

7 2330 SE RANSON RD LEES SUMMIT, MO 6408 CAD Construction Documents Voice / Text : 913.638.3241 mgspencer@sbcglobal.net Residential AutoCAD Drafting and Design Services Date Description CONSTRUCTION DOCUMENTS 2021.04 2021 Jun 0⁻ CCD SBKC Checked By 101 A

1/4" = 1'-0"

Scale

02/17/2022













LEFT ELEVATION





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REAR ELEVATION SCALE 1/4"=1'-0"





LOWER LEVEL FOUNDATION PLAN - (1,944 SF FINISHED)

SCALE 1/4"=1'-0"







SCALE 1/4"=1'-0"



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Scale





	03_Abbreviation Schedule
Abbreviation	Abbreviation Name
+/- ADDNL	ADDITIONAL
ADJ	
AE99	STRUCTURAL STEEL
AFF ALT	ABOVE FINISHED FLOOR ALTERNATE
AR	ANCHOR ROD
ARCH B/	ARCHITECT OR ARCHITECTURAL BOTTOM OF
B/W	BETWEEN
BLDG	BLOCKING
BM	BEAM
BRG	BEARING
BWP	BRACED WALL PANEL
CHKD	CHECKED
CIP	
CJP	COMPLETE JOINT PENETRATION
CL CLR	CENTERLINE
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
db	DIA OF REINF BAR, DIA OF BOLT
DBA	DEFORMED BAR ANCHOR
DIA or Ø	DIAGONAL
	DIRECTION
EA	EACH
EE	EXTENDED END EXPANSION JOINT
ELEV	ELEVATION
ENGR EOD	ENGINEER EDGE OF DECK
EOS	EDGE OF SLAB
EQ EW	EQUAL EACH WAY
EXIST	EXISTING
FDN	FOUNDATION
FLG	FLANGE
FLR	FLOOR FAR SIDE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED GRADE BEAM
GC	GENERAL CONTRACTOR
HORIZ HSA	HORIZONTAL HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
IF INT	INSIDE FACE INTERIOR
JST	JOIST
LCE	COMPRESSION EMBEDMENT LENGTH
	COMPRESSION LAP SPLICE LENGTH
LLV	LONG LEG VERTICAL
LTE	TENSION EMBEDMENT LENGTH
LW	
MFCR	METAL
NIC	
	NOT TO SCALE
00	
OPP	OPPOSITE
OVS P/C	OVERSIZED
PAF	POWDER ACTUATED FASTENER
PAR PEMB	PARALLEL PRE-ENGINEERED METAL BUILDING
PEN	PENETRATION
PERP	PERPENDICULAR PLATE
PLF	POUNDS PER LINEAR FOOT
PRELIM	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
RC	REINFORCED CONCRETE
RE: REINF	REFER TO REINFORCING
REQD	REQUIRED
RF SC	KIGID FRAME SLIP CRITICAL
SDS	SELF DRILLING SCREW
SIM SLV	SIVILAR SHORT LEG VERTICAL
SOG	SLAB ON GRADE
<u> </u>	STAINLESS STEEL
STD	STANDARD
STIK	STEEL
SW	SHEAR WALL
T&B	TOP AND BOTTOM
T/ TRANC	
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W/	WITH
W/O WF	WITHOUT WIDE FLANGE
WP	WORK POINT

STRUCTURAL GENERAL NOTES

DESIGN CRITERIA:	
1. LIVE LOADS [UNIFORM (PSF) / POINT LOADS	S (KIPS)]:
ROOF:	20 PSF / 1.0 K
ELEVATED FLOORS	40 PSF / 1.0 K

-- ELEVATED GARAGE FLOORS 50 PSF / 2.0 K 20 PSF 2. GROUND SNOW LOAD (Pg):..

3. BASIC WIND SPEED (3 SEC GUST):... 109 MPH

4. DECK GUARD RAIL LOAD:

DECK GUARD RAIL LOAD:	200# CONCENTRA APPLIED IN ANY D	TED LOAD
AREA	MIN DEAD LOAD	MIN LIVE LOAD
BALCONIES (EXTERIOR) AND DECKS	10	40
CEILING JOISTS W/O STORAGE (SCUTTLE ACCESS ONLY)	10	10
CEILING JOISTS - ATTICS W/ STORAGE DOOR OR PULL DOWN LADDER ACCESS)	10	20
ROOMS - NON SLEEPING	15	40
SLEEPING ROOMS	15	30
ROOF - LIGHT ROOF COVERING	15	20
ROOF - HEAVY ROOF COVERING (CONCRETE/TILE/SLATE)	20	20

STRUCTURAL GENERAL NOTES:

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE "INTERNATIONAL RESIDENTIAL CODE, 2018 EDITION". CONSULT WITH THE LOCAL JURISDICTION FOR INSPECTION REQUIREMENTS

2. CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.

3. IF DISCREPANCIES EXIST BETWEEN STRUCTURAL PLANS, ARCHITECTURAL PLANS, OTHER PLANS, OR SPECIFICATIONS, THE CONTRACTOR OR SUBCONTRACTOR SHALL PROVIDE A WRITTEN REQUEST FOR CLARIFICATION FROM THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH THE WORK

4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO EXECUTE AND DETERMINE FINAL ERECTION PROCEDURES, SEQUENCING AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION.

5. FABRICATORS AND SUPPLIERS SHALL CLEARLY NOTE AND HIGHLIGHT CHANGES MADE IN SHOP DRAWINGS, WHICH DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.

6. BEAMS, COLUMNS, WALLS, AND FOOTING CENTERS SHALL BE CENTERED UNDER SUPPORTING MEMBERS (TYPICAL UNLESS NOTED OTHERWISE).

EARTHWORK AND FOUNDATIONS:

1. PRESUMPTIVE ALLOWABLE BEARING PRESSURE = 1,500 PSF (PER THE IRC). ALL FOOTINGS AND FOUNDATIONS SHALL BEAR ON NATIVE UNDISTURBED SOIL. NOTIFY ENGINEER IF FILL IS ENCOUNTERED BELOW FOOTING BEARING LOCATIONS.

2. ALL PERIMETER AND EXTERIOR FOOTINGS SHALL EXTEND AT LEAST 3'-0" BELOW FINAL ADJACENT GRADE. DEEPEN FOOTINGS AS REQUIRED TO PROVIDE THIS MINIMUM BOTTOM OF FOOTING.

3. SURFACE WATER SHALL NOT BE ALLOWED TO STAND ADJACENT TO OR DRAIN TOWARDS THE FOUNDATION UNDER ANY CIRCUMSTANCES. PAVEMENTS OR GRADED SOILS AT THE PERIMETER OF THE BUILDING, EXCEPT AS REQUIRED AT EXITS OR AS NOTED, SHALL BE SLOPED AWAY AT 5% OR 6" MIN FOR THE FIRST TEN FEET.

4. FOOTINGS MAY BE POURED TO NEAT LINES OF EXCAVATIONS PROVIDING VERTICAL LINES OF EXCAVATIONS CAN BE MAINTAINED DURING CONCRETE PLACEMENT.

5. FOUNDATION CONTRACTOR TO ENSURE PROPER ANCHOR ROD PROJECTION AND THAT ANCHOR RODS ARE HELD SECURELY IN POSITION PRIOR TO CONCRETE PLACEMENT. STRUCTURAL STEEL COLUMN ANCHOR RODS SHALL BE SET WITH A TEMPLATE.

6. FOUNDATION WALL BACKFILL SHALL NOT BE UNBALANCED BY MORE THAN TWO FEET ON EITHER SIDE AT ANY TIME. BASEMENT WALL AND RESTRAINED RETAINING WALL BACKFILL SHALL NOT BE PLACED, UNLESS THE WALL IS ADEQUATELY BRACED. RETAINING WALL AND BASEMENT WALL BACKFILL SHALL BE FREE DRAINING GRANULAR BACKFILL.

7. SOIL CONDITIONS AT THE TIME OF CONSTRUCTION SHOULD BE EVALUATED BY THE CONTRACTOR. SOIL THAT IS TOO DRY OR TOO WET MAY BE SUBJECT TO EXCESSIVE SHRINKING OR SWELLING. IN ADDITION, SOME ON-SITE SOILS MAY BE UNSUITABLE FOR BACK FILL.

CONCRETE AND MASONRY REINFORCING STEEL:

ALL REINFORCING BARS SHALL MEET ASTM A615 GRADE 40.

WHICHEVER IS GREATER.

3. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE ³/₄" CLEAR FOR SLABS, 2" CLEAR FOR FORMED SURFACES AND 3" CLEAR FOR FOOTINGS (TYPICAL UNLESS NOTED OTHERWISE).

4. CONTRACTOR SHALL VERIFY THAT ALL REINFORCEMENT, SLAB DOWELS, INSERTS, SLEEVES AND EMBEDDED ITEMS ARE PROPERLY LOCATED AND RIGIDLY SECURED PRIOR TO CONCRETE PLACEMENT, "WET STICKING" DOWELS WILL NOT BE ALLOWED.

CAST IN PLACE CONCRETE:

CONSTRUCTION" (UNLESS NOTED OTHERWISE)

- a. FOOTING AND GRADEBEAM CONCRETE... b. BASEMENT / FOUNDATION WALL
- c. INTERIOR SOG & STRUC SLAB d. EXTERIOR SLAB ON GRADE AN

3. EXTERIOR CONCRETE (FLOOR SLABS, WALLS, ETC) INCLUDING GARAGE FLOORS SHALL HAVE 6% (PLUS/MINUS 1%) ENTRAINED AIR.

4. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" (VERIFY WITH ARCHITECT).

5. NO ALUMINUM SHALL BE EMBEDDED IN ANY CONCRETE.

6. NO CALCIUM CHLORIDE SHALL BE USED IN CONCRETE.

7. THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

UNREINFORCED. REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH THE SAME REINFORCING AS SIMILAR SECTIONS OR AREAS.

9. CONSTRUCTION JOINTS IN GRADE BEAMS, CONTINUOUS FOOTINGS, AND WALLS THAT DO NOT CHANGE DIRECTION SHALL BE SPACED NO GREATER THAN 60'-0". INTERMEDIATE CONTROL JOINTS SHALL BE SPACED AT 25'-0" MAX FOR WALLS. CONTROL JOINTS IN WALLS SHALL ALSO BE LOCATED 15'-0" FROM CORNERS AND AT CHANGES IN WALL THICKNESS.

10. WHERE FRESH CONCRETE IS DEPOSITED AGAINST HARDENED CONCRETE (GREATER THAN 8 HRS OLD), CLEAN EXISTING SURFACE OF LAITANCE AND FOREIGN MATERIAL AND DAMPEN THE EXISTING SURFACE. IF REQUIRED, ROUGHEN EXISTING CONCRETE TO 1/4" AMPLITUDE.

11. SLABS ON GRADE SHALL BE 4" THICK MIN ON 6" OF GRANULAR FILL. REINF SLAB WITH 6 x 6-W2.1xW2.1 WWR, #3 BARS AT 18" OC, OR #4 BARS AT 24" OC (UNLESS NOTED OTHERWISE). ALL REINF SHALL BE PLACED IN UPPER 1/3 OF SLAB THICKNESS. AT INTERIOR SLABS, AN 8 MIL VAPOR BARRIER SHALL BE PLACED BETWEEN THE CONCRETE AND GRANULAR BASE AND CARE SHOULD BE TAKEN DURING CURING TO PREVENT SLAB CURLING. THIS NOTE SHALL BE TYPICAL UNLESS NOTED OTHERWISE.

12. SAW CUT JOINTS OR KEYED CONSTRUCTION JOINTS IN SLABS ON GRADE SHALL BE SPACED TO DIVIDE THE SLAB INTO PANELS NOT TO EXCEED 225 SQUARE FEET. THE LONGER DIMENSION OF EACH PANEL SHALL NOT EXCEED THE SHORTER DIMENSIONS BY MORE THAN 40%. JOINTS SHALL BE LOCATED AT COLUMN CENTERLINES WHERE POSSIBLE. SPACING BETWEEN JOINTS SHALL NOT EXCEED 15 FEET. CONTRACTOR SHALL SUBMIT JOINT LAYOUT TO ARCHITECT FOR APPROVAL.

13. REINFORCEMENT SHALL BE CONTINUOUS AND LAPPED 53 BAR DIAMETERS (2' -6" MIN) EXCEPT AS NOTED AND PROVIDE CORNER BARS OF SAME SIZE AND SPACING.

14. MINIMUM REINFORCING AROUND CONCRETE WALL OPENINGS 2'-0" OR GREATER (TYPICAL UNLESS NOTED OTHERWISE): (2) #5, EXTEND REINF 2'-0" PAST OPENINGS. PROVIDE (2) #5 x 4'-0" DIAGONAL BARS AT CORNERS.

15. MINIMUM REINFORCING IN PERIMETER STEM WALL SHALL BE #4 VERTS @ 16" OC WITH STD HOOKS INTO FOOTING AND #4 HORIZ @ 16" OC MAX. IN FOOTING PROVIDE (2) #4 CONTINUOUS W/ #4 TRANSVERSE @ 16" OC MAX.

16" OC MAX.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHAPES AND PLATE MATERIAL REQUIREMENTS (TYPICAL UNLESS NOTED OTHERWISE):

- a. WIDE FLANGE SHAPES ASTM A992 (FY = 50 KSI MIN.)
- c. RECTANGULAR HSS ASTM A500, GR B (FY = 46 KSI) d. ANCHOR RODS – ASTM F1554 (FY = 36 KSI MIN)

e. ROUND PIPE - ASTM A53, GRB (FY=35 KSI MIN)

"CODE OF STANDARD PRACTICES FOR STEEL BUILDINGS AND BRIDGES", EXCLUDING SECTION 4.4.1.B.

3. WELDING SHALL CONFORM TO THE CURRENT AND APPLICABLE AWS STANDARDS AND BE COMPLETED BY AN AWS CERTIFIED WELDER.

a. AWS D1.1 - STRUCTURAL WELDING CODE - STEEL b. AWS D1.3 – STRUCTURAL WELDING CODE – SHEET STEEL c. AWS D1.6 – STRUCTURAL WELDING CODE – STAINLESS STEEL

4. WELD SIZES SHALL BE INCREASED TO MEET THE REQUIRED EFFECTIVE THROAT WIDTH IF GAPS EXIST AT THE FAYING SURFACE.

5. NO COLUMN OR BEAM SPLICES, UNLESS CLEARLY INDICATED ON THE

STRUCTURAL ENGINEER.

6. GROUT WHERE INDICATED ON PLANS AT BASE PLATES SHALL BE NON-METALLIC NON-SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 6,000 PSI AT 28 DAYS CONFORMING TO ASTM C1107.

7. ALL POST INSTALLED ANCHORS WHERE NOTED SHALL BE MANUFACTURED BY HILTI, INC. OR SIMPSON STRONG TIE AND BE INSTALLED PER THE MANUFACTURERS SPECIFICATIONS. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL WITH APPROPRIATE ICBO EVALUATION REPORTS.

GARAGE

- 1. THE GARAGE FLOOR SHALL SLOPE TOWARD THE GARAGE DOOR.
- BETWEEN THE HOUSE AND GARAGE.

3. 1/2" GYP BOARD SHALL BE USED ON WALLS BETWEEN GARAGE AND HOUSE. 5/8" TYPE-X GYP BOARD SHALL BE USED ON THE GARAGE CEILING.

2. ALL MESH SHALL MEET ASTM A-185: LAP A MINIMUM OF 8" OR ONE FULL MESH,

1. CONCRETE CONSTRUCTION SHALL ADHERE TO THE RECOMMENDATIONS AND REQUIREMENTS OF ACI 332 - "REQUIREMENTS FOR RESIDENTIAL CONCRETE

2. REQUIRED MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS:

DNCRETE	3,500 PSI
LL CONCRETE	4,000 PSI
ABOVE GRADE	3,500 PSI
ID GARAGE FLOOR SLA	BS4,000 PSI

8. ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS

16. MINIMUM REINFORCING IN ROUND PIERS SHALL BE (5) #3 VERTS W/ #3 TIES AT

b. CHANNELS, ANGLES, AND PLATES: - ASTM A36 (FY = 36 KSI MIN)

2. STRUCTURAL STEEL SHALL BE NEW AND MEET THE 15TH EDITION AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES", AND THE

STRUCTURAL DRAWINGS, WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE

2. NEW GARAGE DOOR SHALL BE A 20 MINUTE OR 1-3/8" SOLID WOOD DOOR

WOOD:

1. FRAMI A. NOMIN MIN E = 1, B. EXPOS

Fb = 1,000 C. MICRO SPECIFIC D. TIMBEF

JOIST SPE E. GLULA WITH ARCI

2. SUBST REVIEW (

3. WOOD A. ROOF EXPOSURI RAFTER S B. FLOOF SPAN, F PAGE.

C. WALL RATING C BACKED NAILS AT MAXIMUM

4. ALL WO PERPEND

5. PROVI OTHERWI CONDITIO SHEATHIN

6. ALL HE THAN 3'-8'

7. PROVII AND POIN SIZE OF P

ING MAT VAL STR ,400 KSI	ERIAL: UCTURAL LUMBER NO.2 OR BETTER, KD D. FI	7. LIGHT GAUGE WOOD FRAMING CONNECTORS AS NOTED ON WOOD JOISTS, COLUMNS, BEAMS AND TRUSSES SHALL BE "STF CONNECTORS BY THE SIMPSON CO. OR REVIEWED EQUIVALEN DIRECT CONTACT WITH PRESSURE TREATED LUMBER SHALL H. HOT DIP GALVANIZED COATING OR REVIEWED EQUIVALENT.	THE PLANS FO RONG – TIE" T. CONNECTOF AVE "ZMAX" G18	 2. REFER TO THE IRC FOR ALL REQUIREMENTS NOT SPECIFICALLY STATED IN THE PLANS. THIS INCLUDES FIRE RATINGS, LIGHTING AND VENTILATION, SANITATION, RS IN GLAZING, GARAGES, SMOKE ALARMS AND CARBON MONOXIDE ALARMS, MEANS OF 85 EGRESS, AND PROTECTION AGAINST DECAY AND TERMITES. 		PAUL WESLEY
SED NOI 0 PSI, MI 0LLAM L	MINAL STRUCT LUMBER PRESS TREATED NO. N E = 1,300 KSI VL (LAMINATED VENEER LUMBER) BEAMS SHAL	2 OR BETTER, MIN 8. STAINLESS STEEL FASTENERS, ANCHOR BOLTS, LIGHT GAUG L MEET TRUS JOIST ETC. MAY BE SUBSTITUTED FOR HOT DIP GALVANIZED MATERI/	GE CONNECTOR ALS AT THE	3. CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL, ELECTRICAL, AND RS, PLUMBING IS DESIGNED AND INSTALLED TO MEET THE REQUIREMENTS OF THE APPLICABLE IRC.	ROFF	NUMBER PE-2009003624
CATIONS ERSTRAM ECIFICA	: MINIMUM Fb = 2,600 PSI AND MINIMUM E = 1,90 ID LSL (LAMINATED STRAND LUMBER) BEAMS S TIONS: MINIMUM Fb = 2,600 PSI AND MINIMUM E	0 KSI. CONTRACTORS OPTION. HALL MEET TRUS = 1,700 KSI. 9. ALL RAFTER AND CEILING JOIST CONNECTIONS SHALL COMP	PLY WITH IRC	4. EGRESS WINDOWS SHALL COMPLY WITH SECTION 310 OF THE IRC.		06/02/2021
AM FRAN CH).	1ING: 24F-V4 DOUGLAS FIR, ARCHITECTURAL F	INISH (COORDINATE SECTION 802.3. PROVIDE UPLIFT CONNECTORS AT ROOF TO W/ PER IRC SECTION 802.11.	ALL CONNECTIO	ONS 5. WALL COVERINGS SHALL BE WATER-RESISTANT AND COMPLY WITH SECTION 703.2 OF THE IRC.	SEALEI	D FOR STRUCTURAL
TUTION	S OF SPECIFIED WOOD MEMBERS SHALL NOT I ARCHITECT/ENGINEER.	3E MADE WITHOUT 10. STUDS SHALL BE CONTINUOUS FROM FLOOR TO ROOF DIA SECTION 602.3. WALL STUDS SHOULD NOT BE INTERRUPTED AT UNLESS BRACED BY A CEILING. WALLS EXTENDING HIGHER TH/	PHRAGM PER IF GABLE WALLS AN TYPICAL SIN	RC 6. WINDOWS SHALL HAVE FALL PROTECTION PER IRC 312.2. S 5 NGLE 7. PROVIDE CARBON MONOXIDE DETECTORS PER IRC SECTION R315.		REVIEW
SHEATH SHEATH RE 1. MIN	IING: IING SHALL BE 15/32" OR 1/2" WITH AN APA SPA VIMUM 2 SPAN. FASTEN PER THE CHART ON TH	FLOOR PLATFORM FRAMING, SHALL BE CONTINUOUS (NOT INTE N RATING OF 32/16, IS PAGE. IF ROOF	ERRUPTED) TO	NEXT 8. ALL NEW CONSTRUCTION SHALL COMPLY WITH THE ENERGY CONSERVATION CODE AS LISTED IN CHAPTER 11 OF THE IRC. THIS INCLUDES:	20	2
SPACINO R SHEAT ASTENEI	G IS 24" OR GREATER THEN USE PLYCLIPS AT M HING SHALL BE TONGUE AND GROOVE, EXPOS D WITH APA APPROVED ADHESIVE AND PER TH	IDSPAN.11. SILL ANCHOR RODS SHALL BE 1/2" DIAMETER EMBEDDED 7"URE 1, MINIMUM 2CONCRETE, SPACED NO FURTHER THAN 3'-0" OC, AND SHALL OE CHART ON THISTHE ENDS OF A SILL PLATE. EACH SILL PLATE SHALL HAVE A M ANCHOR RODS. PROVIDE 2" SQ PLATE WASHERS AND NUTS.	MIN INTO CCUR WITHIN 1 INIMUM OF 2	WALLS - INSULATE WITH R-13 MIN 12" OF ATTICS - INSULATE WITH R-49 MIN (EXCEPTION: R-38 FOR VAULTED CEILINGS); USE 8" OF RIGID INSULATION (R40) IN VAULTED CEILINGS FLOORS OVER UNCONDITIONED SPACE - INSULATE WITH R-19 MIN	N L	
WHEN 16" OR L WHEN	CLEAR DISTANCE BETWEEN FLOOR JOISTS OR ESS USE 3/4" SHEATHING WITH AN APA SPAN F CLEAR DISTANCE BETWEEN FLOOR JOISTS OR	FLOOR TRUSSES ISCATING OF 48/24.12. PROVIDE FULL DEPTH 2x BLOCKING BETWEEN JOISTS OVERFLOOR TRUSSES ISBEARING WALLS AND AT DOWNSET GIRDERS	R ALL INTERIOR	CRAWL SPACE WALLS - INSULATE WITH R-10 MIN R LOAD BASEMENT WALLS - R-13 CAVITY OR R-10 CONTINUOUS SLABS SHALL BE R-10 FOR A DEPTH OF 2'-0"	30	11
GREATE 60/32. SHEATH	ER THAN 16" USE 7/8" SHEATHING WITH AN APA	SPAN RATING OF 13. PROVIDE SOLID BLOCKING IN FLOOR FRAMING BELOW LOAD H AN APA SPAN AND POINT LOADS ABOVE. BELOW POINT LOADS BLOCKING ARI	D BEARING WAL EA SHOULD MA	DUCTWORK OUTSIDE OF CONDITIONED SPACES - R-8 MIN LLS WINDOWS SHALL HAVE A "U" VALUE OF 0.35 OR BETTER NTCH	2=	X
OF 24/16 WITH 2 I 6" OC M	, UNLESS NOTED OTHERWISE. ALL PANEL EDGE NCH NOMINAL OR WIDER FRAMING. FASTEN WI AXIMUM AT ALL TOP PLATES, BLOCKING, BOUN	S SHALL BE SIZE OF POST ABOVE TH 8d COMMON DARIES AND 10" OC		9. ALL EXTERIOR DOORS INCLUDING THE DOOR LEADING FROM THE GARAGE TO THE DWELLING UNIT SHALL INCORPORATE THE PHYSICAL SECURITY REQUIREMENTS OF THE LOCAL JURISDICTION AS REQUIRED.	12-	
/ IN THE OOD SH	FIELD. EATHING TO BE STAGGERED 4'x8' SHEETS ORIE	ENTED 1. THE DRAWING SET IS CONSIDERED TO BE "BUILDERS PLANS"	WHEREBY SOM	10. THE THERMAL ENVELOPE OF THE BUILDING IS REQUIRED TO BE SEALED PER IRC SECTION N1102.4.1 AND TABLE N1102.4.1.1.	_Ou	1
Dicular Ide 1/8" (TO SUPPORTING MEMBERS. GAP AT ALL SHEATHING PANEL EDGES AND ENI	ASPECTS OF THE PROJECT'S REQUIREMENTS ARE LEFT TO TH UNDERSTAND AND IMPLEMENT. AS SUCH, IT IS A REQUIREMENT O JOINTS UNLESS CONTRACTOR (BUILDER) BE COMPETENT IN RESIDENTIAL CONS	E CONTRACTOF T THAT THE STRUCTION ANI	R TO 11. ALL DUCTS, AIR HANDLERS, FILTER BOXES, AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED PER IRC SECTION N1103.2.2.	Signatu	ure Builders KC, LLC
'ISE SPE DNS, TEI NG.	CIFIED BY THE MANUFACTURER. DUE TO CONS MPORARY EXPANSION JOINTS MAY BE REQUIR	TRUCTION HAVE A THOROUGH UNDERSTANDING OF THE APPLICABLE INTE ED IN FLOOR/ROOF RESIDENTIAL CODES (IRC). THE CONTRACTOR IS RESPONSIBLE REQUIREMENTS OF THE BUILDING CODE WHETHER EXPLICITLY	ERNATIONAL FOR MEETING STATED OR NO	G THE OT. IF GLAZING	2751 NE	. Douglas St Suite R Jmmit, Missouri 64064
EADERS	IN EXTERIOR OR INTERIOR BEARING WALLS SP BE SUPPORTED ON DOUBLE STUDS UNLESS N	ADDITIONAL DETAIL OR GUIDANCE IS NEEDED BY THE CONTRA ANNING MORE HOMEOWNER, A WRITTEN REQUEST FOR SUCH GUIDANCE MAY THE ENGINEER	CTOR OR BE SUBMITTED	D TO 1. GLAZING IN HAZARDOUS LOCATIONS SHALL BE APPROVED SAFETY GLAZING MATERIALS PER IRC SECTION R308	F HO	ne. (010) 213-0091
IDE SOLI	D BLOCKING IN FLOOR FRAMING BELOW LOAD	BEARING WALLS				Website: www.sb-kc.net
POST AE	IOVE.			FLOOP (a) b (c)		
ITEM			21	JOIST TO SILL, TOP PLATE OR GIRDER TOE NAIL: (4) 8d BOX (2.5" x 0.113"), OR (3) 8d COMMON (2.5" x 0.131") OR (3) 10d BOX (3" x 0.128") OR (3) 3" x 0.131" NAILS		
	DESCRIPTION OF BUILDING ELEMENT	ROOF a b c	22	RIM JOIST, BAND JST, OR BLOCKING TO SILL OP TOP PLATE (POOF APPLICATIONS ALSO) OP 10d POX (3" x 0.113") @ 4" oc, OR 8d COMMON (2.5" x 0.131") @ 6" oc, OP 10d POX (3" x 0.128") @ 6" oc, OP 3" x 0.131" NAU S @ 6" oc,		
1	BLOCKING B/W JOISTS OR RAFTERS TO TOP PLATE.	TOE NAIL: (4) 8d BOX(2 1/2" x 0.113") OR (3) 8d COMMON (2.5" x 0.131") OR (3) 10d BOX (3" x 0.128") OR (3) 3" x 0.131" NAILS	23	1"X6" SUBELOOR OR LESS TO EACH JOIST FACE NAIL: (3) 8d BOX (2.5" x 0.113"), OR (2) 8d COMMON (2.5" x 0.131")	Δ	
2	CEILING JOISTS TO PLATE, PER JOIST	TOE NAIL: (4) 8d BOX(2 1/2" x 0.113") OR (3) 8d COMMON (2.5" x 0.131") OR (3) 10d BOX (3" x 0.128") OR (3) 3" x 0.131" NAILS	24	OR (3) 10d BOX (3" x 0.128") 2" SUBFLOOR TO JOIST OR GIRDER BLIND AND FACE NAIL; (2) 16d COMMON (3.5"x 0.162"); (3) 16d BOX (3.5" x 0.135")	ŬŬ	
3	CEILING JOISTS NOT ATTACHED TO	FACE NAIL: (4) 10d BOX (3" x 0.128") OR (3) 16d COMMON (3.5" x 0.162")	25	2" PLANKS (PLANK & BEAM - FLOOR AND ROOF) AT EA BRG, FACE NAIL; (2) 16d COMMON (3.5"x 0.162"); (3) 16d BOX (3.5" x 0.135") BAND OR RIM TO JOIST END NAIL: (3) 16d COMMON (3.5"x 0.162"), OR (4) 10d BOX (3" x 0.128"); OR (4) 3" x 0.131"		
4	CEILING JSTS ATTACHED TO PARALLEL	OR (4) 3" x 0.131" NAILS		BUILT-UP GIRDERS AND BEAMS, 2" LUMBER 20d COMMON (4"x0.192") @ 32" oc STAGGERED TOP AND BOT (2 NAILS @ EA END AND AT SPLICES).	Ψ	
4	RAFTER (HEEL JNT). SEE IRC SECT R802.5.2	SEE TADLE ROUZ.S.Z	21	LAYERS (3) 3"x0.131" @ 24" oc STAGGERED TOP AND BOT FROM EA SIDE (3 NAILS @ EA END AND AT SPLICES).	S.	
5	X 20 GA RIDGE STRAP; AT EACH RAFTER	FACE NAIL: (4) 10d BOX (3" x 0.128") OR (3) 10d COMMON (3" x 0.148") OR (4) 3" x 0.131" NAILS	28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERSAT EACH JST OR RAFTER, FACE NAIL: (4) 16d BOX (3.5"x0.135"), OR (4) 10d BOX (3" x 0.128") OR (3) 16d COMMON (3.5" x 0.162") OR (4) 3" x 0.131" NAILS	O O	
6	RAFTER OR ROOF TRUSS TO PLATE;	2 TOE NAILS ON 1 SIDE AND 1 TOE NAIL ON OPP SIDE OF EA RAFTER OR TRUSS; (3) 16d BOX(3.5" x 0.135") OR (3) 10d COMMON (3" x 0.148") OR (4) 10d BOX (3" x 0.128") OR (4) 3" x 0.131" NAILS	29	BRIDGING OR BLOCKING TO JST WOOD STRUCTURAL PANELS SUBELOOP, POOF AND INTERIOR WALL SHEATHING TO FRAMING (2, Y b Y c Y c Y b))82
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MIN 2" RIDGE BEAM	TOE NAIL: (4) 16d BOX(3.5" x 0.135") OR (3) 10d COMMON (3" x 0.148") OR (4) 10d BOX (3" x 0.128") OR (4) 3" x 0.131" NAILS END NAIL: (3) 16d BOX(3.5" x 0.135") OR (2) 10d COMMON (3" x 0.148") OR (3) 10d BOX (3" x 0.128") OR (3) 3" x 0.131" NAILS	30	6d COMMON (2" X 0.113") NAIL (SUBFLOOR, WALL) 3/8" TO 1/2" 8d COMMON (2 "X 0.113") NAIL (ROOF) OR RSRS-01 (2.375"x0.113") (ROOF) SPACING: 6" OC EDGES, 12" OC FIELD (f) (i)	din	N RD 10 640
		WALL (a)b(c)	31	19/32" TO 1" 8d COMMON (2 1/2" X 0.131") NAIL OR RSRS-01 (2.375"x0.113") (ROOF)		NSN H, H
8	STUD TO STUD (NOT AT BRACED WALL PANEL)	16d COMMON (3.5"x 0.162") @ 24" OC FACE NAIL; 10d BOX (3" x 0.128") @ 16" oc FACE NAIL; OR 3" x 0.131" @ 16" OC FACE NAIL	20	SPACING: 6" oc EDGES, 12" oc FIELD († () 10d COMMON (3" X 0.148") NAIL OR 11 1/8" TO 1 1/4"	T I	RA MM
9	INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON (3.5"x 0.162") @ 16" OC FACE NAIL; 16d BOX (3.5" x 0.135") @ 12" oc FACE NAIL; OR 3" x 0.131" @ 12" OC FACE NAIL	52	OTHER WALL SHEATHING (a)		0 SE S SU
10	BUILT-UP HEADER, TWO PIECES W/ 1/2" SPACER	ALONG EA EDGE (TYP); 16d COMMON (3.5"x 0.162") @ 16" OC FACE NAIL ; 16d BOX (3.5" x 0.135") @ 12" oc FACE NAIL	33	1/2" STRUC CELLULOSIC FIBERBOARD 1 1/2" GALV ROOFING NAIL 3" AT EDGES, 6" IN FIELD	here here	233(LEE
11	CONTINUOUS HEADER TO STUD	TOE NAIL: (5) 8d BOX(2 1/2" x 0.113") OR (4) 8d COMMON (2.5" x 0.131") OR (4) 10d BOX (3" x 0.128") OR (4) 3" x 0.131" NAILS	34	25/32" STRUC CELLULOSIC FIBERBOARD SHEATHING 1 3/4" GALV ROOFING NAIL 3" AT EDGES, 6" IN FIELD		
12	DOUBLE TOP PLATE SPLICE	10d BOX (3" x 0.128") @ 12" oc FACE NAIL; OR 3" x 0.131" @ 12" OC FACE NAIL FACE NAIL ON EA SIDE OF END JOINT, 24" LAP SPLICE. (TYP) (8) 16d COMMON (3.5"x 0.162"), OR (12) 16d BOX (3.5" x 0.135"); OR (12) 10d BOX (3" x 0.128"); OR (12) 3" x 0.131"	35 36	1/2" GYP SHEATHING (d) 1 1/2" GALV ROOFING NAIL OR 1 1/4" SCREWS (TYP W OR S) 7" AT EDGES, 7" IN FIELD 5/8" GYP SHEATHING (d) 1 3/4" GALV ROOFING NAIL OR 1 5/8" SCREWS (TYP W OR S) 7" AT EDGES, 7" IN FIELD WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING		
14	BOTTOM PLATE TO JST, RIM JST, BAND JST, OR BLOCKING (NOT AT A BRACED WALL LINE)	16d COMMON (3.5"x 0.162") @ 16" OC FACE NAIL; 16d BOX (3.5" x 0.135") @ 12" oc FACE NAIL; OR 3" x 0.131" @ 12" OC FACE NAIL	37	3/4" AND LESS 6d DEFORMED (2" X 0.120") NAIL OR 3/4" AND LESS 8d COMMON (2 1/2" X 0.131") NAIL SPACING: 6" OC EDGES, 12" OC FIELD		
15	BOTTOM PLATE TO JST, RIM JST, BAND JST, OR BLOCKING (AT A BRACED WALL LINE)	(2) 16d COMMON (3.5"x 0.162") @ 16" OC FACE NAIL; (3) 16d BOX (3.5" x 0.135") @ 16" oc FACE NAIL; OR (4) 3" x 0.131" @ 16" OC FACE NAIL	38	8d COMMON (2 1/2" X 0.131") NAIL OR 7/8" TO 1" 8d DEFORMED (2 1/2" X 0.120") NAIL SPACING: 6" OC EDGES, 12" OC FIELD	KS STRUC	8234 Robinson Street Overland Park, KS 66204
16	TOP OR BOTTOM PL TO STUD	TOE NAIL: (4) 8d BOX (2.5" x 0.113"), OR (3) 16d BOX (3.5" x 0.135") OR (4) 8d COMMON (2.5" x 0.131") OR (4) 10d BOX (3" x 0.128") OR (4) 3" x 0.131" NAILS END NAIL: (3) 16d BOX(3.5" x 0.135") OR (2) 16d COMMON (3.5" x 0.162") OR (3) 10d BOX (3" x 0.128") OR (3) 3" x 0.131" NAILS	39	1 1/8" TO 1 1/4" 1 1/8" TO 1 1/4" 8d DEFORMED (2 1/2" X 0.120") NAIL SPACING: 6" OC EDGES, 12" OC FIELD		Stand-sei.com
17	TOP PLATES, LAPS AT CORNERS AND	FACE NAIL: (3) 10d BOX (3" x 0.128") OR (2) 16d COMMON (3.5" x 0.162")	(a) ALL	<u>ISTENER SCHEDULE NOTES:</u> L NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING AND	MO: 201	.5008897 DESCRIPTION DATE
18	1" BRACE TO EA STUD AND PLATE	FACE NAIL: (3) 8d BOX (2.5" x 0.113"), OR (2) 8d COMMON (2.5" x 0.131") OR (2) 10d BOX (3" x 0.128")	SHI CO DIA	IEATHING CONN SHALL HAVE MIN AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 KSI FOR SHANK DIAMETER OF 0.192 IN (20d DMMON NAIL), 90 KSI FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.177 INCH, AND 100 KSI FOR SHANK AMETERS OF 0.142 INCH OR LESS.		
19	1" X 6" SHEATHING TO EACH BEARING	FACE NAIL: (3) 8d BOX (2.5" x 0.113"), OR (2) 8d COMMON (2.5" x 0.131") OR (2) 10d BOX (3" x 0.128")	b NO	DT USED		
20A	1" x 8" SHEATHING TO EACH BEARING	FACE NAIL: (3) 8d BOX (2.5" x 0.113"), OR (3) 8d COMMON (2.5" x 0.131") OR (3) 10d BOX (3" x 0.128")		NILS SHALL BE SPACED @ NOT MORE THAN 6" OC AT ALL SUPPORTS WHERE SPANS ARE 48" OR GREATER		
20B	WIDER THAN 1" X 8" SHEATHING TO EA BRG	FACE NAIL: (4) 8d BOX (2.5" x 0.113"), OR (3) 8d COMMON (2.5" x 0.131") OR (3) 10d BOX (3" x 0.128")	e SP/	ACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2).	STRUG	CTURAL GENERAL NOTES

21133

Author

Checker

NOTED ON PLANS REVIEW LEE'S SUMMIT, MISSOURI

06/01/2021

Project Number

Date

Scale

Drawn By

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(f) FOR WOOD STRUCTURAL PANEL ROOF SHEATHING ATTACHED TO GABLE END ROOF FRAMING AND TO INTERMEDIATE SUPPORTS WITHIN 48" OF ROOF EDGES AND RIDGES. NAILS SHALL BE SPACED AT 6" ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 130 MPH AND SHALL BE SPACED 4" ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS 130 MPH OR GREATER BUT LESS THAN 140 MPH

(g) GYP SHEATHING SHALL CONFORM TO ASTM C1396 AND SHALL BE INSTALLED IN ACCORDANCE TO GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C208.

(h) SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQD BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERP TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQD BY OTHER PROVISIONS OF THE IRC. FLOOR PERIMETER MEMBERS SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.

(i) WHERE RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE (2) TOE NAILS ON ONE SIDE OF THE RAFTER AND TOE NAILS FROM THE CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED.

(j) RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING SPECIFICATION IN ASTM F1667



4





DETAIL NOTES:

- (1) WOOD FLOOR JOISTS, RE: PLAN FOR SIZE AND SPACING
- (2) WF BEAM, RE: PLAN
- (3) STANDARD PIPE COL (SCH 40), RE: TO PLAN FOR
- (4) FASTEN TO CONC FTG WITH (4) 3/16" ø TAP CON SCREWS
- (5) SLAB ON GRADE, RE: PLAN
- 6 SPREAD FOOTING, RE: FOUNDATION PLAN NOTES FOR SIZE AND REINF
- 7) PROVIDE ATTACHMENT FROM STEEL POST TO STEEL BEAM. USE EITHER SELF-DRILLING SCREWS OR H-PLATE WITH EARS BENT AROUND BOT FLANGE OF BEAM
- 8 2x6 WOOD SLEEPER. FASTEN TO STEEL BEAM FROM TOP W/ SELF DRILLING SCREWS OR PAF AT 16" OC
- (9) PROVIDE BLOCKOUT IN SLAB FOR STEEL POST (10) 2x BLOCKING B/W JOISTS

DETAIL NOTES:

- 1 8" FOUNDATION WALL. REINF W/ (3) #4 HORIZ EQ SPACED & #4 VERT @ 18" OC W/ 6" EMBED INTO FOOTING
- (2)16" x 8" THICK FOOTING. REINF W/ (2)#4 CONT
- (3) FLOOR FRAMING, RE: TO PLAN
- (4) WALL FRAMING, RE: TO PLAN & GENERAL NOTES
- 5 TREATED 2x6 SILL PLATE. PROVIDE 1/2"ø ANCHOR RODS @ 3'-0" OC MAX (EMBED 7"
- MIN). PROVIDE ANCHOR RODS EA SIDE OF DOOR OPENINGS, @ ENDS OF WALLS, & @ CORNERS

- (8) WOOD EXTERIOR WALL SHEATHING, RE: STRUCTURAL GENERAL NOTES. CONTRACTOR TO VERIFY BRACED WALL REQUIREMENTS W/ PLANS (10) RIM JOIST: USE 2x FRAMING W/ DIMENSIONAL LUMBER JOISTS, USE 1.5" (11) HOUSEWRAP OVER SHEATHING (12) MINIMUM 4" PERFORATED DRAIN TILE COVERED W/ WASHED GRAVEL OR CRUSHED ROCK. DRAIN TO DAYLIGHT (13) VAPOR BARRIER BELOW SLAB, RE: GENERAL NOTES (14) CONC FOOTING. SIZE & REINFORCEMENT, RE: FOUNDATION PLAN (15) CONC FLOOR SLAB, RE: FOUNDATION PLAN & GENERAL NOTES (16) REINFORCED CONC BASEMENT WALL. SIZE & REINFORCEMENT, RE: (17) 2x6 TREATED SILL PLATE. ANCHOR, RE: GENERAL NOTES (18) WOOD FLOOR JOIST, RE: PLAN. WHERE JOISTS RUN OPPOSITE DIRECTION, PROVIDE BLOCKING PER TYP DTL WD-110 (19) WOOD FLOOR SHEATHING, RE: GENERAL NOTES (20) 1/2" GYPSUM BOARD OR SIMILAR, RE: BRACED WALL PLANS FOR ADDITIONAL FASTENER REQUIREMENT LOCATIONS (23) INSULATION, RE: ENERGY REQUIREMENT NOTES (25) CEILING JOISTS, RE: PLAN (2x6 MIN)
- 06/02/202 SEALED FOR STRUCTURAL REVIEW Signature Builders KC, LLC 2751 NE Douglas St. - Suite R Lee's Summit, Missouri 64064 Phone: (816) 215-0891 Website: www.sb-kc.net U U eD Ū. S R 2 6408 din RD ANSON FIMIT, MO Jar UMMIT, R SE SU 2330 LEES U 8234 Robinson Street 8234 Robinson Street Overland Park, KS 66204 913-214-2169 stand-sei com stand-sei.com NEEDIN CERTIFICATE OF AUTHORIZATION: KS: E-1897 MO: 2015008897 No. DESCRIPTION DATE STRUCTURAL TYPICAL DETAILS 21133 Project Number 06/01/2021 Date Drawn By Author Checked B Checker Development Services LEE'S SUMMIT, MISSOORIC Scale



- (11) STAGGER JOINTS 24" OC OR USE SPLICE



BEAM PARALLEL TO WALL-DOWN SET

BEAM PARALLEL TO WALL-

NAIL CONDITION

INSTALLATION **DIMENSIONS**

(2)

式 - 0" SPS ₀

.....

(3)

- ⊫BTWN ROWS •

BUILT-UP ENGR LUMBER BEAM 3/4" = 1'-0"

FASTENER OPTIONS

2-PLY

4 @ 12"

2 @ 24"

2 @ 24"

OC.

OC

3-PLY

EASIDE

EA SIDE

3 @ 12" OC

4 @ 12" OC NOT

2 @ 24" OC 2 @ 16" OC

2 @ 24" OC EA SIDE 2 @ 16" OC EA SIDE

4-PLY

ALLOWED

ALLOWED

NOT

(2)

TOP LOADED BEAM

SIDE LOADED BEAM 📥 🕨

SECTION AA

GREATER OC

FASTENER BM DEPTH

10d (0.128"x3") 14" OR

THRU BOLTS GREATER

STRUCTURAL 7.25" OR

NAILS

NAILS

1/2" DIA

SCREW

10d (0.128"x3") 7.25" TO 14" 3 @ 12"

7.25" OR

GREATER

DETAIL NOTES:

- $(\,{\sf 1}\,)$ diameter of handrail from 1 1/4" TO 2"
- (2) RETURN HANDRAILS TO POST OR WALI
- (3) PRESSURE TREATED PLATE
- (4) 2x12 STRINGERS @ 16" OC MAX
- (5) MIN 1/2" GYP BOARD UNDER STAIRS
- (6) IF RISERS ARE SOLID, NOSING IS REQUIRED: 3/4" TO 1 1/4"
- (7) AT LANDING PROVIDE 36" MIN OF CLEARANCE

NOTES:

A. MIN STAIR WIDTH IS 36" B. GUARD RAILS ARE REQD ALONG STAIRS WITH 3 OR MORE RISERS AND FLOOR OPENINGS WHERE ELEV DIFFERENCE IS GREATER THAN 30" C. ALL STAIR CONSTRUCTION SHALL SATISFY CODE REQUIREMENTS





UP SET

DETAIL NOTES:

- 1) MULTI-PLY LVL, LSL, OR PSL GIRDER MEMBER. FOR 2-PLY MEMBERS, FASTENERS MAY BE INSTALLED FROM ONE SIDE. FOR 3-PLY MEMBERS, FASTENERS SHOWN SHALL BE INSTALLED ON EA SIDE (2 ROWS @ 24" = 4 TOTAL SCREWS, TWO EA SIDE). REFER TO TABLE FOR FASTENER REQUIREMENTS
- (2) FLOOR JOISTS, RE: PLAN. TOP LOADED CONDITION
- 3) FLOOR JOISTS, RE: PLAN. SIDE LOADED CONDITION. PROVIDE FACE MOUNTED OR TOP FLANGE MOUNTED HANGERS ATTACHED TO GIRDER PER MFCR REQUIREMENTS
- 4) AT HEAVY LOADED BEAM HANGER LOCATIONS, PROVIDE (4) STRUCTURAL SCREWS EA SIDE OF HANGER. SCREWS SHALL PENETRATE ALL PLYS (3.25" MIN FOR 2 PLY, 5" MIN FOR 3 PLY). THIS SHALL BE TYP UNO
- (5) WHEN BEAM IS DOWNSET PROVIDE 2x FULL HEIGHT [´] BLOCKING BTWN FLOOR JOISTS

NOTES:

A. ALL GIRDER MEMBERS SHALL BE FULL LENGTH BTWN SUPPORTS UNO

- B. SCREWS INSTALLED IN OPPOSITE FACE SHALL BE STAGGERED FROM NEAR FACE SCREWS BY 2" (+/- 1")
- C. EXCESSIVELY WARPED OR CURVED LVL SHOULD NEVER BE FORCED INTO ALIGNMENT BY USE OF CLAMPS, SCREWS OR BOLTS AS SPLITTING MAY OCCUR
- D. IF COUNTERSINKING SCREWS OR BOLTS IS REQUIRED, USE A SPADE BIT TO CREATE THE COUNTERSINK PRIOR TO INSTALLING THE FASTENER
- E. BOLTS SHALL MEET OR EXCEED ASTM A307
- F. STRUCTURAL SCREWS MAY BE ONE OF THE FOLLOWING PRODUCTS: 1/4"ø SIMPSON STRONG TIE SDS, WS SCREWS BY USP, OR TRUSSLOK SCREWS BY FASTENMASTER





(1)

57003 - BOLTED-SINGLE PLATE SHEAR SPLICE

- (4) STEEL COLUM, RE: PLAN
- 5 5/16" x 8" x 8" CAP PLATE. CONNECT BEAM TO PL W/ (4) 1/2" DIA BOLTS, OR 1/8" WELD ALL AROUND

DETAIL NOTES

- REQD 5) 1'-0" SQ CONC PIER. HOLD TOP DOWN
- ON UNDISTURBED SOIL, DEPTH AS
- (3) FILL MATERIAL 4'-0" SQ x 16" CONC FTG. REINF W/ (8) # 4 EA WAY BOT. BOT OF FTG TO BEAR
- 2 UNDISTURBED NATIVE SOIL
- (1) SLAB ON GRADE. REINF W/ #4 BOT BARS EA WAY

DETAIL RZ136

(7) NATIVE UNDISTURBED SOIL

(8) 8" x 8" THICKENED SLAB

DETAIL NOTES:

- FLOOR FRAMING

- (3) GRADE

- (4) #4 DWLS @ 12" OC x 3"-0" LONG. EMBED IN WALL 12". FIELD BEND INTO FLOOR SLAB. ALTERNATIVELY, DRILL & EPOXY DWLS 4" MIN INTO LEDGE

(5) STRUCTURAL GARAGE SLAB. REINF PER

(6) COMPACTED FILL OR GRAVEL @ OVERDIG

(9) #4 DWLS @ 12" OC x 2'-0" LONG. DRILL & EPOXY 5" MIN INTO WALL

PAUL WESLEY

SPEARS

06/02/2022

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FOUNDATION LOAD BEARING WALL SHEAR WALL HEADER BEAM

/ SPAN DIRECTION JOIST / TRUSS EXTENTS OF JOIST

NOTE: ALL WALLS OVER 10FT IN HEIGHT SHALL BE 2X4 SPF #2 OR BETTER @ 16" OC AND SHALL BE CONTINUOUS FROM FLOOR TO FLOOR OR FLOOR TO ROOF mmm

SHEET NOTES

A. REFER TO SHEET S001 FOR STRUCTURAL GENERAL NOTES.

B. REFER TO S010-S012 FOR TYPICAL STRUCTURAL DETAILS.

C. ALL WOOD HEADERS IN PERIMETER WALLS AND INTERIOR LOAD BEARING WALLS NOT SPECIFICALLY CALLED OUT SHALL BE SELECTED FROM THE HEADER SCHEDULE ON TYPICAL DETAIL SHEETS.

D. ALL WOOD BEAMS SHALL BEAR ON A MINIMUM OF (3) 2x4 STUDS OR SHALL ATTACH TO INTERSECTING WOOD BEAMS WITH A SIMPSON HUGS410 OR BETTER UNO.

E. ALL MULTI-PLY ENGINEERING LUMBER BEAMS ARE DESIGNATED BY NUMBER OF PLYS AND DEPTH [EX: (3) 14" LVL]. THE PLYS SHALL BE 1.75" WIDTH UNLESS NOTED OTHERWISE AND STRENGTH SHALL BE PER THE GENERAL NOTES. BEAMS SHALL BE FASTENED TOGETHER PER THE TYPICAL DETAILS.

F. REFER TO ARCHITECTURAL SHEETS FOR ALL DIMENSIONS.

G. ALL STEEL BEAMS IN 1ST FLOOR FRAMING SHALL BE DOWNSET UNLESS NOTED OTHERWISE. ALL OTHER BEAMS IN 1ST FLOOR FRAMING SHALL BE UPSET, UNLESS NOTED OTHERWISE.

H. ALL WALLS SHALL BE 2x4 @ 16" OC, UNLESS NOTED OTHERWISE. ALL EXTERIOR WALLS ARE LOAD BEARING. USE 2X6 @ 16" OC FOR LOWER LEVEL WALKOUT WALLS I. REFER TO SHEET S104 FOR BRACED WALL INFORMATION.

J. BEAM HANGERS ARE DENOTED ON PLANS AS "HXX". REFER TO SCHEDULE ON S101 FOR REQUIREMENTS. WHERE NOT CALLED OUT, CONTACT ENGINEER OR USED HEAVIEST HANGER FOR NUMBER OF PLYS IN BEAM BEING SUPPORTED.

K. SPECIFIC BEAMS CALLED OUT ON PLANS SHALL BE LOCATED UNDER THE LOAD BEARING ELEMENTS ABOVE.

L. PROVIDE DOUBLE FLOOR JOIST UNDER ALL WALLS PARALLEL W/ JOIST.

M. SPREAD FOOTINGS ARE DENOTED AS "FX.X". REFER TO SPREAD FOOTING SCHEDULE ON THIS SHEET FOR FOOTING SIZES AND REINFORCING.

N. ANCHOR RODS SHALL BE PLACED IN TO THE TOP OF THE FOUNDATION WALLS PER THE GENERAL NOTES.

FDN PLAN NOTES:

(1) 2x10 FLOOR JOISTS @ 16" OC

(2) FLOOR JOIST OPTIONS: A) 2x10 @ 12" OC OR B) 2x10 @ 16" W/ EVERY OTHER JOIST DOUBLED. FOR IMPROVED DEFLECTION CONTROL, USE (2) 2x10 @ 19.2" OC

(3) 2x10 TREATED FLOOR JOISTS @ 16" OC

O. PROVIDE PERIMETER FOUNDATION DRAINS.

- (4) 4" THICK BASEMENT SLAB, RE: GENERAL NOTES FOR REINF AND JOINTING REQUIREMENTS
- (5) GARAGE SLAB, RE: TYP DETAIL RZ136 FOR GARAGE SLAB ON FILL REQUIREMENTS
- (6) GARAGE PIER, RE: TYPICAL DETAILS
- (7) 8" CONCRETE BASEMENT WALL ON 16" WIDE x 8" DEEP CONT FTG. REINF WALL W/ #4 VERTS @ 12" OC MAX ON THE INSIDE FACE W/ (5) #4 HORIZ EQUALLY SPACED, UNO. EMBED VERTS 6" MIN INTO FTG. REINF FTG W/ (2) #4 CONT
- (8) STEP IN FOOTING. BOTTOM OF FOOTINGS TO BE 3'-0" MIN BELOW GRADE FOR FROST DEPTH
- (9) RECESS STEM WALL AT GARAGE DOOR
- (10) 18" DIAMETER CONCRETE PIER. REINF W/ (4) #4 VERTS AND #3 TIES @ 12" OC. BOTTOM OF PIER TO BE 3'-0" MIN BELOW GRADE. PROVIDE SIMPSON ABU66Z POST BASE ANCHORED W/ 5/8" DIA TITEN HD SCREW ANCHOR x 4" MIN EMBED
- (11) BLOCK OUT FOR BEAM POCKET IN CONCRETE WALL. PROVIDE 4" MIN OF BEARING
- (12) STUD WALL ON TO OF STEM WALL FOR WALKOUT BASEMENT
- (13) 8" CONCRETE STEM WALL ON 16" WIDE x 8" DEEP CONT FTG. REINF WALL W/ #4 VERTS @ 18" OC AND (3) #4 HORIZ EQ SPACED. EMBED VERTS 6" MIN INTO FTG. REINF FTG W/ (2) # 4 CONT
- (14) 3 1/2" DIA STD PIPE COL (SCH 40), RE: TYPICAL DETAILS FOR TOP AND BOT CONDITIONS
- (15) DEAD MEN, RE: TYPICAL DETAIL RZ138 AND RZ140
- (16) PROVIDE THICKENED SLAB BELOW LOAD BRG WALL. 16" WIDE x 10" THICK MIN. REINF W/ (2) #4 CONT BOT BARS
- (17) 2x10 TREATED LEDGER BOARD. PROVIDE DECAY RESISTANT SHIMS AND FASTEN TO RIM JOIST W/ (2) FASTENMASTER LEDGERLOK SCREWS @ 16" OC
- (18) 6" THICK PORCH SLAB. REINF W/ #4 @ 12" OC EA WAY BOT BARS. PROVIDE WATERSTOP AT INTERSECTION WITH WALL CONCRETE. PROVIDE #4 DOWELS (2'-0" x 2'-0") AT PERIMETER AT 18" OC
- (19) PROVIDE BOLTED CONNECTION BETWEEN STEEL BEAMS. (2) 5/8" DIA. BOLTS MIN AND 5/16" CONN PLATE. ALT, THE CONNECTION CAN BE WELDED W/ A 3/16" WELD ALL AROUND
- (20) PROVIDE 1 1/2" LEDGE FOR PORCH SLAB SUPPORT
- (21) 6" THICK PATIO SLAB. REINF W/ #4 @ 12" OC EA WAY BOT BARS. PROVIDE 12"x12" THICKENED SLAB AT EDGE. REINF W/ (2) #4 CONT. PROVIDE #4 DOWELS (2'-0" LONG W/ STD HOOK) AT PERIMETER AT 18" OC
- (22) WHERE TILE IS TO BE INSTALLED, CONSIDER USING DECOUPLING MEMBRANE TO PREVENT CRACKING
- (23) AT CONTRACTOR OPTION, BEAM SPLICE MAY BE INSTALLED AT THIS LOCATION. EITHER PROVIDE (2) BOLT SHEAR SPLICE CONN (3/4" DIA BOLTS, 5/16" PLATE), OR DOUBLE COLUMNS AS SHOWN IF BEAM IS SPLICED. ALT, THE CONNECTION CAN BE WELDED W/ A 3/16" WELD ALL AROUND
- (24) PROVIDE BEAM TIE DOWN PER 2/S100

SCHEDULE - SPREAD FOOTING (BASED ON 1,500 PSF ALLOWABLE BEARING PRESSURE)								
ARK	LENGTH	WIDTH	THICKNESS	REINFORCEMENT	MINIMUM RATED COLUMN CAPACITY [ASD]	COLUMN SIZE (STD / SCHEDULE 40 PIPE) 9'-0" LONG MAX	MIN COLUMN INSIDE DIAMETER [ID]	MIN COLUMN OUTSIDE DIAMETER [OD]
2.5	2' - 6"	2' - 6"	1' - 0"	(4) #4 EA WAY, BOT	9.4 Kips	3"	3"	3 1/2"
3.0	3' - 0"	3' - 0"	1' - 0"		13.5 Kips	3"	3"	3 1/2"
3.5	3' - 6"	3' - 6"	1' - 2"	(7) #4 EA WAY, BOT	18.4 Kips	3"	3"	3 1/2"
4.0	4' - 0"	4' - 0"	1' - 4"	(8) #4 EA WAY BOT	24.0 Kips	3"	3"	3 1/2"
4.5	4' - 6"	4' - 6"	1' - 4"	(9) #4 EA WAY, BOT	30.4 Kips	3 1/2"	3 1/2"	4"
5.0	5' - 0"	5' - 0"	1' - 6"	(10) #4 FA WAY, BOT	37.5 Kips	3 1/2"	3 1/2"	4"

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AS NOTED ON PLANS REVIEW Development Services, LEE'S SUMMIT, MISSOURI

BONUS ROOM FRAMING PLAN NOTES:

(1) ROOF RAFTER EXTENDS UP TO RIDGE BEAM, BUT ALSO FORMS PART OF VAULTED CEILING

(2) 2x6 CEILING JOISTS @ 16" OC. NOTE: AREAS ABOVE CEILING ARE NOT DESIGNED FOR STORAGE, EXCEPT IN THE GARAGE PROVIDE (6) 10d NAILS @ INTERFACE W/ ROOF RAFTERS

(3) LOAD BEARING STUD WALL

FRAMING LEGEND \leq \equiv \geq FOUNDATION LOAD BEARING WALL ZIIIIZ SHEAR WALL 711112 ____ HEADER BEAM _____ — SPAN DIRECTION JOIST / TRUSS EXTENTS OF JOIST

TYPE

SHEET NOTES

A. REFER TO SHEET S001 FOR STRUCTURAL GENERAL NOTES.

B. REFER TO S010-S012 FOR TYPICAL STRUCTURAL DETAILS.

C. ALL WOOD HEADERS IN PERIMETER WALLS AND INTERIOR LOAD BEARING WALLS NOT SPECIFICALLY CALLED OUT SHALL BE SELECTED FROM THE HEADER SCHEDULE ON TYPICAL DETAIL SHEETS.

D. ALL WOOD BEAMS SHALL BEAR ON A MINIMUM OF (3) 2x4 STUDS OR SHALL ATTACH TO INTERSECTING WOOD BEAMS WITH A SIMPSON HUGS410 OR BETTER UNO.

E. ALL MULTI-PLY ENGINEERING LUMBER BEAMS ARE DESIGNATED BY NUMBER OF PLYS AND DEPTH [EX: (3) 14" LVL]. THE PLYS SHALL BE 1.75" WIDTH UNLESS NOTED OTHERWISE AND STRENGTH SHALL BE PER THE GENERAL NOTES. BEAMS SHALL BE FASTENED TOGETHER PER THE TYPICAL DETAILS.

F. REFER TO ARCHITECTURAL SHEETS FOR ALL DIMENSIONS.

G. ALL BEAMS IN CEILING FRAMING SHALL BE UPSET, UNLESS NOTED AS DOWNSET OR HDR. IF HEADER SIZE IS NOT GIVEN PICK THE SIZE FROM THE CHART ON THE TYP DETAIL SHEETS.

H. ALL WALLS SHALL BE 2x4 @ 16" OC, UNLESS NOTED OTHERWISE. ALL EXTERIOR WALLS ARE LOAD BEARING.

I. REFER TO SHEET S104 FOR BRACED WALL INFORMATION.

J. BEAM HANGERS ARE DENOTED ON PLANS AS "HXX". REFER TO SCHEDULE ON S101 FOR REQUIREMENTS. WHERE NOT CALLED OUT, CONTACT ENGINEER OR USED HEAVIEST HANGER FOR NUMBER OF PLYS IN BEAM BEING SUPPORTED.

- K. SPECIFIC BEAMS CALLED OUT ON PLANS SHALL BE LOCATED UNDER THE LOAD BEARING ELEMENTS ABOVE.
- L. PROVIDE DOUBLE FLOOR JOIST UNDER ALL WALLS PARALLEL W/ JOIST.

CEILING FRAMING PLAN NOTES:

- 1 2x6 CEILING JOISTS @ 16" OC. NOTE: AREAS ABOVE CEILING ARE NOT DESIGNED FOR STORAGE, EXCEPT IN THE GARAGE
- 2 2x8 CEILING JOISTS @ 16" OC. NOTE: AREAS ABOVE CEILING ARE NOT DESIGNED FOR STORAGE, EXCEPT IN THE GARAGE
- 3 2x10 @ 16" OC
- (4) (5) STUDS MIN FOR BRG
- (5) 2x10 TREATED FLOOR JOISTS @ 16" OC
- (6) 6x6 TREATED WOOD POST (MIN) NOTCH TOP FOR BEAM SEAT & PROVIDE (2) 1/2" THRU BOLTS
- (7) 6x6 TREATED WOOD POST (MIN) NOTCH TOP FOR BEAM SEAT & PROVIDE (2) 1/2" THRU BOLTS

 $\overbrace{}$ NOTE: ALL WALLS OVER 10FT IN HEIGHT SHALL BE 2X4 SPF #2 OR BETTER @ 16" OC AND SHALL BE CONTINUOUS FROM FLOOR TO FLOOR OR FLOOR TO ROOF

(UNINTERUPTED) uuuu

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NOTED ON PLANS REVIEW Development Services LEE'S SUMMIT, MISSOURI

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ROOF RAFTERS PER SCHEDULE ON THIS SHEET. RAFTERS IN VAULTED AREAS SHALL BE 2X10 MIN. OR FURRED DOWN AS REQUIRED TO ALLOW FOR INSULATION.

SHEET NOTES

A. REFER TO SHEET S001 FOR STRUCTURAL GENERAL NOTES.

B. REFER TO S010-S012 FOR TYPICAL STRUCTURAL DETAILS.

C. ALL WOOD HEADERS IN PERIMETER WALLS AND INTERIOR LOAD BEARING WALLS NOT SPECIFICALLY CALLED OUT SHALL BE SELECTED FROM THE HEADER SCHEDULE ON TYPICAL DETAIL SHEETS.

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K. SPECIFIC BEAMS CALLED OUT ON PLANS SHALL BE LOCATED UNDER THE LOAD BEARING ELEMENTS ABOVE.

L. PROVIDE DOUBLE FLOOR JOIST UNDER ALL WALLS PARALLEL W/ JOIST.

ROOF FRAMING PLAN NOTES:

- (1) 2X6 ROOF RAFTERS @ 16" OC
- (2) 2X8 ROOF RAFFTERS @ 16" OC
- (3) 2X10 ROOF RAFFTERS @ 16" OC
- (4) VALLEY RAFTER STOPS AT THIS LOCATION
- (5) ROOF PURLIN, RE: TYPICAL DETAIL RZ404
- (6) RIDGE BEAM IS GENERALLY NON STRUCTURAL CEILING JOISTS TO LAP ROOF RAFTERS AND CREATE COLLAR TIE CONDITION AT THE CEILING ELEVATION
- 7 2x4 OUTLOOKERS @ 2'-0" OC. BACK SPAN ON OUTLOOKERS = 1.5 x OVERHANG DISTANCE (MIN). IF PROVIDING GABLE TRUSS, HOLD TOP CHORD DOWN FOR OUTLOOKERS

MEMBER	SPACING	SLOPE	SPANS [H(S)] **
		4	12'-0" (13'-5")
	16"	6	12'-0" (14'-4")
2x6		8	11'-6" (14'-10")
		10	11'-0" (15'-5")
			10'-6" (16'-1")
		4	10'-6" (11'-8")
		6	10'-0" (12'-1")
2x6	24"	8	10'-0" (13'-0")
		10	9'-6" (13'-6")
		12	9'-0" (14'-0")
		4	16'-0" (17'-8")
		6	15'-6" (18'-3")
2x8	16"	8	15'-0" (19'-2")
		10	14'-6" (20'-2")
		12	14'-0" (21'-2")
		4	14'-0" (15'-7")
2x8		6	13'-6" (16'-1")
	24"	8	13'-0" (16'-9")
		10	12'-6" (17'-0")
		12	12'-0" (18'-5")
	16"	4	20'-6" (22'-6")
		6	20'-0" (23'-5")
2x10		8	19'-0" (24'-1")
		10	18'-6" (25'-6")
		12	18'-0" (27'-1")
		4	17'-6" (19'-4")
		6	17'-0" (19'-8")
2x10	24"	8	16'-6" (21'-1")
		10	16'-0" (22'-3")
		12	15'-6" (23'-6")
** H=HOI	RIZ SPAN	S=SLOPI	ED SPAN

NOTES:

1. MINIMUM GRADES OF WOOD SHALL BE PER THE GENERAL NOTES.

2. SPANS ARE BASED ON LIGHT ROOF COVERING (15 PSF DL + 20 PSF LL), AND DEFLECTION LIMITS OF L/240 FOR LIVE LOAD & L/180 FOR

TOTAL LOAD

ROOF BRACING POST		
POST	MAX LENGTH	
(2) 2x4	8'-0"	
(2) 2x6	12'-0"	

MEMBERS SHALL BE CONNECTED TOGETHER TO FORM A "T" SHAPE W/ 3" LONG WOOD SCREWS @ 16" OC, OR 10d NAILS @ 6" OC

ROOF FRAMING PLAN

Project Number	21133
Date	06/01/2021
Drawn By	Author
Checked By	PWS
S	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW
Scale	Development Services LEE'S SUMMIT, MISSOURI

END CONDITIONS (CONTINUOUSLY SHEATHED)

EC1: PROVIDE RETURN PANEL AT THE END OF THE WALL. MIN RETURN PANEL LENGTH = 24".

EC2: PROVIDE SIMPSON DTT2Z HOLDDOWN AT CORNER. FASTEN TO STUDS W/ (8) SIMPSON SDS SCREWS AND ANCHOR TO CONCRETE W/ 1/2" DIA SIMPSON TITEN HD SCREW ANCHOR x 4" MIN EMBED (6" OVERALL LENGTH). WHERE HOLDDOWN IS REQUIRED BETWEEN FLOORS, PROVIDE DTT2Z ABOVE AND BELOW FLOOR AND FASTEN TO WALL STUDS. CONNECT TOGETHER WITH 1/2" DIAMETER

EC3: 48" WIDE BRACED WALL PANEL AT THE END OF THE WALL. NO RETURN PANEL IS REQUIRED.

EC5: SIMILAR TO EC2, EXCEPT HOLDDOWN DOES NOT OCCUR AT CORNER, BUT MAY BE UPTO 10'-0"

Signature Builders KC, LLC 2751 NE Douglas St Suite R Lee's Summit, Missouri 64064 Phone: (816) 215-0891 Website: www.sb-kc.net	KEVIEW KEVIEW KEVIEW KEVIEW KEVIEW Signature Builders KC, LLC 2751 NE Douglas St Suite R Lee's Summit, Missouri 64064 Phone: (816) 215-0891 Website: WWebsite: WWW.sb-kc.net Song KANSON KD GERGUNAL FRAMING CENTROL STREE	PAUL WESLEY SPEARS NUMBER PE-2009003624 SEALED FOR STRUCTURAL	
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