

ELEVATION NOTES

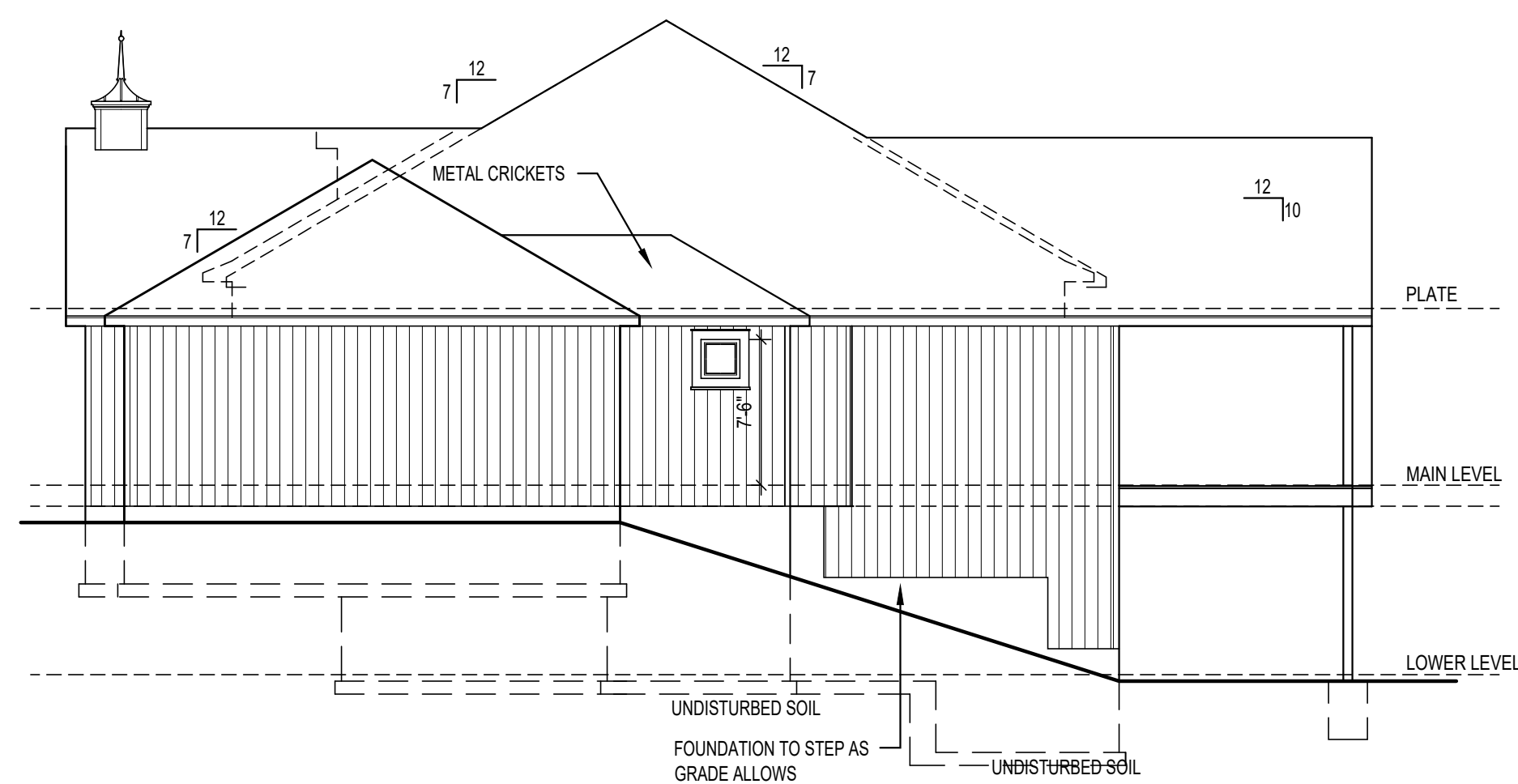
1. FINAL GRADE LINE MAY VARY PER EXISTING SITE CONDITIONS. REFER TO PLOT PLAN FOR SPECIFIC SITE GRADE CONDITIONS.
2. ALL ROOFING TO BE ASPHALT COMPOSITION UNLESS NOTED OTHERWISE.
3. ROOF AND SOFFIT VENTS PER LOCAL CODES. WHERE POSSIBLE, PROVIDE ROOF VENTING ON BACK SIDE OF ROOF.
4. GUTTER AND DOWNSPOUT LOCATIONS TO BE DETERMINED BY GUTTER INSTALLER.
5. SMART PANEL SIDING ON SIDE AND REAR ELEVATIONS UNLESS NOTED OTHERWISE.



Front Elevation

$$1/4'' = 1'-0''$$

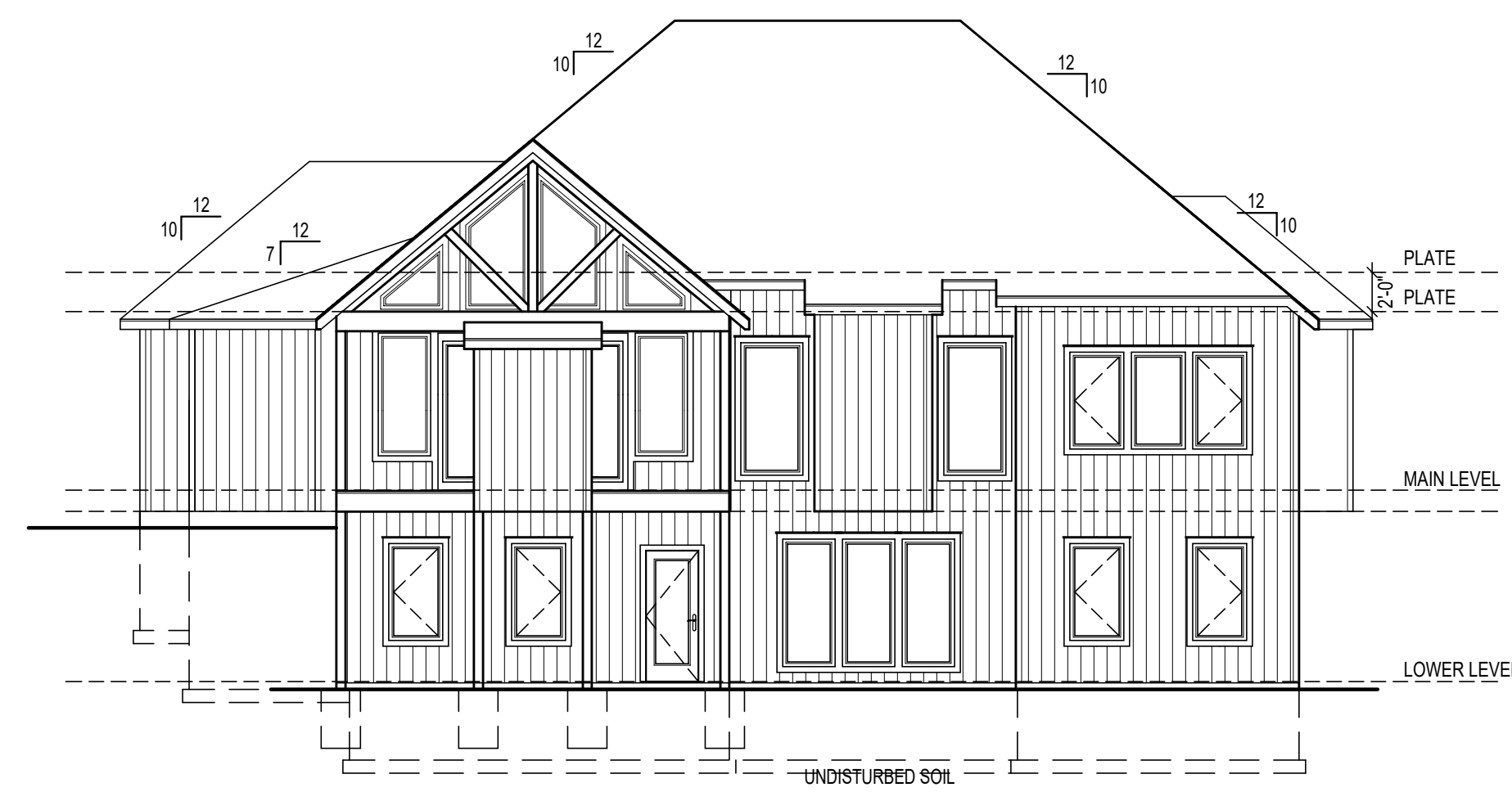
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Side Right Elevation

1/8" = 1'-0"

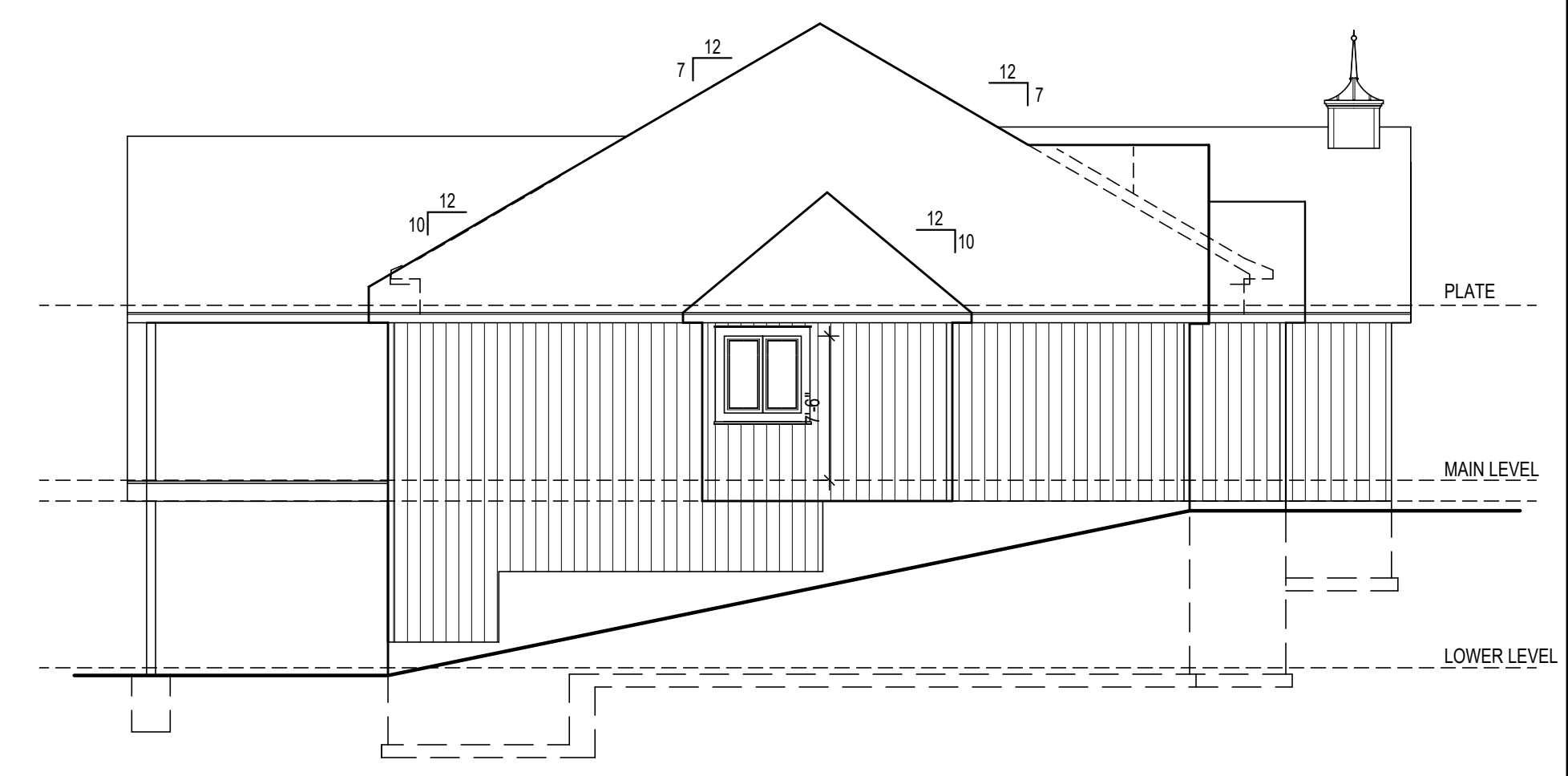
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Rear Elevation

1/8" = 1'-0"

3



Side Left Elevation

1/8" = 1'-0"

4

THE COVINGTON I

Chris and Tammy Wallerman
1808 SW River Run Drive, Lee's Summit, MO
Lot 15 - Whispering Woods Subdivision

Project #: 8083-21xx

DATE:

for Permit: 4/2/2021

/2021

Exterior

ior

Elevations

115

A100

GENERAL NOTES

- BUILDING PERMIT WILL BE REQUIRED FOR THE PROJECT. THIS SET OF DOCUMENTS TO BE SUBMITTED AS A PERMIT SET OF DRAWINGS.
- ALL CONTRACTORS SHALL VISIT THE JOB SITE AND SHALL REVIEW THE PERMIT DRAWINGS TO FAMILIARIZE HIMSELF WITH THE REQUIREMENTS AND INTENT OF THE SCOPE OF WORK. ANY DEFICIENCIES OR DISCREPANCIES DISCOVERED SHALL BE REPORTED FOR REVIEW AND CLARIFICATION PRIOR TO COMMENCING ANY WORK.
- ALL NEW CONSTRUCTION SHALL MEET LATEST EDITIONS OF ALL APPLICABLE NATIONAL, STATE, AND LOCAL BUILDING CODES - INTERNATIONAL RESIDENTIAL CODE.
- WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY. QUALITY MATERIALS SHALL BE USED THROUGHOUT. ALL WORK SHALL BE DONE IN A MANNER SO AS TO MATCH ADJACENT WORK AND FINISHES AND APPROVED BY OWNER.
- CONTRACTORS SHALL REMOVE ALL CONSTRUCTION DEBRIS. ALL CONSTRUCTION DEBRIS SHALL BE CONTAINED PER CITY REQUIREMENTS. AREAS FOR MATERIAL STORAGE, TRASH DISPOSAL, WORKMEN'S PARKING, ETC., SHALL BE COORDINATED WITH THE CITY.
- ALL DIMENSIONS TO BE VERIFIED BY CONTRACTOR.
- IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO COORDINATE WITH THE OWNER THE QUANTITY AND LOCATION FOR ALL LIGHTING, ELECTRICAL OUTLETS, TELEPHONE OUTLETS, AND MECHANICAL AND PLUMBING SYSTEMS AS REQUIRED.
- THE CONTRACTORS SHALL ADHERE TO THE STATE OF KANSAS ONE CALL SYSTEM, 1-800-344-7233 (MISSOURI ONE CALL SYSTEM, 1-800-344-7483). THE PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT OF WAY MUST GIVE NOTICE TO, AND OBTAIN INFORMATION FROM, UTILITY COMPANIES. THE CONTRACTORS SHALL NOTIFY THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED WHEN WORK COMMENCES.

GENERAL FOUNDATION REQUIREMENTS

- ALL FOOTINGS ARE TO BE EXTENDED TO MIN 30" BELOW FINISHED GRADE.
- ALL INTERIOR FOOTINGS FOR LOAD BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB.
- FOR ALL CONC WALL OPENINGS, FOOTING & WALL STEPS, PROVIDE ONE #4 BAR, 48" LONG DIAGONALLY AS CLOSE AS PRACTICAL TO CORNER.
- ALL REINFORCEMENT SHALL BE LAPPED A MIN OF 24" AT ENDS SPICES AND AROUND CORNERS.
- ANCHOR BOLTS ARE TO BE SPACED @ 36" WITH 7" MIN EMBED. A BOLT SHALL BE PLACED WITHIN 12" OF THE END OF EACH PLATE SECTION.
- FASTEN JOISTS TO SILL PLATES WITH (3) #6 COM NAILS.
- WHERE JOIST IS PARALLEL TO FOUNDATION, PROVIDE SOLID BLOCKING @ 32" FOR (3) JST SPACES. FASTEN TO SILL PLATE PER NOTE 8.
- VAPOR BARRIER, 6 MIL PE VAPOR RETARDER WITH JOINTS LAPPED A MIN OF 4" BETWEEN SLAB & BASE.
- DAMP PROOFING: ONE COAT (MIN) OF DAMP PROOFING OR EQUIVALENT FOUNDATION MEMBRANE SHALL BE APPLIED TO EXTERIOR WALL SURFACES BELOW GRADE. SEAL TIE HOLES, VOIDS BEFORE APPLICATION. FOUNDATION DRAIN: INSTALL CONT' 4" PERFORATED PVC DRAIN TILE. DRAIN TILE TO BE EXTENDED TO SQUARE SUMP PIT WHICH EXTENDS A MIN 24" BELOW BASEMENT FLOOR.
- ALL FRAMING MEMBERS IN CONTACT WITH CONCRETE SHALL BE ACQ TREATED LUMBER.
- ALL STEEL FASTENERS (INCLUDING FOUND. ANCHOR BOLTS) ON ACQ TO BE (DOUBLE HOT-DIPPED) GALVANIZED.
- PROVIDE A "UPPER" GROUND PER IRC 3608.1.
- EGRESS WELL REQUIREMENTS:
 - IF THE VERTICAL DISTANCE FROM THE WINDOW SILL TO ADJACENT GRADE IS GREATER THAN 44", PROVIDE A LADDER.
 - ADD DRAIN TO DAYLIGHT OR SUMP PUMP.

COLUMN & PIER PAD SCHEDULE			
COLUMN MARK	PAD SIZE	REINFORCEMENT	COLUMN SIZE
	36"x36"x12"	(6) #4 BAR E.W.	3'0" SCHED 40
	42"x42"x14"	(7) #4 BAR E.W.	3'0" SCHED 40
	48"x48"x16"	(8) #4 BAR E.W.	3'0" SCHED 40
	54"x54"x16"	(9) #4 BAR E.W.	3'1/2" SCHED 40
	60"x60"x18"	(10) #4 BAR E.W.	3'1/2" SCHED 40

- COLUMN & PIER PAD SIZES SHOWN ARE BASED ON AN ASSUMED MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 1,500 psf.
- GARAGE FOOTINGS PER DETAIL. COLUMN NOT REQUIRED UNLESS NOTED ON PLANS.

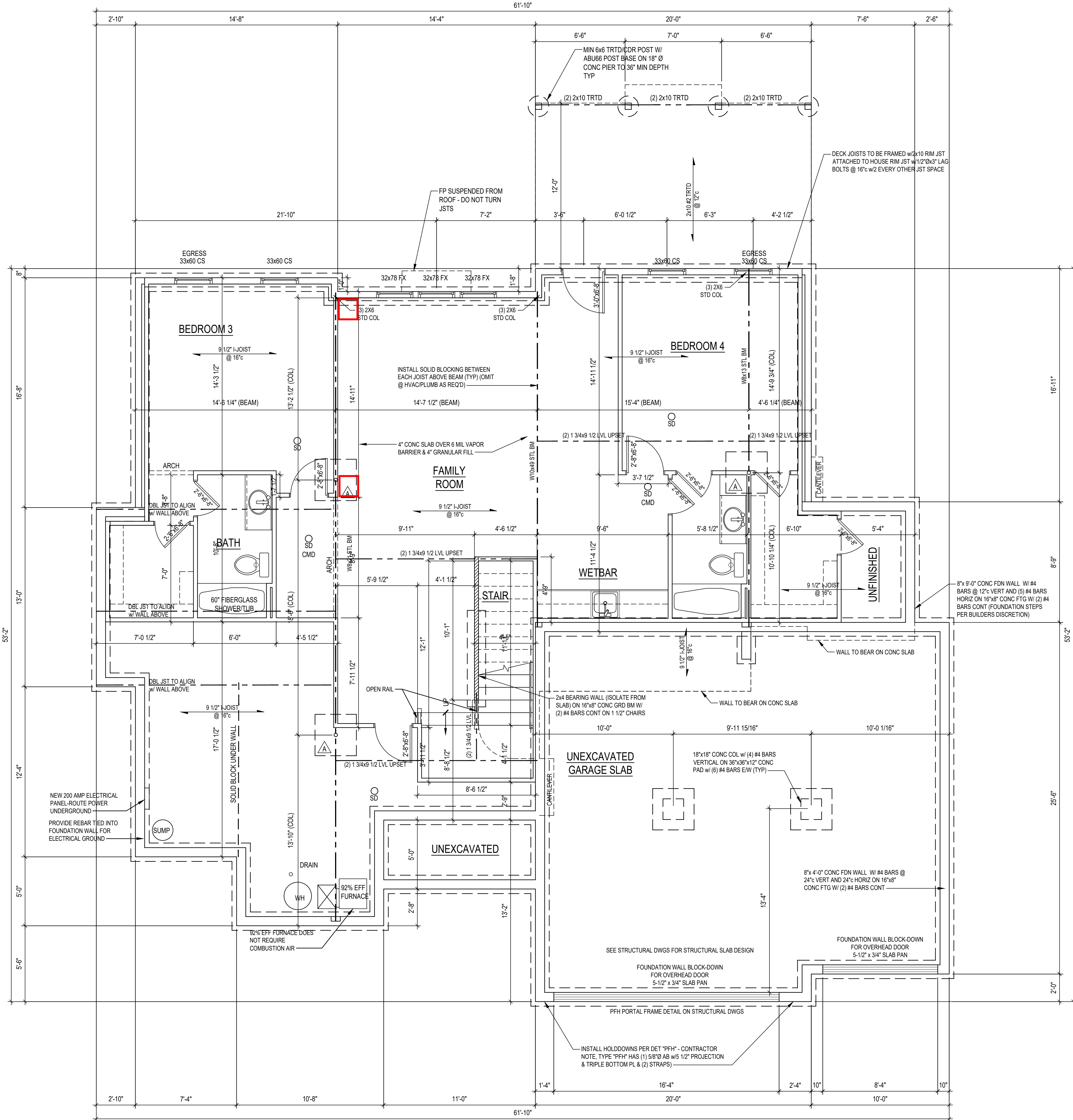
I JOIST AND TRUSS NOTES

- FLOOR TRUSS OR I-JOIST LOADING SHALL BE PER THE GENERAL NOTES.
- I-JOISTS MAY BE SHOWN AS SIMPLE SPAN TO DEFINE SPANS AND BEARING POINTS. TRUSS MFG TO RUN CONTINUOUS WHERE POSSIBLE.
- COORDINATE I-JOISTS LOCATIONS WITH PLUMBING DRAIN LINES AT ALL TOILET LOCATIONS.
- JOIST BLOCKING WHERE NOTED ON PLANS MAY BE OMITTED AT HVAC AND PLUMBING LOCATIONS AS REQUIRED.
- EXACT I-JOIST OR FLOOR TRUSS LAYOUT TO BE PROVIDED BY TRUSS MANUFACTURER. DESIGN AND LAYOUT TO BE SUBMITTED TO VAN DEURZEN AND ASSOCIATES TO REVIEW FOR GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING PRIOR TO SUBMITTAL TO THE CODES ADMINISTRATION FOR PERMITTING.
- IF A CONFLICT EXISTS BETWEEN SHOP DRAWINGS AND CONTRACT SET, THE CONTRACT SET SUPERCEDES THE JOIST/TRUSS LAYOUT.

I JOIST FIRE PROTECTION

ALL I-JOIST AND OPEN WEB TRUSSES OVER UNFINISHED SPACE EXCEEDING 80 SQUARE FEET IN AGGREGATE AREA TO BE PROTECTED BY THE FOLLOWING METHOD:

- 3" MINERAL/ROCK WOOL COVERING BTM CHORD AND NETTING PER APA FORM R425 METHOD 4



LOWER LEVEL FINISHED AREA:	1301 SF
UNFINISHED:	392 SF

////// LOAD BEARING WALL
----- LOAD BEARING BEAM

Foundation Plan

1/4" = 1'-0"

1



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THE COVINGTON I

Chris and Tammy Waller
1808 SW River Run Drive, Lee's Summit, MO
Lot 15 - Whispering Woods Subdivision

Project #: 8083-21xx

DATE:

For Permit: 4/2/2021

Foundation Plan



GENERAL PLAN REQUIREMENTS:

- ALL STUD WALL FRAMING SHALL BE CONTINUOUS FROM THE FLOOR TO ROOF OR CEILING DIAPHRAGM, U.N.O. ALL WALLS OVER 10'-0" ARE TO BE 2x6 @ 16" U.N.O.
- PROVIDE WATER-RESISTANT EXTERIOR WALL COVERING ON ALL FRAMED WALLS TO COMPLY WITH IRC SECTION 703.2.
- PROVIDE GFCI ELECTRICAL OUTLETS ON EXTERIOR, IN UNFINISHED BASEMENT, IN BATHROOMS, ABOVE KITCHEN COUNTERS, IN GARAGE, AND WITHIN 6'-0" OF ANY SINK.
- ALL EXTERIOR DOORS SERVED BY LANDING.
- INSTALL CARBON MONOXIDE DETECTORS PER IRC SECTION 315 OUTSIDE OF EACH SLEEPING AREA.
- INSTALL SMOKE DETECTORS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA, WITH A MINIMUM OF ONE ON EACH FLOOR PER IRC SECTION 314.
- PROVIDE A "JERF" GROUND PER IRC 3608.1.
- REFER TO SHEET 93 FOR ALL WALL BRACING DETAILS AND/OR CALCULATIONS.
- INSTALL BLOCKING FOR TP HOLDERS, TOWEL BARS, AND TRIM BEAMS.
- GARAGE DOOR H-FRAME: THE H-FRAME FOR ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING FROM FLOOR TO CEILING ATTACHED WITH 3 1/4"x120 NAILS @ 7" STAGGERED WITH (7) 3 1/4"x120 NAILS THRU JAMB INTO HEADER. MINIMUM 2x6 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.
- OVERHEAD GARAGE DOORS TO MEET 115 MPH WIND LOAD RESISTANCE REQUIREMENTS OF DASHA 108-17 AND ASTM E 330-02 PER IRC SECTION R 609.4.
- MAXIMUM RISER HEIGHT OF STAIRWAYS SHALL NOT EXCEED 7 3/4" AND THE TREADS SHALL PROVIDE A MINIMUM TREAD DEPTH OF 10".
- ALL EXTERIOR AND LOAD BEARING WINDOW AND DOOR HEADERS TO BE (2) 2x10 D.FIR #2 UNLESS NOTED OTHERWISE ON PLANS.
- ALL HEADER BEARINGS (OTHER THAN WINDOWS) TO BE (2) 2x4 STUDS UNLESS NOTED OTHERWISE. WINDOW HEADER BEARING TO BE (1) 2x4 EA END UNLESS NOTED OTHERWISE.
- ALL EXTERIOR PLATE HGTS TO BE 9'-0" UNLESS OTHERWISE NOTED. INTERIOR PLATE HGTS AS INDICATED IN ROOM CLG HEIGHTS NOTATION. NO HANDRAIL IS REQ'D FOR STEPS HAVING LESS 3 RISERS OR LESS.
- ANY LUMBER IN DIRECT CONTACT WITH CONCRETE TO BE TREATED.

ENERGY REQUIREMENTS

CONTRACTOR TO PROVIDE ENERGY AUDIT USING THE HERS ENERGY RATING SYSTEM. IN LIEU OF AN ENERGY AUDIT, THE FOLLOWING PRESCRIPTIVE REQUIREMENTS MAY BE FOLLOWED:

- ALL DUCTS, AIR HANDLERS, FILTER BOXES, AND BUILDING CAVITIES TO BE SEALED PER IRC SECTION N1102.2.
- THE BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED PER IRC SECTION N1102.4.
- CONTRACTOR TO SUBMIT "MANUAL 7" AND "MANUAL D" CALCULATIONS FOR THE HVAC SYSTEM.
- INSULATION TO COMPLY WITH IECC AS FOLLOWS:
 - WALLS R-13
 - CEILING (FLAT) R-49
 - CEILING (VAULTED) R-38 (NOTE: VAULTED AREA NOT TO EXCEED 500sq ft OR 20% OF ROOF AREA, WHICHEVER IS LESS)

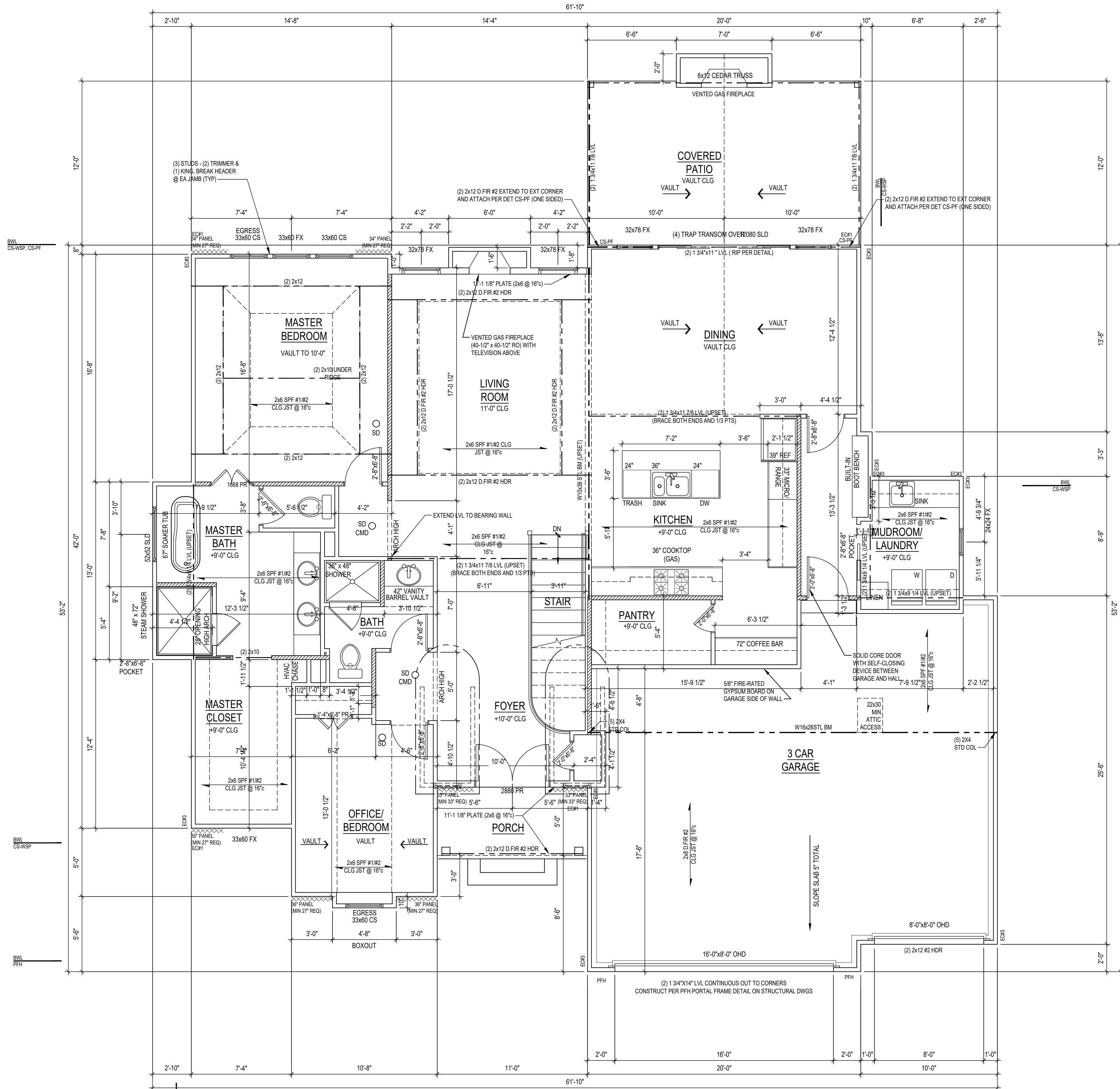
FLOORS OVER UNCONDITIONED SPACE	R-19
CRAWL SPACE WALLS	R-13 (or R-10 CONTINUOUS)
BASEMENT WALLS	R-13 (or R-10 CONTINUOUS)
SLABS	N/R
DUCTWORK	N/R
WINDOWS	U-FACTOR 0.35 (MAX)
SHGC	0.40 (MAX)
SKYLIGHTS	U-FACTOR 0.55 (MAX)
SHGC	0.40 (MAX)

WINDOW AND DOOR NOTES

- VERIFY WINDOW AND DOOR SIZE WITH SUPPLIER PROVIDED CUT SHEET PRIOR TO FRAMING.
- WINDOW SUPPLIER TO CONFIRM EXACT SAFETY AND EGRESS WINDOW LOCATIONS PER LOCAL CODES.
- ALL WINDOWS TO BE LOW-E GLASS TO MEET ALL LOCAL ENERGY CODE REQUIREMENTS.
- ALL WINDOWS TO BE FRAMED TIGHT TO HEADERS UNLESS NOTED OTHERWISE ON ELEVATIONS.
- PROVIDE EGRESS WINDOW IN ALL SLEEPING ROOMS. WINDOWS SHALL COMPLY WITH THE FOLLOWING:
 - A. MINIMUM OPEN AREA 57 SF
 - B. MINIMUM OPENING HEIGHT 24 INCHES
 - C. MINIMUM OPENING WIDTH 20 INCHES
 - D. SILL HEIGHT 44" MAX ABOVE FLOOR
- WINDOW SILLS ARE TO BE 24" MIN FIN FLOOR, OR SHALL BE FIXED / INOPERABLE.
- ALL WINDOWS AND GLAZED DOORS SHALL COMPLY WITH 2018 IRC SECTION R308. IRC SECTION R308.4: GLAZING IN HAZARDOUS LOCATIONS 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" ARC 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 STAIR ENCLOSURES FOR TUBS, SHOWERS AND WHIRLPOOLS, GLAZING IN FIXED OR OPERABLE PANELS EXCEEDING 9 SF AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36".
- ALL OPERABLE WINDOWS SHALL HAVE FALL PROTECTION PER IRC R312.
- ALL GLAZING IN WINDOWS AND DOORS SHALL COMPLY WITH THE TEST CRITERIA FOR CATEGORY II IN ACCORDANCE WITH CPSC 16 CFR 1201.

WALL BRACING NOTES:

- SHEATHING METHOD CS-WSP, WSP, PFH, GB (or LIB), CS-PF
- ALL EXTERIOR WALLS ARE TYPE "CS-WSP" AND ARE CONTINUOUSLY SHEATHED UNLESS NOTED OTHERWISE. THE BRACED WALL NOTATIONS (IF SHOWN) REFLECT THE MINIMUM SHEATHING REQUIREMENTS PER CODE.
 - IF NO NOTATIONS ARE SHOWN FOR WALLS TYPE "CS-WSP" ON PLAN, WALL IS FULLY SHEATHED AND MEETS ALL REQUIREMENTS WITH END CONDITION #1, #3, OR #4.
 - EC # - END CONDITION PER IRC FIGURE R602.10.7, (FOR CONDITIONS #1, #3, & #4 NO HOLDDOWN REQUIRED).
 - INTERIOR WALL BRACING NOT REQUIRED FOR BRACED WALL SPACING 60FT OR LESS.
- XXXXXX DENOTES EXTERIOR BRACED WALL WOOD STRUCTURAL PANEL (WSP or CS-WSP) ATTACHED PER DETAILS AND GENERAL NOTES
- XX" PANEL



First Floor Plan

1

Project #: 8083-21xx

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First Floor Plan

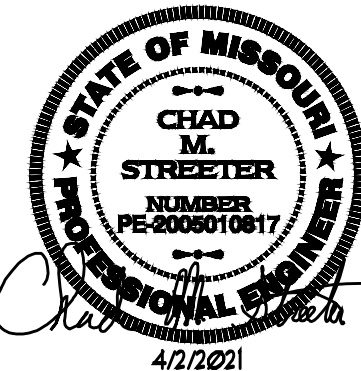
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LEE'S SUMMIT, MISSOURI
04/27/2021



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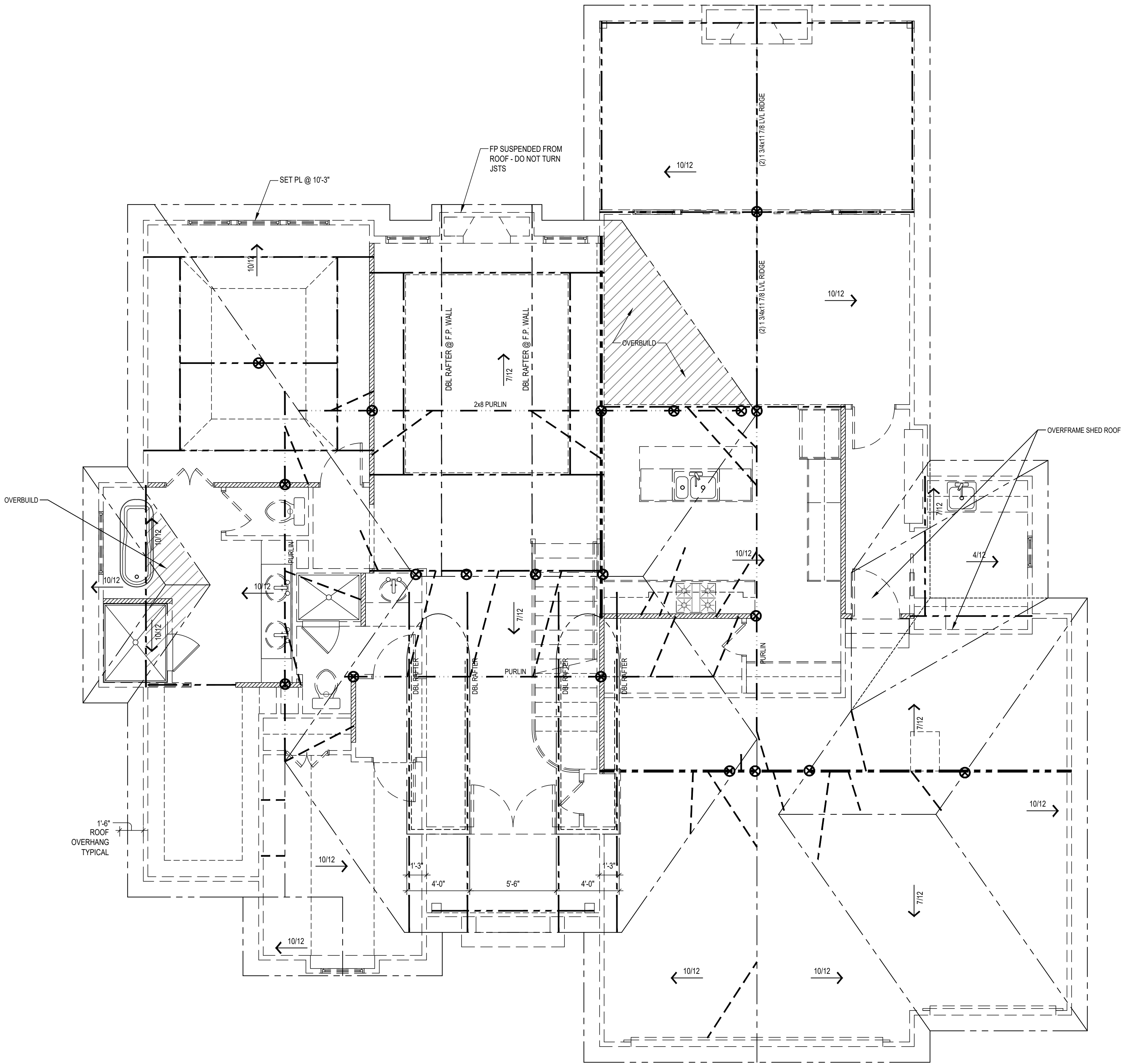
ROOF PLAN NOTES

- ALL ROOF RAFTERS NOT CALLED OUT ARE TO BE 2x6 SPF #1#2 @ 16"
- ALL CEILING JOISTS NOT CALLED OUT ARE TO BE 2x6 SPF #1#2 @ 16"
- ALL VAULTS TO BE FURRED DOWN w/2x MATERIAL TO PROVIDE FOR R-38 INSULATION
- ALL EXTERIOR AND LOAD BEARING WINDOW AND DOOR HEADERS TO BE (2) 2x10 D.FIR #2 UNLESS NOTED OTHERWISE ON PLANS
- ALL RIDGES, HIPs, AND VALLEYS NOT MARKED SHALL BE (1) NOMINAL SIZE LARGER THAN THE INTERSECTING RAFTERS
- CEILING JOISTS AND RAFTERS SHALL BE NAILED TO EACH OTHER WITH (3) 16d COM (3 1/2"x0.162") NAILS AND THE RAFTER SHALL BE NAILED TO THE TOP WALL PLATE WITH (3) 8d COM (2 1/2"x0.131") NAILS. CEILING JOISTS SHALL BE CONTINUOUS OR SECURELY JOINED WITH (3) 16d COM (3 1/2"x0.162") NAILS WHERE THEY MEET OVER INTERIOR PARTITIONS AND ARE NAILED TO ADJACENT RAFTERS TO PROVIDE A CONTINUOUS TIE ACROSS THE BUILDING WHEN SUCH JOISTS ARE PARALLEL TO THE RAFTERS
- WHERE CEILING JOISTS ARE NOT CONNECTED TO THE RAFTERS AT THE TOP WALL PLATE (or AT LOCATIONS WHERE C.J. ARE PERPENDICULAR TO RAFTERS), INSTALL 2x4 RAFTER TIES @ 16" WITH (3) 16d COM (3 1/2"x0.162") NAILS EA END
- RAFTER CONNECTIONS DESIGNED TO RESIST UPLIFT FORCES PER IRC TABLE R802.11. ROOF HEADERS DO NOT HAVE NOTABLE UPLIFT TO REQUIRE HOLD DOWNS. REFER TO STRUCTURAL DETAIL SHEET S1 CONNECTION TABLE FOR FASTENERS
- INSTALL 2x4 COLLAR TIES @ 48" IN UPPER 1/3rd OF ROOF RAFTER. PROVIDE METAL FLASHING AT ALL ROOF VALLEYS
- ROOF AND SOFFIT VENTS PER LOCAL CODES. WHERE POSSIBLE, PROVIDE ROOF VENTING ON BACK SIDE OF ROOF. BATH VENTS TO VENT DIRECTLY TO THE OUTSIDE
- EXACT GUTTER AND DOWNSPOUT LOCATION BY GUTTER INSTALLER
- PER IRC SECTION R802.3 - FOR ROOF PITCHES 3/12 OR GREATER, STRUCTURAL MEMBERS THAT SUPPORT RAFTERS AND CEILING JOISTS SUCH AS RIDGE BEAMS, HIPs AND VALLEYS THAT ARE SUPPORTED BY BRACES AND/OR PURLINS AT THE ENDS ARE NOT REQUIRED TO BE DESIGNED AS BEAMS AND ARE TO BE FRAMED USING LUMBER THAT IS NOMINALLY 2" WIDE BY ONE SIZE GREATER THAN ATTACHING FRAMING MEMBER (NOTE #5). THERE IS NO STRUCTURAL LINE LOADING ON THE MEMBER

ROOF BRACING

- ROOF PURLINS TO BE PLACED APPROXIMATELY WHERE SHOWN ON PLANS. USE 2x6 STUD GRADE PURLIN PLACED PERPENDICULAR TO RAFTERS (UNLESS NOTED OTHERWISE ON PLANS)
- RIDGE, HIP, VALLEY, AND PURLIN BRACE STRUTS TO BE PLACED AS SHOWN ON PLANS. STRUTS TO BE 2x4 STUD GRADE w/ MAXIMUM UNBRACED LENGTH OF 8'-0" AND AT A 45° ANGLE w/ HORIZONTAL OR GREATER (VERTICAL WHERE POSSIBLE)
- BRACES LONGER THAN 8'-0" SHALL BE 2x4 STRONG BACK BRACES

- /// LOAD BEARING INTERIOR WALL BELOW
- LOAD BEARING BEAM BELOW
- - - 2x6 ROOF PURLIN (UNLESS NOTED OTHERWISE ON PLANS)
- - - 2x4 PURLIN/RIDGE BRACING (STRONG BACK IF OVER 8'-0" LONG)
- ⊗ 2x4 STRONG BACK POST

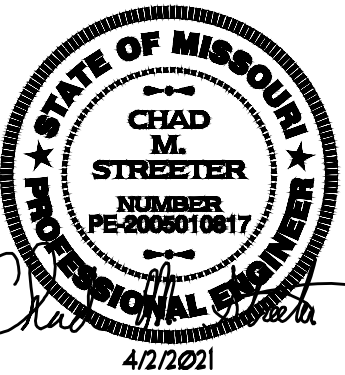


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Roof
Plan

A103
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CONSTRUCTION
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LEE'S SUMMIT, MISSOURI
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STRUCTURAL GENERAL NOTES

DIVISION 1 - GENERAL REQUIREMENTS

- Design and construction work for this project shall conform to the requirements of the 2018 International Residential Code as amended by the City of Lee's Summit, MO
- Furnish all labor, materials and equipment necessary to complete the work as shown or inferred by the drawings.
- Design Loads:

Residential (Live Loads)	40 PSF
Sleeping rooms (Live Loads)	30 PSF
Floor Dead Load L/80	15 PSF
Floor Joist Deflection (Total)	L/80
Floor Joist Deflection (Live)	L/360
Attic Storage (Live Loads)	10 PSF
Ceiling Dead Load	5 PSF
Ceiling Joist Deflection	L/240
B. Roof Live Load	20 PSF
C. Roof Snow Load:	
Ground Snow Load, pg	20 PSF
Flat Roof Snow Load, pf	20 PSF
Snow Exposure Factor, Ce	1.0
Snow Load Importance Factor, Is	1.0
Thermal Factor, Ct	1.0
D. Wind Load:	
Basic Wind Speed (Vult)	115 MPH
Risk Category	II
Exposure	B
Internal Pressure Coefficient	±0.18

- The contractor shall examine actual job conditions and be responsible for verifying all dimensions and elevations shown on structural plans with those shown on architectural and mechanical drawings. If errors, omissions or discrepancies are found they shall be reported to the engineer before proceeding with the work.
- Plans indicate size, location and general arrangement of construction. Dimensions lacking or not drawn to scale shall not be scaled but referred to the designer for interpretation.

DIVISION 2 - EARTHWORK

- The contractor shall employ the services of a geotechnical engineer to observe, test and approve all excavation, fill and backfill work and to determine that subsurface conditions are compatible with those used in the design.
- The minimum soil bearing capacity is 1500 PSF in accordance with Table 1904.2 of the International Building Code. All footings are designed to bear on natural undisturbed soil or controlled fill capable of adequately sustaining a maximum bearing pressure of 1500 PSF. If suitable bearing capacity is not encountered at the elevation indicated on the drawing, contractor shall notify the architect immediately.
- All topsoil, organic material and existing structures shall be removed from building area and from areas to be paved. Stockpile all topsoil for reuse.
- Controlled Fill Materials:
 - Granular Fill: Granular fill shall consist of washed, evenly graded mixture of crushed stone, or crushed or uncured gravel, with 100 percent passing a 1 1/2 inch sieve and not more than 5 percent passing a no. 4 sieve.
 - Shrinkage-Swell control fill: Shrinkage-swell controlled fill shall consist of material having a relatively low plasticity with a liquid limit of less than 45 percent and a plasticity index of less than 21 percent.
 - Controlled Fill: Controlled fill shall be either granular or shrinkage-swell controlled fill as specified above and as approved by the geotechnical engineer.
 - Controlled fill shall consist of material having a relatively low plasticity with a liquid limit of less than 45 percent and a plasticity index of less than 21 percent.
- Foundation Preparation:
 - Protest site to identify soft or disturbed areas. If areas are found to be unsuitable for support of footings and/or slab-on-grade please contact the Engineer of Record.
 - Backfill directly under slabs-on-grade with minimum of 4 inches of granular fill consisting of washed, evenly graded mixture of crushed stone, or crushed or uncured gravel, with 100 percent passing a 1 1/2 inch sieve and not more than 5 percent passing a no. 4 sieve.

- Controlled Fill and Backfill Compaction:
 - All controlled fill and backfill shall be placed in lifts having maximum loose lift thickness of 9 inches.
 - Granular Fill: Compact granular fill below footing bearing elevation to a minimum of 95 percent of material's maximum dry density as determined by ASTM D 698 and to a minimum of 95 percent of material founded above footing bearing elevation.
 - Shrinkage-swell controlled fill: Compact shrinkage-swell controlled fill below footing bearing elevation to minimum of 95 percent of the material's maximum dry density as determined by ASTM D 698 and to a minimum of 95 percent for material founded above footing bearing elevation.
 - Controlled Fill: Compact controlled fill at a moisture content within a range of 0 to 4 percent above optimum moisture content.

DIVISION 3 - CONCRETE

- All concrete work shall conform to the requirements of ACI 318 "Building Code Requirements for Reinforced Concrete" and ACI 301 "Specification for Structural Concrete Buildings."
- Concrete materials shall comply with:
 - Cement - ASTM C 150 Type I
 - Aggregate - ASTM C 33, maximum aggregate size 3/4 inch
 - Water - Potable
 - Air-entraining admixture - ASTM C 260
 - Water-reducing admixture - ASTM C 494, including superplasticizers.
 - Fly ash - ASTM C 618, Class C
- Concrete shall develop the following minimum 28 day design compressive strength (f'c):

Type of Construction	Compressive Strength (f'c)
A. Footings, walls and basement slab	3000 PSI
B. Garage Slab	3600 PSI
C. Exterior slabs, steps, and curbs (air-entrained concrete)	4000 PSI
- Concrete proportions shall be established on the basis of field experience and/or trial mixtures in accordance with ACI 318-88 Sections 5.2 and 5.3. When fly ash is utilized in the mix, mix shall contain a water-reducer. Fly ash shall be added at the rate of not more than 100 pounds per cubic yard and cement shall be reduced by not more than 15 percent by weight. Proportion and design mixes to result in concrete slump at point of placement of not more than 4 inches, except groll for masonry of not more than 6 inches.
- Use air-entraining admixture in exterior exposed concrete to result in concrete at point of placement having air content of 5 to 7 percent entrained air.
- Reinforcing Steel:
 - Reinforcing bars - ASTM A 615, grade 40, deformed.
 - Welded wire fabric - ASTM A 1854, lap at least one full mesh and lace splices with wire.
 - Supports for reinforcement - comply with CRSI recommendations.
 - Cast against and exposed to earth—3 inches
 - Exposed to earth or weather—2 inches
 - Not exposed to earth or weather—1 1/2 inches
- Concrete Work Execution:
 - Minimum concrete cover for reinforcement shall be, unless noted otherwise on the drawings:

Cast against and exposed to earth—3 inches
Exposed to earth or weather—2 inches
Not exposed to earth or weather—1 1/2 inches
 - All exposed, organic material and existing structures shall be removed from building area and from areas to be paved. Stockpile all topsoil for reuse.
 - Protect concrete work from physical damage or reduced strength due to weather extremes. In cold weather comply with ACI 308.
 - In hot weather comply with ACI 305.
 - In corners of grade beams and walls provide corner reinforcement. Lap two feet each direction in outside face, matching size and spacing of horizontal reinforcement.
 - At openings in walls, add one #4 bar (opening dimension plus 60 bar diameters) each face, each corner of opening.
 - Provide one #4 bar diagonally at each face of all steps in grade beams and foundation walls.
 - Provide construction joints in footings, grade beams and walls at not greater than 80 feet in any direction, key and dowel construction joints.
 - Provide control joints in slabs-on-grade at not greater than 20 feet on center in each direction. Saw cut control joints minimum 1/4 of slab depth, as soon after slab finishing as possible without dislodging aggregate.
 - Coordinate concrete work with architectural and mechanical drawings for concrete finishes, recessed areas, embedded items and other conditions.

DIVISION 5.5 - MISCELLANEOUS STRUCTURAL STEEL

- All miscellaneous structural steel work shall conform to the requirements of AISC "Specifications for Design, Fabrication, and Erection of Structural Steel for Buildings".
- Miscellaneous structural steel material shall comply with:
 - Structural Steel - ASTM A 36
 - Cold-formed Steel Tubing - ASTM A 500 Grade B
 - Anchor Rods - ASTM F-1554, non-headed type unless otherwise noted.

DIVISION 6 - ROUGH CARPENTRY

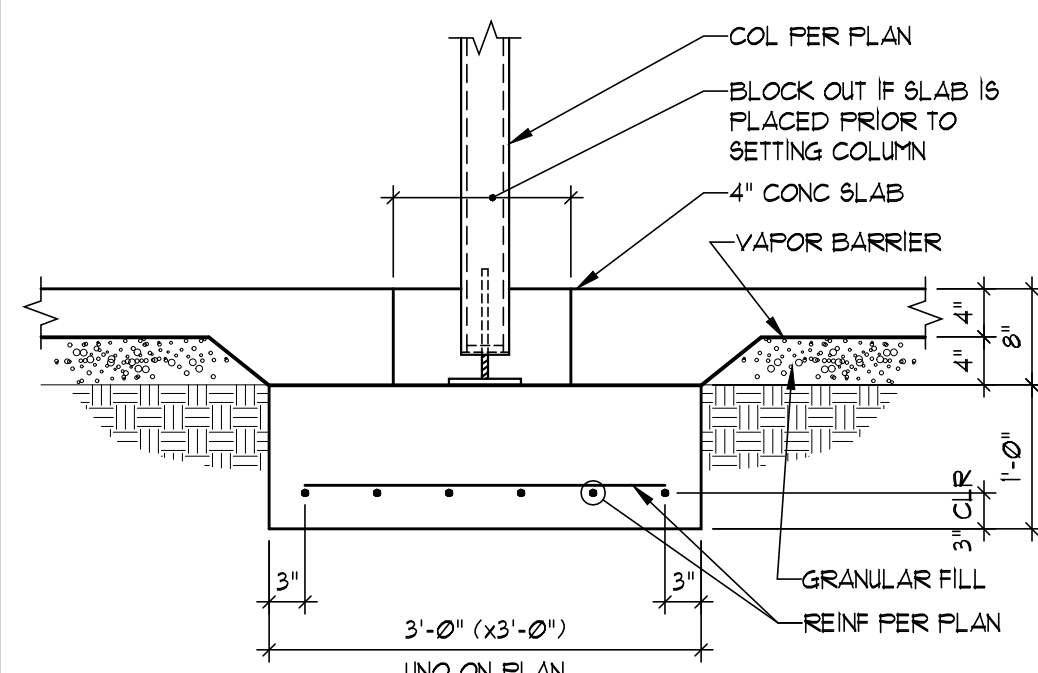
- All rough carpentry work shall conform to the requirements of NFOPA "National Design Specification of Wood Construction", TP "Design Specifications for Light Metal Plate Connected Wood Trusses", APA Plywood Design Specifications", DOC PS 1 "Product Standard for Construction and Industrial Plywood", DOC PS 56 "Structural Glued Laminated Timber" and Chapter 23 of the International Building Code.
- Rough carpentry materials shall comply with:
 - Lumber - S4S, surface dry, grade marked, complying with PS 20; graded under WWPA or SPIB rules:

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING AND LOCATION
ROOF			
1	Blocking between ceiling joists or rafters to top plate	(4) 8d box (3) 8d common (3) 10d box	Toe nail
2	Ceiling joists to top plate	(4) 8d box (3) 8d common (3) 10d box	Per joist, toe nail
3	Ceiling joist not attached to parallel rafter, lap over partitions	(4) 10d box (3) 16d common	Face nail
4	Ceiling joist attached to parallel rafter (heel joint)	(3) 16d common @ slopes greater than 4:12 (5) 16d common @ slopes 4:12 or less	Face nail
5	Collar tie to rafter, face nail or 11/4" x 20ga. ridge strap to rafter	(4) 10d box (3) 16d common	Face nail each rafter
6	Rafter or roof truss to plate	(3) 16d box (3) 10d common (4) 10d box	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss
7	Rafter rafters to ridge, valley or hip rafter or rafter to minimum 2" ridge beam	(4) 16d (3) 10d common (4) 10d box	Toe nail
8	Stud to stud (not at braced wall panels)	(3) 16d box (3) 10d common (4) 10d box	End nail
9	Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	(3) 16d box (3) 10d common (4) 10d box	End nail
10	Build-up header (2" to 2" header with 1/2" spaces)	(3) 16d box (3) 10d common (4) 10d box	End nail
11	Continuous header to stud	(3) 16d box (3) 10d common (4) 10d box	End nail
12	Top plate to top plate	(3) 16d box (3) 10d common (4) 10d box	End nail
13	Double top plate splice for SDCs A-D2 with seismic braced wall line spacing < 25'	(3) 16d box (3) 10d common (4) 10d box	End nail
14	Double top plate splice SDCs DO, D1, or D2, and braced wall line spacing ≥ 25'	(3) 16d box (3) 10d common (4) 10d box	End nail
15	Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	(3) 16d box (3) 10d common (4) 10d box	End nail
16	Bottom plate to joist, rim joist, band joist or blocking (at braced wall panel)	(3) 16d box (3) 10d common (4) 10d box	End nail
17	Top plates, laps at corners and intersections	(3) 16d box (3) 10d common (4) 10d box	End nail
18	1" brace to each stud and plate	(3) 16d box (3) 10d common (4) 10d box	End nail
19	1" x 6" sheathing to each bearing	(3) 16d box (3) 10d common (4) 10d box	End nail
20	1" x 8" and wider sheathing to each bearing	(3) 16d box (3) 10d common (4) 10d box	End nail

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING AND LOCATION
FLOOR			
21	Joist to sill, top plate or girder	(4) 8d box (3) 8d common (3) 10d box	Toe nail
22	Rim joist, band joist or blocking to 8d sill or top plate (roof applications also)	(4) 8d box (3) 8d common (3) 10d box	4" toe nail
23	1" x 6" subfloor or less to each joist	(3) 8d box (2) 8d common (3) 10d box	Face nail
24	2" subfloor to joist or girder	(3) 8d box (2) 8d common (3) 10d box	Face nail
25	2" plank (plank & beam-floor & roof)	(3) 8d box (2) 8d common (3) 10d box	Face nail
26	Band or rim joist to joist	(3) 8d box (2) 8d common (3) 10d box	Face nail
27	Build-up girders and beams, (2) inch lumber layers	(3) 8d box (2) 8d common (3) 10d box	Face nail
28	Ledger strip supporting joists or rafters	(3) 8d box (2) 8d common (3) 10d box	Face nail
29	Bridging to joist	(3) 8d box (2) 8d common (3) 10d box	Face nail

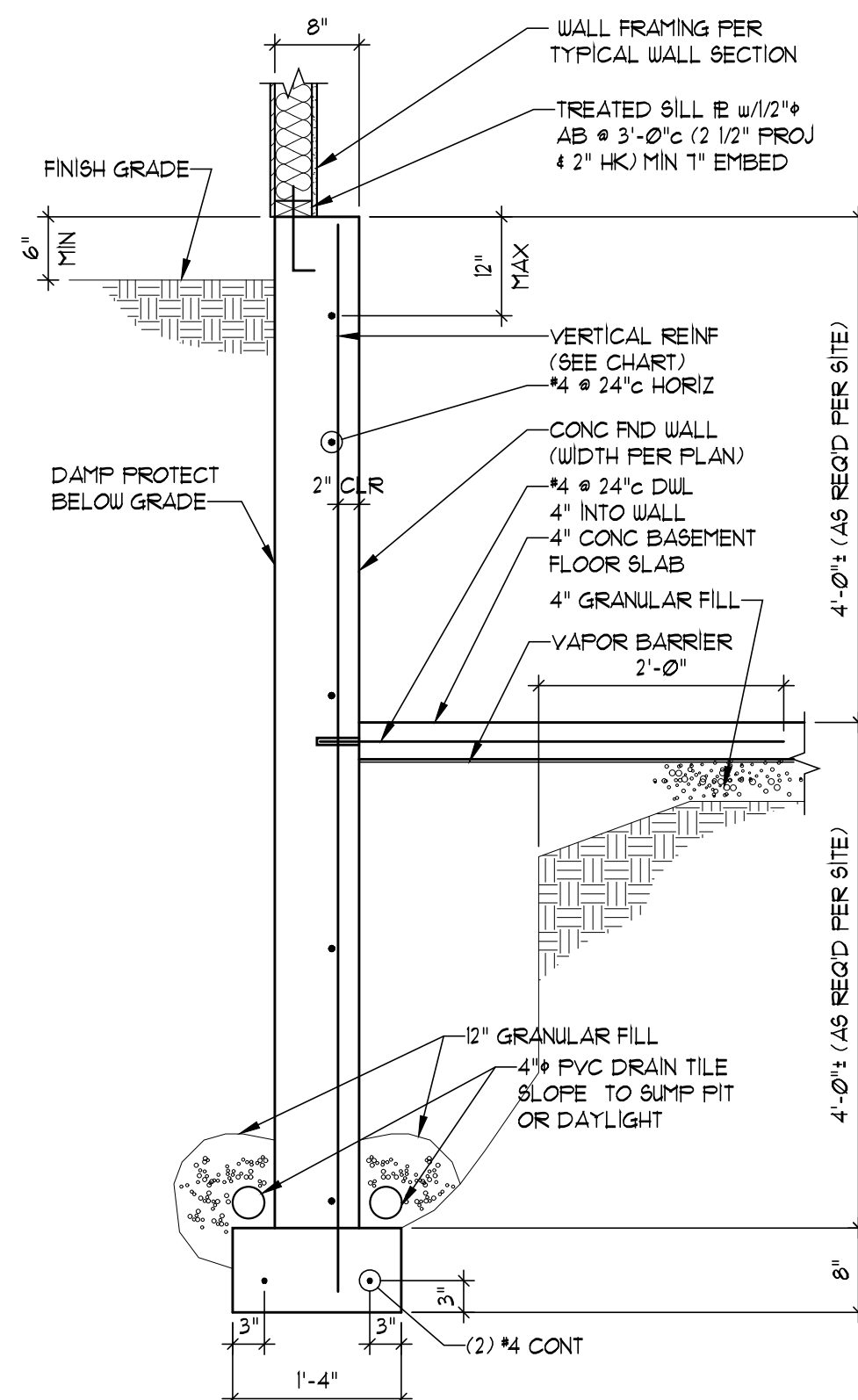
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING AND LOCATION
WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING			
30	3/8" - 1/2"	(6) 6d common (8) 6d common (roof)	2" x 0.113"
31	19/32" - 1"	(8) 6d common	2 1/2" x 0.131"
32	1 1/8" - 1 1/4"	(10) 6d common (8) 6d deformed nail	2 1/2" x 0.131"
OTHER WALL SHEATHING			
33	1/2" structural cellulose fiberboard sheathing	1 1/2" galv. roofing nail, 7/16" head dia., or 1" crown staple 16 ga., 1 1/4" long	3
34	25/32" structural cellulose fiberboard sheathing	1 3/4" galv. roofing nail, 7/16" head dia., or 1" crown staple 16 ga., 1 1/4" long	3
35	1/2" gypsum sheathing ^d	1 1/2" galv. roofing nail: staple galv., 1 1/2" long; 11/4" screws, Type W or S	7
36	5/8" gypsum sheathing ^d	1 3/4" galv. roofing nail: staple galv., 1 5/8" long; 1 5/8" screws, Type W or S	7
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING			
37	3/4" and less	(6) 6d deformed (8) 6d common	2" x 0.120"
38	7/8" - 1"	(8) 6d deformed	2 1/2" x 0.131"
39	1 1/8" - 1 1/4"	(10) 6d common (8) 6d deformed	2 1/2" x 0.131"

- 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. (R) is for short diameter nails of 0.160 (20d common nail), 0.165 (22d common nail), 0.170 (24d common nail), 0.175 (26d common nail), 0.180 (28d common nail), 0.185 (30d common nail), 0.190 (32d common nail), 0.195 (34d common nail), 0.200 (36d common nail), 0.205 (38d common nail), 0.210 (40d common nail), 0.215 (42d common nail), 0.220 (44d common nail), 0.225 (46d common nail), 0.230 (48d common nail), 0.235 (50d common nail), 0.240 (52d common nail), 0.245 (54d common nail), 0.250 (56d common nail), 0.255 (58d common nail), 0.260 (60d common nail), 0.265 (62d common nail), 0.270 (64d common nail), 0.275 (66d common nail), 0.280 (68d common nail), 0.285 (70d common nail), 0.290 (72d common nail), 0.295 (74d common nail), 0.300 (76d common nail), 0.305 (78d common nail), 0.310 (80d common nail), 0.315 (82d common nail), 0.320 (84d common nail), 0.325 (86d common nail), 0.330 (88d common nail), 0.335 (90d common nail), 0.340 (92d common nail), 0.345 (94d common nail), 0.350 (96d common nail), 0.355 (98d common nail), 0.360 (100d common nail), 0.365 (102d common nail), 0.370 (104d common nail), 0.375 (106d common nail), 0.380 (108d common nail), 0.385 (110d common nail), 0.390 (112d common nail), 0.395 (114d common nail), 0.400 (116d common nail), 0.405 (118d common nail), 0.410 (120d common nail), 0.415 (122d common nail), 0.420 (124d common nail), 0.425 (126d common nail), 0.430 (128d common nail), 0.435 (130d common nail), 0.440 (132d common nail), 0.445 (134d common nail), 0.450 (136d common nail), 0.455 (138d common nail), 0.460 (140d common nail), 0.465 (142d common nail), 0.470 (144d common nail), 0.475 (146d common nail), 0.480 (148d common nail), 0.485 (150d common nail), 0.490 (152d common nail), 0.495 (154d common nail), 0.500 (156d common nail), 0.505 (158d common nail), 0.510 (160d common nail), 0.515 (162d common nail), 0.520 (164d common nail), 0.525 (166d common nail), 0.530 (168d common nail), 0.535 (170d common nail), 0.540 (172d common nail), 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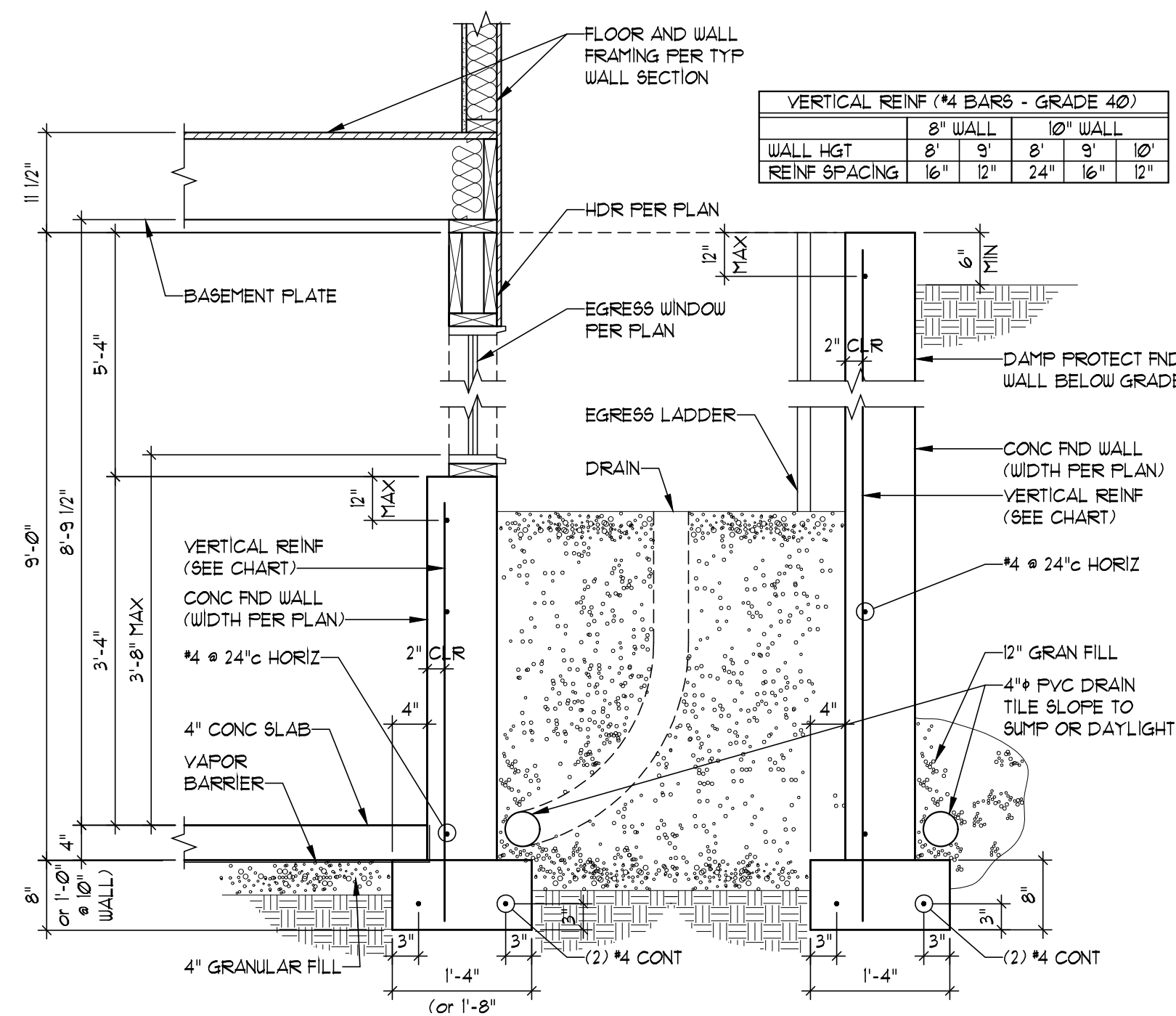


TYPICAL INTERIOR COLUMN
SCALE: 3/4" = 1'-0"

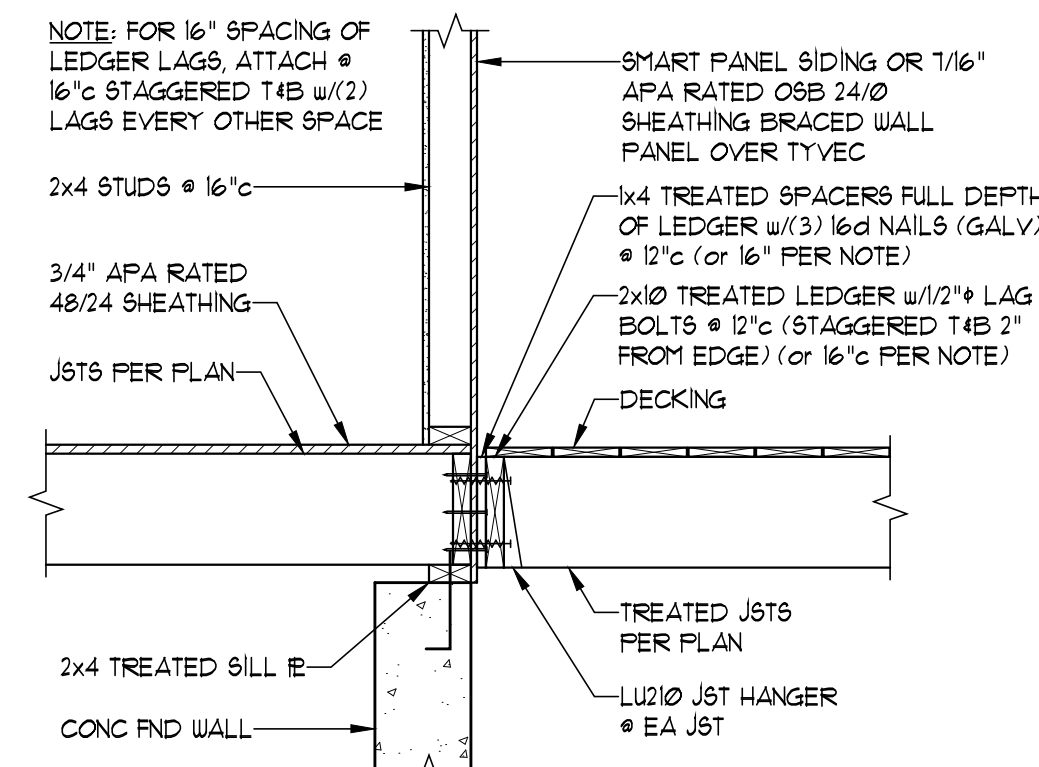
VERTICAL REIN (#4 BARS - GRADE 40)					
WALL HGT	8" WALL	9" WALL	10" WALL	12" WALL	16" WALL
REIN SPACING	16"	12"	24"	16"	12"



TYPICAL DAYLIGHT SECTION
SCALE: 3/4" = 1'-0"

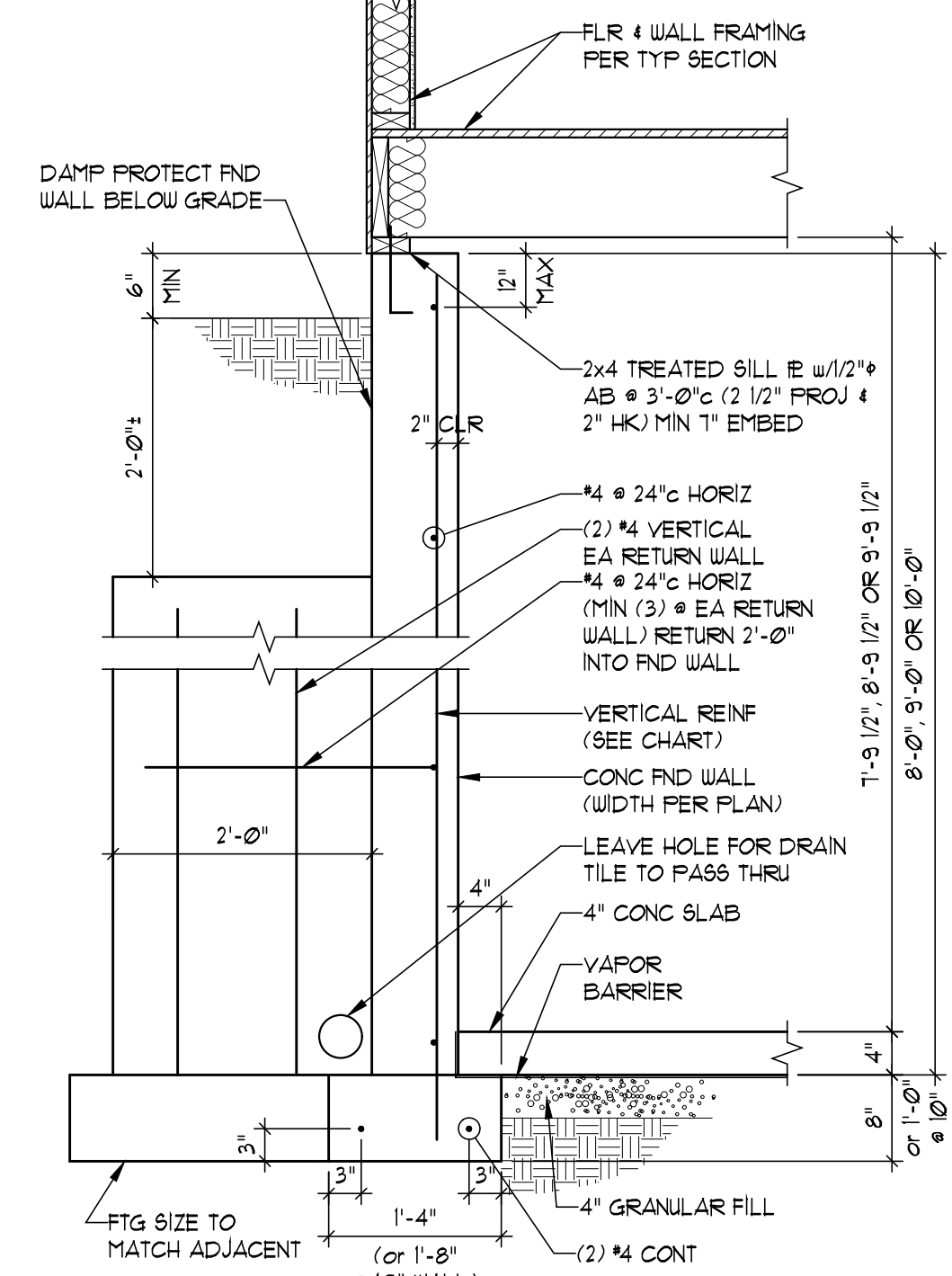


TYPICAL WINDOW WELL
SCALE: 3/4" = 1'-0"

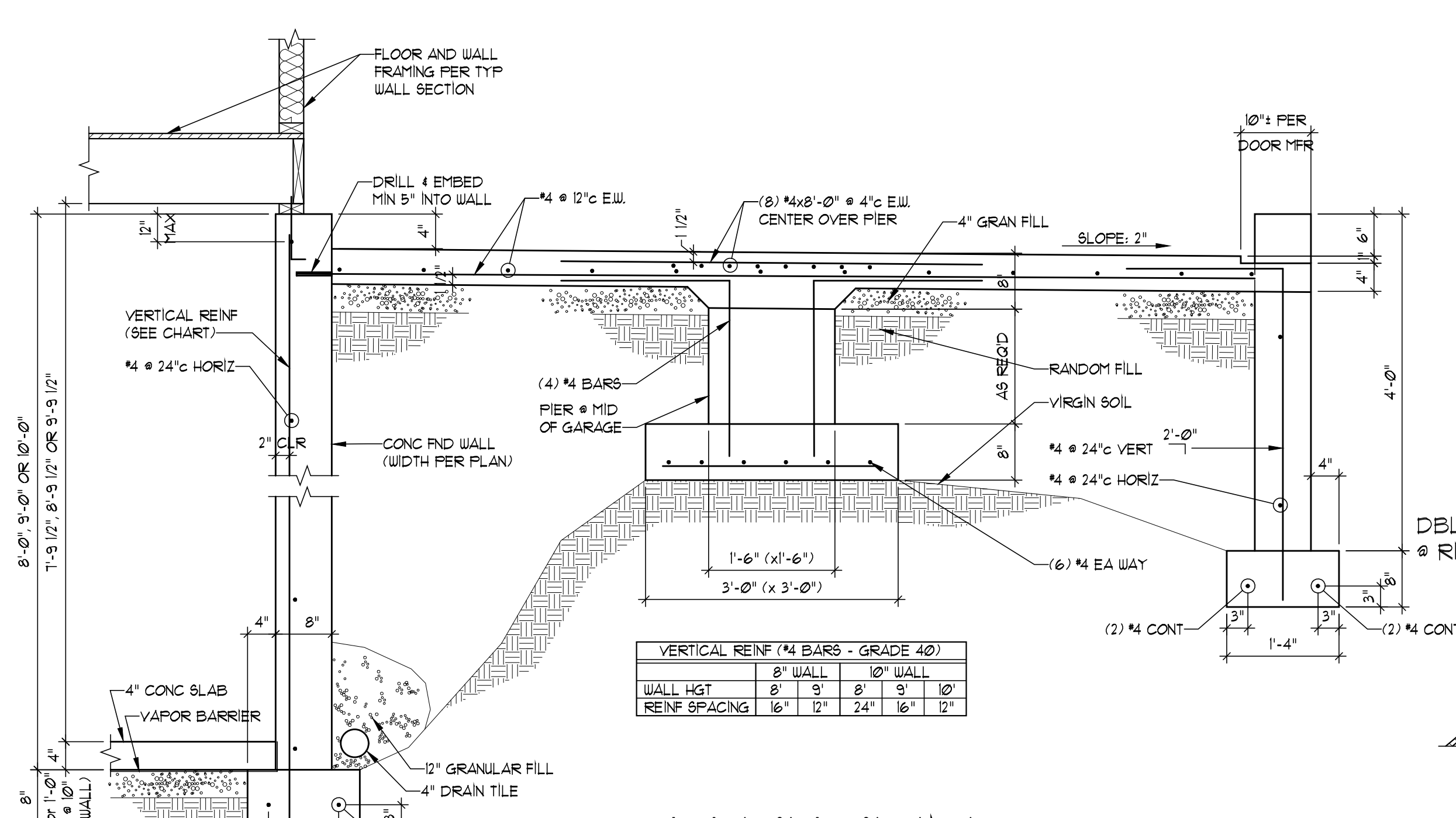


DECK ATTACHMENT
SCALE: 3/4" = 1'-0"

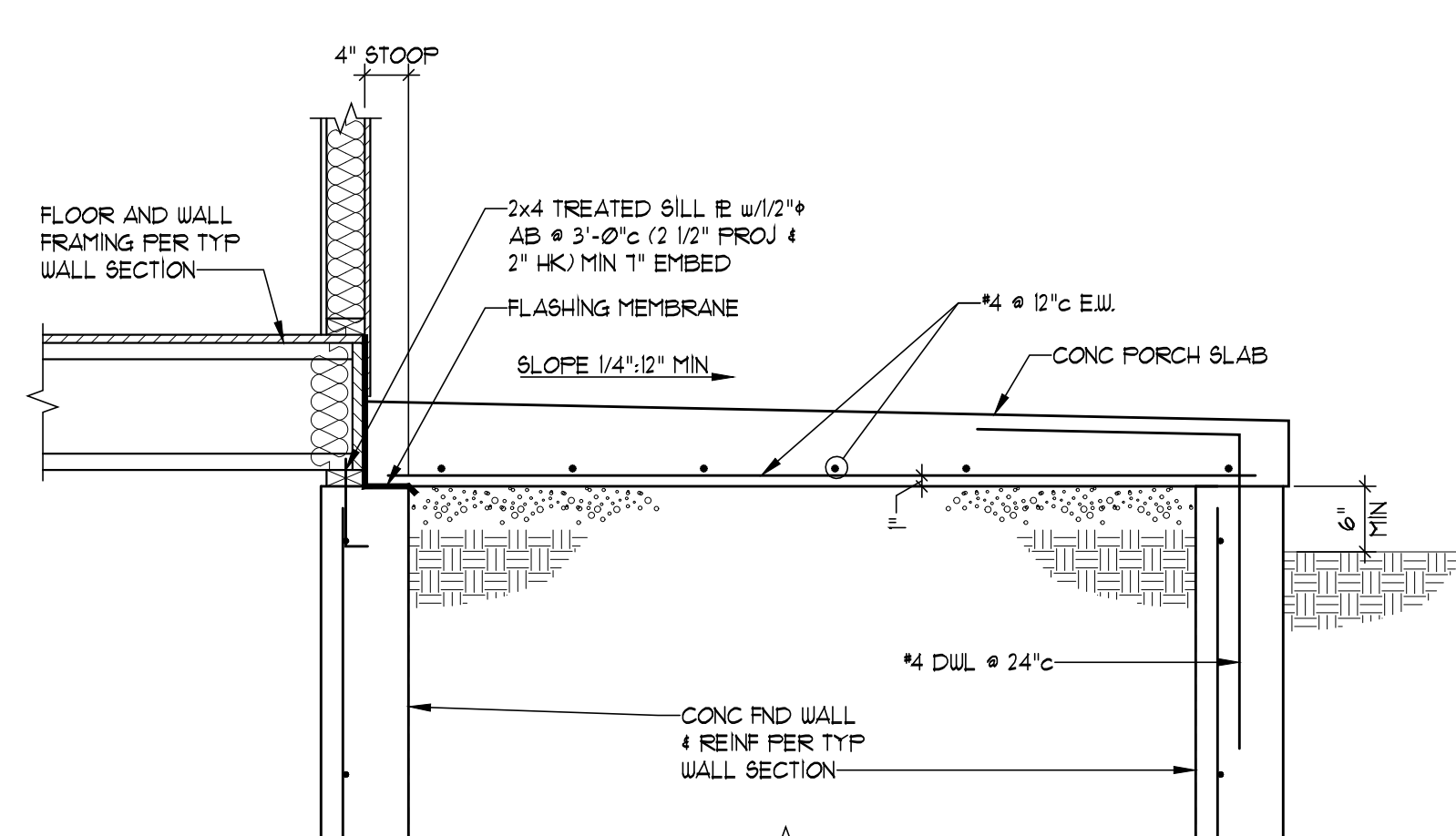
VERTICAL REIN (#4 BARS - GRADE 40)					
WALL HGT	8" WALL	9" WALL	10" WALL	12" WALL	16" WALL
REIN SPACING	16"	12"	24"	16"	12"



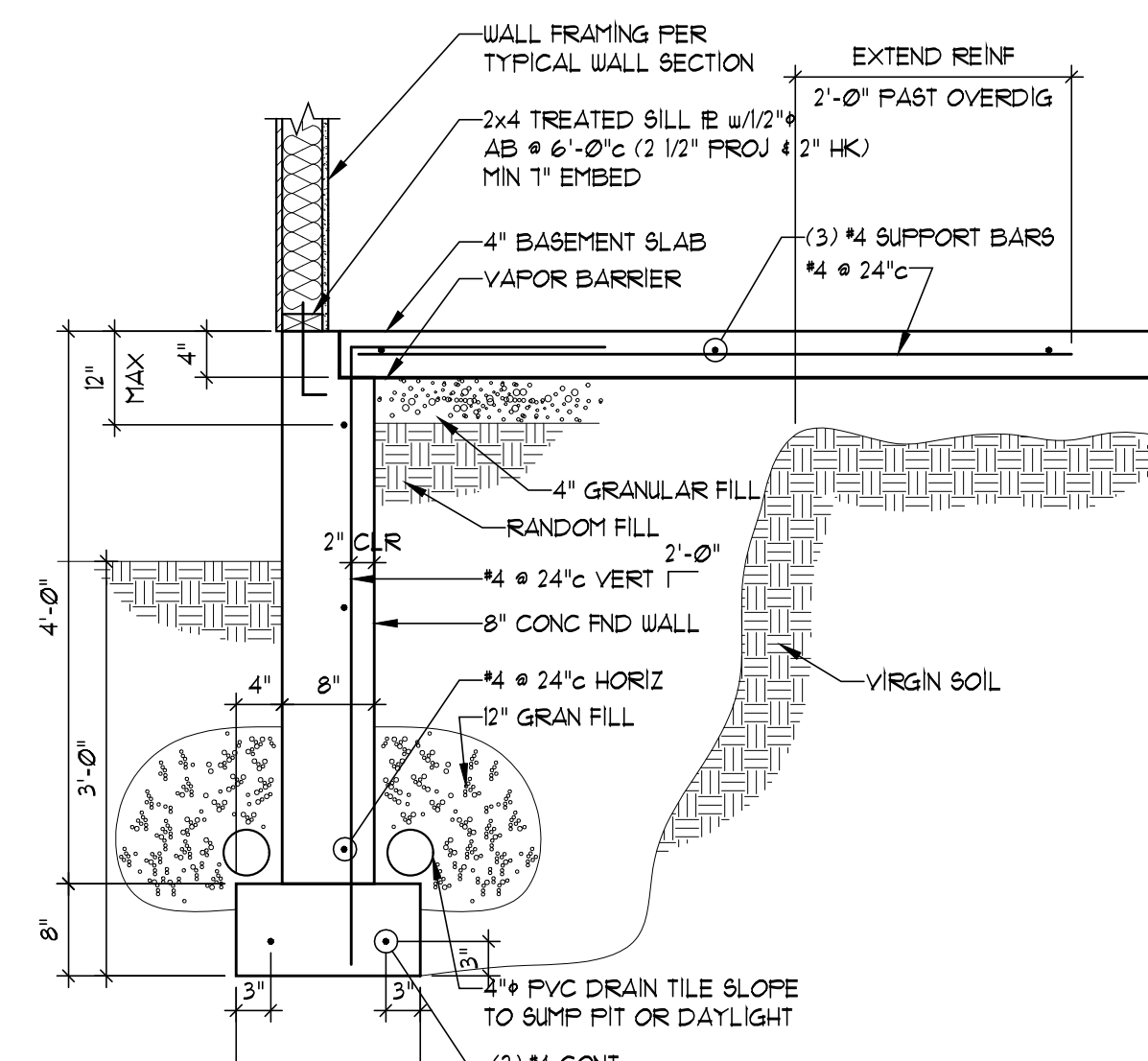
TYPICAL PILASTER SECTION
SCALE: 3/4" = 1'-0"



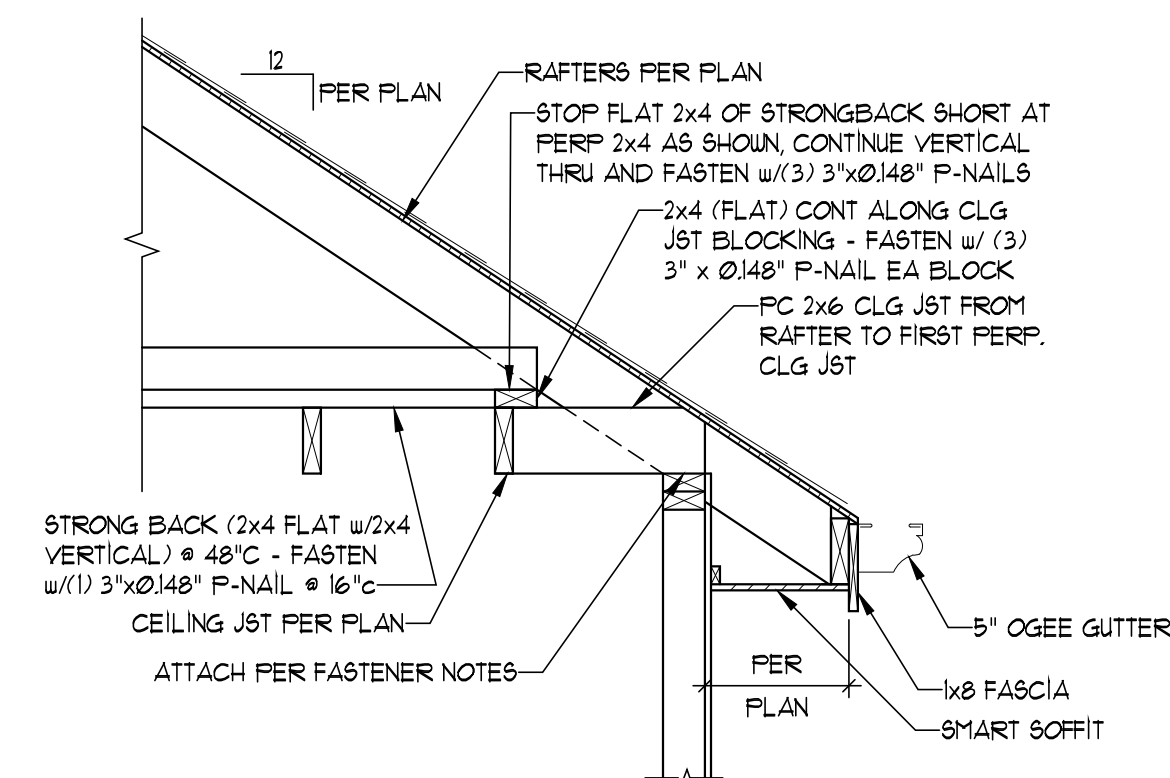
GARAGE SLAB SECTION
SCALE: 3/4" = 1'-0"



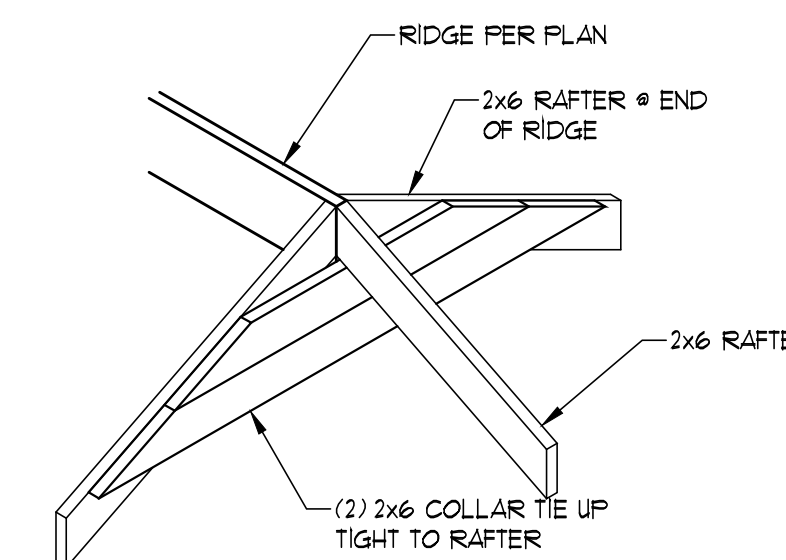
TYPICAL SECTION THRU PORCH
SCALE: 3/4" = 1'-0"



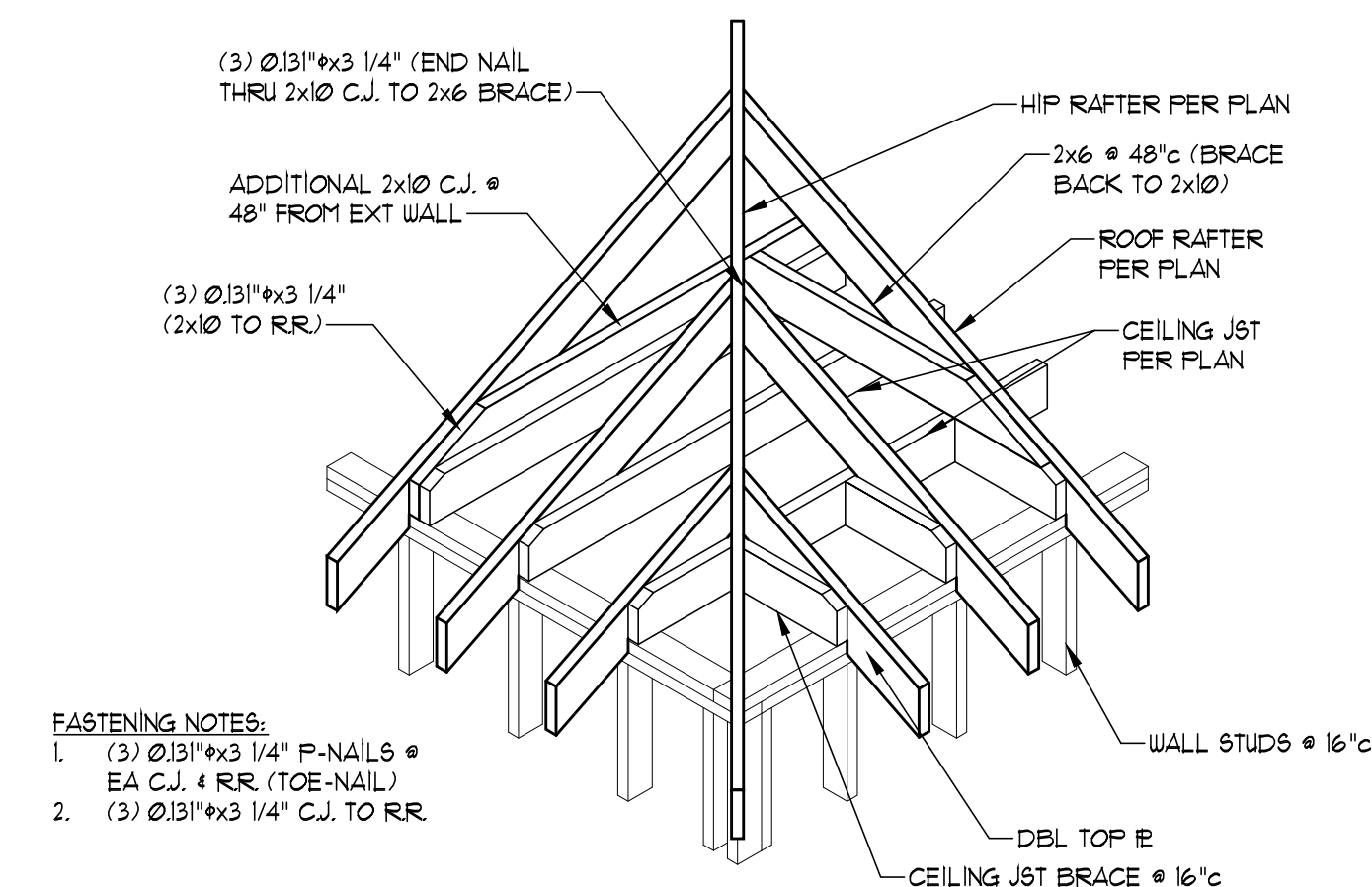
TYPICAL WALKOUT SECTION
SCALE: 3/4" = 1'-0"



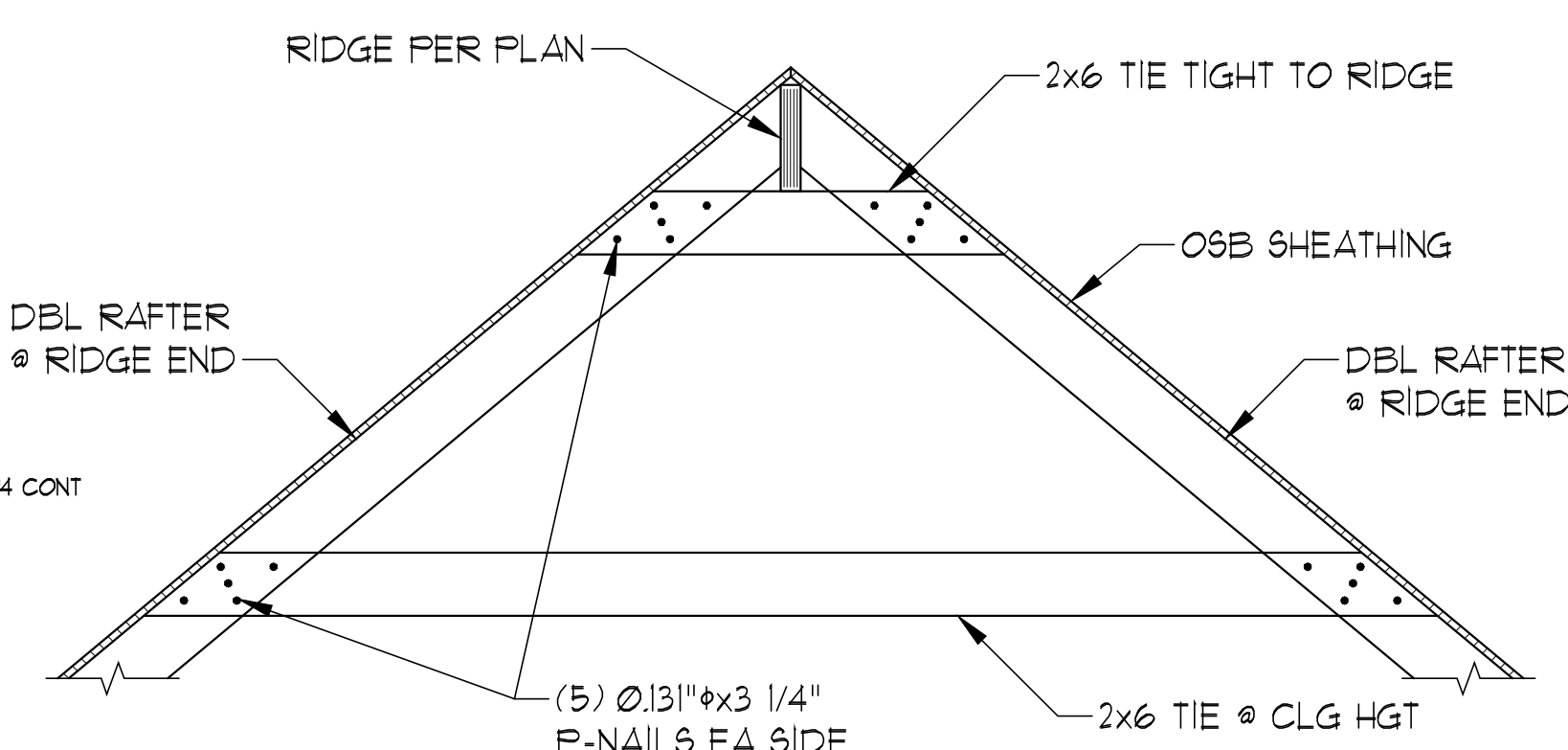
RAFTER ATTACHMENT AT PERPENDICULAR CONDITIONS
SCALE: 3/4" = 1'-0"



HIP RIDGE SUPPORT
SCALE: 1/2" = 1'-0"



CEILING JOIST AND ROOF RAFTER CONNECTION @ HIP
SCALE: 1/2" = 1'-0"



RIDGE SUPPORT DETAIL
SCALE: 1/2" = 1'-0"

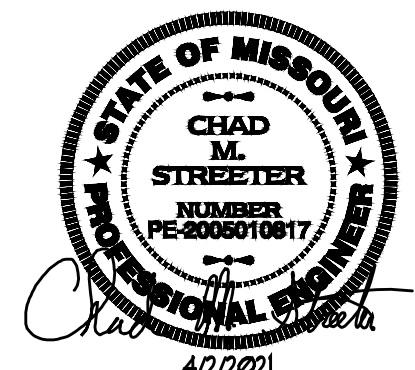


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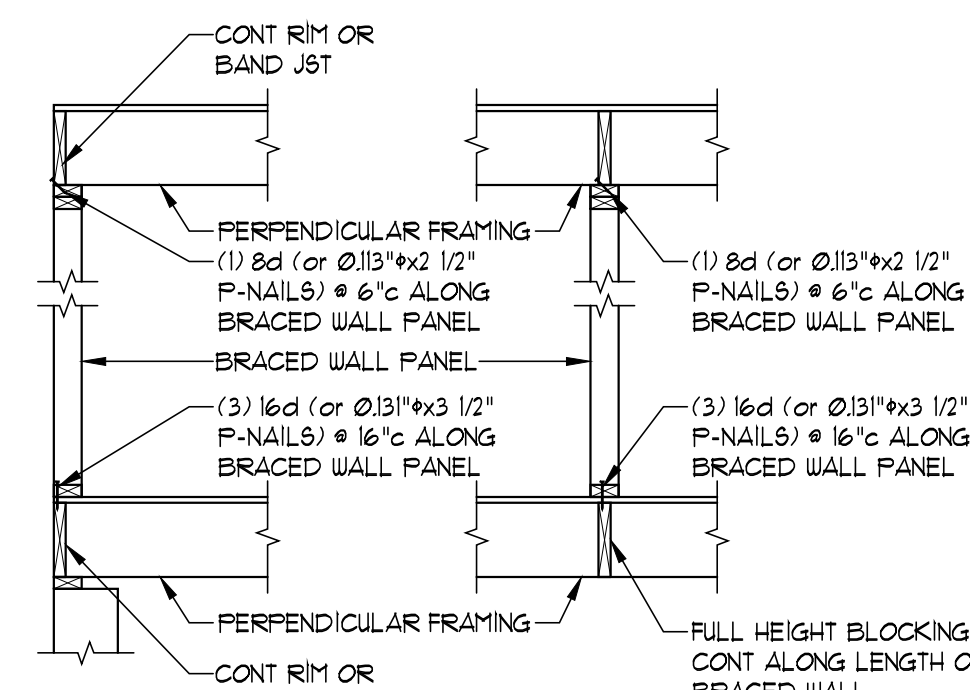
THE COVINGTON I

Chris and Tammy Wallerman
1808 SW River Run Drive, Lee's Summit, MO
Lot 15 - Whispering Woods Subdivision

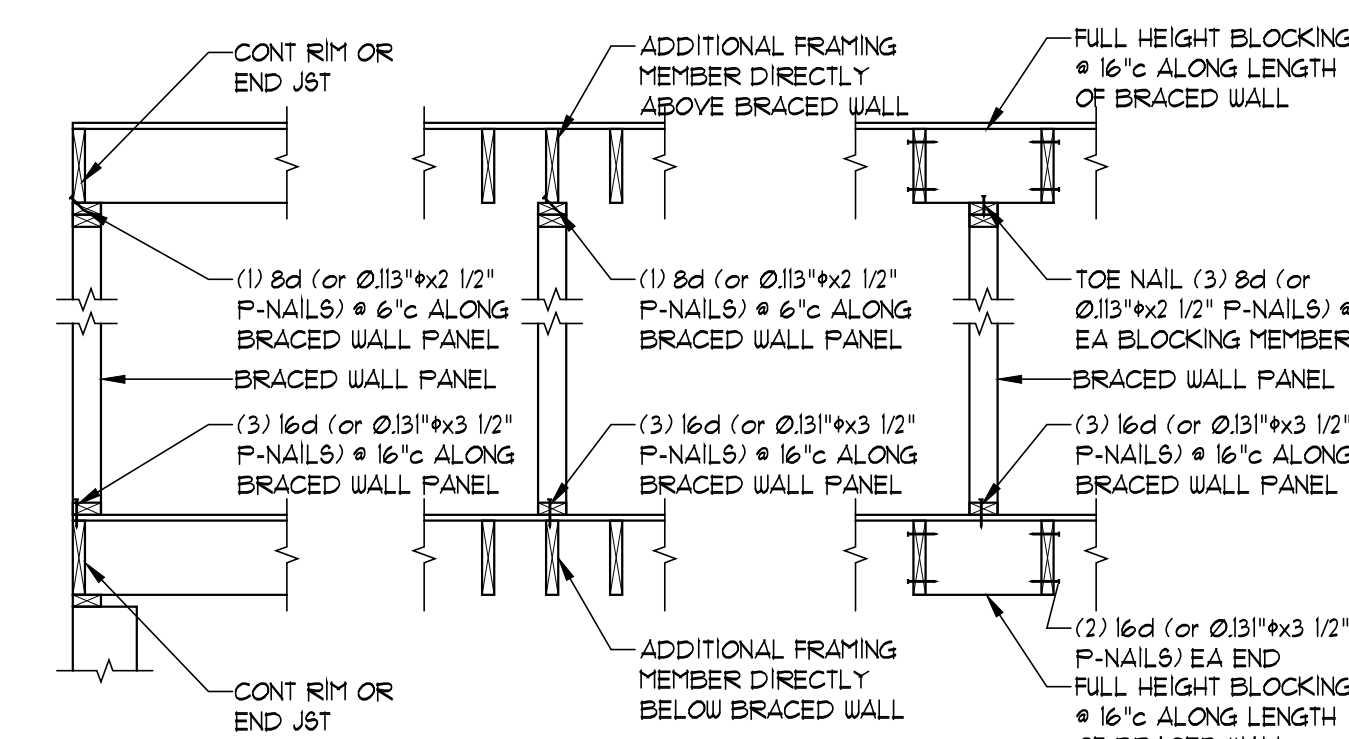
Project #: 8083-21xx
DATE:
For Permit: 4/2/2021

Framing Notes and Details

SEAL FOR
CONSTRUCTION
NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/27/2021



BAND JST
BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING



END 351

IRC FIGURE R602.10.8(2)

BRACED WALL PANEL CONNECTION WHEN
PARALLEL TO FLOOR/CEILING FRAMING

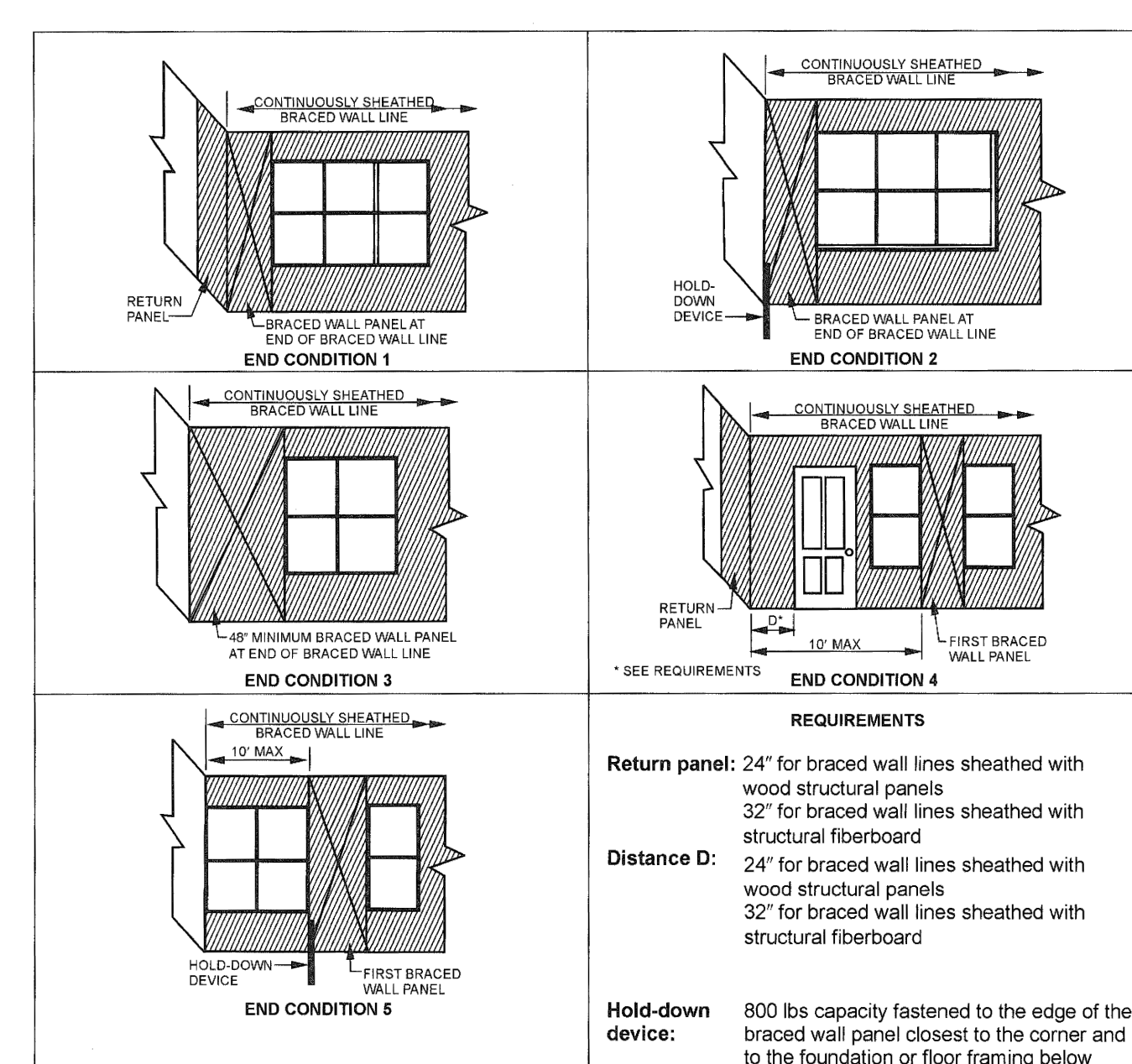
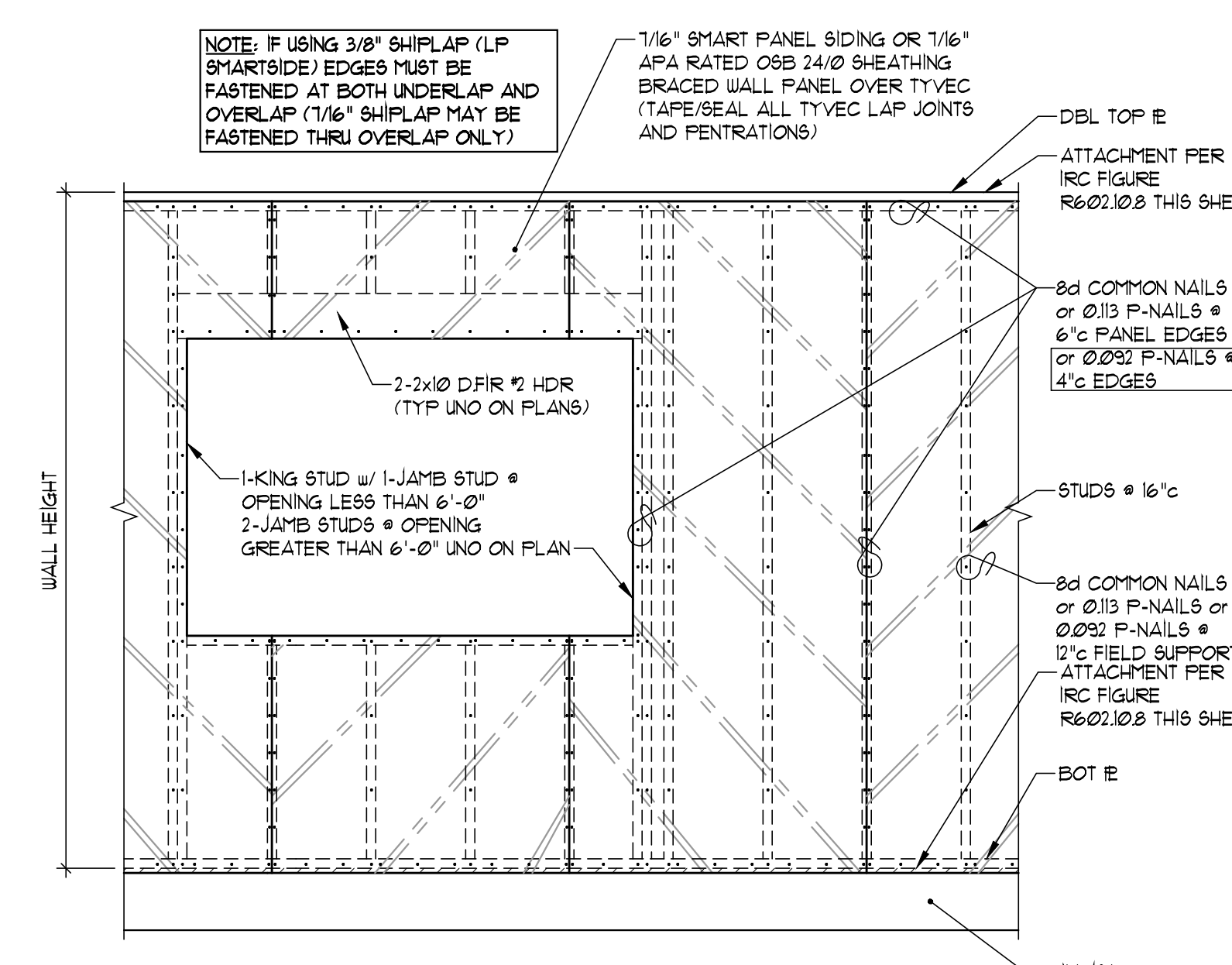
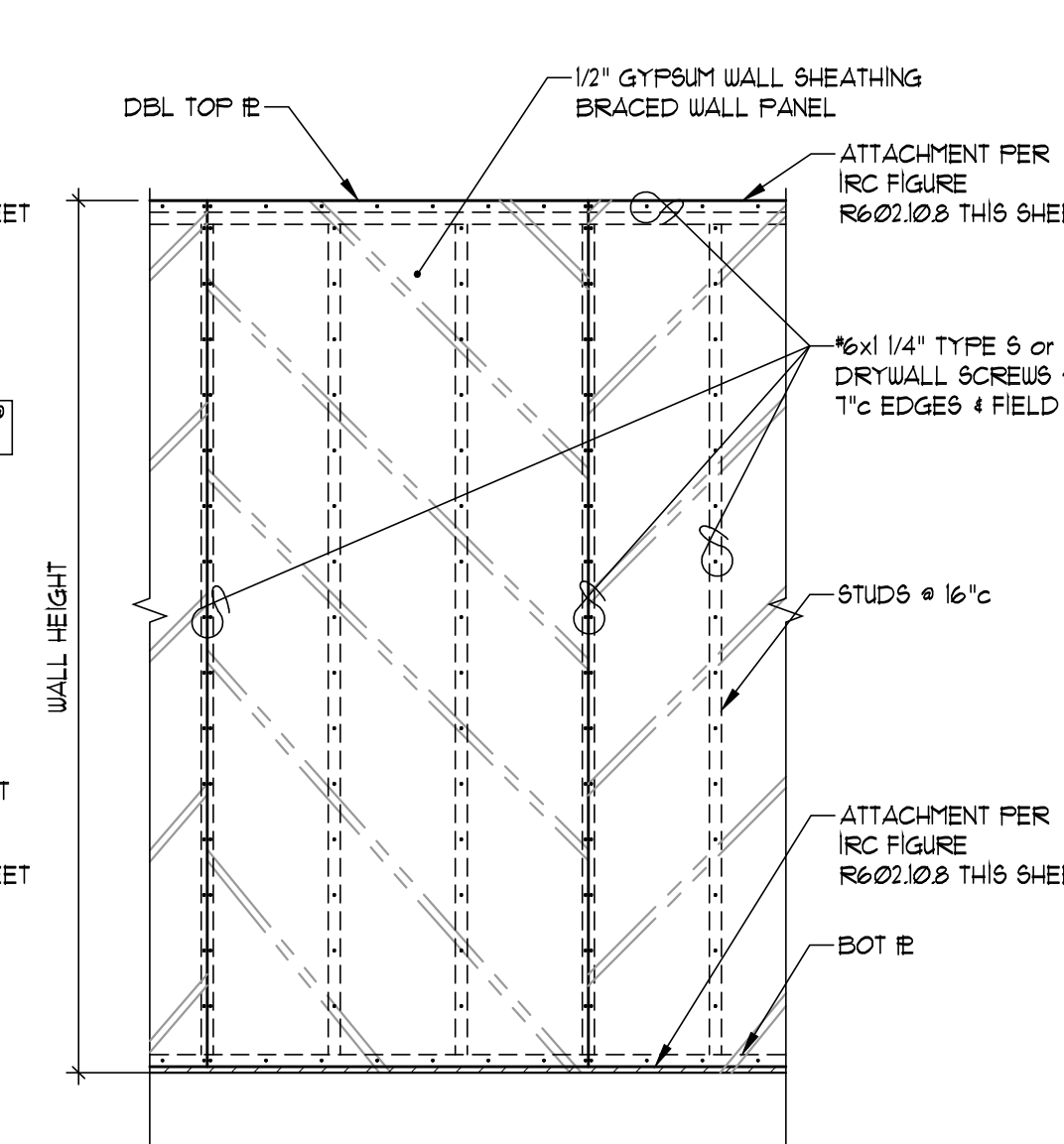


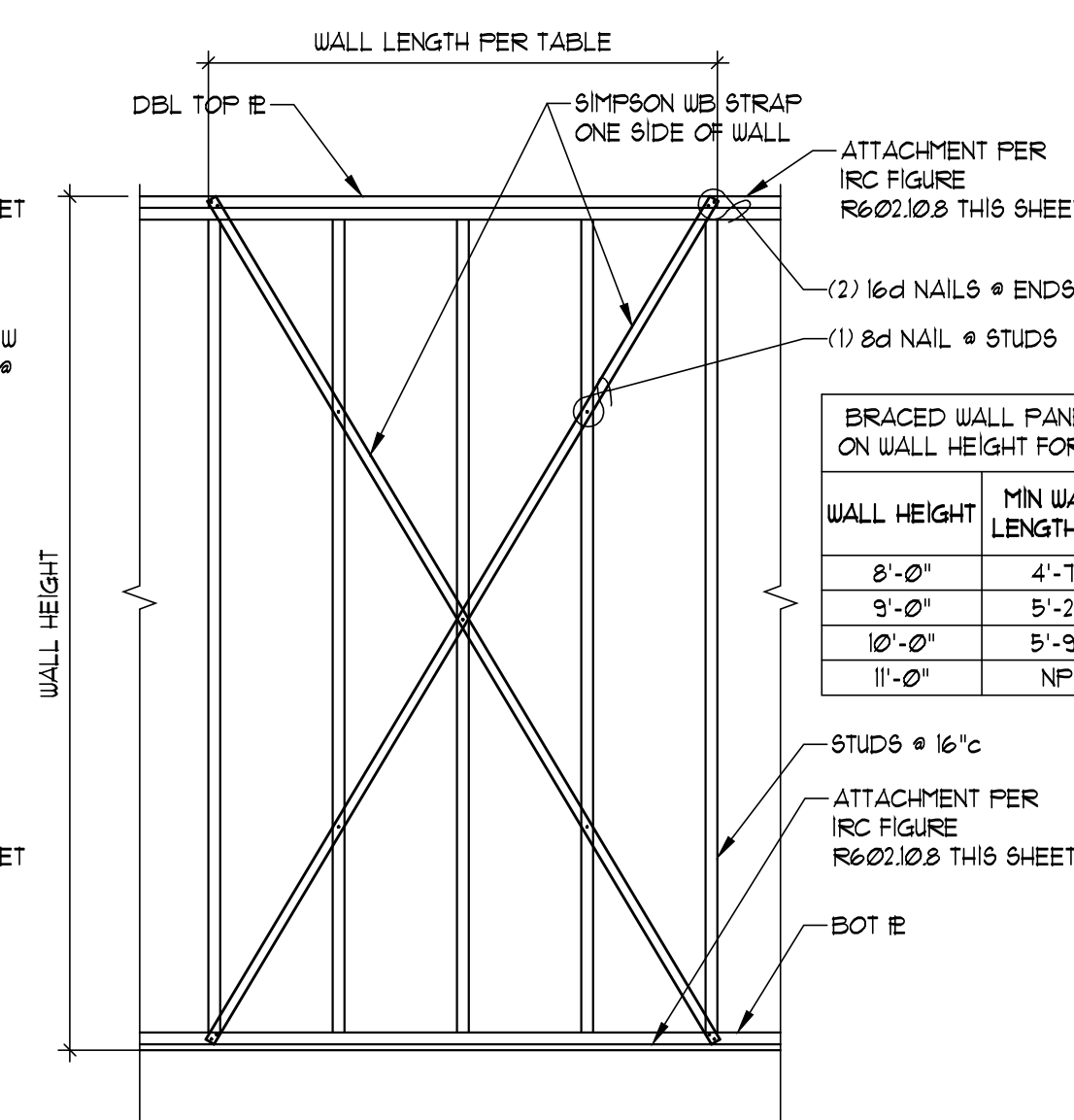
FIGURE R602.10.7
END CONDITIONS FOR BRACED WALL LINES WITH CONTINUOUS SHEATHING



TYPICAL EXTERIOR SHEATHING
INSTALLATION (METHOD WSP & CS-WSP)
SCALE: 1/2" = 1'-0"

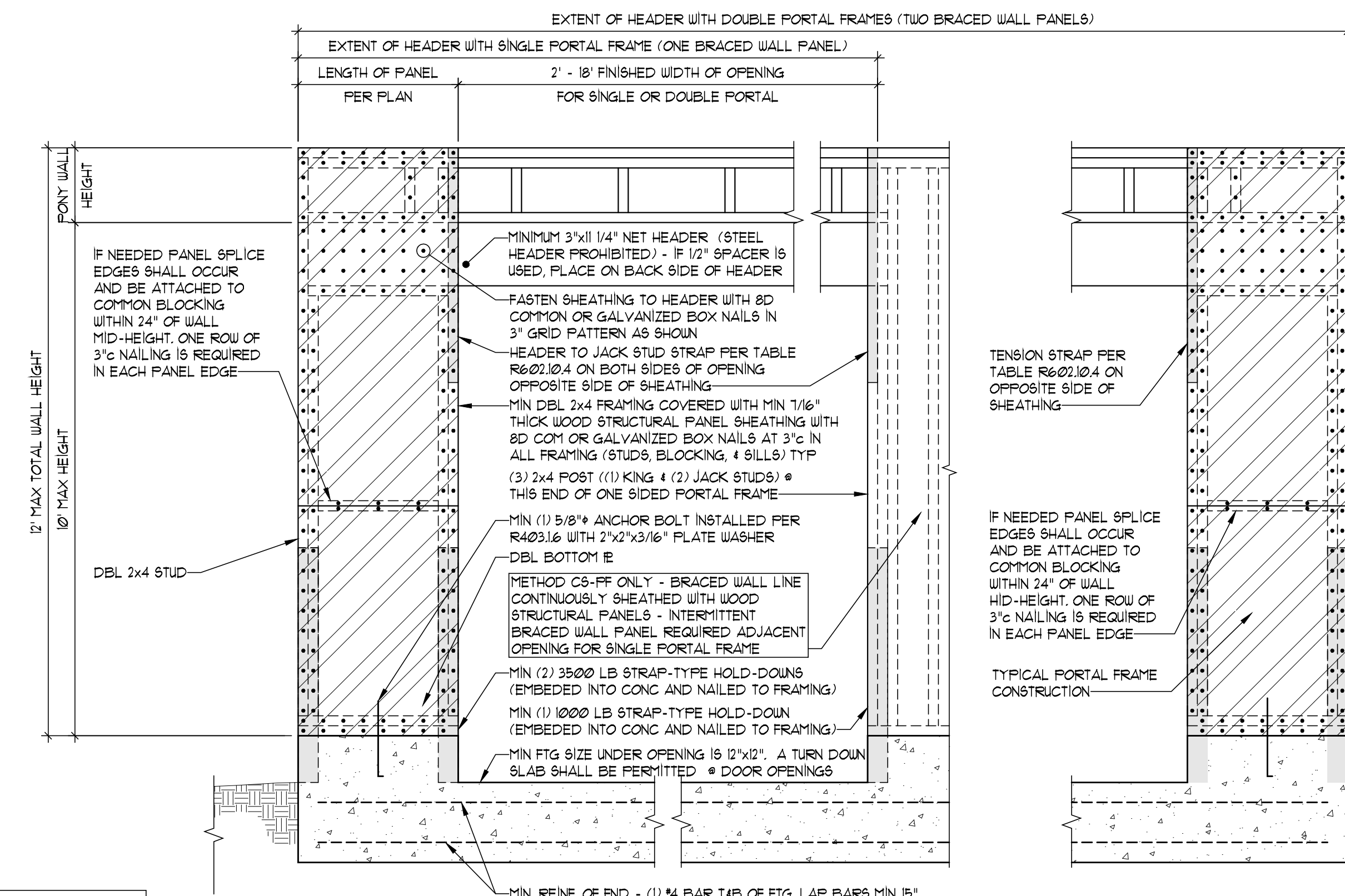


TYPICAL INTERIOR SHEATHING
INSTALLATION (METHOD GB)
SCALE: 1/2" = 1'-0"

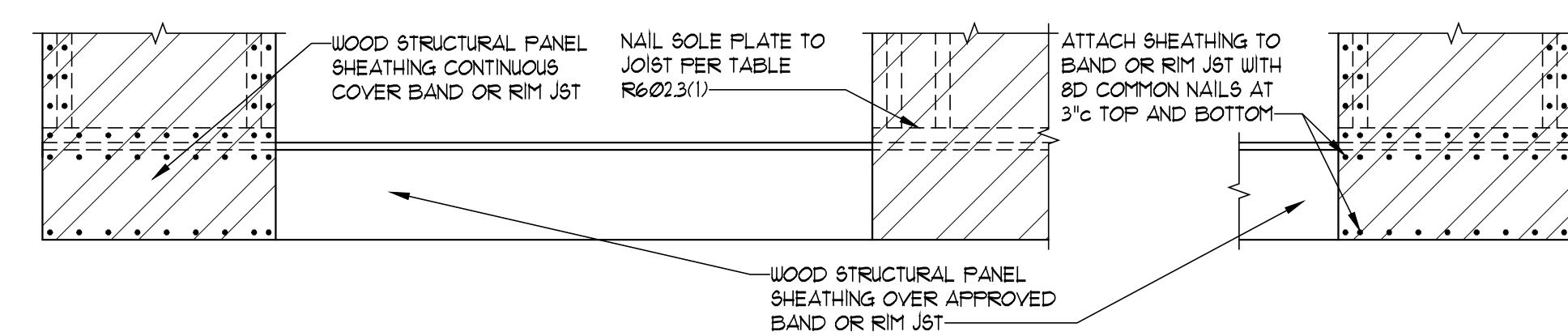


INTERIOR SHEATHING
INSTALLATION (METHOD LIB)
SCALE: 1/2" = 1'-0"

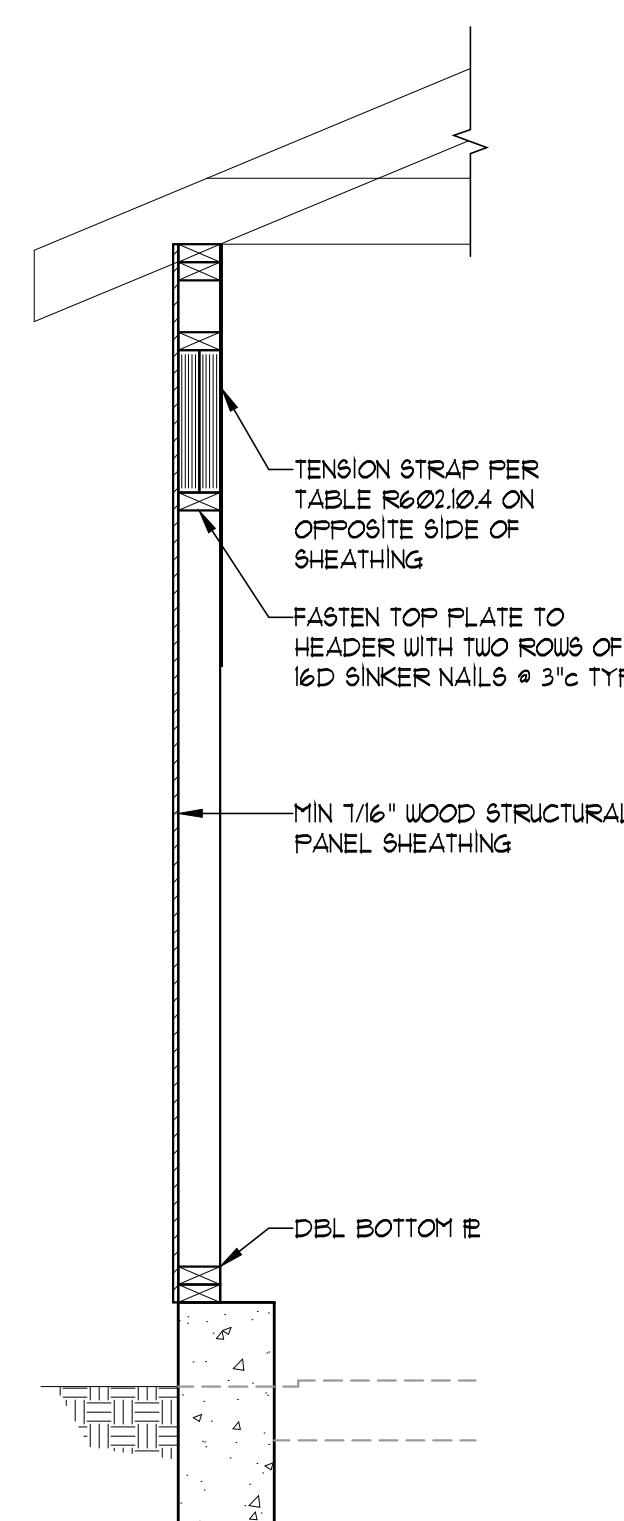
WALL HEIGHT	MIN WALL LENGTH (X)	MAX WALL LENGTH (X)
8'-0"	4'-7"	8'-0"
9'-0"	5'-2"	9'-0"
10'-0"	5'-9"	10'-0"
11'-0"	NP	NP



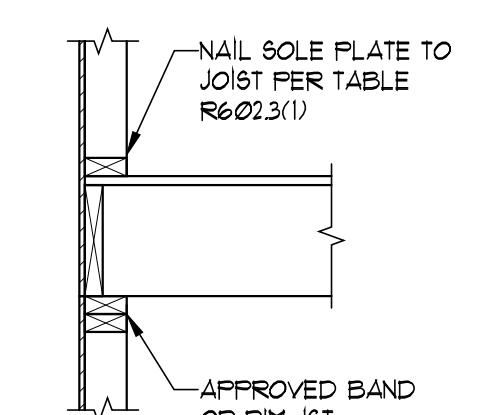
BRACED WALL METHOD "PFH" (also HEADER ATTACHMENT FOR CS-PF)



BRACED WALL METHOD "CS-PF" (ATTACHMENT TO WOOD FLOOR,
(REFER TO BRACED WALL METHOD "PFH" FOR HEADER ATTACH)
SCALE: 3/4"=1'-0"



SECTION



SECTION

MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GAGE	MAXIMUM PONY WALL HEIGHT (FEET)	MAXIMUM TOTAL WALL HEIGHT (FEET)	MAXIMUM OPENING WIDTH (FEET)	TENSION STRAP CAPACITY REQUIRED (LBS) FOR $V_{ult} = 15 \text{ mph}$	
				EXPOSURE B	EXPOSURE C
2x4 1/2 GRADE	1	10	9	1,000	1,000
			12	1,000	1,000
			16	1,025	2,500
			18	1,215	2,850
	2	10	9	1,000	1,815
			16	2,115	4,125
			18	2,500	DESIGN
			9	1,500	3,115
	2	12	16	3,315	DESIGN
			18	3,915	DESIGN
			9	2,150	DESIGN
			12	3,115	DESIGN
2x6 STUD GRADE	2	12	9	1,000	2,015
			16	2,150	3,615
			18	2,550	DESIGN
			9	1,150	3,125
	4	12	16	2,400	DESIGN

THE COVINGTON

Chris and Tammy Wallerman
1808 SW River Run Drive, Lee's Summit, MO
Lot 15 - Whispering Woods Subdivision

Project #: 8083-21x
DATE:
For Permit: 4/2/202

Framing Notes and Details

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVE
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

04/27/2021