



RELEASE FOR CONSTRUCTION  
AS NOTED FOR PLAN REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
12/06/2021

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STATE OF MISSOURI  
DANIEL J. WEBSTER  
REGISTERED ARCHITECT  
NUMBER A-5400  
10/15/2021

DRAWN BY: KF, MP  
DATE: 10-13-21  
PROJECT NO: 21-015-01

SHEET NO.  
**A0**



FLOOR PLAN - SYMBOL LEGEND	
DESCRIPTION	SYMBOL
INTERIOR LOAD BEARING WALL	
STONE OR BRICK VENEER	
JOIST SIZE AND DIRECTION	
HEADER/ BEAM	SIZE OF MEMBER PER SCHEDULE
NUMBER OF FLYS	U" IF UPSET
CENTERLINE	
POINT LOAD	
APPROX. WINDOW FRAME SIZE IN INCHES (SEE GENERAL NOTES BELOW)	
SMOKE ALARM	
SMOKE & CARBON MONOXIDE ALARM	

HEADER / BEAM SCHEDULE			
MARK	LUMBER SIZE	CRIPPLE STUDS	TRIMMERS
(A)	2 x 6	1	1
(B)	2 x 8	1	1
(C)	2 x 10	1	1
(D)	2 x 12	2	1
(E)	3/4" x 1 1/4" L.V.L.	2	1
(F)	3/4" x 3/2" L.V.L.	2	1
(G)	3/4" x 1 1/8" L.V.L.	2	1
(H)	3/4" x 1 1/4" L.V.L.	2	1
(J)	3/4" x 1 1/2" L.V.L.	3	1
(K)	3/4" x 1 1/2" L.V.L.	3	1
(L)	3/4" x 3/2" L.S.L.	1	1
(M)	3/4" x 1 1/8" L.S.L.	2	1

1. BEAMS SHALL HAVE TOTAL NUMBER OF CRIPPLES AND TRIMMERS UNDER EACH END. SOLID BLOCK BELOW.

2. FOR L.V.L. BEAMS IN 2X10 FLOORS, USE 3/4" L.V.L.

FLOOR JOIST SCHEDULE					
MARK	TYPE	SUB-TYPE	SIZE	SPACING	MAX. SPAN
FJ-1	"I" JOIST (SEE NOTE)		9 1/2"	PER MANUFACTURER	
FJ-2	"I" JOIST (SEE NOTE)		11 7/8"	PER MANUFACTURER	
FJ-3	"I" JOIST (SEE NOTE)		14"	PER MANUFACTURER	
FJ-4	OPEN WEB TRUSSES		14"	PER MANUFACTURER	
FJ-5	OPEN WEB TRUSSES		16"	PER MANUFACTURER	
FJ-20	LUMBER	ACQ. TREATED	2x10	12" O.C.	16'-2"
FJ-21	LUMBER	ACQ. TREATED	2x10	16" O.C.	14'
FJ-22	LUMBER		2x8	12" O.C.	14'-2"
FJ-23	LUMBER		2x8	16" O.C.	12'-1"
FJ-24	LUMBER		2x10	12" O.C.	17'-9"
FJ-25	LUMBER		2x10	16" O.C.	15'-5"
FJ-26	LUMBER		2-2x10	16" O.C.	

NOTE: DESIGN I-JOISTS (LOADED W/ TOTAL LIVE AND DEAD LOAD) WITH A MAX. DEFLECTION OF L/360, EXCEPT BELOW BATHROOMS AND TILED AREAS WHERE THE DEFLECTION SHALL BE L/480 MAX.

CONCRETE WALL SCHEDULE				
MARK	CONCRETE WALL THICKNESS	REINFORCING HEIGHT	VERTICAL GRADE 40	HORIZONTAL
(A)	8"	4' OR LESS	*4% AT 36" O.C.	2 - *4%
(B)	8"	4' TO 6'	*4% AT 36" O.C.	3 - *4%
(C)	8"	6' TO 8'	*4% AT 16" O.C.	4 - *4%
(D)	8"	8'	*4% AT 16" O.C.	4 - *4%
(E)	8"	9'	*4% AT 12" O.C.	5 - *4%
(F)	10"	4'	*4% AT 36" O.C.	2 - *4%
(G)	10"	8'	*4% AT 36" O.C.	4 - *4%
(H)	10"	9'	*4% AT 16" O.C.	5 - *4%
(I)	10"	10'	*4% AT 12" O.C.	6 - *4%

COLUMN & PAD SCHEDULE				
MARK	PAD SIZE	#4 BARS REQ'D EACH WAY	COLUMN SIZE (SCHEDULE 40)	MAX. LOAD
(A)	36"x36"x12"	6	3"	15.5 K
(B)	48"x48"x16"	8	3"	24.0 K
(C)	60"x60"x18"	10	3.5"	37.5 K
(D)	72"x72"x18"	12	5"	54.0 K

PIER SCHEDULE			
MARK	PIER DIAMETER	FOOT (ACQ OR CEDAR UNO)	MAX. LOAD
(F)	12"	6x6 UNO.	11 K
(G)	18"	6x6 UNO.	2.6 K
(H)	24"	6x6 UNO.	4.1 K

1. PAD AND PIER SIZES ASSUME 1500 P.S.F. SOIL BEARING CAPACITY.

2. 10' MAX. STEEL COLUMN HEIGHT FROM BASE PLATE TO TOP OF COLUMN. CONSULT ARCHITECT IF SITE CONDITIONS REQUIRE TALLER COLUMNS.

#### GENERAL NOTES:

A. EXTERIOR FRAMED WALLS ARE 2x4 STUDS AT 16" O.C. UNLESS NOTED OTHERWISE.

B. FURNACE IS DIRECT VENT AND USES OUTSIDE AIR FOR COMBUSTION

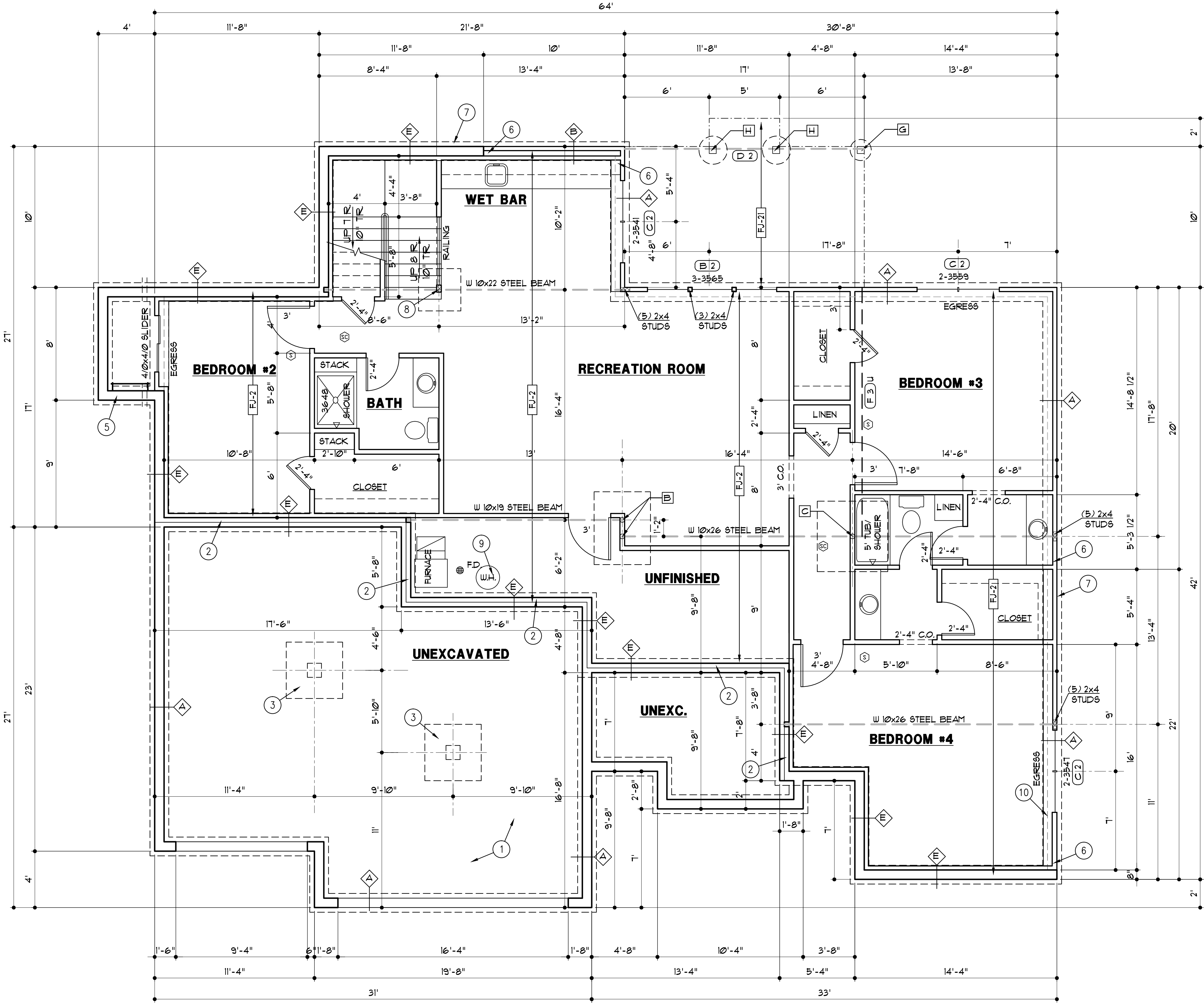
C. FOR COVERED DECK FRAMING - SEE DETAIL 1/G3

D. FOR UNFINISHED SPACES PROVIDE FIRE PROTECTION USING 1/2" GYPSUM WALLBOARD (IRC SEC. R302.13)

E. SEE G4 SHEET FOR LOCATION OF HOLD-DOWN TIES FOR BRACED WALL PANELS

#### FOUNDATION PLAN NOTES

- SEE DETAIL 3/G2 FOR GARAGE SLAB CONSTRUCTION.
- GILL PLATE SET BACK - SEE DETAIL 4/G2
- CONCRETE PIER AND PAD - SEE DETAIL 3/G2
- RETURN WALL - SEE DETAIL 8/G2
- CONCRETE WINDOW WELL - SEE DETAIL 9/G2



- DROP TOP OF FOUNDATION WALL PER FINAL GRADE
- STEP FOUNDATION & FOOTING AS REQUIRED BY SITE
- 4 STUDS FOR BEARING ON COLUMN TYPE "A" PAD
- PROVIDE THERMAL EXPANSION CONTROL DEVICE.
- LEDGE OVER CONCRETE AND WALL

THESE DRAWINGS TO BE USED FOR THIS ADDRESS ONLY AND THEY SHALL NOT BE USED AS MASTER PLAN

## FOUNDATION PLAN

1/4" = 1'-0"

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1/4" = 1'-0"

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FLOOR PLAN - SYMBOL LEGEND	
DESCRIPTION	SYMBOL
INTERIOR LOAD BEARING WALL	
STONE OR BRICK VENEER	
JOIST SIZE AND DIRECTION	
HEADER/ BEAM	
SIZE OF MEMBER PER SCHEDULE	
HEADER/ BEAM SCHEDULE	
NUMBER OF FLYS	
"U" IF UPSET	
CENTERLINE	
POINT LOAD	
APPROX. WINDOW FRAME SIZE IN INCHES (SEE GENERAL NOTES BELOW)	
SMOKE ALARM	
SMOKE & CARBON MONOXIDE ALARM	

HEADER / BEAM SCHEDULE			
MARK	LUMBER SIZE	CRIPPLE STUDS	TRIMMERS
(A)	2 x 6	1	1
(B)	2 x 8	1	1
(C)	2 x 10	1	1
(D)	2 x 12	2	1
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(G)	3/4" x 1 3/8" L.V.L.	2	1
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(J)	3/4" x 1 1/2" L.V.L.	3	1
(K)	3/4" x 1 1/2" L.V.L.	3	1
(L)	3/4" x 1 1/2" L.V.L.	1	1
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2. FOR L.V.L. BEAMS IN 2X10 FLOORS, USE 3/4" L.V.L.

FLOOR JOIST SCHEDULE					
MARK	TYPE	SUB-TYPE	SIZE	SPACING	MAX. SPAN
FJ-1	"I" JOIST (SEE NOTE)		9 1/2"	PER MANUFACTURER	
FJ-2	"I" JOIST (SEE NOTE)		11 7/8"	PER MANUFACTURER	
FJ-3	"I" JOIST (SEE NOTE)		14"	PER MANUFACTURER	
FJ-4	OPEN WEB TRUSSES		14"	PER MANUFACTURER	
FJ-5	OPEN WEB TRUSSES		16"	PER MANUFACTURER	
FJ-20	LUMBER	ACQ. TREATED	2x10	12" O.C.	16'-2"
FJ-21	LUMBER	ACQ. TREATED	2x10	16" O.C.	14'
FJ-22	LUMBER		2x8	12" O.C.	14'-2"
FJ-23	LUMBER		2x8	16" O.C.	12'-1"
FJ-24	LUMBER		2x10	12" O.C.	17'-9"
FJ-25	LUMBER		2x10	16" O.C.	15'-5"
FJ-26	LUMBER		2-2x10	16" O.C.	

NOTE: DESIGN I-JOISTS (LOADED W/ TOTAL LIVE AND DEAD LOAD) WITH A MAX. DEFLECTION OF L/360, EXCEPT BELOW BATHROOMS AND TILED AREAS WHERE THE DEFLECTION SHALL BE L/480 MAX.

CEILING JOISTS SCHEDULE - LIVE LOAD 10 P.S.F.				
MARK	SIZE	SPACING	MAXIMUM SPAN - DOUGLAS FIR #2	
CJ-1	2x6	12"	19'-6"	
CJ-2	2x6	16"	17'-8"	
CJ-3	2x8	12"	25'-8"	
CJ-4	2x8	16"	23'-0"	
CJ-5	2x10	12"	26'-0"	
CJ-6	2x10	16"	26'-0"	
CJ-7	2x4	24"	9'-10"	
CJ-8	2x6	24"	14'-10"	
CJ-9	2x8	24"	18'-9"	
CJ-10	2x10	24"	22'-11"	

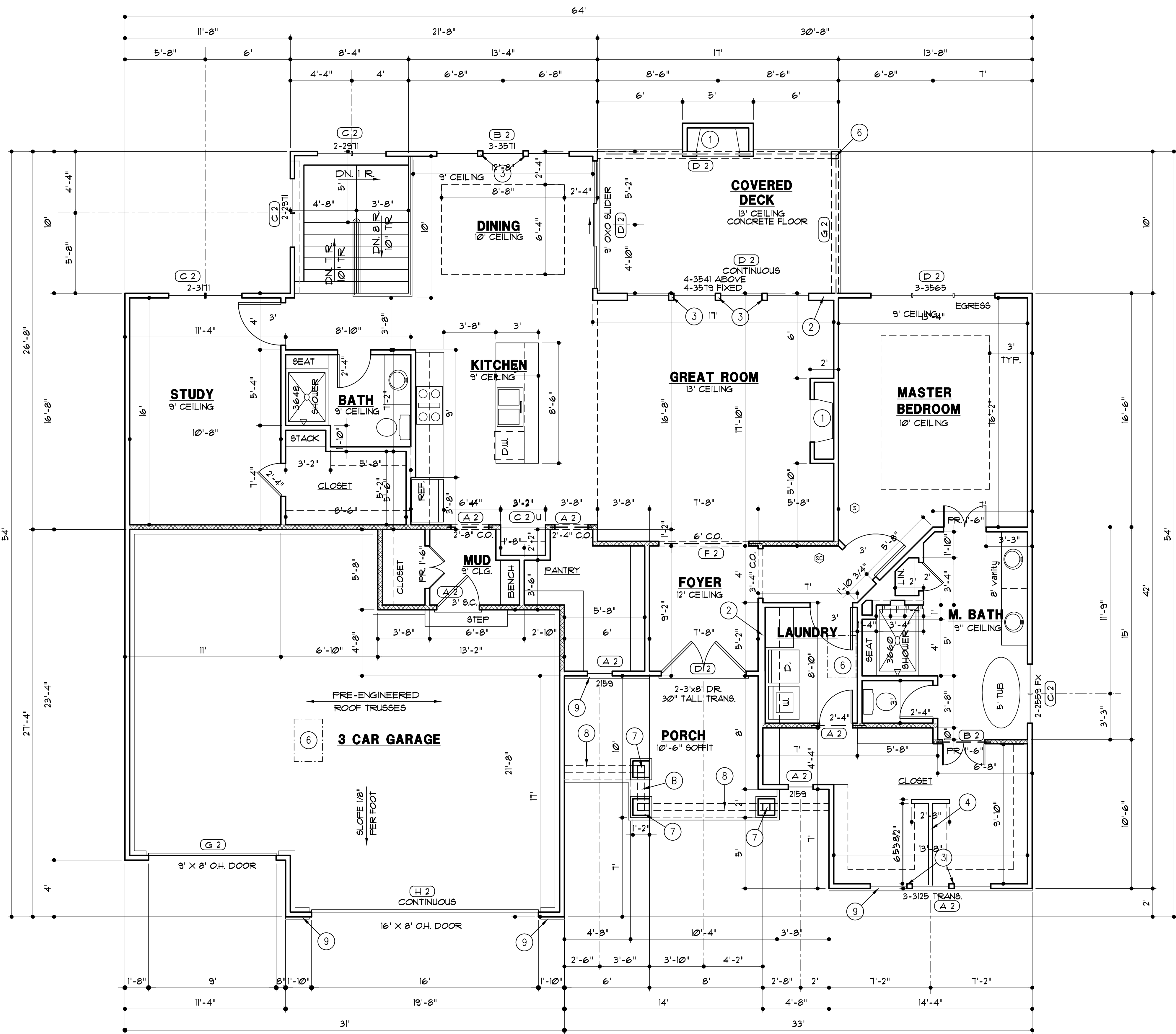
SQUARE FOOTAGE TABLE	
LOCATION	AREA (S.F.)
FIRST FLOOR	1872
BASEMENT (FINISHED)	1690
TOTAL	3562
GARAGE	726
BASEMENT (UNFINISHED)	190
FRONT PORCH	127
COVERED DECK	170

#### GENERAL NOTES:

- A. EXTERIOR WALLS ARE 2x4 STUDS AT 16" O.C. UNLESS OTHERWISE NOTED.
- B. SOLID BLOCKING BELOW STUDS SUPPORTING BEAMS AND HEADERS.
- C. FOR COVERED PATIO FRAMING - SEE DETAIL 1/G3

#### FLOOR PLAN NOTES

1. 36" GAS FIREPLACE
2. 2x6 STUDS AT 16" O.C.
3. 3 STUDS BETWEEN WINDOWS
4. 5'-6" TALL WALL
5. 1'-10"x3' ATTIC ACCESS
6. 6x6 CEDAR POST
7. 6x6 CEDAR POST INSIDE 14" SQ. BASE WITH MANUFACTURED STONE VENEER
8. 6x12 CEDAR BEAM
9. MANUFACTURED STONE VENEER



#### FIRST FLOOR PLAN

1/4" = 1'-0"

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**A2**  
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ROOF PLAN LEGEND	
DESCRIPTION	SYMBOL
RIDGES AND HIPs	_____
VALLEYS	_____
EAVES, RAKE & GABLE	_____
HOUSE WALLS	_____
FURLIN	_____
TOP OF FURLIN STRUT OR RIDGE POLE	○
BOT. OF FURLIN STRUT OR RIDGE POLE	○
JOIST SIZE AND SPACING	RJ-X
UPLIFT VALUE	000"

ROOF RAFTER SCHEDULE				
MARK	SIZE	SPACING	MAXIMUM SPAN	
			FLAT CEILING	VAULTED CEILING
RJ-1	2x6	12"	16'-1"	14'-9"
RJ-2	2x6	16"	14'-4"	12'-9"
RJ-3	2x6	24"	11'-9"	10'-5"
RJ-4	2x8	12"	21'-0"	18'-8"
RJ-5	2x8	16"	18'-2"	16'-2"
RJ-6	2x8	24"	14'-10"	13'-2"
RJ-7	2x10	12"	25'-8"	22'-9"
RJ-8	2x10	16"	22'-5"	19'-9"
RJ-9	2x10	24"	18'-2"	16'-1"
RJ-10	2x12	16"	25'-9"	26'-5"
RJ-11	2x12	24"	18'-2"	22'-10"

GENERAL NOTES:

A. THE ROOF STRUCTURE IS PRE-ENGINEERED ROOF TRUSSES UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT THE TRUSS DRAWINGS FOR REVIEW PRIOR TO SUBMITTING TO THE LOCAL AUTHORITY HAVING JURISDICTION AND BEFORE INSTALLATION. FAILURE TO SUBMIT THE TRUSS DRAWINGS SHALL RELIEVE THE ARCHITECT OF ALL LIABILITY FOR THE ENTIRE PLAN BECAUSE TRUSS LOADS AND TRANSFER PATHS ARE ASSUMED LOADS AND CAN ONLY BE VERIFIED UPON REVIEW OF THE TRUSS SHOP DRAWINGS.

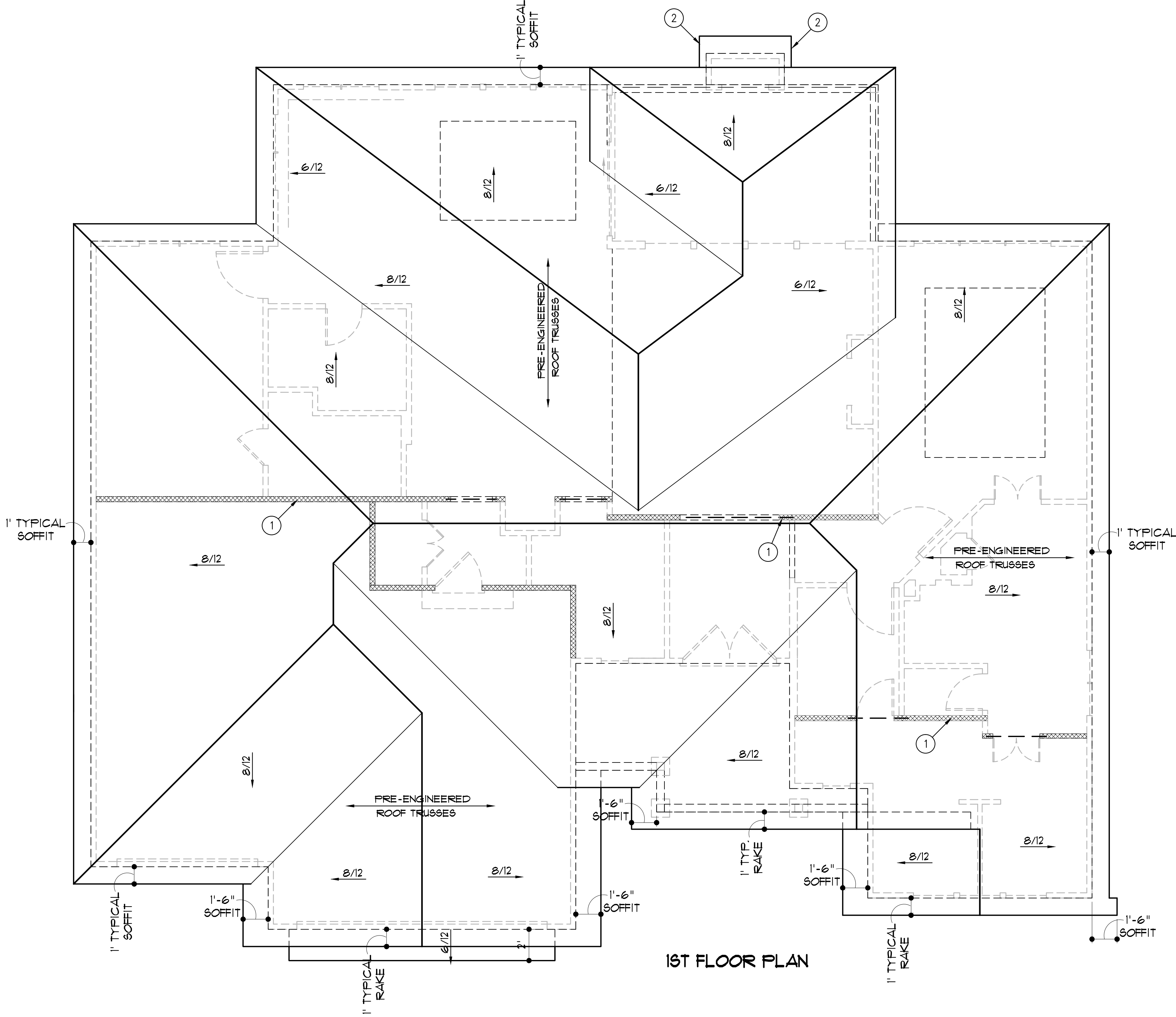
B. TRUSSES SHALL BE DESIGNED FOR 20 PSF SNOW LOAD, 10 PSF TOP CHORD DEAD LOAD, 10 PSF BOTTOM CHORD LIVE LOAD, AND 5 PSF BOTTOM CHORD DEAD LOAD. ALLOWABLE LOAD BEARING WALLS ARE NOTED ON THE PLANS.

C. ALL GIRDER TRUSSES SHALL BEAR ON A MINIMUM OF (4) 2x4 (8.0 K MAX. LOAD, 10' TALL MAX.) OR (3) 2x6 (14.5 K MAX. LOAD, 10' TALL MAX.) STUDS

D. ATTACH EACH END OF SINGLE-PLY TRUSSES TO TOP PLATE WITH STRONG-DRIVE SDWC SCREW (610 LB. UPLIFT) OR SIMPSON H2BA. ATTACH GIRDER TRUSSES TO TOP PLATE WITH CONNECTOR RATED FOR TRUSS DESIGNER'S CALCULATED UPLIFT LOAD (SEE ENGINEERED TRUSS DRAWINGS)

ROOF PLAN NOTES

- BEARING WALL OR BEAM BELOW
- TIGHT BARGE SOFFIT



ROOF PLAN

1/4" = 1'-0"

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**A3**

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GENERAL NOTES

A. ROOFING TO BE COMPOSITION-40 YR ON 30" FELT ON 1/16" O.S.B. SHEATHING

B. REAR AND SIDES TO BE 3/8" MIN. STRUCTURAL WOOD PANEL SIDING, "SMART PANEL" SIDING OR EQUAL, INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE 1/2" FLASHING BETWEEN VERTICAL PANELS. 1x4 SMART TRIM AT ALL CORNERS AND AROUND WINDOWS.

ELEVATION NOTES

1. SMART LAP SIDING WITH 6" EXPOSURE AND 5/4x4 SMART TRIM AT CORNERS, DOORS AND WINDOWS

2. VERTICAL BOARD & BATTEN SIDING WITH 4" TRIM AT CORNERS, WINDOWS AND SOFFIT

3. MANUFACTURED STONE

4. STANDING SEAM METAL ROOF

5. 8"x24" DECORATIVE GABLE VENT

6. 214 D.H. WINDOW

7. 6x12 CEDAR BEAMS

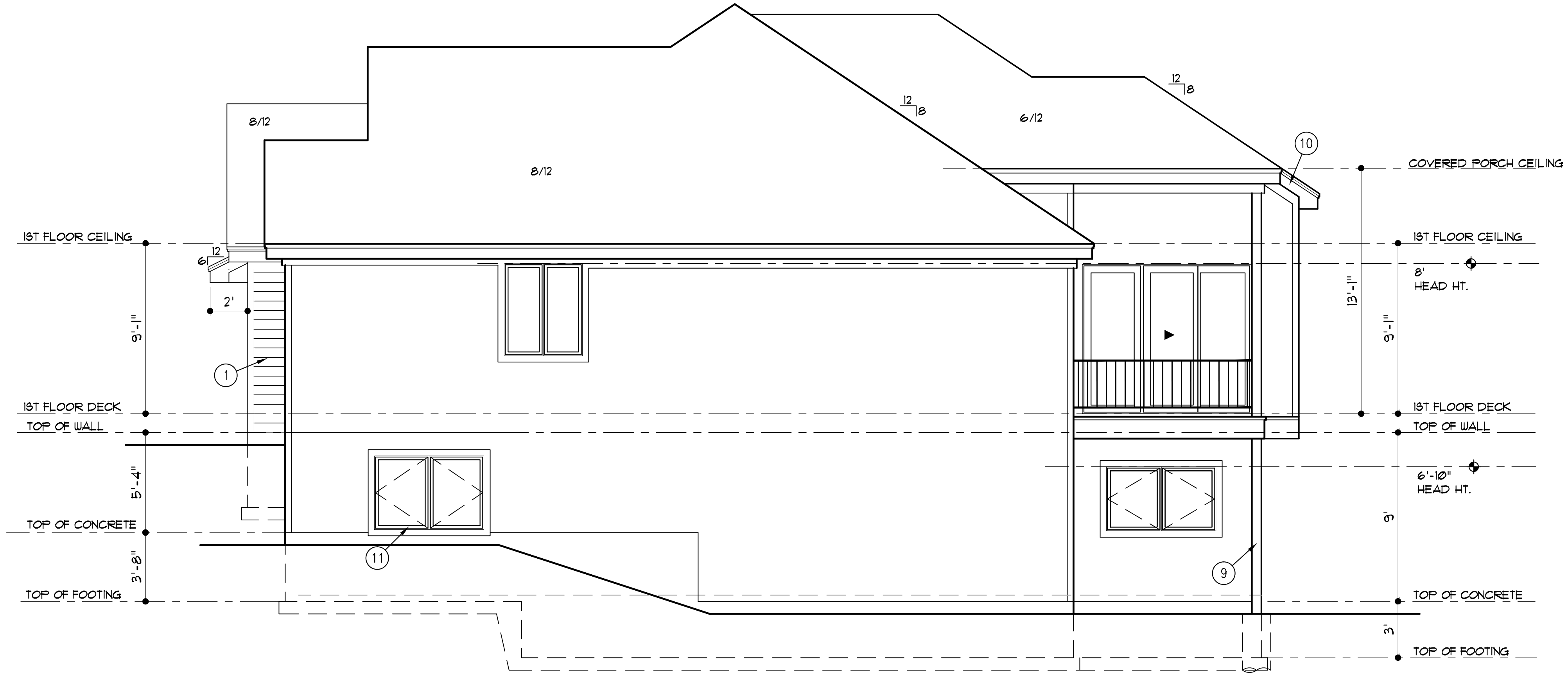
8. 6x6 CEDAR POST INSIDE 14" SQ. BASE WITH MANUFACTURED STONE VENEER

9. 6x6 CEDAR POST

10. TIGHT BARGE

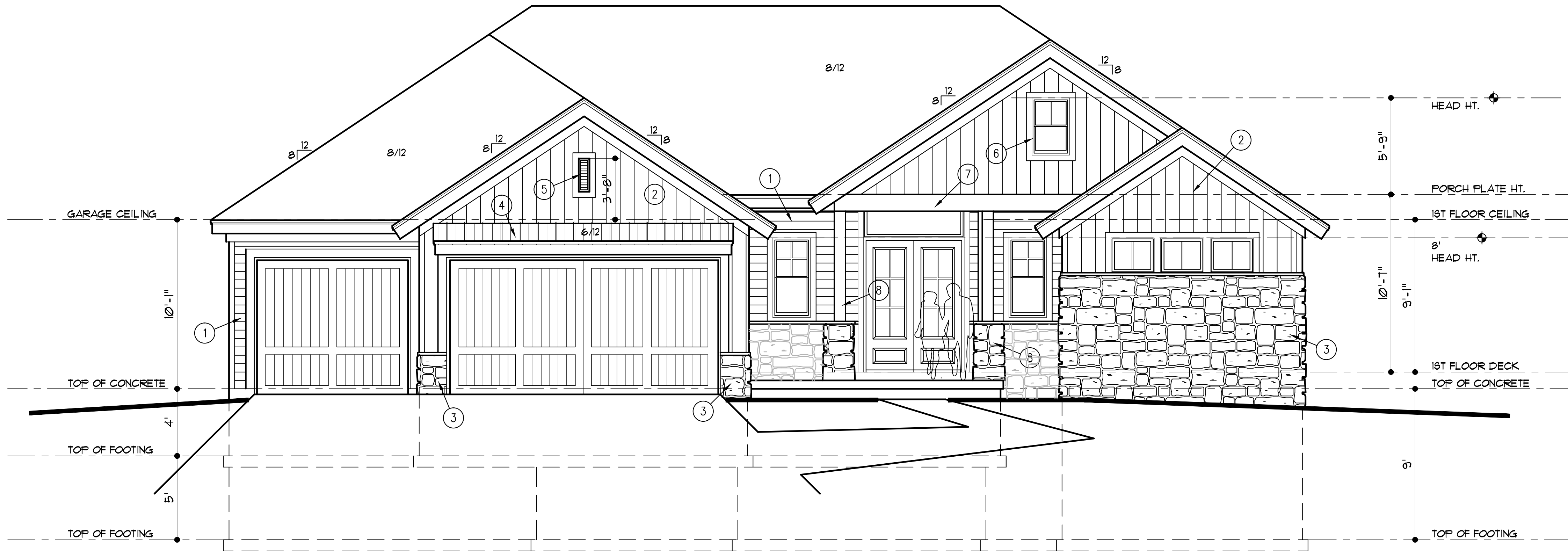
11. MAXIMUM 44" FROM FINISH FLOOR TO OPERABLE PORTION OF EGRESS WINDOW

12. CONCRETE EGRESS WINDOW WELL. WINDOW SET AT MAX. 44" FROM FINISH FLOOR TO SILL



RIGHT SIDE ELEVATION

1/4" = 1'-0"



FRONT ELEVATION

1/4" = 1'-0"

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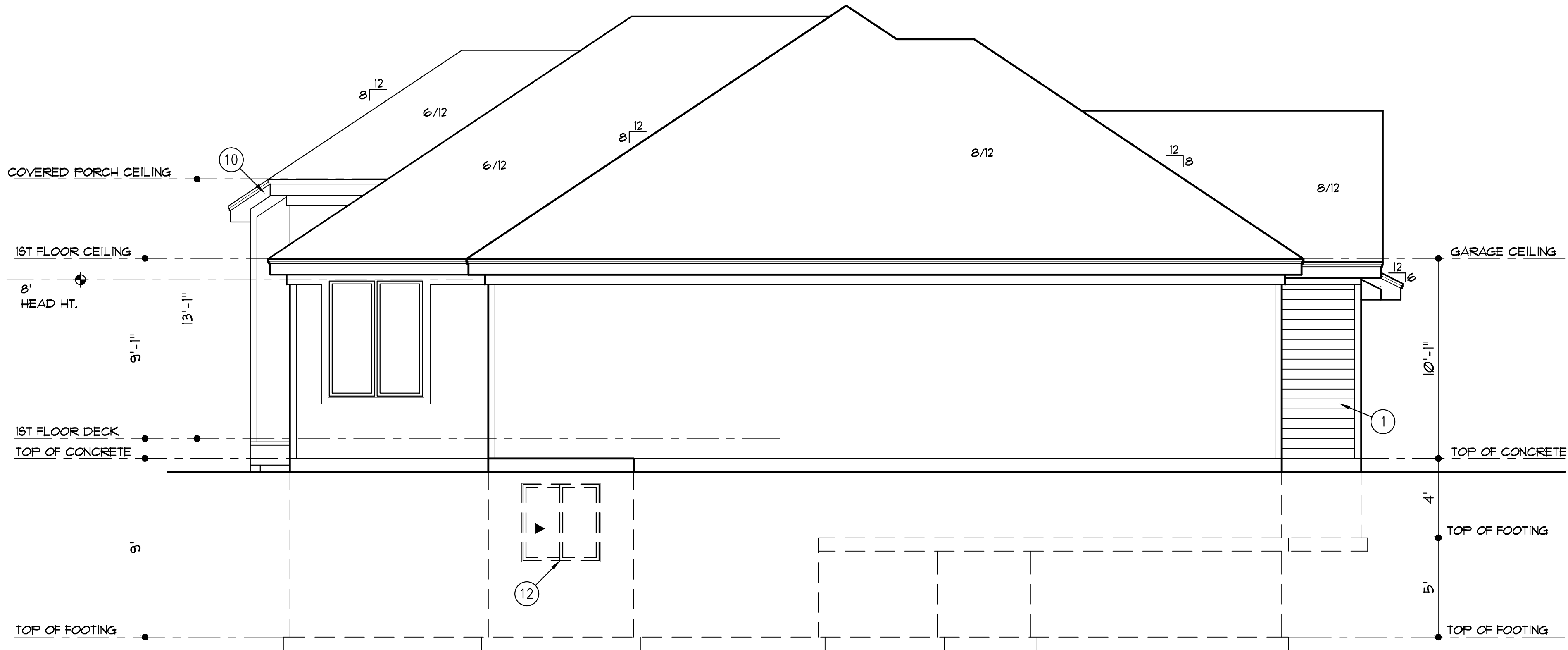


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REAR ELEVATION

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12/06/2021



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ABBREVIATIONS

AFF.	ABOVE FINISH FLOOR
C.C.A.	CHROMATED COPPER ARSENATE
C.J.	CONTROL JOINT
CLG.	CEILING
C.O.	CASED OPENING
D.	DRYER
D.H.	DOUBLE HUNG
DIA.	DIAMETER
DN.	DOWN
D.W.	DISHWASHER
E.J.	EXPANSION JOINT
EQ.	EQUAL
F.D.	FLOOR DRAIN
GA.	GAUGE OR GAGE
GFI	GROUND FAULT CIRCUIT INTERRUPTER
H.B.	HOSE BIB
HT.	HEIGHT
K.S.	KNEE SPACE
LB. (*)	POUND
L.V.L.	LAMINATED VENEER LUMBER
MAX.	MAXIMUM
MIN.	MINIMUM
MICRO.	MICROWAVE OVEN
O.C.	ON CENTER
O.H.	OVERHEAD/ OVERHANG
FR.	PAIR
R.	RISER
REF.	REFRIGERATOR
RY.	ROUGH
R.O.	ROUGH OPENING
S.F.	SQUARE FEET
SIM.	SIMILAR
SQ.	SQUARE
T.	TREAD
T.C.	TRASH COMPACTOR
T.V.	TELEVISION
TYP.	TYPICAL
W.	WASHER
W/	WITH
W.C.	WALK IN CLOSET
WH.	WATER HEATER
WJF.	WELDED WIRE FABRIC

LOAD AND DEFLECTION LIMITATIONS

AREA	CONDITION	MIN. LOADS (P&F)	
		LIVE	DEAD
DECKS	-	40	10
CEILING JOISTS	NO STORAGE	10	10
CEILING JOISTS	STORAGE ALLOWED	20	10
FLOORS	NON-SLEEPING SLEEPING AREAS	40 30	10 (20 FOR TILED FLRS *) 10 (20 FOR TILED FLRS *)
ROOFS	WOOD OR COMPOSIT. TILE OR CONCRETE	20 20	10 (20 IN LEAWOOD) 20
STAIRS	-	40	10
HANDRAIL/ GUARDRAIL		200*	IN ANY DIRECTION

NOTE:  
- WIND SPEED 115 MPH (CATEGORY AS DEFINED BY R3012.1.4)  
\* TILE FLOOR LOAD BASED ON THINSET METHOD.

BUILDING INSULATION SCHEDULE

OPENING MAXIMUM U-VALUE		
WINDOWS		32
OPAQUE DOORS		20
GLASS DOORS		35
SKYLIGHT		55
GLAZED PENESTRATION SKGC		40
BUILDING COMPONENT MINIMUM R-VALUE		
CEILING		
	WITH ATTIC	49
	CATHEDRAL	30
WALL		
	EXTERIOR (CAVITY or CAVITY / CONTINUOUS)	20 or 13 + 5
	BASEMENT ( CAVITY or EXTERIOR )	13 or 10
	CRAWL SPACE	10 / 13
FLOORS		
	SLABS FOR 2' DEPTH ON FOUNDATION/	10
	TRENCH FOOTINGS - HEATED SLAB	15
	TRENCH FOOTINGS	10
	OVER UNHEATED SPACES	19
	OVER OUTSIDE AIR	30
DUCTS IN UNHEATED SPACES - SUPPLY AND RETURN		8
DUCTS IN UNHEATED SPACES - IN FLOOR AND CEILING ASSEMBLY		6
HOT WATER SYSTEM PIPING		3
FURNACE (AFUE)		80% MINIMUM
AIR CONDITIONING (SEER)		13 MINIMUM

CODE COMPLIANCE

A. BUILDING CONSTRUCTION: REGARDLESS OF WHAT IS SHOWN ON THE PLANS, THE BUILDING SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE AND ANY OTHER CITY REQUIREMENTS.

B. FOUNDATION WALLS ARE DESIGNED TO COMPLY WITH THE JOHNSON COUNTY FOUNDATION GUIDELINES.

C. BUILDING DESIGNED FOR SEVERE CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA OF WEATHERING CONDITIONS, MODERATE TO SEVERE TERMITHE CONDITIONS, MODERATE DECAY CONDITIONS, 6 DEGREES FAHRENHEIT AND 5333 HEATING DEGREE DAYS WINTER DESIGN TEMPERATURE CONDITION: 36 INCHES FROST LINE DEPTH CONDITIONS AND FLOOD HAZARDS BASED UPON THE LATEST ADOPTED FIRJM. AND F.B.F.M. DOCUMENTS IN ACCORDANCE WITH L.B.C. ARTICLE 4-905.

GENERAL NOTES

A. GLASS: PROVIDE SAFETY GLAZING WHERE REQUIRED BY IRC E3302 AND IN THE FOLLOWING LOCATIONS: 1. STORY DOORS, 2. INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARC OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR, 3. WALLS ENCLOSEING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR, 4. ENCLOSURES FOR HOT TUBS, SAUNAS, STEAM ROOMS, SPAS, BATH TUBS, SHOWERS AND WHIRLPOOLS, 5. FIXED OR OPERABLE PANELS EXCEEDING 9 SQUARE FOOT AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR AND WALKING SURFACE WITHIN 36"

B. EXTERIOR WINDOWS AND DOORS SHALL BE DESIGNED TO RESIST WIND LOADS SPECIFIED IN IRC TABLE R3012(4)A. EXTERIOR OVERHEAD DOORS SHALL MEET D.A.S.M.A. 115 MPH REQUIREMENTS.

C. BEDROOM EGRESSE: AT LEAST ONE WINDOW FROM EACH BEDROOM AND FROM THE BASEMENT SHALL HAVE AN OPERABLE AREA OF 5.7 SQUARE FEET WITH A MINIMUM OPERABLE HEIGHT OF 24" AND A WIDTH OF 21" AND WITH THE BOTTOM OF THE OPERABLE PORTION NO MORE THAN 44" AFF. WINDOWS WHOSE SILL IS 12" OR MORE ABOVE FINISHED GRADE AND WHOSE SILL IS LESS THAN 24" ABOVE FINISHED FLOOR SHALL HAVE WINDOW GUARDS OR OPENING CONTROL DEVICES WHICH RESTRICT A 4" SPHERE FROM PASSING THRU.

D. STAIRWAYS: MAXIMUM RISE 7 1/4", MINIMUM RUN 10", MINIMUM HEADROOM 6' 8". MINIMUM WIDTH 36". HANDRAILS ARE REQUIRED WHEN STAIRS HAVE 4 OR MORE RISERS. HANDRAIL TO HAVE ENDS RETURNED OR TERMINATED IN A NEUEL POST OR SAFETY TERMINAL AND PLACED MINIMUM 34" MAXIMUM 38" ABOVE TREAD NOSING. THE HAND GRIP PORTION OF HANDRAIL SHALL BE NOT LESS THAN 1-1/4" NOR MORE THAN 2 5/8" IN CROSS SECTION DIMENSION. HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2" BETWEEN THE WALL AND THE HANDRAIL. INSTALL FIRE BLOCKING AT TOP AND BOTTOM OF STAIR RUN. THE CEILING AND WALLS OF USEABLE SPACE UNDER STAIRS SHALL BE SURFACED WITH 1/2" GYPSUM BOARD, TAPEd AND FINISHED.

E. GUARDRAILS: ALL UNENCLOSED FLOOR AREAS, STAIRS AND EXTERIOR DECKS OVER 30" ABOVE GRADE SHALL HAVE 36" HIGH GUARDRAILS WITH A MAXIMUM OPENING OF 4" BETWEEN BALLUSTERS. BALLUSTERS SHALL NOT CREATE A LADDER.

F. DOOR BETWEEN THE GARAGE AND DUELLING SHALL BE 1 3/8" THICK SOLID WOOD, 1 3/8" THICK MINIMUM SOLID CORE OR HONEY COMBED STEEL DOOR OR 20-MINUTE FIRE RATED, EQUIPPED WITH AUTOMATIC OR SELF-CLOSING DEVICE.

G. ATTACHED GARAGE: WALLS AND CEILING TO BE NOT LESS THAN 1/2" GYPSUM BOARD. CEILINGS AND BEAMS WITHIN THE GARAGE WILL BE COVERED WITH 5/8" TYPE "X" GYPSUM BOARD, IF SPACE ABOVE GARAGE IS LIVING SPACE.

H. BUILDER TO PROVIDE DECK OR LANDING PRIOR TO OWNER OCCUPANCY.

J. CRAWL SPACE: THE MINIMUM NET AREA OF VENTILATION OPENINGS WILL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER-FLOOR AREA. ONE SUCH VENTILATING OPENING WILL BE WITHIN 3 FEET OF EACH CORNER. AN 18"x24" MINIMUM ACCESSORY OPENING SHALL BE PROVIDED TO CRAWL SPACE.

K. ALL EXTERIOR DOORS, INCLUDING THE DOOR BETWEEN THE GARAGE AND THE HOUSE, SHALL INCORPORATE THE PHYSICAL SECURITY PROVISIONS OF SECTION MUNICIPAL CODE OF THE CITY IN WHICH THIS PROJECT IS LOCATED.

MECHANICAL ELECTRICAL NOTES

A. SMOKE DETECTORS: INSTALL ONE IN EACH BEDROOM, OUTSIDE OF EACH BEDROOM AREA, AT LEAST ONE ON EACH STORY INCLUDING THE BASEMENT. ALL ALARMS ARE TO BE INTERCONNECTED SO THAT ACTIVATING ONE ALARM ACTIVATES THEM ALL.

B. CARBON MONOXIDE ALARMS: IN DUELLING UNITS USING FUEL-FIRED APPLIANCES OR IN DUELLING UNITS WITH ATTACHED GARAGES, INSTALL CARBON MONOXIDE ALARMS OUTSIDE EACH SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.

C. GROUND FAULT CIRCUIT INTERRUPTER PROTECTION (GFCI) SHALL BE INSTALLED IN RECEPACLES IN BATHROOMS, KITCHENS, GARAGES, UNFINISHED BASEMENTS, OUTDOORS, CRAWL SPACES, AND WITHIN 6' OF ANY SINK. BATHROOM RECEPACLES REQUIRE SEPARATE 20-AMP CIRCUIT. PROVIDE ARC-FAULT CIRCUIT INTERRUPTERS AS REQUIRED BY IRC E3302.12 OR AS REQUIRED BY MUNICIPALITY.

D. FIREPLACE: FACTORY-BUILT FIREPLACE WILL BE EQUIPPED WITH LISTED COMPONENT FOR OUTSIDE COMBUSTION AIR PER IRC I005 AND SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS

E. ALL BATHROOMS TO RECEIVE EXHAUST FANS -- 50 CFM DIRECTLY TO OUTSIDE. POINT OF DISCHARGE MIN. 3' FROM ANY OPENING.

MECHANICAL, ELECTRICAL NOTES CONT.

F. HEAT PUMP THERMOSTATS MUST PREVENT BACK-UP ELECTRIC RESISTANCE HEAT WHEN THE HEAT PUMP CAN MEET THE LOAD.

G. DUCT SEALING MUST MEET THE REQUIREMENTS OF M 16013.1

H. ELECTRICAL CONDUCTORS SHALL BE COPPER AND THE PANEL BOX SHOULD BE 200 AMP

I. ANY DUCT PENETRATIONS OF THE WALLS OR CEILING SEPERATING THE DUELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF 26 GAUGE SHEET METAL WITH NO OPENINGS IN THE GARAGE.

CONCRETE NOTES

A. CONCRETE: ALL CONCRETE SHALL BE 5-T% AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE STRENGTH AS LISTED BELOW AT 28 DAYS:  
1. BASEMENT AND INTERIOR FLOOR SLABS: 3,000 PSI (2,500 IN LENEXA)  
2. BASEMENT AND FOUNDATION WALLS: 3,000 PSI  
3. PORCHES, CARPORT AND GARAGE FLOOR SLABS: 3,500 PSI

B. REINFORCING SHALL BE GRADE 40. SPLICES SHALL LAP 24" MIN. UNLESS NOTED OTHERWISE.

C. FOOTINGS: FOOTINGS SHALL BEAR ON UNDISTURBED SOIL AND EXTEND A MINIMUM OF 36" BELOW FINISHED GRADE. FOOTINGS UNDER FOUNDATION WALLS SHALL HAVE A MINIMUM WIDTH OF 16" AND A MINIMUM DEPTH OF 8" AND SHALL HAVE 2 #4 BARS CONTINUOUS. TRENCH FOOTINGS SUPPORTING MORE THAN ONE FLOOR SHALL BE A MINIMUM OF 16" WIDE. FOOTINGS SHALL BE CONTINUOUS AROUND THE STRUCTURE AND FROM ONE LEVEL TO THE NEXT. MAXIMUM HORIZONTAL JUMPS FOR FOOTINGS SHALL BE 1'.

D. WALLS: HORIZONTAL BARS SHALL BE PLACED WITH THE TOP BAR WITHIN 8 INCHES OF THE TOP OF THE WALL AND OTHER BARS EQUALLY SPACED. BARS SHALL LAP A MINIMUM 18 INCHES AT ENDS, SPLICES AND AROUND CORNERS. REINFORCEMENT SHALL BE CONTINUOUS AROUND WINDOWS, DOORS AND OTHER OPENINGS WITH SPLICES AS NOTED ABOVE TO MINIMIZE CRACKING AT CORNERS OF THE OPENINGS. BARS SHALL BE PLACED 2" FROM THE INSIDE FACE OF THE WALL.

E. DAMPPROOFING: DAMPPROOFING REQUIRED FOR WALLS ENCLOSEING BASEMENTS OR OTHER HABITABLE SPACE. A MINIMUM OF ONE COAT OF DAMPPROOFING SHALL BE APPLIED TO EXTERIOR WALL SURFACES BELOW GRADE. SEAL TIE HOLES, VOIDS AND HONEYCOMBED AREAS WITH SEALANT BEFORE DAMPPROOFING.

F. WATERPROOFING: WATERPROOFING REQUIRED IN LIEU OF DAMPPROOFING WHERE A HIGH WATER TABLE OR OTHER SEVERE WATER CONDITIONS EXIST.

G. DRAIN TILE: INSTALL CONTINUOUS 4" DRAIN TILE AROUND THE PERIMETER OF ALL FOUNDATIONS ENCLOSEING HABITABLE SPACES LOCATED BELOW GRADE. INSTALL VERTICAL DRAINS TO THE PERIMETER DRAIN TILE AT ALL WINDOW WELLS. SET DRAIN TILE ON A 2" DEEP BY 12" WIDE GRAVEL BED AND COVER TILE WITH AT LEAST 6" OF COARSE, CLEAN ROCK AND A FILTER MEMBRANE MATERIAL. CONNECT THE DRAINS TO A 20-GALLON SUMP FIT OR DRAIN BY GRAVITY TO AN OUTLET WELL AWAY FROM THE HOUSE.

H. FOUNDATION ANCHORAGE: BASEMENT FOUNDATION SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WITH 1/2" ANCHOR BOLTS EMBEDDED AT LEAST 1 INCHES INTO THE CONCRETE AND SPACED NOT MORE THAN 3 FEET ON CENTER AND WITHIN 12 INCHES OF THE END OF EACH PIECE.

I. BEAM POCKETS: RECESSED 4" INTO THE WALL. THE DEPTH AND WIDTH SHALL BE SIZED TO ACCOMMODATE THE DESIGNATED BEAM.

J. FLOOR SLABS: BASEMENT FLOOR SLABS SHALL BE A MINIMUM 4 INCHES THICK AND PLACED ON A 4-INCH GRAVEL BASE. THE BASEMENT FLOOR SHALL BE ISOLATED FROM COLUMN PADS, INTERIOR COLUMNS AND INTERIOR BEARING WALLS. INTERIOR COLUMNS AND BEARING WALLS SHALL BE SUPPORTED ON A SEPARATE INTERIOR FOOTING (NOT ON TOP OF THE FLOOR SLAB). THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS OR SLOPE TO A TRENCH OR UN-TRAPPED DRAIN THAT DISCHARGES DIRECTLY TO THE EXTERIOR ABOVE GRADE. OPTIONAL (EXCEPT IN LEAWOOD) 16 MIL. POLY VAPOR BARRIER SHOULD BE INSTALLED UNDER THE FLOOR SLAB.

GENERAL FRAMING NOTES

A. LUMBER: LUMBER IS #2 OR BETTER DOUGLAS FIR LARCH, EXCEPT FOR DECAY RESISTANT LUMBER WHICH IS SOUTHERN YELLOW PINE #2.

B. ALL EXTERIOR FRAMING LUMBER OR LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE DECAY RESISTANT

C. L.V.L. HEADERS 4 BEAMS ARE TO HAVE A MIN. MODULUS OF ELASTICITY OF 13 x 10 PSI.

D. FLOOR, CEILING AND ROOF OPENINGS: TRIMMER JOISTS SHALL BE DOUBLED WHEN THE HEADER IS SUPPORTED MORE THAN 3 FEET FROM THE TRIMMER JOIST BEARING. TRIMMER AND HEADER JOISTS SHALL BE DOUBLED WHEN THE SPAN OF THE HEADER EXCEEDS 4 FEET. THE ENDS OF HEADER RAFTERS MORE THAN 6 FEET LONG SHALL BE SUPPORTED BY FRAMING ANCHORS OR RAFTER HANGERS UNLESS BEARING ON A BEAM, PARTITION OR WALL.

E. FRAMING AROUND OPENINGS: TRIMMER AND HEADER JOISTS SHALL BE DOUBLED WHEN THE SPAN OF THE HEADER EXCEEDS 4' THE ENDS OF HEADER JOISTS MORE THAN 6 FEET LONG SHALL BE SUPPORTED BY FRAMING ANCHORS OR JOIST HANGERS UNLESS BEARING ON A BEAM, PARTITION, OR WALL.

FRAMING NOTES- FLOORS

A. BEARING: THE ENDS OF EACH JOIST SHALL NOT HAVE LESS THAN 1-1/2 INCHES OF BEARING ON WOOD OR METAL. JOISTS FRAMING INTO BEAMS SHALL BE SUPPORTED BY METAL JOIST HANGERS. JOIST FRAMING FROM OPPOSITE SIDES OF A BEAM, GIRDER OR PARTITION SHALL BE LAPPED AT LEAST 3 INCHES OR STRAPPED TOGETHER. JOISTS UNDER AND PARALLEL TO BEARING PARTITIONS SHALL BE DOUBLED.

B. LATERAL SUPPORT: JOISTS AT SUPPORTS SHALL BE SUPPORTED LATERALLY AT THE ENDS BY FULL-DEPTH SOLID BLOCKING NOT LESS THAN 2" NOMINAL THICKNESS OR BY ATTACHMENT TO A HEADER, BAND OR RIM JOIST OR TO AN ADJOINING STUD OR OTHERWISE PROVIDED WITH LATERAL SUPPORT TO PREVENT ROTATION. WHERE JOISTS ARE PERPENDICULAR TO BRACED WALL LINES, PROVIDE BLOCKING UNDER AND IN-LINE WITH THE BRACED WALL PANEL.

C. DECKING TO BE 3/4" (MIN) PLYWOOD OR ORIENTED STRAND BOARD INSTALLED PERPENDICULAR TO JOISTS.

D. TOP OF WALL SUPPORT CONNECTIONS: WHERE JOISTS RUN PARALLEL TO FOUNDATION WALLS, SOLID BLOCKING FOR A MINIMUM OF 2 JOIST SPACES SHALL BE PROVIDED AT A MAXIMUM OF 4 FEET CENTERS, AND SHALL BE SECURELY NAILED TO THE JOISTS AND FLOORING. IF DUCTS ARE INSTALLED IN THE FIRST JOIST SPACE(S), NAIL 2 BY 4S FLAT AT 4-FOOT CENTERS WITHIN THE JOIST SPACE(S) AND THEN PROVIDE THE SOLID BLOCKING. SECURE EACH 2 BY 4 TO THE SILL PLATE WITH FOUR 10D NAILS.

E. 1" JOISTS (IF USED) SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.

F. PROVIDE BLOCKING OR BRIDGING AT CANTILEVERS.

G. PROVIDE 1/2" DRYWALL ON CEILING OF UNFINISHED SPACES FOR FLOOR FRAMING USING 1" JOISTS OR TRUSSES.

FRAMING NOTES - WALLS

A. SIZE, HEIGHT AND SPACING: UNLESS OTHERWISE NOTED, STUDS SHALL BE 2x4 DPM's SPACED AT 16" O.C.

FOR EXTERIOR WALLS SUPPORTING A ROOF ONLY, 2 x 6 STUDS SPACED 16" O.C SHOULD BE USED FOR ALL WALLS 14' TO 18' TALL AND 2 x 6 STUDS SPACED 12" O.C SHOULD BE USED FOR WALLS 18' TO 20' TALL.

FOR WALLS SUPPORTING A ROOF AND A FLOOR 2 x 6 STUDS SPACED 16" O.C SHOULD BE USED FOR WALLS 12' TO 18' TALL

STUDS SHALL BE CONTINUOUS FROM SOLE PLATE TO TOP FLATE OR CEILING DIAPHRAGM, EXCEPT FOR JACK STUDS,TRIMMER OR CRIPPLE STUDS.

B. ANGLES: ANGLED WALLS ARE ASSUMED TO BE 45° UNLESS OTHERWISE NOTED.

C. FRAMING DETAILS: BEARING AND EXTERIOR WALL STUDS SHALL BE CAPPPED WITH DOUBLE TOP PLATES. INSTALL TO PROVIDE OVER-LAPPING AT CORNERS AND AT INTERSECTIONS WITH OTHER PARTITIONS. END JOINTS IN DOUBLE TOP PLATES SHALL BE OFFSET AT LEAST 48 INCHES.

D. OPENINGS: UNLESS OTHERWISE NOTED, ALL HEADERS ARE TO BE TYPE "A" PER THE HEADER SCHEDULE. EACH END OF A HEADER SHALL HAVE A BEARING LENGTH OF NOT LESS THAN 1-1/2 INCHES FOR THE FULL WIDTH OF THE LINTEL. PROVIDE SOLID BLOCKING BELOW ALL STUDS SUPPORTING HEADERS AND BEARS.

- UNLESS OTHERWISE DIMENSIONED, INTERIOR DOORS AND CASED OPENINGS ARE TO BE CENTERED IN THE WALL OR 3" FROM CORNERS AS INDICATED ON THE DRAWINGS.

E. FIRE BLOCKING OF NON-COMBUSTIBLE MATERIAL SHALL BE PROVIDED IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES, AND LAUNDRY CHUTES AT CEILING AND FLOOR LEVEL.

F. CRIPPLE WALLS: FOUNDATION CRIPPLE WALLS SHALL BE FRAMED WITH 2 x 4 STUDS WITH A MINIMUM LENGTH OF 14" OR SHALL BE FRAMED OF SOLID BLOCKING. WHEN EXCEEDING 4' IN HEIGHT ON 2 STORY STRUCTURES, WALLS SHALL BE 2 x 6 STUDS AT 16" O.C.

G. BASEMENT NONBEARING WALLS: NON-LOAD BEARING STUD WALLS EXTENDING FROM THE FLOOR SLAB TO THE STRUCTURE ABOVE SHALL BE PROVIDED WITH A MINIMUM 1-INCH EXPANSION JOINT.

H. GARAGE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET A 115 mph WIND LOAD. THE H-FRAME FOR ATTACHMENT OF TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING FROM FLOOR TO CEILING ATTACHES WITH 3-1/4"x120 NAILS @ 1" O.C. STAGGERED WITH 1) 3-1/4"x120 NAILS THRU JAMB INTO HEADER, MINIMUM 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.

FRAMING NOTES- DECKS

A. FOR DECK LEDGER ATTACHMENT AND DECK CONSTRUCTION REFER TO IRC SECTION 501.

FRAMING NOTES-CEILING

A. BLOCKING: ROOF RAFTERS AND CEILING JOISTS SHALL BE SUPPORTED LATERALLY TO PREVENT ROTATION AND LATERAL DISPLACEMENT.

B. JOISTS FRAMING INTO BEAMS SHALL BE SUPPORTED BY METAL JOIST HANGERS.

FRAMING NOTES- ROOF

A. FRAMING: RAFTERS SHALL BE FRAMED DIRECTLY OPPOSITE EACH OTHER AT THE RIDGE. THERE SHALL BE A RIDGE BOARD AT LEAST 1-INCH NOMINAL THICKNESS AT ALL RIDGES AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. AT ALL VALLEYS AND HIPS THERE SHALL BE A SINGLE VALLEY OR HIP RAFTER NOT LESS THAN 2-INCH NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER.

B. BRACING: ALL FURLIN AND HIPS, RIDGES, AND VALLEYS SHOUN TO BE SUPPORTED SHALL BE BRACED WITH A STRUT DOWN TO A BEARING WALL (WALLS LOCATED DIRECTLY ABOVE A BEAM LINE OR CONTINUOUS FOOTING). THE MINIMUM SLOPE OF THE STRUTS SHALL NOT BE LESS THAN 45° FROM THE HORIZONTAL.

C. RAFTER TIES: RAFTERS SHALL BE NAILED TO ADJACENT CEILING JOISTS TO FORM A CONTINUOUS TIE BETWEEN EXTERIOR WALLS WHEN SUCH JOISTS ARE PARALLEL TO THE RAFTERS. WHERE NOT PARALLEL, RAFTERS SHALL BE TIED TO 2"x4" MINIMUM CROSSTIES AT EACH RAFTER AND LOCATED AS CLOSE TO THE CEILING JOISTS AS POSSIBLE (RE: DETAIL 3 x 4 G/3).

D. RAFTER COLLAR TIES: PROVIDE 1x4 MIN. COLLAR TIES AT 48" O.C. (RE: DETAIL 3 x 4 G/3). AT CATHEDRAL CEILINGS PROVIDE RIDGE STRAPS.

E. VAULTED CEILINGS: FOR RAFTERS SMALLER THAN A 2 x 10, FURRING MUST BE ADDED TO THE BOTTOM OF THE RAFTER TO OBTAIN A 9 1/4" MINIMUM DEPTH.

F. FLASH AND COUNTERFLASH ROOF RIDGES AND VALLEYS, ROOF PENETRATIONS, CHANGES IN ROOF FITCHES, RAKES, CHIMNEY BASES, WINDOW AND DOOR HEADS, ETC. TO PROVIDE WATER TIGHT CLOSURES. ALL EXPOSED FLASHING TO BE 26 GAUGE ALUMINUM. COUNTERFLASHING SHALL BE FABRICATED FROM 40# TERNE METAL.

G. ATTIC VENTILATION: THE NET FREE VENTILATION AREA SHALL BE NOT LESS THAN 1/50 OF THE AREA OF THE SPACE VENTILATED, EXCEPT THAT THE AREA MAY BE 1/300, PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATOR LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED, AT LEAST 3 FEET ABOVE EAVES OR CORNICE VENTS, WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. RAFTERS SPACES ENCLOSED BY CEILINGS DIRECTLY APPLIED TO UNDERSIDE OF RAFTERS SHALL BE SIZED TO ALLOW A MINIMUM 1 INCH CLEAR VENTED AIR SPACE ABOVE THE INSULATION AND EACH SPACE BETWEEN JOISTS SHALL BE VENTED.

H. ROOF SHEATHING: SHALL BE INSTALLED PERPENDICULAR TO THE ROOF JOISTS AND THE ENDS SHALL BE STAGGERED.

PREFABRICATED WOOD TRUSSES (IF USED)

A. ROOF AND FLOOR TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE (TFI) DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES AND THE NATIONAL DESIGN SPECIFICATION FOR ANSINFORMA WOOD CONSTRUCTION. PROVIDE TEMPORARY AND PERMANENT BRACING ON ALL TRUSSES, AS REQUIRED TO PROVIDE MEMBER AND TRUSS STABILITY.

B. ROOF TRUSSES SHALL BE DESIGNED AND CONSTRUCTED FOR A MAXIMUM TOTAL LOAD DEFLECTION OF L/240, AND TO SAFELY SUPPORT THE FOLLOWING LOADS:

1. TOP CHORD:
  - a. LIVE LOAD ..... SEE GENERAL NOTES
  - b. DEAD LOAD ..... 15 PSF
2. BOTTOM CHORD:
  - a. LIVE LOAD ..... 10 PSF
  - b. DEAD LOAD ..... 10 PSF
3. WIND LOADS IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE. GABLED END TRUSSES SHALL HAVE VERTICAL MEMBERS SPACED AT 16" ON CENTER MAXIMUM.
4. TRUSSES SHALL ALSO BE DESIGNED TO SUPPORT ADDITIONAL OVERBUILD FRAMING TO FORM VALLEYS AND HIPS ON ROOFS.
5. TRUSSES SHALL BE DESIGNED TO SUPPORT DRIFTED SNOW LOADS IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE.
6. TRUSSES SHALL BE ATTACHED TO WALL ASSEMBLIES BY CONNECTIONS CAPABLE OF RESISTING UPLIFT FORCES AS SPECIFIED ON THE TRUSS DESIGN DRAWINGS PER IRC TABLE R802.11.

ENERGY REQUIREMENTS

A. THE BUILDING THERMAL ENEVELOPE IS REQUIRED TO BE SEALED (IRC N102.4.1)

B. RECESSED LIGHTING SHALL BE SEALED TO PREVENT LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES

C. DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED (IRC SECTION N103.2)

D. PENETRATIONS IN AIR BARRIERS (HOUSE WRAP) SHALL BE TAPED AND SEALED AS REQUIRED BY AIR BARRIER MANUFACTURER, WINDOW DOOR MANUFACTURER AND ENERGY CODE.

FASTENING SCHEDULE

CONNECTION	NAILS	LOCATION
JOIST TO BILL OR GIRDER	3-8d 3 - 3" x Ø131"	TOENAIL
BRIDGING TO JOIST	2-8d 2 - 3" x Ø131"	TOENAIL
SOLE PLATE TO JOIST OR BLOCKING	16d at 16" o.c. 3-3" x Ø131 at 8" o.c.	FACE NAIL
SOLE PLATE TO JOIST / BLOCKING AT BRACED WALL PANELS	3-16d at 16" o.c. 4 -3" x Ø131 at 16" o.c.	FACE NAIL
TOP PLATE TO STUD	2-16d 3 - 3" x Ø131"	END NAIL
STUD TO SOLE PLATE	4-8d 4 - 3" x Ø131"	TOENAIL
	2-16d 3 - 3" x Ø131"	FACE NAIL
DOUBLE STUDS	16d at 24" o.c. 3" x Ø131 at 8" o.c.	FACE NAIL
DOUBLE TOP PLATES	16d at 24" o.c. 3" x Ø131 at 12" o.c.	FACE NAIL
	8-16d 12-3" x Ø131	LAP SPLICE
BLOCKING BETWEEN JOISTS AND RAFTERS TO TOP PLATE	3-8d 3-3" x Ø131 at 12" o.c.	TOENAIL
RIM JOIST TO TOP PLATE	8d at 6" o.c. 3" x Ø131 at 6" o.c.	TOENAIL
TOP PLATE, LAPs AND INTERSECTIONS	2 - 16d 3 - 3" x Ø131"	FACE NAIL
CONTINUOUS HEADER, 2 PIECES.	16d at 16" o.c. 3" x Ø131 at 12" o.c.	FACE NAIL
CEILING JOISTS TO TOP PLATE	3-8d 5 - 3" x Ø131	TOENAIL
CONTINUOUS HEADER TO STUD	4-8d 6 - 3" x Ø131	TOENAIL
CEILING JOISTS, LAPs OVER PARTITIONS	2-16d 4 - 3" x Ø131	FACE NAIL
CEILING JOISTS TO PARALLEL RAFTERS/ RAFTER TIES TO RAFTERS	RE: IRC TABLE R802.5.1 (3)	FACE NAIL
RAFTER TO PLATE	3-8d 3 - 3" x Ø131"	TOENAIL
1" DIAGONAL BRACE TO EACH STUD AND PLATE	2-8d 2 - 3" x Ø131"	FACE NAIL
BUILT UP CORNER STUDS	16d at 24" o.c. 3" x Ø131 at 16" o.c.	FACE NAIL
BUILT UP BEAMS, STAGGER NAILS ON OPPOSITE SIDES	20d at 32" o.c. 3" x Ø131 at 24" o.c.	FACE NAIL
BUILT UP BEAMS AT ENDS AND SPLICES	2-20d 3 - 3" x Ø131"	FACE NAIL
COLLAR TIE TO RAFTER	3-10d 4 - 3" x Ø131"	FACE NAIL
JACK RAFTER TO HIP	3-10d 4 - 3" x Ø131"	TOE NAIL
	2-16d 3 - 3" x Ø131"	FACE NAIL
ROOF RAFTER TO 2 x RIDGE BEAM	2-16d 3 - 3" x Ø131"	TOE NAIL & FACE NAIL
JOIST TO BAND JOIST	3-16d 4 - 3" x Ø131"	FACE NAIL
LEDGER STRIP	3-16d 4 - 3" x Ø131"	FACE NAIL
3/4" OR LESS WOOD STRUCTURAL PANEL WALL, SUBFLOOR, 4 ROOF SHEATHING	6d at 12" o.c. 6d at 6" o.c. 2 3/8" x Ø131 at 8" o.c. 2 3/8" x Ø131 at 4" o.c.	INTERMEDIATE EDGES
1/8" TO 1" WOOD STRUCTURAL PANEL WALL, SUBFLOOR, 4 ROOF SHEATHING	10d at 12" o.c. 8d at 6" o.c. 2 1/2" x Ø131 at 8" o.c. 2 3/8" x Ø131 at 4" o.c.	INTERMEDIATE EDGES
1 1/8" TO 1 1/4" WOOD STRUCTURAL PANEL WALL, SUBFLOOR, 4 ROOF SHEATHING	8d at 12" o.c. 10d at 6" o.c. 3" x Ø148 at 8" o.c. 3" x Ø148 at 4" o.c.	INTERMEDIATE EDGES
HARDBOARD SIDING	8d at 6" o.c. 8d at 12" o.c.	INTERMEDIATE EDGES
1/2" GYPSUM SHEATHING	6d at 8" o.c. 6d at 4" o.c.	INTERMEDIATE EDGES
5/8" GYPSUM SHEATHING	8d at 8" o.c. 8d at 4" o.c.	INTERMEDIATE EDGES
WOOD 1 JOISTS AT EACH END AND BEARING POINT	8d each side	FACE NAIL





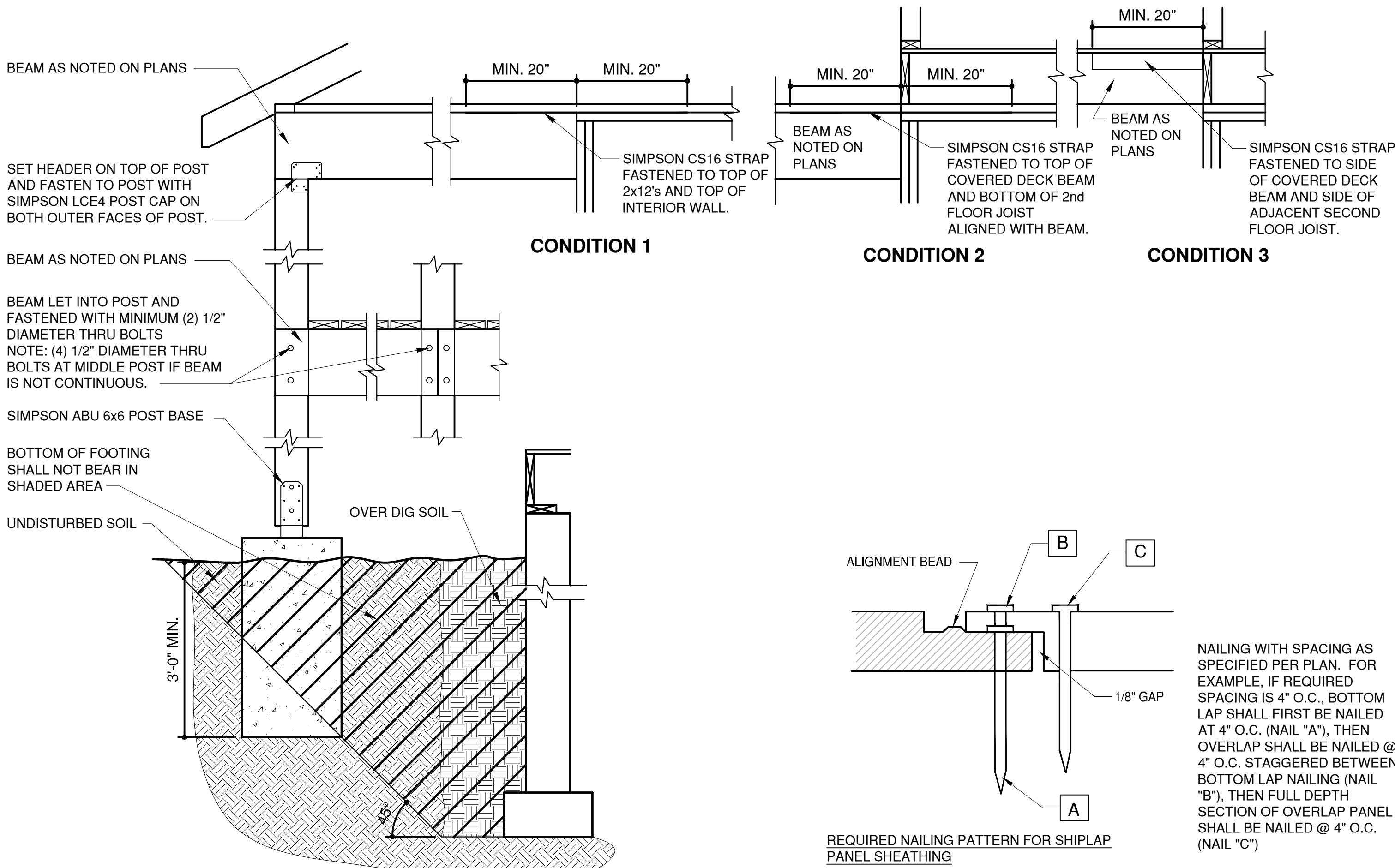


TABLE R602.10.6.4  
TENSION STRAP CAPACITY REQUIRED FOR RESISTING WIND PRESSURES  
PERPENDICUALR TO METHOD PFH, PFG, AND CS-PF BRACED WALL PANELS

2-9-21

MINIMUM WALL STUD FRAMING NORMAL SIZE AND GRADE	MAXIMUM PONY WALL HEIGHT (feet)	MAXIMUM TOTAL WALL HEIGHT (feet)	MAXIMUM OPENING WIDTH (feet)	TENSION STRAP CAPACITY REQUIRED (pounds) a,b					
				ULTIMATE DESIGN WIND SPEED (mph)					
				110	115	130	110	115	130
				EXPOSURE B			EXPOSURE C		
2 x 4 NO. 2 GRADE	0	10	18	1,000	1,000	1,000	1,000	1,000	1,050
			9	1,000	1,000	1,000	1,000	1,000	1,750
	1	10	16	1,000	1,025	2,050	2,075	2,500	3,950
			18	1,200	1,275	2,375	2,400	2,850	DR
	2	10	9	1,000	1,000	1,475	1,500	1,875	3,125
			16	1,775	2,175	3,525	3,550	4,125	DR
			18	2,075	2,500	3,950	3,975	DR	DR
	2	12	9	1,150	1,500	2,650	2,675	3,175	DR
			16	2,875	3,375	DR	DR	DR	DR
			18	3,425	3,975	DR	DR	DR	DR
	4	12	9	2,275	2,750	DR	DR	DR	DR
			12	3,225	3,775	DR	DR	DR	DR
2 x 6 STUD GRADE	2	12	9	1,000	1,000	1,700	1,700	2,025	3,050
			16	1,825	2,150	3,225	3,225	3,675	DR
			18	2,200	2,550	3,725	3,750	DR	DR
	4	12	9	1,450	1,750	2,700	2,725	3,125	DR
			16	2,050	2,400	DR	DR	DR	DR
			18	3,50	3,800	DR	DR	DR	DR

- a. DR = DESIGN REQUIRED  
b. STRAP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



1 COVERED PORCH DETAIL  
3/4"=1'-0" A-DTV-06100-07

2 SHEATHING NAILING DETAIL  
1/2"=1'-0" A-DTW-06062-28

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STATE OF MISSOURI  
DANIEL J. WEBSTER  
REGISTERED ARCHITECT  
NUMBER A-5400  
10/15/2021

DRAWN BY: KF, MP  
DATE: 10-13-21  
PROJECT NO: 21-015-01

SHEET NO.

**CS**  
CONSTRUCTION  
REVIEW  
12/06/2021



