

REFERENCE KEYNOTES

01 - FOUNDATION

01.12 - TOP OF FOOTING DEPTH DETERMINED PER SITE.

CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVIDE SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION.

5/4"X8" LP SMART TRIM.

UNLESS NOTED OTHERWISE ON ELEVATION.

03 - SIDING

LP SMART LAP SIDING WITH 5/4X6 LP SMART TRIM 03.11 - AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE.

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.

03.15 - LP SMART BOARD AND BATTEN.

03.17 - MANUFACTURED STONE VENEER. 03.18 - CAST STONE CAP

6X6 CEDAR POST. 1X6 TRIM AT BASE. 1X4 TRIM AT TOP.

04 - ROOF

MINIMUM ROOFING COMPOSITION -04.11 - 30 YR COMPOSITE SHINGLES ON 15# FELT ON 7/16" OSB SHEATHING OR AS REQUIRED BY CODE.

07 - MISCELLANEOUS & PLAN NOTES

07.67 - BACK WALL OF GARAGE.

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EVERSTEAD 3741 NE TROON DR.

LEES SUMMIT, MO 64064

816-399-4901

VERSION:

ISSUE DATE:

02.26.24

SHEET NUMBER:

FARMHOUSE 1

TYPE	NAME	SQ FT
	MAIN FLOOR	970
FINISHED	UPPER LEVEL	1281
		2251
	FRONT PORCH	46
	GARAGE	699
UNFINISHED	LOWER LEVEL - UNFINISHED	826
	PATIO	120
		1691
		3941

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

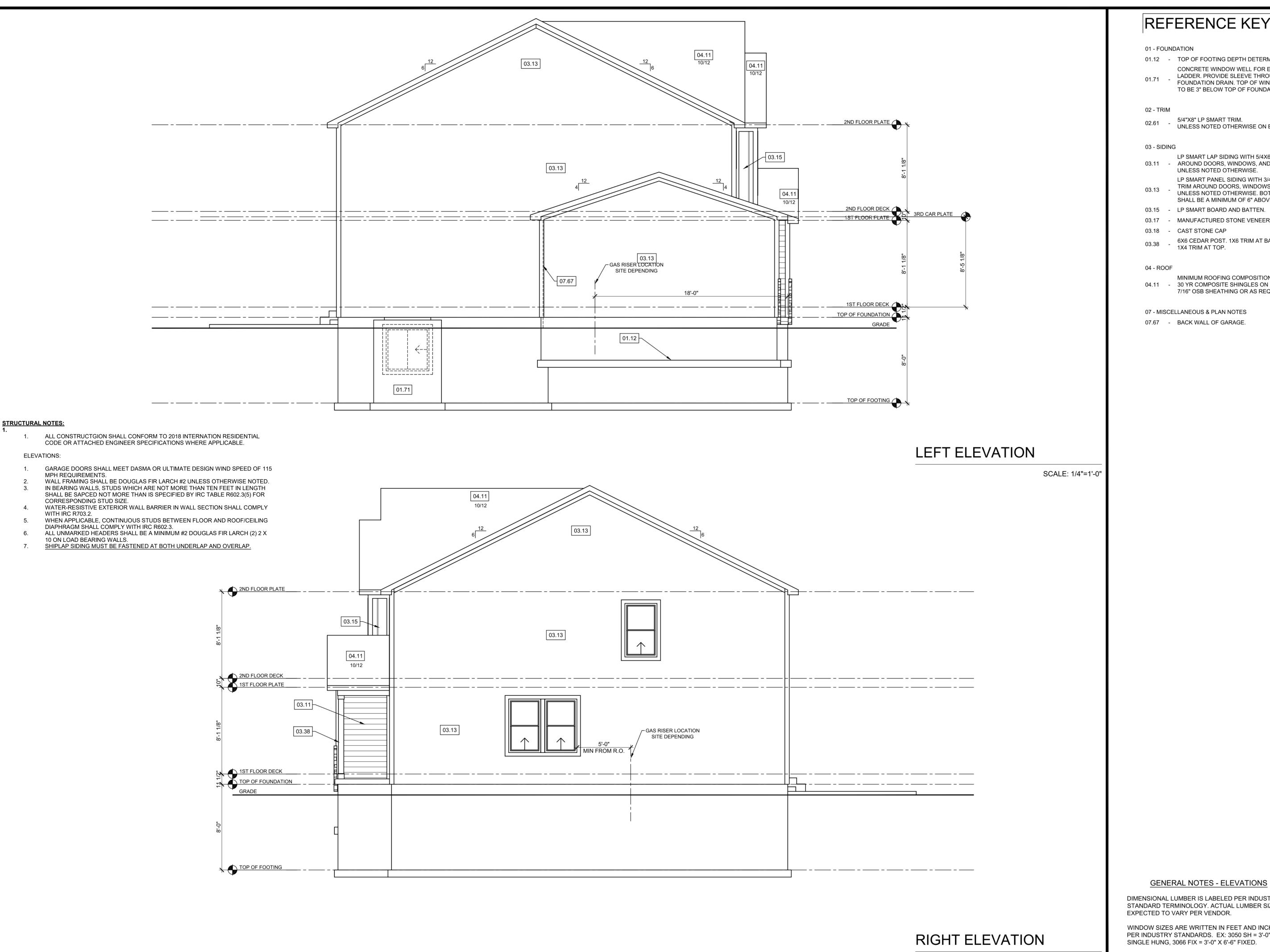
WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0"

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

TYPE	NAME	SQ FT
	MAIN FLOOR	970
FINISHED	UPPER LEVEL	1281
		2251
UNFINISHED	FRONT PORCH	46
	GARAGE	699
	LOWER LEVEL - UNFINISHED	826
	PATIO	120
		1691
		3941

GENERAL NOTES - ELEVATIONS

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



REFERENCE KEYNOTES

01 - FOUNDATION

01.12 - TOP OF FOOTING DEPTH DETERMINED PER SITE. CONCRETE WINDOW WELL FOR EGRESS WITH

LADDER. PROVIDE SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION.

02 - TRIM

5/4"X8" LP SMART TRIM. UNLESS NOTED OTHERWISE ON ELEVATION.

03 - SIDING

LP SMART LAP SIDING WITH 5/4X6 LP SMART TRIM 03.11 - AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. LP SMART PANEL SIDING WITH 3/4X4 LP SMART

7/16" OSB SHEATHING OR AS REQUIRED BY CODE.

TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. BOTTOM OF SIDING SHALL BE A MINIMUM OF 6" ABOVE GRADE.

03.15 - LP SMART BOARD AND BATTEN.

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MINIMUM ROOFING COMPOSITION -04.11 - 30 YR COMPOSITE SHINGLES ON 15# FELT ON

07 - MISCELLANEOUS & PLAN NOTES

07.67 - BACK WALL OF GARAGE.

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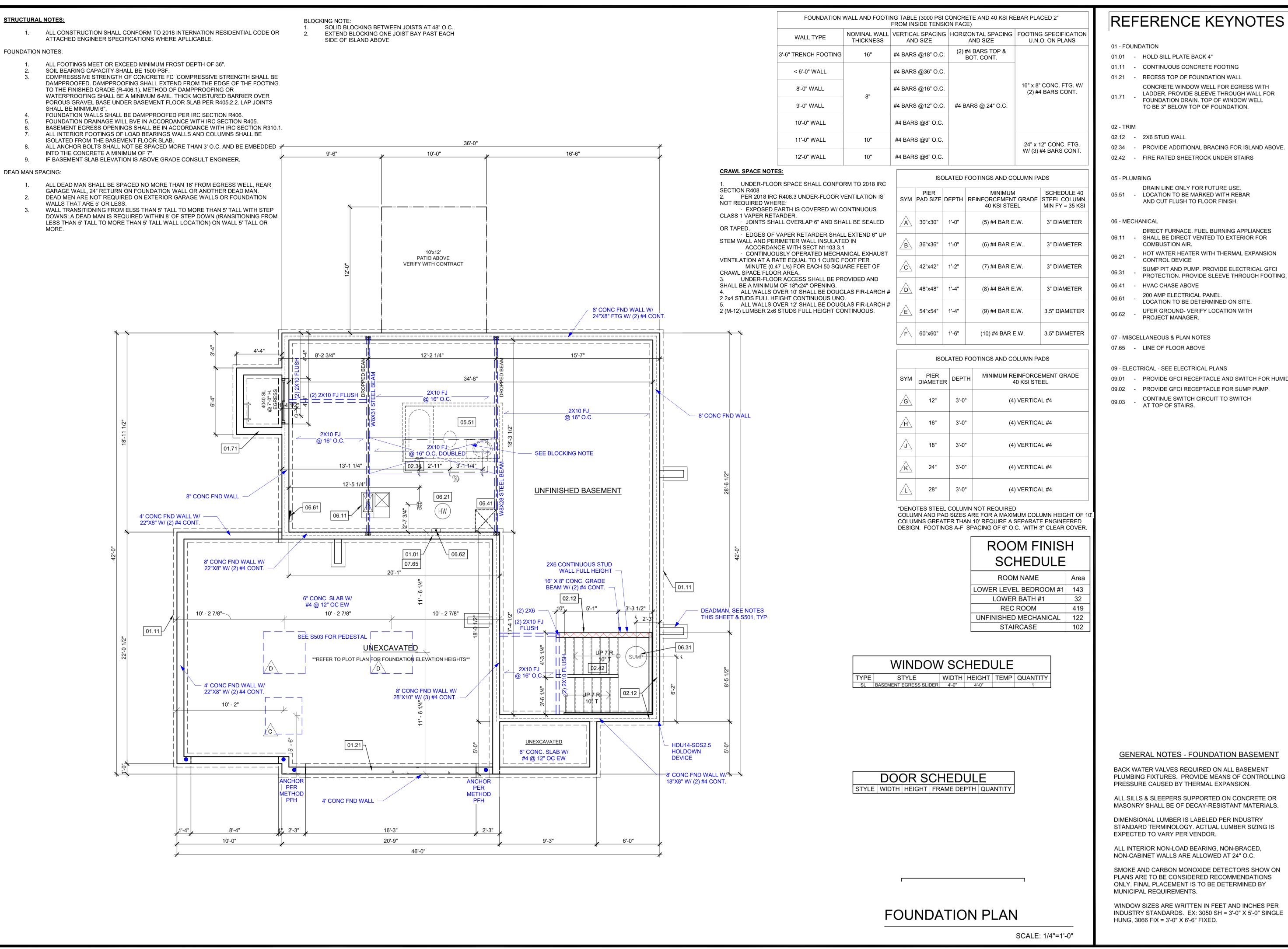
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REFERENCE KEYNOTES

01 - FOUNDATION

01.01 - HOLD SILL PLATE BACK 4"

RECESS TOP OF FOUNDATION WALL

CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVIDE SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL

2X6 STUD WALL

- PROVIDE ADDITIONAL BRACING FOR ISLAND ABOVE.

FIRE RATED SHEETROCK UNDER STAIRS

DRAIN LINE ONLY FOR FUTURE USE. LOCATION TO BE MARKED WITH REBAR

DIRECT FURNACE. FUEL BURNING APPLIANCES

HOT WATER HEATER WITH THERMAL EXPANSION CONTROL DEVICE

SUMP PIT AND PUMP. PROVIDE ELECTRICAL GFCI

200 AMP ELECTRICAL PANEL. LOCATION TO BE DETERMINED ON SITE.

PROJECT MANAGER.

07 - MISCELLANEOUS & PLAN NOTES

09 - ELECTRICAL - SEE ELECTRICAL PLANS

PROVIDE GFCI RECEPTACLE AND SWITCH FOR HUMIDIFIEF

AT TOP OF STAIRS.

CONTINUOUS CONCRETE FOOTING

TO BE 3" BELOW TOP OF FOUNDATION.

05 - PLUMBING

AND CUT FLUSH TO FLOOR FINISH.

06 - MECHANICAL

SHALL BE DIRECT VENTED TO EXTERIOR FOR COMBUSTION AIR.

PROTECTION. PROVIDE SLEEVE THROUGH FOOTING.

HVAC CHASE ABOVE

UFER GROUND- VERIFY LOCATION WITH

PROVIDE GFCI RECEPTACLE FOR SUMP PUMP.

CONTINUE SWITCH CIRCUIT TO SWITCH

ARMI

0

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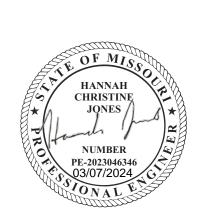
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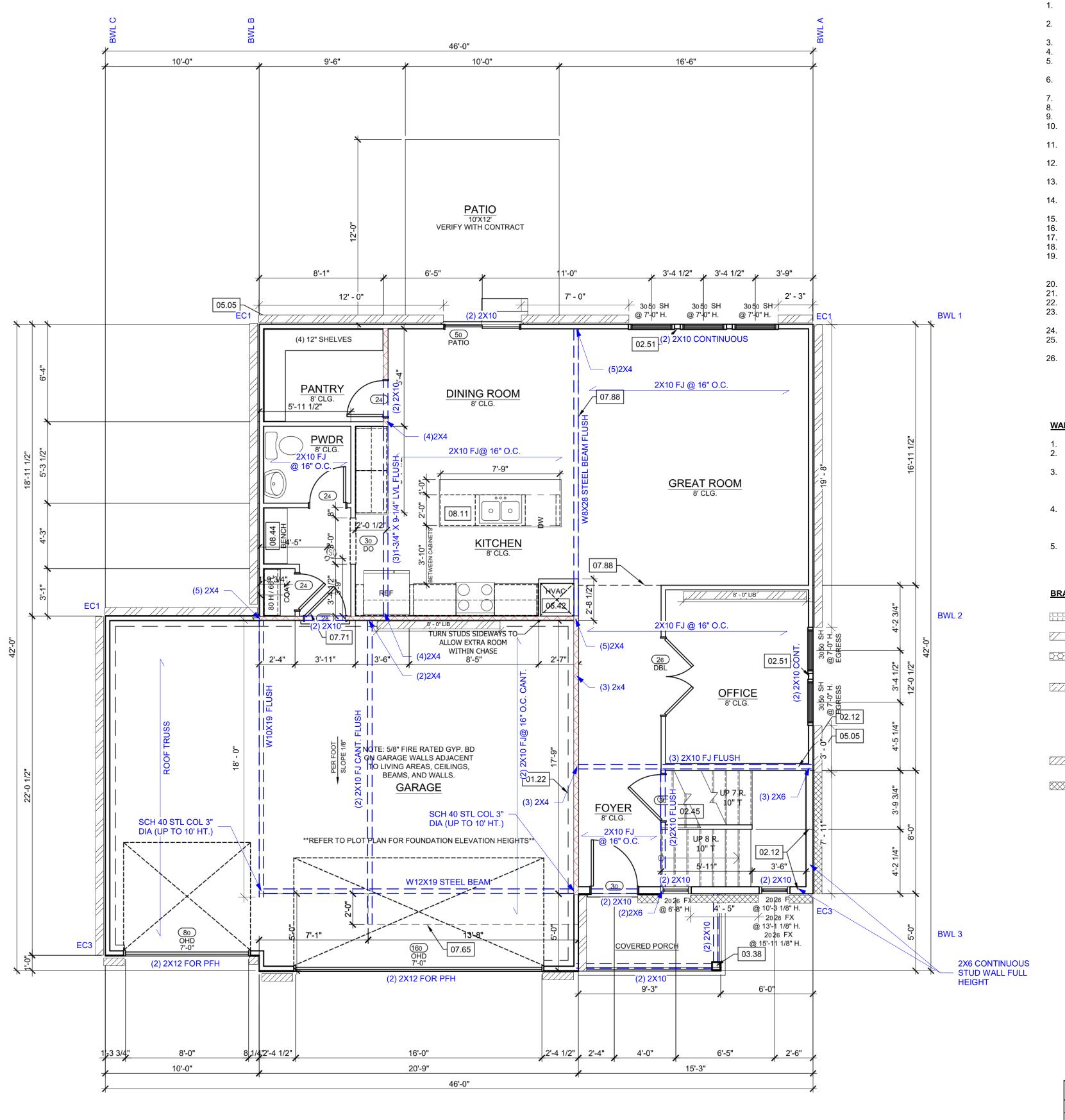
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AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI 03/22/2024 4:39:14



IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL) AND ENERGY CONSERVATION CODE COMPLIANCE

R-VALUE

WOOD FRAME

WALL

R-VALUE

20 OR 13+5H

FLOOR

BASEMENT | SLAB R-VALUE | CRAWL SPACE | DUCTWORK

| R-VALUE | WALL R-VALUE | & DEPTH | WALL R-VALUE | R-VALUE

10, 2 FT

CEILING AND

R-VALUE

U-FACTOR U-FACTOR FENESTRATION ATTICS

SHGC

CLIMATE FENESTRATION SKYLIGHT

ZONE

4 EXCEPT

MARINE

GENERAL PLAN NOTES

- ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR
- ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE. ALL UNMARKER HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2X10 ON LOAD
- BEARING WALLS.
- LEDGERS (FLOOR AND CEILING) SHALL BE IN ACCORDANCE WITH IRC 507. ALL DIMENSIONS ARE FROM FACE OF STUD U.N.O.
- ALL WALLS UNDER 12' SHALL BE DOUGLAS FIR LARCH #2 2X4 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS U.N.O.
- ALL WALLS 12' AND OVER SHALL BE DOUGLAS FIR LARCH #2 2X6 STTUDS AT 16" O.C. FULL HEIGH CONTINUOUS U.N.O.
- MINIMUM DOUBLE JOIST UNDER INTERIOR NON-LOAD BEARING WALLS.
- CANTILEVERS, OVER BEAMS, AND DOOR JAMBS SHALL BE BLOCKED.
- ALL CANTILEVERS SHALL HAVE AT LEAST A 3:1 BACK SPAN. WALL CONSTRUCTION SHALL BE CAPABLE OF ACCOMMODATING ALL LOADS IMPOSED
- ACCORDING TO IRC R301. EXTERIOR WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH IRC 602 & FIGURES R602.3(1)
- AND R602.3(2). ANY WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY (OR THE FURRING THEY ARE
- ATTACHED TO SHALL BE OF DECAY RESISTANT MATERIAL 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.
- SOLID BLOCKING BETWEEN JOISTS AT 48" O.C. AND EXTEND BLOCKING ONE JOIST BAY PAST
- EACH SIDE OF KITCHEN ISLAND.
- DOUBLE JOIST UNDER KITCHEN ISLAND AND TUBS.
- ALL JOIST HANGERS TO BE SIMPSON LUS HANGERS UNO
- 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 311.7. THE MAXIMUM RISER HEIGHT OF STAIRWAYS SHALL NOT EXCEED 7-3/4" AND THE TREADS SHALL PROVIDE A MINIMUM TREAD DEPTH OF 0" (IRC 2018
- R311.7.5.1). SELF CLOSING DEVICES ARE REQUIRED FOR GARAGE TO DWELLING SEPERATION DOORS.
- STEEL COLUMNS SHALL BE A MINIMUM OF SCHEDULE 40.
- SECURITY SHALL CONFORM TO IRC R326/KCBRC. AN ACCESSIBLE CONNECTION POINT WILL BE PROVIDED TO A 20 FOOT CONCRETE ENCASED
- ELECTRODE CONDUCTOR (UFER GROUND). CARBON MONOXIDE DETECTORS WILL BE PROVIDED IN ACCORDANCE WITH IRC SECTION R315.
- THE BUILDING THERMAL ENVELOPE IS REQUIRD TO BE SEALED (2018 IRC SECTION N1 102.4.1 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)

INTERIOR LOAD BEARING WALL

WALL BRACING NOTES:

- WALL BRACING IS DESIGNED IN ACCORDANCE WITH IRC R602.10
- BRACING METHODS SHALL BE PER PLAN AND SHALL BE CONSTRUCTED IN CONFORMANCE WITH 2018 IRC R602.10.4 AND R602.10.5
- FOR METHOD CS-WSP STRUCTURAL PANEL SHEATHING SHALL BE INSTALLED ON ALL SHEATHABLE SURFACES ON ONE SIDE OF THE BRACED WALL LINE INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS. END CONDITIONS SHALL MEET THE REQUIREMENTS OF R602.10.7 AND DETAIL 9-S400.
- ALL HORIZONTAL PANEL JOINTS SHALL OCCUR OVER AND BE NAILED TO COMMON FRAMING OR BLOCKING WITH AN
- APPROPRIATE PANEL EDGE-NAILING SCHEDULE IN ACCORDANCE
- INTERIOR FINISH OF EXTERIOR WALLS SHALL BE MINIMUM 1/2" GYPSUM BOARD INSTALLED ON THE INTERIOR SIDE.

BRACING METHODS

BRACING CS-PF PER IRC R602.10.6.4

BRACING CS-WSP PER IRC R602.10

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

BRACING LIB PER IRC R602.10 MINIMUM LIB LENGTH PER 2018 IRC TABLE

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

69" - 10' TALL WALL HEIGHT

BRACING PFH PER IRC R602.10.6.2

ENGINEERED BRACING

3/8" CONTINUOUS SHEATHING W/ 8D COMMON NAILS 4"OC AT EDGE AND 12" OC IN FIELD. BLOCK AT TOP AND BASE OF WINDOWS AND HORIZONTALLY AT 1ST FLOOR TOP PLATE HEIGHT.

ROOM FINISH SCHEDULE **ROOM NAME**

FOYER/HALLWAY	105
GREAT ROOM	249
OFFICE	105
MAIN LEVEL STAIRS	72
KITCHEN	173
DINING AREA	78
OWNER'S ENTRY	40
POWDER ROOM	28
PANTRY	47
GARAGE	680
GARAGE	471

WINDOW SCHEDULE

TYPE | STYLE | WIDTH | HEIGHT | TEMP | QUANTITY

DOOR SCHEDULE					
STYLE	WIDTH	HEIGHT	FRAME DEPTH	QUANTITY	
HINGED - SINGLE	2'-4"	6'-8"	4 1/2"	3	
GARAGE DOOR - 16 - 32 PANEL	16'-0"	7'-0"	4 1/2"	1	
HINGED - SINGLE	3'-0"	6'-8"	4 1/2"	1	
DRYWALL OPENING	3'-0"	6'-8"	4 1/2"	1	
SLIDING - DOUBLE - FULL LITE	5'-0"	6'-8"	4"	1	
HINGED - DOUBLE	5'-0"	6'-8"	4 1/2"	1	
HINGED - SINGLE - GARAGE	2'-8"	6'-8"	4 5/8"	1	
GARAGE DOOR - 8 - 16 PANEL	8'-0"	7'-0"	4 1/2"	1	
FRONT DOOR - 2 PANEL - CRAFTSMAN	3'-0"	6'-8"	6 1/2"	1	

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

02 - TRIM

02.51 - 3 STUDS BETWEEN WINDOW UNITS

03 - SIDING

6X6 CEDAR POST. 1X6 TRIM AT BASE. 1X4 TRIM AT TOP.

05.05 - HOSE BIBB

06 - MECHANICAL

HVAC FLOOR OPENING. HEADER OFF FLOOR JOISTS - AS REQUIRED. BUMP TRUSSES AS NECESSARY

24" CABINET + 12" OVERHANG FLAT ISLAND.

08.44 - BENCH WITH COAT HOOKS

CONTINUE SWITCH CIRCUIT DOWN TO SWITCH

SWITCH AND POWER FOR GARBAGE DISPOSAL.

09.07 - FLOOD LIGHT - DETERMINED ON SITE.

REFERENCE KEYNOTES

01 - FOUNDATION

01.22 - EXPOSED TOP OF FOUNDATION WALL

02.12 - 2X6 STUD WALL

02.45 - STAIRS TO LOWER LEVEL UNFINISHED

05 - PLUMBING

FOR HVAC ACCESS.

07 - MISCELLANEOUS & PLAN NOTES

07.65 - LINE OF FLOOR ABOVE

20 MINUTE FIRE RATED SOLID CORE WITH SELF-CLOSING HINGES

07.88 - CHANGE IN FLOORING MATERIAL

08 - CABINETRY

VERIFY LOCATION WITH PERSONAL BUILDER.

09 - ELECTRICAL - SEE ELECTRICAL PLANS

AT BOTTOM OF STAIRS.

- PROVIDE POWER BELOW COUNTER FOR DISHWASHER.

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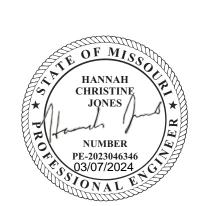
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EXPECTED TO VARY PER VENDOR. PROVIDE BLOCKING AT ALL CEILING JUMPS FOR

INSULATION. 2X6 EXTERIOR WALL OVER 12' SHALL BE DOUGLAS FIR

STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS

GENERAL NOTES - FLOOR PLAN

ALL EXTERIOR WALLS, INTERIOR BEARING WALLS, AND

WINDOWS TO COMPLY WITH IRC R312.2 FOR FALL

INTERIOR BRACED WALLS ARE AT 16" O.C. UNLESS

ALL INTERIOR NON-LOAD BEARING, NON-BRACED,

ROOF AND CEILING FRAMING ARE PRE-ENGINEERED

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY

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

WOOD TRUSSES UNLESS NOTED OTHERWISE.

PROTECTION.

NOTED OTHERWISE.

SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL 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.

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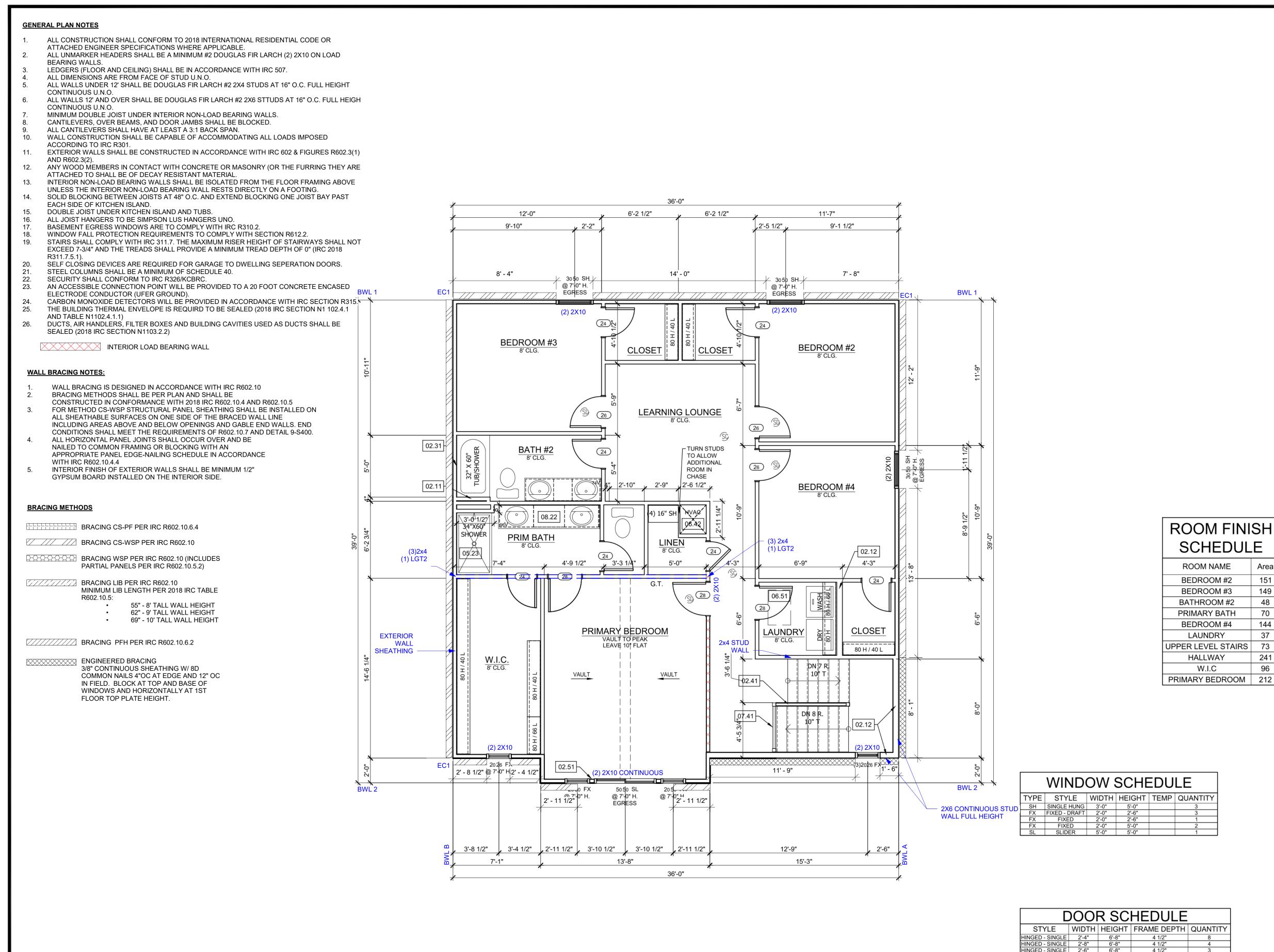
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MAIN LEVEL PLAN

AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/22/2024 4:39:14



DOOR SCHEDULE	

ROOM FINISH

UPPER LEVEL PLAN

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

149

70

144

37

241

96

REFERENCE KEYNOTES

02 - TRIM

02.11 - DOUBLE 2X4 STUD WALL

02.12 - 2X6 STUD WALL

SIX SIDED TUB ASSEMBLY INCLUDING THERMOPLY ON EXTERIOR WALL TO 2" ABOVE TOP OF TUB DECK

OR TUB/SHOWER UNIT

02.41 - CURB STAIR SYSTEM WITH OPEN HANDRAILS 02.51 - 3 STUDS BETWEEN WINDOW UNITS

04 - ROOF

04.51 - SINGLE BOX VAULT

05 - PLUMBING

05.23 - FIBERGLASS UNIT

06 - MECHANICAL

HVAC FLOOR OPENING. HEADER OFF FLOOR JOISTS 06.42 - AS REQUIRED. BUMP TRUSSES AS NECESSARY FOR HVAC ACCESS.

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

07 - MISCELLANEOUS & PLAN NOTES

07.41 - OPEN HANDRAILS

08 - CABINETRY

08.22 - CONTINUOUS FLAT VANITY

09 - ELECTRICAL - SEE ELECTRICAL PLANS

CONTINUE SWITCH CIRCUIT DOWN TO SWITCH AT BOTTOM OF STAIRS.

GENERAL NOTES - FLOOR PLAN

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 PER VENDOR.

PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.

2X6 EXTERIOR WALL OVER 12' SHALL BE DOUGLAS FIR

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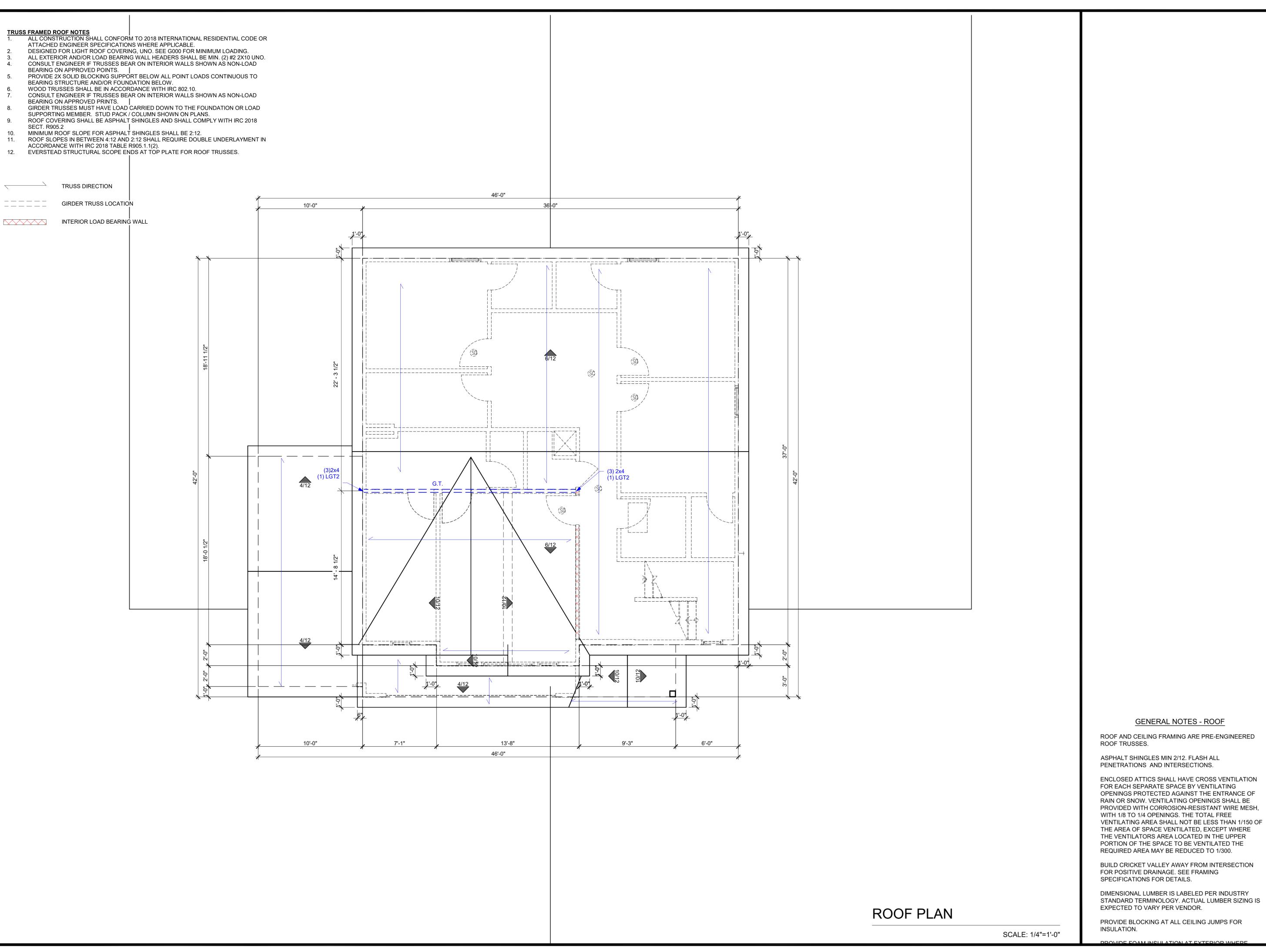
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IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL) AND ENERGY CONSERVATION CODE COMPLIANCE

VAULTS WOOD FRAME CEILING AND U-FACTOR U-FACTOR FENESTRATION ATTICS BASEMENT | SLAB R-VALUE | CRAWL SPACE | DUCTWORK FLOOR FENESTRATION SKYLIGHT CLIMATE WALL ZONE R-VALUE | WALL R-VALUE | & DEPTH | WALL R-VALUE | R-VALUE R-VALUE R-VALUE SHGC R-VALUE 4 EXCEPT 10, 2 FT 10/13 .32 .55 20 OR 13+5H 10/13 .40 49 19 MARINE

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INSULATION.

GENERAL NOTES - ROOF

GENERAL NOTES IRC 2018

PLANS SHALL COMPLY WITH 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.

A.2 LOADING ASSUMPTIONS

ROOF + CEILING (NO STORAGE) 15 PSF ROOF + CEILING (STORAGE) 20 PSF 10 PSF CEILING JOISTS (STORAGE) EXTERIOR BALCONY / DECK 10 PSF INTERIOR FLOOR (MAIN FLOOR) 15 PSF INTERIOR FLOOR (UPPER FLOORS) 10 PSF 8" THICK MASONRY WALL 96 PSF 6" THICK MASONRY WALL 72 PSF 15 PSF EXTERIOR LIGHT FRAMED WOOD WALLS INTERIOR LIGHT FRAMED WOOD WALLS 10 PSF (INTERIOR WALLS INCLUDED IN 15 PSF DEAD LOAD)

ROOF LIVE LOAD

FLOOR LIVE LOAD 40 PSF (HABITABLE) GARAGE 50 PSF WITH 2000 LB POINT LOAD STORAGE 20 PSF (UNINHABITABLE) GUARDRAIL

CONTINUOUS LINEAR MAXIMUM POINT 200 LBS

GROUND SNOW LOAD 20 PSF

VELOCITY 115 MPH **EXPOSURE CATEGORY**

SOIL AND SITE ASSUMPTIONS

FOUNDATION DESIGN ASSUMES MINIMUM SOIL BEARING FOR THE SITE OF 1,500 PSF (2,000 PSF FOR KANSAS CITY, MO) UNLESS OTHERWISE NOTED. CONTRACTOR TO VISUALLY INSPECT THE SITE OR PROVIDE GEOTECHNICAL INVESTIGATION TO VERIFY MINIMUM ACCEPTABLE SOIL CONDITIONS FOR CL (SILTY CLAY) AS DEFINED BY 2018 IRC. THE CONTRACTOR IS RESPONSIBLE FOR ANY SOIL CONDITION THAT DOES NOT MEET THE MINIMUM REQUIREMENTS AND FOR CONTACTING THE ENGINEER OF

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.

LATERAL SOIL PRESSURES UNLESS OTHERWISE NOTED

ACTIVE AT REST 100 PSF

SITE GRADING SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE AT A MINIMUM OF 0.5% (6" IN THE FIRST 10'-0"). ALTERNATE APPROACHES MAY BE APPROVED IF THE ALTERNATE DESIGN IS EQUIVALENT IN EFFECTIVENESS AND PERFORMANCE, AND PROVIDES FOR POSITIVE SITE DRAINAGE.

FOUNDATION NOTES

FOUNDATION ANCHORAGE (IRC R403.1.6)

- SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WALL WITH A MINIMUM 1/2" DIAMETER ANCHOR BOLTS EMBEDDED AT LEAST 7" INTO THE CONCRETE.
- BOLTS SHALL BE SPACED NO GREATER THAN 6'-0" O.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 EQUALS A 9-1/4" LONG
- WALL BRACING METHODS (IRC R602) MAY REQUIRE ADDITIONAL ANCHORAGE.

C.2 CONCRETE SLABS

- CONCRETE SLABS PLACED ON FILL MATERIAL WHICH SHALL BE COMPARED TO ENSURE UNIFORM SUPPORT OF THE SLAB AND SHALL NOT EXCEED 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'-0" OVER-DIG ADJACENT TO FOUNDATION WALL:
 - WHERE SOIL IS EXCAVATED FOR A MAXIMUM DIMENSION OF 4'-0" 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'-0" OVER-DIG" DETAIL.

VAPOR RETARDER / BARRIER (IRC R506.2.3)

A 6 MILLIMETER 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 UNHEATED ACCESSORY BUILDINGS).

C.4 FOOTINGS

- THE BOTTOM OF ALL FOOTINGS SHALL EXTEND NOT LESS THAN 36" BELOW GRADE FOR FROST PROTECTION (IRC R403.1.4).
- FOOTINGS FOR FREESTANDING ACCESSORY STRUCTURES WITH AN AREA OF 600 SQ. FT. OR LESS AND AN EAVE HEIGHT OF 10'-0" OR LESS SHALL EXTEND BELOW GRADE A MINIMUM OF
- EXTERIOR WALLS, BEARING WALLS, COLUMNS 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" DETAILS.

C.5 CONCRETE

- ALL CONCRETE CONSTRUCTION SHOULD CONFORM TO ACI 318-14 (OR ACI 332) OR 2018 IRC.
- THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2.

C.5 CONCRETE (CONT.)

- CONCRETE MIX TO UTILIZE A MAXIMUM WATER-CEMENT MATERIALS RATIO OF 0.45 FOR ALL APPLICATIONS. ADMIXTURES SHALL NOT CONTAIN ANY CHLORIDES.
- CONCRETE POURED AGAINST AN EXISTING SURFACE SHOULD BE ROUGHENED TO A MINIMUM
- REBAR PLACEMENT SHALL BE AS FOLLOWS:

BEAMS, COLUMNS

- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3.0 IN CLR CONCRETE EXPOSED TO EARTH OR WEATHER 1.5 IN CLR NOT EXPOSED TO WEATHER OR GROUND 3/4 IN CLR SLABS, WALLS, JOISTS
- CONCRETE MIX DESIGN SHALL BE 6% (±1%) AIR-ENTRAINED FOR GARAGE SLABS, FOOTINGS, WALLS, OR FLATWORK EXPOSED TO WEATHER
- SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS BEFORE CONCRETE STRENGTH REACHES 70% OF STRENGTH DETERMINED BY CYLINDERS OR 28 DAYS.
- ALL FOUNDATION WALLS ENCLOSING BELOW GRADE SPACE SHALL BE DAMPPROOFED. THE DAMPPROOFING SHALL EXTEND FROM THE EDGE OF THE FOOTING TO THE FINISHED GRADE. (IRC R406.1)

C.6 CONCRETE WALLS WITH REINFORCEMENT STEEL

- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 40.
- SMOOTH BARS OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.
- 90 DEG. HOOK SHOWN IN DRAWINGS SHALL BE STANDARD PER ACI 318-14.
 - STRAIGHT EXTENSION LENGTH = 12X BAR DIA BEND DIAMETER = 12X BAR DIA.

HOOKED DOWELS:

- HOOKED DOWELS FROM FOUNDATIONS TO WALL SHALL BE PROVIDED TO MATCH VERTICAL WALL REINFORCING AND EXTENDED TO 3" CLEAR FROM BOTTOM OF
- HOOKED DOWELS MATCH SLAB REINFORCING FROM SLAB TO WALLS OR SLAB TO
- PROVIDE (2) #5 BARS AROUND PERIMETER OF ALL SUSPENDED SLABS.
- WHERE SPLICES ARE NECESSARY IN REINFORCEMENT, THE LENGTH OF LAP SPLICE SHALL BE IN ACCORDANCE WITH TABLE R608.5.4(1) AND FIGURE R608.5.4(1). THE MAXIMUM GAP BETWEEN NONCONTACT PARALLEL BARS AT A LAP SPLICE SHALL NOT EXCEED THE SMALLER OF ONE-FIFTH THE REQUIRED LAP LENGTH AND 6 INCHES (152MM) [SEE FIGURE R608.5.4.(1)].
- TOP HORIZONTAL REINFORCEMENT SHALL BE PLACED WITHIN 12" FROM THE TOP OF THE
- HORIZONTAL WALL REINFORCEMENT SHALL TERMINATE AT THE END OF THE WALL WITH A STANDARD HOOK

C.7 COLD WEATHER CONCRETE

- COLD WEATHER IS DEFINED AS THREE CONSECUTIVE DAYS WHERE THE AVERAGE DAILY TEMPERATURE DROPS BELOW 40 DEGREES FAHRENHEIT AND NOT ABOVE 50 DEGREES FAHRENHEIT FOR MORE THAN HALF OF ANY ONE OF THOSE THREE DAYS.
- COLD WEATHER CONCRETE WORK SHALL CONFORM TO ACI 306.
- ALL MATERIALS AND EQUIPMENT REQUIRED FOR PROTECTION SHALL BE AVAILABLE AT THE PROJECT SITE BEFORE COLD WEATHER CONCRETING BEGINS.
- THE CONCRETE MIX DESIGN PROVIDED BY THE SUPPLIER SHALL AT A MINIMUM REACH THE AVERAGE 28 DAY MIX DESIGN COMPRESSIVE STRENGTH IN MINIMUM 72 HOURS OR 2000 PSI -WHICHEVER IS GREATER.
- THE TEMPERATURE OF CONCRETE AT PLACEMENT SHALL BE A MINIMUM OF 55 DEGREES
- THE MINIMUM CONCRETE TEMPERATURE AT THE TIME OF MIXING SHALL NOT BE BELOW 65
- ALL SNOW, ICE AND FROST MUST BE REMOVED PRIOR TO PLACING CONCRETE.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR CONCRETE AGAINST FREEZING AND MAINTAIN A CONCRETE TEMPERATURE OF 55 DEGREES FAHRENHEIT FOR A 72 HOUR PERIOD AFTER CONCRETE PLACEMENT. THIS MAY BE ACHIEVED WITH THE USE OF INSULATING BLANKETS AND/OR THE USE OF TEMPORARY HEATERS.
- GROUND TEMPERATURE AT THE TIME OF PLACEMENT OF SLAB OR FOOTINGS SHALL NOT BE LESS THAN 35 DEGREES FAHRENHEIT.
- INSULATION, FORMS AND HEATERS MAY BE REMOVED AFTER 72 HOURS.
- MAINTAIN ADEQUATE PROTECTION OF SUB GRADE AND ADEQUATE DRAINAGE AWAY FROM EXPOSED CONCRETE ELEMENT TO PREVENT FREEZING.

C.8 FOOTNOTES

SUSPENDED SLABS

- 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 PLACED AS FOLLOWS:
 - 8" WALL MINIMUM 2" FROM TENSION FACE
 - 10" WALL MINIMUM 6-3/4" FROM THE OUTSIDE FACE
- EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL
- HORIZONTAL REINFORCEMENT:
- ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL
- OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" O.C. HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE
- (INTERIOR); AND BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" FROM INSIDE FACE) 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 CORNERS.
- 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.
- STRAIGHT WALLS MORE THAN 5'-0" TALL AND MORE THAN 16-0" 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).

MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE PER TABLE R402.2 MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f'c) TYPE OR LOCATION OF CONCRETE FOR SEVER WEATHERING POTENTIAL CONSTRUCTION BASEMENT WALLS, FOUNDATIONS AND OTHER CONCRETE NOT 2,500 EXPOSED TO THE WEATHER BASEMENT SLABS AND INTERIOR SLABS ON 2,500 GRADE, EXCEPT GARAGE FLOOR SLABS BASEMENT WALLS, FOUNDATION WALLS, EXTERIOR WALLS AND OTHER VERTICAL CONCRETE WORK 3,000 EXPOSED TO THE WEATHER PORCHES, CARPORT SLABS AND STEPS EXPOSED TO THE WEATHER, AND GARAGE 3,500 FLOOR SLABS

4,000

D. FRAMING/STRUCTURE

D.1 FRAMING NOTES

1.5 IN CLR

- ALL TREATED LUMBER SIZES ARE DOUGLAS FIR-LARCH #2 UNLESS OTHERWISE NOTED
- ALL NON TREATED LUMBER OR ROT RESISTANT SIZES ARE #2 TREATED SOUTHERN YELLOW PINE UNLESS OTHERWISE NOTED.
- ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR-LARCH (2) 2X10 ON LOAD BEARING WALLS.
- ALL HEADERS/BEAMS TO BEAR ON A MINIMUM OF (2) 2X4 JACK STUDS UNO. KING STUDS
- SHALL BE PROVIDED AT ALL HEADERS IN ACCORDANCE WITH IRC TABLE R602.7.5.
- DOUBLE JOIST UNDER PARALLEL INTERIOR NON-LOAD BEARING WALLS.

CANTILEVERS, OVER BEAMS AND DOOR JAMBS SHALL BE BLOCKED.

- ANY WOOD MEMBER IN CONTACT WITH CONCRETE OR MASONRY (OR THE FURRING THEY ARE ATTACHED TO) SHALL BE OF DECAY RESISTANT MATERIAL.
- IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN 10'-0" FEET IN LENGTH SHALL BE SPACED NOT MORE THAN IS SPECIFIED IN IRC TABLE R602.3(5) FOR THE CORRESPONDING STUD SIZE. THOSE STUDS GREATER THAN 10'-0" FEET IN LENGTH SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.
- ALL WOOD STRUCTUAL PANELS SHALL CONFORM TO THE MOST CURRENT APPLICABLE SPECIFICATION AND SUPPLEMENTS OF THE APA OR EQUIVALENT. ALL PANEL END JOINTS SHALL OCCUR OVER SUPPORTS AND SHALL BE STAGGERED ONE HALF PANEL LENGTH FROM ADJACENT PANELS. PROVIDE 1/8" INCH SPACE AT PANEL ENDS. WOOD STRUCTURAL PANEL MOISTURE CONTENT SHALL BE LESS THEN OR EQUAL TO 16%.
- ALL STRUCTURAL FRAMING MEMBERS SHALL BE AS FOLLOWS UNO: 2X4 OR 2X6 EXTERIOR WALLS AS PERMITTED BY CODE: DOUGLAS FIR-LARCH #2 (DF-L #2)
- EXTERIOR WALLS TO BE CONTINUOUSLY SHEATHED WITH MIN. 7/16" OSB
- EXTERIOR OSB SHEATHING TO BE FASTENED WITH 8D COMMON NAILS; 6" O. C. AT PANEL EDGES, 12" O. C. IN THE FIELD. 2X4 OR 2X6 INTERIOR LOAD BEARING WALLS DF-L #2 OR BETTER.
- LOAD BEARING, BRACED, AND SHEAR WALLS, REQUIRE A DOUBLE TOP PLATE. THE TOP PLY BEING FIELD APPLIED WITH A MIN. 24" LAP SPLICE
- FIELD APPLIED LAP SPLICED TOP PLATE: DF-L #2 OR BETTER LOAD BEARING HEADERS PER HEADER SCHEDULE OR AS SHOWN ON FRAMING PLANS. LOAD BEARING HEADERS TO BE FABRICATED WITH THE HEADER AT THE UNDER SIDE OF
- THE TOP PLATE WITH CRIPPLE FRAMING BELOW AS NEEDED UNO. INTERIOR NON LOAD BEARING WALLS: DF-L #2 STUD GRADE OR BETTER
- DOUBLE TOP PLATE IS NOT REQUIRED FOR INTERIOR NON LOAD BEARING WALLS HEADER CRIPPLE SPACING CAN BE 24" O. C. REGARDLESS OF WALL STUD SPACING FOR NON LOAD BEARING WALLS CRIPPLE FRAMING NOT REQUIRED ABOVE OR BELOW OPENINGS WHERE THE VERTICAL
- ALL LUMBER IN CONTACT WITH MASONRY OR OTHERWISE EXPOSED TO WEATHERING TO BE PRESSURE TREATED (PT).

CLEAR HEIGHT IS 22" OR LESS FOR NON-LOAD BEARING WALLS.

- FIELD APPLIED SILL PLATE: PT DF-L #2 BOTTOM (SOLE) PLATE IN CONTACT WITH MASONRY: PT DF-L #2
- ALL PRESSURE TREATED WOOD SHALL BE PRESSURE TREATED WITH WATER-BORNE PRESERVATIVES. PRESSURE TREATMENT SHALL COMPLY WITH THE REQUIREMENTS OF AWPB, C2, LP-22, AND IRC SECTION R317. ALL LUMBER < 8" ABOVE THE FINISHED GRADE SHALL BE
- FASTENERS, INCLUDING NUTS AND WASHERS, FOR PRESSURE TREATED WOOD SHALL BE HOT-DIPPED, ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. COATING TYPES AND WEIGHTS FOR CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE IN ACCORDANCE WITH THE CONNECTOR MANUFACTURER'S RECOMMENDATIONS. IN THE ABSENCE OF MANUFACTURER'S RECOMMENDATIONS, A MIN. OF ASTM A653 TYPE G185 ZINC-COATED GALVANIZED STEEL, OR EQUIVALENT, SHALL BE USED. FOR EXCEPTIONS, REFER TO R317.3.1.

ENGINEERED LUMBER MIIMUM DESIGN REQUIREMENTS				
	F _b (PSI)	E (PSI)	F _v (PSI)	
LVL	3100	1.9X10 ⁶	285	
DOUGLAS FIR-LARCH	900	1.6X10 ⁶	180	
GLU-LAM	2400	1.8X10 ⁶	230	

ASTM A500 ($F_Y = 46 \text{ KSI}$)

ASTM A36 (F_Y = 36 KSI)

ASTM A992 ($F_Y = 50 \text{ KSI}$)

ASTM A53 GR.B ($F_Y = 35$ KSI)

D.2 STRUCTURAL STEEL

PRESSURE TREATED.

- STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- STEEL PIPE COLUMNS SHALL BE A MINIMUM OF SCHEDULE 40.
- STEEL GRADE AND SPECIFICATION SHALL BE AS FOLLOWS: **HOLLOW STRUCTURAL SECTIONS:** CHANNELS, PLATES, ANGLES, AND COLUMNS:
 - WIDE FLANGES: STEEL PIPE COLUMN ANCHOR RODS:

SAFETY GLAZING MATERIALS.

- ASTM F1554 (F_Y = 36 KSI) BOLTS SHALL CONFORM TO ASTM A307
- BE PERFORMED IN ACCORDANCE TO WELDING PROCEDURE SPECIFICATIONS (WPS) AS
- REQUIRED IN AWS D1.1. THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER.

WELDING SHALL CONFORM TO THE AWS CODES FOR BUILDING CONSTRUCTION, WELDING SHALL

- WELDS SHALL USE E70XX ELECTRODES AND A MINIMUM OF 3/16" SIZE UNLESS NOTED
- ALL WELDS SPECIFIED AS FIELD WELDS MAY BE SHOP WELDED AT THE CONTRACTOR'S OPTION IF ERECTION CAN STILL BE EXECUTED.

E. <u>GLAZING</u>

- GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC R308.4 SHALL BE OF APPROVED
- GLASS IN STORM DOORS: INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE FLOOR.
- GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF THE STAIRWAY WHERE THE GLAZING IS LESS THAN 36 INCHES ABOVE THE LANDING AND WITHIN A 60 IN HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING SHALL BE CONSIDERED A HAZARDOUS LOCATION.
- GLAZING IN WALLS, ENCLOSURES OR FENCES CONTAINING OR FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS, AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.
- WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH IRC R312.2.

F. <u>STAIRWAYS</u>

STAIRWAYS SHALL PROVIDE A MAXIMUM 7-3/4" RISE AND A MINIMUM 10" RUN.

EDGES OF THE TREADS.

- REQUIRED GUARD RAILS AT OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, PORCHES, BALCONIES, OR LANDINGS, SHALL NOT BE LESS THAN 36" HIGH MEASURED VERTICALLY ABOVE THE ADJACENT WALKING SURFACE.
 - EXCEPTION (1): GUARD RAILS ON THE OPEN SIDES OF STAIRS SHALL HAVE A HEIGHT NOT LESS THAN 34" MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING
 - EXCEPTION (2): WHERE THE TOP OF THE GUARD ALSO SERVES AS A HANDRAIL ON THE OPEN SIDES OF STAIRS, THE TOP OF THE GUARD SHALL NOT BE LESS THAN 34" AND NOT MORE THAN 38" MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS.
- GUARD RAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OF ORNAMENTAL PATTERNS THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.
- EACH STAIRWAY OF FOUR OR MORE RISERS SHALL PROVIDE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE TREADS.
- HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1-1/4" TO 2" OR OTHER APPROVED GRASPABLE SHAPE PER IRC R311.7.8.5.
- MINIMUM 6'-8" OF HEADROOM CLEARANCE IS REQUIRED IN STAIRWAYS.
- ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON ENCLOSURE PER IRC

GARAGES

- THE GARAGE FLOOR SHALL SLOPE 1/8" PER 12" TO DRAIN OR VEHICLE ENTRY DOORWAYS.
- DOORS BETWEEN THE GARAGE AND THE DWELLING TO BE: SELF CLOSING, MINIMUM 1-3/8" SOLID CORE OR HONEYCOMBED STEEL DOOR, AND AT LEAST 20 MINUTE FIRE RATED.
- THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY A MINIMUM 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE WHERE A FLOOR/CEILING SPACE IS
- THE GARAGE COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 1/2" GYPSUM BOARD OR EQUIVALENT.
- WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE FLOOR/CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM 5/8" TYPE "X" GYPSUM BOARD ON THE GARAGE CEILING.
- 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 CEILINGS, ATTACHED WITH 1-3/4" X 0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 3-1/4" X 0.120" NAILS THROUGH THE JAMB INTO THE HEADER, 2X8 HEADER (MINIMUM) FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.
- GARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115 MPH WIND LOAD REQUIREMENT OF DASMA 108 AND ASTM E330-96 (IRC R301.2.1).

- THE ROOF IS DESIGNED FOR 20 PSF GROUND SNOW LOAD (MINIMUM)
- PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.
- ROOF IS ENGINEERED TO COMPLY WITH IRC R802.
- ROOF TO BE ASPHALT SHINGLES UNO AND SHALL COMPLY WITH IRC 2018 SECT. R905.2
- MINIMUM ROOF SLOPE FOR ASPHALT SHINGLES SHALL BE 2:12.
- ROOF SLOPES IN BETWEEN 2:12 AND 4:12 SHALL REQUIRE DOUBLE UNDERLAYMENT IN ACCORDANCE WITH IRC 2018 SECTION R905.2.2: "APPLY A 19-INCH (483MM) STRIP OF UNDERLAYMENT FELT PARALLEL TO AND STARTING AT THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. STARTING AT THE EAVE, APPLY 36-INCH-WIDE (914 MM) SHEETS OF UNDERLAYMENT, OVERLAPPING SUCCESSIVE SHEETS 19

INCHES (483MM), AND FASTENED SUFFICIENTLY TO HOLD IN PLACE, END LAPS SHALL BE 4-INCH

(102MM) AND SHALL BE OFFSET BY 6 FEET (1829 MM). DISTORTIONS IN THE UNDERLAYMENT

SHALL NOT INTERFERE WITH THE ABILITY OF THE SHINGLES TO SEAL."

SAFETY REQUIREMENTS I.1 EMERGENCY EGRESS AND RESCUE

- PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7
- SQ. FT. WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 20". BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC R310.

I.2 SMOKE AND CARBON MONOXIDE SAFETY (PER IRC R314)

- PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR INCLUDING BASEMENTS.
- SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING.
- CARBON MONOXIDE DETECTORS SHALL BE INSTALLED AS REQUIRED PER IRC R315.

J. <u>ENERGY REQUIREMENTS</u>

LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE IC-RATED, LEAKAGE

RATED AND SEALED TO THE GYPSUM WALLBOARD AS REQUIRED PER IRC N1102.4.5.

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

MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400

AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER

IRC M1601.6 ENERGY CONSERVATION.

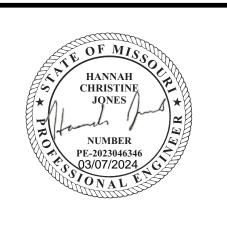
- **ABBREVIATIONS** AFF: ABOVE FINISHED FLOOR
- CLR: CLEAR EFF: EFFECTIVE **EFP: EQUIV FLUID PRESSURE**
- EOR: ENGINEER OF RECORD **EQUIV: EQUIVALENT**

MAX: MAXIMUM

FV: FIELD VERIFY

- MIN: MINIMUM NTS: NOT TO SCALE
- O.C.: ON CENTER PCF: POUNDS PER CUBIC FOOT PLF: POUNDS PER LINER FOOT
- PSF: POUNDS PER SQUARE FOOT PSI: POUNDS PER SQUARE INCH

UNO: UNLESS NOTED OTHERWISE



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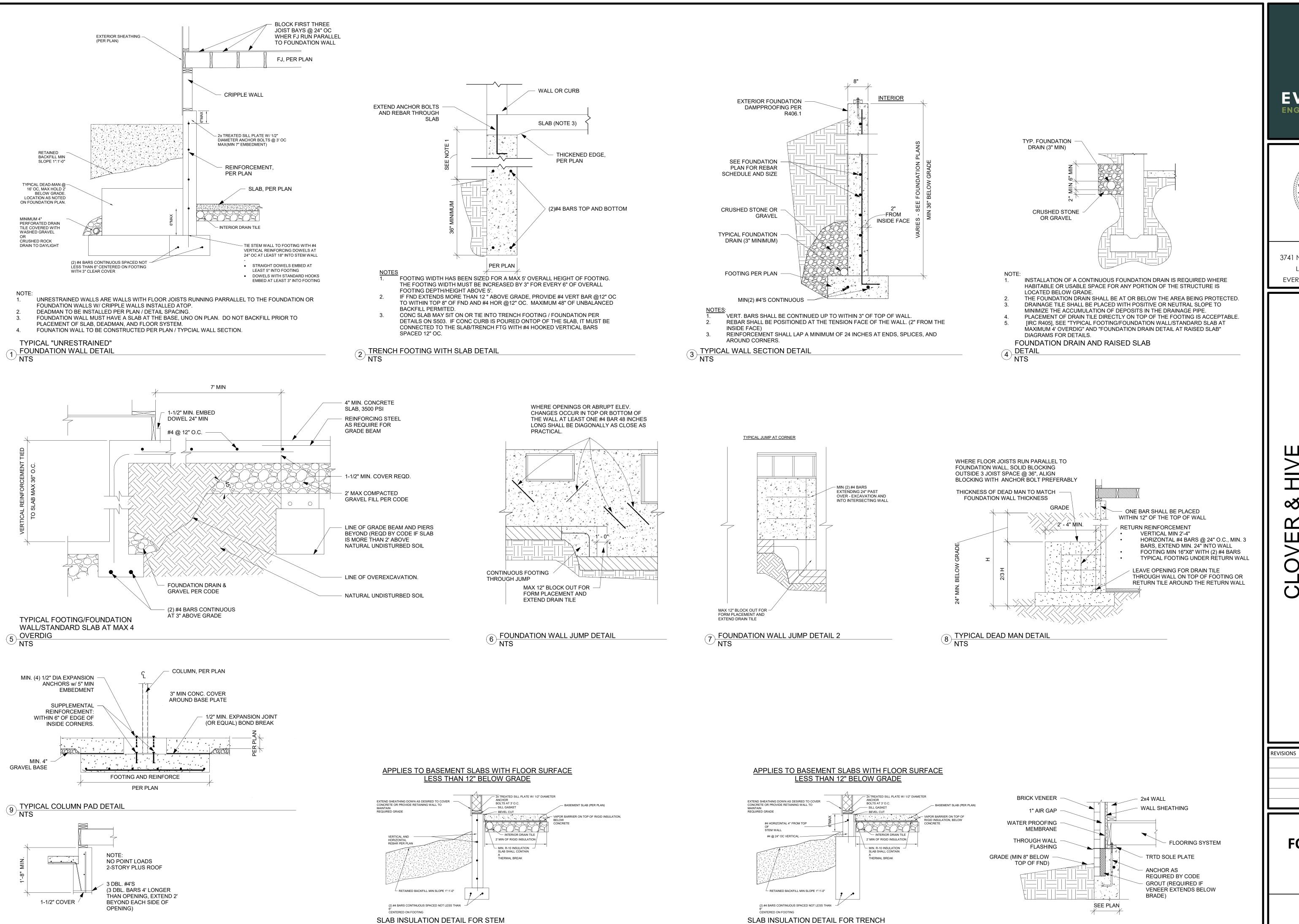
REVISIONS

STRUCTURAL GENERAL NOTES

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SCALE

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11 WALL AND FOOTING NTS

6' MAXIMUM OPENING HEADER DETAIL NTS

RMHOUSE S HORN

ARBOR

HANNAH CHRISTINI

NUMBER

EVERSTEAD

3741 NE TROON DRIVE, SUITE 200

LEE'S SUMMIT, MO 64064

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FOUNDATION

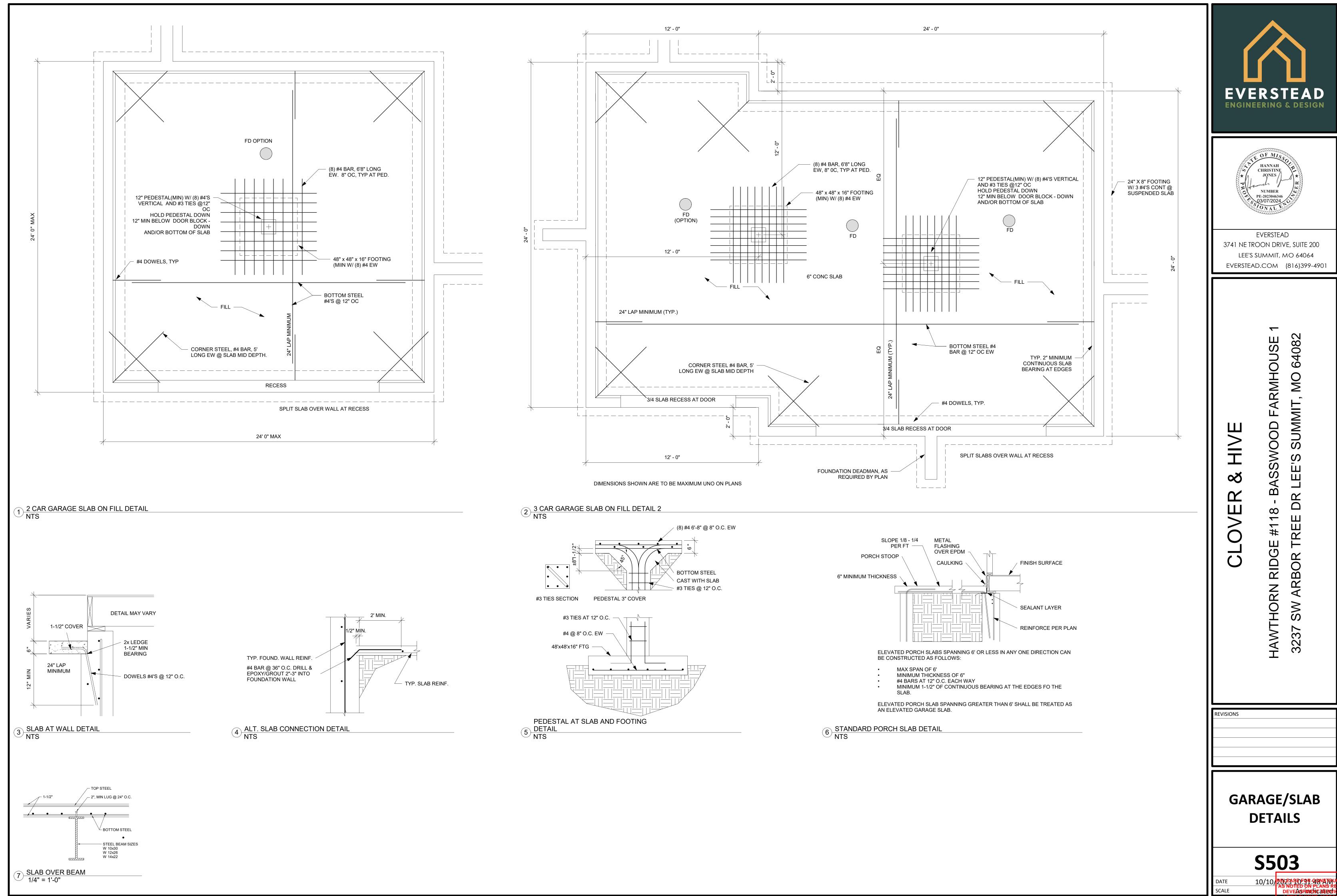
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13 BRICK VENEER DETAIL NTS

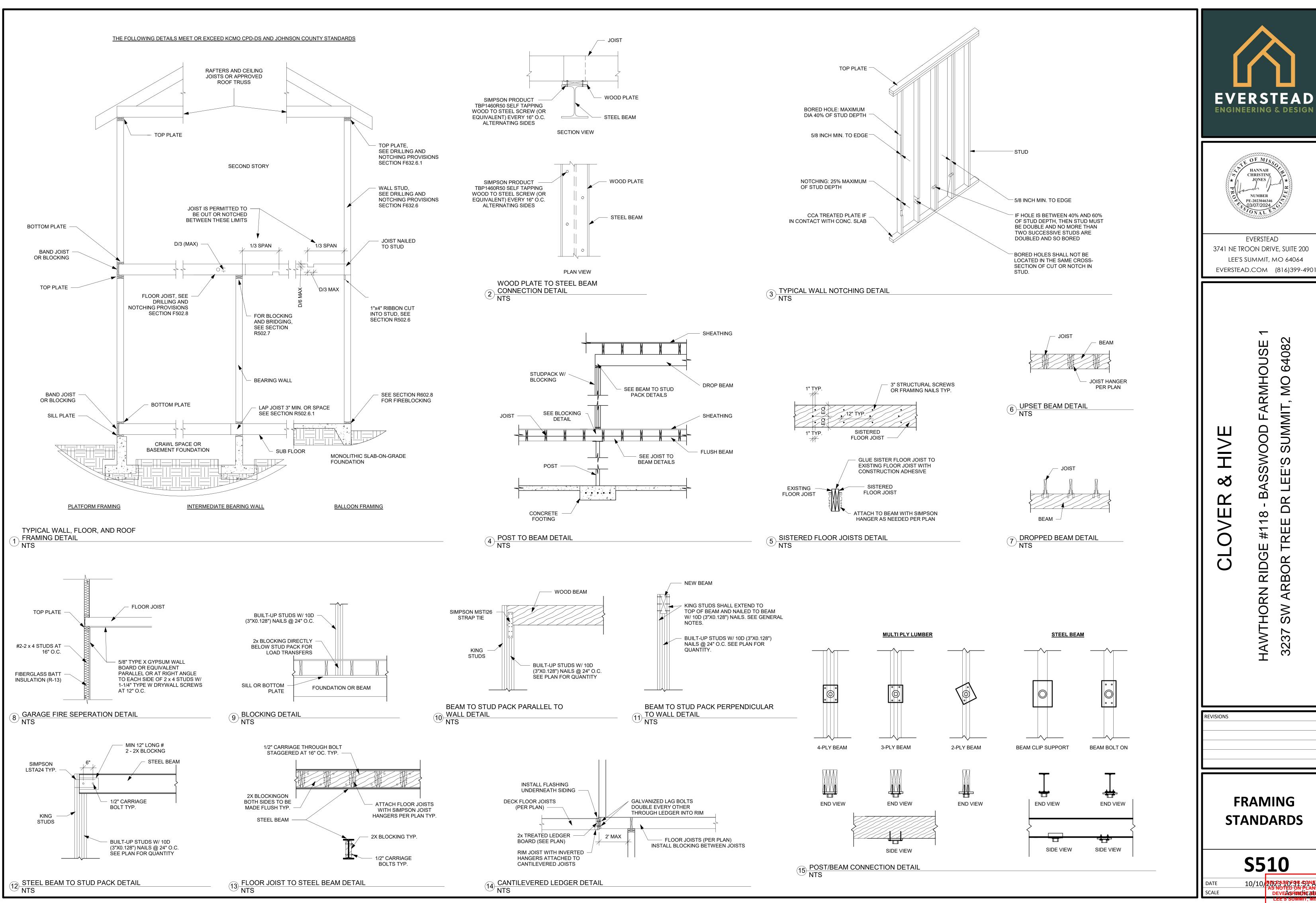
12 FOOTING WITH STEM WALL NTS



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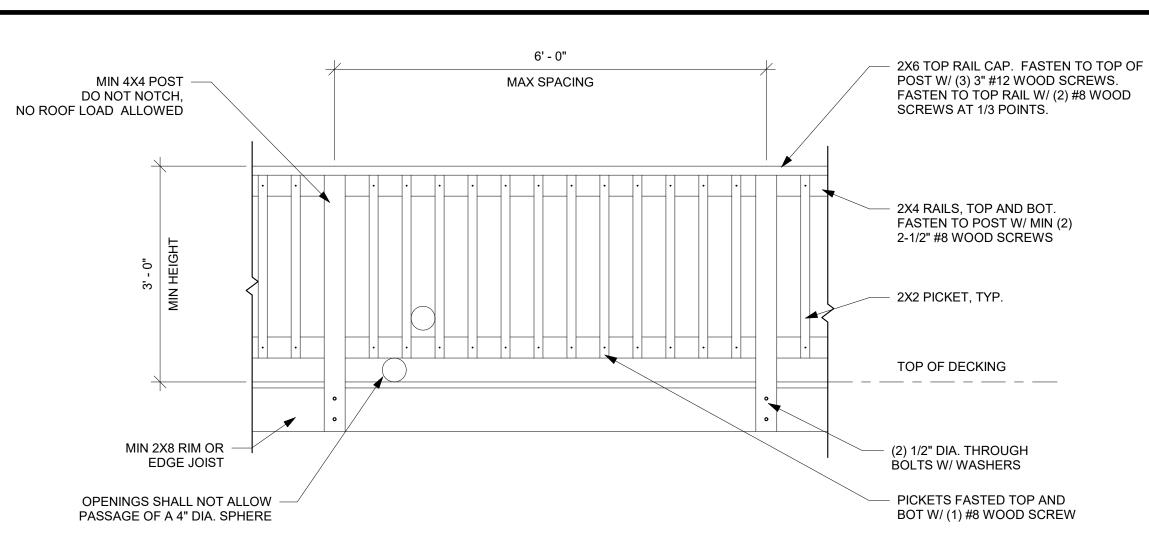
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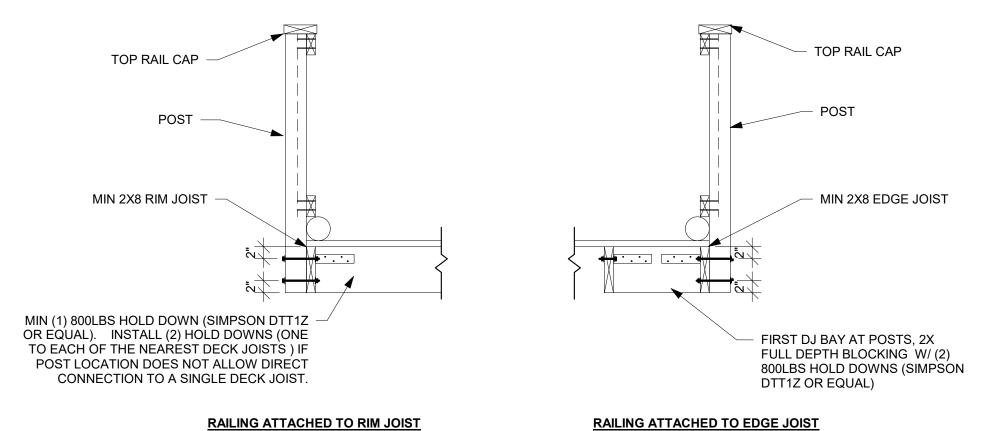
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DECK RAILING DETAIL DRAWN TO MEET THE INTENT OF R312 OF THE 2018 IRC AND A CONCENTRATED LOAD OF 200 LBS PER 1607.8.1 OF THE 2018 IBC.

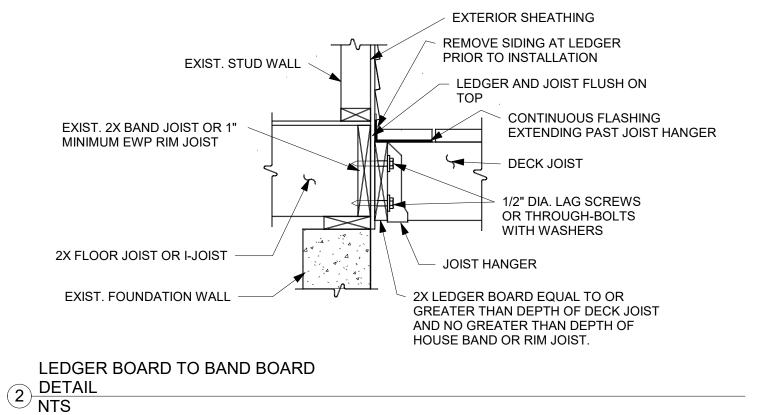


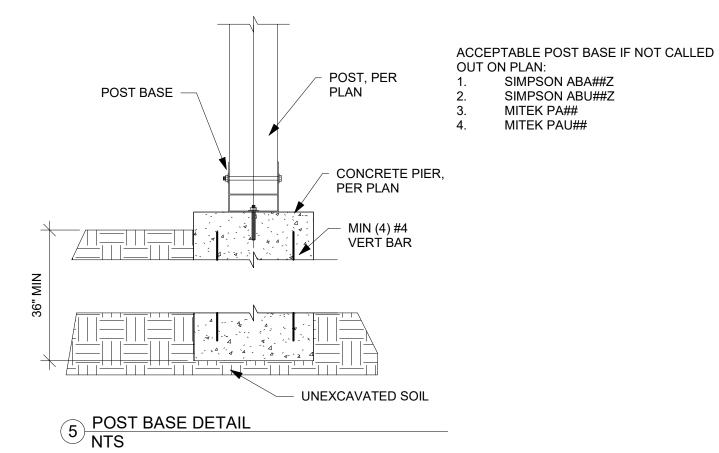
DECK RAILING

NTS

LEDGER LAG SCREW OR BOLT D = 5.5" MIN. FOR 2x8* D = 6.5" MIN. FOR 2x10 D = 7.5" MIN. FOR 2X12 *DISTANCE SHALL BE PERMITTED TO BE REDUCED TO 4.5" IF LAG SCREWS ARE USED OR BOLT SPACING IS REDUCED TO THAT OF LAG SCREWS TO ATTACH 2x8 LEDGERS TO 2X8 BAND JOISTS

 $\underbrace{\textbf{4} \frac{\text{DECK LEDGER DIMENSION DETAIL}}{\text{NTS}}}$





DOUBLE NOMINAL BEAM

TYPICAL POST TO BEAM ATTACHMENT

(2) 1/2" DIA. THROUGH BOLTS W/ WASHERS

3 DETAIL NTS

POST CAP; ATTACHMENT PER

MANUFACTURERS

6X6 POST

INSTRUCTIONS

3-PLY BEAM

OPTION 2

MUST USE POST CAP OPTION

STAGGER FASTENERS

IN TWO ROWS

TABLE 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 = DECK DEAD LOAD = 10 PSF) 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' ON CENTER SPACING OF FASTENERS CONNECTION DETAILS 1/2" DIAMETER LAG SCREW WITH 18 15 10 23 13 11 15/32" MAX SHEATHING 1/2" DIAMETER BOLT WITH 15/32" 36 36 34 21 29 24 19 MAX SHEATHING 1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING AND 1/2" STACKED 16 29 24 21 18 WASHERS

REVISIONS

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HANNAH CHRISTINE

NUMBER PE-2023046346

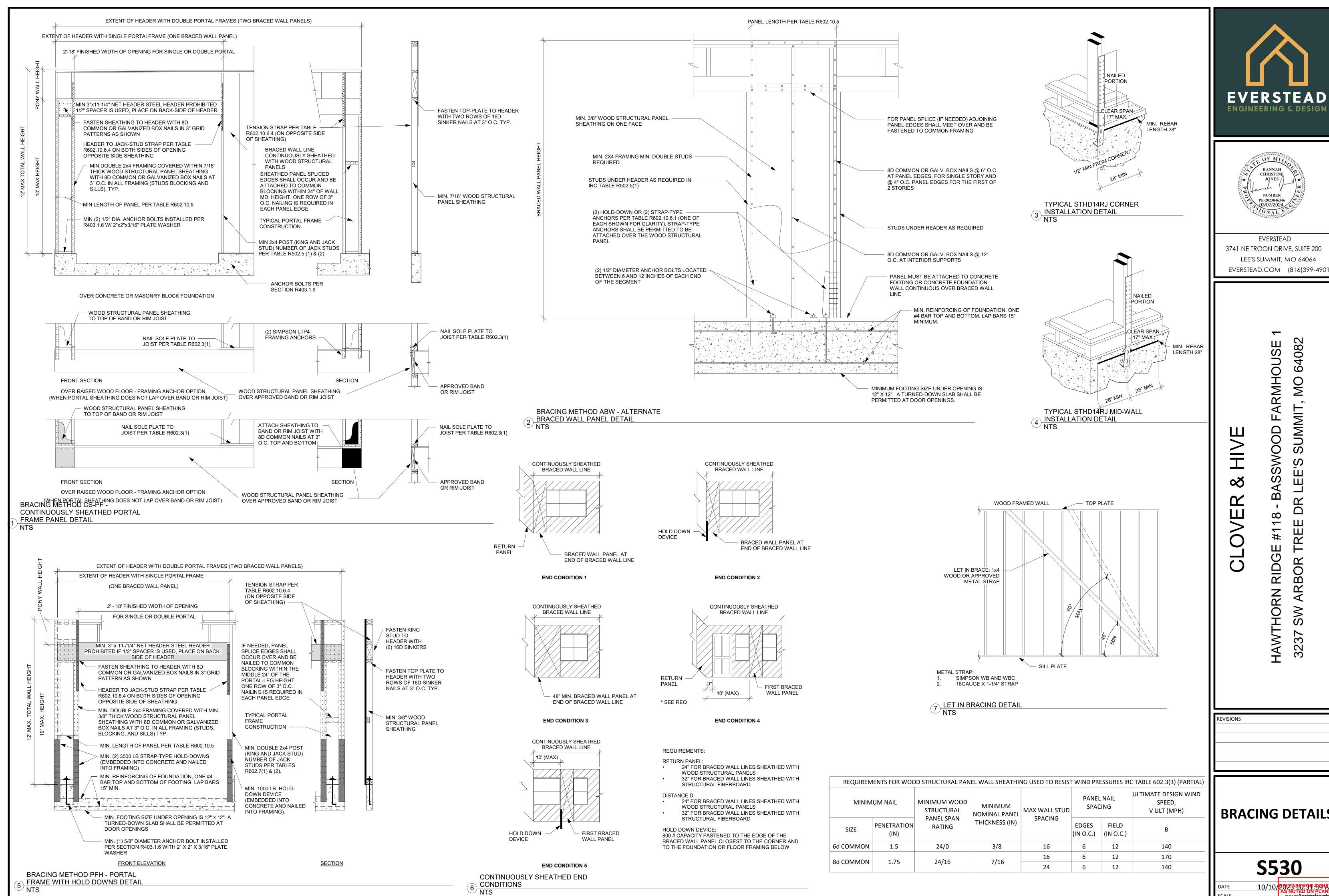
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BRACING DETAILS

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BRACING METHODS TABLE R602.10.4 (PARTIAL) MINIMUM CONNECTION CRITERIA			
METHODS, MATERIAL	MINIMUM THICKNESS	FASTENERS	SPACING
WSP - WOOD STRUCTURAL PANEL AND CS-WSP CONTINUOUSLY SHEATHED	3/8" PANEL W/ MINIMUM 24/0 STRUCTURAL PANEL SPAN RATING	6d COMMON NAILS (2.0" x .113") W/ MINIMUM 1.5" PENETRATION	6" EDGES, 12" FIELD
WOOD STRUCTURAL PANEL	7/16" PANEL W/ MINIMUM 24/16 STRUCTURAL PANEL SPAN RATING	8d COMMON NAILS (2.5" x .131") W/ MINIMUM 1.75" PENETRATION	6" EDGES, 12" FIELD
PFH - PORTAL FRAME WITH HOLD-DOWNS	3/8"	SEE DETAIL ON THIS PAGE	SEE DETAIL ON THIS PAGE
PFG - PORTAL FRAME AT GARAGE	3/8"	SEE IRC SECTION R602.10.6.3	SEE IRC SECTION R602.10.6.3
LIB LET-IN-BRACING	1x4 WOOD OR APPROVED METAL	WOOD: 2-8d COMMON NAILS OR 3-8d (2-1/2" LONG x .113" DIA.) NAILS	WOOD: PER STUD AND TOP AND BOTTOM PLATES
	STRAPS AT 45 TO 60 DEGREE ANGLES FOR MAX 16" STUD SPACING	SIMPSON WB/WBC INSTALLED IN "X" PAIRS OR IN OPPOSING "V" FASHION AND FASTENED W/ (2) 16d COMMON NAILS FOR PLATE AND (1) 8d COMMON NAIL FOR STUDS	METAL: PER STUD AND TOP AND BOTTOM PLATES
	1/2"	1/2" INTERIOR SHEATHING W/ STUDS AT 16" O.C.: 13 GAGE, 1-3/8" LONG, 19/64" HEAD; .098" DIA., 1-1/4" LONG, ANNULAR-RINGED; 5d COOLER NAIL, .086" DIA., 1-5/8" LONG, 15/64" HEAD; OR GYPSUM BOARD NAIL, .086" DIA. 1-5/8" LONG, 9/32" HEAD PER TABLE R702.3.5 (SEE TABLE FOR OTHER PANEL THICKNESS OPTIONS)	FOR ALL BRACED WALL PANEL
GB-GYPSUM BOARD		EXTERIOR 1/2" SHEATHING: 1-1/2" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE W OR S PER TABLE R602.3(1)	LOCATIONS: 7" EDGES (INCLUDING TOP AND BOTTOM PLATES) 7" FIELD
		EXTERIOR 5/8" SHEATHING: 1-3/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE W OR S PER TABLE R602.3(1)	

DESCRIPTION OF BUILDING	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION	
MATERIALS	ROOF	OF FASTENERS	
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	4-8d BOX (2-1/2"x0.113") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS	TOE NAIL	
CEILING JOISTS TO PLATE	4-8d BOX (2-1/2"x0.131") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10 BOX (3"x0.128") OR 3-3"x0.131" NAILS	TOE NAIL	
CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER LAPS OVER PARTITIONS	4-10d BOX (3"x0.128") OR 3-16d COMMON (3-1/2"x0.162") OR 4-3"x0.131" NAILS	FACE NAIL	
COLLAR TIE TO RAFTER, FACE NAIL OR 1-1/4"x20 GAGE RIDGE STRAP	4-10d BOX (3"x0.128") OR 3-10d COMMON (3"x0.148") OR 4-3"x0.131" NAILS	FACE NAIL EACH RAFTER	
RAFTER OR ROOF TRUSS TO TOP PLATE, TOE NAIL	4-16d BOX (3-1/2"x0.135") OR 3-10d COMMON (3"x0.148") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS	
ROOF RAFTERS TO	4-16d BOX (3-1/2"x0.135") OR 3-10d COMMON (3"x0.148") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS	TOE NAIL	
RIDGE, VALLEY OR HIP RAFTERS	3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS	END NAIL	
	WALL		
STUD TO STUD (NOT AT BRACED WALL	16d COMMON (3-1/2"x0.162")	24" O.C. FACE NAIL	
PANELS)	10d BOX (3"x0.128") OR 3"x0.131" NAIL	16" O.C. FACE NAIL	
STUD TO STUD AND ABUTTING STUDS AT INTERSECTION WALL CORNERS	16d BOX (3-1/2"x0.135") OR 3"x0.131" NAIL	12" O.C. FACE NAIL	
(AT BRACED WALL PANELS)	16d COMMON (3-1/2"x0.162")	16" O.C. FACE NAIL	
BUILT-UP HEADER, TWO PIECES	16d COMMON (3-1/2"x0.162")	16" O.C. EACH EDGE FACE NAIL	
WITH 1/2" SPACER	16d BOX (3-1/2"x0.135")	12" O.C. EACH EDGE FACE NAIL	
CONTINUOUS HEADER TO STUD	5-8d BOX (2-1/2"x0.113") OR 4-8d COMMON (2-1/2"x0.131") OR 4-10d BOX (3"x0.128")	TOE NAIL	
TOP PLATE TO TOP PLATE	16d COMMON (3-1/2"x0.162")	16" O.C. FACE NAIL	
TOP PLATE TO TOP PLATE	10d BOX (3"x0.128") OR 3"x0.131" NAIL	12" O.C. FACE NAIL	
DOUBLE TOP PLATE SPLICE	8-16d COMMON (3-1/2"x0.162") OR 12-16d BOX (3-1/2"x0.135") OR 12-10d BOX (3"x0.128") OR 12-3"x0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)	
BOTTOM PLATE TO JOIST, RIM JOIST,	16d COMMON (3-1/2"x0.162")	16" O.C. FACE NAIL	
BAND JOIST, OR BLOCKING (NOT BRACED WALL PANELS)	-16d BOX (3-1/2"x0.135") OR 3"x0.131" NAIL	12" O.C. FACE NAIL	
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (AT BRACED WALL PANELS)	3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162") OR 4-3"x0.131" NAILS	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL	
TOP OR BOTTOM PLATE TO STUD	4-8d BOX (2-1/2"x0.113") OR 3-16d BOX (3-1/2"x0.135") OR 4-8d COMMON (2-1/2"x0.131") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS	TOE NAIL	
	3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS	END NAIL	
TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3"x0.128") OR 2-16d COMMON (3-1/2"x0.162") OR 3-3"x0.131" NAILS	FACE NAIL	
1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2-1/2"x0.113") OR 2-8d COMMON (2-1/2"x0.131") OR 2-10d BOX (3"x0.128") OR 2 STAPLES 1-3/4"	FACE NAIL	
1"x6" SHEATHING TO EACH BEARING	3-8d BOX (2-1/2"x0.113") OR 2-8d COMMON (2-1/2"x0.131") OR 2-10d BOX (3"x0.128") OR 2 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG	FACE NAIL	
1"x8" AND WIDER SHEATHINGTO EACH BEARING	3-8d BOX (2-1/2"x0.113") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 3 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG WIDER THAN 1"x8": 4-8d BOX (2-1/2"x0.113") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 4 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG	FACE NAIL	

BAND OR RIM JOIST TO JOIST		FLOOR			
BLUENDED OR PLATE BE COMMON (2-12-20-1317) OR 1-30-6131 NAIL STOCK STAND STA		3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR	TOE NAIL		
(ROOF APPLICATIONS ALSO) 109 BOX (270 1281) OR 370 1381 NAL 11%0" SUBFLOOR OR LESS TO 280 BOX (270 1381) OR 370 1281 OR 370 1281 OR 27 SUBFLOOR TO LOIST OR 27 PLANKS (PLANKS BEAM-FLOOR & 27 PLANKS (PLANKS BEAM	RIM JOIST, BAND JOIST OR	8d BOX (2-1/2"x0.113")	4" O.C.	TOE NAIL	
### SUBBLOOK OF LESS TO ### SU		10d BOX (3"x0.128") OR	6" O.C. TOE NAIL		
### 2-164 COMMON (3-12'\0.182')		2-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR	FACE NAIL		
BAND OR RIM JOIST TO JOIST 3-164 COMMON (3-12/2-0-162′) OR 4-106 BOX (37/0-0-128′) OR 4-106 BOX (37/0-0-128′) OR 4-37/0-131′ NAILS OR 4-106 BOX (37/0-0-128′) OR 4-37/0-131′ NAILS OR 20d COMMON (37/0-128′) OR 3/3/1-128′ OR AT ADDRESS AND BEAMS 2" 10d BOX (37/0-128′) OR 3/3/0-131′ NAIL BUILT-UP GIRDERS AND BEAMS 2" 10d BOX (37/0-128′) OR 3/3/0-131′ NAIL AND: 2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-			BLIND AND FACE NAIL		
### ADD OR RIM JOIST TO JOIST ### A 1-10 B DX (3"-0.128") OR ### A 3"-X14 GA STAPLES, 716" CROWN ### A 3"-X14 GA STAPLES, 716" CROWN ### A 3"-X14 GA STAPLES, 716" CROWN ### CATTOP END AND BOTTOM A STAGGERED ON OPPOS SIDES ### ADD ALL AT TOP AND BOTTOM A STAGGERED ON OPPOS SIDES ### ADD ALL AT TOP AND BOTTOM A STAGGERED ON OPPOS SIDES ### ADD ALL AT TOP AND BOTTOM A STAGGERED ON OPPOS SIDES ### ADD ALL AT TOP AND BOTTOM STAGGERED ON OPPOS SIDES ### ADD ALL AT TOP AND BOTTOM STAGGERED ON OPPOS SIDES ### ADD ALL AT EACH JOIST OR RAFTERS ### ADD ALL AT EACH JOIST OR RAFTER, FAMILIA THE ADD ALL AT EACH JOIST OR RAFTER AND THE ADD ALL AT EACH JOIST OR RAFTER AND THE ADD ALL AT EACH JOIST OR RAFTER AND THE ADD ALL AT EACH JOIST OR RAFTER AND THE ADD ALL AT EACH JOIST OR RAFTER AND THE ADD ALL AT EACH JOIST OR RAFTER AND THE ADD ALL AT EACH JOIST OR RAFTER AND THE ADD ALL AT EACH JOIST OR RAFTER AND THE ADD ALL AT EACH JOIST OR RAFTER AND THE ADD ALL AT EACH JOIST OR THE ADD ALL AT			AT EACH BEA	RING FACE NAIL	
BUILT-UP GIRDERS AND BEAMS, 2" 10d BOX (3"x0, 128") 0 C AT TOP END AND BOTTOM A STAGGERED ON OPPOS STAGGERED ON OPPOS STAGGERED ON OPPOS SIDES	BAND OR RIM JOIST TO JOIST	4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS OR	ENI	END NAIL	
LUMBER LAYERS TOB DOL (2 3/1) 1/3 NAIL BOTTOM STAGERED ON OPPOS SIDES		20d COMMON (3"x0.128")	O.C AT TOP EN	O AND BOTTOM AND	
2-20d COMMON (47-0192*) OR 3-3*30.131* NAILS LEDGER STRIP SUPPORTING JOISTS OR RAFTERS 4-168 BOX (31*20*, 138*) OR 2-3*0*, 131* NAILS DESCRIPTION OF BUILDING NUMBER AND TYPE OF FASTENER EDGES (IN) INTERMEDIAT NAILS (AND EXAPTICLE BOARD WALL SHEATHING TO FRAMING PARTICLE BOARD WALL SHEATHING TO FRAMING SHEAT PROPERTY OF SHEAT PROP			BOTTOM STAGE	SERED ON OPPOSIT	
AT EACH JOIST OR RAFTER, PAY		2-20d COMMON (4"x0.192") OR 3-10d BOX (3"x0.128") OR	FACE NAIL AT ENDS AND AT EACH SPLICE		
2-8d COMMON (2-1/2"×0.131") OR		3-16d COMMON (3-1/2"x0.162") OR 4-10d BOX (3"x0.128") OR	AT EACH JOIST OR RAFTER, FACE NAIL		
MATERIALS NUMBER AND LYPE OF FASTENER EDGES (IN) SUPPORTS (IN		2-8d COMMON (2-1/2"x0.131") OR	EACH END, TOE NAIL		
PARTICLEBOARD WALL SHEATHING TO FRAMING SEE TABLE R602.3(3) FOR WOOD STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO WALL FRAMING 6d COMMON (2*X0.113") NAIL (SUBFLOOR, WALL) OR 8d COMMON (2*X0.113") NAIL (ROOF) OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF) 19/32" - 1"		NUMBER AND TYPE OF FASTENER	EDGES (IN)	INTERMEDIATE SUPPORTS (IN)	
WALL OR	P	ARTICLEBOARD WALL SHEATHING TO FRAMIN	IG		
1-1/8" - 1-1.4" 10d COMMON (3"x0.148") NAIL (ROOF) 6 12 OTHER WALL SHEATHING 1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING 1-1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETIER OR 1-1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN 25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING 1-1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN 1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETIER OR HEAD DIAMETIER OR 1" CROWN 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" GROWN 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN 1-1/2" GYPSUM INTERIOR COVERING (R702.3.5) 1-1/2" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE "W" OR "S" 5/8" GYPSUM INTERIOR COVERING (R702.3.5) WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING 6d DEFORMED (2"x0.120") NAIL OR 6d DEFORMED (2"x0.120") NAIL OR	3/8" - 1/2"	WALL) OR 8d COMMON (2-1/2"x0.131") NAILS (ROOF) OR	6	12	
OTHER WALL SHEATHING 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 7/16" OR 1" CROWN 1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN 1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN 1/2" GYPSUM INTERIOR COVERING (R702.3.5) 1-3/4" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, 7 TYPE "W" OR "S" 5/8" GYPSUM INTERIOR COVERING (R702.3.5) 1-3/4" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, 7 TYPE "W" OR "S" WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING	19/32" - 1"	8d COMMON NAIL (2-1/2"x0.131") OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)	6	12	
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 7/16" OR 1" CROWN 1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN 1-3/4" GALVANIZED ROOFING NAIL, 7/16" OR 1" CROWN 1/2" GYPSUM INTERIOR COVERING (R702.3.5) 1-1/2" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE "W" OR "S" 5/8" GYPSUM INTERIOR COVERING (R702.3.5) 1-3/4" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE "W" OR "S" WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING	1-1/8" - 1-1.4"		6	12	
FIBERBOARD SHEATHING HEAD DIAMETER OR 1-1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN 1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN 1-3/4" GALVANIZED ROOFING NAIL, 7/16" OR 1" CROWN 1/2" GYPSUM INTERIOR COVERING (R702.3.5) 1-1/2" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE "W" OR "S" 5/8" GYPSUM INTERIOR COVERING (R702.3.5) 1-3/4" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE "W" OR "S" WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING		OTHER WALL SHEATHING			
25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN 1/2" GYPSUM INTERIOR COVERING (R702.3.5) 1-1/2" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE "W" OR "S" 5/8" GYPSUM INTERIOR COVERING (R702.3.5) 1-3/4" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE "W" OR "S" WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING 6d DEFORMED (2"x0.120") NAIL OR		HEAD DIAMETER OR 1-1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1"	3	6	
(R702.3.5) GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, 7 TYPE "W" OR "S" 5/8" GYPSUM INTERIOR COVERING (R702.3.5) 1-3/4" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, 7 TYPE "W" OR "S" WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING 6d DEFORMED (2"x0.120") NAIL OR		HEAD DIAMETER OR 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1"	3	6	
(R702.3.5) GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, 7 TYPE "W" OR "S" WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING 6d DEFORMED (2"x0.120") NAIL OR		GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS,	7	7	
3/4" AND LESS 6d DEFORMED (2"x0.120") NAIL OR 6 13		GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS,	7	7	
	WOOD STRUCTURAL	PANELS, COMBINATION SUBFLOOR UNDERLA	YMENT TO FRAMIN	G	
	3/4" AND LESS		6	12	
7/8" - 1" 8d COMMON (2-1/2"x0.131") NAIL OR 8d DEFORMED (2-1/2"x0.120") NAIL 6 12	7/8" - 1"		6 12		
1-1/8" - 1-1/4" 10d COMMON (3"x0.148") NAIL OR 8d DEFORMED (2-1/2"x0.120") NAIL 6 12	1-1/8" - 1-1/4"		6	12	

TABLE R507.9.1.3(2) PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS

MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (INCHES)

TOP EDGE

LEDGER

BAND JOIST

BOTTOM EDGE

3/4

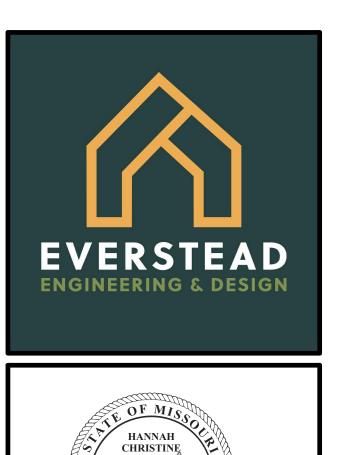
ROW SPACING

1-5/8 MIN. 5 MAX

1-5/8 MIN 5 MAX

NUMBER AND TYPE OF FASTENER

DESCRIPTION OF BUILDING MATERIALS



NUMBER PE-2023046346 03/07/2024

EVERSTEAD 3741 NE TROON DRIVE, SUITE 200

LEE'S SUMMIT, MO 64064 EVERSTEAD.COM (816)399-4901

FARMHOUSE

BASSWOOD

HAWTHORN RIDGE

SW ARBOR

64082

, MO

SUMMIT

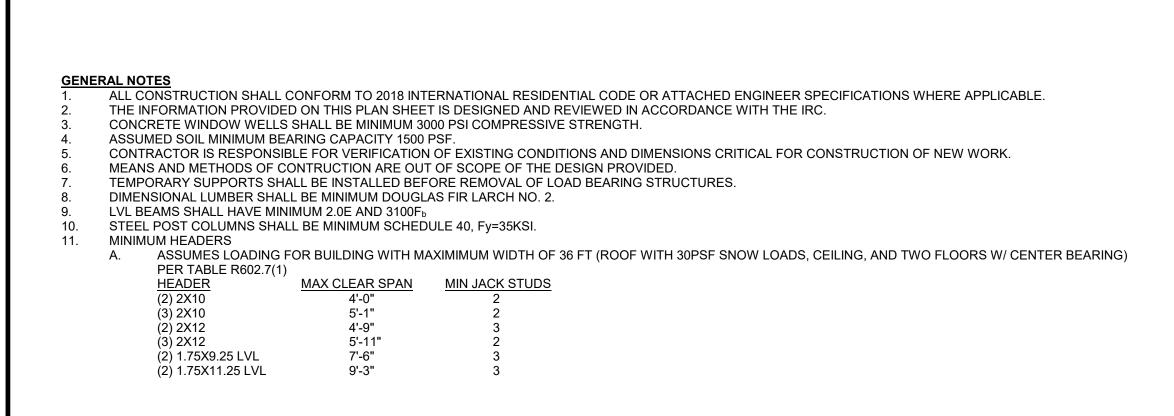
SPACING AND LOCATION OF FASTENERS

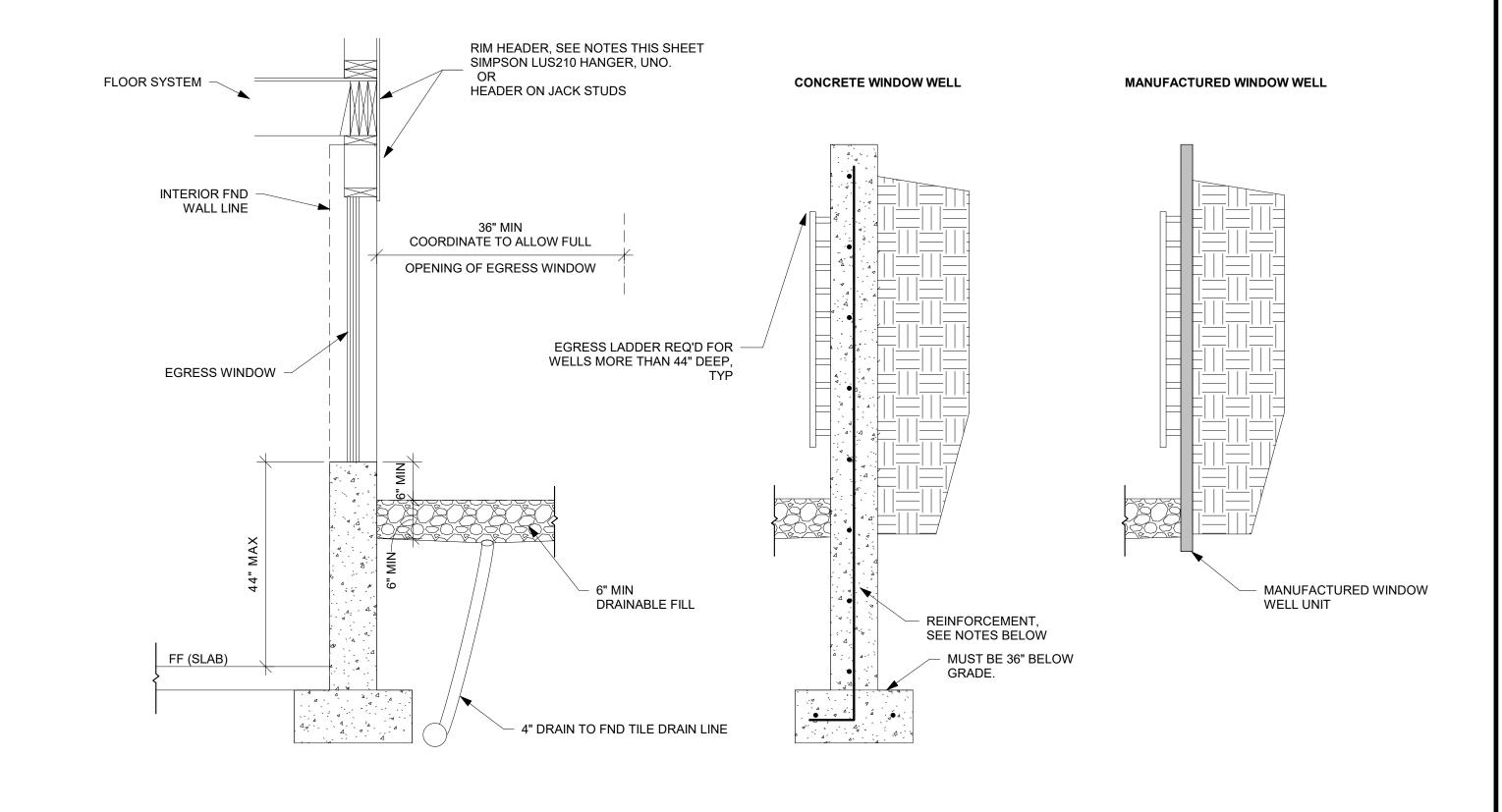
FASTENING SCHEDULE

S5<u>50</u>

REVISIONS

10/10/202390F92-020200CTION
AS NOTED ON PLANS REVIEW
DEVELD/4/MENTISEBVICES
LEE'S SUMMIT, MISSOURI
03/22/2024 4:39:15





SECTION

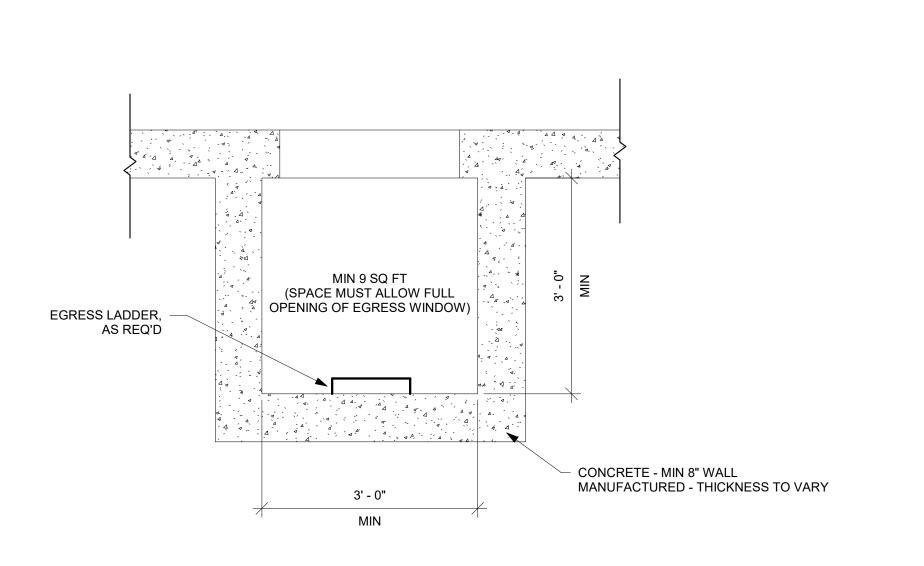
CONCRETE WINDOW WELL

MANUFACTURED WINDOW WELL

INTALLED WITH NEW FOUNDATION

REINFORCEMENT

B. INSTALLED TO EXISTING FOUNDATION a. REINFORCEMENT



WINDOW WELL MUST MEET REQUIREMENT IN R310.2.6 OF THE IRC AND LOCALLY ADOPTED CODE

POUR WINDOW WELL MONOLITHICALLY WITH ADJACENT FND WALL.

MATCH ADJACENT WALL REINFORCEMENT, SEE PLANS

COORDINATE DEPTH OF WELL WITH WINDOW AND MANUFACTURER REQUIREMENTS.

(2) #4 BAR CONT IN WALL FTG.

A. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS

DRILL AND EXPOY HOR BAR INTO EX FND, MIN 6" EMBEDMENT INTO EX FND WALL.

b. SEAL WHERE NEW CONCRETE IS POURED AGAINST EX FND WITH MASTIC STRIPS OR OTHER WATER STOP MATERIAL.

PLAN

EGRESS WINDOWS

CHRISTINI

NUMBER PE-2023046346

EVERSTEAD 3741 NE TROON DRIVE, SUITE 200

LEE'S SUMMIT, MO 64064

EVERSTEAD.COM (816)399-4901

ARMHOUSE

AS

HAWTHORN RIDG

ARBOR

408

S560

SCALE

REVISIONS

WINDOW WELL FOR EGRESS (NTS)

1' - 8"

SLIDER WINDOW

03/22/2024 4:39:15

WINDOW EGRESS (NTS)

FF ELEV

VARIES (SEE TABLE)

SINGLE HUNG WINDOW

EGRESS WINDOWS MUST CONFORM TO R310 OF THE 2018 IRC

200 SERIES

400 SERIES

250 SERIES

150 SERIES

V-2500

V-4500

MIN NET CLEAR HEIGHT SHALL BE NOT LESS THAN 2 FT MIN NET CLEAR WIDTH SHALL BE NOT LESS THAN 20 INCH

ABOVE GRADE FLOOR NOT LESS THAN 5.7 SQ FT PER R310.2.1 AT OR BELOW GRADE NOT LESS THAN 5.0 SF FT PER 310.2.1

36X60

MIN CLEAR OPENING

MATERIAL, AND STYLE.

MANUFACTURER

ANDERSON

ANDERSON

JELD-WEN

JELD-WEN

PELLA

PELLA

1' - 8"

MIN CLEAR **CASEMENT WINDOW**

MINIMUM WINDOW SIZES SHOWN BELOW ARE SPECIFIC TO THE MANUFACTURER AND VINYL WINDOW MODEL NUMBER LISTED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WINDOW SIZES WITH THE SELECTED MANUFACTURER, WINDOW FRAMING

36X40

36X48

36X42

48X40

48X48

48X48