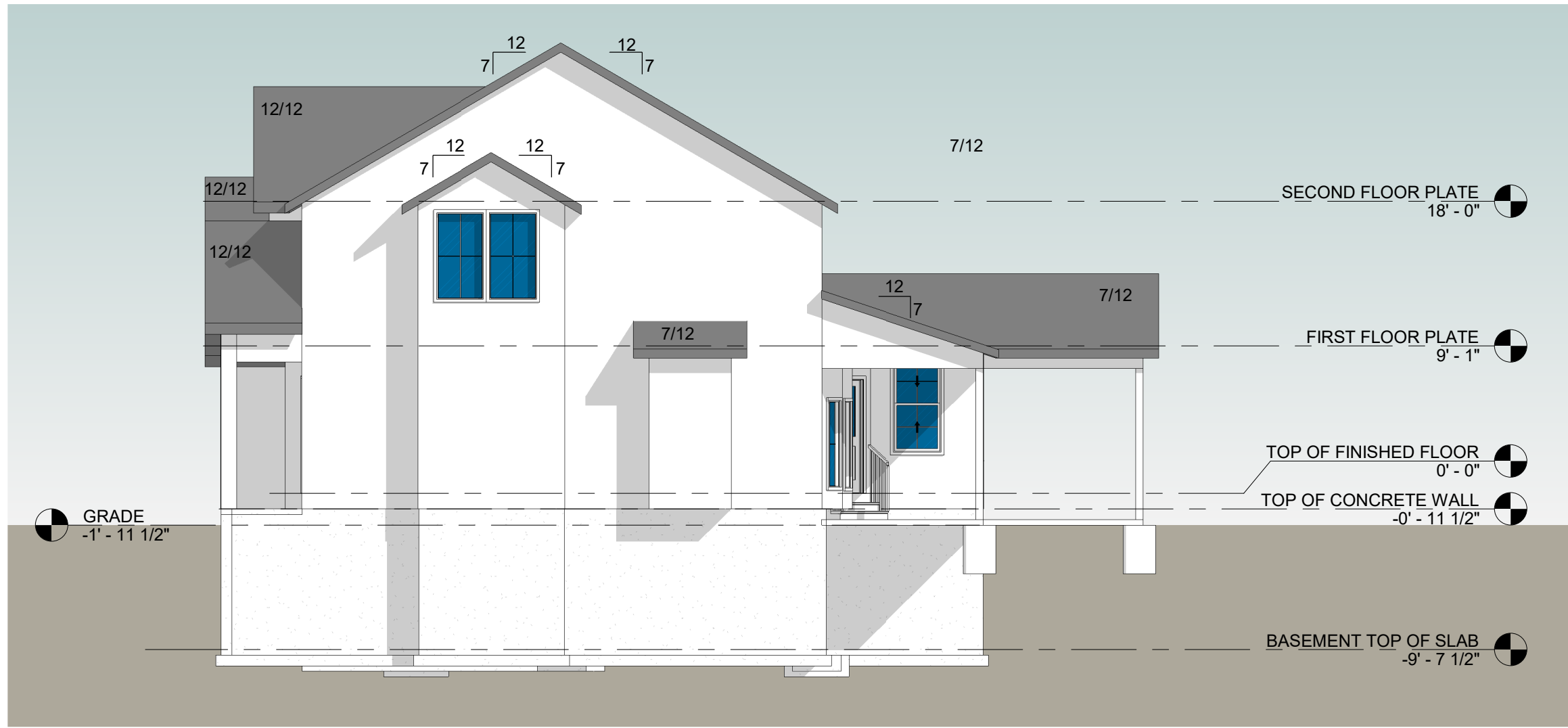
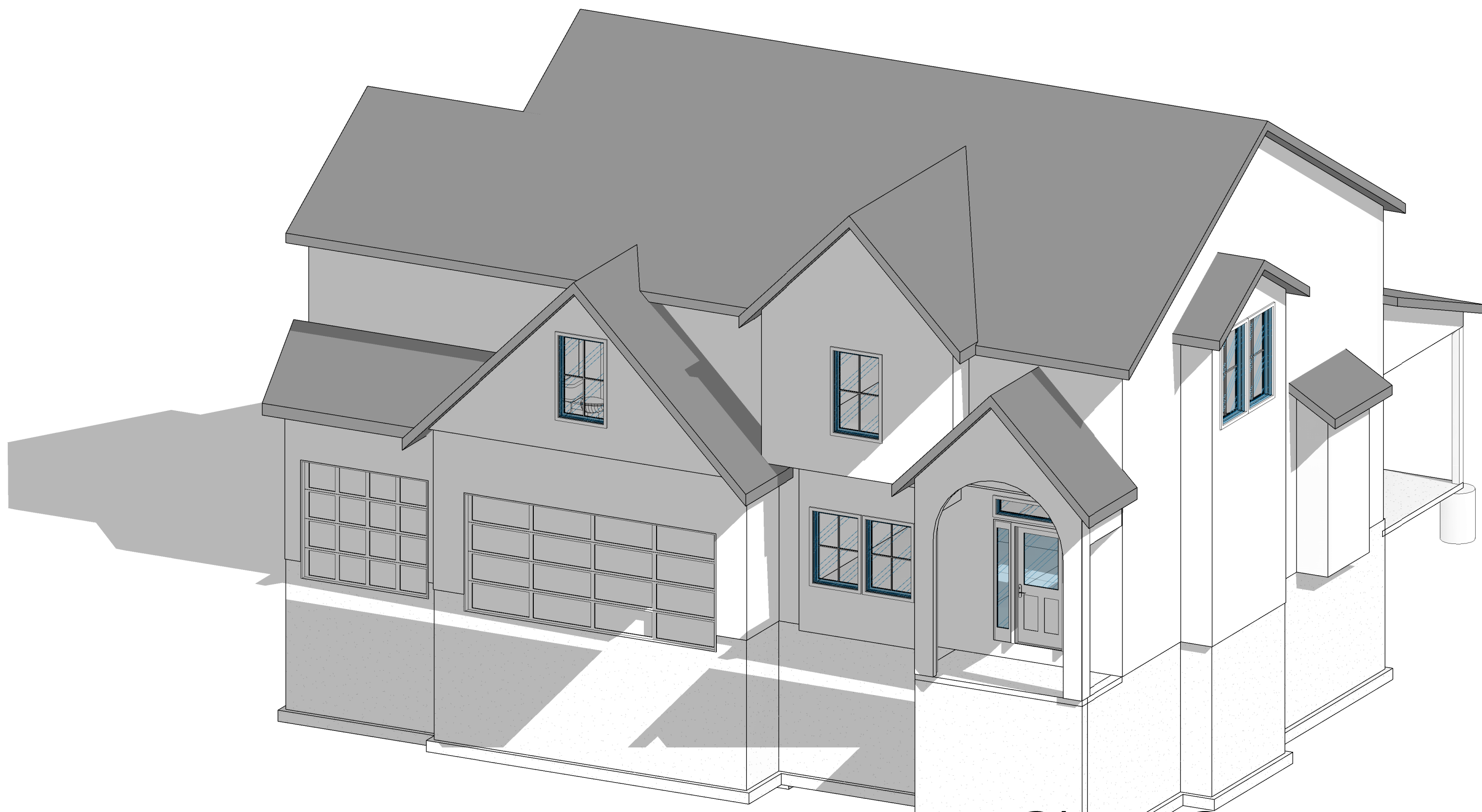


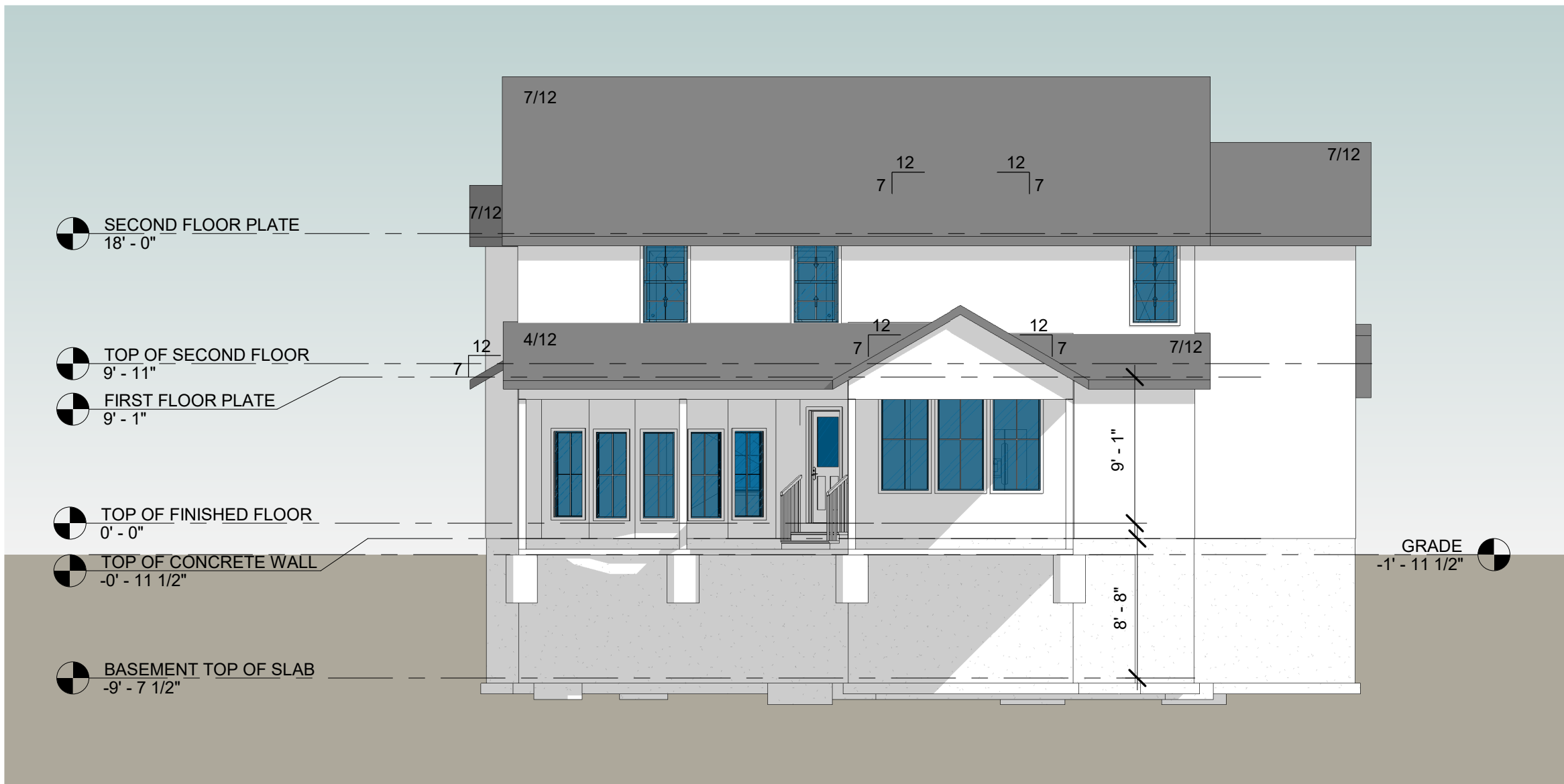
4 LEFT SIDE ELEVATION  
SCALE: 1/8" = 1'-0"



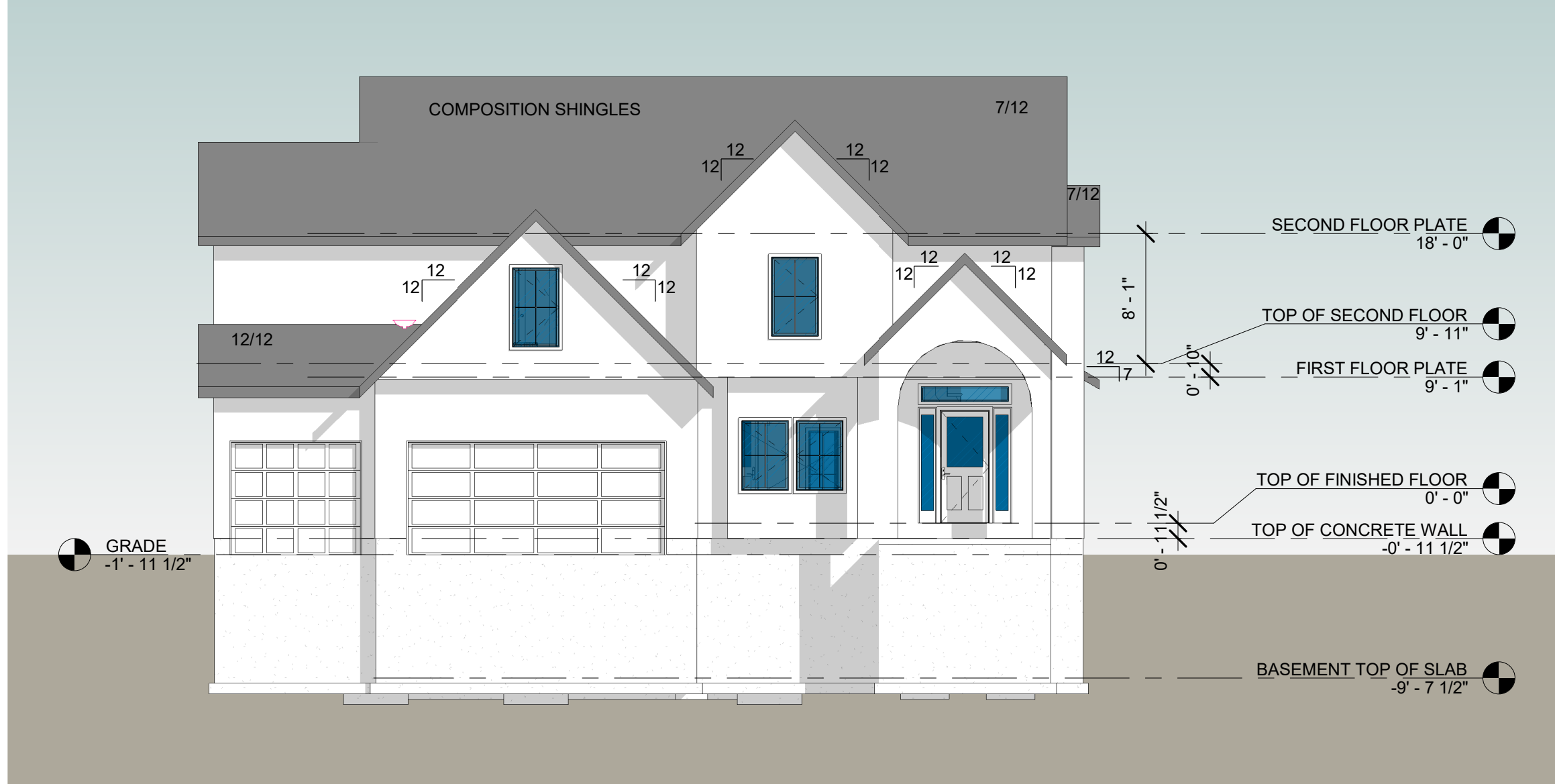
3 RIGHT SIDE ELEVATION  
SCALE: 1/8" = 1'-0"



# THE LEXINGTON II



2 REAR ELEVATION  
SCALE: 1/8" = 1'-0"



1 FRONT ELEVATION  
SCALE: 1/8" = 1'-0"

SHEET INDEX	
Sheet	Sheet Name
A100	COVER SHEET
S100	FOUNDATION PLAN
S101	FIRST FLOOR FRAMING PLAN
S102	SECOND FLOOR FRAMING PLAN
S103	ROOF FRAMING PLAN
S500	GENERAL NOTES
S501	DETAILS
S502	DETAILS
S503	DETAILS
S504	DETAILS
S505	DETAILS

SQUARE FOOTAGES	
Name	Area
FIRST FLOOR	1217 SF
SECOND FLOOR	1493 SF
GARAGE	643 SF
UNFINISHED BASEMENT	1089 SF
	4442 SF

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
12/03/2020

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STATE OF MISSOURI  
BRANDON  
SCHWABAUER  
NUMBER  
PE-2015003020  
12/01/2020  
PROFESSIONAL ENGINEER

N&S JOB NUMBER: 2020-0255

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PROJECT INFORMATION

THE LEXINGTON II

2529 SW River Trail Road  
Lee's Summit, Missouri 64082

ISSUES & REVISIONS		
#	DATE	DESCRIPTION
1	11/16/2020	PERMIT

DRAWN BY: MLR  
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ISSUED FOR:

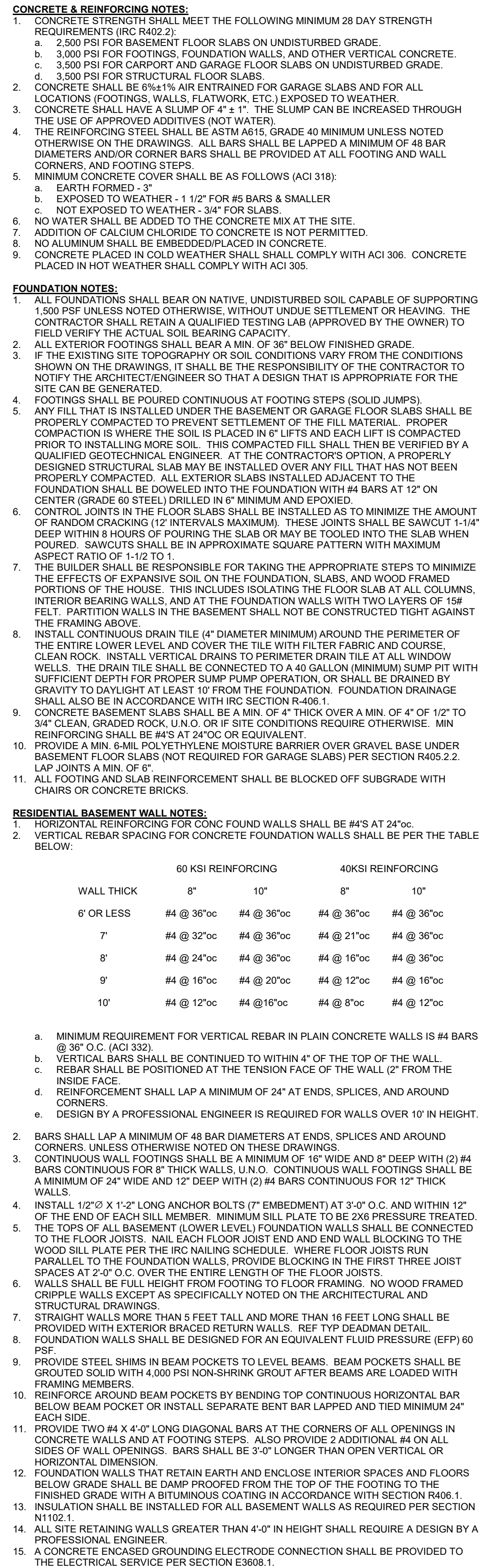
SHEET TITLE  
COVER SHEET

SHEET NUMBER  
A100



# 1 FOUNDATION PLAN

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



FOOTING SCHEDULE				
MARK	SIZE L x W x THK	REINFORCING (NO) SIZE LOCATION	TOF EL	COLUMN
F1	2'-0" x 2'-0" x 1'-0"	(4) #4 EWB BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN
F2	2'-6" x 2'-6" x 1'-0"	(4) #4 EWB BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN
F3	3'-0" x 3'-0" x 1'-0"	(6) #4 EWB BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN
F4	4'-0" x 4'-0" x 1'-4"	(8) #4 EWB BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN

## ISSUES & REVISIONS

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SHEET TITLE

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FOUNDATION PLAN

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S100

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**BRANDON**  
**SCHWABAUER**  
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**PE-20150503020**  
**12/01/2020**  
**PROFESSIONAL ENGINEER**

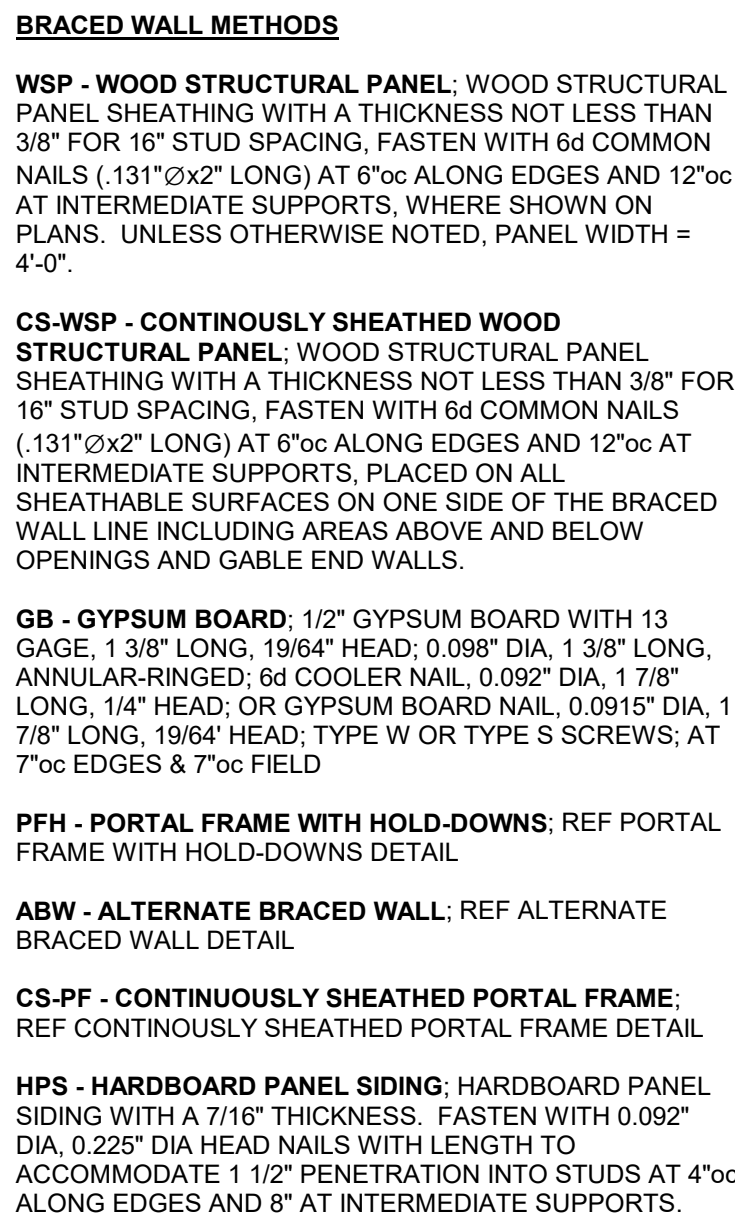
*Brandon Schwabauer*

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# 1 FIRST FLOOR FRAMING PLAN

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



THE LEXINGTON II  
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FIRST FLOOR  
FRAMING PLAN

SHEET NUMBER

S101

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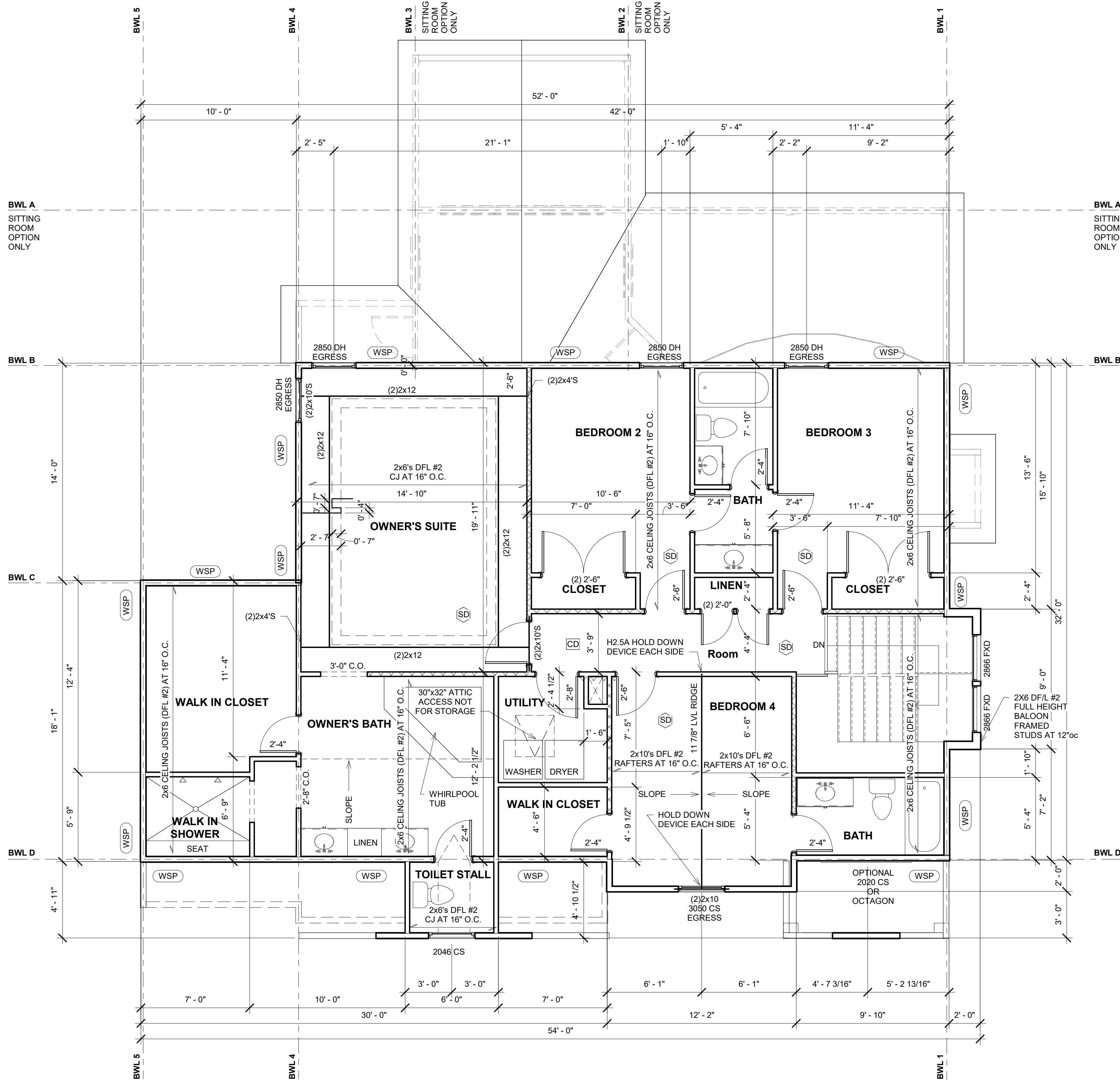
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*Brandon Schwabauer*

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# 1 SECOND FLOOR FRAMING PLAN



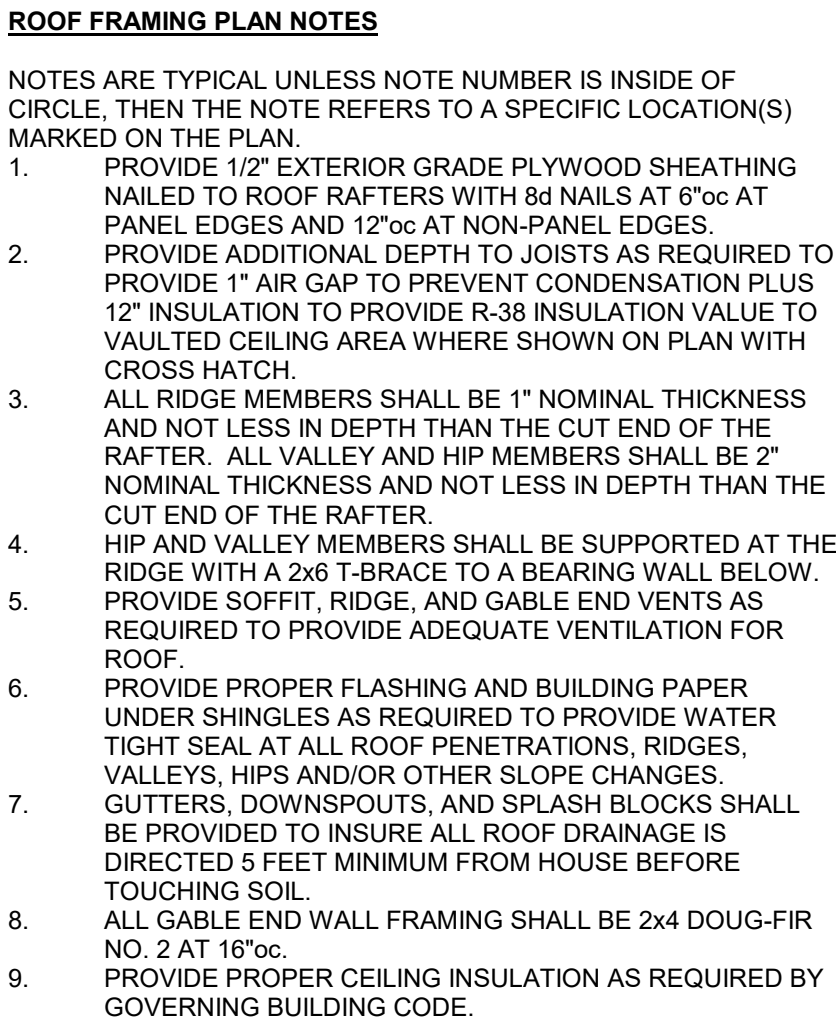
**HPS - HARDBOARD PANEL SIDING; HARDBOARD PANEL SIDING WITH A 7/16" THICKNESS. FASTEN WITH 0.092" DIA, 0.225" DIA HEAD NAILS WITH LENGTH TO ACCOMMODATE 1 1/2" PENETRATION INTO STUDS AT 4"oc ALONG EDGES AND 8" AT INTERMEDIATE SUPPORTS.**

# S102



# 1 ROOF FRAMING PLAN

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



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**STATE OF MISSOURI**  
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**PE-2015003020**  
**12/01/2020**  
**PROFESSIONAL ENGINEER**

**N&S JOB NUMBER: 2020-0255**  
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PROJECT INFORMATION

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THE LEXINGTON II

2529 SW River Trail Road  
Lee's Summit, Missouri 64082

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ISSUED FOR:

SHEET TITLE

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ROOF FRAMING  
PLAN

SHEET NUMBER

S103



**GOVERNING BUILDING CODE:** 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) AND ITS APPROPRIATE SUPPLEMENTS

**DESIGN LOADS:**

- \* ROOF DEAD LOAD: \_\_\_\_\_ 10 PSF
- \* ROOF LIVE LOAD: \_\_\_\_\_ 20 PSF
- \* FLOOR DEAD LOAD: \_\_\_\_\_ 10 PSF
- \* FLOOR LIVE LOAD: \_\_\_\_\_ 40 PSF
- \* BEDROOMS: \_\_\_\_\_ 30 PSF
- \* ALL OTHER LIVING AREAS: \_\_\_\_\_ 40 PSF
- \* WIND LOADS: \_\_\_\_\_ VASD=90 MPH, EXPOSURE C
- \* SEISMIC LOADS: \_\_\_\_\_ SITE CLASS "B"
- \* ASSUMED ALLOWABLE SOIL BEARING PRESSURE: \_\_\_\_\_ 1500 PSF

1. FURNISH ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN OR INFERRED BY THESE PLANS.

2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS AND FOR COORDINATING ALL DIMENSIONS AND ELEVATIONS SHOWN WITH THE EXISTING CONDITIONS. IF ERRORS ARE DISCOVERED, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT IMMEDIATELY TO BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

3. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND SHORING AS REQUIRED DURING CONSTRUCTION TO MAINTAIN THE STABILITY OF THE EXISTING STRUCTURE.

4. ALL MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND THE LOCAL MUNICIPALITY.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND HAS DESIGNED THE STRUCTURAL FLOOR FRAMING AND WALL BRACING SYSTEM OF THESE PLANS FOR THE CONSTRUCTION OF A RESIDENCE AT THE ADDRESS REFERENCED IN THE PLANS. NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. WILL NOT TAKE RESPONSIBILITY FOR ANY RE-USE OF ANY PARTS OF THE DESIGN, PLANS OR SPECIFICATIONS AT ANY OTHER PROPERTY OR ADDRESS WITHOUT OUR PRIOR WRITTEN CONSENT.

THE TERM "BUILDERS' PLANS" REFERS TO A CERTAIN LEVEL OF DEVELOPMENT OF THE DRAWINGS, AS THE NAME IMPLIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXTENT OF THE DEVELOPMENT OF THE PLANS. THE CONTRACTOR SHALL HAVE A THOROUGH UNDERSTANDING OF THE INTERNATIONAL RESIDENTIAL CODE (IRC). THE CONTRACTOR WARRANTS TO NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. THAT HE POSSESSES THE PARTICULAR COMPETENCE AND SKILL IN CONSTRUCTION REQUIRED TO BUILD THIS PROJECT WITHIN ALL REGULATIONS AND DESIGN SERVICES, AND FORTHWITH, UPON THE CONTRACTOR'S REQUEST, THE CONTRACTOR SHALL BE OBLIGATED TO OBTAIN ALL NECESSARY PERMITS AND CONSTRUCTION DOCUMENTS PROVIDED BY THE LIMITED SERVICES SHALL BE TERMED "BUILDERS' PLANS" IN RECOGNITION OF THE CONTRACTOR'S SPECIFICATION. ALTHOUGH NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. AND OUR CONSULTANTS ARE NOT PROVIDING ANY DESIGN SERVICES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AMBIGUITY OR DISCREPANCY DISCOVERED BY THE USE OF THESE PLANS SHALL BE REPORTED IMMEDIATELY TO NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. CONSTRUCTION MAY REQUIRE THAT THE CONTRACTOR ADAPT THE "BUILDERS' PLANS" TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES TO THE PLANS, AND ANY CHANGES MADE FROM THE PLANS WITHOUT THE CONSENT OF NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. ARE UNAUTHORIZED. IT IS ALSO UNDERSTOOD THAT THE CONTRACTOR WILL BE RESPONSIBLE FOR MEETING ALL APPLICABLE BUILDING CODES AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CONSTRUCTION DOCUMENTS. IN THE EVENT ADDITIONAL DETAIL OR GUIDANCE IS NEEDED BY THE CONTRACTOR OR HOMEOWNER FOR CONSTRUCTION OF ANY ASPECT OF THE PROJECT, NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. OR A QUALIFIED ARCHITECT/ENGINEER SHALL IMMEDIATELY BE RETAINED. FAILURE TO NOTIFY US OF THESE NEEDS OR OF CHANGES TO THE PLANS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONSEQUENCES.

1. WATER RESISTIVE EXTERIOR WALL COVERING, FREE FROM HOLES AND BREAKS, SHALL BE APPLIED TO STUDS OR SHEATHING OF ALL EXTERIOR WALLS. WRAP SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL BE OVERLAPPED WITH EACH OTHER WITH A MINIMUM OF 6" OVERLAP.
2. BUILDING SHALL COMPLY WITH SECTIONS 802.3 AND 802.3.1 OF THE IRC FOR RAFTER AND CEILING JOIST CONNECTIONS.
3. "UFLR" GROUND SHALL BE PROVIDED PER IRC SECTION 3608.1
4. GUTTERS, DOWNSPOUTS, AND SPLASH BLOCKS SHALL BE PROVIDED TO INSURE ALL ROOF DRAINAGE IS DIRECTED 5 FEET MINIMUM FROM HOUSE BEFORE TOUCHING SOIL.

1. MAXIMUM RISER AT STAIRWAYS IS 7 3/4" AND MINIMUM TREAD IS 10" WITH A MINIMUM 6" HEADROOM. PER IRC SEC. 503.
2. PLACE HANDRAILS ON ALL STAIRS AND/OR LEVELS THAT EXCEED 30" ABOVE THE FLOOR OR GRADE. RAILINGS TO BE MIN. 36" HIGH AND HAVE INTERMEDIATE RAILS THAT DO NOT ALLOW THE PASSAGE OF A 4" DIAMETER SPHERE AND SHALL BE SECURED TO WALLS OR STRUCTURES.
3. ENCLOSE ACCESSIBLE SPACE BENEATH STAIRS SHALL HAVE WALLS AND THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON ENCLOSURE SIDE PER SECTION R302.7.
4. STAIRWAYS BETWEEN LEVELS 3 OR MORE RISERS SHALL HAVE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE STAIR NOSINGS.
5. HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1 1/4" MINIMUM TO 2" MAXIMUM OR OTHER APPROVED EQUIVALENT.
6. GRASPABLE SURF SHALL BE CONSTRUCTED PER SECTION R311.7.10.11.

1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS. THE MINIMUM OPERABLE HEIGHT OF 24" AND WIDTH OF 21" BEDROOM THAT HAS A MINIMUM OPERABLE AREA OF 5.7 SQ. FT. WITH A MINIMUM OPERABLE HEIGHT OF 24" AND WIDTH OF 21"
2. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS AND ON EACH ADJACENT FLOOR, INCLUDING BASEMENTS AND STAIRWAYS. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM ACTIVATES ALL OTHERS AND BE HARD WIRED WITH A BATTERY BACKUP, PER IRC SEC. R314 AND NFPA 72.
3. CARBON MONOXIDE DETECTORS SHALL BE PROVIDED PER R315.

1. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN THE SECTION R308.4.2 SHALL BE OF APPROXIMATELY 1/2" THICK GLASS. GLAZING IN STORM DOORS SHALL BE OF APPROXIMATELY 1/2" THICK GLASS. GLAZING IN STORM DOORS SHALL BE OF APPROXIMATELY 1/2" THICK GLASS. GLAZING IN STORM DOORS SHALL BE OF APPROXIMATELY 1/2" THICK GLASS. NEAREST VERTICAL EDGE IS WITHIN A 24" RADIUS 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 OPERABLE ROOF GLAZING EXCEEDING 9 SQ. FT. AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36".
2. ALL WINDOWS SHALL MEET THE FALL PROTECTION REQUIREMENTS OF SECTION R312.2.

1. GARAGE FLOORS SHALL SLOPE TOWARDS THE GARAGE DOORWAYS.
2. DOORS BETWEEN THE GARAGE AND THE DWELLING SHALL BE A MINIMUM 1 3/8" SOLID CORE OR HONEY COMBED STEEL DOOR WITH A MINIMUM 1 3/8" SOLID CORE OR HONEY COMBED SELF-LATCHING DEVICE.
3. THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS UNFINISHED ATTIC AREAS BY A MINIMUM 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. WHERE UNFINISHED ATTIC AREAS ARE PROVIDED ABOVE THE GARAGE, THE GARAGE FLOOR/CEILING JOINT SHALL BE PROTECTED BY A MINIMUM 1/2" GYPSUM BOARD OR EQUIVALENT.
4. THE GARAGE FLOOR/CEILING JOINT SHALL BE PROTECTED BY A MINIMUM 1/2" GYPSUM BOARD OR EQUIVALENT. HABITABLE SPACE OCCURS ABOVE THE GARAGE THE FLOOR/CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM 5/8" TYPE X GYPSUM BOARD ON THE GARAGE CEILING. SHALL COMPLY WITH IRC SECTION R309.
5. THE GARAGE FLOOR/CEILING JOINT SHALL BE PROTECTED BY A MINIMUM 1/2" GYPSUM BOARD OR EQUIVALENT. THE FOLLOWING: 2X6 VERTICAL JAMBS RUNNING FROM THE FLOOR TO CEILING ATTACHED WITH 1 3/4"x1/2" NAILS @ 70" STAGGERED WITH 3 1/4"x1/2" NAILS THRU THE JAMB INTO THE HEADER. MINIMUM 2X8 HEADER FOR ATTACHMENT FOR COUNTER BALANCE SYSTEM.
6. GARAGE DOORS SHALL MEET THE REQUIREMENTS FOR A SELF CLOSING DOOR BETWEEN RESIDENCE AND GARAGE.
7. GARAGE DOORS SHALL MEET THE REQUIREMENTS OF DASHA 90 MPH.

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
  - a. STRUCTURAL STEEL, ASTM A572, GRADE 50 KSI
  - b. MISCELLANEOUS STEEL, ASTM A36
  - c. HOLLOW STRUCTURAL STEEL (HSS), ASTM A500, GRADE B (SCHED 40 MIN)
  - d. STEEL PIPE, ASTM A53, GRADE B (SCHED 40 MIN)
2. ALL BEAM CONNECTIONS SHALL BE DESIGNED BY THE STEEL FABRICATOR UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER. ALL BRACKET CONNECTIONS SHALL BE DESIGNED BY THE STEEL FABRICATOR UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER. CONNECTIONS ARE DESIGNED TO 50% U.T. OR THE REACTION PROVIDED ON THE DRAWINGS, WHICHEVER IS GREATER. CONNECTIONS SHALL BE WELDED OR BOLTED PER AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION. BOLTS SHALL BE ASTM A325N.
3. ALL WELDS SHALL BE WELDED BY A WELDER QUALIFIED TO THE AISC WELDED CONNECTIONS QUALIFICATION GUIDE. WELDING SHALL CONFORM TO THE LATEST PUBLICATION OF APPLICABLE CODES SET FORTH BY THE AMERICAN WELDING SOCIETY. NO UNAUTHORIZED WELDS WILL BE ACCEPTED.
4. ALL BRACKET CONNECTIONS TO STEEL COLUMNS WELDED IN CONTACT WITH SLAB-ON-GRADE.
5. ALL EXTERIOR STEEL EXPOSED TO THE ELEMENTS SHALL BE HOT DIPPED GALVANIZED UNLESS NOTED OTHERWISE.
6. ALL EXTERIOR STEEL SHALL BE PAINTED WITH AN ANTI-RUST INHIBITIVE PRIMER CONFORMING TO SPECIFICATIONS. FIELD TOUCHUP ALL UNPAINTED AREAS AND WELD AREAS.

- ALL STRUCTURAL LUMBER (RAFTERS, CEILING JOISTS, PURLINS AND HEADERS) SHALL BE DOUGLAS FIR LARCH #2 OR BETTER UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL LOAD BEARING WALL STUDS AND PURLIN STUDS SHALL BE DOUGLAS FIR STUD GRADE OR BETTER.
- GLUE LAMINATED MEMBERS MARKED "LV" (LAMINATED VENEER LUMBER) SHALL HAVE A MINIMUM ALLOWABLE BENDING STRESS (F<sub>b</sub>) OF 2600 PSI, A MINIMUM ALLOWABLE SHEAR STRESS (F<sub>v</sub>) OF 285 PSI, AND A MINIMUM MODULUS OF ELASTICITY (E) OF 2,000 KSI. ALL MANUFACTURER'S RECOMMENDATIONS FOR NAILING AND CONNECTIONS SHALL BE FOLLOWED.
- FLOOR JOISTS BEHIND PARTITION WALLS RUNNING PARALLEL TO THE JOIST SPAN SHALL BE DOUBLED. ALL DOUBLED MEMBERS SHALL BE NAILED TOGETHER WITH 16D NAILS 1" ON CENTER IN TWO ROWS STAGGERED OR PER MANUFACTURER SPECS.
- CEILING BEAMS AND FLOOR JOISTS SHALL BE INSTALLED WHERE JOISTS BEAR ON TOP OF BEAMS OR HEADERS AND ABOVE POINT LOADS, ALL SOLID BLOCKING AND RJOIST MATERIAL SHALL BE THE SAME SIZE AND GRADE AS THE JOISTS.
- CEILING JOISTS AND CEILING JOISTS THAT BUTT INTO THE SIDE OF A HEADER OR STEEL BEAM SHALL BE ANCHORED TO THE HEADER OR STEEL BEAM WITH STANDARD JOIST HANGERS.
- ALL SUPPORTS FOR WOOD TRUSSES, RAFTERS AND PURLINS, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, SHALL BE CONCENTRICALLY LOCATED UNDER THE TRUSS OR Rafter. ALL TRUSS OR Rafter JOINTS SHALL BE DESIGNED TO RESIST CONCENTRATED LOADS SHALL BE CARRIED THROUGH THE FLOOR SYSTEM THICKNESS WITH SOLID BLOCKING OR WITH 2x4 STUD COLUMNS (SQUASH BLOCKS) THAT TRANSFER THE LOAD DOWN TO THE SUPPORT WALL OR BEAM BELOW.
- ALL TRUSS AND Rafter JOINTS SHOWN ON THE DRAWINGS SHALL CONFORM TO THE NAILING SCHEDULE OF THE GOVERNING BUILDING CODE. SPACING, END DISTANCES AND EDGE DISTANCES OF NAILS AND SPIKES SHALL BE AS BEAM TO AVOID THE UNUSUAL SPLITTING OF THE WOOD.
- WOOD JOIST OR BEARING STUD JOIST IN THE BASEMENT SHALL BE PROVIDED WITH A 1" MINIMUM VERTICAL EXPANSION JOINT TO ALLOW FOR HEAVE IN THE FLOOR SLAB.
- WALLS, SHALL NOT BE TIGHT BETWEEN THE SLAB AND THE FRAMING ABOVE.
- CEILING JOIST FOR HIGH WALLS OR WALLS LOCATED DIRECTLY ABOVE A BEAM LINE OR CONTINUOUS FOOTING OR CONCENTRICALLY LOCATED UNDER THE TRUSS OR Rafter SHALL BE EXTERIOR GRADE OR BETTER. ROOF AND WALL FRAMING SHALL BE OF DOUGLAS FIR-LARCH OR SOUTHERN PINE. PROVIDE SOLID BLOCKING AT ALL PANEL EDGES UNLESS OTHERWISE NOTED. WHERE PANELS ARE APPLIED ON BOTH FACES OF A WALL, PANEL JOISTS SHALL BE IDENTIFIED WITH THE APPROPRIATE GRADE TRADEMARK.
- ALL WOOD STRUCTURAL PANELS SHALL BE IDENTIFIED WITH THE APPROPRIATE GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION (APA) AND SHALL MEET THE REQUIREMENTS OF PRODUCT STANDARD PS-1.
- WOOD STRUCTURAL PANELS SHALL BE SET WITH FACE GRAIN PERPENDICULAR TO SUPPORTING MEMBERS AND STAGGED END JOINTS 4'-0".
- STANDARD WASHERS SHALL BE USED WITH ALL BOLTS FASTENING WOOD MEMBERS.
- RAW LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- ROOF FRAMING (RAFTERS, BEAMS, VALLEY AND HIP RAFTERS) SHALL HAVE A MINIMUM NOMINAL THICKNESS OF 2" AND AN ALLOWABLE BENDING STRESS (F<sub>b</sub>) OF 2600 PSI. THE RAFTERS, BEAMS AND HIP RAFTERS SHALL BE SUPPORTED AT THE RIDGE BY A 2X6 "TEE" BRACE TO A BEARING PARTITION. WHERE ROOF BRACING IS USED TO PERMIT LONGER RAFTERS SPAN, USE 2X6 "TEE" BRACES AT 4'-0" O.C. WITH CONTINUOUS 2X6 PURLIN UNDER THE RAFTERS. BRACE RAFTERS TO BEARING PARTITION.
- PROVIDE CONTINUOUS STRONG BRACES FOR CEILING JOIST SPANS 12'-0" OR GREATER.
- MAXIMUM FLOOR JOIST SPANS SHALL BE AS FOLLOWS FOR THE SIZE AND SPACING OF THE JOISTS INDICATED (40 PSF LIVE LOAD, 10 PSF DEAD LOAD):
  - a. 2X8'S AT 16" O.C. - 12'-7"
  - b. 2X10'S AT 16" O.C. - 15'-0"
  - c. 2X10'S AT 12" O.C. - 16'-10"
  - d. 2X12'S AT 16" O.C. - 17'-4"
- CEILING JOISTS (C.J.'S) ARE DF#L #2. AT 16" O.C. WITH AN ALLOWABLE SPAN AS FOLLOWS, OR AS SHOWN ON PLANS:
  - a. 2X8'S AT 16" O.C. - 12'-10"
  - b. 2X8'S AT 16" O.C. - 16'-3"
  - c. 2X10'S AT 16" O.C. - 19'-0"
  - d. 2X12'S AT 16" O.C. - 21'-0"
- ROOF RAFTERS (R.R.'S) ARE DF#L #2, WITH AN ALLOWABLE RAFTER SPAN AS FOLLOWS:

17. C. 2X8S AT 24" O.C. - 12'4"
18. 2X8S AT 16" O.C. - 15'4"
19. BRACE THE COMPRESSION FLANGE OF ALL BEAMS UNLESS NOTED OTHERWISE.
20. ALL BEAMS OR HEADERS THAT BEAR ON WOOD FRAMING SHALL BE SUPPORTED BY ANOTHER BEAM OR HEADER OR A BUILT-UP STUD COLUMN THE FULL WIDTH OF THE BEAM CONTINUOUS TO THE FOUNDATION OR OTHER STRUCTURAL FRAMING MEMBER.
21. ALL LIGHT GAGE METAL FRAMING ACCESSORIES NOTED SHALL BE AS MANUFACTURED BY "SIMPSON STRONG TIE" OR APPROVED EQUIV. ATTACH FRAMING ACCESSORIES TO WOOD FRAMING IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.
22. PROVIDE HEADERS AS SHOWN ON PLAN. FOR HEADERS NOT MARKED REFERENCE TYPICAL BEARING WALL HEADER SCHEDULE.
23. FLOOR SHEATHING SHALL BE 3/4" TONGUE & GROOVE WOOD STRUCTURAL PANEL. GLUE & NAIL TO FLOOR JOISTS WITH 8D NAIL AT 16" O.C. AT ALL PANEL EDGES AND AT 12" O.C. AT INTERMEDIATE SUPPORTS.
24. ALL EXTERIOR WOOD WALL FRAMING SHALL BE 2X6 DUG-FIR NO. 2 AT 16" O.C.
25. ALL INTERIOR BEARING WALL FRAMING SHALL BE 2X4 DUG-FIR NO. 2 AT 16" O.C. UNO.
26. WOOD TRUSSES AND THEIR CONNECTIONS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER FOR THE LOADS AND SPAN. THE TRUSS MANUFACTURER'S SHOP DRAWINGS AND CALL OUTS FOR CONNECTIONS SHALL BE FOR THE STATE OF MISSOURI SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. CONNECTION PLATES SHALL MEET THE REQUIREMENTS OF THE GOVERNING BUILDING CODE.
27. TEMPORARY BRACING OF WOOD TRUSSES DURING ERECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IN CONJUNCTION WITH ALL RECOMMENDATIONS OF THE MANUFACTURER.
28. WOOD TRUSSES SHALL NOT BE FIELD CUT.

3. THE BUILDING THERMAL ENVELOPE SHALL BE SEALED WITH AN AIR BARRIER PER IRC SECT 1202.2.
4. ENVELOPE PENETRATIONS SHALL BE SEALED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE.
5. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2% AIR LEAKAGE RATE PER 1103.2.1.
6. BUILDING CAVITIES USED AS RETURN AIR PLENUMS SHALL BE RATED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE.
7. BUILDING CAVITIES IN A THERMAL ENVELOPE WALL SHALL NOT BE USED AS RETURN AIR PLENUMS UNLESS THE REQUIRE INSULATION BARRIER IS MAINTAINED PER 1601.1.
8. NOT WATER PIPES, BUT BE INSULATED AS REQUIRED PER 1103.3.
9. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR AS REQUIRED PER M1507.2.
10. JACKETED AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM AS REQUIRED PER M1503.4.
11. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER 1601.6.
12. MINIMUM MECHANICAL RATING FOR AIR CONDITIONING SHALL BE 10 SEER.
13. MINIMUM MECHANICAL EFFICIENCY RATING FOR FORCED AIR FURNACE IS 78% AS REQ'D PER IRC.

FENESTRATION	U<=0.35 (b)
SKYLIGHT	U<=0.55 (b)
CEILING - FLAT	R-40
CEILING - VAULTED	R-38
WOOD FRAME WALL	R-13
MASS WALL	R-60R13 (f)
FLOOR OVER UNHEATED SPACE	R-10
FLOOR OVER OUTSIDE AIR	R-20
DUCTS OUTSIDE OF THE CONDITIONED SPACE	R-8
BASEMENT WALL	R-10R13 (c)
SLAB (R VALUE/DEPTH)	R-10/20 (d)
CRAWLSPACE WALL W/ FLOOR INSULATION	R-10R13 (c)
CRAWLSPACE WALL W/O FLOOR INSULATION	R-15

a. R-VALUES ARE MINIMUMS. U-FACTORS ARE MAXIMUMS. WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL NOT BE USED.

b. FIRST V-VALUE IS THE R-VALUE OF THE INSULATION WHICH IS USED TO INSULATE THE PENETRATION U-FACTOR EXCLUDES SKYLIGHTS.

c. THE SECOND FRAME R-VALUE IS FOR CONTINUOUS INSULATION. INSULATION MUST MEET THE REQUIREMENT.

d. R-5 SHALL ALSO TO THE REQUIRED SLAB EDGE R-VALUES FOR HEATED SLABS. INSULATION DEPTH SHALL BE THE DEPTH OF THE SLAB EDGE WHICH IS THE DEPTH OF THE SLAB EDGE WHICH IS THE DEPTH OF THE SLAB EDGE.

e. THERE ARE NO SHGC REQUIREMENTS IN THE MARINE ZONE.

f. BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED BY FIGURE N101.10 AND TABLE N101.10.

g. OR INSULATION SUFFICIENT TO FILL THE CAVITY. R-19 MINIMUM.

h. FIRST VALUE IS CAVITY INSULATION, SECOND IS CONTINUOUS INSULATION OR INSULATED SIDING. SO "13+5" MEANS R-13 CAVITY INSULATION AND R-5 CONTINUOUS INSULATION OR INSULATED SIDING. IF STRUCTURAL SHEATHING COVERS 40 PERCENT OR LESS OF THE EXTERIOR, CONTINUOUS INSULATION R-VALUE SHALL BE PERMITTED TO BE REDUCED BY MORE THAN R-3 IN THE LOCATIONS WHERE STRUCTURAL SHEATHING IS USED - TO MAINTAIN A CONSISTENT TOTAL R-VALUE.

i. THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF OF THE INSULATION IS ON THE INTERIOR OF THE MASS WALL.

AB	ANCHOR BOLT	MECH	MECHANICAL
ACI	AMERICAN CONCRETE INSTITUTE	MFR	MANUFACTURER
AFF	ABOVE FINISH FLOOR	ML	MINIMUM
ASIC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MIS	MISCELLANEOUS
ASIS	AMERICAN IRON AND STEEL INSTITUTE	MTL	METAL
ARCH	ARCHITECTURAL	NO	NUMBER
ASTM	AMERICAN SOCIETY FOR TESTING AND	NS	NEAR SIDE
AWS	MATERIALS	NTS	NOT TO SCALE
BFI	AMERICAN WELDING SOCIETY	OC	ON CENTER
BFS	BELOW FINISH FLOOR	OH	OPPOSITE HAND
BO	BOTTOM OF FOOTING STEP	OP	POWDER ACTUATED
BOS	BOTTOM OF	PCF	FASTENERS
BRB	BOTTOM OF STEEL	PLF	POUNDS PER CUBIC FEET
BWP	BEARING	PLT	PLATE
CIP	BRACED WALL PANEL	PSF	POUNDS PER LINEAR FOOT
CJ	CAST-IN-PLACE CONCRETE	PSI	POUNDS PER SQUARE FOOT
CL	CONTROL JOINT (WALL)	QTY	POUNDS PER SQUARE INCH
CLR	CENTER LINE	REF	REFERENCE
COL	CLEAR	REINF	REINFORCEMENT
CONC	CONCRETE	REQD	REQUIRED
CONST	CONSTRUCTION	REV	REVERSE
CONT	CONTINUOUS	RO	ROUGH OPENING
DIA	DIAMETER	SIM	SIMILAR
SIFS	DIAMETER	T&B	TOP AND BOTTOM
ELEC	EXTERIOR INSULATION AND FINISH SYSTEM	THK	TOP OF FOOTING STEP
EQ	ELEVATION	THK	TO THICK
EW	ELECTRICAL	TOC	TOP OF
FDN	EQUAL	TOF	TOP OF CONCRETE
FF	EACH WAY	TOF	TOP OF FOOTING
FTS	FOUNDATION	TOS	TOP OF PAVING
FG	FINISH FLOOR	TRANS	TOP OF STEEL
FA	FAR SIDE	TRV	TRANSVERSE
GA	FOOTING	TYP	TYPICAL
GC	GAGE	UNO	UNLESS NOTED OTHERWISE
GYP BD	GENERAL CONTRACTOR	VERT	VERTICAL
HORIZ	GYPSUM BOARD	W	WIDTH
HSA	HORIZONTAL	WBM	WALL BRACE METHOD
HD	HEADED STUD ANCHOR	WP	WORK POINT
JST	INFORMATION	WS	WALL STEP
JT	JOIST	WWF	WELDED WIRE FABRIC
KSI	JOINT		
LBS	KIPS PER SQUARE INCH		
LONG	MINIMUM		
MAX	LONGITUDINAL		
	MAXIMUM		

ELEVATION DESCRIPTION		ELEVATION DESIGNATION	REVISION DESIGNATION
	CUT SYMBOL		REVISION DESIGNATION
	SECTION CUT		PLAN NOTE SYMBOL
	ELEVATION DETAIL		SLAB JOINT DESIGNATION
	BLOWUP DETAIL		SPOT ELEVATION
	WOOD STRUCTURAL PANEL		CONCRETE WALL
	ALTERNATE BRACED WALL PANEL		WOOD NON-LOAD BEARING STUD WALL
	PORTAL FRAME WITH HOLD-DOWNS		BRACED WALL PANEL
	PORTAL FRAME AT GARAGE		BRACED WALL LINE
	SMOKE DETECTOR		WOOD STUD BEARING WALL
	CARBON-MONOXIDE DETECTOR		

# THE LEXINGTON II

2529 SW River Trail Road  
Lee's Summit, Missouri 64082

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SHEET TITLE

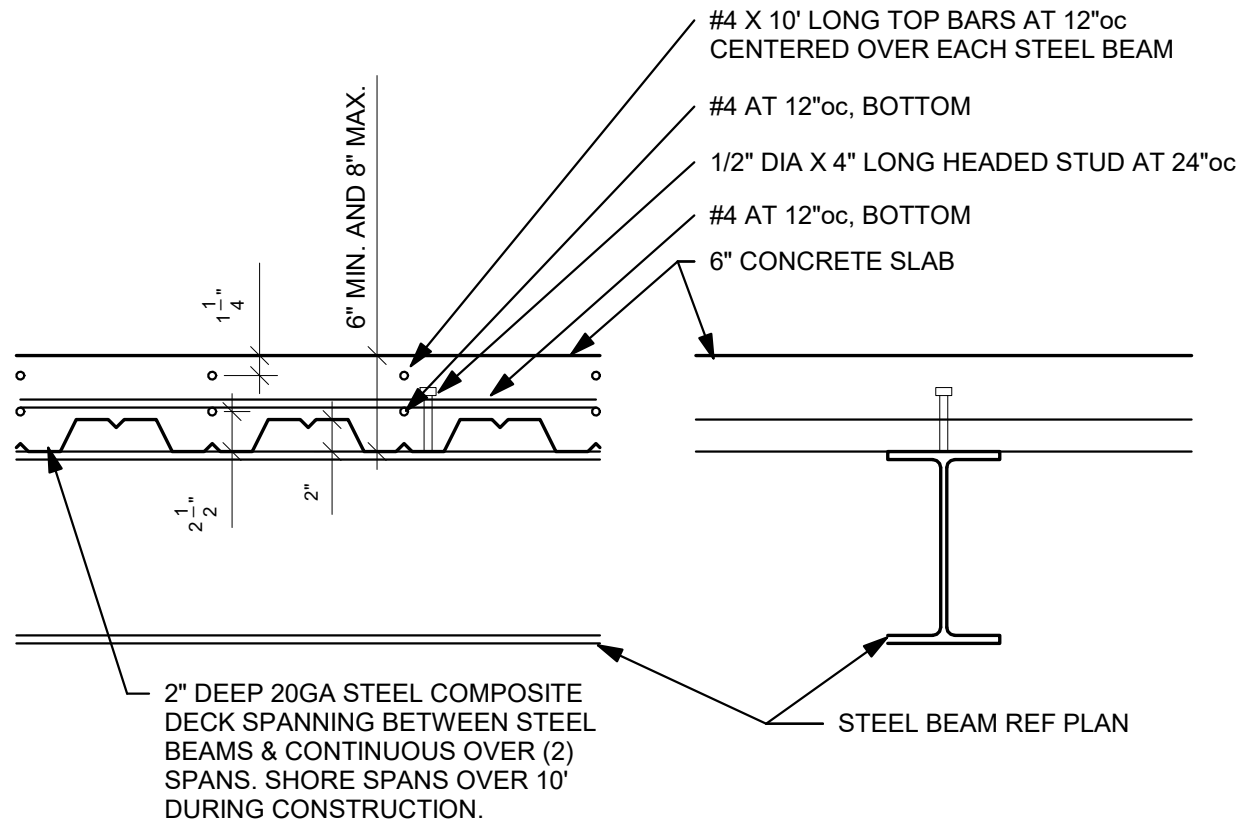
## GENERAL NOTES

## GENERAL NOTES

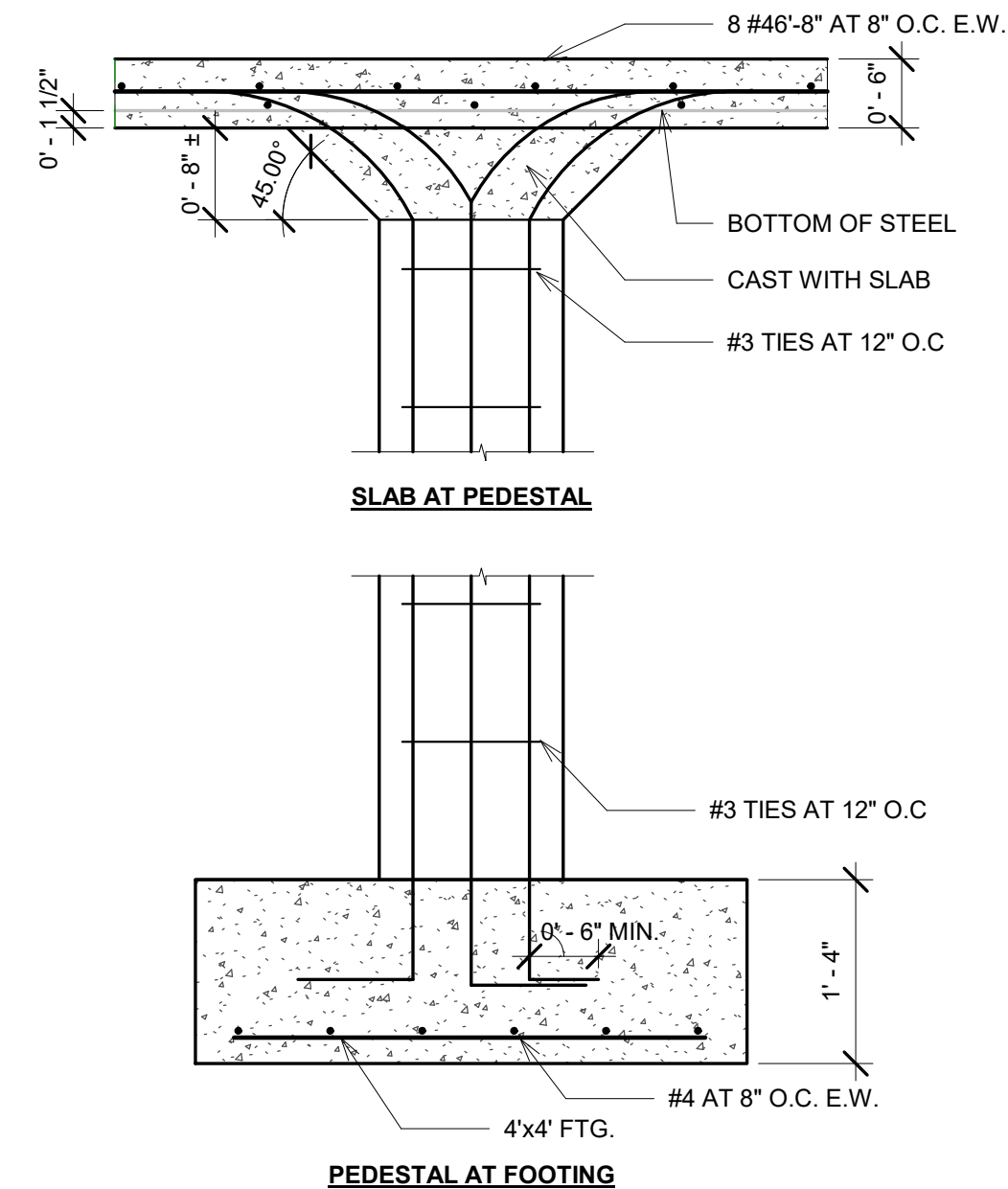
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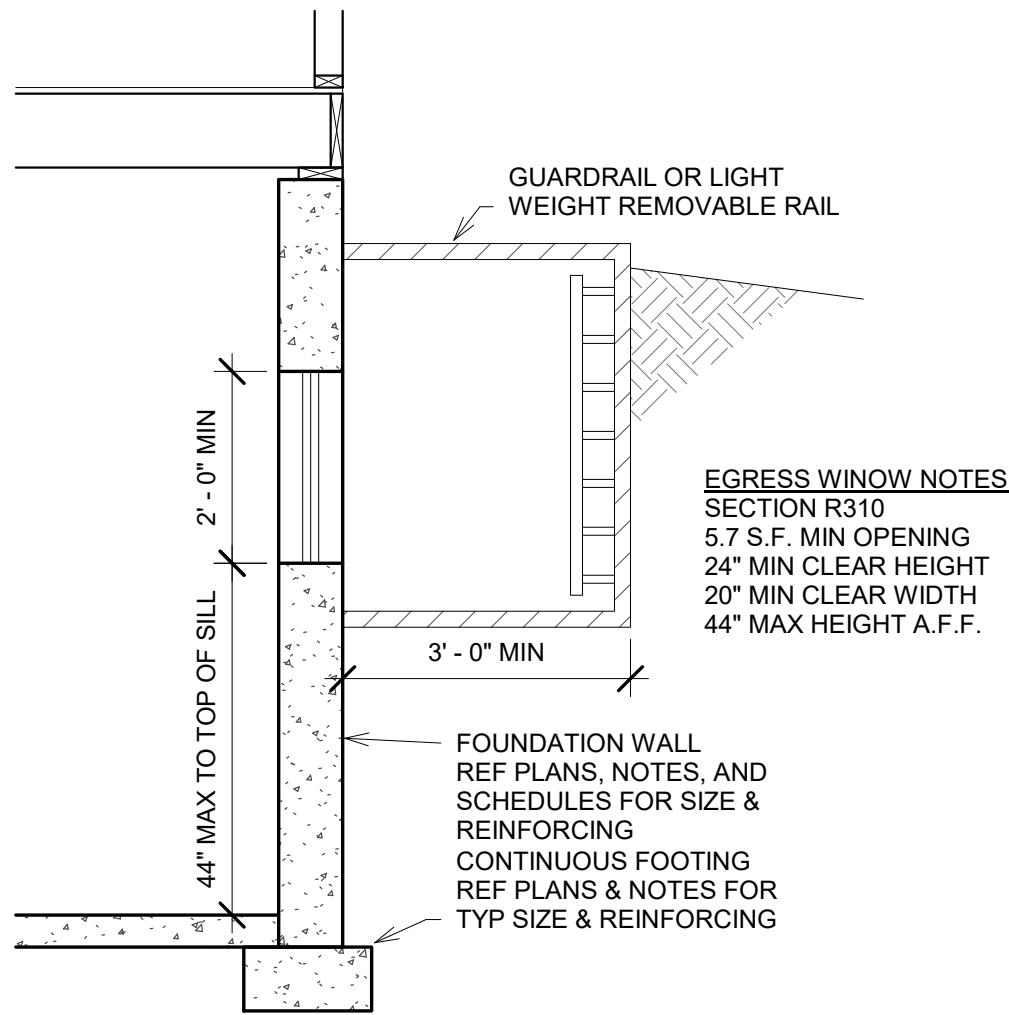
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12/03/2020



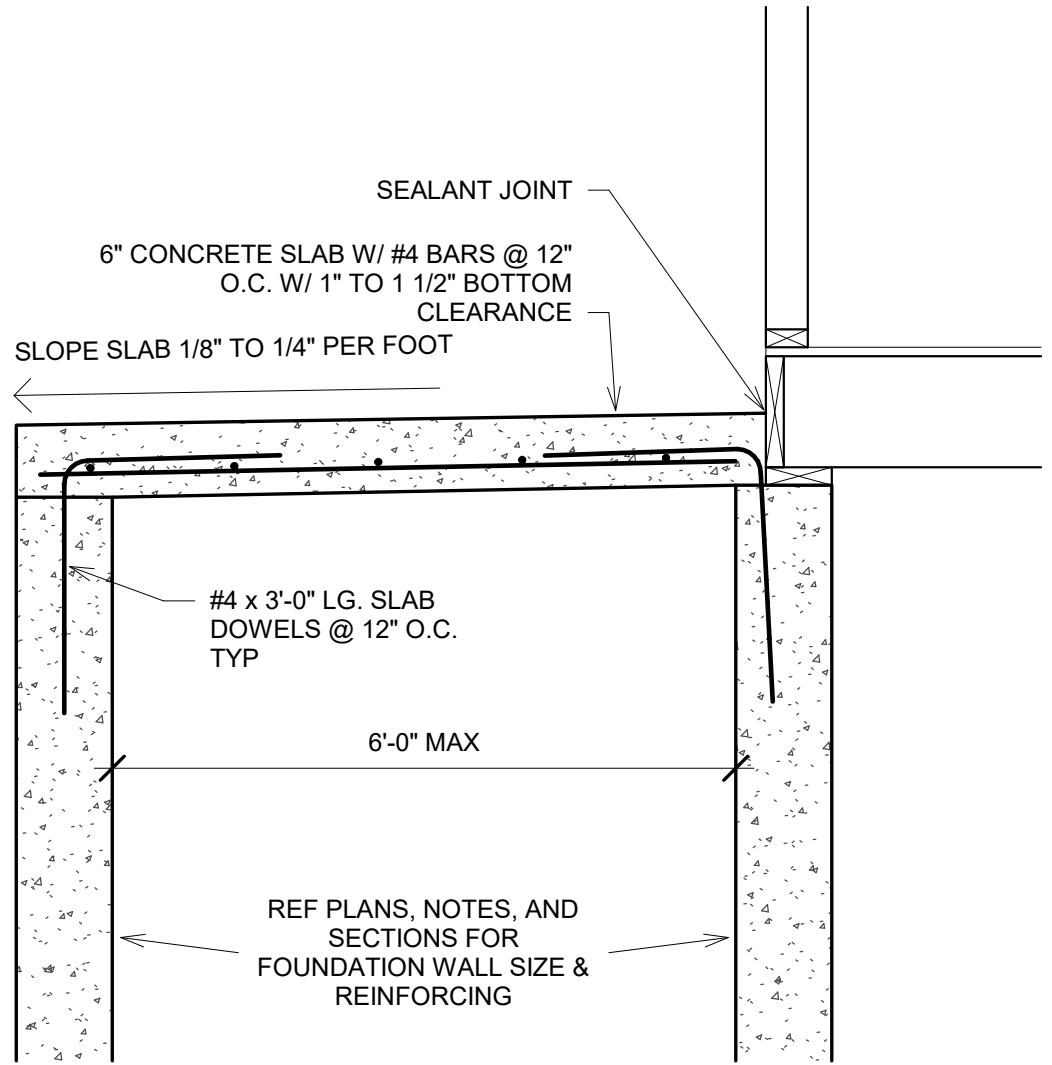
10 TYPICAL SUSPENDED SLAB  
SCALE: 1" = 1'-0"



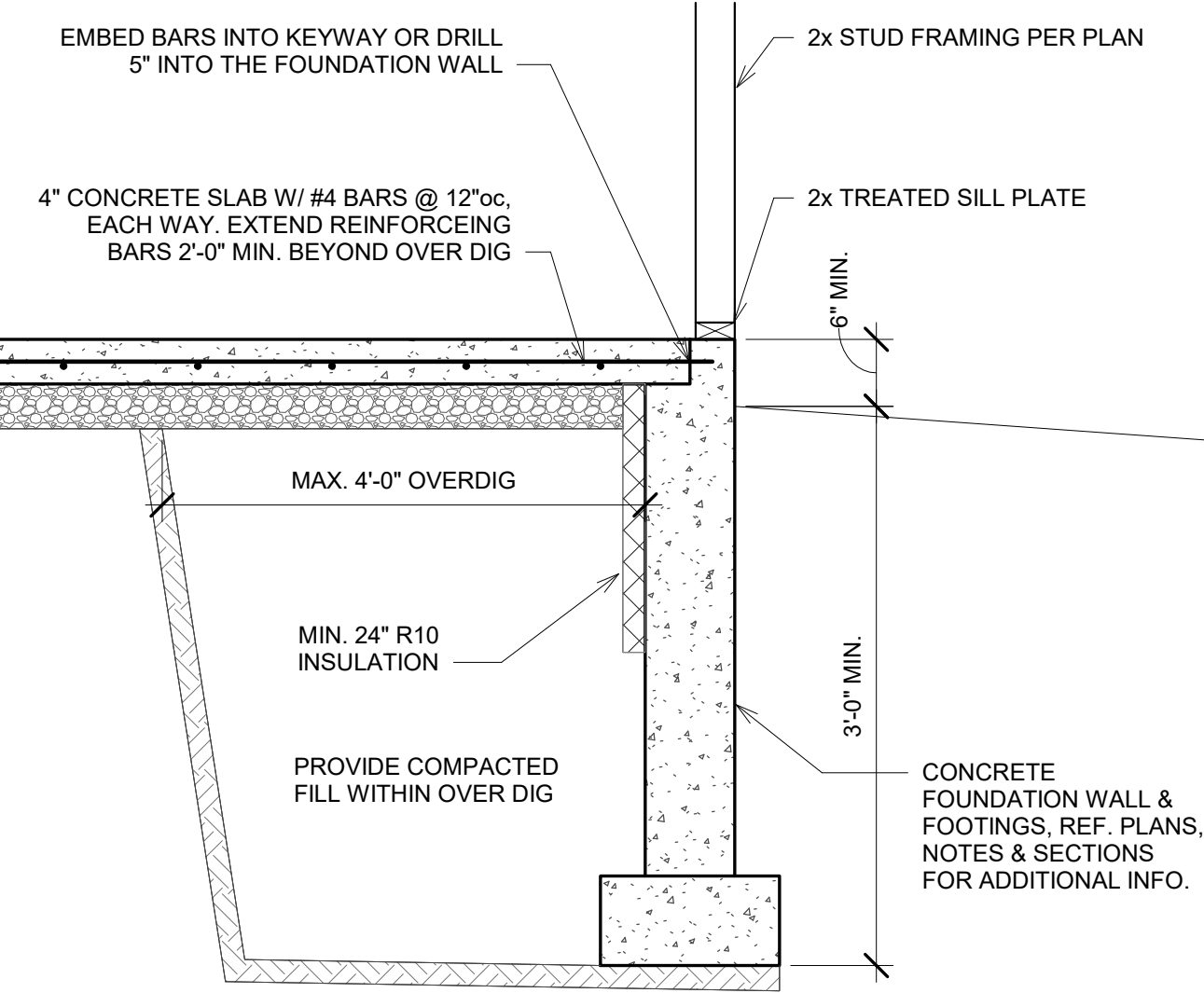
7 PEDESTAL AT GARAGE SLAB ON FILL  
SCALE: 3/4" = 1'-0"



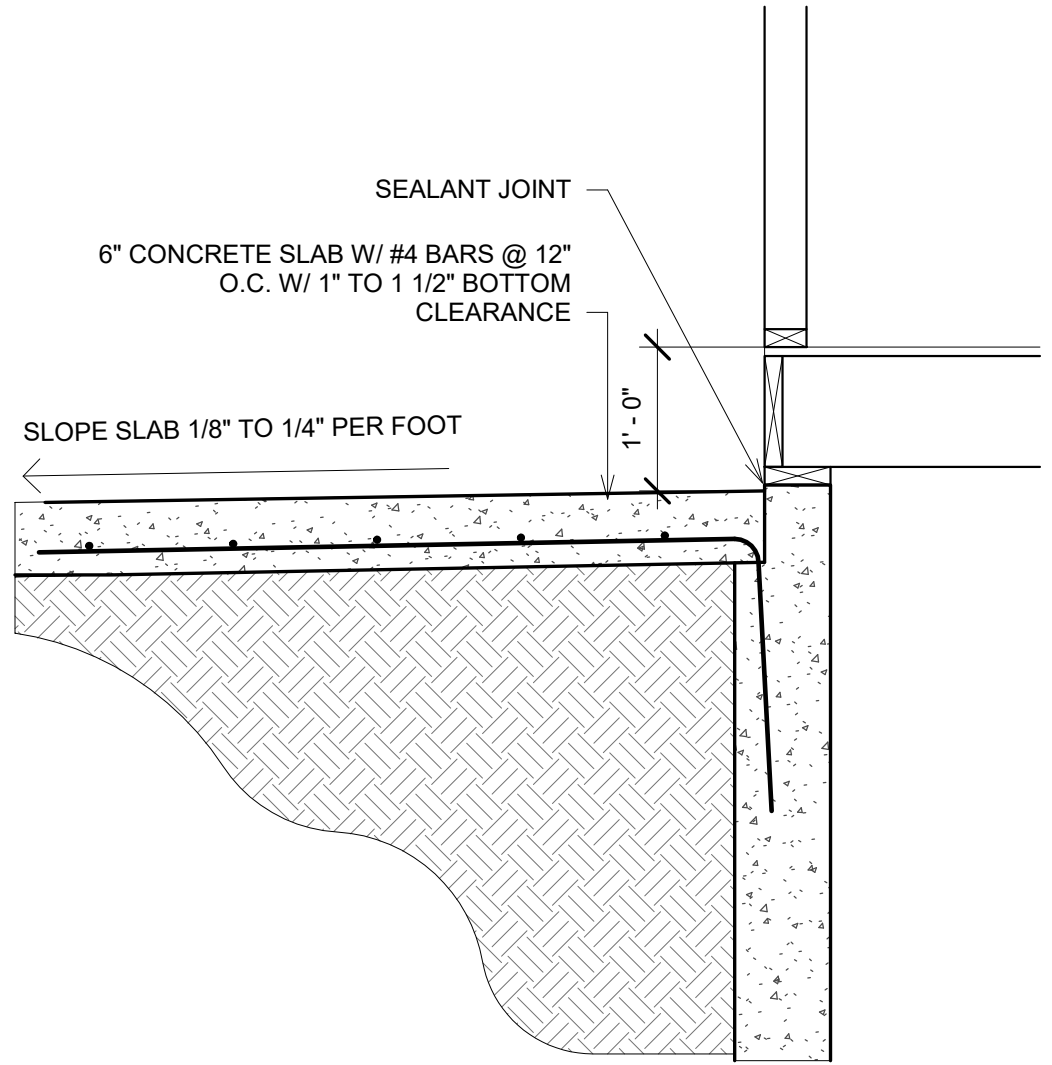
4 TYP EGRESS WINDOW SECTION  
SCALE: 1/2" = 1'-0"



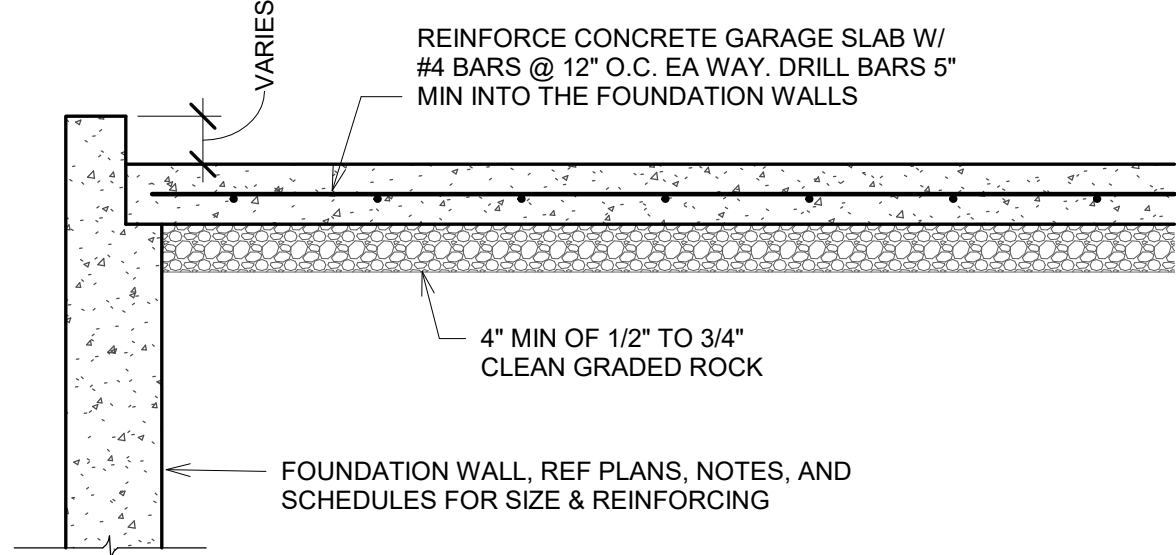
8 SUSPENDED PORCH STOOP  
SCALE: 3/4" = 1'-0"



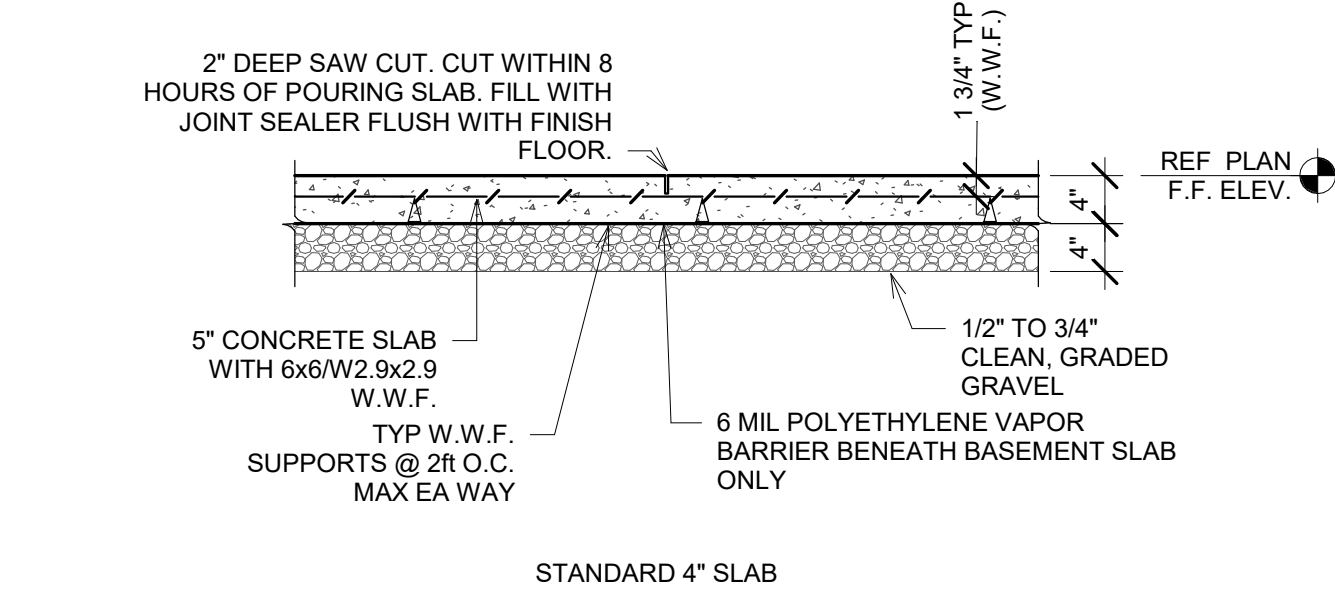
5 OVER DIG SECTION AT BASEMENT SLAB  
SCALE: 3/4" = 1'-0"



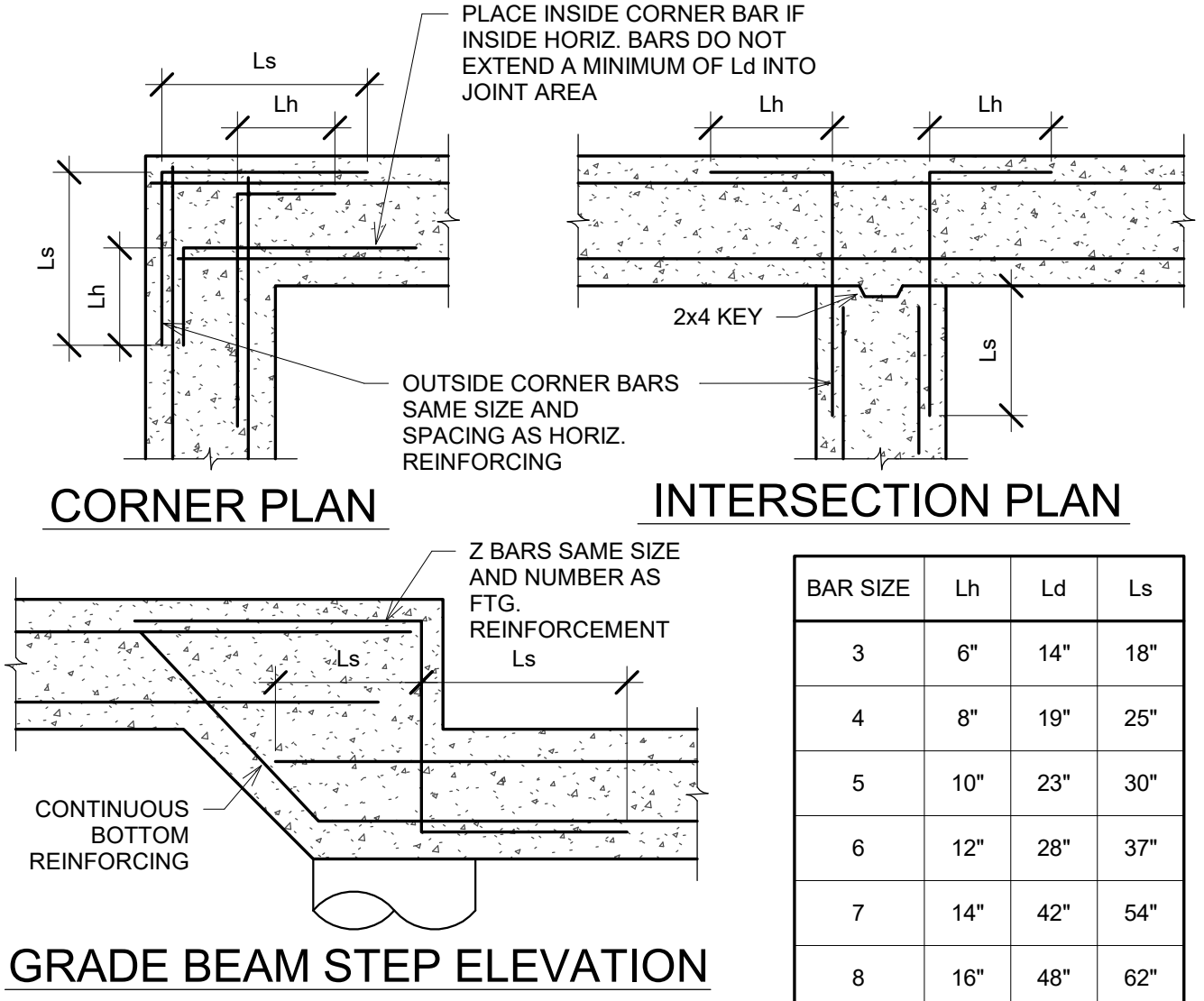
9 SLAB AT GARAGE  
SCALE: 3/4" = 1'-0"



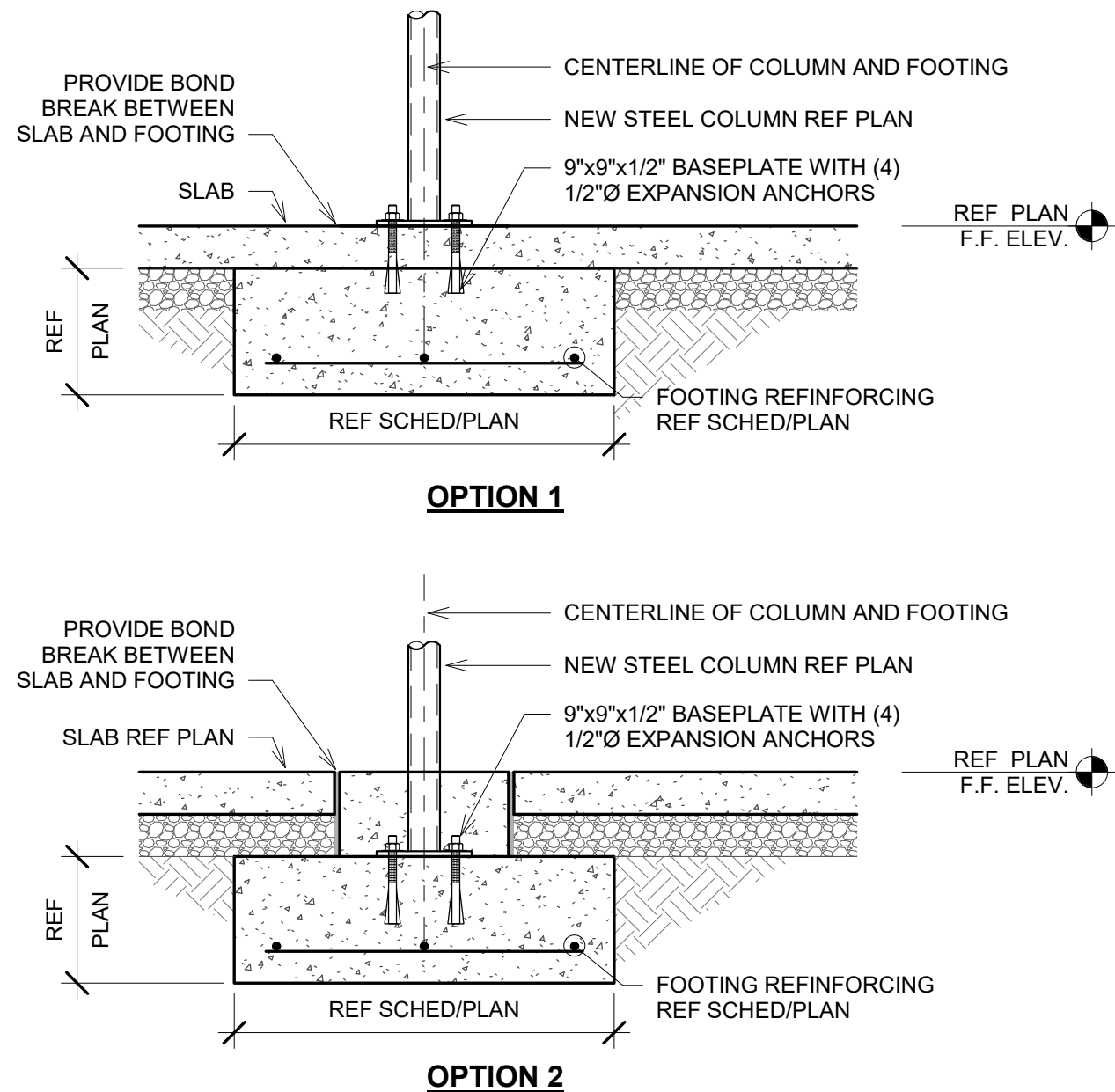
6 GARAGE WALL/SLAB SECTION  
SCALE: 3/4" = 1'-0"



3 STANDARD SLAB DETAILS  
SCALE: 3/4" = 1'-0"



2 TYP WALL AND GRADE BEAM DETAILS  
SCALE: 3/4" = 1'-0"



1 TYP COLUMN FOOTING  
SCALE: 3/4" = 1'-0"

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STATE OF MISSOURI  
BRANDON SCHWABAUER  
NUMBER PE-2015003020  
12/01/2020  
PROFESSIONAL ENGINEER

N&S JOB NUMBER: 2020-0255  
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**PROJECT INFORMATION**  
THE LEXINGTON II  
2529 SW River Trail Road  
Lee's Summit, Missouri 64082

ISSUES & REVISIONS		
#	DATE	DESCRIPTION
1	11/16/2020	PERMIT

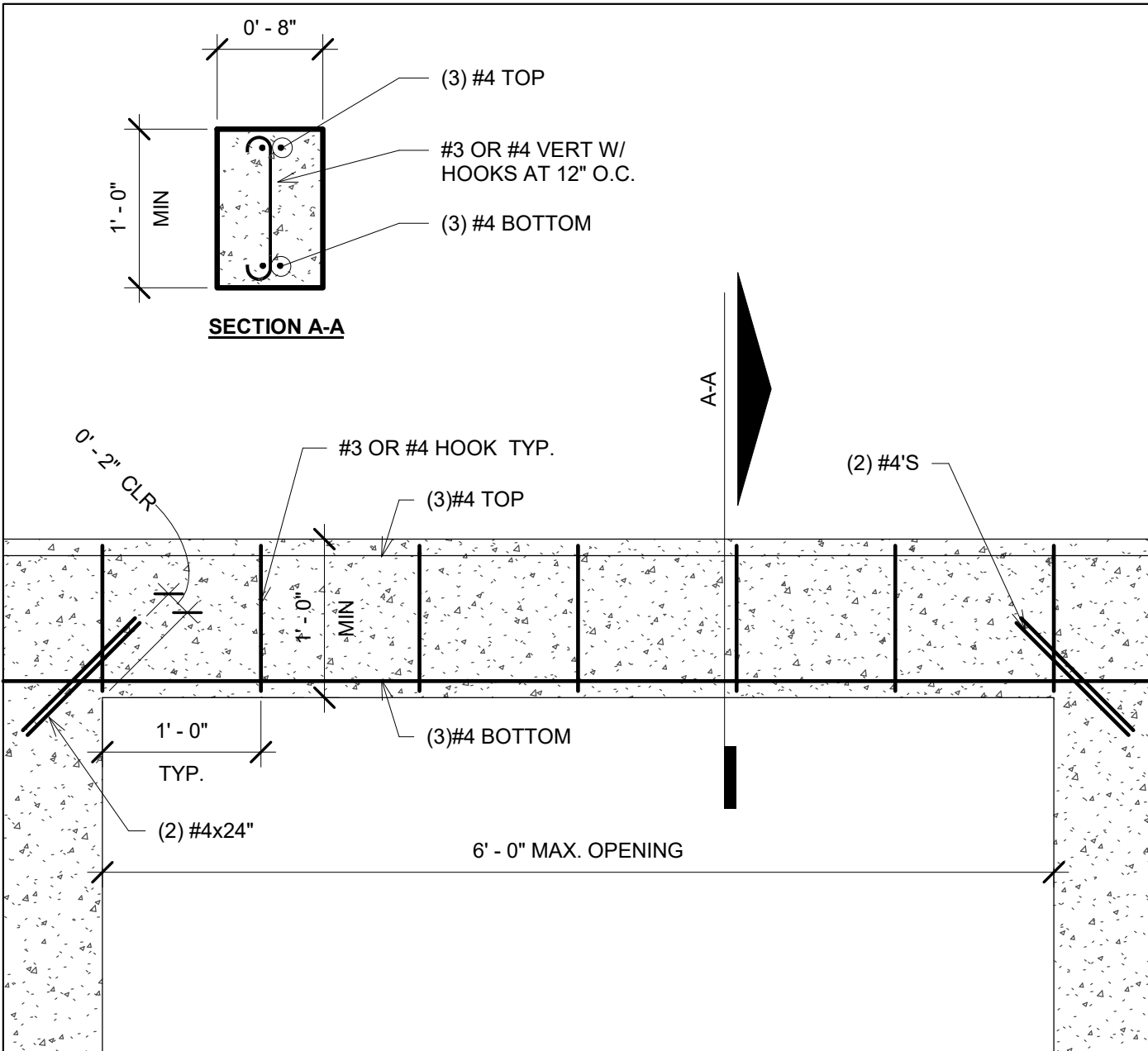
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CHECKED BY: BSS  
ISSUED FOR:

**SHEET TITLE**  
DETAILS

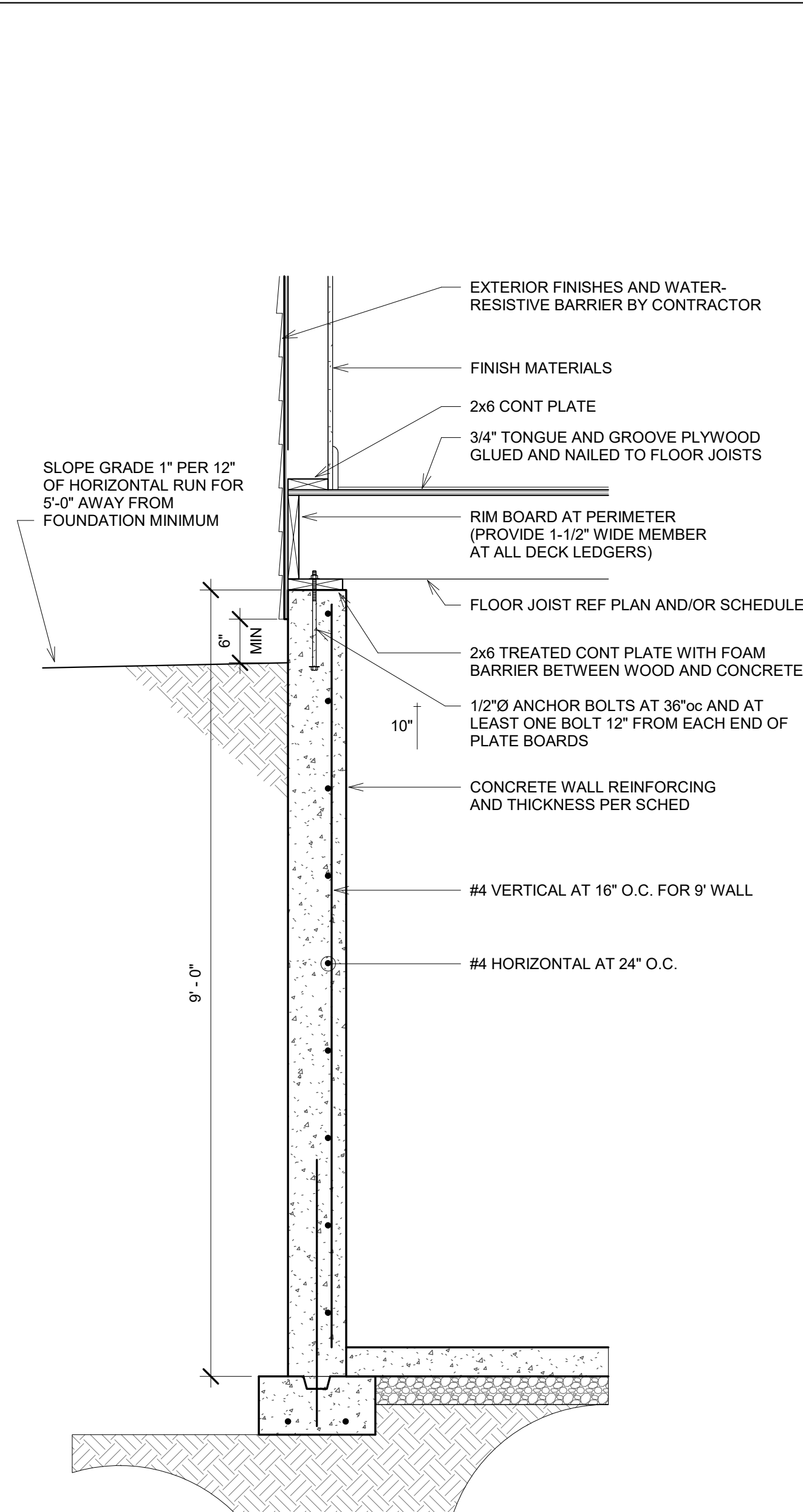
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S501

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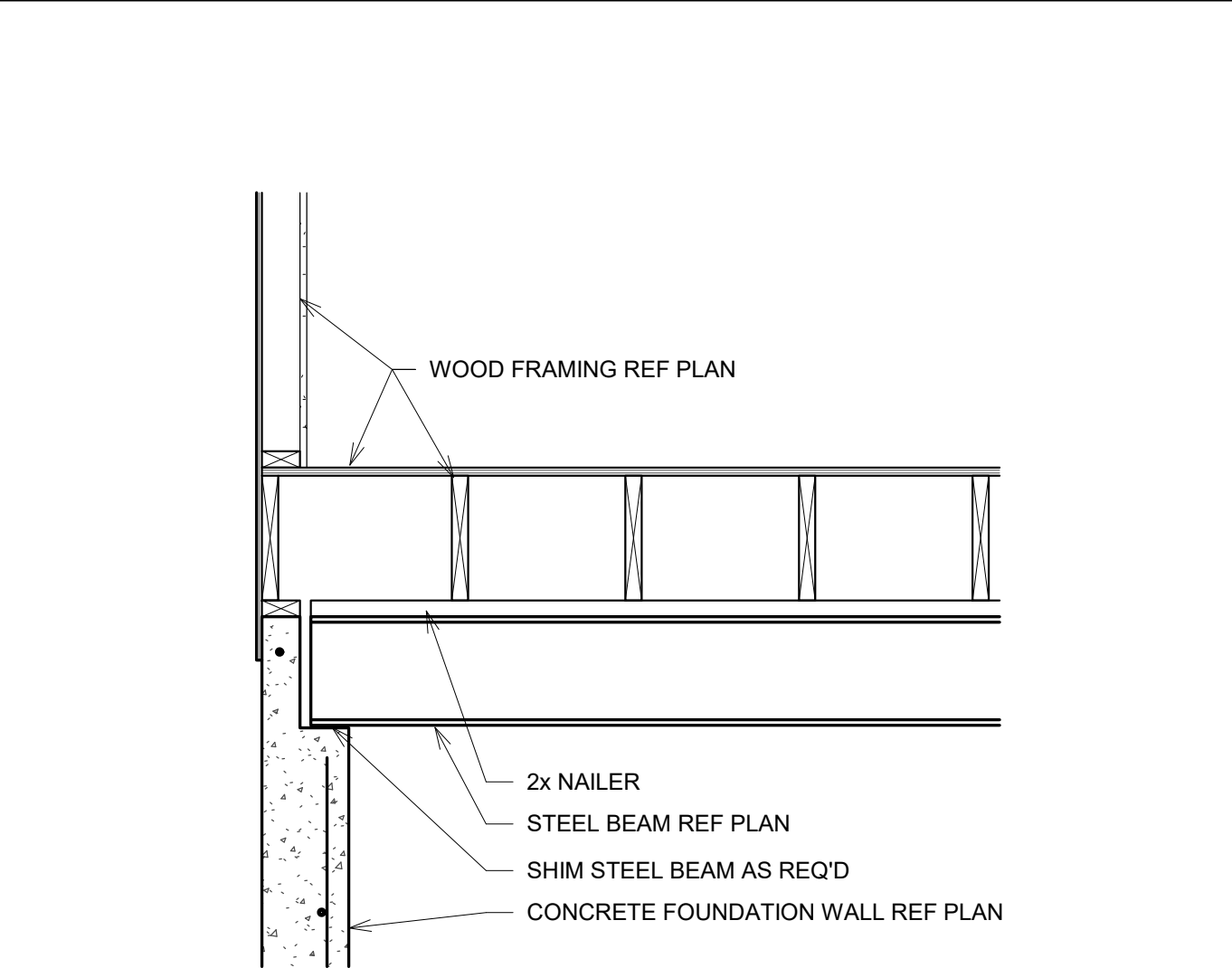
**12/03/2020**



## 5 BASEMENT HEADER DETAIL

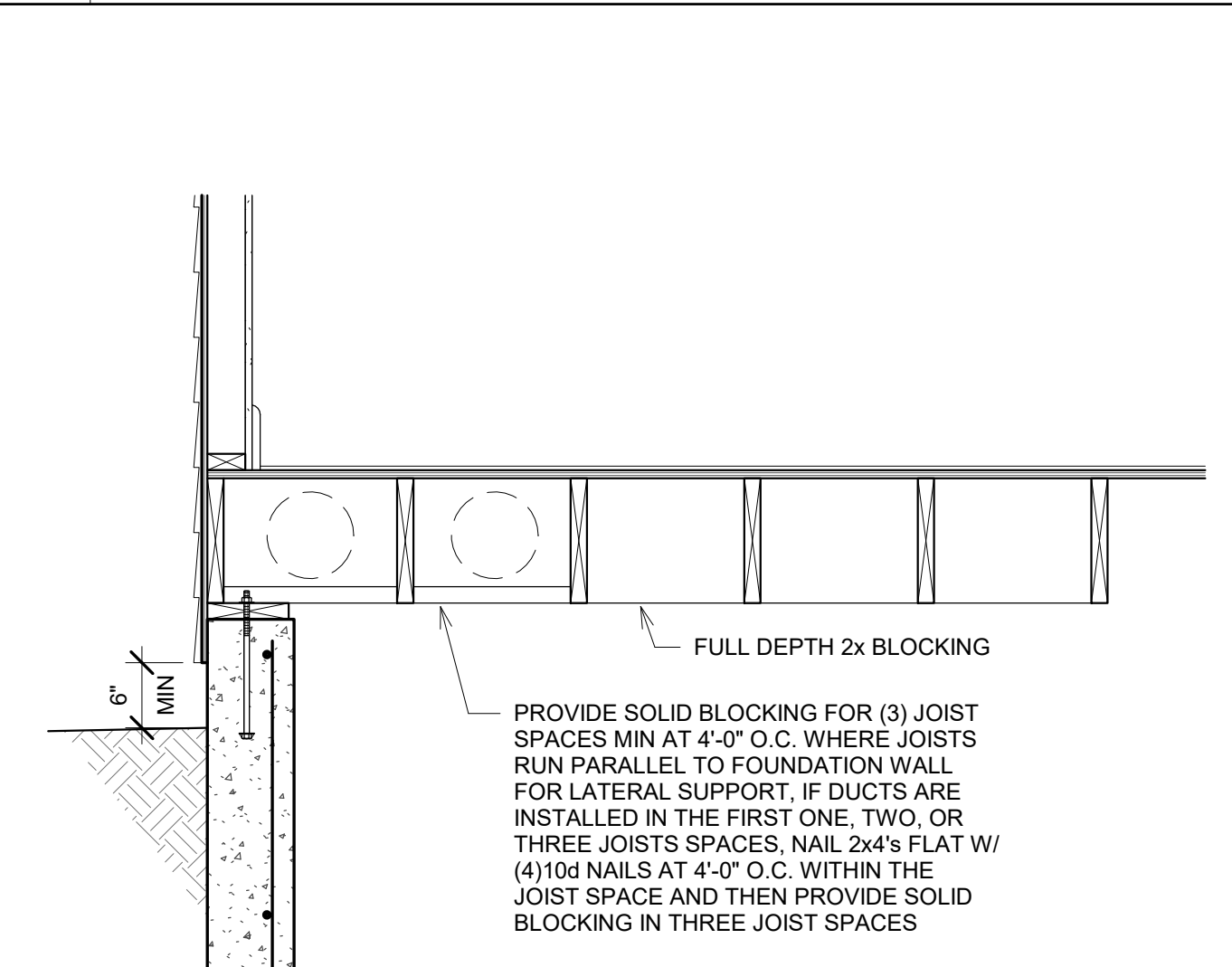


#### 4 FULL HEIGHT BASEMENT WALL SECTION



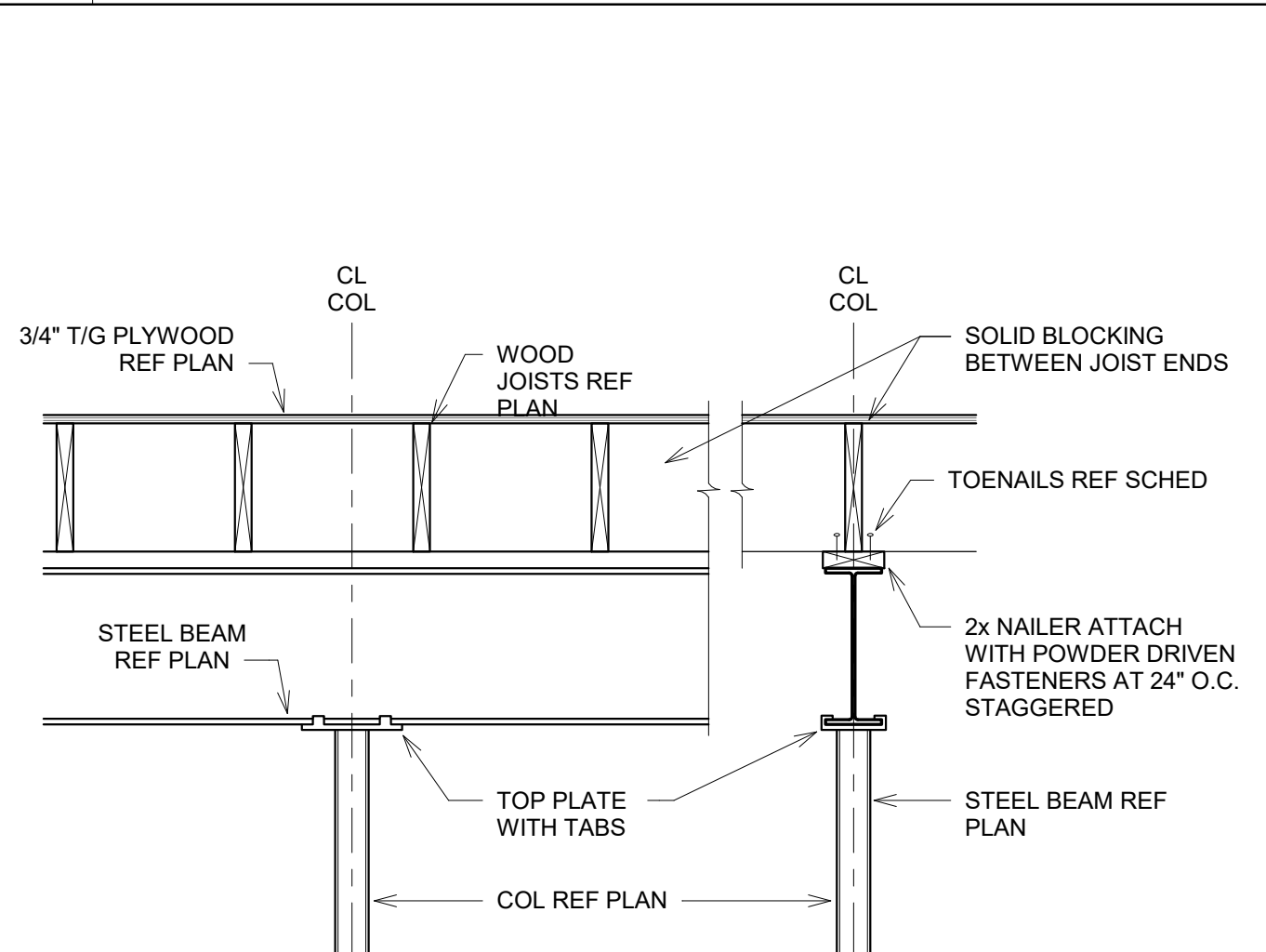
### 3 STL BEAM ON CONC FOUND WALL

SCALE: 3/4" = 1'-0"



## 2 JOISTS PARALLEL TO WALL

SCALE: 3/4" = 1'-0"




1 TYPICAL BEAM AT COLUMN  
SCALE: 3/4" = 1'-0"

**Norton & Schmidt**

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314 East 11th Avenue  
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PROJECT INFORMATION

THE LEXINGTON II

2529 SW River Trail Road  
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DETAILS

SHEET NUMBER
S502







RAFTER SLOPE	RAFTER SPACING	GROUND SNOW LOAD (PSF)											
		30				50				70			
		ROOF SPAN (FEET)											
		12	20	28	36	12	20	28	36	12	20	28	36
		REQUIRED NUMBER OF 16d COMMON NAILS(a,b) PER HEEL JOINT SPLICES (c,d,e,f)											
3:12	12 16 24	4 5 7	6 8 11	8 11 16	11 14 21	5 6 8	8 11 16	12 15 20	15 18 23	6 8 12	11 14 21	15 18 23	20 26 39
4:12	12 16 24	3 4 5	5 6 9	6 8 12	8 11 16	5 6 7	6 8 12	9 12 17	11 15 22	5 6 9	8 11 16	12 15 23	15 18 29
5:12	12 16 24	3 3 4	4 5 7	5 7 10	7 9 13	3 4 6	3 5 7	4 7 10	5 9 14	7 9 13	9 12 18	12 16 23	15 19 26
7:12	12 16 24	3 3 3	3 4 5	4 5 7	5 6 9	3 3 4	3 4 5	4 5 7	5 7 10	7 9 13	3 5 9	5 6 13	7 9 17
9:12	12 16 24	3 3 3	3 3 4	3 4 6	4 5 7	3 3 3	3 4 6	3 5 8	4 7 10	3 5 7	4 5 10	5 7 13	7 9 13
12:12	12 16 24	3 3 3	3 3 3	3 3 4	3 3 6	3 3 3	3 4 6	3 5 8	4 5 9	3 3 6	4 5 8	5 7 10	7 9 13

- | Hc/Hr        | HEEL JOINT CONNECTION<br>ADJUSTMENT FACTOR |
|--------------|--|
| 1/3          | 1.5  |
| 1/4          | 1.33                                       |
| 1/5          | 1.25                                       |
| 1/6          | 1.2  |
| 1/10 OR LESS | 1.11                                       |

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LEE'S SUMMIT, MISSOURI**

**12/03/2020**

GRADE	MEMBER SIZE / SPACING	MAX SPAN CEILING JSTS AT TOP PLATE	MAX SPAN $H \leq 0.16$	MAX SPAN $H \leq 0.20$	MAX SPAN $H \leq 0.25$	MAX SPAN $H \leq 0.33$
#2 DF/L	2x8 / 16"oc	14'-1"	12'-8"	11'-8"	10'-8"	9'-5"
#2 DF/L	2x8 / 16"oc	18'-2"	15'-11"	13'-9"	12'-2"	
#2 DF/L	2x10 / 16"oc	22'-3"	20'-0"	18'-5"	16'-10"	14'-10"
#2 DF/L	2x12 / 16"oc	25'-9"	23'-2"	21'-4"	19'-7"	17'-3"

THE ROOF FRAMING ON THIS HOME UTILIZES RAFTERS SPACED AT 16" ON CENTER IN EXPOSURE B WITH A ROOF SPAN LESS THAN 42' ON IN 90 MPH WIND ZONE. THEREFORE THE UPLIFT FORCE ON THE RAFTER IS LESS THAN 200 LBS. AND CAN BE CONNECTED PER TO THE WALL FRAMING PER TABLE 602.3(1) (ON SHEET 6.0).

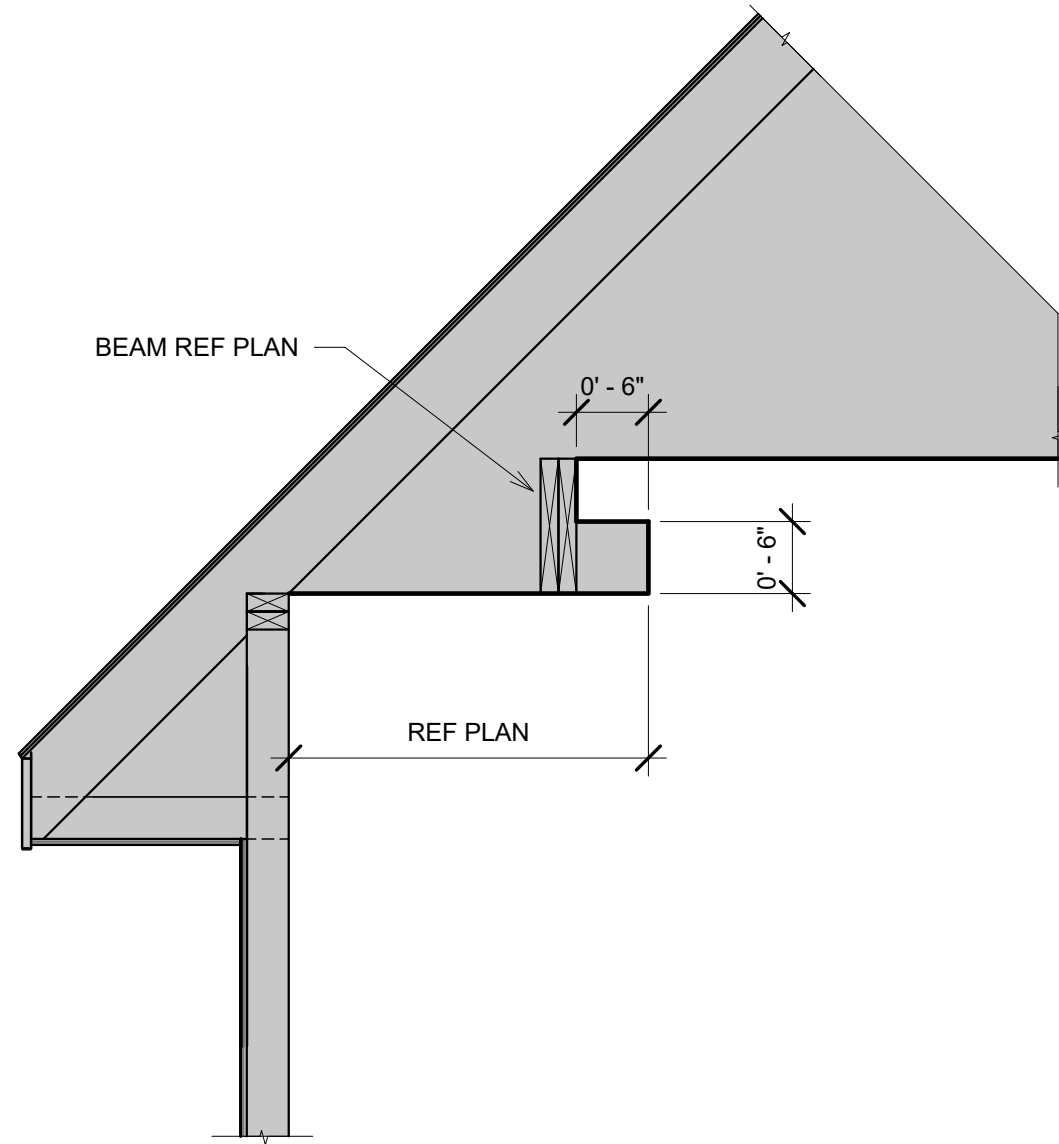
Diagram illustrating the components of a roof structure, including labels and references:

- RAFTER SPANS, SEE TABLES R802.5.1(1) THROUGH R802.5.1(8)**
- CEILING JOIST LAP, RE: SECT. R802.3.2**
- PURLIN & PURLIN BRACE, RE: SECT. R802.5.1**
- CEILING JOISTS, RE: TABLES R802.4(1) & R802.4(2)**
- TOP PLATE(S), RE: SECT. R802.3.2**
- BEARING WALL**
- BEARING PARTITION, RE: R802.5.1**
- RAFTER TO JOIST CONN., RE: SECT. R802.3.1**
- RAISED RAFTER TIE, RE: SECT. R802.3.1. SEE RAFTER SPAN TABLES R802.5.1(1) THRU R802.5.1(8) FOR ADJUSTED RAFTER SPANS ( $H_{eff} = 1/3 \text{ MAX.}$ )**
- COLLAR TIE OR RIDGE STRAP, RE: SECT. R802.3.1**
- RIDGE BOARD/BEAM, RE: SECT's R802.3 & R802.3.1**

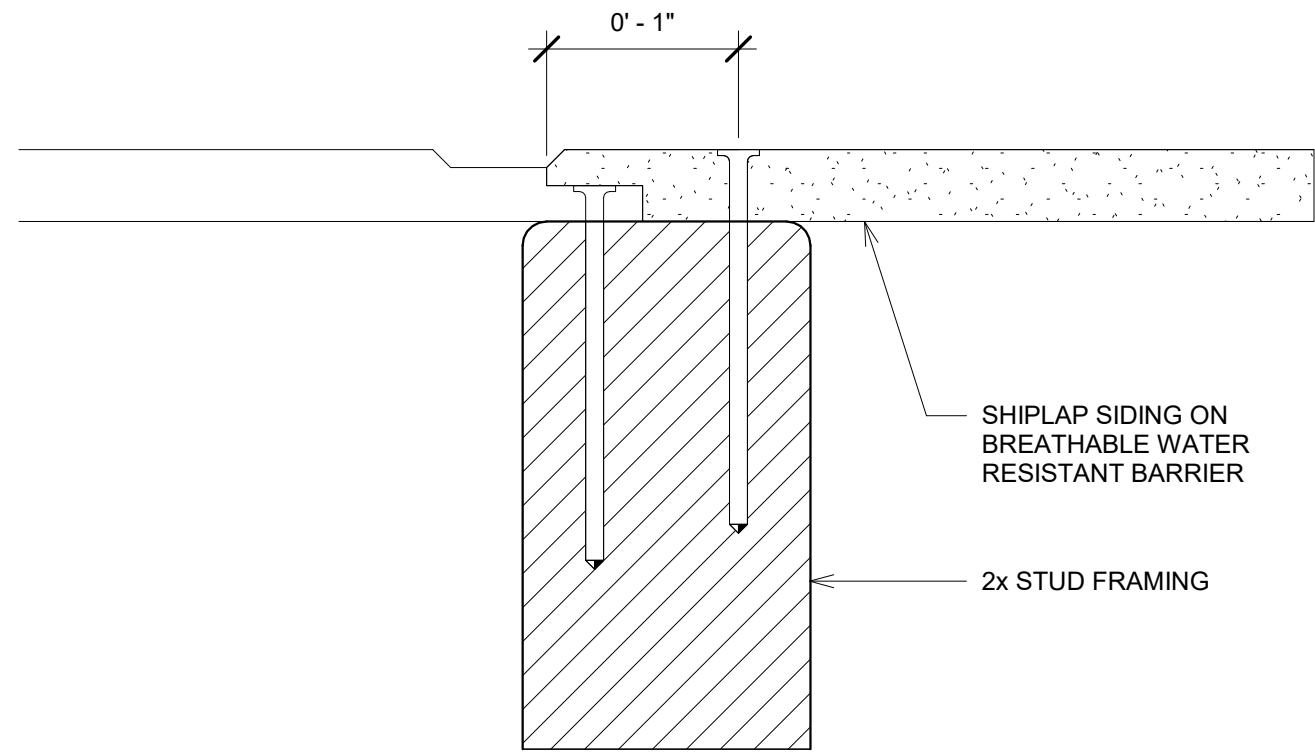
Description of Building Elements		Number & Type of Fastener (a,b,c)	Spacing of Fasteners
<b>Roof</b>			
Blocking between joists or rafters to top plate, toe nail	3 - 8d (2 1/2" x 0.113")		
Ceiling joists to plate, toe nail	3 - 8d (2 1/2" x 0.113")		
Ceiling joist not attached to parallel rafter, laps over partitions, face nail	3 - 10d (3" x 0.128")		
Collar tie to rafter, face nail, or 1 1/4" x 20 gage ridge strap	3 - 10d (3" x 0.128")		
Rafter or roof truss to plate, toe nail	3 - 16d box nails (3 1/2" x 0.135") or 3 - 10d common nails (3" x 0.148")	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss	
Roof rafters to ridge, valley or hip rafters: toe nail face nail	4 - 16d (3 1/2" x 0.135") 3 - 16d (3 1/2" x 0.135")		
<b>Wall</b>			
Built-up studs	10d (3" x 0.128")		24" o.c.
Abutting studs at intersecting wall corners, face nail	16d (3 1/2" x 0.135")		12" o.c.
Built up header, two pieces with 1/2" spacer	16d (3 1/2" x 0.135")		16" o.c. along ea. edge
Continued header, two pieces	16d (3 1/2" x 0.135")		16" o.c. along ea. edge
Continuous header to stud, toe nail	4 - 8d (2 1/2" x 0.113")		
Double studs, face nail	10d (3" x 0.128")		24" o.c.
Double top plates, face nail	10d (3" x 0.128")		24" o.c.
Double top plates, minimum 24" offset of end joints, face nail in lapped area	8 - 16d (3 1/2" x 0.135")		
Sole plate to joist or blocking, face nail	16d (3 1/2" x 0.135")		16" o.c.
Sole plate to joist or blocking at braced wall panels	3 - 16d (3 1/2" x 0.135")		16" o.c.
Stud to sole plate, toe nail	3 - 8d (2 1/2" x 0.113") or 2 - 16d (3 1/2" x 0.135")		
Top or sole plate to stud, end nail	2 - 16d (3 1/2" x 0.135")		
Top plates, laps at corners and intersections, face nail	2 - 10d (3" x 0.128")		
1" brace to each stud and plate, face nail	2 - 8d (2 1/2" x 0.113") 2 staples, 1 1/2"		
1" x 6" sheathing to each bearing, face nail	2 - 8d (2 1/2" x 0.113") 2 staples, 1 1/2"		
1" x 8" sheathing to each bearing, face nail	2 - 8d (2 1/2" x 0.113") 3 staples, 1 1/2"		
Wider than 1" x 8" sheathing to each bearing, face nail	3 - 8d (2 1/2" x 0.113") 4 staples, 1 1/2"		
<b>Floor</b>			
Joist to sill or girder, toe nail	3 - 8d (2 1/2" x 0.113")		
Rim joist to top plate, toe nail (roof applications also)	8d (2 1/2" x 0.113")		6" o.c.
Rim joist or blocking to sill plate, toe nail	8d (2 1/2" x 0.113")		6" o.c.
1" X 6" subfloor or less to each joist, face nail	2 - 8d (2 1/2" x 0.113") 2 staples, 1 1/2"		
2" subfloor to joist or girder, blind & face nail	2 - 16d (3 1/2" x 0.135")		
2" planks (plan & beam - floor & roof)	2 - 16d (3 1/2" x 0.135")		At each bearing

(Continued)

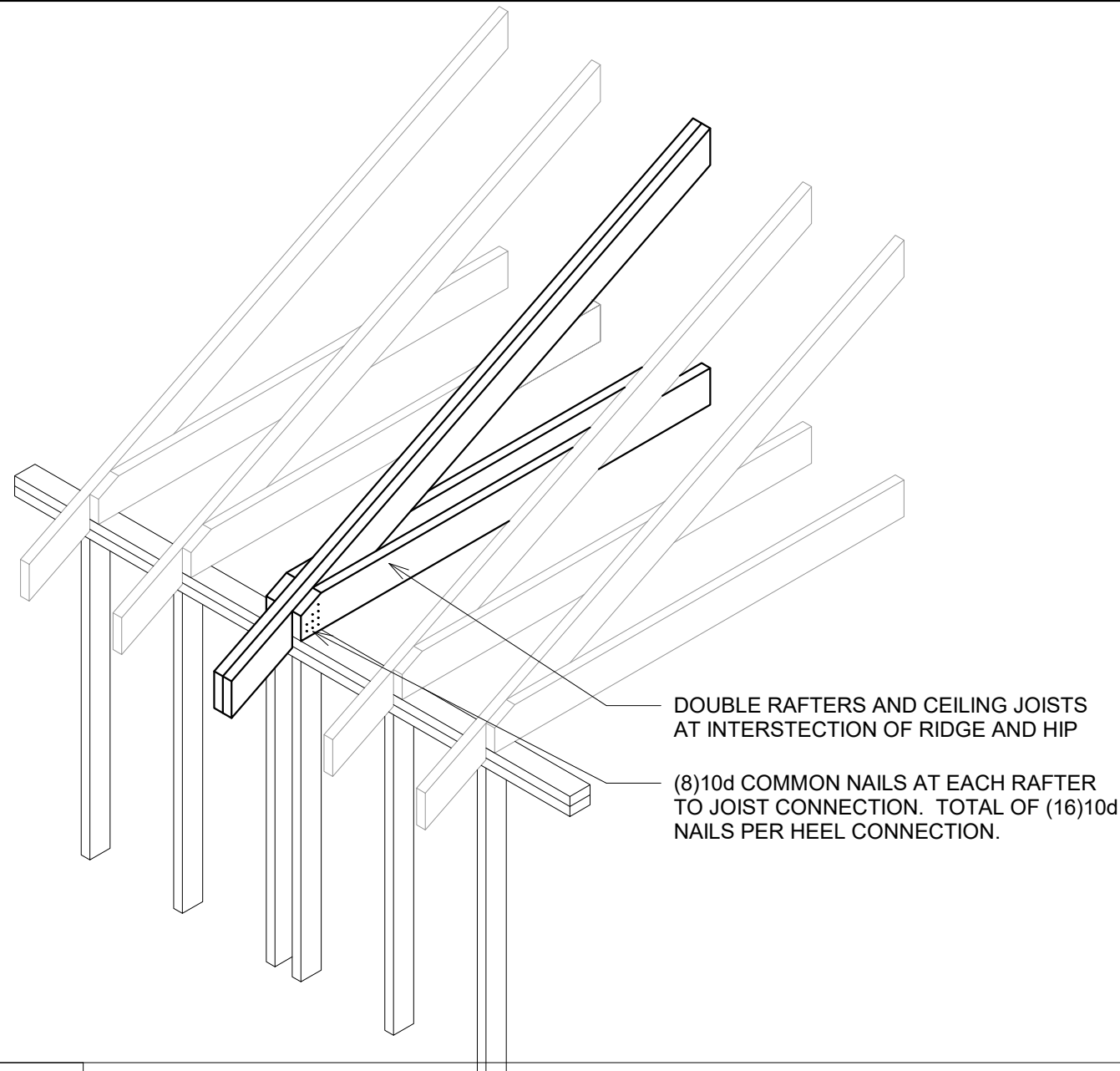
Description of Building Elements		Number & Type of Fastener (a,b,c)	Spacing of Fasteners	
Floor (Continued)				
Built-up girders and beams, 2-inch lumber layers		10d (3" x 0.128")	Nail ea. layer as follows: 32" o.c. at top & bott. & staggered. Two nails at ends and at ea. splice	
Ledger strip supporting joists or rafters		3 - 16d (3 1/2" x 0.135")	At each joist or rafter	
Description of Building Materials	Description of Fastener (b,c,e)	Spacing of Fasteners		
		Edges (i)	Intermediate Supports (c,e)	
Wood Structural Panels, subfloor, roof and wall sheathing to framing, and particleboard wall sheathing to framing				
3/4" - 1"	8d common (2"x0.113") nail (subfloor, wall)(i) 8d common (2 1/2" x 0.131") nail (roof)(f)	6"	12" (g)	
1 1/2" - 1"	8d common (2 1/2" x 0.131") nail (f)	6"	12" (g)	
1 1/8" - 1 1/4"	10d common (3" x 0.148") nail or 8d (2 1/2" x 0.131") deformed nail	6"	12"	
Other wall sheathing (h)				
1/2" structural cellulose fiberboard sheathing	1 1/2" galvanized roofing nail 8d common (2 1/2" x 0.131") nail; staple 16 ga., 1 1/2" long	3"	6"	
2 1/2" structural cellulose fiberboard sheathing	1 3/4" " galvanized roofing nail 8d common (2 1/2" x 0.131") nail; staple 16 ga., 1" long	3" 1/2	6"	
1/2" gypsum sheathing (d)	1 1/2" galvanized roofing nail; staple galvanized, 1 1/2" long; 1 1/4" screws, Type W or S	7"	7"	
5/8" gypsum sheathing (d)	1 3/4" galvanized roofing nail; staple galvanized, 1 1/2" long; 1 1/4" screws, Type W or S	7"	7"	
Wood structural panels, combination subfloor underlayment to framing				
3/4" or less	6d deformed (2" x 0.120") nail or 8d common (2 1/2" x 0.131") nail	6"	12"	
3/8" - 1"	8d common (2 1/2" x 0.131") nail or 8d deformed (2 1/2" x 0.120") nail	6"	12"	
1 1/8" - 1 1/4"	10d common (3" x 0.148") nail or 8d deformed (2 1/2" x 0.120") nail	6"	12"	
<p>a. All nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80 ksi for shank diameter of 0.192 inch (20d common nail), 90 ksi for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi for shank diameters of 0.142 inch or less.</p> <p>b. Staples are 16 gauge wire and have a minimum 7/16-inch on diameter crown width.</p> <p>c. Nails shall be spaced at not more than 6" on center at all supports where spans are 48 inches or greater.</p> <p>d. Four-foot-by-8-foot or 4-foot-by-9-foot panels shall be applied vertically.</p> <p>e. Spacing of fasteners not included in this table shall be based on Table R602.3(2).</p> <p>f. For regions having basic wind speed of 110 mph or greater, 8d deformed (2 1/2" x 0.120) nails shall be used for attaching plywood and wood structural panel roof sheathing to framing within minimum 48-inch distance from gable end walls, if mean roof height is more than 25 feet, up to 35 feet maximum.</p> <p>g. For regions having a basic wind speed of 100 mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing shall be spaced 6 inches on center. When basic wind speed is greater than 100 mph, nails for attaching panel roof sheathing to intermediate supports shall be spaced 6 inches on center for minimum 48-inch distance from ridges, eaves and gable end walls; and 4 inches on center to gable end wall framing.</p> <p>h. Gypsum sheathing shall conform to ASTM C 1396 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to ASTM C 208.</p> <p>i. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking and at all floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof or floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of this code. Floor perimeter shall be supported by framing members or solid blocking.</p> <p>j. Where a rafter is fastened to an adjacent panel ceiling joint in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joint to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.</p>				



SCALE: 3/4" = 1'-0"



SCALE: 12" = 1'-0"



SCALE: 3/4" = 1'-0"

## PROJECT INFORMATION

## THE LEXINGTON II

2529 SW River Trail Road  
Lee's Summit, Missouri 64082

[illegible]

SHEET TITLE

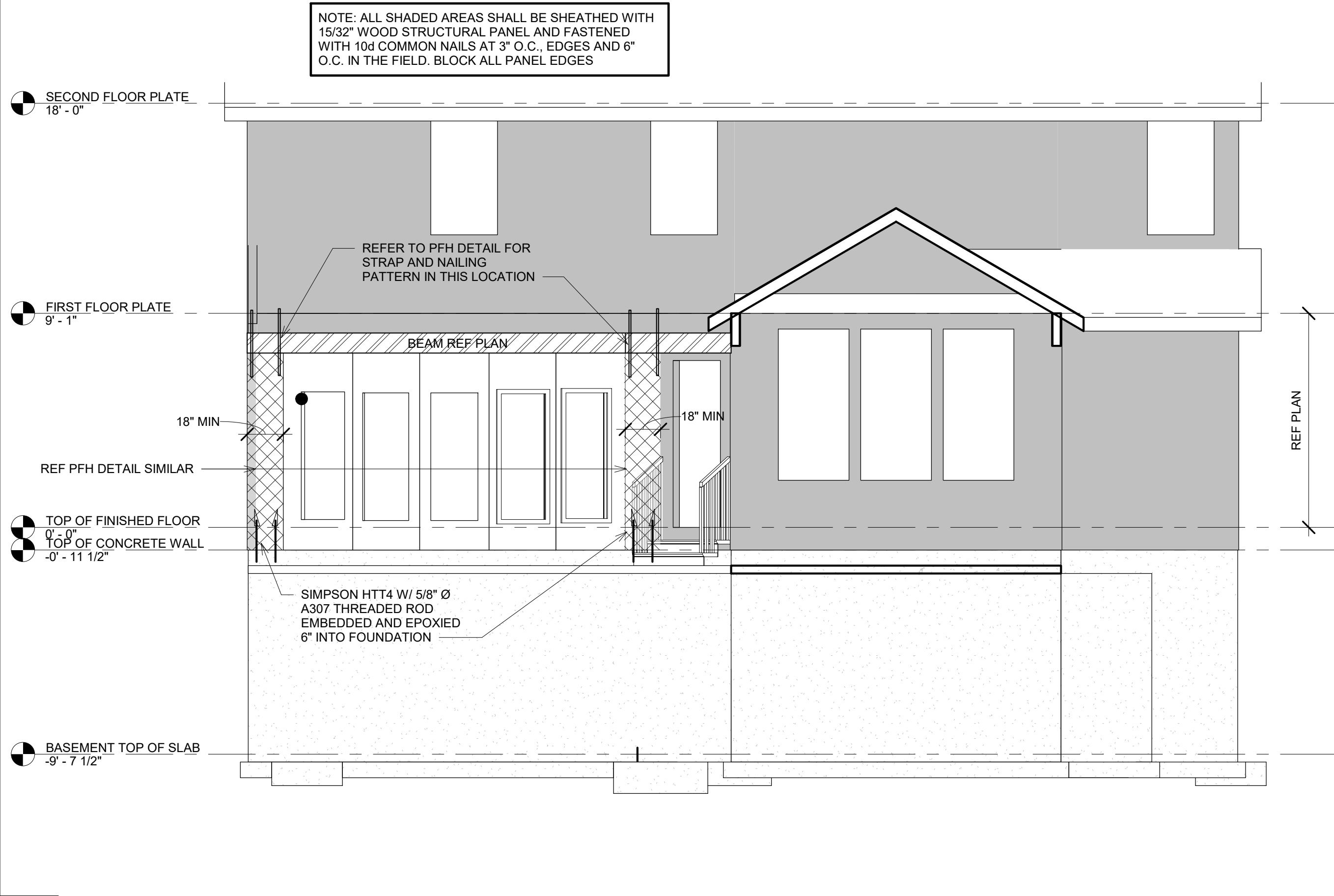
## DETAILS

SHEET NUMBER

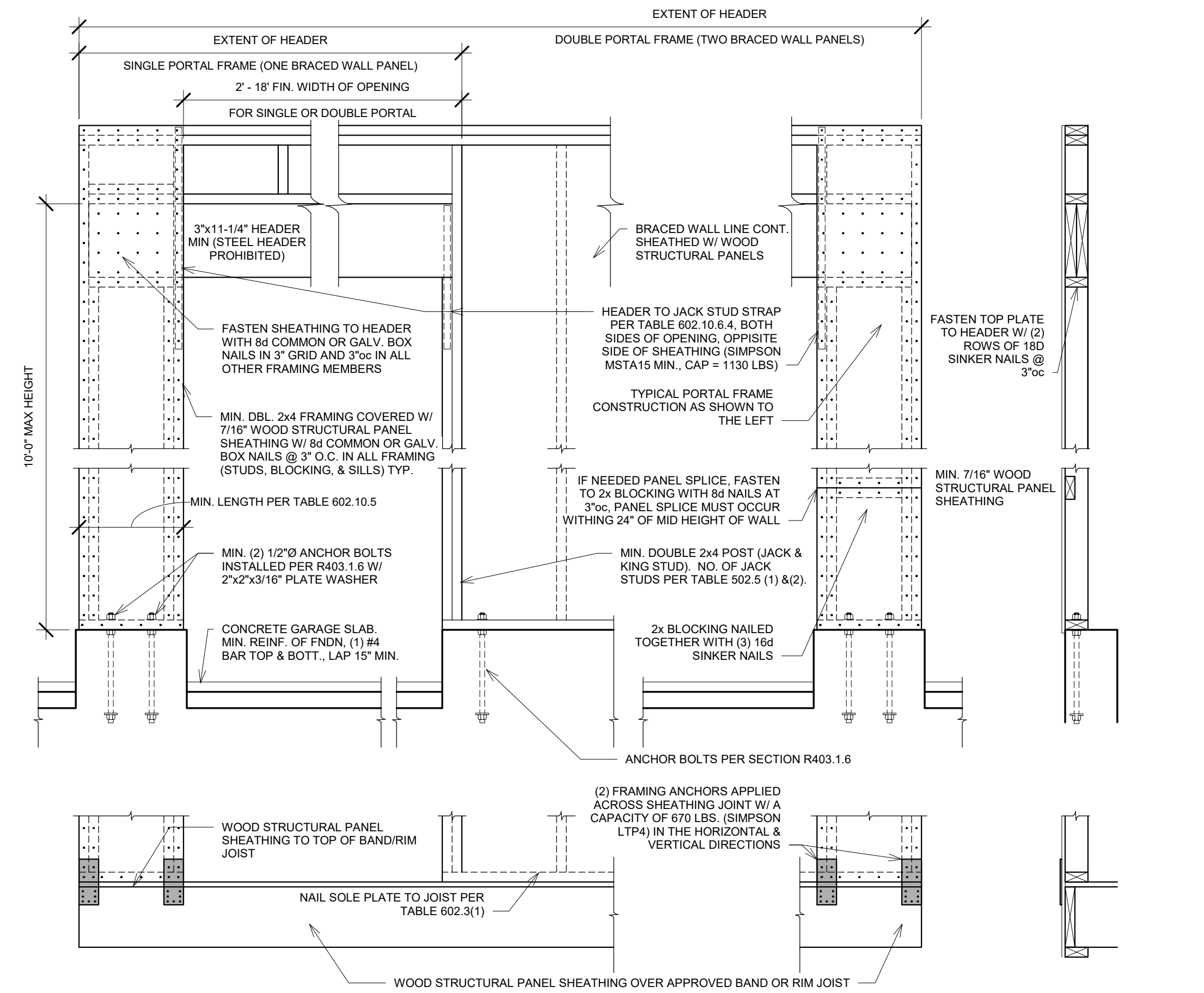
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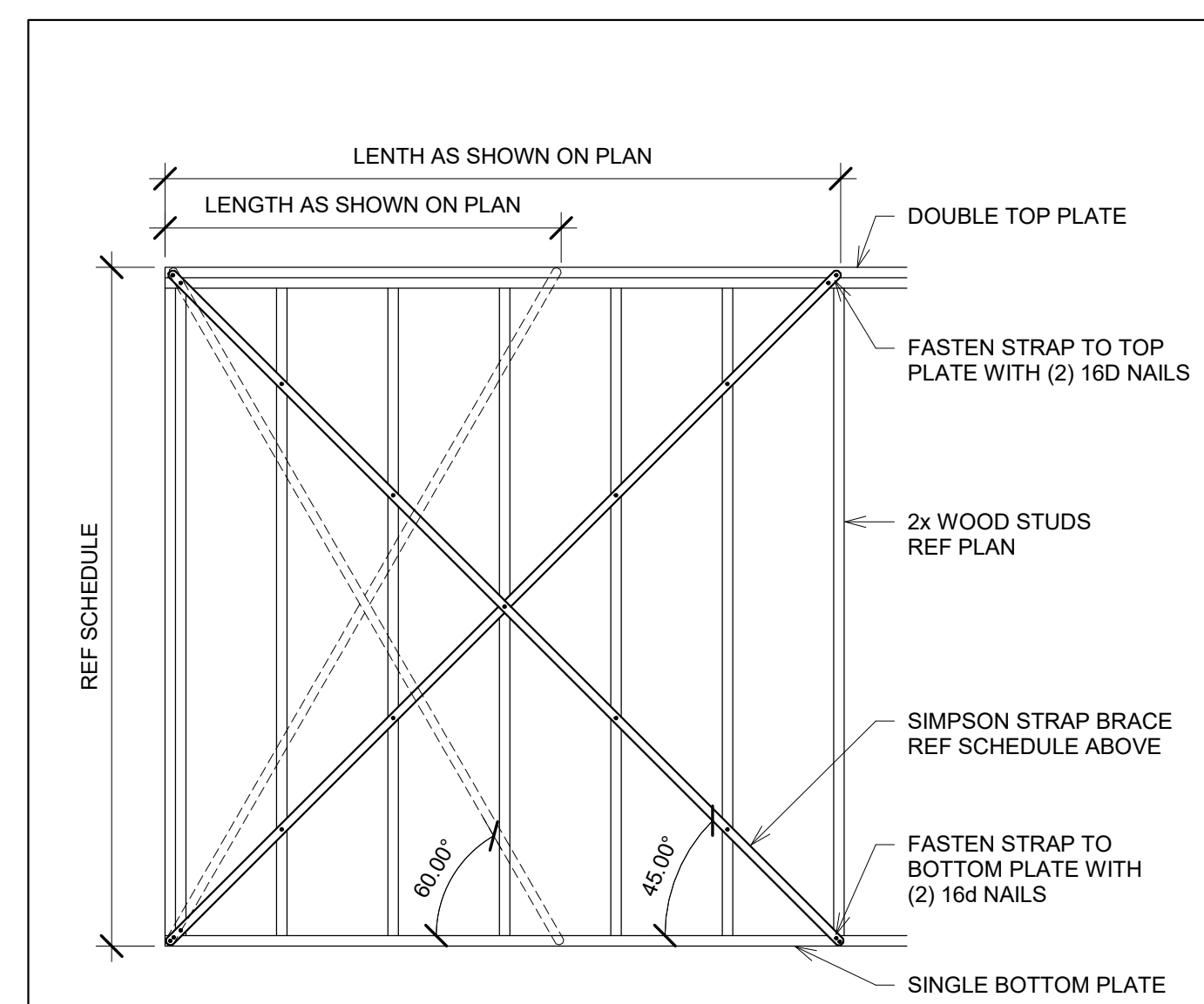
RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
12/03/2020



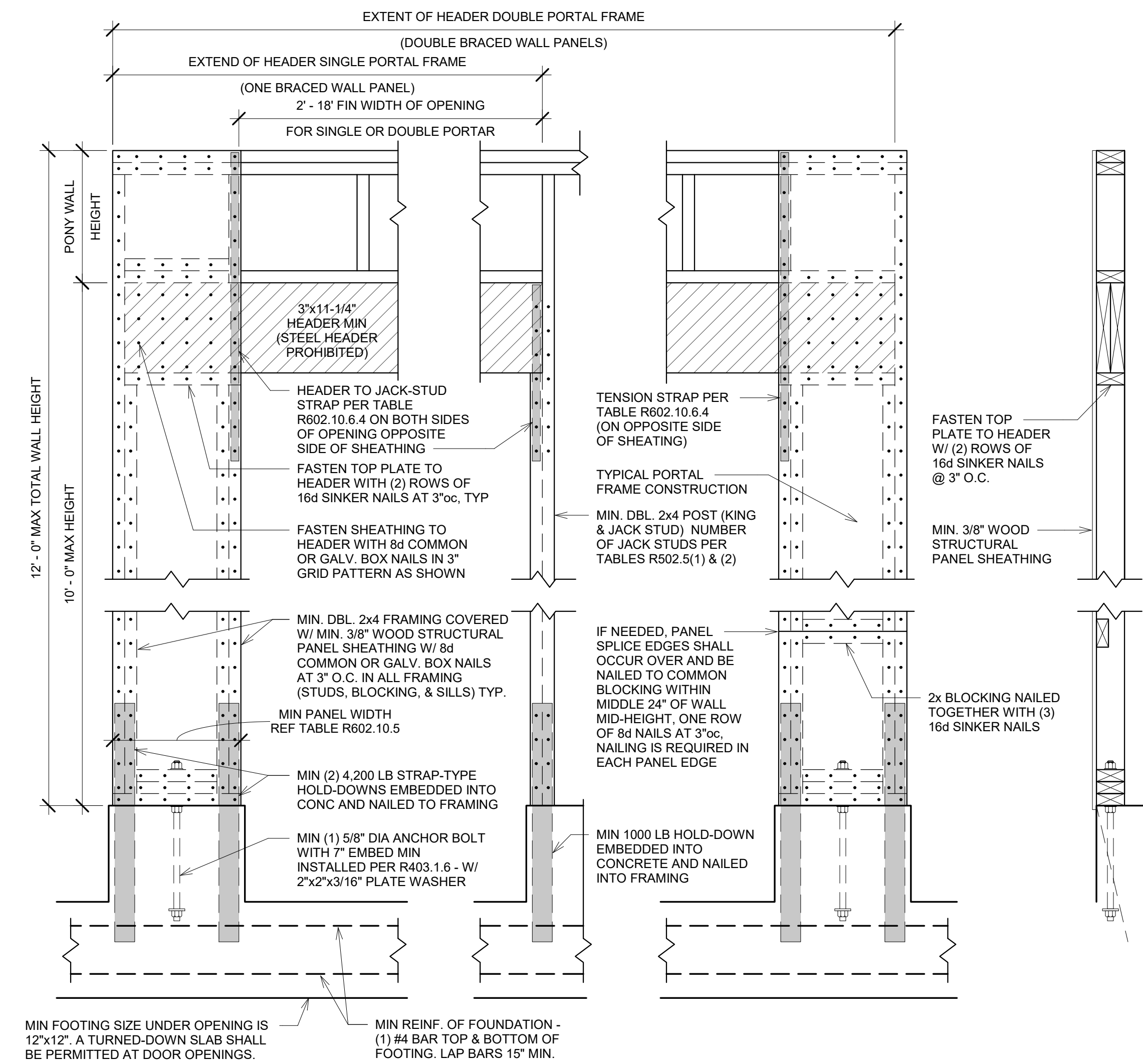
3 ENGINEERED WALL BRACING AT BACK ELEVATION  
SCALE: 1/4" = 1'-0"



2 METHOD CS-PF (R602.10.6.4)  
SCALE: 3/4" = 1'-0"



4 INTERIOR BRACED WALL (LIB)  
SCALE: 1" = 1'-0"



1 METHOD PFH (R602.10.6.2)  
SCALE: 1" = 1'-0"

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N&S JOB NUMBER: 2020-0255  
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STATE OF MISSOURI  
BRANDON SCHWABAUER  
PE-2015003020  
12/01/2020  
PROFESSIONAL ENGINEER

**PROJECT INFORMATION**

THE LEXINGTON II

2529 SW River Trail Road  
Lee's Summit, Missouri 64082

ISSUES & REVISIONS		
#	DATE	DESCRIPTION
1	11/16/2020	PERMIT

DRAWN BY: MLR  
CHECKED BY: BSS  
ISSUED FOR:

**SHEET TITLE**

DETAILS

**SHEET NUMBER**

S505