

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

ELEVATIONS:

GARAGE DOORS SHALL MEET DASMA FOR ULTIMATE DESIGN WIND SPEED OF 115 MPH REQUIREMENTS. WALL FRAMING SHALL BE DOUGLAS FIR LARCH #2 UNLESS OTHERWISE NOTED.

IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN TEN FEET IN LENGTH SHALL BE SPACED NOT MORE THAN IS SPECIFIED BY IRC TABLE R602.3(5) FOR

CORRESPONDING STUD SIZE. WATER-RESISTIVE EXTERIOR WALL BARRIER IN WALL SECTION SHALL COMPLY

WITH IRC R703.2. WHEN APPLICABLE, CONTINUOUS STUDS BETWEEN FLOOR AND ROOF/CEILING DIAPHRAGM SHALL COMPLY WITH IRC R602.3.

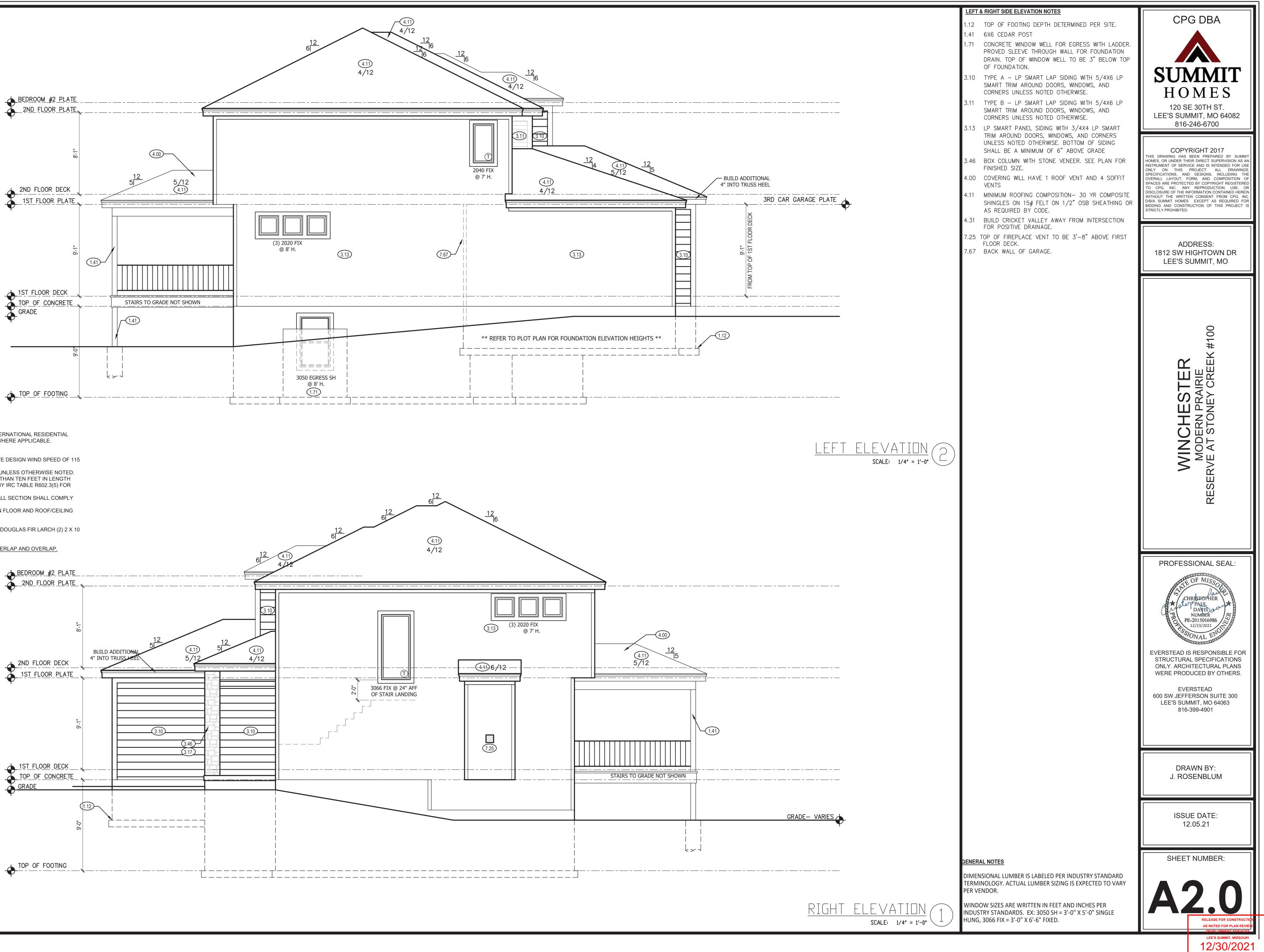
ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

SHIPLAP SIDING MUST BE FASTENED AT BOTH UNDERLAP AND OVERLAP.



R

	FRONT & REAR ELEVATION NOTES	CPG DBA
	1.12 TOP OF FOOTING DEPTH DETERMINED PER SITE.1.41 6X6 CEDAR POST	
	1.71 CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVED SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP	
	 2.62 DOUBLED 1X8" LP SMART TRIM. 1 1/2" ARCH ON GARAGE DOOR TRIM UNLESS NOTED OTHERWISE ON 	SUMMIT HOMES
	ELEVATION. 3.10 TYPE A - LP SMART LAP SIDING WITH 5/4X6 LP SMART TRIM AROUND DOORS, WINDOWS, AND	120 SE 30TH ST. LEE'S SUMMIT, MO 64082
	CORNERS UNLESS NOTED OTHERWISE. 3.11 TYPE B – LP SMART LAP SIDING WITH 5/4X6 LP SMART TRIM AROUND DOORS, WINDOWS, AND CORNERS LINEESS NOTED OTHERWISE	816-246-6700
	CORNERS UNLESS NOTED OTHERWISE. 3.13 LP SMART PANEL SIDING WITH 3/4X4 LP SMART TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. BOTTOM OF SIDING	COPYRIGHT 2017 THIS DRAWING HAS BEEN PREPARED BY SUMMIT HOMES, OR UNDER THEIR DIRECT SUPERVISION AS AN INSTRUMENT OF SERVICE AND IS INTENDED FOR USE ONLY ON THIS PROJECT. ALL DRAWINGS, SPECIFICATIONS, AND DESIGNS, INCLUDING THE
ATE/	SHALL BE A MINIMUM OF 6" ABOVE GRADE. 3.17 MANUFACTURED STONE VENEER.	OVERALL LAYOUT, FORM, AND COMPOSITION OF SPACES ARE PROTECTED BY COPYRIGHT REGISTERED TO CPG, INC. ANY REPRODUCTION, USE, OR DISCLOSURE OF THE INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN CONSENT FROM CPG, INC. D/BIA SUMMIT HOMES EXCEPT AS REQUIRED FOR
	3.18 CAST STONE CAP3.46 BOX COLUMN WITH STONE VENEER. SEE PLAN FOR FINISHED SIZE.	BIDDING AND CONSTRUCTION OF THIS PROJECT IS STRICTLY PROHIBITED.
= 	4.00 COVERING WILL HAVE 1 ROOF VENT AND 4 SOFFIT VENTS	
	4.11 MINIMUM ROOFING COMPOSITION- 30 YR COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR	ADDRESS: 1812 SW HIGHTOWN DR
	AS REQUIRED BY CODE. 4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.	LEE'S SUMMIT, MO
		e R
$\mathbf{\Psi}$		K #100
	<u>SHEET INDEX</u> A1. FRONT AND REAR ELEVATION	
	A2. LEFT AND RIGHT ELEVATION	
	A3. FOUNDATION FLOOR PLAN	
$\mathbf{\Psi}$	A4. MAIN LEVEL PLAN A5. UPPER LEVEL PLAN	STO A
	A6. ROOF PLAN	MIN(MODI RVE AT
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI	<u>GENERAL NOTES</u> DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD	E S E
12/30/2021	TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.	
	WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.	
	HONG, S000 FIX = S -0 X 0 -0 FIXED.	
		PROFESSIONAL SEAL:
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		CHRISTOPHER CHRISTOPHER DAVIS DAVIS PE-2015016986 FF-2015016986 EVERSTEAD IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS
		CHRISTOPHER DAVIS
	FINISHED MAIN FLOOR	CHRISTOPHER DAVIS
	FINISHED	EVERSTEAD IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS WERE PRODUCED BY OTHERS.
	FINISHED MAIN FLOOR 1434 UPPER LEVEL 1563 FINISHED STAIRS TO LOWER LEVEL 3032 IOTAL 3032	EVERSTEAD IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS WERE PRODUCED BY OTHERS.
	FINISHED MAIN FLOOR 1434 UPPER LEVEL 1563 FINISHED STAIRS TO LOWER LEVEL 35	DERAWN BY:
	FINISHED MAIN FLOOR MAIN FLOOR 1434 UPPER LEVEL 1563 FINISHED STAIRS TO LOWER LEVEL JOTAL JO32 UNFINISHED	Image: Construction of the construc
	FINISHED MAIN FLOOR 1434 UPPER LEVEL 1563 FINISHED STAIRS TO LOWER LEVEL 3032 UNFINISHED LOWER LEVEL - UNFINISHED 1300 COVERED DECK	CHRISTEAD IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS WERE PRODUCED BY OTHERS.
	FINISHED MAIN FLOOR 1434 UPPER LEVEL 1563 FINISHED STAIRS TO LOWER LEVEL 35 TOTAL 3032 UNFINISHED 1300 COVERED DECK 144 GARAGE 658	Image: Contract of the contract
	FINISHED I MAIN FLOOR 1434 UPPER LEVEL 1563 FINISHED STAIRS TO LOWER LEVEL 35 TOTAL 3032 UNFINISHED 1300 COVERED DECK 144 GARAGE 658	CHRISTEAD IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS WERE PRODUCED BY OTHERS.
	FINISHED MAIN FLOOR 1434 UPPER LEVEL 1563 FINISHED STAIRS TO LOWER LEVEL 1000 UNFINISHED 1300 COVERED DECK 144 GARAGE ENGINEER TRUSS I-JOIST EVERSTEAD BFS	URAWN BY: J. ROSENBLUM J. ROSENBLUM BESTRICTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS WERE PRODUCED BY OTHERS. EVERSTEAD 600 SW JEFFERSON SUITE 300 LEE'S SUMMIT, MO 64063 816-399-4901
	FINISHED MAIN FLOOR 1434 UPPER LEVEL 1563 FINISHED STAIRS TO LOWER LEVEL 1000 UNFINISHED 1300 COVERED DECK 144 GARAGE ENGINEER TRUSS I-JOIST EVERSTEAD BFS N/A	ISSUE DATE: 12.05.21



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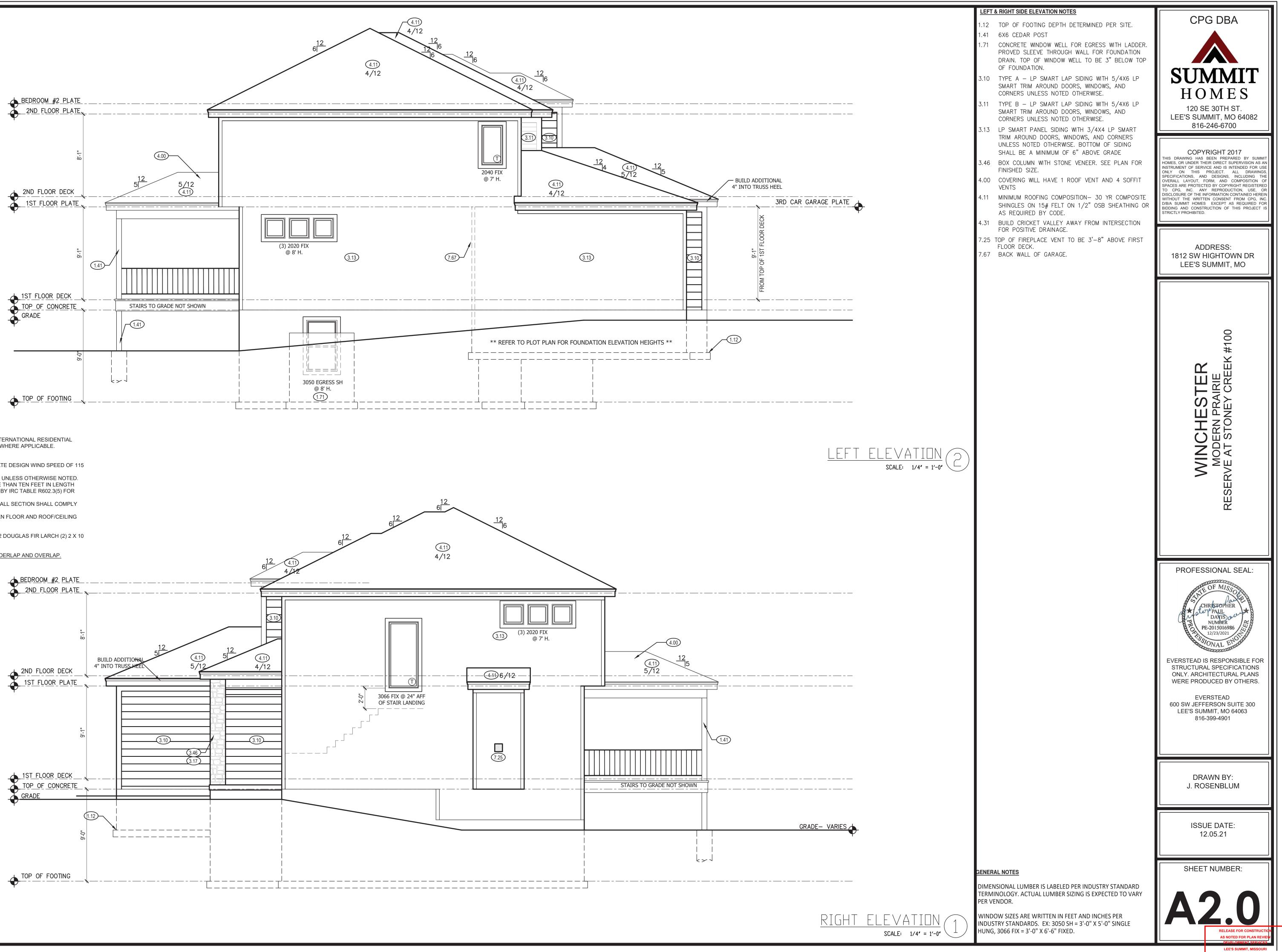
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WALL FRAMING SHALL BE DOUGLAS FIR LARCH #2 UNLESS OTHERWISE NOTED. IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN TEN FEET IN LENGTH SHALL BE SPACED NOT MORE THAN IS SPECIFIED BY IRC TABLE R602.3(5) FOR CORRESPONDING STUD SIZE.

WATER-RESISTIVE EXTERIOR WALL BARRIER IN WALL SECTION SHALL COMPLY WITH IRC R703.2. WHEN APPLICABLE, CONTINUOUS STUDS BETWEEN FLOOR AND ROOF/CEILING DIAPHRAGM SHALL COMPLY WITH IRC R602.3.

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

SHIPLAP SIDING MUST BE FASTENED AT BOTH UNDERLAP AND OVERLAP.



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FOUNDATION NOTES:

ALL FOOTINGS MEET OR EXCEED MINIMUM FROST DEPTH OF 36". SOIL BEARING CAPACITY SHALL BE 1500 PSF. COMPRESSIVE STRENGTH OF CONCRETE F'C COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2. REQUIRED AIR ENTRAINMENT SHALL BE 5-7%. ALL FOUNDATION WALLS ENCLOSING BELOW GRADE SPACE SHALL BE DAMPPROOFED. DAMPPRROFING SHALL EXTEND FROM THE EDGE OF THE FOOTING TO THE FINISHED GRADE (R-406.1). METHOD OF DAMPPROOFING OR WATERPROOFING SHALL BE A MINIMUM 6-MIL THICK MOISTURE BARRIER OVER POROUS GRAVEL BASE UNDER BASEMENT FLOOR SLAB PER R405.2.2. LAP JOINTS SHALL BE A MINIMUM 6".

FOUNDATION WALLS SHALL BE DAMPPROOFED PER IRC SECTION R406. FOUNDATION DRAINAGE WILL BE IN ACCORDANCE WITH WITH IRC SECTION R405. BASEMENT EGRESS OPENINGS SHALL BE IN ACCORDANCE WITH IRC SECTION R310.1

ALL INTERIOR FOOTINGS OF LOAD BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB. ALL ANCHOR BOLTS SHALL NOT BE SPACED MORE THAN 3' O.C. AND BE EMBEDDED INTO THE CONCRETE A MINIMUM OF 7".

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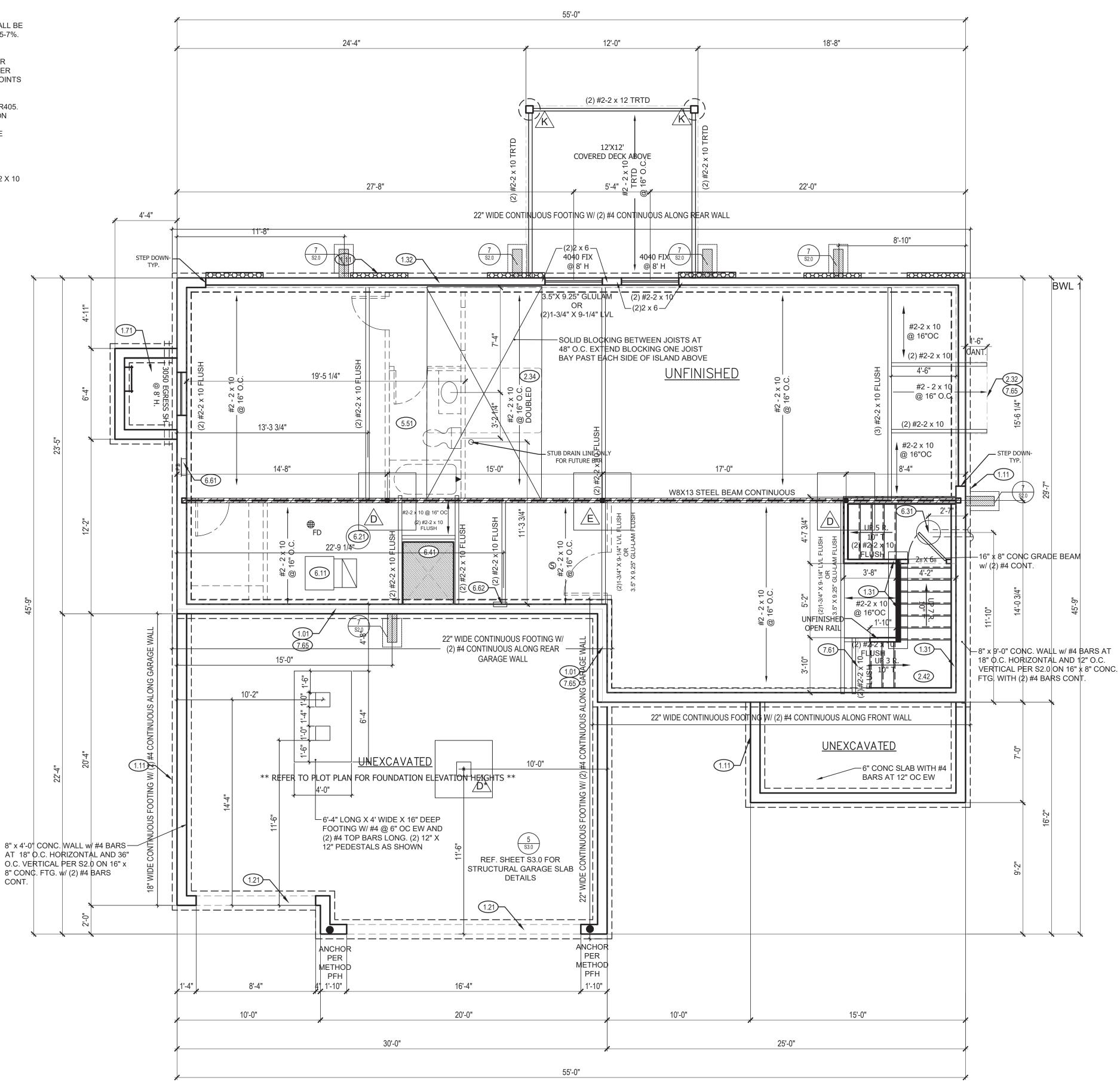
BACKFILL SHALL NOT BE PLACED AGAINST THE WALL UNTIL THE WALL HAS SUFFICIENT STRENGTH OR HAS BEEN SUFFICIENTLY BRACED TO PREVENT DAMAGE BY BACKFILL.

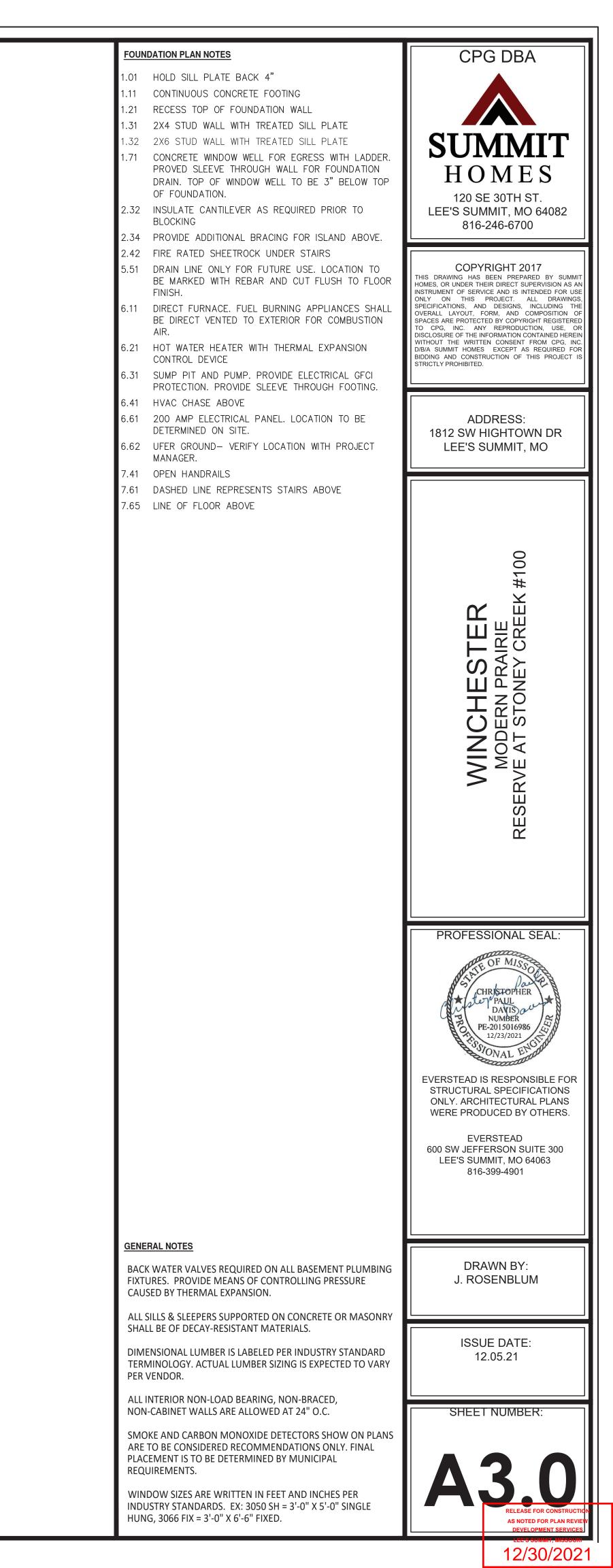
IF BASEMENT SLAB ELEVATION IS ABOVE GRADE CONSULT ENGINEER.

STEEL BEAM FLANGE WIDTH: W8X13 - 4"

IS	SOLATE	D FO		INC	iS	AND	COLL	JMN PADS	
SYM	PIER PAD SIZE	DEPTH	RE		IRCE	NIMUM Iment I St	GRADE	SCHEDULE 40 STEEL COLUMN, MIN FY = 35 KSI	
	30″×30″	1'-0"		(5)	#4	BAR	E.W.	3″ DIAMETER	
B	36″×36″	1'-0"		(6)	#4	BAR	E.W.	3″ DIAMETER	
\triangle	42″×42″	1′-2″		(7)	#4	BAR	E.W.	3″ DIAMETER	
	48″×48″	1'-4″		(8)	#4	BAR	E.W.	3″ DIAMETER	
È	54″×54″	1'-4"		(9)	#4	BAR	E.W.	3″ DIAMETER	
F	60″×60″	1′-6″		(10)	#4	BAR	E.W.	3.5″ DIAMETER	
ANY SIZE FOOTING WITH AN (*) NO COLUMN NEEDED									
IS	ISOLATED FOOTINGS AND COLUMN PADS								
SYM	PIER DIAMETE	RDEP	ТН	MINI	MUM		NFORCEM <si ste<="" td=""><td>1ENT GRADE 40 EL</td></si>	1ENT GRADE 40 EL	
G	12″	3'-	0″			(4)	VERTIC	AL #4	
Æ	16″	3'-	0″			(4)	VERTIC	AL #4	
	18″	3'-	0″			(4)	VERTIC	AL #4	
Ŕ	24″	3'-	0″			(4)	VERTIC	AL #4	
	28″	3'-	0″			(4)	VERTIC	AL #4	

COLUMN AND PAD SIZES ARE FOR A MAXIMUM COLUMN HEIGHT OF 10'. COLUMNS GREATER THAN 10' REQUIRE A SEPARATE ENGINEERED DESIGN. FOOTINGS A-F SPACING OF 6" O.C. WITH 3" CLEAR COVER.





NOTE

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ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

DETAILS AND NOTES:

BASEMENT EGRESS WINDOWS ARE TO COMPLY WITH IRC R310.2. WINDOW FALL PROTECTION REQUIREMENTS TO COMPLY WITH SECTION R612.2.

STAIRS SHALL COMPLY WITH IRC R311.7. THE MAXIMUM RISER HEIGHT OF STAIRWAYS SHALL NOT EXCEED 7-3/4" AND THE TREADS SHALL PROVIDE A MINIMUM TREAD DEPTH OF 10" (IRC 2018 R311.7.5.1). SELF CLOSING DEVICES ARE REQUIRED FOR GARAGE TO

DWELLING SEPARATION DOORS. STEEL COLUMNS WILL BE A MINIMUM OF SCHEDULE 40.

ENERGY REQUIREMENTS SHALL CONFORM TO THE IRC CHAPTER 11.

SECURITY SHALL CONFORM TO IRC R326/KCBRC. AN ACCESSIBLE CONNECTION POINT WILL BE PROVIDED TO A 20 FOOT CONCRETE ENCASED ELECTRODE (FOOTING REBAR) FOR THE ELECTRICAL SERVICE GROUNDING ELECTRODE CONDUCTOR (UFER GROUND). CARBON MONOXIDE DETECTORS WILL BE PROVIDED IN ACCORDANCE WITH IRC SECTION R315.

THE BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED(2018 IRC SECTION N1102.4.1 AND TABLE N1102.4.1.1). DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED (2018 IRC SECTION N1103.2.2)

FLOOR PLANS:

LEDGERS(FLOOR AND CEILING) SHALL BE IN ACCORDANCE WITH IRC 507. ALL CANTILIEVERS SHALL HAVE AT LEAST A 3:1 BACK SPAN. A MINIMUM OF DOUBLE JOIST UNDER EACH BEARING WALL IS REQUIRED.

ALL WALLS UNDER 12' SHALL BE DOUGLAS FIR LARCH #2 2X4 TUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED)

ALL WALLS 12' AND OVER SHALL BE DOUGLAS FIR #2 (M-12) LUMBER 2x6 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

EXTERIOR WALL SHEATHING SHALL BE AS FOLLOWS:

are the set of the set 76" THICK OSB FOR METHOD CS-PF.

SPECIFIED THICKNESS OF OSB SHALL BE INSTALLED UNDERNEATH LP LAP SIDING AND/OR ENGINEERED BRACED WALL PANELS.

LP PANEL SIDING - 7/16" GROOVED SHALL BE EQUIVALENT TO $\frac{3}{8}$ " THICK OSB. OSB MAY BE OMITTED UNDERNEATH 7/16"

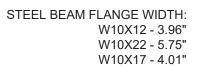
GROOVED PANEL SIDING IN AREAS REQUIRING 3" THICK OSB. INSTALL FASTENERS AND NAILING PATTERN PER 2018 IRC

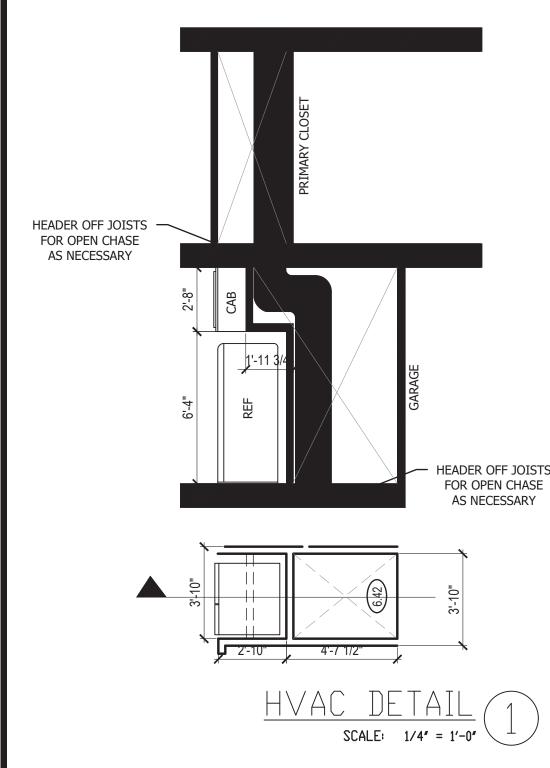
SECTION R602.10.

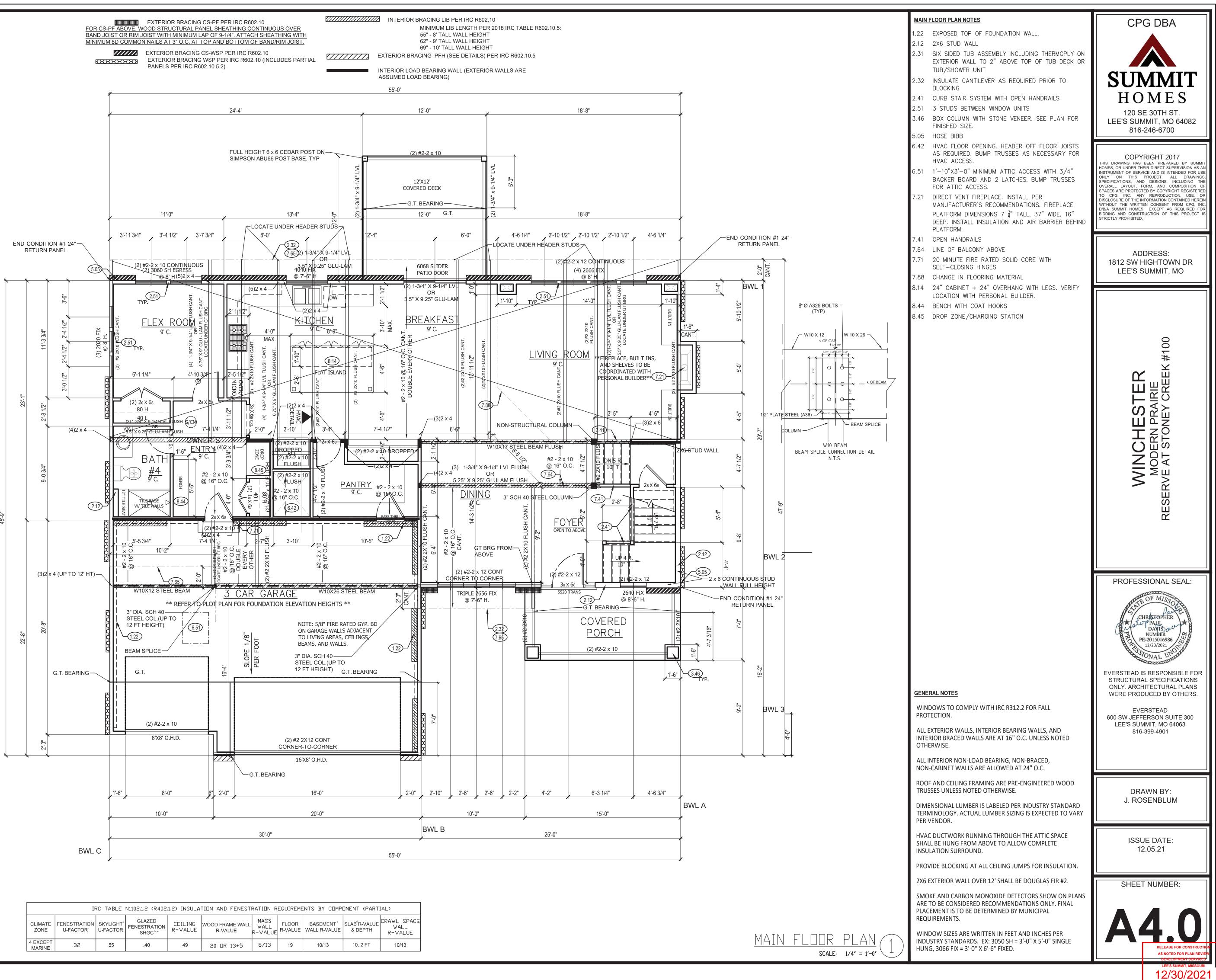
GIRDER TRUSS BEARING MIN. STUD PACK OF (4) 2 x 4 OR (4) 2 x 6 DOUGLAS FIR LARCH #2 (DEPENDING ON WALL THICKNESS) BELOW EACH BEARING POINT OF EACH GIRDER TRUSS, UNLESS THERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN O FOUNDATION OR LOAD SUPPORTING MEMBER.

PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT OADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.

LVL'S SHALL BE: BOISE CASCADE VERSA-LAM 3100 FB GLU-LAMS SHALL BE: DF 24F-V4 - WESTERN PROVIDE FULL BEARING FOR OPTION SELECTED







	IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL)									
CLIMATE ZONE	FENESTRATION U-FACTOR [®]	SKYLIGHT [♭] U-FACTOR	GLAZED FENESTRATION SHGC ^{b, e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUÉ	FLOOR R-VALUE		SLAB R-VALUE	CRAWL SPACE WALL R-VALUE
4 EXCEPT MARINE	.32	.55	.40	49	20 OR 13+5	8/13	19	10/13	10, 2 FT	10/13

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ALL WALLS 12' AND OVER SHALL BE DOUGLAS FIR #2 (M-12) LUMBER 2x6 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

EXTERIOR WALL SHEATHING SHALL BE AS FOLLOWS:

are thick osb for methods: wsp, cs-wsp and PFH 76" THICK OSB FOR METHOD CS-PF.

SPECIFIED THICKNESS OF OSB SHALL BE INSTALLED UNDERNEATH LP LAP SIDING AND/OR ENGINEERED BRACED WALL PANELS.

LP PANEL SIDING - 7/16" GROOVED SHALL BE EQUIVALENT TO ³/₈" THICK OSB. OSB MAY BE OMITTED UNDERNEATH 7/16" GROOVED PANEL SIDING IN AREAS REQUIRING 3" THICK OSB.

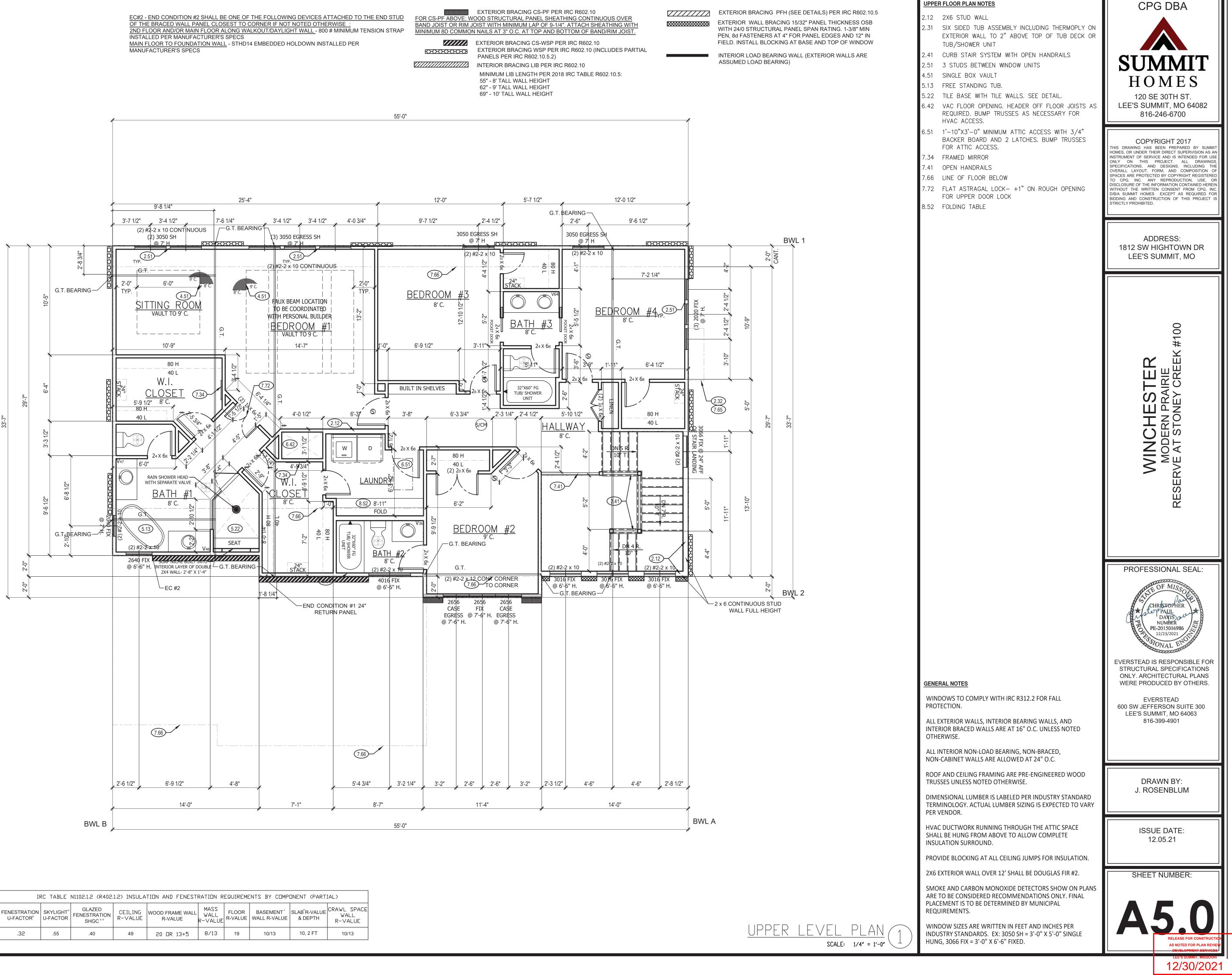
INSTALL FASTENERS AND NAILING PATTERN PER 2018 IRC SECTION R602.10.

GIRDER TRUSS BEARING

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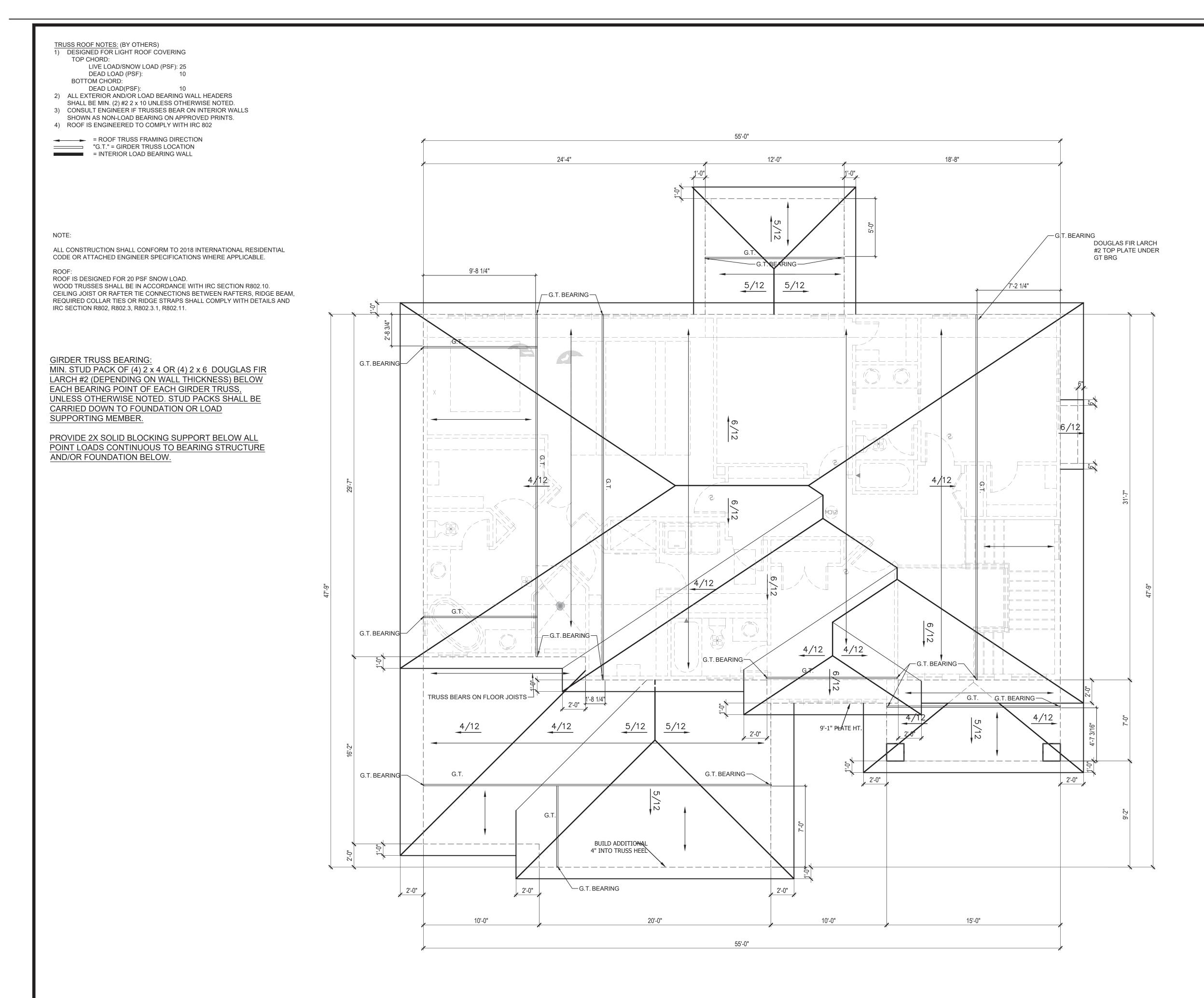
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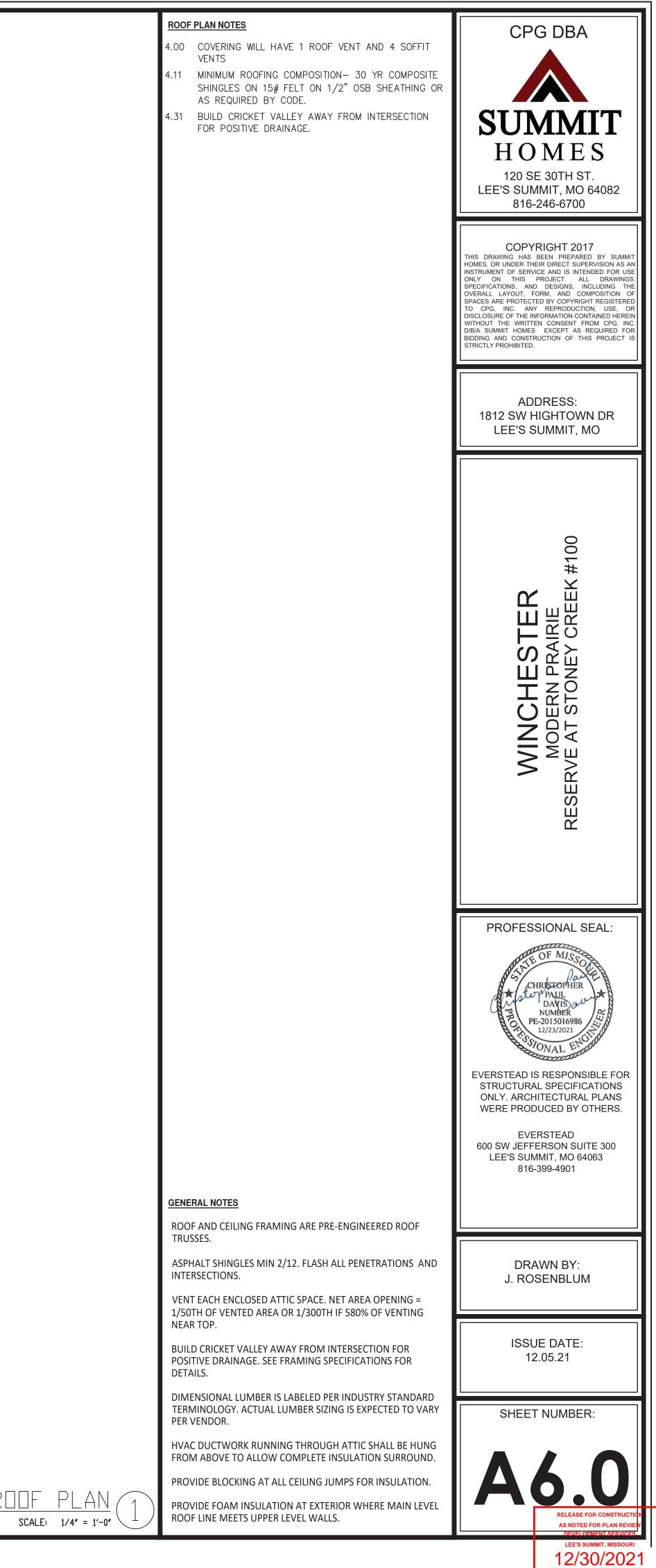
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GENERAL NOTES

PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) WITH AMENDMENTS AS ADOPTED BY THE APPROPRIATE GOVERNING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CHANGES OR DEVIATIONS FROM THE PLAN ARE MADE DURING CONSTRUCTION. THE ENGINEER OF RECORD MAY REQUIRE REVISED DRAWING OR CALCULATIONS AT ITS DISCRETION.

IF DISCREPANCIES ARE IDENTIFIED THE MOST CONSERVATIVE SPECIFICATION SHALL APPLY.

LOADING

DEAD		
LIGHT ROOF	10 PSF	
HEAVY ROOF	+10 PSF	(CONCRETE, SLATE, TILE)
ROOF + CEILING (NO STORAGE)	15 PSF	
ROOF + CEILING (STORAGE)	20 PSF	
CEILING JOISTS (STORAGE)	10 PSF	
EXTERIOR BACONIES / DECK	10 PSF	
INTERIOR FLOOR (MAIN FLOOR)	15 PSF	
INTERIOR FLOOR (UPPER FLOORS)	10 PSF	
8" THICK MASONRY WALL	80 PSF	
6" THICK MASONRY WALL	85 PSF	
EXTERIOR LIGHT FRAMED WOOD WALLS	15 PSF	
INTERIOR LIGHT FRAMED WOOD WALLS	10 PSF*	
*(INTERIOR WALLS IN	ICLUDED IN	15 PSF DEAD LOAD)
LIVE		

ROOF LIVE LOAD	15 PSF	
FLOOR LIVE LOAD	40 PSF	(HABITABLE)
GARAGE	50 PSF	
STORAGE	20 PSF	(UN-INHABITABLE)
GUARDRAIL		
CONTINUOUS LINEAR	50 PLD	
MAXIMUM POINTLOAD	200 LBS	
SNOW		
GROUND SNOW LOAD	20 PSF	
WIND		

ULTIMATE DESIGN WIND SPEED VELOCITY 115 MPH EXPOSURE CATEGORY

SOIL AND SITE ASSUMPTIONS:

- FOUNDATION DESIGN ASSUME A MINIMUM SOIL BEARING PRESSURE FOR THE SITE OF 1,500 PSF CONTRACTOR TO VISUALLY INSPECT SITE OR PROVIDE GEOTECHNICAL INVESTIGATION TO VERIFY MINIMUM ACCEPTABLE SOIL CONDITIONS SW, SP, SM, SC, GM, AND GX AS DEFINED PER IRC TABLE R301.5. THE CONTRACTOR IS RESPONSIBLE FOR ANY SOIL CONDITION THAT DOES NOT MEET THE MINIMUM REQUIREMENTS AND CONTACTING THE ENGINEER OF RECORD.
- 2. PROVIDE A MINIMUM SOIL COVER OF <u>36 INCHES MEASURED FROM THE BOTTOM OF CONCRETE ON</u> ALL FOUNDATIONS.
- ACCESSORY STRUCTURES WITH AN EAVE HEIGHT LESS THAN 10'-0" AND AN AREA LESS THAN 600 FT² MAT PROVIDE A MINIMUM SOIL COVER OF 12 INCHES MEASURED FROM THE BOTTOM OF CONCRETE.
- 4. SITE GRADING SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE AT A MINIMUM OF 0.5%.
- 5. LATERAL SOIL PRESSURES
- ACTIVE 30 PSF AT-REST 60 PSF

PASSIVE 150 PSF

FOUNDATION NOTES:

FOUNDATION ANCHORAGE (IRC 403.1.6)

SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WALL WITH A MINIMUM 1/2" DIAMETER ANCHOR BOLTS EMBEDDER AT LEAST 7" INTO THE CONCRETE. BOLTS SHALL BE SPACED NO GREATER THAN 6' 0.C. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PLATE SECTION, WITH A BOLT PLACED WITHIN 12" AND NOT CLOSER THAN 7 BOLT DIAMETERS. OF THE END OF EACH PLATE SECTION. A PROPERLY SIZED NUT AND WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE, (NOTE: 7" EMBEDMENT + 1-1/2" SILL PLATE + 3/4" FOR NUT AND WASHER EXCEEDS A 9" LONG BOLT.)

WALL BRACING METHODS PER IRC R602 MAY REQUIRE ADDITIONAL ANCHORAGE.

CONCRETE SLABS PLACED ON FILL MATERIAL WHICH EXCEEDS 24" OF COMPACTED GRANULATED MATERIAL (SAND OR GRAVEL) OR 8" OF EARTH: THIS MAY OCCUR AT GARAGE FLOOR FILLS, OR OVER EXCAVATED AREAS UNDER FLOOR SLABS. THE DESIGN AND INSTALLATION DETAILS IN THIS DOCUMENT (WHERE APPLICABLE BASED ON SIZE AND SPACING LIMITATIONS) MAY BE USED IN LIEU OF PROVIDING A SEPARATE DESIGN. STRUCTURAL SLABS EXCEEDING THE SPANS AND CONDITIONS OF THE APPROVED DETAILS SHALL BE DESIGNED BY A

SLABS AT MAX 4' OVER-DIG ADJACENT TO FOUNDATION WALL: WHERE SOIL IS EXCAVATED FOR A MAXIMUM DIMENSION OF 4' HORIZONTALLY ADJACENT TO A FOUNDATION WALL, THE STANDARD OVER-DIG DETAIL MAY BE USED IN LIEU OF A COMPLETE STRUCTURAL SLAB. SEE "TYPICAL FOOTING/FOUNDATION WALL/STANDARD SLAB AT MAX 4' OVER-DIG DIAGRAM FOR DETAILS.

VAPOR RETARDER / BARRIER (IRC R506.2.3)

PROFESSIONAL ENGINEER.

A 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED A MINIMUM OF 6" IS REQUIRED BETWEEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE OR PREPARED SUBGRADE, (NOT REQUIRED FOR GARAGE SLABS OR DETACHED ACCESSORY BUILDINGS)

FOUNDATION AND LOT GRADING (IRC R401.3)

GRADES SHALL BE SLOPED AWAY FROM THE FOUNDATION A MINIMUM OF 6" IN THE FIRST 10'. ALTERNATE APPROACHES MAY BE APPROVED IF THE ALTERNATE DESIGN IS EQUIVALENT IN EFFECTIVENESS AND PERFORMANCE, AND PROVIDES FOR POSITIVE SITE DRAINAGE.

IRC R403.1.4

- THE BOTTOM OF ALL FOOTINGS SHALL EXTEND NOT LESS THAN 36" BELOW GRADE FOR FROST
- PROTECTION. FOOTINGS FOR FREESTANDING ACCESSORY STRUCTURES WITH AN AREA OF 600 SF OR LESS AND AN EAVE HEIGHT OF 10' OR LESS SHALL EXTEND BELOW GRADE A MINIMUM OF 12".

FOOTINGS:

EXTERIOR WALLS, BEARING WALLS, COLUMN AND PIERS SHALL BE SUPPORTED ON CONTINUOUS SOLID MASONRY OR CONCRETE FOOTINGS, OR APPROVED STRUCTURAL SYSTEM TO SAFELY SUPPORT THE IMPOSED LOADS AND SHALL BE SIZED AND REINFORCED IN ACCORDANCE WITH THIS STANDARD OR THE STRUCTURE AND FROM ONE LEVEL TO THE NEXT. THE CONTINUOUS TRANSITIONS BETWEEN FOOTINGS AT DIFFERENT LEVELS ENCLOSING USABLE SPACE SHALL BE MADE BY APPROVED SOLID JUMPS OR SUPPORT SYSTEMS TO PROVIDE SAFE SUPPORT OF THE STRUCTURE. SEE "TYPICAL FOOTING/FOUNDATION WALLS/STANDARD SLAB AT MAXIMUM 4" OVER-DIG AND "FOOTING JUMP" DIAGRAMS FOR MORE DETAIL (PER KC, MO STANDARDS)

<u>CONCRETE</u>

- 1. ALL CONCRETE CONSTRUCTION SHOULD CONFORM TO ACI 318-11 AND THE 2018 INTERNATIONAL RESIDENTIAL CODE.
- 2. THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2.
- 3. CONCRETE MIX TO UTILIZE A MAXIMUM WATER-CEMENT MATERIALS RATIO OF 0.45 FOR ALL APPLICATIONS. ALL CONCRETE TO HAVE MAXIMUM 0.10 PERCENT WATER SOLUBLE CHLORIDE CONTENT BY WEIGHT OF CEMENT. ADMIXTURES SHALL NOT CONTAIN ANY CHLORIDES.
- 4. CONCRETE POURED AGAINST AN EXISTING SURGACE SHOULD BE ROUGHENED TO A MINIMUM 1/4 INCH AMPLITUDE.
- 5. REBAR CLEAR DISTANCE SHALL BE AS FOLLOWS: -CAST AGAINST AND PERMANENT CONTACT WITH GROUND3 IN -EXPOSED TO WEATHER OR IN CONTACT WITH GROUND - NOT EXPOSED TO WEATHER OR GROUND
- 6. CONCRETE MIX DESIGN SHALL BE 6% (±1%) AIR-ENTRAINED FOR GARAGE SLABS, FOOTINGS, WALLS, OR FLATWORK EXPOSED TO WEATHER.
- SHORING AND RESHORING: BEFORE CONCRETE STRENGTH REACHES 70% OF STRENGTH DETERMINED BY CYLINDERS OR 28

DAYS -SHORING MAY NOT BE REMOVED SOONER THAN RECOMMENDED BY ASTM 374-04 SECTION 3.7.2.3.

MINIMUM STANDARDS

OTHERWISE. REINFORCING BAR SHALL BE GRADE 60 MINIMUM.

CONCRETE REINFORCEMENT STEEL

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- 2. SMOOTH BARS OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.
- 3. ALL REBAR LAP SPLICES SHALL BE CLASS B LAP SPLICES AS SHOWN ON THE LAP SPLICE SCHEDULE.
- 4. DEVELOPMENT LENGTH NOTED IS EQUAL TO 80% OF THE LENGTH NOTED IN THE LAP SPLICE SCHEDULE.
- 5. 90% HOOK SHOWN IN DRAWINGS SHALL BE STANDARD PER ACI 318-14 -STRAIGHT EXTENSION LENGTH = $12xØ_{BAR}$ -BEND DIAMETER = $12XØ_{BAR}$
- 6. LAP SPLICE SCHEDULE (SEE TABLE 1.1)
- 7. HOOKED DOWELS:
- REINFORCING AND EXTENDED TO 3" CLEAR FROM BOTTOM OF FOUNDATION
- 8. PROVIDE 2 #5 BARS AROUND PERIMETER OF ALL SUSPENDED SLABS
- HOOK
- 10. TOP AND BOTTOM HORIZONTAL REINFORCING SHALL BE PLACED 1-1/2" TO 2" FROM THE TOP AND BOTTOM OF THE WALL

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 SHALL HAVE VERTICAL REINFORCEMENT PLACE AS FOLLOWS:
- A. 8" WALL MINIMUM 5" FROM THE OUTSIDE FACE. B. 10" WALL - MINIMUM 6-3/4" FROM THE OUTSIDE FACE. C. EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL.
- 3. HORIZONTAL REINFORCEMENT:
 - A. ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL.
- BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE INSIDE). D. SUPPLEMENTAL REINFORCEMENT AT CORNERS - PLACE 1 #4 REBAR 48" LONG AT 45 DEGREE
- CORNERS.
- 5. AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 3-1/2". LEDGES SHALL NOT EXCEED
- 6. STRAIGHT WALLS MORE THAN 5' TALL AND MORE THAN 16' LONG SHALL BE PROVIDED WITH EXTERIOR BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS (SEE TYPICAL DEAD MAN SECTION). TABLE 1.1

NORMAL WEIGHT CONCRETE LAP SPLICE SCHEDULE, IN							
BAR	TOP	BARS	OTHEF	RBARS			
SIZE	CASE 1	CASE 2	CASE 1	CASE 2			
#3	28	42	22	32			
#4	37	56	29	43			
#5	47	70	36	54			
#6	56	84	43	64			

SHALL BE ENGINEERED DESIGN. FOOTINGS UNDER FOUNDATION WALLS SHALL BE CONTINUOUS AROUND

2 IN 1.5 IN

-SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS

CONCRETE SHALL BE 6% (± 1%) AIR-ENTRAINED FOR GARAGE SLABS AND FOR ALL LOCATION'S FOOTINGS, WALLS OR FLATWORK WHERE EXPOSED TO WEATHER. REBAR SHALL BE MINIMUM 60 KSI UNLESS NOTED

7.1. HOOKED DOWELS FROM FOUNDATIONS TO WALL SHALL BE PROVIDED TO MATCH VERTICAL WALL 7.2. HOOKED DOWELS MATCH SLAB REINFORCING FROM SLAB TO WALLS OR SLAB TO FOUNDATION

9. HORIZONTAL WALL REINFORCING SHALL TERMINATE AT THE END OF THE WALL WITH A STANDARD

REINFORCEMENT SPACED 24" O.C. MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER WALLS

B. OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" O.C. C. HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR); AND

ANGLE AT CORNERS OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF THE EDGE OF INSIDE

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

A DEPTH OF MORE THAN 24" BELOW THE TOP OF THE WALL FOR WALL THICKNESS LESS THAN 4" PROVIDE #4 BARS AT MAXIMUM 24" O.C. TO WITHIN 8" OF THE TOP OF THE WALL.

STEEL DECK - SUSPENDED SLABS

1.

STEEL DECK QUALITY, FABRICATION, DELIVERY, INSTALLATION AND ATTACHMENT SHALL COMPLY
WITH THE PROVISIONS OF THE STEEL DECK INSTITUTE, SDI.

STEEL ROOF DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS:

- WIDE RIB CONFIGURATION
- 1.5" DEPTH 24GA DESIGN THICKNESS
- MAXIMUM SINGLE SPAN OF 4'-8" OR CONTINUOUS SPAN OF 5'-10"
- GALVANIZE PER ASTM A653 OR SHOP PRIME PER ASTM A1008
- ATTACH STEEL ROOF DECK TO SUPPORTS WITH #12 TEK AT 18" O.C. ATTACH STEEL ROOF DECK SIDELAPS WITH #10 TEK OR CRIMP/BUTTON PUNCH AT 36" O.C. OR
- MID-SPAN, WHICHEVER IS SMALLER 3. CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY DECK CLOSURE ACCESSORIES TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF ROOF INSULATION AND
- ROOF COVERING. 4. STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION

DRAWINGS: STEEL DECK - SUSPENDED SLABS

STEEL DECK QUALITY, FABRICATION, DELIVERY, INSTALLATION AND ATTACHMENT SHALL COMPLY WITH THE PROVISIONS OF THE STEEL DECK INSTITUTE, SDI. CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY DECK CLOSURE

- ACCESSORIES TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF ROOF INSULATION AND ROOF COVERING STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS:
 - 2" COMPOSITE DECK WITH 6" TOTAL SLAB THICKNESS 19GA DESIGN THICKNESS
 - MAXIMUM SINGLE SPAN DURING CONSTRUCTION OF 8', 2 SPAN OF 10'-1", OR 3 SPAN OF 10'-5". MAXIMUM SPAN SHALL NOT EXCEED 12.5'. PROVIDE W2.1xW2.1 WELDED WIRE MESH OR #4 @ 12" O.C. EACH WAY. PROVIDE 2" REBAR
 - COVER MEASURED FROM TOP OF THE SLAB
 - GALVANIZE PER ASTM A653 MINIMUM BEARING LENGTH AT EDGE SUPPORTS IS 2"
 - MINIMUM BEARING LENGTH AT INTERIOR SUPPORTS IS 4"
 - ATTACH STEEL COMPOSITE FLOOR DECK TO SUPPORTS WITH 5/8" ARC PUDDLE WELDS AT 12" O.C. MECHANICAL FASTENERS EITHER POWDER ACTUATED, PNEUMATICALLY DRIVEN, OR SCREWS MAY BE USED IN LIEU OF WELDING PROVIDED THEY ARE APPROVED. ATTACH STEEL ROOF DECK SIDELAPS WITH #10 TEK OR CRIMP/BUTTON PUNCH AT 36" O.C. OR
- MID-SPAN, WHICHEVER IS SMALLER. CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY POUR STOPS, COLUMN CLOSURES, END PLATES, AND COVER PLATES AS NEEDED.

STRUCTURAL STEEL

- 1. STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- 2. STEEL GRADE AND SPECIFICATION SHALL BE AS FOLLOWS: HOLLOW STRUCTURAL SECTIONS: ASTM A500 (Fy = 46 KSI) ASTM A36 (Fy = 36 KSI) CHANNELS, PLATES AND ANGLES: WIDE FLANGES: ASTM A992 (Fy = 50 KSI) ASTM A53 GR. B (Fy= 35 KSI) COLUMNS: ANCHOR RODS: ASTM F1554 (Fy = 36 KSI)
- 3. BOLTS SHALL CONFORM TO ASTM A307
- WELDING SHALL CONFORM TO THE AWS CODES FOR BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE TO WELDING PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS D1.1 THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER.
- WELDS SHALL USE E70XX ELECTRODES AND A MINIMUM OR 3/16" SIZE UNLESS NOTED OTHERWISE
- 6. ALL WELDS SPECIFIED AS FIELD WELDS MAY BE SHOP WELDED AT THE CONTRACTOR'S OPTION IF ERECTION CAN STILL BE EXECUTED.

- 2. PROGRAMMABLE THERMOSTATS SHALL BE INSTALLED AS REQUIRED PER N1103.1.1.
- 3. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2% AIR LEAKAGE RATE PER N1103.3.2.1.
- 4. BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.
- 5. HOT WATER PIPES SHALL BE INSULATED AS REQUIRED PER N1103.4.
- 6. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR AS REQUIRED PER IRC M1504.3. 7. MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM
- AS REQUIRED PER M1503.6.

GARAGES:

- 3. THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND IT'S ATTIC AREAS BY A MINIMUM 5/8" GYPSUM BOARD APPLIED TO THE GARAGE SIDE WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE.
- 4. THE GARAGE COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 5/8" GYPSUM BOARD OR EQUIVALENT. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE THE FLOOR CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM PS TYPE "X" GYPSUM BOARD ON THE GARAGE CEILING.
- 5. GARAGE DOOR AND FRAME THE "H" FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING 2x6 VERTICAL JAMBS RUNNING FROM THE FLOOR TO CEILING, ATTACHED WITH 1-3/4"x0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 3-1/4"x0.120" NAILS THROUGH THE JAMB INTO THE HEADER. A MINIMUM OF 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.
- 6. SELF CLOSING DEVICES SHALL BE INSTALLED FOR GARAGE AND/OR DWELLING SEPARATION DOORS PER R302.5.1.

STAIRWAYS:

- MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW. 3. GUARD RAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OF ORNAMENTAL PATTERNS THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.
- 4. EACH STAIRWAY OF THREE OR MORE RISERS SHALL PROVIDE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE TREADS.
- 5. HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1-1/4" TO 2-5/8" OR OTHER APPROVED GRASPABLE SHAPE PER IRC R311.5.6.
- 6. MINIMUM 6'-8" OF HEADROOM CLEARANCE IS REQUIRED IN STAIRWAYS.

GLAZING

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EMERGENCY EGRESS AND RESCUE

- 1. PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SF WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 21"
- 3. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR INCLUDING BASEMENTS. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING.

FRAMING NOTES:

- WALLS.

- 6. ANY WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY (OR THE FURRING THEY ARE
- ATTACHED TO) SHALL BE OF DECAY RESISTANT MATERIAL.
- 7. INTERIOR NON LOAD BEARING WALLS SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE UNLESS THE INTERIOR NON LOAD BEARING WALL RESTS DIRECTLY ON A FOOTING.
- 8. LVL STRENGTH SHALL BE VERSA-LAM 3100 Fb UNLESS NOTED OTHERWISE.

ENERGY REQUIREMENTS:

- 1. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE IC-RATED, LEAKAGE RATED, AND SEALED TO THE GYPSUM WALLBOARD AS REQUIRED PER IRC N1102.4.4.
- 8. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER M1601.6 ENERGY CONSERVATION.
- 1. THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS.
- 2. DOORS BETWEEN THE GARAGE AND THE DWELLING MINIMUM 1-3/8" SOLID CORE OR HONEY COMBED STEEL DOOR OR 20 MINUTE FIRE RATED.

- 7. GARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 90 MPH WIND LOAD REQUIREMENTS OF DASMA 108 AND ASTM E330-96 (IRC 301.2.1).
- 1. STAIRWAYS SHALL PROVIDE A MAXIMUM 7-3/4" RISE AND A MINIMUM 10" RUN.
- 2. PROVIDE GUARD RAILS BETWEEN 36" GUARD RAILS ON THE OPEN SIDES OF RAISED FLOORS, PORCHES AND BALCONIES; MINIMUM 34" GUARD RAILS ON THE OPEN SIDES OF STAIRWAYS LOCATED
- 7. ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON ENCLOSURE SIDE PER IRC R311.2.2.
 - N HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC R308.4 SHALL BE OF APPROVED SAFETY IATERIALS; GLASS IN STORM DOORS; INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT R WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN A CLOSED AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR; WALLS ENCLOSING STAIRWAYS INGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR; RES FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS; GLAZING IN FIXED OR OPENABLE CEEDING 8 SF AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR LKING SURFACE WITHIN 36".
- 2. WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH R312.2.
- 2. BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC R310.
- 4. CARBON MONOXIDE DETECTORS SHALL BE INSTALLED AS REQUIRED PER R315.
- 1. ALL LUMBER SIZES ARE DOUGLAS FIR-LARCH #2 UNLESS OTHERWISE NOTED.
- 2. ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2x10 ON LOAD BEARING
- 3. ALL HEADER/BEAMS TO BEAR ON A MINIMUM OF (2) 2x4 POSTS UNLESS NOTED OTHERWISE.
- 4. DOUBLE JOIST UNDER INTERIOR NON-LOAD BEARING WALLS.
- 5. CANTILEVERS, OVER BEAMS, AND DOOR JAMBS SHALL BE BLOCKED



everstead www.everstead.com 600 SW JEFFERSON ST SUITE 300 LEES SUMMIT, MO 64063 (816) 399-4901



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12/30/2021

ILING JOSTS TO TOP PLATE NG JOISTS NOT ATTACHED TO RALLEL RAFTER LAPS OVER PARTITIONS EILING JOIST ATTACHED TO ALLEL RAFTER (HEEL JOINT) AR TIE TO RAFTER, FACE NAIL 1-1/4"x20 GAGE RIDGE STRAP TO RAFTER ER OR ROOF TRUSS TO PLATE FRAFTERS TO RIDGE, VALLEY P RAFTERS OR ROOF RAFTER O MINIMUM 2" RIDGE BEAM D TO STUD (NOT AT BRACED WALL PANELS) UILT-UP HEADER (2" TO 2"	ROOF ROOF 4-8D BOX (2-1/2"x0.113") OR 3-8D COMMON (2-1/2" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 4-8D BOX (2-1/2"x0.113") OR 3-8D COMMON (2-1/2" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 3-16D COMMON (3" X 0.128"); OR 3-16D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS O TABLE R802.5.2 NT) NAIL 4-10D BOX (3" X 0.128"); OR 3-16d BOX NAILS (3-1/2"x0.135") OR 3-16d BOX NAILS (3-1/2"x0.135") OR 3-16d BOX NAILS (3-1/2"x0.135") OR 3-10D COMMON (3" X 0.148"); OR 4-10D BOX (3" X 0.128"); OR 4-10D BOX (3" X 0.128"); OR 4-10D BOX (3" X 0.128"); OR 3-100 COMMON (3" X 0.148"); OR 4-100 BOX (3" X 0.128"); OR 3-100 COMMON NAILS (3-1/2"x0.135") OR 3-100 BOX (3"	SPACING AND LOCATION TOE NAIL TOE NAIL PER JOIST, TOE NAIL FACE NAIL FACE NAIL FACE NAIL FACE NAIL EACH RAFTER CTOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS TOE NAIL END NAIL 24" O.C. FACE NAIL 16" O.C. FACE NAIL 12" O.C. FACE NAIL	21 22 23 24 25 26 27 28	(ROOF APPLICATIONS ALSO) 1"x6" SUBFLOOR OR LESS TO EACH JOIST 2" SUBFLOOR TO JOIST OR GIRDER 2" PLANKS (PLANK & BEAM - FLOOR & ROOF) BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	2-16D COMMON (3-1/2"x0.162") 3-16D COMMON (3-1/2" X 0.162"); OR 4-10 BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS ; OR 4-3" X 14 GA. STAPLES, ⁷ / ₁₆ " CROWN 20D COMMON (4" X 0.192"); OR 10D BOX (3" X 0.128"); OR	TOE N 4" O.C. TO 6" O.C. TO FACE I BLIND AND F AT EACH BEARIN END N NAIL EACH LAYER AS FO TOP END AND BOTTOM 24" O.C. FACE NAIL AT T STAGGERED ON OPPOS FACE NAIL AT ENDS AND	DE NAIL DE NAIL NAIL FACE NAIL NG, FACE NAIL NG, FACE NAIL OLLOWS: 32" O.C. AT AND STAGGERED. TOP AND BOTTOM SITE SIDES
OCKING BETWEEN CEILING 'S OR RAFTERS TO TOP PLATE ILING JOSTS TO TOP PLATE NG JOISTS NOT ATTACHED TO RALLEL RAFTER LAPS OVER PARTITIONS ILING JOIST ATTACHED TO ALLEL RAFTER (HEEL JOINT) AR TIE TO RAFTER, FACE NAIL I-1/4"x20 GAGE RIDGE STRAP TO RAFTER ER OR ROOF TRUSS TO PLATE ER OR ROOF TRUSS TO PLATE F RAFTERS OR ROOF RAFTER D MINIMUM 2" RIDGE BEAM D TO STUD (NOT AT BRACED WALL PANELS) JD TO STUD AND ABUTTING JDS AT INTERSECTING WALL PANELS) UILT-UP HEADER (2" TO 2"	$ \begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l}$	PER JOIST, TOE NAIL FACE NAIL FACE NAIL FACE NAIL FACE NAIL EACH RAFTER CTOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS TOE NAIL END NAIL 24" O.C. FACE NAIL 16" O.C. FACE NAIL	22 23 24 25 26 27	GIRDER RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO) 1"x6" SUBFLOOR OR LESS TO EACH JOIST 2" SUBFLOOR TO JOIST OR GIRDER 2" PLANKS (PLANK & BEAM - FLOOR & ROOF) BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	3-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS 8d BOX (2-1/2"x0.113") 8D COMMON (2-1/2" X 0.131"); OR 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS 3-8D BOX (2-1/2" X 0.113"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG FLOOR 3-16D BOX (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2"x0.162") 3-16D BOX (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2" X 0.162") 3-16D COMMON (3-1/2" X 0.162") 3-16D COMMON (3-1/2" X 0.162"); OR 4-3" X 0.131" NAILS ; OR 4-3" X 14 GA. STAPLES, $\frac{7}{16}$ " CROWN 20D COMMON (4" X 0.192"); OR 10D BOX (3" X 0.128"); OR 3-10D BOX (3" X 0.128"); OR	4" O.C. TO 6" O.C. TO FACE I BLIND AND F AT EACH BEARIN END N NAIL EACH LAYER AS FO TOP END AND BOTTOM 24" O.C. FACE NAIL AT T STAGGERED ON OPPOS	DE NAIL DE NAIL NAIL FACE NAIL NG, FACE NAIL NG, FACE NAIL OLLOWS: 32" O.C. AT AND STAGGERED. TOP AND BOTTOM SITE SIDES
S OR RAFTERS TO TOP PLATE ILING JOSTS TO TOP PLATE NG JOISTS NOT ATTACHED TO RALLEL RAFTER LAPS OVER PARTITIONS ILING JOIST ATTACHED TO ALLEL RAFTER (HEEL JOINT) AR TIE TO RAFTER, FACE NAIL 1-1/4"x20 GAGE RIDGE STRAP TO RAFTER ER OR ROOF TRUSS TO PLATE F RAFTERS TO RIDGE, VALLEY P RAFTERS OR ROOF RAFTER O MINIMUM 2" RIDGE BEAM D TO STUD (NOT AT BRACED WALL PANELS) UILT-UP HEADER (2" TO 2"	LATE 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 4-8D BOX (2-1/2"x0.113") OR 3-8D COMMON (2-1/2" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS D TO 4-10D BOX (3" X 0.128"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 4-3" X 0.131" NAILS O TABLE R802.5.2 NT) NAIL 4-10D BOX (3" X 0.128"); OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS 3-16d BOX NAILS (3-1/2"x0.135") OR 3-10d COMMON NAILS (3"x0.148"); OR 4-3" X 0.131" NAILS 3-16d BOX NAILS (3-1/2"x0.135") OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS 4-16D (3-1/2"x0.135"); OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS 3-16d BOX NAILS (3-1/2"x0.135") OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS 3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON NAILS (3-1/2"x0.135") OR 3-10D BOX (3" X .128"); OR 3" X 0.131" NAILS MG 16D BOX (3-1/2" X 0.135"); OR	PER JOIST, TOE NAIL FACE NAIL FACE NAIL FACE NAIL FACE NAIL EACH RAFTER CTOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS TOE NAIL END NAIL 24" O.C. FACE NAIL 16" O.C. FACE NAIL	23 24 25 26 27	BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO) 1"x6" SUBFLOOR OR LESS TO EACH JOIST 2" SUBFLOOR TO JOIST OR GIRDER 2" PLANKS (PLANK & BEAM - FLOOR & ROOF) BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	8d BOX (2-1/2"x0.113") 8D COMMON (2-1/2" X 0.131"); OR 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS 3-8D BOX (2-1/2" X 0.113"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG FLOOR 3-16D BOX (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2" X 0.162") 3-16D BOX (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2" X 0.162") 3-16D COMMON (3-1/2" X 0.162"); OR 4-30 BOX (3" X 0.128"); OR 4-31" X 14 GA. STAPLES, 16" CROWN 20D COMMON (4" X 0.192"); OR 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR 3-10D BOX (3" X 0.128"); OR	6" O.C. TO FACE I BLIND AND F AT EACH BEARIN END N NAIL EACH LAYER AS FO TOP END AND BOTTOM 24" O.C. FACE NAIL AT T STAGGERED ON OPPOS	OE NAIL NAIL FACE NAIL NG, FACE NAIL NG, FACE NAIL OLLOWS: 32" O.C. AT AND STAGGERED. TOP AND BOTTOM SITE SIDES
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EILING JOIST ATTACHED TO ALLEL RAFTER (HEEL JOINT) AR TIE TO RAFTER, FACE NAIL 1-1/4"x20 GAGE RIDGE STRAP TO RAFTER ER OR ROOF TRUSS TO PLATE FRAFTERS TO RIDGE, VALLEY P RAFTERS OR ROOF RAFTER D MINIMUM 2" RIDGE BEAM D TO STUD (NOT AT BRACED WALL PANELS) JD TO STUD AND ABUTTING JDS AT INTERSECTING WALL DRNERS (AT BRACED WALL PANELS) UILT-UP HEADER (2" TO 2"	O NT) TABLE R802.5.2 NAIL RAP 4-10D BOX (3" X 0.128"); OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS LATE 3-16d BOX NAILS (3-1/2"x0.135") OR 3-10d COMMON NAILS (3"x0.148"); OR 4-10D BOX (3" X .128"); OR 4-3" X 0.131" NAILS LATE 4-16D (3-1/2"x0.135") ; OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS 4-16D (3-1/2"x0.135") ; OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS 3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON NAILS (3-1/2"x0.135") OR 3-10D BOX (3" X .128"); OR 3-10D BOX (3" X .128"); OR 3-3" X 0.131" NAILS WALL IG D BOX (3"x0.128"); OR 3" X 0.131" NAILS IG D BOX (3-1/2"x0.135"); OR	FACE NAIL EACH RAFTER 2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS TOE NAIL 24" O.C. FACE NAIL 16" O.C. FACE NAIL	25 26 27	2" PLANKS (PLANK & BEAM - FLOOR & ROOF) BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	3-16D BOX (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2"x0.162") 3-16D BOX (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2"x0.162") 3-16D COMMON (3-1/2" X 0.162"); OR 4-10 BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS ; OR 4-3" X 14 GA. STAPLES, ⁷ / ₁₆ " CROWN 20D COMMON (4" X 0.192"); OR 3" X 0.131" NAILS AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR	AT EACH BEARIN END N NAIL EACH LAYER AS FO TOP END AND BOTTOM 24" O.C. FACE NAIL AT T STAGGERED ON OPPOS	NG, FACE NAIL NAIL OLLOWS: 32" O.C. AT AND STAGGERED. TOP AND BOTTOM SITE SIDES
AR TIE TO RAFTER, FACE NAIL 1-1/4"x20 GAGE RIDGE STRAP TO RAFTER ER OR ROOF TRUSS TO PLATE F RAFTERS TO RIDGE, VALLEY P RAFTERS OR ROOF RAFTER D MINIMUM 2" RIDGE BEAM D TO STUD (NOT AT BRACED WALL PANELS) JD TO STUD AND ABUTTING JDS AT INTERSECTING WALL PANELS) UILT-UP HEADER (2" TO 2"	NAIL RAP 4-10D BOX (3" X 0.128"); OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS LATE 3-16d BOX NAILS (3-1/2"x0.135") OR 3-10d COMMON NAILS (3"x0.148"); OR 4-10D BOX (3" X .128"); OR 4-3" X 0.131" NAILS LATE 3-16d COMMON NAILS (3"x0.148"); OR 4-10D BOX (3" X .128"); OR 4-3" X 0.131" NAILS LEY TER M 4-16D (3-1/2"x0.135") ; OR 3-10D COMMON (3" X 0.148"); OR 4-10D BOX (3" X 0.128"); OR 4-3" X0.131" NAILS 3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON NAILS (3-1/2"x0.135") OR 3-10D BOX (3" X .128"); OR 3-10D BOX (3" X .128"); OR 3-3" X 0.131" NAILS WALL WALL WALL I6D COMMON (3-1/2" X 0.162") I0d BOX (3"x0.128"); OR 3" X 0.131" NAILS I6D COMMON (3-1/2" X 0.162") I0d BOX (3"x0.128"); OR 3" X 0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS TOE NAIL END NAIL 24" O.C. FACE NAIL 16" O.C. FACE NAIL	25 26 27	2" PLANKS (PLANK & BEAM - FLOOR & ROOF) BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	2-16D COMMON (3-1/2"x0.162") 3-16D BOX (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2"x0.162") 3-16D COMMON (3-1/2" X 0.162"); OR 4-10 BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS ; OR 4-3" X 14 GA. STAPLES, ⁷ / ₁₆ " CROWN 20D COMMON (4" X 0.192"); OR 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR	AT EACH BEARIN END N NAIL EACH LAYER AS FO TOP END AND BOTTOM 24" O.C. FACE NAIL AT T STAGGERED ON OPPOS	NG, FACE NAIL NAIL OLLOWS: 32" O.C. AT AND STAGGERED. TOP AND BOTTOM SITE SIDES
TO RAFTER ER OR ROOF TRUSS TO PLATE FRAFTERS TO RIDGE, VALLEY PRAFTERS OR ROOF RAFTER DMINIMUM 2" RIDGE BEAM D TO STUD (NOT AT BRACED WALL PANELS) JD TO STUD AND ABUTTING JDS AT INTERSECTING WALL DRNERS (AT BRACED WALL PANELS) UILT-UP HEADER (2" TO 2"	4-3" X 0.131" NAILS 4-3" X 0.131" NAILS 3-16d BOX NAILS (3-1/2"x0.135") OR 3-10d COMMON NAILS (3"x0.148"); OR 4-10D BOX (3" X .128"); OR 4-3" X 0.131" NAILS 4-16D (3-1/2"x0.135"); OR 3-10D COMMON (3" X 0.148"); OR 4-16D (3-1/2"x0.135"); OR 3-10D COMMON (3" X 0.148"); OR 4-10D BOX (3" X 0.128"); OR 4-10D BOX (3" X 0.128"); OR 3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON NAILS (3-1/2"x0.162"); OR 3-10D BOX (3" X .128"); OR 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS WALL Ind BOX (3"x0.128"); OR 3" X 0.131" NAILS IG D BOX (3-1/2"x0.135"); OR <t< td=""><td>2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS TOE NAIL END NAIL 24" O.C. FACE NAIL 16" O.C. FACE NAIL</td><td>26</td><td>& ROOF) BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS</td><td>2-16D COMMON (3-1/2"x0.162") 3-16D COMMON (3-1/2" X 0.162"); OR 4-10 BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS ; OR 4-3" X 14 GA. STAPLES, ⁷/₁₆" CROWN 20D COMMON (4" X 0.192"); OR 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR</td><td>END N NAIL EACH LAYER AS FO TOP END AND BOTTOM 24" O.C. FACE NAIL AT T STAGGERED ON OPPOS</td><td>NAIL OLLOWS: 32" O.C. AT AND STAGGERED. OP AND BOTTOM SITE SIDES</td></t<>	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS TOE NAIL END NAIL 24" O.C. FACE NAIL 16" O.C. FACE NAIL	26	& ROOF) BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	2-16D COMMON (3-1/2"x0.162") 3-16D COMMON (3-1/2" X 0.162"); OR 4-10 BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS ; OR 4-3" X 14 GA. STAPLES, ⁷ / ₁₆ " CROWN 20D COMMON (4" X 0.192"); OR 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR	END N NAIL EACH LAYER AS FO TOP END AND BOTTOM 24" O.C. FACE NAIL AT T STAGGERED ON OPPOS	NAIL OLLOWS: 32" O.C. AT AND STAGGERED. OP AND BOTTOM SITE SIDES
F RAFTERS TO RIDGE, VALLEY P RAFTERS OR ROOF RAFTER D MINIMUM 2" RIDGE BEAM D TO STUD (NOT AT BRACED WALL PANELS) JD TO STUD AND ABUTTING JDS AT INTERSECTING WALL DRNERS (AT BRACED WALL PANELS) UILT-UP HEADER (2" TO 2"	LATE 3-10d COMMON NAILS (3"x0.148"); OR 4-10D BOX (3" X .128"); OR 4-3" X 0.131" NAILS 4-3" X 0.131" NAILS 4-16D (3-1/2"x0.135") ; OR 3-10D COMMON (3" X 0.148"); OR 4-10D BOX (3" X 0.128"); OR 4-3" X0.131" NAILS 3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON NAILS (3-1/2"x0.162"); OR 3-10D BOX (3" X .128"); OR 3-3" X 0.131" NAILS WALL ED 16D COMMON (3-1/2" X 0.162") 10d BOX (3"x0.128"); OR 3" X 0.131" NAILS IG 16D BOX (3-1/2"x0.135"); OR	ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS TOE NAIL END NAIL 24" O.C. FACE NAIL 16" O.C. FACE NAIL	27	BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	3-16D COMMON (3-1/2" X 0.162"); OR 4-10 BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS ; OR 4-3" X 14 GA. STAPLES, ⁷ / ₁₆ " CROWN 20D COMMON (4" X 0.192"); OR 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR	NAIL EACH LAYER AS FO TOP END AND BOTTOM 24" O.C. FACE NAIL AT T STAGGERED ON OPPOS	OLLOWS: 32" O.C. AT AND STAGGERED. OP AND BOTTOM SITE SIDES
P RAFTERS TO RIDGE, VALLEY P RAFTERS OR ROOF RAFTER D MINIMUM 2" RIDGE BEAM D TO STUD (NOT AT BRACED WALL PANELS) JD TO STUD AND ABUTTING JDS AT INTERSECTING WALL DRNERS (AT BRACED WALL PANELS) UILT-UP HEADER (2" TO 2"	LLEY TER A 3-10D COMMON (3" X 0.148"); OR 4-10D BOX (3" X 0.128"); OR 4-3" X0.131" NAILS 3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON NAILS (3-1/2"x0.162"); OR 3-10D BOX (3" X .128"); OR 3-3" X 0.131" NAILS WALL ED 16D COMMON (3-1/2" X 0.162") 10d BOX (3"x0.128"); OR 3" X 0.131" NAILS IG 16D BOX (3-1/2"x0.135"); OR	END NAIL 24" O.C. FACE NAIL 16" O.C. FACE NAIL		BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20D COMMON (4" X 0.192"); OR 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR	TOP END AND BOTTOM 24" O.C. FACE NAIL AT T STAGGERED ON OPPOS	AND STAGGERED. TOP AND BOTTOM SITE SIDES
D MINIMUM 2" RIDGE BEAM D TO STUD (NOT AT BRACED WALL PANELS) JD TO STUD AND ABUTTING JDS AT INTERSECTING WALL DRNERS (AT BRACED WALL PANELS) UILT-UP HEADER (2" TO 2"	3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON NAILS (3-1/2"x0.162"); OR 3-10D BOX (3" X .128"); OR 3-3" X 0.131" NAILS WALL WALL IGD COMMON (3-1/2" X 0.162") IGD COMMON (3-1/2" X 0.162") IGD BOX (3"x0.128"); OR IGD BOX (3-1/2"x0.135"); OR	24" O.C. FACE NAIL 16" O.C. FACE NAIL		LUMBER LAYERS	3" X 0.131" NAILS AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR	STAGGERED ON OPPOS	SITE SIDES
WALL PANELS) JD TO STUD AND ABUTTING JDS AT INTERSECTING WALL DRNERS (AT BRACED WALL PANELS) UILT-UP HEADER (2" TO 2"	ED 16D COMMON (3-1/2" X 0.162") 10d BOX (3"x0.128"); OR 3" X 0.131" NAILS IG 16D BOX (3-1/2"x0.135"); OR	16" O.C. FACE NAIL	28		3-3" X 0.131" NAILS		JAT EACH SPLICE
WALL PANELS) JD TO STUD AND ABUTTING JDS AT INTERSECTING WALL DRNERS (AT BRACED WALL PANELS) UILT-UP HEADER (2" TO 2"	ED 10d BOX (3"x0.128"); OR 3" X 0.131" NAILS IG 16D BOX (3-1/2"x0.135"); OR	16" O.C. FACE NAIL	28		4-16D BOX (3-1/2" X 0.135"); OR		
UDS AT INTERSECTING WALL DRNERS (AT BRACED WALL PANELS) UILT-UP HEADER (2" TO 2"				LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16D COMMON (3-1/2" X 0.162"); OR 4-10D BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS	AT EACH JOIST OR R	AFTER, FACE NAIL
PANELS) UILT-UP HEADER (2" TO 2"			29	BRIDGING OR BLOCKING TO	2-10D BOX (3" X 0.128"); OR 2-8D COMMON (2-1/2" X 0.131"; OR 2-3" X	EACH END.	TOE NAIL
	16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL		JOIST	0.131") NAILS		
HEADER WITH $\frac{1}{2}$ " SPACER)		16" O.C. ALONG EACH EDGE FACE NAIL 12" ALONG EACH EDGE FACE NAIL				SPACING OF F	FASTENERS
ITINUOUS HEADER TO STUD	5-8D BOX (2-1/2" X 0.113"); OR	TOENAIL	ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	EDGES (IN)	INTERMEDIATE SUPPORTS (IN)
OP PLATE TO TOP PLATE	16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL	30	3/8" - 1/2"	6d COMMON (2"x0.113") NAILS (SUBFLOOR, WALL) 8d COMMON (2-1/2"x0.131") NAIL (ROOF); OR	6	12
	3" X 0.131" NAILS 8-16D COMMON(3-1/2" X 0.162"); OR	12" O.C. FACE NAIL FACE NAIL ON EACH SIDE OF END JOINT			RSRS-01 (2-38" X 0.113") NAIL (ROOF) 8d COMMON NAIL (2-1/2"x0.131"); OR		
OUBLE TOP PLATE SPLICE	12-16D BOX (3-1/2" X 0.135"); OR 12-10D BOX (3" X 0.128"); OR 12-3" X 0.131" NAILS	(MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)	31	19/32"-1"	RSRS-01 (2-3/8" X 0.113") NAIL (ROOF) 10d COMMON (3"x0.148") NAIL OR	6	12
TTOM PLATE TO JOIST, RIM	M 16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL	32	1-1/8" - 1-1.4"	8D (2-1/2"x0.131") DEFORMED NAIL	6	12
T, BAND JOIST OR BLOCKING T AT BRACED WALL PANELS)		12" O.C. FACE NAIL			OTHER WALL SHEATHING 1-1/2" GALVANIZED ROOFING NAIL, 7/16"		
TTOM PLATE TO JOIST, RIM T, BAND JOIST BLOCKING (AT	M 3-16d BOX NAILS (3-1/2"x0.135") OR	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL	33	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	HEAD DIAMETER, OR 1-1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN	3	6
	4-8D BOX (2-1/2"x0.113") OR 3-16D BOX (3-1/2" x 0.135"); OR 4-8D COMMON (2-1/2" X 0.131"); OR	TOE NAIL	34	25/32" STRUCTURAL CELLULOSTIC FIBERBOARD SHEATHING	1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, OR 1-1/2" LONG 16 GA STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN	3	6
OR BOTTOM PLATE TO STUD	4-10D BOX (3" x 0.128"); OR		35	1/2" GYPSUM SHEATHING	1-1/2" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE "W" OR "S"	7	7
	2-16D COMMON (3-1/2" X 0.162"); OR 3-10D BOX (3" x 0.128"); OR	END NAIL	36	5/8" GYPSUM SHEATHING	1-3/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE "W" OR "S"	7	7
PLATES, LAPS AT CORNERS				WOOD STRUCTURA	,	NDERLAYMENT TO FR	AMING
AND INTERSECTIONS	2-16D COMMON (3-1/2" X 0.162"); OR 3-3" X 0.131" NAILS	FACE NAIL	37		8D COMMON (2-1/2"x0.131") NAIL	6	12
BRACE TO EACH STUD AND PLATE	D 2-8D COMMON (2-1/2" X 0.131"); OR 2-10D BOX (3" X 0.128"); OR	FACE NAIL	38	//8" - 1"	8D COMMON (2-1/2"x0.131") NAIL OR 8D DEFORMED (2-1/2"x0.120") NAIL 10D COMMON (3"x0.148") NAIL OR	6	12
	3-8D BOX (2-1/2" X 0.113"); OR	FACE NAIL	39	1-1/8" - 1-1/4"	8D DEFORMED (2-1/2"x0.120") NAIL	6	12
	3-8D BOX (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.131"); OR	FACE NAIL			TABLE R507.2.1 PLACEMENT OF LAG SCR LEDGERS AND BAND 、		ĸ
	AND INTERSECTIONS RACE TO EACH STUD AN PLATE 6" SHEATHING TO EACH	3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS LATES, LAPS AT CORNERS AND INTERSECTIONS 3-10D BOX (3" X 0.128"); OR 2-16D COMMON (3-1/2" X 0.162"); OR 3-3" X 0.131" NAILS RACE TO EACH STUD AND PLATE 3-8D BOX (2-1/2" X 0.113"); OR 2-10D BOX (3" X 0.128"); OR 2-10D BOX (3" X 0.128"); OR 2-10D BOX (3" X 0.128"); OR 2-10D BOX (2-1/2" X 0.113"); OR 2-10D BOX (3" X 0.128"); OR 3-8D BOX (2-1/2" X 0.113"); OR 3-10D BOX (3" X 0.128"); OR 3 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG <t< td=""><td>3-10D BOX (3" x 0.128"); OR END NAIL 3-3" x 0.131" NAILS 3-10D BOX (3" x 0.128"); OR END NAIL LATES, LAPS AT CORNERS AND INTERSECTIONS 3-10D BOX (3" x 0.128"); OR FACE NAIL 3-3" x 0.131" NAILS 3-8D BOX (2-1/2" x 0.162"); OR FACE NAIL 3-3" x 0.131" NAILS 3-8D BOX (2-1/2" x 0.113"); OR FACE NAIL 2-46D COMMON (2-1/2" x 0.113"); OR 2-8D COMMON (2-1/2" x 0.131"); OR FACE NAIL 2-10D BOX (3" x 0.128"); OR 2-8D COMMON (2-1/2" x 0.131"); OR FACE NAIL 6" SHEATHING TO EACH 3-8D BOX (2-1/2" x 0.113"); OR FACE NAIL 6" SHEATHING TO EACH 3-8D BOX (2-1/2" x 0.113"); OR FACE NAIL 2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG S-8D BOX (2-1/2" x 0.113"); OR FACE NAIL 3-8D BOX (2-1/2" x 0.113"); OR 3-8D BOX (2-1/2" x 0.131"); OR FACE NAIL 3-8D BOX (2-1/2" x 0.113"); OR 3-8D BOX (2-1/2" x 0.131"); OR FACE NAIL 3-40D BOX (3" X 0.128"); OR 3-8D COMMON (2-1/2" x 0.131"); OR FACE NAIL AND WIDER SHEATHING TO UIDER THAN 1" X 8" FACE NAIL WIDER THAN 1" X 8" FACE NAIL FACE NAIL</td><td>3-10D BOX (3" x 0.128"); OR END NAIL 36 3-3" x 0.131" NAILS 3-10D BOX (3" x 0.128"); OR FACE NAIL 36 LATES, LAPS AT CORNERS 3-10D BOX (3" x 0.128"); OR FACE NAIL 37 3-3" x 0.131" NAILS 3-40D COMMON (3-1/2" x 0.162"); OR FACE NAIL 37 3-8D BOX (2-1/2" X 0.113"); OR 2-40D COMMON (2-1/2" x 0.113"); OR FACE NAIL 38 2-40D BOX (3" x 0.128"); OR 2-80D COMMON (2-1/2" x 0.113"); OR FACE NAIL 38 2-10D BOX (3" x 0.128"); OR 2-40D BOX (3" x 0.128"); OR FACE NAIL 39 6" SHEATHING TO EACH 3-80D BOX (2-1/2" x 0.113"); OR FACE NAIL 39 6" SHEATHING TO EACH 2-80D COMMON (2-1/2" x 0.113"); OR FACE NAIL 39 6" SHEATHING TO EACH 3-80D BOX (2-1/2" x 0.113"); OR FACE NAIL 39 6" SHEATHING TO EACH 3-80D BOX (2-1/2" x 0.113"); OR FACE NAIL 39 3-80D COMMON (2-1/2" x 0.113"); OR 3-80D COMMON (2-1/2" x 0.113"); OR 3-40D BOX (3" x 0.128"); OR 3-40D BOX (3" x 0.128"); OR 3-40D BOX (3" x 0.128"); OR 3-10D BOX (3" X 0.12</td><td>3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS END NAIL 3-6 5/8" GYPSUM SHEATHING LATES, LAPS AT CORNERS AND INTERSECTIONS 3-10D BOX (3" x 0.128"); OR 2-16D COMMON (3-1/2" X 0.162"); OR 3-3" x 0.131" NAILS FACE NAIL 3-6 5/8" GYPSUM SHEATHING 2-16D COMMON (3-1/2" X 0.162"); OR 2-16D COMMON (3-1/2" X 0.131"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 2-10D BOX (3" x 0.128"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 3-8D BOX (3" X 0.128"); OR 3-10 BOX (</td><td>3-10D BOX (3" x 0.128"): OR 3-3" x 0.131" NAILS END NAIL 36 56" GYPSUM SHEATHING GALVAN/2D, 1-39% CORG; 1</td><td>3-10D BOX (3* x 0.128*); OR 3-3* x 0.131* NAILS END NAIL 3-10D BOX (3* x 0.128*); 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TABLE R507/2 FASTENER SPACING FOR	A SOUTHERN PINE		LEDGER 2" NOMIN DEAD LOAD = 10 PS		PRUCE-PINE-FIR BA	AND JOIST (DECK LI	VE LOAD = 40PSF,
JOIST SPAN	6' AND LESS	6'1 TO 8'	8'1 TO 10'	10'1 TO 12'	12'1 TO 14'	14'1 TO 16'	16'1 TO 18'
CONNECTION DETAILS			ON CENT	ER SPACING OF FA	STENERS		
1/2" DIAMETER LAG SCREW WITH 15/32" MAX SHEATHING	30	23	18	15	13	11	10
1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING	36	36	34	29	24	21	19
1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING AND 1/2" STACKED WASHERS	36	36	29	24	21	18	16

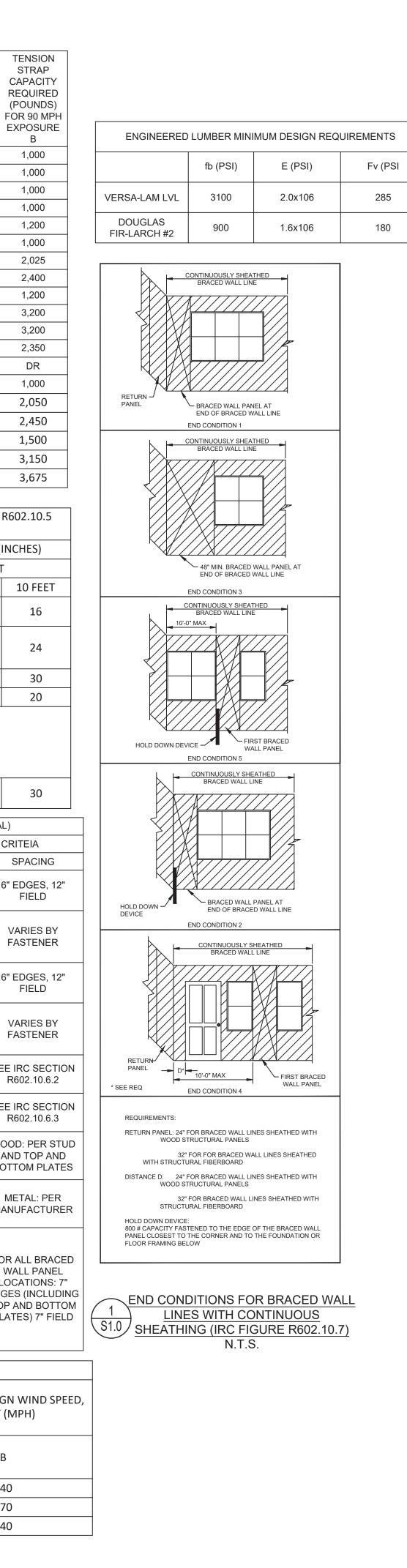
MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE	MAXIMUM PONY WALL HEIGHT (FEET)	MAXIMUM TOTAL WALL HEIGHT (FEET)	MAXIMUM OPENING WIDTH (FEET)	(F (E
2x4 NO 2 GRADE	0	10	18	
			9	
	1	10	16	
			18	
			9	
	2	10	16	
			18	
			9	
	2	12	16	
			18	
			9	
	4	12	16	
			18	
			9	
	2	12	16	
2x6 STUD			18	
GRADE			9	
	4	12	16	
			18	

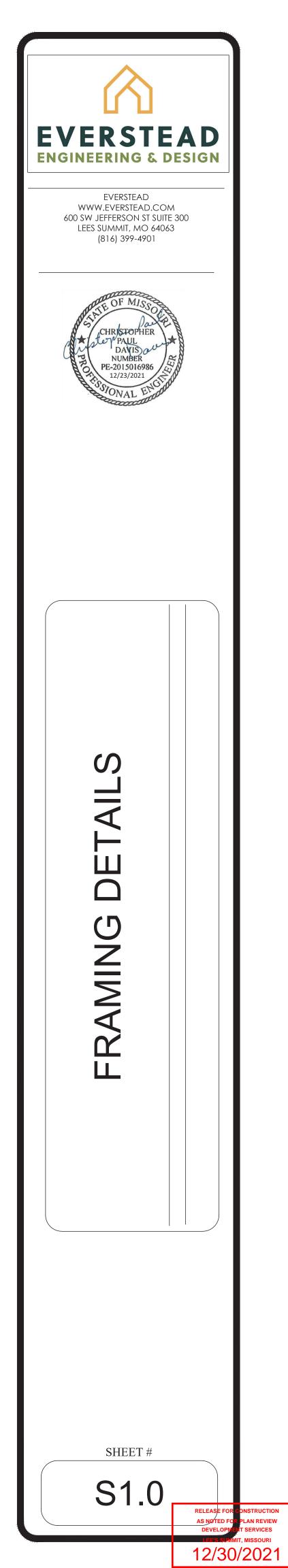
MINIMUM LENGTH OF BRACED WALL PANELS TABLE R((PARTIAL)					
		MINIM	1UM LENGTH (IN	
M	ETHOD		WALL HEIGHT	-	
		8 FEET	9 FEET		
	SUPPORTING ROOF ONLY	16	16		
PFH	SUPPORTING ONE STORY AND ROOF	24	24		
	PFG	24	27		
(CS-PF	16	18		
CS-WSP	ADJACENT CLEAR OPENING HEIGHT (INCHES)				
	LESS THAN OR EQUAL TO 64	24	27		
	BRACING METHO	DS TABLE R6	02.10.4 (PARTIA	L)	

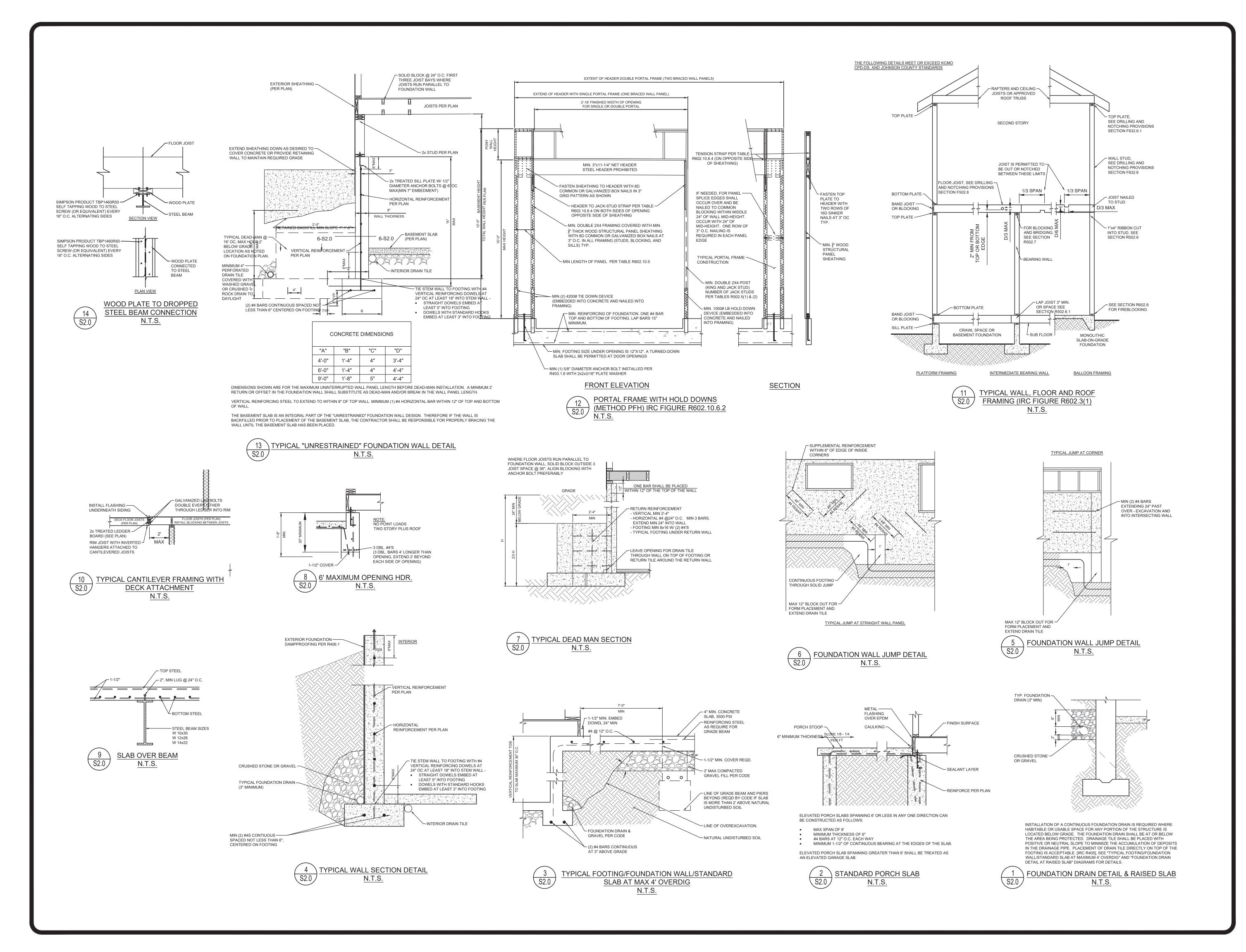
BRACING METHODS TABLE R602.10.4 (PARTIAL)						
METHODS,	MINIMUM	CONNECTION CR				
MATERIAL	THICKNESS	FASTENERS				
WSP - WOOD		EXTERIOR SHEATHING PER TABLE R602.3(3)	6"			
STRUCTURAL PANEL	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	۷ F			
CS-WSP CONTINUOUSLY SHEATHED		EXERIOR SHEATHING PER TABLE R602.3(3)	6"			
WOOD STRUCTURAL PANEL	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	V F			
PFH - PORTAL FRAME WITH HOLD DOWNS	3/8	SEE IRC SECTION R602.10.6.2	SEE R			
PFG - PORTAL FRAME AT GARAGE	3/8	SEE IRC SECTION R602.10.6.3	SEE R			
LIB	1x4 WOOD OR APPROVED METAL STRAPS AT 45 TO 60	WOOD: 2-8d COMMON NAILS OR 3-8d NAILS	WOC AN BOT			
LET-IN-BRACING	DEGREE ANGLES FOR MAX 16" STUD SPACING	METAL STRAP: PER MANUFACTURER	M MAN			
GB-GYPSUM	1/2	NAILS OR SCREWS PER TABLE R602.3(1) FOR EXTERIOR LOCATIONS	FOR W			
BOARD	172	NAILS OR SCREWS PER TABLE R702.3.5 FOR INTERIOR LOCATIONS	EDGE TOP PLA			

TABLE R507.	TABLE R507.2.1 PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (INCHES)					
MINIMUM END						
	TOP EDGE	BOTTOM EDGE	ENDS	ROW SPACING		
LEDGER	2	1/4	2	1-5/8		
BAND JOIST	3/4	2	2	1-5/8		

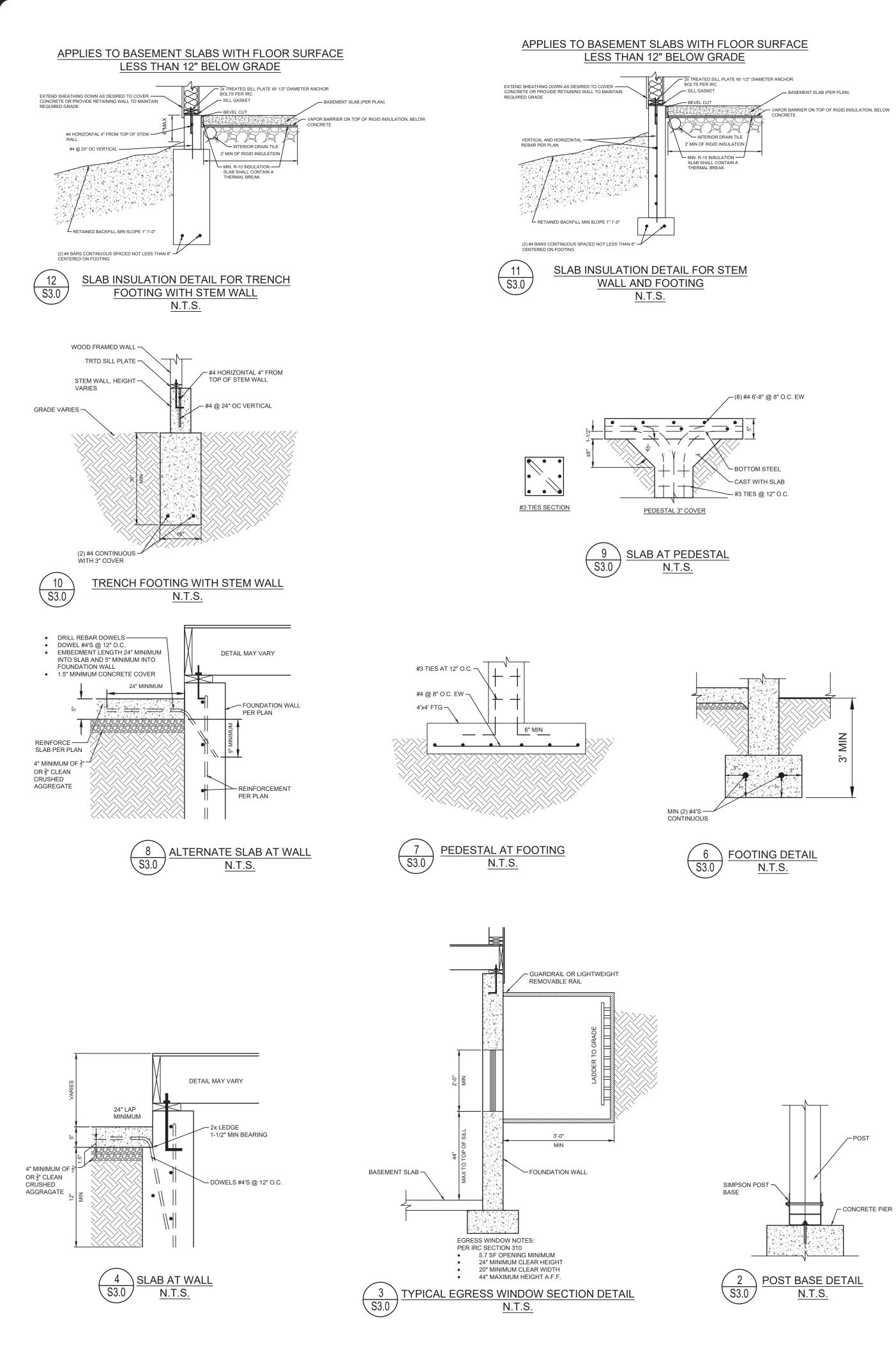
	REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES IRC TABLE 602.3(3) (PARTIAL)							
MINIMUM NAIL		MINIMUM WOOD STRUCTURAL	MINIMUM NOMINAL PANEL	MAX WALL STUD	PANEL NAIL SPACING		ULTIMATE DESIGN V V ULT (MP	
	SIZE	PENETRATION (IN)	PANEL SPAN RATING	THICKNESS (IN)	SPACING	EDGES (IN O.C.)	FIELD (IN O.C.)	В
ľ	6d COMMON	1.5	24/0	3/8	16	6	12	140
	8d COMMON	1.75	24/16	7/16	16	6	12	170
		1.75	24/10	//10	24	6	12	140

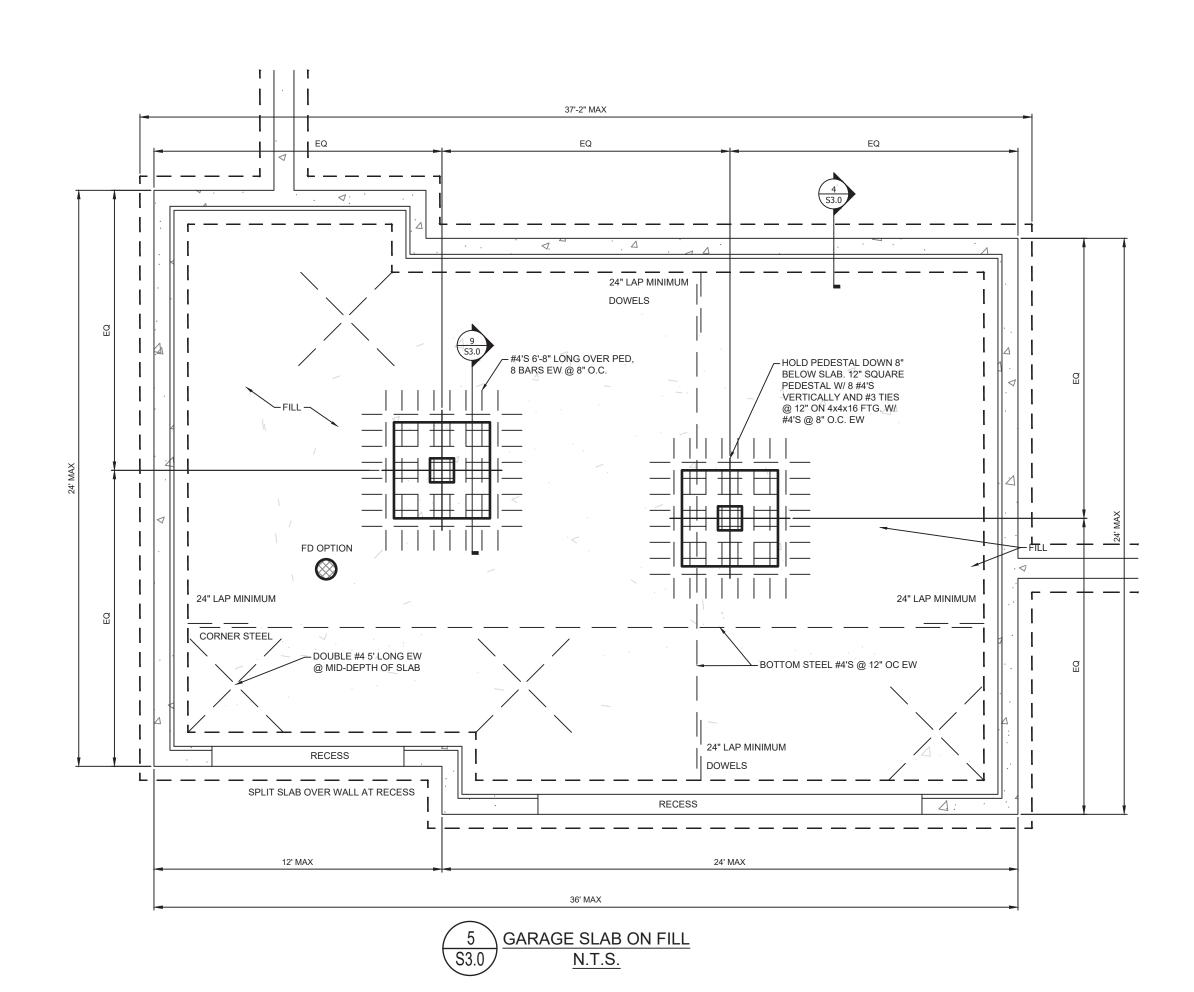


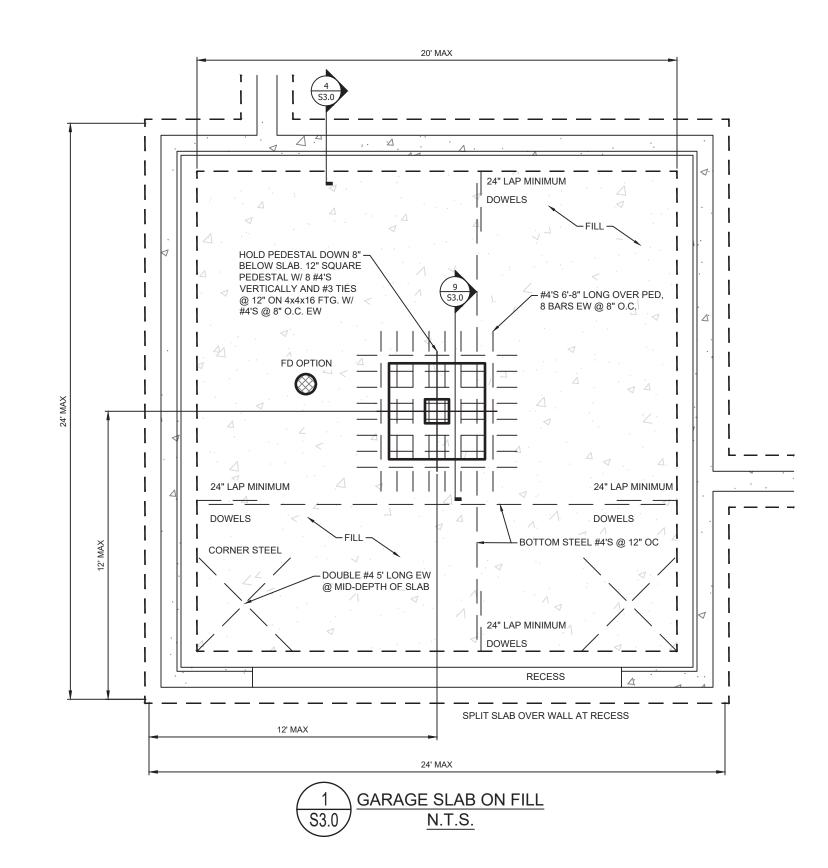


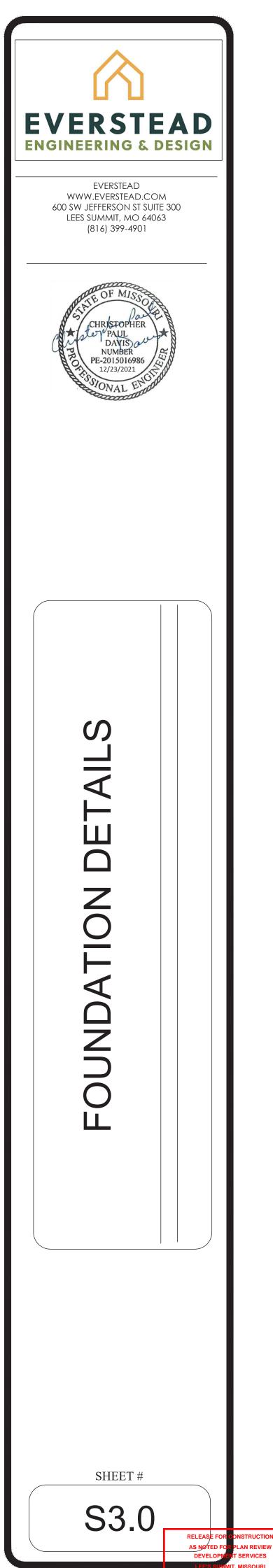












12/30/2021

HELIX REQUIREMENTS:

- FOUNDATION WALL SHALL NOT EXCEED 9' HEIGHT.
- DEAD MAN SHALL BE A MAXIMUM 3'8" FROM TOP OF FOUNDATION WALL ELSE HELIX NOT PERMITTED.

ALL CONCRETE SHALL BE REINFORCED WITH HELIX MICRO REBAR ALONG WITH ANY ADDITIONAL REBAR AS NOTED:

- 9.0 LB/CUBIC YARD DOSAGE OF HELIX 5-25.
- VERIFY DOSAGE AT FORM INSPECTION.
- SEE MIXING REQUIREMENTS ON THIS PAGE. MINIMUM 3000 PSI FOOTING COMPRESSIVE STRENGTH
- MINIMUM 3000 PSI WALL COMPRESSIVE CONCRETE STRENGTH.
- AIR ENTRAINED BETWEEN 5-7% OF CONCRETE VOLUME.
- GRADE 60 REINFORCING STEEL UNLESS OTHERWISE NOTED.
- LAP SPLICES 24" MINIMUM. ASSUMED 1500 PSF SOIL BEARING.
- WALL SHALL BE BACK-FILLED WITH CLEAN, LEAN CLAY, OR BETTER, LOW VOLUME CHANGE MATERIAL. ON-SITE MATERIAL MAY BE USED IF DEEMED ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.

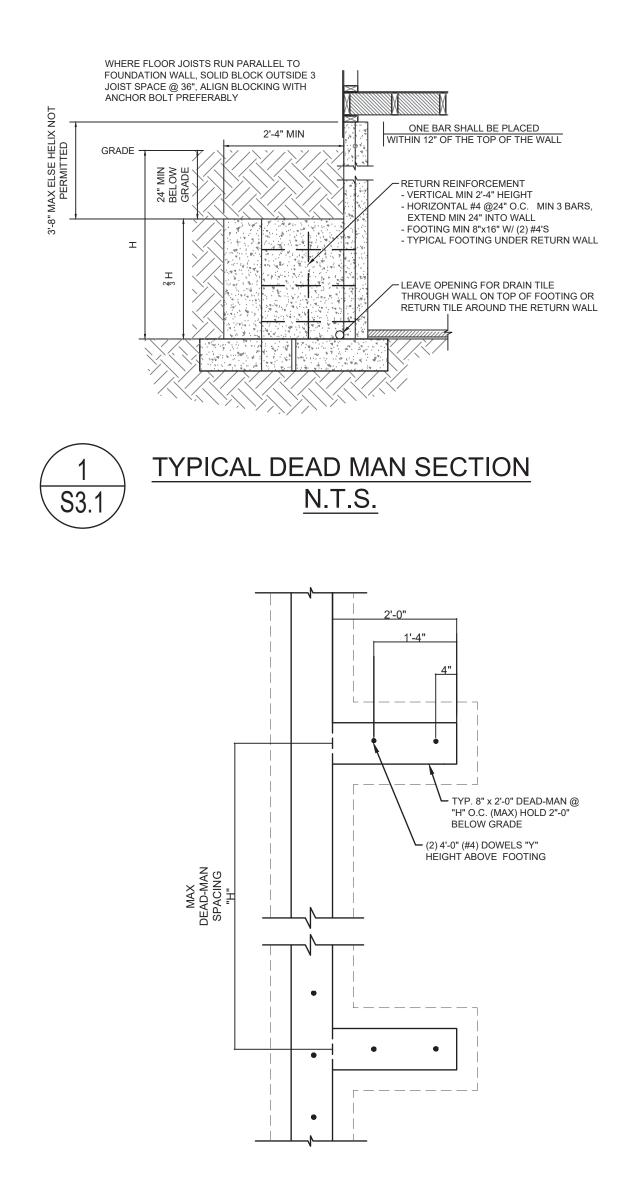
HELIX ALTERNATE DESIGN NOT VALID IF ANY ONE OF THE FOLLOWING CONDITIONS ARE MET:

 NON-UNIFORM FOOTING SUPPORT (IE. CAST IN PLACE PIERS, PUSH PILES). • DAYLIGHT WALLS EXCEEDING 6' TALL FOR A LENGTH GREATER THAN 6'.

HELIX DOSING INSTRUCTIONS:

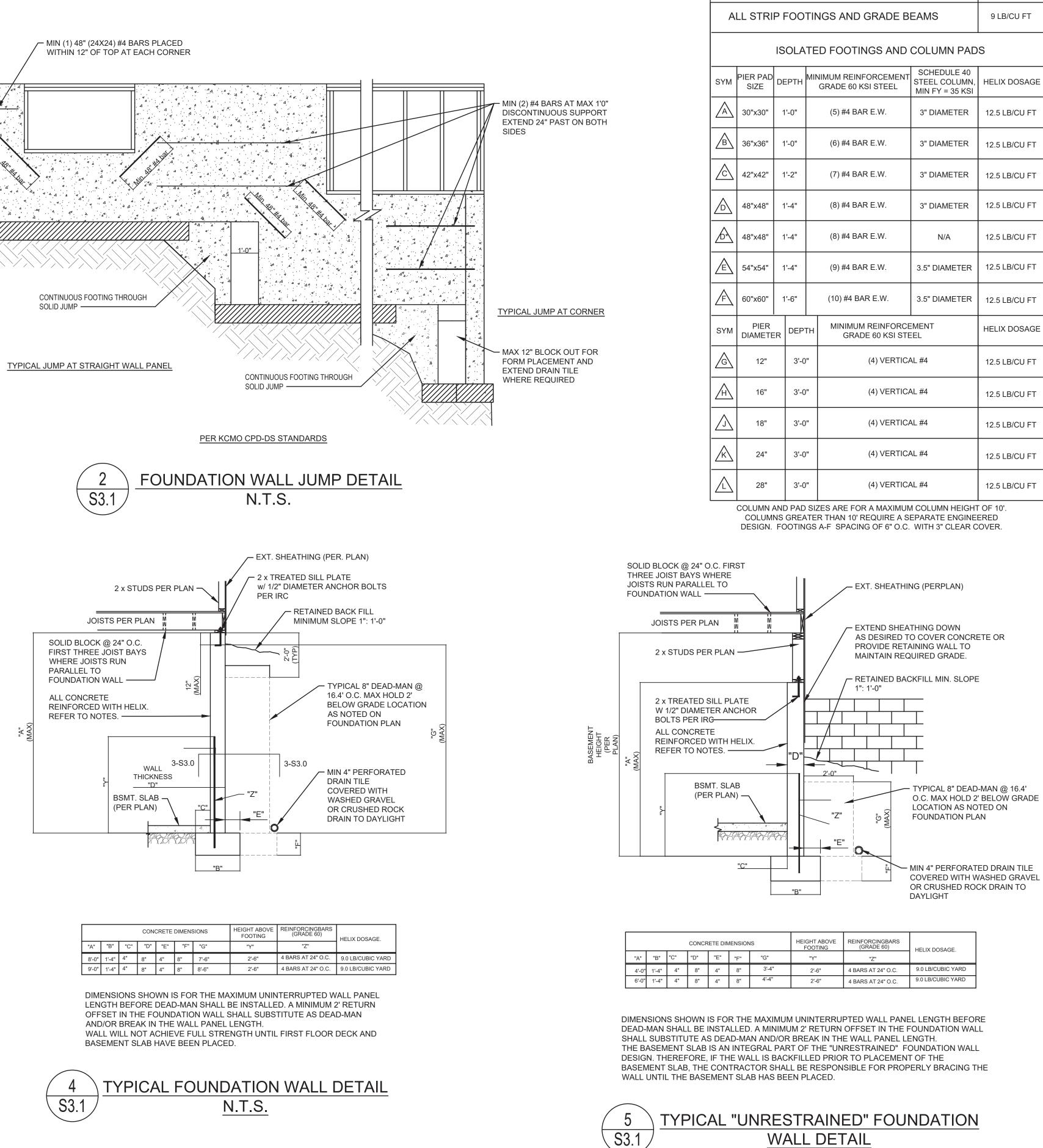
MIXING SHOULD BE DONE ACCORDANCE WITH ASTM C94 AND THE MIXING INSTRUCTIONS BELOW. THE DOSAGES OF HELIX ADDED TO THE MIX SHOULD BE NOTED ON THE BATCH DOCUMENTATION IN ACCORDANCE WITH UNIFORM EVALUATION SERVICE ER 279 SECTION 5.15. VERIFIED USING PROCEDURE IN ER 279 APPENDIX A.

A SLUMP OF 125 MM OR 5" OR HIGHER WILL FACILITATE STRIKE OFF. A SLUMP OF LESS THAN 4" IS NOT RECOMMENDED AS THIS WILL PREVENT SURFACE SEGREGATION OF THE CEMENT AND FINES FROM THE AGGREGATE AND HELIX. SLUMP SHOULD BE MEASURED ON THE INITIAL LOAD AND ADJUSTMENTS MADE WITH A WATER REDUCER OR PLASTICIZER (NOT WATER).









	I	HE	ELIX	FO	OTING TABLE		HELIX DOSAGE		
7	LL STRI	ΡI	F00 ⁻	TIN	NGS AND GRADE BI	EAMS	9 LB/CU FT		
		IS	OLA	TE	D FOOTINGS AND	COLUMN PAD	S		
	PIER PAD SIZE	DE	EPTH		NIMUM REINFORCEMENT GRADE 60 KSI STEEL	SCHEDULE 40 STEEL COLUMN, MIN FY = 35 KSI	HELIX DOSAGE		
7	30"x30"	1	'-0"		(5) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT		
	36"x36"	1	'-0"		(6) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT		
	42"x42"	1	1'-2"		1'-2"		(7) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT
	48"x48"	1	1'-4"		(8) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT		
	48"x48"	3" 1'-4			(8) #4 BAR E.W.	N/A	12.5 LB/CU FT		
	54"x54"	' 1'-4"			(9) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT		
	60"x60" 1		'-6"		(10) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT		
	PIER DIAMETER		DEP ⁻	тн	MINIMUM REINFORCE GRADE 60 KSI STE		HELIX DOSAGE		
	12"		3'-0	" (4) VERTICA		NL #4	12.5 LB/CU FT		
	16"		3'-0)"	(4) VERTICAL #4		12.5 LB/CU FT		
	18"		3'-0"		(4) VERTICA	12.5 LB/CU FT			
	24" 3		3'-0)"	(4) VERTICA	12.5 LB/CU FT			
	28" 3		3'-0)"	(4) VERTICA	12.5 LB/CU FT			

NSION	IS	HEIGHT ABOVE REINFORCINGBARS FOOTING (GRADE 60)		HELIX DOSAGE.	
"F"	"G"	"Y"	"Z"	HELIX BOOKSE.	
8"	3'-4"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD	
8"	4'-4"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD	

WALL DETAIL N.T.S

EVERSTEAD ENGINEERING & DESIG

everstead www.everstead.com 600 SW JEFFERSON ST SUITE 300 LEES SUMMIT, MO 64063 (816) 399-4901



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12/30/2021

REVIEW