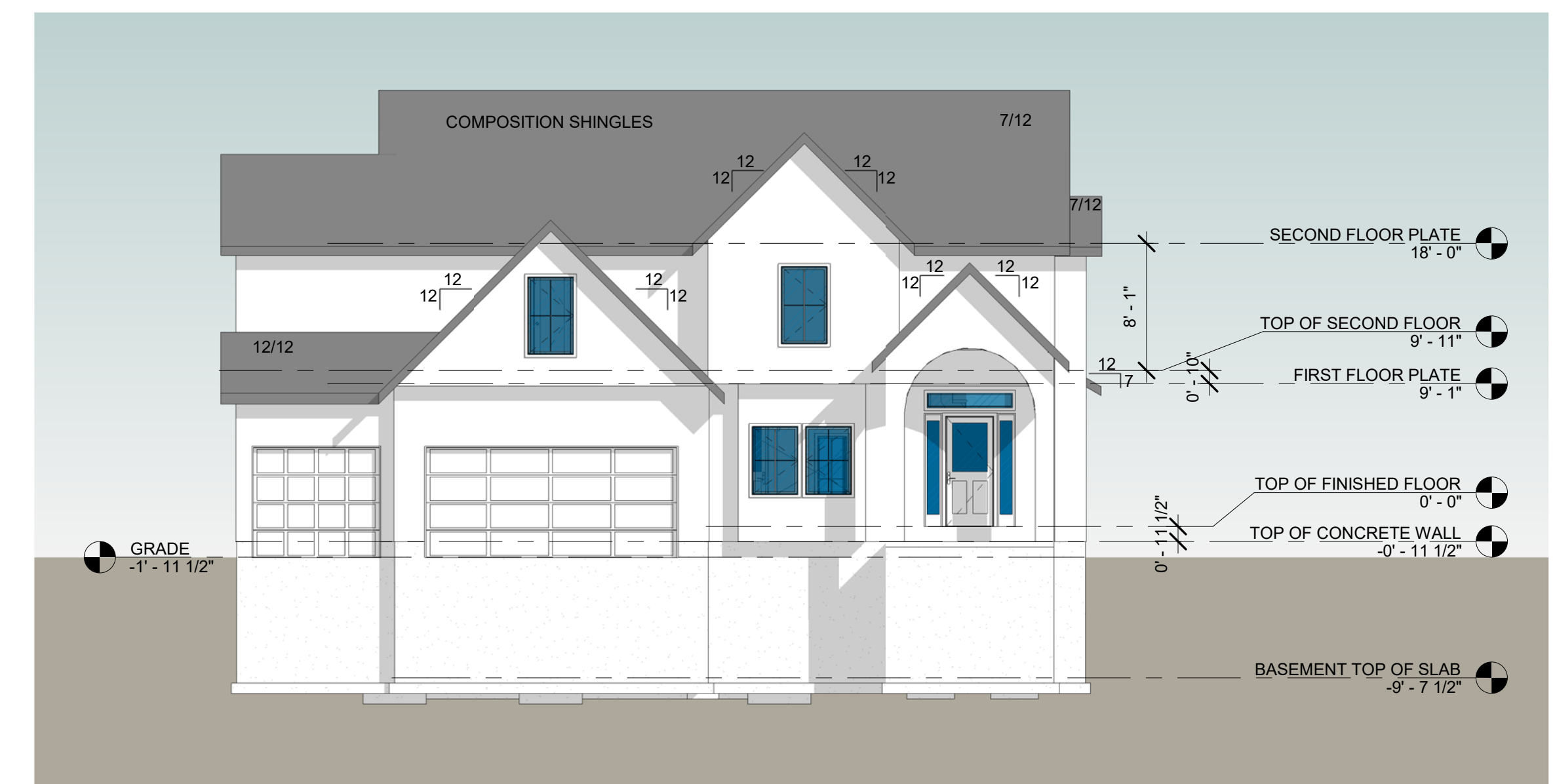
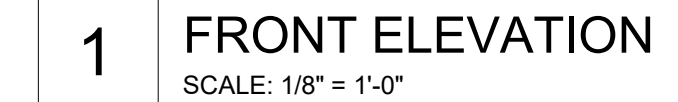
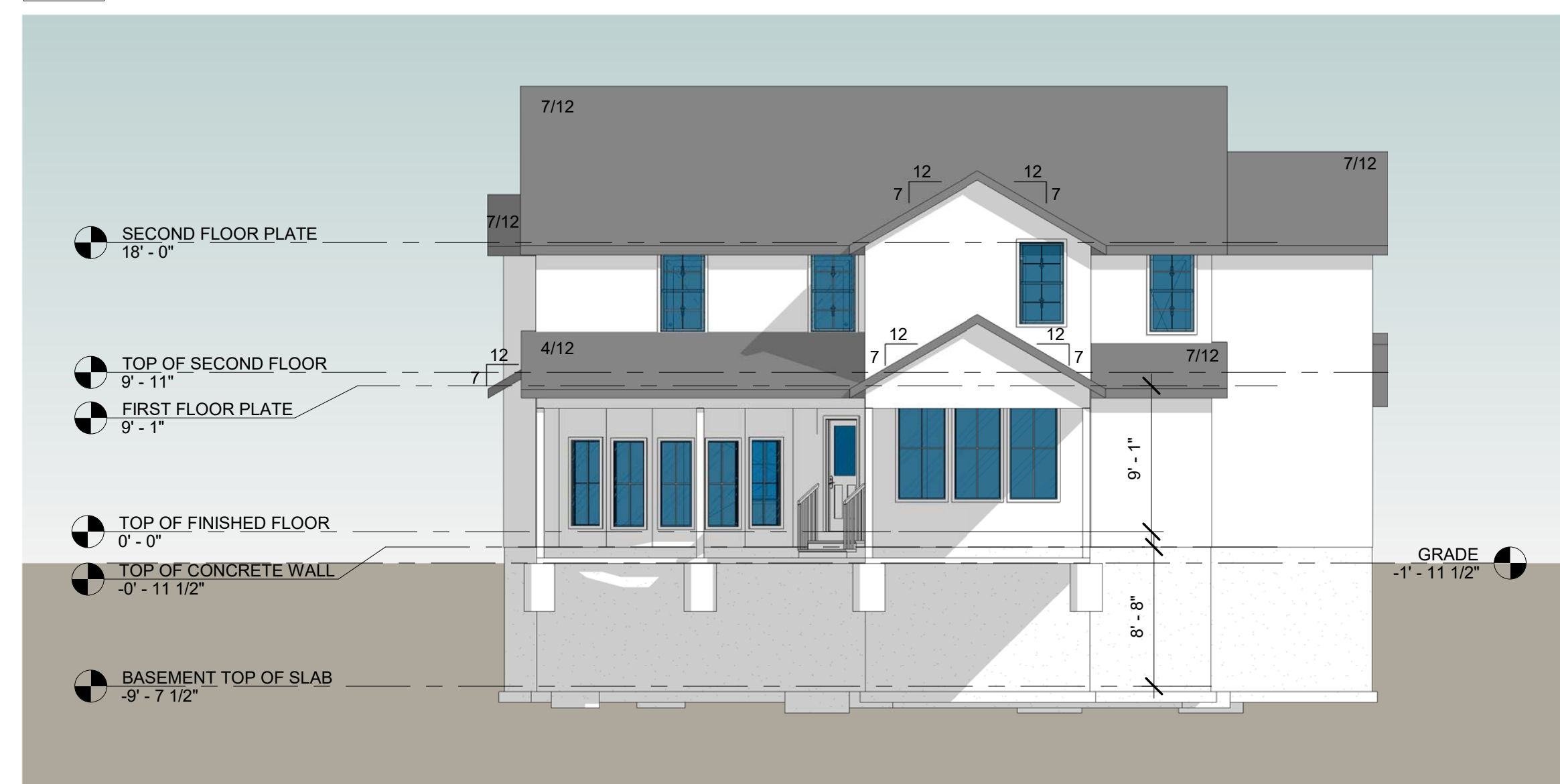
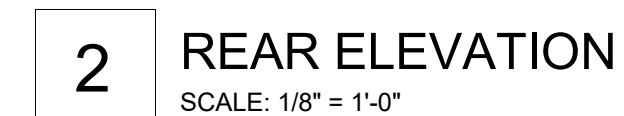


SHEET INDEX	
Sheet	Sheet Name
A100	COVER SHEET
S100	FOUNDATION PLAN
S101	FIRST FLOOR FRAMING PLAN
S102	SECOND FLOOR FRAMING PLAN
S103	ROOF FRAMING PLAN
S500	GENERAL NOTES
S501	DETAILS
S502	DETAILS
S503	DETAILS
S504	DETAILS
S505	DETAILS

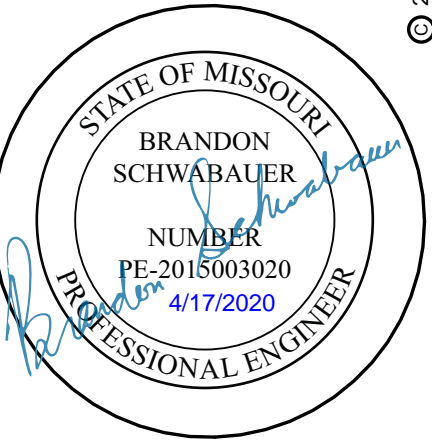
SQUARE FOOTAGES	
Name	Area
FIRST FLOOR	1217 SF
SECOND FLOOR	1634 SF
GARAGE	643 SF
UNFINISHED BASEMENT	1083 SF
	4577 SF



Norton &amp; Schmidt

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## PROJECT INFORMATION

THE LEXINGTON II

2521 SW River Trail Road  
Lee's Summit, Missouri

## ISSUES & REVISIONS

[illegible]

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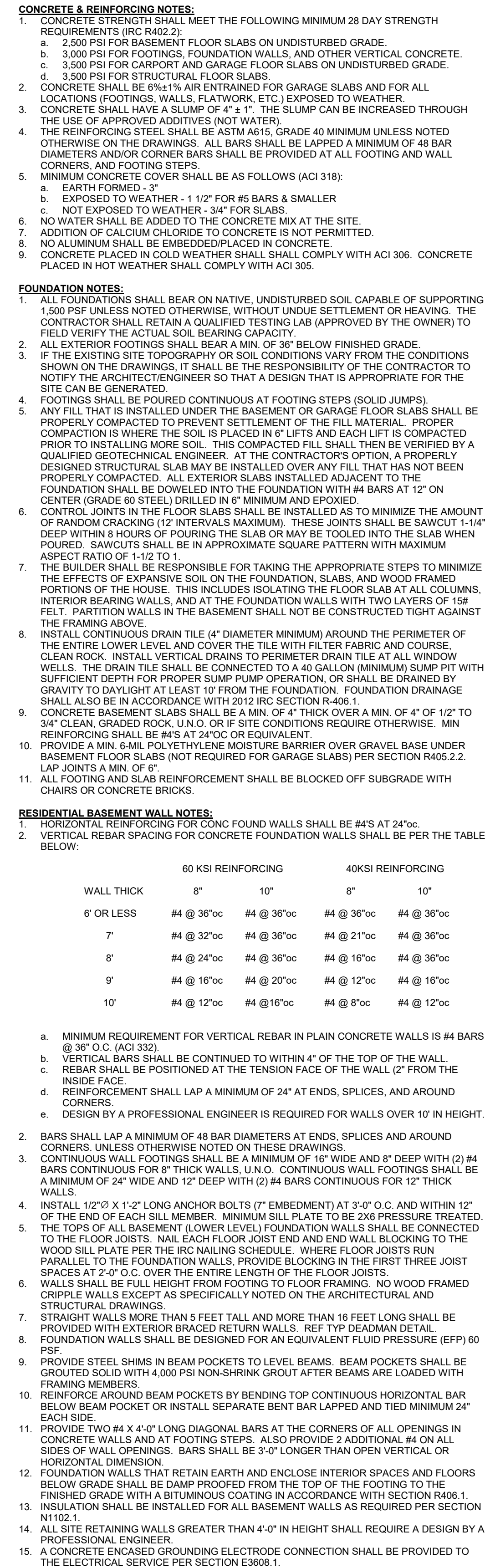
SHEET TITLE

COVER SHEET

SHEET NUMBER

# A100





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 EW BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN
F2	2'-6" x 2'-6" x 1'-0"	(4) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN
F3	3'-0" x 3'-0" x 1'-0"	(6) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN
F4	4'-0" x 4'-0" x 1'-4"	(8) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN

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

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

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## PROJECT INFORMATION

THE LEXINGTON II

521 SW River Trail Road  
Lee's Summit, Missouri

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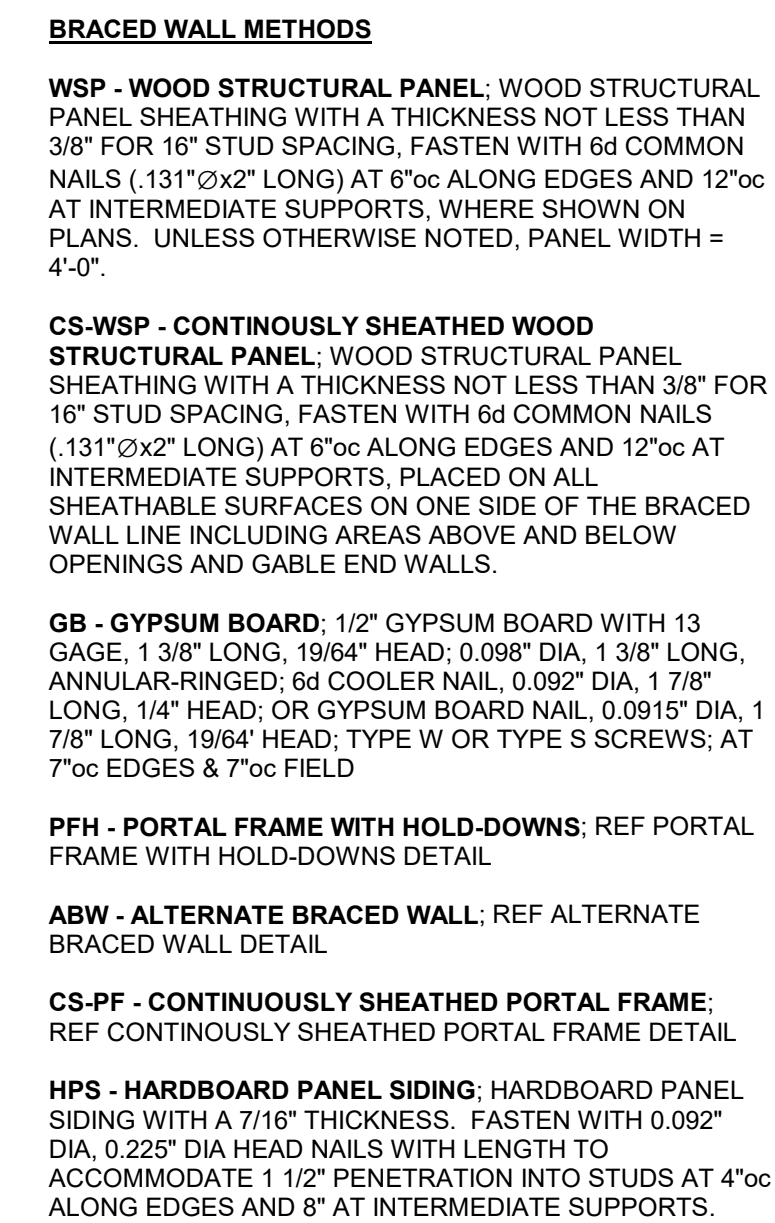
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## FOUNDATION PLAN

SHEET NUMBER

S100





**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.**

PROJECT INFORMATION

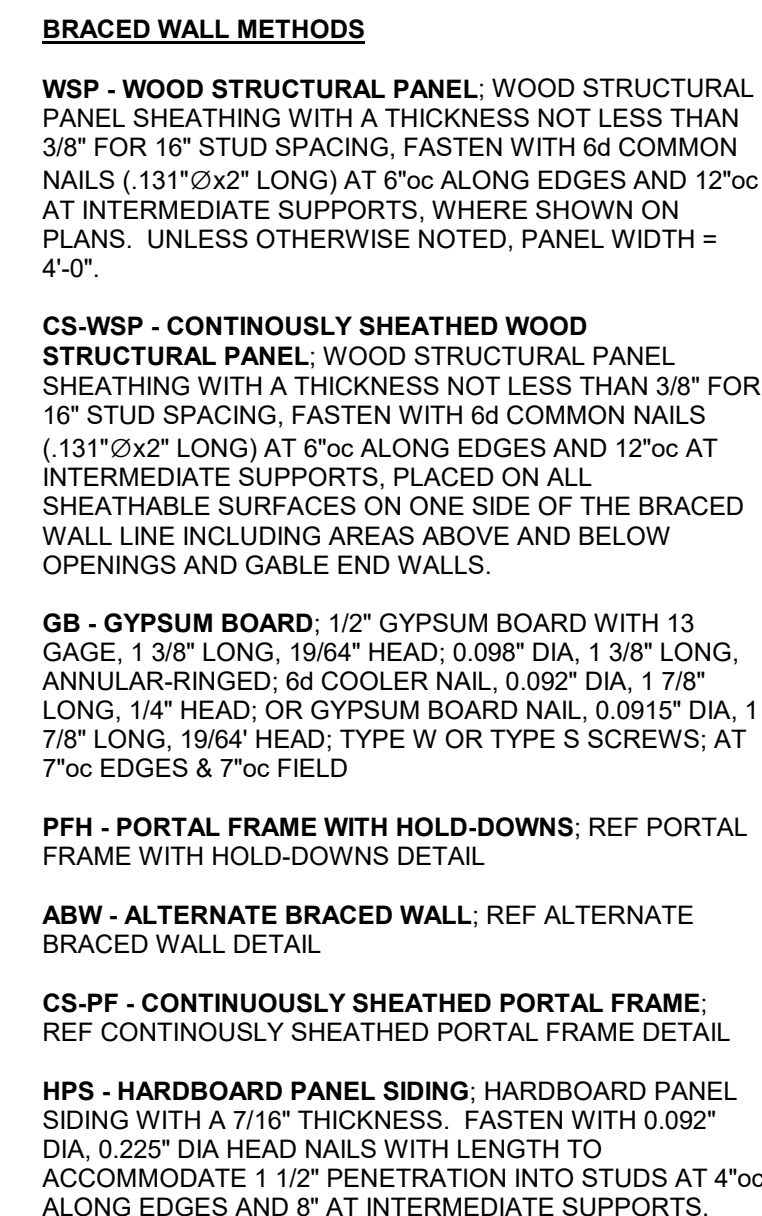
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S101

# 1 FIRST FLOOR FRAMING PLAN



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THE LEXINGTON II  
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## SECOND FLOOR FRAMING PLAN

SHEET NUMBER

S102

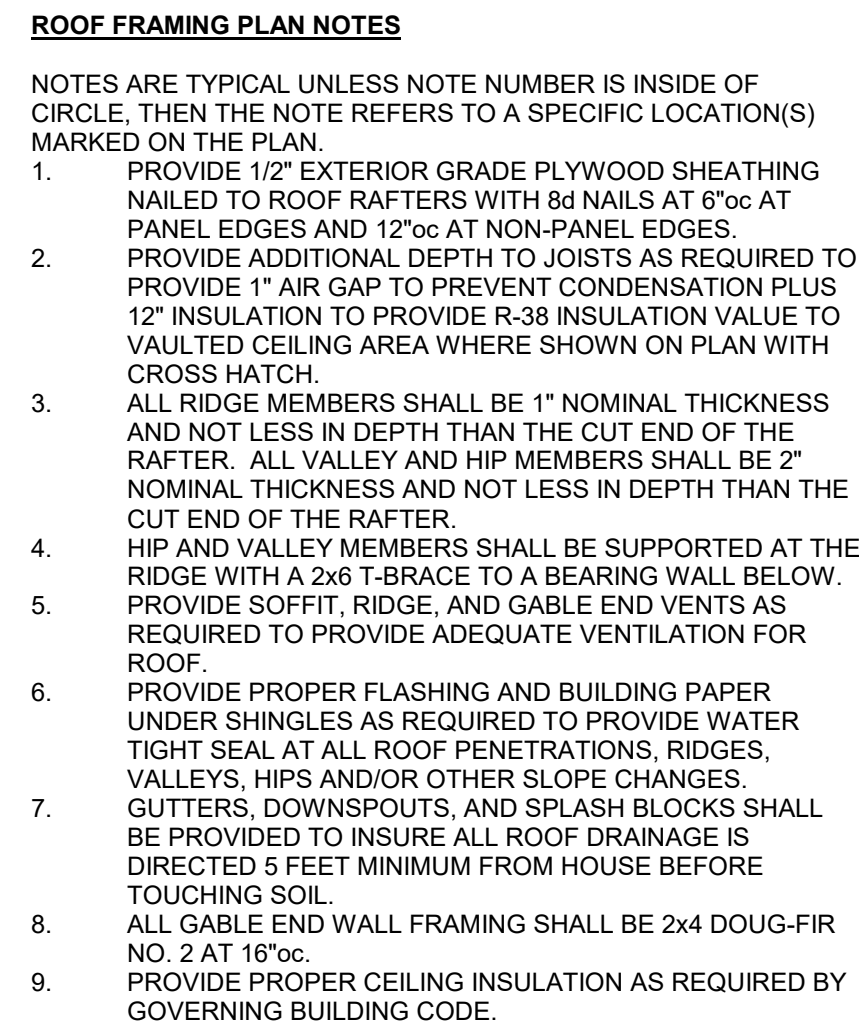
# 1 SECOND FLOOR FRAMING PLAN

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**STATE OF MISSOURI**  
**BRANDON SCHWABAUER**  
**REGISTERED PROFESSIONAL ENGINEER**  
NUMBER  
PE-2015003020  
4/17/2020

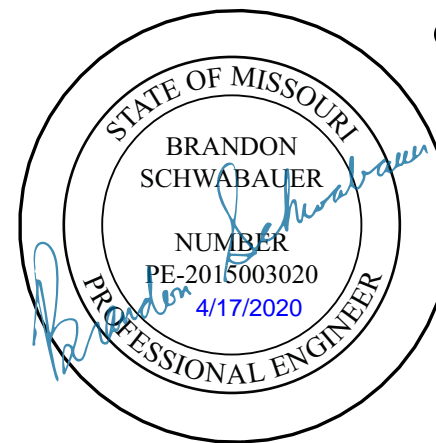
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**NOTE:**

- RAFTERS TO BE 2x6 DF-L No. 2 AT 16" O.C. U.N.O.
- HIP, VALLEY, AND RIDGE MEMBERS SHALL BE (1)2x8 DF-L No. 2 U.N.O.
- REF. 12/S503 FOR PURLING BRACING



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## ROOF FRAMING PLAN

S103



**GOVERNING BUILDING CODE:** 2012 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: \_\_\_\_\_
  - \* 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

## GENERAL

1. FURNISH ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN OR INFERRED BY THESE DRAWINGS.
2. THE 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 OR DISCREPANCIES IN THE DIMENSIONS OCCUR, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY AFTER BEING NOTICED BY THE ARCHITECT.
3. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND SHORING AS REQUIRED DURING CONSTRUCTION TO ENSURE THE SAFETY OF ALL INDIVIDUALS INVOLVED.
4. ALL REQUIRED PERMITS AND ERECTION OF SHORING ELEMENTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND THE LOCAL MUNICIPALITY.
5. THE ARCHITECT, NORTON & SCHMID CONSULTING ENGINEERS, L.L.C., HAS DESIGNED THE STRUCTURAL FLOOR FRAMING AND WALL. THE ARCHITECT'S DESIGN IS BASED ON THE ASSUMPTION THAT THE EXISTING FOUNDATION IS ADEQUATE TO SUPPORT THE SYSTEM OF THESE PLANS FOR THE CONSTRUCTION OF A RESIDENCE AT THE ADDRESS REFERENCED IN THE PLANS. NORTON & SCHMID CONSULTING ENGINEERS, L.L.C. WILL NOT TAKE RESPONSIBILITY FOR ANY RE-USE OF ANY FOUNDATION OR EXISTING FOUNDATION, PLANS OR SPECIFICATIONS AT ANY OTHER PROPERTY OR ADDRESS WITHOUT OUR PRIOR WRITTEN CONSENT.

**BUILDER'S PLANS:**

THE TERM "BUILDER'S PLANS" REFERS TO A CERTAIN LEVEL OF DEVELOPMENT OF THE DRAWINGS, AS THE NAME IMPLIES. THESE PLANS REQUIRE THAT THE CONTRACTOR POSSESSES COMPETENCE IN RESIDENTIAL CONSTRUCTION AND A KNOWLEDGE OF THE BUILDING CODES OF THE CITY OF CHICAGO. THE CONTRACTOR SHALL BE RESPONSIBLE TO NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C., THAT HE POSSESSES THE PARTICULAR COMPETENCE AND SKILL IN CONSTRUCTION NECESSARY TO BUILD THIS PROJECT WITHOUT FULL ENGINEERING AND DESIGN SERVICES, AND FOR THAT REASON THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT TO THE BUILDING CODES OF THE CITY OF CHICAGO. THE DOCUMENTS PROVIDED BY THE LIMITED SERVICES SHALL BE TERMED "BUILDER'S PLANS" IN RECOGNITION OF THE CONTRACTOR'S SOPHISTICATION. ALTHOUGH NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. AND OUR CONSULTANTS HAVE PERFORMED THEIR SERVICES WITH DUE CARE AND DILIGENCE, WE CANNOT GUARANTEE PERFECTION. ANY AMBIGUITY OR INCONSISTENCY IN THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. CONSTRUCTION MAY REQUIRE THAT THE CONTRACTOR ADAPT THE "BUILDER'S PLANS" TO THE FIELD CONDITIONS ENCOUNTERED AND MAKE LOGICAL ADJUSTMENTS IN FIT, FORM, DIMENSION AND QUANTITY. CHANGES TO THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT TO THE BUILDING CODES OF THE CITY OF CHICAGO. IT IS ALSO UNDERSTOOD THAT THE CONTRACTOR WILL BE RESPONSIBLE FOR MEETING ALL APPLICABLE BUILDING CODES INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, AND PLUMBING CODE REQUIREMENTS (WHICH IS EXCLUDED FROM THE PROJECT). THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT TO THE BUILDING CODES OF THE CITY OF CHICAGO. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE 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 CHANGES TO THE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. OF ALL RESPONSIBILITIES OF THE CONTRACTOR TO THE CITY OF CHICAGO.

**ARCHITECTURAL NOTES:**

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 AND OVERLAP SHALL BE 6" MINIMUM.
2. BUILDING SHALL COMPLY WITH SECTIONS 802.3 AND 802.3.1 OF THE 2012 IRC FOR RAFTER AND CEILING JOIST CONNECTIONS.
3. "JUF" GROUND SHALL BE PROVIDED PER IRC SECTION 3608.1
4. GUTTERS, DOWNSPUTS, AND SPLASH BLOCKS SHALL BE PROVIDED TO INSURE ALL ROOF DRAINAGE IS DIRECTED 5 FEET MINIMUM FROM HOUSE BEFORE TOUCHING SOIL.

**STAIR NOTES:**

- MAXIMUM RISER AT STAIRWAYS IS 7 3/4" AND MINIMUM TREAD IS 10" WITH A MINIMUM 6" HEADROOM. PER 2012 IRC SEC. R311.7.2.
- ALL 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 COMPLY W/ 2012 IRC SEC. R312.
- ALL HANDRAILS AND RAILINGS UNDERNEATH 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.
- STAIRWAYS CONSISTING OF 3 OR MORE RISERS SHALL HAVE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BENEATH THE STAIRS AND 36" ABOVE THE STAIRS.
- HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1 1/4" MINIMUM TO 2" MAXIMUM OR OTHER APPROVED EQUIVALENT SHAPES PER SECTION R311.7.8.3.
- SPiral STAIRS SHALL BE CONSTRUCTED PER SECTION R311.7.10.11.

**EMERGENCY EGRESS NOTES:**

1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS PER 2012 IRC SEC R310. PROVIDE (1) WINDOW IN EACH BEDROOM THAT HAS A MINIMUM OPERABLE AREA OF 5.7 SQ. FT.
2. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS AND ON EACH ADDITIONAL 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 TO A BATTERY BACKUP. PER 2012 IRC SEC R314 AND NFPA.
3. CARBON MONOXIDE DETECTORS SHALL BE PROVIDED PER R315.

**WINDOWS AND SAFETY GLAZING NOTES:**

1. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS: GLASS IN STORM DOORS, INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" RADIUS OF THE DOOR IN A CLOSED POSITION AND WITHIN 18" OF THE TOP OR BOTTOM OF THE STAIR ENCLOSURES FOR SPAS, TUBS, SHOWERS AND WHIRLPOOLS; GLAZING IN FIXED OR OPERABLE PANELS 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.

**GARAGE:**

- |    |   |
|----|---|
| 2. | GARAGE FLOORS SHALL SLOPE TOWARDS THE GARAGE DOORWAYS.  |
| 3. | DOORS BETWEEN THE GARAGE AND THE DWELLING SHALL BE A MINIMUM 1 3/8" SOLID CORE OR HONEY COMBED STEEL DOOR OR A 20 MINUTE FIRE RATED DOOR.   |
| 4. | DOORS TO 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 SUPPORTING COLUMNS AND BEAMS SHALL ALSO BE PROTECTED WITH 1/2" GYPSUM BOARD OR EQUIVALENT, WHERE APPLICABLE. THE SPACE BETWEEN THE GARAGE FLOOR AND THE CEILING SHALL BE PROTECTED WITH 1/2" GYPSUM BOARD. |
| 5. | THE TYPE X GYPSUM BOARD ON THE GARAGE CEILING, SHALL COMPLY WITH 2012 IRC SECTION R309.   |
| 6. | GARAGE DOOR AND FRAME (H-FRAME) FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF 2X6 OR LARGER. THE TRACK SHALL BE 1 1/2" TO 2" GALVANIZED STEEL OR EQUIVALENT ATTACHED TO THE CEILING WITH (7) 3/4" X 10" LAG BOLTS STAGGERED WITH (7) 3/4" X 10" NAILS THRU THE JAMB INTO THE HEADER. MINIMUM 2X6 HEADER FOR ATTACHMENT FOR COUNTER BALANCE SYSTEM.   |
| 7. | DOOR AND FRAME SHALL COMPLY WITH THE REQUIREMENTS FOR A SELF CLOSING DOOR BETWEEN RESIDENCE AND GARAGE.   |
| 8. | GARAGE DOORS SHALL MEET THE REQUIREMENTS OF DASHA 90 MPH.   |

### STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
  2. a. STRUCTURAL STEEL - ASTM A592, F = 50 KSI
  3. b. MISCELLANEOUS STEEL - ASTM A36
  4. c. HOLLOW STRUCTURAL STEEL (HSS) - ASTM A500, GRADE B
  5. d. STEEL PIPE - ASTM A53, GRADE B (SCH 40 & B (SCH 40 MIN))
2. ALL BEAM CONNECTIONS SHALL BE DESIGNED BY THE STRUCTURAL ENGINEER UNDER THE DIRECTION OF THE PROFESSIONAL ENGINEER UNLESS SPECIFIC CONNECTIONS ARE SHOWN ON THE DRAWINGS. CONNECTIONS SHALL BE DESIGNED TO BE WELDED OR BOLTED PER AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION. BOLTS SHALL BE ASTM A325N.
3. ALL COLUMN ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36.
4. ALL WELDS SHALL CONFORM TO THE WELDING SPECIFICATIONS APPLICABLE CODES SET FORTH BY THE AMERICAN WELDING SOCIETY. NO UNAUTHORIZED WELDS WILL BE ACCEPTED.
5. ALL STEEL COLUMN WHERE IN CONTACT WITH SLAB-ON-GRADE.
6. ALL EXTERIOR STEEL EXPOSED TO THE ELEMENTS SHALL BE HOT DIPPED GALVANIZED UNLESS NOTED OTHERWISE.
7. ALL STRUCTURAL STEEL SHALL HAVE ONE COAT OF RUST INHIBITIVE PRIMER CONFORMING TO SPECIFICATIONS. FIELD

**WOOD FRAMING NOTES:**

1. 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 STRUTS SHALL BE DOUGLAS FIR LARCH #2 OR BETTER.
2. GLUE LAMINATED MEMBERS MARKED "LVL" (LAMINATED VENEER LUMBER) SHALL HAVE A MINIMUM ALLOWABLE BENDING STRESS (FB) OF 2600 PSI. A MINIMUM ALLOWABLE SHEAR STRESS (FV) OF 285 PSI, AND A MINIMUM MODULUS OF ELASTICITY (E) OF 2,000 KSI. ALL MANUFACTURERS RECOMMENDATIONS FOR NAILING AND CONNECTIONS SHALL BE FOLLOWED.
3. FLOOR JOISTS DOUBLE PARTITION WALLS RUNNING PERPENDICULAR TO THE JOIST SPAN SHALL BE DOUBLED. ALL DOUBLED JOISTS SHALL BE NAIL TOGETHER WITH 16D NAILS 16" ON CENTER IN TWO ROWS STAGGERED OR PER MANUFACTURER SPECS.
4. SOLID BLOCKING BETWEEN FLOOR JOISTS SHALL BE INSTALLED WHERE JOISTS BEAR ON TOP OF BEAMS OR HEADERS AND BELOW POINT LOADS. ALL JOIST BLOCKING SHALL BE THE SAME SIZE AND GRADE AS THE JOISTS.
5. ALL FLOOR AND CEILING JOISTS THAT BUTT INTO THE SIDE OF A HEADER OR STEEL BEAM SHALL BE ANCHORED TO THE BEAM OR STEEL BEAM WITH TWO STANDARD JOIST HANGERS.
6. ALL SUPPORTS FOR WOOD TRUSSES, RAFTERS AND PURLINS, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, SHALL BEAR ON LOAD BEARING WALLS (WALLS LOCATED DIRECTLY ABOVE A BEAM LINE OR CONTINUOUS FOOTING). ALL TRUSSES, RAFTERS, AND PURLINS SHALL BE FASTENED THROUGH THE FLOOR SYSTEM THICKNESS WITH SOLID BLOCKING WITH 2X4 STUD COLUMNS (SQUASH BLOCKS) THAT TRANSFER THE LOAD DOWN TO THE SUPPORT WALL OR BEAM BELOW.
7. ALL NAILING NOT INDICATED ON THE DRAWINGS SHALL CONFORM TO THE NAILING SCHEDULE OF THE GOVERNING BUILDING CODE. SPACING AND EDGE DISTANCES OF NAILS AND SPIKES SHALL BE SUCH AS TO AVOID THE UNUSUAL SPLITTING OF THE WOOD.
8. ALL NON-LOADBEARING STUD WALLS IN THE BASEMENT SHALL BE PROVIDED WITH A 1" MINIMUM VERTICAL EXPANSION JOINT FOR EVERY 10' OF WALL HEIGHT. THE JOINT SHALL BE LOCATED IN THE FLOOR SLAB.
9. WALLS SHALL NOT BE TIGHT BETWEEN THE SLAB AND THE FRAMING ABOVE.
10. SHEATHING FOR HORIZONTAL DIAPHRAGMS SHALL BE EXTERIOR GRADE, CID, STRUCTURAL GROUP II OR BETTER. ROOF AND RAFTERS SHALL BE EXTERIOR GRADE OR 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 JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS.
11. ALL WOOD STRUCTURAL PANELS SHALL BE FASTENED WITH THE APPROPRIATE GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION (APA) AND SHALL MEET THE REQUIREMENTS OF PRODUCT STANDARD PS-1.
12. WOOD STRUCTURAL PANELS SHALL BE SET WITH FACE GRAIN PERPENDICULAR TO SUPPORTING MEMBERS AND STAGGER JOINTS.
13. STANDARD WASHERS SHALL BE USED WITH ALL BOLTS FASTENING WOOD MEMBERS.
14. ALL SAWN LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVE TREATED.
15. ROOF FRAMING - RIDGE BEAMS, VALLEY AND HIP RAFTERS SHALL HAVE A MINIMUM NOMINAL THICKNESS OF 2" AND MINIMUM DEPTH NOT LESS THAN THE END CUT OF THE RAFTERS. HIP AND VALLEY RAFTERS SHALL BE SUPPORTED AT THE END CUT BY A 2X4 OR 2X6 STUD. ALL RAFTERS SHALL BE FASTENED TO THE END CUT OF THE BRACKS (USED TO PERMIT LONG RAFTERS SPAN, USE 2X6 "TEE" BRACES AT 4'-0" O.C. WITH CONTINUOUS 2X4 PURLIN UNDER THE RAFTERS. BRACE RAFTERS TO BEARING PARTITIONS).
16. PROVIDE CONTINUOUS STRONG BRACES FOR CEILING JOIST SPANS 12'-0" OR GREATER.
17. 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. 2X8S AT 16" O.C. - 12'-0"
- b. 2X10S AT 16" O.C. - 15'-0"
- c. 2X10S AT 12" O.C. - 16'-0"
- d. 2X12S AT 16" O.C. - 17'-0"
18. CEILING JOISTS (C.J.'S) ARE DFL #2, AT 16" O.C., WITH AN ALLOWABLE SPAN AS FOLLOWS, OR AS SHOWN ON PLANS:
- a. 2X8S AT 16" O.C. - 12'-0"
- b. 2X8S AT 16" O.C. - 15'-0"
- c. 2X10S AT 16" O.C. - 19'-0"
- d. 2X12S AT 16" O.C. - 22'-0"
19. FLOOR JOISTS ARE DFL #2, AT 16" O.C., WITH AN ALLOWABLE RAFTER SPAN AS FOLLOWS:
- a. 2X8S AT 24" O.C. - 12'-0"
- b. 2X8S AT 16" O.C. - 10'-0"
- c. 2X10S AT 24" O.C. - 14'-0"
- d. 2X8S AT 16" O.C. - 15'-1"
20. BRACE THE COMPRESSION FLANGE OF ALL BEAMS UNLESS NOTED OTHERWISE.
21. ALL BEAM HEADS SHALL BE PROTECTED FROM 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 SUPPORTING MEMBER. U.N.O.
22. ALL FRAMING MEMBERS AND FRAMING ACCESSORIES NOTED SHALL BE AS MANUFACTURED BY "SIMPSON STRONG TIE" OR APPROVED EQUIV. ATTACH FRAMING ACCESSORIES TO WOOD FRAMING IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
23. ALL FRAMING SHALL BE SHOWN ON PLAN, FOR HEADERS NOT MARKED REFERENCE TYPICAL BEARING WALL HEADER SCHEDULE.
24. FLOOR SHEATHING SHALL BE 3/4" TONGUE & GROOVE WOOD STRUCTURAL PANEL, GLUE & NAIL TO FLOOR JOISTS WITH 2X4 STUD COLUMNS AT 16" O.C. AT ALL PANEL EDGES AND AT 12" O.C. AT INTERMEDIATE SUPPORTS.
25. ALL EXTERIOR WOOD WALL FRAMING SHALL BE 2X6 DOUG-FIR NO. 2 AT 16" O.C. UNO.
26. ALL INTERIOR BEARING WALL FRAMING SHALL BE 2X4 DOUG-FIR NO. 2 AT 16" O.C. UNO.
27. ALL TRUSSES AND RAFTERS CONNECTIONS SHALL BE DESIGNED BY A TRUSS MANUFACTURER FOR THE LOADS STIPULATED ON THE DRAWINGS. SHOP DRAWINGS AND CALCULATIONS WITH AN ENGINEER'S SEAL FOR THE STATE OF MISSOURI SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. CONNECTION PLATES SHALL MEET THE REQUIREMENTS OF THE MISSOURI BUILDING CODE.
28. TEMPORARY STABILITY OF WOOD TRUSSES DURING ERECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IN CONJUNCTION WITH ALL RECOMMENDATIONS OF THE MANUFACTURER.
29. WOOD TRUSSES SHALL NOT BE FIELD CUT.

**ENERGY REQUIREMENTS:**

2. THE BUILDING THERMAL ENVELOPE SHALL BE SEALED WITH AN AIR BARRIER PER 2012 IRC SECTION N102.
3. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE 9C-RATED, LEAKAGE RATED AND SEALED TO THE CYPRESS WALL BOARD.
4. PROGRAMMABLE THERMOSTATS SHALL BE INSTALLED AS REQUIRED PER N1103.1.3.
5. MECHANICAL FANS SHALL BE RATED FOR MAXIMUM 25% LEAKAGE PER 2012 IRC SECTION N1103.1.3.
6. BUILDING CAVITIES USED AS RETURN AIR PLenums SHALL BE SEALED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE AS REQUIRED PER N1103.2.3.
7. INSULATION BARRIER IN THERMAL ENVELOPE WALL SHALL NOT BE USED AS RETURN AIR PLenum UNLESS THE REQUIRED INSULATION BARRIER IS MAINTAINED PER M1601.1.1.
8. BUILDING CAVITIES IN A PLenum SHALL BE SEALED PER N1103.4.
9. HOT WATER PIPES SHALL BE INSULATED AS REQUIRED PER N1103.4.
10. MECHANICAL FANS IN THE BUILDING EXTERIOR AS REQUIRED PER M1507.2.
11. MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM AS REQUIRED PER M1507.2.
12. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER M1601.6.
13. MINIMUM MECHANICAL EFFICIENCY RATING FOR AC EQUIPMENT IS 13 SEER AS REQUIRED PER 2012 IRC SECTION N1103.1.3.

### INSULATION AND FENESTRATION REQUIREMENTS - IRC TABLE N1102.1.1

FENESTRATION	U<0.35 (b)
SKYLIGHT	U<0.55 (b)
CEILING - FLAT	R-49
CEILING - VAULTED	R-38
WOOD FRAME WALL	R-13
MASS WALL	R-8R-13 (f)
FLOOR OVER UNHEATED SPACE	R-9
FLOOR OVER OUTSIDE AIR	R-30
DUCTS OUTSIDE OF THE CONDITIONED SPACE	R-18
BASEMENT WALL	R-10R-13 (c)
SLAB (R VALUE/DEPTH)	R-10/2ft (d)
CRAWLSPACE WALL W/ FLOOR INSULATION	R-10R-13 (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 LESS THAN THE MINIMUM R-VALUE REQUIRED BY THE REQUIREMENT.  
 b. THE PENETRATION U-FACTOR EXCLUDES SKYLIGHTS.  
 c. THE FIRST R-VALUE APPLIES TO CONTINUOUS INSULATION, THE SECOND TO FRAMING CAVITY INSULATION; EITHER R-5 SHALL BE ADDED TO THE REQUIRED SLAB EDGE R-VALUES FOR HEATED SLABS. INSULATION DEPTH SHALL BE THE DEPTH OF THE FOOTING OR 2 FEET WHICHEVER IS LESS IN ZONES 1 THROUGH 3 FOR HEATED SLABS.  
 d. INSULATION SHOULD BE INSTALLED TO THE FINISH GRADE OF THE MARINE ZONE. IN THE MARINE ZONE, INSULATION ON BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED BY FIGURE M1101.10 AND TABLE M1101.10.  
 e. INSULATION SUFFICIENT TO FILL THE CAVITY. R-19 MINIMUM.  
 f. FIRST VALUE IS CAVITY INSULATION, SECOND IS CONTINUOUS INSULATION OR INSULATED SIDING, SO "13+5" MEANS R-13 CAVITY INSULATION PLUS R-5 CONTINUOUS INSULATION OR INSULATED SIDING. IF STRUCTURAL SHEATHING COVERS R-13 OR LESS, THE SECOND R-VALUE OF INSULATION OR INSULATED SIDING SHALL BE REQUIRED TO BE ADDED TO BE NO MORE THAN R-3 IN THE LOCATIONS WHERE STRUCTURAL SHEATHING IS USED - TO MAINTAIN A CONSISTENT TOTAL INSULATION VALUE.  
 g. 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	MIN	MINIMUM
ASIC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MISC	MISCELLANEOUS
AISI	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	PAF	POWDER ACTUATED
BOS	BOTTOM OF	PCF	FASTENERS
BRB	BOTTOM OF STEEL	PL	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	QUANTITY
COL	CLEAR	REFIN	REFERENCE
CONC	COLUMN	REQD	REINFORCING
CONST	CONCRETE	REV	REQUIRED
CONT	CONSTRUCTION	RO	REVERSE
DIA	CONTINUOUS	SIM	ROUGH OPENING
EIFS	DIAMETERS	T&B	SIMILAR
EL	EXTERIOR INSULATION AND FINISH SYSTEM	TSB	TOP AND BOTTOM
ELEC	ELEVATION	THK	TOP OF FOOTING STEP
EQ	ELECTRICAL	TO	THICK
EW	EQUAL	TCC	TOP OF
FDN	EACH WAY	TOF	TOP OF CONCRETE
FF	FOUNDATION	TOF	TOP OF FOOTING
FS	FINISH FLOOR	TOS	TOP OF PAVING
FTG	FAR SIDE	TRANS	TOP OF STEEL
GA	FOOTING	TYP	TRANSVERSE
GC	CONTRACTOR	UNO	TYPICAL
GP BD	GENERAL CONTRACTOR	VERT	UNLESS NOTED OTHERWISE
HORIZ	GYPSUM BOARD	W	VERTICAL
HSA	HORIZONTAL	WBM	WIDTH
INFO	HEADED STUD ANCHOR	WP	WALL BRACE METHOD
JST	INFORMATION	WS	WORK POINT
JT	JOIST	WWF	WALL STEP
KSI	JOINT		WELDED WIRE FABRIC
LBS	KIPS PER SQUARE INCH		
LONG	POUNDS		
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
TYPE  TYPE	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		

## PROJECT INFORMATION

# THE LEXINGTON II

2521 SW River Trail Road  
Lee's Summit, Missouri

[illegible]

DRAWN BY: MLE

CHECKED BY: BSS

ISSUED FOR:

SHEET TITLE

## GENERAL NOTES

## SHEET NUMBER

S500

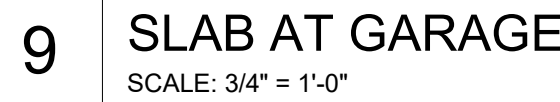
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STATE OF MISSOURI  
BRANDON SCHWABAUER  
NUMBER  
PE-20150035020  
4/17/2020  
PROFESSIONAL ENGINEER

N&S JOB NUMBER: 2020-0255

N&S JOB NUMBER: 2020-0255





S501









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 30	20 26 39
4:12	12 16 24	3 4 5	5 6 9	6 8 12	8 11 16	4 5 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	4 5 7	5 7 10	7 9 14	9 12 18	5 7 13	8 9 18	12 16 26
7:12	12 16 24	3 3 3	3 4 5	4 5 7	5 6 9	3 3 4	4 5 7	5 7 10	7 9 13	3 5 9	5 6 9	7 9 13	9 11 17
9:12	12 16 24	3 3 3	3 3 4	3 4 6	4 5 7	3 3 3	3 4 6	4 5 8	5 7 10	3 4 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 4	3 3 6	3 4 8	4 5 10	3 4 7	3 4 8	4 5 10	5 7 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                                       |

ROOF RAFTER SCHEDULE						
GRADE	MEMBER SIZE / SPACING	MAX SPAN CEILING JSTS AT TOP PLATE	MAX SPAN H <sub>1</sub> H <sub>2</sub> R0.16	MAX SPAN H <sub>1</sub> H <sub>2</sub> R0.20	MAX SPAN H <sub>1</sub> H <sub>2</sub> R0.25	MAX SPAN H <sub>1</sub> H <sub>2</sub> R0.33
#2 DF/L	2x6 / 16"oc	14'-1"	12'-8"	11'-8"	10'-8"	9'-5"
#2 DF/L	2x8 / 16"oc	18'-2"	16'-4"	15'-1"	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"

Diagram illustrating the components and specifications of a gabled roof structure, showing the relationship between various parts and their dimensions.

**Key Components and Specifications:**

- RAFTER SPANS, SEE TABLE 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**
- COLLAR TIE OR RIDGE STRAP, 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 ( $H_{cl}/H_r = 1/3$  MAX.)**
- RIDGE BOARD/BEAM, RE: SECT's R802.3 & R802.3.1**

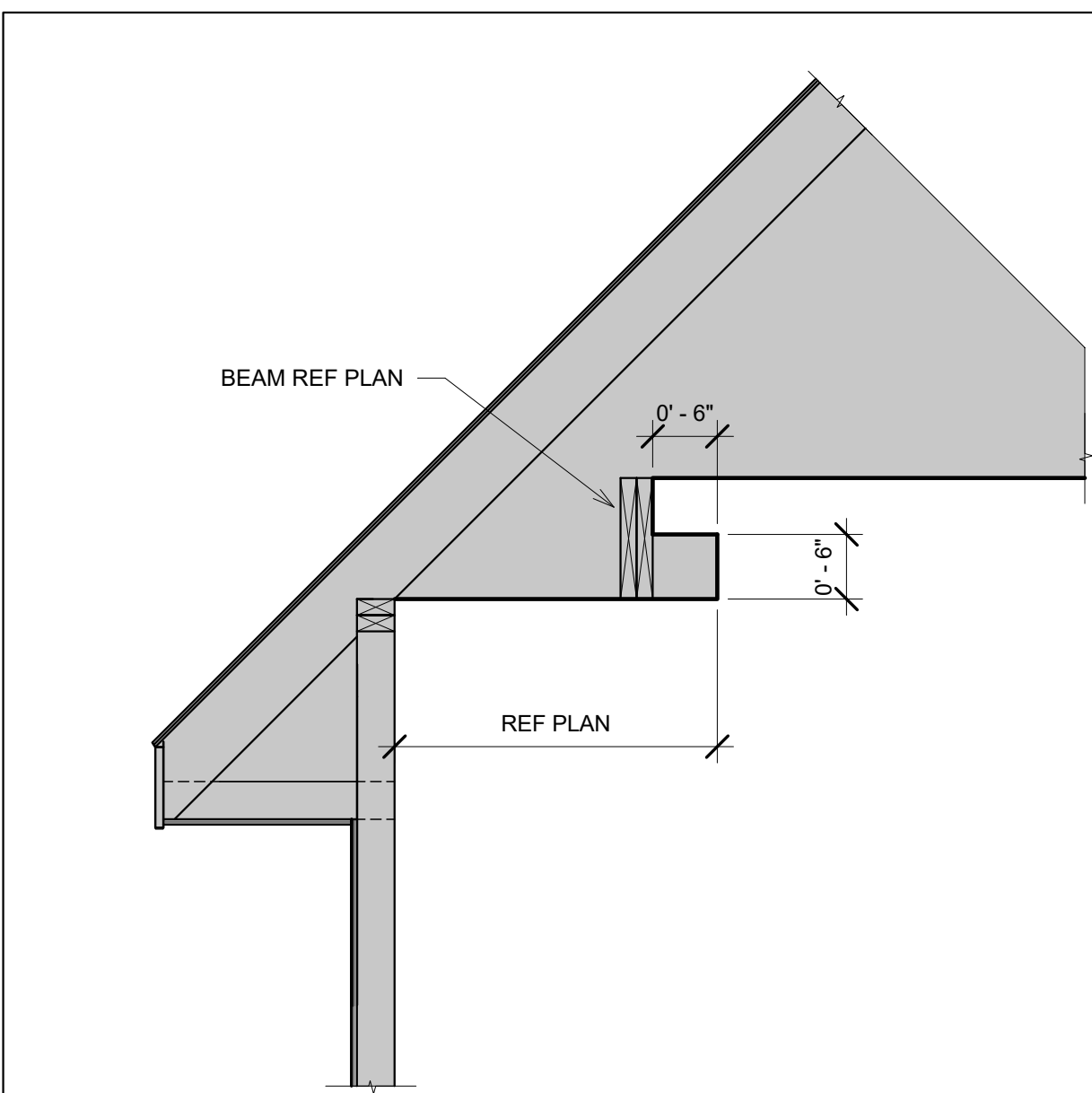
**Dimensions:**

- ROOF SPAN**
- H<sub>r</sub>** (Rafter Height)
- H<sub>cl</sub>** (Ceiling Joist Height)

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 (2½" x 0.113")		
Ceiling joists to plate, toe nail	3 - 8d (2½" 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 ¼" x 20 gage ridge strap	3 - 10d (3" x 0.128")		
Rafter or roof truss to plate, toe nail	3 - 16d box nails (3½" 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 (3½" x 0.135") 3 - 16d (3½" 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 ½" spacer	16d (3½" x 0.135")		16" o.c. along ea. edge
Continued header, two pieces	16d (3½" x 0.135")		16" o.c. along ea. edge
Continuous header to stud, toe nail	4 - 8d (2½" 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 (3½" x 0.135")		
Sole plate to joist or blocking, face nail	16d (3½" x 0.135")		16" o.c.
Sole plate to joist or blocking at braced wall panels	3 - 16d (3½" x 0.135")		16" o.c.
Stud to sole plate, toe nail	3 - 8d (2½" x 0.113") or 2 - 16d (3½" x 0.135")		
Top or sole plate to stud, end nail	2 - 16d (3½" 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 (2½" x 0.113") 2 staples, 1¾"		
1" x 6" sheathing to each bearing, face nail	2 - 8d (2½" x 0.113") 2 staples, 1¾"		
1" x 8" sheathing to each bearing, face nail	2 - 8d (2½" x 0.113") 3 staples, 1¾"		
Wider than 1" x 8" sheathing to each bearing, face nail	3 - 8d (2½" x 0.113") 4 staples, 1¾"		
<b>Floor</b>			
Joist to sill or girder, toe nail	3 - 8d (2½" x 0.113")		
Rim joist to top plate, toe nail (roof applications also)	8d (2½" x 0.113")		6" o.c.
Rim joist or blocking to sill plate, toe nail	8d (2½" x 0.113")		6" o.c.
1" X 6" subfloor or less to each joist, face nail	2 - 8d (2½" x 0.113") 2 staples, 1¾"		
2" subfloor to joist or girder, blind & face nail	2 - 16d (3½" x 0.135")		
2" planks (plan & beam - floor & roof)	2 - 16d (3½" 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 (3½" 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				
¾" - 1½"	8d common (2"x0.113") nail (subfloor, wall)(i) 8d common (2½" x 0.131") nail (roof)(f)	6"	12" (g)	
1½" - 1"	8d common (2½" x 0.131") nail (f)	6"	12" (g)	
1½" - 1½"	10d common (3" x 0.148") nail or 8d (2½" x 0.131") deformed nail	6"	12"	
Other wall sheathing (h)				
½" structural cellulose fiberboard sheathing	1½" galvanized roofing nail 8d common (2½" x 0.131") nail; staple 16 ga., 1½" long	3"	6"	
¾" structural cellulose fiberboard sheathing	1¾" galvanized roofing nail 8d common (2½" x 0.131") nail; staple 16 ga., 1" long	3"½	6"	
½" gypsum sheathing (d)	1½" galvanized roofing nail; staple galvanized, 1½" long; 1½" screws, Type W or S	7"	7"	
¾" gypsum sheathing (d)	1¾" galvanized roofing nail; staple galvanized, 1½" long; 1½" screws, Type W or S	7"	7"	
Wood structural panels, combination subfloor underlayment to framing				
¾" or less	6d deformed (2" x 0.120") nail or 8d common (2½" x 0.131") nail	6"	12"	
¾" - 1"	8d common (2½" x 0.131") nail or 8d deformed (2½" x 0.120") nail	6"	12"	
1½" - 1½"	10d common (3" x 0.148") nail or 8d deformed (2½" x 0.120") nail	6"	12"	
<p>a. All nails are smooth-common, box or deformed shapes 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 ⅜-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 ½" 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 floor 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 parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.</p>				



0' - 1"

SHIPLAP SIDING ON BREATHABLE WATER RESISTANT BARRIER

2x STUD FRAMING

DOUBLE RAFTERS AND CEILING JOISTS  
AT INTERSECTION OF RIDGE AND HIP

(8)10d COMMON NAILS AT EACH RAFTER  
TO JOIST CONNECTION. TOTAL OF (16)10d  
NAILS PER HEEL CONNECTION.

# 1 RAFTER/JOIST RIDGE SUPPORT

STATE OF MISSOURI  
BRANDON  
SCHWABAUER  
NUMBER  
PE-2015003020  
4/17/2020  
PROFESSIONAL ENGINEER

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Norton & Schmidt

521 SW River Trail Road  
Lee's Summit, Missouri

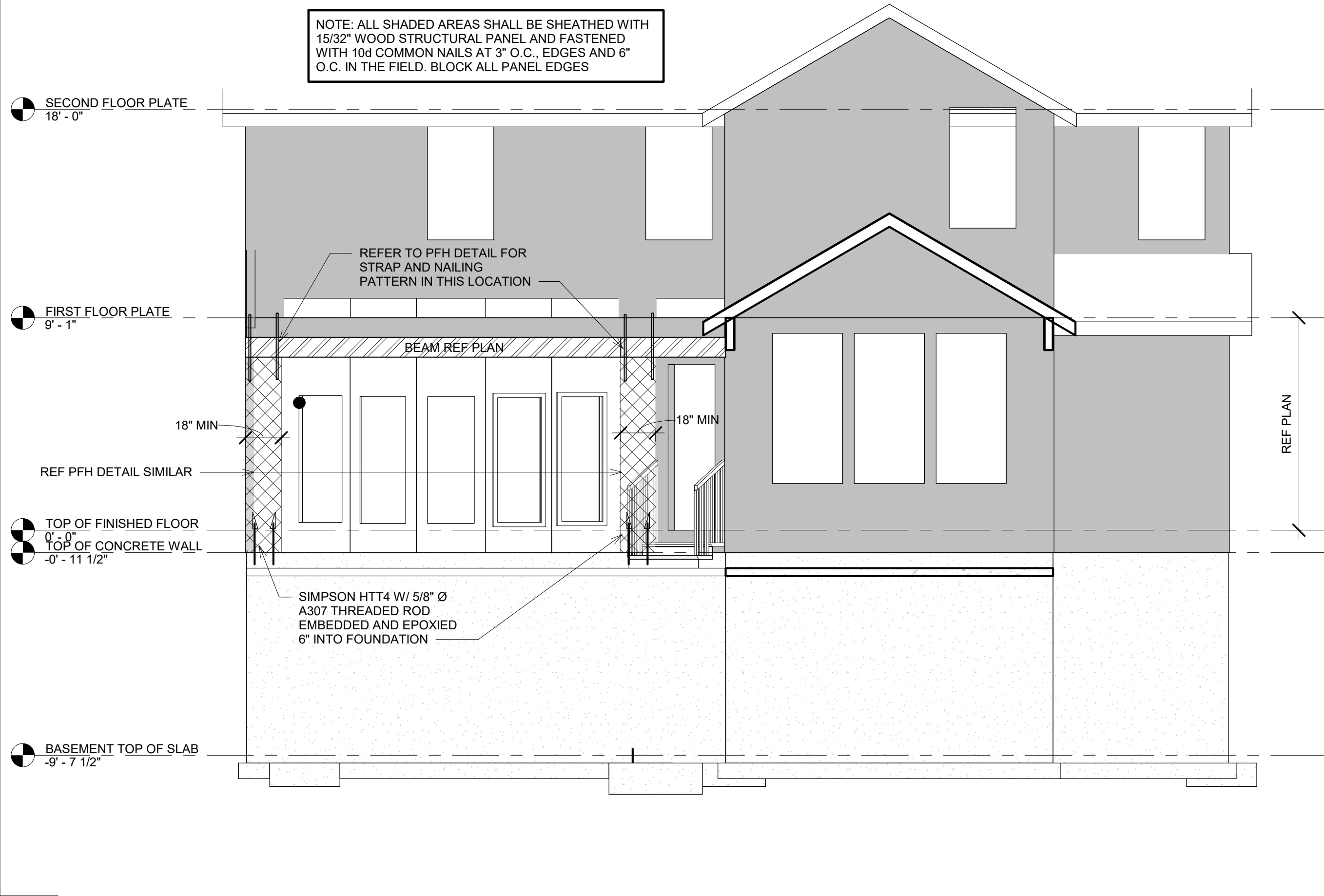
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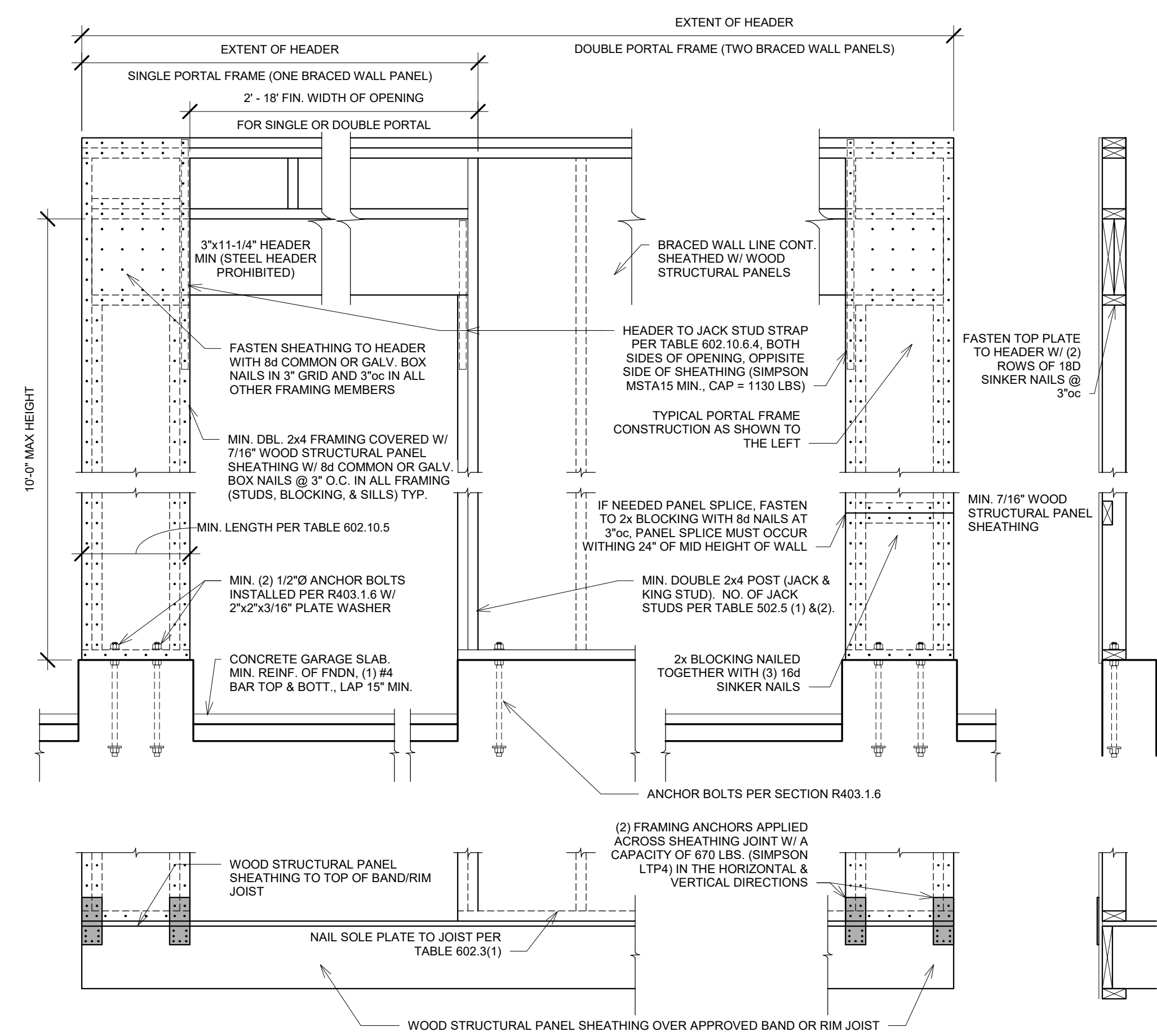
## DETAILS

S504

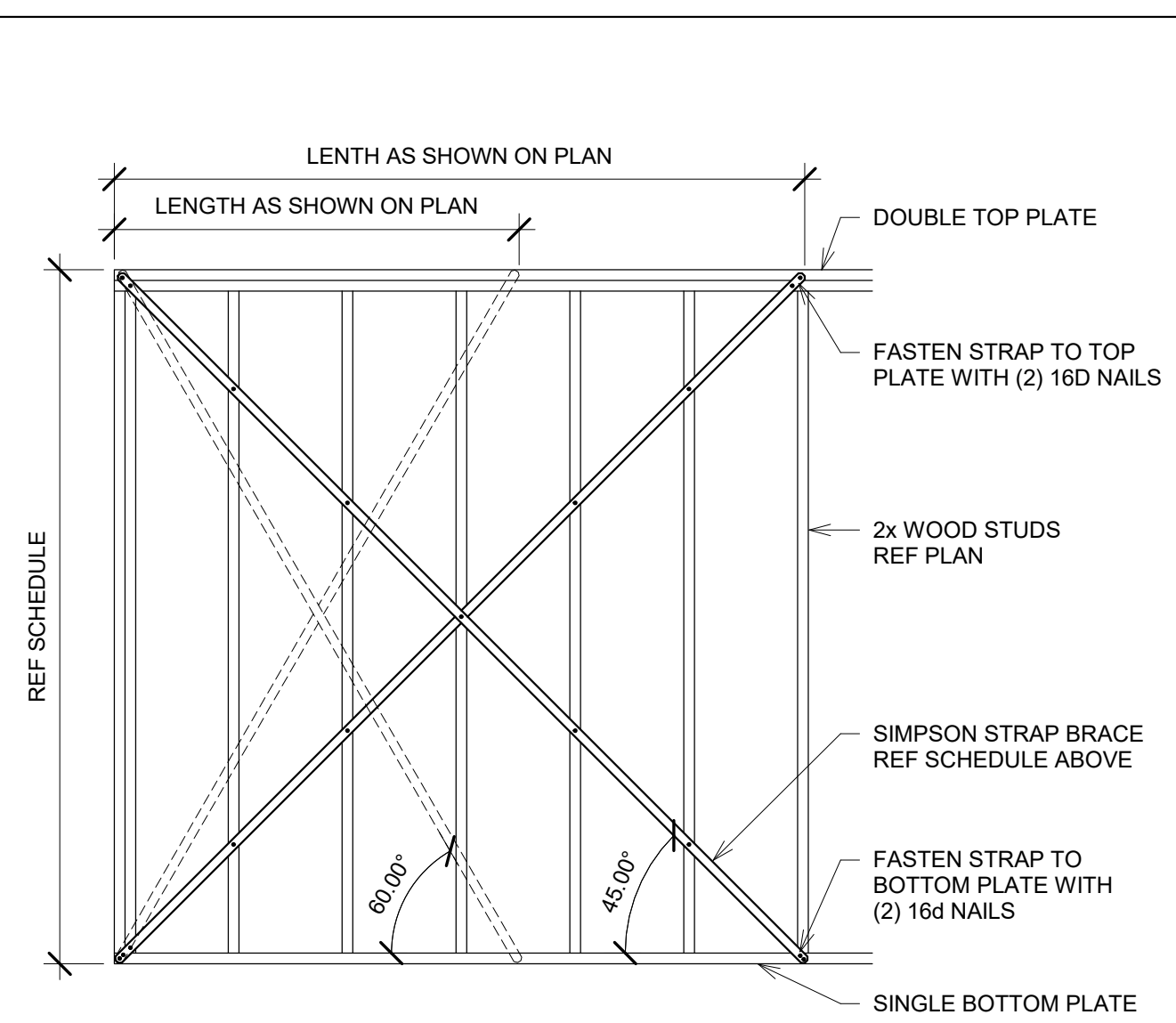




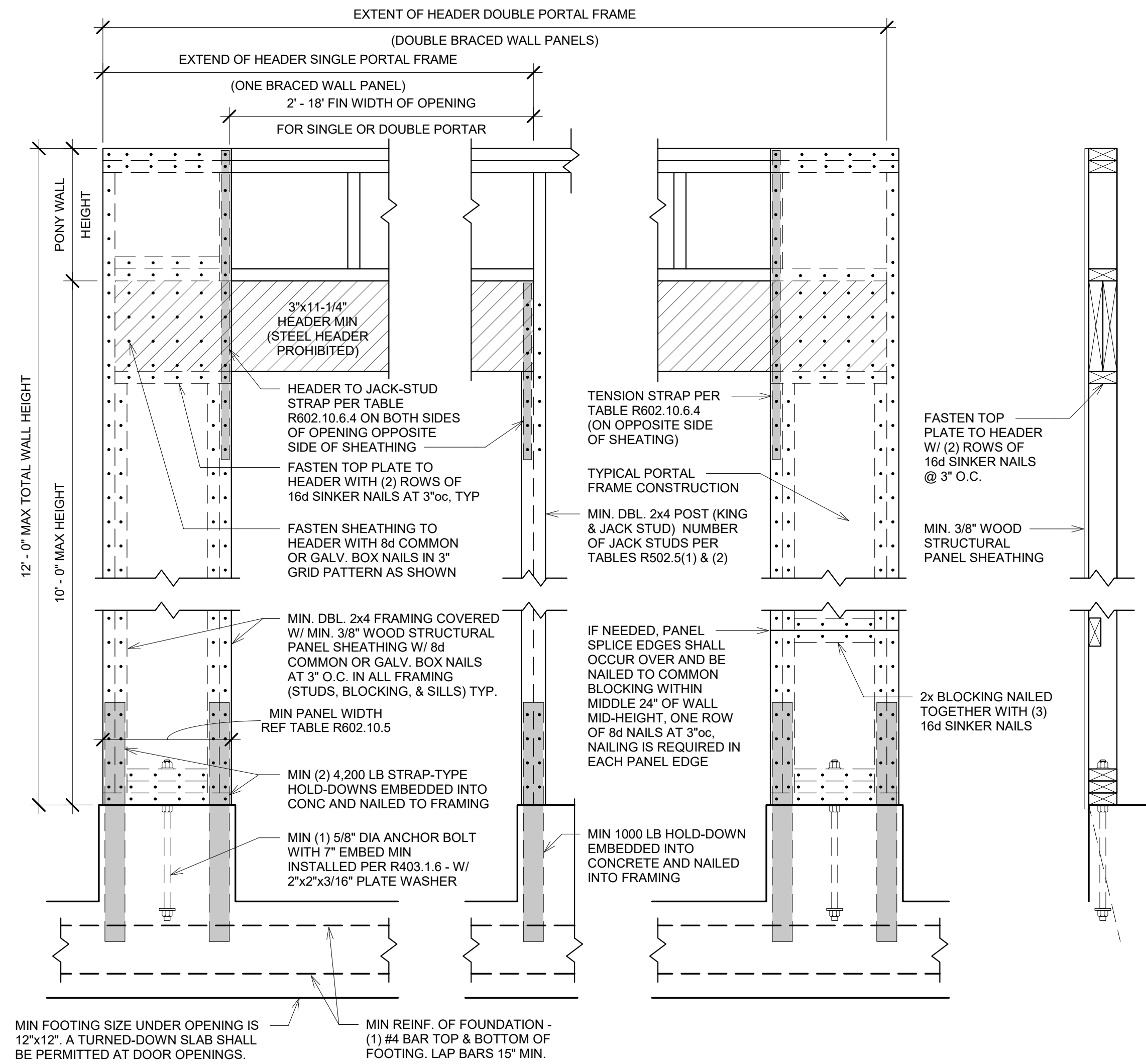
3 ENGINEERED WALL BRACING AT BACK ELEVATION  
SCALE: 1/4" = 1'-0"



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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STATE OF MISSOURI  
BRANDON SCHWABAUER  
NUMBER PE-2015003020  
4/17/2020  
PROFESSIONAL ENGINEER

N&S JOB NUMBER: 2020-0255  
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**PROJECT INFORMATION**  
THE LEXINGTON II  
2521 SW River Trail Road  
Lee's Summit, Missouri

ISSUES & REVISIONS		
#	DATE	DESCRIPTION
1	04/03/2020	PERMIT
2	04/17/2020	Full Basement

DRAWN BY: MLR  
CHECKED BY: BSS  
ISSUED FOR:

**SHEET TITLE**  
DETAILS

**SHEET NUMBER**  
S505