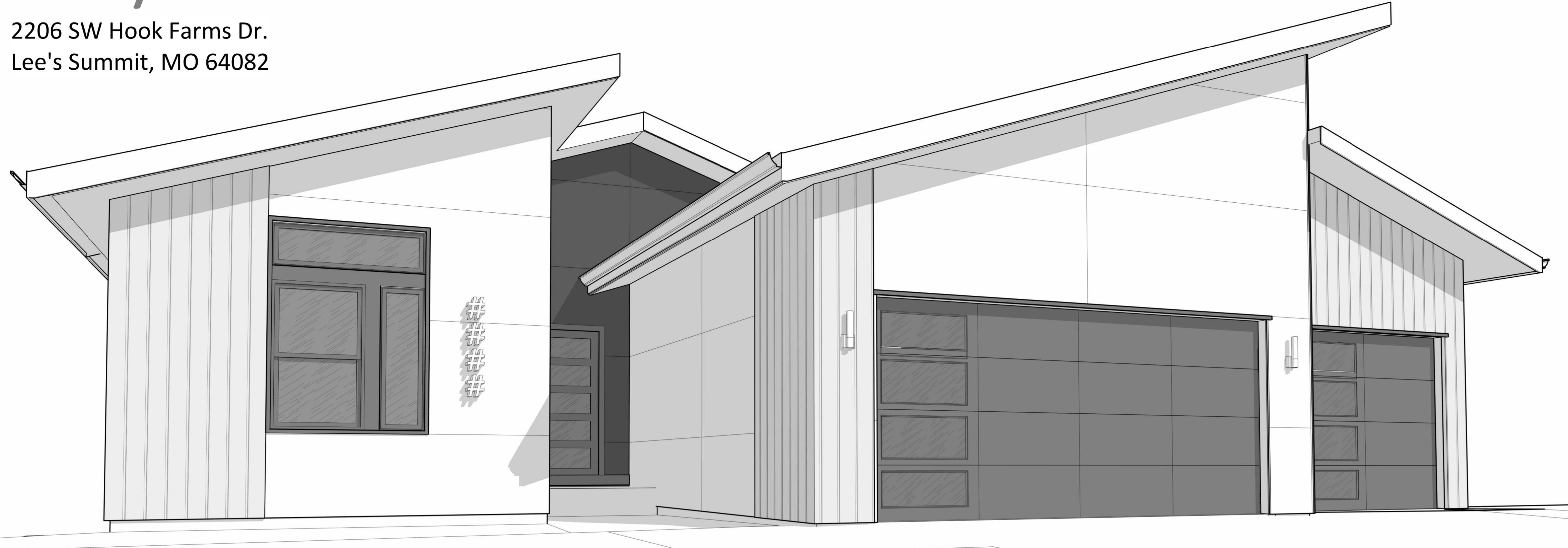


# Greystone - Hook Farms - Lot 117

2206 SW Hook Farms Dr.  
Lee's Summit, MO 64082



## General Information

2018 Interior Energy Cons. Code (Table N1102.1.2)

Doors & Windows:	U-0.32 MAX
Glazing SHGF:	0.40
Skylights:	U-0.55 MAX
Roof	
Attic Ceilings:	R-49 MIN
Vaults < 500sf:	R-38 MIN
Vaults > 500sf:	R-30 MIN
Wood Frame Walls:	R-20 or R-13 + 5 MIN
Basement Walls:	R-13 or R-10 Continuous
Floor (over unconditioned):	R-19 MIN
Slab on Grade:	R-10 for 24" MIN
Ductwork:	R-8 MIN
Fuel Fired Furnace:	90% AFUE MIN
Electric Furnace:	No Minimum
Cooling System:	13 SEER MIN
Water Heater	
Gas Fired Storage:	0.67 EF MIN
Gas Fired Instant:	0.62 EF MIN
Electric Storage:	0.97 EF MIN
Electric Instant:	0.93 EF MIN

An energy efficient certificate is required to be posted in or on the electrical panel before the final inspection. The certificate will be provided with all new residential permits. It is the permit holder/contractor's responsibility to ensure the certificate has accurate information and is posted before final inspection - Owner/Contractor is responsible for meeting the prescriptive requirements of IRC chapter 11 unless a HER Index Analysis for Performance Compliance based on the plans is submitted to the AHJ for approval.

IRC 2018

Ground Snow Load:	20PSF
Wind Speed:	115mph
Topography Effects:	No
Seismic Design Category:	A
Damage From Weather:	Severe
Frost Line Depth:	36 inches
Termite:	Moderate to Heavy
Winter Design Temperature:	6 F
Ice Barrier Underlayment:	Yes
Flood Hazard:	
Air Freezing Index:	927 or less
Mean Annual Temperature:	55.5 F

- Whole House Mechanical Ventilation System is required for any dwelling with air infiltration at a rate of less than 5 air changes per hour (at ACH50 standard R303.4).
- Carbon monoxide detectors required (R315)
- Steel columns shall be minimum schedule 40 (R507.2)
- Deck Ledger attachment to house shall be per Tables 507.9.1.3.
- New provisions for attachment of rafters, trusses and roof beams. (R802.3 and R802.11)
- Programmable thermostat required (N1103.1.1)
- Air handlers shall be rated for Maximum 2% air leakage rate (N1103.2.2.1)
- Building cavities used as return air plenums shall be sealed to prevent leakage across the thermal envelope. (N1103.2.3)
- Certain hot water pipes shall be insulated (N1103.4)
- All exhaust fans shall terminate to the building exterior (M1507.2)
- Makeup air system required for kitchen exhaust hoods that exceed 400 CFM M1503.4
- Building cavities in a thermal envelope wall (including the wall between the house and garage) shall not be used as return air plenums (unless the required insulation and air barrier are maintained) (M1601.1.1.17.5)
- An air handling system shall not serve both the living space and the garage (M1601.6)
- A concrete-Encased grounding electrode (UFER Ground) connection complies with the requirements of the 2018 IRC Section E3608.1.2 in providing a connection with no less than the required minimum of steel.
- Compliance with the requirements and show connection as needed for roof beam, trus, rafter, and girder connections for uplift per IRC 802.11
- Garage Door Rating: DASMA 115 MPH Rated



**Greystone - Hook Farms - Lot 117**  
 2206 SW Hook Farms Dr.  
 Lee's Summit, MO 64082

Original Issue Date: 10/17/2021  
Permit Set

Number	Description	Date
REVISIONS		



RELEASE FOR CONSTRUCTION  
 AS NOTED ON PLANS REVIEW  
 DEVELOPMENT SERVICES  
 LEE'S SUMMIT, MISSOURI  
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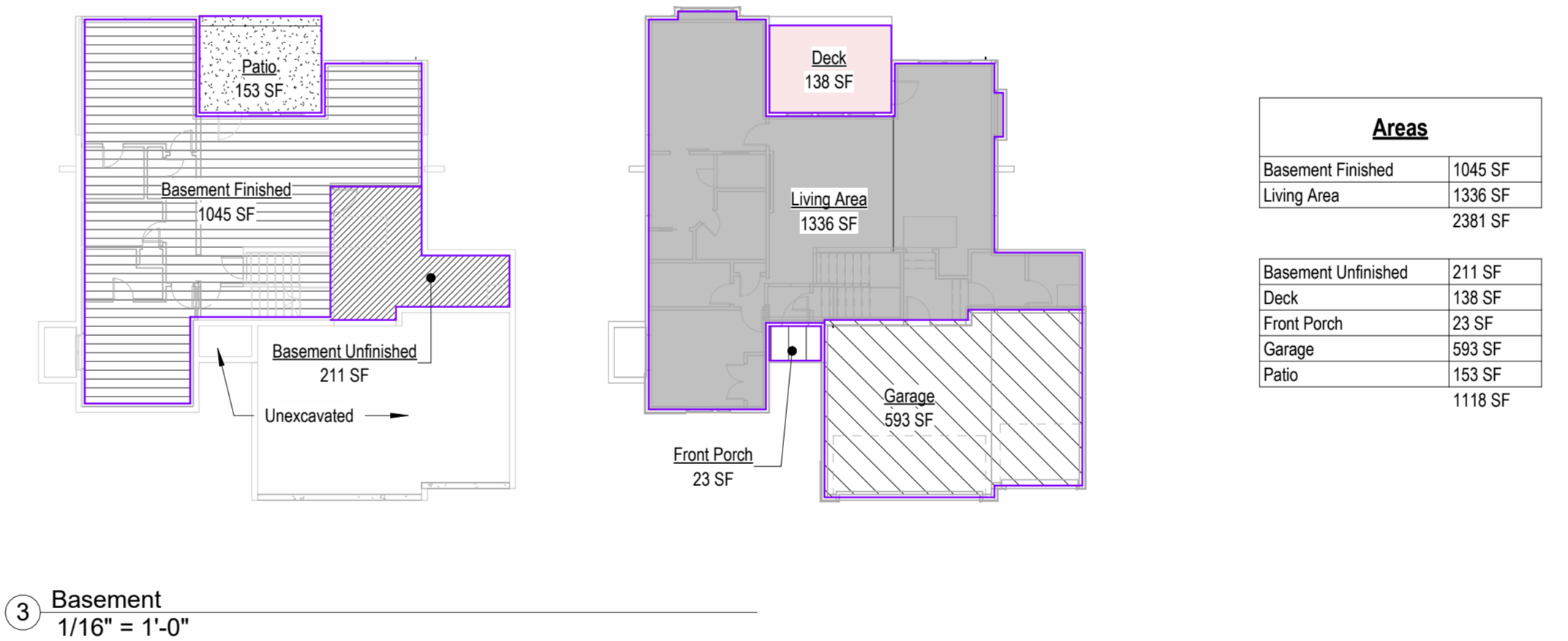
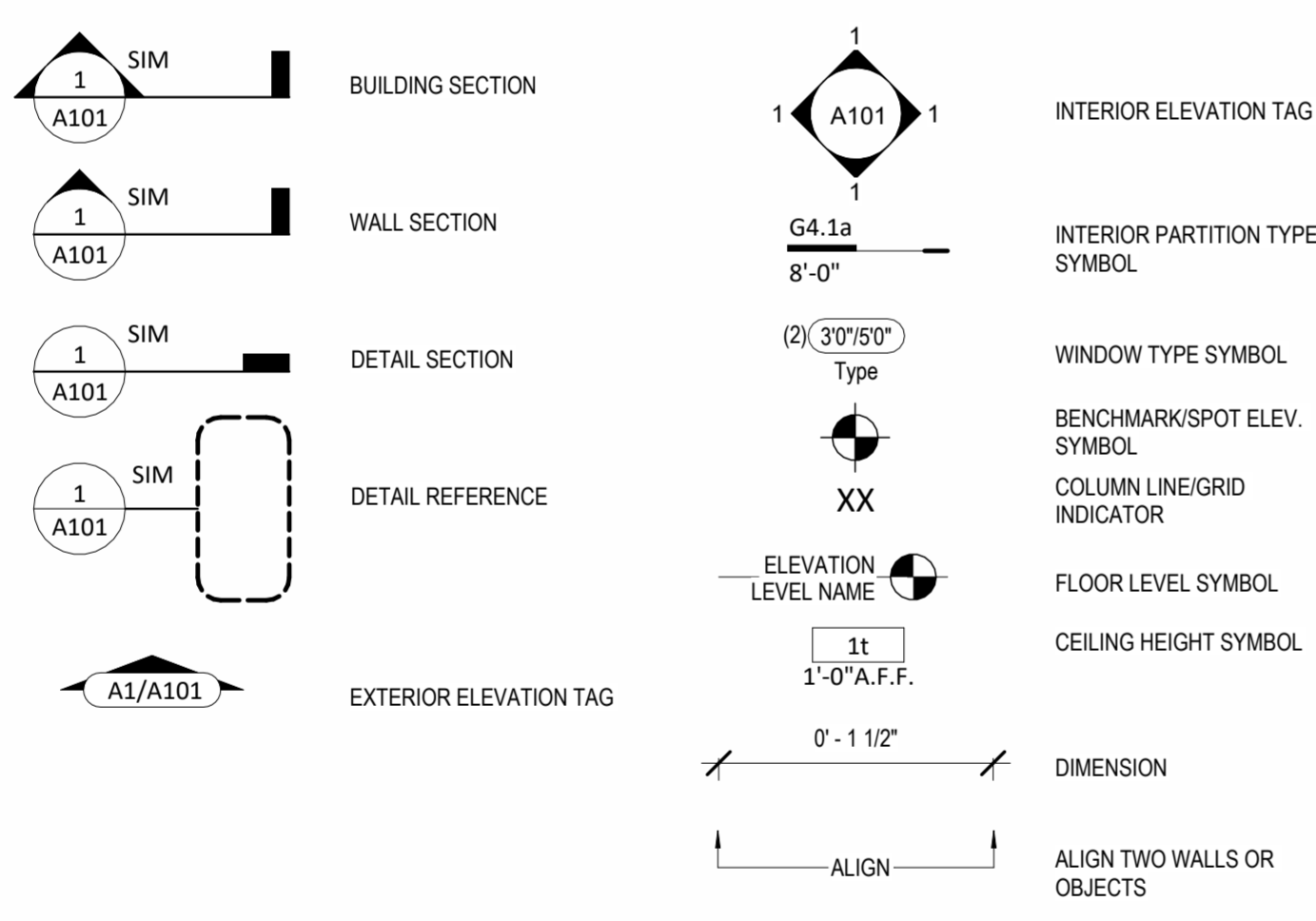
## Permit Set

PLAN DESCRIPTION: Greystone

00

### Sheet List

- 05 - Architecture
- A0 Foundation Plan
- A1 Floor Plan - Main Level
- A2 RCP/Electrical Plan
- A3.D Elevations
- A4.D Building Sections
- A5 Details
- A6 Details



3 Basement  
1/16" = 1'-0"

### Interior Partition Types

NOTES:  
1. PROVIDE MOISTURE RESISTANT GWB IN WET AREAS  
2. EXTEND ALL FIRE RATED WALLS STRUCTURE TO STRUCTURE.  
3. USE TYPE "X" GWB FOR ALL FIRE RATED PARTITIONS  
4. REFER TO ELEVATIONS FOR LOCATIONS WHERE WALL IS NOT FULL HEIGHT. IN THESE CASES CAP THE TOP OF THE WALL WITH A LAYER OF 1/2" GYPSUM BOARD U.N.O.

PARTITION IDENTIFICATION PLAN SYMBOL	G4	G4.1	G4.L	G6
BASE PARTITION THICKNESS	4.5"	4.5"	4.5"	6.5"
STUD SPACING (O.C.)	16"	16"	16"	16"
STUD SIZE	2x4	2x4	2x4	2x6
GWB THICKNESS	1/2"	5/8"	5/8"	1/2"
JOINT SEALANTS	No	No	No	No
INTERIOR LOAD BEARING WALL	No	No	Yes	No
FIRE RATING (HRS)	-	1	-	-
FIRE TEST NUMBER	-	U314	-	-
FIRE TEST NUMBER (HEAD OF WALL)	-	-	-	-
FIRE RESISTIVE JOINTS	-	-	-	-
ACOUSTIC RATING (STC)	-	-	-	-
ACOUSTICAL TEST NUMBER	-	-	-	-
INSULATION	No	Yes	No	No
ACOUSTICAL JOINTS	-	-	-	-
REMARKS:	* SEE NOTE #4	* SEE NOTE #3	* SEE NOTE #3	* SEE NOTE #4

**PARTITION SYSTEM:**  
GYPSUM WALL BOARD PARTITION **G**

NOTES:  
1. REFER TO ELEVATIONS FOR LOCATIONS WHERE WALL IS NOT FULL HEIGHT. IN THESE CASES CAP THE TOP OF THE WALL WITH A LAYER OF 1/2" GYPSUM BOARD U.N.O.

PARTITION IDENTIFICATION PLAN SYMBOL	F4
BASE PARTITION THICKNESS	4"
STUD SPACING (O.C.)	16"
STUD SIZE	2x4
GWB THICKNESS	1/2"
JOINT SEALANT	No
FIRE RATING (HRS)	-
FIRE TEST NUMBER	-
FIRE TEST NUMBER (HEAD OF WALL)	-
FIRE RESISTIVE JOINTS	-
ACOUSTIC RATING (STC)	-
ACOUSTICAL TEST NUMBER	-
INSULATION	No
ACOUSTICAL JOINTS	-
REMARKS:	* SEE NOTE #1

**PARTITION SYSTEM:**  
GYPSUM FURING PARTITION **F**

NOTES:  
1. REFER TO ELEVATIONS FOR LOCATIONS WHERE WALL IS NOT FULL HEIGHT. IN THESE CASES CAP THE TOP OF THE WALL WITH A LAYER OF 1/2" GYPSUM BOARD U.N.O.

PARTITION IDENTIFICATION PLAN SYMBOL	E4
BASE PARTITION THICKNESS	4"
STUD SPACING (O.C.)	16"
STUD SIZE	2x4
GWB THICKNESS	1/2"
JOINT SEALANT	Yes
FIRE RATING (HRS)	-
FIRE TEST NUMBER	-
FIRE TEST NUMBER (HEAD OF WALL)	-
FIRE RESISTIVE JOINTS	-
ACOUSTIC RATING (STC)	-
ACOUSTICAL TEST NUMBER	-
INSULATION	Yes
ACOUSTICAL JOINTS	-
REMARKS:	* SEE NOTE #1

**PARTITION SYSTEM:**  
Exterior Partition **E**

NOTES:  
1. REFER TO ELEVATIONS FOR LOCATIONS WHERE WALL IS NOT FULL HEIGHT. IN THESE CASES CAP THE TOP OF THE WALL WITH A LAYER OF 1/2" GYPSUM BOARD U.N.O.

PARTITION IDENTIFICATION PLAN SYMBOL	E4
BASE PARTITION THICKNESS	4"
STUD SPACING (O.C.)	16"
STUD SIZE	2x4
GWB THICKNESS	1/2"
JOINT SEALANT	Yes
FIRE RATING (HRS)	-
FIRE TEST NUMBER	-
FIRE TEST NUMBER (HEAD OF WALL)	-
FIRE RESISTIVE JOINTS	-
ACOUSTIC RATING (STC)	-
ACOUSTICAL TEST NUMBER	-
INSULATION	Yes
ACOUSTICAL JOINTS	-
REMARKS:	* SEE NOTE #1

**PARTITION SYSTEM:**  
Exterior Partition **E**

NOTES:  
1. REFER TO ELEVATIONS FOR LOCATIONS WHERE WALL IS NOT FULL HEIGHT. IN THESE CASES CAP THE TOP OF THE WALL WITH A LAYER OF 1/2" GYPSUM BOARD U.N.O.

PARTITION IDENTIFICATION PLAN SYMBOL	E4
BASE PARTITION THICKNESS	4"
STUD SPACING (O.C.)	16"
STUD SIZE	2x4
GWB THICKNESS	1/2"
JOINT SEALANT	Yes
FIRE RATING (HRS)	-
FIRE TEST NUMBER	-
FIRE TEST NUMBER (HEAD OF WALL)	-
FIRE RESISTIVE JOINTS	-
ACOUSTIC RATING (STC)	-
ACOUSTICAL TEST NUMBER	-
INSULATION	Yes
ACOUSTICAL JOINTS	-
REMARKS:	* SEE NOTE #1

**PARTITION SYSTEM:**  
Exterior Partition **E**

NOTES:  
1. REFER TO ELEVATIONS FOR LOCATIONS WHERE WALL IS NOT FULL HEIGHT. IN THESE CASES CAP THE TOP OF THE WALL WITH A LAYER OF 1/2" GYPSUM BOARD U.N.O.

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JOINT SEALANT	Yes
FIRE RATING (HRS)	-
FIRE TEST NUMBER	-
FIRE TEST NUMBER (HEAD OF WALL)	-
FIRE RESISTIVE JOINTS	-
ACOUSTIC RATING (STC)	-
ACOUSTICAL TEST NUMBER	-
INSULATION	Yes
ACOUSTICAL JOINTS	-
REMARKS:	* SEE NOTE #1

**PARTITION SYSTEM:**  
Exterior Partition **E**

Foundation Wall Schedule			
Type	Width	Reinforcing	Comments
C8	0'-8"	Reinf. w/ #4 vert. @ 12" oc / (3) #4 hor. equally spaced.	<varies>

Slab Schedule	
Type	Description
S4.1	4" MIN CONC SLAB REINF. W/ #4'S E.W. @ 12" O.C. OVER COMPACTED FILL AND GRAVEL
S8.1	8" MIN CONC SLAB REINF. W/ #4'S E.W. @ 12" O.C. OVER COMPACTED FILL AND GRAVEL

Structural Foundation Schedule					
Type	Width	Length	Depth	Reinforcing	Comments
<b>Footings</b>					
F1	3'-0"	3'-0"	1'-0"	Reinf w/ (6) #4's, rebar count is each way, equal centers	
F2	4'-0"	4'-0"	1'-4"	Reinf w/ (8) #4's, rebar count is each way, equal centers. (8) #4's, vertical rebar count in pedestal column. Hold ped down 12" Min below gar. door block-down and/or bottom of slab.	GARAGE PEDISTAL
<b>Foundation - Round</b>					
F3	1'-4"	1'-4"	3'-0"	ABA66Z Post Base. Refer to Detail for Reinforcing.	
<b>Wall Foundation</b>					
FTG-1	1'-4"	<varies>	0'-8"	Reinf w/ (2) #4 bot. eq. spaced. Dowel into wall w/ (1) #4 turned up @ 12" o.c. <varies>	
FTG-2	1'-0"	<varies>	3'-0"	Reinf. w/ (2) #4 vert. T/B wrapped in #4 stirrup @ 48" o.c.	

**Foundation Notes:**

FOOTINGS FOUNDATION & CONCRETE NOTES

1. TO ADDRESS DIFFERENTIAL SETTLEMENT, ALL INTERIOR BEARING AND EXTERIOR FOOTINGS & PADS TO BE EXCAVATED & PLACED MIN. 18 INCHES INTO UNDISTURBED NATURAL SOIL.
2. EXT. FOOTING TO BE PLACED MIN. 36 INCHES BELOW FIN. GRADE.
3. DESIGN IS BASED ON MIN. OF 2500 PSF. CONCRETE STRENGTHS TO ACHIEVE THE FOLLOWING BASED UPON:
  - A. 3,000 PSI FOR FOOTINGS, FOUND. WALLS & VERT. SUPPORTS
  - B. 3,500 PSI FOR GARAGE FLOOR
4. CONC. EXPOSED TO WEATHER TO HAVE (4% +/- 1%) AIR ENTRAINMENT
5. PROVIDE 4" MIN. CONC. SLAB REINF. W/ #4 @ 12" O.C. E.W. TOP REIN. OVER PEDISTALS AS INDICATED IN 17 FT @ 8" O.C. E.W. PLACE OVER 6 MIL VAPOR BARRIER
6. REINFORCE EXTERIOR FOOTINGS W/ #4 @ 24" E.W. REINFORCE W/ (2) #4 CONT. AT BOTTOM.
7. PROVIDE #4 X 4" (L) @ 45 DEGREES @ REINTRANT CORNERS
8. 10" FULL ANCHOR ANCHOR BOLTS @ 8" O.C. @ EXT. WALLS
9. ANCHOR PRESSURE TREATED PLATE @ INT. BEARING WALLS W/ 1/2" X 4-1/2" H/LTI WEDGE W/ #4 @ 12" O.C. MAX. 12" FROM ENDS
10. PROVIDE 24" LAPS MIN. INCLUDING CORNERS
11. INSTALL HOLD-DOWN BOLT ANCHORAGE AS INDICATED ON PLAN
12. PROVIDE BITUMINOUS DAMP-PROOFING AT FOUNDATION WALLS
13. SOIL BEARING CAPACITY IS NOT ASSUMED TO BE GREATER THAN 2,000 PSF IN THE CURRENT FOUNDATION DESIGN. ALL COMPACTED FILL AREAS REQUIRE A SPECIAL INSPECTION.

STEEL COLUMNS & OTHER BASEMENT FOUNDATION NOTES

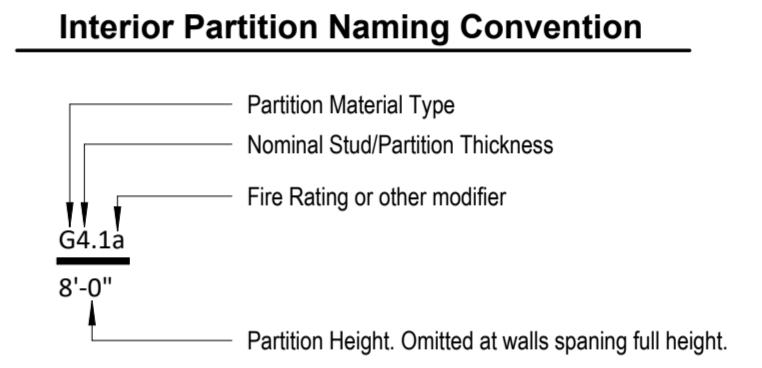
1. ALL STEEL PIPE COLUMNS TO BE 3" OR 1 1/2" SCHEDULE 40 GRADE
2. INTER. BEARING WALLS & COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB
3. INTER. NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING, SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE
4. AT WALL/JOIST FOUNDATION AREAS: REINFORCE THE SLAB FROM THE FOUNDATION WALL TO 2 FEET BEYOND THE OVERCURE AREA WITH #4 BARS @ 24 INCHES O.C. PERPENDICULAR AND HORIZONTAL TO THE WALL, MAXIMUM 4-FEET OVERCURE.
5. AT WALL/JOIST FOUNDATION WALLS SHALL BE ISOLATED WITH A MINIMUM #4 INSULATION FOR A MIN. OF 3 FEET BELOW THE BOTTOM OF THE SLAB.
6. WHERE FLOOR JOISTS ARE PARALLEL TO THE FOUNDATION WALL, THE WALL SHALL BE SUPPORTED LATERALLY AT THE TOP BY SOLID BLOCKING FOR MINIMUM OF TWO JOIST SPACES, SPACED NOT MORE THAN 4 FEET O.C.

**Deck Ledger Attachment**

1. (2) Lags required at EA, end 2" from ends.
2. Provide 1x4 treated spaced behind EA, lag.
3. Provide lags in EA joist space w/ (2) every other space, 2" from edges.
4. Min. size lag is 1/2" diam x 6" length
5. Provide flashing between rim joist and ledger.

Escape opening-44" A.F.F. Max. to lowest portion.

- Min. 5.7sqft of window opening.
- Net clear height 24" Min
- Net clear width 20" Min.



BRACED WALL LINE SCHEDULE (Lower Level)						
WALL LINE	TOTAL LENGTH	AVG SPACING	BASE	TABLE R602.10.3 ADJ FACTOR	REQ'D LENGTH	PROVIDED LENGTH
LOWER LEVEL						
B	11'	11"	6.5'	0.95	6.18'	7.00'
4	26'	26"	9.0'	0.95	8.55'	9.00'
5	14'	14"	6.5'	0.95	6.18'	7.00'

\* CS-PF PANELS CONTRIBUTING LENGTH ARE CALCULATED AT 1.5x ACTUAL LENGTH PER TABLE R602.10.5

1. CS-WSP PANELS: DISTANCE FROM END OF BRACED WALL LINE TO FIRST BRACED WALL PANEL CANNOT EXCEED A COMBINED TOTAL OF 10' PER R602.10.2.2
2. WOOD STRUCTURAL PANELS: BLOCKING OF HORIZONTAL JOINTS IS REQUIRED UNLESS EXCEPTION R602.10.4.1 IS NOTED AS BEING APPLIED IN SCHEDULE ABOVE.
3. CS-WSP PANELS: MIN. 2 PANELS AT BOTH CORNERS WITHOUT USING HOLD DOWNS PER R602.10.4.4 AND MAX. 12'-6" FROM CORNER
4. CS-WSP PANELS: MIN PANELS LENGTH ADJACENT TO AN OPENING FOR 9" PLATE = 27", FOR 8" PLATE = 24" PER TABLE R602.10.5.

architect:  
**Elevate Design + Build**  
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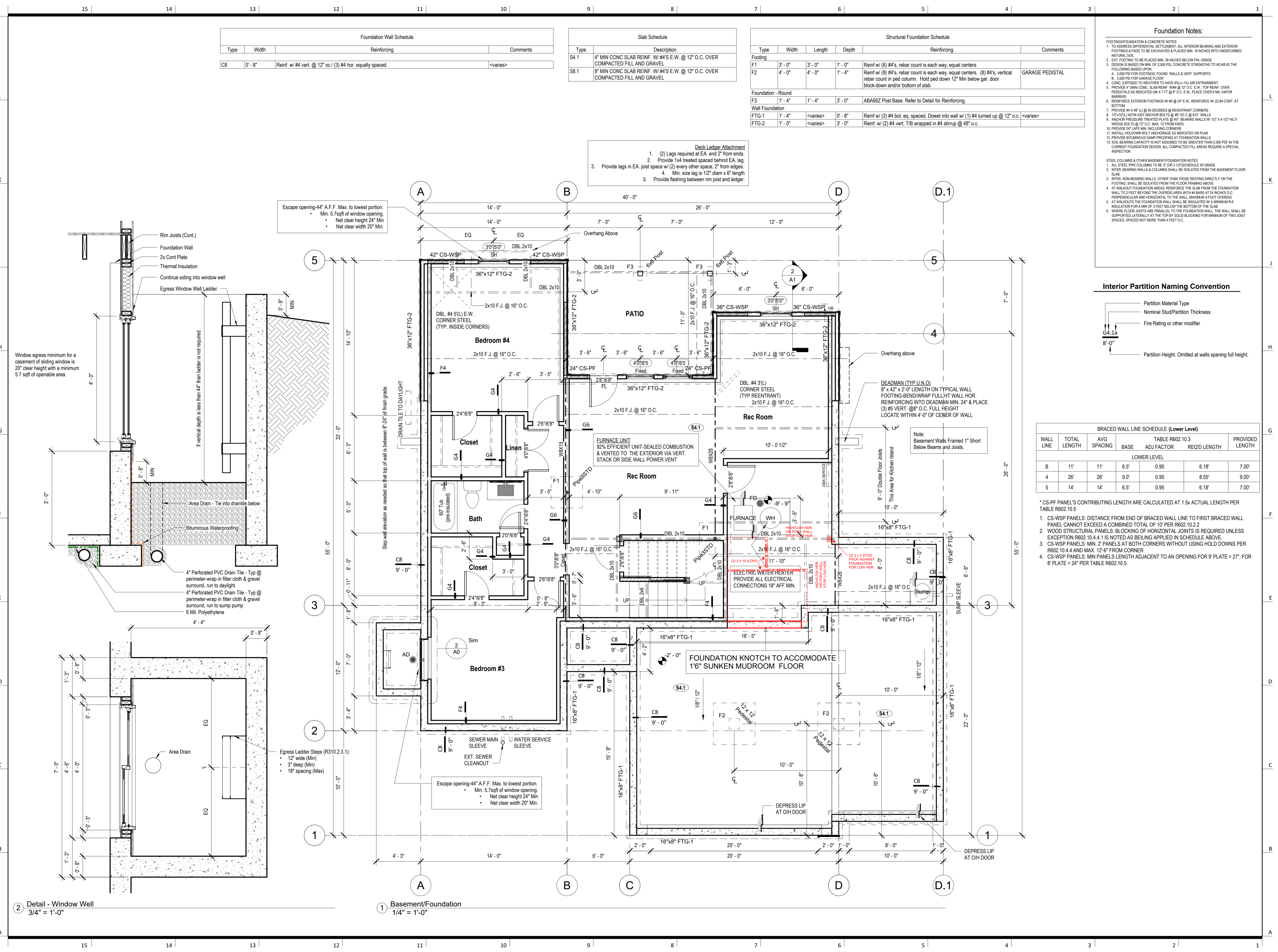
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Number	DESCRIPTION	DATE
1	Revision 1	10/27/2021

Foundation Plan

**A0**

Project No. HF-117

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2 Detail - Window Well  
3/4" = 1'-0"



1 Basement/Foundation  
1/4" = 1'-0"

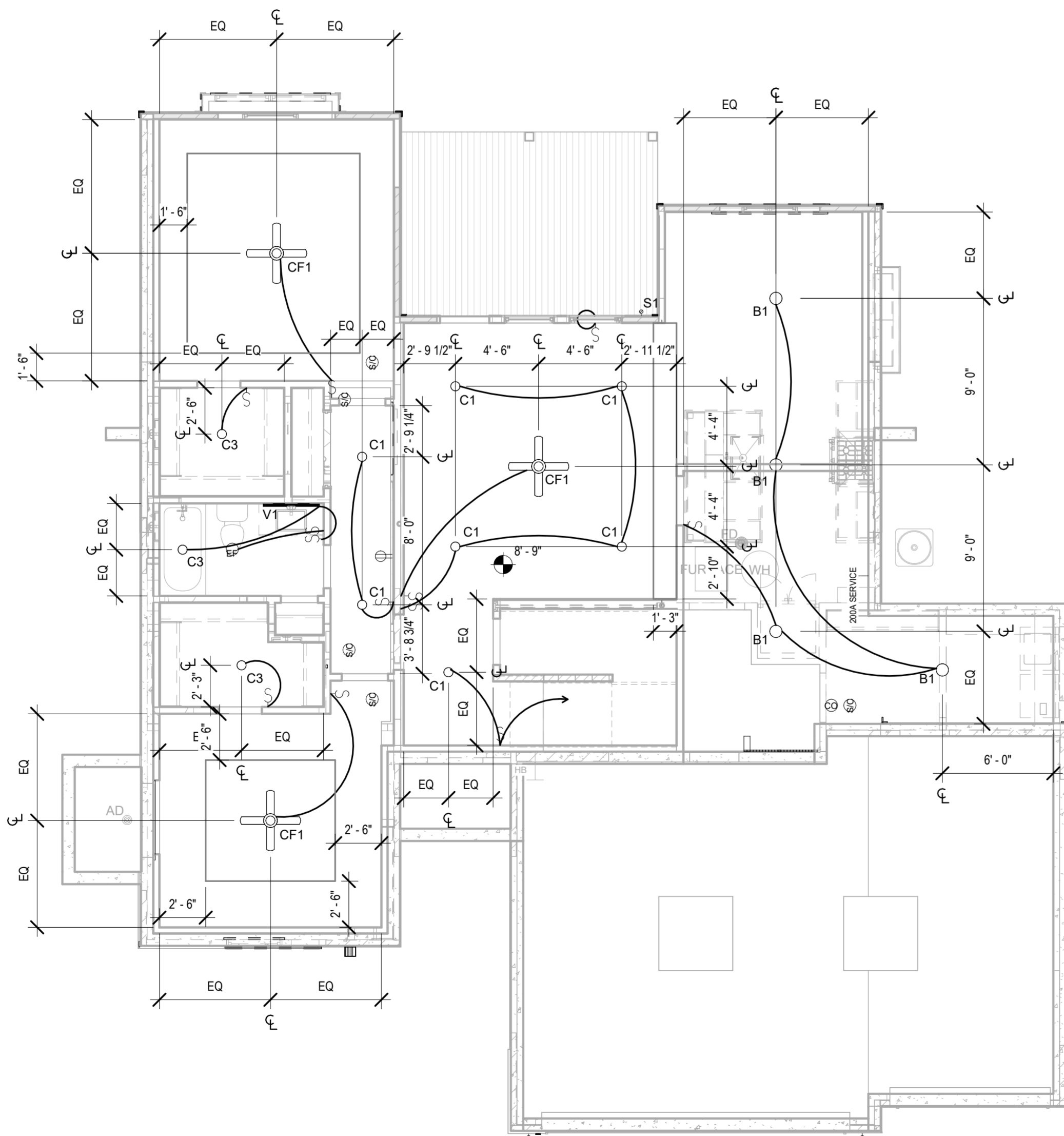


**Greystone - Hook Farms - Lot 117**

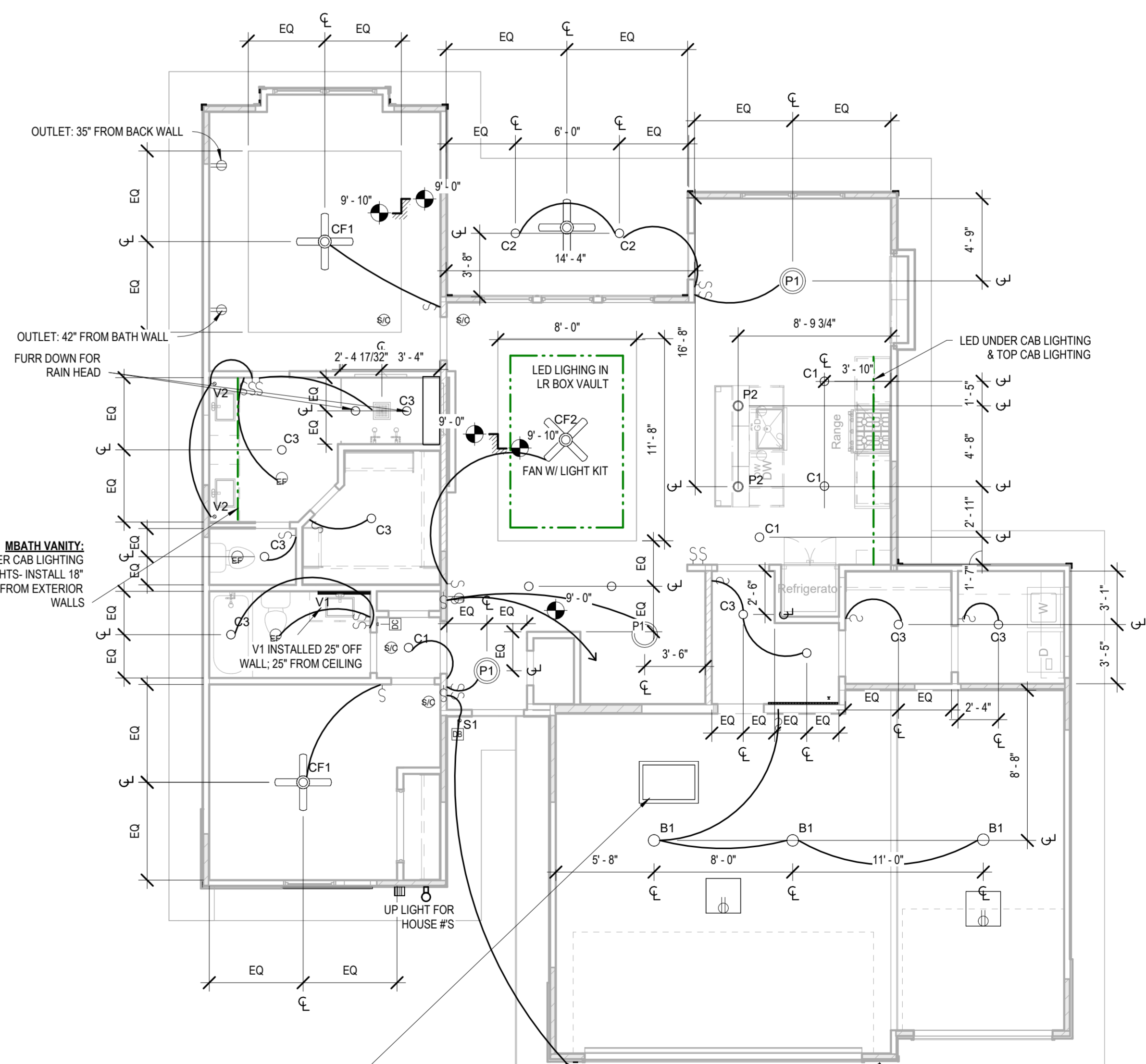
Lighting Fixture Schedule		
Type Mark	Description	Type Comments
B1	Ceiling Mounted Exposed Bulb	
C1	Recessed Can Light - Interior	
C2	Recessed Can Light - Exterior	
C3	LED Disk Light	
CF1	Ceiling Fan w/ Light - Surface Mounted	
CF2	Ceiling Fan w/ Light - Down Rod	Mount with 2'-0" Down Rod
P1	Decorative Pendant Fixture	Mount bottom of fixture 84" AFF
P2	Decorative Pendant Fixture	Mount bottom of fixture 84" AFF
S1	Wall Sconce - Exterior	
V1	Vanity Wall Mounted	
V2	Vanity Wall Mounted	

Note:  
1. Lighting fixtures penetrating the thermal envelope (Ex: can lights in attic) shall be IC-Rated, Leakage-Rated and sealed to the gypsum wallboard (N1103.1.1)

Legend - RCP  
 Wall Mounted   
 Ceiling Mounted   
 CO - Carbon Monoxide Detector  
 S - Smoke Detector  
 S/C - Smoke Detector/CO Detector



② RCP/Electrical - Basement  
3/16" = 1'-0"



① RCP/Electrical Plan - Main Level  
3/16" = 1'-0"

Attic Access - Rough framed opening shall be not less than 22"x30" with 30" clear head space above opening measured vertically from bottom of ceiling framing member. Provide light (B1) and plug within attic at the access door.

architect:  
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 1040 SW Luttrell Road  
 Blue Springs, MO 64015  
 816.622.8826 voice  
 www.elevatedesignbuild.com  
 2206 SW Hook Farms Dr.  
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RCP/Electrical Plan

**A2**

# Greystone - Hook Farms - Lot 117

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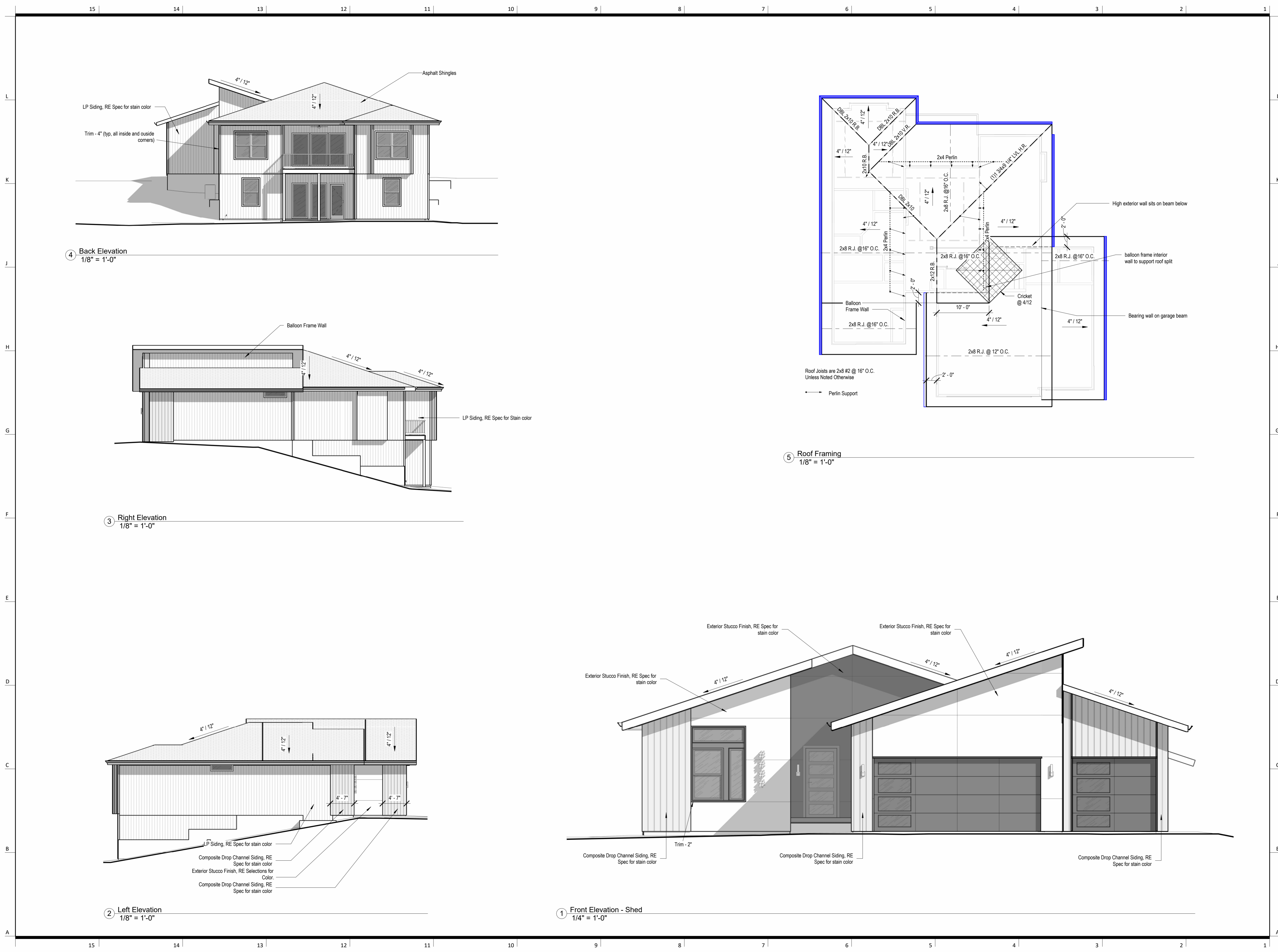
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Elevations

## A3.D

Project No. HF 117

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④ Back Elevation  
1/8" = 1'-0"

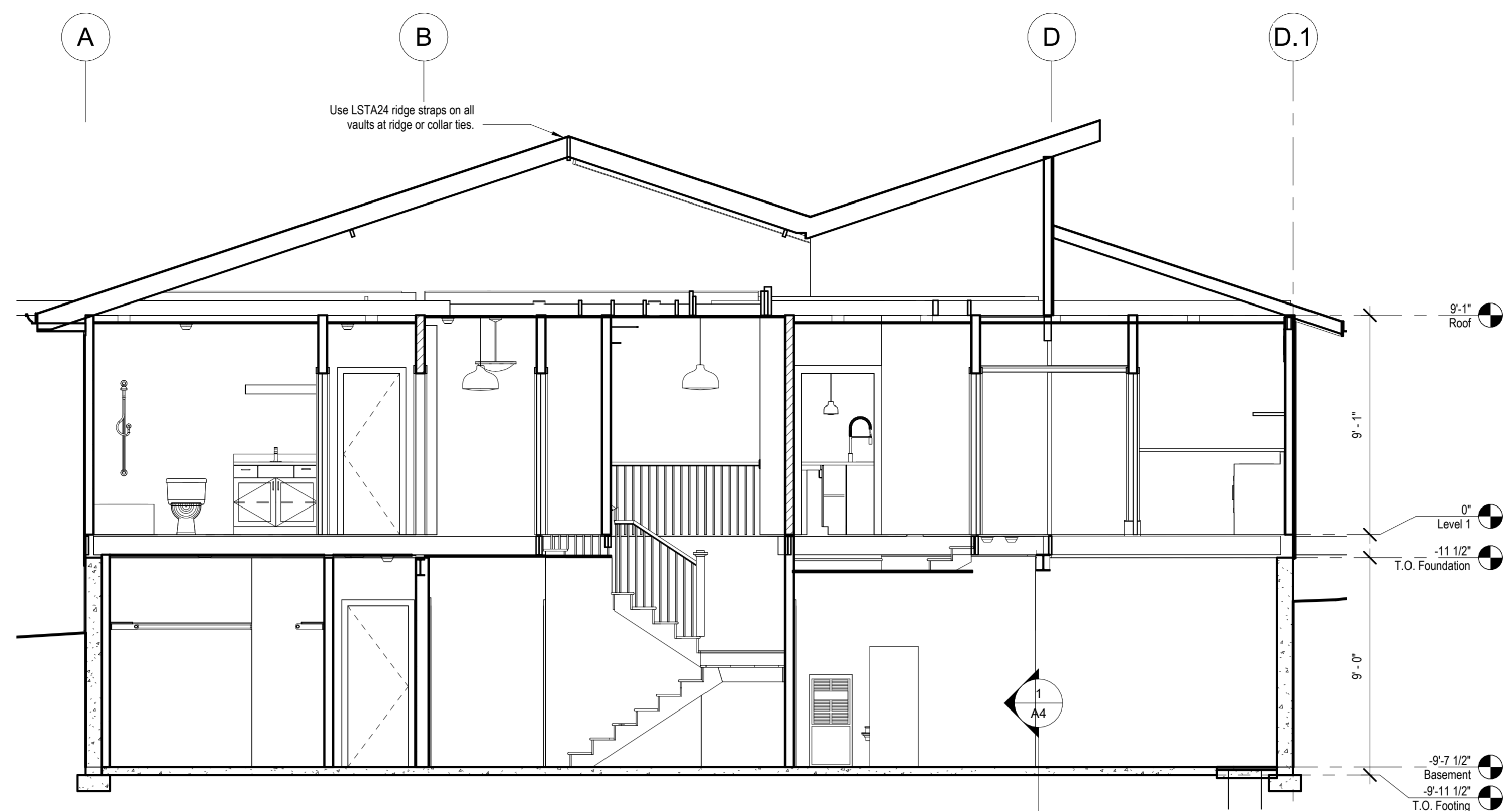
③ Right Elevation  
1/8" = 1'-0"

② Left Elevation  
1/8" = 1'-0"

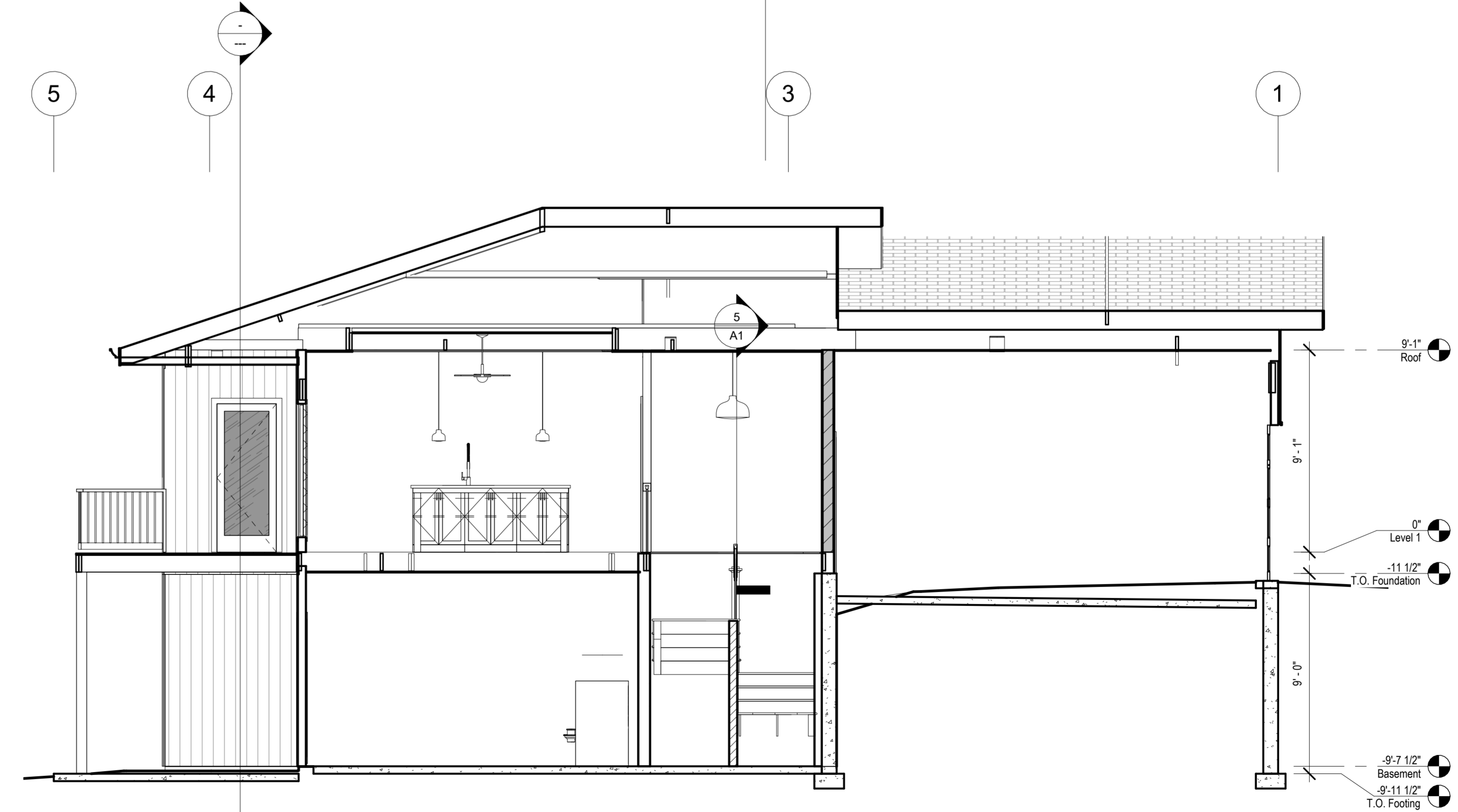
⑤ Roof Framing  
1/8" = 1'-0"

① Front Elevation - Shed  
1/4" = 1'-0"

**Greystone - Hook Farms - Lot 117**



② Building Section  
1/4" = 1'-0"



① Building Section  
1/4" = 1'-0"

architect:  
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Building Sections

**A4.D**

Project No.

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architect:  
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Number	DESCRIPTION	DATE

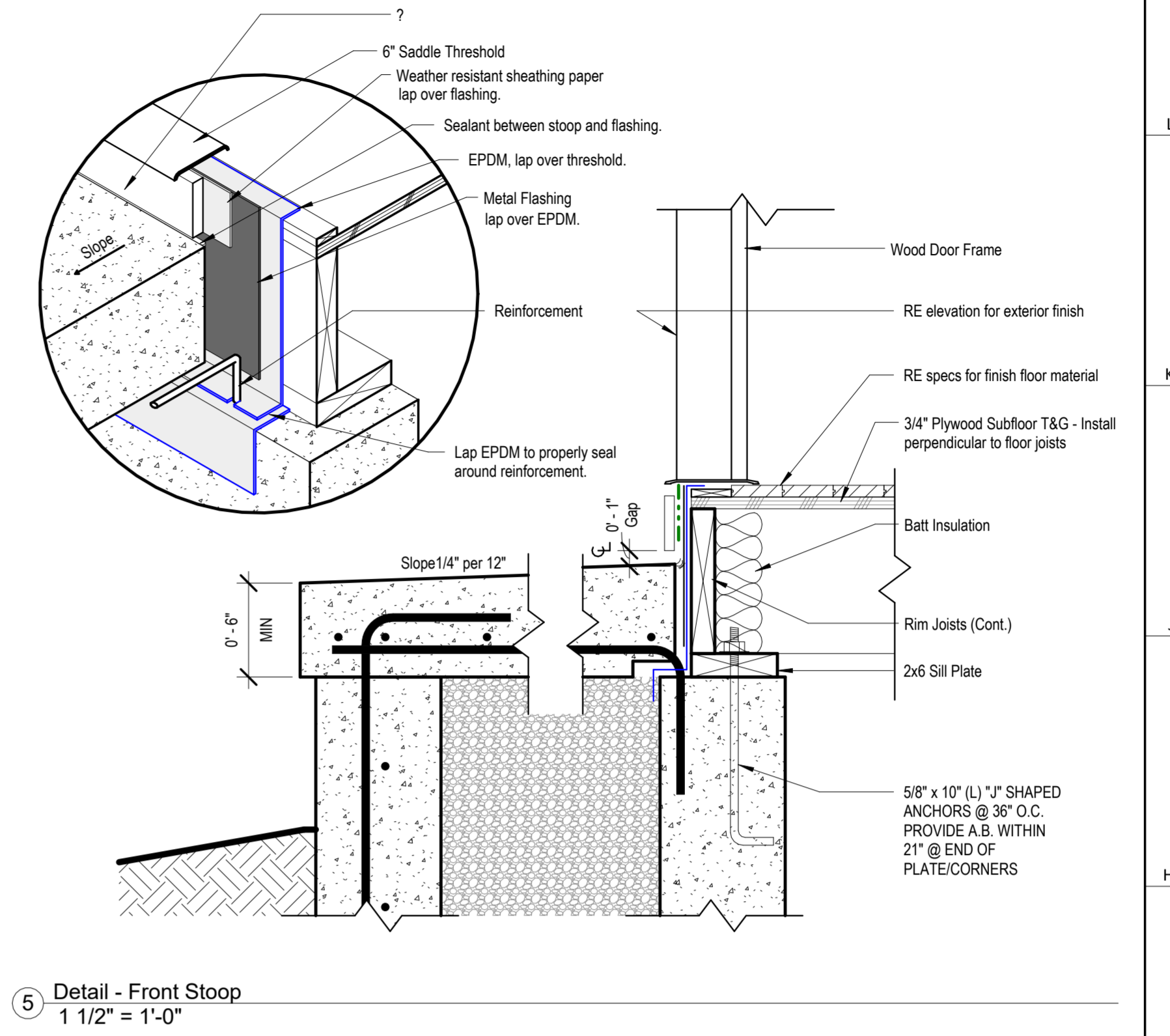
Permit Set

Details

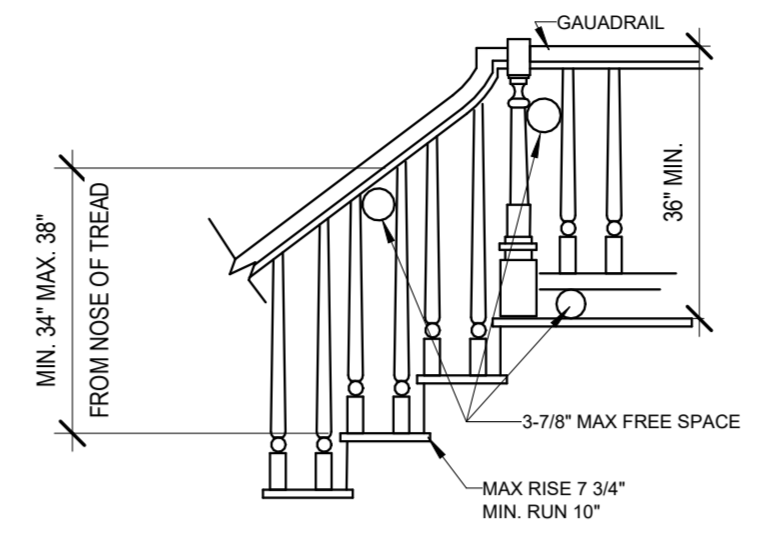
Project No.

**A5**

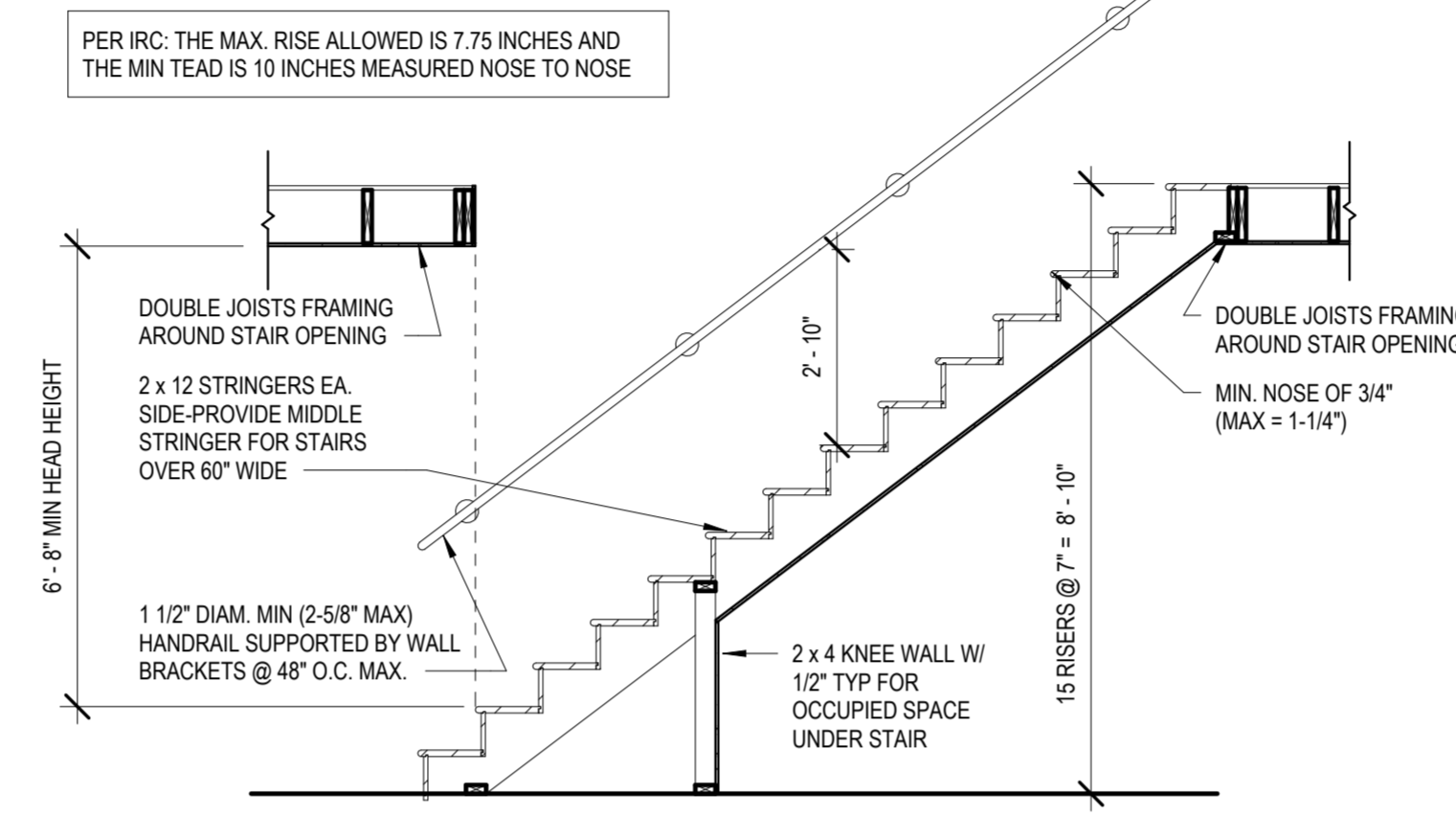
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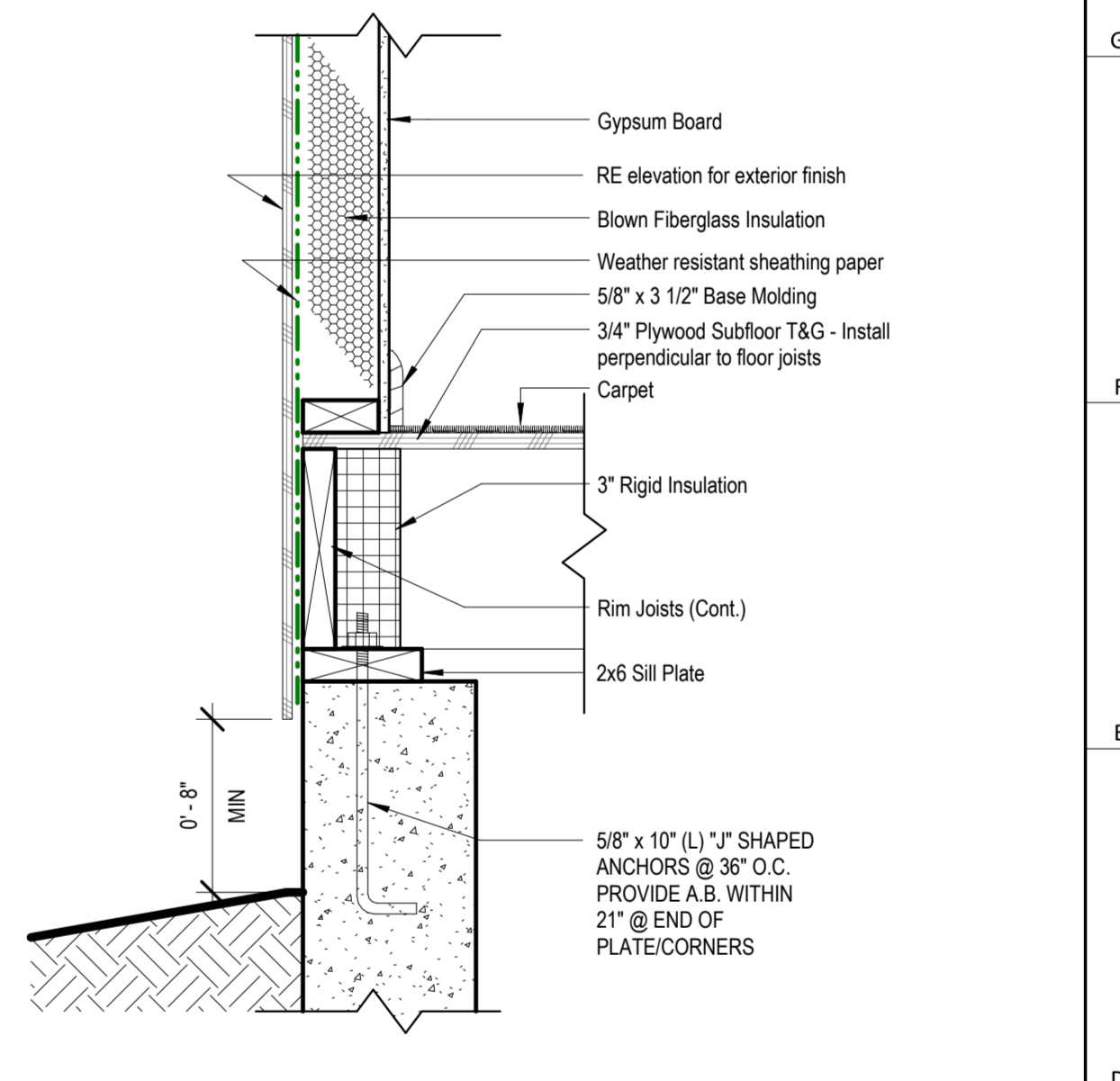
5 Detail - Front Stoop  
1 1/2" = 1'-0"



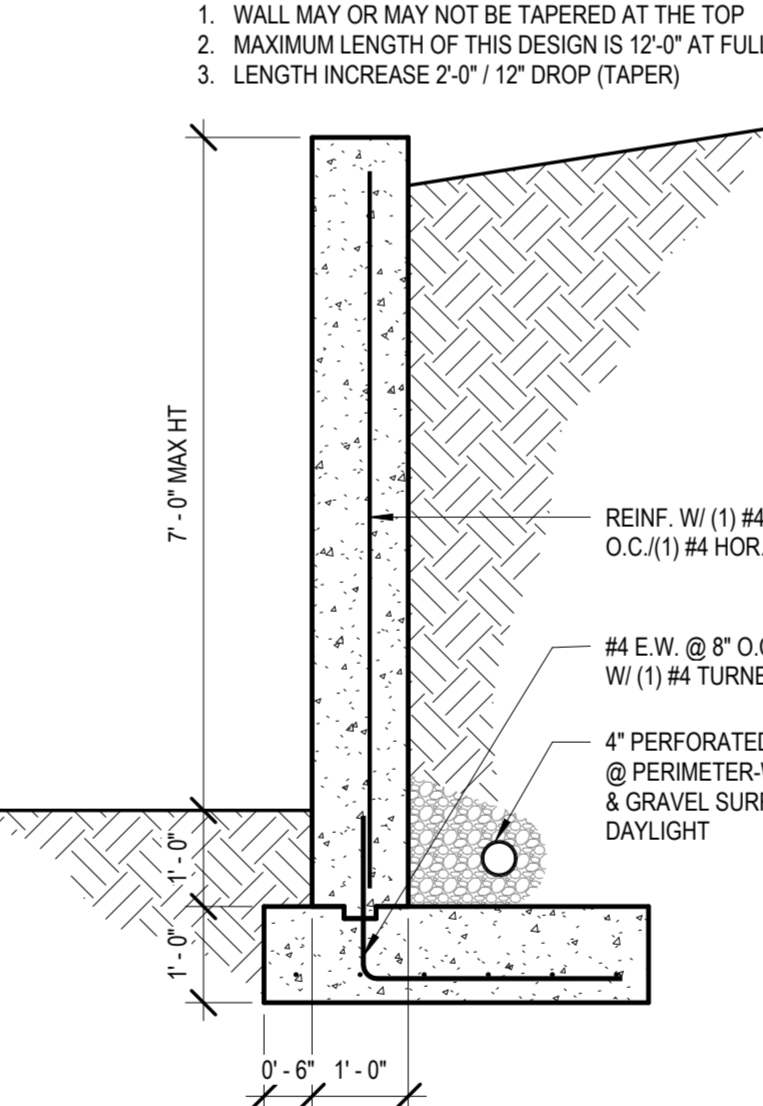
2 SMARTSIDE PANEL NAILING PATTERN  
3" = 1'-0"



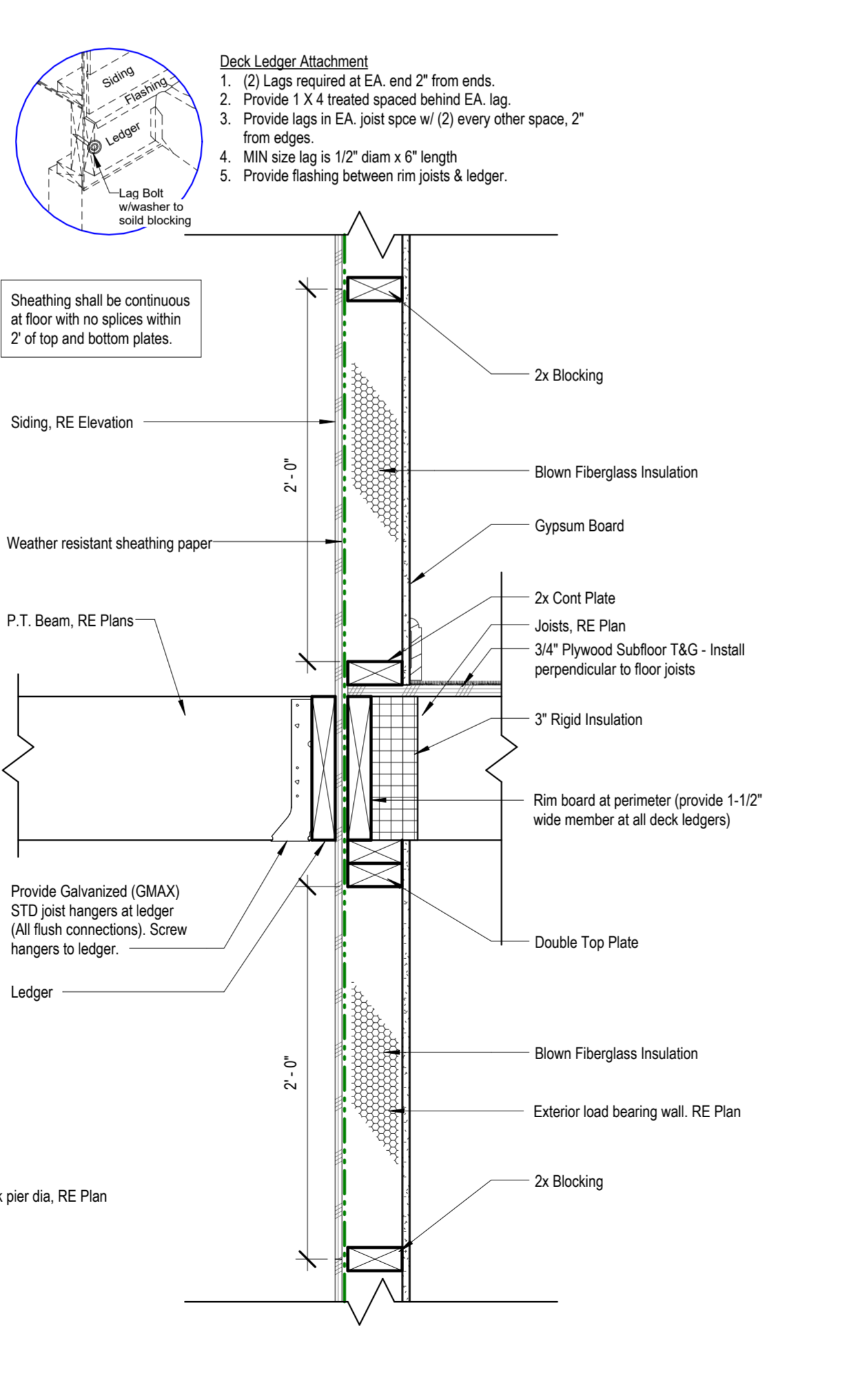
6 TYP STAIR SECTION/REQUIREMENTS  
3/8" = 1'-0"



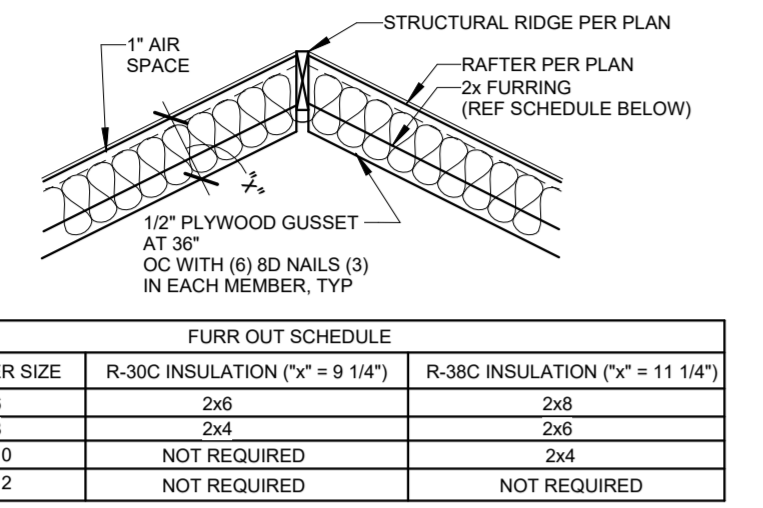
3 Detail - Top of Foundation Wall  
1 1/2" = 1'-0"



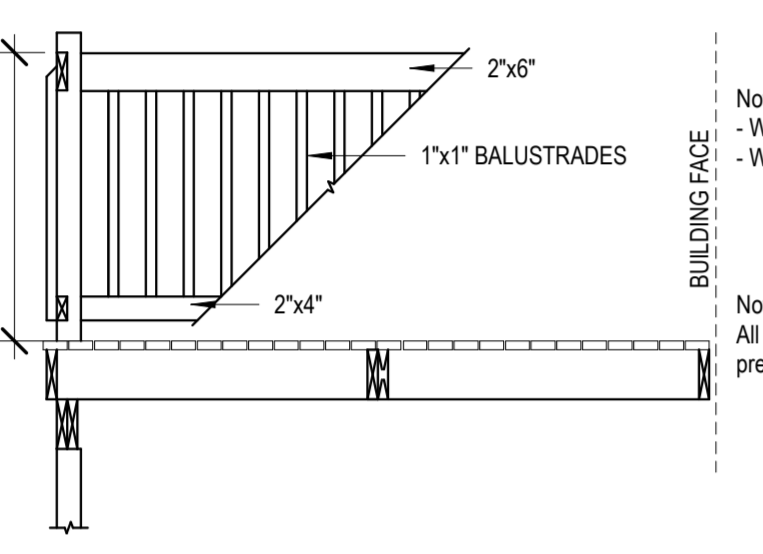
4 RETAINING WALL DESIGN  
1/2" = 1'-0"



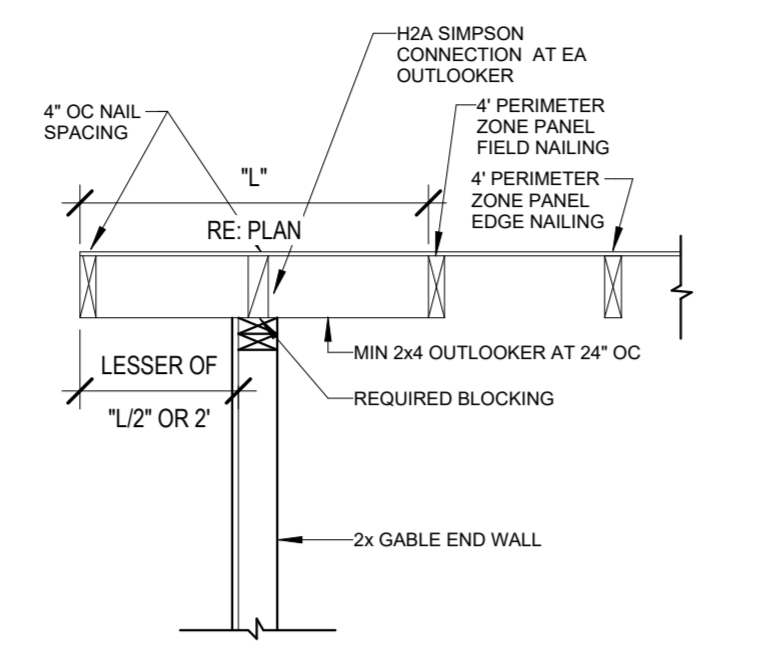
10 Lateral Deck Connection  
1 1/2" = 1'-0"



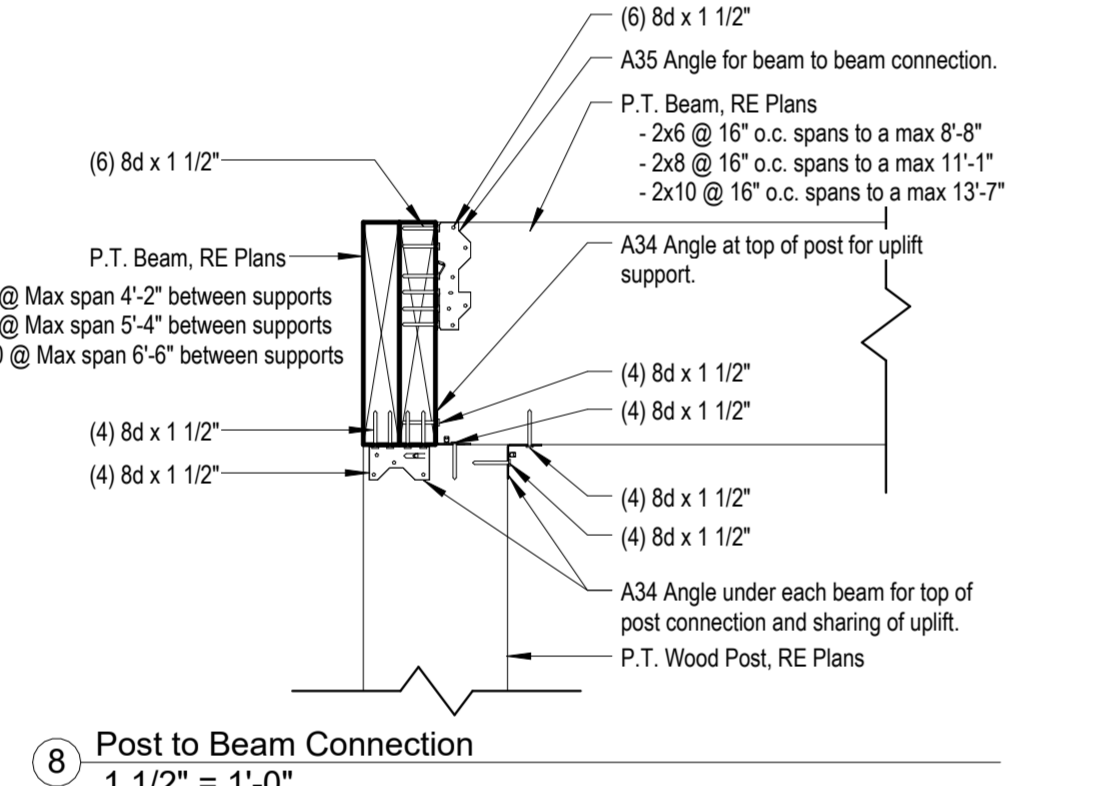
12 Rafter Furr Down Requirements  
1" = 1'-0"



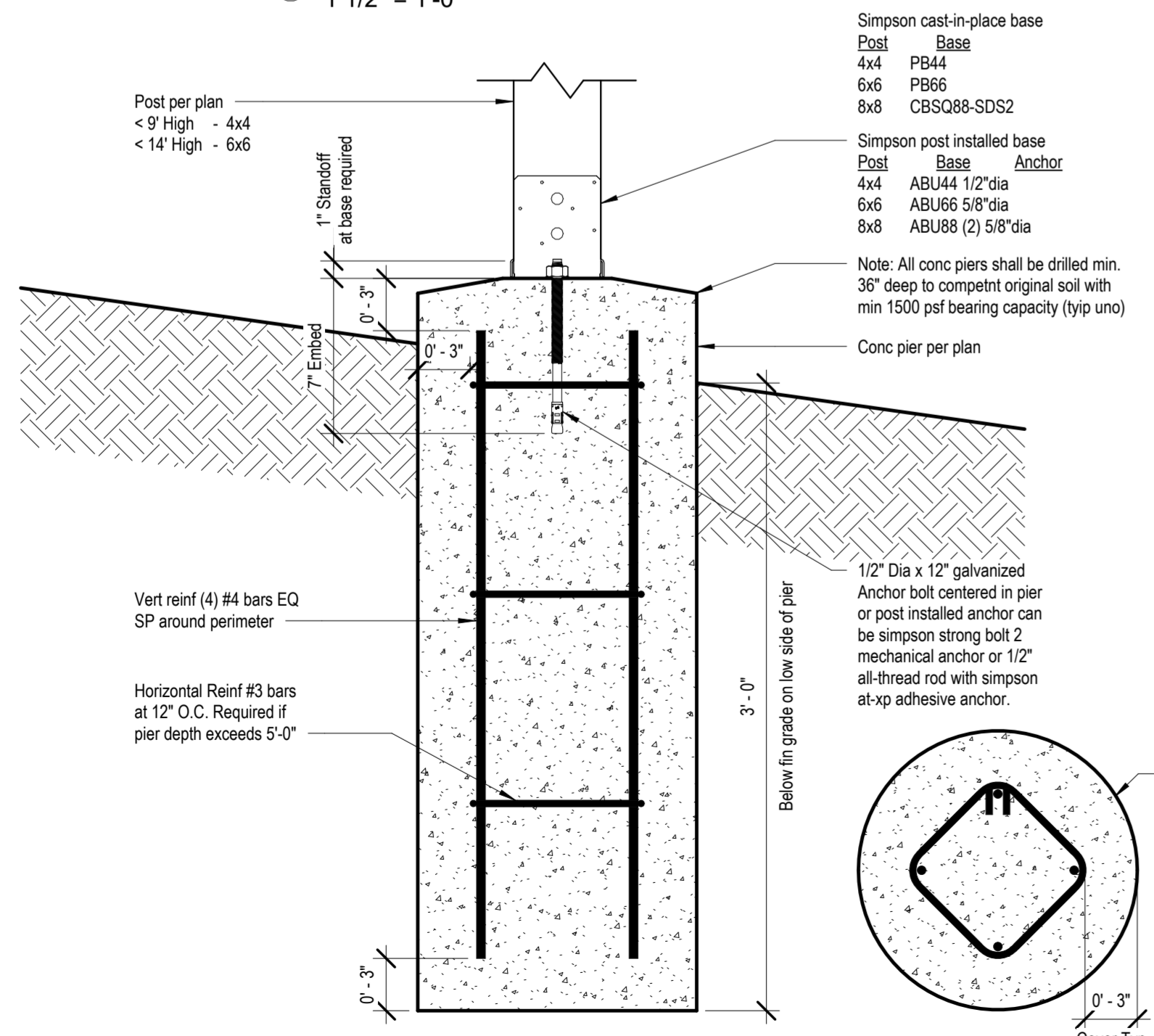
11 Deck Railing  
1/2" = 1'-0"



7 Gable Framing Requirements  
1" = 1'-0"



8 Post to Beam Connection  
1 1/2" = 1'-0"

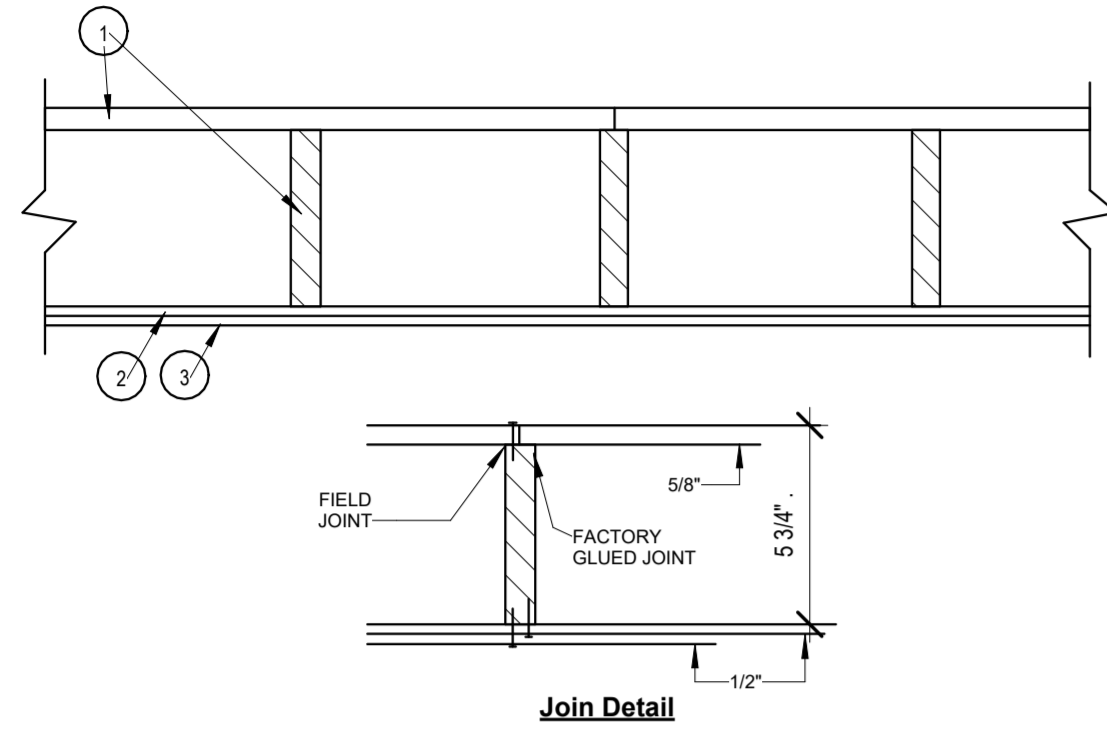


9 Typ Details for Post/Pier  
1 1/2" = 1'-0"

**Design No. L504**

Unrestrained assembly rating - 1Hr.  
Finish Rating - 24 Min.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or CUL Certification (such as Canada), respectively.



1. Floor Panels / Finished Floor - Composed of plywood floor glued to wood stringers. Floor measures 48 in. wide by 5/8 in. thick of structural interior with exterior glue. C-D Grade Douglas fir plywood. Stringers located 12 in. OC of 1200-psi graded lumber measuring 1 1/16 by 5-1/4 in. or greater. Firestop's provided between stringers at panel ends from same lumber as stringers. Plywood, stringers, and firestop's laminated with casein glue. Joints in plywood may be either scarfed or butted. Adjacent panels joined with 8d common nails 6 in. OC.

Finish Floor - (Optional Not Shown) - The optional finish flooring may consist of one of the following systems to be applied over Item 1:

**System No. 3**

**Finish Flooring - Floor Topping Mixtures** - Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

**MAXXON CORP** - Types Maxxon Standard and Maxxon High Strength

2. **Sound-Deadening Board** - Nom 4 by 8 by 1/2 in. thick plain wood fiber board weighing 15 to 18 lb per cu ft. Installed with long dimension parallel with stringers and attached to each stringer with 5d cement coated cooler nails, 1-5/8 in. long, 0.086 in. shank diameter with 1/4 in. diameter flat head spaced nails 12 in. OC. Nails spaced 1/2 in. from side and end joints.

3. **Gypsum Board\*** - Nom 1/2 in. thick, installed with long dimension perpendicular to stringers and secured to each stringer with 8d cement coated cooler nails, 2-3/8 in. long, 0.113 in. shank diameter with 9/32 in. diameter flat head spaced 6 in. OC at end joints and 8 in. OC elsewhere. Nails spaced 3/4 and 1/2 in. from side and end joints respectively. Joints in gypsum board shall be staggered with joints in sound-deadening board.

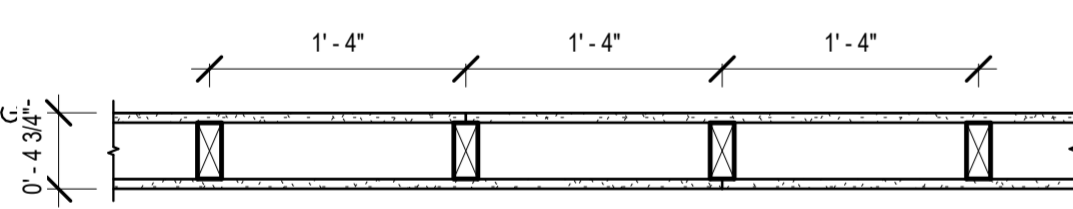
**AMERICAN GYPSUM CO** - Type AC-C

4. **Finishing System** - (Not Shown) - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or CUL Certification (such as Canada), respectively.

UL #L504-1 HR CEILING-FLOOR ASSEMBLY

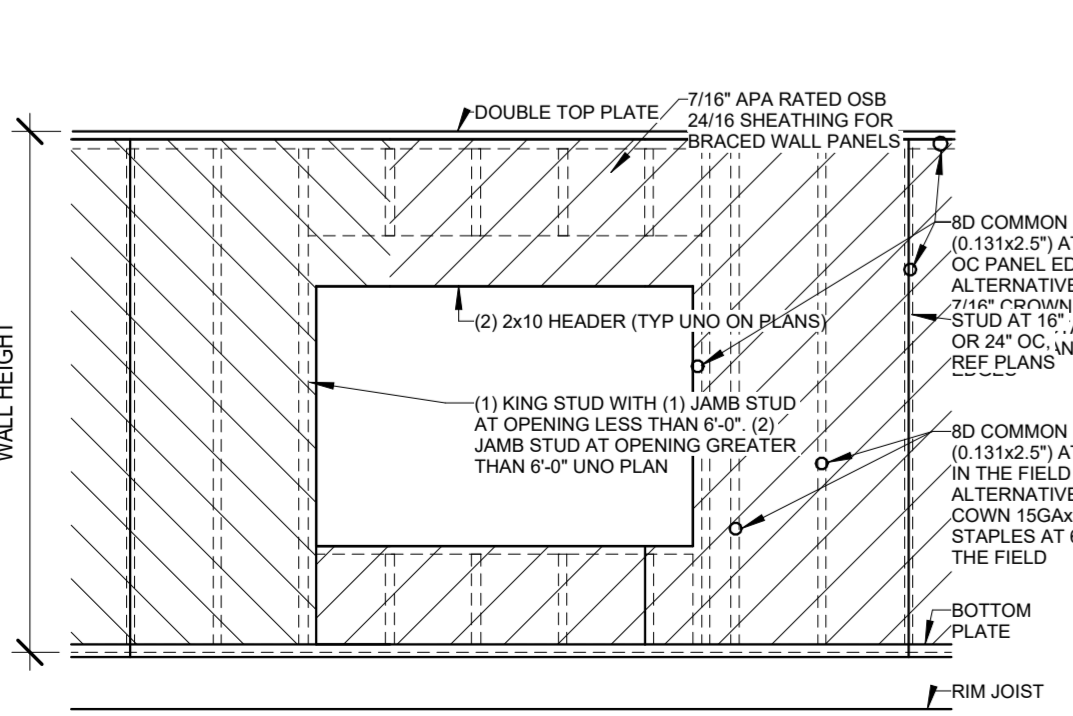
**UL DESIGN NO. U305**  
FIRE RATING: 1 HOUR  
SYSTEM THICKNESS: 4 3/4"



**ASSEMBLY OPTIONS:**

- GYPSUM BOARD:** ONE LAYER 5/8" THICK GYPSUM BOARD (UL TYPE ULIX™)
- WOOD STUDS:** 2X4 WOOD STUDS, 16" O.C.
- GYPSUM BOARD:** ONE LAYER 5/8" THICK GYPSUM BOARD (UL TYPE ULIX™)

UL #U305-1 HR WALL ASSEMBLY - INTERIOR, LOAD BEARING

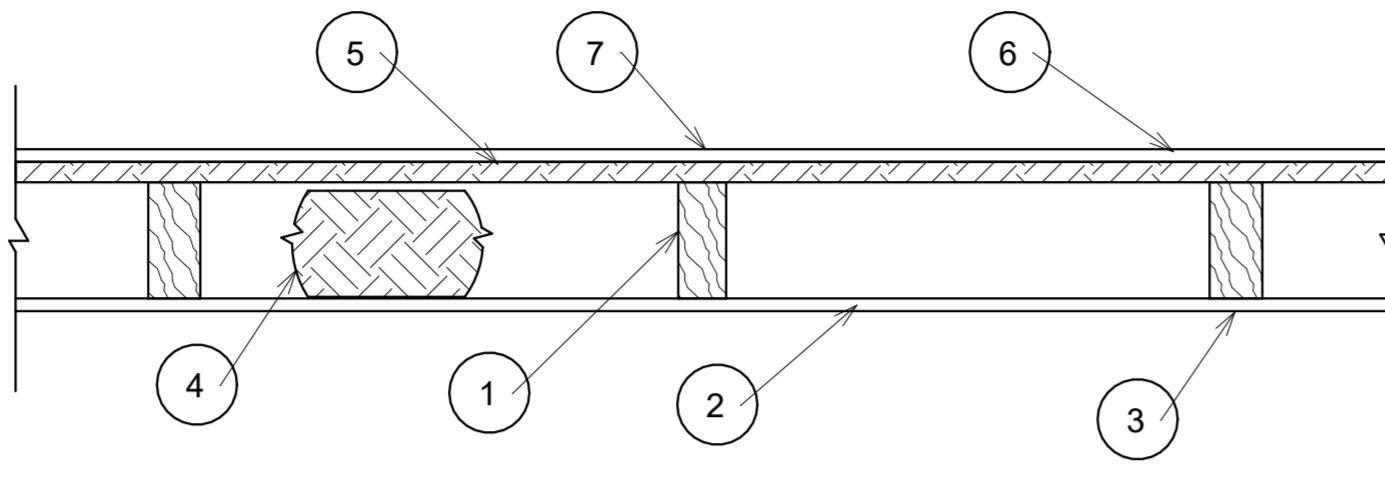


Method CS-WSP  
1/2" = 1'-0"

**Design No. U303**

Bearing Wall Rating - 1Hr

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or CUL Certification (such as Canada), respectively.



- Wood Studs** - Nom 2 by 4 in spaced 16 in. OC, effectively cross-braced.
- Gypsum Board\*** - 5/8 in. thick, with square or tapered edges, applied vertically or horizontally with vertical joints centered over studs. Horizontal joints use framing. Fastened to studs and plates with 1-7/8 in. long 6d cement coated nails spaced 7 in OC or with 1-7/8 in. long Type 5 screws spaced 8 in OC, or 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in OC, with last screw 1 in. from edge of board. 54 in. widths applied horizontally

**UNITED STATES GYPSUM CO**-Types AR, FRX-G, IP-ARIP-X1, IP-X2, IPC-AR, SCX, ULIX, ULK WRC or WR

3. **Joints** - When tapered edge gypsum board is used, joints covered with joint compound and paper tape. As an alternate, gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape. When square-edge gypsum board is used, treatment of joints is optional

4. **Batts and Blankets** - Min 3 in. thick mineral wool batts, friction fit between studs. THERMAFIBER INC-Type SAFB, SAFB FF

5. **Sheathing** - Min 15/32 in, thick, 4 ft wide, wood structural panels, min grade "sheathing" applied vertically, with vertical joints centered over studs. Attached to studs with 10d galy nails 6 in. OC at the perimeter and 12 in. OC in the field. Sheathing fully covered with a weather resistive barrier

6. **Cementitious Backer Units** - 1/2 or 5/8 in, thick, installed vertically or horizontally over the sheathing with vertical joints centered over studs. All joints offset min 12 in from underlying sheathing joints. Fastened to studs and plates with corrosion resistant 2-1/4 in. long chamfered, ribbed wafer head screws with a minimum head diameter of 400 inches or 2-1/4 in hot-dipped galvanized roofing nails spaced 8 in. OC.

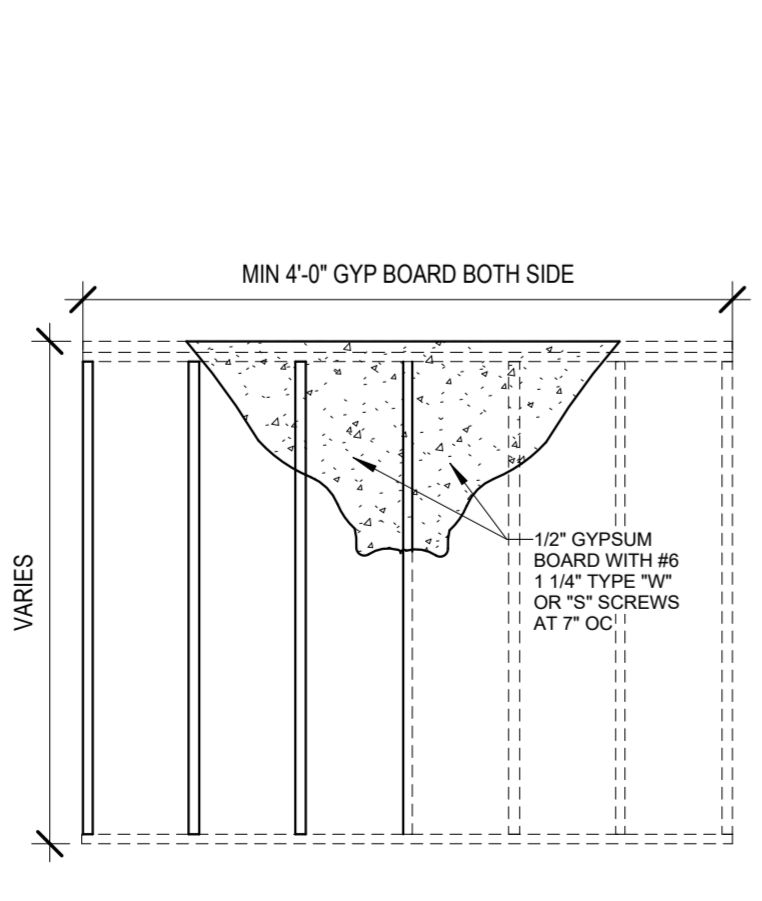
**UNITED STATES GYPSUM CO**-Type DCB.

7. **Joints** - Cement board joints need not be treated.

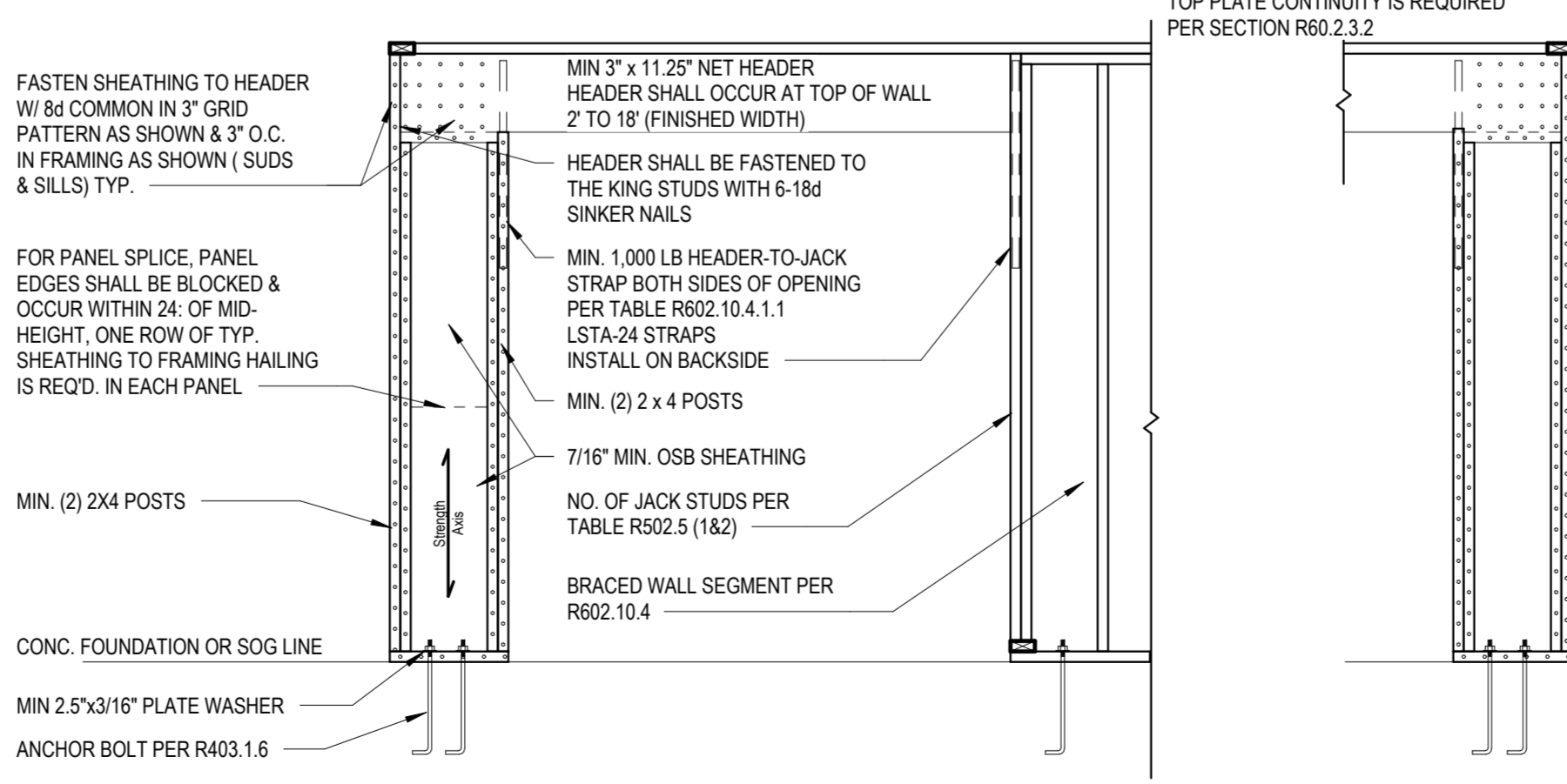
8. **Vapor Retarder, Water Barrier or Weather Resistive Barrier** - (Optional, not shown) -As required

\* Indicates such products shall bear the UL or CUL Certification Mark for jurisdictions employing the UL or CUL Certification (such as Canada), respectively.

UL #U303-1 HR WALL ASSEMBLY - EXTERIOR, LOAD BEARING

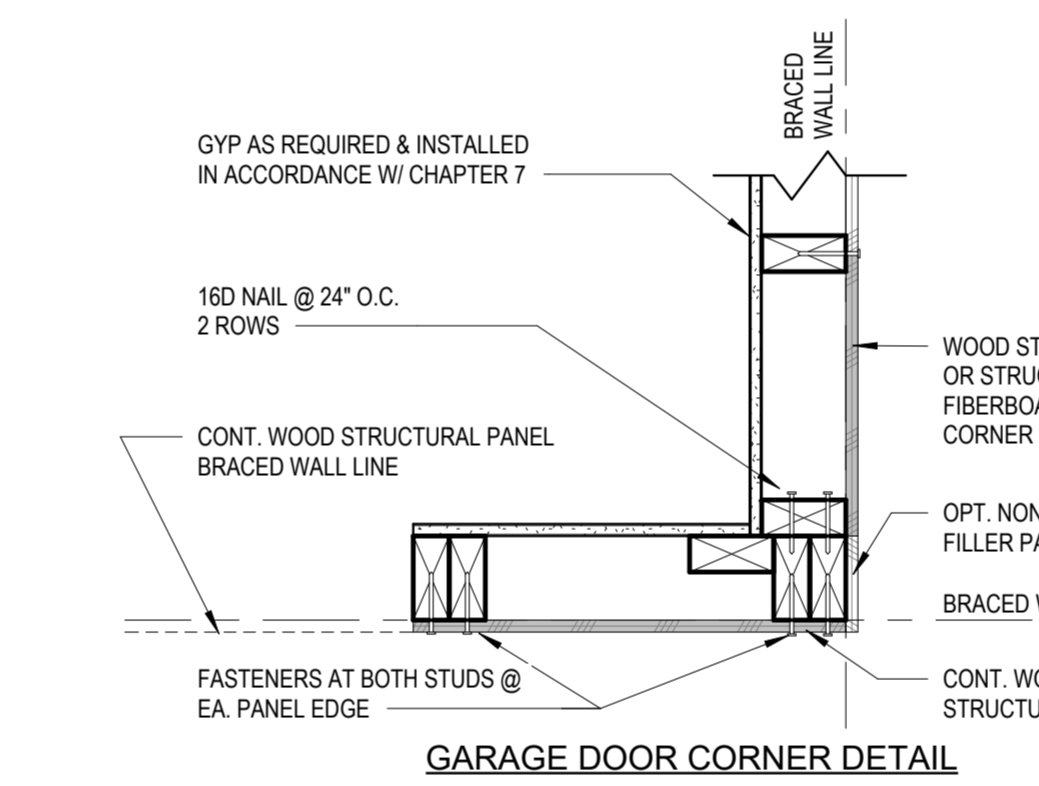
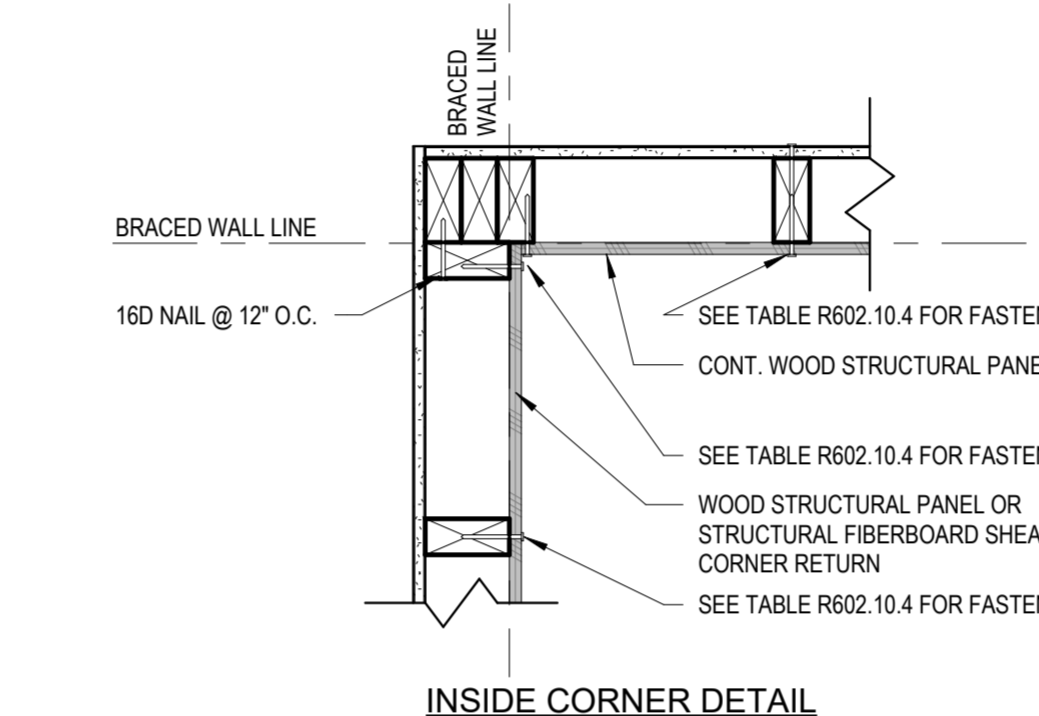
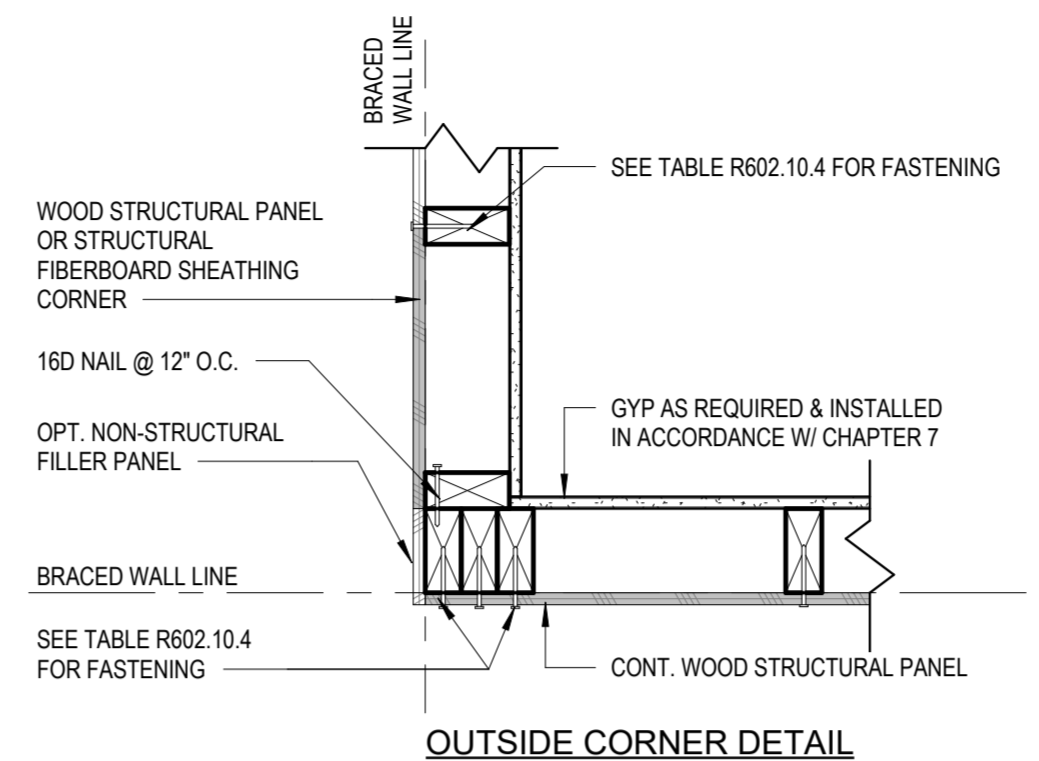


Method - GB  
1/2" = 1'-0"

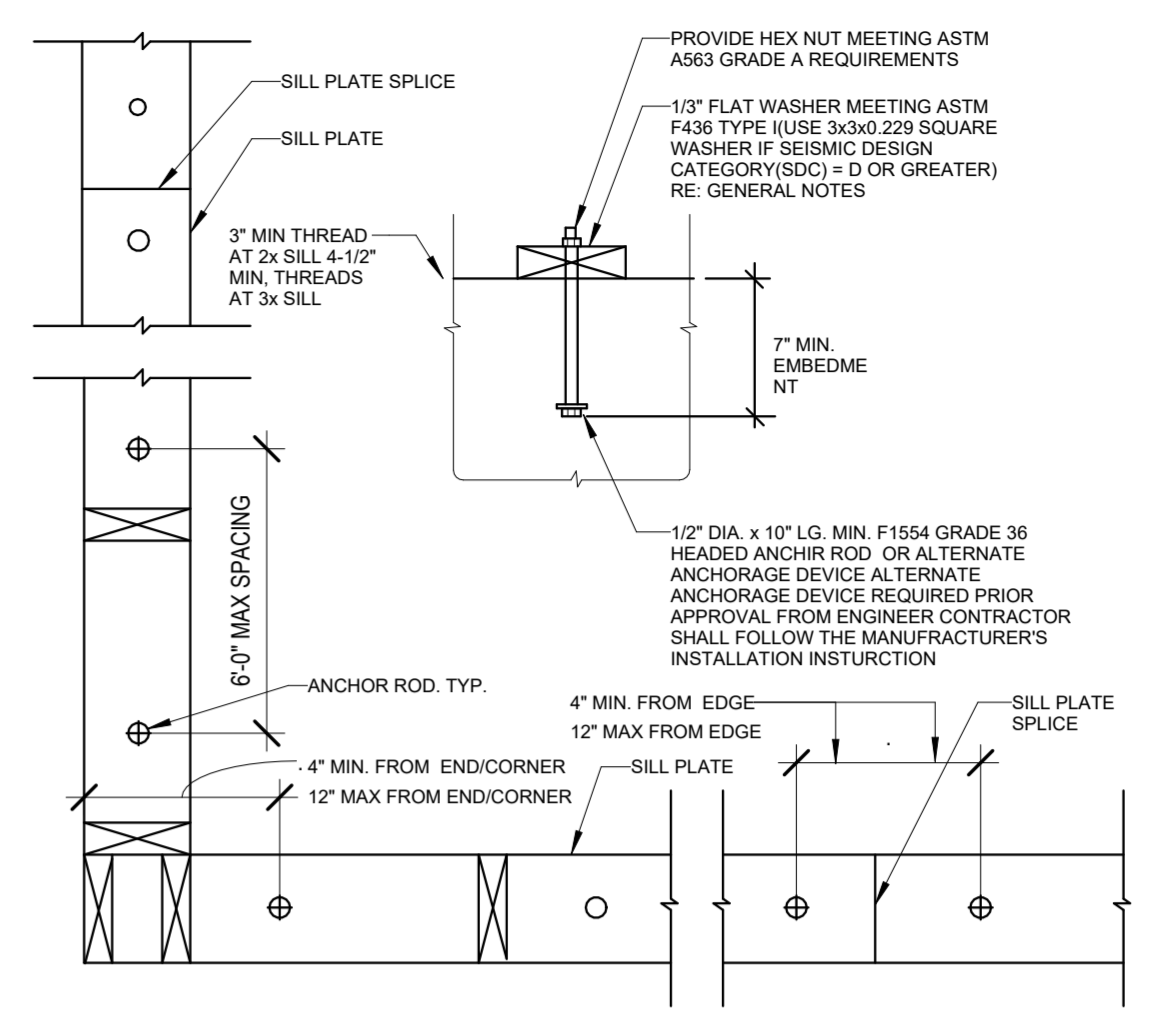


PORTAL FRAME METHOD CS-PF  
1/2" = 1'-0"

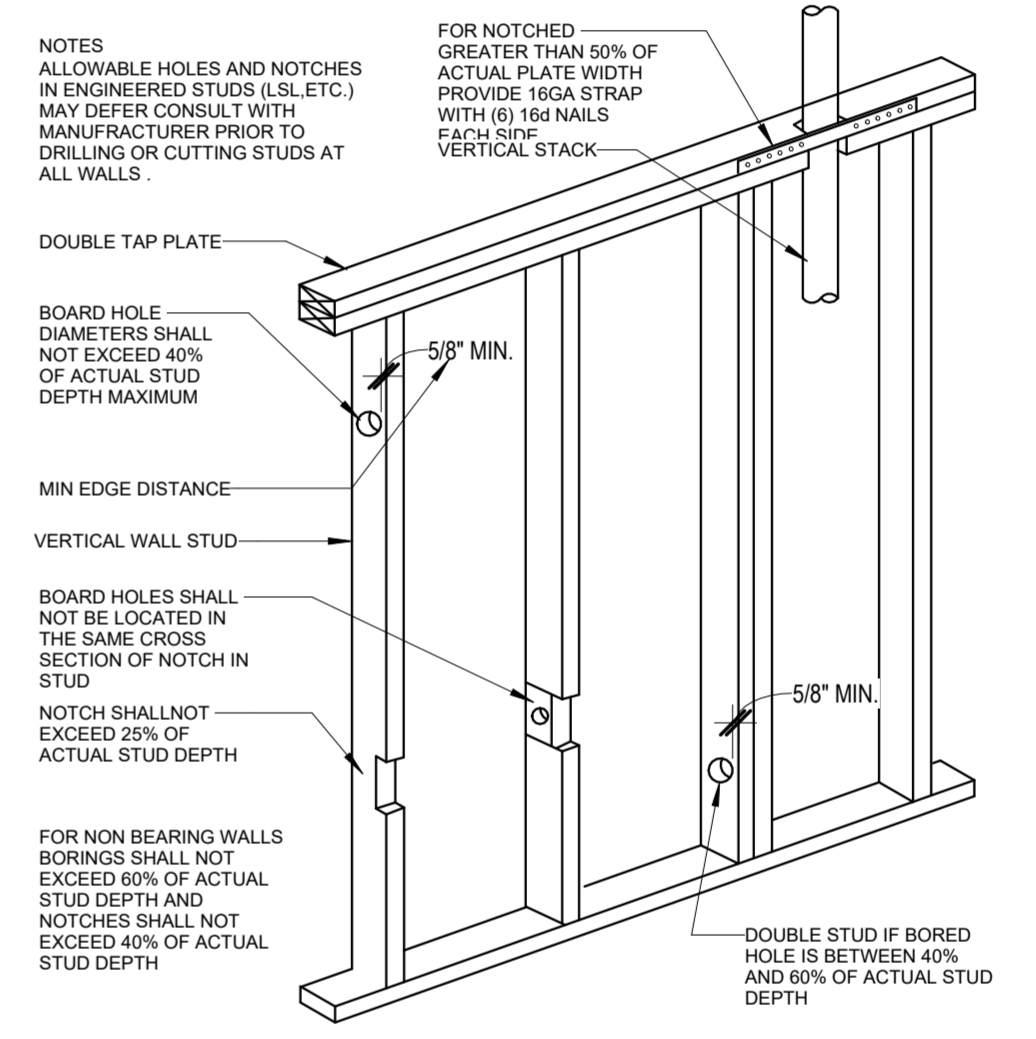
CS-WSP Corner Framing Details  
1 1/2" = 1'-0"



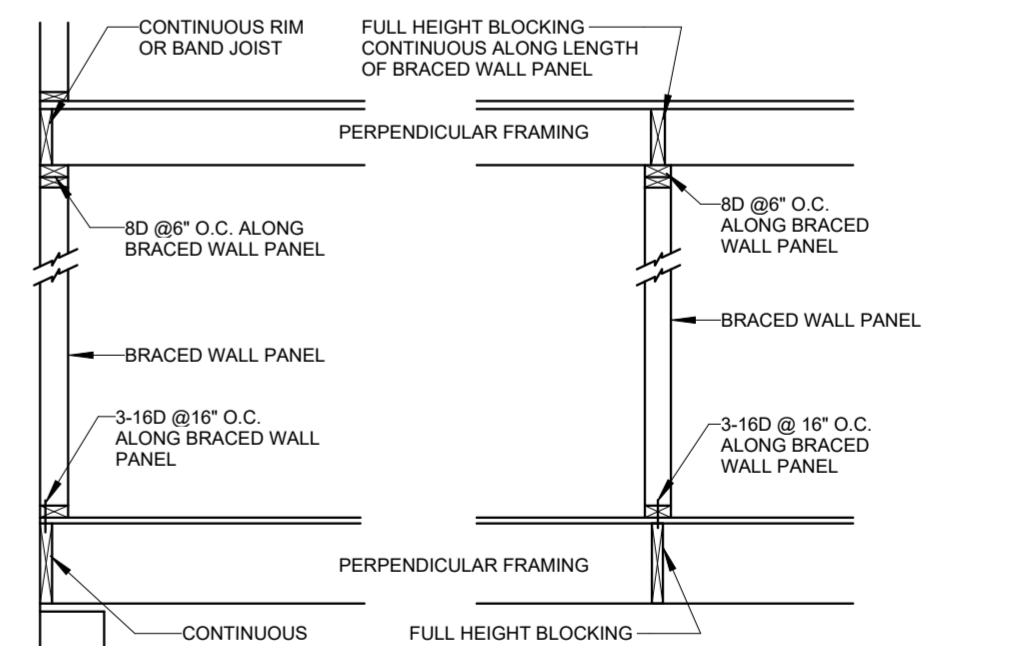
CS-WSP Corner Framing Details  
1 1/2" = 1'-0"



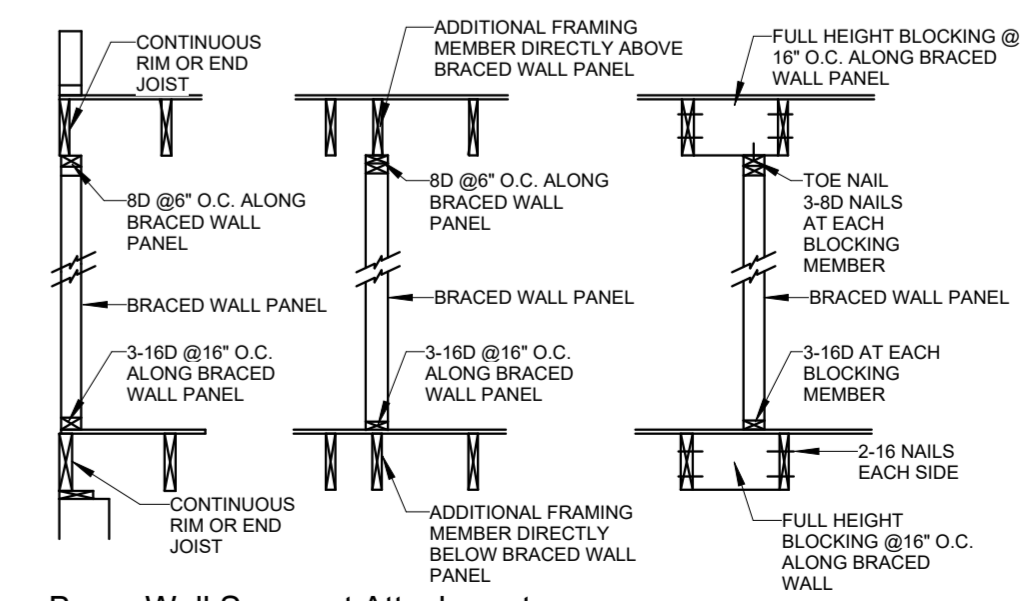
Sill Plate Layout/Details  
1" = 1'-0"



Notching Requirments  
1" = 1'-0"



Brace Wall Segment Attachment  
Ceiling/Floor  
1" = 1'-0"



Brace Wall Segment Attachment  
Ceiling/Floor  
1" = 1'-0"

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Original Issue Date: 10/1/2021

REVISIONS

Number	DESCRIPTION	DATE
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Details

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