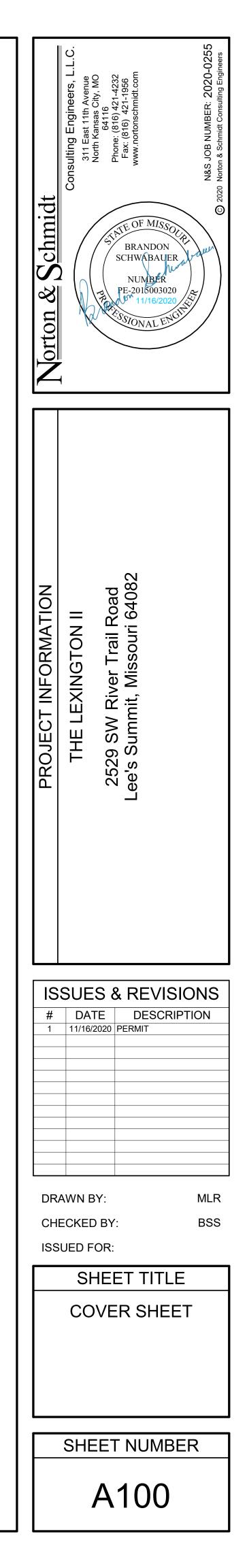
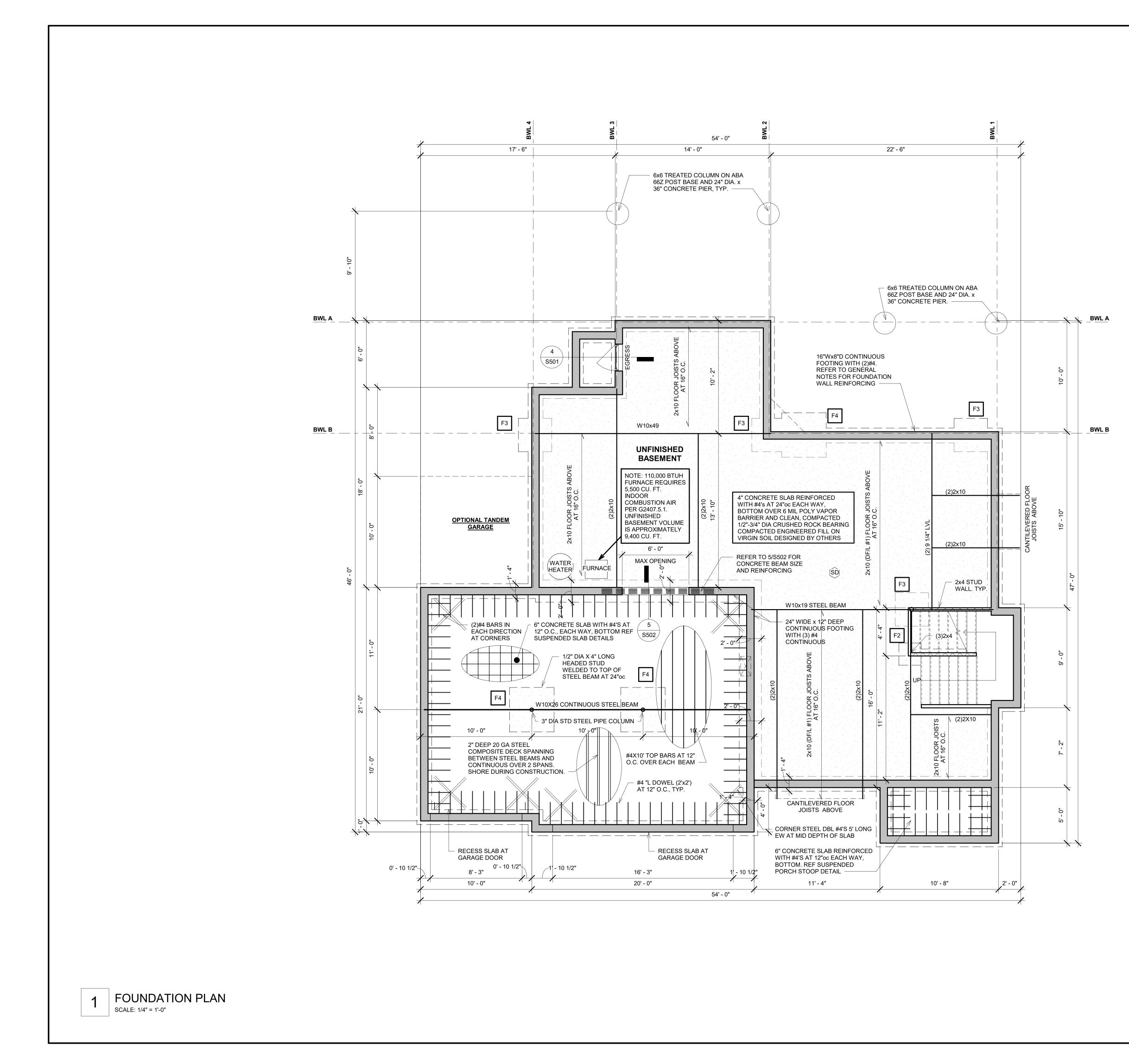
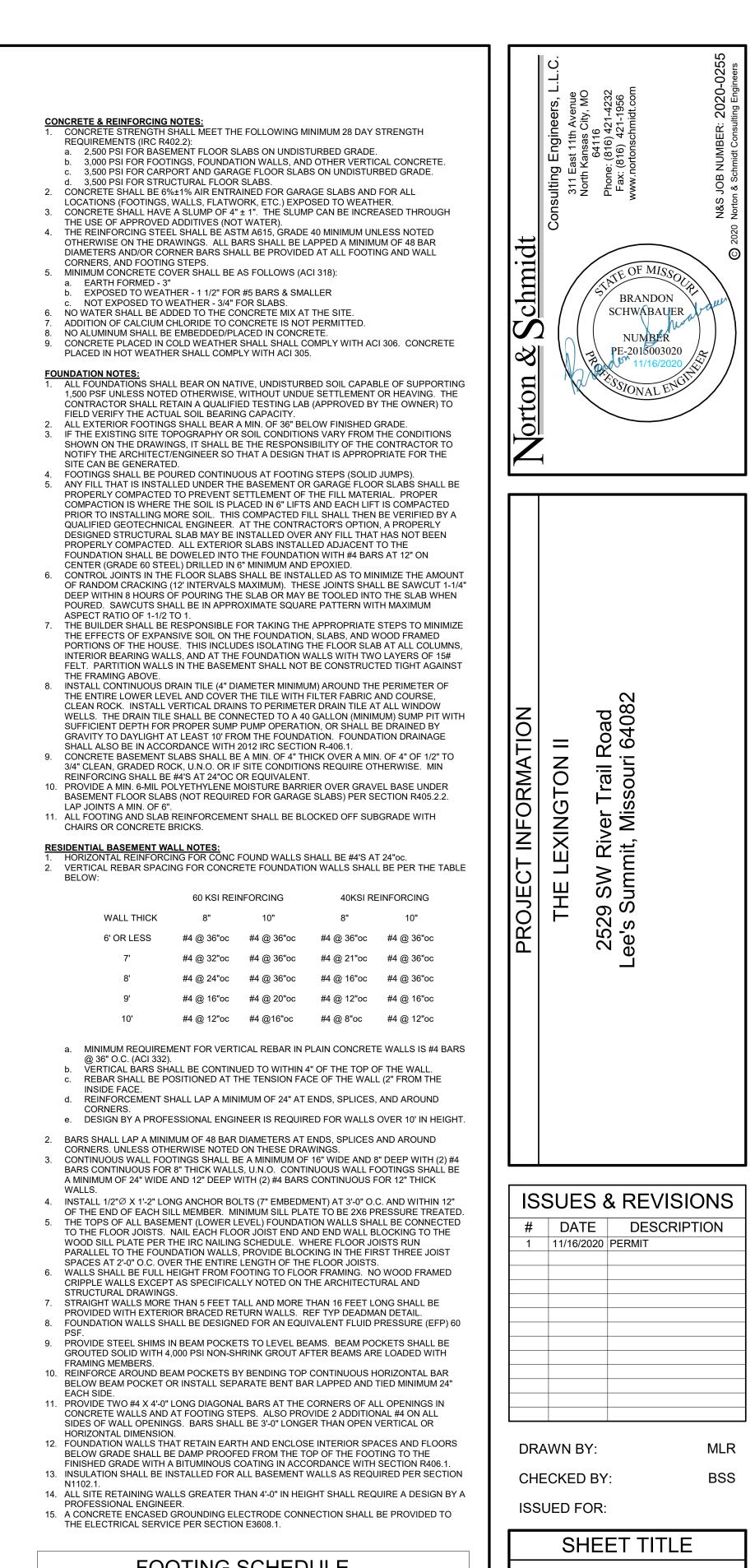


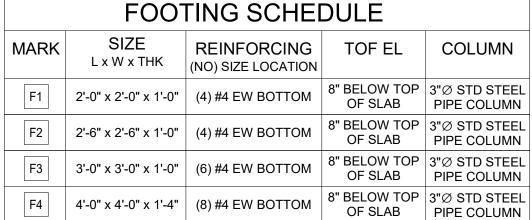
S	HEET INDEX
Sheet	Sheet Name
A100	COVER SHEET
S100	FOUNDATION PLAN
S101	FIRST FLOOR FRAMING PLAN
S102	SECOND FLOOR FRAMING PLAN
S103	ROOF FRAMING PLAN
S500	GENERAL NOTES
S501	DETAILS
S502	DETAILS
S503	DETAILS
S504	DETAILS
S505	DETAILS

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



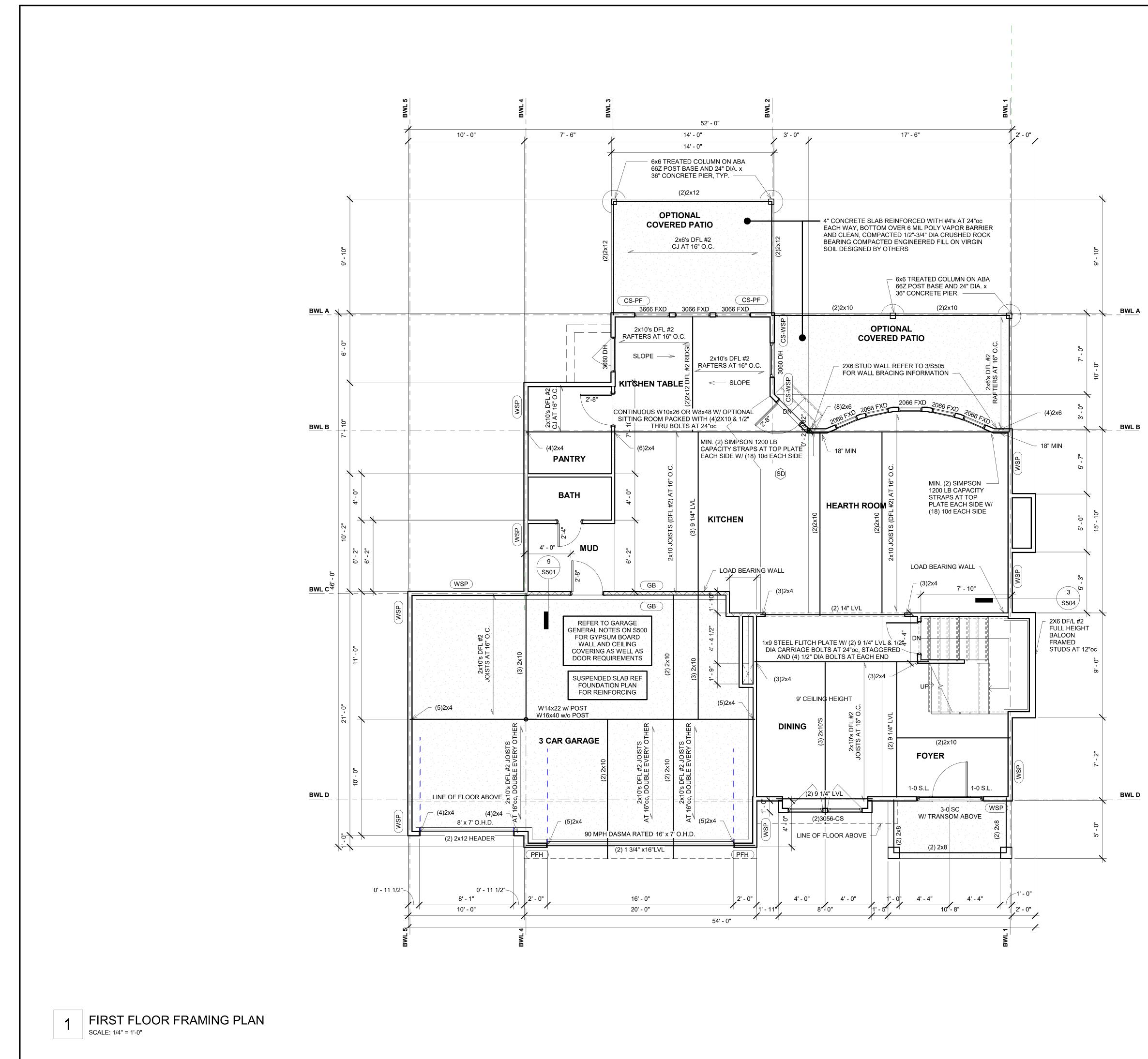






SHEET NUMBER

FOUNDATION PLAN



BRACED WALL METHODS

WSP - WOOD STRUCTURAL PANEL; WOOD STRUCTURAL PANEL SHEATHING WITH A THICKNESS NOT LESS THAN 3/8" FOR 16" STUD SPACING, FASTEN WITH 6d COMMON NAILS (.131"Øx2" LONG) AT 6"oc ALONG EDGES AND 12"oc AT INTERMEDIATE SUPPORTS, WHERE SHOWN ON PLANS. UNLESS OTHERWISE NOTED, PANEL WIDTH = 4'-0".

CS-WSP - CONTINOUSLY SHEATHED WOOD STRUCTURAL PANEL; WOOD STRUCTURAL PANEL SHEATHING WITH A THICKNESS NOT LESS THAN 3/8" FOR 16" STUD SPACING, FASTEN WITH 6d COMMON NAILS (.131"Øx2" LONG) AT 6"oc ALONG EDGES AND 12"oc AT INTERMEDIATE SUPPORTS, PLACED ON ALL SHEATHABLE SURFACES ON ONE SIDE OF THE BRACED WALL LINE INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS.

GB - GYPSUM BOARD; 1/2" GYPSUM BOARD WITH 13 GAGE, 1 3/8" LONG, 19/64" HEAD; 0.098" DIA, 1 3/8" LONG, ANNULAR-RINGED; 6d COOLER NAIL, 0.092" DIA, 1 7/8" LONG, 1/4" HEAD; OR GYPSUM BOARD NAIL, 0.0915" DIA, 1 7/8" LONG, 19/64' HEAD; TYPE W OR TYPE S SCREWS; AT 7"oc EDGES & 7"oc FIELD

PFH - PORTAL FRAME WITH HOLD-DOWNS; REF PORTAL FRAME WITH HOLD-DOWNS DETAIL

ABW - ALTERNATE BRACED WALL; REF ALTERNATE BRACED WALL DETAIL

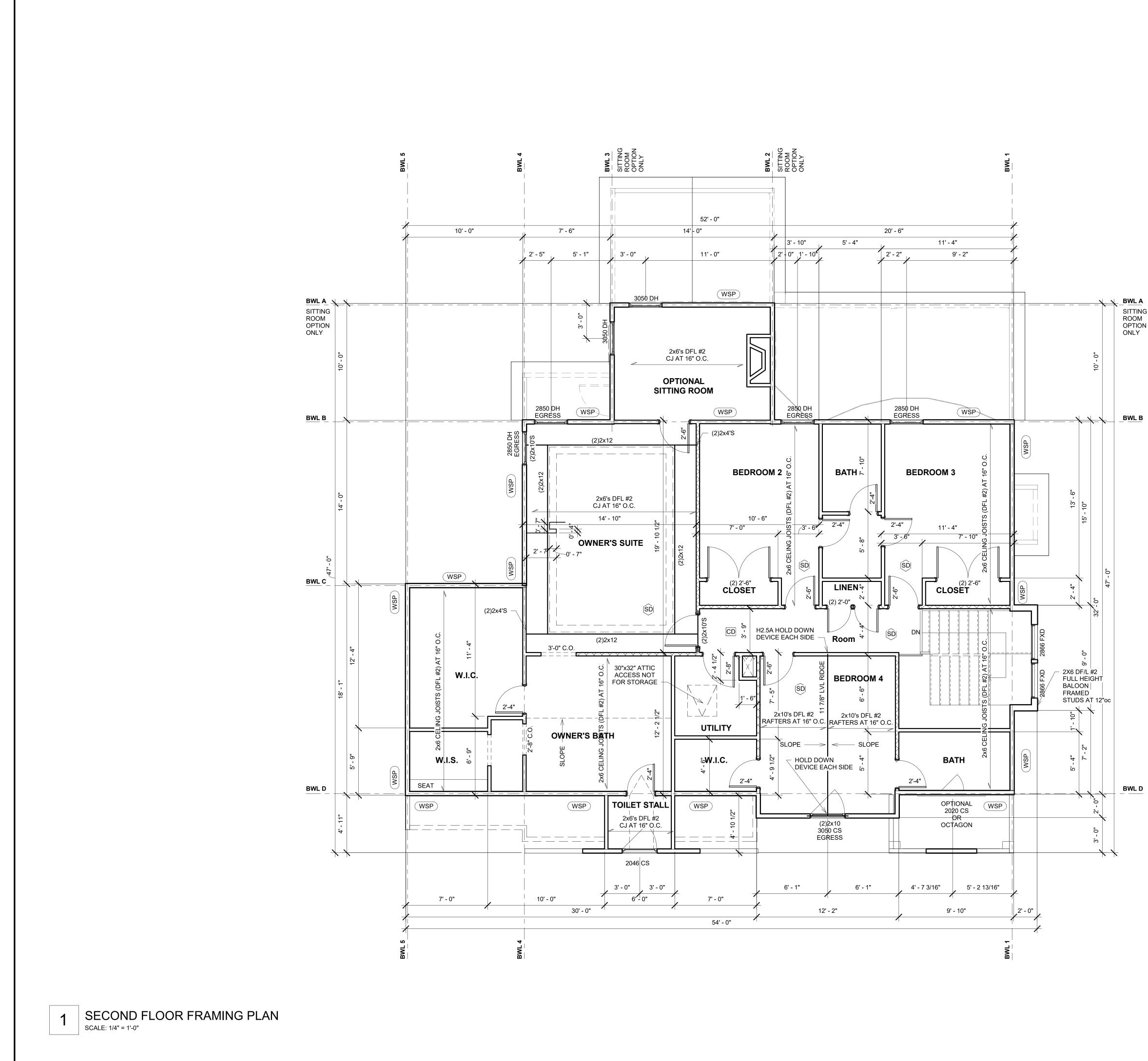
CS-PF - CONTINUOUSLY SHEATHED PORTAL FRAME; REF CONTINOUSLY SHEATHED PORTAL FRAME DETAIL

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.

BWL B

BWL D

<u>chmidt</u> E OF MISS BRANDON SCHWABAUER N NUMBER め PE-2015003020 orton \sim SW River Trail Road ummit, Missouri 6408 **INFORMATION** EXINGTON II THE Щ П 2529 3 ee's Si 0 **ISSUES & REVISIONS** # DATE DESCRIPTION 1 11/16/2020 PERMIT MLR DRAWN BY: CHECKED BY: BSS ISSUED FOR: SHEET TITLE **FIRST FLOOR** FRAMING PLAN SHEET NUMBER S101



BRACED WALL METHODS

SITTING

ROOM

OPTION

WSP - WOOD STRUCTURAL PANEL; WOOD STRUCTURAL PANEL SHEATHING WITH A THICKNESS NOT LESS THAN 3/8" FOR 16" STUD SPACING, FASTEN WITH 6d COMMON NAILS (.131"Øx2" LONG) AT 6"oc ALONG EDGES AND 12"oc AT INTERMEDIATE SUPPORTS, WHERE SHOWN ON PLANS. UNLESS OTHERWISE NOTED, PANEL WIDTH = 4'-0".

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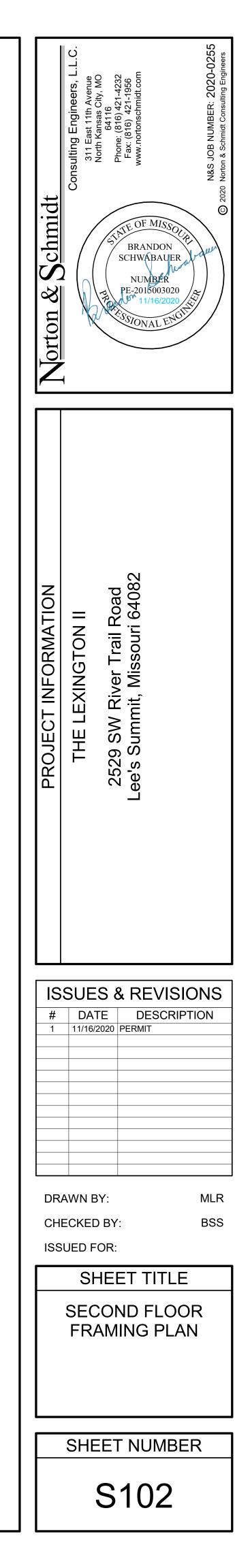
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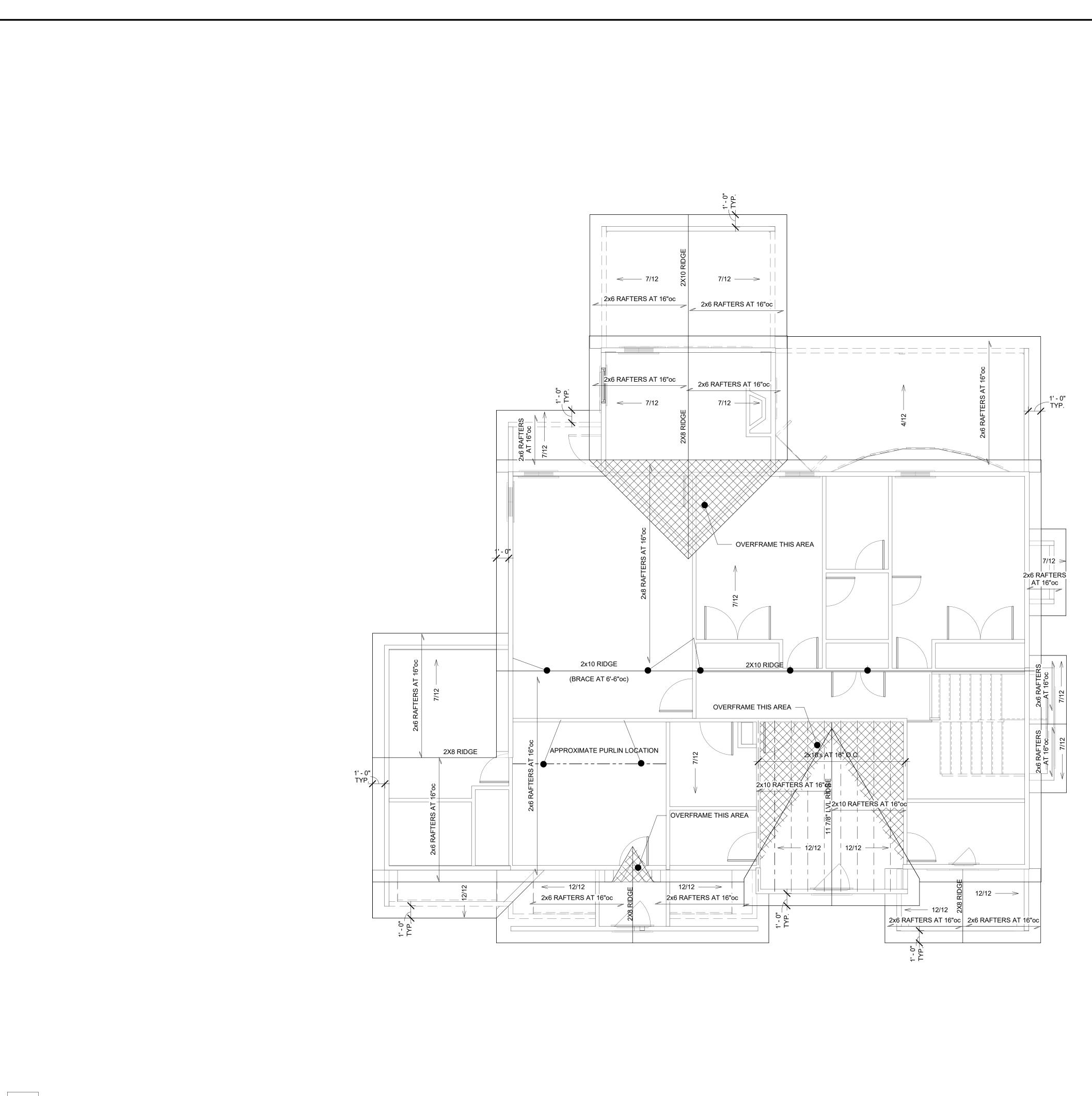
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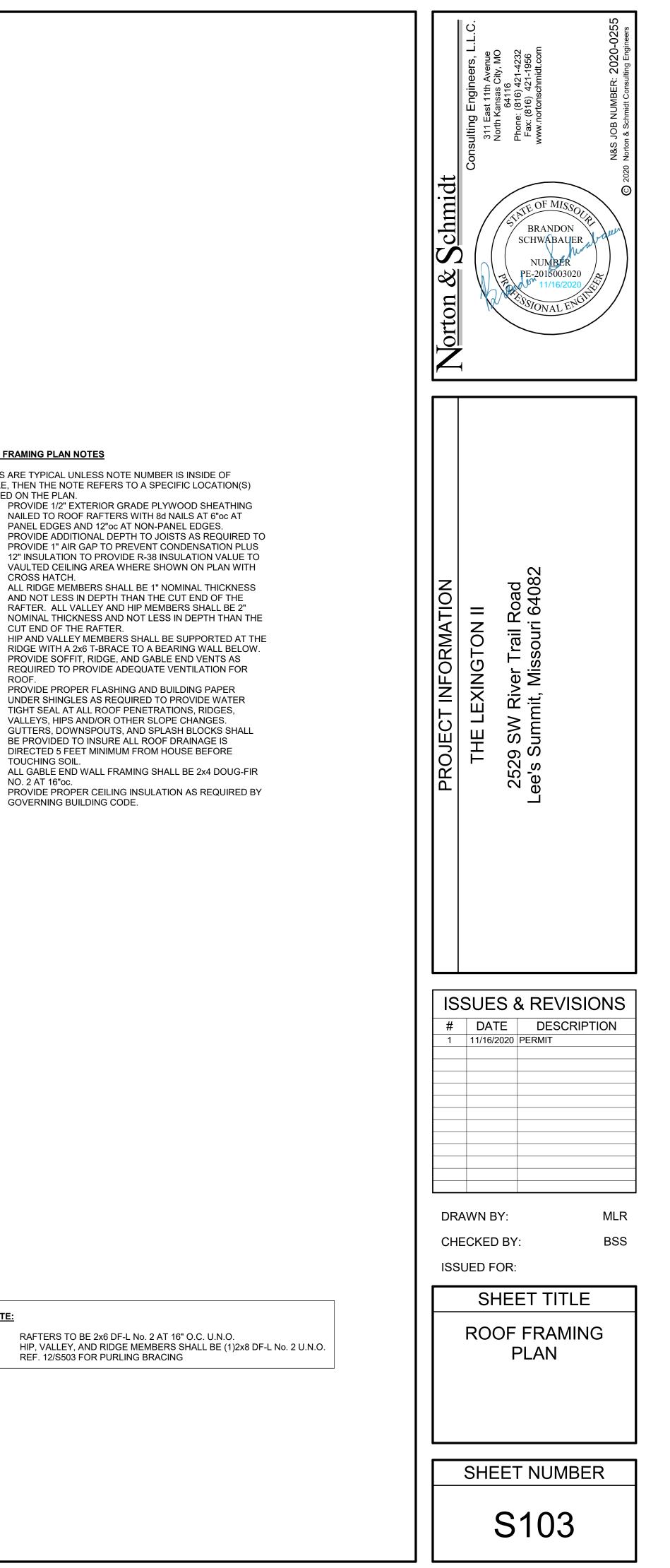
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BWL D



ROOF FRAMING PLAN SCALE: 1/4" = 1'-0"



ROOF FRAMING PLAN NOTES

NOTES ARE TYPICAL UNLESS NOTE NUMBER IS INSIDE OF CIRCLE, THEN THE NOTE REFERS TO A SPECIFIC LOCATION(S) MARKED ON THE PLAN.

- PROVIDE 1/2" EXTERIOR GRADE PLYWOOD SHEATHING 1. NAILED TO ROOF RAFTERS WITH 8d NAILS AT 6"oc AT
- PROVIDE ADDITIONAL DEPTH TO JOISTS AS REQUIRED TO 2. PROVIDE 1" AIR GAP TO PREVENT CONDENSATION PLUS 12" INSULATION TO PROVIDE R-38 INSULATION VALUE TO VAULTED CEILING AREA WHERE SHOWN ON PLAN WITH CROSS HATCH.
- ALL RIDGE MEMBERS SHALL BE 1" NOMINAL THICKNESS 3. AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. ALL VALLEY AND HIP MEMBERS SHALL BE 2" NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER.
- HIP AND VALLEY MEMBERS SHALL BE SUPPORTED AT THE 4. RIDGE WITH A 2x6 T-BRACE TO A BEARING WALL BELOW. 5. PROVIDE SOFFIT, RIDGE, AND GABLE END VENTS AS
- REQUIRED TO PROVIDE ADEQUATE VENTILATION FOR ROOF. PROVIDE PROPER FLASHING AND BUILDING PAPER 6.
- UNDER SHINGLES AS REQUIRED TO PROVIDE WATER TIGHT SEAL AT ALL ROOF PENETRATIONS, RIDGES, VALLEYS, HIPS AND/OR OTHER SLOPE CHANGES. 7.
- BE PROVIDED TO INSURE ALL ROOF DRAINAGE IS DIRECTED 5 FEET MINIMUM FROM HOUSE BEFORE TOUCHING SOIL. ALL GABLE END WALL FRAMING SHALL BE 2x4 DOUG-FIR 8.
- NO. 2 AT 16"oc. PROVIDE PROPER CEILING INSULATION AS REQUIRED BY 9. GOVERNING BUILDING CODE.

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

GENERAL NOTES

GOVERNING BUILDING CODE: 2012 INTERNATIONAL RESIDENTIAL CODE (IRC) AND ITS APPROPRIATE SUPPLEMENTS

DESIGN LOADS:

ROOF DEAD LOAD:
ROOF LIVE LOAD:
FLOOR DEAD LOAD:
FLOOR LIVE LOAD:
BEDROOMS:
ALL OTHER LIVING AREAS:
WIND LOADS:
SEISMIC LOADS:
ASSUMED ALLOWABLE SOIL BEARING PRESS

DRAWINGS

- ENSURE THE SAFETY OF ALL INDIVIDUALS INVOLVED.
- GOVERNING BUILDING CODE AND THE LOCAL MUNICIPALITY. 5. NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. HAS DESIGNED THE STRUCTURAL FLOOR FRAMING AND WALL

WRITTEN CONSENT.

PLANS SHALL RELIEVE NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. OF ALL RESPONSIBILITIES OF THE CONSEQUENCES.

- ARCHITECTURAL NOTES: 1. WATER RESISTIVE EXTERIOR WALL COVERING, FREE FROM HOLES AND BREAKS, SHALL BE APPLIED TO STUDS OR SHALL BE IN COMPLIANCE WITH SECTION R703.2
- CONNECTIONS. "UFER" GROUND SHALL BE PROVIDED PER IRC SECTION 3608.1
- MINIMUM FROM HOUSE BEFORE TOUCHING SOIL

STAIR NOTES:

- R3117
- COMPLY W/ 2012 IRC SEC. R312
- 34" AND 38" ABOVE THE STAIR NOSINGS.

GRASPABLE SHAPER PER SECTION R311.7.8.3. 6. SPIRAL STAIRS SHALL BE CONSTRUCTED PER SECTION R311.7.10.11.

- WITH A MINIMUM OPERABLE HEIGHT OF 24" AND WIDTH OF 21".
- CARBON MONOXIDE DETECTORS SHALL BE PROVIDED PER R31
- WINDOWS AND SAFETY GLAZING NOTES: 1. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE OF APPROVED SAFETY GLAZING
- WITHIN 36" 2. ALL WINDOWS SHALL MEET THE FALL PROTECTION REQUIREMENTS OF SECTION R312.2.
- GARAGE: GARAGE FLOORS SHALL SLOPE TOWARDS THE GARAGE DOORWAYS.
- DOORS BETWEEN THE GARAGE AND THE DWELLING SHALL BE A MINIMUM 1 3/8" SOLID CORE OR HONEY COMBED STEEL

- COUNTER BALANCE SYSTEM. GARAGE DOORS SHALL MEET THE REQUIREMENTS OF DASMA 90 MPH.

STRUCTURAL STEEL: 1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:

- a. STRUCTURAL STEEL b. MISCELLANEOUS STEEL C. HOLLOW STRUCTURAL STEEL (HSS) ASTM A500, GRADE B d STEEL PIPE
- ALL COLUMN ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36. SOCIETY. NO UNAUTHORIZED WELDS WILL BE ACCEPTED.
- ALL STRUCTURAL STEEL SHALL HAVE ONE COAT OF RUST INHIBITIVE PRIMER CONFORMING TO SPECIFICATIONS. FIELD TOUCHUP ALL UNPAINTED AREAS AND WELD AREAS.

	10 PSF
	20 PSF
	10 PSF
	30 PSF
	40 PSF
	VASD=90 MPH, EXPOSURE C
	SITE CLASS "B"
RE:	1500 PSF

FURNISH ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN OR INFERRED BY THESE 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 OR DISCREPANCIES IN THE DIMENSIONS OCCUR, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY 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 4. ALL MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE

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 PORTION OF THE DESIGN, PLANS OR SPECIFICATIONS AT ANY OTHER PROPERTY OR ADDRESS WITHOUT OUR PRIOR

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 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 NECESSARY TO BUILD THIS PROJECT WITHOUT FULL ENGINEERING AND DESIGN SERVICES, AND FOR THAT REASON THE CONTRACTOR OR HOME OWNER HAS RESTRICTED THE SCOPE OF PROFESSIONAL SERVICES. THE CONSTRUCTION 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 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 "BUILDER'S PLANS" TO THE FIELD CONDITIONS ENCOUNTERED AND MAKE LOGICAL ADJUSTMENTS IN FIT, FORM, DIMENSION AND QUANTITY. 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 INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, AND PLUMBING CODE REQUIREMENTS (WHICH IS EXCLUDED FROM THESE PLANS). IN THE EVENT ADDITIONAL DETAIL OR GUIDANCE IS NEEDED BY THE CONTRACTOR OR HOMEOWNER FOR CONSTRUCTIÓN 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

SHEATHING OF ALL EXTERIOR WALLS. WRAP SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND 2. BUILDING SHALL COMPLY WITH SECTIONS 802.3 AND 802.3.1 OF THE 2012 IRC FOR RAFTER AND CEILING JOIST

4. GUTTERS, DOWNSPOUTS, AND SPLASH BLOCKS SHALL BE PROVIDED TO INSURE ALL ROOF DRAINAGE IS DIRECTED 5 FEET

MAXIMUM RISER AT STAIRWAYS IS 7 3/4" AND MINIMUM TREAD IS 10" WITH A MINIMUM 6'-8" HEADROOM, PER 2012 IRC SEC. 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 3. ENCLOSE ACCESSIBLE SPACE BENEATH STAIRS SHALL 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 CONSISTING OF 3 OR MORE RISERS SHALL HAVE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 5. HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1 1/4" MINIMUM TO 2" MAXIMUM OR OTHER APPROVED

EMERGENCY EGRESS NOTES: 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY ESCAPE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND BASEMENT SHALL BE PROVIDED WITH PROPER EMERGENCY AND RESCUE AND RESCUE OPENINGS 1. ALL SLEEPING ROOMS AND ROOMS A PER 2012 IRC SEC R310. PROVIDE (1) WINDOW IN EACH BEDROOM THAT HAS A MINIMUM OPERABLE AREA OF 5.7 SQ. FT. 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 ACUATION OF ONE ALARM ACTIVATES ALL OTHERS AND BE HARD WIRED WITH A BATTERY BACKUP, PER 2012 IRC SEC. R314 AND NFPA 72.

MATERIALS: GLASS IN STORM DOORS: INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR: WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR. ENCLOSURES FOR SPAS. TUBS. SHOWERS AND WHIRLPOOLS; GLAZING IN FIXED OR OPERABLE PANELS EXCEEDING 9 SQ. FT. AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE

DOOR OR A 20 MINUTE FIRE RATED DOOR WITH A SELF-CLOSING AND SELF-LATCHING DEVICE. 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 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 2012 IRC SEC. R309. 4. GARAGE DOOR AND FRAME (H-FRAME) FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2X6 VERTICAL JAMES RUNNING FROM THE FLOOR TO CEILING ATTACHED WITH 1 3/4"X0.12" NAILS @ 7"OC STAGGERED WITH (7) 3 1/4"X0.102" NAILS THRU THE JAMB INTO THE HEADER, MINIMUM 2X8 HEADER FOR ATTACHMENT FOR BUILDING SHALL COMPLY WITH THE REQUIREMENTS FOR A SELF CLOSING DOOR BETWEEN RESIDENCE AND GARAGE.

> ASTM A992, FY = 50 KSI ASTM A36

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 UNLESS SPECIFIC CONNECTIONS ARE SHOWN ON THE DRAWINGS. CONNECTIONS SHALL BE DESIGNED TO 50% U.D.L. OR THE REACTION PROVIDED ON THE DRAWINGS, WHICH EVER IS GREATER. CONNECTIONS SHALL BE WELDED OR BOLTED PER AISC STEEL CONSTRUCTION MANUAL 13TH EDITION. BOLTS SHALL BE ASTM A325N

WELDING SHALL CONFORM TO THE LATEST PUBLICATION OF APPLICABLE CODES SET FORTH BY THE AMERICAN WELDING PROVIDE 30# FELT BOND BREAK AROUND ALL STEEL COLUMNS WHERE IN CONTACT WITH SLAB-ON-GRADE. ALL EXTERIOR STEEL EXPOSED TO THE ELEMENTS SHALL BE HOT DIPPED GALVANIZED UNLESS NOTED OTHERWISE.

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 STUD GRADE 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 MANUFACTURER'S RECOMMENDATIONS FOR NAILING AND CONNECTIONS SHALL BE FOLLOWER
- 3. FLOOR JOISTS BELOW PARTITION WALLS RUNNING PARALLEL TO THE JOIST SPAN SHALL BE DOUBLED. ALL DOUBLED MEMBERS SHALL BE NAILED TOGETHER WITH 16D NAILS 16" ON CENTER IN TWO ROWS STAGGERED OR PER MANUFACTURER SPECS
- SOLID BLOCKING BETWEEN FLOOR JOISTS SHALL BE INSTALLED WHERE JOISTS BEAR ON TOP OF BEAMS OR HEADERS AND BELOW POINT LOADS. ALL SOLID BLOCKING AND RIM JOIST MATERIAL SHALL BE THE SAME SIZE AND GRADE AS THE
- ALL FLOOR 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
- BEAR ON LOAD BEARING WALLS (WALLS LOCATED DIRECTLY ABOVE A BEAM LINE OR CONTINUOUS FOOTING)! ALL CONCENTRATED LOADS SHALL BE CARRIED THROUGH THE FLOOR SYSTEM THICKNESS WITH SOLID BLOCKING OR WITH 2X4 STUB COLUMNS (SQUASH BLOCKS) THAT TRANSFER THE LOAD DOWN TO THE SUPPORT WALL OR BEAM BELOW. ALL NAILING NOT INDICATED 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 SUCH AS TO AVOID THE UNUSUAL SPLITTING OF THE WOOD ALL NON-LOADBEARING STUD WALLS 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! SHEATHING FOR HORIZONTAL DIAPHRAGMS SHALL BE EXTERIOR GRADE, C/D, STRUCTURAL GROUP II OR BETTER. ROOF AND WALL FRAMING SHALL BE OF DOUGLAS FIR-LARCH OR SOUTHERN PINE. PROVIDE SOLID BLOCKING AT ALL PANEL EDGES UNLESS OHTERWISE NOTED. WHERE PANELS ARE APPLIED ON BOTH FACES OF A WALL, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS
- 10. 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 STAGGER
- END JOINTS 4'-0". 12. STANDARD WASHERS SHALL BE USED WITH ALL BOLTS FASTENING WOOD MEMBERS. 13. ALL SAWN LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE
- TREATED. . 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 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 PARTITIONS PROVIDE CONTINUOUS STRONG BACKS 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): 2X8'S AT 16" O.C. - 12'-7"
- 2X10'S AT 16" O.C. 15'-5" 2X10'S AT 12 O.C. - 16'-10" 2X12'S AT 16" O.C. - 17'-10"
- CEILING JOISTS (C.J.'S) ARE DF/L #2, AT 16" O.C., WITH AN ALLOWABLE SPAN AS FOLLOWS, OR AS SHOWN ON PLANS: 2X6'S AT 16" O.C. - 12'-10" 2X8'S AT 16" O.C. - 16'-3"
- 2X10'S AT 16" O.C. 19'-10" 2X12'S AT 16" O.C. - 22'-0"
- 18. ROOF RAFTERS (R.R.'S) ARE DF/L #2, WITH AN ALLOWABLE RAFTER SPAN AS FOLLOWS: 2X6'S AT 24" O.C. - 10'-0" 2X6'S AT 16" O.C. - 12'-0"
- 2X8'S AT 24" O.C. 12'-4' 2X8'S AT 16" O.C. - 15'-1"
- 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, U.N.O 21. ALL LIGHT GAGE METAL FRAMING ACCESSORIES NOTED SHALL BE AS MANUFACTURED BY "SIMPSON STRONG TIE" OR APPROVED EQUAL, ATTACH FRAMING ACCESSORIES TO WOOD FRAMING IN ACCORDANCE WITH MANUFACTURERS
- RECOMMENDATIONS 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 NAILS AT 6" O.C. AT ALL PANEL EDGES AND AT 12" O.C. AT INTERMEDIATE SUPPORTS. 24. ALL EXTERIOR WOOD WALL FRAMING SHALL BE 2X6 DOUG-FIR NO. 2 AT 16"OC, UNO.
- ALL INTERIOR BEARING WALL FRAMING SHALL BE 2X4 DOUG-FIR NO. 2 AT 16"OC. UNO.
- 26. WOOD TRUSSES AND THEIR CONNECTIONS SHALL BE DESIGNED BY THE 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 GOVERNING BUILDING CODE.
- . TEMPORARY STABILITY 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.
- HE BUILDING THERMAL ENVELOPE SHALL BE SEALED WITH AN AIR BARRIER PER 2012 IRC SEC N1102. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE 9C-RATED, LEAKAGE RATED AND SEALED TO THE GYPSUM WALLBOARD AS REQUIRED PER N1102.4.4
- PROGRAMMABLE THERMOSTATS SHALL BE INSTALLED AS REQUIRED PER N1103.1.1. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2% AIR LEAKAGE RATE PER N1103.2.2
- BUILDING CAVITIES USED AS RETURN AIR PLENUMS SHALL BE SEALED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE AS REQUIRED PER N1103.2.3. BUILDING CAVITIES IN A THERMAL ENVELOPE WALL SHALL NOT BE USED AS RETURN AIR PLENUMS UNLESS THE REQUIRED **INSULATION BARRIER IS MAINTAINED PER M1601.1.1.**
- HOT WATER PIPES SHALL BE INSULATED AS REQUIRED PER N1103.4. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR AS REQUIRED PER M1507.2.
- MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM AS REQUIRED PER M1503 4
- 10. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER M1601.6. 11. MINIMUM MECHANICAL EFFICIENCY RATING FOR AC EQUIPMENT IS 13 SEER AS REQUIRED PER 2012 IRC 12. MINIMUM MECHANICAL EFFICIENCY RATING FOR FORCED AIR FURNACE IS 78% AS REQ'D PER 2012 IRC.

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-8/R-13	(i)
FLOOR OVER UNHEATED SPACE	R-19	
	R-30	
DUCTS OUTSIDE OF THE CONDITIONED SPACE	R-8	
BASEMENT WALL	R-10/R-13	3 (c)
SLAB (R VALUE/DEPTH)	R-10/2ft	(d)
CRAWLSPACE WALL W/ FLOOR INSULATION	R-10/R-13	3 (c)
CRAWLSPACE WALL W/O FLOOR INSULATION	R-19	

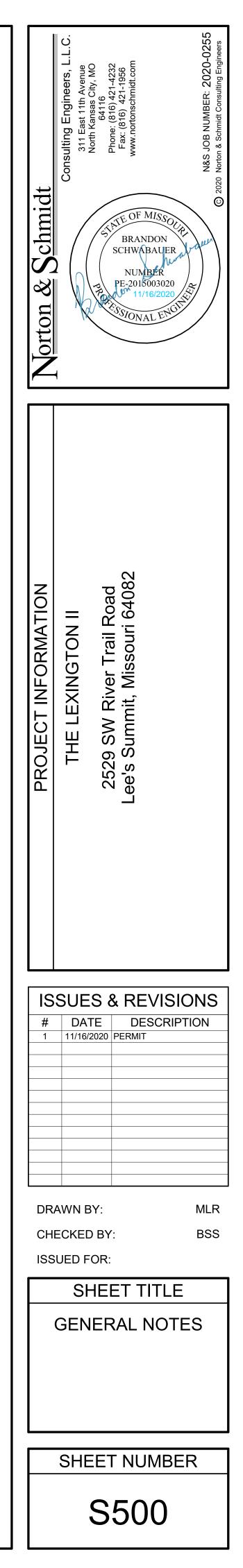
- a. R VALUES ARE MINIMUMS. U FACTORS ARE MAXIMUMS. WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL NOT BE LESS THAN THE R-VALYUE SPECIFIED IN THE TABLE THE FENESTRATION U - FACTOR EXCLUDES SKYLIGHTS.
- THE FIRST R VALUE APPLIES TO CONTINUOUS INSULATION, THE SECOND TO FRAMING CAVITY INSULATION; EITHER INSULATION MEETS THE REQUIREMENT.
- 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. THERE ARE NO SHGC REQUIREMENTS IN THE MARINE ZONE.
- BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED BY FIGURE N1101.10 AND TABLE 1101 10 OR INSULATION SUFFICIENT TO FILL THE CAVITY, R - 19 MINIMUM.
- 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 40 PERCENT OR LESS OF THE EXTERIOR, CONTINUOUS INSULATION R-VALUE SHALL BE PERMITTED TO BE REDUCED BY NO MORE THAN R-3 IN THE LOCATIONS WHERE STRUCTURAL SHEATHING IS USED - TO MAINTAIN A CONSISTENT TOTAL SHEATHING THICKNESS.
- i. THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF OF THE INSULATION IS ON THE INTERIOR OF THE MASS WALL.

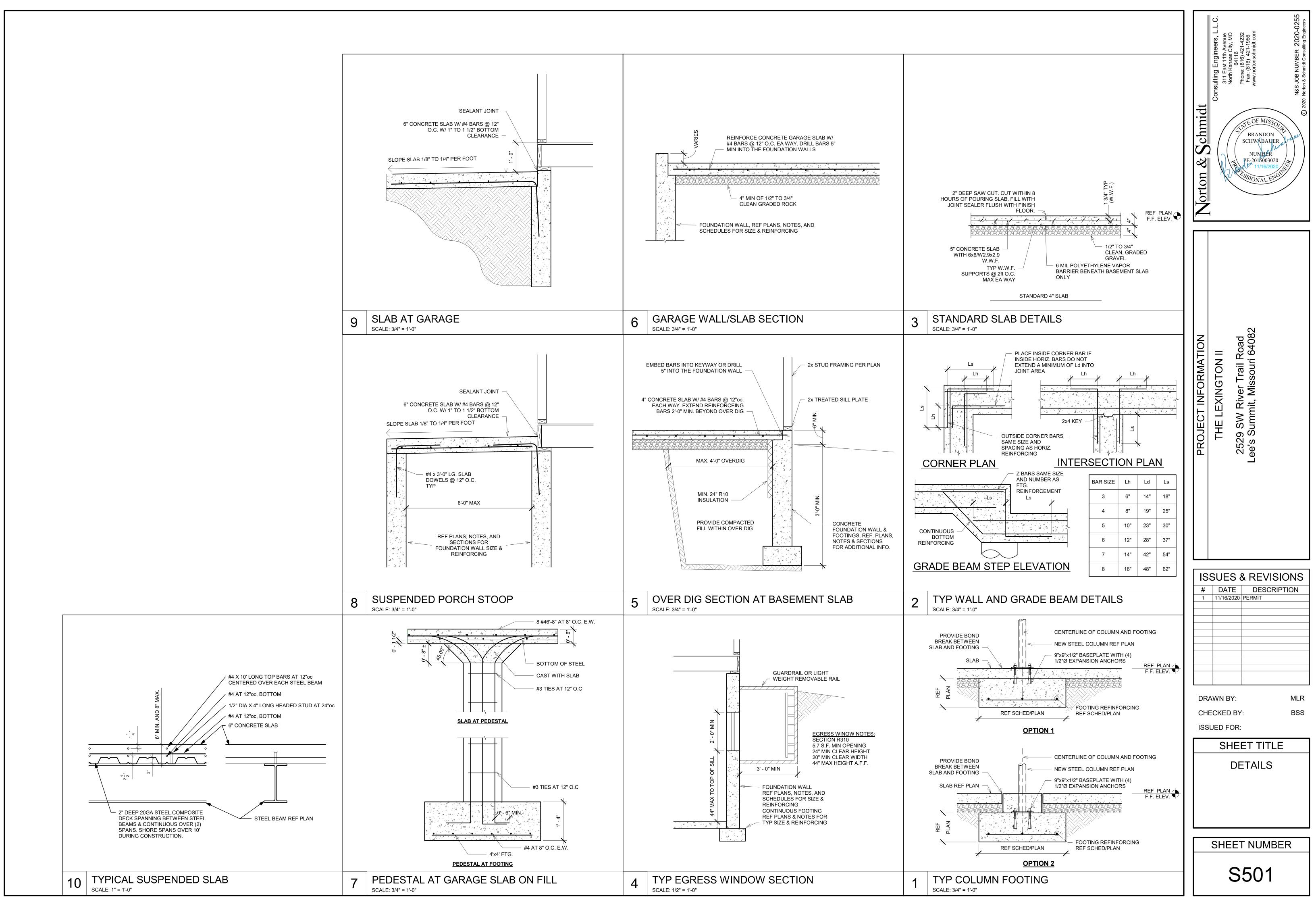
ABBREVIATIONS LEGEND

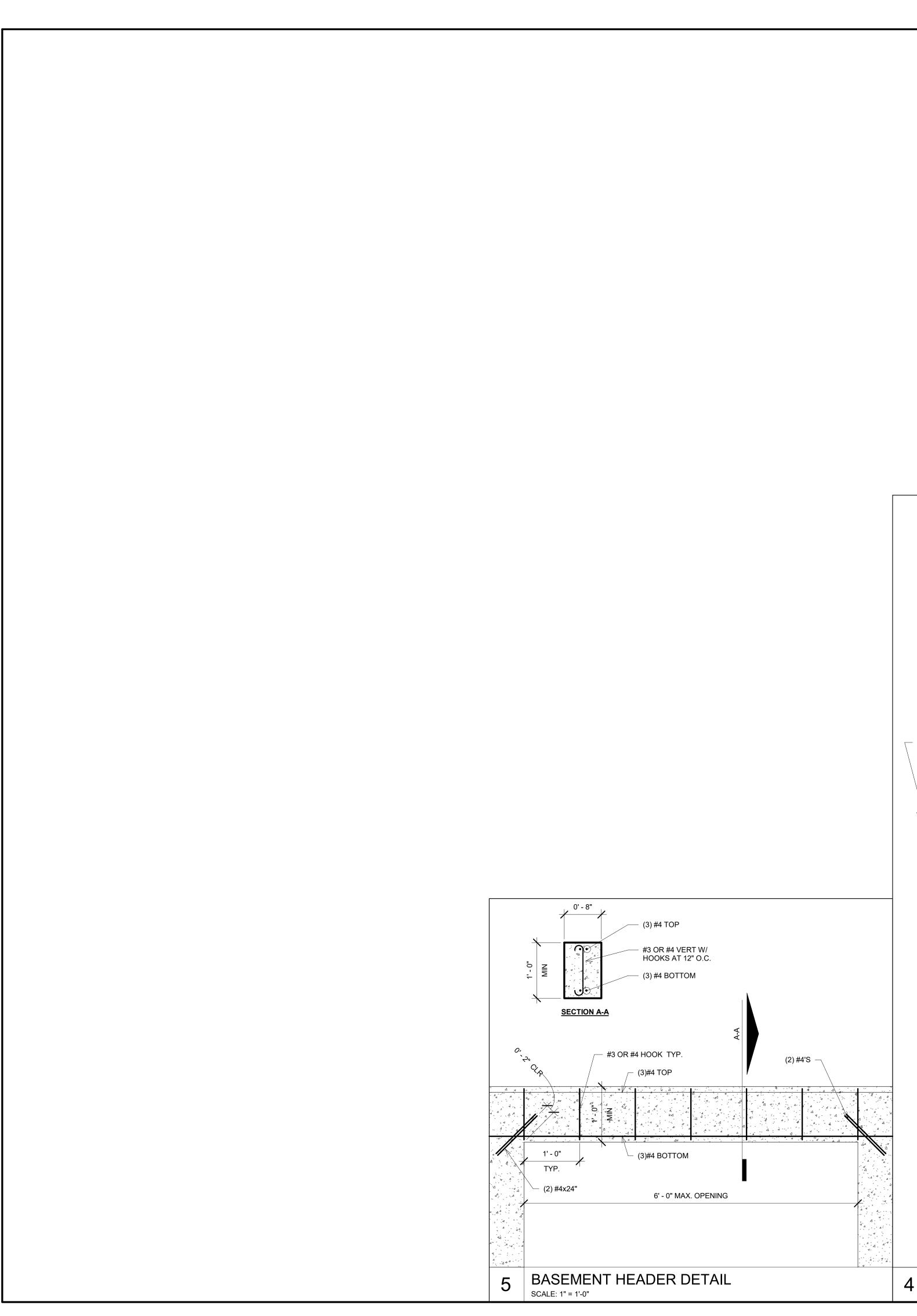
IER INCLUSIONAFF INCLIF INCLIFSIONAFF INCLIF INCLIFSIONAFF INCLIFSIONAFF INCLIFSIONAFF INCLIFSIONAFF INCLIFSIONAFF INCLIFSIONAFF INCLIFSIONAFF INCLIFSIONAFF INCLIFSIONAFF INCLIF INCLIF INCLIFSIONAFF INCLIFSIONAFF INCLIFSIONAFF INCLIFSIONAFF	MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS METAL NUMBER NEAR SIDE NOT TO SCALE ON CENTER OPPOSITE HAND POWDER ACTUATED FASTENERS POUNDS PER CUBIC FEET PLATE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH QUANTITY REFERENCE REINFORCING REQUIRED REVERSE ROUGH OPENING SIMILAR TOP AND BOTTOM TOP OF FOOTING STEP THICK TOP OF TOP OF CONCRETE TOP OF FOOTING TOP OF STEEL TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE VERTICAL WIDTH WALL BRACE METHOD WORK POINT
VWF	WALL STEP WELDED WIRE FABRIC

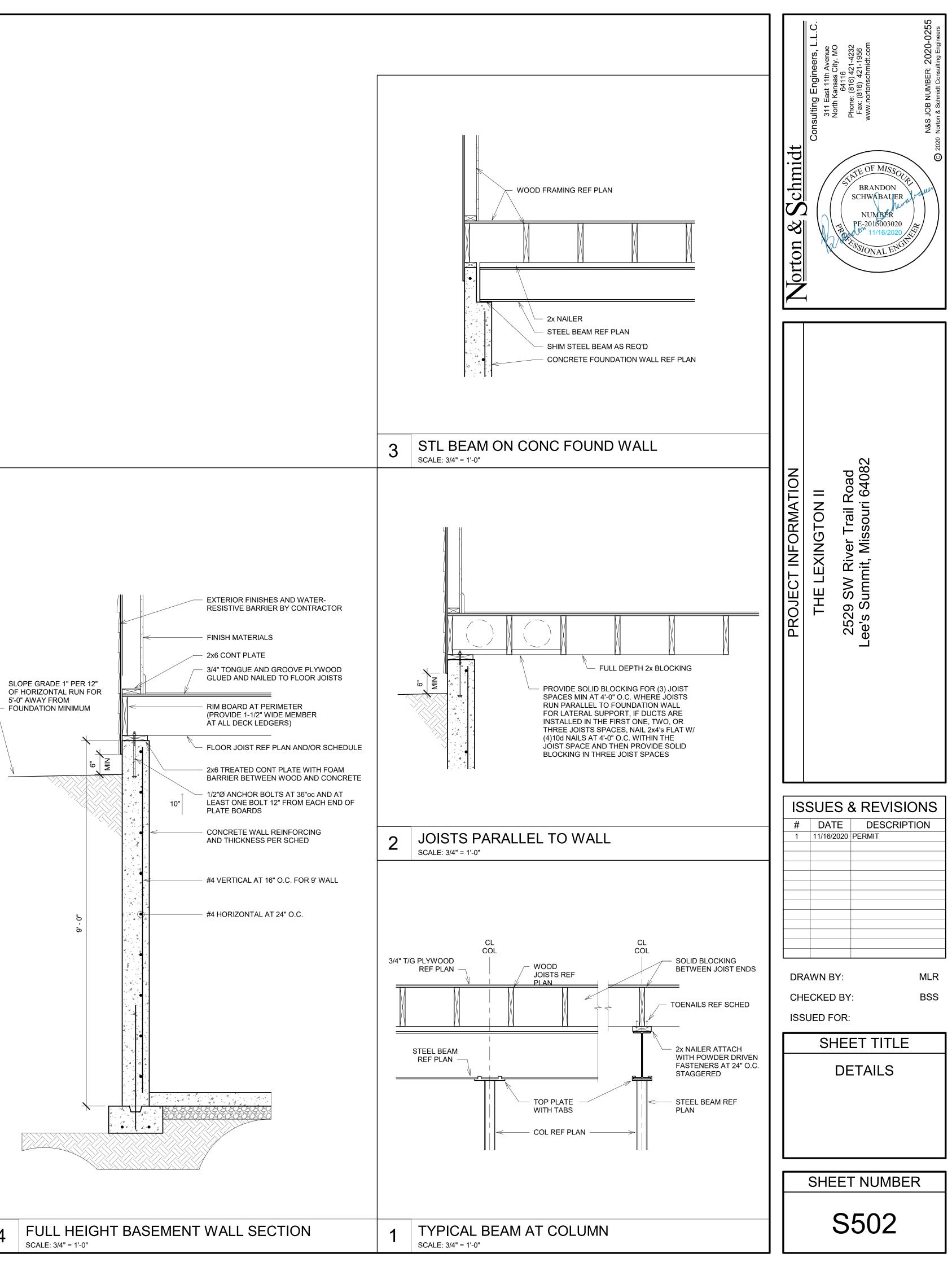
SYMBOLS LEGEND

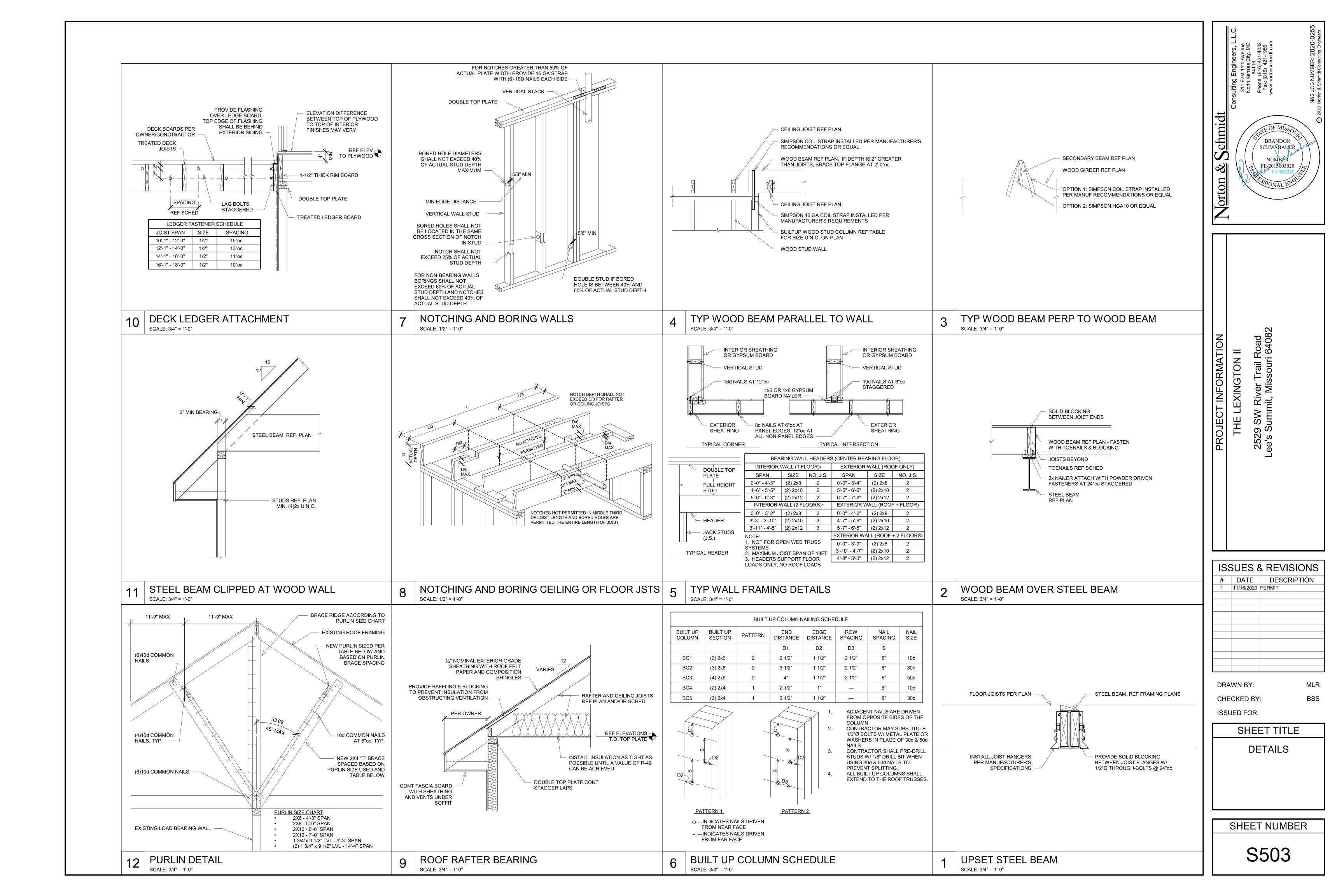
	ELEVATION DESIGNATIO N		REVISION DESIGNATION
	CUT SYMBOL	(22)	PLAN NOTE SYMBOL
TYPE NO/SHEET	SECTION CUT	1	SLAB JOINT DESIGNATION
TYPE NO/SHEET	ELEVATION DETAIL	→ 100'-0"	SPOT ELEVATION
	BLOWUP DETAIL	4. <i>A</i> ,	CONCRETE WALL
WSP	WOOD STRUCTURAL PANEL		WOOD NON-LOAD BEARING STUD WALL
ABW	ALTERNATE BRACED WALL PANEL		BRACED WALL PANEL
PFH	PORTAL FRAME WITH HOLD-DOWNS		BRACED WALL LINE
PFG	PORTAL FRAME AT GARAGE		WOOD STUD BEARING WALL
SD	SMOKE DETECTOR		
CD	CARBON-MONOXIDE DETECTOR		











					G	ROUN	D SNC	W LO	AD (PS	SF)				GRADE	MEMBER SIZE / SPACING
			3	80			5	50			7	70		#2 DF/L	2x6 / 16"oc
						RO	OF SP	AN (FE	EET)					#2 D17E	2,07 10 00
RAFTER	RAFTER	12	20	28	36	12	20	28	36	12	20	28	36	#2 DF/L	2x8 / 16"oc
SLOPE	SPACING	R		D NUMB	ER OF 1	6d COM	MON NA	AILS(a,b)	PER HE	EL JOIN		ES (c,d,	e,f)	#2 DF/L	2x10 / 16"oc
3:12	12 16 24	4 5 7	6 8 11	8 11 16	11 14 21	5 6 9	8 11 16	12 15 23	15 20 30	6 8 12	11 14 21	15 20 30	20 26 39	#2 DF/L	2x10 / 10 00 2x12 / 16"oc
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 20 29		OVE ARE FOR RC RE: TABLES R80
5:12	12 16 24	3 3 4	4 5 7	5 7 10	7 9 13	3 4 6	5 7 10	7 9 14	9 12 18	4 5 7	7 9 13	9 12 18	12 16 23	SPAN LES	F FRAMING ON TH S THAN 42' ON IN ND CAN BE CONN
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 4 5	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 3 4	4 5 7	5 7 10	7 9 13		k
12:12	12 16 24	3 3 3	3 3 3	3 3 4	3 4 6	3 3 3	3 3 4	3 4 6	4 5 8	3 3 3	3 4 6	4 5 8	5 7 10		CC
AILING REQUI EEL JOINT CO IDGE BEAM. /HEN INTERM /ALL, THE TAE	SHALL BE PERM REMENTS SHAL DNNECTIONS AR EDIATE SUPPOR BULATED HEEL J LLY TO THE REE	L BE PE E NOT I RT OF T OINT C	ERMITTE REQUIR HE RAFT ONNECT	ED TO BI ED WHE FER IS P FION RE	E REDU(N THE F ROVIDE	CED 25% RIDGE IS ED BY VE	6 IF NAII 8 SUPPC ERTICAL	LS ARE (DRTED E	CLINCHE SY A LOA S OR PL	AD-BEAF JRLINS 1	ΓΟ Α LO	AD-BEA	,		RII ST R8

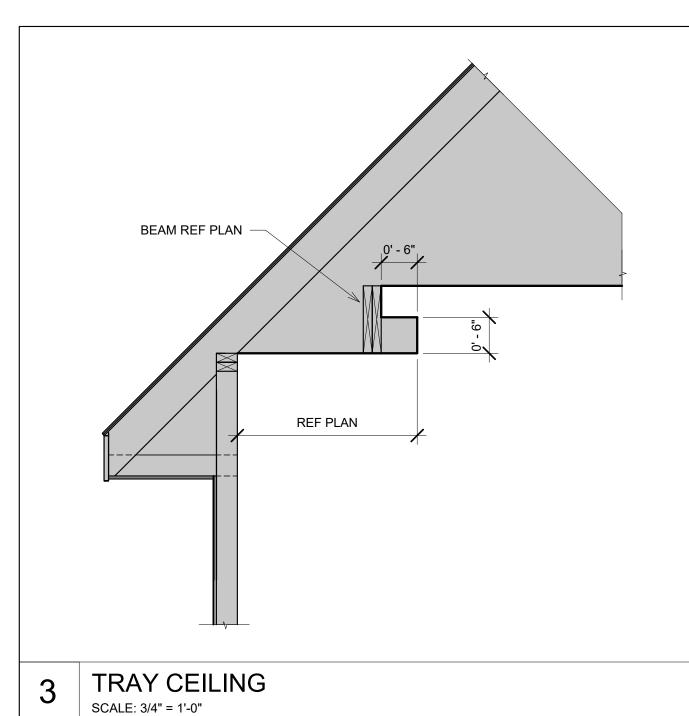
TAKEN AS THE TABULATED HEEL JOINT CONNECTION REQUIREMENT FOR TWO-THIRDS OF THE ACTUAL RAFTER-SLOPE. TABULATED HEEL JOINT CONNECTION REQUIREMENTS ASSUME THAT CEILING JOISTS OR RAFTER TIES ARE LOCATED AT THE BOTTOM OF THE ATTIC SPACE. WHEN CEILING JOISTS OR RAFTER TIES ARE LOCATED HIGHER IN THE ATTIC, HEEL JOINT CONNECTION REQUIREMENTS SHALL BE INCREASED BY THE FOLLOWING FACTORS:

Hc/Hr	HEEL JOINT CONNECTION ADJUSTMENT FACTOR
1/3	1.5
1/4	1.33
1/5	1.25
1/6	1.2
I/10 OR LESS	1.11

WHERE:

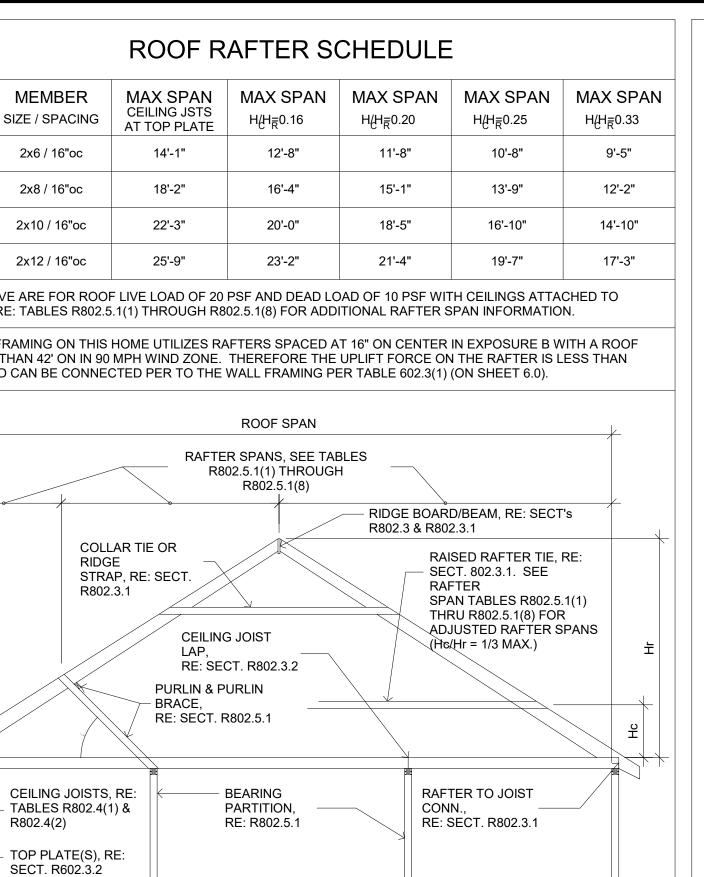
Hc= HEIGHT OF CEILING JOISTS OR RAFTER TIES MEASURED VERTICALLY ABOVE THE TOP OF THE RAFTER SUPPORT WALLS.

Hr=HEIGHT OF ROOF RIDGE MEASURED VERTICALLY ABOVE THE TOP OF THE RAFTER SUPPORT WALLS.



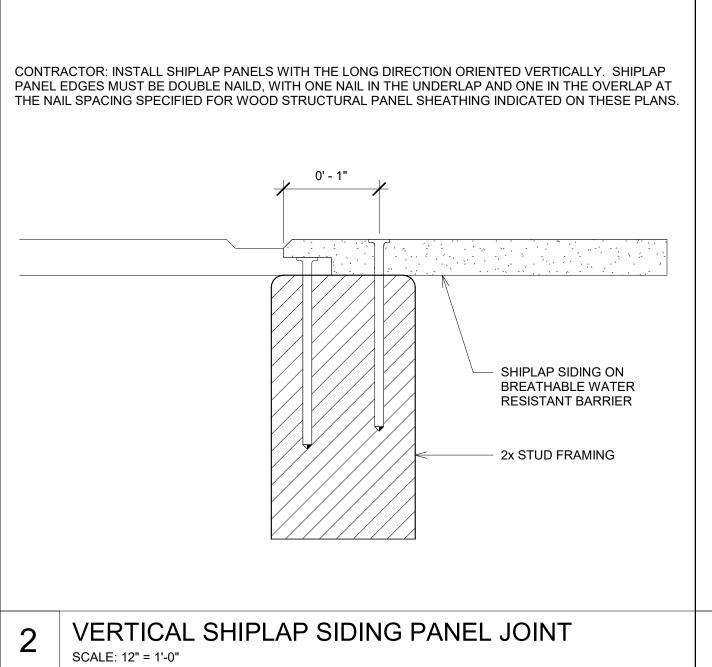
R802.4(2)

BEARING WALL



BEARING WALL

Description of Building Elements	Number & Type of Fastener (a,b,c)	Spacing of Fasteners
Ro	oof	
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 $1 \frac{1}{4}$ " x 20 gage ridge strap	3 - 10d (3" x 0.128")	
Rafter or roof truss to plate, toe nail	3 - 16d box nails (3½" x 0.135") or 3 - 10d common nails (3" x 0.148")	2 toe nails on one side and 1 toe nail on oppos side of each rafter or trus
Roof rafters to ridge, valley or hip rafters:		
toe nail face nail	4 - 16d (3½" x 0.135") 3 - 16d (3½" x 0.135")	
	/all	
Built-up studs	10d (3" x 0.128")	24" o.c.
Abutting studs at intersecting wall corners, face nail	l 16d (3 1/2" x 0.135")	12" o.c.
Built up header, two pieces with $\frac{1}{2}$ " spacer	16d (3½" x 0.135")	16" o.c. along ea. edg
Continued header, two pieces	16d (3½" x 0.135")	16" o.c. along ea. edg
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 (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"	
Flo	oor	
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 I	Building Elements	Number & Typ Fastener (a,b		cing of Fasteners
uilt-up girders and bea	Floor (Co ams, 2-inch lumber layers	ontinued) 10d (3" x 0.12	28") 32" o stagg	a. layer as follows: .c. at top & bott. & ered. Two nails at and at ea. splice
edger strip supporting	joists or rafters	3 - 16d (3½" x 0.		ach joist or rafter
escription of Building Materials	Description of Faster	ner (b,c,e)	Spacin Edges (i)	g of Fasteners Intermediate Supports (c,e)
Wood Structura	al Panels, subfloor, roof and v wa		raming, and par	
s" - 1/2"	sheathing 6d common (2"x0.113") nail	(subfloor, wall)(i)	6"	12" (g)
3 '2 32" - 1"	8d common (2½" x 0.131 8d common (2½" x 0.1		6"	12" (g)
1 ₈ " - 11 ₄ "	10d common (3" x 0	148") nail or	6"	12"
	8d (2 ¹ / ₂ " x 0.131") defo Other wall s			
" structural cellulosic perboard sheathing	$1^{\frac{1}{2}}$ galvanized roofing na (21/2" x 0.131") nail; staple	il 8d common 16 ga., 1½" long	3"	6"
₃₂ " structural ellulosic fiberboard	$1^{3/4}$ " galvanized roofing $(2^{1/2}$ " x 0.131") nail; staple		3"½	6"
heathing g gypsum sheathing	1 ¹ / ₂ " galvanized roofing galvanized, 1 ¹ / ₂ " long; 1	nail; staple	7"	7"
d)	Type W or 1 ³ ₄ " galvanized roofing	S nail; staple		
gypsum sheathing ל)	galvanized, 18" long; 15 Type W or	5 ₈ " screws, S	7"	7"
	structural panels, combinatio		-	
4" or less	8d common (2½" x 0. 8d common (2½" x 0.1	.131") nail	6"	12"
<u>,</u> " - 1"	8d deformed (2 ¹ / ₂ " x 0.	.120") nail	6"	12"
/8" - 1¼"	10d common (3" x 0.1 8d deformed ($2\frac{1}{2}$ " x 0		6"	12"
Nails shall be space greater. Four-foot-by-8-food Spacing of fastene For regions having shall be used for at minimum 48-inch d feet maximum. For regions having	ge wire and have a minimum ced at not more than 6" on ce t or 4-foot-by-9-foot panels s ers not included in this table s g basic wind speed of 110 mp taching plywood and wood s listance from gable end walls g a basic wind speed of 100 m able end wall framing shall be	⁷ / ₁₆ -inch on diame enter at all supports hall be applied ver shall be based on oh or greater, 8d de tructural panel roo s, if mean roof heig mph or less, nails f	ter crown width s where spans a tically. Table R602.3(2) eformed (2 ½" x f sheathing to fr ht is more than	are 48 inches or 0.120) nails aming within 25 feet, up to 35 od structural panel
 Nails shall be space greater. Four-foot-by-8-foot Spacing of fastened For regions having shall be used for at minimum 48-inch d feet maximum. For regions having roof sheathing to ga speed is greater tha shall be spaced 6 in walls; and 4 inches Gypsum sheathing 253. Fiberboard sh Spacing of fasteners or members and requi sheathing panel edge blocking. Blocking of need not be provide 	ced at not more than 6" on ce t or 4-foot-by-9-foot panels sl ers not included in this table s g basic wind speed of 110 mg taching plywood and wood s listance from gable end walls g a basic wind speed of 100 r able end wall framing shall be an 100 mph, nails for attachin oches on center for minimum on center to gable end wall f g shall conform to ASTM C 1 eathing shall conform to ASTM C 1 eathing shall conform to ASTM n floor sheathing panel edges red blocking and at all floor p ges applies to panel edges su of roof or floor sheathing pan ed except as required by othe	$\sqrt[7]{16}$ -inch on diame enter at all supports hall be applied ver shall be based on T oh or greater, 8d do tructural panel roo s, if mean roof heig mph or less, nails f e spaced 6 inches o ag panel roof sheat 48-inch distance f raming. 396 and shall be in TM C 208. s applies to panel e perimeters only. Sp upported by framin iel edges perpendicer provisions of this	ter crown width s where spans a tically. Fable R602.3(2) eformed (2 ½" x f sheathing to fr ht is more than for attaching wo on center. Whe hing to intermed from ridges, eav nstalled in accor edges supported pacing of fasten ig members and cular to the fram	eters of 0.142 inch are 48 inches or 0.120) nails aming within 25 feet, up to 35 od structural panel in basic wind diate supports es and gable end dance with GA d by framing ers on roof I required hing members
 Nails shall be space greater. Four-foot-by-8-foot Spacing of fastener For regions having shall be used for at minimum 48-inch d feet maximum. For regions having roof sheathing to ga speed is greater tha shall be spaced 6 in walls; and 4 inches Gypsum sheathing 253. Fiberboard sh Spacing of fasteners or members and requi sheathing panel edg blocking. Blocking of need not be provide supported by framin 	ced at not more than 6" on ce t or 4-foot-by-9-foot panels s pass not included in this table s basic wind speed of 110 m taching plywood and wood s listance from gable end walls g a basic wind speed of 100 r able end wall framing shall be an 100 mph, nails for attachin nches on center for minimum on center to gable end wall f g shall conform to ASTM C 1 eathing shall conform to AST n floor sheathing panel edges red blocking and at all floor p ges applies to panel edges su of roof or floor sheathing pan	⁷ / ₁₆ -inch on diame enter at all supports hall be applied ver shall be based on T oh or greater, 8d de tructural panel roo s, if mean roof heig mph or less, nails f e spaced 6 inches of 48-inch distance f raming. 396 and shall be in FM C 208. s applies to panel e berimeters only. Sp upported by framin tel edges perpendite r provisions of this be	ter crown width s where spans a tically. Fable R602.3(2) eformed (2 $\frac{1}{2}$ " x f sheathing to fr ht is more than for attaching wo on center. Whe ching to intermed from ridges, eav astalled in accor edges supported pacing of fasten ig members and cular to the fram s code. Floor per lance with this s	eters of 0.142 inch are 48 inches or 0.120) nails aming within 25 feet, up to 35 od structural panel in basic wind diate supports es and gable end dance with GA d by framing ers on roof I required hing members erimeter shall be schedule, provide e in accordance

