

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

#### ELEVATIONS:

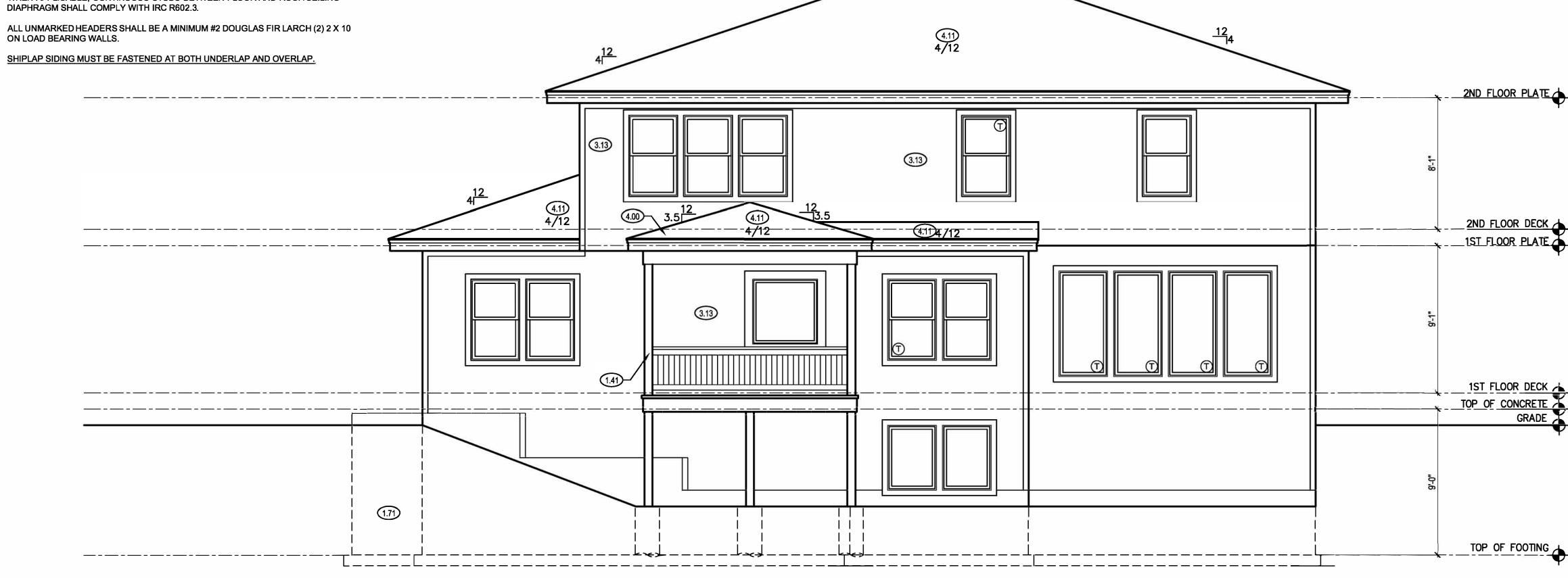
GARAGE DOORS SHALL MEET DASMA FOR ULTIMATE DESIGN WIND SPEED OF 115 MPH REQUIREMENTS. WALL FRAMING SHALL BE DOUGLAS FIR LARCH #2 UNLESS OTHERWISE NOTED.

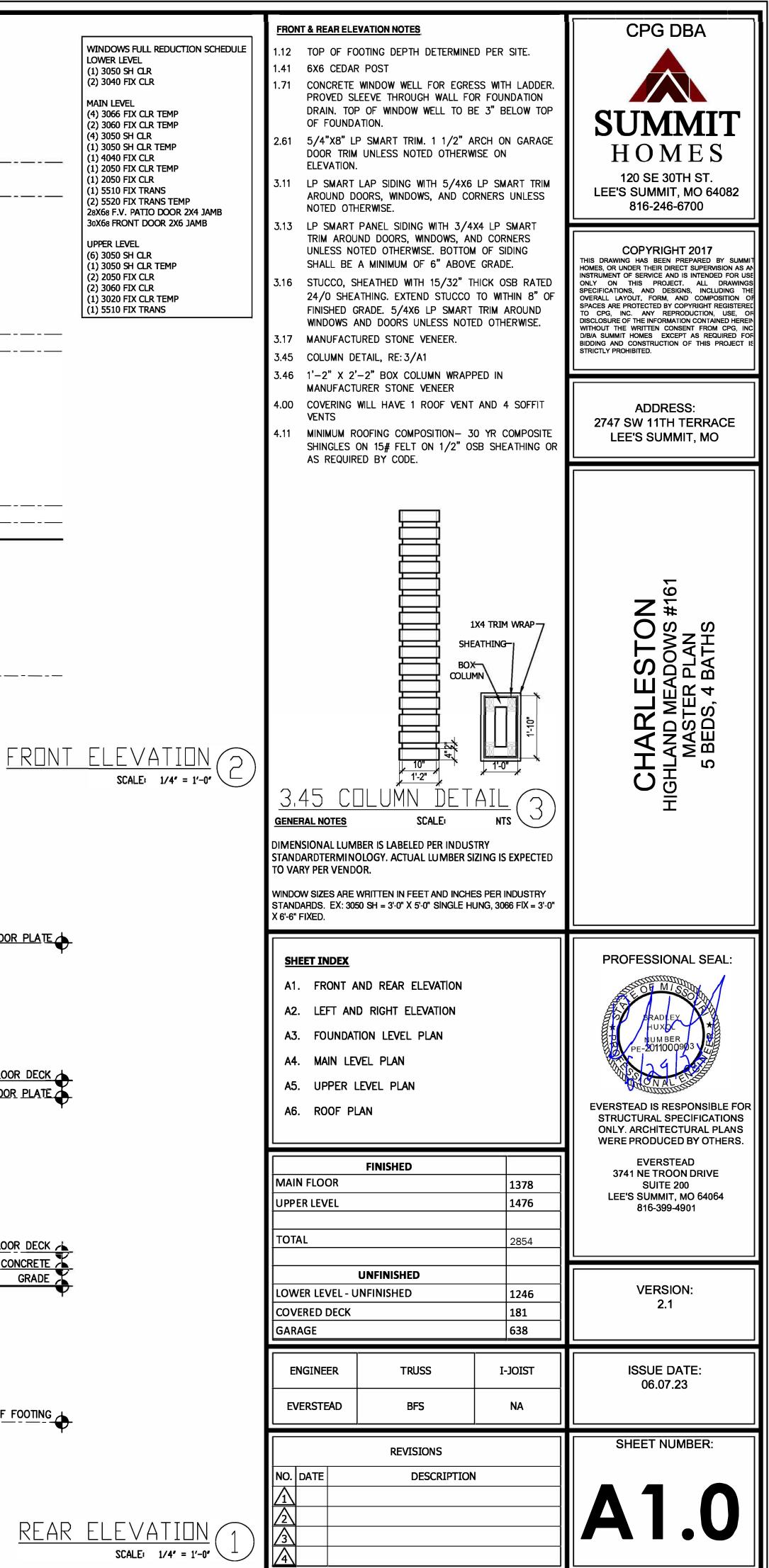
IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN TEN FEET IN LENGTH SHALL BE SPACED NOT MORE THAN IS SPECIFIED BY IRC TABLE R602.3(5) FOR CORRESPONDING STUD SIZE.

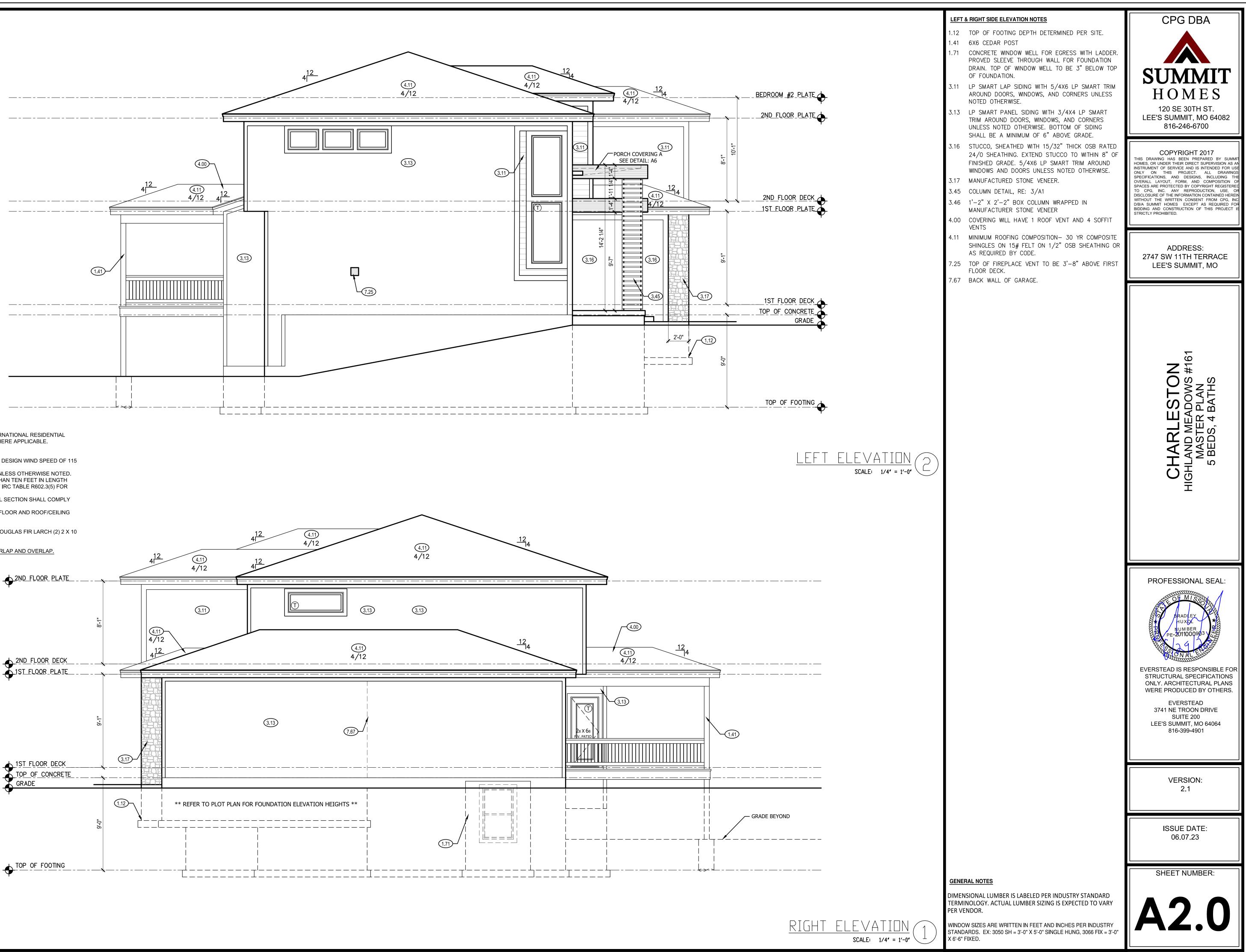
WATER-RESISTIVE EXTERIOR WALL BARRIER IN WALL SECTION SHALL COMPLY WITH IRC R703.2. WHEN APPLICABLE, CONTINUOUS STUDS BETWEEN FLOOR AND ROOF/CEILING

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10

SHIPLAP SIDING MUST BE FASTENED AT BOTH UNDERLAP AND OVERLAP.







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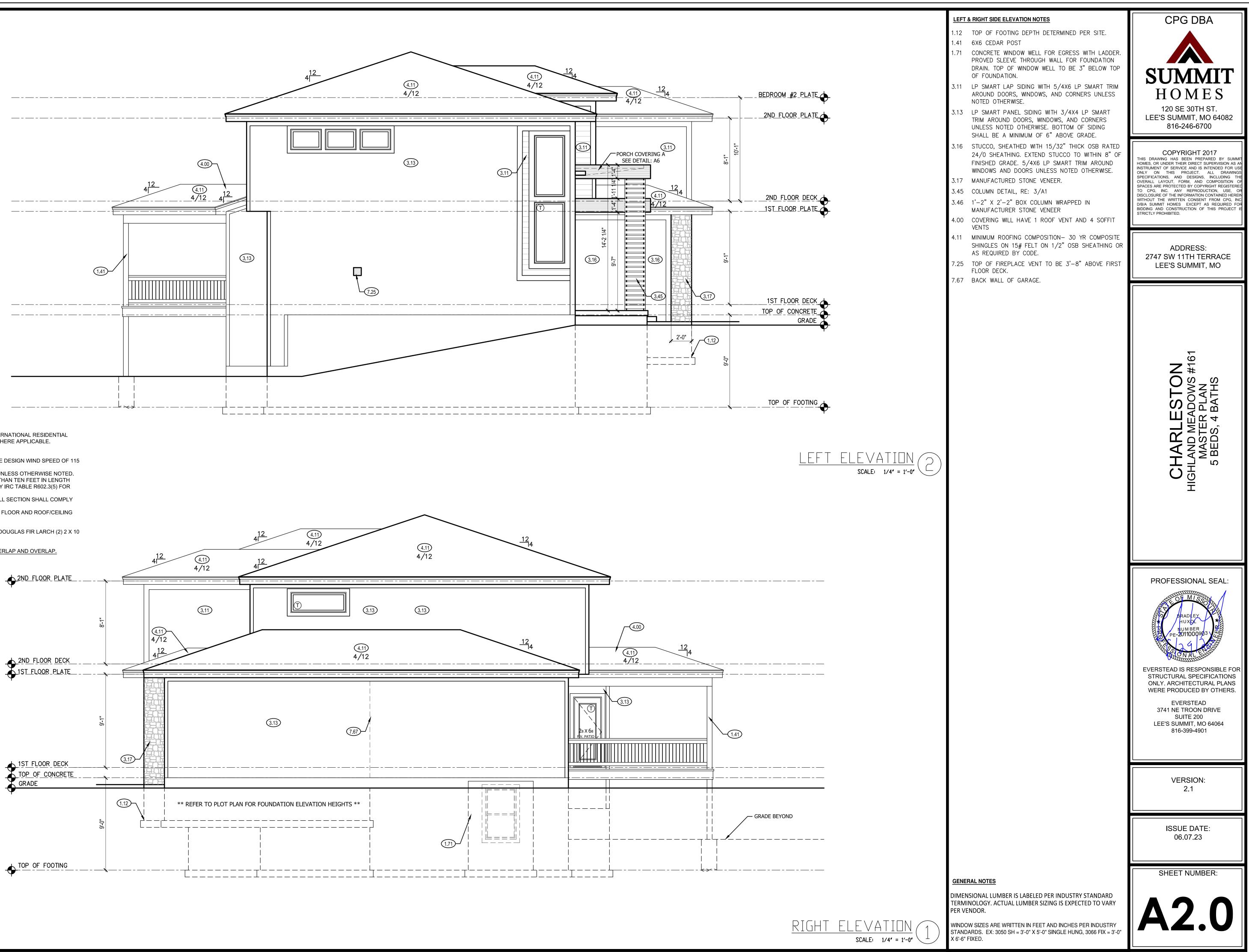
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WALL FRAMING SHALL BE DOUGLAS FIR LARCH #2 UNLESS OTHERWISE NOTED. IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN TEN FEET IN LENGTH SHALL BE SPACED NOT MORE THAN IS SPECIFIED BY IRC TABLE R602.3(5) FOR CORRESPONDING STUD SIZE.

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.



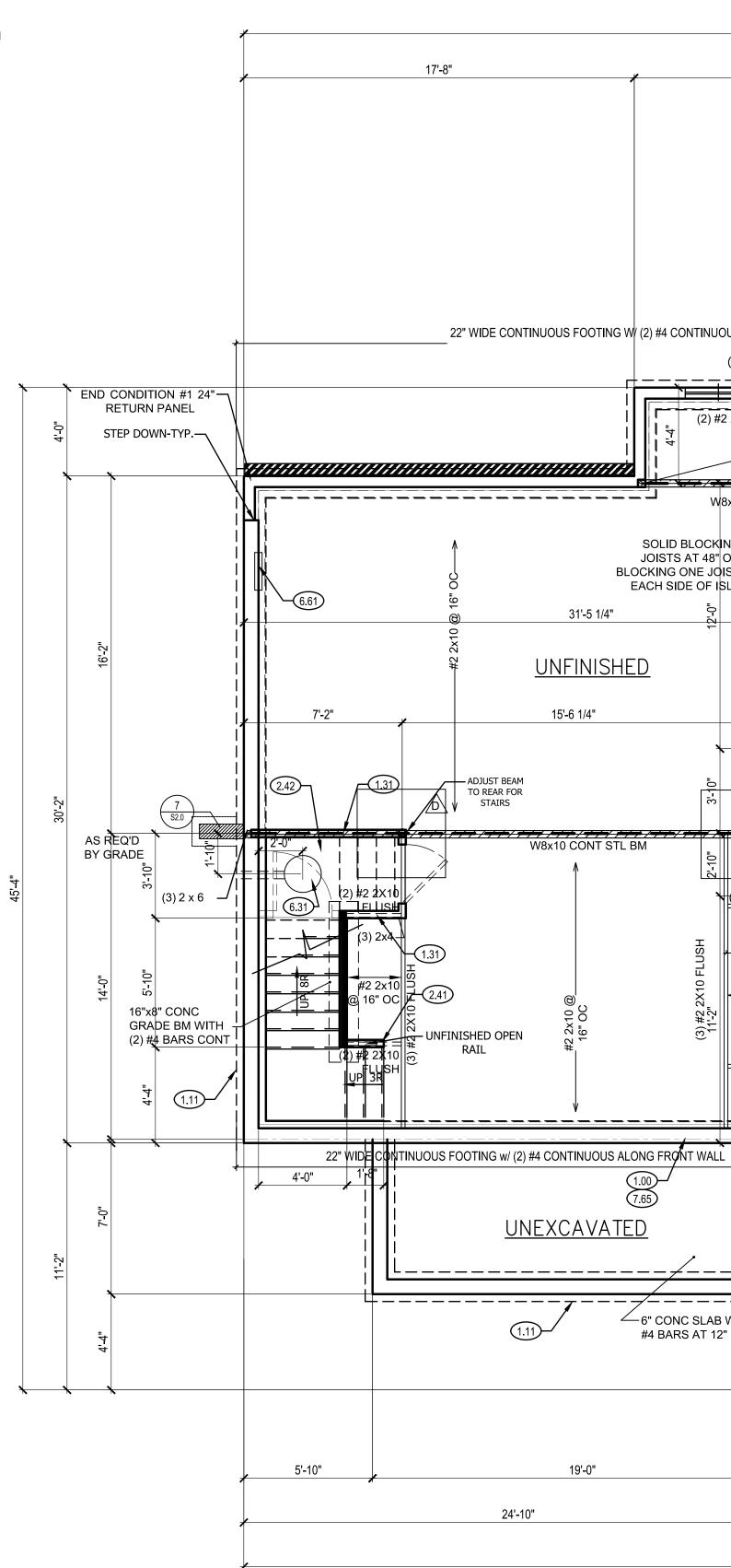
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FOUNDATION NOTES:ALL FOOTINGS MEET OR EXCEED MINIMUM FROST DEPTH OF 36".

- 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".
- 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.

IS	SOLATE	D FO		INC	iS	AND	COLL	JMN PADS
SYM	PIER PAD SIZE	DEPTH	RE		IRCE	NIMUM Iment I Sti	GRADE	SCHEDULE 40 STEEL COLUMN, MIN FY = 35 KSI
$\bigcirc$	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
Æ	54″×54″	1'-4"		(9)	#4	BAR	E.W.	3″ DIAMETER
Æ	60″×60″	1′-6″		(10)	#4	BAR	E.W.	3.5" DIAMETER
ANY SIZE FOOTING WITH AN (*) NO COLUMN NEEDED								
ISOLATED FOOTINGS AND COLUMN PADS								
SYM	PIER DIAMETE	RDEP	тн	MINI	MUM		NFORCEN Ksi ste	1ENT GRADE 40 EL
G	12″	3'-	0″			(4)	VERTIC	AL #4
Â	16″	3'-	0″			(4)	VERTIC	AL #4
$\bigtriangleup$	18″	3'-	0″			(4)	VERTIC	AL #4
Ŕ	24″	3'-	0″			(4)	VERTIC	AL #4
$\triangle$	28″	3'-	0″			(4)	VERTIC	AL #4
COLUN	IN AND PAI	) SIZES	AR	E FOF	RAN	1AXIM	UM COLU	MN HEIGHT OF 10'.

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.



— FULL HEIGHT 6x6 CEDAR POST ON 13'-0" SIMPSON ABU66 POST 6'-6" (2) #2 2X10 TRTD **/** (2) #2 2X10 TRTD BASE, TYP 13' X 14' COVERED DECK ll₽ ABOVE 20 83 22" WIDE CONTINUOUS FOOTING ₩ (2) #4 CONTINUOUS ALONG REAR WALL (2) 3040 FIX \_ \_ \_ \_ \_ \_ @ <u>8' H. \_ \_ \_</u> -END CONDITION #1 24" / RETURN PANEL
 4'-4" \_\_\_\_ (2) #2 2X10 CONT. (1.11)--STEP DOWN-TYP. JJ-STEP DOWN-TYP. W8x10 STL BM  $\mathbf{L} = = = =$ -(1.71) SOLID BLOCKING BETWEEN-JOISTS AT 48"OC - EXTEND BLOCKING ONE JOIST BAY PAST EACH SIDE OF ISLAND ABOVE 31'-5 1/4" 7'-0"| 7'-0 1/4" र र 5.51 UNFINISHED DBL FOR ⊬⊣ — — — — — — — — <del>(3)</del> 2<sup>J</sup>x 6 12'-5" 15'-6 1/4" 10 3/4/ \_11'-0"\_\_ W8x10 /ĆONT STL BM ╈<del>╵╤╤╎╤╤╷╤╤╷╪╤╷╤╤╷╤╤╷</del>╉┲ -1.11 --(16.21)) è∽n∣ ×О  $\sim$ (162) <del>+++/++/+++/+++</del>/++++ //\*/\*/0 W8x10 CONT STL BM LOCATE UNDE <mark>∖\|(2) #2 2</mark>¥1 8" x 9'-0" CONC. WALL w/ ; 6.62 1.01) 18" O.C. HORIZONTAL AN VERTICAL PER S2.0 ON 16" (#2 2x1 FTG. WITH (2) #4 BA @ 16" Ø 22" WIDE CONTINUOUS FOOTING w/ (2) #4 CONTINUOUS ALONG REAR GARAGE WALL (3) #2 : 11'-2" (2) #**2**2X1 -(1.01) 7.65 9'-10 1/4" 1.00 /-- 8" x 4'-0" CONC. WALL w/ #4 <u>UNEXCAVATED</u> AT 18" O.C. HORIZONTAL AN <u>UNEXCAVATED</u> O.C. VERTICAL PER S2.0 ON ことの Selen TO PLOT PLAN FOR FOUNDATION ELEVATION また Selent Selen 8" CONC. FTG. w/ (2) #4  $\left(\begin{array}{c} 5\\ S3.0 \end{array}\right)$ -(1.21) \_\_\_/\_\_\_\_ REF. SHEET S3.0 FOR ←6" CONC SLAB WITH STRUCTURAL GARAGE SLAB -(1.21) DETAILS \_\_\_\_ #4 BARS AT 12" OC EW \_\_\_\_\_ \_\_\_\_\_ -----\_\_\_\_ ANCHOR PER METHOD PFH METHOD PFH 16'-4" 19'-0" 2'-1" 2'-1" 8'-4" 9'-8" 20'-6" 55'-0"

26'-4"

55'-0"

11'-0"

WALL TRANSITIONING FROM LESS TH DOWNS: A DEAD MAN IS REQUIRED WITHIN 8' THAN 5' TALL TO MORE THAN 5' TALL

GARAGE WALL, 24" RETURN ON FOUN DEAD MEN ARE NOT REQUIRED ON E WALLS THAT ARE 5' OR LESS.

DEAD MEN SPACING: ALL DEAD MEN SHALL BE SPACED NO

	FOUNDATION PLAN NOTES	CPG DBA
O MORE THAN 16' FROM EGRESS WELL, REAR NDATION WALL OR ANOTHER DEAD MAN. EXTERIOR GARAGE WALLS OR FOUNDATION	<ul> <li>1.01 HOLD SILL PLATE BACK 4"</li> <li>1.11 CONTINUOUS CONCRETE FOOTING</li> <li>1.21 RECESS TOP OF FOUNDATION WALL</li> <li>1.31 2X4 STUD WALL WITH TREATED SILL PLATE</li> </ul>	
HAN 5' TALL TO MORE THAN 5' TALL WITH STEP OF STEP DOWN (TRANSITIONING FROM LESS WALL LOCATION) ON WALL 5' TALL OR MORE	<ul> <li>1.31 2X4 STUD WALL WITH TREATED SILL PLATE</li> <li>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 OF FOUNDATION.</li> </ul>	<b>SUMMIT</b> HOMES
	<ul> <li>2.32 INSULATE CANTILEVER AS REQUIRED PRIOR TO BLOCKING</li> <li>2.34 PROVIDE ADDITIONAL BRACING FOR ISLAND ABOVE.</li> <li>2.41 CURB STAIR SYSTEM WITH OPEN HANDRAILS</li> </ul>	120 SE 30TH ST. LEE'S SUMMIT, MO 64082 816-246-6700
	<ul> <li>2.42 FIRE RATED SHEETROCK UNDER STAIRS</li> <li>5.51 DRAIN LINE ONLY FOR FUTURE USE. LOCATION TO BE MARKED WITH REBAR AND CUT FLUSH TO FLOOR FINISH.</li> <li>5.52 TOILET FLANGE ABOVE. HEADER ACROSS JOISTS AS NEEDED.</li> <li>6.11 DIRECT FURNACE. FUEL BURNING APPLIANCES SHALL BE DIRECT VENTED TO EXTERIOR FOR COMBUSTION AIR.</li> <li>6.21 HOT WATER HEATER WITH THERMAL EXPANSION</li> </ul>	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 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/B/A SUMMIT HOMES EXCEPT AS REQUIRED FOR BIDDING AND CONSTRUCTION OF THIS PROJECT IS STRICTLY PROHIBITED.
	<ul> <li>CONTROL DEVICE</li> <li>6.31 SUMP PIT AND PUMP. PROVIDE ELECTRICAL GFCI PROTECTION. PROVIDE SLEEVE THROUGH FOOTING.</li> <li>6.41 HVAC CHASE ABOVE</li> <li>6.61 200 AMP ELECTRICAL PANEL. LOCATION TO BE DETERMINED ON SITE.</li> <li>6.62 UFER GROUND- VERIFY LOCATION WITH PROJECT</li> </ul>	ADDRESS: 2747 SW 11TH TERRACE LEE'S SUMMIT, MO
	<ul><li>7.65 LINE OF FLOOR ABOVE</li></ul>	
BWL 1		<b>RLESTON</b> MEADOWS #161 TER PLAN S, 4 BATHS
45-4"		CHAR HIGHLAND I MAST 5 BEDS
44 BARS AT ND 12" O.C. x 8" CONC. ARS CONT. BARS ND 36" N 16" x BARS CONT.		PROFESSIONAL SEAL:         Image: Constraint of the second secon
	GENERAL NOTES BACK WATER VALVES REQUIRED ON ALL BASEMENT PLUMBING FIXTURES. PROVIDE MEANS OF CONTROLLING PRESSURE CAUSED BY THERMAL EXPANSION.	VERSION: 2.1
	ALL SILLS & SLEEPERS SUPPORTED ON CONCRETE OR MASONRY SHALL BE OF DECAY-RESISTANT MATERIALS. DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.	ISSUE DATE: 06.07.23
	ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" O.C. SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL	SHEET NUMBER:
	PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS. 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.	<b>A3.0</b>

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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 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS
   (UNLESS OTHERWISE NOTED).
- <u>ALL WALLS 12' AND OVER SHALL BE DOUGLAS FIR #2</u> (M-12) LUMBER 2x6 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).
- EXTERIOR WALL SHEATHING SHALL BE AS FOLLOWS:
- $\frac{3}{8}$ " THICK OSB FOR METHODS: WSP, CS-WSP AND PFH •  $\frac{7}{16}$ " 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 <sup>3</sup>/<sub>8</sub>" THICK OSB. OSB MAY BE OMITTED UNDERNEATH 7/16" GROOVED PANEL SIDING IN AREAS REQUIRING <sup>3</sup>/<sub>8</sub>" THICK OSB.
- INSTALL FASTENERS AND NAILING PATTERN PER 2018
   IRC SECTION R602.10.

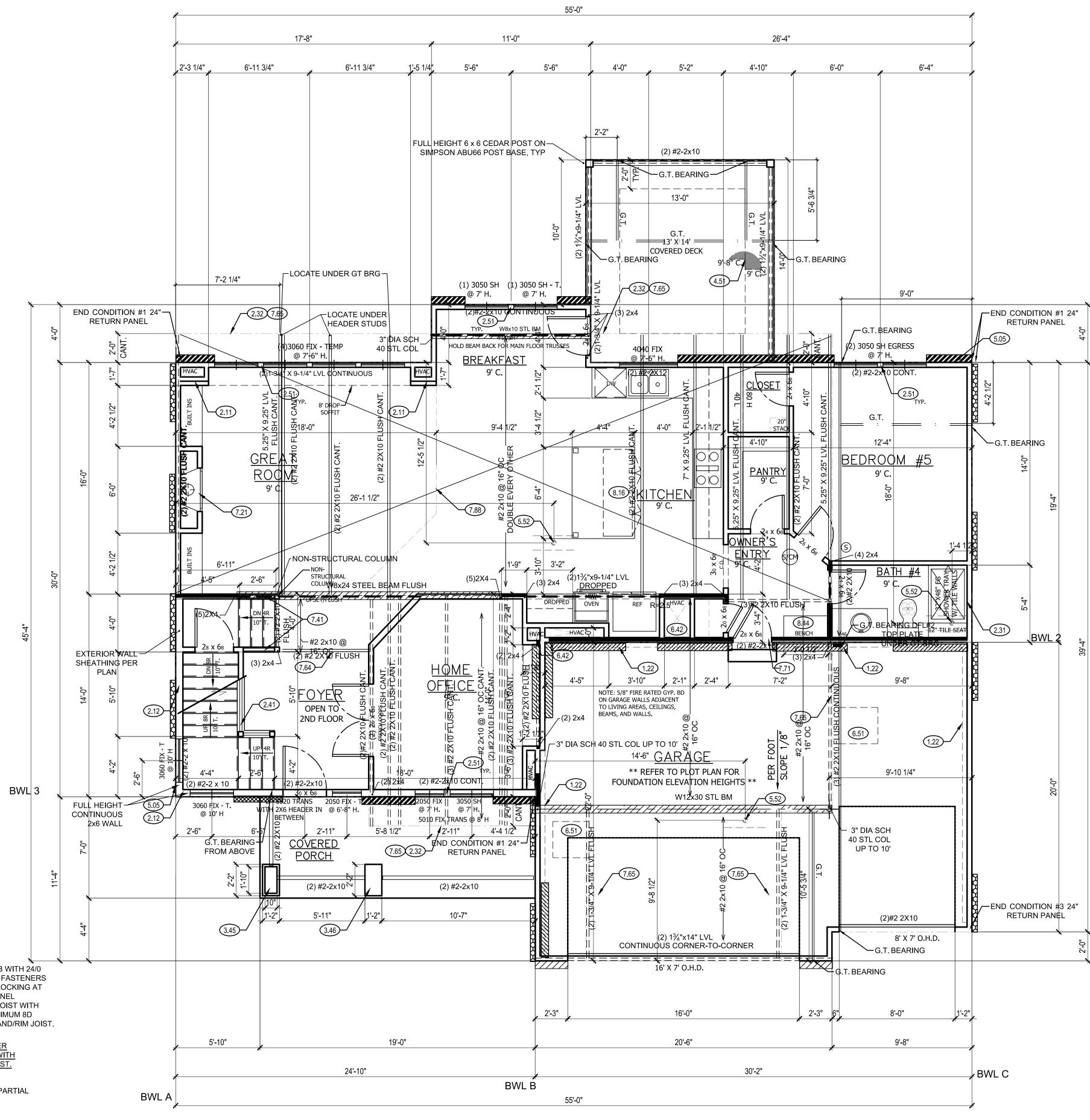
### GIRDER TRUSS BEARING:

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 OTHERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN TO FOUNDATION OR LOAD SUPPORTING MEMBER.

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

LVL'S SHALL BE: BOISE CASCADE VERSA-LAM 3100 FB PROVIDE FULL BEARING FOR DOUBLE, TRIPLE JOISTS, LVL'S AND STEEL BEAMS.

	IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL)									
CLIMATE ZONE	FENESTRATION U-FACTOR <sup>⁵</sup>	SKYLIGHT <sup>⁵</sup> U-FACTOR	GLAZED FENESTRATION SHGC <sup>D, 0</sup>	CEILING R-∨ALUE	WOOD FRAME WALL R-VALUE		FLOOR R-VALUE	BASEMENT <sup>°</sup> WALL R-VALUE	SLAB R-VALUE	CRAWL SPACE WALL R-VALUE
4 EXCEPT MARINE	.32	.55	.40	49	20 DR 13+5	8/13	19	10/13	10, 2 FT	10/13



BRACING METHODS

EXTERIOR WALL BRACING 3/8" PANEL THICKNESS OSB WITH 24/0 STRUCTURAL PANEL SPAN RATING. 1-3/8" MIN PEN, 8d FASTENERS AT 6" FOR PANEL EDGES AND 12" IN FIELD. INSTALL BLOCKING AT TOP AND BASE OF WINDOWS. WOOD STRUCTURAL PANEL SHEATHING CONTINUOUS OVER BAND JOIST OR RIM JOIST WITH MINIMUM LAP OF 9-1/4". ATTACH SHEATHING WITH MINIMUM 8D COMMON NAILS AT 3" O.C. AT TOP AND BOTTOM OF BAND/RIM JOIST.

FOR CS-PF ABOVE: WOOD STRUCTURAL PANEL SHEATHING CONTINUOUS OVER BAND JOIST OR RIM JOIST WITH MINIMUM LAP OF 9-1/4". ATTACH SHEATHING WITH MINIMUM 8D COMMON NAILS AT 3" O.C. AT TOP AND BOTTOM OF BAND/RIM JOIST.

EXTERIOR BRACING CS-WSP PER IRC R602.10 EXTERIOR BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL PANELS PER IRC R602.10.5.2)

PANELS PER IRC R602.10.5.2) INTERIOR BRACING LIB PER IRC R602.10 MINIMUM LIB LENGTH PER 2018 IRC TABLE R602.10.5:

55" - 8' TALL WALL HEIGHT 62" - 9' TALL WALL HEIGHT

69" - 10' TALL WALL HEIGHT

EXTERIOR BRACING PFH (SEE DETAILS) PER IRC R602.10.5

	<ul> <li>MAIN FLOOR PLAN NOTES</li> <li>1.22 EXPOSED TOP OF FOUNDATION WALL.</li> <li>2.11 DOUBLE 2X4 STUD WALL</li> <li>2.12 2X6 STUD WALL</li> <li>2.31 SIX SIDED TUB ASSEMBLY INCLUDING THERMOPLY ON EXTERIOR WALL TO 2" ABOVE TOP OF TUB DECK OR TUB/SHOWER UNIT</li> <li>2.32 INSULATE CANTILEVER AS REQUIRED PRIOR TO BLOCKING</li> <li>2.41 CURB STAIR SYSTEM</li> <li>2.51 3 STUDS BETWEEN WINDOW UNITS</li> <li>3.45 COLUMN DETAIL, RE: 3/A1</li> <li>3.46 1'-2" X 2'-2" BOX COLUMN WRAPPED IN MANUFACTURER STONE VENEER</li> <li>4.51 SINGLE BOX VAULT</li> <li>5.05 HOSE BIBB</li> <li>5.52 TOILET FLANGE ABOVE. HEADER ACROSS JOISTS AS NEEDED.</li> </ul>	CPG DBAImage: Constraint of the project of the
	<ul> <li>6.42 HVAC FLOOR OPENING. HEADER OFF FLOOR JOISTS AS REQUIRED. BUMP TRUSSES AS NECESSARY FOR HVAC ACCESS.</li> <li>6.51 1'-10"X3'-0" MINIMUM ATTIC ACCESS WITH 3/4" BACKER BOARD AND 2 LATCHES. BUMP TRUSSES FOR ATTIC ACCESS.</li> <li>7.21 DIRECT VENT FIREPLACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FIREPLACE PLATFORM DIMENSIONS 7 <sup>3</sup>/<sub>4</sub>" TALL, 37" WIDE, 16" DEEP. INSTALL INSULATION AND AIR BARRIER BEHIND PLATFORM.</li> </ul>	DISCLOSURE OF THE INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN CONSENT FROM CPG, INC D/B/A SUMMIT HOMES EXCEPT AS REQUIRED FOR BIDDING AND CONSTRUCTION OF THIS PROJECT IS STRICTLY PROHIBITED. ADDRESS: 2747 SW 11TH TERRACE LEE'S SUMMIT, MO
42-4"	<ul> <li>7.41 OPEN HANDRAILS</li> <li>7.64 LINE OF BALCONY ABOVE</li> <li>7.65 LINE OF FLOOR ABOVE</li> <li>7.71 20 MINUTE FIRE RATED SOLID CORE WITH SELF-CLOSING HINGES</li> <li>7.88 CHANGE IN FLOORING MATERIAL</li> <li>8.16 CUSTOM ISLAND WITH LEGS – SEE PLAN FOR DETAILS</li> <li>8.44 BENCH WITH COAT HOOKS</li> </ul>	CHARLESTON HIGHLAND MEADOWS #161 MASTER PLAN 5 BEDS, 4 BATHS
	GENERAL NOTES WINDOWS TO COMPLY WITH IRC R312.2 FOR FALL PROTECTION.	PROFESSIONAL SEAL:
BWL 4	ALL EXTERIOR WALLS, INTERIOR BEARING WALLS, AND INTERIOR BRACED WALLS ARE AT 16" O.C. UNLESS NOTED OTHERWISE. ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" O.C. ROOF AND CEILING FRAMING ARE PRE-ENGINEERED WOOD TRUSSES UNLESS NOTED OTHERWISE. DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR. HVAC DUCTWORK RUNNING THROUGH THE ATTIC SPACE SHALL BE HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION SURROUND.	LEE'S SUMMIT, MO 64064 816-399-4901 VERSION: 2.1 ISSUE DATE: 06.07.23
$\frac{\text{NFLORPLAN}}{\text{SCALE:} 1/4' = 1'-0'} \begin{pmatrix} 1 \\ 1 \end{pmatrix}$	<ul> <li>PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.</li> <li>2X6 EXTERIOR WALL OVER 12' SHALL BE DOUGLAS FIR #2.</li> <li>SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS.</li> <li>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.</li> </ul>	SHEET NUMBER:

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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).
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#### FLOOR PLANS:

 LEDGERS(FLOOR AND CEILING) SHALL BE IN ACCORDANCE WITH IRC 507.

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- EXTERIOR WALL SHEATHING SHALL BE AS FOLLOWS:
- <sup>3</sup>/<sub>8</sub>" THICK OSB FOR METHODS: WSP, CS-WSP AND PFH •  $\frac{7}{16}$ " 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 <sup>3</sup>/<sub>8</sub>" THICK OSB. OSB MAY BE OMITTED UNDERNEATH 7/16" GROOVED PANEL SIDING IN AREAS REQUIRING <sup>3</sup>/<sub>8</sub>" THICK OSB.
- INSTALL FASTENERS AND NAILING PATTERN PER 2018 IRC SECTION R602.10.

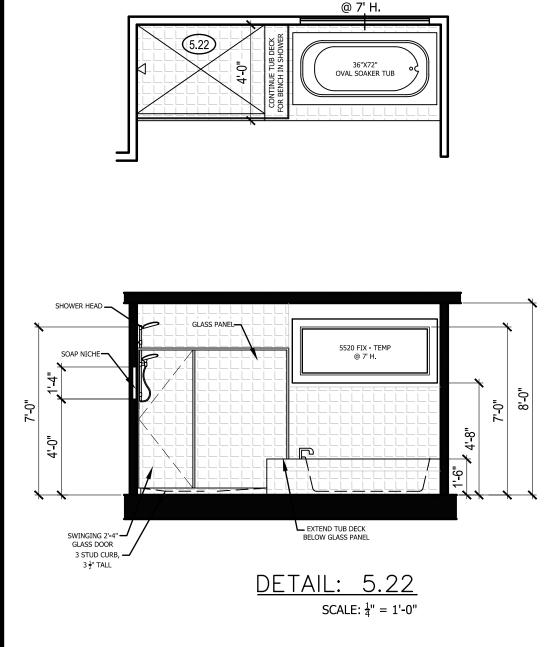
#### GIRDER TRUSS BEARING:

• 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 DTHERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN TO FOUNDATION OR LOAD SUPPORTING MEMBER.

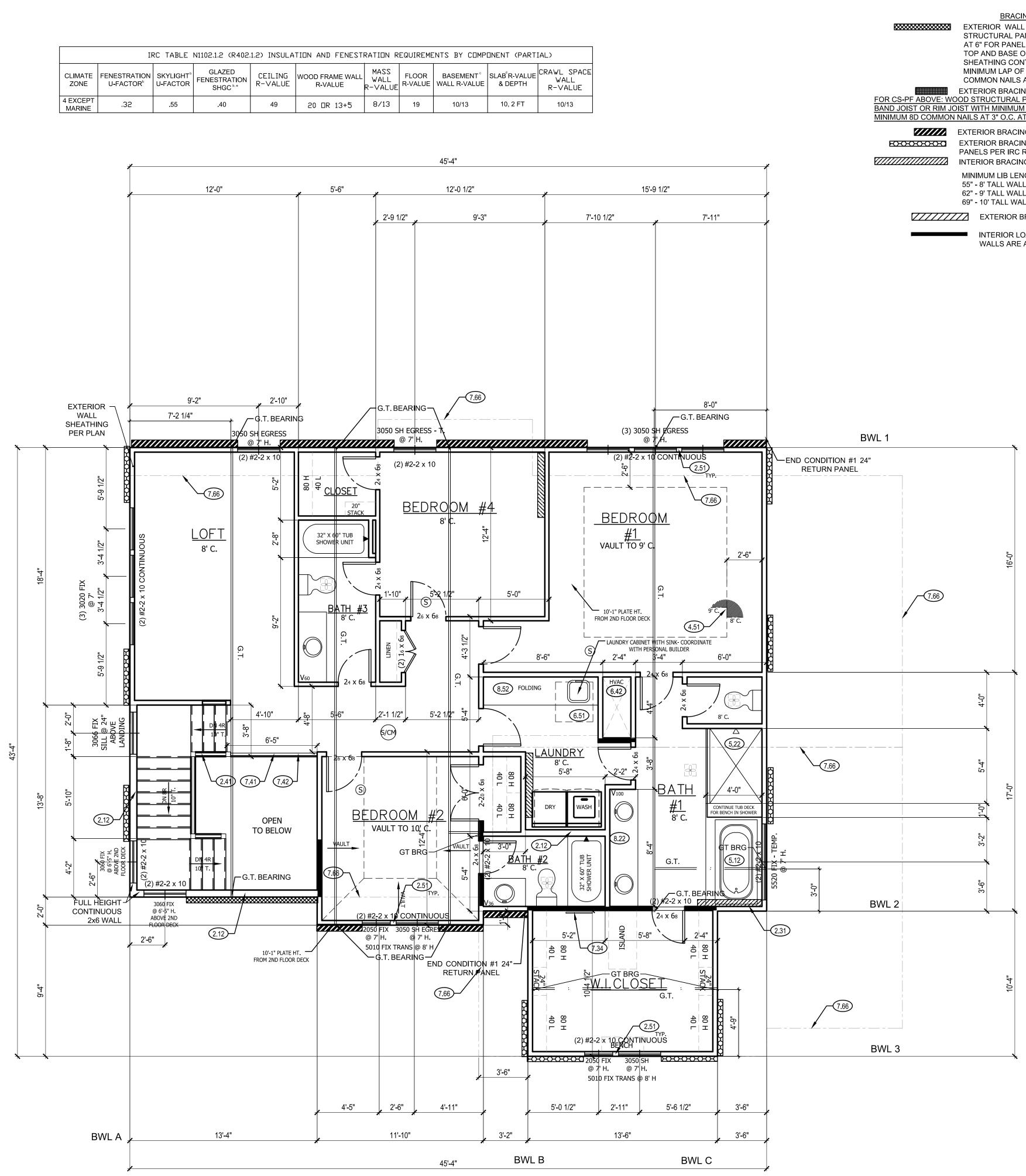
PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.

LVL'S SHALL BE: BOISE CASCADE VERSA-LAM 3100 FB PROVIDE FULL BEARING FOR DOUBLE, TRIPLE JOISTS, LVL'S AND STEEL BEAMS.

5520 FIX - TEMP.



IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND									
CLIMATE ZONE	FENESTRATION U-FACTOR <sup>♭</sup>	SKYLIGHT <sup>⁵</sup> U-FACTOR	GLAZED FENESTRATION SHGC <sup>b,®</sup>	CEILING R-∨ALUE	WOOD FF R-V				
4 EXCEPT MARINE	,32	.55	.40	49	20 DF				



CING METHODS	UPPER FLOOR PLAN NOTES	CPG DBA
LI BRACING 3/8" PANEL THICKNESS OSB WITH 24/0 ANEL SPAN RATING. 1-3/8" MIN PEN, 8d FASTENERS EL EDGES AND 12" IN FIELD. INSTALL BLOCKING AT OF WINDOWS. WOOD STRUCTURAL PANEL INTINUOUS OVER BAND JOIST OR RIM JOIST WITH OF 9-1/4". ATTACH SHEATHING WITH MINIMUM 8D S AT 3" O.C. AT TOP AND BOTTOM OF BAND/RIM JOIST ING CS-PF PER IRC R602.10 .PANEL SHEATHING CONTINUOUS OVER M LAP OF 9-1/4". ATTACH SHEATHING WITH AT TOP AND BOTTOM OF BAND/RIM JOIST. ING CS-WSP PER IRC R602.10 ING WSP PER IRC R602.10 ING WSP PER IRC R602.10 (INCLUDES PARTIAL : R602.10.5.2) NG LIB PER IRC R602.10 NGTH PER 2018 IRC TABLE R602.10.5: LL HEIGHT LL HEIGHT ALL HEIGHT BRACING PFH (SEE DETAILS) PER IRC R602.10.5 .OAD BEARING WALL (EXTERIOR E ASSUMED LOAD BEARING)	<ul> <li>2.12 2X6 STUD WALL</li> <li>2.31 SIX SIDED TUB ASSEMBLY INCLUDING THERMOPLY ON EXTERIOR WALL TO 2" ABOVE TOP OF TUB DECK OR TUB/SHOWER UNIT</li> <li>2.41 CURB STAIR SYSTEM</li> <li>2.51 3 STUDS BETWEEN WINDOW UNITS</li> <li>4.51 SINGLE BOX VAULT</li> <li>5.12 JETTED TUB: SEE PLAN FOR DETAILS.</li> <li>5.22 TILE BASE WITH TILE WALLS. SEE DETAIL.</li> <li>6.42 HVAC FLOOR OPENING. HEADER OFF FLOOR JOISTS AS REQUIRED. BUMP TRUSSES AS NECESSARY FOR HVAC ACCESS.</li> <li>6.51 1'-10"X3'-0" MINIMUM ATTIC ACCESS WITH 3/4" BACKER BOARD AND 2 LATCHES. BUMP TRUSSES FOR ATTIC ACCESS.</li> <li>7.34 FRAMED MIRROR</li> <li>7.42 PROVIDE ADDITIONAL BLOCKING UNDER SUBFLOOR @ 6'-0" O.C. FOR OPEN HANDRAIL.</li> <li>7.66 LINE OF FLOOR BELOW</li> <li>8.22 CONTINUOUS FLAT VANITY</li> <li>8.52 FOLDING TABLE</li> </ul>	<section-header><section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header></section-header>
		CHARLESTON HIGHLAND MEADOWS #161 MASTER PLAN 5 BEDS, 4 BATHS
	GENERAL NOTES WINDOWS TO COMPLY WITH IRC R312.2 FOR FALL PROTECTION. ALL EXTERIOR WALLS, INTERIOR BEARING WALLS, AND INTERIOR BRACED WALLS ARE AT 16" O.C. UNLESS NOTED OTHERWISE. ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" O.C.	PROFESSIONAL SEAL:
	ROOF AND CEILING FRAMING ARE PRE-ENGINEERED WOOD TRUSSES UNLESS NOTED OTHERWISE. DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY	VERSION: 2.1
	PER VENDOR. HVAC DUCTWORK RUNNING THROUGH THE ATTIC SPACE SHALL BE HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION SURROUND. PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.	ISSUE DATE: 06.07.23
	2X6 EXTERIOR WALL OVER 12' SHALL BE DOUGLAS FIR #2. SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS.	SHEET NUMBER:
$\frac{\text{ER} \text{LEVEL} \text{PLAN}}{\text{SCALE:} 1/4' = 1'-0'} $	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.	A5.0

#### TRUSS ROOF NOTES: (BY OTHERS) 1) DESIGNED FOR LIGHT ROOF COVERING

- TOP CHORD: LIVE LOAD/SNOW LOAD (PSF): 25 DEAD LOAD (PSF): 10
- BOTTOM CHORD: DEAD LOAD(PSF): 10
- 2) ALL EXTERIOR AND/OR LOAD BEARING WALL HEADERS
- SHALL BE MIN. (2) #2 2 x 10 UNLESS OTHERWISE NOTED. 3) CONSULT ENGINEER IF TRUSSES BEAR ON INTERIOR WALLS
- SHOWN AS NON-LOAD BEARING ON APPROVED PRINTS.
- 4) ROOF IS ENGINEERED TO COMPLY WITH IRC 802

= ROOF TRUSS FRAMING DIRECTION "G.T." = GIRDER TRUSS LOCATION = INTERIOR LOAD BEARING WALL

#### NOTE:

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

#### ROOF:

ROOF IS DESIGNED FOR 20 PSF SNOW LOAD. WOOD TRUSSES SHALL BE IN ACCORDANCE WITH IRC SECTION R802.10. CEILING JOIST OR RAFTER TIE CONNECTIONS BETWEEN RAFTERS, RIDGE BEAM,

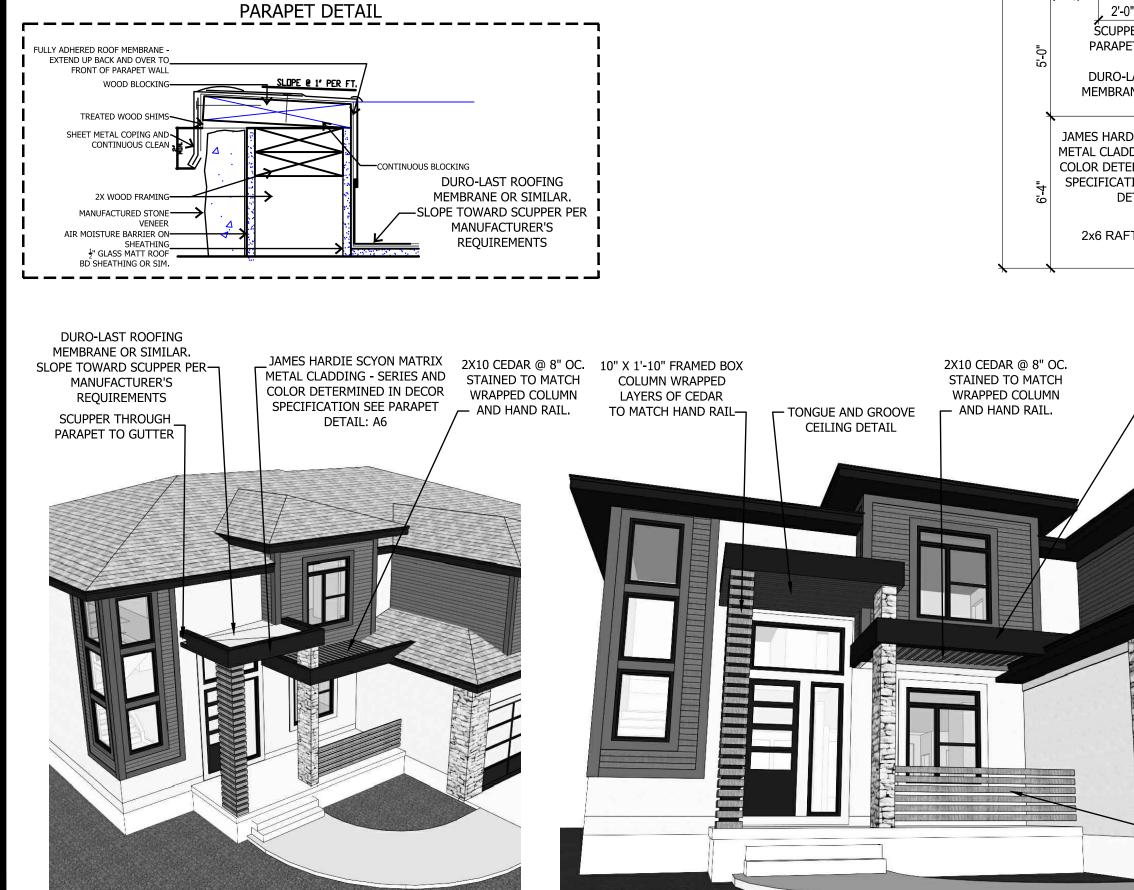
REQUIRED COLLAR TIES OR RIDGE STRAPS SHALL COMPLY WITH DETAILS AND IRC SECTION R802, R802.3, R802.3.1, R802.11.

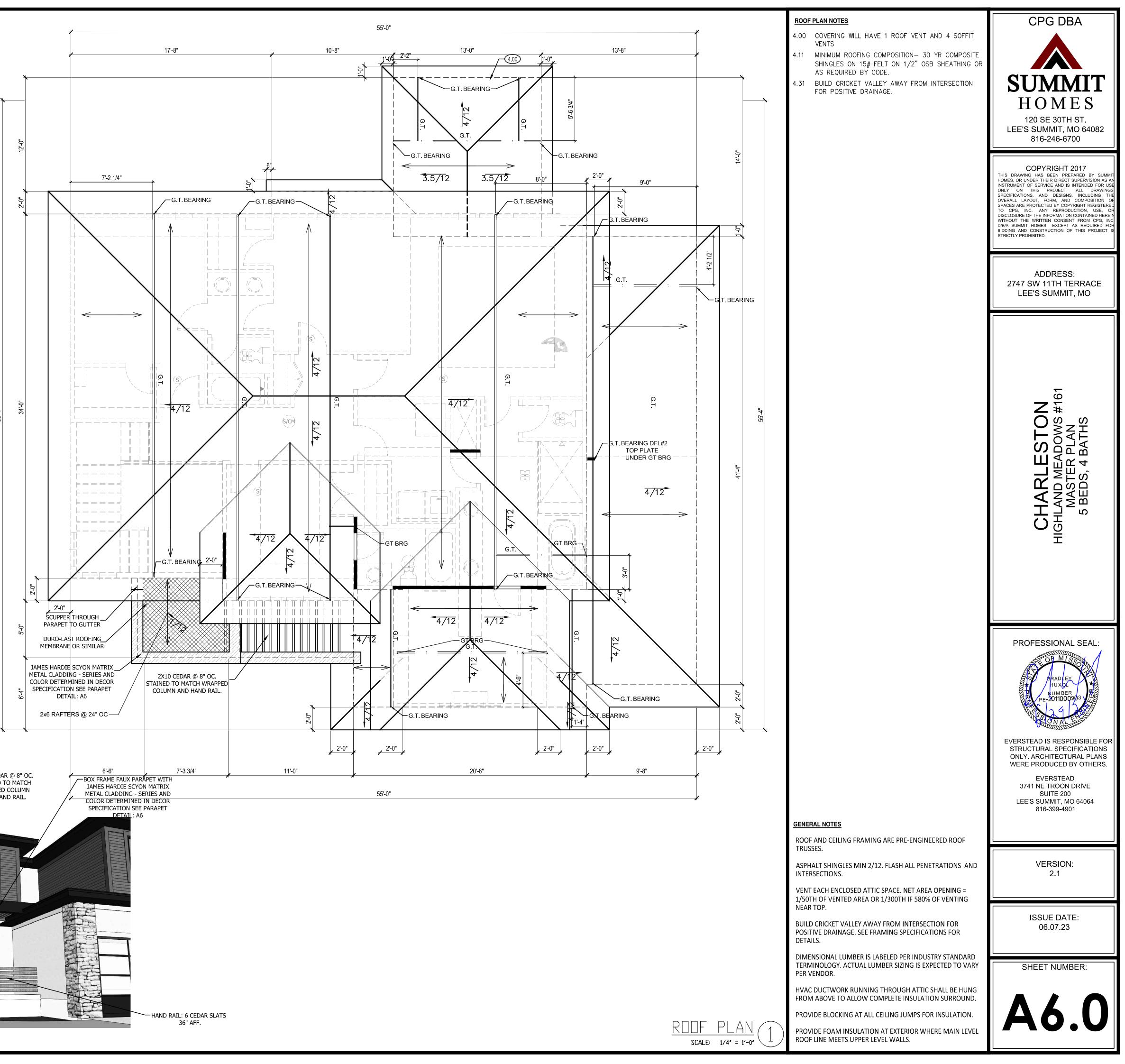
#### GIRDER TRUSS BEARING:

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 OTHERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN TO FOUNDATION OR LOAD SUPPORTING MEMBER.

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

EVERSTEAD STRUCTURAL SCOPE ENDS AT TOP PLATE FOR ROOF TRUSSES.





#### 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 II	NCLUDED IN	15 PSF DEAD LOAD)
LIVE		

ROOF LIVE LOAD	20 PSF	
FLOOR LIVE LOAD	40 PSF	(HABITABLE)
GARAGE	50 PSF	
STORAGE	20 PSF	(UN-INHABITABLE)
GUARDRAIL		
CONTINUOUS LINEAR	50 PLF	
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.

- 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 FT 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:

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.
- 7. 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

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 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

- 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 REINFORCEMENT SPACED 24" O.C. MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER WALLS 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).
- CORNERS.
- 5. AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 3-1/2". LEDGES SHALL NOT EXCEED
- BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS (SEE TYPICAL DEAD MAN SECTION).

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				

<u>TABLE 1.1</u>

## EXTERIOR WALLS, BEARING WALLS, COLUMN AND PIERS SHALL BE SUPPORTED ON CONTINUOUS SOLID 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

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

8. PROVIDE 2 - #5 BARS AROUND PERIMETER OF ALL SUSPENDED SLABS

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

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 D. SUPPLEMENTAL REINFORCEMENT AT CORNERS - PLACE 1 #4 REBAR 48" LONG AT 45 DEGREE 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.

6. STRAIGHT WALLS MORE THAN 5' TALL AND MORE THAN 16' LONG SHALL BE PROVIDED WITH EXTERIOR

#### 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) COLUMNS: ASTM A53 GR. B (Fy= 35 KSI) 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.

# <u>GLAZING</u>

- WALLS.

ABOVE.

GARAGES:

- BALANCE SYSTEM.
- PER R302.5.1.

## STAIRWAYS:

1. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS; GLASS IN STORM DOORS; INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR; WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR; ENCLOSURES FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS; GLAZING IN FIXED OR OPENABLE PANELS EXCEEDING 8 SF AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36".

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"

## FRAMING NOTES:

#### ENERGY REQUIREMENTS:

AS REQUIRED PER M1503.6.

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.

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

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.

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

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

6. SELF CLOSING DEVICES SHALL BE INSTALLED FOR GARAGE AND/OR DWELLING SEPARATION DOORS

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 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.

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.

2. WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH R312.2.

#### EMERGENCY EGRESS AND RESCUE

2. BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC R310.

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.

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

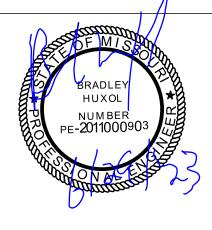
6. ANY WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY (OR THE FURRING THEY ARE ATTACHED TO) SHALL BE OF DECAY RESISTANT MATERIAL.

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.

LVL STRENGTH SHALL BE VERSA-LAM 3100 Fb UNLESS NOTED OTHERWISE.



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ING JOSTS TO TOP PLATE G JOISTS NOT ATTACHED TO ALLEL RAFTER LAPS OVER PARTITIONS ING JOIST ATTACHED TO LLEL RAFTER (HEEL JOINT) R TIE TO RAFTER, FACE NAIL 1/4"x20 GAGE RIDGE STRAP TO RAFTER R OR ROOF TRUSS TO PLATE RAFTERS TO RIDGE, VALLEY RAFTERS OR ROOF RAFTER MINIMUM 2" RIDGE BEAM TO STUD (NOT AT BRACED WALL PANELS) D TO STUD AND ABUTTING	S         NUMBER AND TYPE OF FASTENER           ROOF           A         ROOF           A         ABD BOX (2-1/2"x0.113") OR           3-8D COMMON (2-1/2" x 0.131"); 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           A         ABD COMMON (2-1/2" x 0.131"); OR           3-10D BOX (3" x 0.128"); OR         3-10D BOX (3" x 0.128"); OR           3-10D BOX (3" x 0.128"); OR         3-16D COMMON (3-1/2" X 0.162"); OR           A-PS OVER         4-10D BOX (3" X 0.128"); OR           3-16D COMMON (3-1/2" X 0.162"); OR         3-16D COMMON (3-1/2" X 0.162"); OR           A-FRCE NAIL         4-10D BOX (3" X 0.128"); OR           A-FRCE NAIL         4-10D BOX (3" X 0.128"); OR           A-10D COMMON (3" X 0.148"); OR         4-3" X 0.131" NAILS           SS TO PLATE         3-16d BOX NAILS (3-1/2"x0.135") OR           A-10D BOX (3" X 0.128"); OR         3-10d COMMON NAILS (3"x0.148"); OR           A-10D BOX (3" X 0.128"); OR         3-10d COMMON (3" X 0.148"); OR           A-10D BOX (3" X 0.128"); OR         3-10d COMMON (3" X 0.148"); OR           A-10D BOX (3" X 0.128"); OR         3-10d COMMON (3" X 0.148"); OR           A-10D BOX (3" X 0.128"); OR         3-10d COMMON (3" X 0.148"); OR           A-10D BOX (3" X 0.128"); OR         3-10D COM	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 AUGUITATION AND AND AND AND AND AND AND AND AND AN	21 22 23 24 25 26 27	JOST TO SILL, TOP PLATE OR 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	3-10D 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")	6" O.C. TO FACE N BLIND AND F AT EACH BEARIN END N NAIL EACH LAYER AS FO TOP END AND BOTTOM /	DE NAIL DE NAIL NAIL FACE NAIL NG, FACE NAIL IAIL
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ING JOSTS TO TOP PLATE G JOISTS NOT ATTACHED TO ALLEL RAFTER LAPS OVER PARTITIONS ING JOIST ATTACHED TO LLEL RAFTER (HEEL JOINT) R TIE TO RAFTER, FACE NAIL 1/4"x20 GAGE RIDGE STRAP TO RAFTER R OR ROOF TRUSS TO PLATE R OR ROOF TRUSS TO PLATE RAFTERS OR ROOF RAFTER MINIMUM 2" RIDGE BEAM TO STUD (NOT AT BRACED WALL PANELS) D TO STUD AND ABUTTING S AT INTERSECTING WALL RNERS (AT BRACED WALL PANELS) ILT-UP HEADER (2" TO 2"	3-3" x 0.131" NAILS           OP PLATE           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           TTACHED TO APS OVER S         4-10D BOX (3" X 0.128"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 4-3" X 0.131" NAILS           ACHED TO IEEL JOINT)         TABLE R802.5.2           R, FACE NAIL DGE STRAP         4-10D BOX (3" X 0.128"); OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS           SS TO PLATE         3-16d BOX NAILS (3-1/2"x0.135") OR 3-10d COMMON NAILS (3"x0.148"); OR 4-3" X 0.131" NAILS           SS TO PLATE         3-16d BOX NAILS (3-1/2"x0.135") OR 3-10d COMMON NAILS (3"x0.148"); OR 4-10D BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS           OGE, VALLEY OOF RAFTER GE BEAM         4-16D (3-1/2"x0.135"); OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS           OGF RAFTER GE BEAM         3-16d BOX NAILS (3-1/2"x0.135") OR 3-10D COMMON NAILS (3-1/2"x0.162"); OR 3-10D BOX (3" X 1.28"); OR 3-10D BOX (3" X 1.28"); OR 3-10D BOX (3" X 1.28"); OR 3-3" X 0.131" NAILS           AT BRACED S)         16D COMMON (3-1/2" X 0.162")	PER JOIST, TOE NAIL FACE NAIL FACE NAIL FACE NAIL FACE NAIL EACH RAFTER COE 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	23 24 25 26	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"	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 COMMON (3-1/2" X 0.162"); OR         4-3" X 14 GA. STAPLES, <sup>7</sup> / <sub>16</sub> " CROWN         20D COMMON (4" X 0.192"); OR         10D BOX (3" X 0.128"); OR	6" O.C. TO FACE N BLIND AND F AT EACH BEARIN END N NAIL EACH LAYER AS FO TOP END AND BOTTOM /	DE NAIL
ING JOSTS TO TOP PLATE G JOISTS NOT ATTACHED TO ALLEL RAFTER LAPS OVER PARTITIONS ING JOIST ATTACHED TO LLEL RAFTER (HEEL JOINT) R TIE TO RAFTER, FACE NAIL 1/4"x20 GAGE RIDGE STRAP TO RAFTER R OR ROOF TRUSS TO PLATE R OR ROOF TRUSS TO PLATE RAFTERS TO RIDGE, VALLEY RAFTERS OR ROOF RAFTER MINIMUM 2" RIDGE BEAM TO STUD (NOT AT BRACED WALL PANELS) D TO STUD AND ABUTTING S AT INTERSECTING WALL RNERS (AT BRACED WALL PANELS) ILT-UP HEADER (2" TO 2"	OP PLATE       3-8D COMMON (2-1/2" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS         TTACHED TO APS OVER S       4-10D BOX (3" X 0.128"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 4-3" X 0.131" NAILS         ACHED TO IEEL JOINT)       TABLE R802.5.2         R, FACE NAIL DGE STRAP R       4-10D BOX (3" X 0.128"); OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS         SS TO PLATE       3-16d BOX NAILS (3-1/2"x0.135") OR 3-10D COMMON NAILS (3"x0.148"); OR 4-3" X 0.131" NAILS         SS TO PLATE       3-16d BOX NAILS (3-1/2"x0.135") OR 3-10D COMMON NAILS (3"x0.148"); OR 4-3" X 0.131" NAILS         OGE, VALLEY OOF RAFTER GE BEAM       4-16D (3-1/2"x0.135"); OR 3-10D COMMON NAILS (3-1/2"x0.135") OR 2-16D COMMON 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         DEX (3" X .128"); OR 3-3" X 0.131" NAILS       3-16d BOX NAILS (3-1/2"x0.162"); OR 3-3" X 0.131" NAILS         DEX (3" X .128"); OR 3-3" X 0.131" NAILS       3-16D BOX (3" X .128"); OR 3-3" X 0.131" NAILS         DEX (3" X .128"); OR 3-3" X 0.131" NAILS       3-16D BOX (3" X .128"); OR 3-3" X 0.131" NAILS	FACE NAIL FACE NAIL FACE NAIL EACH RAFTER CON OPPOSITE SIDE OF EACH RAFTER OR TRUSS TOE NAIL END NAIL 24" O.C. FACE NAIL	23 24 25 26	(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"	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 0.162") 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	FACE N BLIND AND F AT EACH BEARIN END N NAIL EACH LAYER AS FC TOP END AND BOTTOM /	NAIL FACE NAIL NG, FACE NAIL IAIL
ALLEL RAFTER LAPS OVER PARTITIONS ING JOIST ATTACHED TO LLEL RAFTER (HEEL JOINT) R TIE TO RAFTER, FACE NAIL 1/4"x20 GAGE RIDGE STRAP TO RAFTER R OR ROOF TRUSS TO PLATE R OR ROOF TRUSS TO PLATE RAFTERS TO RIDGE, VALLEY RAFTERS OR ROOF RAFTER MINIMUM 2" RIDGE BEAM TO STUD (NOT AT BRACED WALL PANELS) D TO STUD AND ABUTTING S AT INTERSECTING WALL RNERS (AT BRACED WALL PANELS) ILT-UP HEADER (2" TO 2"	TTACHED TO APS OVER       4-10D BOX (3" X 0.128"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 4-3" X 0.131" NAILS         ACHED TO IEEL JOINT)       TABLE R802.5.2         R, FACE NAIL DGE STRAP 3       4-10D BOX (3" X 0.128"); OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS         SS TO PLATE       3-16d BOX NAILS (3-1/2"x0.135") OR 3-10d COMMON NAILS (3"x0.148"); OR 4-3" X 0.131" NAILS         SS TO PLATE       3-16d BOX NAILS (3-1/2"x0.135") OR 3-10d COMMON NAILS (3"x0.148"); OR 4-3" X 0.131" NAILS         OGE, VALLEY OOF RAFTER GE BEAM       4-16D (3-1/2"x0.135"); OR 3-10D COMMON (3" X 0.148"); OR 4-30" 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         DGE, VALLEY OOF RAFTER GE BEAM       4-16D (3-1/2"x0.135"); OR 3-10D COMMON NAILS (3-1/2"x0.162"); OR 3-10D BOX (3" X .128"); OR 3-10D BOX (3" X .128"); OR 3-10D BOX (3" X .128"); OR 3-3" X 0.131" NAILS         THRACED (S)       16D COMMON (3-1/2" X 0.162")	FACE NAIL         FACE NAIL EACH RAFTER         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	24 25 26	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"	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"); OR 4-10 BOX (3" X 0.128"); OR 4-3" X 14 GA. STAPLES, <sup>T</sup> / <sub>16</sub> " CROWN 20D COMMON (4" X 0.192"); OR 10D BOX (3" X 0.128"); OR	BLIND AND F AT EACH BEARIN END N NAIL EACH LAYER AS FC TOP END AND BOTTOM /	FACE NAIL NG, FACE NAIL IAIL DLLOWS: 32" O.C. A
ING JOIST ATTACHED TO LLEL RAFTER (HEEL JOINT) R TIE TO RAFTER, FACE NAIL 1/4"x20 GAGE RIDGE STRAP TO RAFTER R OR ROOF TRUSS TO PLATE RAFTERS TO RIDGE, VALLEY RAFTERS OR ROOF RAFTER MINIMUM 2" RIDGE BEAM TO STUD (NOT AT BRACED WALL PANELS) D TO STUD AND ABUTTING S AT INTERSECTING WALL RNERS (AT BRACED WALL PANELS) ILT-UP HEADER (2" TO 2"	ACHED TO IEEL JOINT)         TABLE R802.5.2           R, FACE NAIL DGE STRAP         4-10D BOX (3" X 0.128"); OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS           SS TO PLATE         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"x0.148"); OR 4-3" X 0.131" NAILS           DGE, VALLEY OOF RAFTER GE BEAM         4-16D (3-1/2"x0.135"); OR 3-10D COMMON (3" X 0.148"); OR 4-10D BOX (3" X 0.128"); OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS           DGE, VALLEY OOF RAFTER GE BEAM         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           AT BRACED S)         16D COMMON (3-1/2" X 0.162")	FACE NAIL EACH RAFTER  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	25 26	2" PLANKS (PLANK & BEAM - FLOOR & ROOF) BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2"	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, <sup>7</sup> / <sub>16</sub> " CROWN 20D COMMON (4" X 0.192"); OR	AT EACH BEARIN END N NAIL EACH LAYER AS FC TOP END AND BOTTOM /	IG, FACE NAIL IAIL DLLOWS: 32" O.C. A
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TO RAFTER R OR ROOF TRUSS TO PLATE RAFTERS TO RIDGE, VALLEY RAFTERS OR ROOF RAFTER MINIMUM 2" RIDGE BEAM TO STUD (NOT AT BRACED WALL PANELS) D TO STUD AND ABUTTING S AT INTERSECTING WALL RNERS (AT BRACED WALL PANELS) ILT-UP HEADER (2" TO 2"	R       4-3" X 0.131" NAILS         A       4-3" X 0.131" NAILS         SS TO PLATE       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         A         OGE, VALLEY         OGE, VALLEY         A-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         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 COMMON (3-1/2" X 0.162")         AT BRACED       16D COMMON (3-1/2" X 0.162")         NO BOX (3"x0.128"); OR       10d BOX (3"x0.128"); OR	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	26	& ROOF) BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2"	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, <sup><i>T</i></sup> / <sub>16</sub> " CROWN 20D COMMON (4" X 0.192"); OR	END N NAIL EACH LAYER AS FC TOP END AND BOTTOM /	IAIL DLLOWS: 32" O.C. A
RAFTERS TO RIDGE, VALLEY RAFTERS OR ROOF RAFTER MINIMUM 2" RIDGE BEAM TO STUD (NOT AT BRACED WALL PANELS) D TO STUD AND ABUTTING S AT INTERSECTING WALL RNERS (AT BRACED WALL PANELS) ILT-UP HEADER (2" TO 2"	SS TO PLATE       3-10d COMMON NAILS (3"x0.148"); OR         4-10D BOX (3" X .128"); OR         4-3" X 0.131" NAILS         OGE, VALLEY         OF RAFTER         GE BEAM         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         4-3" 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         WALL         WALL	ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS TOE NAIL END NAIL 24" O.C. FACE NAIL		BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2"	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, <sup>7</sup> / <sub>16</sub> " CROWN 20D COMMON (4" X 0.192"); OR 10D BOX (3" X 0.128"); OR	NAIL EACH LAYER AS FC TOP END AND BOTTOM	DLLOWS: 32" O.C. A
RAFTERS OR ROOF RAFTER MINIMUM 2" RIDGE BEAM TO STUD (NOT AT BRACED WALL PANELS) D TO STUD AND ABUTTING OS AT INTERSECTING WALL RNERS (AT BRACED WALL PANELS) ILT-UP HEADER (2" TO 2"	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         VALL         Ind BOX (3"x0.128"); OR         10d BOX (3"x0.128"); OR	END NAIL 24" O.C. FACE NAIL	27		20D COMMON (4" X 0.192"); OR 10D BOX (3" X 0.128"); OR	TOP END AND BOTTOM	
RAFTERS OR ROOF RAFTER MINIMUM 2" RIDGE BEAM TO STUD (NOT AT BRACED WALL PANELS) D TO STUD AND ABUTTING OS AT INTERSECTING WALL RNERS (AT BRACED WALL PANELS) ILT-UP HEADER (2" TO 2"	OOF RAFTER GE BEAM         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           AT BRACED (S)	24" O.C. FACE NAIL	27			24" O.C. FACE NAIL AT TO	,
WALL PANELS) D TO STUD AND ABUTTING S AT INTERSECTING WALL RNERS (AT BRACED WALL PANELS) ILT-UP HEADER (2" TO 2"	AT BRACED 16D COMMON (3-1/2" X 0.162") (S) 10d BOX (3"x0.128"); OR				AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR		ITE SIDES
WALL PANELS) D TO STUD AND ABUTTING S AT INTERSECTING WALL RNERS (AT BRACED WALL PANELS) ILT-UP HEADER (2" TO 2"	AT BRACED S) 10d BOX (3"x0.128"); OR				3-3" X 0.131" NAILS 4-16D BOX (3-1/2" X 0.135"); OR		
S AT INTERSECTING WALL RNERS (AT BRACED WALL PANELS) ILT-UP HEADER (2" TO 2"		16" O.C. FACE NAIL	28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16D BOX (3-1/2" X 0.135 ); OR 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) ILT-UP HEADER (2" TO 2"	TING WALL 3" X 0.131" NAILS	12" O.C. FACE NAIL	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	
		16" O.C. FACE NAIL		JOIST	0.131") NAILS	BLIND AND FACE NAIL AT EACH BEARING, FACE END NAIL NAIL EACH LAYER AS FOLLOWS: TOP END AND BOTTOM AND STAC 24" O.C. FACE NAIL AT TOP AND E STAGGERED ON OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH STAGGERED ON OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH CAT EACH JOIST OR RAFTER, F EACH END, TOE NAI SPACING OF FASTENE EDGES (IN) INTER SUPPO 6 6 6 6 6 7 3 3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		16" O.C. ALONG EACH EDGE FACE NAIL				SPACING OF F	ASTENERS
INUOUS HEADER TO STUD	5-8D BOX (2-1/2" X 0.113"); OR	12" ALONG EACH EDGE FACE NAIL TOENAIL	ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	EDGES (IN)	INTERMEDIATE SUPPORTS (IN)
	16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL			6d COMMON (2"x0.113") NAILS (SUBFLOOR, WALL)		
P PLATE TO TOP PLATE	P PLATE 10d BOX (3"x0.128"); OR 3" X 0.131" NAILS	12" O.C. FACE NAIL	30	3/8" - 1/2"	8d COMMON (2-1/2"x0.131") NAIL (ROOF); OR RSRS-01 (2-38" X 0.113") NAIL (ROOF)	6	12
UBLE TOP PLATE SPLICE	12-10D BOX (3" X 0.128"); OR	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)	31	19/32"-1"	8d COMMON NAIL (2-1/2"x0.131"); OR RSRS-01 (2-3/8" X 0.113") NAIL (ROOF)	6	12
TOM PLATE TO JOIST. RIM	12-3" X 0.131" NAILS IOIST RIM 16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL	32	1-1/8" - 1-1.4"	10d COMMON (3"x0.148") NAIL OR 8D (2-1/2"x0.131") DEFORMED NAIL	6	12
BAND JOIST OR BLOCKING	R BLOCKING 16D BOX (3-1/2"x0.135"); OR	12" O.C. FACE NAIL			OTHER WALL SHEATHING		
TOM PLATE TO JOIST, RIM	JOIST, RIM 3-16d BOX NAILS (3-1/2"x0.135") OR	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL	33	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1-1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, OR 1-1/4" LONG 16 GA. STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN	3	6
RACED WALL PANELS)	ANELS) 4-3" X 0.131" NAILS 4-8D BOX (2-1/2"x0.113") OR 3-16D BOX (3-1/2" x 0.135"); OR	4 EACH 16" O.C. FACE 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 716" OR 1" CROWN	3	6
R BOTTOM PLATE TO STUD		TOE NAIL	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
	3-16D BOX (3-1/2" x 0.135"); OR 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
	3-10D BOX (3" X 0 128"\) OP						AMING
	CORNERS         2-16D COMMON (3-1/2" X 0.162"); OR           FIONS         3-3" X 0.131" NAILS	FACE NAIL	37	3/4" AND LESS	6D DEFORMED (2"x0.120") NAIL OR 8D COMMON (2-1/2"x0.131") NAIL	6	12
RACE TO EACH STUD AND PLATE	2-10D BOX (3" X 0.128"); OR	FACE NAIL	38	7/8" - 1"	8D COMMON (2-1/2"x0.131") NAIL OR 8D DEFORMED (2-1/2"x0.120") NAIL	6	12
	2-10D BOX (3" X 0.128"); OR	FACE NAIL	39	1-1/8" - 1-1/4"	10D COMMON (3"x0.148") NAIL OR 8D DEFORMED (2-1/2"x0.120") NAIL	6	12
6" SHEATHING TO EACH BEARING	2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG 3-8D BOX (2-1/2" X 0.113"); OR			F			
BEARING	3-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 3 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG			_	LEDGERS AND BAND 、	PACE NAIL AT EACH BEARING, FACE NAIL PACE NAIL AT ENDS AND AT EACH SPL PACE NAIL AT EACH SPL PACE NAIL AT ENDS AND AT EACH SPL PACE NAIL AT ENDS AND AT EACH SPL PACE NAIL AT EACH SPL PACE NAIL AT ENDS AND AT EACH SPL PACE NAIL AT EACH SPL P	:
A 	ND INTERSEC ACE TO EACH S PLATE	3-10D BOX (3" x 0.128"); OR         3-3" x 0.131" NAILS         ATES, LAPS AT CORNERS         ND 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         ACE TO EACH STUD AND         PLATE         3-8D BOX (2-1/2" X 0.113"); OR         2-10D BOX (3" X 0.128"); OR         2 STAPLES 1-3/4"         " SHEATHING TO EACH         BEARING         3-8D BOX (2-1/2" X 0.113"); OR         2-10D BOX (3" X 0.128"); OR         2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG         ND WIDER SHEATHING TO         EACH BEARING         ND WIDER SHEATHING TO         EACH BEARING         VIDER THAN 1" X 8"         4-80 BOX (2-1/2" X 0.113"); OR	3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS         END NAIL           ATES, LAPS AT CORNERS ND 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           ACE TO EACH STUD AND PLATE         3-8D BOX (2-1/2" X 0.113"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 2-10D BOX (3" X 0.128"); OR         FACE NAIL           "SHEATHING TO EACH BEARING         3-8D BOX (2-1/2" X 0.113"); OR 2-8D COMMON (2-1/2" X 0.113"); OR 2-10D BOX (3" X 0.128"); OR         FACE NAIL           "SHEATHING TO EACH BEARING         3-8D BOX (2-1/2" X 0.113"); OR 2-10D BOX (3" X 0.128"); OR         FACE NAIL           "SHEATHING TO EACH BEARING         3-8D BOX (2-1/2" X 0.113"); OR 2-10D BOX (3" X 0.128"); OR 3-8D COMMON (2-1/2" X 0.113"); OR 3-10D BOX (3" X 0.128"); OR         FACE NAIL           ND WIDER SHEATHING TO EACH BEARING	3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS         END NAIL         36           ATES, LAPS AT CORNERS ND 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         37           ACE TO EACH STUD AND PLATE         3-8D BOX (2-1/2" x 0.113"); 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 0.113"); OR 2-8D COMMON (2-1/2" x 0.113"); OR 2-8D COMMON (2-1/2" x 0.113"); OR 3-8D BOX (2-1/2" x 0.113"); OR 3-8D BOX (2-1/2" x 0.113"); OR 3-8D BOX (2-1/2" x 0.113"); OR 3-8D COMMON (2-1/2" x 0.113"); OR 3-8D COMMON (2-1/2" x 0.113"); OR 3-8D COMMON (2-1/2" x 0.113"); OR 3-10D BOX (3" x 0.128"); OR 3-10D BOX (3" x 0.128"); OR 3-10D BOX (3" x 0.128"); OR 3-10D BOX (2-1/2" x 0.113"); OR         FACE NAIL	3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS         END NAIL         36         5/8" GYPSUM SHEATHING           ATES, LAPS AT CORNERS ND 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         36         3/8" ODD STRUCTURA           ACE 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 (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.113"); OR 3-8D BOX (2-1/2" X 0.113"); OR         FACE NAIL           ND WIDER SHEATHING TO EACH BEARING         WIDER THAN 1" X 8" 4-8D BOX (2-1/2" X 0.113"); OR         FACE NAIL	S-10D BOX (3* x 0.128"); OR 3-3" x 0.131" NAILS         END NAIL         S6         S/8" GYPSUM SHEATHING         GLAVANZEU, 1-3/8" SCREWS, TYPE "W" OR "s"         GLAVANZEU, 1-3/8" SCREWS, TYPE "W" OR "s"           ATES, LAPS AT CORRERS ND INTERSECTIONS         3-40D BOX (3* X 0.128"); OR 2-16D COMMON (3-1/2" X 0.162"); OR 3-3" X 0.131" NAILS         FACE NAIL         36         5/8" GYPSUM SHEATHING WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UI 37         3/4" AND LESS         6D DEFORMED (2*/0.120") NAIL OR 8D COMMON (2-1/2" X 0.131") NAIL           ACE TO EACH STUD AND PLATE         2-8D COMMON (2-1/2" X 0.131"), OR 2-10D BOX (3" X 0.128"); OR 2-STAPLES 1-3/4"         FACE NAIL 2-8D COMMON (2-1/2" X 0.131"), OR 2-STAPLES, 1-3/4" LONG         8D COMMON (2-1/2" X 0.131") NAIL OR 8D DEFORMED (2-1/2" x 0.131") NAIL 39         38         7/8" - 1"         8D COMMON (2-1/2" X 0.131") NAIL 30 DEFORMED (2-1/2" x 0.131") NAIL 39         38         DEFORMED (2-1/2" x 0.131") NAIL 30         <	3-100 BOX (3" x 0.128"); OR -3-3" x 0.131" NAILS     END NAIL     GAL VANUED, 1-58" SCREWS, 7     7       ATES, LAPS AT CORNERS ND INTERSECTIONS     3-100 BOX (3" x 0.128"); OR -3-3" x 0.131" NAILS     60 DEFORMED (2-1/2" x 0.151"); NAIL OR -3-3" x 0.131" NAILS     60 DEFORMED (2-1/2" x 0.131") NAIL OR -3-3" x 0.131" NAILS     60 DEFORMED (2-1/2" x 0.131") NAIL OR -3-3" x 0.131") NAIL OR -3-0 DEMOX (2-1/2" x 0.131"); 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 (3" x 0.131"); OR -2-10D BOX (3" x 0.128"); OR -2-10D BOX (2" 2" X 0.113"); OR -2-10D BOX (2" 2" X 0.113"); OR -2-10D BOX (2" 2" X 0.113"); OR -2-

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

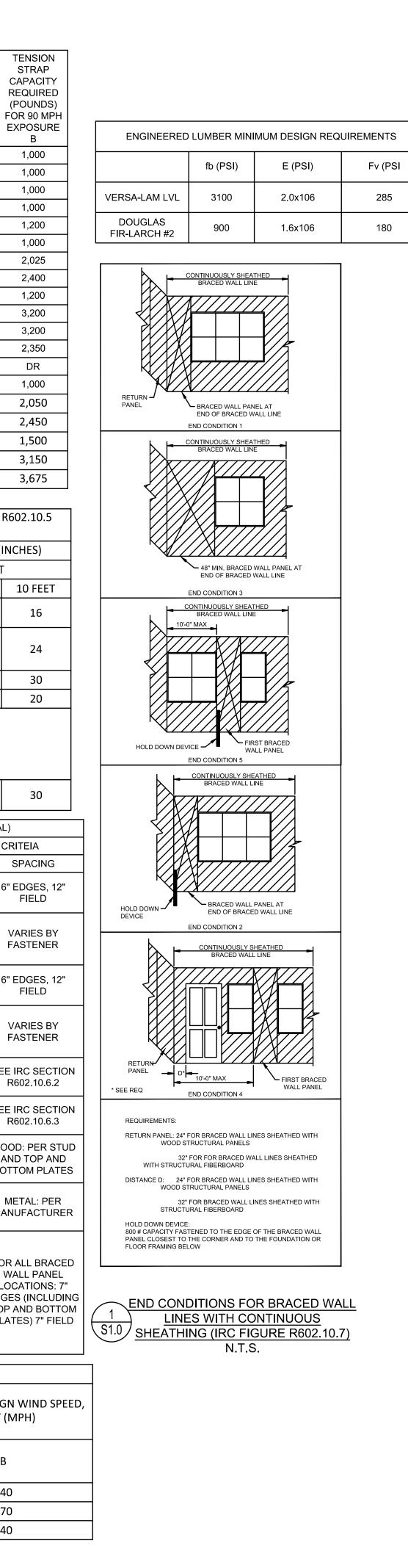
MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE	MAXIMUM PONY WALL HEIGHT (FEET)	MAXIMUM TOTAL WALL HEIGHT (FEET)	MAXIMUM OPENING WIDTH (FEET)	(F) E
	0	10	18	
2x4 NO 2 GRADE			9	
	1	10	16	
			18	
			9	
	2	10	16	
			18	
			9	
	2	12	16	
			18	
			9	
	4	12	16	
			18	
			9	
	2	12	16	
2x6 STUD			18	
GRADE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

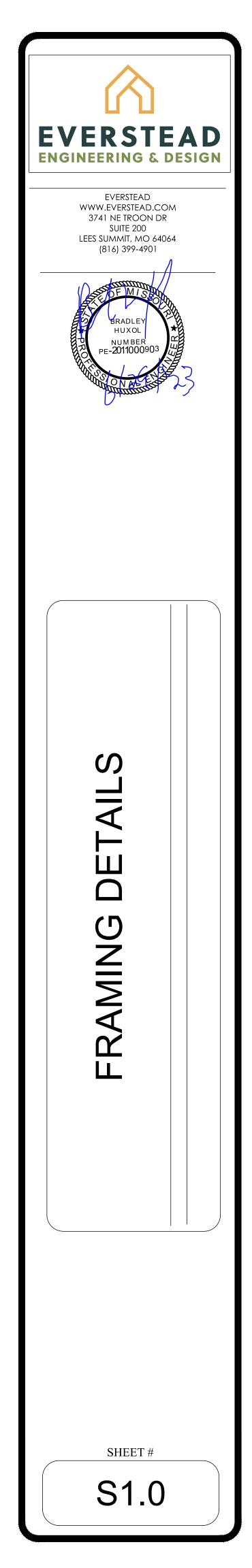
MINIMUM LENGTH OF BRACED WALL PANELS TABLE R6 (PARTIAL)						
		MINIMUM LENGTH (IN				
M	ETHOD	WALL HEIGHT				
		8 FEET	9 FEET			
	SUPPORTING ROOF ONLY	16	16			
PFH	SUPPORTING ONE STORY AND ROOF	24	24			
	PFG	24	27			
(	CS-PF	16	18			
CS-WSP	ADJACENT CLEAR OPENING HEIGHT (INCHES)					
	LESS THAN OR EQUAL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

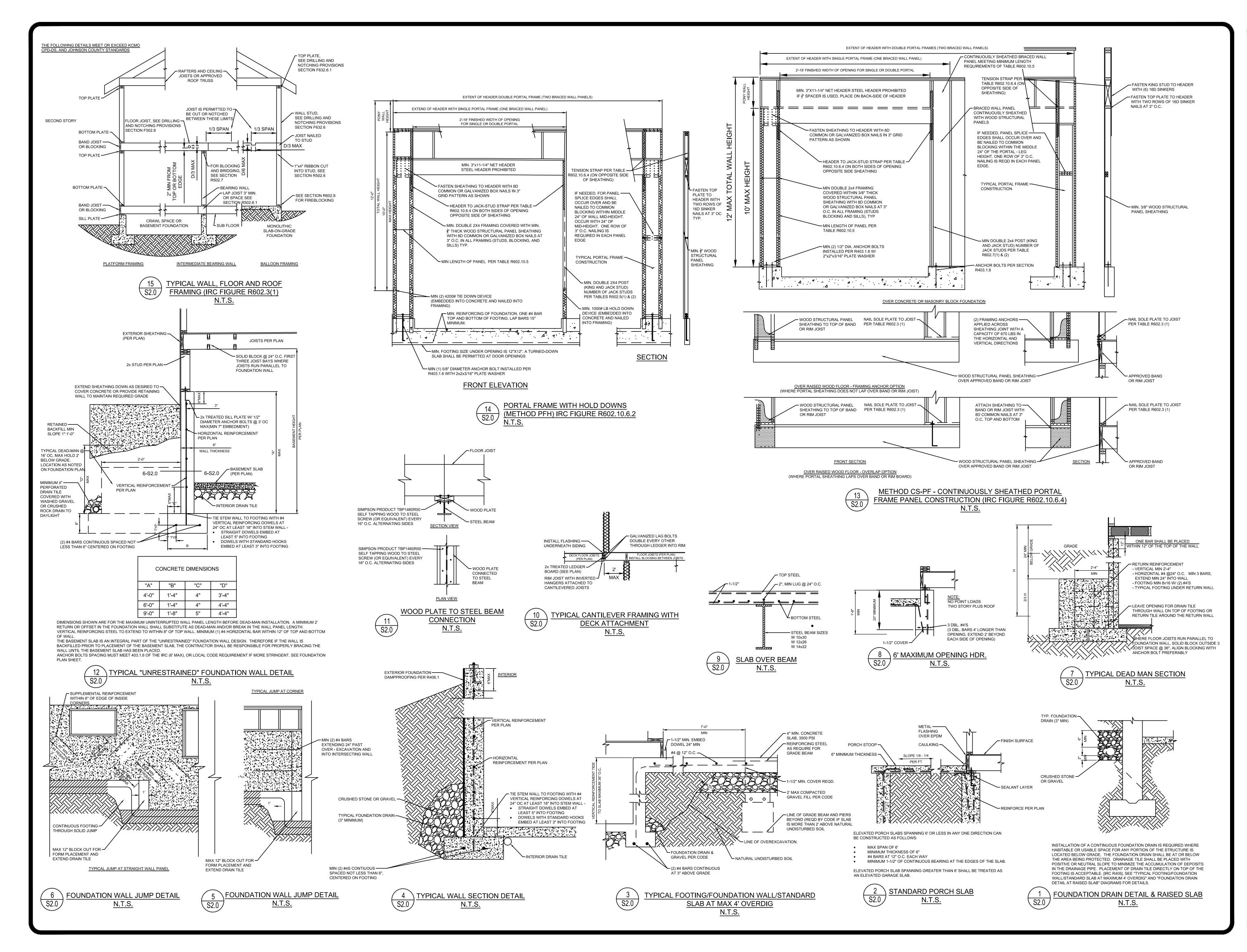
BRACING METHODS TABLE R602.10.4 (PARTIAL)						
METHODS,	MINIMUM	CONNECTION CF				
MATERIAL	THICKNESS	FASTENERS				
WSP - WOOD		EXTERIOR SHEATHING PER TABLE R602.3(3)	6"			
STRUCTURAL PANEL	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	V F			
		EXERIOR SHEATHING PER TABLE R602.3(3)	6"			
SHEATHED WOOD STRUCTURAL PANEL	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	∨ 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 LO			
BOARD	172	NAILS OR SCREWS PER TABLE R702.3.5 FOR INTERIOR LOCATIONS	EDGE TOP PLA <sup>-</sup>			

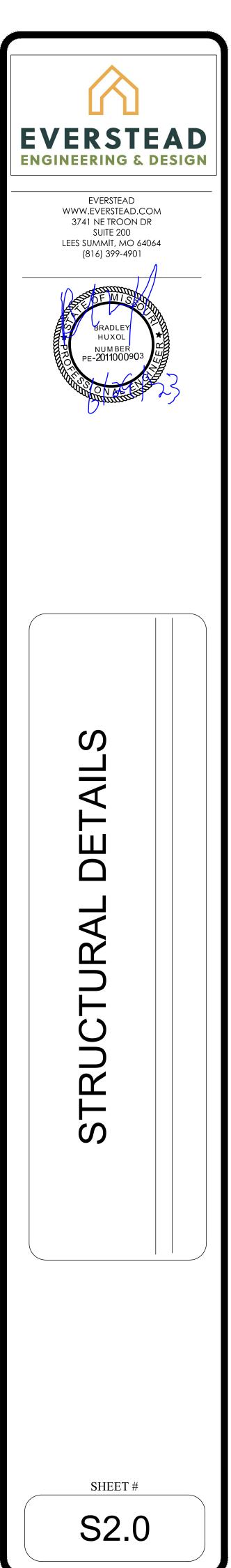
TABLE R507.2.1 PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS						
MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (INCHES)						
	TOP EDGE	BOTTOM EDGE	ENDS	ROW SPACING		
LEDGER	2	1/4	2	1-5/8		
BAND JOIST	3/4	2	2	1-5/8		

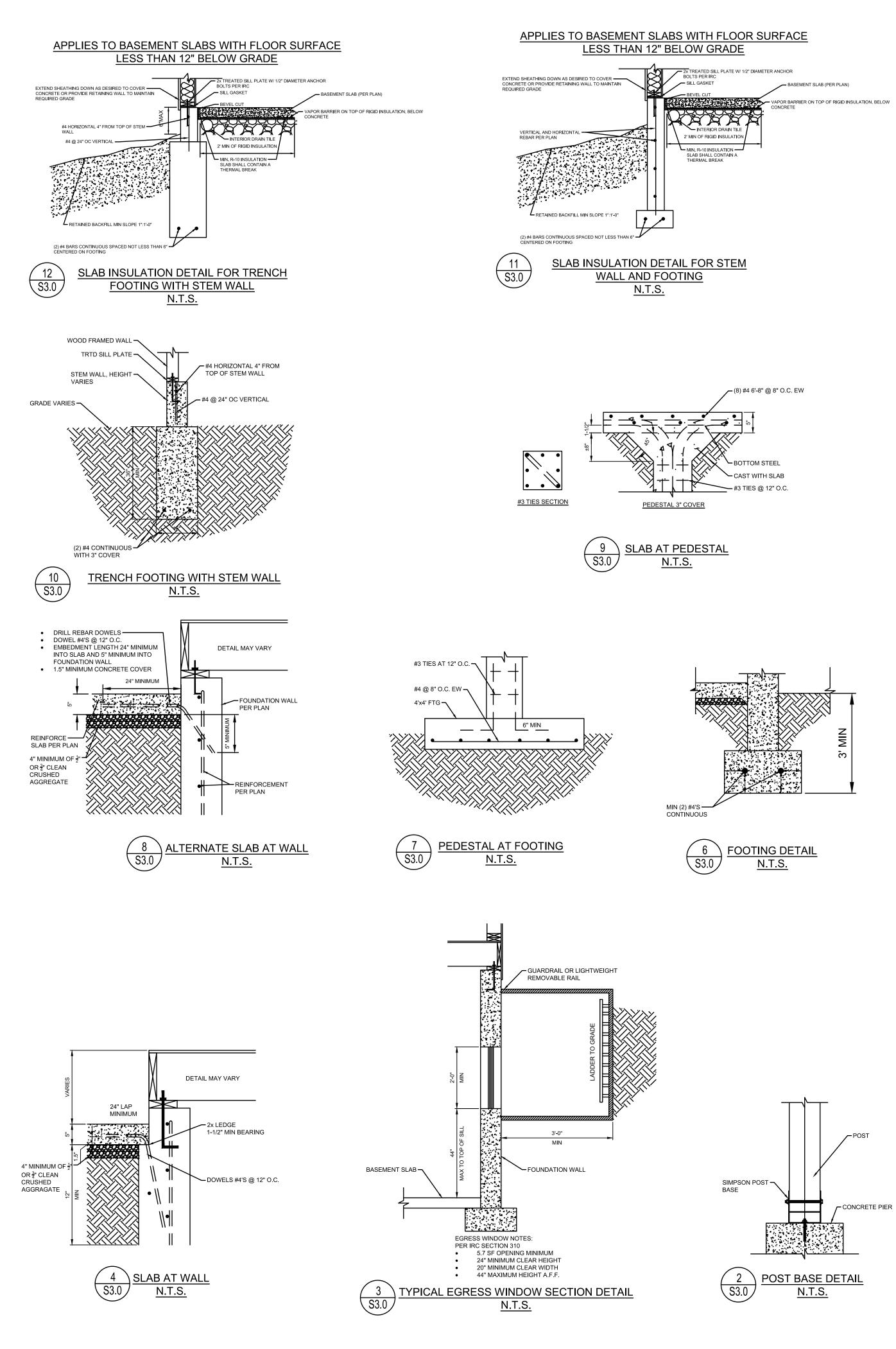
REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES IRC TABLE 602.3(3) (PARTIAL)							
MINIMU	MINIMUM NAIL		MINIMUM NOMINAL PANEL	MAX WALL STUD	PANEL NAIL SPACING		ULTIMATE DESIGN V V ULT (M
SIZE	PENETRATION (IN)	PANEL SPAN RATING	THICKNESS (IN)	SPACING	EDGES (IN O.C.)	FIELD (IN O.C.)	В
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		24	6	12	140

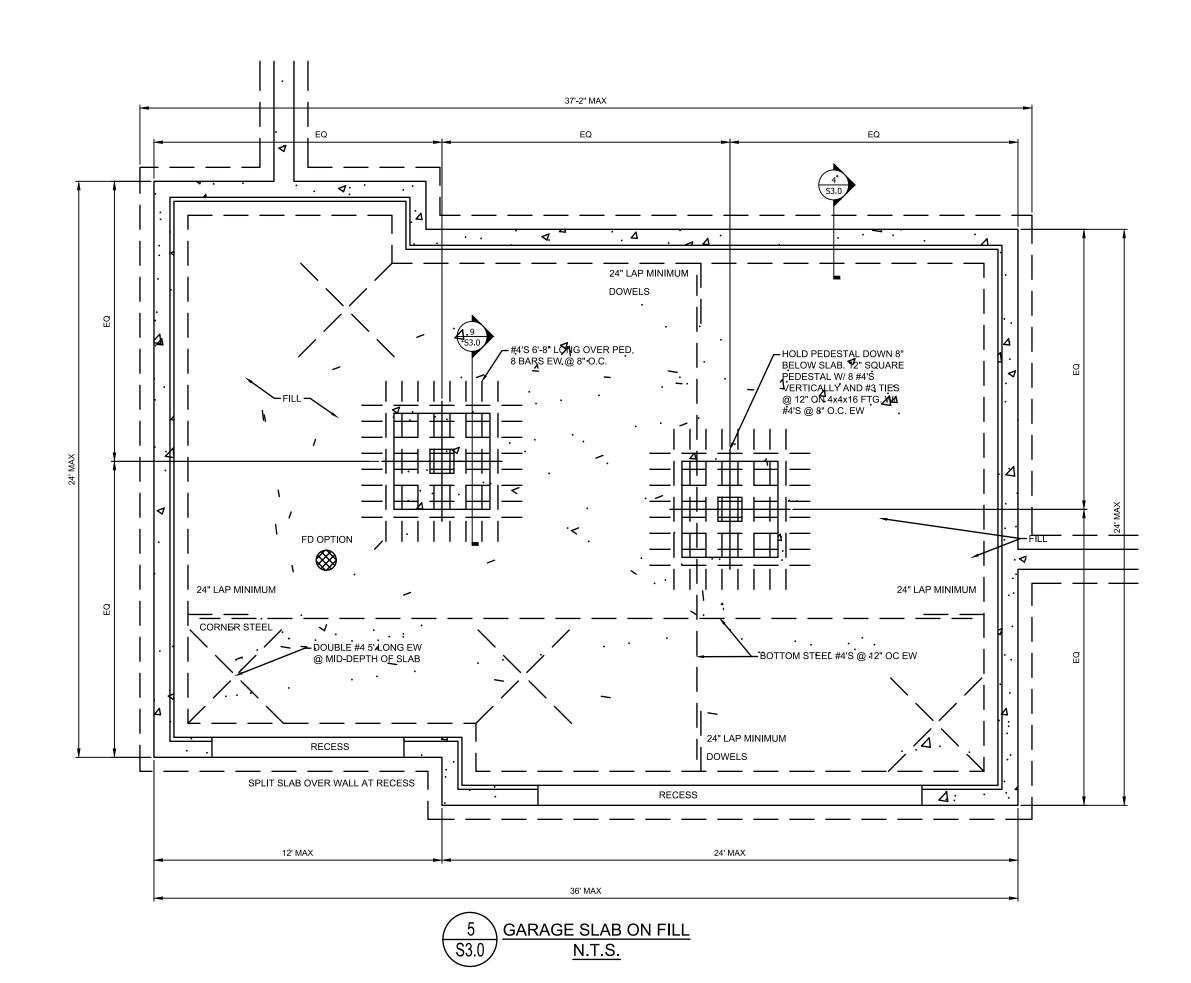


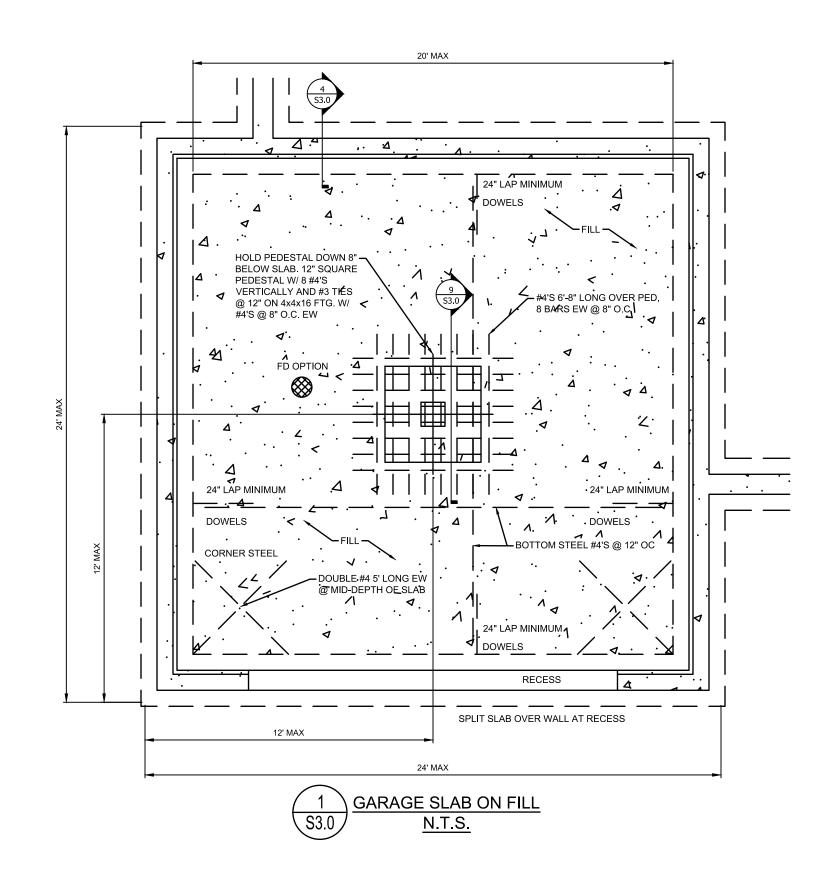


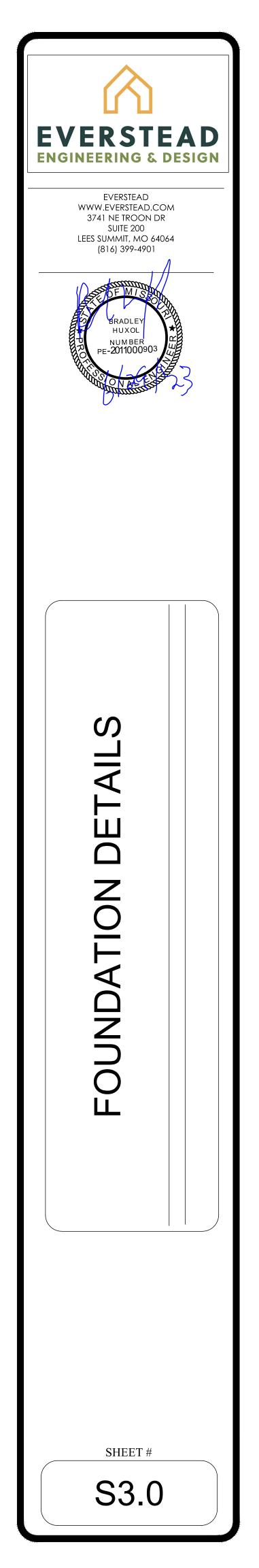












#### HELIX REQUIREMENTS:

- 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.

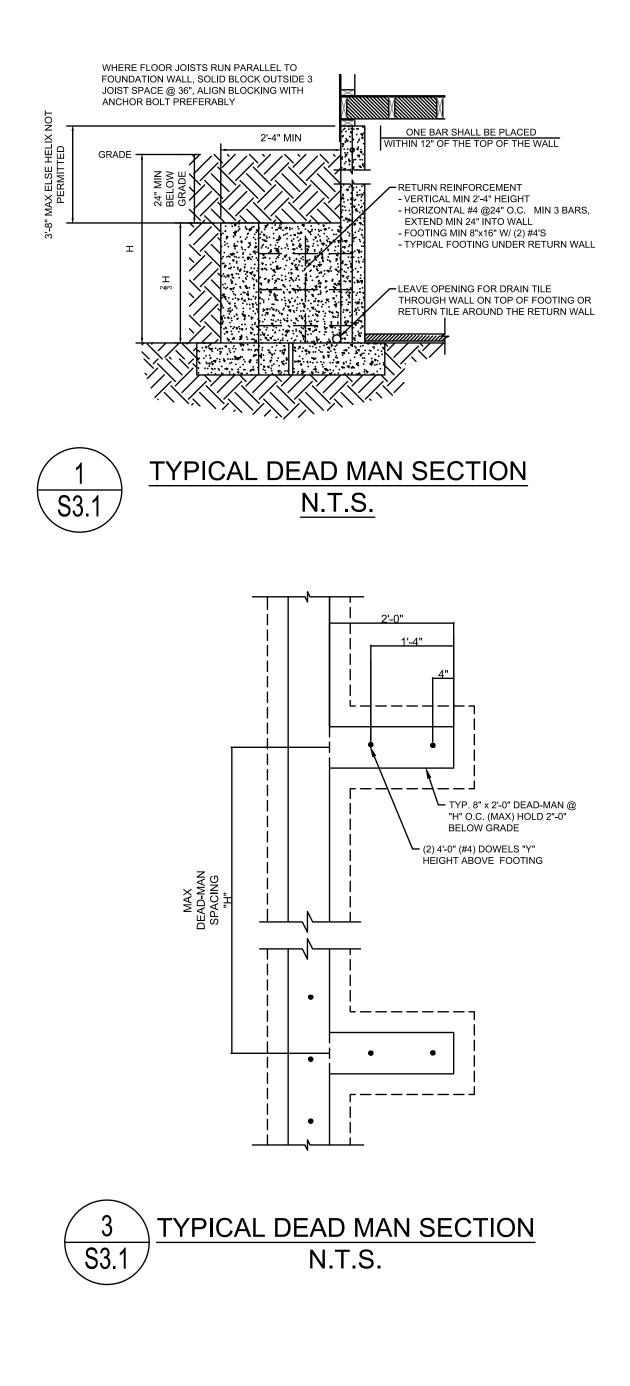
HELIX ALTERNATE DESIGN NOT VALID IF ANY ONE OF THE FOLLOWING CONDITIONS ARE MET:

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

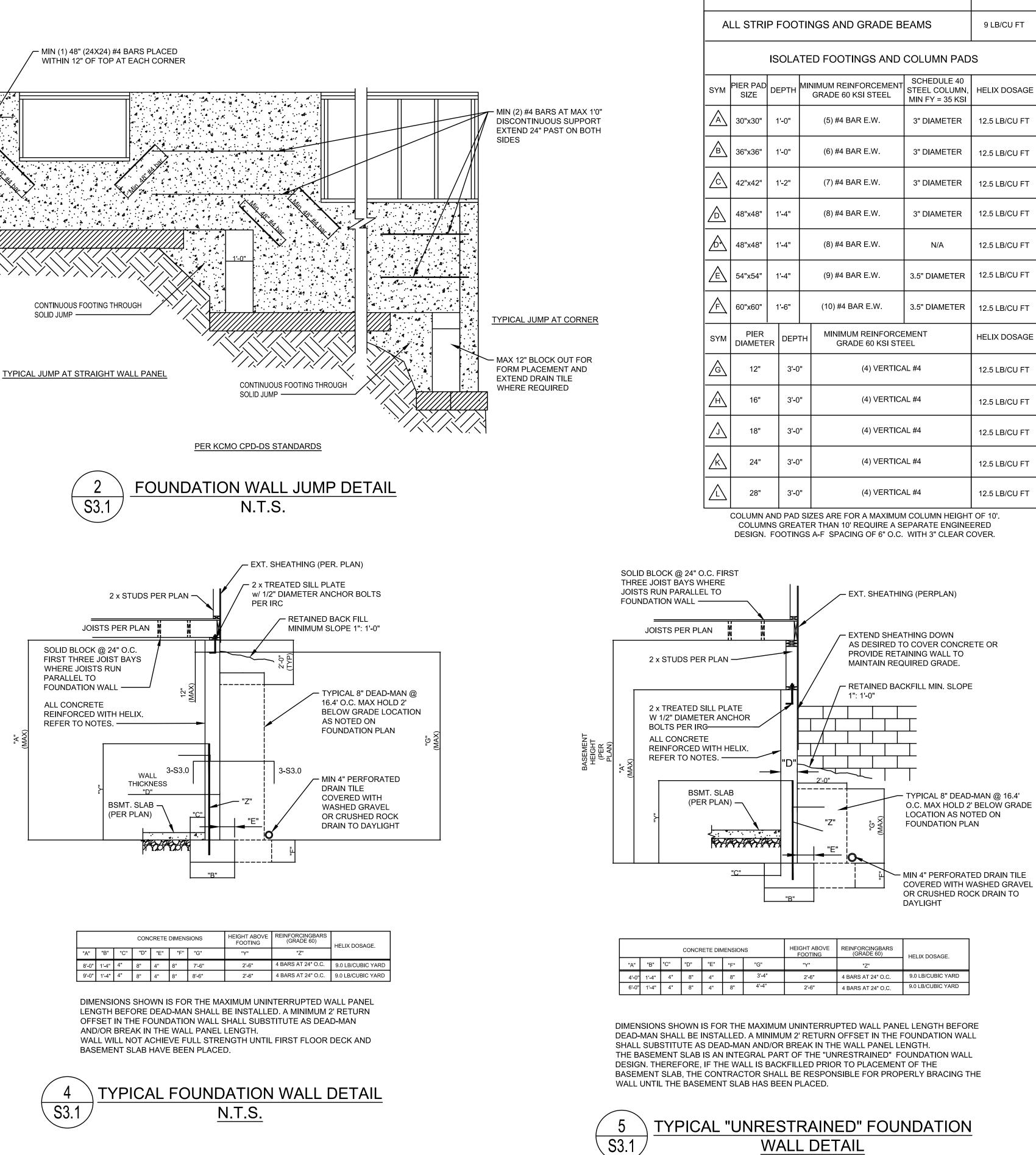
#### **HELIX DOSING INSTRUCTIONS:**

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).







		HE	ELIX	FO	OTING TABLE		HELIX DOSAGE
١.	LL STRI	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
•	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	'-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"	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"	60"x60" 1'-6"			(10) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT
	PIER DIAMETER		DEP.	ТΗ	MINIMUM REINFORCE GRADE 60 KSI STE	HELIX DOSAGE	
	12"	12" 3'-0" (4) VERTICAL #4		AL #4	12.5 LB/CU FT		
	16" 3'-0"		)"	(4) VERTICA	12.5 LB/CU FT		
	18"	18" 3'-0"		)"	(4) VERTICA	12.5 LB/CU FT	
	24" 3'-0"		)"	(4) VERTICA	12.5 LB/CU FT		
	28"	28" 3'-0" (4) VERTICAL #4			12.5 LB/CU FT		

NSIONS		HEIGHT ABOVE FOOTING	REINFORCINGBARS (GRADE 60)	HELIX DOSAGE.	
"F"	"G"	"Y"	"Z"	HEEK BOOKGE.	
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

