

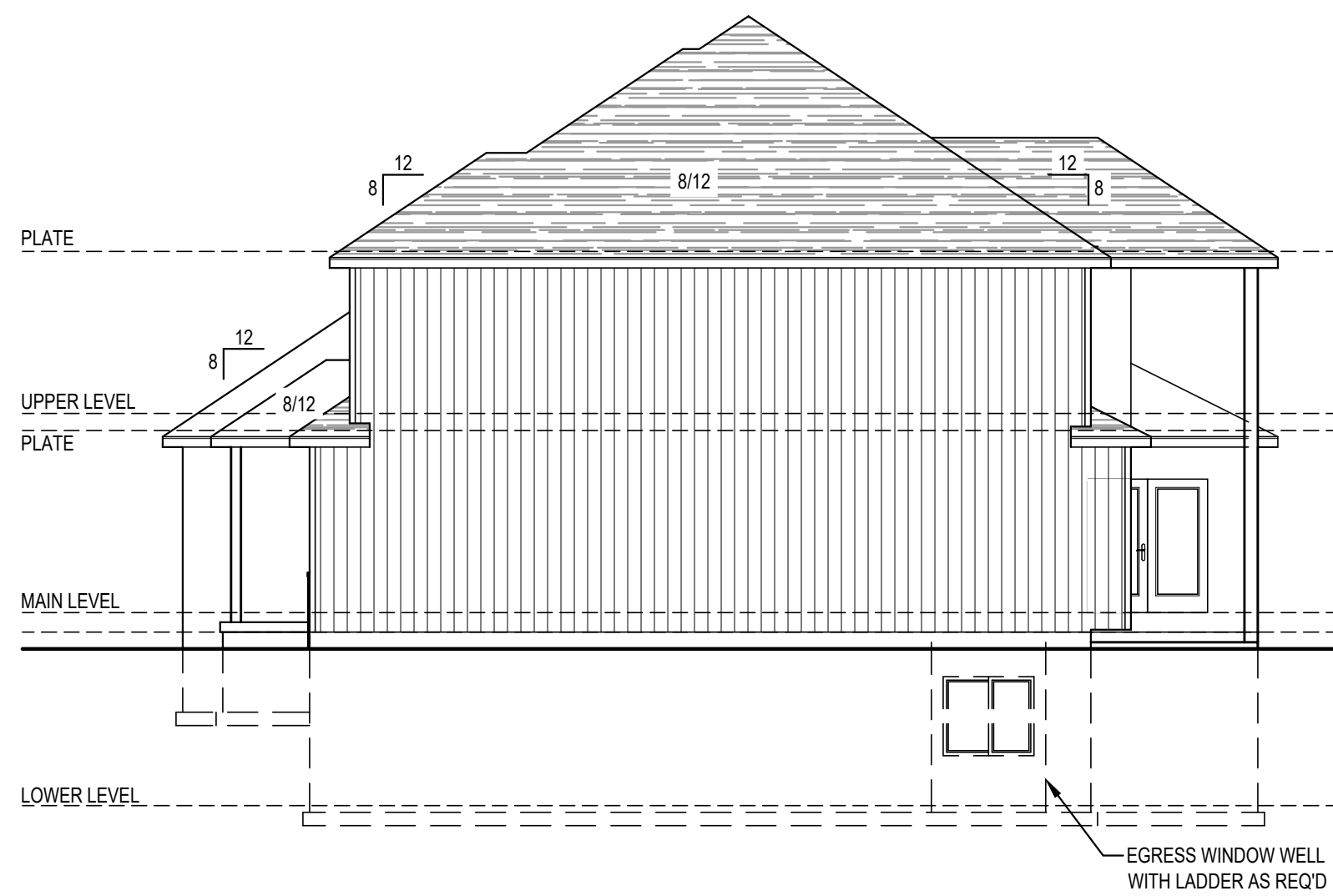
- ELEVATION NOTES**
1. FINAL GRADE LINE MAY VARY PER EXISTING SITE CONDITIONS. REFER TO PLOT PLAN FOR SPECIFIC SITE GRADE CONDITIONS.
 2. ALL ROOFING TO BE ASPHALT COMPOSITION UNLESS NOTED OTHERWISE.
 3. ROOF AND SOFFIT VENTS PER LOCAL CODES. WHERE POSSIBLE, PROVIDE ROOF VENTING ON BACK SIDE OF ROOF.
 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"

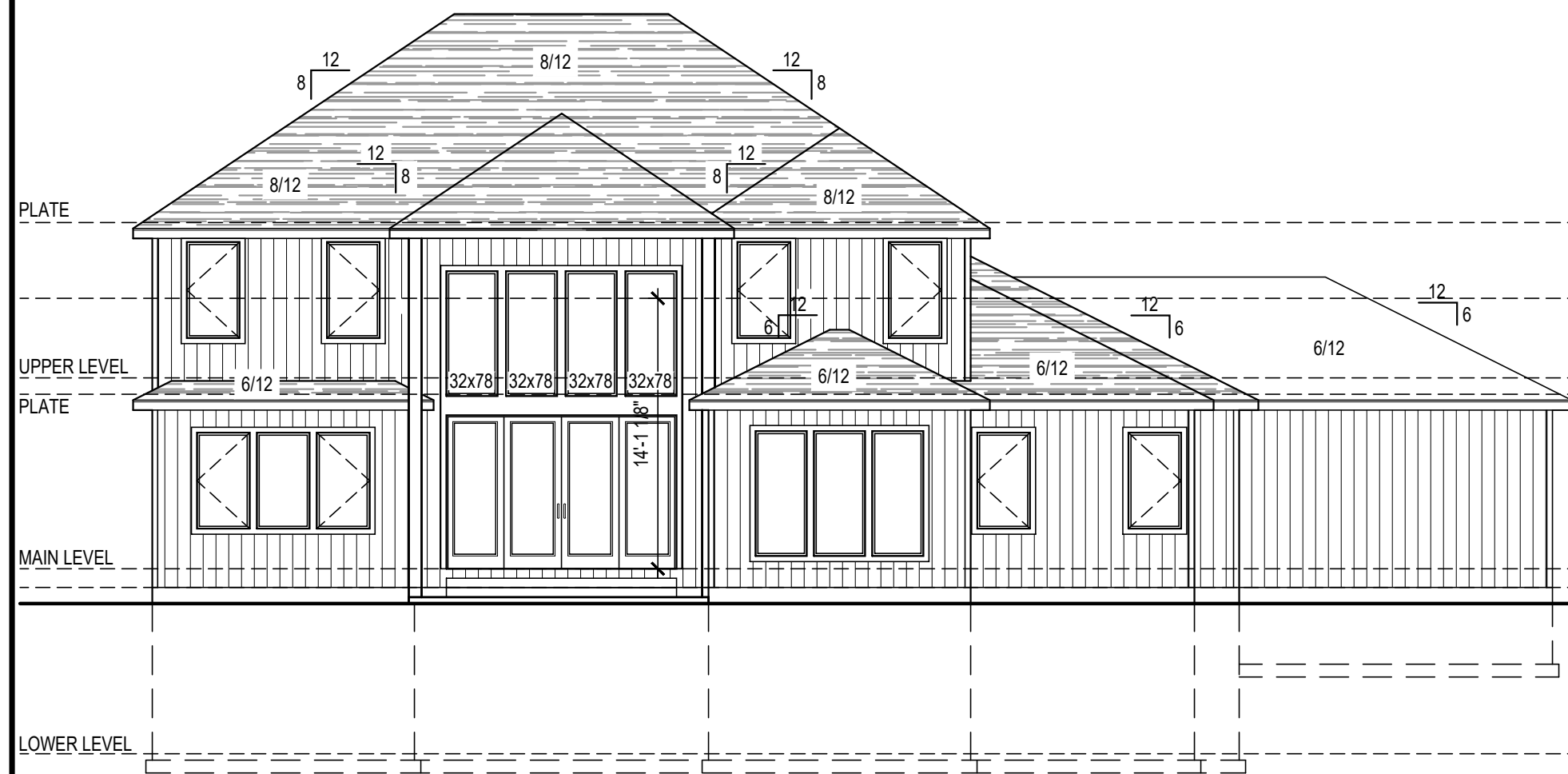
1



Side Left Elevation

1/8" = 1'-0"

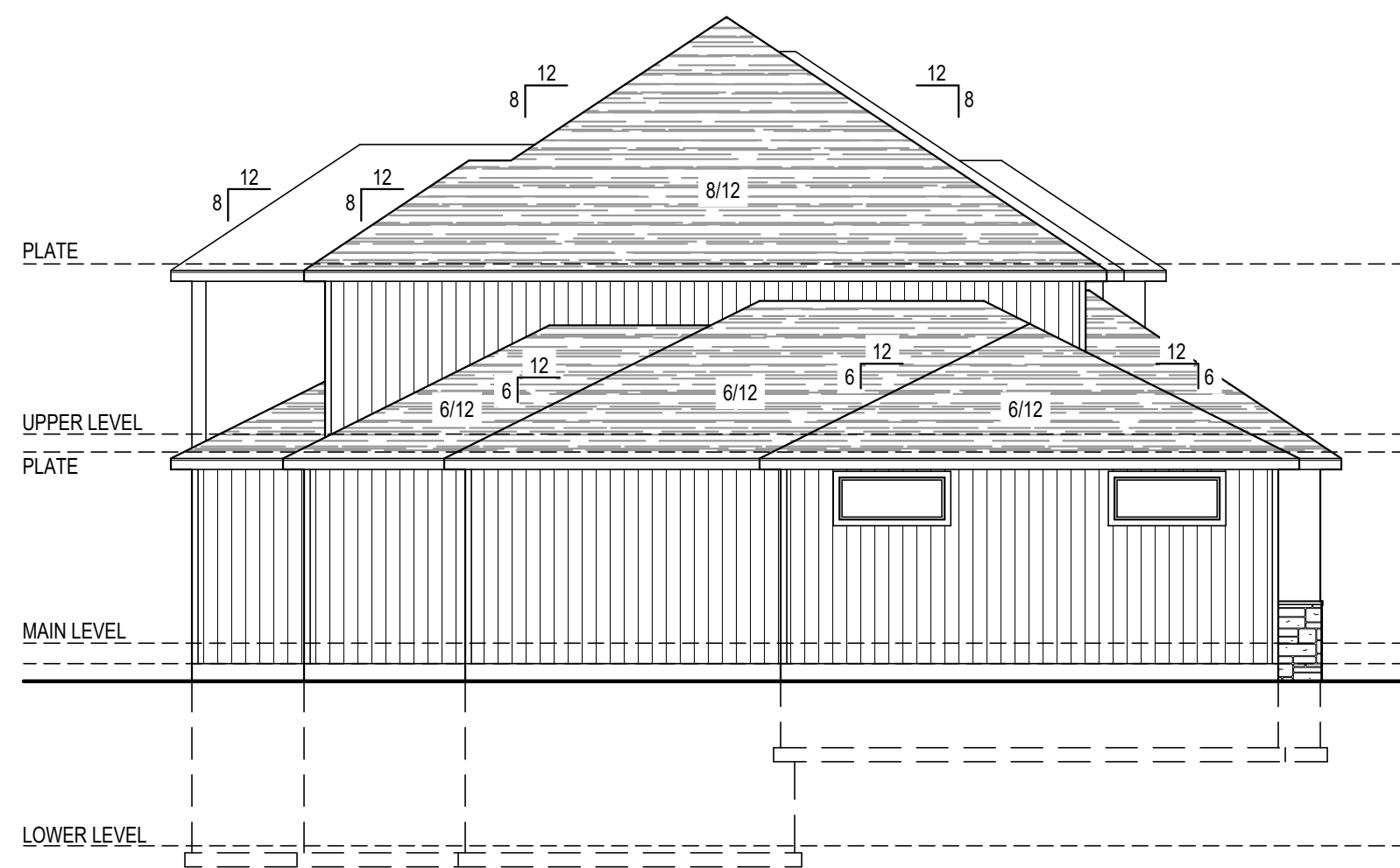
4



Rear Elevation

1/8" = 1'-0"

3



Side Right Elevation

1/8" = 1'-0"

2

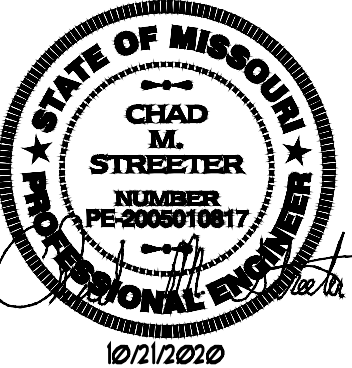


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THE WOODLAND CUSTOM

Vik and Alysha Kapur
1909 NE Park Ridge Dr, Lee's Summit, MO
Lot 298 - Park Ridge Subdivision

Project #: 8083-XXXX

DATE:

For Permit: 10/21/2020

Exterior
Elevations

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, WORKMENS 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: 1-800-344-7489). 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 36" 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 SPLICES 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 6.
- VAPOR BARRIER: 6 MIL PE VAPOR RETARDER WITH JOINTS LAPPED A MIN OF 6" 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 THE 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 "UFR" 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
A	36"x36"x12"	(6) #4 BAR E.W.	3'0" SCHED 40
B	42"x42"x14"	(7) #4 BAR E.W.	3'0" SCHED 40
C	48"x48"x16"	(8) #4 BAR E.W.	3'0" SCHED 40
D	54"x54"x18"	(9) #4 BAR E.W.	3 1/2'0" SCHED 40
E	60"x60"x18"	(10) #4 BAR E.W.	3 1/2'0" 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.

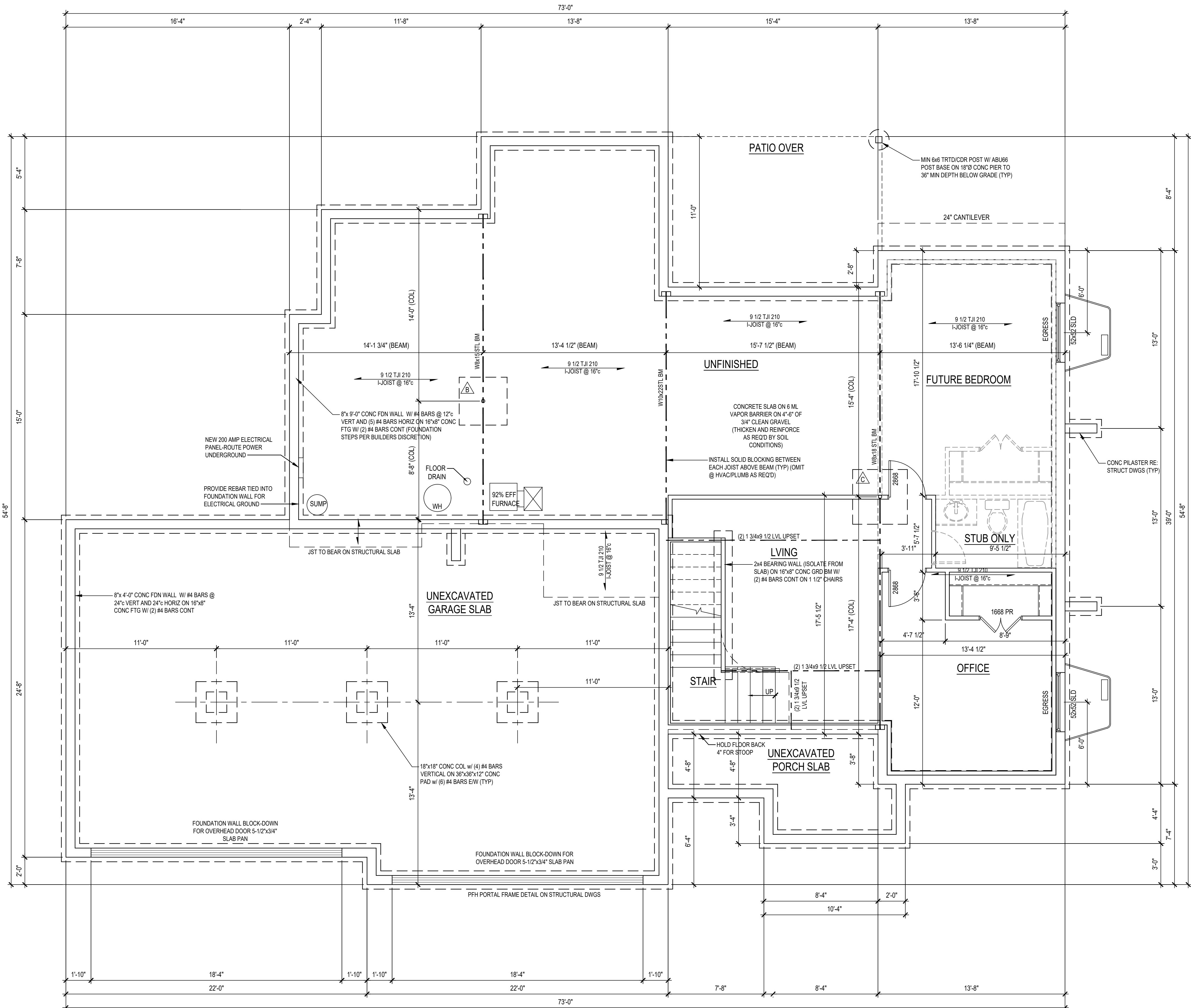
I JOIST AND TRUSS NOTES

- 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 81M CHORD AND NETTING PER APA FORM R425 METHOD 4



LOWER LEVEL
FINISHED AREA: 475 SF
UNFINISHED: 1125 SF

LOAD BEARING WALL
LOAD BEARING BEAM

Foundation Plan

1/4" = 1'-0"

1

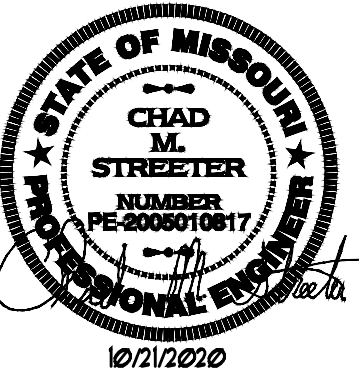


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THE WOODLAND CUSTOM

Vik and Alysha Kapur
1909 NE Park Ridge Dr, Lee's Summit, MO
Lot 298 - Park Ridge Subdivision

Project #: 8083-XXXX

DATE:

For Permit: 10/21/2020

Foundation
Plan

A101

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 "UPE" GROUND PER IRC 3608.1.
- REFER TO SHEET S3 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"x 120 NAILS @ 7" STAGGERED WITH (7) 3 1/4"x 120 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 RISE 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 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 J" 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 U 0.35 (MAX) SHGC 0.40 (MAX)
SKYLIGHTS	U-FACTOR U 0.55 (MAX) SHGC 0.40 (MAX)

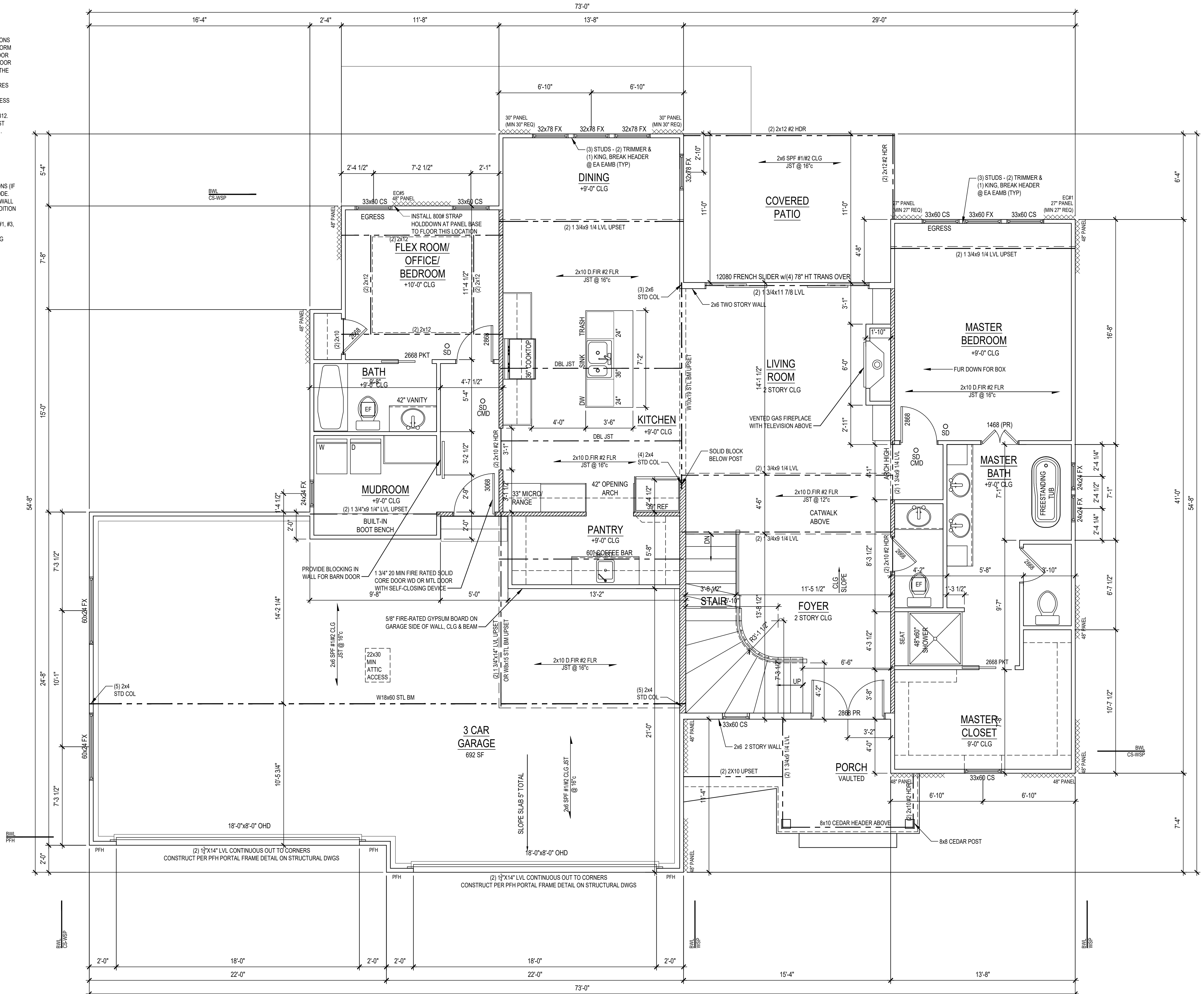
WINDOW AND DOOR NOTES

- 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 5.7 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 80FT OR LESS.

XXXXXX DENOTES EXTERIOR BRACED WALL WOOD STRUCTURAL PANEL (WSP or CS-WSP) ATTACHED PER DETAILS AND GENERAL NOTES



MAIN LEVEL
FINISH: 1844 SF
GARAGE: 988 SF

LOAD BEARING WALL
LOAD BEARING BEAM

First Floor Plan

1/4" = 1'-0"

1

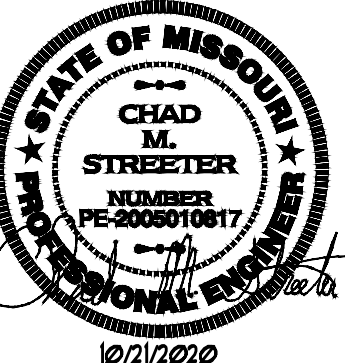


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Vik and Alysha Kapur
1909 NE Park Ridge Dr, Lee's Summit, MO
Lot 298 - Park Ridge Subdivision

Project #: 8083-XXXX

DATE:

For Permit: 10/21/2020

First Floor
Plan

A102

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- 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 TO BE GREATER THAN WINDOWS TO BE (2) 2x4 STUDS UNLESS NOTED OTHERWISE. WINDOW HEADER BEARING TO BE (1) 2x4 EA END UNLESS NOTED OTHERWISE.
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WALLS	R-13
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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	R-8
WINDOWS	U-FACTOR U 0.35 (MAX) SHGC 0.40 (MAX)
SKYLIGHTS	U-FACTOR U 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.
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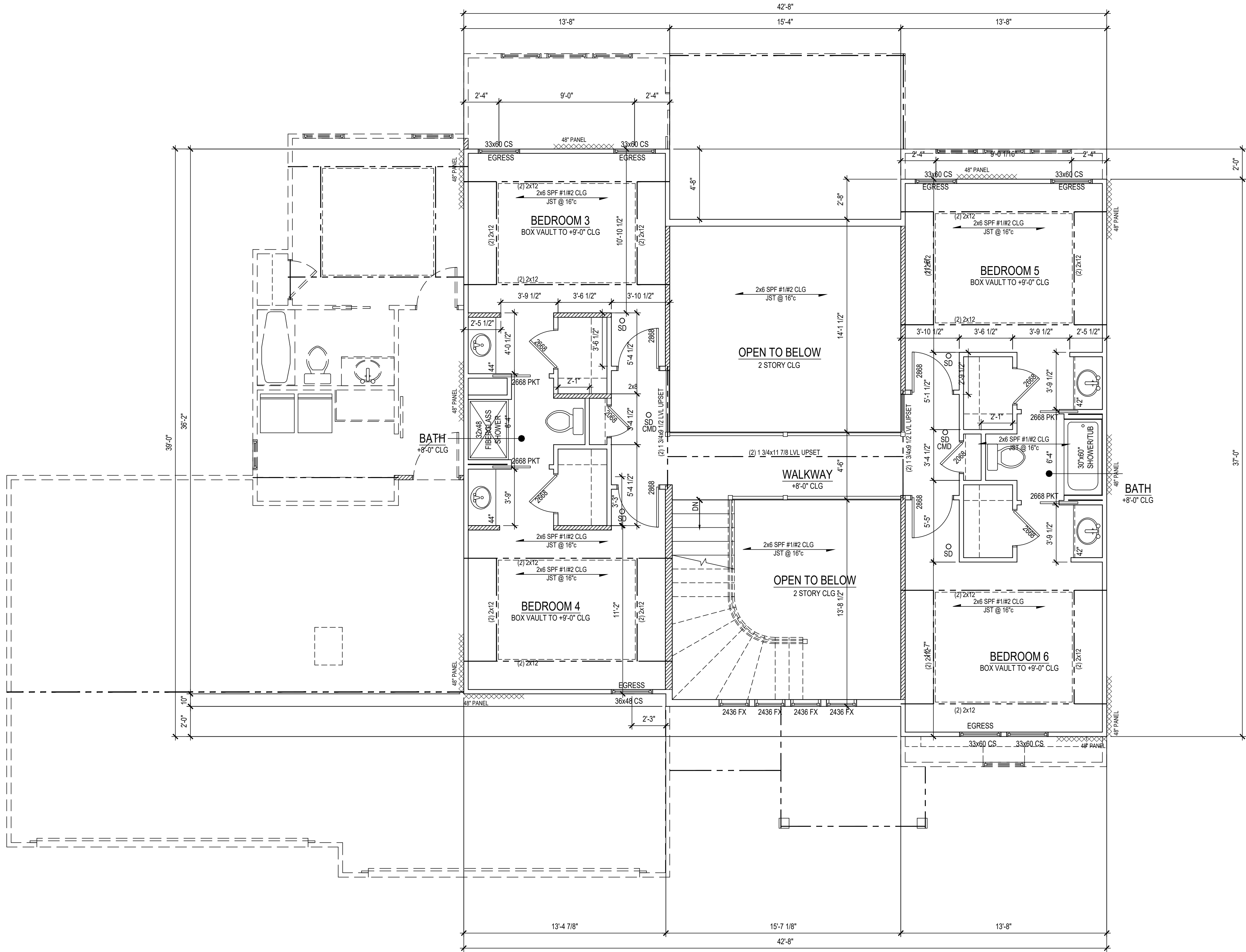
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XXXXXXXXXXXXX DENOTES EXTERIOR BRACED WALL WOOD
XX" PANEL STRUCTURAL PANEL (WSP or CS-WSP)
ATTACHED PER DETAILS AND GENERAL NOTES



UPPER LEVEL
FINISH: 1096 SF

LOAD BEARING WALL
LOAD BEARING BEAM

Second Floor Plan

1/4" = 1'-0"

1



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Second Floor
Plan

A103

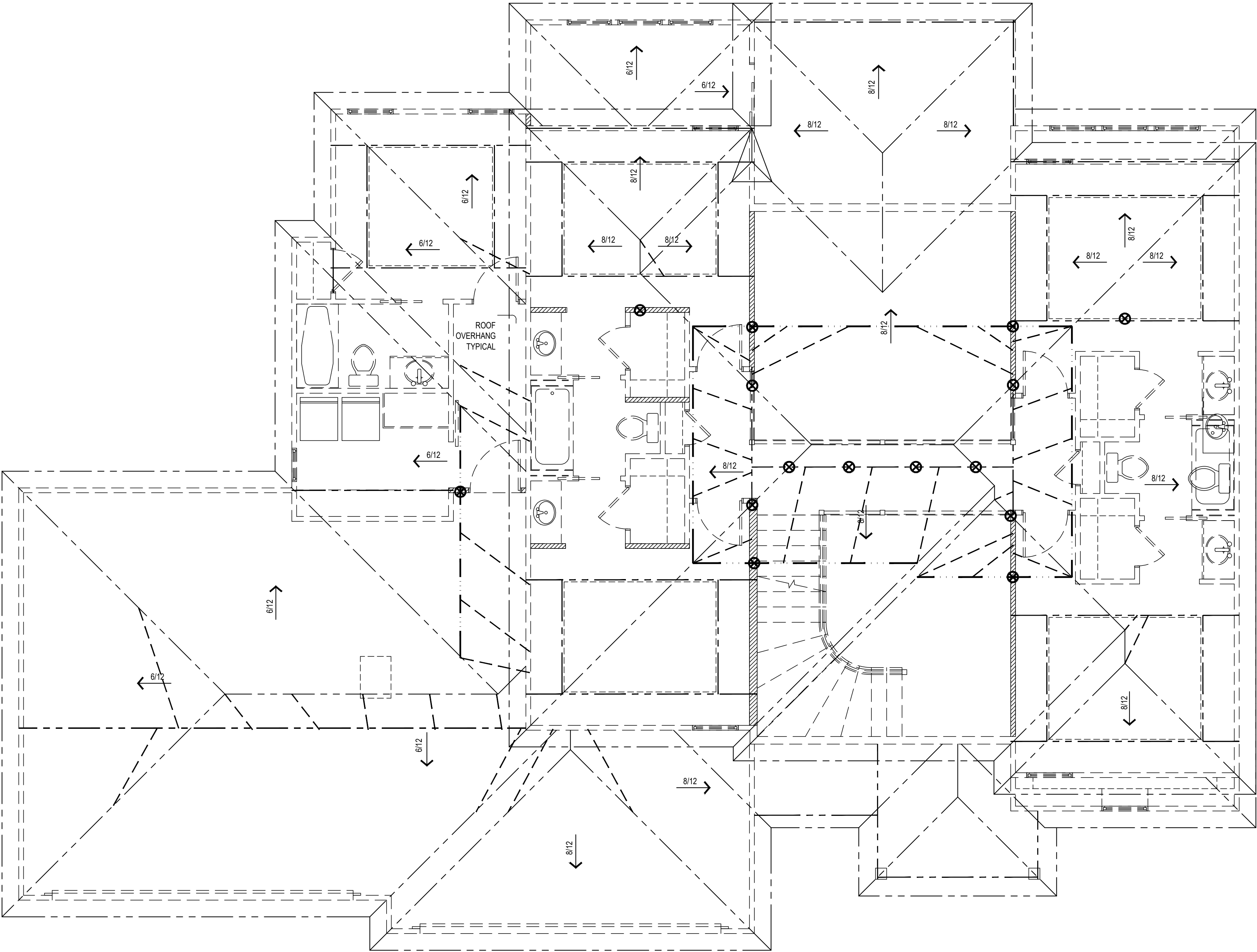
ROOF PLAN NOTES

- 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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THE WOODLAND CUSTOM

Vik and Alysha Kapur
1909 NE Park Ridge Dr, Lee's Summit, MO
Lot 298 - Park Ridge Subdivision

Project #: 8083-XXXX

DATE:

For Permit: 10/21/2020

Roof
Plan

A104

DIVISION 1 - GENERAL REQUIREMENTS

- | | |
|------------------------------------|---------|
| Floor Joist Deflection (Total) | L/240 |
| Floor Joist Deflection (Live) | L/960 |
| Attic Storage (Live Loads) | 10 PSF |
| Ceiling Dead Load | 6 PSF |
| Ceiling Live Deflection | L/240 |
| B. Roof Live Load | 20 PSF |
| C. Roof Snow Load: | |
| Ground Snow Load, p_g | 20 PSF |
| Flat Roof Snow Load, p_f | 20 PSF |
| Snow Exposure Factor, C_e | 1.0 |
| Snow Load Importance Factor, I_s | 1.0 |
| Thermal Factor, C_t | 1.0 |
| D. Wind Load: | |
| Basic Wind Speed (Vult) | 115 MPH |
| Risk Category | II |
| Exposure | B |
| Internal Pressure Coefficient | +0.18 |

1. The contractor shall employ the services of a geotechnical engineer to observe, test and approve

2. The minimum soil bearing capacity is 1500 PSF in accordance with Table 1809.2 of the International Building Code.
3. All materials are designed to support a minimum undisturbed soil bearing capacity of 1500 PSF. If the bearing capacity is not adequately determined by a geotechnical investigation, the design shall not rely on the bearing capacity of the undisturbed soil at the elevation indicated on the drawing, contractor shall notify the engineer immediately.
4. All types of organic material and existing structures shall be removed from building area and from the project site.
5. At typical, generic material and existing structures shall be removed from building area and from the project site. Stockpile all topsoil for reuse.
6. **Control Fill Materials**
 - a. **Control Fill I** - Gravelly fill shall consist of washed, evenly graded granules of crushed stone, or crushed or crushed gravel, with 100 percent passing a 1/2 inch sieve and not more than 5 percent passing no. 4 sieve.
 - b. **Shrinkage-Swell Control Fill II** - Shrinkage-swell control fill shall consist of material having a maximum clay plasticity with a liquid limit of less than 45 percent and a plasticity index of less than 21 percent.
 - c. **Control Fill III** - Controlled fill shall be either granular or shrinkage-swell control fill as specified in the previous paragraph by the geotechnical engineer.
 - d. **Control fill 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.**
7. **Foundation Preparation**
 - a. **Profile soils to identify soft or disturbed areas.** If areas are found to be unsuitable for support for footings and/or slab-on-grade place contact the Engineer of Record.
 - b. **Excavate directly under slab-on-grade with minimum of 4 inches of granular fill consisting of material having a maximum clay plasticity with a liquid limit of less than 45 percent and 100 percent passing a 1/2 inch sieve and not more than 5 percent passing no. 4 sieve.**

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS ^R & c		SPACING AND LOCATION
		COMMON NAIL	PNEUMATIC NAIL	
ROOF				
1	Blocking between ceiling joists or rafters to top plate	(4) 8d box (3) 8d common (3) 10d box	(4) 2 1/2" x 0.113" (3) 2 1/2" x 0.131" (3) 3" x 0.128" (3) 3" x 0.131"	Toe nail
2	Ceiling joists to top plate	(4) 8d box (3) 8d common (3) 10d box	(4) 2 1/2" x 0.113" (3) 2 1/2" x 0.131" (3) 3" x 0.128" (3) 3" x 0.131"	Per joist, toe nail
3	Ceiling joist not attached to parallel rafter, laps over partitions	(4) 10d box (3) 16d common	(4) 3" x 0.128" (3) 3 1/2" x 0.162" (3) 3" x 0.131"	Face nail
4	Ceiling joist attached to parallel rafter (heel joint)	Table R802.5.1(9)		Face nail
5	Collar tie to rafter, face nail or 114" x 20ga. ridge strap to rafter	(4) 10d box (3) 16d common	(4) 3" x 0.128" (3) 3" x 0.148" (3) 3" x 0.131"	Face nail each rafter
6	Rafter or roof truss to plate	(3) 16d box (3) 16d common (4) 10d box	(3) 3 1/2" x 0.135" (3) 3" x 0.148" (4) 3" x 0.128" (4) 3" x 0.131"	2 toe nails on one side and 1 toe nail on opposite side of rafter or truss
7	Roof rafters to ridge, valley or hip rafters or roof rafter to minimum 2" ridge beam	(4) 16d (3) 16d common (4) 10d box	(4) 3 1/2" x 0.135" (3) 3" x 0.148" (4) 3" x 0.128" (4) 3" x 0.131"	Toe nail
8	Rafter or roof rafter to minimum 2" ridge beam	(3) 16d box (2) 16d common (3) 10d box	(3) 3 1/2" x 0.135" (2) 3 1/2" x 0.162" (3) 3" x 0.128" (3) 3" x 0.131"	End nail
WALL				
8	Stud to stud (not at braced wall panels)	16d common 10d box	3 1/2" x 0.162" 3" x 0.128" 3" x 0.131"	24" face nail 16" face nail
9	Stud to stud and abutting studs at intersecting walls (at braced wall panels)	16d box 16d common	3 1/2" x 0.135" 3" x 0.131"	16" face nail
10	Build-up header (2" to 2" header with 1/2" spacer)	16d common 16d box	3 1/2" x 0.162" 3 1/2" x 0.135"	16" each edge face nail 12" each edge face nail
11	Continuous header to stud	(5) 8d box (4) 8d common (4) 10d box	(5) 2 1/2" x 0.113" (4) 2 1/2" x 0.131" (4) 3" x 0.128"	Toe nail
12	Top plate to top plate	16d common 10d box	3 1/2" x 0.162" 3" x 0.128" 3" x 0.131"	16" face nail 12" face nail
13	Double top plate splice for SDCs A-D2 with seismic braced wall spacing < 25'	(8) 16d common (12) 16d box (12) 10d box	(8) 3 1/2" x 0.162" (12) 3 1/2" x 0.135" (12) 3" x 0.128" (12) 3" x 0.131"	Face nail on each side of end joint (minimum 24" lap splice length each side of end joint)
14	Double top plate splice SDCs D0, D1, or D2; and braced wallline spacing ≥ 25'	(12) 16d	(12) 3 1/2" x 0.135"	
15	Bottom plate to joist, rim, joist, band joist or blocking (not at braced wall panels)	16d common 16d box	3 1/2" x 0.162" 3 1/2" x 0.135" 3" x 0.128" 3" x 0.131"	16" face nail 12" face nail
16	Bottom plate to joist, rim, joist, band joist or blocking (at braced wall panel)	(3) 16d box (2) 16d common	(3) 3 1/2" x 0.135" (2) 3 1/2" x 0.162" (4) 3" x 0.131"	3 each 16" face nail 2 each 16" face nail 4 each 16" face nail
17	Top or bottom plate to stud	(4) 8d box (3) 16d box (4) 8d common (4) 10d box	(4) 2 1/2" x 0.113" (3) 2 1/2" x 0.135" (4) 2 1/2" x 0.131" (4) 3" x 0.128" (4) 3" x 0.131"	Toe nail
18	Top plates, laps at corners and intersections	(3) 16d box (2) 16d common (3) 10d box	(3) 3 1/2" x 0.135" (2) 3 1/2" x 0.162" (3) 3" x 0.128" (3) 3" x 0.131"	End nail
17	Top plates, laps at corners and intersections	(3) 16d box (2) 16d common (3) 10d box	(3) 3" x 0.128" (2) 3 1/2" x 0.162" (3) 3" x 0.131"	Face nail
18	1" brace to each stud and plate	(3) 8d box (2) 8d common (2) 10d box (2) Staples ^R	(3) 2 1/2" x 0.113" (2) 2 1/2" x 0.131" (2) 3" x 0.128"	Face nail
19	1" x 6" sheathing to each bearing	(3) 8d box (2) 8d common (2) 10d box (2) Staples ^R	(3) 2 1/2" x 0.113" (2) 2 1/2" x 0.131" (2) 3" x 0.128"	Face nail
20	1" x 8" & wider sheathing to each bearing	(3) 8d box (3) 8d common (3) 10d box (3) Staples ^R	(3) 2 1/2" x 0.113" (3) 2 1/2" x 0.131" (3) 3" x 0.128"	Face nail
	Wider than 1" x 8"	(4) 8d box (3) 8d common (3) 10d box (4) Staples ^R	(4) 2 1/2" x 0.113" (3) 2 1/2" x 0.131" (3) 3" x 0.128"	

- DIVISION 3 – CONCRETE**

 1. 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."
 2. Concrete materials shall comply with:
 - A. Cement – ASTM C-150 Type I
 - B. Aggregate – ASTM C-33, maximum aggregate size 3/4 inch
 - C. Water – Potable
 - D. Air-entraining admixture – ASTM C-260
 - E. Water-reducing admixture – ASTM C-494, including plasticizers
 - F. Fly ash – ASTM C-681, Class C
 3. Concrete shall develop the following minimum 28 day design compressive strength (F_c):

	Compressive Strength (F _c)
A. Footings, walls and basement slab	4000 PSI
B. Garage Slab	3500 PSI
C. Exterior stairs, steps, and curbs (all-reinforced concrete)	4000 PSI

A. Reinforcing bars - ASTM A 615, grade 40, deformed.

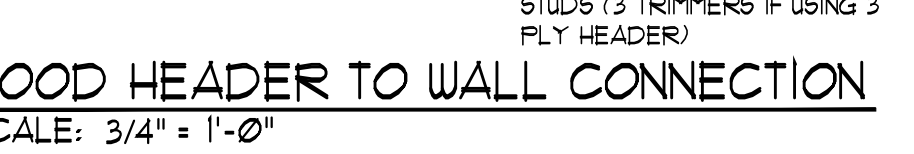
7. **Concrete Work Execution:**
 - A. Minimum concrete cover for reinforcement shall be, unless noted otherwise on the drawings:
 - Cast against and exposed to earth—3 inches
 - Exposed to earth or weather—2 inches
 - Not exposed to earth or weather—1 1/2 inches
 - B. All concrete is reinforced, concrete reinforce not otherwise indicated with same reinforcement as similar sections.
 - C. Protect concrete work from physical damage or reduced strength due to weather extremes.
 - In cold weather comply with ACI 306
 - In hot weather comply with ACI 305
 - D. In corners of grade beams and walls provide corner reinforcement, Lap two feet each face, one end, and stirrups and ties for horizontal reinforcement.
 - E. At openings in walls, add one #4 bar (providing dimension plus 60 bar diameter) each face, each corner.
 - F. Reinforce beams to be diagonally at each face of all steps in grade beams and foundation walls.
 - G. Provide construction joints in footings, grade beams and walls not greater than 80 feet in any direction, give control and fixed construction joints.
 - H. Provide reinforcement in shear walls and foundation walls not greater than 20 feet on center in direction. Saw cut key joints minimum 14 ft slab depth, as soon after slab finishing as possible without dislodging aggregate.
8. Coordinate concrete work with architectural and mechanical drawings for concrete finishes, recessed areas, embedded items and wall conditions.

1. All miscellaneous structural steel work shall conform to the requirements of AISC "Specifications for Structural Steel Buildings."

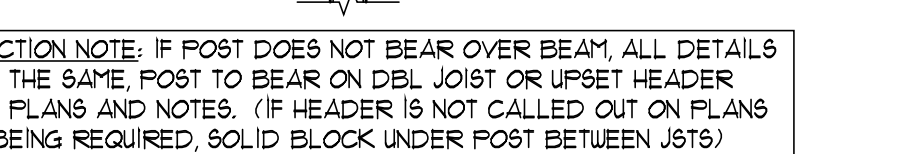
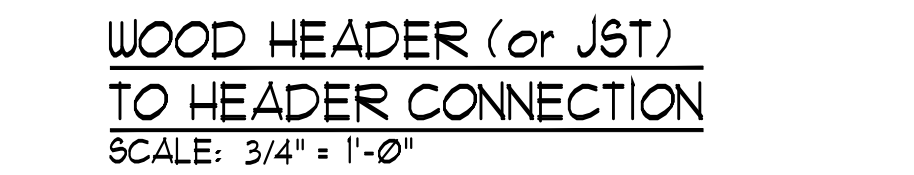
- APA Plywood Design Specifications, DCS PS 1 Product Standard for Structural and Industrial Plywood, DCS PS 56 "Structural Glued Laminated Lumber" and Chapter 23 of the International Building Code.
2. Rough carpentry materials shall comply with:
- A. Lumber - S4S, surface dry, grade matching with PS 20; graded under WPPA or SPIB rules:
- | | |
|----------|---|
| Studs: | Stud Grade - Spruce-Pine-Fir |
| Joist: | No. 2 Douglas Fir / No. 2 Hem Fir |
| Lumber: | No. 1 Douglas Fir / No. 1 Spruce-Pine-Fir |
| Plating: | No. 3 Spruce-Pine-Fir |
| Blocks: | No. 3 Spruce-Pine-Fir |
- B. Metal framing fasteners - ASTM A 153, hot-dip galvanized fasteners, equal to Simpson Strong-Tie framing fasteners with ICCB No. 1258.
- C. Plywood - APA rated sheathing, complying to PS 1.
- D. LVL - laminated veneer lumber, equal to grade 2300 F-2.0E and shall meet the requirements of NDS-44, NER-472 or ER-4321.

glued and clipped. Roof sheathing for Conc Tile shall be 5/8" in APA rated 32/16 exterior glued and

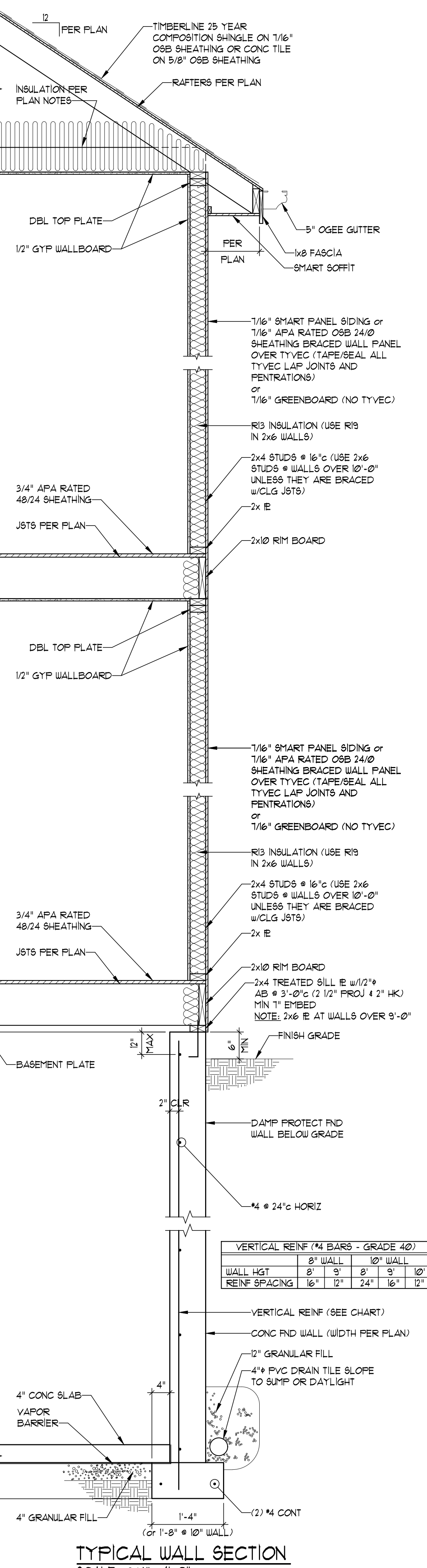
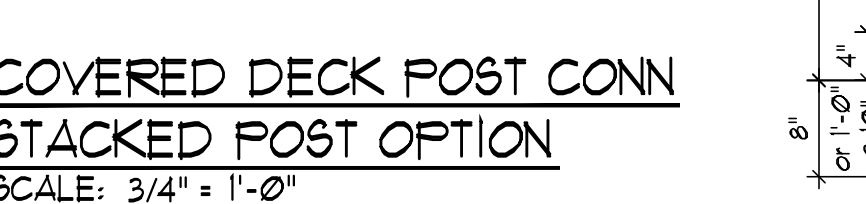
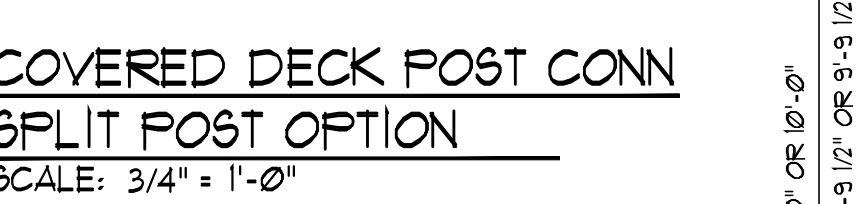
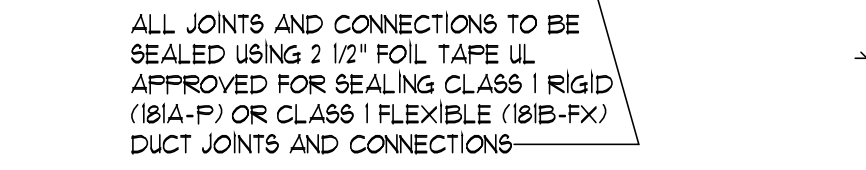
4. Floor sheathing shall be 3/4 inch APA rated sheathing 48/24 exterior glued. Lay sheathing with grain perpendicular to support members and stagger end joints 4'-0". FASTEN PER SCHEDULE BELOW.
5. Exterior wall sheathing shall be 1/2 inch APA Rated sheathing 24/0 or 7/16 inch LP Smart Siding exterior grade. Provide solid blocking at all unsupported panel edges FASTEN PER SCHEDULE BELOW. For LP Siding, fasten through both panels at edge supports.
6. Interior shear wall sheathing where noted shall be 1/2 inch gypsum wallboard. FASTEN PER SCHEDULE BELOW.
7. Attach metal framing members to framing members with minimum number and size of nails listed in ICBO Report No. 1258.
8. Provide full depth solid bracing, 1 x 4 cross bracing, or 16 gauge metal cross bracing attaching at ends of members and at 8'-0" intervals along members.

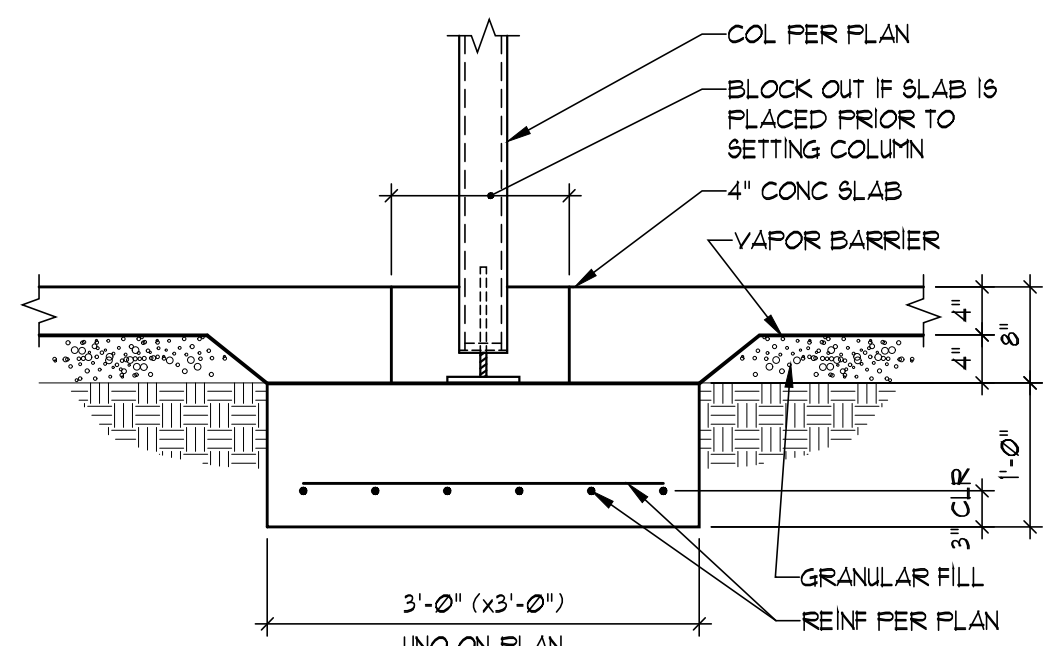


HANGER SCHEDULE			
SOLID SAWN LUMBER		ENGINEERED LUMBER	
HDR SIZE	HANGER	HDR SIZE	HANGER
2x6	LU824	3/4x11 1/4	HU1
2x8	LU826	3/4x9 1/4	HU9
2x10	LU828	3/4x9 1/2	HU11
2x12	LU8210	1 3/4x11 7/8	HU13
(2) 2x6	LU824-2	(2) 1 3/4x11 1/4	HU48
(2) 2x8	LU826-2	(2) 1 3/4x9 1/4	HU410
(2) 2x10	LU828-2	(2) 1 3/4x9 1/2	HU410
(2) 2x12	LU8210-2	(2) 1 3/4x11 7/8	HU412



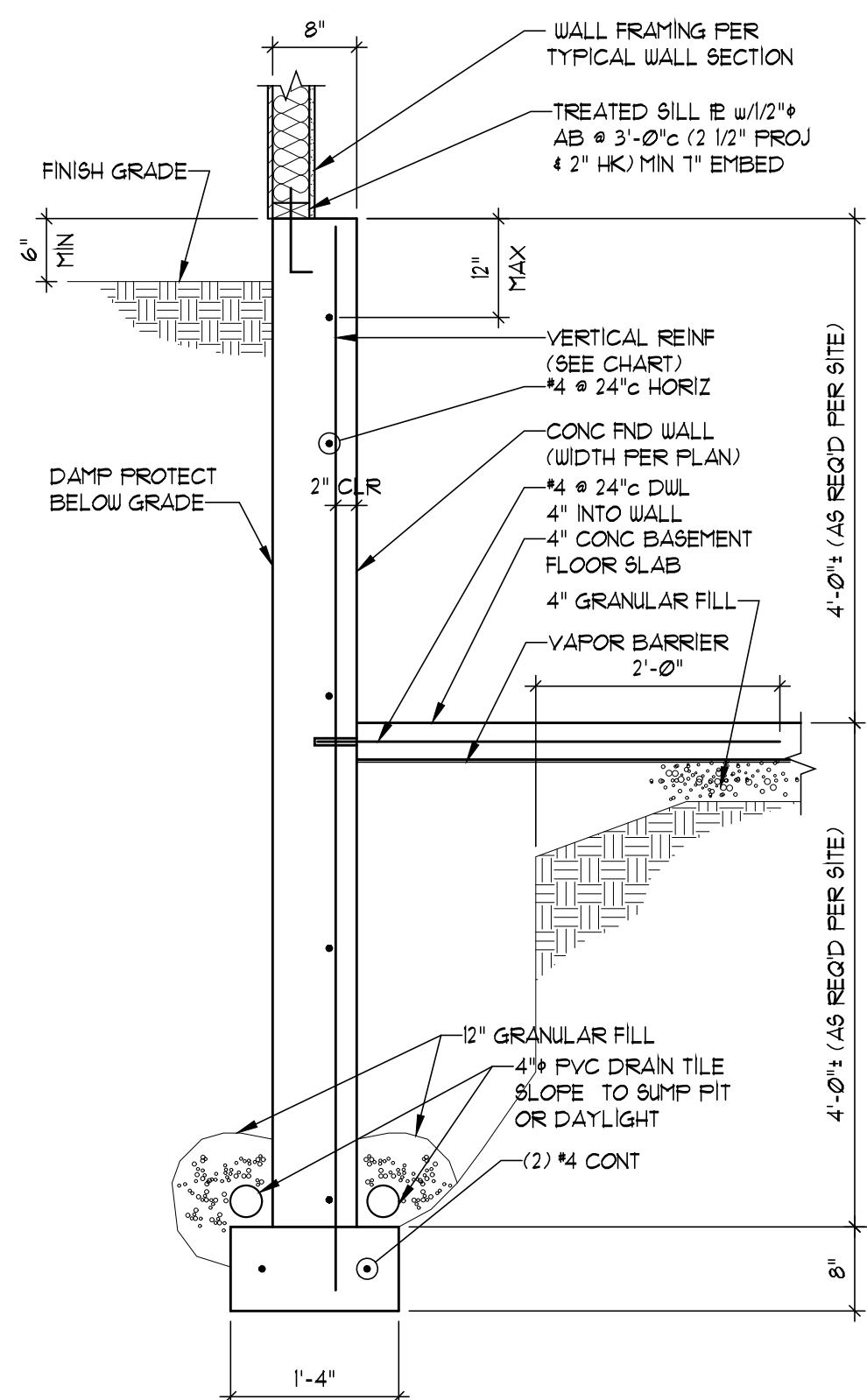
STEEL POST CAP AND
MISC POST CONN DETAILS
SCALE: $\frac{3}{4}" = 1'-0"$



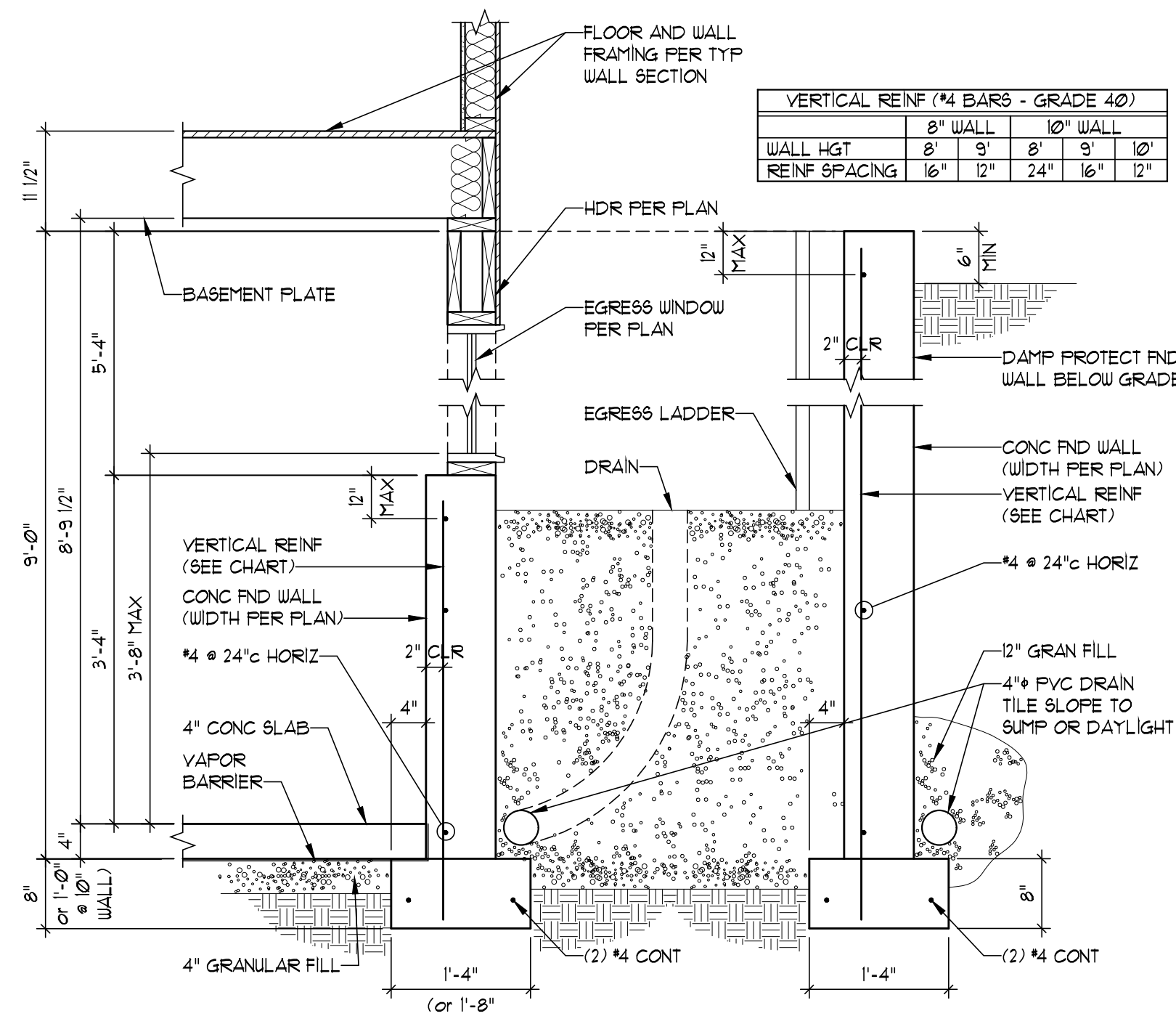


TYPICAL INTERIOR COLUMN
SCALE: 3/4" = 1'-0"

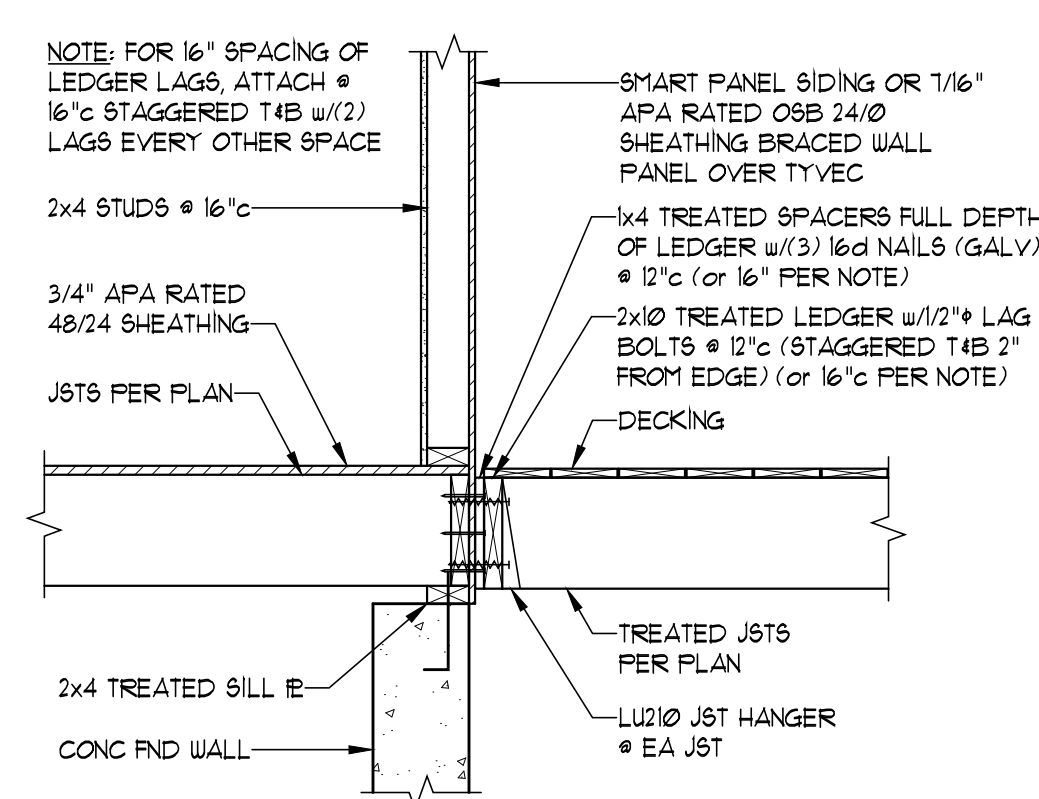
VERTICAL REIN (4 BARS - GRADE 40)					
WALL HGT	8'	9'	8'	9'	10'
REIN SPACING	16"	12"	24"	16"	12"



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

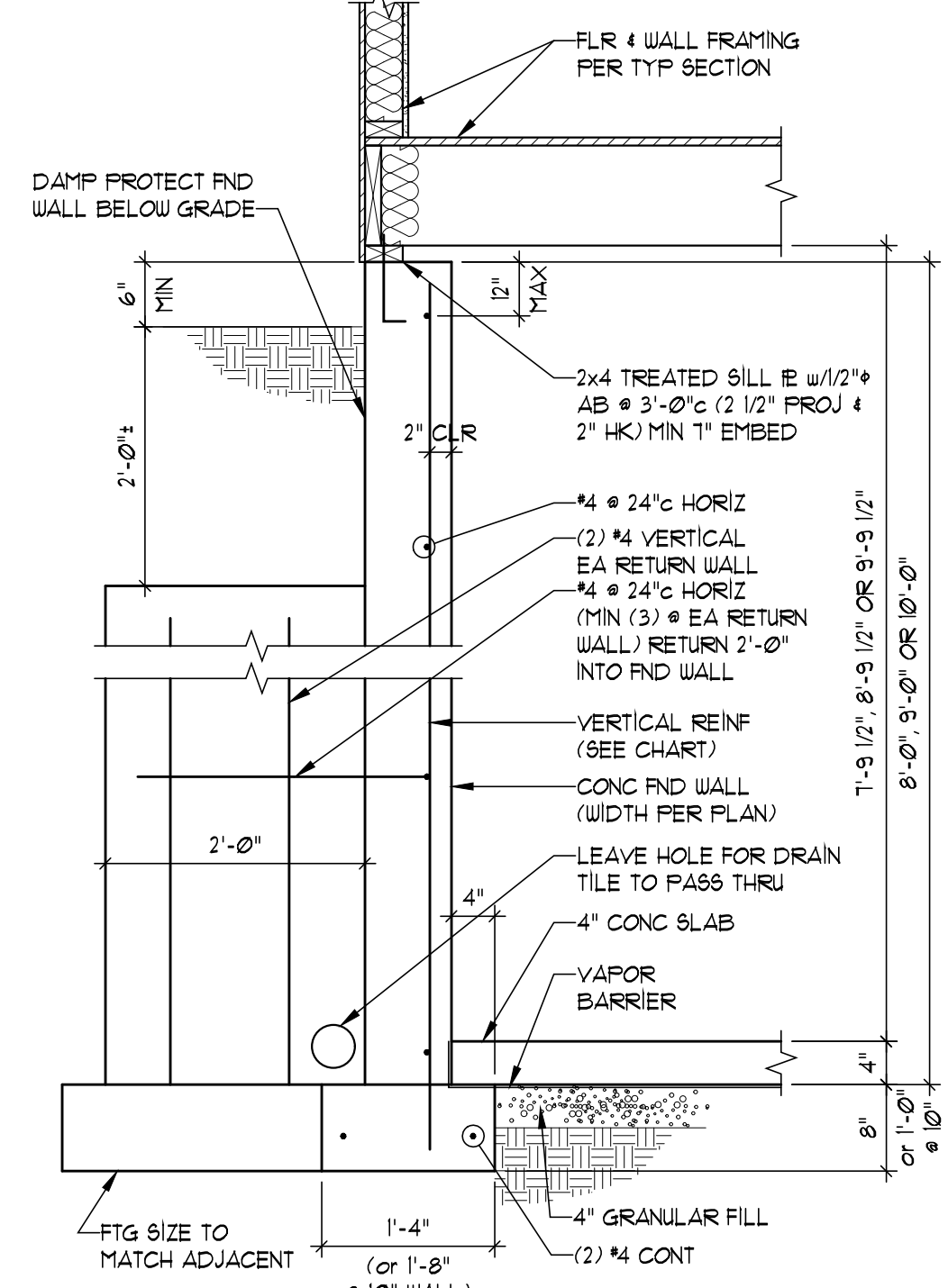


TYPICAL WINDOW WELL
SCALE: 3/4" = 1'-0"

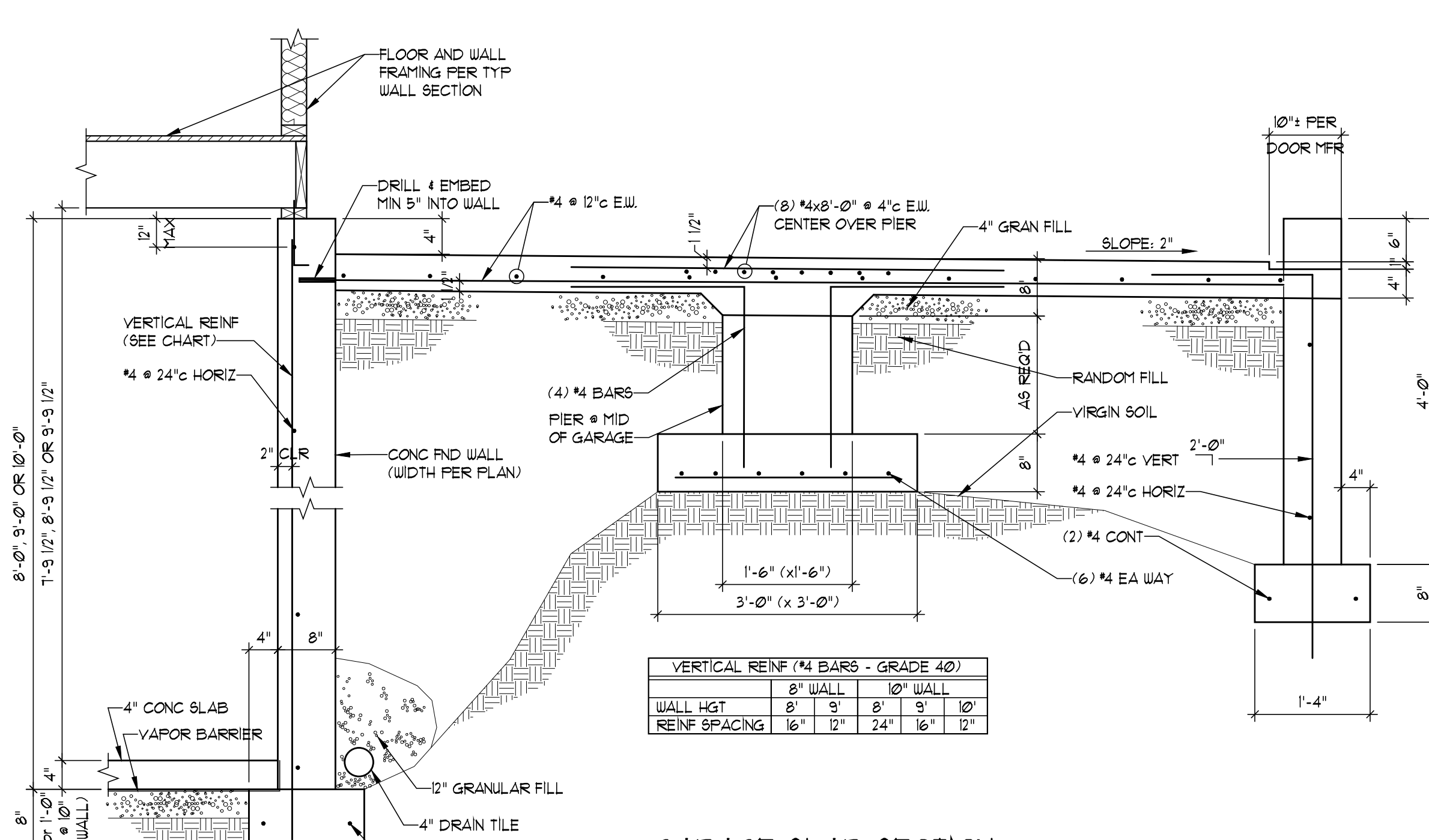


DECK ATTACHMENT
SCALE: 3/4" = 1'-0"

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

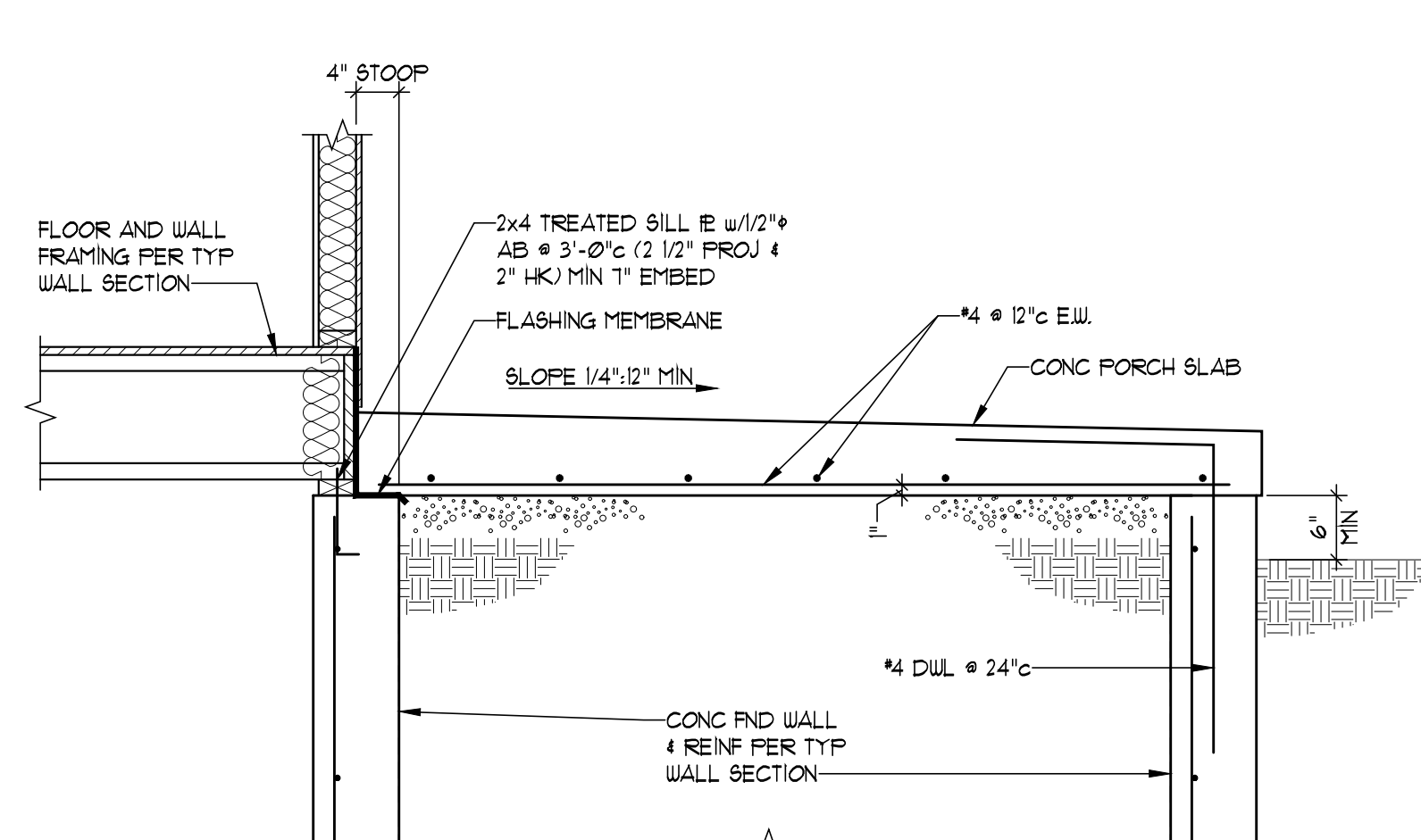


TYPICAL PILASTER SECTION
SCALE: 3/4" = 1'-0"

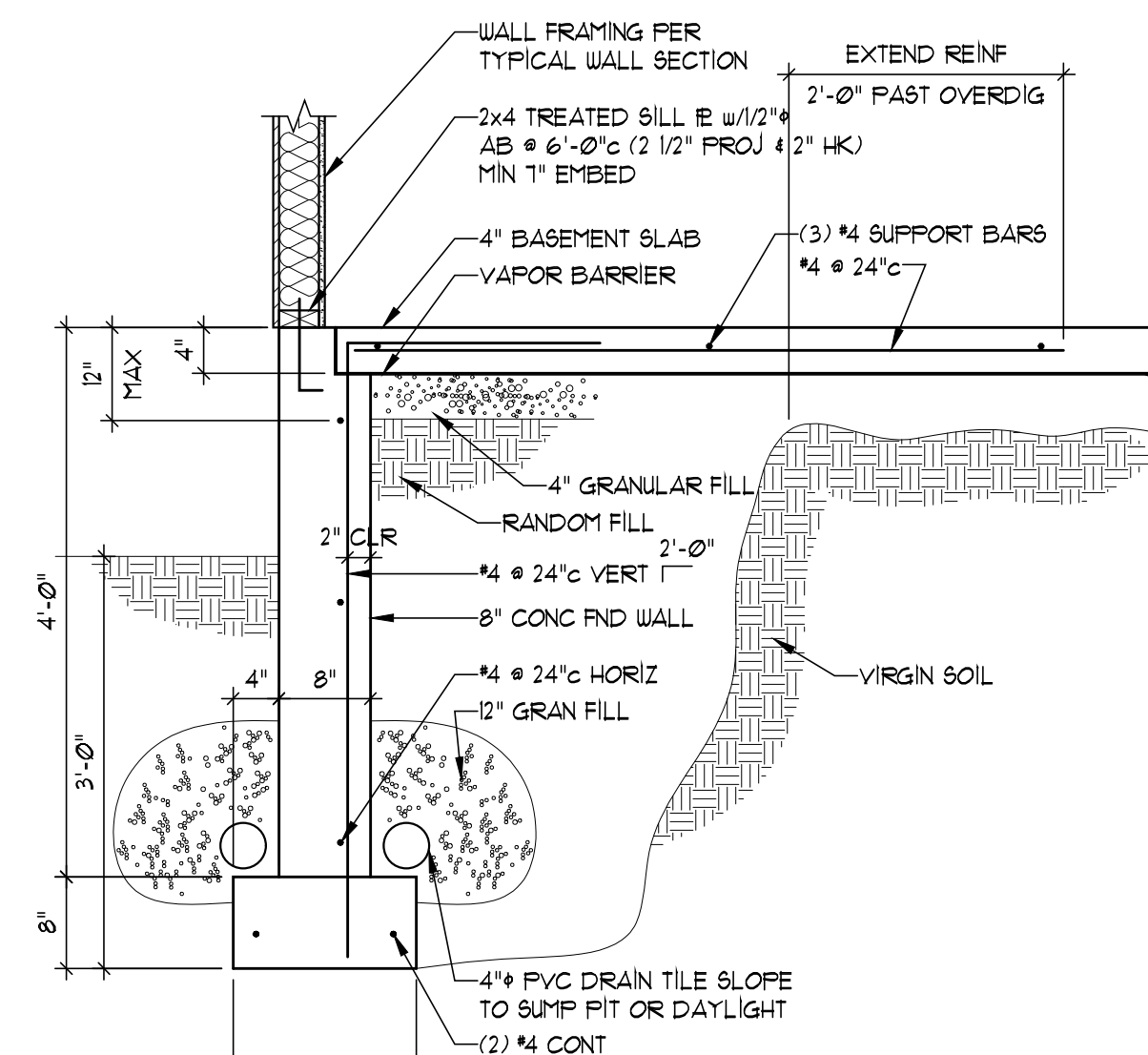


GARAGE SLAB SECTION
SCALE: 3/4" = 1'-0"

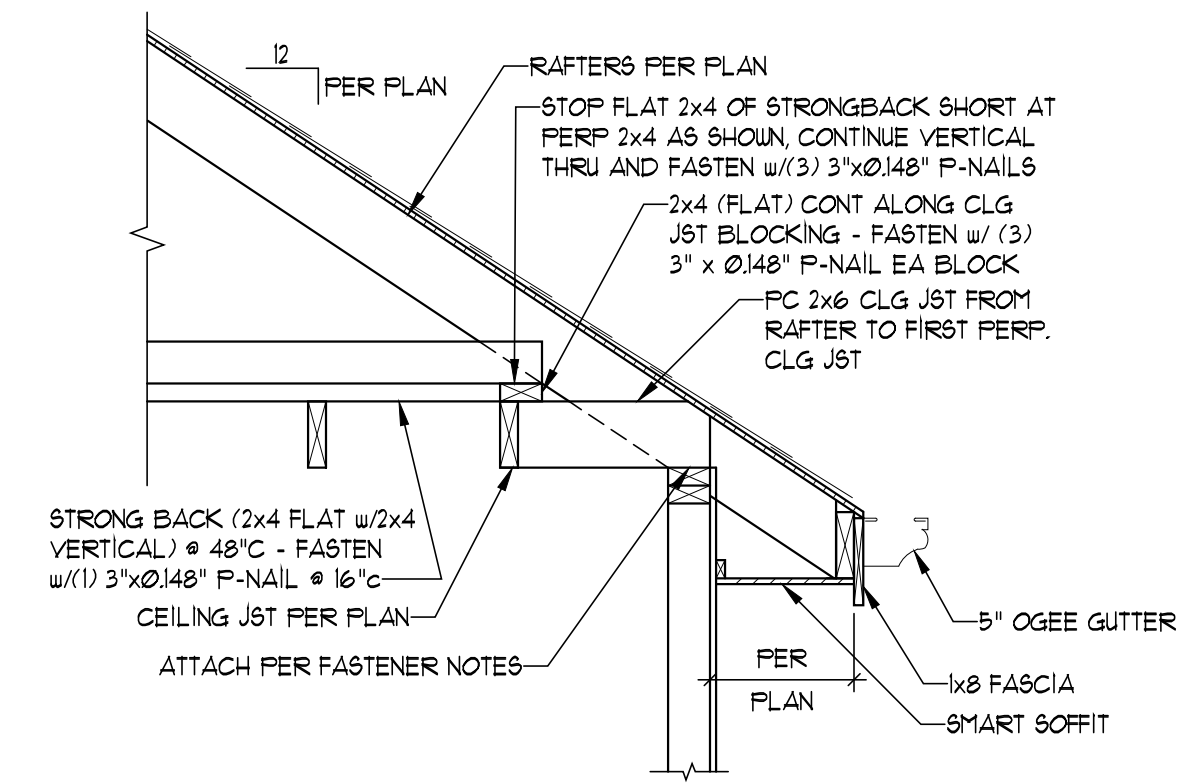
VERTICAL REIN (4 BARS - GRADE 40)					
WALL HGT	8'	9'	8'	9'	10'
REIN SPACING	16"	12"	24"	16"	12"



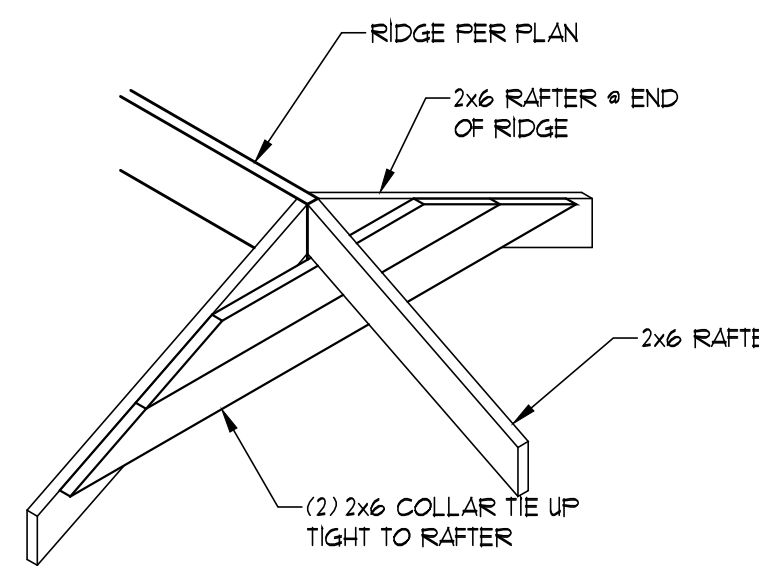
TYPICAL SECTION THRU PORCH
SCALE: 3/4" = 1'-0"



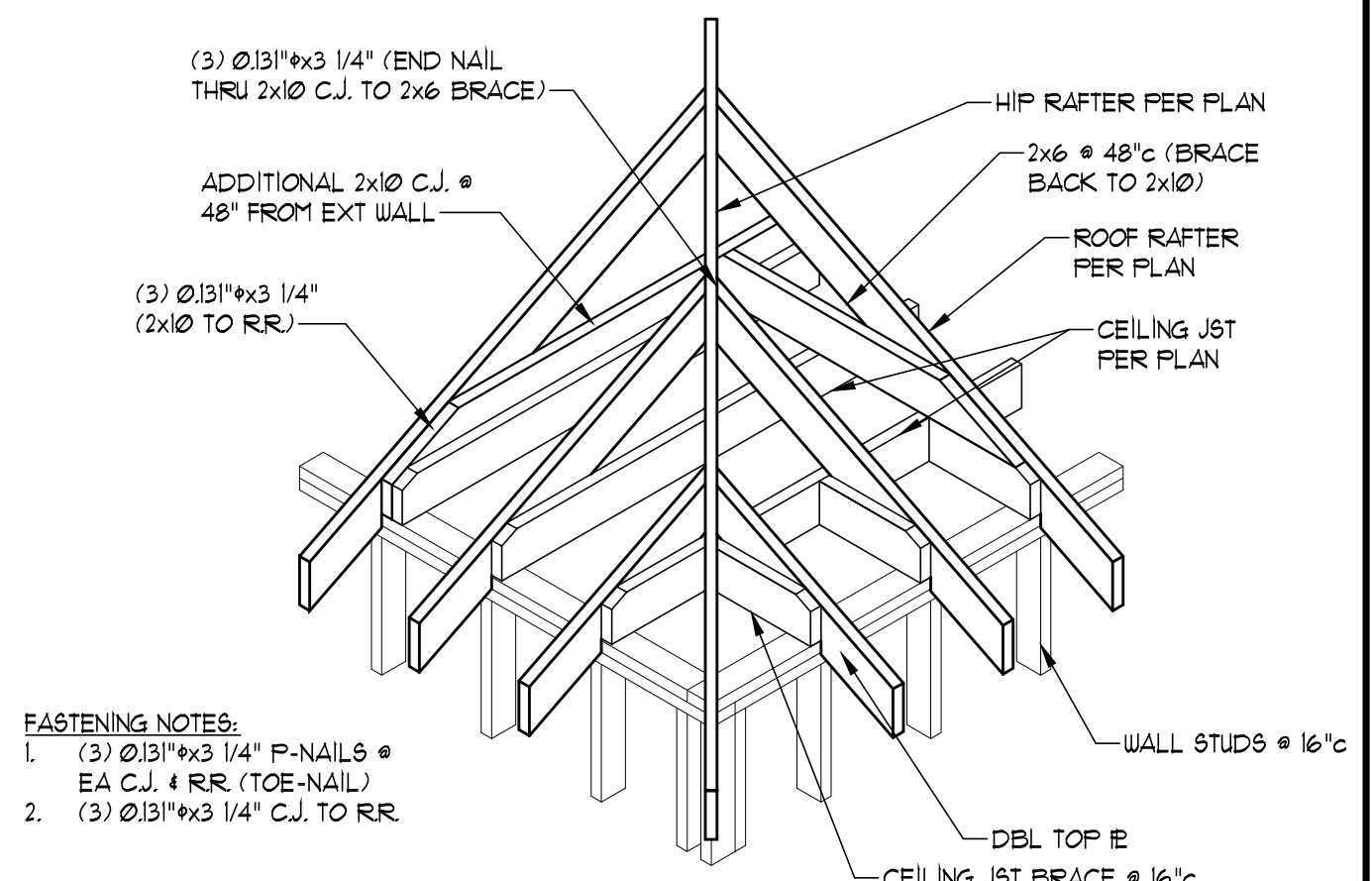
TYPICAL WALKOUT SECTION
SCALE: 3/4" = 1'-0"



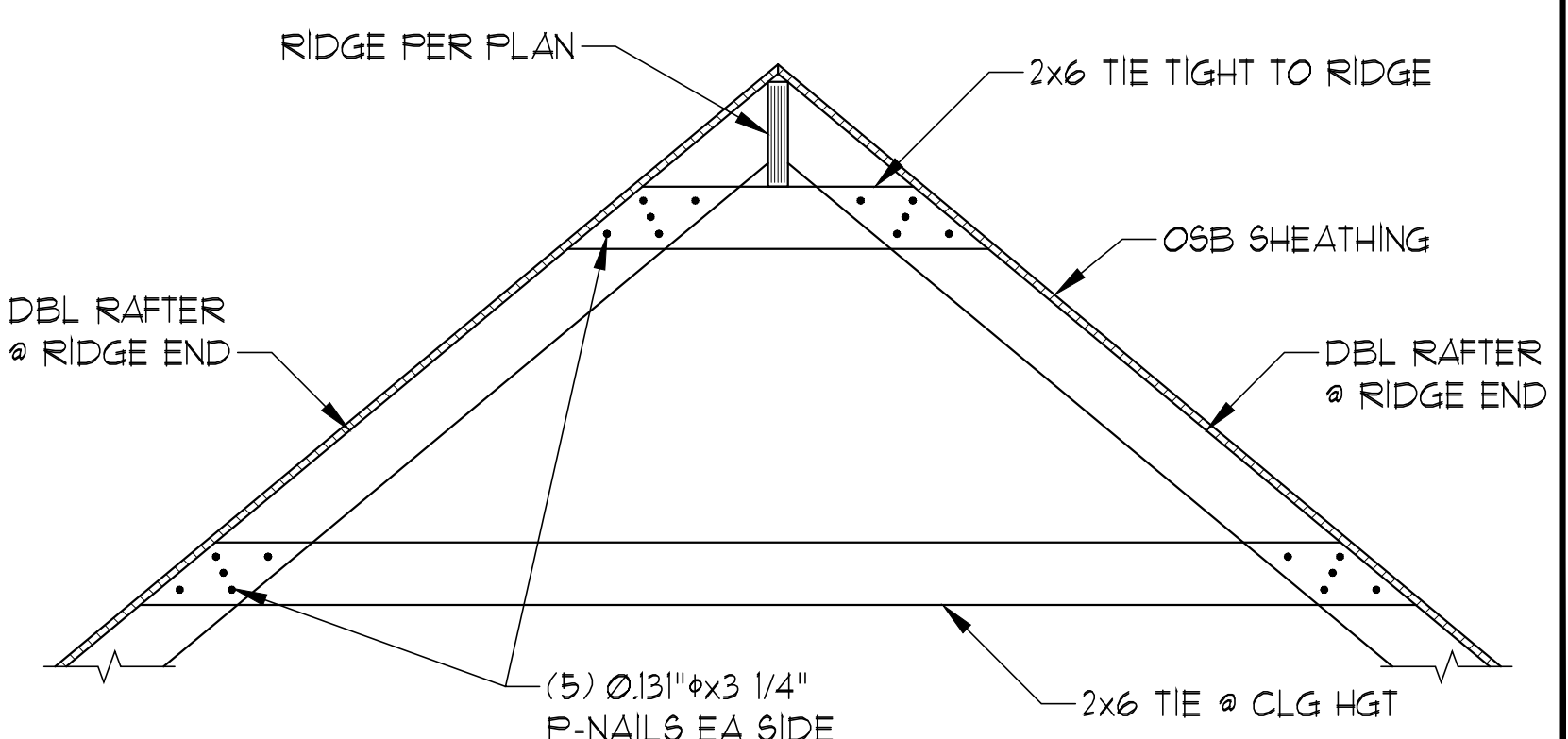
RAFTER ATTACHMENT AT PERPENDICULAR CONDITIONS
SCALE: 3/4" = 1'-0"



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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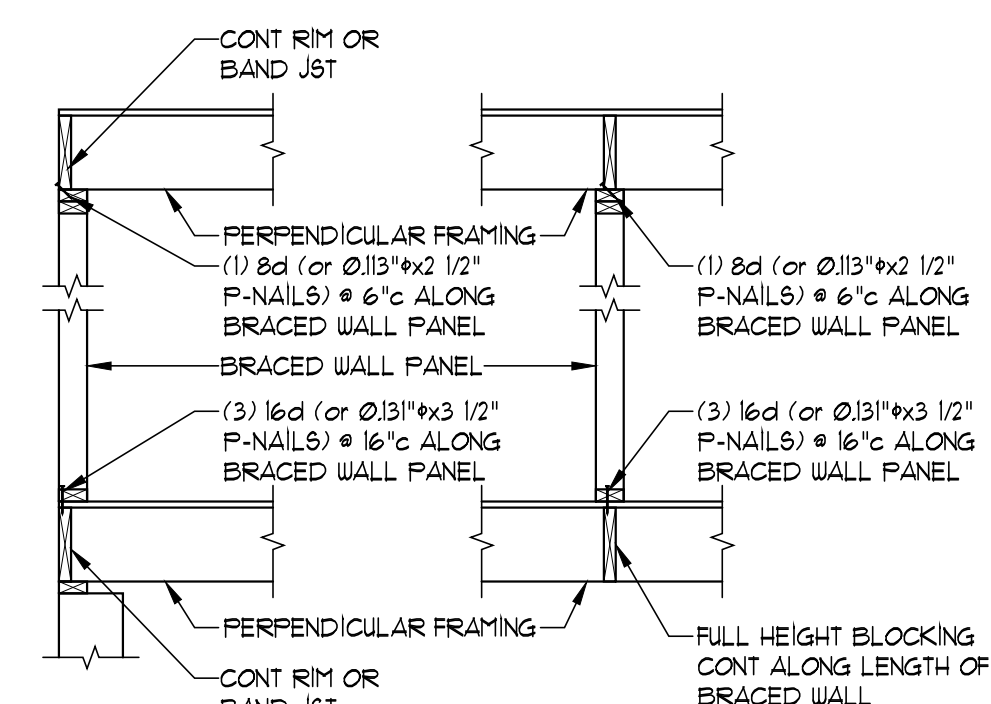


THE WOODLAND CUSTOM

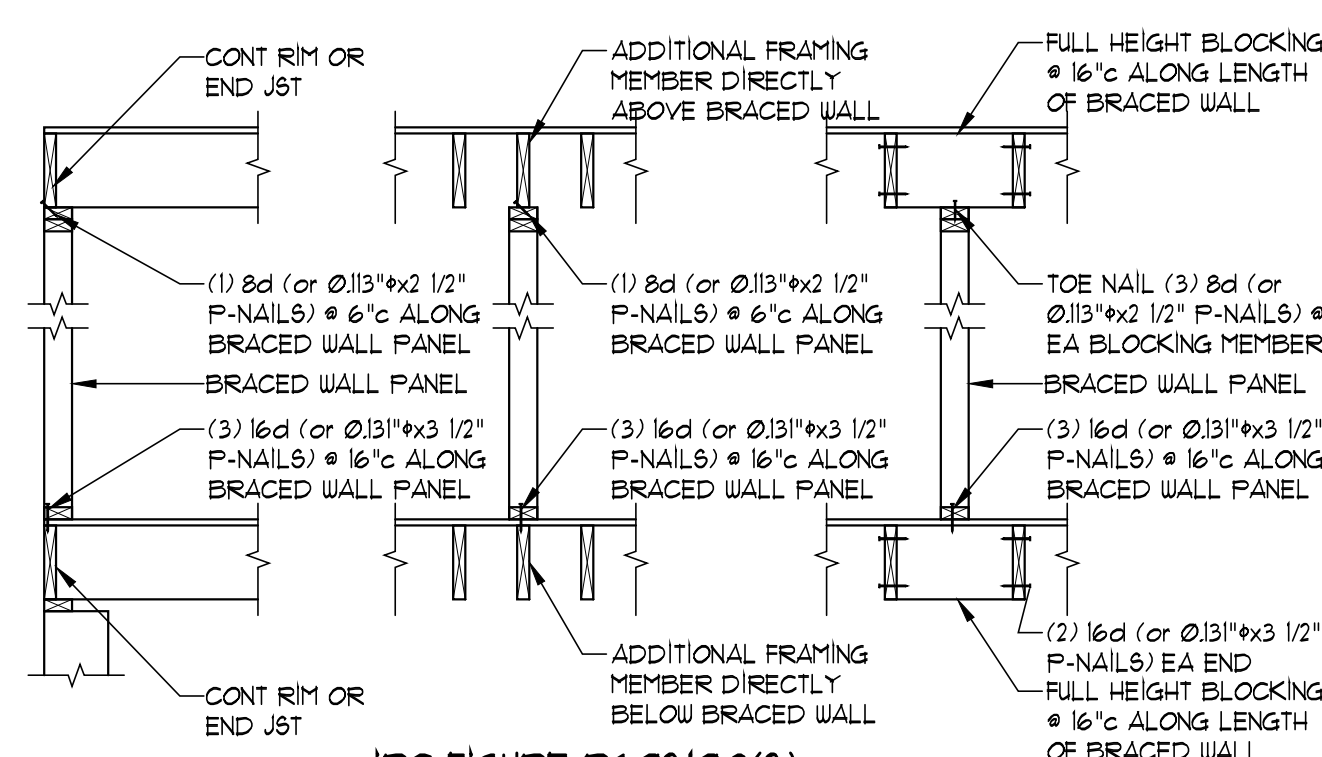
Vik and Alysha Kapur
1909 NE Park Ridge Dr, Lee's Summit, MO
Lot 298 - Park Ridge Subdivision

Project #: 8083-XXXX
DATE:
For Permit: 10/21/2020

Framing Notes and Details
S101



IRC FIGURE R602.10.8(1)
BRACED WALL PANEL CONNECTION WHEN
PERPENDICULAR TO FLOOR/CEILING FRAMING



IRC FIGURE R602.10.8(2)
BRACED WALL PANEL CONNECTION WHEN
PARALLEL TO FLOOR/CEILING FRAMING:

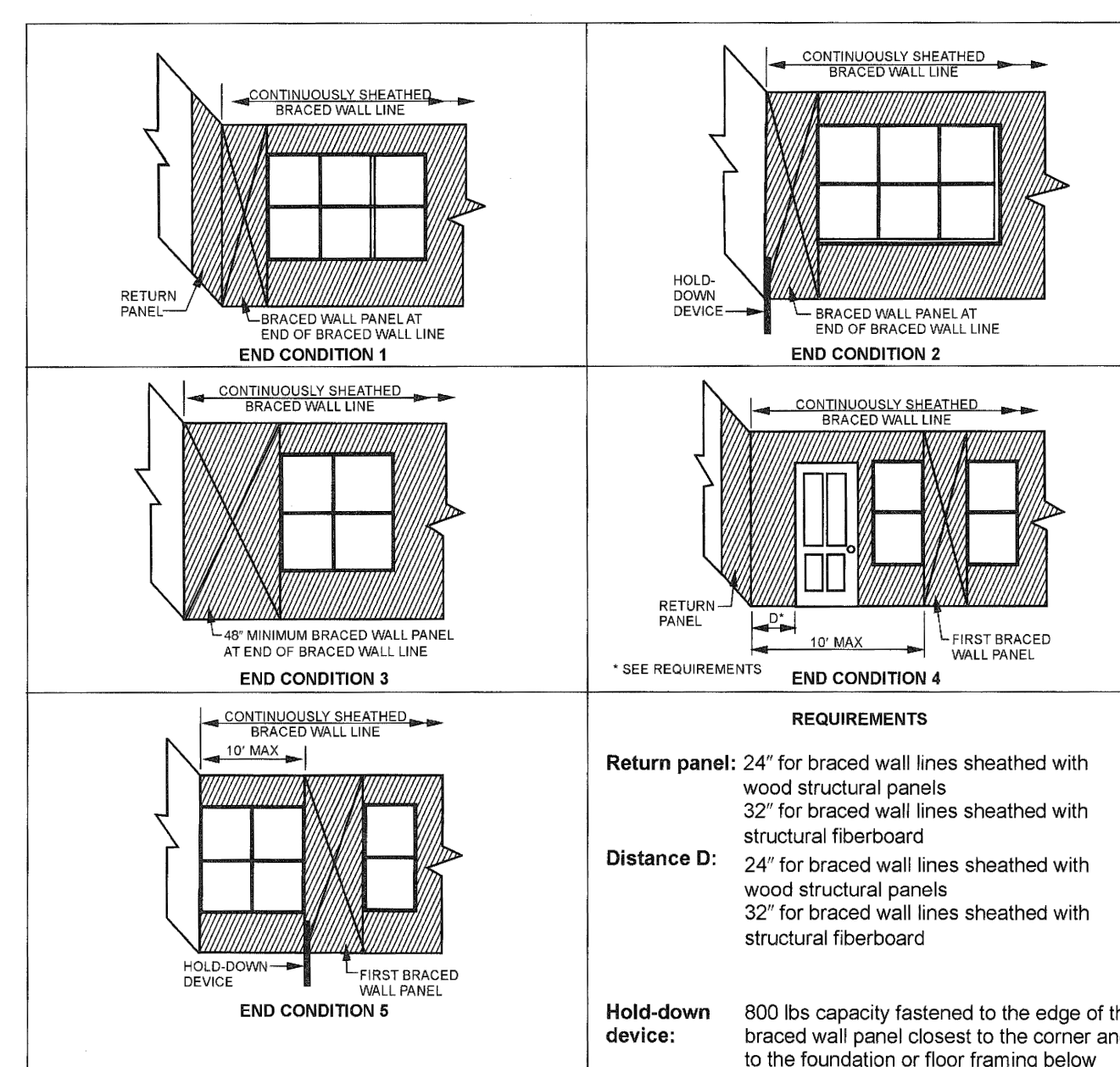
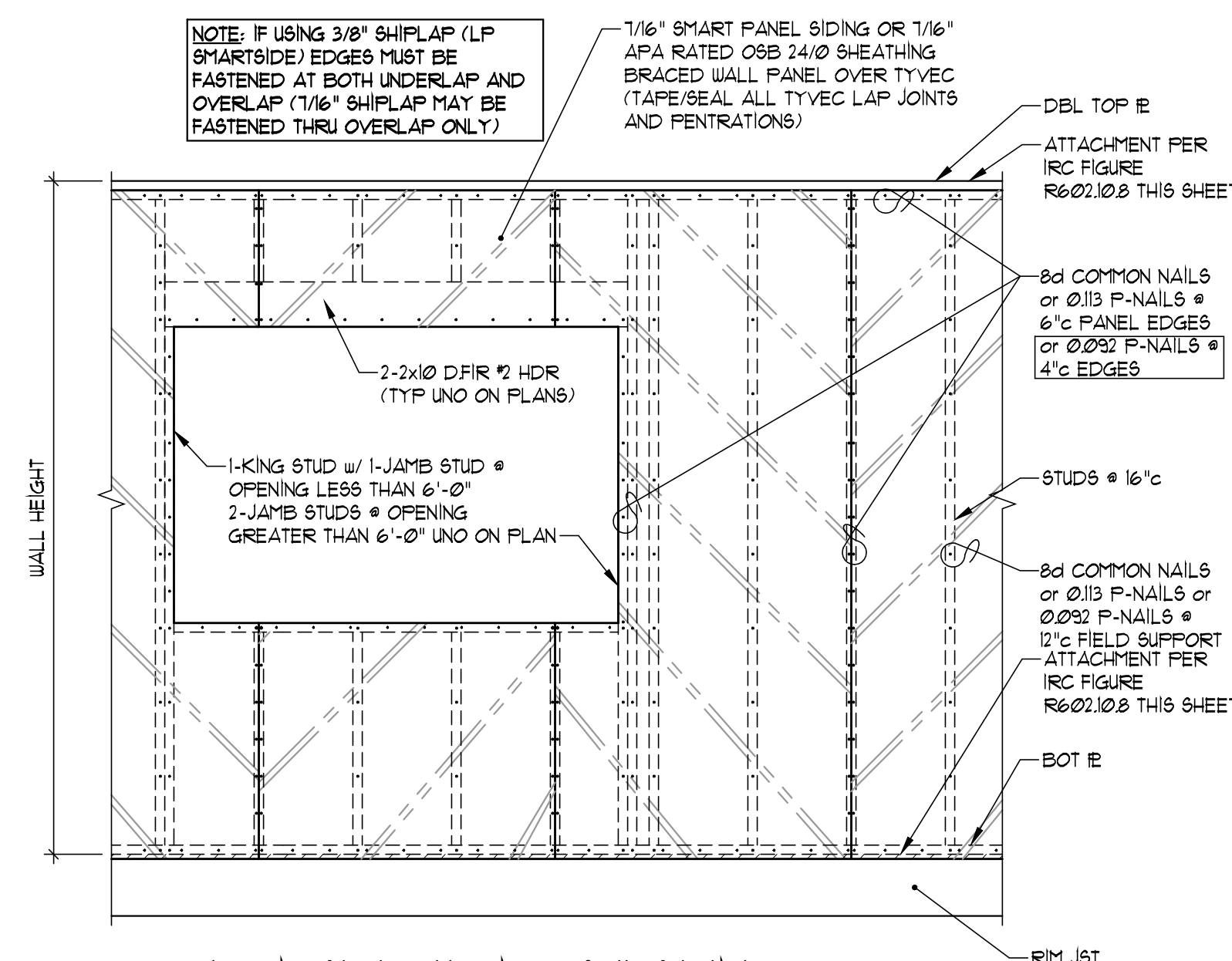
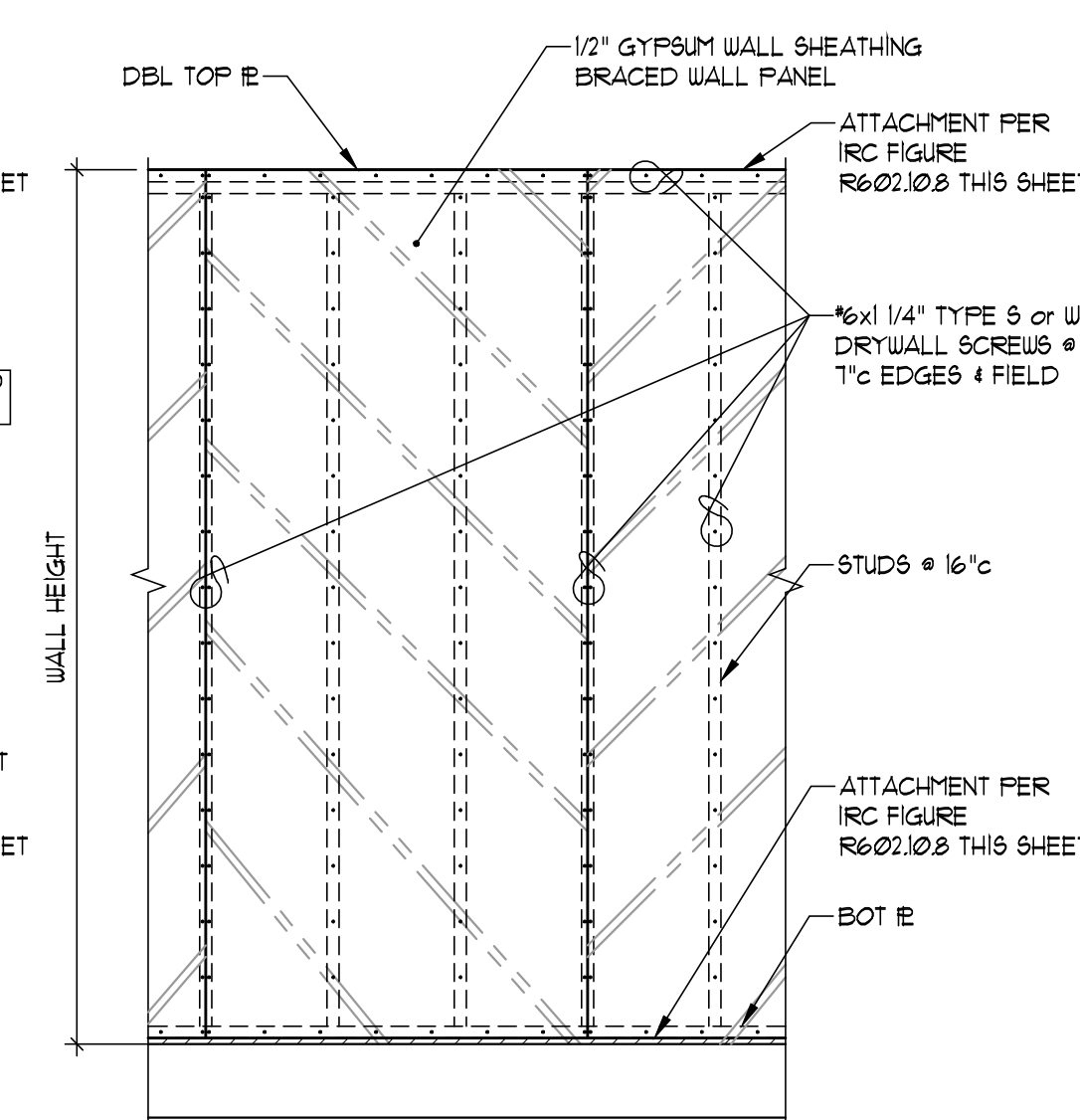


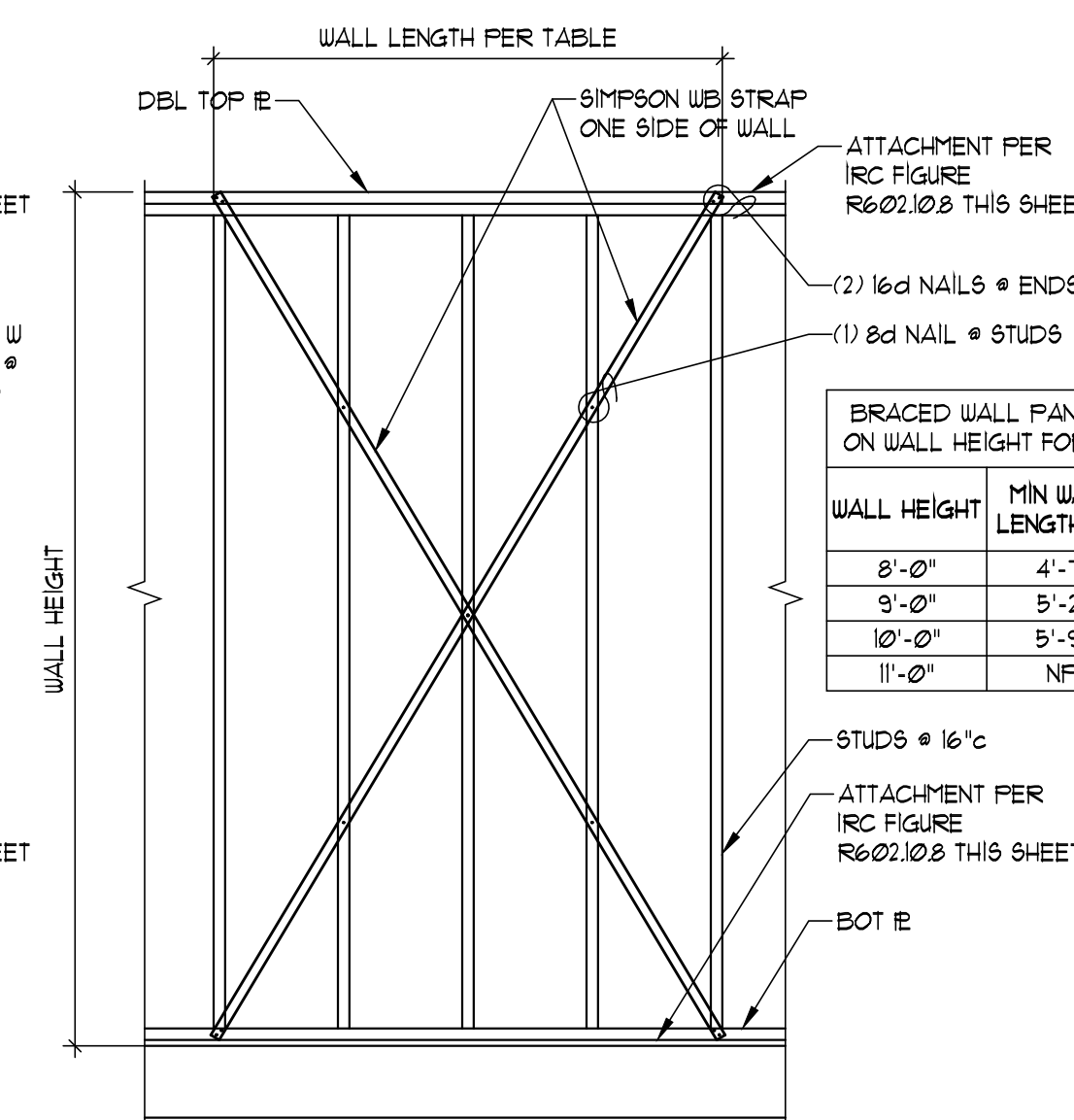
FIGURE R602.10.7
END CONDITIONS FOR BRACED WALL LINES WITH CONTINUOUS SHEATHING



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

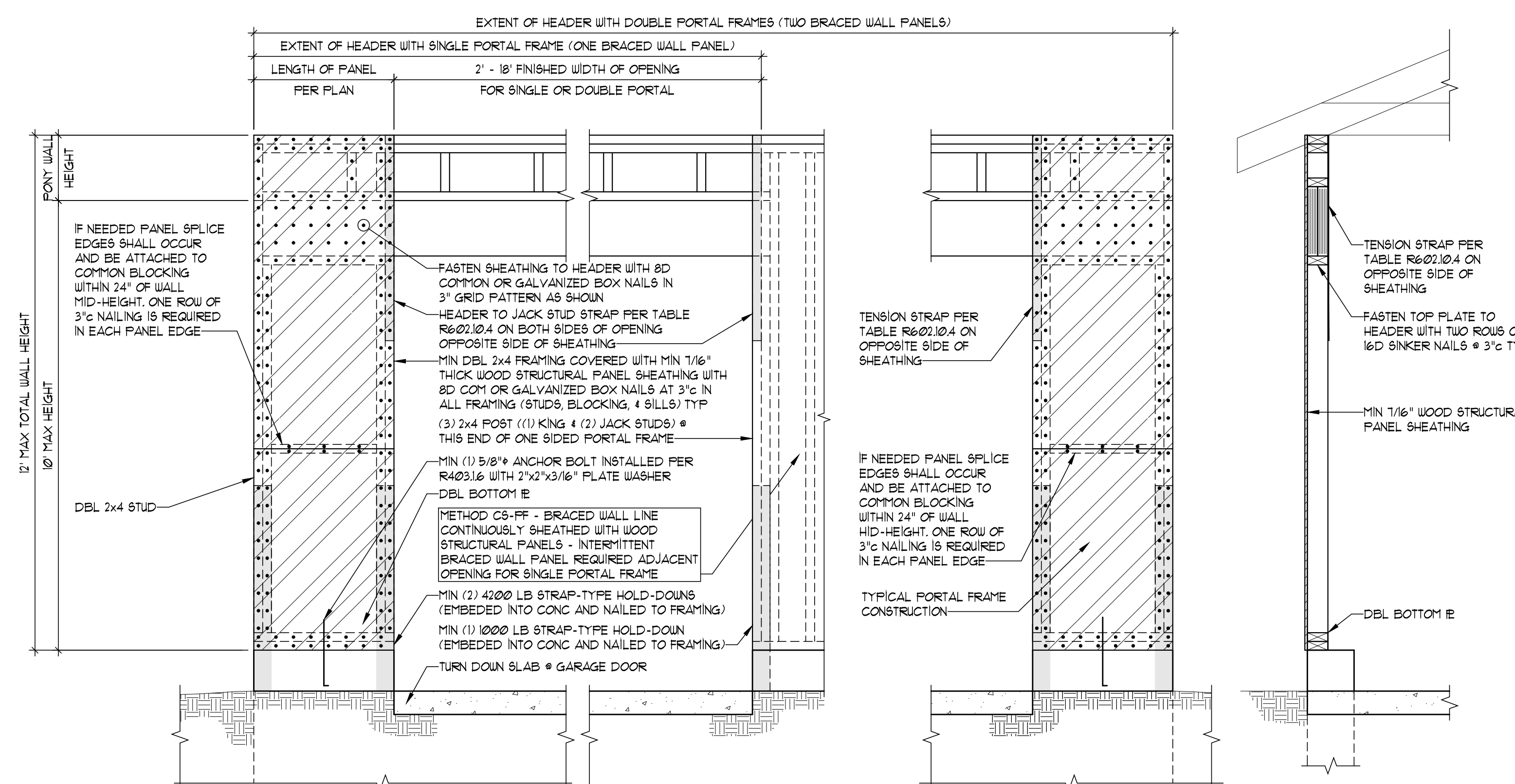


TYPICAL INTERIOR SHEATHING
INSTALLATION (METHOD GB)
SCALE: 1/2" = 1'-0"

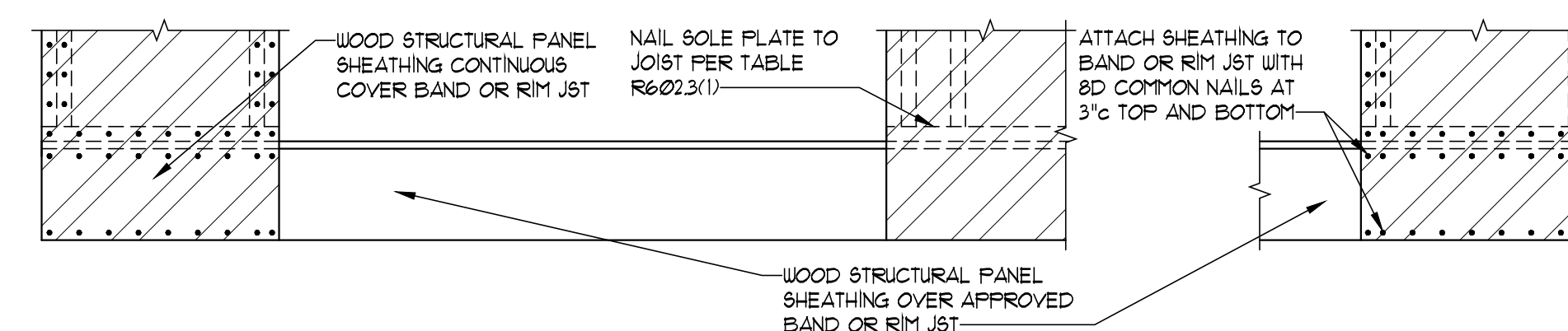


INTERIOR SHEATHING
INSTALLATION (METHOD LIB)
SCALE: 1/2" = 1'-0"

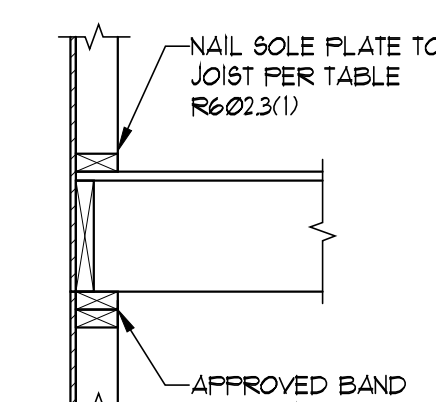
WALL HEIGHT	MIN WALL LENGTH (X)	MAX WALL LENGTH (X)
8'-0"	4'-7"	8'-0"
9'-0"	5'-2"	9'-0"
10'-0"	5'-9"	10'-0"
11'-0"	NP	NP



BRACED WALL METHOD "PFH" (also HEADER ATTACHMENT FOR CS-PF)
SCALE: 3/4"=1'-0"



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



SECTION

THE WOODLAND CUSTOM

Vik and Alysha Kapur
1909 NE Park Ridge Dr, Lee's Summit, MO
Lot 298 - Park Ridge Subdivision

Project #: 8083-XXXX

DATE: _____

For Permit: 10/21/2020

References

Framing Notes

and Details

0100

\$102

0102