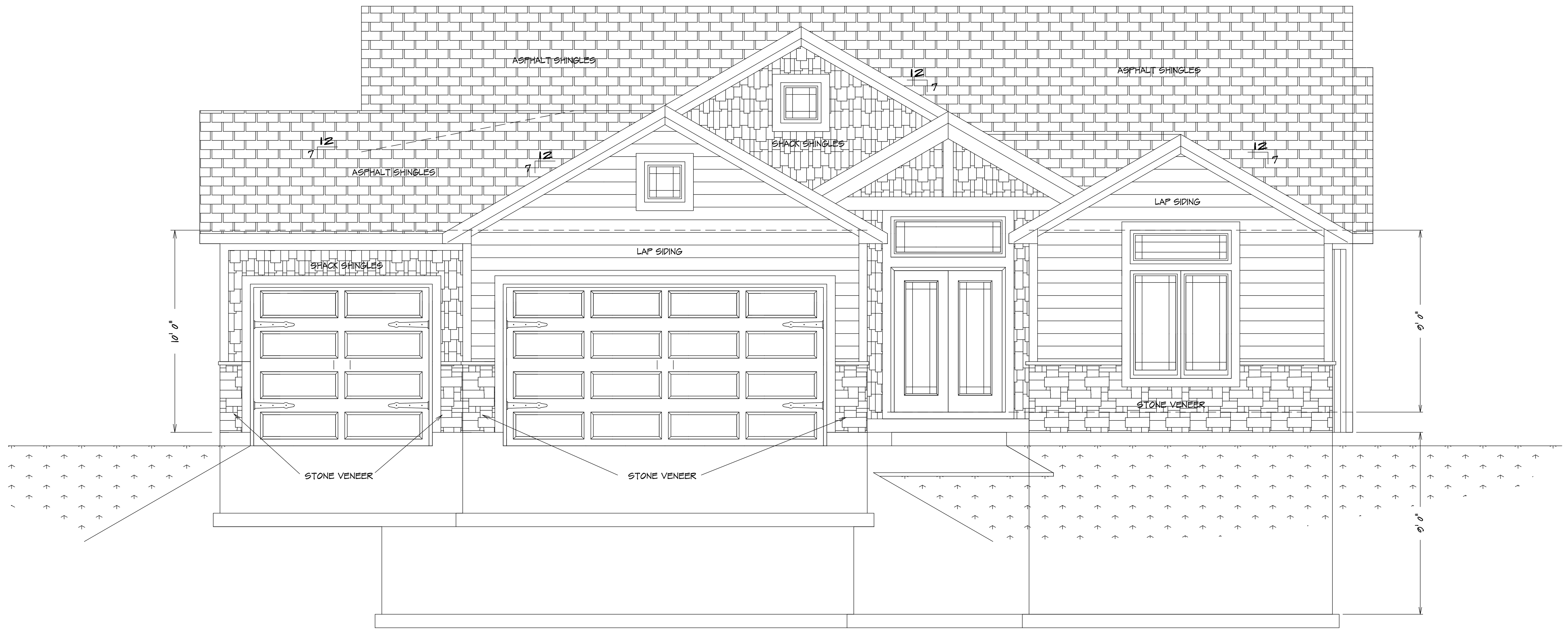
MD²
Quality By Design

KH CONSTRUCTION
KEVIN HIGDON CONSTRUCTION



1606 SW BLACKSTONE PLACE
LEES SUMMIT MO
LOT 128 NAPA VALLEY

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.

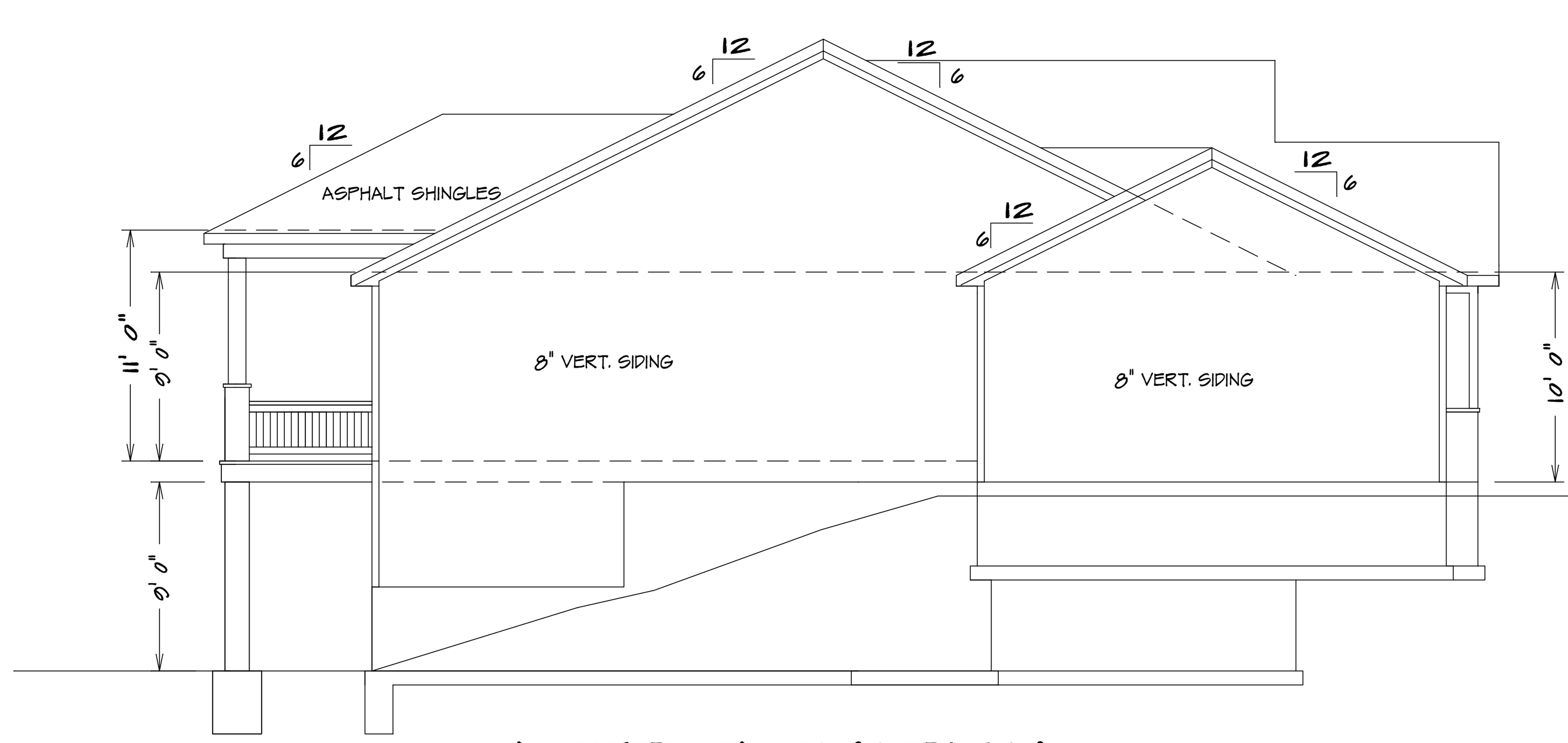
FRONT ELEVATION

1/4" = 1'0"

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

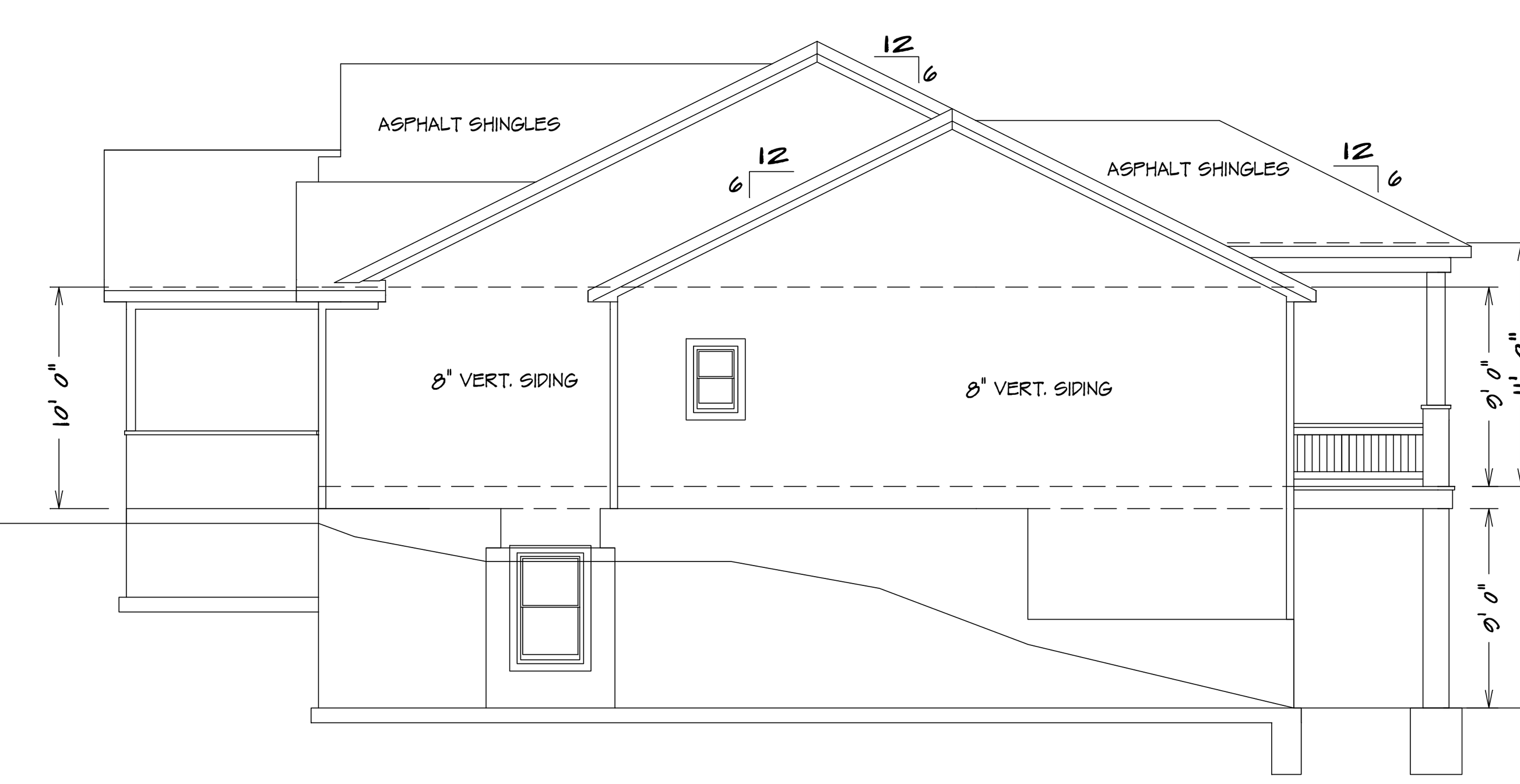
THE "CYPRESS"

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



LEFT ELEVATION

1/8" = 1'0"



RIGHT ELEVATION

1/8" = 1'0"

REAR ELEVATION

1/8" = 1'0"

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

SQUARE FOOTAGE

LIVING AREA
FIRST FLOOR = 1625
BASEMENT = 1215
COVERED DECK = 186

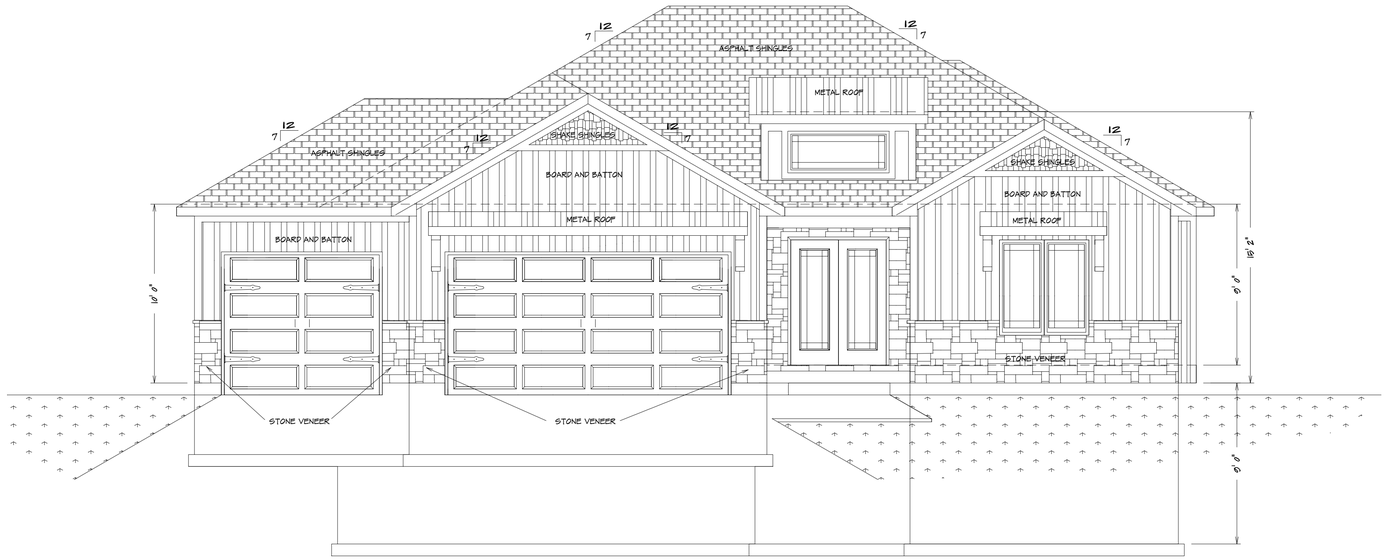
UNFINISHED AREA
STORAGE BASEMENT = 257
GARAGE = 725
UNDER STOOP = 32

SHEET NO. 1-B
APPROX. SQ.FT.
PLAN NO. KH-6105
FILE NAME: 6105 ELEV
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 RESPONSIBLITY FOR LOT PLACEMENT, SET-BACKS, AND FLOOD PLAINS. BUILDER&CONTRACTOR AND HOME OWNER ACCEPTS RESPONSIBLITY FOR ANY AND ALL COPYRIGHT INFRINGMENTS OR RESEMBLANCES TO OTHER COPYRIGHTED PLANS. BUILDER&CONTRACTOR ACCEPTS RESPONSIBLITY FOR ANY AN ON SITE CHANGES MADE TO STRUCTURE.

KH-6105 (THE CYPRESS) LOT 128

MD 2
Quality By Design



KH CONSTRUCTION
KEVIN HIGDON CONSTRUCTION

PHONE:	DATE DRAWN:	PLAN NO. KH-6105	SHEET NO. 1-B
PHONE:	DATE REVISED:	FILE NAME: 6106 ELEV	APPROX. SQ.FT.
LOT NO.	DESIGNER:		

1606 SW BLACKSTONE PLACE
LEES SUMMIT MO
LOT 128 NAPA VALLEY

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.

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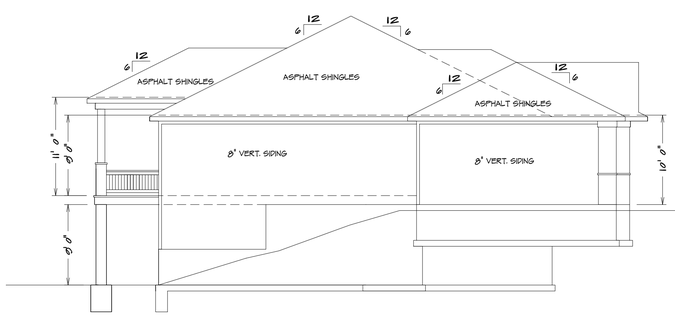
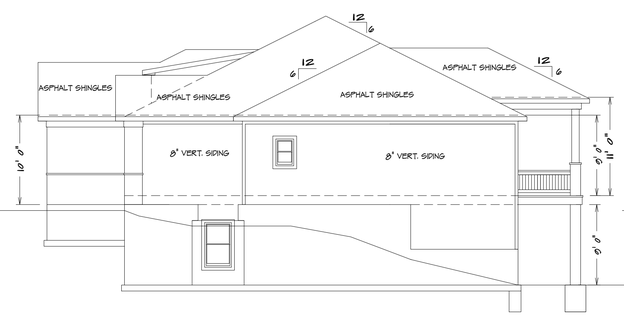
THE "CYPRESS"

FRONT ELEVATION
1/4" = 1'0"

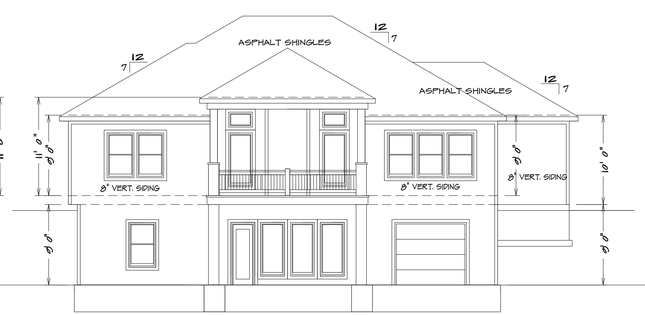
ALL NOTES, SECTIONS, AND DRAWINGS ARE IN ACCORDANCE WITH THE 2018 IRC



LEFT ELEVATION
1/8" = 1'0"



RIGHT ELEVATION
1/8" = 1'0"



REAR ELEVATION
1/8" = 1'0"

SQUARE FOOTAGE

LIVING AREA
- FIRST FLOOR = 1628
- BASEMENT = 1218
- COVERED DECK = 186

UNFINISHED AREA
- STORAGE BASEMENT = 287
- GARAGE = 728
- UNDER STOOP = 32

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 BUILDING CHANGES TO BE IN COMPLIANCE WITH CITY, COUNTY, STATE, AND FEDERAL CODES. BUILDER&CONTRACTOR ACCEPTS RESPONSIBILITY FOR ANY ON SITE CHANGES MADE TO STRUCTURE

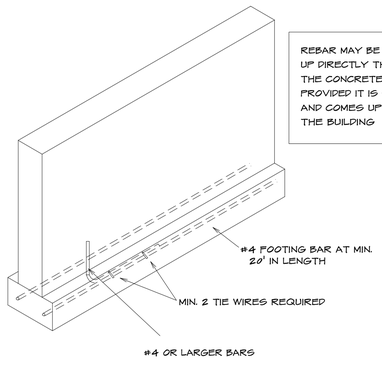
KH-6105 (THE CYPRESS) LOT 128

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

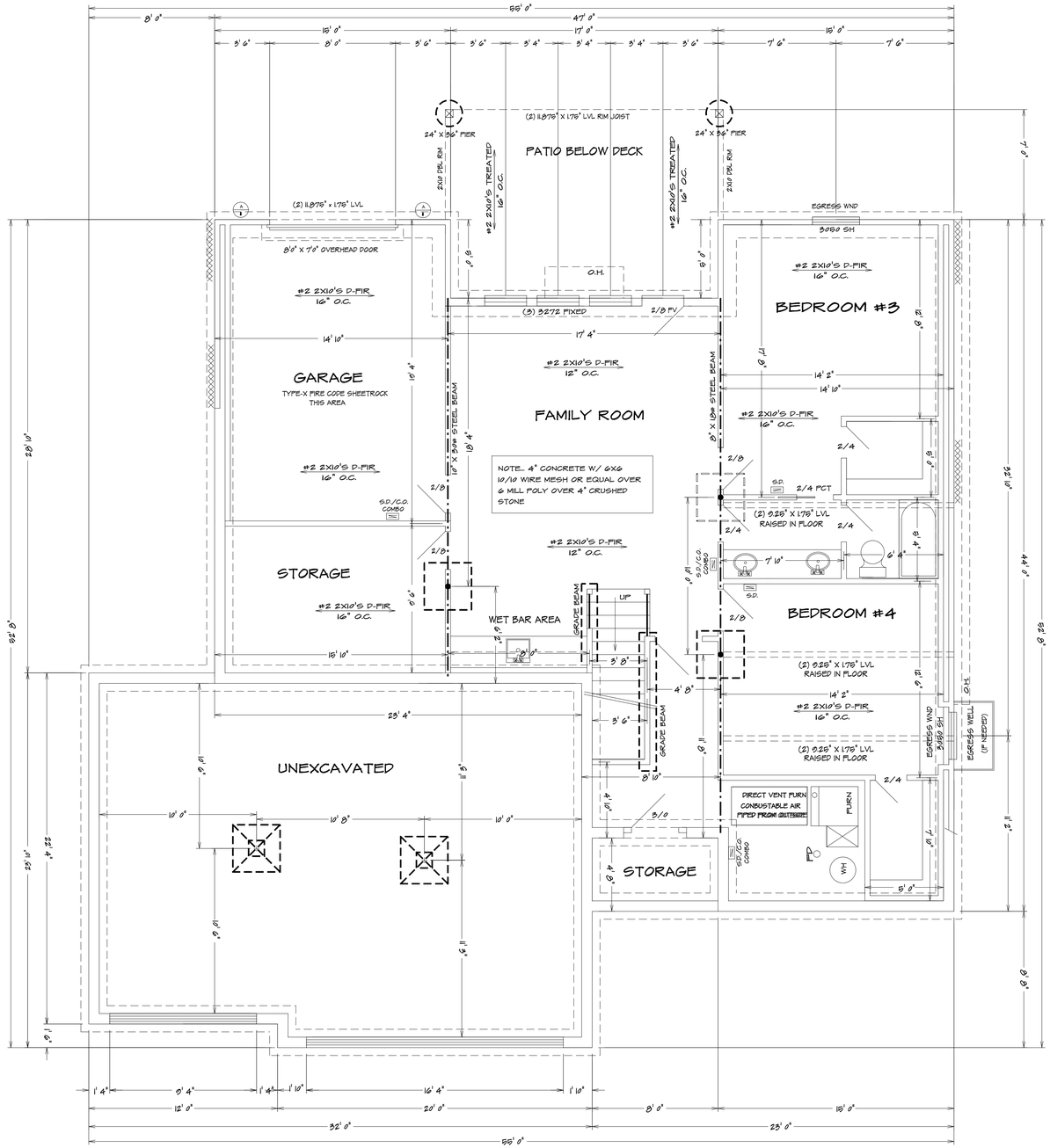


REBAR MAY BE BROUGHT UP DIRECTLY THROUGH THE CONCRETE. PROVIDED IT IS SLEEVED AND COMES UP INSIDE THE BUILDING

I. 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

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)



BASEMENT PLAN

1/4" = 1'0"

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

KH-6105 (THE CYPRESS) LOT 128

SHEET NO.	2
APPROX. SQ.FT.	
PLAN NO.	KH-6105
FILE NAME:	6109 BSMT
DATE DRAWN:	
DATE REVISED:	
DESIGNER:	
PHONE:	
PHONE:	
LOT NO.	
HOME BUYER:	
BUILDER:	
SUB-DIVISION:	

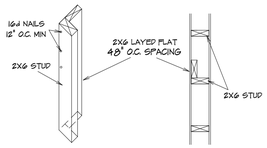
BUILDER/CONTRACTOR IS RESPONSIBLE TO CHECK ALL DIMENSIONS FOR ACCURACY BETWEEN FLOORS, FOUNDATION, AND ELEVATIONS ALSO VERIFY ALL BEAM, HEADERS, PAD LOCATIONS, AND COLUMN SIZES. BUILDER/CONTRACTOR TO CHECK FOR COMPLIANCE WITH CONTRACTS, CITY, AND NATIONAL CODES. BUILDER/CONTRACTOR ACCEPTS ALL RESPONSIBILITY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

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



EXTERIOR TALL WALL SECTION

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

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 FLY
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.

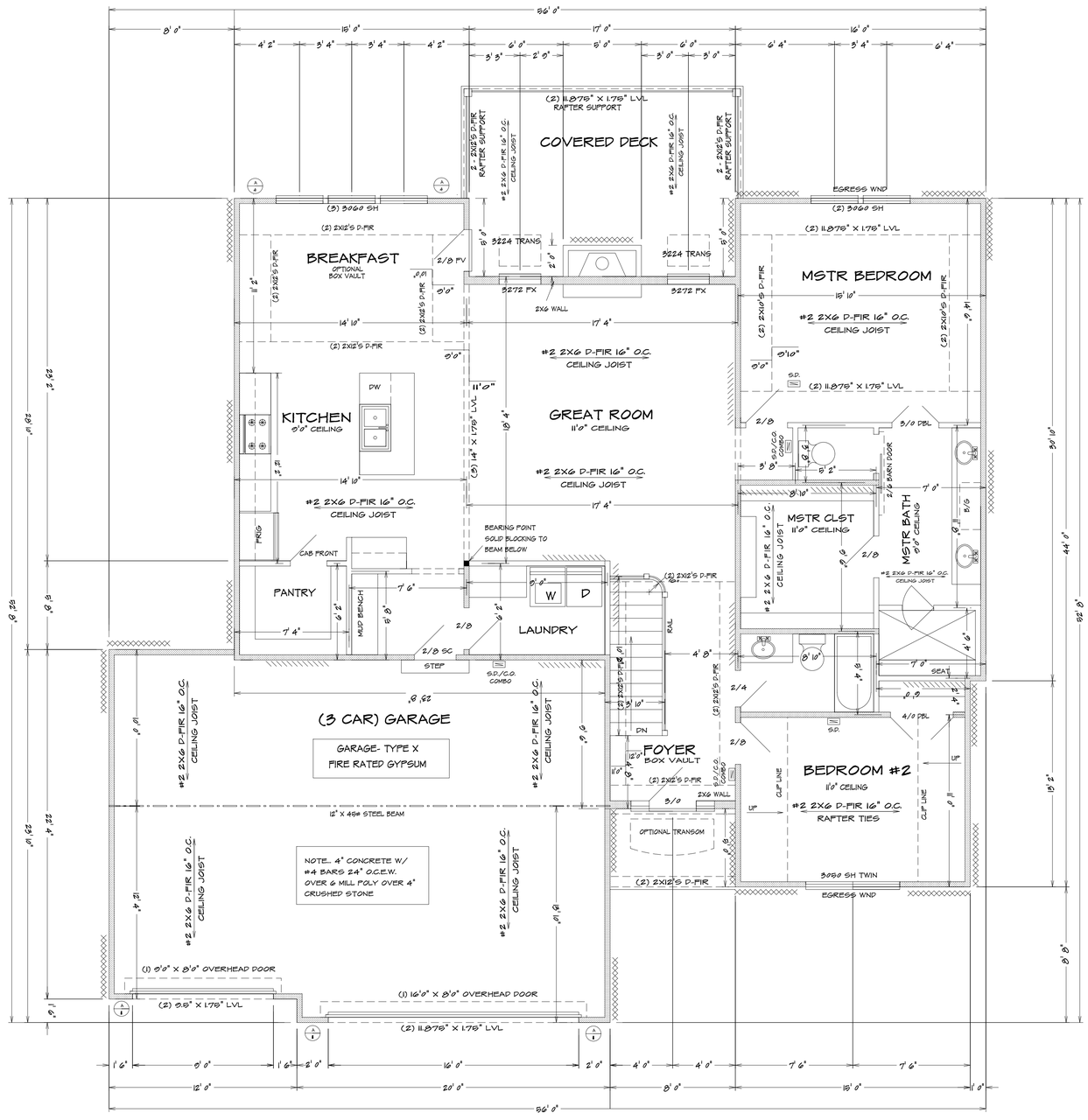
R312.2| Window sills.
In dwelling units, where the opening of an operable window is located more than 72 inches (1829 mm) above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which 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.

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.



BEARING WALL

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

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

KH-6105 (THE CYPRESS) LOT 128

PHONE:	DATE DRAWN:	PLAN NO. KH-6105	SHEET NO. 5
PHONE:	DATE REVISED:	FILE NAME: 6105 FLR1	APPROX. SQFT.
LOT NO.	DESIGNER:	SUB-DIVISION:	HOME BUYER:
			BUILDER:

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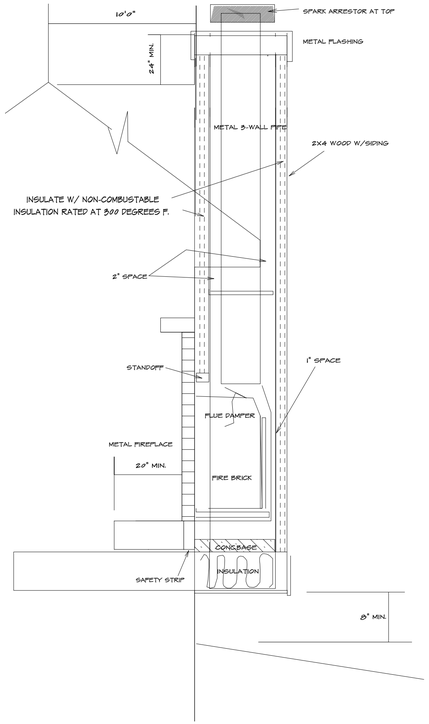
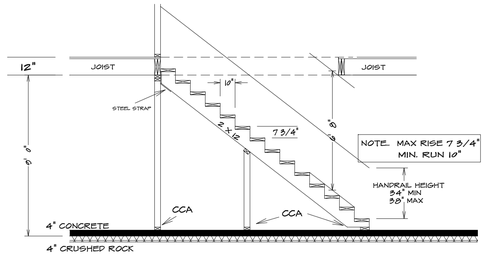
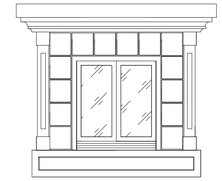


TYPICAL METAL FIRE PLACE

NOTE..SEE SPECS FOR SPECIFIC APPLICATIONS.



STAIR SECTION (TYP)



TYPICAL F.P. FRONT

EMERGENCY EGRESS

1. PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MIN. OPENABLE AREA OF 5.7 SQ. FT. WITH A MIN. OPENABLE HEIGHT OF 24" AND WIDTH OF 20"

ELECTRICAL OUTLETS

1. ALL OUTLETS TO BE BRANCH 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 RECEP. TO BE TAMPER RESISTANT

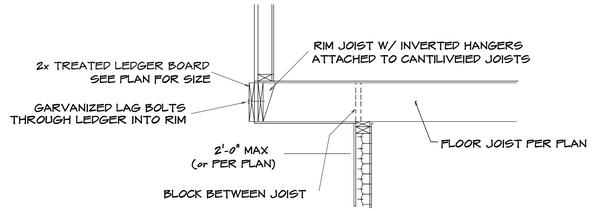
GARAGE

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

GLAZING

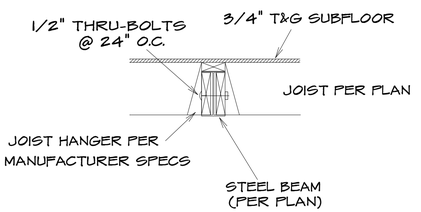
GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE APPROVED SAFTY GLAZING MATERIALS: GLASS IN STORM DOORS, INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 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"

TYPICAL FRAMING DETAILS (Not to Scale)

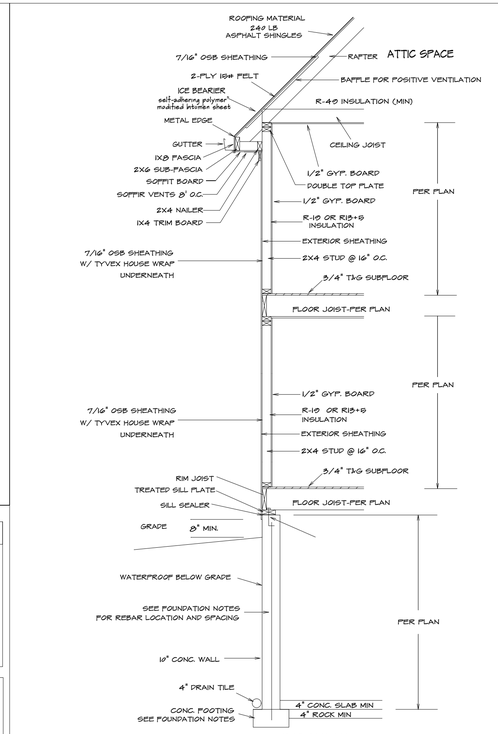


DECK JOIST SPAN	1/2" 0 LAG SPACING	EQUIVALENT SPACING FOR 16" O.C. JOIST BAYS
UP TO 10'-0"	16" O.C.	N/A
10'-0" -14'-0"	12" O.C.	16" OC. DBL. EVERY OTHER
14'-0" -18'-0"	8" O.C.	16" OC. DBL. EVERY JOIST BAY

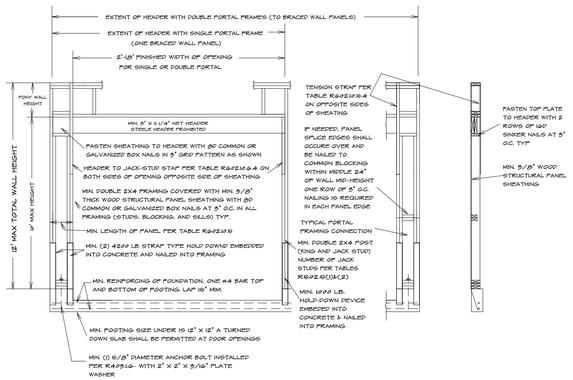
TYPICAL CANTILEVER FRAMING W/ DECK ATTACHMENT



UPSET STEEL BEAM/JOIST CONNECTION



TYPICAL WALL SECTION



A ALTERNATE BRACED WALL PANEL
R602.10.3.3 Method PFH: Portal frame with hold-downs

BRACED WALLS:

METHOD WSP (R602.10.2 2012 IRC): MIN. 7/16" APA RATED WITH 8d NAILS @ 6" AND 12"

METHOD GB (R602.10.2 2012 IRC) : MIN. 1/2" GYPSUM BOARD WITH NO. 6 1-1/4" TYE W OR S SCREWS @ 7" O.C. EDGES AND WALL (4'-0" LONG, BOTH FACES OF WALL

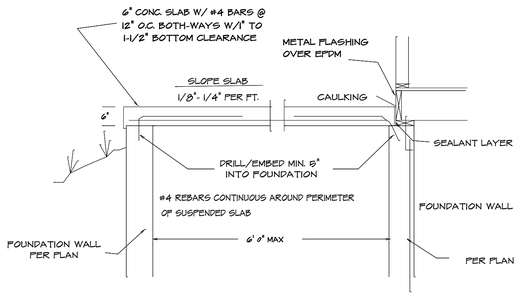
A/1 ALTERNATE BRACED WALL PANEL R602.10.3.3 Method PFH: Portal frame with hold-downs

A/2 ALTERNATE BRACED WALL PANEL . R602.10.3.4 Method PFG: at garage door openings in Seisms Design Categories A, B and C

A/3 ALTERNATE BRACED WALL PANEL . R602.10.3.2 Method ABW: Alternate braced wall panels

A/4 ALTERNATE BRACED WALL PANEL . R602.10.3.4 Method CS-PF: Continuously sheathed portal frame

1. PROVIDE SOLID BLOCKING ABOVE AND BELOW ALL BRACED WALL LINES WHERE FRAMING ABOVE OR BELOW RUNS PERPENDICULAR TO THE BRACING. THE BRACED WALL SOLE PLATE AND TOP PLATE SHALL BE FASTENED TO BLOCKING (NO PARALLEL FRAMING MEMBER WHERE PROVIDED) WITH (3) 16d NAILS @ 16" O.C.
3. SIMPSON STHD14 HOLD-DOWN STRAPS MAY BE SUBSTITUTED WITH SIMPSON PHD2 HOLD-DOWNS AND A 6/8" ANCHOR ROD DRILLED AND EPOXIED A MIN. 7" INTO THE FOUNDATION



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 CONTINUIUS BEARING AT THE EDGES OF SLAB
5. PORCH SLAB GREATER THEN 6' SHALL BE TREATED AS AN ELEVATED GARAGE SLAB

INSULATION NOTES:

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

EXTERIOR FRAMED WALLS	(R13 OR R15+8)
FLOOR OVER HEATED SPACE	R13
FLOOR OVER OUTSIDE AIR	R13
ATTIC - BLOWN IN	R49
CATHEDRAL CEILING	R30

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 the section for carbon monoxide alarms and NFPA 72, 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.

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)

FRAMING NOTE

1. ALL LUMBER SIZES ARE FOR #2 D-FIR-LARCH
2. ALL HEADERS TO BE MIN. (2) #2-2X10
3. BLOCK CANTILEVERS, DOOR JAMBS, AND OVER BEAMS
4. ALL HEADRS TO BEAR ON MIN. OF (2) 2X4 STUDS
6. JOIST UNDER BEARING PARTITIONS SHALL BE DOUBLED AND COMPLY WITH IRC SEC. R502.6
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 25 P.S.F. ROOF SNOW LOAD (MIN)
10. MIN 25 YR ASPHALT SHINGLES
11. RAFTER TIES SHALL NOT BE REQUIED WHEN A STRUCTURAL RIDGE HAS BEEN PROVIDED AND APPROPRIATELY DESIGNED (AS IN A FULLY VAULTED ROOM) SUCH SHALL BE NOTED AS "STRUCTURAL" ON THE PLAN PER IRC SEC R323

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.

R302.5.1 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-minute fire-rated doors, equipped with a self-closing device.

TYPICAL DETAILS

SHEET NO. 4 | APPROX. SQ.FT.

PLAN NO. KH-6105 | FILE NAME: 6105 SEC1

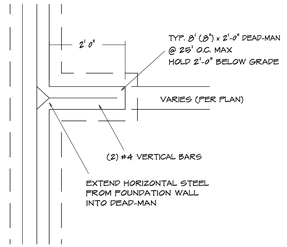
DATE DRAWN: | DATE REVISED: | DESIGNER:

PHONE: | PHONE: | LOT NO.

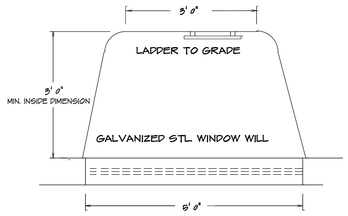
HOME BUYER: | BUILDER: | SUB-DIVISION:

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 PLANS. BUILDER&CONTRACTOR AND HOME OWNER ACCEPTS RESPONSIBILITY FOR ANY AND ALL CHANGES, ADDITIONS, OR REDESIGNS TO OTHER COPYRIGHTED PLANS. BUILDER&CONTRACTOR ACCEPTS RESPONSIBILITY FOR ANY AN SITE CHANGES MADE TO STRUCTURE.

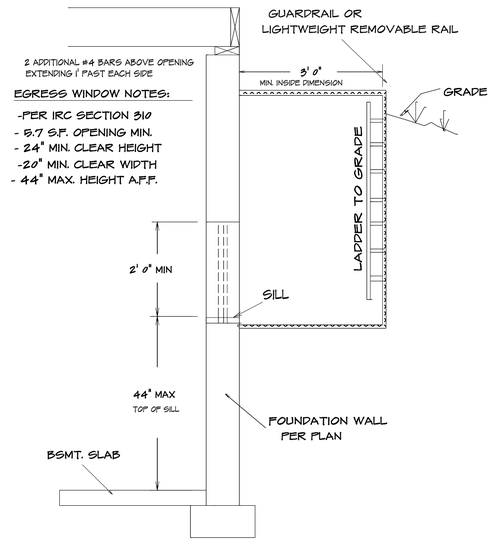
STATE OF MISSOURI
AARON DELANO OBERMEYER
NUMBER PE-2008019580
PROFESSIONAL ENGINEER



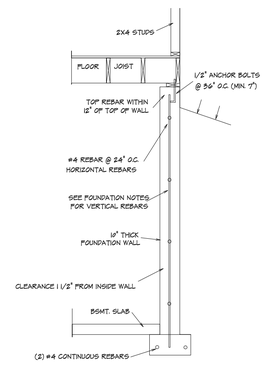
TYPICAL DEAD-MAN SECTION



TYPICAL EGRESS WINDOW PLAN SECTION



TYPICAL EGRESS WINDOW SECTION DETAIL



TYPICAL FOUNDATION WALL

FOUNDATION NOTES:

FND WALL REINFORCEMENT (CLASS 60 SOIL,
EXCEPT FOR RARE CIRCUMSTANCES)
(ALL REBARS TO BE GRADE 40)

8' WALL W/ 8' BACKFILL VERT. #4 REBARS @ 12" O.C.
8' WALL W/ 7' BACKFILL VERT. #4 REBARS @ 18" O.C.
SET ON A 16" X 8" CONCRETE FOOTER WITH (2) #4 REBARS CONTINOUS.

10' WALL W/ 9' BACKFILL VERT. #4 REBARS @ 8" O.C.
10' WALL W/ 8' BACKFILL VERT. #4 REBARS @ 12" O.C.
SET ON A 20" X 12" CONCRETE FOOTER WITH (2) #4 REBARS CONTINOUS.

HORIZ #4 REBARS @ 24" O.C.

8" X 4'-0" CONCRETE WALL WITH (3) #4 REBARS HORIZ AND WITH #4 REBARS @ 24" O.C. VERTICALLY

CONCRETE FLOOR - 4" CONCRETE ON 4" CRUSHED ROCK.

CONCRETE GARAGE FLOOR - 4" CONCRETE ON 4" CRUSHED ROCK WITH 6X6 10/10 WIRE MESH.
(SUSPENDED GARAGE FLOORS TO BE DESIGNED BY LICENCED ENGINEER)

COLUMN FOOTING FOR MIN. SOIL LOAD OF 1500 PSF

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

CONCRETE GRADE PADS - 16" X 8" WITH (2) #4 REBARS CONTINUOS.

ALL FOOTINGS SHALL EXCEED A MINIMUM FROST DEPTH OF 36 INCHES BELOW GRADE.

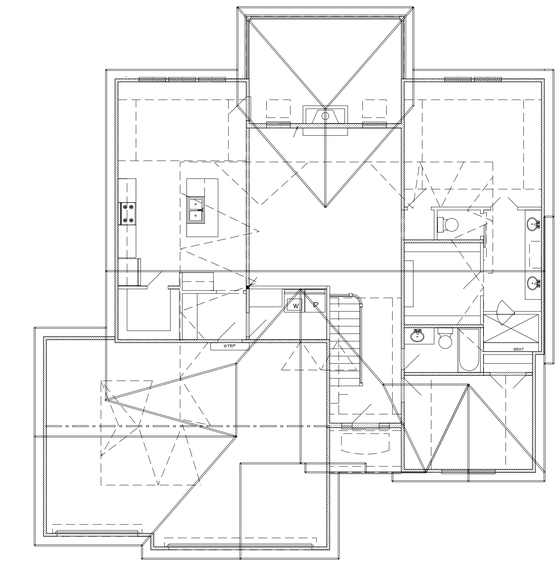
MAXIMUM DEPTH OF UNBALANCED FILL IS (7 FEET) FOR 8-INCH WALL AND (8 FEET) FOR TEN-INCH WALL.

WATERPROOF CONCRETE WALL FROM FOOTING TO GRADE LINE.

OPTIONAL WALK-OUT WALL
16" X 36" CONCRETE FROST FOOTER W/ (3) #4 REBARS PARALLEL, 12" O.C. CONTINOUS.
#4 REBAR VERT. BENT INTO FLOOR 7'0" @ 24" O.C.

BELOW GRADE USE 4" OF CONCRETE ON 4" CRUSHED ROCK WITH 6 MIL-POLY OVER CRUSHED ROCK BELOW GRADE.

DRAINAGE TILES, GRAVEL OR CRUSHED STONE DRAINS, PERFORATED PIPE OR OTHER APPROVED SYSTEMS OR MATERIALS SHALL BE INSTALLED AT OR BELOW THE AREA TO BE PROTECTED AND SHALL DISCHARGE BY GRAVITY OR MECHANICAL MEANS INTO AN APPROVED DRAINAGE SYSTEM.
GRAVEL OR CRUSHED SONE DRAINS SHALL EXTEND AT LEAST 1 FOOT BEYOND THE OUTSIDE EDGE OF THE FOOTING AND 6 INCHES ABOVE THE TOP OF THE FOOTING AND BE COVERED WITH AN APPROVED FILTER MEMBRANE MATERIAL. THE TOP OF OPEN JOINTS OF DRAIN TILES SHALL BE PROTECTED WITH STRIPS OF BUILDING PAPER, AND DRAINAGE TILES OR PERFORATED PIPE SHALL BE PLACED ON A MINIUM OF 2 INCHES OF WASHED GRAVEL OR CRUSHED ROCK AT LEAST ONE HALF SUCH SIZE LARGER THAN THE TILE JOINT OPENING OR PERFORATION AND COVERED WITH NOT LESS THAN 6 INCHES OF THE SAME MATERIAL.



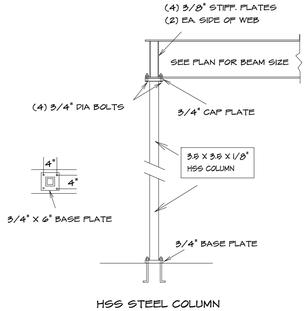
BEARING WALL

ROOF ELEVATION

1/8" = 1'0"

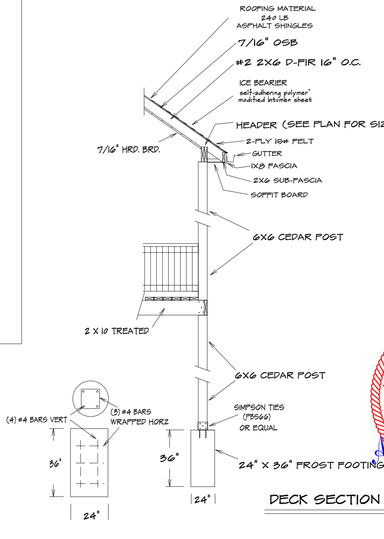
NOTE.. HIP RIDGE FOR THE MAIN ROOF AS:
2X8 #2 D-FIR FOR UNBRACED LENGTH UP TO 5'0"
2X10 #2 D-FIR FOR UNBRACED LENGTH UP TO 10'0"
2X12 #2 D-FIR FOR UNBRACED LENGTH UP TO 12'0"

ALL RAFTERS TO BE #2 2X6 D-FIR 16" O.C.
UNLESS OTHER WISE NOTED
FURLINGS TO BE EQUAL TO RAFTER OR GREATER
FURLING TO BE SUPPORTED TO BEARING WALL LINES
WITH SUPPORTS SPACED 4'0" O.C. MAX FOR 2X6 FURLING
6'0" O.C. MAX FOR 2X8 FURLING
8'0" O.C. MAX FOR 2X10 FURLING
CONNECT RAFTERS TO CEILING JOIST W (4) 16d GALV. NAILS
CONNECT RAFTERS TO RIDGE, VALLEY, AND HIP RIDGE
WITH (4) 16d GALV. NAILS



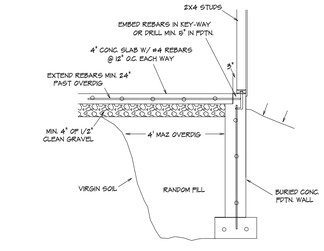
HSS STEEL COLUMN

N.T.S.

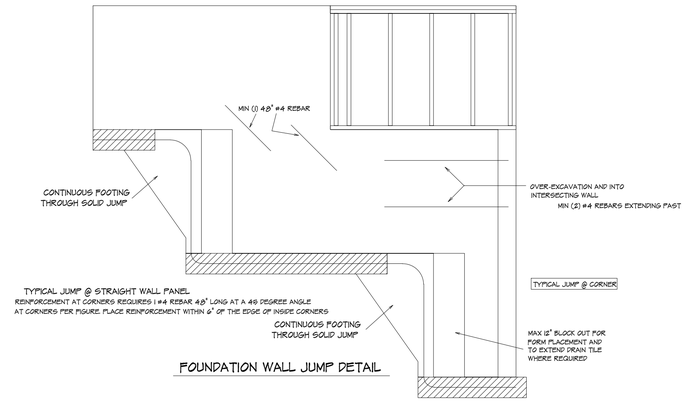


DECK SECTION

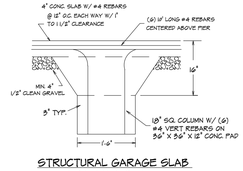
BUILDER/CONTRACTOR IS RESPONSIBLE TO CHECK ALL DIMENSIONS FOR ACCURACY BETWEEN FLOORS, FOUNDATION, AND ELEVATIONS. ALSO VERIFY ALL BEAM, HEADERS, PAD LOCATIONS, AND COLUMN SIZES. BUILDER&CONTRACTOR TO CHECK FOR COMPLIANCE WITH CONTRACTS, CITY, AND NATIONAL CODES. BUILDER&CONTRACTOR ACCEPTS ALL RESPONSIBILITY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



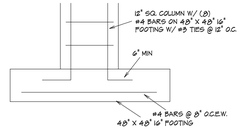
TYPICAL OVERDIG @ SLAB



FOUNDATION WALL JUMP DETAIL



STRUCTURAL GARAGE SLAB
PIER PAD DETAIL



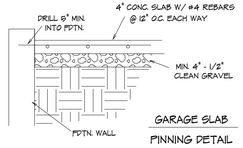
PEDESTAL AT FOOTING

REQUIRED FOOTING:

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.

Table No. R-5.9.5.3
MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE

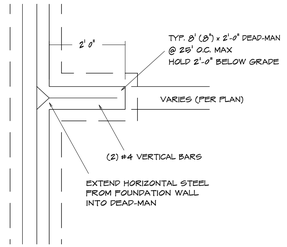
TYPE OR LOCATION OF CONCRETE CONSTRUCTION	MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f'c) for Weathering Potential*		
	Negligible	Moderate	Severe
Basement walls and foundations not exposed to the weather	2,500	2,500	2,500
Basement slabs and interior slabs on grade, except garage floor slabs	2,500	2,500	2,500
Basement walls, foundation walls, exterior walls and other vertical concrete work exposed to the weather	2,500	3,000	3,000**
Porches, carport slabs and steps exposed to the weather, and garage floor slabs	2,500	3,000	3,000**



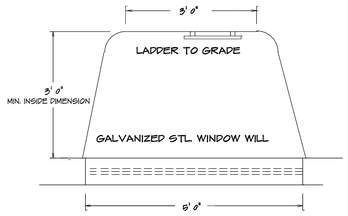
GARAGE SLAB
PINNING DETAIL

SHEET NO.	6
APPROX. SQ.FT.	
PLAN NO.	KH-6108
FILE NAME:	6108 SEC2
DATE DRAWN:	
DATE REVISED:	
PHONE:	
PHONE:	
DESIGNER:	
LOT NO.	
HOME BUYER:	
BUILDER:	
SUB-DIVISION:	

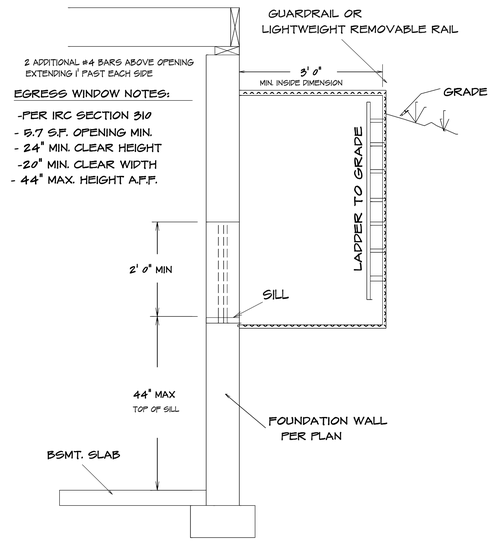
STATE OF MISSOURI
AARON DELANO
OBERMEYER
NUMBER
PE-2010019580
PROFESSIONAL ENGINEER
Aaron D. Obermeyer 2-5-20



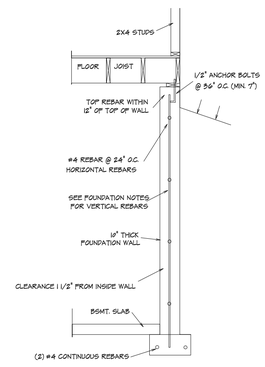
TYPICAL DEAD-MAN SECTION



TYPICAL EGRESS WINDOW PLAN SECTION



TYPICAL EGRESS WINDOW SECTION DETAIL



TYPICAL FOUNDATION WALL

FOUNDATION NOTES:

FND WALL REINFORCEMENT (CLASS 60 SOIL.
EXCEPT FOR RARE CIRCUMSTANCES)
(ALL REBARS TO BE GRADE 40)

8" WALL W/ 8' BACKFILL VERT. #4 REBARS @ 12" O.C.
8" WALL W/ 7' BACKFILL VERT. #4 REBARS @ 12" O.C.
SET ON A 16" X 8" CONCRETE FOOTER WITH (2) #4 REBARS CONTINOUS.

10" WALL W/ 9' BACKFILL VERT. #4 REBARS @ 8" O.C.
10" WALL W/ 8' BACKFILL VERT. #4 REBARS @ 12" O.C.
SET ON A 20" X 12" CONCRETE FOOTER WITH (2) #4 REBARS CONTINOUS.

HORIZ #4 REBARS @ 24" O.C.

8' X 49" CONCRETE WALL WITH (3) #4 REBARS HORIZ AND WITH #4 REBARS @ 24" O.C. VERTICALLY

CONCRETE FLOOR - 4" CONCRETE ON 4" CRUSHED ROCK.

CONCRETE GARAGE FLOOR - 4" CONCRETE ON 4" CRUSHED ROCK WITH 6X6 10/10 WIRE MESH.
(SUSPENDED GARAGE FLOORS TO BE DESIGNED BY LICENCED ENGINEER)

COLUMN FOOTING FOR MIN. SOIL LOAD OF 1500 PSF

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OPTIONAL WALK-OUT WALL
16" X 24" CONCRETE FROST FOOTER W/ (3) #4 REBARS PARALLEL. 12" O.C. CONTINOUS.
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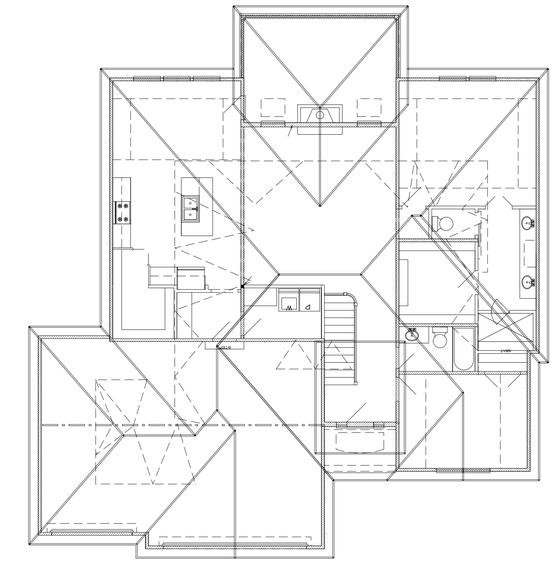

BEARING WALL

ROOF ELEVATION

1/8" = 1'0"

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

ALL RAFTERS TO BE #2 2X6 D-FIR 16" O.C.
UNLESS OTHER WISE NOTED
FURLINGS TO BE EQUAL TO RAFTER OR GREATER
FURLING TO BE SUPPORTED TO BEARING WALL LINES
WITH SUPPORTS SPACED 4'0" O.C. MAX FOR 2X6 FURLING
6'0" O.C. MAX FOR 2X8 FURLING
8'0" O.C. MAX FOR 2X10 FURLING
CONNECT RAFTERS TO CEILING JOIST W (4) 16d GALV. NAILS
CONNECT RAFTERS TO RIDGE, VALLEY, AND HIP RIDGE
WITH (4) 16d GALV. NAILS

HOME BUYER:		SHEET NO.	6
BUILDER:	PLAN NO. KH-6108	FILE NAME: 6108 SEC2	APPROX. SQ.FT.
SUB-DIVISION:	DESIGNER:	DATE REVISED:	DATE DRAWN:
LOT NO.	PHONE:	PHONE:	PHONE:

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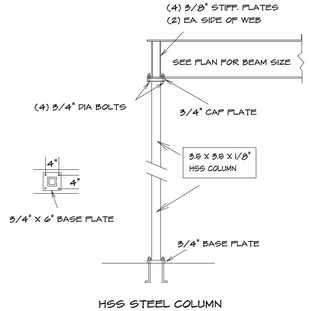
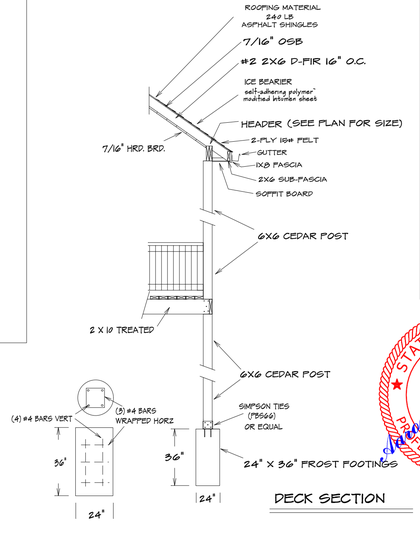
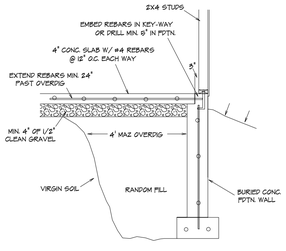


HSS STEEL COLUMN

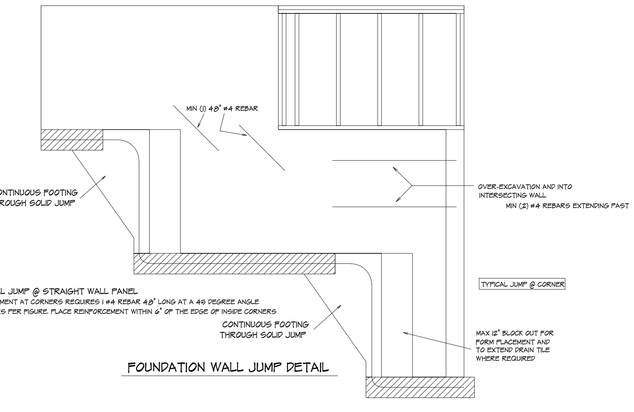
N.T.S.



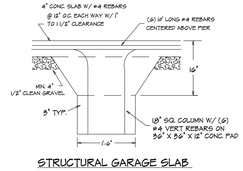
DECK SECTION



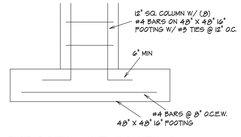
TYPICAL OVERDIG @ SLAB



FOUNDATION WALL JUMP DETAIL



STRUCTURAL GARAGE SLAB
PIER PAD DETAIL



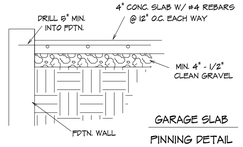
PEDESTAL AT FOOTING

REQUIRED FOOTING:

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.

Table No. R-5.5.2.3
MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE

TYPE OR LOCATION OF CONCRETE CONSTRUCTION	SPECIFIED COMPRESSIVE STRENGTH (f'c), psi (MPa) at 28 days, for Weathering Potential[1]		
	Negligible	Moderate	Severe
Basement walls and foundations not exposed to the weather	2,500	3,000	3,000
Basement slabs and interior, slab-on-ground, garage floor slabs	2,500	3,000	3,000
Basement walls, foundation walls, exterior walls and other vertical concrete work exposed to the weather	2,500	3,000	3,000[2]
Porches, carport slabs and steps exposed to the weather, and garage floor slabs	3,500	3,000[3]	3,000[2][3]



GARAGE SLAB
PINNING DETAIL