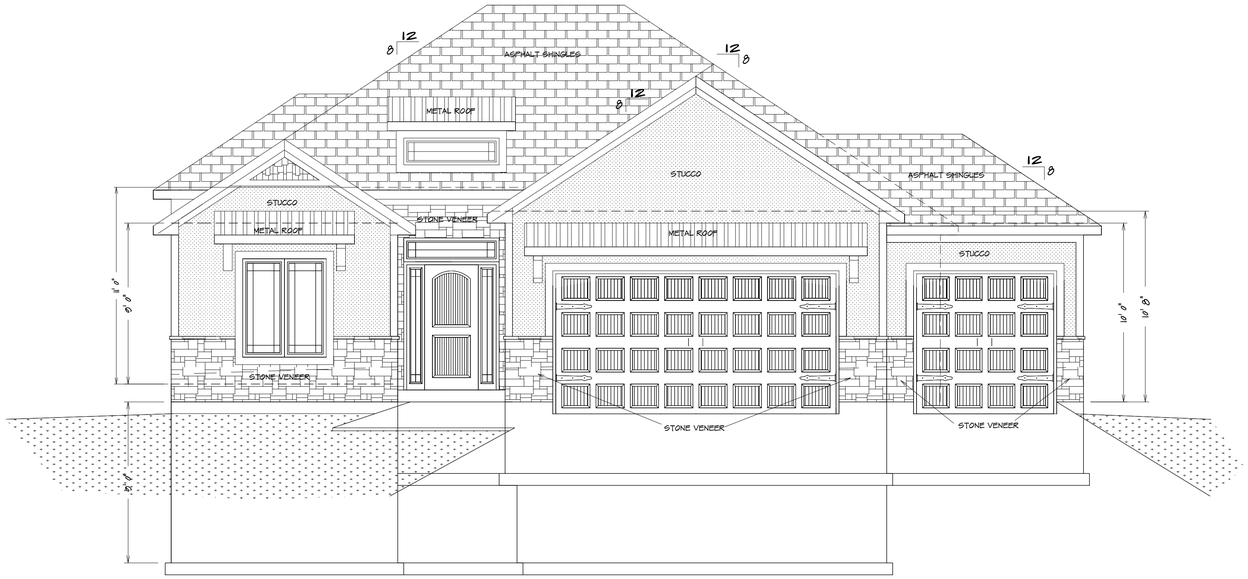
KH CONSTRUCTION

KEVIN HIGDON CONSTRUCTION

MD² DESIGNS
Quality By Design




## FRONT ELEVATION

1/4" = 1'0"

BUILDER/CONTRACTOR IS RESPONSIBLE TO CHECK ALL DIMENSIONS FOR ACCURACY BETWEEN FLOORS, FOUNDATION, AND ELEVATIONS. ALSO VERIFY ALL BEAM, HEADERS, PAD LOCATIONS, AND COLUMN SIZES.

Digitally signed by Kim Brennan
Reason: Release for Construction
Date: 2022.01.06 16:56:27-06'00'

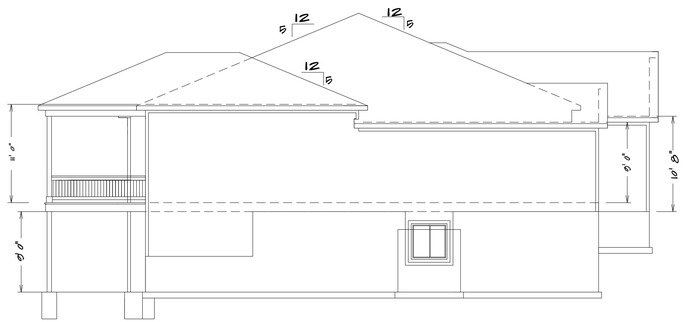
ALL NOTES, SECTIONS, AND DRAWINGS ARE IN ACCORDANCE WITH THE 2018 IRC

NOTE:
ACTUAL ELEVATIONS MAY VARY FROM ARCHITECTURAL DRAWINGS, DUE TO TERRAIN/BACKFILL PROGRESS.
FRONT ELEVATION IS ARCHITECTURAL DRAWING AND MAY VARY DUE TO MATERIALS AVAILABILITY

LOT 134 NAPA
1523 SW BLACKSTONE
LEES SUMMIT MO.

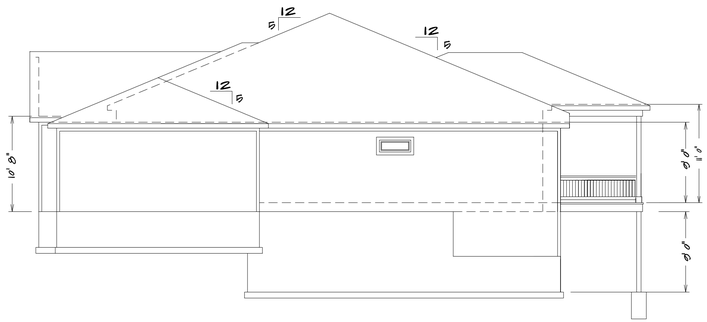
| | | | |
|---|---|---|---|
| SHEET NO. 1 | | | APPROX. SQ.FT. |
| PLAN NO. KH-6107 | | FILE NAME: 6107 FRNT | |
| DATE DRAWN: | DATE REVISED: | DESIGNER: | |
| PHONE: | PHONE: | LOT NO. | |
| HOME BUYER: | | | |
| BUILDER: | | | |
| SUB-DIVISION: | | | |

BUILDER&CONTRACTOR IS RESPONSIBLE TO CHECK ALL DIMENSIONS FOR ACCURACY BETWEEN FLOORS, FOUNDATION, AND ELEVATIONS. ALSO VERIFY ALL BEAM, HEADERS, PAD LOCATIONS, AND COLUMN SIZES. BUILDER&CONTRACTOR TO CHECK FOR COMPLIANCE WITH CONTRACTS, CITY, AND NATIONAL CODES. BUILDER&CONTRACTOR ACCEPTS ALL RESPONSIBILITY FOR LOT PLACEMENT, SET-BACKS, AND FLOOD PLAINS. BUILDER&CONTRACTOR AND HOME OWNER ACCEPTS RESPONSIBILITY FOR ANY AND ALL CHANGES, ADDITIONS OR REFERENCES TO OTHER COPYRIGHTED PLANS. BUILDER/CONTRACTOR ACCEPTS RESPONSIBILITY FOR ANY AND ON SITE CHANGES MADE TO STRUCTURE.




## LEFT ELEVATION

1/8" = 1'0"




## RIGHT ELEVATION

1/8" = 1'0"


## REAR ELEVATION

1/8" = 1'0"

Digitally signed by Kim Brennan
Reason: Release for Construction
Date: 2022.01.06 16:57:16-06'00'

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
Development Services
LEE'S SUMMIT, MISSOURI

STATE OF MISSOURI
AARON DELANEY OBERHAUS
NUMBER A-2001019580
PROFESSIONAL ENGINEER
1-06-22

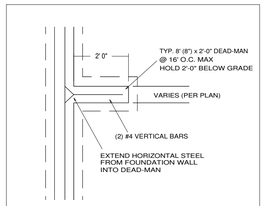
SQUARE FOOTAGE

LIVING AREA
FIRST FLOOR = 1735
BASEMENT = 1248

UNFINISHED AREA
STORAGE BASEMENT = 328
GARAGE = 787

# THE "WHITE TAIL"

KH-6107 (WHITE TAIL)




TYPICAL DEAD-MAN SECTION

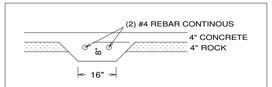
SEE ELEVATION FOR WALL HEIGHTS

NOTE... ELECTRICAL SERVICE TO BE 200 AMP.

NOTE... DOUBLE JOIST UNDER ALL PARALLEL WALLS ABOVE UNLESS NOTED

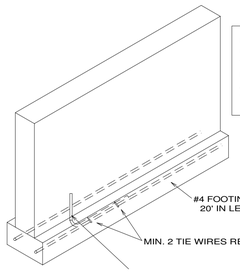
S.D. = SMOKE DETECTOR

42" X 42" X 12" CONCRETE PADS WITH (6) #4 REBARS EACH WAY (UNLESS NOTED)




GRADE PAD

1/2" = 1'0"




REBAR MAY BE BROUGHT UP DIRECTLY THROUGH THE CONCRETE, PROVIDED IT IS SLEEVED AND COMES UP INSIDE THE BUILDING

1. Section 250.52 of the National Electrical Code requires that the concrete encased reinforcing steel be included in the grounding electrode system... This means that you must have "an electrode encased by at least 50 mm (2 in.) of concrete, located horizontally near the bottom or vertically, and within that portion of a concrete foundation or footing that is in direct contact with the earth, consisting of at least 6.0 m (20 ft) of one or more bare or zinc galvanized or other electrically conductive coated steel reinforcing bars or rods of not less than 13 mm (1/2 in.) in diameter, or consisting of at least 6.0 m (20 ft) of bare copper conductor not smaller than 4 AWG.
2. Reinforcing bars shall be permitted to be bonded together by the usual steel tie wires or other effective means. Where multiple concrete-encased electrodes are present at a building or structure, it shall be permissible to bond only one into the grounding electrode system." Proper lap splices are required

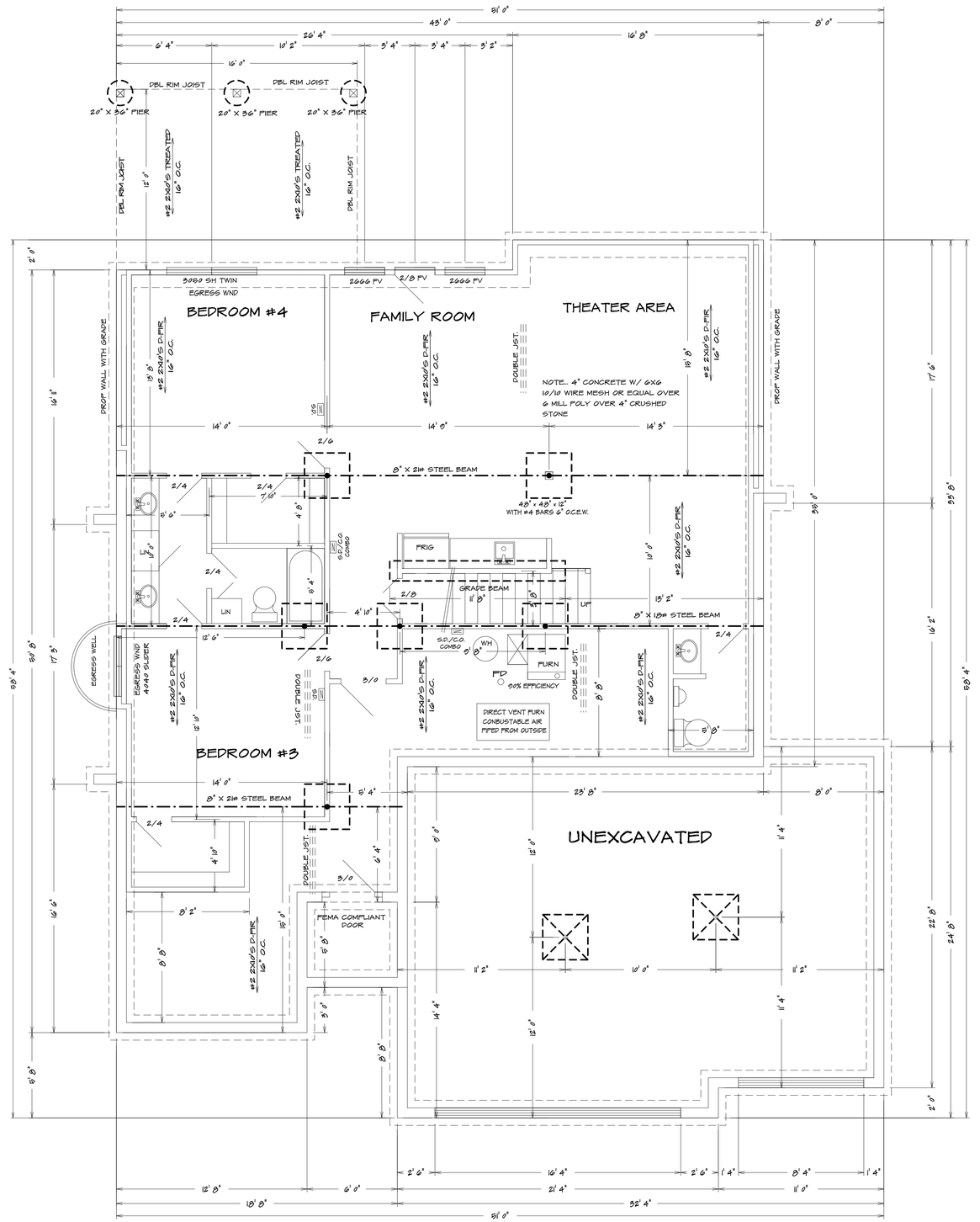
UFER GOUNDING SECTION




TYPICAL FOUNDATION WALL

STEEL COLUMNS TO BE 3" DIAMETER SCHEDULE 40 PIPE MANUFACTURED IN ACCORDANCE WITH ASTM A53 GRADE B OR APPROVED EQUIVALENT UNLESS NOTED

Note...Bridging. Joists exceeding a nominal 2 inches by 12 inches shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch strip nailed across the bottom of joists perpendicular to joists at intervals not exceeding 8 feet. (R502.7.1)




LOT 134 NAPA
1523 SW BLACKSTONE
LEES SUMMIT MO.

ALL NOTES, SECTIONS, AND DRAWINGS ARE IN ACCORDANCE WITH THE 2018 IRC

BASEMENT PLAN

1/4" = 1'0"

KH-6107 (WHITE TAIL)

| | | | |
|---|---|---|---|
| SHEET NO. 2 | | APPROX. SQFT. | |
| PLAN NO. KH-6107 | | FILE NAME: 6107 BSMT | |
| DATE DRAWN: | DATE REVISED: | DESIGNER: | |
| PHONE: | PHONE: | LOT NO. | |
| HOME BUYER: | BUILDER: | SUB-DIVISION: | |

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
Development Services
LEE'S SUMMIT, MISSOURI

SEE ELEVATION FOR
WALL HEIGHTS

NOTE... ELECTRICAL SERVICE
TO BE 200 AMP.

NOTE... DOUBLE JOIST UNDER
ALL PARALLEL WALLS
ABOVE UNLESS NOTED

S.D. = SMOKE DETECTOR

## GENERAL HEADER SPECIFICATIONS:

| REQUIRED AREAS NEEDING HEADERS: | HEADER DESCRIPTIONS: |
|---|---|
| WINDOWS/DOORS UP TO 38" R.O. | (2) #2 D-FIR 2X10'S |
| WINDOWS/DOORS 38" UP TO 72" R.O. | (2) #2 D-FIR 2X10'S W/1/2" GLUE PLY |
| WINDOWS/DOORS 72" UP TO 96" R.O. | (2) 9 1/2" L.V.L. |
| 8'0" GARAGE DOORS W/CEILING & ROOF LOAD | (2) 9 1/2" L.V.L. |
| 9'0" GARAGE DOORS W/CEILING & ROOF LOAD | (2) 9 1/2" L.V.L. |
| 8'0" GARAGE DOORS W/SECOND FLOOR | (2) 9 1/2" L.V.L. |
| 9'0" GARAGE DOORS W/SECOND FLOOR | (2) 11 7/8" L.V.L. |
| 16'0" GARAGE DOOR W/NO SECOND FLOOR | (2) 11 7/8" L.V.L. |
| 16'0" GARAGE DOORS W/SECOND FLOOR | (2) 14" L.V.L. |

USE HEADERS FOR OPENINGS ABOVE UNLESS SPECIFIED OTHERWISE.

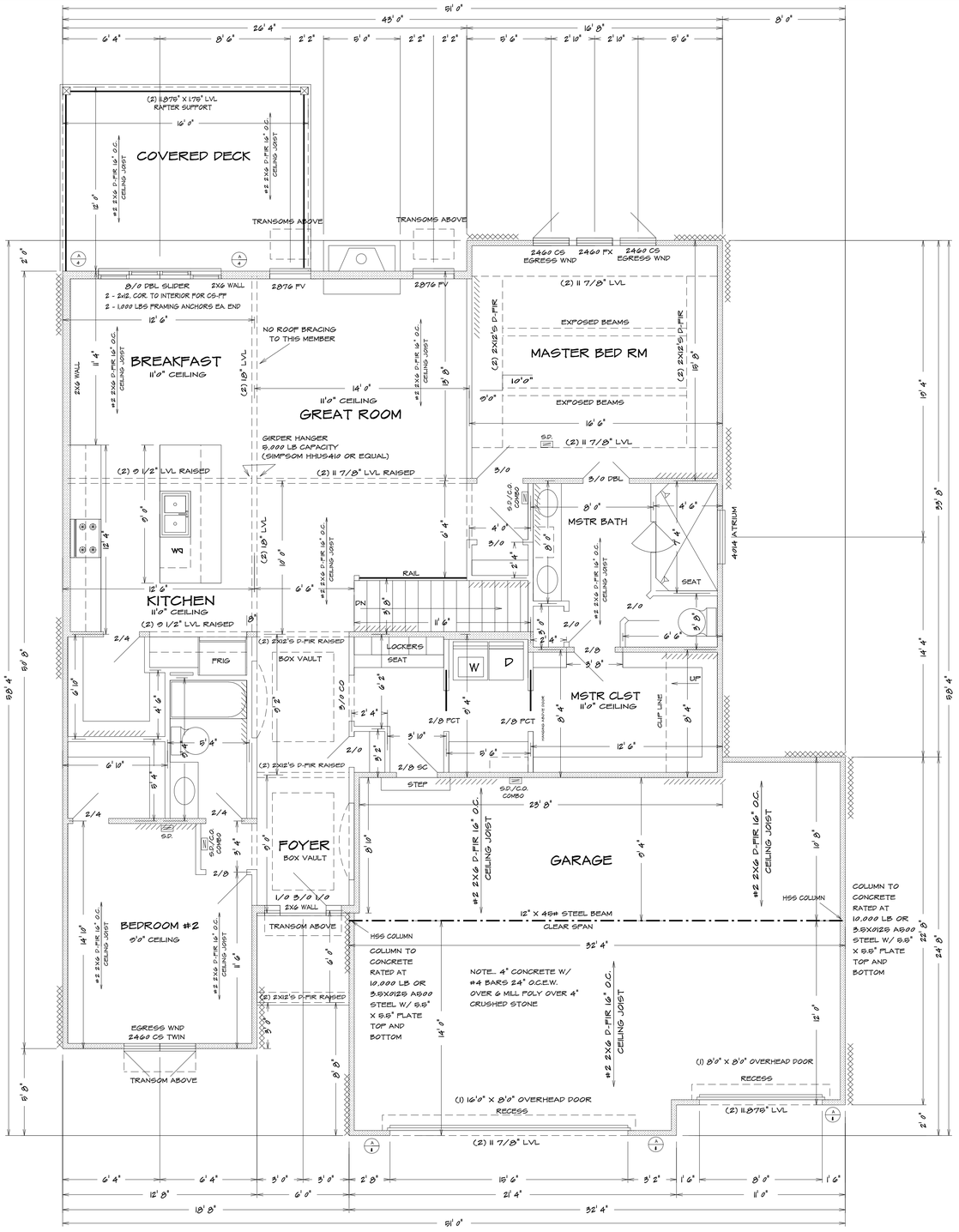
R312.2.1 Window sills.
In dwelling units, where the opening of an operable window is located more than 72 inches (1830 mm) above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4-inch-diameter (102 mm) sphere where such openings are located within 24 inches (610 mm) of the finished floor.

Exceptions:
1. Windows whose openings will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position.
2. Openings that are provided with window fall prevention devices that comply with ASTM F 2090.
3. Windows that are provided with window opening control devices that comply with Section R312.2.2.

R312.2.2 Window opening control devices.

Window opening control devices shall comply with ASTM F 2090. The window opening control device, after operation to release the control device allowing the window to fully open, shall not reduce the minimum net clear opening area of the window unit to less than the area required by Section R310.1.1.

Bathrooms, water closet compartments and other similar rooms shall be provided with aggregate glazing area in windows of not less than 3 square feet, one-half of which must be openable.
Exception:
The glazed areas shall not be required where artificial light and a local exhaust system are provided.
The minimum local exhaust rates shall be determined in accordance with Section M1507.
Exhaust air from the space shall be exhausted directly to the outdoors.




LOT 134 NAPA
1523 SW BLACKSTONE
LEES SUMMIT MO.

ALL NOTES, SECTIONS, AND DRAWINGS
ARE IN ACCORDANCE WITH THE 2018 IRC

# FIRST FLOOR PLAN
1/4" = 1'0"

KH-6107 (WHITE TAIL)

| | | | |
|---|---|---|---|
| PLAN NO. KH-6107 | SHEET NO. 3 | | |
| FILE NAME: 6107 FLR1 | APPROX. SQ.FT. | | |
| DESIGNER: | DATE REVISED: | DATE DRAWN: | |
| LOT NO. | PHONE: | PHONE: | BUILDER: |
| SUB-DIVISION: | HOME BUYER: | | |

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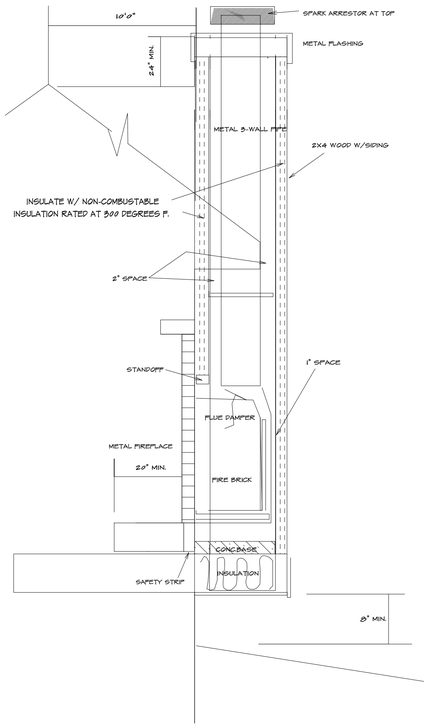
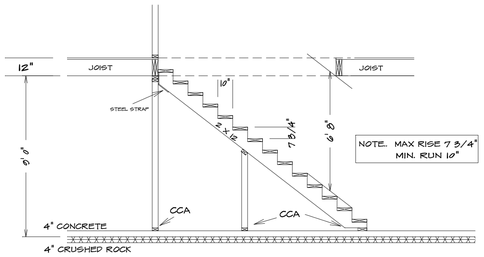
STATE OF MISSOURI
AARON DELANO OBERMILLER
NUMBER A-2008019580
PROFESSIONAL ENGINEER
Aaron D. Obermiller 6.6.22

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
Development Services
LEE'S SUMMIT, MISSOURI

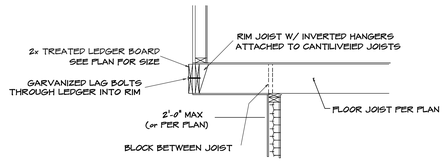



# TYPICAL METAL FIRE PLACE

NOTE..SEE SPECS FOR SPECIFIC APPLICATIONS.

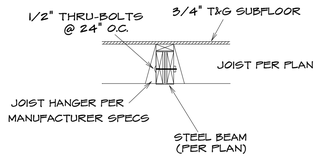



## STAIR SECTION (TYP)

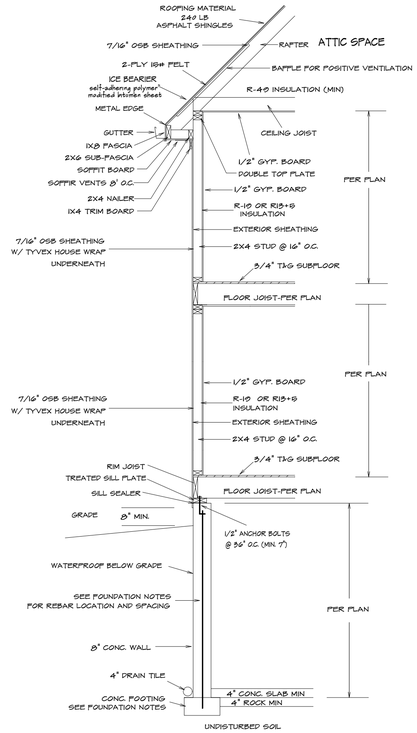



| DECK JOIST SPAN | 1/2" Ø LAG SPACING | EQUIVALENT SPACING FOR 16" O.C. JOIST BAYS |
|---|---|---|
| UP TO 10'-0" | 16" O.C. | N/A |
| 10'-0" -14'-0" | 12" O.C. | 16" O.C. DBL. EVERY OTHER |
| 14'-0" -18'-0" | 8" O.C. | 16" O.C. DBL. EVERY JOIST BAY |

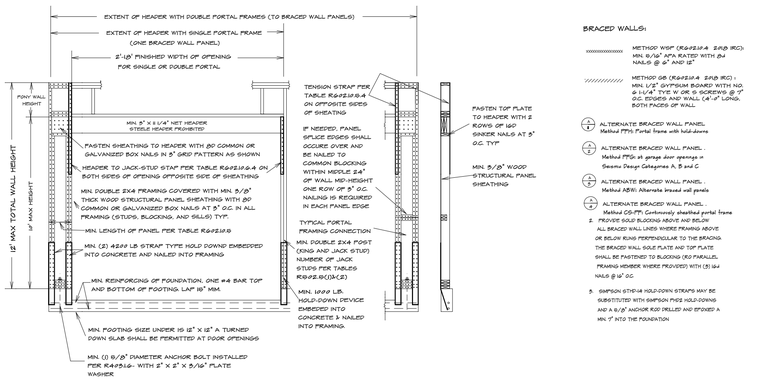
## TYPICAL CANTILEVER FRAMING W/ DECK ATTACHMENT




## UPSET STEEL BEAM/JOIST CONNECTION




## TYPICAL WALL SECTION



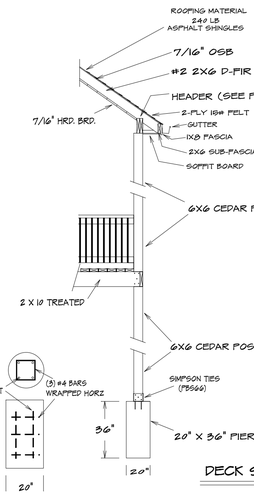

A ALTERNATE BRACED WALL PANEL
Method PFH: Portal frame with hold-downs

## BRACED WALL SECTION

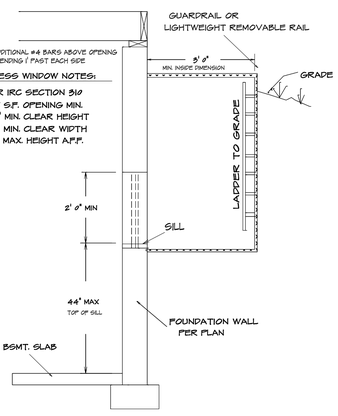
BRACED WALLS:

- METHOD WSP (R602.10.4 2018 IRC): MIN. 8/16" APA RATED WITH 8d NAILS @ 6" AND 12".
- METHOD GB (R602.10.4 2018 IRC) : MIN. 1/2" GYPSUM BOARD WITH NO. 6 1/4" TYP. W OR S SCREWS @ 7" O.C. EDGES AND WALL (4'-0" LONG. BOTH FACES OF WALL.
- 1 ALTERNATE BRACED WALL PANEL Method PFH: Portal frame with hold-downs
- 2 ALTERNATE BRACED WALL PANEL Method PFG: at garage door openings in Seismic Design Categories A, B and C
- 3 ALTERNATE BRACED WALL PANEL Method CS-PF: Continuously sheathed portal frame
- 4 ALTERNATE BRACED WALL PANEL Method ABW: Alternate braced wall panels

1. PROVIDE SOLID BLOCKING ABOVE AND BELOW ALL BRACED WALL LINES WHERE FRAMING ABOVE OR BELOW RUNS PERPENDULAR TO THE BRACING. THE BRACED WALL SOLE PLATE AND TOP PLATE SHALL BE FASTENED TO BLOCKING (RIM PARALLEL FRAMING MEMBER WHERE PROVIDED) WITH (3) 16d NAILS @ 16" OC
3. SIMPSON STHD14 HOLD-DOWN STRAPS MAY BE SUBSTITUTED WITH SIMPSON PHD5 HOLD-DOWNS AND A 5/8" ANCHOR R30 DRILLED AND EPOXED A MIN. 7" INTO THE FOUNDATION




## DECK SECTION




## TYPICAL EGRESS WINDOW SECTION DETAIL

GARAGE

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

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 BOTTEM 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 BOTTEM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITH IN 36"

EMERGENCY EGRESS

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

ELECTRICAL OUTLETS

1. ALL OUTLETS TO BE ARC FAULT CIRCUIT-INTERRUPTER OR GROUND FAULT CIRCUIT-INTERRUPTER PROTECTED

   EXCEPT.. REFRIGERATOR, SINGLE OUTLET FOR SUMP PUMP AND SINGLE OUTLET IN GARAGE FOR A FREEZER

2. ALL OUTLETS TO BE TAMPER RESISTANT

CARBON MONOXIDE ALARMS

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.

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.

FRAMING NOTE

1. ALL LUMBER SIZES ARE FOR #2 D.FIR-LARCH
2. ALL HEADERS TO BE MIN. (2) #2-2X8
3. BLOCK CANTILEVERS, DOOR JAMBS, AND OVER BEAMS
4. ALL HEARS TO BEAR ON MIN. OF (2) 2X4 STUDS
5. JOIST UNDER BEARING PARTITIONS SHALL BE DOUBLED AND COMPLY WITH IRC SEC. R502.4
6. WATER-RESISTIVE BARRIER SHALL BE PROVIDED OVER ALL EXTERIOR WALL PER IRC SEC. R703
7. 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
8. COLLAR TIES SHALL BE PROVIDED IN THE ATTIC SPACE IN THE UPPER 1/3 OF ATTIC
9. ROOF IS DESIGNED FOR 20 P.S.F. ROOF SNOW LOAD (MIN.)
10. MIN 20 YR. ASPHALT SHINGLES
11. RAFTER TIES SHALL NOT BE REQUIED 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

Guard opening limtations.
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.

Opening protection.
Openings from a private garage directly into a room used for sleeping purposes shall not be permitted.
Other openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches in thickness, solid or honeycomb-core steel doors not less than 1 3/8 inches thick, or 20-minite fire-rated doors, equipped with a self-closing device.

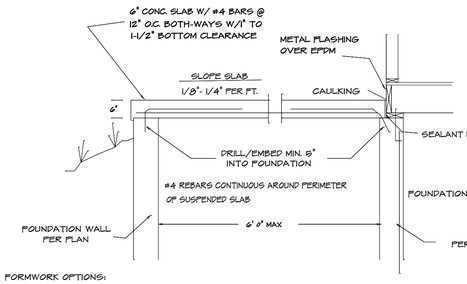
SMOKE ALARMS:

2018 IRC.
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 R314.6)

INSULATION NOTES:

2018 IRC.
MIN. INSULATION SHALL BE PROVIDED ADJACENT TO HABITABLE AREAS AS FOLLOWS:

| | |
|---|---|
| EXTERIOR FRAMED WALLS | (R10 OR R15+8) |
| FLOOR OVER HEATED SPACE | R10 |
| FLOOR OVER OUTSIDE AIR | R10 |
| ATTIC - BLOWN IN | R49 |
| CATHEDRAL CEILING | R30 |



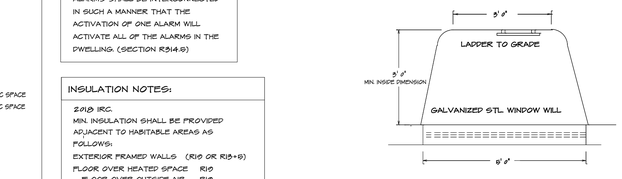

FORMWORK OPTIONS:

1. PROVIDE VULCRAFT 2VL: (OR EQUAL CORRUGATED DECKING (SHORE AT MID-SPAN DURING CONSTRUCTION) or
2. PLYWOOD FORMS WITH EXPANDABLE BAR JOIST OR TEMPORARY FRAMED WALLS BY CONTRACTOR

## SUSPENDED PORCH STOOP DETAIL OPTIONAL

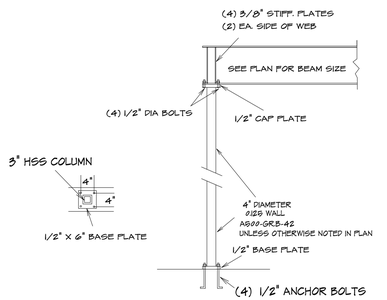
PORCH SLAB (6'SPAN OR LESS)

1. MAXIMUM SPAN = 6'
2. MINIMUM 6" THICKNESS
3. #4 REBARS AT 12" O.C. EACH WAY
4. MIN. 1-1/2" OF CONTINUOUS BEARING AT THE EDGES OF SLAB
5. PORCH SLAB GREATER THEN 6' SHALL BE TREATED AS AN ELEVATED GARAGE SLAB

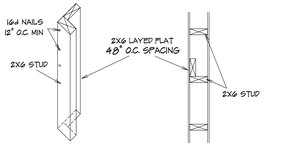



## TYPICAL EGRESS WINDOW PLAN SECTION

## TYPICAL F.P. FRONT




## HSS COLUMN DETAIL




## EXTERIOR TALL WALL SECTION

10' TRU 18' TALL WALLS UNINTERRUPTED TO BE CONSTRUCTED WITH 2X6 STUDS 16" O.C. WITH STIFF BACK EVERY 48" O.C.

ALL NOTES, SECTIONS, AND DRAWINGS ARE IN ACCORDANCE WITH THE 2018 IRC

AARON D. OBERMILLER — NUMBER PE-2010019580 — PROFESSIONAL ENGINEER — STATE OF MISSOURI — 06-22

BUILDER/CONTRACTOR IS RESPONSIBLE TO CHECK ALL DIMENSIONS FOR ACCURACY BETWEEN FLOORS, FOUNDATION, AND ELEVATIONS. ALSO VERIFY: ALL BEAM, HEADERS, PAD LOCATIONS, AND COLUMN SIZES. BUILDER&CONTRACTOR TO CHECK FOR COMPLIANCE WITH CONTRACTS, CITY, AND NATIONAL CODES. BUILDER&CONTRACTOR ACCEPTS ALL RESPONSIBILITY FOR LOT PLACEMENT, SET-BACKS, AND FLOOD PLAINS. BUILDER&CONTRACTOR AND HOME OWNER ACCEPTS RESPONSIBILITY FOR ANY AND ALL BUILDING ATTACHMENTS OR REMBALANCES TO OTHER COPYRIGHTED PLANS. BUILDER&CONTRACTOR ACCEPTS RESPONSIBILITY FOR ANY AN ON SITE CHANGES MADE TO STRUCTURE.

| | | | |
|---|---|---|---|
| HOME BUYER: | | SHEET NO. | 4 |
| BUILDER: | PLAN NO. KH-6107 | | APPROX. SQFT. |
| SUB-DIVISION: | FILE NAME: 6107 SEC1 | | |
| PHONE: | DATE DRAWN: | DATE REVISED: | DESIGNER: |
| PHONE: | | | |
| LOT NO. | | | |

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
Development Services
LEE'S SUMMIT, MISSOURI

## Foundation Wall Reinforcement Schedule - Table 2

| Vertical reinforcement spacing 60 psf soil | | | | | | |
|---|---|---|---|---|---|---|
| Concrete strength/Grade | 8 inch thick wall | | | 10 inch thick wall | | |
| Reinforcement #4 bar | 8' | 9' | 10' | 8' | 9' | 10' |
| 3,000 psi / Grade 40 | 16 | 12 | NP | 24 | 16 | 12 |
| 3,500 psi / Grade 40 | 16 | 12 | NP | 24 | 24 | 12 |
| 3,000 psi / Grade 60 | 24 | 16 | NP | 24 | 20 | 16 |
| 3,500 psi / Grade 60 | 24 | 16 | NP | 24 | 24 | 16 |

| Horizontal reinforcement – Minimum Grade 40 steel | #4 bar | | | | | |
|---|---|---|---|---|---|---|
| One bar 12" from top of wall; maximum spacing 24" o.c. | 4-#4 | 5-#4 | 6-#4 | 4-#4 | 5-#4 | 6-#4 |

**Footnotes:**

1) Wall height is measured from the top of the wall to the top of the floor slab.
2) Vertical reinforcement for concrete walls that are not full height and for reinforcement spaced 24 inch on center may be placed in the middle of the wall. Other walls shall have vertical reinforcement place as follows:
   a) 8-inch wall - Minimum 5 inches from the outside face.
   b) 10-inch wall – Minimum 6.75 inches from the outside face.
   c) Extend bars to within 8 inches of the top of the wall.
3) Reinforcement clearances:
   a) Concrete exposed to earth – minimum 1-1/2 inches.
   b) Not exposed to weather (interior side of walls) – minimum 3/4 inch.
   c) Concrete exposed to weather (top clearance in garage and driveway slabs)- 1-1/2 inches.
4) Horizontal reinforcement:
   a) One bar shall be placed within 12 inches of the top of the wall.
   b) Other bars shall be equally spaced with spacing not to exceed 24 inches on center.
   c) Horizontal bars should be as close to the tension face as possible (interior) and behind the vertical reinforcement (i.e.2" towards the inside).
   d) Supplemental reinforcement at corners - Place 1 #4 bar 48 inches long at 45 degree angle at corners of openings per Figure 4a. Place reinforcement within 6" of the edge of inside corners
5) Reinforcement shall be lapped a minimum 24 inches at ends, splices, and around corners.
6) At masonry ledges the minimum wall thickness shall be 3-1/2 inches. Ledges shall not exceed a depth of more than 24 inches below the top of the wall. For wall thicknesses less than 4 inches provide #4 bars at maximum 24 inches on center to within 8 inches of the top of the wall.
7) Straight walls more than 5 feet tall and more than 16 feet long shall be provided with exterior braced return walls. Wall length shall be measured using inside the shortest dimension between intersecting walls (See 7/S2).

**TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS**

| ITEM | DESCRIPTION OF BUILDING ELEMENTS | NUMBER AND TYPE OF FASTENER[a, b, c] | SPACING OF FASTENERS |
|---|---|---|---|
| | **Roof** | | |
| 1 | Blocking between joists or rafters to top plate, toe nail | 3-8d (2½" × 0.113") | — |
| 2 | Ceiling joists to plate, toe nail | 3-8d (2½" × 0.113") | — |
| 3 | Ceiling joists not attached to parallel rafter, laps over partitions, face nail | 3-10d | — |
| 4 | Collar tie to rafter, face nail or 1¼" × 20 gage ridge strap | 3-10d (3" × 0.128") | — |
| 5 | Rafter or roof truss to plate, toe nail | 3-16d box nails (3½" × 0.135") or 3-10d common nails (3" × 0.148") | 2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss[i] |
| 6 | Roof rafters to ridge, valley or hip rafters: toe nail face nail | 4-16d (3½" × 0.135") 3-16d (3½" × 0.135") | — |
| | **Wall** | | |
| 7 | Built-up studs-face nail | 10d (3" × 0.128") | 24" o.c. |
| 8 | Abutting studs at intersecting wall corners, face nail | 16d (3½" × 0.135") | 12" o.c. |
| 9 | Built-up header, two pieces with ½" spacer | 16d (3½" × 0.135") | 16" o.c. along each edge |
| 10 | Continued header, two pieces | 16d (3½" × 0.135") | 16" o.c. along each edge |
| 11 | Continuous header to stud, toe nail | 4-8d (2½" × 0.113") | — |
| 12 | Double studs, face nail | 10d (3" × 0.128") | 24" o.c. |
| 13 | Double top plates, face nail | 10d (3" × 0.128") | 24" o.c. |
| 14 | Double top plates, minimum 24-inch offset of end joints, face nail in lapped area | 8-16d (3½" × 0.135") | — |
| 15 | Sole plate to joist or blocking, face nail | 16d (3½" × 0.135") | 16" o.c. |
| 16 | Sole plate to joist or blocking at braced wall panels | 3-16d (3½" × 0.135") | 16" o.c. |
| 17 | Stud to sole plate, toe nail | 3-8d (2½" × 0.113") or 2-16d (3½" × 0.135") | — — |
| 18 | Top or sole plate to stud, end nail | 2-16d (3½" × 0.135") | — |
| 19 | Top plates, laps at corners and intersections, face nail | 2-10d (3" × 0.128") | — |
| 20 | 1" brace to each stud and plate, face nail | 2-8d (2½" × 0.113") 2 staples 1 ¾" × | — — |
| 21 | 1" × 6" sheathing to each bearing, face nail | 2-8d (2½" × 0.113") 2 staples 1 ¾" | — — |
| 22 | 1" × 8" sheathing to each bearing, face nail | 2-8d (2½" × 0.113") 3 staples 1 ¾" | — — |
| 23 | Wider than 1" × 8" sheathing to each bearing, face nail | 3-8d (2½" × 0.113") 4 staples 1¾" | — — |
| | **Floor** | | |
| 24 | Joist to sill or girder, toe nail | 3-8d (2½" × 0.113") | — |
| 25 | Rim joist to top plate, toe nail (roof applications also) | 8d (2½" × 0.113") | 6" o.c. |
| 26 | Rim joist or blocking to sill plate, toe nail | 8d (2½" × 0.113") | 6" o.c. |
| 27 | 1" × 6" subfloor or less to each joist, face nail | 2-8d (2½" × 0.113") 2 staples 1¾" | — — |
| 28 | 2" subfloor to joist or girder, blind and face nail | 2-16d (3½" × 0.135") | — |
| 29 | 2" planks (plank & beam - floor & roof) | 2-16d (3½" × 0.135") | at each bearing |
| 30 | Built-up girders and beams, 2-inch lumber layers | 10d (3" × 0.128") | Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice. |
| 31 | Ledger strip supporting joists or rafters | 3-16d (3½" × 0.135") | At each joist or rafter |

**TABLE R602.3(1)—continued FASTENER SCHEDULE FOR STRUCTURAL MEMBERS**

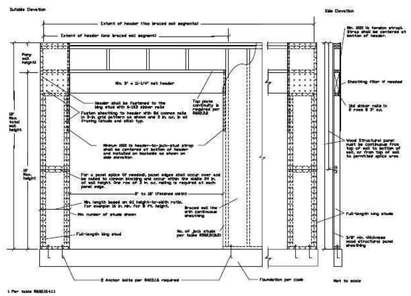
| ITEM | DESCRIPTION OF BUILDING MATERIALS | DESCRIPTION OF FASTENER[a, b, c, e] | SPACING OF FASTENERS: Edges (inches)[g] | SPACING OF FASTENERS: Intermediate supports[c, e] (inches) |
|---|---|---|---|---|
| | **Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing** | | | |
| 32 | ⅜" - ½" | 6d common (2" × 0.113") nail (subfloor wall)[d] 8d common (2½" × 0.131") nail (roof)[d] | 6 | 12[g] |
| 33 | 19/32" - 1" | 8d common nail (2½" × 0.131") | 6 | 12[g] |
| 34 | 1⅛" - 1¼" | 10d common (3" × 0.148") nail or 8d (2½" × 0.131") deformed nail | 6 | 12 |
| | **Other wall sheathing[h]** | | | |
| 35 | ½" structural cellulosic fiberboard sheathing | 1½" galvanized roofing nail, 7/16" crown or 1" crown staple 16 ga., 1¼" long | 3 | 6 |
| 36 | 25/32" structural cellulosic fiberboard sheathing | 1¾" galvanized roofing nail, 7/16" crown or 1" crown staple 16 ga., 1½" long | 3 | 6 |
| 37 | ½" gypsum sheathing[f] | 1½" galvanized roofing nail; staple galvanized, 1½" long; 1¼ screws, Type W or S | 7 | 7 |
| 38 | ⅝" gypsum sheathing[f] | 1¾" galvanized roofing nail; staple galvanized, 1⅝" long; 1⅝" screws, Type W or S | 7 | 7 |
| | **Wood structural panels, combination subfloor underlayment to framing** | | | |
| 39 | ¾" and less | 8d deformed (2" × 0.120") nail or 8d common (2½" × 0.131") nail | 6 | 12 |
| 40 | ⅞" - 1" | 8d common (2½" × 0.131") nail or 8d deformed (2½" × 0.120") nail | 6 | 12 |
| 41 | 1⅛" - 1¼" | 10d common (3" × 0.148") nail or 8d deformed (2½" × 0.120") nail | 6 | 12 |

For SI: 1 inch = 25.4 mm. 1 foot = 304.8 mm. 1 mile per hour = 0.447 m/s; 1 Ksi = 6.895 MPa.

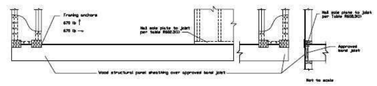
REQUIRED FOOTINGS:

| BUILDING HEIGHT | MINIMUM FOOTING | HORIZONTAL REBAR | LOCATION OF REBAR |
|---|---|---|---|
| 1 OR 2 STY. | 8"T x 16"W | 2-#4 | 3" FROM BTM. |
| 3 STORY | 8"T x 24"W | 2-#4 | 3" FROM BTM. |
| ACC. STR. | 8"T x 12"W | 2-#4 | 3" FROM BTM. |

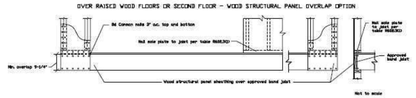
OVER CONCRETE OR MASONRY BLOCK FOUNDATION




OVER RAISED WOOD FLOORS OR SECOND FLOOR - FRAMING ANCHOR OPTION

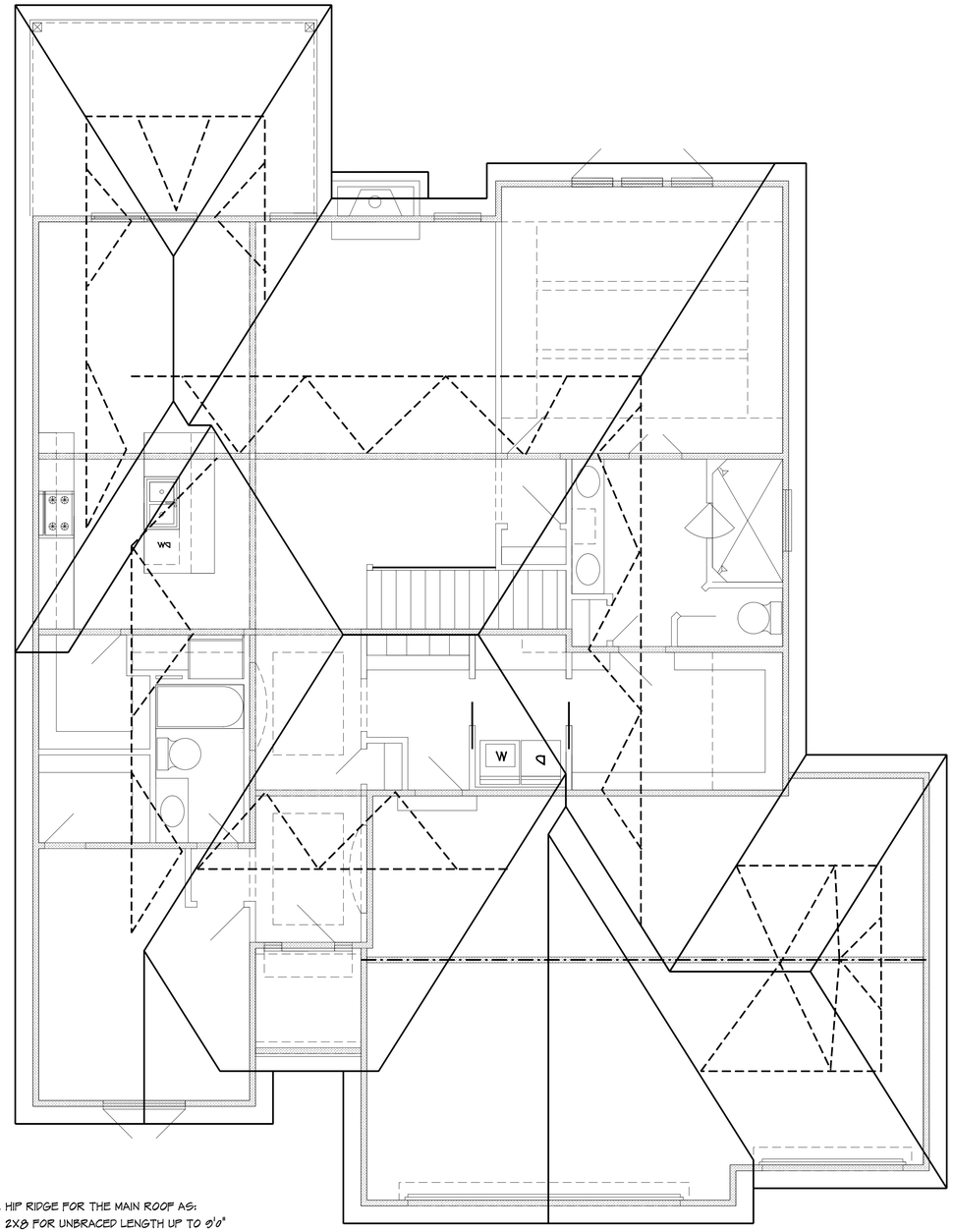



OVER RAISED WOOD FLOORS OR SECOND FLOOR - WOOD STRUCTURAL PANEL OVERLAP OPTION




## CF-PF WALL BRACING SECTION

LOT 134 NAPA
1523 SW BLACKSTONE
LEES SUMMIT MO.




NOTE... HIP RIDGE FOR THE MAIN ROOF AS:
2X8 FOR UNBRACED LENGTH UP TO 5'0"
2X10 FOR UNBRACED LENGTH UP TO 10'0"
2X12 FOR UNBRACED LENGTH UP TO 12'0"

ALL RAFTERS TO BE #2 2X6 D-FIR 16" O.C.
UNLESS OTHER WISE NOTED

PURLING RAFTERS TO BEARING WALL LINES

CONNECT RAFTERS TO CEILING JOIST W (4) 16d GALV. NAILS

CONNECT RAFTERS TO RIDGE, VALLEY, AND HIP RIDGE WITH (4) 16d GALV. NAILS

VERT. RIDGE AND RAFTER SUPPORTS TO BE EQUAL TO OR GREATER THAN THE DEPTH OF RAFTERS

BEARING WALL LINES

## ROOF ELEVATION

1/4" = 1'0"

ROOF DESIGNED WITH:
LIVE LOAD = 20 PSF
DEAD LOAD = 10 PSF

STATE OF MISSOURI
AARON DELMAR OBERKFELL
NUMBER A-2008019580
PROFESSIONAL ENGINEER
Aaron D. Oberkfell 6-16-22

ALL NOTES, SECTIONS, AND DRAWINGS ARE IN ACCORDANCE WITH THE 2018 IRC

HOME BUYER:
BUILDER:
SUB-DIVISION:
LOT NO.
PHONE:
PHONE:
DESIGNER:
DATE DRAWN:
DATE REVISED:
PLAN NO. KH-6107
FILE NAME: 6107 SEC2
SHEET NO. 6
APPROX. SQ.FT.

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RELEASE FOR CONSTRUCTION
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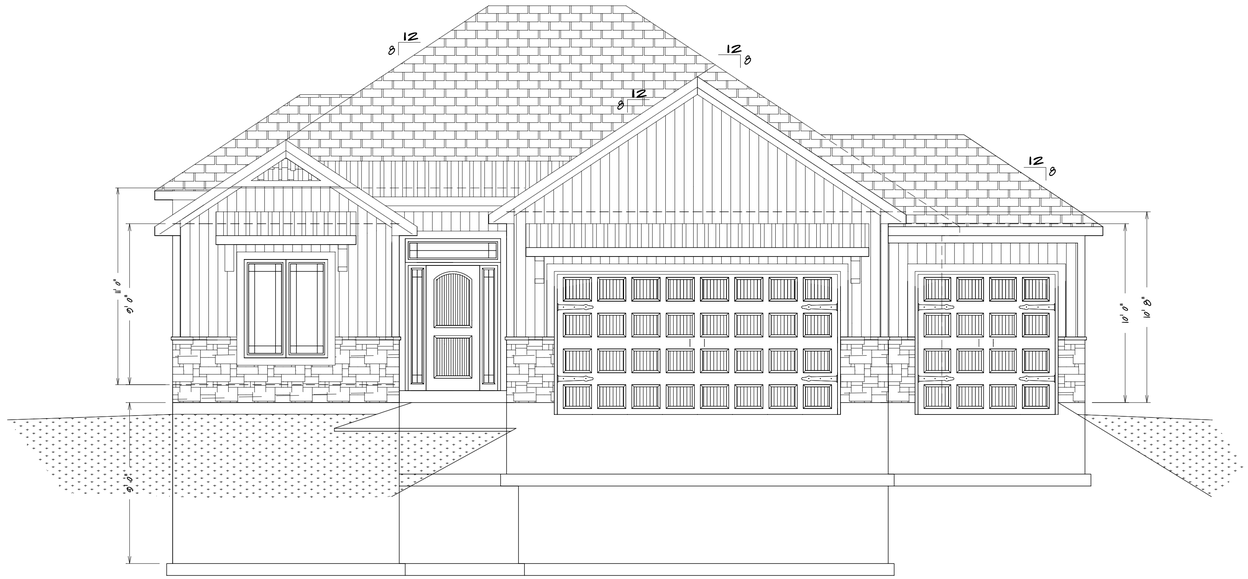
Development Services
LEE'S SUMMIT, MISSOURI

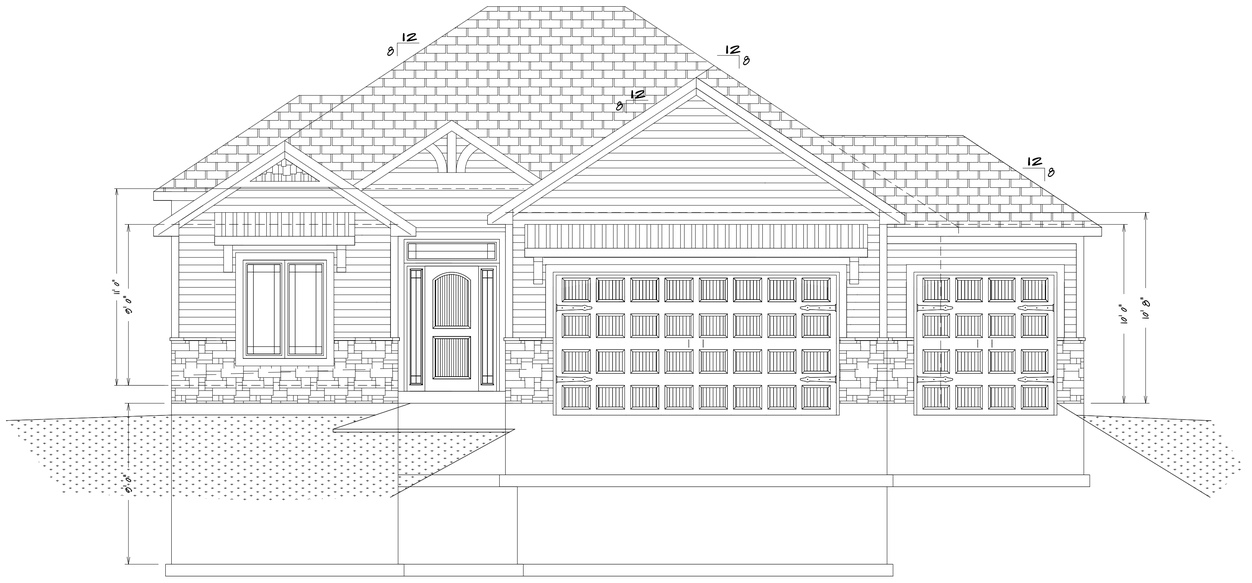
KH CONSTRUCTION
KEVIN HIGDON CONSTRUCTION

MD² DESIGNS
Quality By Design




OPTION-1
FRONT ELEVATION
1/4" = 1'0"

LOT 134 NAPA
1523 SW BLACKSTONE
LEES SUMMIT MO.




OPTION-2
FRONT ELEVATION
1/4" = 1'0"

# THE "WHITE TAIL"

KH-6107 (WHITE TAIL)

| | | | |
|---|---|---|---|
| SHEET NO. 0 | | | APPROX. SQFT. |
| PLAN NO. KH-6107 | | FILE NAME: 6107 FRN2 | |
| DATE DRAWN: | DATE REVISED: | DESIGNER: | |
| PHONE: | PHONE: | LOT NO. | |
| HOME BUYER: | BUILDER: | SUB-DIVISION: | |

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STATE OF MISSOURI
AARON DELMAR OBERHAUS
NUMBER PE-2008019580
PROFESSIONAL ENGINEER
Oberhaus
D. 06.22

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