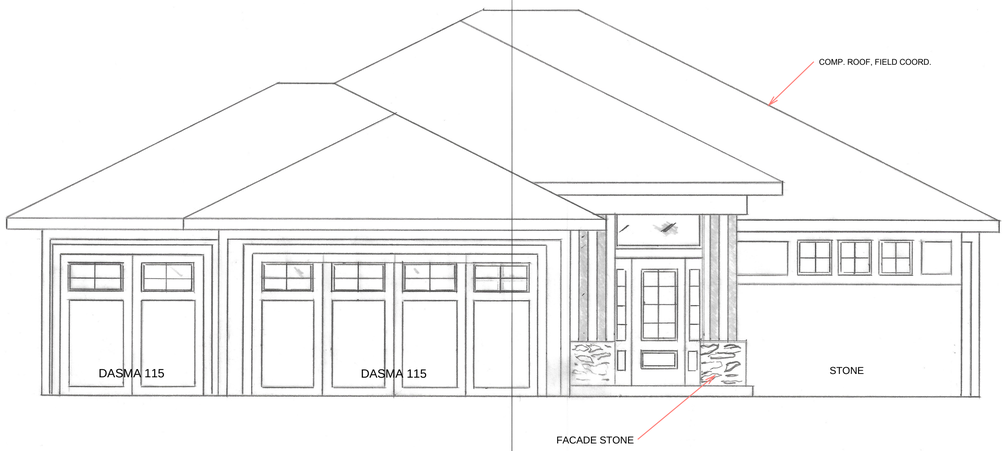

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Andrea Sessler

Digitally signed by Andrea Sessler
DN: CN=Andrea Sessler, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2025.02.21 17:09:25-06'00'

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/21/2025 5:08:26

MAIN LIVING AREA -1588'
LOWER LEVEL FINISHED AREA - 1288'
GARAGE - 620'
COVERED PORCH - 196'
UNFINISHED AREA 211'

STRUCTURAL MEMBER REVIEW AND CERTIFICATION:

STATE OF MISSOURI
AARON DEL OBERMILLER
NUMBER 2002015580
PROFESSIONAL ENGINEER
12-23-25

REU ENGINEERING, P.C.
CIVIL ENGINEERING CONSULTANTS
1805 WATERS ROAD, HARRISONVILLE, MISSOURI 64701
PH: (816) 380 - 5150 FAX: (816) 884 - 3250 EMAIL: MAIL@REUENGINEERING.COM
MO. CERTIFICATE OF AUTHORITY #2005002187

AARON D. OBERMILLER, P.E.
NO.2002015580 • AS 2012127

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018 INTERNATIONAL RESIDENTIAL CODE. ALL CONSTRUCTION, MATERIALS, FASTENING NOT SPECIFICALLY DENOTED SHALL COMPLY WITH THE REQUIREMENTS OF THE 2018 IRC AND THEREIN REFERENCED STANDARDS. ANY REQUIRED CLARIFICATIONS OR MODIFICATIONS TO STRUCTURAL ITEMS SHALL BE APPROVED BY THE ENGINEER OF RECORD OR OTHER LICENSED PROFESSIONAL CAPABLE OF CERTIFYING COMPLIANCE WITH THE MINIMUM STANDARDS OF THE APPLICABLE CODE. ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR DRAWING ERRORS AND OMISSIONS IN PLAN OR ELEVATION OF PROVIDED PLANS.

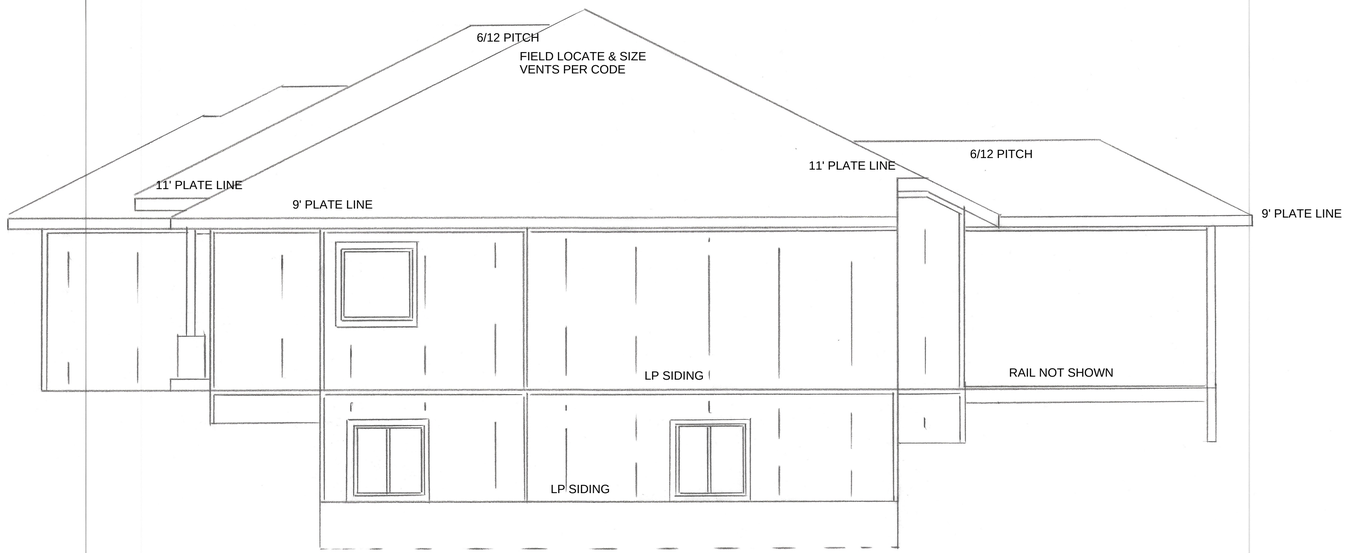
APALCE CALLED HOME

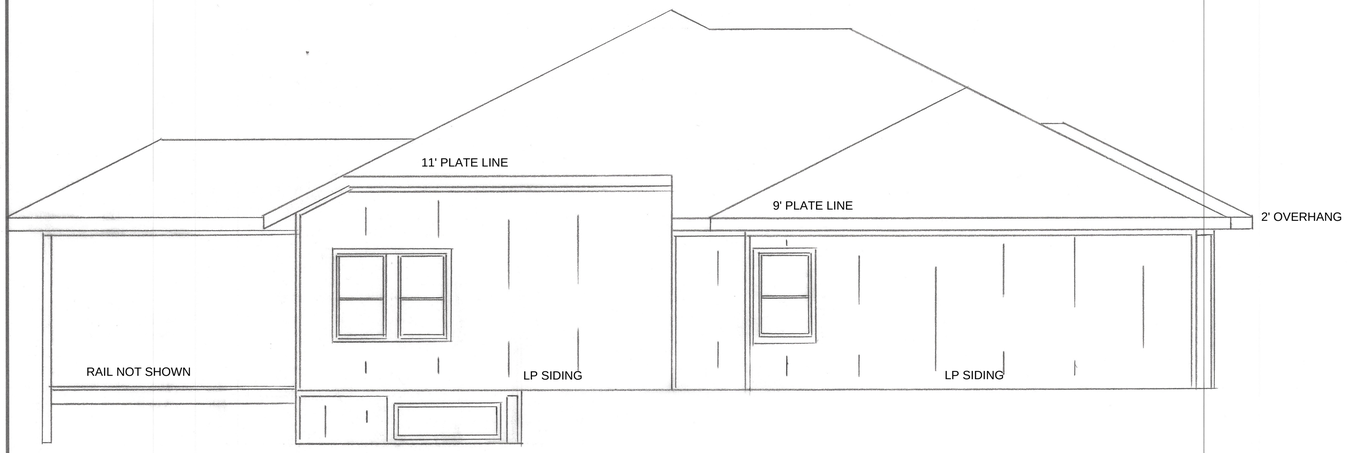
SCALE: 1/4"=1'	APPROVED BY:	DRAWN BY
DATE: 12-23-24		REVISED

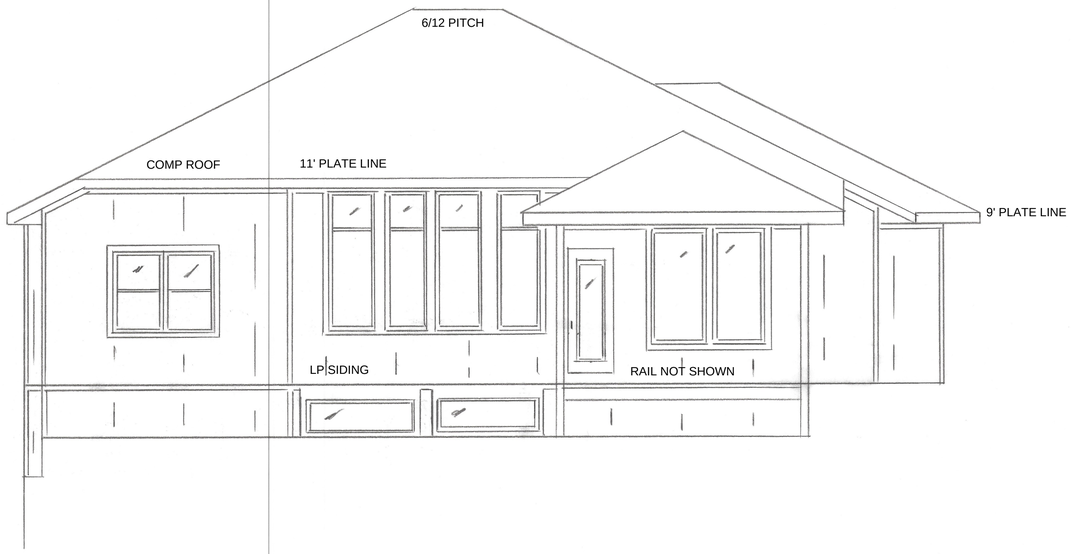
4331 NE HIDEAWAY DR.
LEE'S SUMMIT, MO LOT 368 PARK RIDGE

FRONT ELEVATION PG # 1-5

DRAWING NUMBER
2024-0153







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STATE OF MISSOURI
AARON DELMAR OBERHAUS
NUMBER 2009019580
PROFESSIONAL ENGINEER
1-24-23

APLACE CALLED HOME

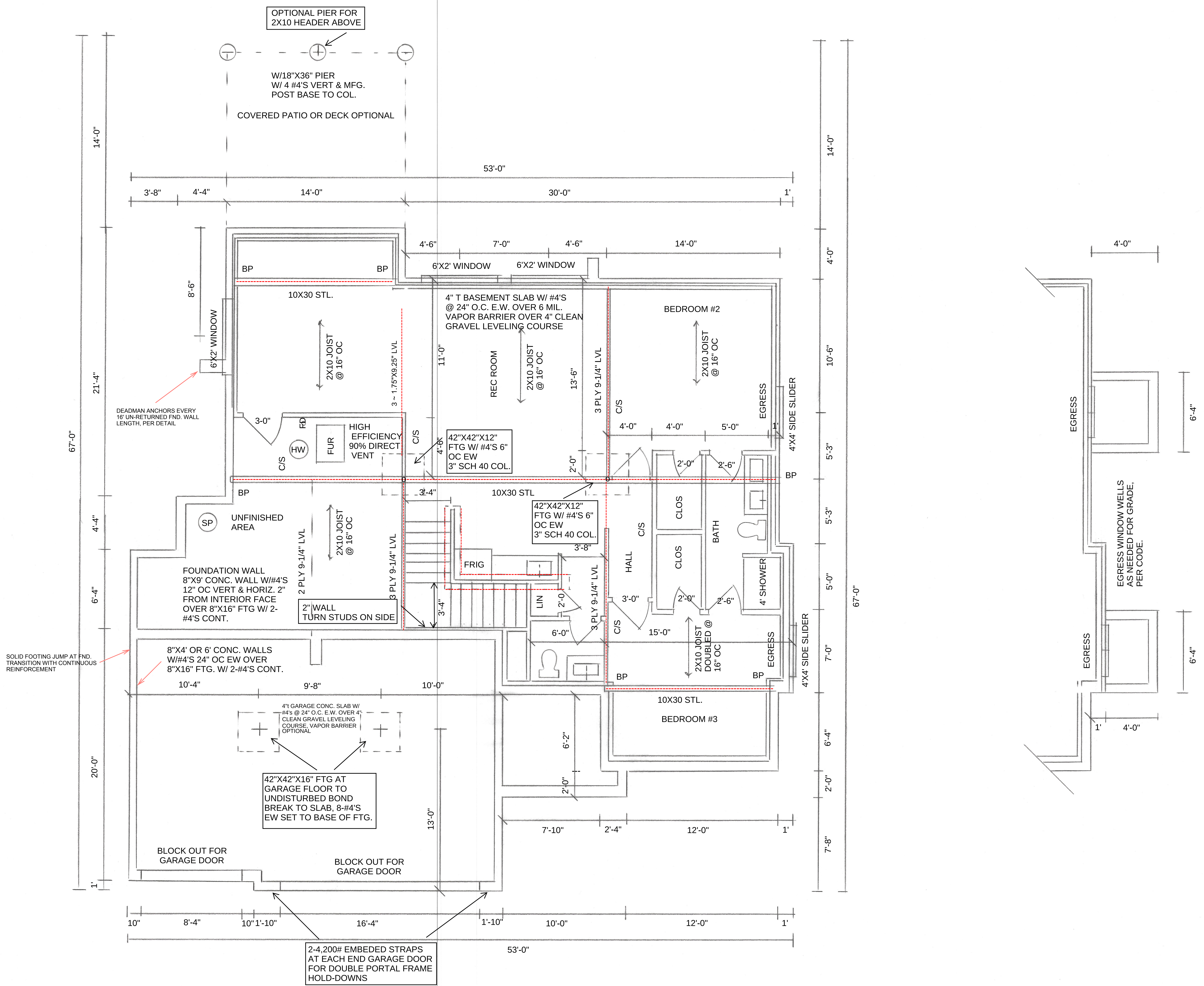
SCALE: 1/4"=1' 12-28	APPROVED BY:		DRAWN BY
DATE: 24			REVISED

4331 NE HIDEAWAY DR.
LEE'S SUMMIT, MO LOT 368

BACK & 2 SIDES ELEVATIONS PG # 2-5

DRAWING NUMBER
2024-0133

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/21/2025 5:08:26



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STATE OF MISSOURI
AARON DELBERT OBERMILLER
NUMBER
PROFESSIONAL ENGINEER

APLACE CALLED HOME

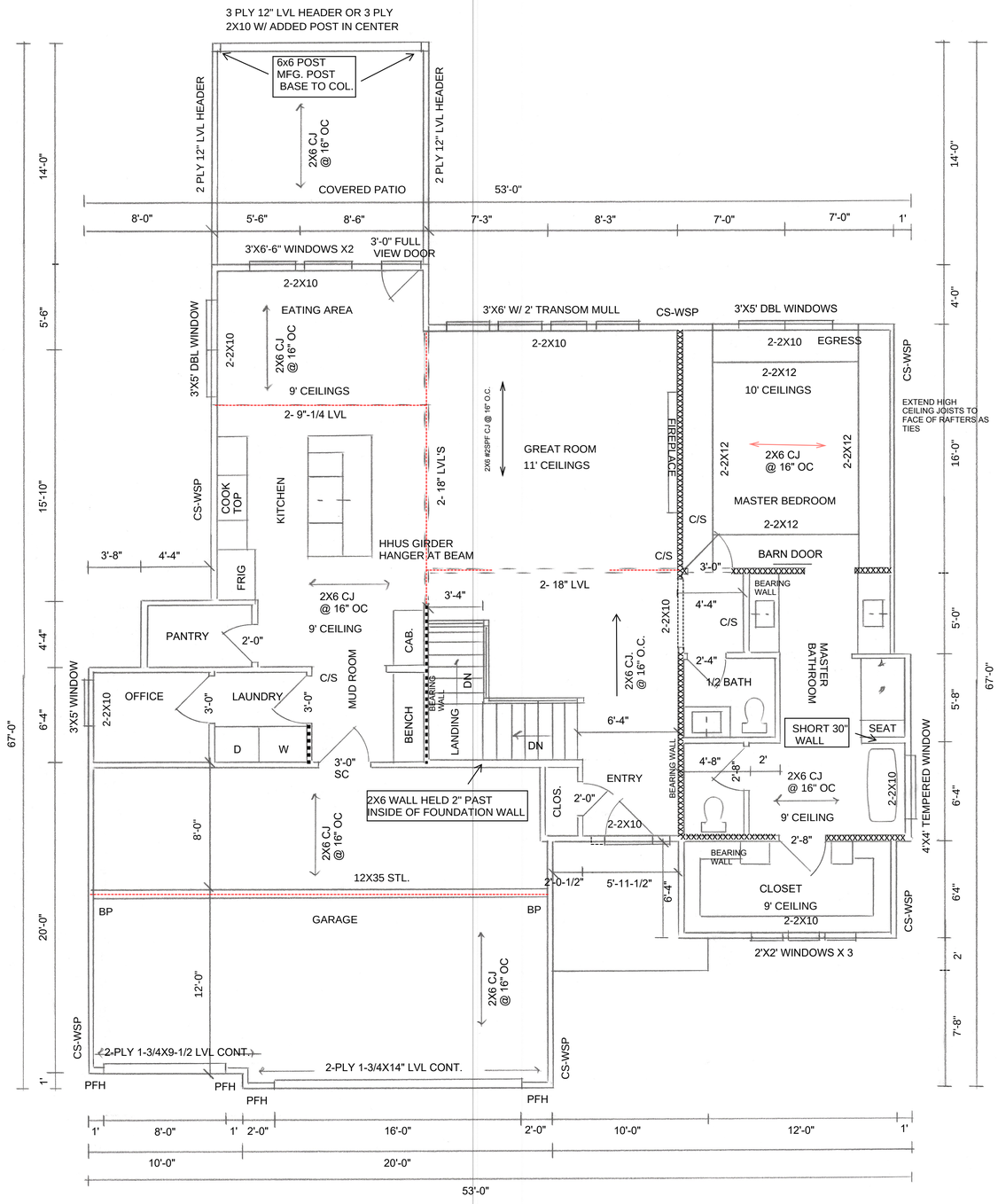
SCALE: 1/4"=1'	APPROVED BY:	DRAWN BY
DATE: 12-23-24		REVISED

4331 NE HIDEAWAY DR.
LEE'S SUMMIT, MO LOT 368

FOUNDATION PLAN PG# 3-5

DRAWING NUMBER
2024-0153

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/21/2025 5:08:26



BP- SOLID BEARING FOR BEAM SUPPORT

SYMBOL- LEGEND
INTERIOR LOAD BEARING WALLS- XXXXX
SMOKE & CARBON MONOXIDE ALARM C/S

BRACED WALL DESIGN:
THE CONTINUOUSLY SHEATHED (CS-WSP) BRACED WALL METHOD HAS BEEN USED ON ALL EXTERIOR WALLS PER THE I.R.C.
*7/16 APA-RATED PLYWOOD/ OSB WITH 8D NAILS @ 6' OC AT EDGES & @ 12" OC IN THE FIELD.
*7/16 SHIPLAP PANEL SHEATHING (IE LP SMARTSIDING OR EQUIVALANT) WITH 8D NAILS @ 6" OC AT EDGES & @ 12" OC FIELD
* 3/8 SHIPLAP PANEL SHEATING (IE LP SMARTSIDING OR EQUIVALENT) WITH 6D NAILS @ 4" OC AT EDGES & @ 12" OC IN THE FIELD

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STATE OF MISSOURI
AARON DELL OBERKROM
NUMBER A-2001030580
PROFESSIONAL ENGINEER
12-23-24

APLACE CALLED HOME

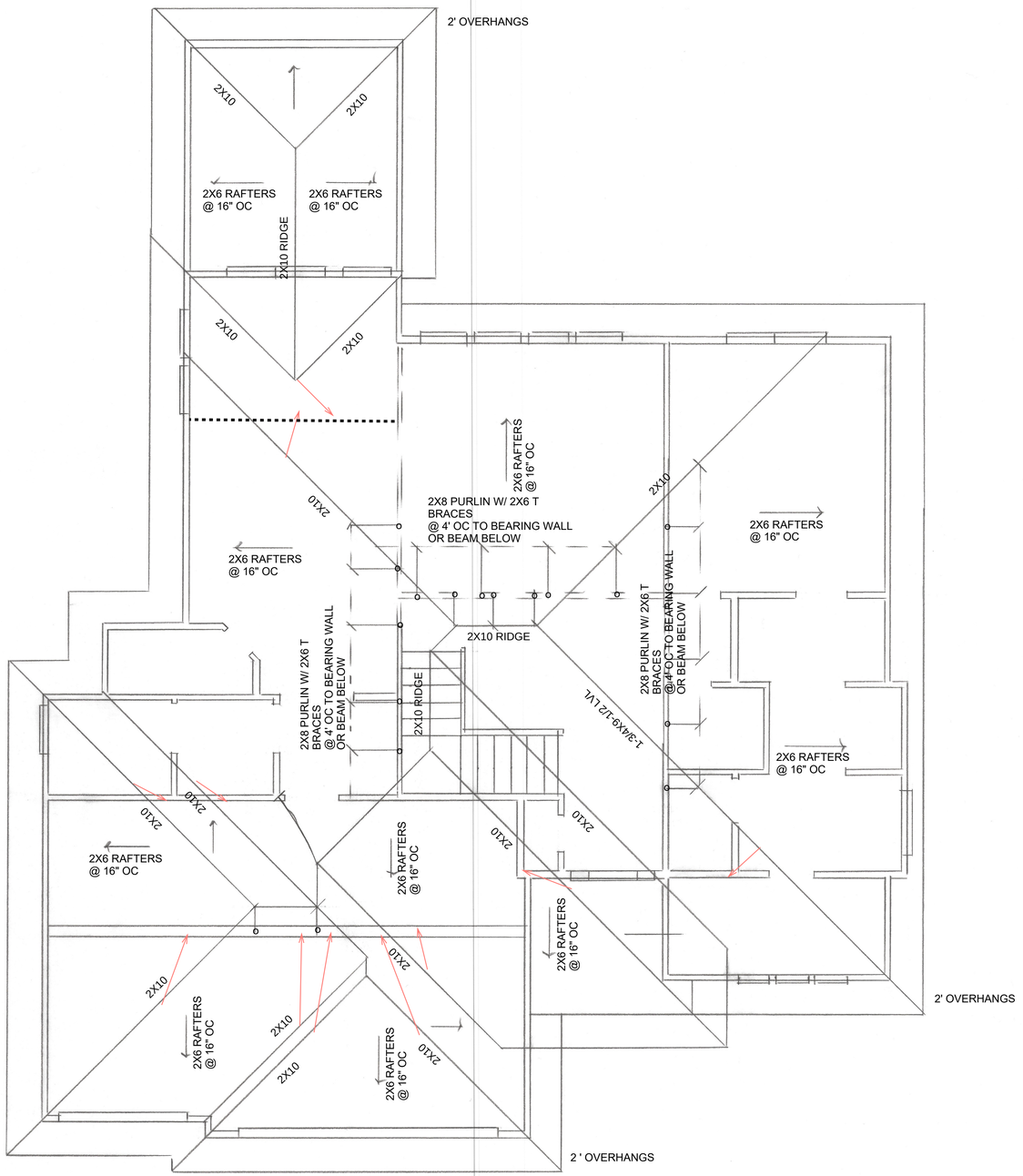
SCALE: 1/4"=1'	APPROVED BY:	DRAWN BY
DATE: 12-23-24		REVISED

4331 NE HIDEAWAY DR.
LEE'S SUMMIT, MO LOT 368

MAIN FLOOR PLAN PG# 4-5

DRAWING NUMBER
2024-015

RELEASED FOR CONSTRUCTION
AS NOTED ANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/21/2025 5:08:26



GENERAL ROOF NOTES:
- HIP RIDGE FOR ROOF:
  2X8 FOR UNBRACED LENGTH UP TO 8'-0"
  2X10 FOR UNBRACED LENGTH UP TO 9'-0"
  2X12 FOR UNBRACED LENGTH UP TO 10'-0"
- ALL RAFTERS 2X6 #2DF OR AS NOTED WITH AN UNBRACED HORIZONTAL SPAN NOT EXCEEDING 14 FEET.
- 2 ~ 2X6 PURLINS SUPPORTING RAFTERS SHALL BE PROVIDED WHERE NOTED BY DASHED LINE OR WHERE RAFTER SPAN EXCEEDS 12 FEET SPACING.
- PURLIN BRACES SHALL BE SPACED AT 48 INCHES ON CENTER AND CONSIST OF 2 ~ 2X4's FOR 10 FT. LENGTH (2X4 & 2X6 TEE FOR LENGTHS UP TO 14 FEET).
- ALL RIDGE MEMBERS TO BE LARGER THAN VERT. FACE-CUT OF RAFTER
-COLLAR TIES THROUGHOUT AT 48" O.C.
- ROOF LOADING: 20PSF LL / 10 PSF DL
- HEEL JOINT CONNECTIONS PER 802.3.1 OR 4 ~ 16d MIN.
- PER 802.11.1 ROOF ASSEMBLIES SHALL HAVE UPLIFT RESISTANCE IN ACCORDANCE WITH SECTION R802.11.1.1 AND R802.11.1.2. TIES, TIEDOWNS, ANCHORS OR SCREWS MANUFACTURED SPECIFICALLY TO RESIST UPLIFT, AS INDICATED IN THE MANUFACTURER'S LISTINGS, LITERATURE, OR SPECIFICATIONS, MINIMUM 48 INCHES ON CENTER, IS REQUIRED.

- PURLIN BRACE, STRUT

- PURLIN LOCATION

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STATE OF MISSOURI
AARON DELMAR OBERHAUSER
NUMBER
PROFESSIONAL ENGINEER
12-23-24

APLACE CALLED HOME

SCALE: 1/4"=1'	APPROVED BY:	DRAWN BY
DATE: 12-23-24		REVISED

4331 NE HIDEAWAY DR.
LEE'S SUMMIT, MO LOT 368

ROOF PLAN PG# 5-5

DRAWING NUMBER
2024.0312

RELEASED FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/21/2025 5:08:27

1 S1.1 FOUNDATION NOTES

SCALE: N.T.S.

FOUNDATION REQUIREMENTS:

CONCRETE
Concrete strength shall comply with the following minimum strength requirements at 28 days and shall be 6% (+/- 1.5%) entrained air for footings, walls or exterior flatwork and no air added (entrapped air) for interior flatwork; 2,500 psi for basement floor slabs on undisturbed grade. 3,000 psi for footings, foundation walls, structural floor slabs, 3,500 psi for carport and garage floor slabs on undisturbed grade. 3,500 psi for structural floor slabs or per engineered design, whichever is greater. Recommendation: Minimum allowable footing concrete cure time prior to wall placement is 24 hours.

REINFORCEMENT
Footing and pier reinforcement throughout project shall be minimum grade 40. All foundation wall reinforcement shall be minimum Grade 60.

FOOTINGS
Exterior walls, bearing walls, columns and piers shall be supported on continuous concrete footings, or other approved structural system to safely support the imposed loads and shall be 18 inches in width per Table 403.1.(1), 8" in depth or as noted otherwize in size and reinforced with 2 ~ #4's continuous. Footings under foundation walls shall be continuous around the structure and from one level to the next. The continuous transitions between footings at different levels enclosing usable space shall be made by approved solid jumps or support systems to provide safe support of the structure. Any jumps to be reinforced with at minimum, one #4 barx48" as near as possible to the corner.

FOOTINGS - MINIMUM DEPTH
The minimum frost footing depth shall be not less than 36" below grade. Footings for freestanding accessory structures with an area of 600 square feet or less and an eave height of 10 feet or less are permitted to extend below grade 12" and have a minimum width of 12".

DAMP PROOFING
One coat (minimum) of damp proofing or equivalent foundation membrane shall be applied to exterior wall surfaces below grade. Sealing tie holes, voids and honeycombed areas with sealant before damp proofing is recommended. Waterproofing in accordance with IRC section 406.2 will not be required unless a groundwater investigation indicates excessive hydrostatic Pressure, a high water table, or other severe soil-water conditions are known to exist and the foundation walls retain earth. Recommendation: The use of waterproofing in accordance with IRC section R406.2 combined with a minimum 4"perforated foundation drainage pipe.

FOUNDATION DRAINAGE
Installation of a continuous foundation drain consisting of a minimum 4 inch perforated pipe around the entire structure is required where habitable or usable space for any portion of the structure is located below grade. The top of the perforated pipe shall be at or below the area being protected. The pipe shall be placed with positive or neutral slope to minimize the accumulation of deposits in the drainage pipe, Placement of the drain tile on top of the footing is acceptable. Vertical drains shall be installed in window wells and connected directly to the perimeter foundation drain. Coarse, clean, rock shall extend 2 inches below and 6 inches above the perforated pipe, and extend 12 inches beyond the outside edge of the footing and covered with an approved filter membrane. The perforated pipe shall terminate to grade or be connected to a minimum 24 inch diameter or 20 inch square sump pit which shall extend a minimum 24 inches below the bottom of the basement floor per IRC section R405.2.3. The sump shall be capable of positive gravity or mechanical drainage to remove any accumulated water and discharge to daylight.

BACKFILL
Placing backfill prior to bracing or supporting the top of the foundation wall may cause foundation walls to become displaced or cracked. Backfilling any wall before seven days to allow the wall to gain sufficient strength to support the imposed loads is prohibited. Inspectors may require engineering certification and correction of any cracked or bowed wall conditions observed. Recommendation: Do not backfill an unsupported straight run of wall over 16 feet in length between corners and cross walls unless adequate bracing is provided or the floor framing has been set and nailed in place and anchor bolts tightened. To Improve foundation drainage, backfill with washed gravel or clean crushed rock at least one sieve size larger than drain pipe perforations, to a point not less than 2' below finished grade. Encase bottom, dirt side and top of backfill with approved filter membrane. Backfill high enough so there is a minimum 6" fall in the first 10' away from the house.

FOUNDATION ANCHORAGE
Where floor joist and/or blocking are connected to the sill to provide top of wall bracing anchor bolts shall be spaced not more than 3 feet on center. Walls with monolithic slabs may have anchor bolts spaced at 3 feet on center. Sill plates shall be bolted to the foundation with minimum 1/2-inch diameter anchor bolts embedded at least 7 inches into the concrete. A bolt shall be placed within 12 Inches, and not closer than 7 bolt diameters, of the end of each plate section. A properly sized nut and washer shall be tightened on each bolt to the plate. For walls over 9 feet use a minimum 2x6 plate and blockings shall be in line with anchor bolts. Design specific anchoring may be required by the designer for walls 9 feet tall or more. These anchoring devices may be required to be secured in place to the forms prior to concrete placement. Recommendation: It is recommended that a minimum 2x6 inch sill plate be used to ensure sufficient strength is provided to transfer loads from the anchor bolts to the floor system.

TOP OF WALL RESTRAINT
Where joists run perpendicular to foundation walls, they shall be fastened to plates with three 8d toenails. Where joists run parallel to full height foundation walls, solid blocking for a minimum of three joist spaces shall be provided at a maximum of 3 feet centers to transfer lateral loads on the wall to the floor diaphragm. The blocking shall be securely nailed to the joists and flooring. If ducts are installed in a joist space(s), nail 2 x 4's flat 3 foot o.c. within the joist space(s) and then provide the solid blocking as noted below in a total of 3 joist spaces. Secure each 2x4 to the sill plate with 3-8d nails.

2 S1.1 GENERAL NOTES

SCALE: N.T.S.

GENERAL NOTES - CONSTRUCTION SHALL COMPLY WITH 2018 IRC; LOADING - 20PSF LL, 115MPH, Vult; ALL ADOPTED NATIONAL ELECTRIC, MECHANICAL, PLUMBING CODES SHALL BE MET;

WINDOW GLAZING
GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE APPROVED SAFTY GLAZING MATERIALS: GLASS IN STORM DOORS, INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR; WALLS ENCLOSED STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR; ENCLOSURES FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS; GLAZING IN FIXED OR OPENABLE PANELS EXCEEDING 9 SQ. FT. AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITH IN 36"

EMERGENCY EGRESS
PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MIN. OPENING AREA OF 5.7 SR. FT. WITH A MIN. OPENING HEIGHT OF 24" AND WIDTH OD 21"

INSULATION VALUES:
CONSTRUCTION TO COMPLY WITH THE 2018 ENERGY CONSERVATION CODE, 2018 IRC. TABLE R1102.1.1 MIN. INSULATION SHALL BE PROVIDED ADJACENT TO HABITABLE AREAS AS FOLLOWS:

EXTERIOR FRAMED WALLS	R-13
FLOOR OVER HEATED SPACE	R-19
FLOOR OVER OUTSIDE AIR (UNCONDITIONED)	R-19
ATTIC - BLOWN IN	R-49
CATHEDRAL CEILING	R-38
DUCT WORK	R-8
BASEMENT WALLS (CAVITY)	R-13
BASEMENT WALLS (CONTINUOUS)	R-10
SLABS (FOR A MIN. DEPTH OF 2')	R-10
WINDOW U-FACTOR	0.35 OR BETTER

GARAGE:
THE GARAGE FLOOR SHALL BE SLOPED TOWARD GARAGE DOORS DOORS BETWEEN GARAGE AND DWELLING - MIN 1 3/4" SOLID CORE OR HONEY COMBED STEEL DOOR OR 20 MIN. RATED; SELF-CLOSING GARAGE TO HAVE 5/8" TYPE X GYPSUM THROUGHTOUT THE H-FRAME SHALL CONSIST OF 2X6 FRAMING

FRAMING
- ALL LUMBER SIZES ARE FOR #2 DF OR AS SPECIFIED IN PLAN/DETAILS.
- ALL WOOD FRAMING MEMBERS IN CONTACT WITH CONCRETE SHALL BE TREATED TO PREVENT DECAY
- ALL HEADERS TO BE MIN. (2) #2-2X10 OR AS NOTED IN PLAN, BLOCK CANTILEVERS, DOOR JAMBS, AND OVER BEAMS.
- ALL HEADERS TO BEAR ON MIN. OF (2) 2X4 STUDS FOR 6' AND GREATER OPENINGS
JOIST UNDER BEARING PARTITIONS SHALL BE DOUBLED AND COMPLY WITH IRC SEC. R502.4 WATER-RESISTIVE BARRIER SHALL BE PROVIDED OVER ALL EXTERIOR WALL PER IRC SEC. R703
- WHERE CEILING JOIST ARE NOT INSTALLED CONNECTED TO THE RAFTERS AT THE TOP PLATE AND/OR WHERE CEILING JOIST ARE NOT INSTALLED IN THE LOWER 1/3 OF ATTIC SPACE, RAFTER TIES SHALL BE INSTALLED IN THE LOWER 1/3 OF ATTIC SPACE
COLLAR TIES SHALL BE PROVIDED IN THE ATTIC SPACE IN UPPER 1/3 OF ATTIC
- ROOF IS DESIGNED FOR 20 P.S.F. ROOF SNOW LOAD (MIN.)
- MIN 20 YR. ASPHALT SHINGLES
- RAFTER TIES SHALL NOT BE REQUIRED WHEN A STRUCTURAL RIDGE HAS BEEN PROVIDED AND ADEQUATELY DESIGNED (AS IN A FULLY VAULTED ROOM) SUCH SHALL BE NOTED AS "STRUCTURAL" ON THE PLAN, PER IRC SEC. 802.3
- SHEATHING SHALL BE ATTACHED PER IRC TABLE, WOOD STRUCTURAL PANELS FOR BRACED WALL REQUIREMENTS SHALL BE APA RATED AND ATTACHED WITH 8d COMMON NAILS 6" O.C. PERIMETER, 12" FIELD
- GYPSUM BOARD PANELS IN BRACED WALL METHOD GB (R602.10.2 2018 IRC) : MIN. 1/2" GYPSUM BOARD WITH NO. 6 1-1/4" TYPE W OR S SCREWS @ 7" O.C. EDGES AND WALL (4'-0" LONG, BOTH FACES OF WALL

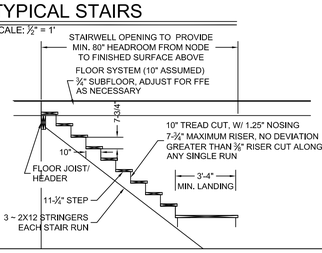
GUARDS
R312.2 GUARD OPENING LIMITATIONS. REQUIRED GUARDS ON OPEN SIDES OF STAIRWAYS, RAISED FLOOR AREAS, BALCONIES, AND PORCHES SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL CLOSURES THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" OR MORE IN DIAMETER.

DETECTORS
SECTION R315 CARBON MONOXIDE ALARMS
R315.1 CARBON MONOXIDE ALARMS. FOR NEW CONSTRUCTION, AN APPROVED CARBON MONOXIDE ALARM SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS IN DWELLING UNITS WITHIN WHICH FUEL-FIRED APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES.
R315.2 CARBON MONOXIDE DETECTION SYSTEMS. CARBON MONOXIDE DETECTION SYSTEMS THAT INCLUDE CARBON MONOXIDE DETECTORS AND AUDIBLE NOTIFICATION APPLIANCES, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THIS SECTION FOR CARBON MONOXIDE ALARMS AND NFPA 720, SHALL BE PERMITTED. THE CARBON MONOXIDE DETECTORS SHALL BE LISTED AS COMPLYING WITH UL 2075, WHERE A HOUSEHOLD CARBON MONOXIDE DETECTION SYSTEM IS INSTALLED, IT SHALL BECOME A PERMANENT FIXTURE OF THE OCCUPANCY, OWNED BY THE HOMEOWNER AND SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION.
R314 PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING ROOM AND ON EACH FLOOR, INCLUDING BASEMENT. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING. (SECTION R314.5)

FROST OR 48" FOUNDATION WALL:
FROST DEPTH FOUNDATION WALLS TO HAVE 2 ~ #4's CONTINUOUS HORIZONTAL, 3" COVER TO TOP, 3" COVER TO BASE OF WALL (TOP OF FOOTING); VERTICAL REINFORCEMENT #4's @ 36" O.C. BASE OF FOOTING TO BE 36" BELOW ADJACENT GRADE, CURB WALL ABOVE GRADE (TO PORCH SLAB OR GARAGE WALL) AS NECESSARY IN FIELD

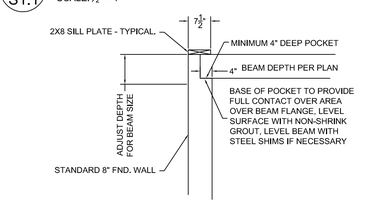
3 S1.1 TYPICAL STAIRS

SCALE: ½" = 1'



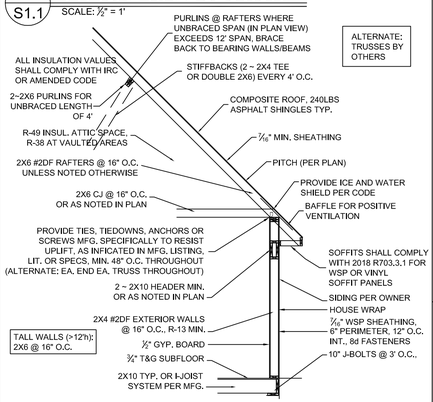
4 S1.1 TYPICAL BEAM POCKET

SCALE: ½" = 1'



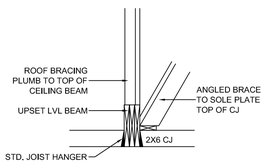
5 S1.1 TYPICAL WALL SECTION

SCALE: ½" = 1'



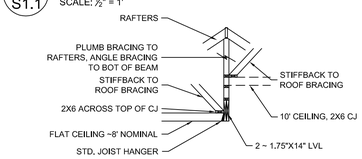
6 S1.1 BRACING AT UPSET LVL

SCALE: ½" = 1'



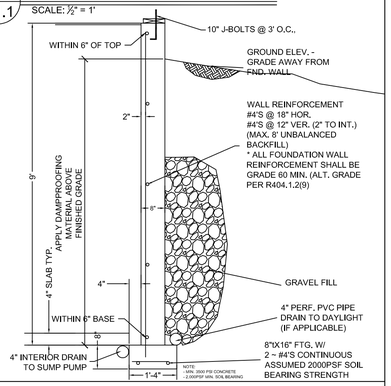
7 S1.1 BRACING AT UPSET LVL (OFFSET CEIL)

SCALE: ½" = 1'



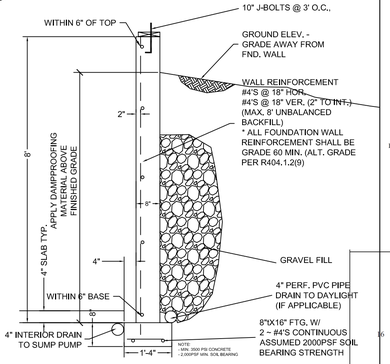
8 S1.1 8"X9' FOUNDATION WALL

SCALE: ½" = 1'



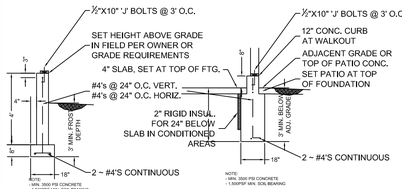
9 S1.1 8"X8' FOUNDATION WALL

SCALE: ½" = 1'



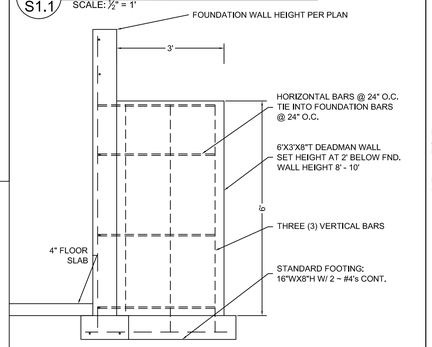
10 S1.1 8"X48" STEM WALL / ALT TRENCH FTG.

SCALE: ½" = 1'



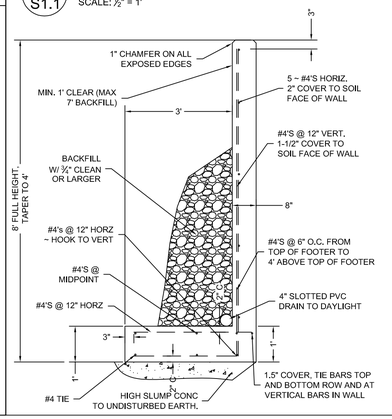
11 S1.1 DEADMAN ANCHOR

SCALE: ½" = 1'



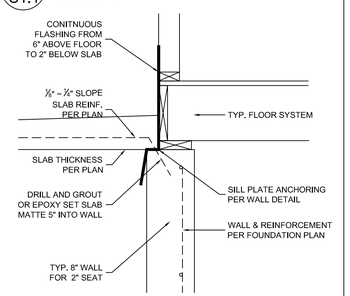
12 S1.1 RETAINING WALL

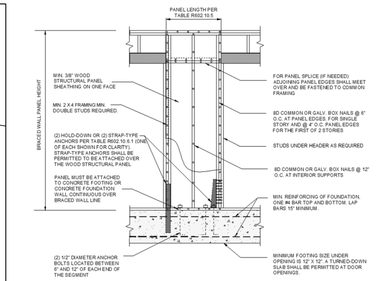
SCALE: ½" = 1'



13 S1.1 PORCH SLAB

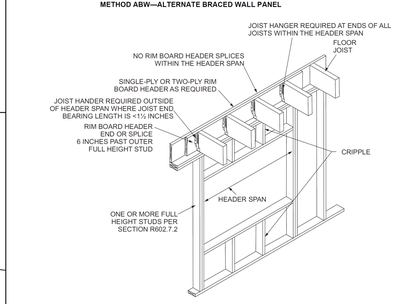
SCALE: 1" = 1'





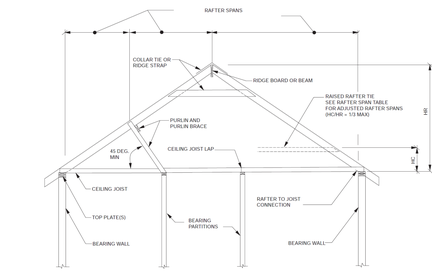
1.4 mm.

FIGURE R602.10.6.1
METHOD ABW—ALTERNATE BRACED WALL PANEL



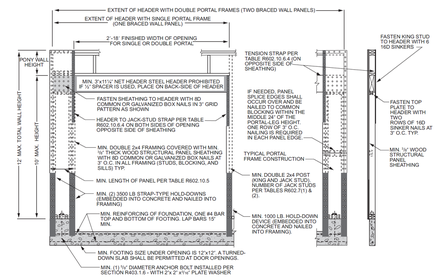
For SI: 25.4 mm = 1 inch.

FIGURE R602.7.2
RIM BOARD HEADER CONSTRUCTION



For SI: 1 inch = 25.4 mm, 1 foot = 305 mm, 1 degree = 0.018 rad.
H_c = Height of ceiling joists or rafter ties measured vertically above the top of rafter support walls.
H_r = Height of roof ridge measured vertically above the top of the rafter support walls.

FIGURE R802.4.5
BRACED RAFTER CONSTRUCTION



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.2
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

TABLE R802.5.1(1)—continued
CEILING JOIST SPANS FOR COMMON LUMBER SPECIES
(Uninhabitable attics without storage, live load = 10 psf, L/Δ = 240)

Douglas fir-larch	SS	11-11	18-9	24-8		Note a
Douglas fir-larch	#1	11-6	18-1	23-10		Note a
Douglas fir-larch	#2	11-3	17-8	23-4		Note a
Douglas fir-larch	#3	9-7	14-1	17-10		21-9
Hem-fir	SS	11-3	17-8	23-4		Note a
Hem-fir	#1	11-0	17-4	22-10		Note a
Hem-fir	#2	10-6	16-6	21-9		Note a
Hem-fir	#3	9-5	13-9	17-5		21-3
Southern pine	SS	11-9	18-5	24-3		Note a
Southern pine	#1	11-3	17-8	23-10		Note a
Southern pine	#2	10-9	16-11	21-7		25-7
Southern pine	#3	8-9	12-11	16-3		19-9
Spruce-pine-fir	SS	11-0	17-4	22-10		Note a
Spruce-pine-fir	#1	10-9	16-11	22-4		Note a
Spruce-pine-fir	#2	10-9	16-11	22-4		Note a
Spruce-pine-fir	#3	9-5	13-9	17-5		21-3

TABLE R802.4.1(1)
RAFTER SPANS FOR COMMON LUMBER SPECIES
(Roof live load = 20 psf, ceiling not attached to rafters, L/Δ = 180)

16	Douglas fir-larch	SS	10-5	16-4	21-7	Note b	Note b	10-5	16-3	20-7	25-2	Note b
	Douglas fir-larch	#1	10-0	15-4	19-5	23-9	Note b	9-1	13-3	16-10	20-7	23-10
	Douglas fir-larch	#2	9-10	14-7	18-5	22-6	26-0	8-7	12-7	16-0	19-6	22-7
	Douglas fir-larch	#3	7-7	11-1	14-1	17-2	19-11	6-7	9-8	12-12	14-11	17-3
	Hem-fir	SS	9-10	15-6	20-5	Note b	Note b	9-10	15-6	19-11	24-4	Note b
	Hem-fir	#1	9-8	15-2	19-2	23-5	Note b	9-0	13-1	16-7	20-4	23-7
	Hem-fir	#2	9-2	14-2	17-11	21-11	25-5	8-5	12-3	15-6	18-11	22-0
	Hem-fir	#3	7-5	10-10	13-9	16-9	19-6	6-5	9-5	11-11	14-6	16-10
	Southern pine	SS	10-3	16-1	21-2	Note b	Note b	10-3	16-1	21-2	25-7	Note b
	Southern pine	#1	9-10	15-6	19-10	23-2	Note b	9-1	13-7	17-2	20-1	23-10
	Southern pine	#2	9-0	13-6	17-1	20-3	23-10	7-9	11-8	14-9	17-6	20-8
	Southern pine	#3	6-11	10-2	12-10	15-7	18-6	6-0	8-10	11-2	13-6	16-0
	Spruce-pine-fir	SS	9-8	15-2	19-11	25-5	Note b	9-8	14-10	18-10	23-0	Note b
	Spruce-pine-fir	#1	9-5	14-4	18-2	22-3	25-9	8-6	12-5	15-9	19-3	22-4
	Spruce-pine-fir	#2	9-5	14-4	18-2	22-3	25-9	8-6	12-5	15-9	19-3	22-4
	Spruce-pine-fir	#3	7-5	10-10	13-9	16-9	19-6	6-5	9-5	11-11	14-6	16-10

SCALES
PLAN SCALE NOTED
PROFILE HORIZ. SCALE
VERTICAL SCALE

BENCHMARK

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CIVIL ENGINEERING CONSULTANTS
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(816) 380 - 5160 PH (816) 884 - 3250 FAX MAIL@REDENGINEERING.COM

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01-24-25
PROFESSIONAL ENGINEER

AARON D. OBERMILLER, P.E.
MO-2008019580
KS-25237

PROJECT NUMBER
25-009-01

DATE
01-24-25

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S1.1

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