTERIOR X-BRACES	INTERIOR WALL LENGTH W/ 1/2"	INT. WALL LENGTH SHEATHED W/ OSB	RESISTANCE PROVIDED BY ADDITIONAL METHODS	OK?
		RESISTANCE REQUIRED (POUNDS)	PERF. SHEAR WALL RESISTANCE	(325#/BRACE)	GYPSUM BOARD PER TABLE (FT.)	(TOTAL LENGTH, ONE SIDE, FT.)	(POUNDS)	OK?
				(325#/BRACE)	GYPSUM BOARD PER TABLE (FT.)			YES
ND FLOOR SIDE-TO	-SIDE	REQUIRED (POUNDS) 0 0		(325#/BRACE)	GYPSUM BOARD PER TABLE (FT.)		(POUNDS) 0 0	YES YES
ND FLOOR SIDE-TO	-SIDE FO-BACK	REQUIRED (POUNDS)		(325#/BRACE)	GYPSUM BOARD PER TABLE (FT.)		(POUNDS) 0 0 0	YES YES YES
2ND FLOOR SIDE-TO IST FLOOR FRONT-T IST FLOOR SIDE-TO-	I-SIDE FO-BACK -SIDE	REQUIRED (POUNDS) 0 0 0 0 0	RESISTANCE				(POUNDS) 0 0	YES YES
2ND FLOOR SIDE-TO 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT	I-SIDE FO-BACK -SIDE TACHED CALCULATION	REQUIRED (POUNDS) 0 0 0 0 S FOR PORTAL FRAME (RESISTANCE OR PERFORATED SHEA	AR WALL RESISTANCE CA	PACITIES (IF APPLICABLE),	SIDE, FT.)	(POUNDS) 0 0 0	YES YES YES
2ND FLOOR SIDE-TO IST FLOOR FRONT-T IST FLOOR SIDE-TO- "NOTES: 1) SEE ATT 2) SEE SHEET S1 FO	-SIDE FO-BACK -SIDE ACHED CALCULATION: R INTERIOR STEEL X-B	REQUIRED (POUNDS) 0 0 0 0 S FOR PORTAL FRAME (BRACE INSTALLATION, 3	RESISTANCE OR PERFORATED SHEAD) INTERIOR WALLS SHE	AR WALL RESISTANCE CA	PACITIES (IF APPLICABLE), BE ATTACHED WITH SAME STAPLE/N	SIDE, FT.)	(POUNDS) 0 0 0	YES YES YES
2ND FLOOR SIDE-TO 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT 2) SEE SHEET S1 FOI PATTERN AS EXTERI	-SIDE FO-BACK -SIDE ACHED CALCULATION: R INTERIOR STEEL X-B IOR OSB ON SAME FLO	REQUIRED (POUNDS) 0 0 0 0 S FOR PORTAL FRAME PRACE INSTALLATION, 3	RESISTANCE OR PERFORATED SHEE ON PERFORATED SHEE AND ARE ONLY APPLI	AR WALL RESISTANCE CA EATHED WITH OSB SHALL ICABLE FOR FULL-HEIGHT	PACITIES (IF APPLICABLE), BE ATTACHED WITH SAME STAPLE/N SECTIONS OF 2-8" OR LONGER	SIDE, FT.)	(POUNDS) 0 0 0 0 0	YES YES YES
2ND FLOOR SIDE-TO 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT 2) SEE SHEET S1 FOI PATTERN AS EXTERI	-SIDE FO-BACK -SIDE ACHED CALCULATION: R INTERIOR STEEL X-B IOR OSB ON SAME FLO	REQUIRED (POUNDS) 0 0 0 0 S FOR PORTAL FRAME PRACE INSTALLATION, 3	RESISTANCE OR PERFORATED SHEE ON PERFORATED SHEE AND ARE ONLY APPLI	AR WALL RESISTANCE CA EATHED WITH OSB SHALL ICABLE FOR FULL-HEIGHT JUNDATIONS; THEREFORE,	.PACITIES (IF APPLICABLE), BE ATTACHED WITH SAME STAPLE/N SECTIONS OF 2'-B" OR LONGER ,NO INTERIOR BRACKING PER 2012 IR:	SIDE, FT.)	(POUNDS) 0 0 0 0 0	YES YES YES
2ND FLOOR SIDE-TO 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT 2) SEE SHEET S1 FOI PATTERN AS EXTERI	-SIDE TO-BACK -SIDE -SIDE -ACHED CALCULATION: R INTERIOR STEEL X-B IOR OSB ON SAME FLC ING ACHIEVED AT EXT	REQUIRED (POUNDS) 0 0 0 S FOR PORTAL FRAME OF ANTAL STABLE ABOVE (SEE TABLE ABOVE ERIOR WALLS AND WA	RESISTANCE OR PERFORATED SHEE ON PERFORATED SHEE AND ARE ONLY APPLI	AR WALL RESISTANCE CA EATHED WITH OSB SHALL ICABLE FOR FULL-HEIGHT	.PACITIES (IF APPLICABLE), BE ATTACHED WITH SAME STAPLE/N SECTIONS OF 2'-B" OR LONGER ,NO INTERIOR BRACKING PER 2012 IR:	SIDE, FT.)	(POUNDS) 0 0 0 0 0	YES YES YES
2ND FLOOR SIDE-TO 1ST FLOOR FRONT-1 1ST FLOOR SIDE-TO- "NOTES: 1) SEE ATT- 2) SEE SHEET S1 FO! PATTERN AS EXTERI ALL LATERAL BRAC	-SIDE TO-BACK -SIDE ACHED CALCULATION: R INTERIOR STEEL X-B IOR OSB ON SAME FLC ING ACHIEVED AT EXT	REQUIRED (POUNDS) 0 0 0 0 S FOR PORTAL FRAME (PARACE INSTALLATION, 3) 000 (SEE TABLE ABOVE FRIOR WALLS AND WA	RESISTANCE OR PERFORATED SHEA OR PERFORATED SHEA ON PERFORATED SHEA ONLY APPLIA LLS DIRECTLY ON FOU	AR WALL RESISTANCE CA CATHED WITH OSB SHALL (CABLE FOR FULL-HEIGHT JNDATIONS; THEREFORE, WIND UPLIFT	.PACITIES (IF APPLICABLE), BE ATTACHED WITH SAME STAPLE/N SECTIONS OF 2'-B" OR LONGER ,NO INTERIOR BRACKING PER 2012 IR:	SIDE, FT.)	(POUNDS) 0 0 0 0 0	YES YES YES
2ND FLOOR SIDE-TO 1ST FLOOR FRONT-1 1ST FLOOR SIDE-TO- "NOTES: 1) SEE ATT- 2) SEE SHEET S1 FO! PATTERN AS EXTERI ALL LATERAL BRAC	-SIDE TO-BACK -SIDE -SIDE -ACHED CALCULATION: R INTERIOR STEEL X-B IOR OSB ON SAME FLC ING ACHIEVED AT EXT	REQUIRED (POUNDS) 0 0 0 S FOR PORTAL FRAME (BRACE INSTALLATION, 3 IOR (SEE TABLE ABOVE FERIOR WALLS AND WA DEGREES 30.3	RESISTANCE OR PERFORATED SHEA OR PERFORATED SHEA ON PERFORATED SHEA ONLY APPLIA LLS DIRECTLY ON FOU	AR WALL RESISTANCE CA EATHED WITH OSB SHALL ICABLE FOR FULL-HEIGHT JUNDATIONS; THEREFORE,	.PACITIES (IF APPLICABLE), BE ATTACHED WITH SAME STAPLE/N SECTIONS OF 2'-B" OR LONGER ,NO INTERIOR BRACKING PER 2012 IR:	SIDE, FT.)	(POUNDS) 0 0 0 0 0	YES YES YES
2ND FLOOR SIDE-TO 1ST FLOOR FRONT-1 1ST FLOOR SIDE-TO- "NOTES: 1) SEE ATT- 2) SEE SHEET S1 FO! PATTERN AS EXTERI ALL LATERAL BRAC	-SIDE TO-BACK SIDE TO-BACK SIDE TACHED CALCULATION: R INTERIOR STEEL X-B IOR OSB ON SAME FLC ING ACHIEVED AT EXT X/12 7	REQUIRED (POUNDS) 0 0 0 0 SFOR PORTAL FRAME RACE INSTALLATION, 3 FOR (SEE TABLE ABOVE FERIOR WALLS AND WA DEGREES 30.3 ASCE 7	RESISTANCE OR PERFORATED SHEAD INTERIOR WALLS SHE JAND ARE ONLY APPLIALLS DIRECTLY ON FOU	AR WALL RESISTANCE CA ATHED WITH OSB SHALL (CABLE FOR FULL-HEIGHT INDATIONS; THEREFORE, WIND UPLIFT EOH -13.3, E -7.2, G -5.2	.PACITIES (IF APPLICABLE), BE ATTACHED WITH SAME STAPLE/N SECTIONS OF 2'-B" OR LONGER ,NO INTERIOR BRACKING PER 2012 IR:	SIDE, FT.)	(POUNDS) 0 0 0 0 0	YES YES YES
2ND FLOOR SIDE-TO 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT 2) SEE SHEET S1 FOI PATTERN AS EXTERI	-SIDE TO-BACK -SIDE ACHED CALCULATION: R INTERIOR STEEL X-B IOR OSB ON SAME FLC ING ACHIEVED AT EXT	REQUIRED (POUNDS) 0 0 0 S FOR PORTAL FRAME (BRACE INSTALLATION, 3 IOR (SEE TABLE ABOVE FERIOR WALLS AND WA DEGREES 30.3	RESISTANCE OR PERFORATED SHEA OR PERFORATED SHEA ON PERFORATED SHEA ONLY APPLIA LLS DIRECTLY ON FOU	AR WALL RESISTANCE CA CATHED WITH OSB SHALL (CABLE FOR FULL-HEIGHT JNDATIONS; THEREFORE, WIND UPLIFT	.PACITIES (IF APPLICABLE), BE ATTACHED WITH SAME STAPLE/N SECTIONS OF 2'-B" OR LONGER ,NO INTERIOR BRACKING PER 2012 IR:	SIDE, FT.)	(POUNDS) 0 0 0 0 0	YES YES YES
2) SEE SHEET S1 FOI PATTERN AS EXTERI ALL LATERAL BRAC ROOF PITCH (MAX)	-SIDE TO-BACK SIDE TO-BACK SIDE TACHED CALCULATION: R INTERIOR STEEL X-B IOR OSB ON SAME FLC ING ACHIEVED AT EXT X/12 7	REQUIRED (POUNDS) 0 0 0 S FOR PORTAL FRAME RACE INSTALLATION, 3 DOR (SEE TABLE ABOVE ERIOR WALLS AND WA DEGREES 30.3 ASCE 7 PRESSURE (PSF)	OR PERFORATED SHE. OR PERFORATED SHE. OR NETFOR WALLS SHE OR AND ARE ONLY APPLIALLS DIRECTLY ON FOU	AR WALL RESISTANCE CA ATHED WITH OSB SHALL (CABLE FOR FULL-HEIGHT UNDATIONS; THEREFORE, WIND UPLIFT EOH-13.3, E-7.2, G-5.2 UPLIFT PER FT* (LBS)	PACITIES (IF APPLICABLE). BE ATTACHED WITH SAME STAPLEN SECTIONS OF 2-8" OR LONGER NO NITERIOR BRACING PER 2012 IR ANALYSIS	SIDE, FT.)	(POUNDS) 0 0 0 0 0	YES YES YES YES YES

NOTE FOR CONSTRUCTION:
THE CONTINUOUS STRUCTURAL PANEL SHEATHING BRACING METHOD REQUIRES USE OF THE ABOVE TABLE FOR SHEATHING OF THE ENTIRE STRUCTURE. IN ADDITION, FRAMING MEMBERS SHALL BE @ 16" O.C. MAX, UNBLOCKED, AND W SHEATHING APPLIED DIRECTLY TO FRAMING MEMBERS

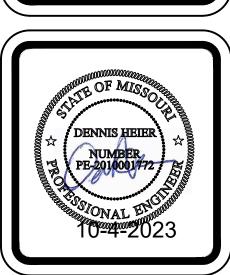
NOTE FOR DESIGN:
ALL WALLS USED IN THE CALCULATION OF THE RESISTANCE FOR THIS STRUCTURE SHALL HAVE A MINIMUM UNINTERRUPTED HEIGHT OF 8-0" AND LENGTH OF 2-8". ALLOWABLE RESISTANCES HAVE BEEN #FT AND INCREASED BY 40% FOR WIND LOADS, PER VALUES IN 2012 IBC SECTION 2306 AND AF&PA SDPWS TABLE 4.3A. FOR EXAMPLE, 7/16" APA-RATED SHEATHING WITH 8d @ 6" & 12" HAS A SEISMIC SHEAR VALUE OF 240 A WIND SHEAR VALUE OF 335#FT - 40% GREATER THAN THAT OF SEISMIC)

NOTE: SOIL SITE CLASS ASSUMED TO BE CLASS D. IF SITE CONDITIONS ARI DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION

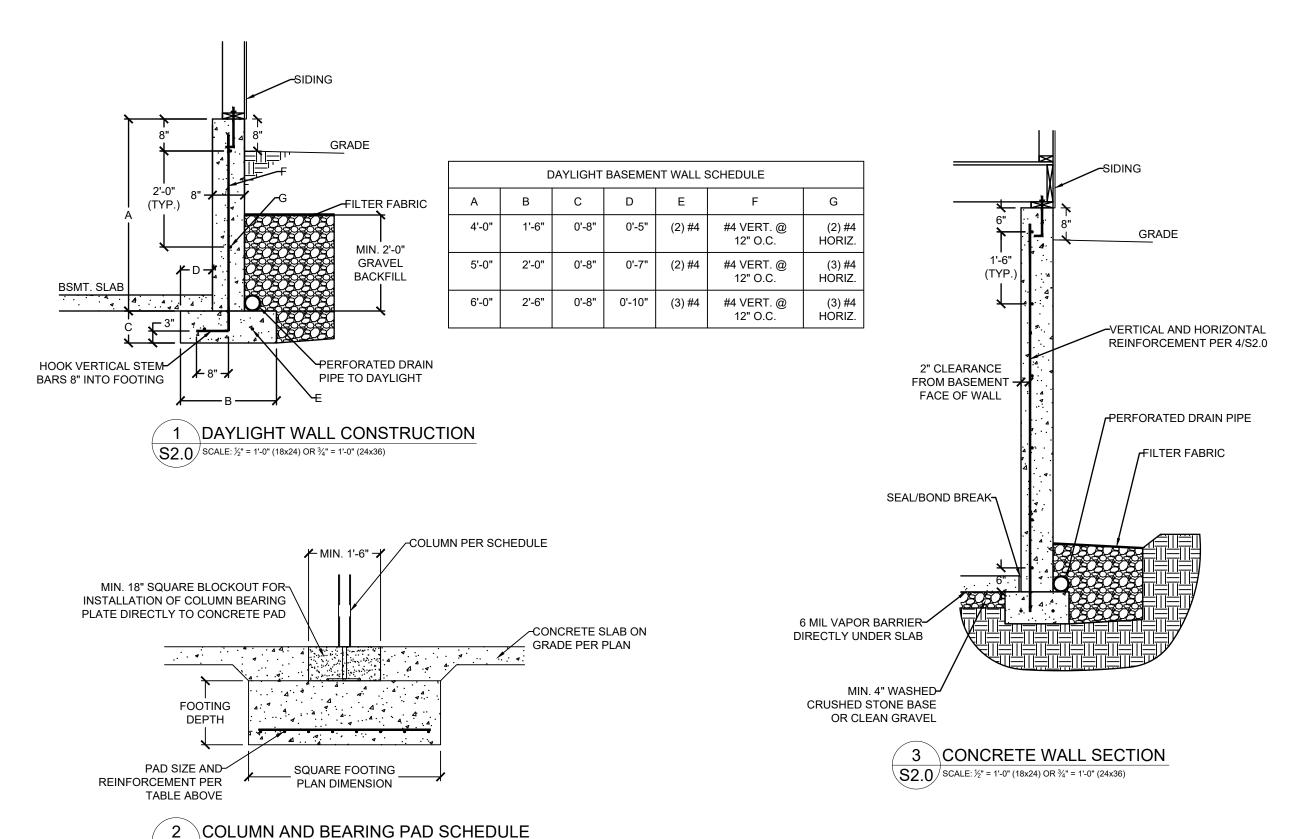


SPEC SUMMIT VIEW FARMS WOOD BROTHERS, INC SVF075 3 LOT 75, 3 CLIENT: E JOB

2302 SW SERENA PLACE. LEE'S SUMMIT, MISSOURI



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VERTICAL REINFORCEMENT SPACING 10" THICK WALL CONCRETE STRENGTH/GRADE 8" THICK WALL REINFORCEMENT (#4 BARS) 9' 9' 10' 8' 10' 8' 3.000 PSI/ GRADE 40 24 24 16 24 24 18 3,500 PSI/ GRADE 40 24 24 18 16 24 24 3,000 PSI/ GRADE 60 24 24 24 18 16 24 3,500 PSI/ GRADE 60 24 24 24 18 24 16 HORIZONTAL REINFORCEMENT - MINIMUM GRADE 40 STEEL ONE BAR 12" FROM TOP OF WALL; 6-#4 7-#4 7-#4 6-#4 7-#4 7-#4 MAX. SPACING 24" OC

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 SPACING 24" OC, REINFORCEMENT MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER WALLS SHALL HAVE VERTICAL REINFORCEMENT AS FOLLOWS:

A) 8" WALL - MINIMUM 5" FROM THE OUTSIDE FACE

B) 10" WALL - MINIMUM 6%" FROM THE OUTSIDE FACE C) EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL

3) REINFORCEMENT CLEARANCES:

A) CONCRETE EXPOSED TO EARTH - MINIMUM 11/2"

B) NOT EXPOSED TO WEATHER (INTERIOR SIDE OF WALLS) - $\frac{3}{4}$ " C) CONCRETE EXPOSED TO WEATHER (TOP CLEARANCE IN GARAGE AND DRIVEWAY

SLABS) - 1½"
4) HORIZONTAL REINFORCEMENT:

A) ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL

B) OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" OC C) HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR) AND BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE

D) SUPPLEMÉNTAL REINFORCEMENT AT CORNERS - PLACE (1) #4 BAR 48" LONG AT 45
DEGREE ANGLE AT CORNERS OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF
THE EDGE OF INSIDE CORNERS.

5) REINFORCEMENT SHALL BE LAPPED A MINIMUM 24" AT ENDS, SPLICES, AND AROUND CORNERS.

6) AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 3½". LEDGES SHALL NOT EXCEED A DEPTH OF MORE THAN 24" BELOW THE TOP OF THE WALL. FOR WALL THICKNESSES LESS THAN 4" PROVIDE #4 BARS AT MAX. 24" OC TO WITHIN 8" OF THE TOP OF THE WALL.

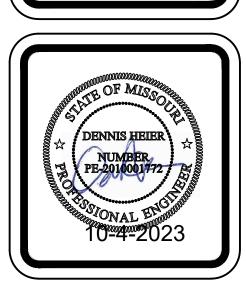
7) STRAIGHT WALLS MORE THAN 5' TALL AND MORE THAN 16 FEET LONG SHALL BE PROVIDED WITH EXTERIOR BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS

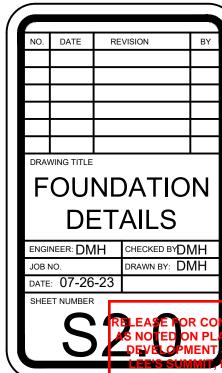
8) WALL SHALL NOT BE BACKFILLED UNTIL FLOOR SYSTEM AND DIAPHRAGM ARE IN PLACE

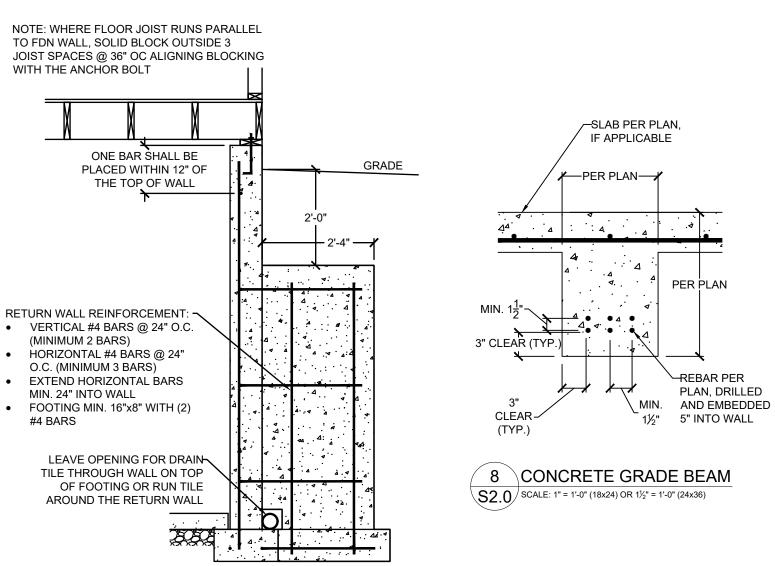
4 FOUNDATION WALL REINFORCEMENT TABLE S2.0 NO SCALE

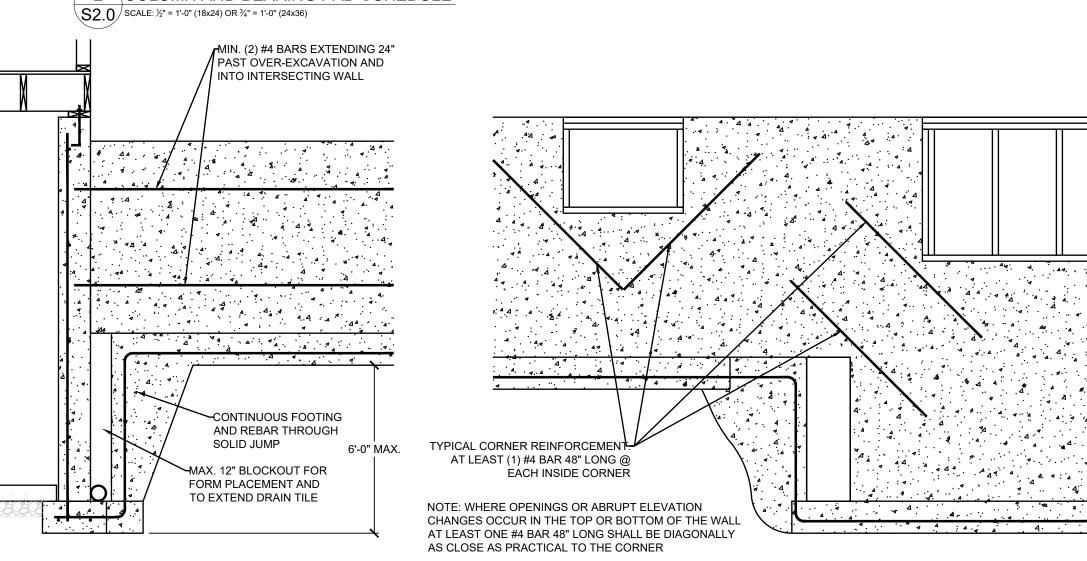


JOB TITLE: SVF075 SPEC
LOT 75, SUMMIT VIEW FARMS
LOCATION: 2302 SW SERENA PLACE.
LEE'S SUMMIT, MISSOURI









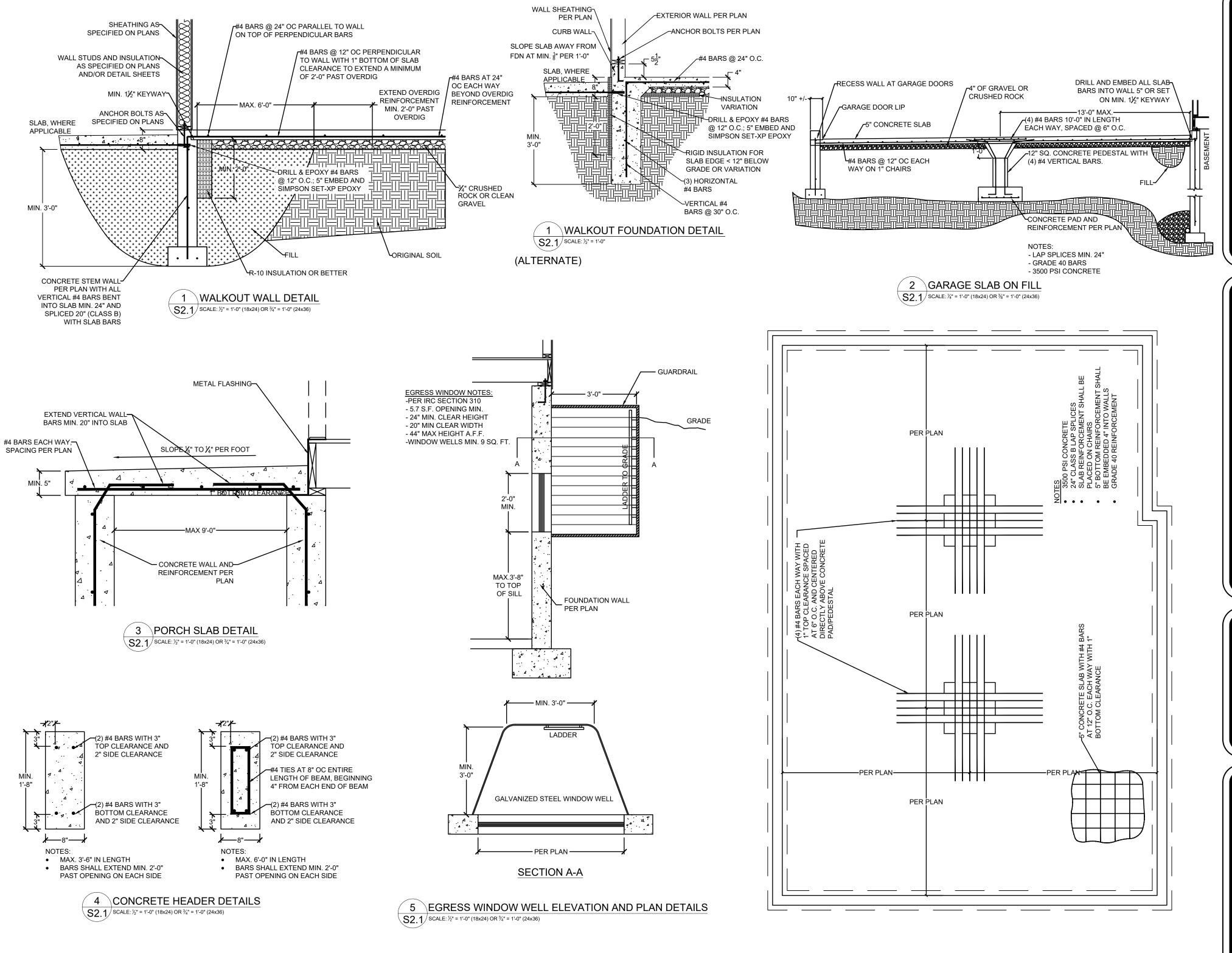
5 \SOLID JUMP

\$2.0\scale=1'-0" (18x24) OR \%" = 1'-0" (24x36)

6 REINFORCEMENT AT OPENING CORNERS
S2.0 AND STEP CORNERS @ INSIDE CORNERS

SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)

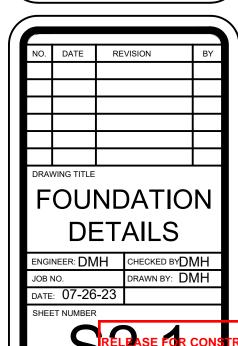
7 RETURN WALL DETAIL S2.0 SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)



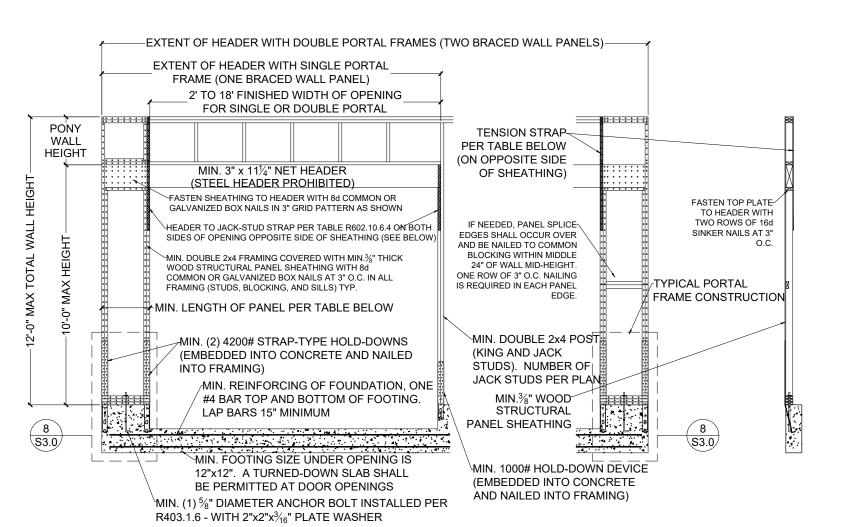


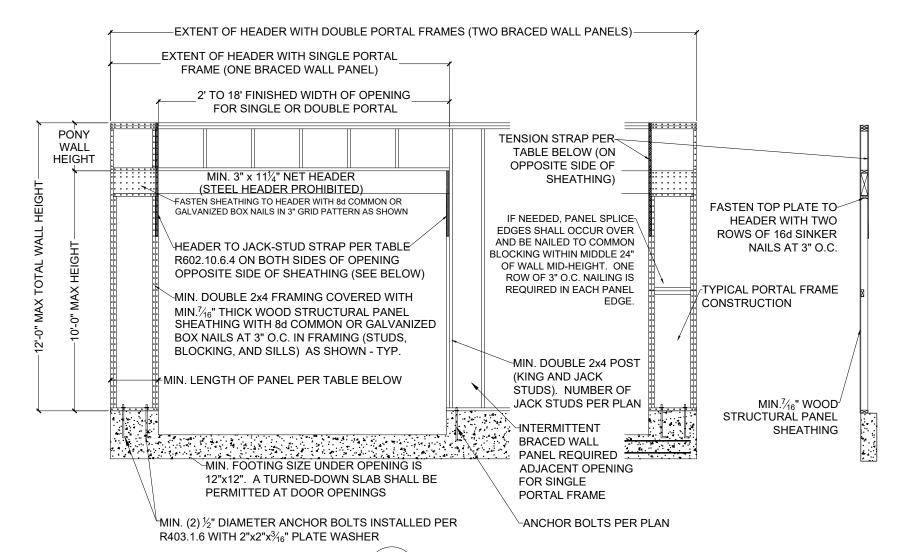
CLIENT: WOOD BROTHERS, INC
JOB TITLE: SVF075 SPEC
LOT 75, SUMMIT VIEW FARMS
LOCATION: 2302 SW SERENA PLACE.
LEE'S SUMMIT, MISSOURI





10/05/2023 3:44:16



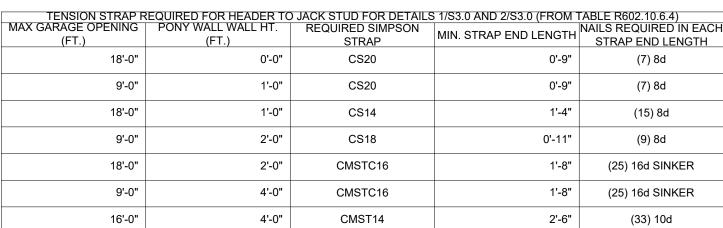


1 \METHOD PFH (PORTAL FRAME WITH

S3.0/HOLD-DOWNS) - PER FIGURE IRC R602.10.6.2

SCALE: ½" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)

	MINIMUM PANEL LENGTH FOR DETAIL 1/S3.0 (INCHES)				
	WALL HEIGHT				
	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET
SUPPORTING ROOF ONLY	16	16	16	18	20
SUPPORTING ONE STORY AND ROOF	24	24	24	27	29



PLAN

5 SHEATHING EDGE AT HORIZONTAL

SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

S3.0/FRAMING MEMBER

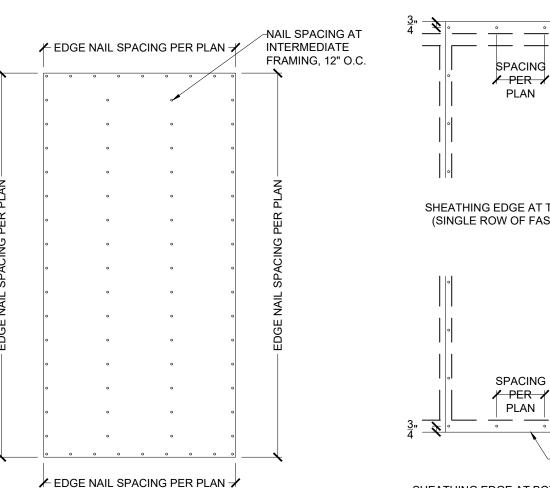
PANEL EDGE



SCALE: ½" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)

MINIMUM PANEL LENGTH FOR DETAIL 2/S3.0 (INCHES				
	V '	ALLTILIOTI	1	
8 FEET	9 FEET	10 FEET	11 FEET	12 FEET
24	27	30	33 ^a	36 ^a

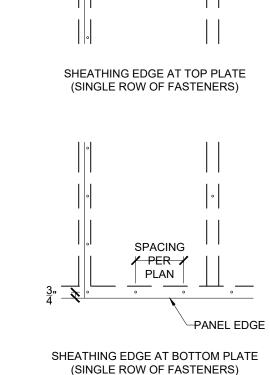
a. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height may be increased to 12 feet with pony wall

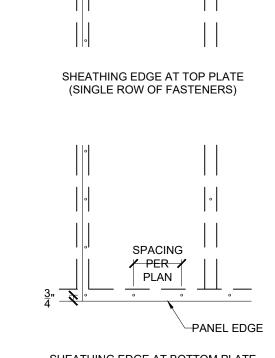


3 EXTERIOR WALL SHEATHING

SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)

S3.0/PANEL ATTACHMENT



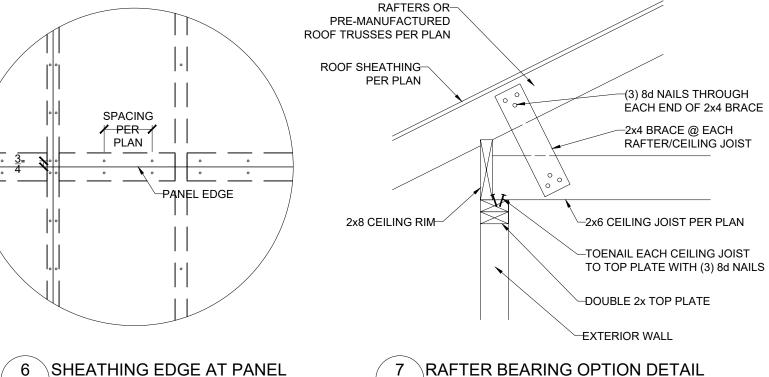




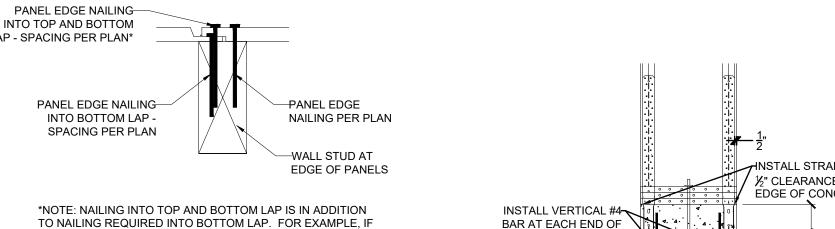
LAP - SPACING PER PLAN* PANEL EDGE NAILING-PANEL EDGE INTO BOTTOM LAP -SPACING PER PLAN WALL STUD AT

> *NOTE: NAILING INTO TOP AND BOTTOM LAP IS IN ADDITION TO NAILING REQUIRED INTO BOTTOM LAP. FOR EXAMPLE, IF PLAN CALLS FOR NAILS @ 6" O.C. AT EDGES, BOTTOM LAP SHALL BE FASTENED AT 6" O.C AND, IN ADDITION, NAILING SHALL ALSO BE INSTALLED THROUGH TOP AND BOTTOM LAP @ 6" O.C. STAGGERED 3" FROM BOTTOM LAP NAILING

8 FASTENING INSTRUCTIONS FOR S3.0/SHIPLAP PANEL SHEATHING SCALE: 4" = 1'-0" (18x24) OR 6" = 1'-0" (24x36)



7 RAFTER BEARING OPTION DETAIL $\sqrt{3.0}$ SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



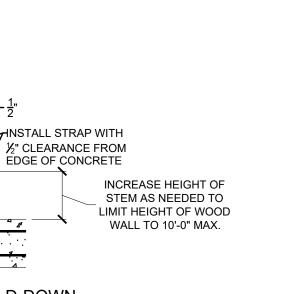
CONCRETE WALL STEM

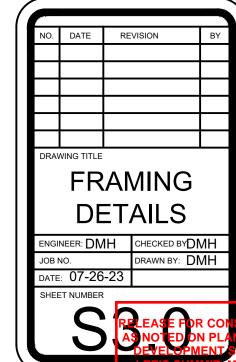
S3.0/SPLICE ACROSS STUDS

SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

9 GARAGE HOLD-DOWN S3.0/STRAP INSTALLATION

SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)



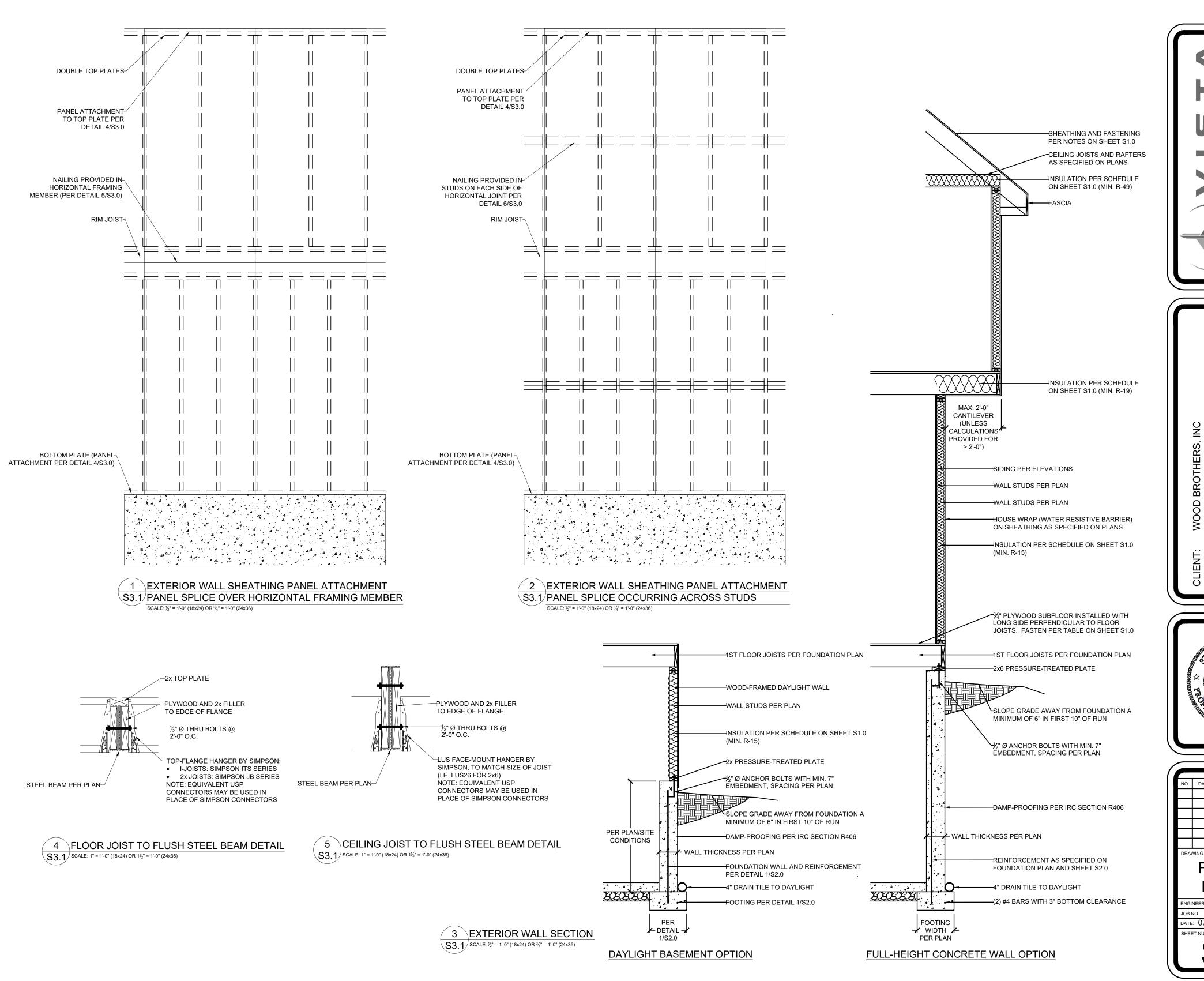


VIEW FARMS N SERENA PLA SUMMIT, MISSO SPEC SUMMIT SVF075 LOT 75, WOOD 2302 LEE'S .: 0 JOB

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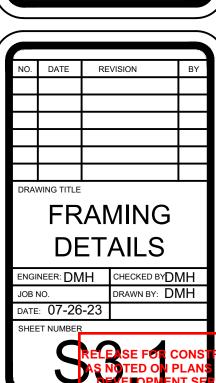
DENNIS HEIER PE-2010001772

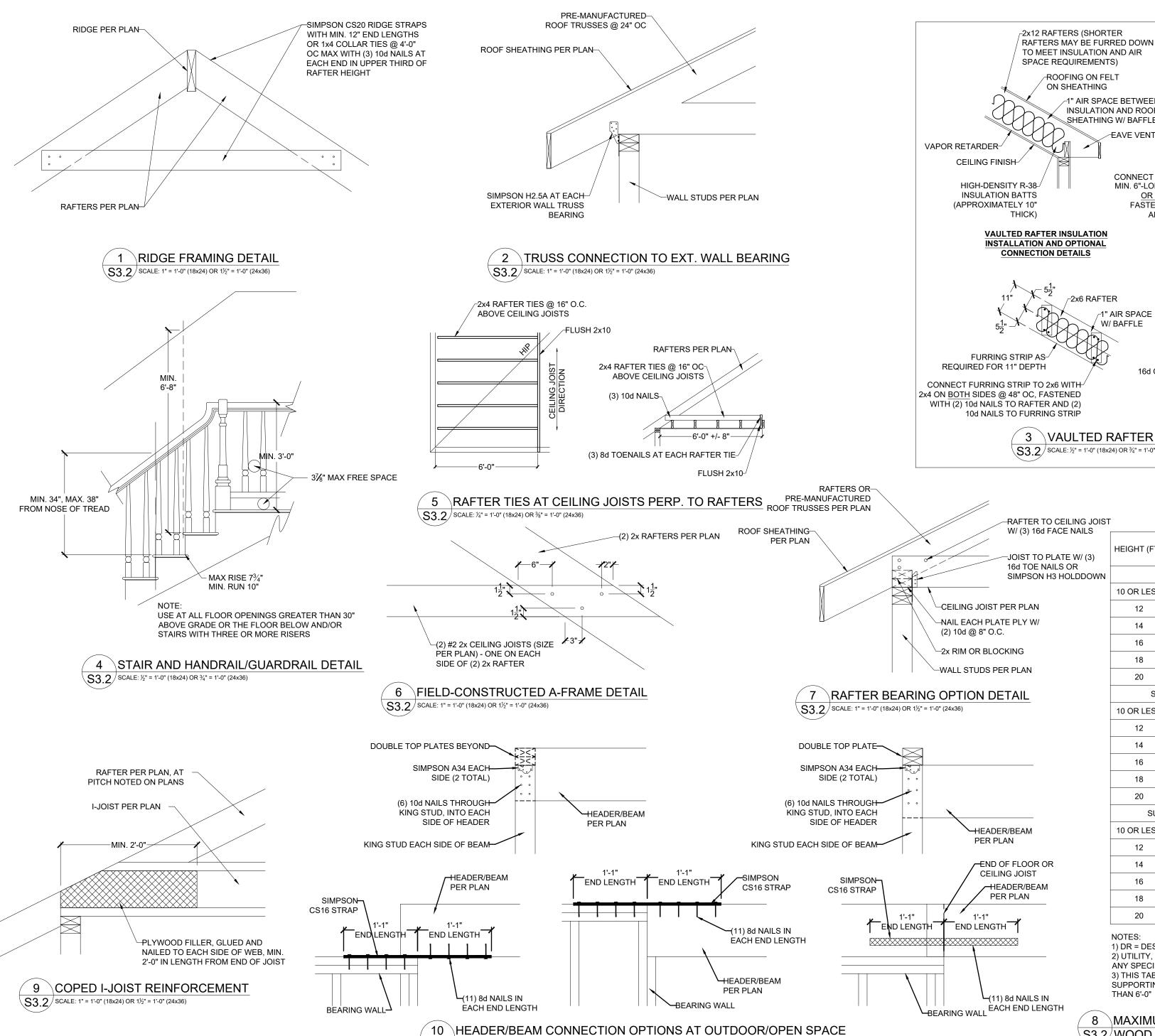




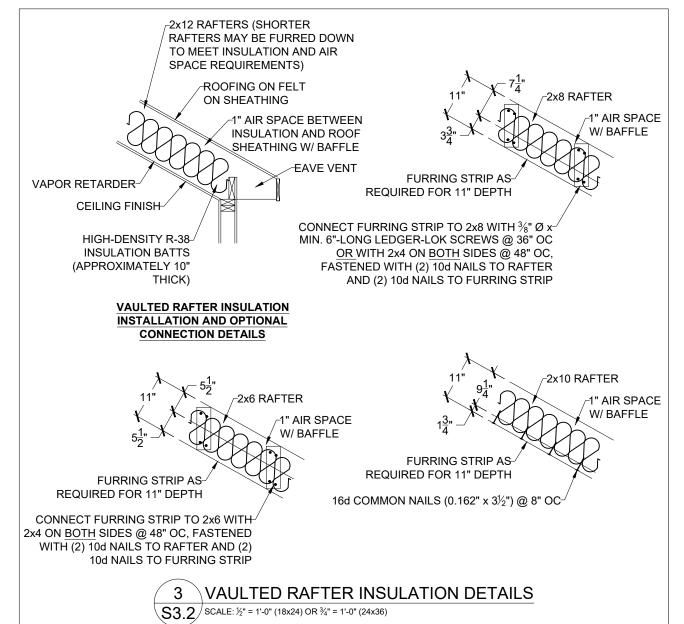
CLIENT: WOOD BROTHERS, INC
JOB TITLE: SVF075 SPEC
LOT 75, SUMMIT VIEW FARMS
LOCATION: 2302 SW SERENA PLACE.
LEE'S SUMMIT, MISSOURI

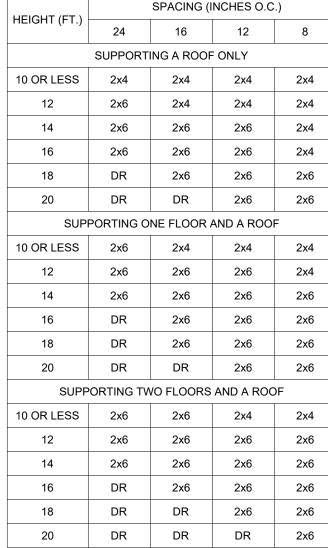






\$3.2 SCALE: 1" = 1'-0" (18x24) OR $1\frac{1}{2}$ " = 1'-0" (24x36)



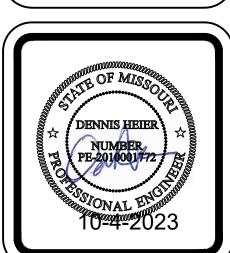


1) DR = DESIGN REQUIRED 2) UTILITY, STANDARD, STUD AND #3 GRADE LUMBER OF ANY SPECIES ARE NOT PERMITTED 3) THIS TABLE DOES NOT APPLY FOR STUDS SUPPORTING MEMBERS WITH A TRIB. LENGTH GREATER

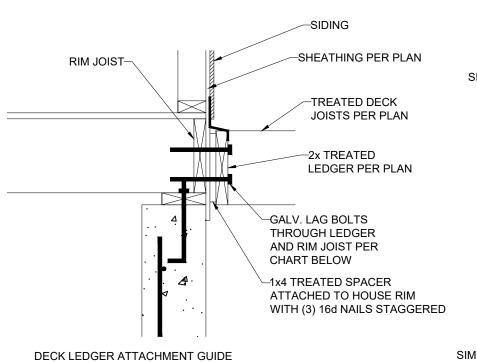
8 \MAXIMUM ALLOWABLE LENGTH OF S3.2/WOOD WALL STUDS (IRC TABLE 602.3.1)



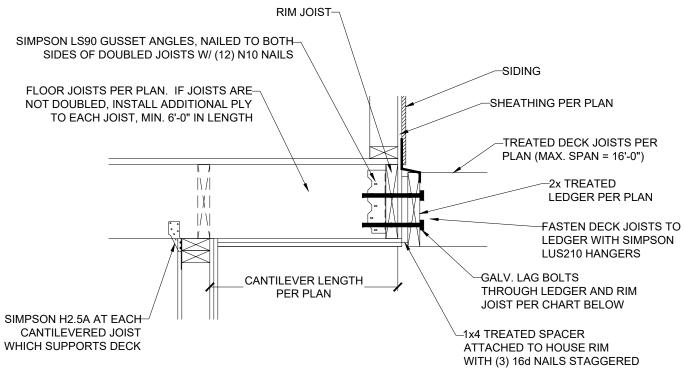
SPEC SUMMIT VIEW FARMS SW SERENA PLACE. S SUMMIT, MISSOURI SVF075 : LOT 75, :



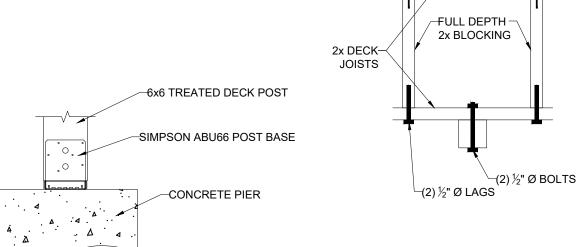
				_
NO.	DATE	RE	VISION	BY
DRAN	WING TITLE			
FRAMING				
DETAILS				
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JOB I	NO.		DRAWN BY: D	ИΗ
DATE	: 07-26	-23		

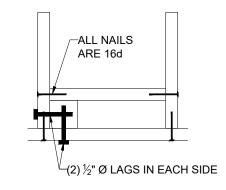


DECK JOIST SPAN	1/2" Ø GALV. LAG OR $3/8$ " Ø LEDGER-LOK SPACING
10'-0" OR LESS	16" OC
10'-0" - 13'-11"	12" OC OR @ 16" OC DOUBLED EVERY OTHER
14'-0" - 18'-0"	8" OC OR @ 16" OC DOUBLED



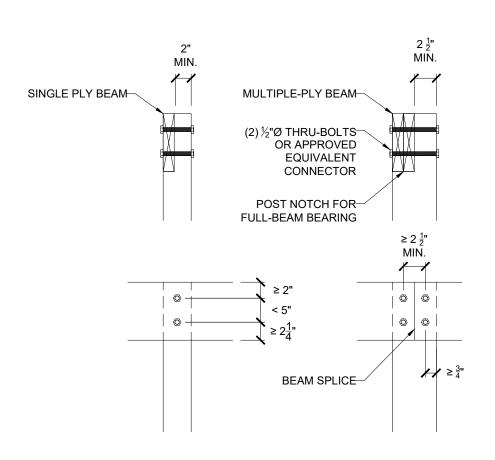
2 \CANTILEVER WITH DECK ATTACHMENT



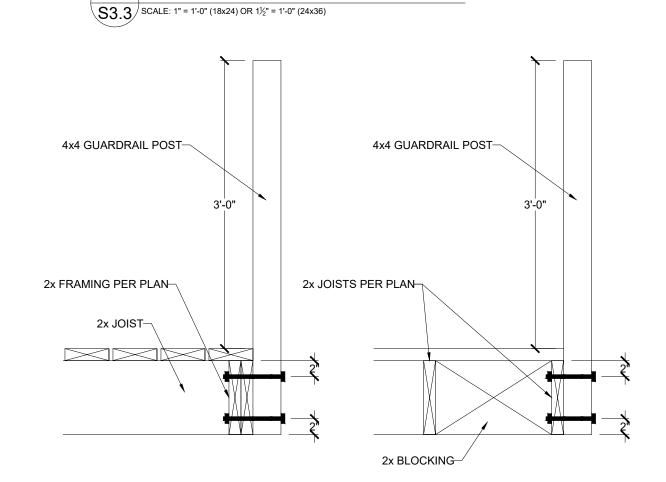


4 REINF. POST CONNECTIONS S3.3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

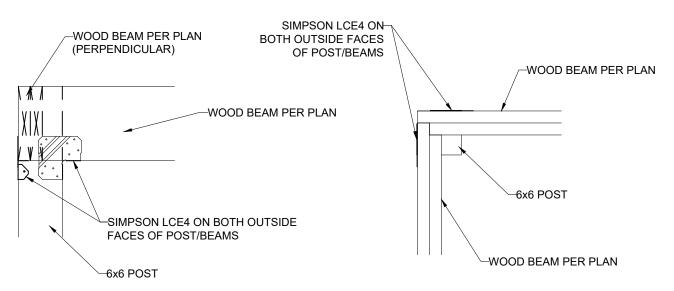
\LEDGER ATTACHMENT S3.3 | SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



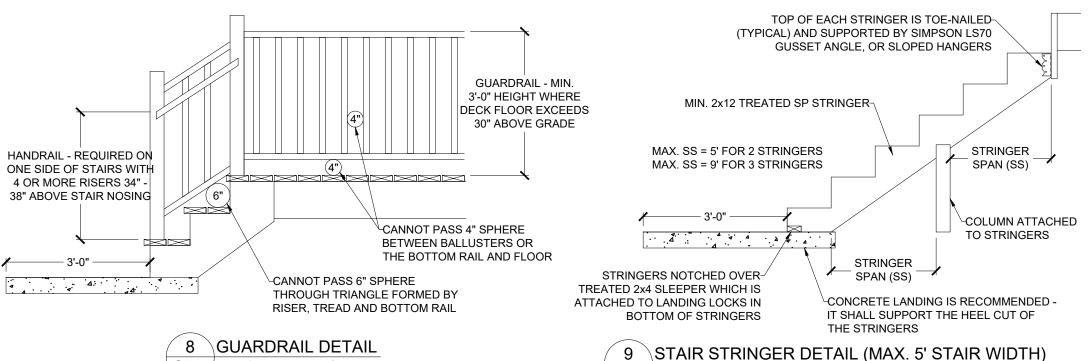
5 LET-IN (COVERED) DECK BEAM CONNECTION S3.3 SCALE: 1" = 1'-0" (18x24) OR $1\frac{1}{2}$ " = 1'-0" (24x36)



6 \GUARDRAIL CONNECTION \$3.3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



7 ALTERNATE COVERED DECK/PORCH INTERSECTION S3.3/CORNER BEAM CONNECTION SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

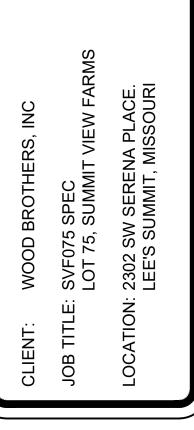


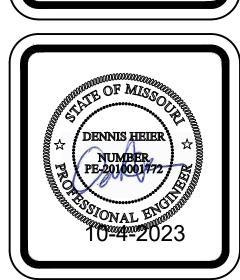
3 DECK POST BASE S3.3 SCALE: 1" = 1'-0" (18x24) OR $1\frac{1}{2}$ " = 1'-0" (24x36)

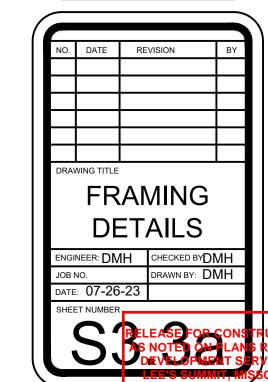
S3.3 SCALE: $\frac{1}{2}$ " = 1'-0" (18x24) OR $\frac{3}{4}$ " = 1'-0" (24x36)

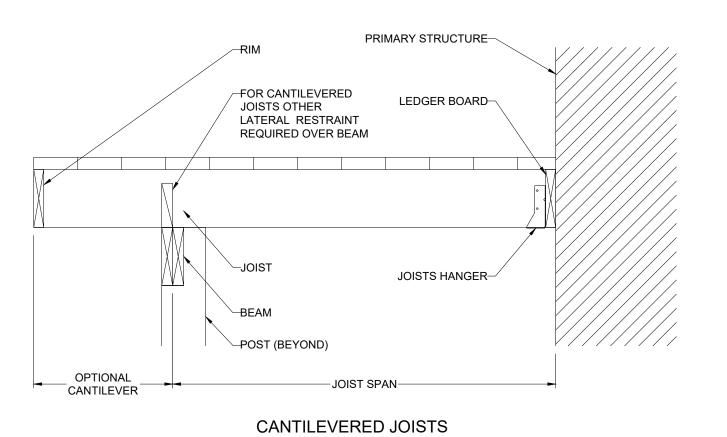


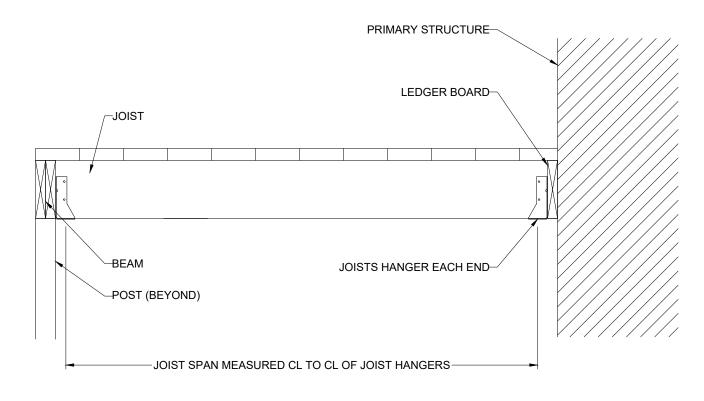




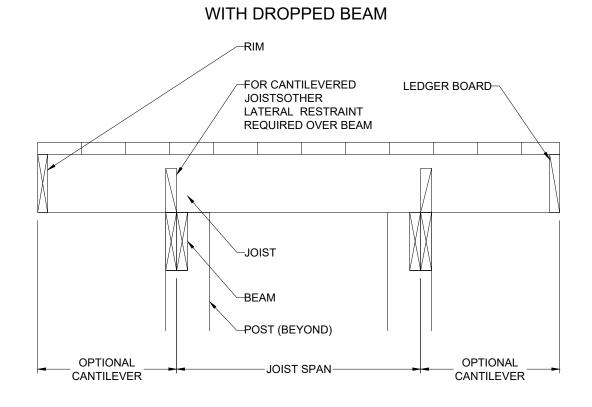


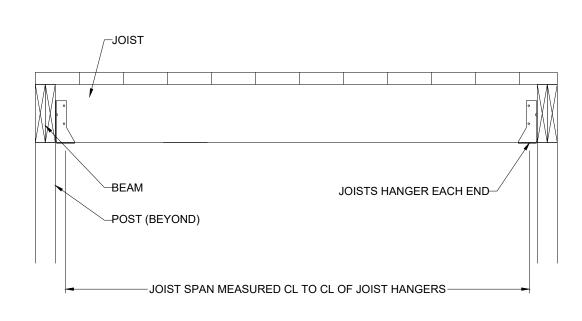






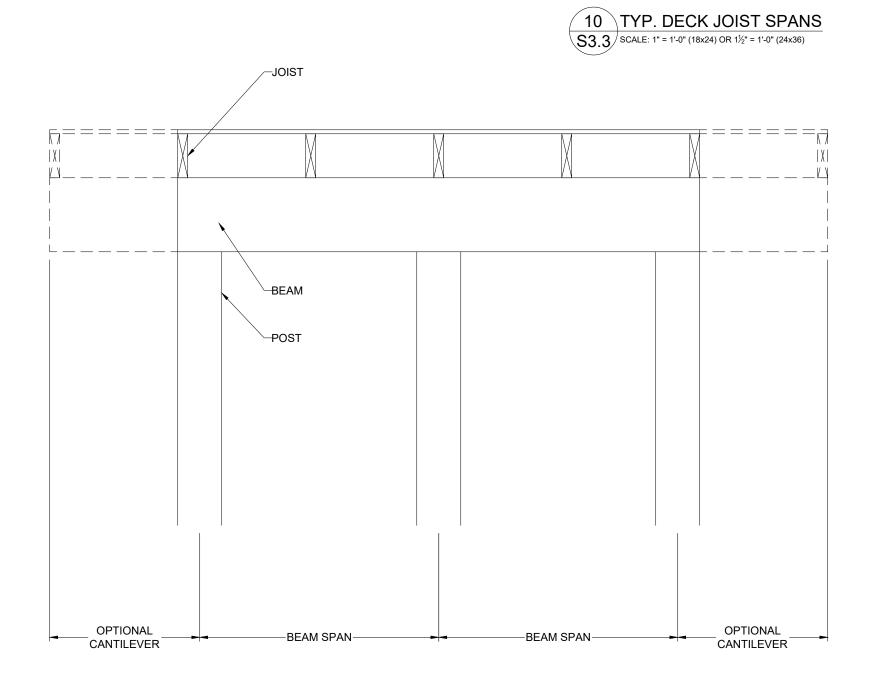
JOISTS WITH FLUSH BEAM

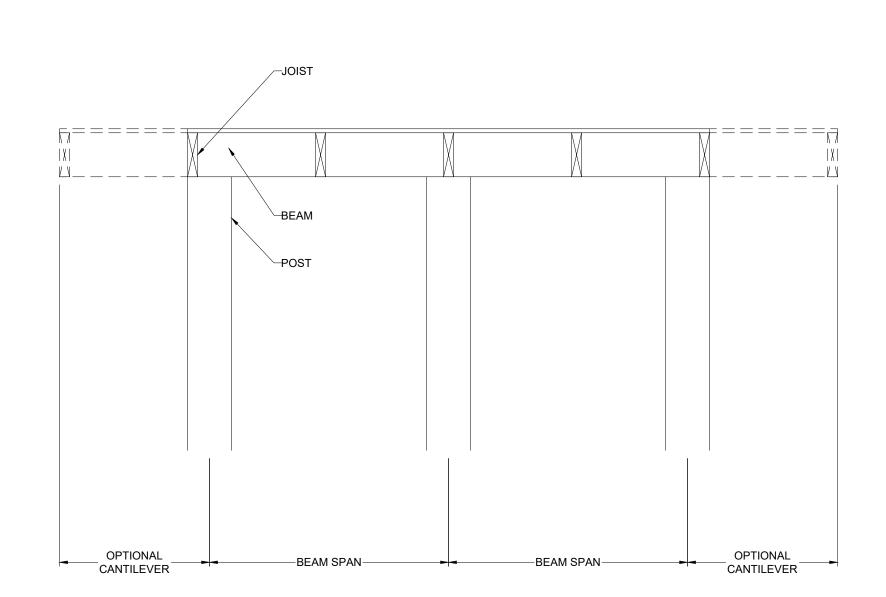


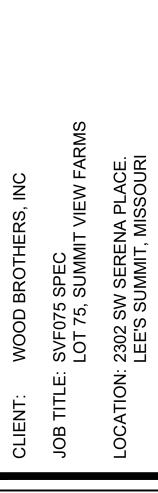


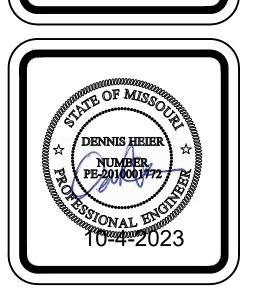
JOISTS ON FREE-STANDING DECK WITH DROPPED BEAM

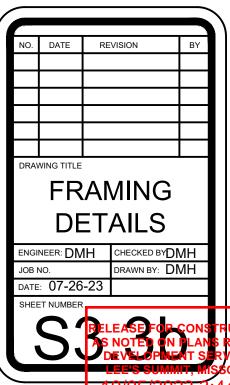
JOISTS WITH FLUSH BEAM











DROPPED BEAM FLUSH BEAM