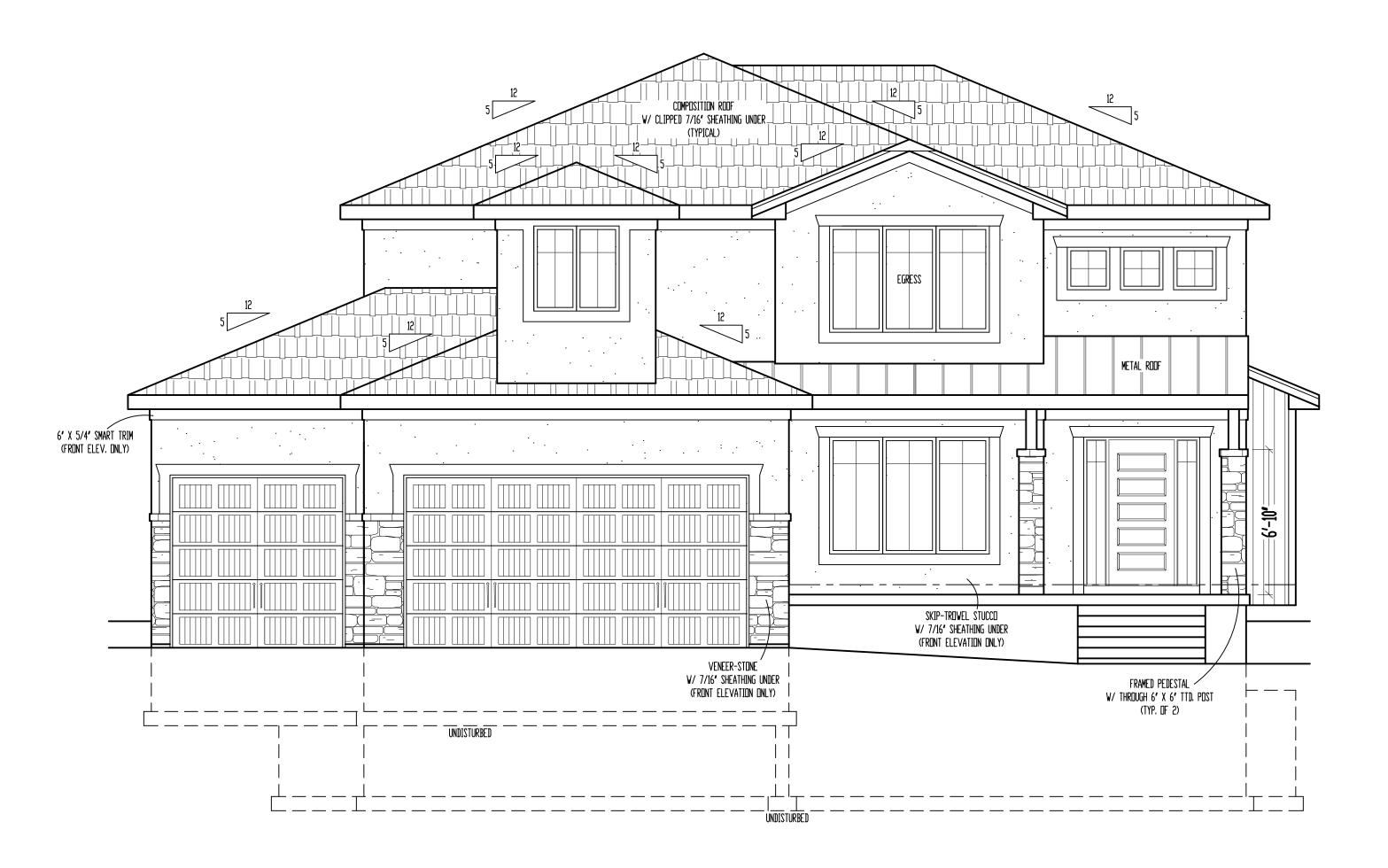
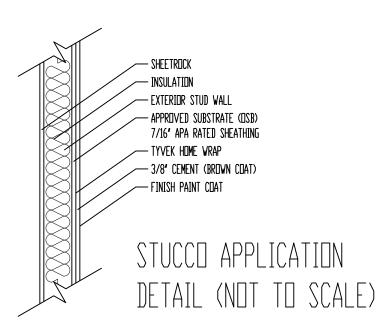
ONE-TIME-BUILD LICENSE AGREEMENT

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





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



t Residential Design, LLC.

the creation and design of this plan. However, the engineer and construction from these plans should not be note of a construction professional, architect or engineer. any on site consultation and supervision, Viewpoint Designer assume no responsibility for any damages, e to any deficiencies, omissions or error in the design or

Copyright A.D. 2021 Viewpoint Residenti
Care and effort have gone into the creati

begotten Son, that whosoever believeth in him should not perish, but have



Project Title:

HHF018 Spec
Site Description:

Lot 18, Homestead
at Hook Farms 1st
Plat

Street Address:

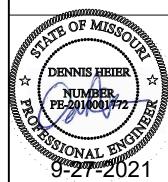
2034 SW Hook Farm

Dr., Lee's Summit,

Missouri

General Contractor:

General Contractor:
Walker Custom
Homes, LLC

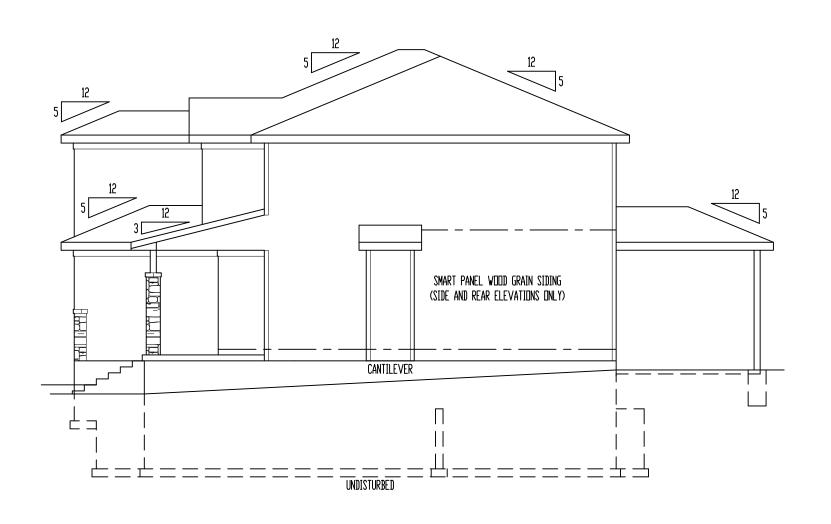


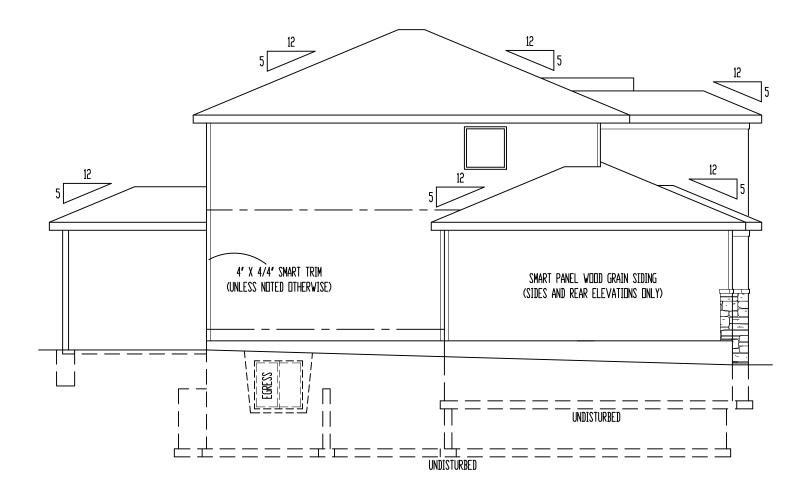
Date: 9 - 22 - AD 2021 Rev. 1: Rev. 2: Rev. 3:

Sheet Title:
FRONT
ELEVATION

Sheet No.:

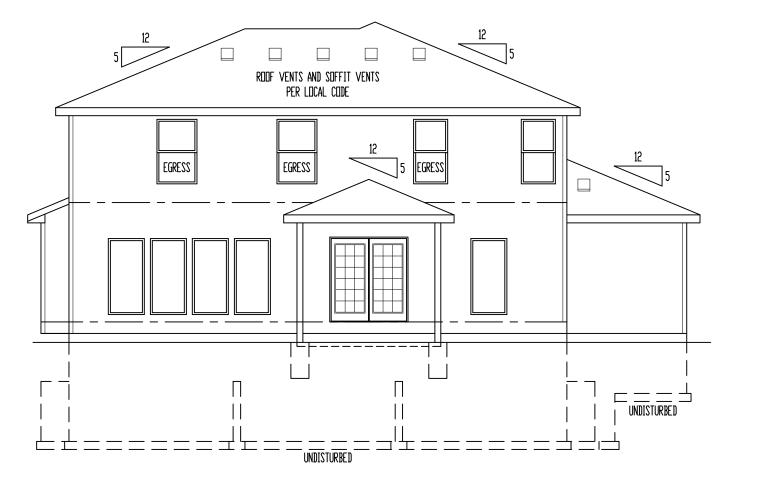
A-1
of 6





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

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



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

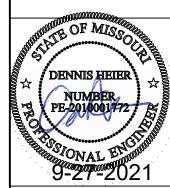
SMART PANEL WOOD GRAIN SIDING ON SIDE AND REAR ELEVATIONS
COMPOSITION ROOF SHINGLES
LOCATE ROOF AND SOFFIT VENTS PER CODE
ADJUST FOUNDATION TO GRADE

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' TTD. DECKING 6' X 6' TTD. POSTS 2' X 2' TTD. SPINDLES 2' X 6' TTD. TOP RAIL DETERMINE OPTIONAL STAIRS ON SITE

Project Title:

HHF018 Spec
Site Description:

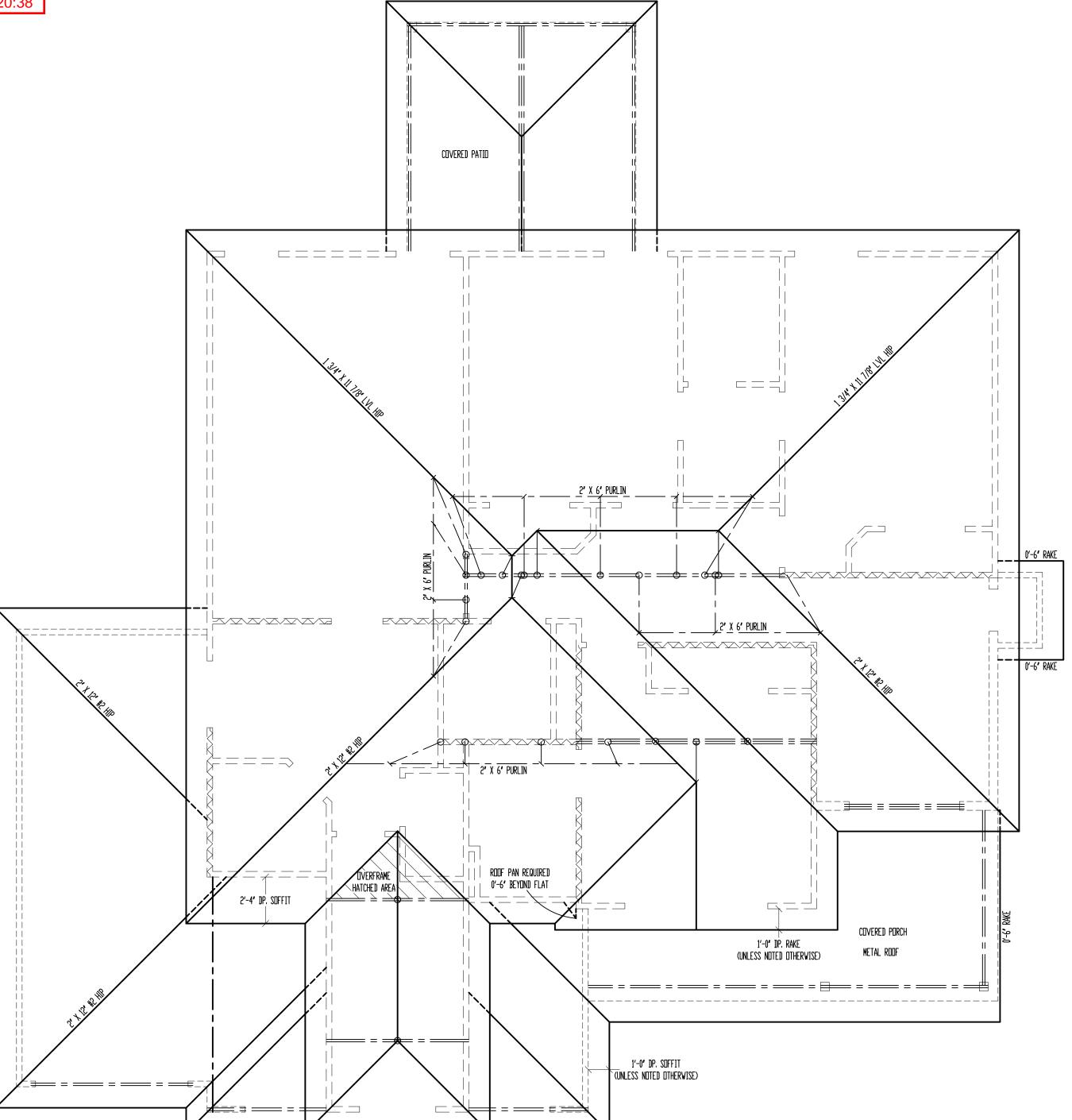
Lot 18, Homestead
at Hook Farms 1st Plat Street Address: 2034 SW Hook Farm Dr., Lee's Summit, Missouri General Contractor: Walker Custom Homes, LLC



Date: 9 - 22 - AD 2021 Rev. 1: Rev. 2: Rev. 3:

Sheet Title: SIDES & REAR **ELEVATIONS**

Sheet No.:



ROOF

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

SEE SPAN CHARTS BELOW

	CLUVE MINIMUM			
	RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN	
	#2-2x6	@24″ □.C.	11'-7 "	
$\rangle angle angle$	#2-2x6	0 16 ′ □.C.	14'-2 '] (((
	#2-2x8	@24″ □.C.	14'-8 '	
	#2-2x8	0 16 ′ □.C.	17'-11 "	
	#2-2x10	@24″ □.C.	17'-10 "	
	#2-2x10	0 16 ′ □.C.	21′-11 ″	

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

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

- #2- 2X10 OVER 10/12 PITCH

* ALL HIPS & VALLEYS ARE: (UNLESS DTHERWISE NOTED)

* PURLINS ARE 2X6 MIN.

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

- ALL PURLINS STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH OF 8'-0'

URLIN STRUT	MAX PURLIN STRUT LENGTH
(2) 2x4	8′-0 ′
2x4 & (1) 2x6	12'-0 '

(SEE PURLIN BRACE NOTES ABOVE)

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

*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.

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)]

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

CODE M	IINIM	JM		
			_	

	ODDE 1121121	1011		
	RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN	
	#2-2x6	@24 ′ □.C.	11'-7 '	
>>>	#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 ′	
	NULL! CUM	MINIMIM ALL	UNG EUD Y DYELED DEELEGTIUM	ПГ

HIGHER PERFORMANCE (RECOMMENDED)				
RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN		
#2-2x6	@24″ □.C.	8'-6 "		
#2-2x6	€16 ′ □.C.	9'-9 '		
#2-2x8	@24″ □.C.	11'-3 '		
#2-2x8 @16" D.C.		12'-9 '		
#2-2x10	@24″ □.C.	14'-3 '		
#2-2x10	€16 ′ 🛚 .C.	16'-3 '		
DEFLECTION = L/360 LIVE LOAD, L/240 TOTAL LOAD				
	RAFTERS #2-2x6 #2-2x6 #2-2x8 #2-2x8 #2-2x10 #2-2x10	RAFTERS SPACING #2-2x6 @24' D.C. #2-2x6 @16' D.C. #2-2x8 @24' D.C. #2-2x8 @16' D.C. #2-2x10 @24' D.C. #2-2x10 @16' D.C.		

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

- #2- 2X8 UP TO 10/12 PITCH - #2- 2X10 OVER 10/12 PITCH

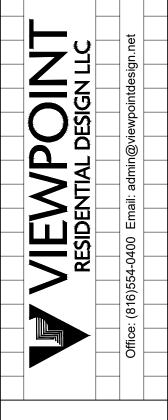
- PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS THAN A 45 DEGREE ANGLE WITH THE HORIZONTAL

- PURLINS STRUTS SHALL BE CONSTRUCTED IN A 'T' CONFIGURATION AND PER THE FOLLOWING CHART:

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 '

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

DOT IS BOTTOM OF BRACE (o). * ODENOTES BEARING WALL *---- DENOTES ROOF BRACE



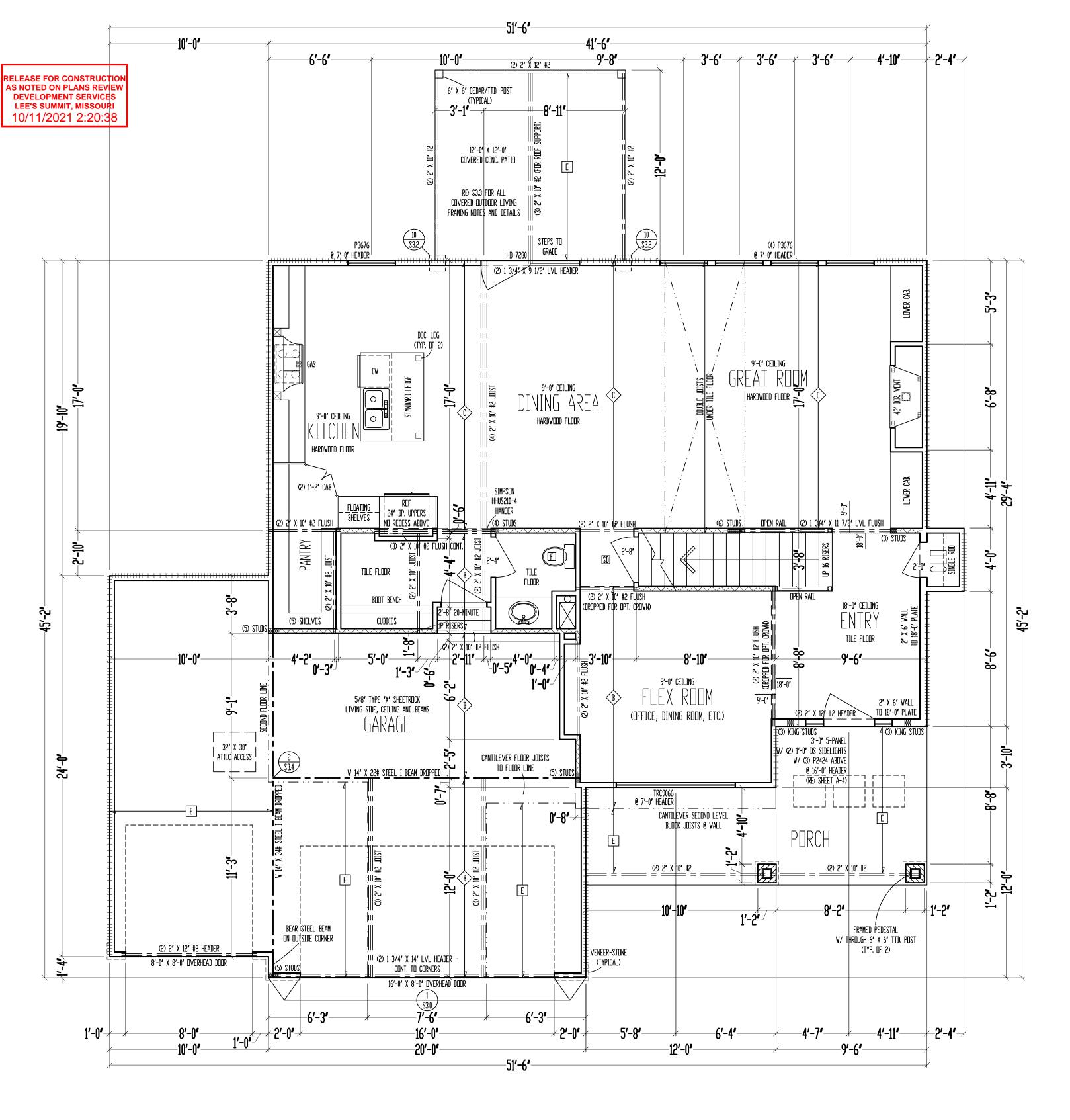
Project Title: HHF018 Spec Site Description: Lot 18, Homestead at Hook Farms 1st Plat Street Address: 2034 SW Hook Farm Dr., Lee's Summit, Missouri General Contractor: Walker Custom Homes, LLC



Date: 9 - 22 - AD 2021 Rev. 1: 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: 1163 SQ. FT.

SECOND LEVEL: 1304 SQ. FT.

TOTAL: 2467 SQ. FT.

GARAGE: 667 SQ. FT. COV. DUT/LIV: 144 SQ. FT. UNFIN. BASEMENT: 1065 SQ. FT.

RAMING NOTES

I. MAIN LEVEL EXTERIOR 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,

2. \ \ \ \ \ \ \ \ \ = G.B; 1/2' min. Gypsum bdard 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 (dr) min. 4'-0' section for both sides)

3. /\/\/\/\/\/\\ = LDAD 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
7. BLOCK JOISTS AROVE BEAMS, CANTILEVER

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 OPENINGS

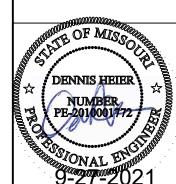
		JOIST SCHEDULE
(A)	>	2" X 10" #3 FLOOR JOIST @ 16" D.C.
\bigcirc B	>	2' X 10' #2 FLOOR JOIST @ 16' 0.C.
¢	>	2" X 10" #2 FLOOR JOIST @ 16" D.C DOUBLE EVERY OTHER
D]	2" X 6" #3 CEILING J□IST € 16" □.C.
E		2' X 6' #2 CEILING JOIST @ 16' D.C.

lans and specifications are protected under A.D. 2021 Viewpoint Residential Design

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

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

HHF018 Spec
Site Description:
Lot 18, Homestead
at Hook Farms 1st
Plat
Street Address:
2034 SW Hook Farm
Dr., Lee's Summit,
Missouri
General Contractor:
Walker Custom



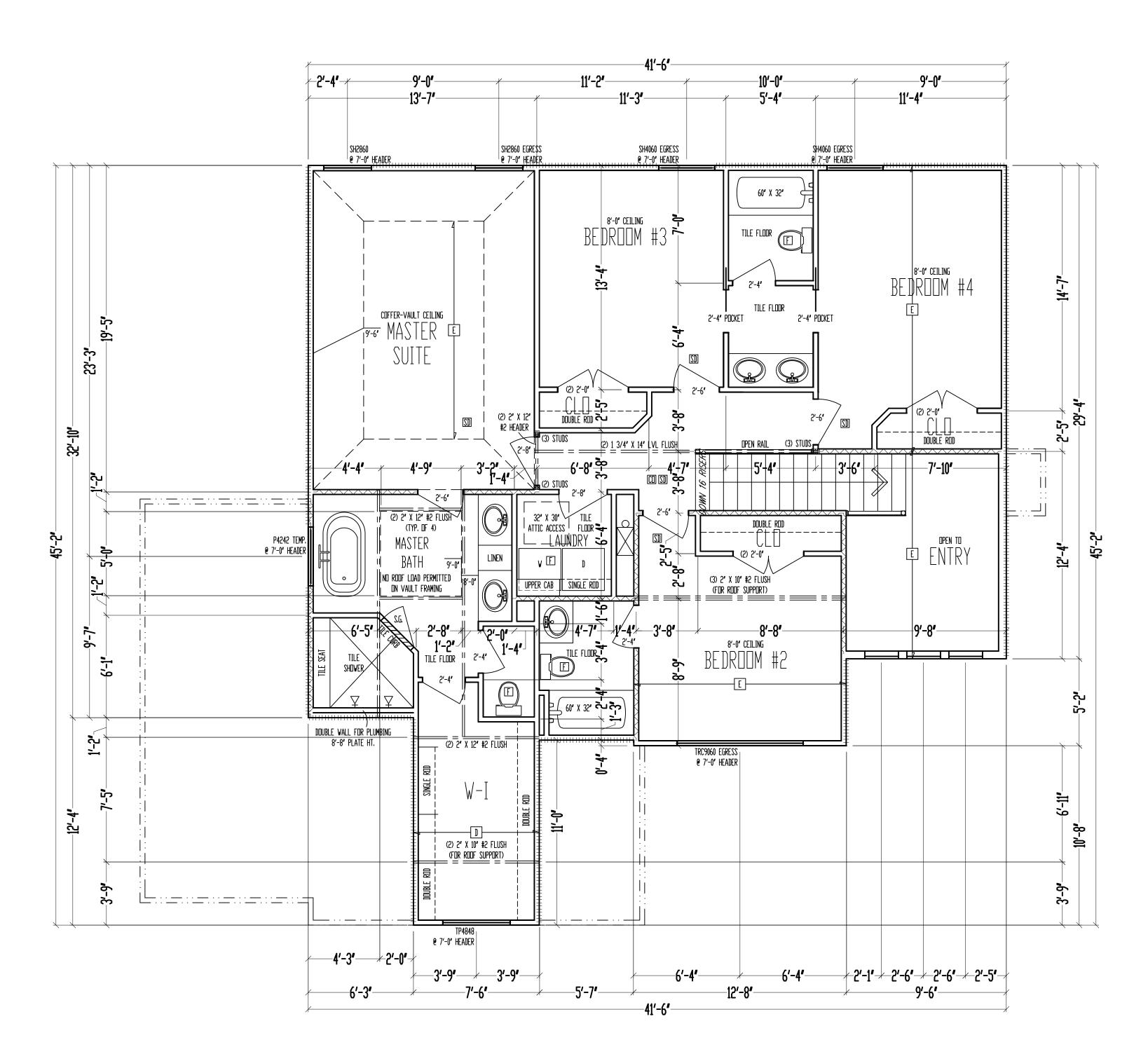
Homes, LLC

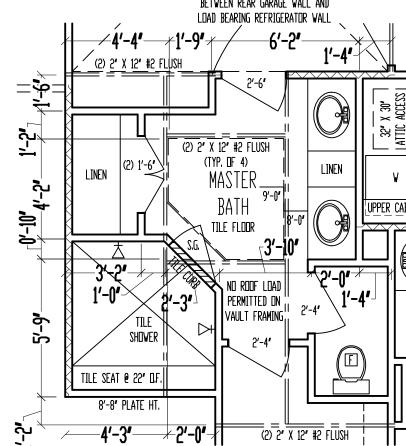
Date: 9 - 22 - AD 2021 Rev. 1: Rev. 2: Rev. 3:

Sheet Title:
MAIN LEVEL
PLAN

Sheet No.:

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of 6





OPTION: NO WHIRLPOOL TUB OR WINDOW SCALE: 1/4" = 1'-0"

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

ON SHEET S1.1.

1. SECOND LEVEL EXTERIOR 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, DR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

2. \ \ \ \ \ \ \ \ \ = G.B.: 1/2' min. Gypsum board over studs spaced 24' max FASTENED W/ ND. 6 - 1 1/4' TYPE W DR S DRYWALL SCREWS @ 7' D.C. EDGES & FIELD. (MIN. 8'-0' SECTIONS ONE SIDE OF WALL (OR) MIN. 4'-0' SECTION FOR BOTH SIDES) 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. BLDCK JUISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JUIST 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

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

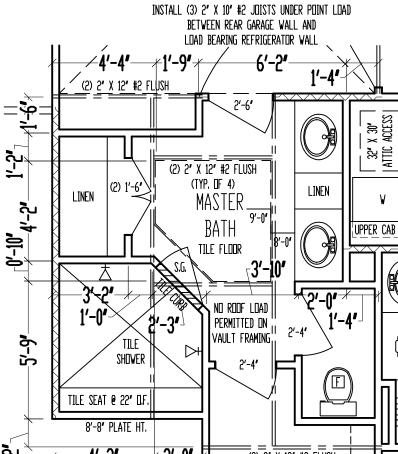
12. EXTERIOR WALL BOTTOM PLATES SHALL BE NAILED TO FRAMING BELOW WITH 16d COMMON NAILS @ 16" D.C. MAX. (WHERE APPLICABLE.)

13. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4 GLULAM 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 OPENINGS.

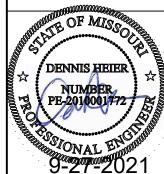
JOIST SCHEDULE			
D	2" X 6" #3 CEILING JOIST @ 16" D.C.		
E	2" X 6" #2 CEILING JOIST @ 16" D.C.		



Project Title: HHF018 Spec Site Description: Lot 18, Homestead at Hook Farms 1st

Plat Street Address: 2034 SW Hook Farm Dr., Lee's Summit, Missouri

General Contractor: Walker Custom Homes, LLC

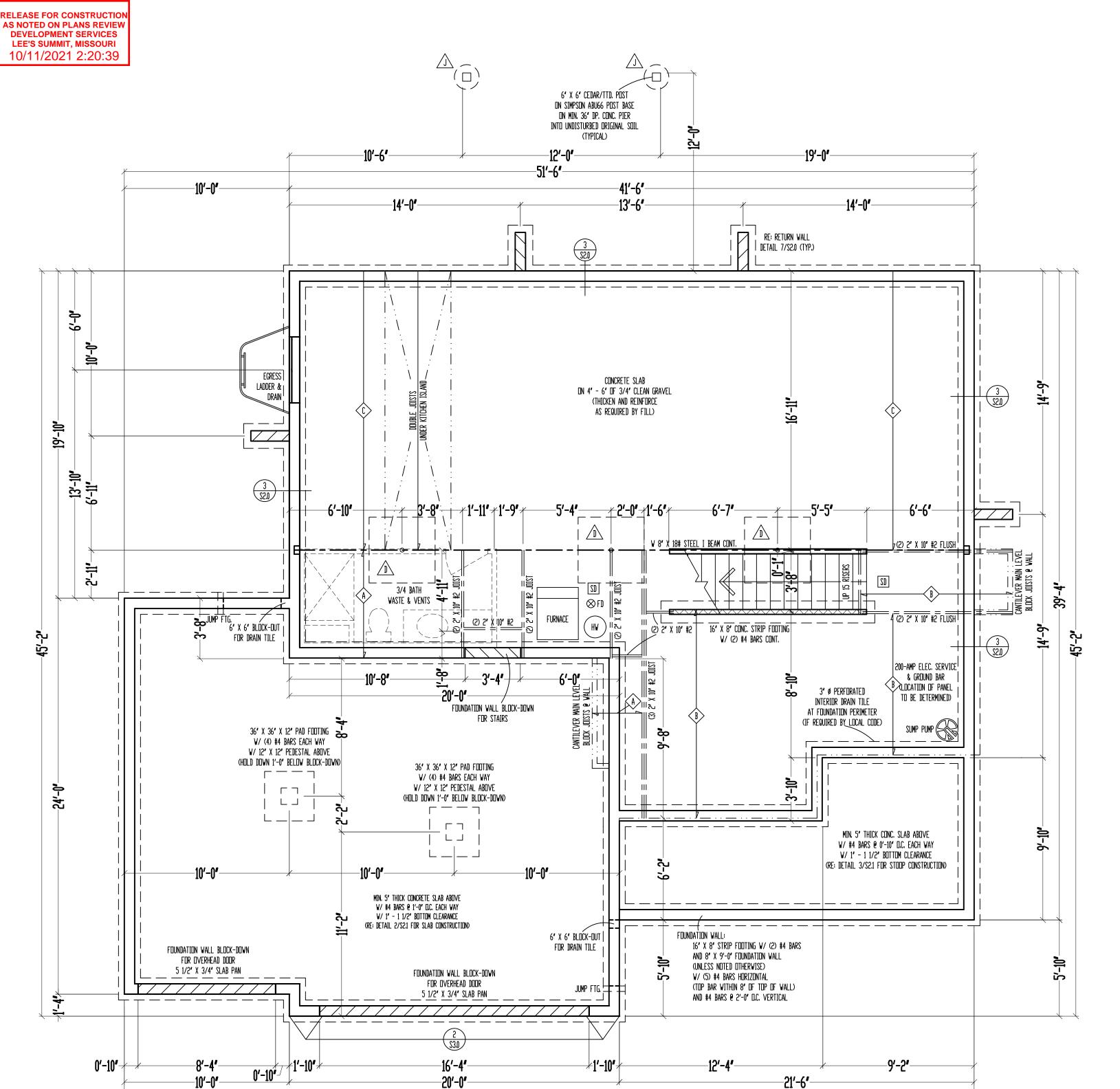


Date: 9 - 22 - AD 2021 Rev. 1: Rev. 2: Rev. 3:

Sheet Title:

SECOND LEVEL PLAN

Sheet No.:



-51**'-6"**-

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

2" X 10" FLOOR SYSTEM ABOVE FOUNDATION

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

CALCULATIONS ON SHEET S1.1.

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, DR EQUAL, INSTALLED PER MANUFACTURER'S

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

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. 1/2" Ø ANCHOR BOLTS W/ MIN. 7" EMBEDMENT @ 48" D.C. MAX. & WITHIN 6" -12' OF END OF EACH PLATE LENGTH.

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 BE FOUNDED ON ANYTHING SHORT OF THE AFOREMENTIONED REQUIREMENTS. 15. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION

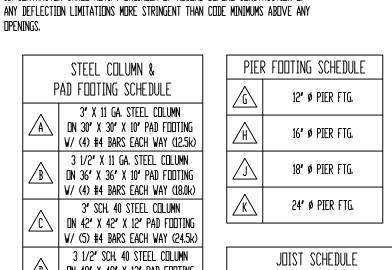
STEEL COLUMN & PAD FOOTING SCHEDULE 3" X 11 GA. STEEL COLUMN A DN 30' X 30' X 10' PAD FOOTING W/ (4) #4 BARS EACH WAY (12.5k) 3 1/2" X 11 GA. STEEL COLUMN B ON 36' X 36' X 10' PAD FOOTING W/ (4) #4 BARS EACH WAY (18.0k) 3" SCH. 40 STEEL COLUMN C ON 42" X 42" X 12" PAD FOOTING W/ (5) #4 BARS EACH WAY (24.5k) 3 1/2" SCH, 40 STEEL COLUMN DN 48' X 48' X 12' PAD FOOTING 2' X 10' #2 TTD. FLOOR JOIST W/ (6) #4 BARS EACH WAY (32.0k) @ 16″ □.C. 3 1/2" SCH, 40 STEEL COLUMN E DN 54' X 54' X 14' PAD FOOTING 2" X 10" #2 FLOOR JOIST W/ (7) #4 BARS EACH WAY (40.5k) @ 16″ □.C.

3 1/2" SCH. 40 STEEL COLUMN

W/ (8) #4 BARS EACH WAY (50.0k)

DN 60' X 60' X 14' PAD FOOTING

(STEP WHERE GRADE REQUIRES)



2" X 10" #2 FLOOR JOIST 6 16, DC' - DORRE EAELA OTHER Date: 9 - 22 - AD 2021 Rev. 1: Rev. 2: Rev. 3:

> Sheet Title: **FOUNDATION** PLAN

Sheet No.:

HHF018 Spec Site Description: Lot 18, Homestead at Hook Farms 1st

Street Address: 2034 SW Hook Farm Dr., Lee's Summit, Missouri

Plat

General Contractor: Walker Custom Homes, LLC

DENNIS HEIER

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES** LEE'S SUMMI<mark>T, MISSOURI</mark> 10/11/2021 2: PESCENTION OF BUILDING ELEMENTS

ROOF BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP 4-8d (2½" x 0.113") **TOENAIL** PLATE, TOE NAIL CEILING JOISTS TO PLATE. TOE NAIL 4-8d (2½" x 0.113") PER JOIST, TOENAIL CEILING JOISTS NOT ATTACHED TO PARALLEL 4-10d (3" x 0.128") FACE NAIL RAFTER, LAPS OVER PARTITIONS, FACE NAIL CEILING JOIST TO PARALLEL RAFTER (HEEL JOINT) TBLE R802.5.2 FACE NAIL COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4" x 20 GA. 4-10d (3" x 0.128") FACE NAIL, EACH RAFTER RIDGE STRAP TO RAFTER 2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON 3-16d BOX NAILS (3½" x 0.135") OR 3-10d COMMON RAFTER OR ROOF TRUSS TO PLATE NAILS (3" x 0.148") OPPOSITE SIDE OF EACH RAFTER OR TRUSS ROOF RAFTERS TO RIDGE, VALLEY, OR HIP 4-16d (3 $\frac{1}{2}$ " x 0.135") - TOENAIL; 3-16d BOX (3 $\frac{1}{2}$ " x RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE TOENAIL, END NAIL 0.135") - END NAIL BEAM WALL STUD TO STUD (NOT AT BRACED WALL PANELS) 10d (3" x 0.128") 16" O.C. FACE NAII STUD TO STUD AND ABUTTING STUDS AT 12" O.C. FACE NAIL 16d (3½" x 0.135") INTERSECTING WALL CORNERS (AT BRACED WALL PANELS) 12" O.C. EACH EDGE FACE NAIL 16d (3½" x 0.135") BUILT-UP HEADER, TWO PIECES WITH ½" SPACER TOENAIL 4-8d (2½" x 0.131") CONTINUOUS HEADER TO STUD 10d (3" x 0.128") 12" O.C. FACE NAIL TOP PLATE TO TOP PLATE FACE NAIL ON EACH SIDE OF END JOINT (MIN. 24" 8-16d COMMON (3 ½" x 0.162") DOUBLE TOP PLATE SPLICE LAP SPLICE LENGTH EACH SIDE OF END JOINT) BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST 16" O.C. FACE NAIL 16d COMMON (3 $\frac{1}{2}$ " x 0.162") OR BLOCKING (NOT AT BRACED WALL PANELS) BOTTOM PLATE TO JOIST RIM JOIST BAND JOIST 3 EACH 16" O.C. FACE NAIL 3-16d BOX (3 ½" x 0.135") OR BLOCKING (AT BRACED WALL PANEL) TOENAIL, END NAIL (SEE LEFT) 4-8d BOX (2 $\frac{1}{2}$ " x 0.113") - TOENAIL; 3-16d BOX (3 $\frac{1}{2}$ " x TOP OR SOLE PLATE TO STUD, END NAIL 0.135") - END NAIL 3-10d BOX (3" x 0.128") TOP PLATES, LAPS AT CORNERS AND FACE NAIL INTERSECTIONS FACE NAII 3-8d BOX ($2\frac{1}{2}$ " x 0.113") 1" BRACE TO EACH STUD AND PLATE FACE NAIL 3-8d BOX (2 ½" x 0.113") 1"x6" SHEATHING TO EACH BEARING FACE NAIL 3-8d BOX (2 $\frac{1}{2}$ " x 0.113") - FACE NAIL; WIDER THAN 1"x8" SHEATHING TO EACH BEARING 1"x8" - 4-8d BOX (2 ½" x 0.113") FLOOR TOE NAIL 4-8d BOX (2 $\frac{1}{2}$ " x 0.113") JOIST TO SILL, TOP PLATE, OR GIRDER RIM JOIST, BAND JOIST, OR BLOCKING TO SILL OF 4" O.C. TOE NAIL 8d BOX (2 ½" x 0.113") TOP PLATE (ROOF APPLICATIONS ALSO) FACE NAIL 3-8d BOX (2 $\frac{1}{2}$ " x 0.113") 1" x 6" SUBFLOOR OR LESS TO EACH JOIST BLIND AND FACE NAIL 3-16d BOX (3 $\frac{1}{2}$ " x 0.135") 2" SUBFLOOR TO JOIST OR GIRDER AT EACH BEARING, FACE NAIL 3-16d BOX (3 $\frac{1}{2}$ " x 0.135") 2" PLANKS (PLAN & BEAM - FLOOR AND ROOF) END NAIL 3-16d COMMON (3 ½" x 0.162") BAND OR RIM JOIST TO JOIST 24" O.C. FACE NAIL AT TOP AND BOTTOM 10d BOX (3" x 0.128") BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS AT EACH JOIST OR RAFTER, FACE NAIL 4-16d BOX (3 ½" x 0.135") LEDGER STRIP SUPPORTING JOISTS OR RAFTERS

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

NUMBER AND TYPE OF FASTENER

SCRIPTION OF BUILDING MATERIAL	FASTNER SCHEDULE FOR DESCRIPTION OF FASTENER	R STRUCTURAL MEMBERS EDGE SPACING (INCHES)	INTERMEDIATE SUPPORTS (INCHE
WOOD STRUCTURAL PANELS, SU	BFLOOR, ROOF AND INTERIOR WALL SHE	ATHING TO FRAMING AND PARTICLEBOA	RD WALL SHEATHING TO FRAMING
¾" - ½"	6d COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF)	6	12
¹⁹ / ₃₂ " - 1"	8d COMMON NAIL (2½" x 0.131")	6	12
11/8" - 11/4"	10d COMMON (3" x 0.148") NAIL OR 8d (2½" x 0.131") DEFORMED NAIL	6	12
	OTHER WALL	SHEATHING 1	
½" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	$1\frac{1}{2}$ " GALVANIZED ROOFING NAIL, $\frac{7}{16}$ " HEAD DIAMETER, OR $1\frac{1}{4}$ " LONG 16 GA. STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN	3	6
25" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	$1\frac{3}{4}$ " GALVANIZED ROOFING NAIL, $\frac{7}{16}$ " HEAD DIAMETER, OR $1\frac{1}{2}$ " LONG 16 GA. STAPLE WITH $\frac{7}{16}$ " 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	1¾" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1½" LONG; 1½" SCREWS, TYPE W OR S	7	7
W	OOD STRUCTURAL PANELS, COMBINATIO	N SUBFLOOR UNDERLAYMENT TO FRAM	ING
¾" AND LESS	6d DEFORMED (2" x 0.120") NAIL OR 8d COMMON (2½" x 0.131") NAIL	6	12
½" - 1"	8d COMMON (2½" x 0.131") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL	6	12
1½" - 1½"	10d COMMON (3" x 0.148") NAIL OR 8d DEFORMED (2½" x 0.120") NAIL	6	12

2-10d BOX (3" x 0.128")

BRIDGING OR BLOCKING TO JOIST

1. IF INFORMATION LISTED ON PLAN SHEETS CONTRADICTS INFORMATION IN THIS TABLE, INFORMATION ON PLANS TAKES PRECEDENCE OVER INFORMATION LISTED IN THIS TABLE

FOUNDATION NOTES

SPACING AND LOCATION

EACH END, TOENAIL

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

STANDARDS 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 FOR FROST PROTECTION.

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

13. FOUNDATION WINDOW WELLS SHALL BE PROVIDED WITH MINIMUM DIMENSIONS AS SHOWN IN DETAIL ON SHEET 14. THE GARAGE FLOOR SHALL SLOPE TOWARD THE VEHICLE DOORS OR TO A TRENCH OR UNTRAPPED DRAIN THAT

DISCHARGES TO THE EXTERIOR, ABOVE GRADE

ALL DIMENSIONAL LUMBER SHALL BE DOUGLAS-FIR-LARCH GRADE #2, UNLESS NOTED OTHERWISE ON PLANS 16. 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 MINIMUM OF 1/8

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 MATERIAL

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 **COLD-FORMED STEEL JOIST HANGERS**

JOISTS FRAMED ON TOP OF STRUCTURAL MEMBER SHALL BE SUPPORTED AT EN DS BY FULL-DEPTH SOLID BLOCKING MIN. 1/4" 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.

ALL RAFTERS SHALL HAVE 2x4 COLLAR TIES @ 4'-0" O.C. IN UPPER ⅓ 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 1/2" 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. $\frac{1}{2}$ " 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 INSPECTED BY AN AWS-CERTIFIED INSPECTOR.

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 VENT BEGINS 12" FROM THE CEILING.

34. ALL ROOF SHEATHING SHALL BE $\frac{7}{16}$ " OSB WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND @ 12" O.C. IN FIELD

35. 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 GLAZING IS WITHIN 5'-0" OF THE TOP OR BOTTOM OF THE STAIR, ENCLOSURES FOR SPAS, TUBS, SHOWERS, AND 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"

36. ALL OPERABLE WINDOWS SHALL HAVE FALL PROTECTION PER IRC SECTION R612.2

37. 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 1/2" TO 1/2" 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.

39. 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

40. 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 5/8" MORTAR OR GROUT COVER TO OUTSIDE FACE

41. 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 1/8"

42. 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.

44. 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

45. 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 %" 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 21/2"" 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)

DESIGN EOADING (I EIT TABLE 1301.5)					
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	MINITE DV COMPONENT /TADLE NI4402 4 4
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

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 PRESSURE CLASSIFICATION SHALL NOT REQUIRE ADDITIONAL CLOSURE SYSTEMS.

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 SQUARE 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.

ME	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				



SPEC HOMESTEAD HHF018 10 LOT 18, 11 LST PLAT

HOMES,

CUSTOM

TITLE

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FARM DR. MISSOURI

SW HOOK S SUMMIT,

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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	1974	19740
CEILING		10	1974	19740
SECOND FLOOR		10	1304	13040
FIRST FLOOR		10	1974	19740
	WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)
SECOND FLOOR EXT. WALL DL	173.34	9	9	14040.54
FIRST FLOOR EXT. WALL DL	193.34	10	10	19334
		DEAD LOAD (psf)	AREA (ft2)	WEIGHT (lbs)
SECOND FLOOR INT. PARTITION WALL DL		6	1304	7824
FIRST FLOOR INT. PARTITION WALL DL		6	1974	11844

	PROJECTED AREAS (WIND DESIGN PER 115 MPH 3-SECOND GUST, EXPOSURE C AND MEAN ROOF HEIGHT <= 30 FT ASSUMED)								
FRONT-TO-BACK				SIDE-TO-SIDE					
	AREA	LOAD			AREA	LOAD			
SLOPED ROOF	187	801		SLOPED ROOF	204	898			
VERT. ROOF	25	342	CUMULATIVE	VERT. ROOF	0	0	CUMULATIVE		
2ND	415	5871	7014	2ND	451.7	6299	7197		
1ST	566.5	7739	14753	1ST	496.87	6928	14125		
BSMT ^a	0	0	0	BSMT ^a	82	1427	8489		
			PRESSURE (PSF) - PER ASCE CH. 6						
	SLOPED ROOF	ZONE B	5.9		ZONE C	11.6	2a (FIG. 28.6-1, ASCE7)		
	WALL/VERT, ROOF	ZONE A		17.4	ZONE D	3.4	9.034		
	MEAN ROOF HT., h		30		, in the second		·		

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_{z10}=0.00256K_zK_{zt}K_dV^z (ASCE7-10 Velocity Pressure) q_{z10_ASD}=0.6q_{z10} (Design Velocity Pressure for ASD analysis under ASCE7-10 and IRC/IBC 2012)

2ND FLOOR TRIBUTARY WEIGHT 46500.27 1ST FLOOR TRIBUTARY WEIGHT BASEMENT TRIBUTARY WEIGHT 84051.54 $\rm S_{\rm S}$ (SITE GROUND MOTION - $\rm \%g$ - FROM ASCE7 SEISMIC MAP) 12.0% F_a (from ASCE7 Table 11.4-1) 1.6 S_{DS} (= 2/3 * S_{S} * F_{a}) 0.128 R (from ASCE7 Table 12.2-1) 6.5

	SEISMIC SHEAR		
LOCATION		From ASCE7 (Eq. 12.8-1):	V (= 1.2 * S _{DS} * W / R) (lbs.)
2ND FLOOR			1099
1ST FLOOR			1986
BASEMENT			1986

Sheathing Location	Min. Sheathing Schedule	Fastening Schedule	Allowable Shear (#/LF)	Code Reference
Exterior (Option #1)	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration@ 6" OC Edges, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing	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, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing	230	per IBC, Table 2306.3(1)
Exterior (Option #3)	7/16" APA Rated Plywood/OSB	1-1/2" 16gz. Staples w/ 1" penetration@ 3" CC Edges, 6" CC Field For 24" stud spacing, 12" CC Field For 16" stud spacing	310	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	220	AF&PA SDPWS 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 SDPWS 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 SDPWS Table 4.3A
Interior	1/2" Gypsum Board	No. 6- 11/4" 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	5
EXTERIOR SHEATHING OPTION FOR BASEMENT WALLS	5

WIDTH OF 1ST STORY (FT.)	51.5]	WIDTH OF 2ND STORY (FT.)	41.5
DEPTH OF 1ST STORY (FT.)	45.17		DEPTH OF 2ND STORY (FT.)	45.17
BACK WALL OF GARAGE (FT.)	0]	•	
GAR. WALL: 1=F-B, 2=S-S	2			

	EXTERIOR STRUCTURAL WALL LENGTHS (II.) & RESISTANCES									
, i	SEISMIC					WIND				
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)		
2ND FLOOR	60	16800	39.5	11060	60	23520	39.5	15484		
1ST FLOOR	70	26600	32	12160	70	37240	32	17024		
BASEMENT	0	0	17.5	6650	0	0	17.5	9310		
	•			_				,		
		ADDITIONAL DEGIC	TANCE DECLIDED		Anchor Polf Specing	(in)	16d Noil Specing regid at	hottom ploto (in)		

	ADDITIONAL RESIS	TANCE REQUIRED
	SEISMIC	WIND
2ND FLOOR FRONT-TO-BACK	0	0
2ND FLOOR SIDE-TO-SIDE	0	0
1ST FLOOR FRONT-TO-BACK	0	0
1ST FLOOR SIDE-TO-SIDE	0	0
BASEMENT FRONT-TO-BACK	0	0
BASEMENT SIDE-TO-SIDE	0	0

Anchor Bolt Spacing (in.	.)	16d Nail Spacing req'd at bottom plate (in.)		
diameter (in.)	0.5	2nd Floor F-B	35	
Shear value (per NDS)	944	2nd Floor S-S	39	
Spacing F-B (inches)	111.0	1st Floor F-B	17	
spacing S-S (inches)	132.2	1st Floor S-S	20	

		DECIGEANOE DECINE	SER IN ARRITION TO BE	IOTANIOE BROWBER BY EVTERIOR W	// 1.1.0**	<u> </u>				
RESISTANCE REQUIRED IN ADDITION TO RESISTANCE PROVIDED BY EXTERIOR WALLS**										
	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			
BASEMENT FRONT-TO-BACK	0					0	YES			
BASEMENT SIDE-TO-SIDE	0					0	YES			
**NOTES: 1) SEE ATTACHED CALCULATION	NS FOR PORTAL FRAMI	E OR PERFORATED SH	EAR 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

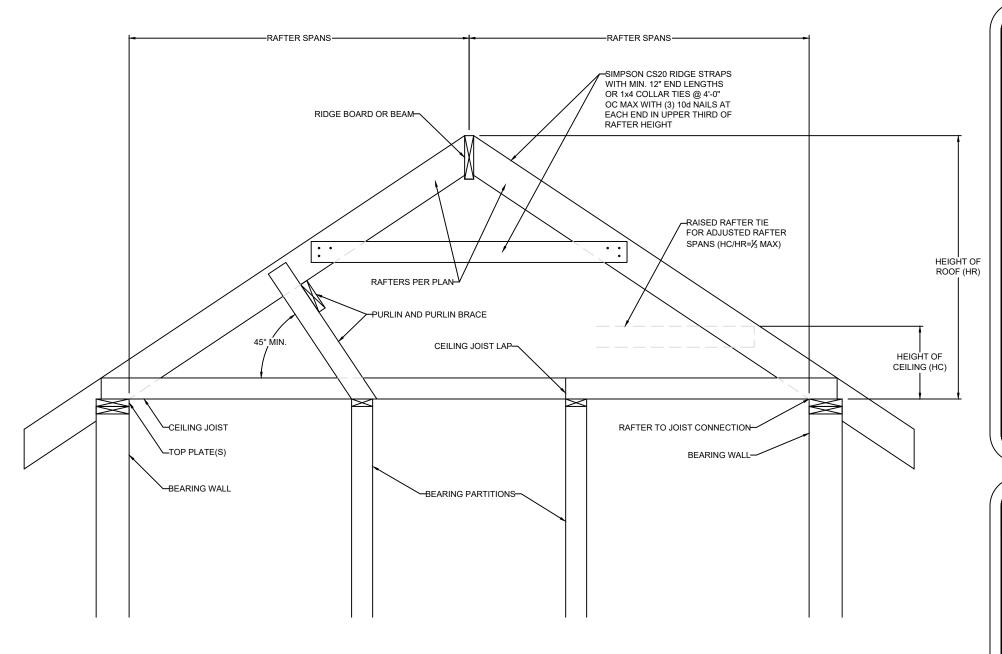
ALL LATERAL BRACING ACHIEVED AT EXTERIOR WALLS AND WALLS DIRECTLY ON FOUNDATIONS; THEREFORE, NO INTERIOR BRACING PER 2012 IRC SECTION R502.2.1 IS REQUIRED									
WIND UPLIFT ANALYSIS									
	X/12	DEGREES							
ROOF PITCH (MAX)	5	22.6	PITCH OF 6 OR LESS:	EOH -13.3, E -7.2, G -5.2					
ASCE 7									
	LENGTH (FT.)	PRESSURE (PSF)	LINEAL FT. OF OH	UPLIFT PER FT* (LBS)					
OVERHANG	1	16.56	195.34	16.56					
	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**	2326.255	1239.500936	1086.754064	15.12	10.5	30152	156.0		
*ALONG PERIMETER TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS)		172.5	UPLIFT OK						
**INSIDE EXTERIOR V	**INSIDE EXTERIOR WALLS RESISTANCE DUE TO DEAD WEIGHT & (3) 10d TOENAILS			251.6					

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.,

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 ARE DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION

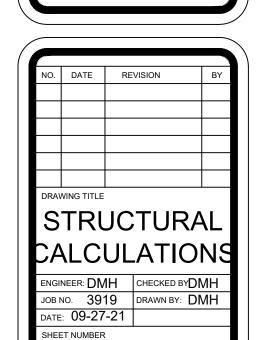


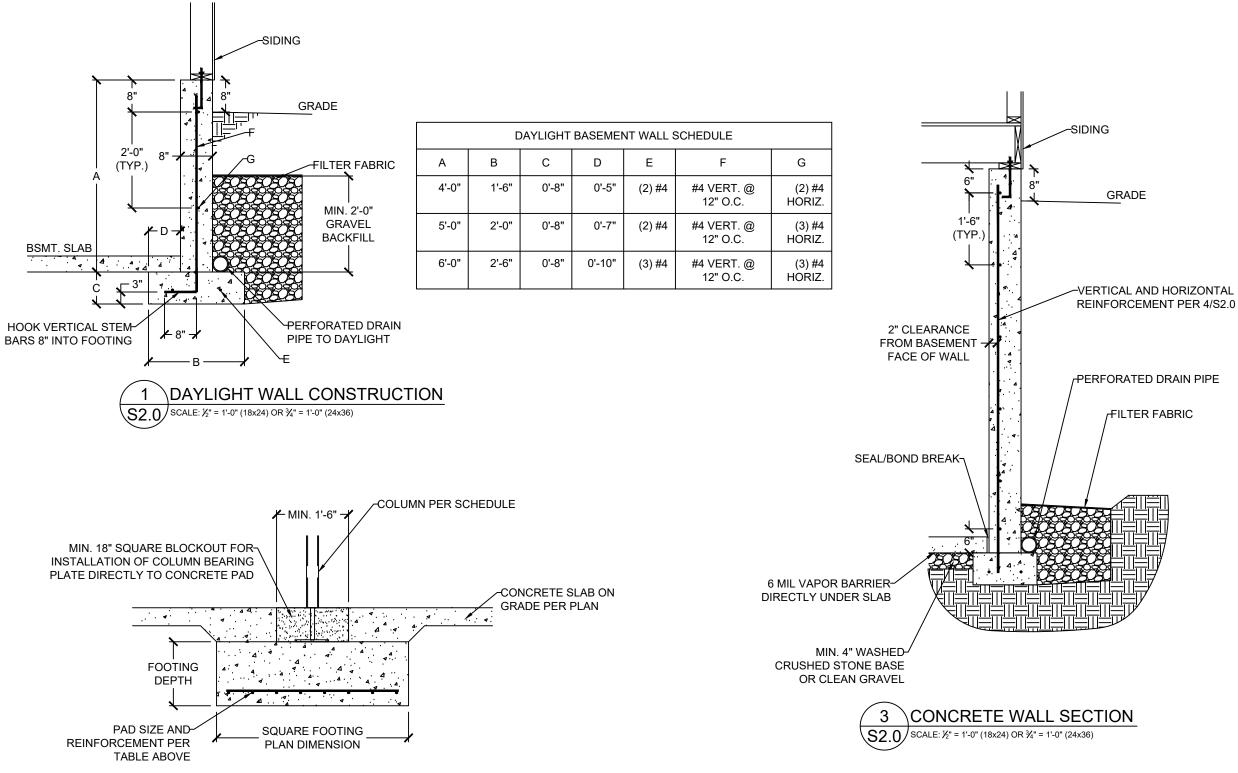
1 BRACED RAFTER CONSTRUCTION S1.1 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



HOOK AT CLIENT: WALKER CUSTOM HOMES, : HHF018 SPEC LOT 18, HOMESTEAD A 1st PLAT

2034 SW HOOK FARM DR. LEE'S SUMMIT, MISSOURI TITLE: JOB DENNIS HEIER





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

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

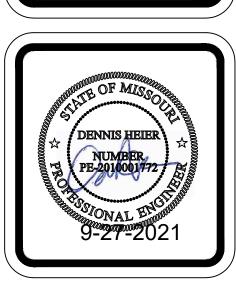
8) WALL SHALL NOT BE BACKFILLED UNTIL FLOOR SYSTEM AND DIAPHRAGM ARE IN PLACE

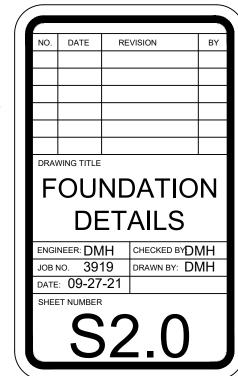
4 FOUNDATION WALL REINFORCEMENT TABLE

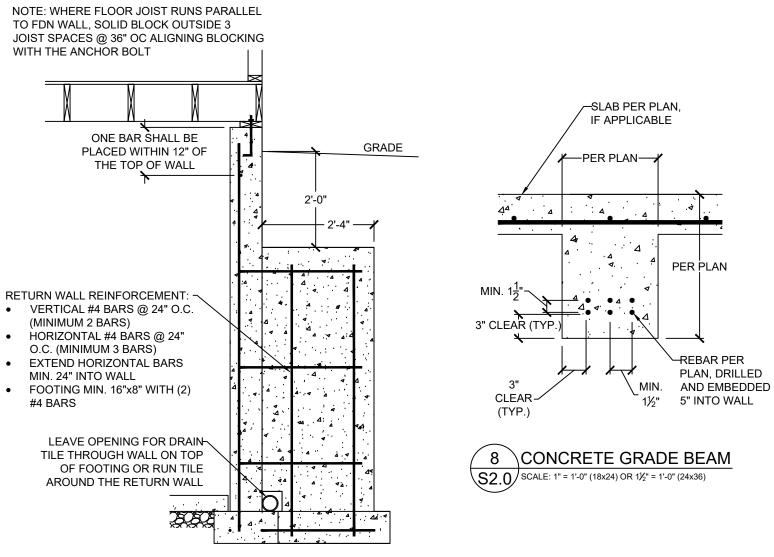


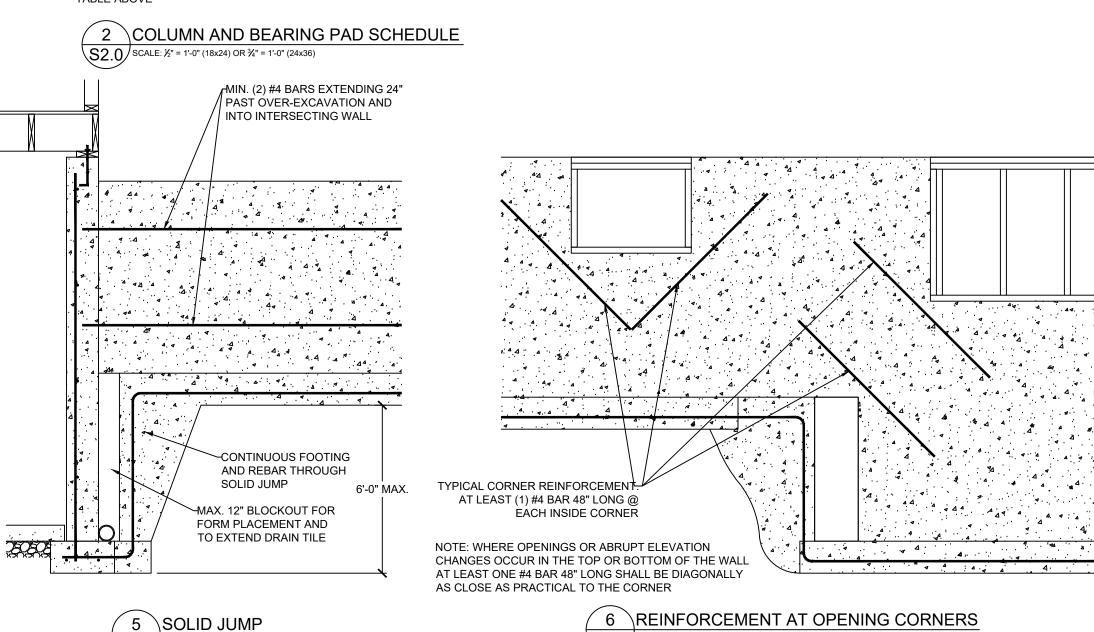
CLIENT: WALKER CUSTOM HOMES, LLC JOB TITLE: HHF018 SPEC LOT 18, HOMESTEAD AT HOOK FARMS 1st PLAT

4 SW HOOK E'S SUMMIT,





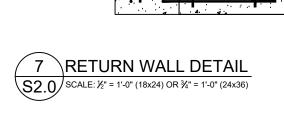


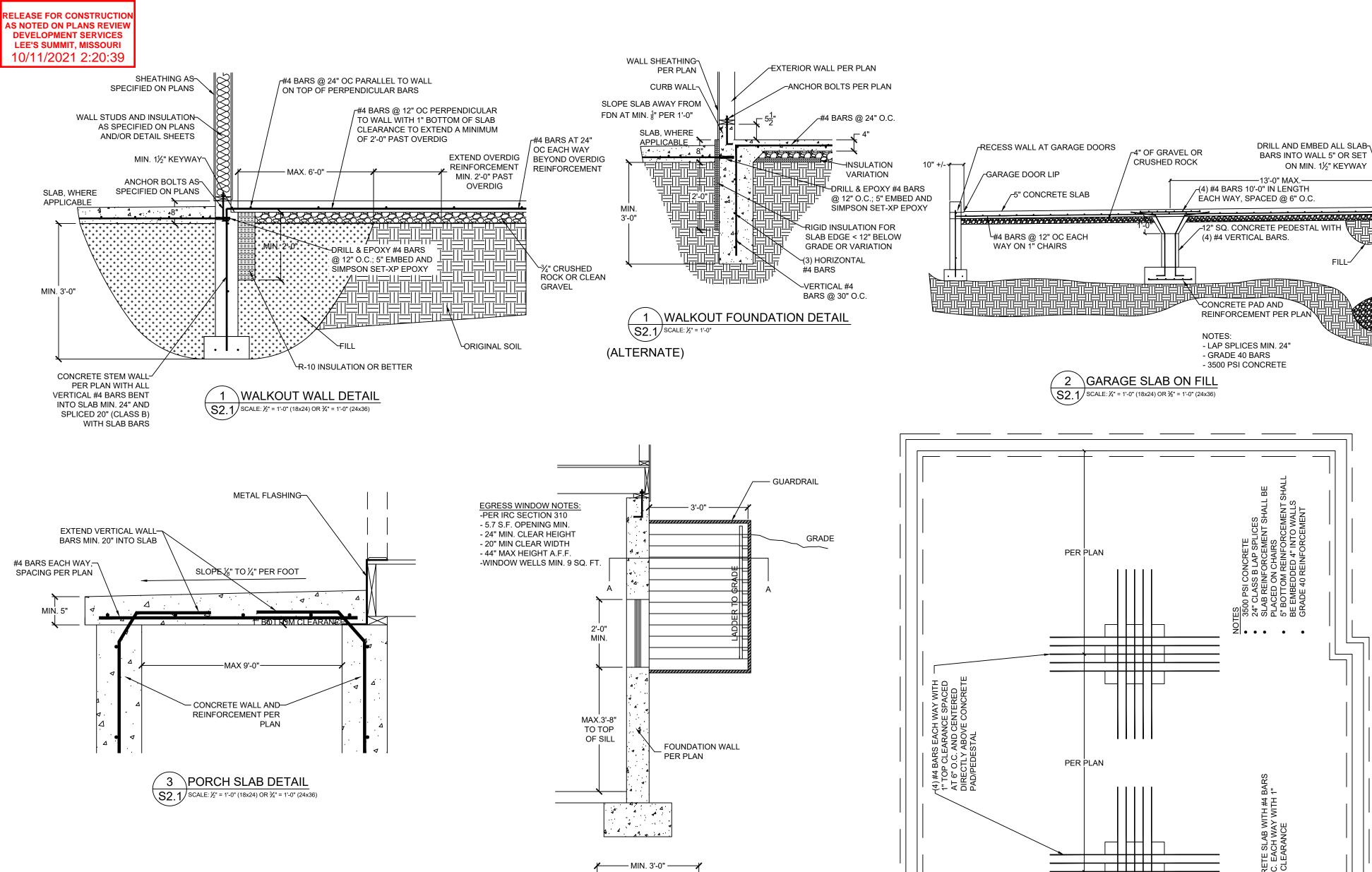


S2.0/SCALE: $\frac{1}{2}$ " = 1'-0" (18x24) OR $\frac{3}{4}$ " = 1'-0" (24x36)

\S2.0/AND STEP CORNERS @ INSIDE CORNERS

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





-PER PLAN-PER PLAN

FARM DR. MISSOURI $\mathsf{A}\mathsf{T}$ **CUSTOM HOMES** : HHF018 SPEC LOT 18, HOMESTEAD A 1st PLAT 4 SW HOOK F 2034 LEE'S TITLE:

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NO.	DATE	REVISION	BY
DRAV	VING TITLE		•
	_	NDATI	ON
	OU		•
F	OU	NDATI ETAILS	S
F	OU De	NDATI ETAILS	SYDMH
ENGII JOB 1	OU DE	NDATI ETAILS 1H CHECKED B 19 DRAWN BY:	SYDMH

\EGRESS WINDOW WELL ELEVATION AND PLAN DETAILS S2.1/SCALE: $\frac{1}{2}$ " = 1'-0" (18x24) OR $\frac{3}{4}$ " = 1'-0" (24x36)

LADDER

GALVANIZED STEEL WINDOW WELL

PER PLAN -

SECTION A-A

MIN.

3'-0"

-(2) #4 BARS WITH 3"

2" SIDE CLEARANCE

-(2) #4 BARS WITH 3"

BOTTOM CLEARANCE

AND 2" SIDE CLEARANCE

TOP CLEARANCE AND

#4 TIES AT 8" OC ENTIRE

LENGTH OF BEAM, BEGINNING

4" FROM EACH END OF BEAM

-(2) #4 BARS WITH 3"

-(2) #4 BARS WITH 3"

BOTTOM CLEARANCE

AND 2" SIDE CLEARANCE

MÍN.

1'-8"

NOTES:

MAX. 3'-6" IN LENGTH

BARS SHALL EXTEND MIN. 2'-0"

PAST OPENING ON EACH SIDE

TÓP CLEARANCE AND 2" SIDE CLEARANCE

MIN.

1'-8"

4 \CONCRETE HEADER DETAILS

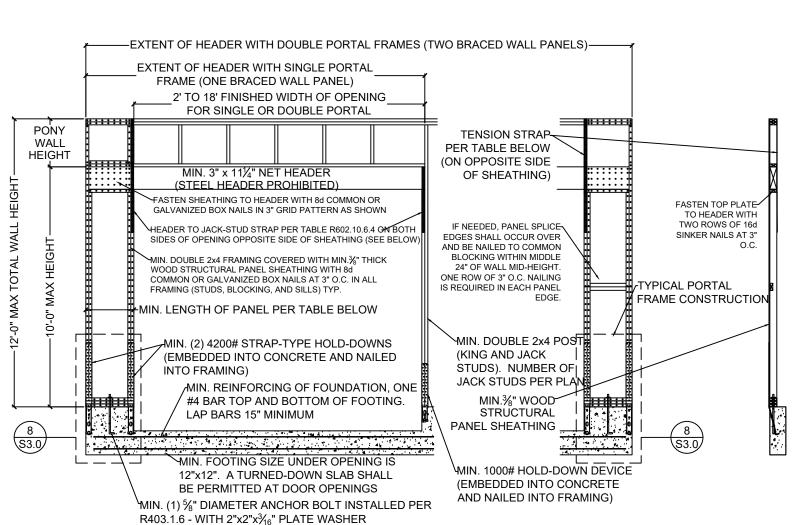
S2.1 SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)

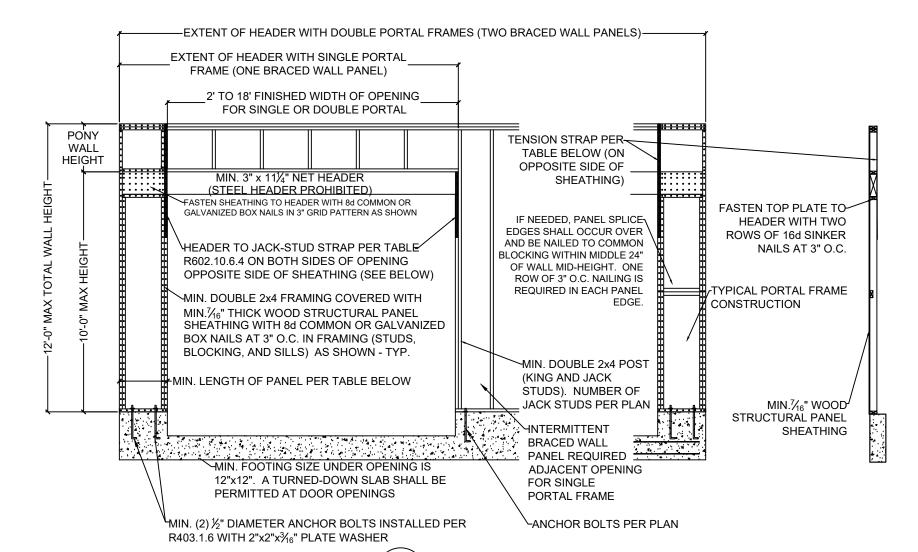
NOTES:

• MAX. 6'-0" IN LENGTH

BARS SHALL EXTEND MIN. 2'-0"

PAST OPENING ON EACH SIDE





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	I PANEL L	ENGTH F (INCHES)		AIL 1/S3.0
		W	ALL HEIGI	HT	
	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

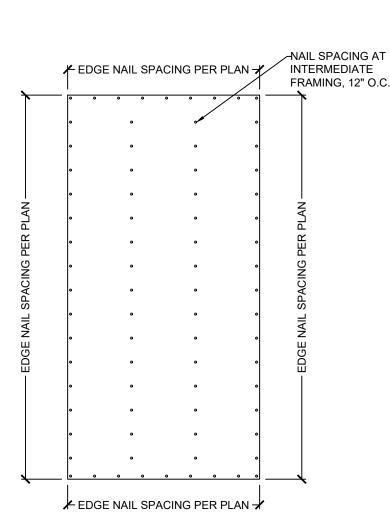
	REQUIRED FOR HEADER TO		3 1/S3.0 AND 2/S3.0 (FROM	
MAX GARAGE OPENING	PONY WALL WALL HT.	REQUIRED SIMPSON	MIN. STRAP END LENGTH	NAILS REQUIRED IN EACH
(FT.)	(FT.)	STRAP	INIIN. STRAP END LENGTH	STRAP END LENGTH
18'-0"	0'-0"	CS20	0'-9"	(7) 8d
9'-0"	1'-0"	CS20	0'-9"	(7) 8d
18'-0"	1'-0"	CS14	1'-4"	(15) 8d
9'-0"	2'-0"	CS18	0'-11"	(9) 8d
18'-0"	2'-0"	CMSTC16	1'-8"	(25) 16d SINKER
9'-0"	4'-0"	CMSTC16	1'-8"	(25) 16d SINKER
16'-0"	4'-0"	CMST14	2'-6"	(33) 10d



SCALE: 1/4" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)

MINIMUM F		GTH FOR D		0 (INCHES)
8 FEET	9 FEET	10 FEET	11 FEET	12 FEET
24	27	30	33 ^a	36 ^a

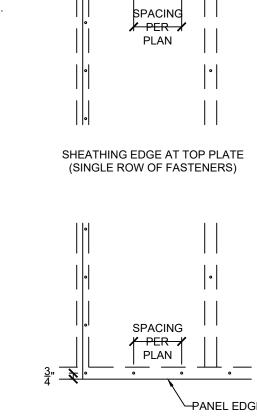
a. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height may be increased to 12 feet with pony wall

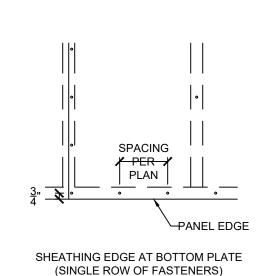


\EXTERIOR WALL SHEATHING

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

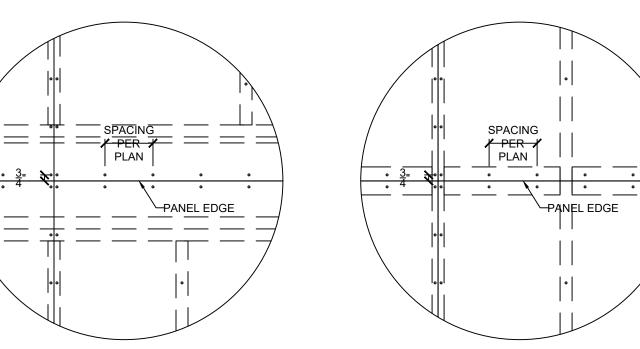
S3.0/PANEL ATTACHMENT





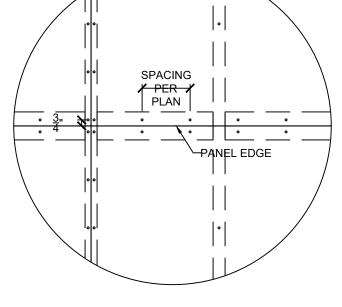


SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

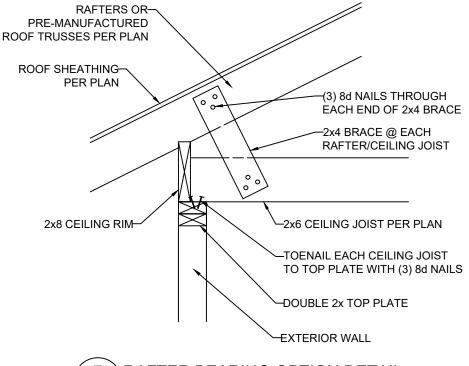




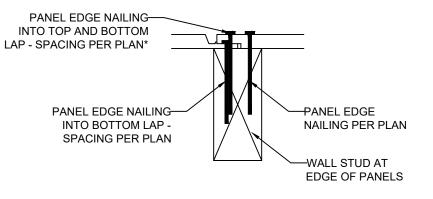
S3.0 FRAMING MEMBER SCALE: 1" = 1'-0" (18x24) OR 11/2" = 1'-0" (24x36)



6 \SHEATHING EDGE AT PANEL S3.0/SPLICE ACROSS STUDS SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

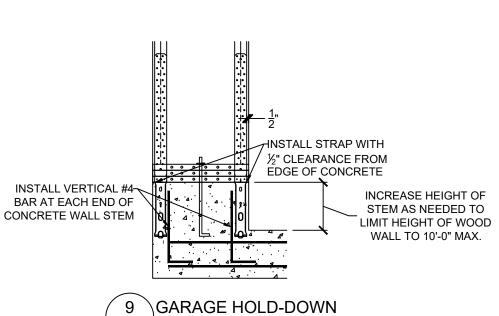


7 RAFTER BEARING OPTION DETAIL S3.0 SCALE: 1" = 1'-0" (18x24) OR $1\frac{1}{2}$ " = 1'-0" (24x36)



*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

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



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



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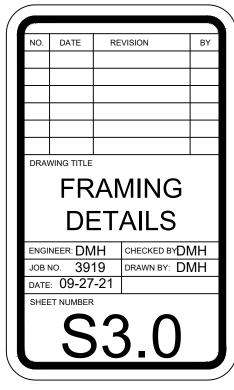
MISS OF MISS DENNIS HEIER NUMBER PE-2010001772

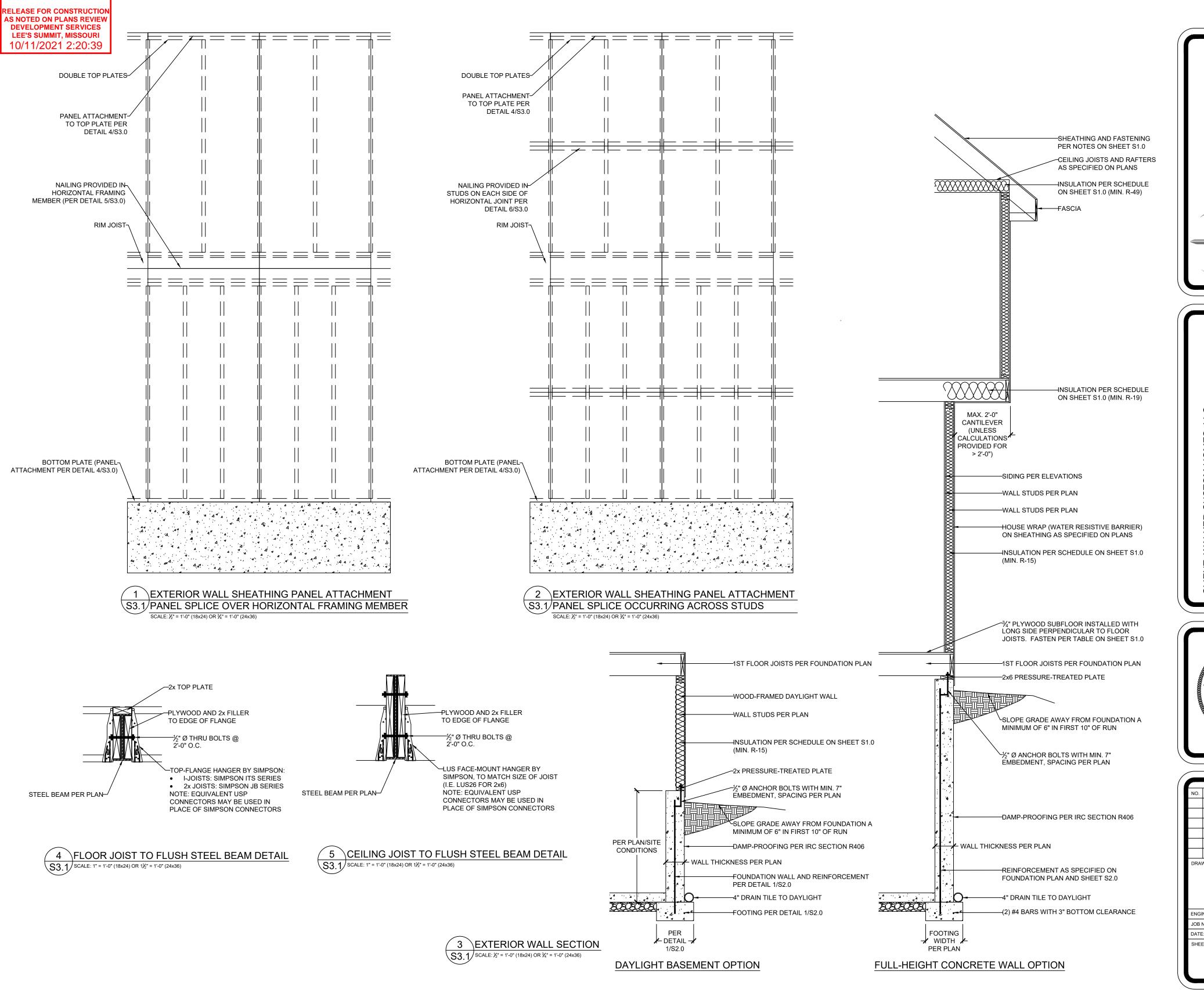
CUSTOM

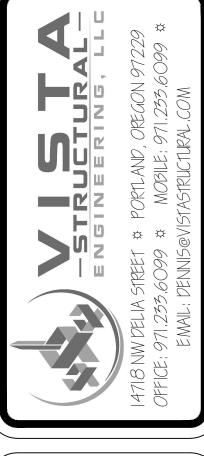
WALKER

CL

JOB

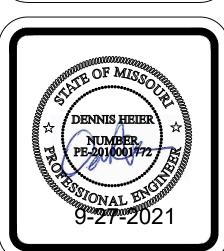


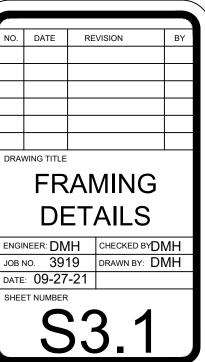


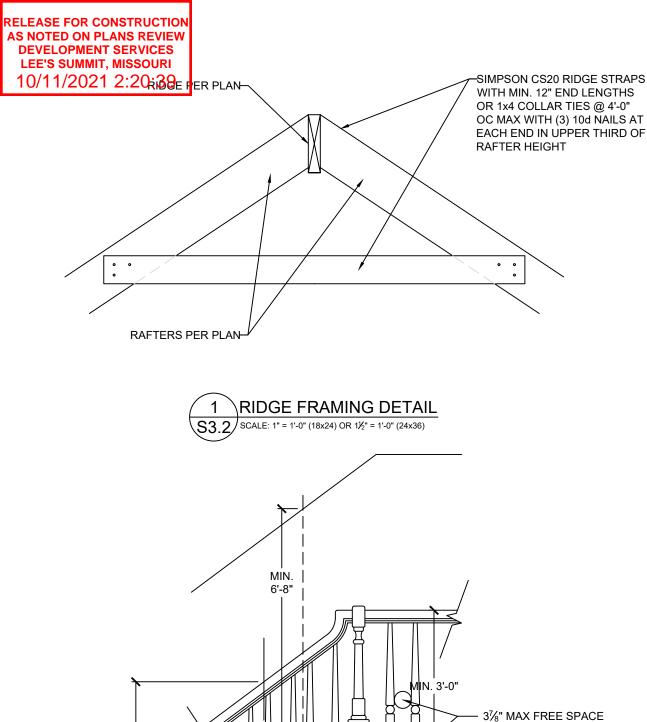


CLIENT: WALKER CUSTOM HOMES, LLC
JOB TITLE: HHF018 SPEC
LOT 18, HOMESTEAD AT HOOK FARMS
1st PLAT

FARM DR. MISSOURI







- MAX RISE 73/4"

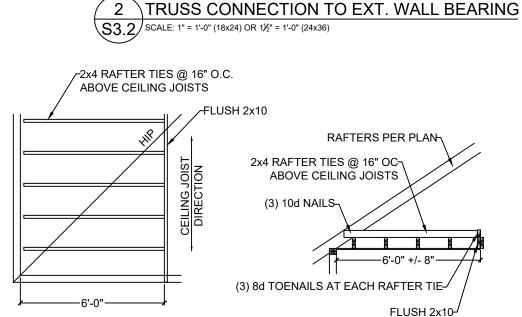
MIN. RUN 10"

STAIRS WITH THREE OR MORE RISERS

4 \STAIR AND HANDRAIL/GUARDRAIL DETAIL

USE AT ALL FLOOR OPENINGS GREATER THAN 30"

ABOVE GRADE OR THE FLOOR BELOW AND/OR



PRE-MANUFACTURED-

-WALL STUDS PER PLAN

ROOF TRUSSES @ 24" OC

ROOF SHEATHING PER PLAN-

SIMPSON H2.5A AT EACH-

EXTERIOR WALL TRUSS

BEARING

_L2x12 RAFTERS (SHORTER RAFTERS MAY BE FURRED DOWN TO MEET INSULATION AND AIR SPACE REQUIREMENTS) ROOFING ON FELT -2x8 RAFTER ON SHEATHING 1" AIR SPACE BETWEEN -1" AIR SPACE W/ BAFFLE INSULATION AND ROOF SHEATHING W/ BAFFLE ÆAVE VENT FURRING STRIP AS-VAPOR RETARDER-REQUIRED FOR 11" DEPTH CEILING FINISH-CONNECT FURRING STRIP TO 2x8 WITH 3/8" Ø x-MIN. 6"-LONG LEDGER-LOK SCREWS @ 36" OC HIGH-DENSITY R-38-INSULATION BATTS OR WITH 2x4 ON BOTH SIDES @ 48" OC, FASTENED WITH (2) 10d NAILS TO RAFTER (APPROXIMATELY 10" THICK) AND (2) 10d NAILS TO FURRING STRIP **VAULTED RAFTER INSULATION INSTALLATION AND OPTIONAL CONNECTION DETAILS** -2x10 RAFTER -1" AIR SPACE W/ BAFFLE -1" AIR SPACE W/ BAFFLE FURRING STRIP AS-REQUIRED FOR 11" DEPTH FURRING STRIP AS-REQUIRED FOR 11" DEPTH 16d COMMON NAILS (0.162" x 3½") @ 8" OC-J CONNECT FURRING STRIP TO 2x6 WITH 2x4 ON BOTH SIDES @ 48" OC, FASTENED WITH (2) 10d NAILS TO RAFTER AND (2) 10d NAILS TO FURRING STRÌP VAULTED RAFTER INSULATION DETAILS $\sqrt{S3.2}$ SCALE: $\frac{1}{2}$ " = 1'-0" (18x24) OR $\frac{3}{4}$ " = 1'-0" (24x36)

HEIGHT (FT.)

10 OR LESS

14

16

18

20

10 OR LESS

12

14

16

18

10 OR LESS

12

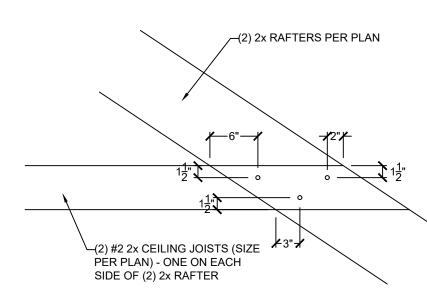
14

16

18

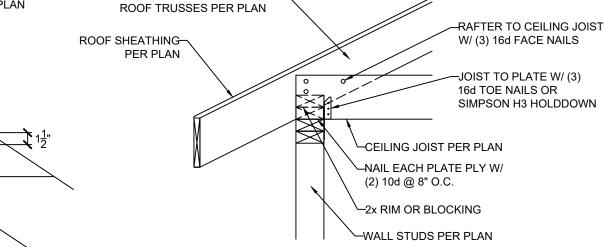
20

S3.2 SCALE: ½" = 1'-0" (18x24) OR ½" = 1'-0" (24x36)



6 \FIELD-CONSTRUCTED A-FRAME DETAIL

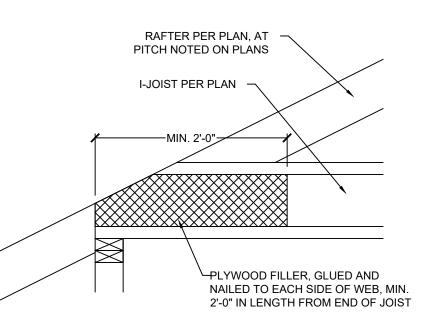
\$3.2\rightarrow\text{SCALE: 1" = 1'-0" (18x24) OR 1\frac{1}{2}" = 1'-0" (24x36)}



RAFTERS OR-

PRE-MANUFACTURED

7 RAFTER BEARING OPTION DETAIL \$3.2 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



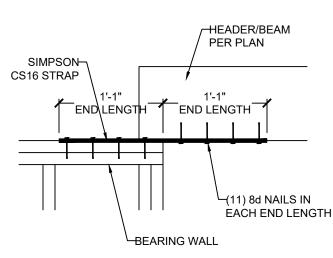
COPED I-JOIST REINFORCEMENT

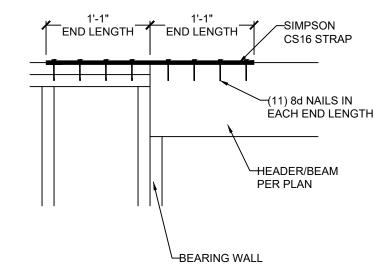
\$3.2\scale: 1" = 1'-0" (18x24) OR 1\(\frac{1}{2}\)" = 1'-0" (24x36)

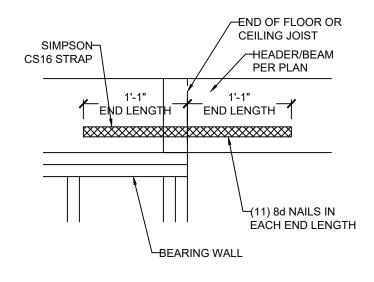
S3.2/SCALE: $\frac{1}{2}$ " = 1'-0" (18x24) OR $\frac{3}{4}$ " = 1'-0" (24x36)

MIN. 34", MAX. 38"

FROM NOSE OF TREAD







NOTES:				
1) DR = DESIGN	I REQUIREI)		
2) UTILITY, STA			GRADE LUI	MBFR OF
ANY SPECIES			0	
3) THIS TABLE			STUDS	
SUPPORTING N				REATER
THAN 6'-0"				

SPACING (INCHES O.C.)

SUPPORTING A ROOF ONLY

2x4

2x4

2x6

2x6

2x6

DR

2x4

2x6

2x6

2x6

2x6

DR

2x6

2x6

2x6

2x6

DR

DR

SUPPORTING TWO FLOORS AND A ROOF

SUPPORTING ONE FLOOR AND A ROOF

2x4

2x6

2x6

2x6

DR

DR

2x6

2x6

2x6

DR

DR

2x6

2x6

2x6

DR

DR

DR

12

2x4

2x4

2x6

2x6

2x6

2x6

2x4

2x6

2x6

2x6

2x6

2x6

2x4

2x6

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2x6

2x6

DR

2x4

2x4

2x4

2x4

2x6

2x6

2x4

2x4

2x6

2x6

2x6

2x6

2x4

2x6

2x6

2x6

2x6

2x6

10 HEADER/BEAM CONNECTION OPTIONS AT OUTDOOR/OPEN SPACE \$3.2 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

8 MAXIMUM ALLOWABLE LENGTH OF WOOD WALL STUDS (IRC TABLE 602.3.1)



CLIENT: WALKER CUSTOM HOMES, LLC

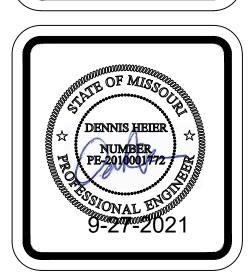
JOB TITLE: HHF018 SPEC

LOT 18, HOMESTEAD AT HOOK FAR

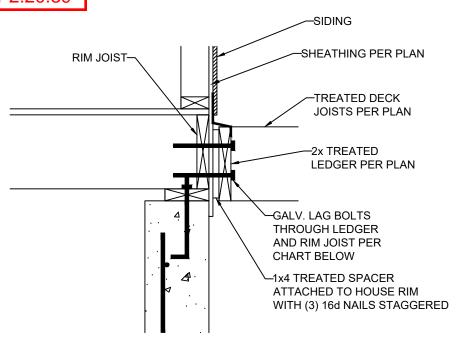
1st PLAT

LOCATION: 2034 SW HOOK FARM DR.

LEE'S SUMMIT, MISSOURI

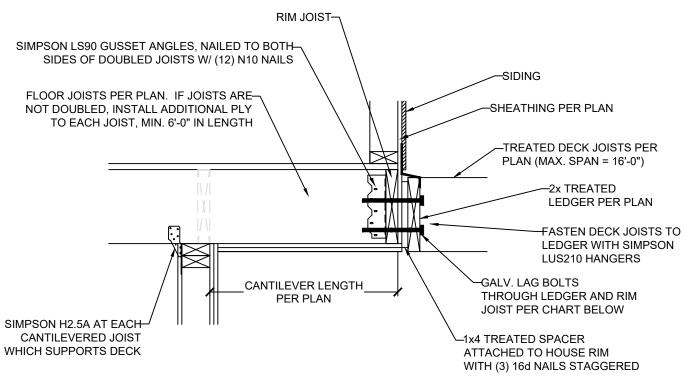


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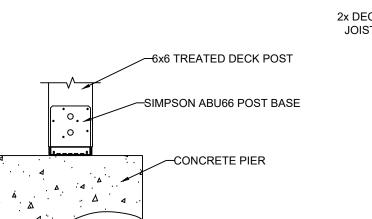
DECK LEDGER ATTACHMENT GUIDE

DECK JOIST SPAN	$\frac{1}{2}$ " Ø GALV. LAG OR $\frac{3}{8}$ " 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

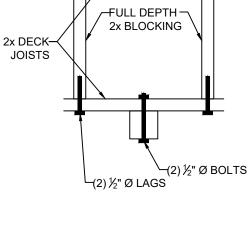


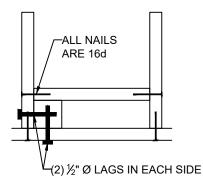
CANTILEVER WITH DECK ATTACHMENT

S3.3/SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



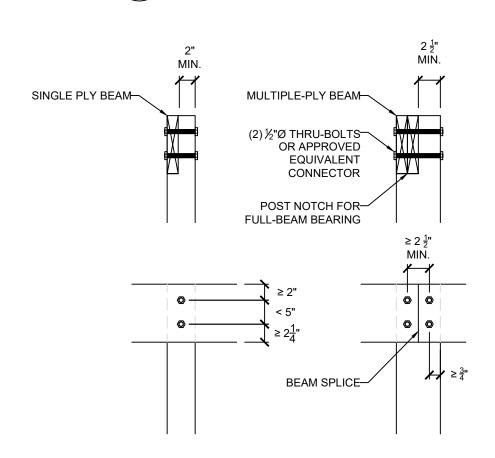
\DECK POST BASE \$3.3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



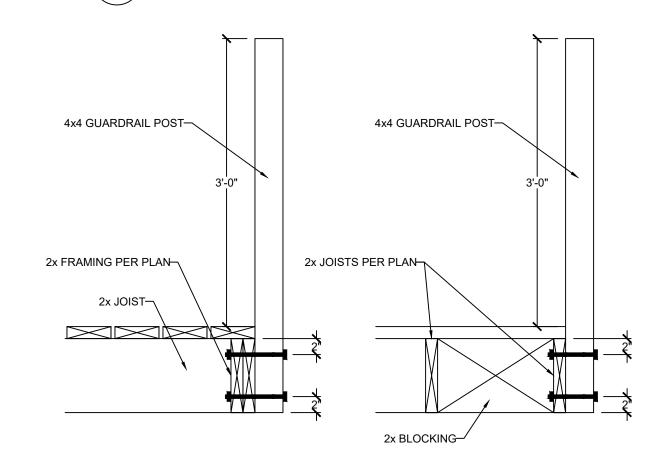




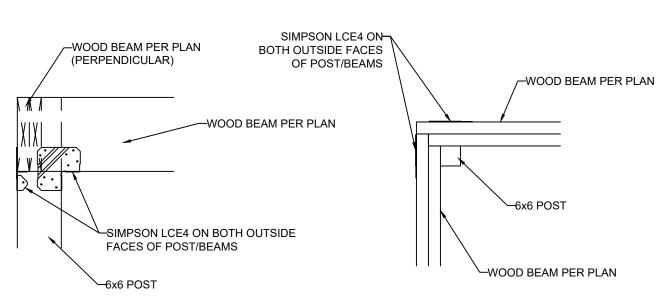
LEDGER ATTACHMENT \$3.3\rightarrow\$SCALE: 1" = 1'-0" (18x24) OR 1\frac{1}{2}" = 1'-0" (24x36)



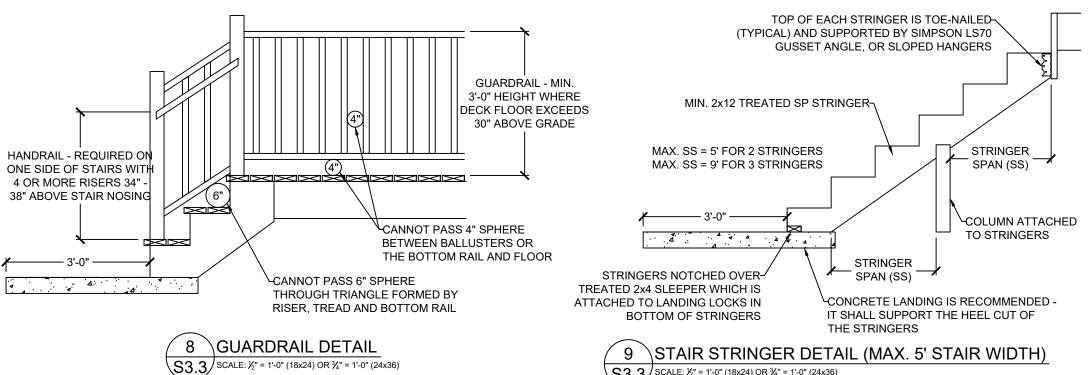
\LET-IN (COVERED) DECK BEAM CONNECTION \$3.3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



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



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

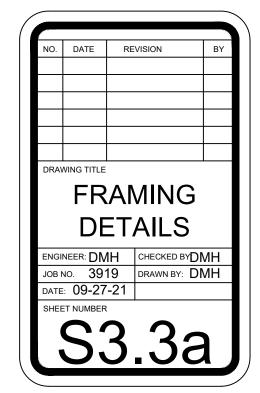


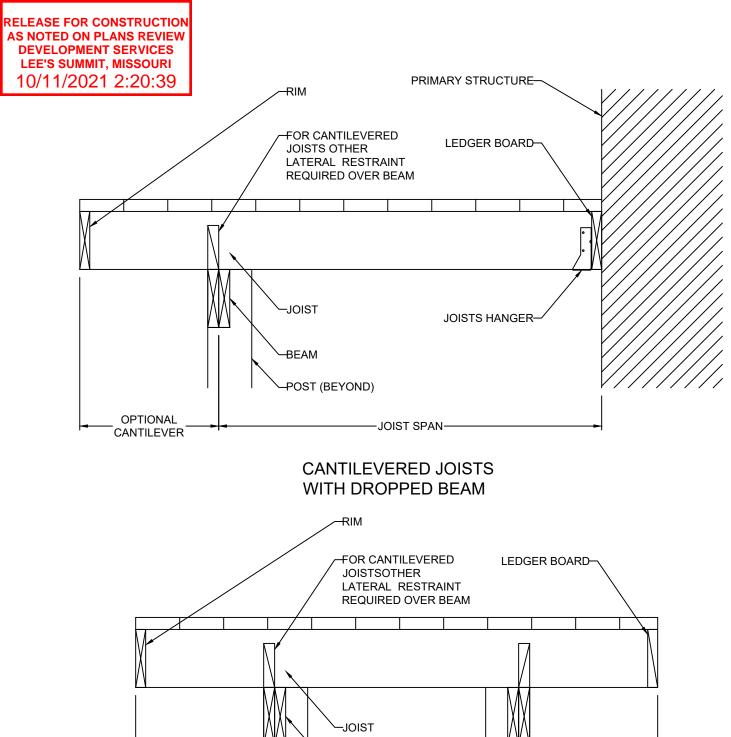
\$3.3 SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)

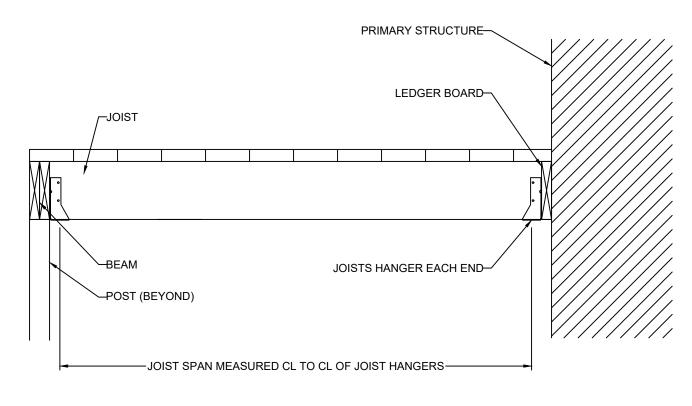


HOOK FARM DR. MISSOURI WALKER CUSTOM HOMES, : HHF018 SPEC LOT 18, HOMESTEAD A 1st PLAT 2034 SW HOOK F LEE'S SUMMIT, N TITLE CLIENT: JOB

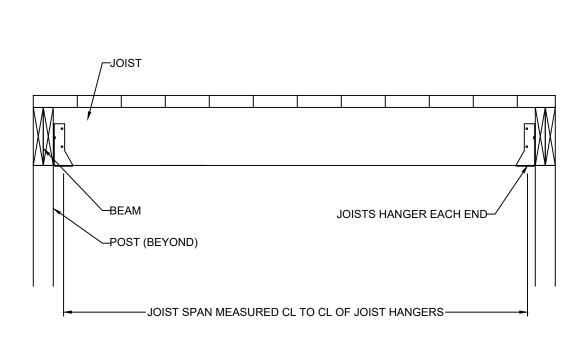




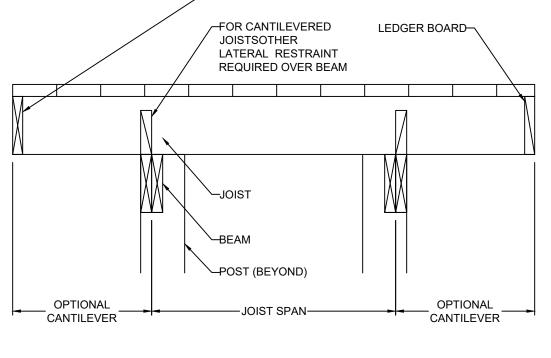




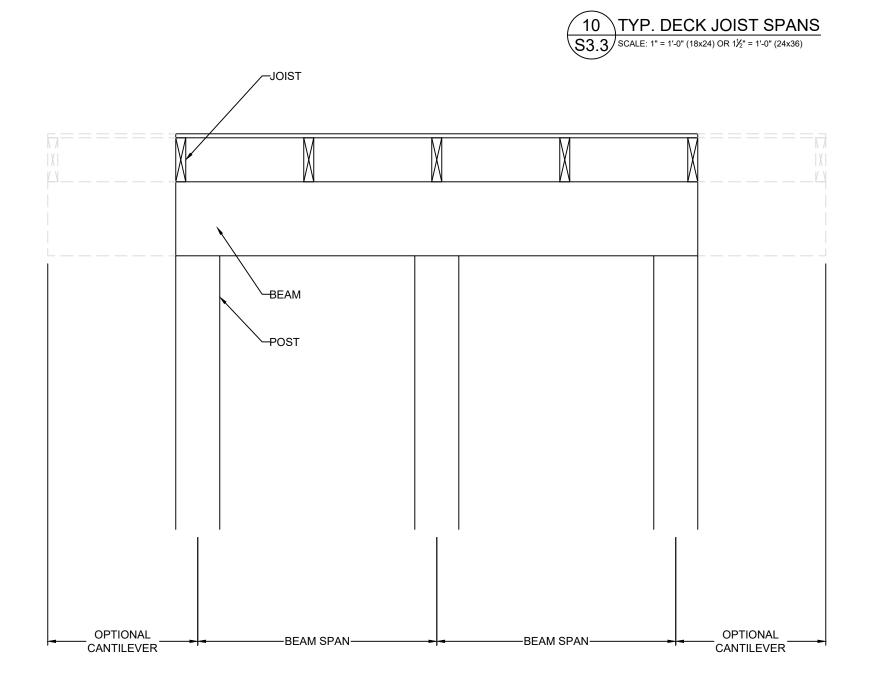
JOISTS WITH FLUSH BEAM

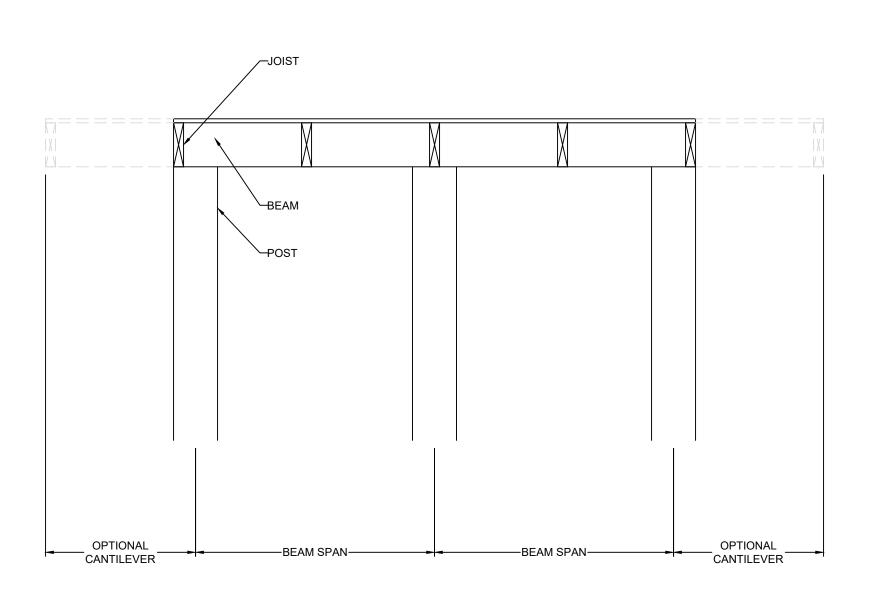


JOISTS WITH FLUSH BEAM



JOISTS ON FREE-STANDING DECK WITH DROPPED BEAM





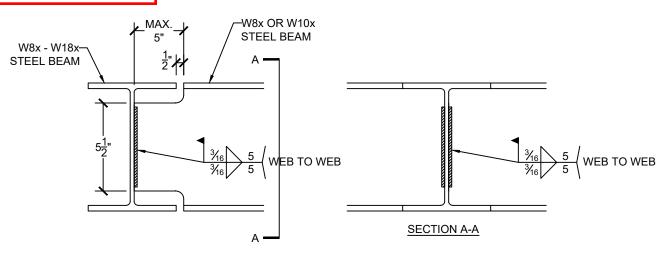
HHF018 SPEC LOT 18, HOMESTEAD AT HOOK 1st PLAT

2034 SW HOOK FARM DR. LEE'S SUMMIT, MISSOURI



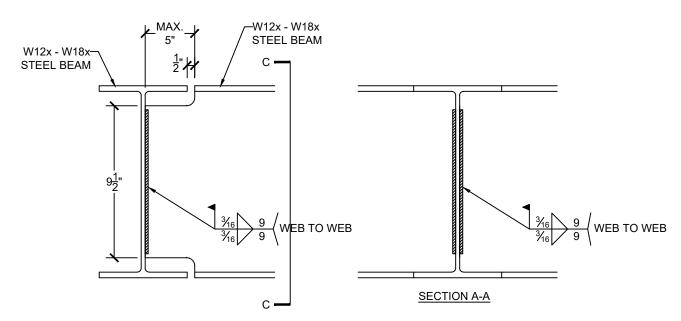
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DROPPED BEAM **FLUSH BEAM**



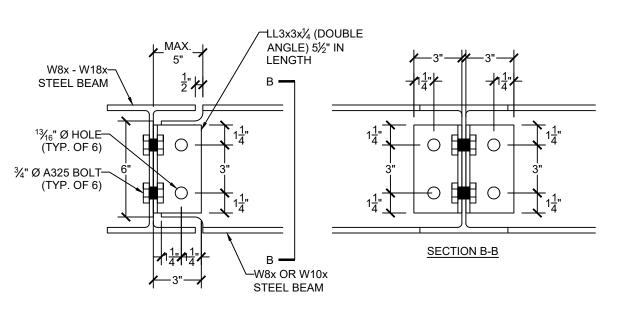
WELDED T-BEAM CONNECTION FOR W8x AND W10x BEAMS \$3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

(OPTION #1)

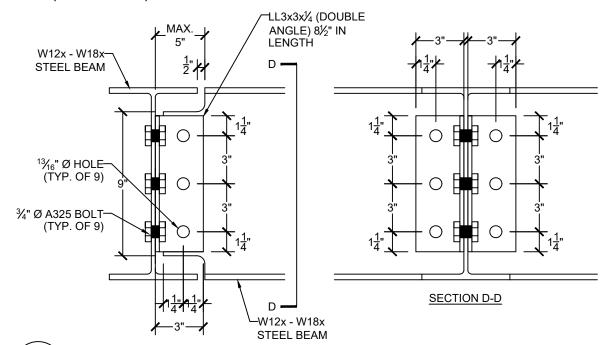


2 WELDED T-BEAM CONNECTION FOR W12x, W14x, W16x & W18x BEAMS S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

(OPTION #1)



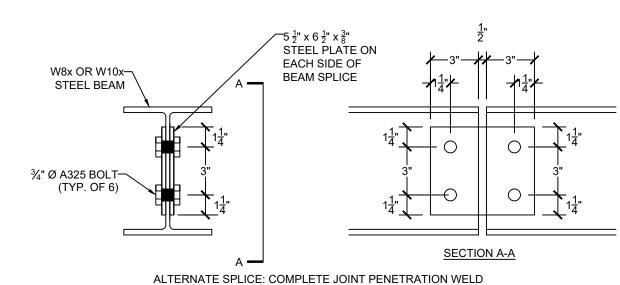
BOLTED T-BEAM CONNECTION FOR W8x AND W10x BEAMS



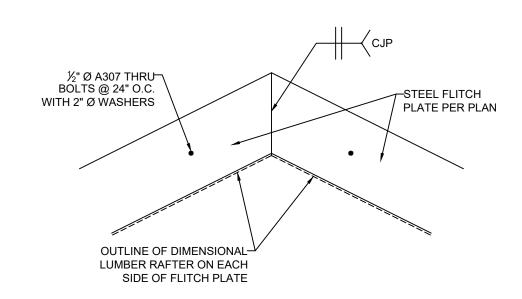
\BOLTED T-BEAM CONNECTION FOR W12x, W14x, W16x & W18x BEAMS

(OPTION #2)

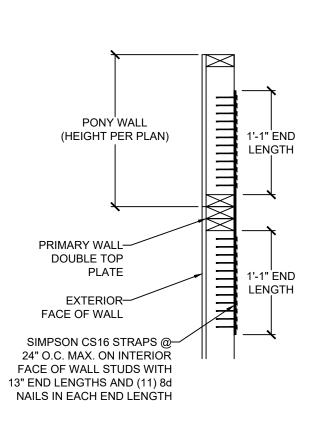
(OPTION #2)



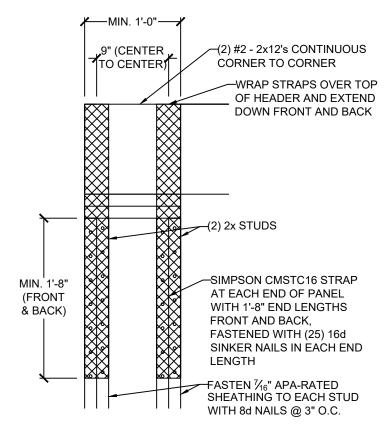
\BEAM SPLICE CONNECTION FOR W8x AND W10x BEAMS



RAFTER FLITCH PLATE DETAIL \\$3.4\rightarrow\scale: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

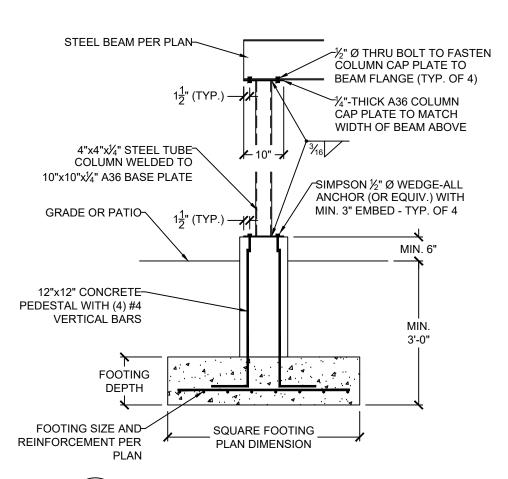


SPLICED WALL CONNECTION \$3.4\rightarrow\$ SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

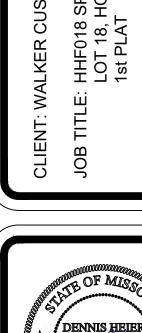


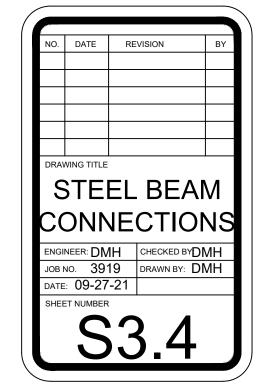
NOTE: SILL PLATE OF PANEL SHALL BE MIN. (1) 2x AND FASTENED WITH ½" Ø ANCHOR BÓLT AND 2" Ø WASHER PLATE





\EXTERIOR STEEL COLUMN CONNECTIONS \$3.4\scale: \(\frac{1}{2}\)" = 1'-0" (18x24) OR \(\frac{3}{4}\)" = 1'-0" (24x36)





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HOOK FARM DR. MISSOURI AT WALKER CUSTOM HOMES, : HHF018 SPEC LOT 18, HOMESTEAD A 1st PLAT 2034 SW HOOK F LEE'S SUMMIT, N LOCATION:

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