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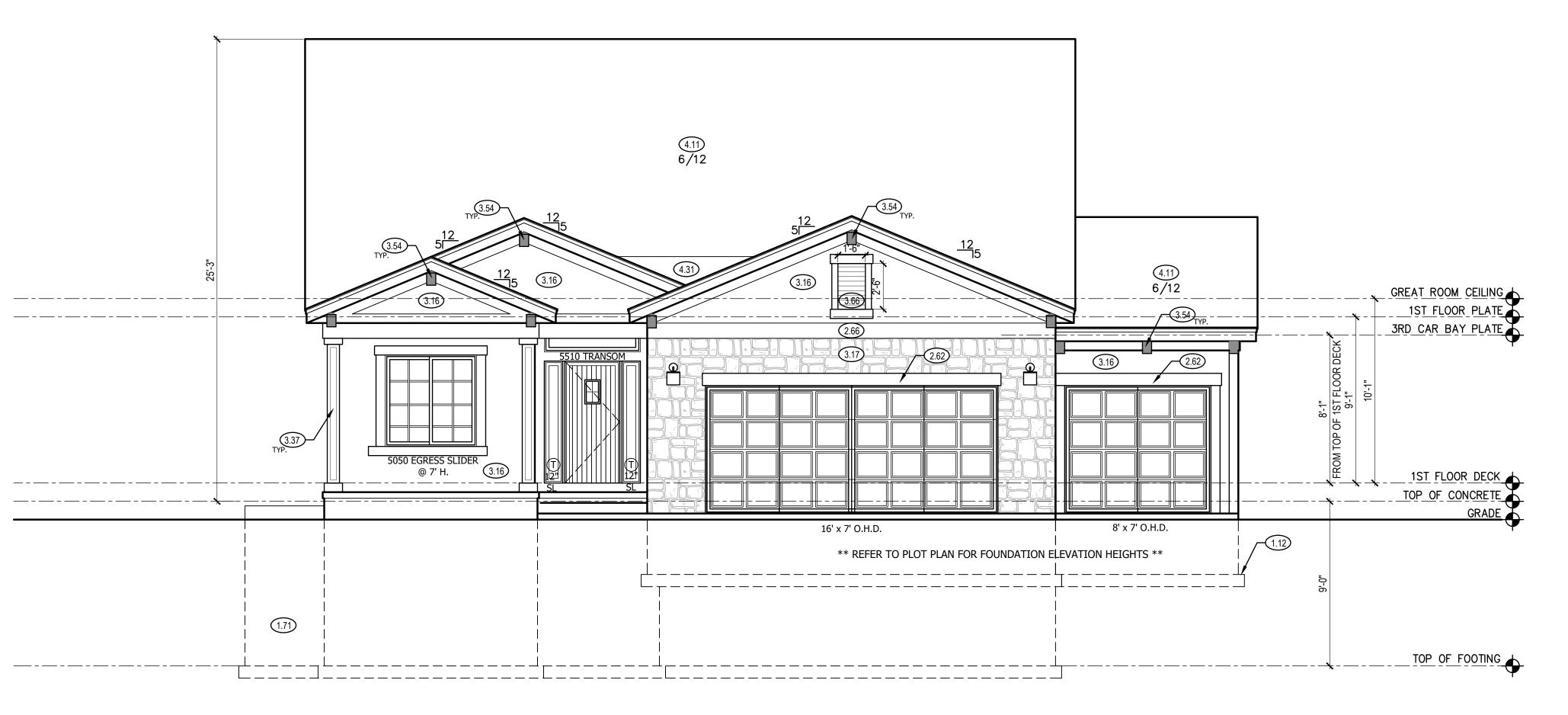
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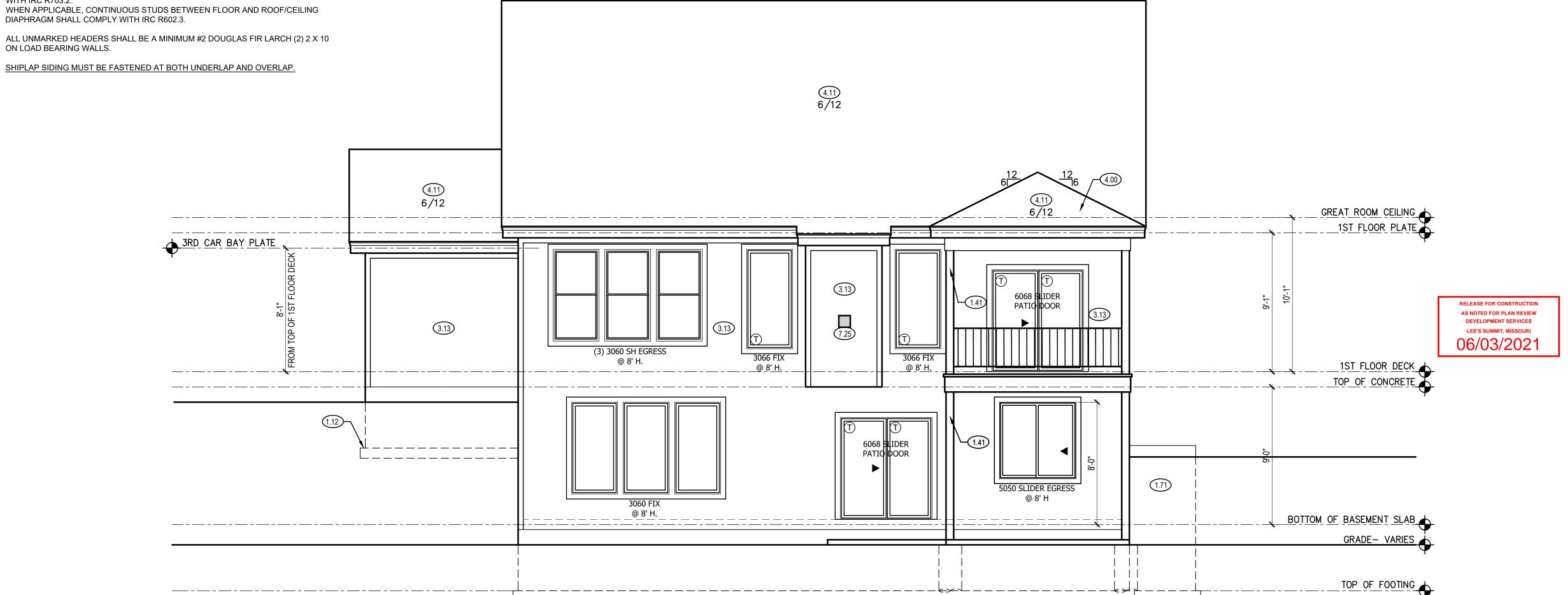
ELEVATIONS: GARAGE DOORS SHALL MEET DASMA FOR ULTIMATE DESIGN WIND SPEED OF 115

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

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

ON LOAD BEARING WALLS.

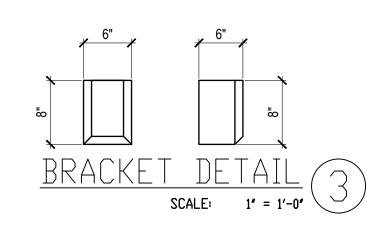


FRONT & REAR ELEVATION NOTES

- 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 OF FOUNDATION.
- 2.62 DOUBLED 5/4"X8" LP SMART TRIM. 1 1/2" ARCH ON GARAGE DOOR TRIM UNLESS NOTED OTHERWISE ON ELEVATION.
- 2.66 5/4"X10 LP SMART TRIM.
- 3.13 LP SMART PANEL SIDING WITH 3/4X4 LP SMART TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. BOTTOM OF SIDING SHALL BE A MINIMUM OF 6" ABOVE GRADE.
- 3.16 STUCCO, SHEATHED WITH 15/32" THICK OSB RATED 24/0 SHEATHING. EXTEND STUCCO TO WITHIN 8" OF FINISHED GRADE. 5/4X6 LP SMART TRIM AROUND WINDOWS AND DOORS UNLESS NOTED OTHERWISE.
- 3.17 MANUFACTURED STONE VENEER.
- 3.37 BOX COLUMN WITH 1X8 LP PANEL WRAP. 1X6 TRIM AT BASE. 1X4 TRIM AT TOP. 1X2 VERTICAL TRIM ALL SIDES. SEE FLOOR PLAN FOR FINISHED SIZE.

3.54 6"X8"X6" CEDAR CORBEL WITH CHAMFERED EDGES

- 3.66 DECORATIVE FALSE LOUVERED VENT WITH 1X6 LP SMART BOARD.
- 4.00 COVERING WILL HAVE 1 ROOF VENT AND 4 SOFFIT 4.11 MINIMUM ROOFING COMPOSITION- 30 YR COMPOSITE
- SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR AS REQUIRED BY CODE. 4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION
- FOR POSITIVE DRAINAGE.
- 7.25 TOP OF FIREPLACE VENT TO BE 3'-8" ABOVE FIRST FLOOR DECK.



GENERAL NOTES

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

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD 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.

SHEET INDEX

- A1. FRONT AND REAR ELEVATION
- A2. LEFT AND RIGHT ELEVATION
- A3. FOUNDATION LEVEL PLAN
- A4. MAIN LEVEL PLAN
- A5. UPPER LEVEL PLAN
- A6. ROOF PLAN

EVERSTEAD

FINISHED	
MAIN FLOOR	1628
LOWER LEVEL - FINISHED	987
TOTAL	2615
UNFINISHED	
LOWER LEVEL - UNFINISHED	475
COVERED DECK	144
GARAGE	704

LEE'S SUMMIT, MO 64063 816-399-4901

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EVERSTEAD

600 SW JEFFERSON SUITE 300

DRAWN BY: C.HOOPER

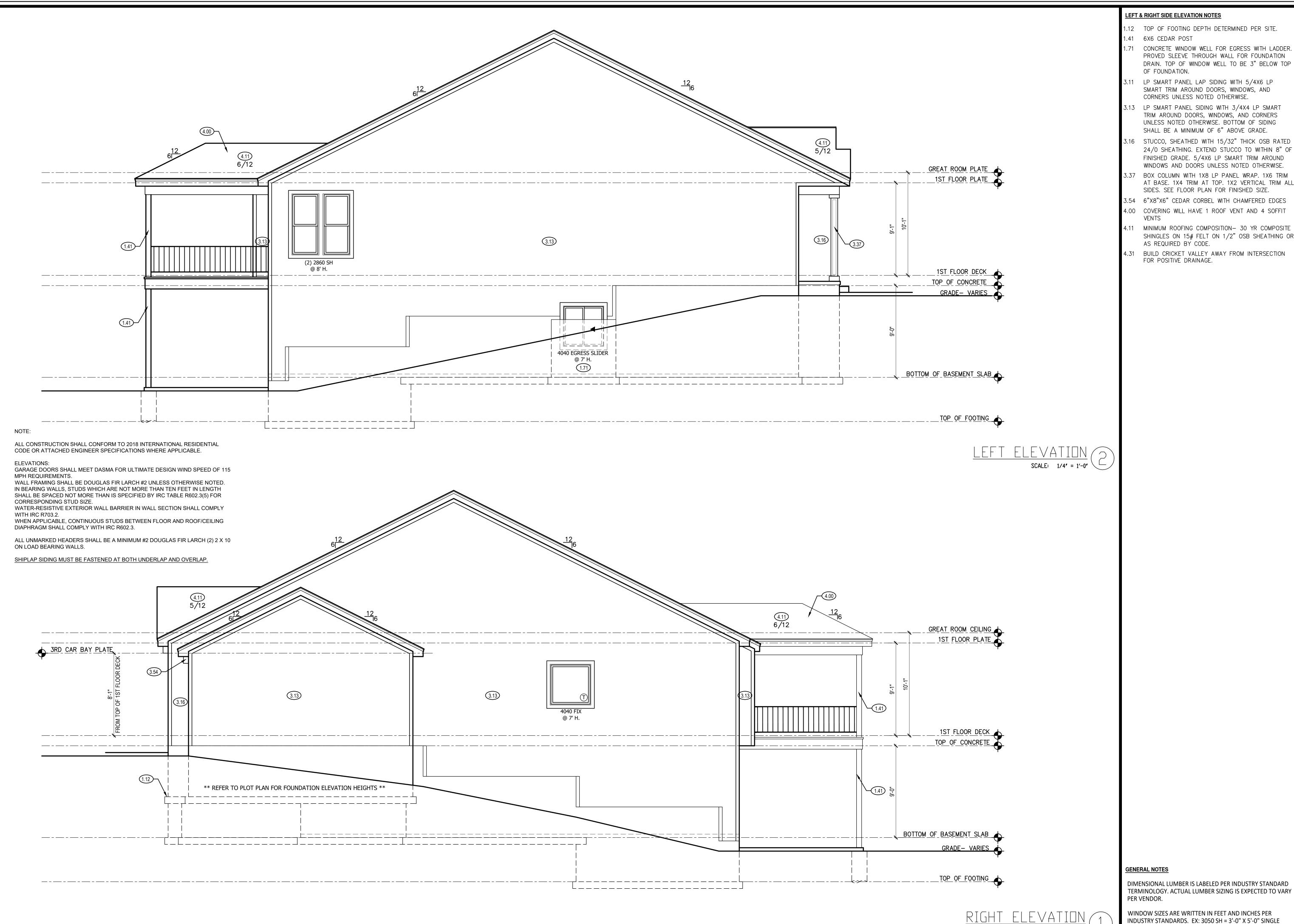
ENGINEER	TRUSS	I-JOIST

WHEELER

ISSUE DATE:
05.18.21

			REVISIONS
ı	NO.	DATE	DESCRIPTION
ı	1		
ı	2		
ı	$\sqrt{3}$		
	$\overline{\Lambda}$		

SHEET NUMBER:



LEFT & RIGHT SIDE ELEVATION NOTES

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 OF FOUNDATION.

3.11 LP SMART PANEL LAP SIDING WITH 5/4X6 LP SMART TRIM AROUND DOORS, WINDOWS, AND 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 SHALL BE A MINIMUM OF 6" ABOVE GRADE.

3.16 STUCCO, SHEATHED WITH 15/32" THICK OSB RATED 24/0 SHEATHING. EXTEND STUCCO TO WITHIN 8" OF FINISHED GRADE. 5/4X6 LP SMART TRIM AROUND WINDOWS AND DOORS UNLESS NOTED OTHERWISE.

3.37 BOX COLUMN WITH 1X8 LP PANEL WRAP. 1X6 TRIM AT BASE. 1X4 TRIM AT TOP. 1X2 VERTICAL TRIM ALL SIDES. SEE FLOOR PLAN FOR FINISHED SIZE.

3.54 6"X8"X6" CEDAR CORBEL WITH CHAMFERED EDGES 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 AS REQUIRED BY CODE.

4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.

SUMMIT

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EVERSTEAD 600 SW JEFFERSON SUITE 300 LEE'S SUMMIT, MO 64063 816-399-4901

> DRAWN BY: C.HOOPER

ISSUE DATE: 05.18.21

SHEET NUMBER:

HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.

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IF BASEMENT SLAB ELEVATION IS ABOVE GRADE CONSULT ENGINEER.

STEEL BEAM FLANGE WIDTH: W8 x 28- 6.54" W8X21 - 5.27" W8X13 - 4"

GLU-LAMS SHALL BE: DF 24F-V4 - WESTERN

ISOLATED FOOTINGS AND COLUMN PADS SCHEDULE 40 60 KSI STEEL | FY = 35 KSI/A\| 30"×30"| 1'-0" | (5) #4 BAR E.W. 3" DIAMETER /B\|36"×36"|1'-0"| (6) #4 BAR E.W. 3" DIAMETER /C \| 42"×42"| 1'-2" | (7) #4 BAR E.W. 3" DIAMETER $f(x) = \frac{1}{48} \times 48'' + \frac{1}{48} = \frac{1}{48} = \frac{1}{48} \times 48'' + \frac{1}{48} = \frac{1}{48}$ 3" DIAMETER ∕E∖|54″×54″|1′−4″| (9) #4 BAR E.W. | 3.5" DIAMETER /F\|60"x60"|1'-6"| (10) #4 BAR E.W. |3.5" DIAMETER NO COLUMN ANY SIZE FOOTING WITH AN (*)

NEEDED ISOLATED FOOTINGS AND COLUMN PADS | SYM | DIAMETER | KSI STEEL 12" (4) VERTICAL #4 (4) VERTICAL #4 18" (4) VERTICAL #4 3'-0" 24" 3'-0" (4) VERTICAL #4 28" (4) VERTICAL #4

COLUMN AND PAD SIZES ARE FOR A MAXIMUM COLUMN HEIGHT OF 10'. COLUMNS GREATER THAN 10' REQUIRE A SEPARATE ENGINEERED

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.

PATIO W/ COVERED DECK ABOVE 10'-0"

W8x13 STLIBM

UNFINISHÈD

32" WIDE x 12" DEEP CONTINUOUS FOOTING W/ (4) #4 CONTINUOUS

AND #4 @ 9" OC TRANSVERSE ALONG REAR GARAGE WALL

JNEXCAVATED

REF. SHEET S3.0 FOR

ANCHOR PER ANCHOR PER

16'-4"

22'-4"

50'-0"

TRUCTURAL GARAGE SLAB DETAILS

** REFER TO PLOT PLAN FOR FOUNDATION ELEVATION HEIGHTS **

METHOD PFH

3'-0"

MECHANIÇAL

-#2 2x12 FLUSH

|**----**

10'-8"

-6" CONC SLAB WITH #4

METHOD PFH

3'-0"

BARS AT 12" OC EW

-END CONDITION #1 24"

AS REQD BY GRADE

AS REQD BY GRADE

10'-8"

8'-4"

10'-0"

STEP DOWN-

RETURN PANEL

BWL 1

,—8"x4'-0" CONCRE†E WALLS WITH

#4 BARS AT 18" OC HORIZONTAL

AND 36" ϕ C VERTICAL PER S2.0 ON 16"x8" CONCRETE FTGS WITH (2) #4 BARS CONTINUOUS

11'-10" 3'-4 1/2" 3'-4 1/2" 4 20" WIDE CONTINUOUS FOOTING W/ (2) #4 CONTINUOUS ALONG REAR WALL 4 **₱**ND CONDITION #1 24"— CONC PAD. (3) 3060 FIXED RETURN PANEL 5050 EGRESS SLIDER 8'H. — @ 8'H. — #--- PATION LIDER — -3-1/2" x 9-1/4" GLULAM

1 @ 16"OC

JNFINISHED

#2-2 x 12 @ 16"OC 6'-6"

+----

STORAGE 50 16" C

6'-0"

FULL HEIGHT CONTINUOUS 6 x 6

POST BASE, TYP

CEDAR POST ON SIMPSON ABU66

2),#2-2 x 10 CONTINUQU

BEDROOM AS REQD BY GRADE REC ROOM STEP DOWN-

(2) #2-2 x 12 TRTD

12' X 12'

12'-0"

(2) 20 x 68 W8x21 STL BN

SOLID BLOCKING BETWEEN JOISTS AT 48" OC - EXTEND BLOCKING ONE JOIST BAY PAST 5 EACH SIDE OF ISLAND ABOVE 2.42 16" x 8" CONC GRADE BEAM w/ (2) #4 CONT.

4ľ WIDE CONTINUOUS FOOTING W/ (2) 🙌 _

CONTINUOUS ALONG FRONT WALL

17'-8"

4'-4" STEP DOWN-

AS REQD BY GRADE

8" x 9'-0" CONCRETE FDTN WALLS

WITH #4's AT 18" OC HORIZONTAL

BARS CONTINUOUS_

AND 12" OC VERTICAL PER S2.0 ON

16"x8" CONCRETE FTGS WITH (2) #4

AS REQD BY GRADE

PAD DEPTH REINFORCEMENT GRADE COLUMN, MIN

DEPTH MINIMUM REINFORCEMENT GRADE 40

DESIGN. FOOTINGS A-F SPACING OF 6" O.C. WITH 3" CLEAR COVER.

- 2.32 INSULATE CANTILEVER AS REQUIRED PRIOR TO BLOCKING
- 2.34 PROVIDE ADDITIONAL BRACING FOR ISLAND ABOVE.

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

- 2.41 CURB STAIR SYSTEM WITH OPEN HANDRAILS 2.42 FIRE RATED SHEETROCK UNDER STAIRS
- 6.11 DIRECT FURNACE. FUEL BURNING APPLIANCES SHALL BE DIRECT VENTED TO EXTERIOR FOR COMBUSTION
- 6.21 HOT WATER HEATER WITH THERMAL EXPANSION CONTROL DEVICE
- 6.31 SUMP PIT AND PUMP. PROVIDE ELECTRICAL GFCI
- PROTECTION. PROVIDE SLEEVE THROUGH FOOTING.

FOUNDATION PLAN NOTES

1.00 HOLD SILL PLATE BACK 2"

1.01 HOLD SILL PLATE BACK 4"

OF FOUNDATION.

1.11 CONTINUOUS CONCRETE FOOTING

1.21 RECESS TOP OF FOUNDATION WALL

- 6.41 HVAC CHASE ABOVE 6.61 200 AMP ELECTRICAL PANEL. LOCATION TO BE
- DETERMINED ON SITE. 6.62 UFER GROUND- VERIFY LOCATION WITH PROJECT
- MANAGER.
- 7.65 LINE OF FLOOR ABOVE

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> DRAWN BY: C.HOOPER

ISSUE DATE: 05.18.21

SHEET NUMBER:

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

ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS.

GENERAL NOTES

PER VENDOR.

CAUSED BY THERMAL EXPANSION.

SHALL BE OF DECAY-RESISTANT MATERIALS.

ALL INTERIOR NON-LOAD BEARING, NON-BRACED,

NON-CABINET WALLS ARE ALLOWED AT 24" O.C.

BACK WATER VALVES REQUIRED ON ALL BASEMENT PLUMBING

ALL SILLS & SLEEPERS SUPPORTED ON CONCRETE OR MASONRY

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD

TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY

SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS

FIXTURES. PROVIDE MEANS OF CONTROLLING PRESSURE

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

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

DETAILS AND NOTES: 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

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 8.22 CONTINUOUS FLAT VANITY 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 6" 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

MAIN FLOOR PLAN NOTES

.22 EXPOSED TOP OF FOUNDATION WALL.

2.11 DOUBLE 2X4 STUD WALL

2.12 2X6 STUD WALL 31 SIX SIDED TUB ASSEMBLY INCLUDING THERMOPLY ON EXTERIOR WALL TO 2" ABOVE TOP OF TUB DECK OR TUB/SHOWER UNIT

.32 INSULATE CANTILEVER AS REQUIRED PRIOR TO BLOCKING

BASEMENT EGRESS WINDOWS ARE TO 2.51 3 STUDS BETWEEN WINDOW UNITS

3.37 BOX COLUMN WITH 1X8 LP PANEL WRAP. 1X6 TRIM AT BASE. 1X4 TRIM AT TOP. 1X2 VERTICAL TRIM ALL SIDES. SEE FLOOR PLAN FOR FINISHED SIZE.

.51 SINGLE BOX VAULT

5.05 HOSE BIBB

5.11 SOAKER TUB: SEE PLAN FOR DETAILS 5.22 TILE BASE WITH TILE WALLS: SEE DETAIL.

5.51 1'-10"X3'-0" MINIMUM ATTIC ACCESS WITH 3/4" BACKER BOARD AND 2 LATCHES. BUMP TRUSSES FOR ATTIC ACCESS.

.21 DIRECT VENT FIREPLACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FIREPLACE PLATFORM DIMENSIONS 7 $\frac{3}{4}$ TALL, 37" WIDE, 16" DEEP. INSTALL INSULATION AND AIR BARRIER BEHIND PLATFORM.

.41 OPEN HANDRAILS

.42 PROVIDE ADDITIONAL BLOCKING UNDER SUBFLOOR @ 6'-0" O.C. FOR OPEN HANDRAIL.

7.71 20 MINUTE FIRE RATED SOLID CORE WITH SELF-CLOSING HINGES

.88 CHANGE IN FLOORING MATERIAL

3.11 24" CABINET + 12" OVERHANG FLAT ISLAND. VERIFY LOCATION WITH PERSONAL BUILDER.

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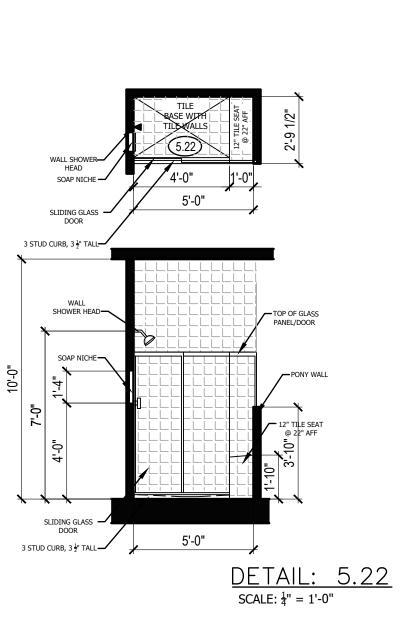
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HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.

FULL HEIGHT CONTINUOUS 6 x 6 EXTERIOR BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL



IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL)

CEILING WOOD FRAME WALL WALL

R-VALUE

20 OR 13+5

FLOOR BASEMENT SLAB R-VALUE CRAWL SPACE

R-VALUE

R-VALUE | WALL R-VALUE | & DEPTH

EXTERIOR BRACING CS-WSP PER IRC R602.10

INTERIOR BRACING LIB PER IRC R602.10

PANELS PER IRC R602.10.5.2)

55" - 8' TALL WALL HEIGHT

62" - 9' TALL WALL HEIGHT

69" - 10' TALL WALL HEIGHT

GIRDER TRUSS BEARING:

SUPPORTING MEMBER.

AND/OR FOUNDATION BELOW.

GLU-LAMS SHALL BE:

CLIMATE | FENESTRATION | SKYLIGHT |

.32

ZONE

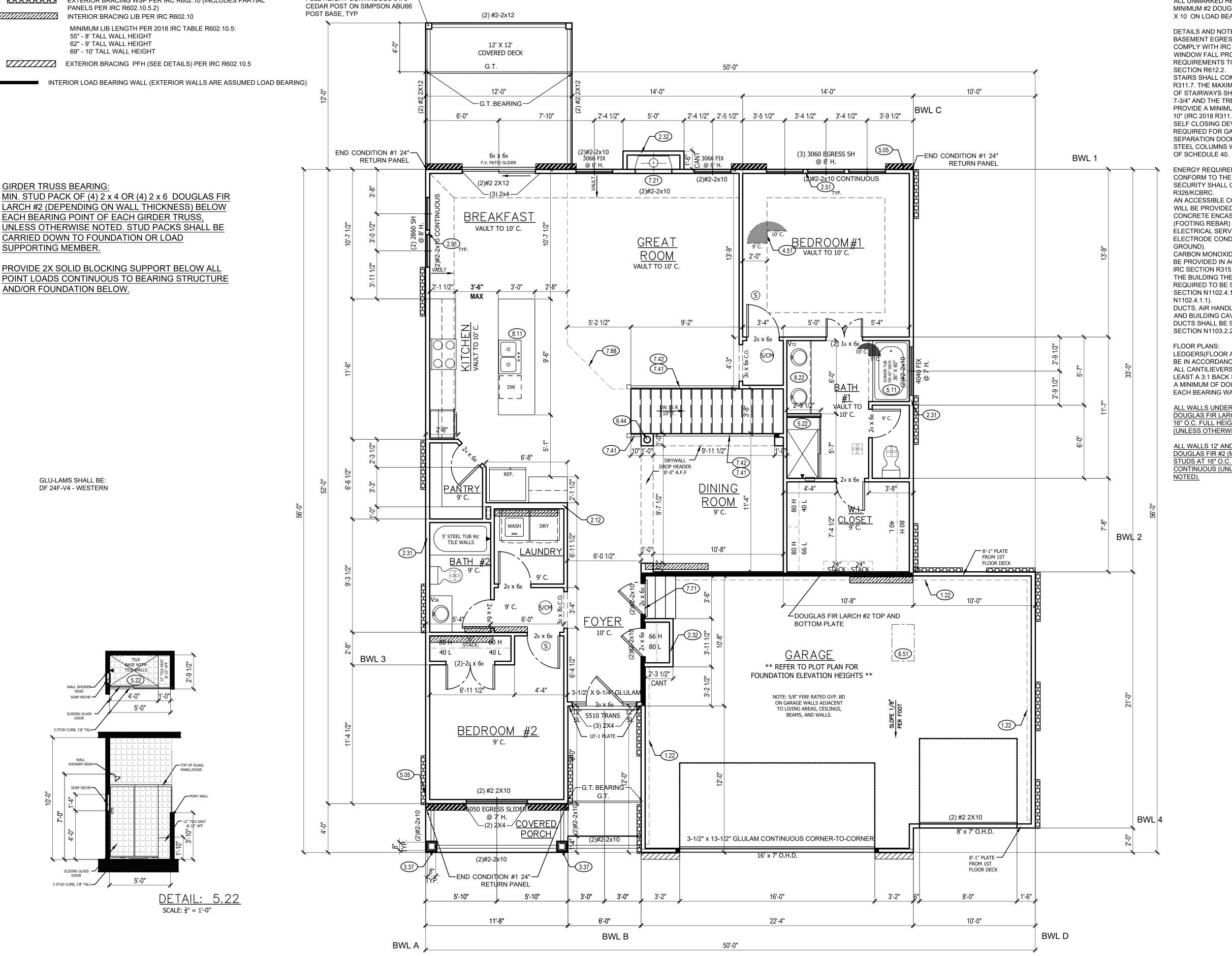
4 EXCEPT

MARINE

U-FACTOR U-FACTOR FENESTRATION CEILING R-VALUE

DF 24F-V4 - WESTERN

CARRIED DOWN TO FOUNDATION OR LOAD



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.

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

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.

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.

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WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE

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TRUSS ROOF NOTES: (BY OTHERS) DESIGNED FOR LIGHT ROOF COVERING TOP CHORD:

LIVE LOAD/SNOW LOAD (PSF): 25 DEAD LOAD (PSF): BOTTOM CHORD:

DEAD LOAD(PSF): 2) ALL EXTERIOR AND/OR LOAD BEARING WALL HEADERS SHALL BE MIN. (2) #2 2 x 10 UNLESS OTHERWISE NOTED. 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

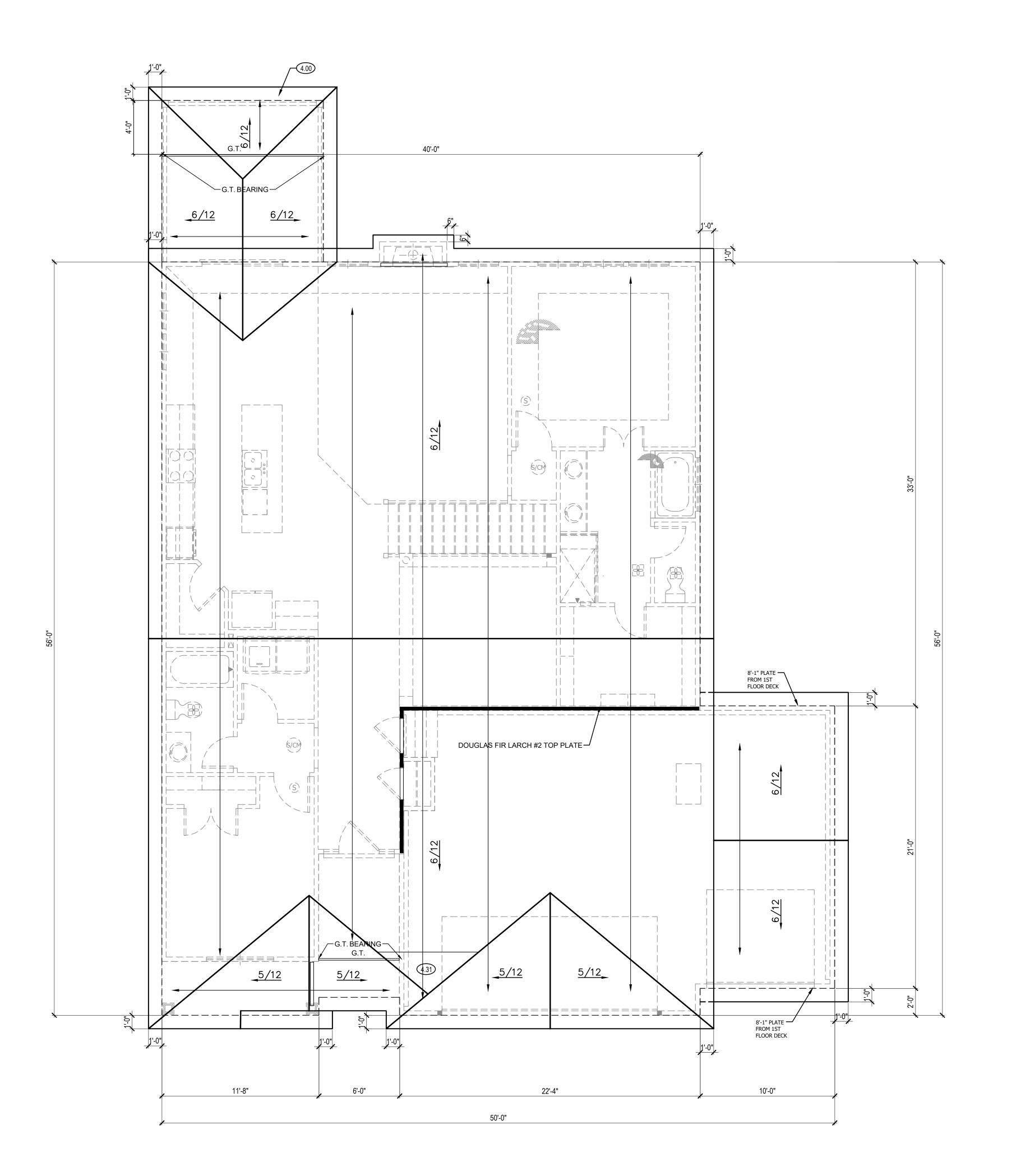
ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

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.



ROOF PLAN NOTES

- 4.00 COVERING WILL HAVE 1 ROOF VENT AND 4 SOFFIT
- 4.11 MINIMUM ROOFING COMPOSITION- 30 YR COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR AS REQUIRED BY CODE.
- 4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.



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DRAWN BY:

C.HOOPER

GENERAL NOTES

ROOF AND CEILING FRAMING ARE PRE-ENGINEERED ROOF

ASPHALT SHINGLES MIN 2/12. FLASH ALL PENETRATIONS AND INTERSECTIONS.

VENT EACH ENCLOSED ATTIC SPACE. NET AREA OPENING = 1/50TH OF VENTED AREA OR 1/300TH IF 580% OF VENTING NEAR TOP.

BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE. SEE FRAMING SPECIFICATIONS FOR

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.

HVAC DUCTWORK RUNNING THROUGH ATTIC SHALL BE HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION SURROUND. PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.

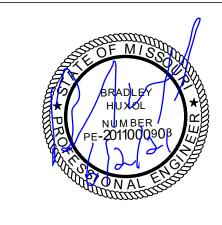
PROVIDE FOAM INSULATION AT EXTERIOR WHERE MAIN LEVEL ROOF LINE MEETS UPPER LEVEL WALLS.

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05.18.21

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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

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 I	NCLUDED IN	15 PSF DEAD LOAD)
•		•

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

ULTIMATE DESIGN WIND SPEED VELOCITY 115 MPH

SOIL AND SITE ASSUMPTIONS:

EXPOSURE CATEGORY

- 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 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
- 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 PROFESSIONAL ENGINEER.

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)

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

CONCRETE

- 1. ALL CONCRETE CONSTRUCTION SHOULD CONFORM TO ACI 318-11 AND THE 2018 INTERNATIONAL
- 2. THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE
- 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: -SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS BEFORE CONCRETE STRENGTH REACHES 70% OF STRENGTH DETERMINED BY CYLINDERS OR 28

-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

- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- 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 = $12x\emptyset_{BAR}$ -BEND DIAMETER = $12X\emptyset_{BAR}$
- 6. LAP SPLICE SCHEDULE (SEE TABLE 1.1)

HOOKED DOWELS:

- 7.1. HOOKED DOWELS FROM FOUNDATIONS TO WALL SHALL BE PROVIDED TO MATCH VERTICAL WALL
- REINFORCING AND EXTENDED TO 3" CLEAR FROM BOTTOM OF FOUNDATION 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
- 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.
- HORIZONTAL REINFORCEMENT:
 - A. ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL.
- B. OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" O.C. C. HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR); AND BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE INSIDE).
- 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.
- 5. AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 3-1/2". LEDGES SHALL NOT EXCEED 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 BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS (SEE TYPICAL DEAD MAN SECTION).

TABLE 1.1

	_	MAL WEIGHT SPLICE SCI	CONCRETE HEDULE, IN	Ξ		
BAR	TOP I	BARS	OTHER	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		

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
- 4. STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION
- 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

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

DRAWINGS:

- 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)
- 3. BOLTS SHALL CONFORM TO ASTM A307

COLUMNS:

ANCHOR RODS:

- 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
- 5. 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.

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.
- 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.
- 8. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER M1601.6 ENERGY CONSERVATION.

- 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 BALANCE SYSTEM.
- 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.
- 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.

5. HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1-1/4" TO 2-5/8" OR OTHER APPROVED

ASTM A53 GR. B (Fy= 35 KSI)

ASTM F1554 (Fy = 36 KSI)

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

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"
- 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.

FRAMING NOTES:

- 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

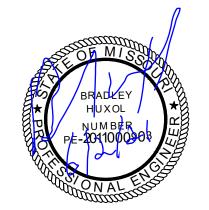
ATTACHED TO) SHALL BE OF DECAY RESISTANT MATERIAL.

- 6. ANY WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY (OR THE FURRING THEY ARE
- 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.

SHEET #

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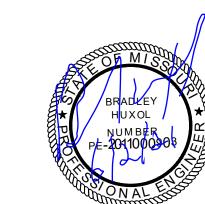


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SHEET#

06/03/2021

EVERSTEAD



(POUNDS) FOR 90 MPH				
EXPOSURE B	ENGINEEREI	D LUMBER MIN	IMUM DESIGN REQ	UIREMENTS
1,000		ft- (DOI)	E (DOI)	F /DOI
1,000		fb (PSI)	E (PSI)	Fv (PSI
1,000	VERSA-LAM LVL	3100	2.0x106	285
1,000	VEITO/TE/MIVIEVE	0.00	2.00100	200
1,200	DOUGLAS FIR-LARCH #2	900	1.6x106	180
1,000	TITCE/TITCE			
2,025	· · · · · · · · · · · · · · · · · · ·			1
2,400		CONTINUOUSLY SHEA BRACED WALL LIN		
1,200		*///////		
3,200			4//1	
3,200				

STRAP

CAPACITY

(POUNDS)

2,350

DR

WALL PANEL

LOCATIONS: 7"

EDGES (INCLUDING

TOP AND BOTTOM

PLATES) 7" FIELD

TABLE R602.3(1) | FOR ALL BRACED

MAXIMUM |

WIDTH

(FEET)

16

18

18

18

16

18

OPENING | REQUIRED

MAXIMUM

HEIGHT (FEET)

10

MINIMUM LENGTH OF BRACED WALL PANELS TABLE R602.10.5

(PARTIAL)

8 FEET

24

16

BRACING METHODS TABLE R602.10.4 (PARTIAL)

FOR EXTERIOR

LOCATIONS

NAILS OR

SCREWS PER

TABLE R702.3.5

FOR INTERIOR

	.] 5.,	
	9	1,000	
12	16	2,050	RETURN - BRACED WALL PANEL AT
	18	2,450	END OF BRACED WALL LINE END CONDITION 1
	9	1,500	CONTINUOUSLY SHEATHED
12	16	3,150	BRACED WALL LINE
	18	3,675	
	10	3,073	
		215 200 10 5	
) WALL P RTIAL)	'ANELS IA	BLE R602.10.5	
	LIMITENG	TH (INCHES)	
IVIIIVIIVI		` '	48" MIN. BRACED WALL PANEL AT
FFFT	WALL HEI		END OF BRACED WALL LINE
FEET	9 FEET	10 FEET	END CONDITION 3
16	16	16	CONTINUOUSLY SHEATHED BRACED WALL LINE
			10'-0" MAX
24	24	24	
24	27	30	
16	18	20	
			FIRST BRACED
			HOLD DOWN DEVICE WALL PANEL
			END CONDITION 5 CONTINUOUSLY SHEATHED
24	27	20	BRACED WALL LINE
24	27	30	
ARI F R60	10 4 (PAF	RTIAL)	
ABLE R602.10.4 (PARTIAL) CONNECTION CRITEIA		<u> </u>	
EAST	ENERS	SPACING	
	ERIOR	SPACING	
	HING PER	6" EDGES, 12"	
TABLE	R602.3(3)	FIELD	HOLD DOWN BRACED WALL PANEL AT END OF BRACED WALL LINE
	ERIOR HING PER	VADIEC DV	DEVICE END CONDITION 2
	R602.3(1)	VARIES BY FASTENER	CONTINUOUSLY SHEATHED
OR R	602.3(2)		BRACED WALL LINE
	RIOR	6" EDGES, 12"	
	HING PER R602.3(3)	FIELD	
	ERIOR		
	HING PER	VARIES BY	
	R602.3(1) 602.3(2)	FASTENER	
		055 150 05051011	RETURN
	SECTION 2.10.6.2	SEE IRC SECTION R602.10.6.2	PANEL — D* 10'-0" MAX FIRST BRACED
	-		* SEE REQ END CONDITION 4
	SECTION 2.10.6.3	SEE IRC SECTION	DECI IIDEMENTS.
K0U2	10.0.3	R602.10.6.3	REQUIREMENTS: RETURN PANEL: 24" FOR BRACED WALL LINES SHEATHED WITH
	D: 2-8d	WOOD: PER STUD	WOOD STRUCTURAL PANELS
	ON NAILS Bd NAILS	AND TOP AND BOTTOM PLATES	32" FOR FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL FIBERBOARD
OK 3-6	DU INAILO	DOLLOWIELATES	DISTANCE D: 24" FOR BRACED WALL LINES SHEATHED WITH WOOD STRUCTURAL PANELS
	STRAP:	METAL: PER	WOOD STRUCTURAL PANELS 32" FOR BRACED WALL LINES SHEATHED WITH
-	ER ACTURER	MANUFACTURER	STRUCTURAL FIBERBOARD
	_S OR		HOLD DOWN DEVICE: 800 # CAPACITY FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR
	WS PER		FLOOR FRAMING BELOW

END CONDITIONS FOR BRACED WALL

S1.0 SHEATHING (IRC FIGURE R602.10.7)

LINES WITH CONTINUOUS

		FLOOR			
21	JOST TO SILL, TOP PLATE OR GIRDER	4-8D BOX (2-1/2" X 0.113"); 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	TOE	NAIL	
	RIM JOIST, BAND JOIST OR	8d BOX (2-1/2"x0.113")	4" O.C. T	OE NAIL	
22	BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8D COMMON (2-1/2" X 0.131"); OR 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS	6" O.C. T	6" O.C. TOE NAIL	
23	1"x6" SUBFLOOR OR LESS TO EACH JOIST	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	FACE NAIL		
		FLOOR			
24	2" SUBFLOOR TO JOIST OR GIRDER	3-16D BOX (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2"x0.162")	BLIND AND	FACE NAIL	
25	2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	3-16D BOX (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2"x0.162")	AT EACH BEAR	ING, FACE NAIL	
26	BAND OR RIM JOIST TO JOIST	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	END	NAIL	
		20D COMMON (4" X 0.192"); OR	NAIL EACH LAYER AS F TOP END AND BOTTOM		
27	BUILT-UP GIRDERS AND BEAMS, 2"	10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS	24" O.C. FACE NAIL AT TOP AND BOTT STAGGERED ON OPPOSITE SIDES		
	LUMBER LAYERS	AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS	FACE NAIL AT ENDS AN		
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 RAFTER, FACE		
29	BRIDGING OR BLOCKING TO JOIST	2-10D BOX (3" X 0.128"); OR 2-8D COMMON (2-1/2" X 0.131"; OR 2-3" X 0.131") NAILS	EACH END, TOE NAIL		
	DESCRIPTION OF BUILDING		SPACING OF	FASTENERS	
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	EDGES (IN)	INTERMEDIA SUPPORTS (
30	3/8" - 1/2"	6d COMMON (2"x0.113") NAILS (SUBFLOOR, WALL) 8d COMMON (2-1/2"x0.131") NAIL (ROOF); OR RSRS-01 (2-38" X 0.113") NAIL (ROOF)	6 12		
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	
32	1-1/8" - 1-1.4"	10d COMMON (3"x0.148") NAIL OR 8D (2-1/2"x0.131") DEFORMED NAIL	6 12		
		OTHER WALL SHEATHING			
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	
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	
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	
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	
	WOOD STRUCTURA	L PANELS, COMBINATION SUBFLOOR UN	DERLAYMENT TO FF	RAMING	
37	3/4" AND LESS	6D DEFORMED (2"x0.120") NAIL OR 8D COMMON (2-1/2"x0.131") NAIL	6	12	
38	7/8" - 1"	8D COMMON (2-1/2"x0.131") NAIL OR 8D DEFORMED (2-1/2"x0.120") NAIL	6	12	
		10D COMMON (3"x0.148") NAIL OR			

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							

16'1 TO 18'		<i>D7</i> (14) 0
	Γ	
10		
19		SIZ
		6d CON
16		8d CON

							LOCATIONS	
F	REQUIREMENTS FC	R WOOD STRUCTURA	AL PANEL WALL SHEA	THING USED TO RESIS	T WIND PRESSU	RES IRC TABLE	602.3(3) (PARTIAL)	
MINIMU	M NAIL	MINIMUM WOOD STRUCTURAL	MINIMUM NOMINAL PANEL	MAX WALL STUD	PANEL NA	IL SPACING	ULTIMATE DESIGN WIND SPEED V ULT (MPH)	
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	1.75	24/16	7/16	16	6	12	170
80 COMMON	1.75	24/10	//10	24	6	12	140	

MINIMUM

FRAMING

NOMINAL

SIZE AND

GRADE

2x4 NO 2

GRADE

GRADE

CS-WSP

METHODS,

MATERIAL

WSP - WOOD

STRUCTURAL

PANEL

CS-WSP

CONTINUOUSLY

SHEATHED

WOOD

STRUCTURAL

PANEL

PFH - PORTAL

FRAME WITH

HOLD DOWNS

PFG - PORTAL

FRAME AT

GARAGE

LIB

LET-IN-BRACING

GB-GYPSUM

BOARD

METHOD

SUPPORTING

ROOF ONLY

SUPPORTING

ONE STORY

AND ROOF

ADJACENT

CLEAR

OPENING

HEIGHT

(INCHES)

LESS THAN OR

EQUAL TO 64

MINIMUM

THICKNESS

1x4 WOOD OR

APPROVED

METAL STRAPS

AT 45 TO 60

DEGREE

ANGLES FOR

MAX 16" STUD

SPACING

1/2

MAXIMUM PONY

WALL HEIGHT TOTAL WALL

ABLE R507/2 FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER 2" NOMINAL SOLID SAWN SPRUCE-PINE-FIR BAND JOIST (DECK LIVE LOAD = 40PSF,	
DECK DEAD LOAD = 10 PSF)	

2018 IRC TABLE R602.3(1) (SEE IRC FOR FOOTNOTES)

NUMBER AND TYPE OF FASTENER

4-8D BOX (2-1/2"x0.113") OR

4-8D BOX (2-1/2"x0.113") OR

3-10D BOX (3" x 0.128"); OR

3-3" x 0.131" NAILS

3-3" x 0.131" NAILS

TABLE R802.5.2

4-3" X 0.131" NAILS

4-3" X 0.131" NAILS

4-3" X0.131" NAILS

3-3" X 0.131" NAILS

3" X 0.131" NAILS

3" X 0.131" NAILS

4-10D BOX (3" X .128"); OR

4-16D (3-1/2"x0.135"); OR 3-10D COMMON (3" X 0.148"); OR

3-10D BOX (3" X .128"); OR

10d BOX (3"x0.128"); OR

16D BOX (3-1/2"x0.135"); OR

16D COMMON (3-1/2" X 0.162")

16D COMMON (3-1/2"x0.162")

5-8D BOX (2-1/2" X 0.113"); OR

16D COMMON (3-1/2" X 0.162")

4-8D COMMON (2-1/2" X 0.131"); OR

8-16D COMMON(3-1/2" X 0.162"); OR

12-16D BOX (3-1/2" X 0.135"); OR

12-10D BOX (3" X 0.128"); OR

16D COMMON (3-1/2" X 0.162")

4-8D BOX (2-1/2"x0.113") OR 3-16D BOX (3-1/2" x 0.135"); OR

4-10D BOX (3" x 0.128"); OR

3-10D BOX (3" x 0.128"); OR

3-10D BOX (3" X 0.128"); OR

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

3-8D BOX (2-1/2" X 0.113"); OR

3-10D BOX (3" X 0.128"); OR

4-8D BOX (2-1/2" X 0.113"); OR

3-10D BOX (3" X 0.128"); OR

WIDER THAN 1" X 8"

3-8D BOX (2-1/2" X 0.113"); OR

3-16D BOX (3-1/2" x 0.135"); OR

4-8D COMMON (2-1/2" X 0.131"); OR

2-16D COMMON (3-1/2" X 0.162"); OR

2-16D COMMON (3-1/2" X 0.162"); OR

2-8D COMMON (2-1/2" X 0.131"); OR

2-8D COMMON (2-1/2" X 0.131"); OR

3-8D COMMON (2-1/2" X 0.131"); OR

3-8D COMMON (2-1/2" X 0.131"); OR

2 STAPLES, 1" CROWN, 16 GA.., 1-3/4" LONG

3 STAPLES, 1" CROWN, 16 GA.., 1-3/4" LONG

4 STAPLES, 1" CROWN, 16 GA.., 1-3/4" LONG

16D BOX (3-1/2" X 0.135)

4-10D BOX (3" X 0.128")

10d BOX (3"x0.128"); OR

3" X 0.131" NAILS

12-3" X 0.131" NAILS

4-3" X 0.131" NAILS

4-3" x 0.131" NAILS

3-3" x 0.131" NAILS

3-3" X 0.131" NAILS

2 STAPLES 1-3/4"

16D COMMON (3-1/2" X 0.162")

4-10D BOX (3" X 0.128"); OR

3-8D COMMON (2-1/2" x 0.131"); OR

3-8D COMMON (2-1/2" x 0.131"); OR

3-16D COMMON (3-1/2" X 0.162"); OR

3-16d BOX NAILS (3-1/2"x0.135") OR

3-16d BOX NAILS (3-1/2"x0.135") OR

2-16D COMMON NAILS (3-1/2"x0.162"); OR

3-10d COMMON NAILS (3"x0.148"); OR

SPACING AND LOCATION

TOE NAIL

PER JOIST, TOE NAIL

FACE NAIL

FACE NAIL

FACE NAIL EACH RAFTER

2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL

ON OPPOSITE SIDE OF EACH RAFTER OR

TOE NAIL

END NAIL

24" O.C. FACE NAIL

16" O.C. FACE NAIL

12" O.C. FACE NAIL

16" O.C. FACE NAIL

16" O.C. ALONG EACH EDGE FACE NAIL

12" ALONG EACH EDGE FACE NAIL

TOENAIL

16" O.C. FACE NAIL

12" O.C. FACE NAIL

FACE NAIL ON EACH SIDE OF END JOINT

(MINIMUM 24" LAP SPLICE LENGTH EACH

SIDE OF END JOINT)

16" O.C. FACE NAIL

12" O.C. FACE NAIL

3 EACH 16" O.C. FACE NAIL

2 EACH 16" O.C. FACE NAIL

4 EACH 16" O.C. FACE NAIL

TOE NAIL

END NAIL

FACE NAIL

FACE NAIL

FACE NAIL

FACE NAIL

DESCRIPTION OF BUILDING

ELEMENTS

BLOCKING BETWEEN CEILING

CEILING JOSTS TO TOP PLATE

PARALLEL RAFTER LAPS OVER

CEILING JOIST ATTACHED TO

PARALLEL RAFTER (HEEL JOINT)

TO RAFTER

RAFTER OR ROOF TRUSS TO PLATE

ROOF RAFTERS TO RIDGE, VALLEY

OR HIP RAFTERS OR ROOF RAFTER

TO MINIMUM 2" RIDGE BEAM

STUD TO STUD (NOT AT BRACED

WALL PANELS)

STUD TO STUD AND ABUTTING

STUDS AT INTERSECTING WALL

CORNERS (AT BRACED WALL

PANELS)

BUILT-UP HEADER (2" TO 2"

HEADER WITH ¹/₂" SPACER)

CONTINUOUS HEADER TO STUD

TOP PLATE TO TOP PLATE

DOUBLE TOP PLATE SPLICE

BOTTOM PLATE TO JOIST, RIM

BRACED WALL PANELS)

TOP OR BOTTOM PLATE TO STUD

TOP PLATES, LAPS AT CORNERS

AND INTERSECTIONS

1" BRACE TO EACH STUD AND

PLATE

1"x6" SHEATHING TO EACH

BEARING

1"x8" AND WIDER SHEATHING TO

EACH BEARING

19

JOIST, BAND JOIST OR BLOCKING 16D BOX (3-1/2"x0.135"); OR

BOTTOM PLATE TO JOIST, RIM 3-16d BOX NAILS (3-1/2"x0.135") OR

JOIST, BAND JOIST BLOCKING (AT | 2-16D COMMON (3-1/2"x0.162"); OR

(NOT AT BRACED WALL PANELS) 3" X 0.131" NAILS

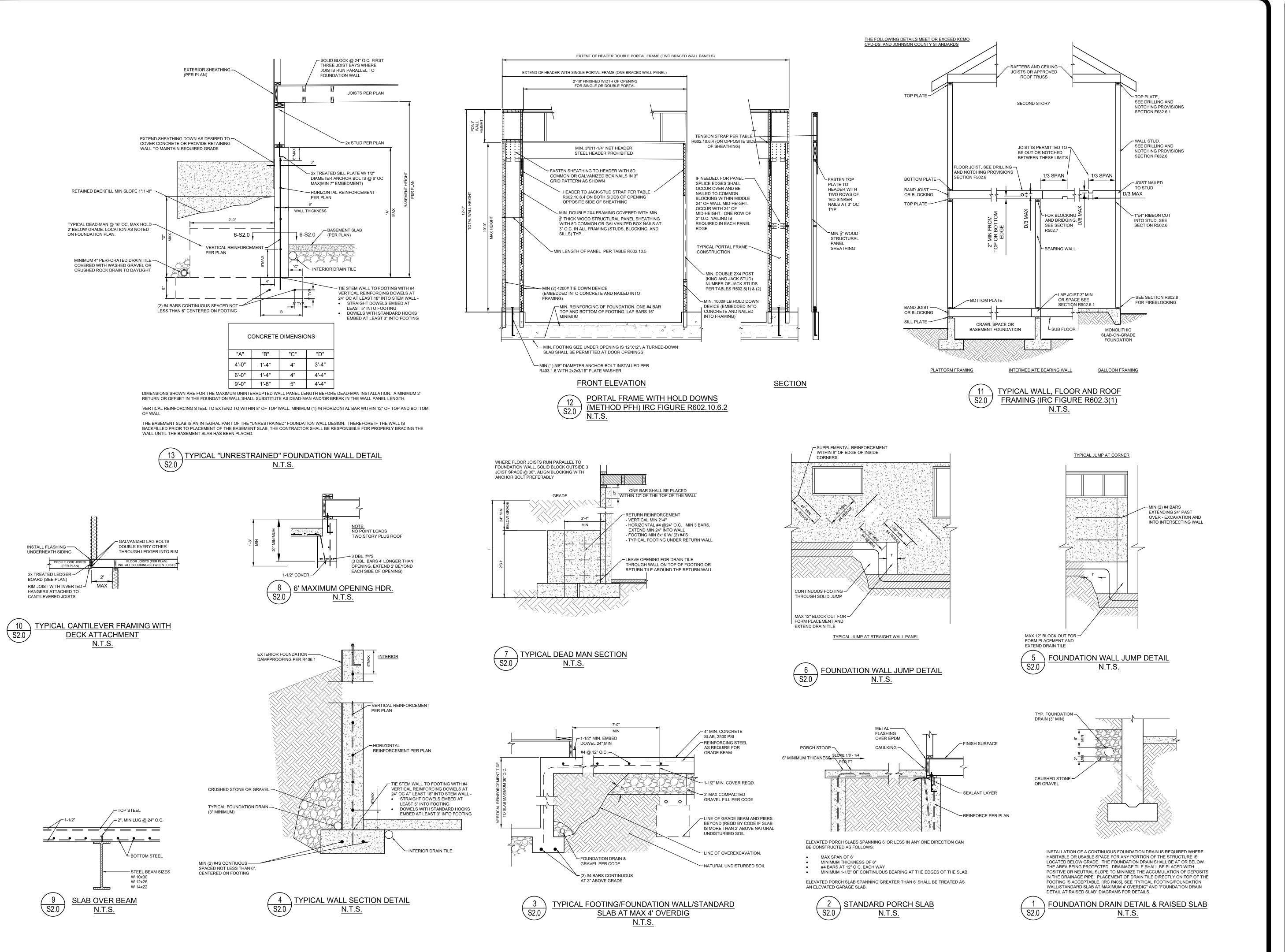
JOISTS OR RAFTERS TO TOP PLATE 3-10D BOX (3" x 0.128"); OR

CEILING JOISTS NOT ATTACHED TO 4-10D BOX (3" X 0.128"); OR

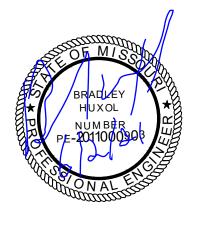
COLLAR TIE TO RAFTER, FACE NAIL 4-10D BOX (3" X 0.128"); OR OR 1-1/4"x20 GAGE RIDGE STRAP | 3-10D COMMON (3" X 0.148"); OR

ITEM

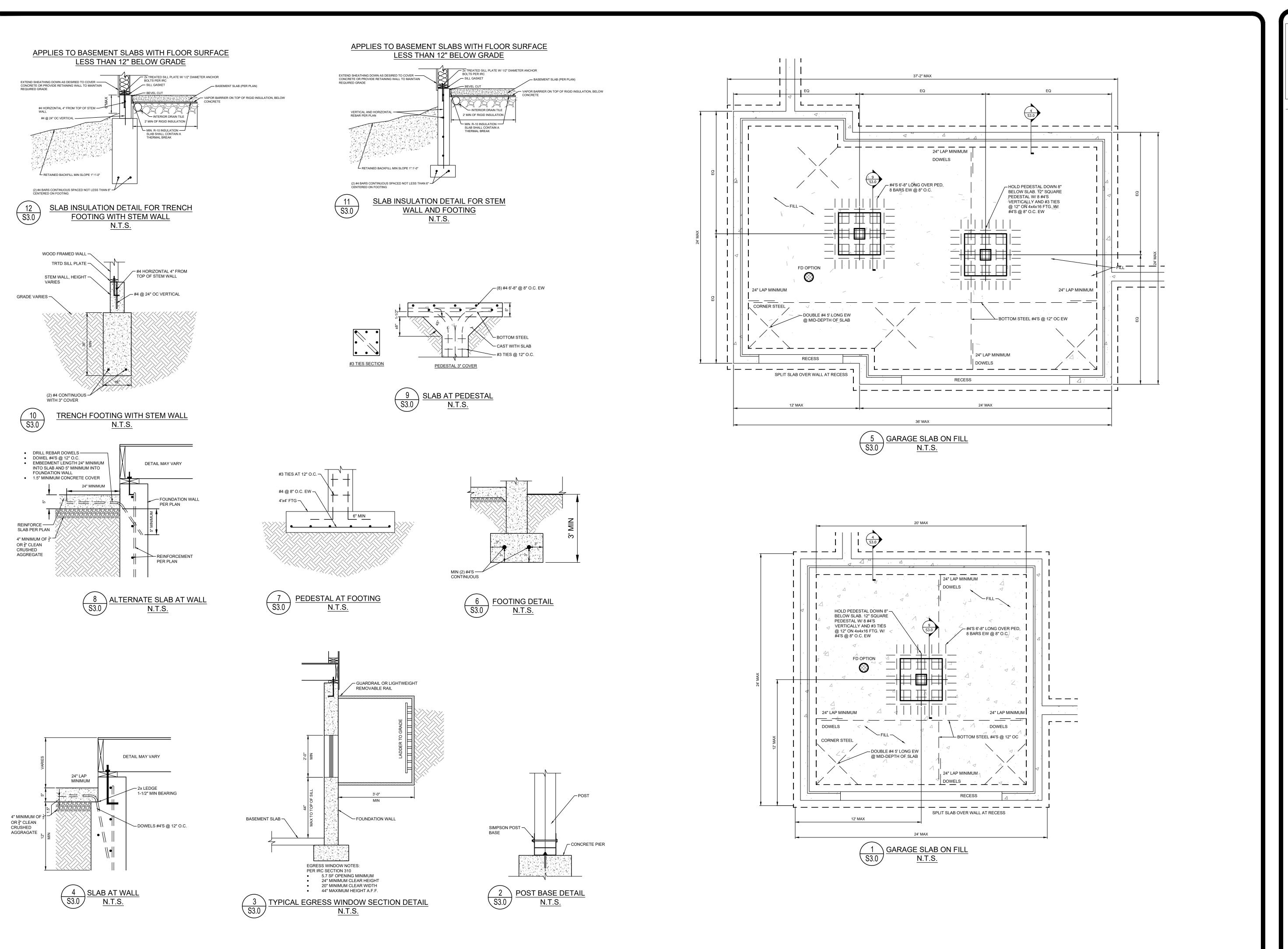
JOIST SPAN	6' AND LESS	6'1 TO 8'	8'1 TO 10'	10'1 TO 12'	12'1 TO 14'	14'1 TO 16'	16'1 TO 18'	
CONNECTION DETAILS	ON CENTER SPACING OF FASTENERS							
1/2" DIAMETER LAG SCREW WITH 15/32" MAX SHEATHING	30	23	18	15	13	11	10	
1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING	36	36	34	29	24	21	19	
1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING AND 1/2" STACKED WASHERS	36	36	29	24	21	18	16	

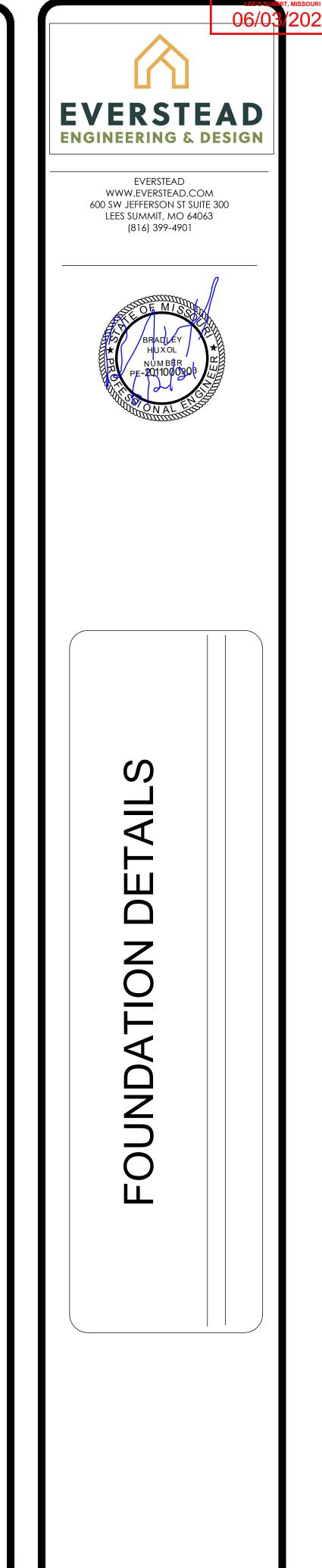






SHEET#





SHEET#

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

- 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.
- 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.

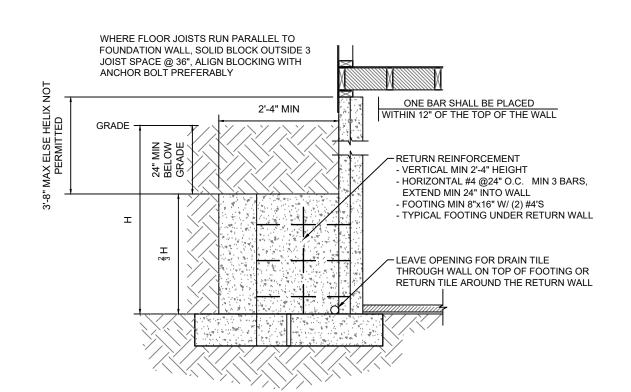
HELIX ALTERNATE DESIGN NOT VALID IF ANY ONE OF THE FOLLOWING CONDITIONS ARE MET:

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

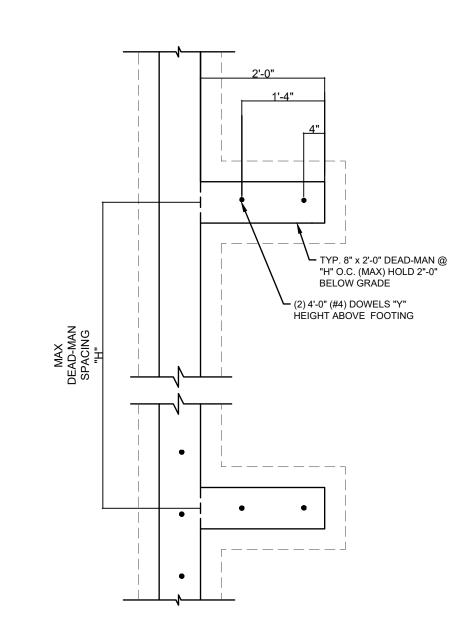
HELIX DOSING INSTRUCTIONS:

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.

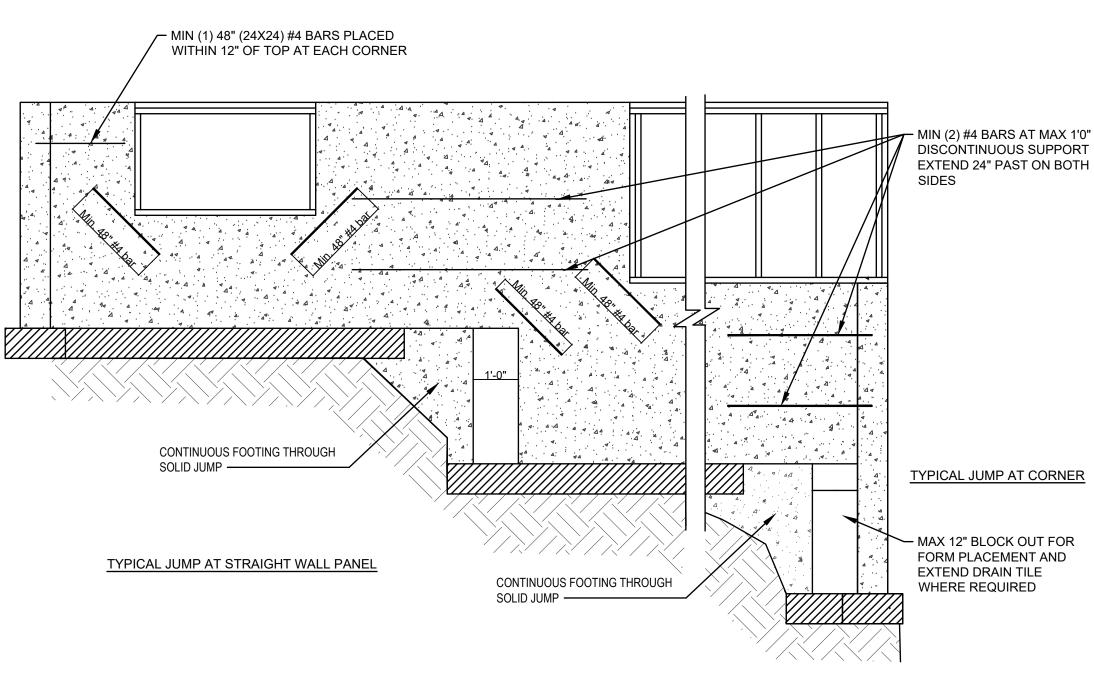
A SLUMP OF 125 MM OR 5" OR HIGHER WILL FACILITATE STRIKE OFF. A SLUMP OF LESS THAN 4" IS NOT RECOMMENDED AS THIS WILL PREVENT SURFACE SEGREGATION OF THE CEMENT AND FINES FROM THE AGGREGATE AND HELIX. SLUMP SHOULD BE MEASURED ON THE INITIAL LOAD AND ADJUSTMENTS MADE WITH A WATER REDUCER OR PLASTICIZER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





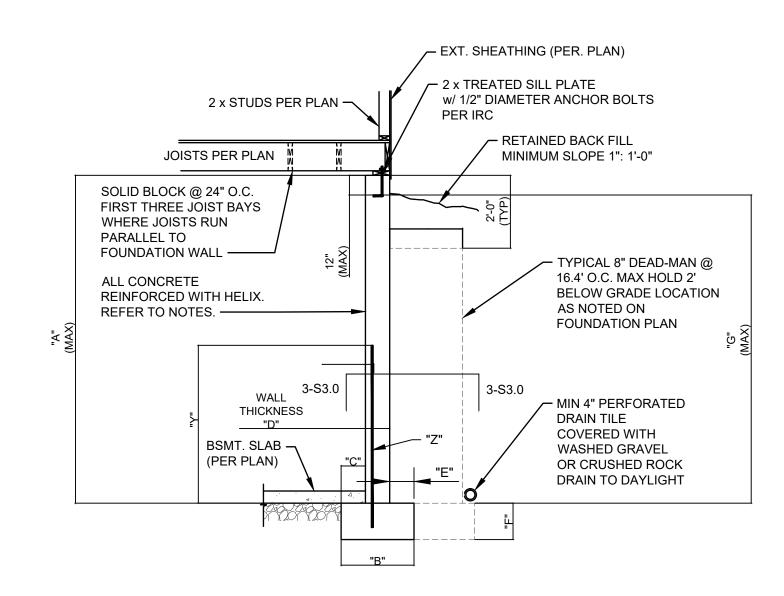


3 S3.1 TYPICAL DEAD MAN SECTION N.T.S.





PER KCMO CPD-DS STANDARDS



			CON	CRETE	DIMENS	SIONS	HEIGHT ABOVE FOOTING	REINFORCINGBARS (GRADE 60)	HELIX DOSAGE.
"A"	"B"	"C"	"D"	"E"	"F"	"G"	"Y"	"Z"	
8'-0"	1'-4"	4"	8"	4"	8"	7'-6"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD
9'-0"	1'-4"	4"	8"	4"	8"	8'-6"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD

DIMENSIONS SHOWN IS FOR THE MAXIMUM UNINTERRUPTED WALL PANEL LENGTH BEFORE DEAD-MAN SHALL BE INSTALLED. A MINIMUM 2' RETURN OFFSET IN THE FOUNDATION WALL SHALL SUBSTITUTE AS DEAD-MAN AND/OR BREAK IN THE WALL PANEL LENGTH.

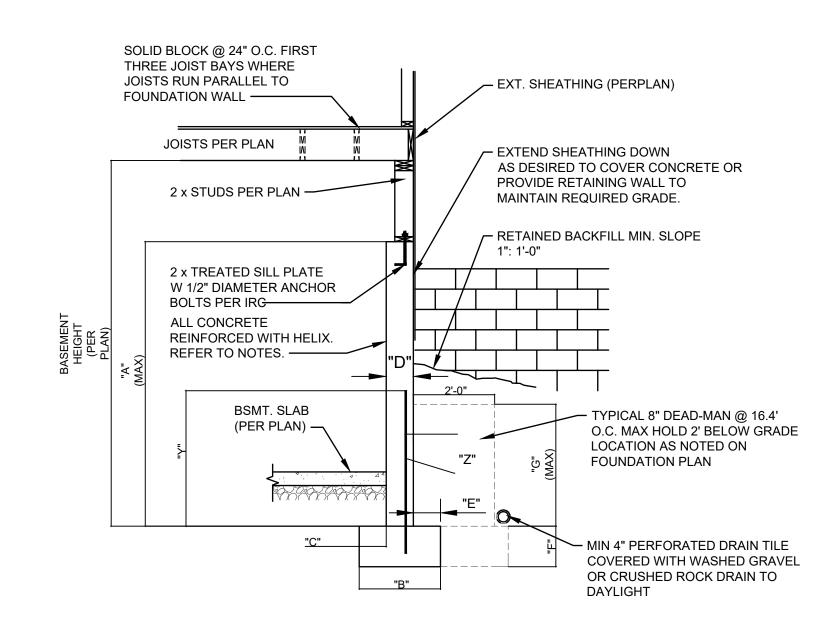
WALL WILL NOT ACHIEVE FULL STRENGTH UNTIL FIRST FLOOR DECK AND BASEMENT SLAB HAVE BEEN PLACED.

4 S3.1 TYPICAL FOUNDATION WALL DETAIL N.T.S.

		HELIX DOSAGE										
A	LL STRI	9 LB/CU FT										
	ISOLATED FOOTINGS AND COLUMN PADS											
SYM	PIER PAD SIZE	DE			NIMUM REINFORCEMENT GRADE 60 KSI STEEL	SCHEDULE 40 STEEL COLUMN, MIN FY = 35 KSI	HELIX DOSAGE					
A	30"x30"	1	'-0"		(5) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT					
B	36"x36"	1	'-0"		(6) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT					
<u> </u>	42"x42"	1	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	1'-4"		(8) #4 BAR E.W.	N/A	12.5 LB/CU FT					
A	54"x54"	1	'-4"		(9) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT					
A	60"x60"	1	'-6"		(10) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT					
SYM	PIER DIAMETE	ΞR	DEP	ТН	MINIMUM REINFORCE GRADE 60 KSI STE	HELIX DOSAGE						
Ğ	12"		3'-0	"	(4) VERTICA	12.5 LB/CU FT						
Â	16"		3'-0	,"	(4) VERTICA	12.5 LB/CU FT						
	18"		3'-0	,"	(4) VERTICA	12.5 LB/CU FT						
k	24"		3'-0	"	(4) VERTICA	12.5 LB/CU FT						
\triangle	28"		3'-0	,"	(4) VERTICA	AL #4	12.5 LB/CU FT					

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.



			CONCR	RETE DIM	MENSION	IS	HEIGHT ABOVE FOOTING	REINFORCINGBARS (GRADE 60)	HELIX DOSAGE.
"A"	"B"	"C"	"D"	"E"	"F"	"G"	"Y"	"Z"	TIELIK BOOKGE.
4'-0"	1'-4"	4"	8"	4"	8"	3'-4"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD
6'-0"	1'-4"	4"	8"	4"	8"	4'-4"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD

DIMENSIONS SHOWN IS FOR THE MAXIMUM UNINTERRUPTED WALL PANEL LENGTH BEFORE DEAD-MAN SHALL BE INSTALLED. A MINIMUM 2' RETURN OFFSET IN THE FOUNDATION WALL SHALL SUBSTITUTE AS DEAD-MAN AND/OR BREAK IN THE WALL PANEL LENGTH. THE BASEMENT SLAB IS AN INTEGRAL PART OF THE "UNRESTRAINED" FOUNDATION WALL DESIGN. THEREFORE, IF THE WALL IS BACKFILLED PRIOR TO PLACEMENT OF THE BASEMENT SLAB, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY BRACING THE WALL UNTIL THE BASEMENT SLAB HAS BEEN PLACED.



TYPICAL "UNRESTRAINED" FOUNDATION WALL DETAIL

N.T.S

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES **EVERSTEAD** WWW.EVERSTEAD.COM 600 SW JEFFERSON ST SUITE 300 LEES SUMMIT, MO 64063 (816) 399-4901 出

SHEET #

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DEVELOPMENT SERVICES

LEFTS SUMMIT, MISSOURI

06/03/2021