

DRAWING INDEX

- A0 COVER SHEET
- A1.1 FOUNDATION PLAN
- A2.1 1st FLOOR PLAN
- A3.1 2nd FLOOR PLAN
- A4.1 ROOF PLAN
- A5.1 ELEVATIONS
- A5.2 ELEVATIONS
- G1 GENERAL NOTES
- G2 GENERAL DETAILS
- G3 GENERAL DETAILS
- G4 BRACED WALL DETAILS

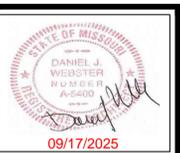
RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
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 LEE'S SUMMIT, MO. 64081

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DRAWN BY: MP
 DATE: 9-16-25
 REVISION DATE:
 PROJECT NO: 25-221-21

SHEET NO.
A0

DESCRIPTION	SYMBOL
INTERIOR LOAD BEARING WALL	
STONE OR BRICK VENEER	
JOIST SIZE AND DIRECTION	
HEADER/ BEAM	
SIZE OF MEMBER PER SCHEDULE	(A 2) U
NUMBER OF FLYS	"U" IF UPSET
CENTERLINE	
POINT LOAD	
APPROX. WINDOW FRAME SIZE FEET & INCHES	
SMOKE ALARM	
SMOKE & CARBON MONOXIDE ALARM	

MARK	LUMBER SIZE	JACK STUDS	KING STUDS
(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 9 1/2" L.V.L.	2	1
(G)	3/4" x 11 1/2" L.V.L.	2	1
(H)	3/4" x 14" L.V.L.	2	1
(J)	3/4" x 16" L.V.L.	3	1
(K)	3/4" x 18" L.V.L.	3	1
(L)	3/4" x 9 1/2" L.S.L.	1	1
(M)	3/4" x 11 1/2" 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.

MARK	TYPE	SUB-TYPE	SIZE	SPACING	MAX SPAN
FJ-1	1" JOIST (SEE NOTE)	9 1/2"	PER MANUFACTURER		
FJ-2	1" JOIST (SEE NOTE)	11 7/8"	PER MANUFACTURER		
FJ-3	1" 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'-7"
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.

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

MARK	PAD SIZE	#4 BARS REQ'D EACH WAY	COLUMN SIZE (SCHEDULE 40)	MAX. LOAD
(A)	36"x36"x12"	6	3"	13.5 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

MARK	PIER DIAMETER	POST (ACQ OR CEDAR UNO)	MAX. LOAD
(F)	12"	6x6 UNO.	11 K
(G)	18"	6x6 UNO.	26 K
(H)	24"	6x6 UNO.	47 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.

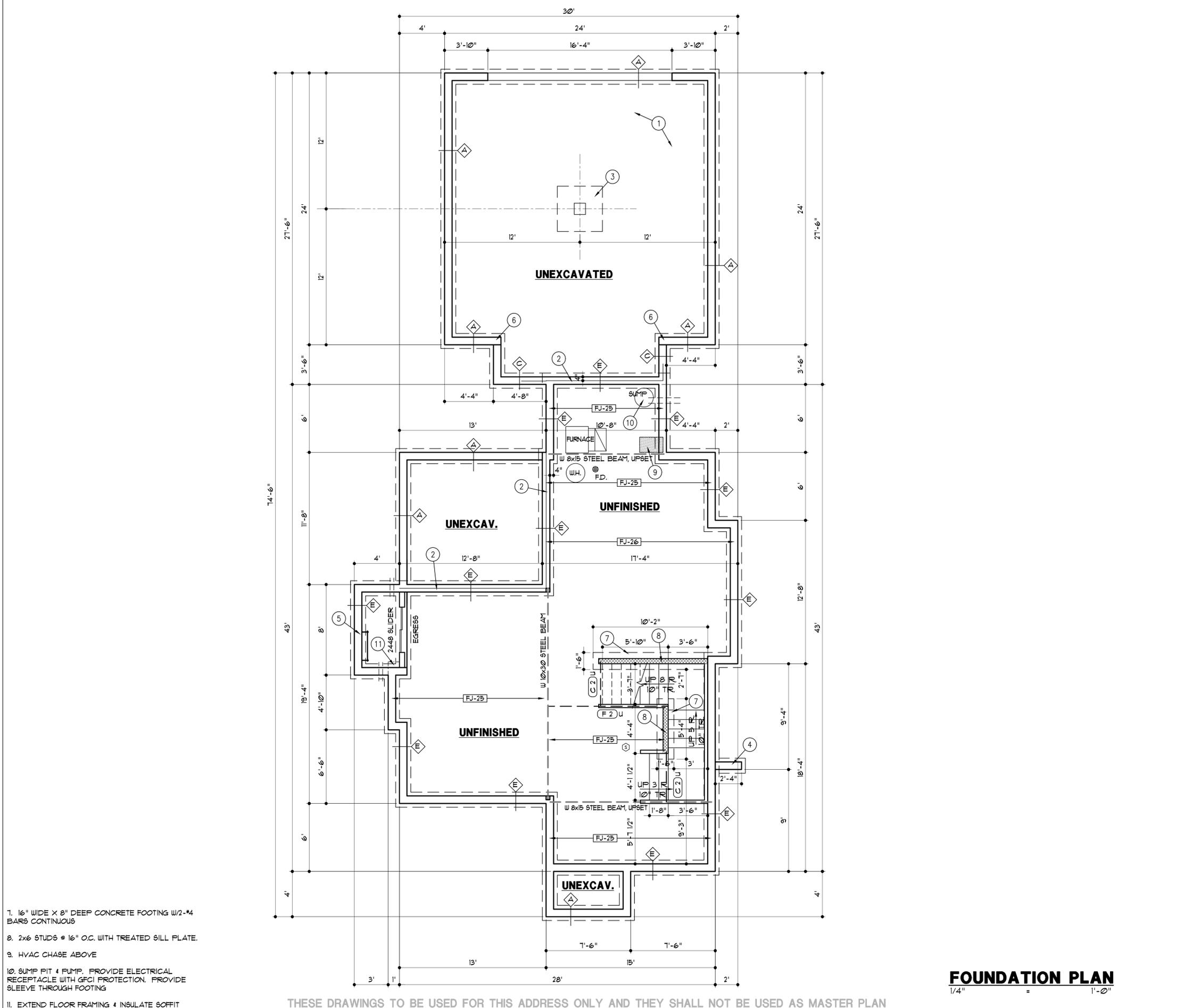
B. FURNACE IS DIRECT VENT AND USES OUTSIDE AIR FOR COMBUSTION.

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

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

FOUNDATION PLAN NOTES

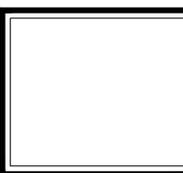
- SEE DETAIL 3/G2 FOR GARAGE SLAB CONSTRUCTION.
- SILL PLATE SET BACK - SEE DETAILS 4/5/G2
- CONCRETE PIER AND PAD - SEE DETAIL 3/G2
- RETURN WALL - SEE DETAIL 8/G2
- CONCRETE WINDOW WELL WITH LADDER - SEE DETAIL 3/G2
- DROP TOP OF FOUNDATION WALL PER FINAL GRADE



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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 LEE'S SUMMIT, MISSOURI

FLOOR PLAN - SYMBOL LEGEND	
DESCRIPTION	SYMBOL
INTERIOR LOAD BEARING WALL	[Symbol]
STONE OR BRICK VENEER	[Symbol]
JOIST SIZE AND DIRECTION	[Symbol]
HEADER/ BEAM	[Symbol]
SIZE OF MEMBER PER SCHEDULE	[Symbol]
HEADER/ BEAM SCHEDULE NUMBER OF FLYS	[Symbol]
"U" IF UPSET	[Symbol]
CENTERLINE POINT LOAD	[Symbol]
APPROX. WINDOW FRAME SIZE FEET & INCHES	[Symbol]
SMOKE ALARM	[Symbol]
SMOKE & CARBON MONOXIDE ALARM	[Symbol]

HEADER / BEAM SCHEDULE			
MARK	LUMBER SIZE	JACK STUDS	KING STUDS
(A)	2 x 6	1	
(B)	2 x 8	1	
(C)	2 x 10	1	
(D)	2 x 12	2	
(E)	3/4" x 1 1/4" L.V.L.	2	
(F)	3/4" x 9 1/2" L.V.L.	2	
(G)	3/4" x 11 1/8" L.V.L.	2	
(H)	3/4" x 14" L.V.L.	2	
(J)	3/4" x 16" L.V.L.	3	
(K)	3/4" x 18" L.V.L.	3	
(L)	3/4" x 9 1/2" L.S.L.	1	
(M)	3/4" x 11 1/8" L.S.L.	2	

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	"# JOIST (SEE NOTE)		9 1/2"	PER MANUFACTURER	
FJ-2	"# JOIST (SEE NOTE)		11 7/8"	PER MANUFACTURER	
FJ-3	"# 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.	

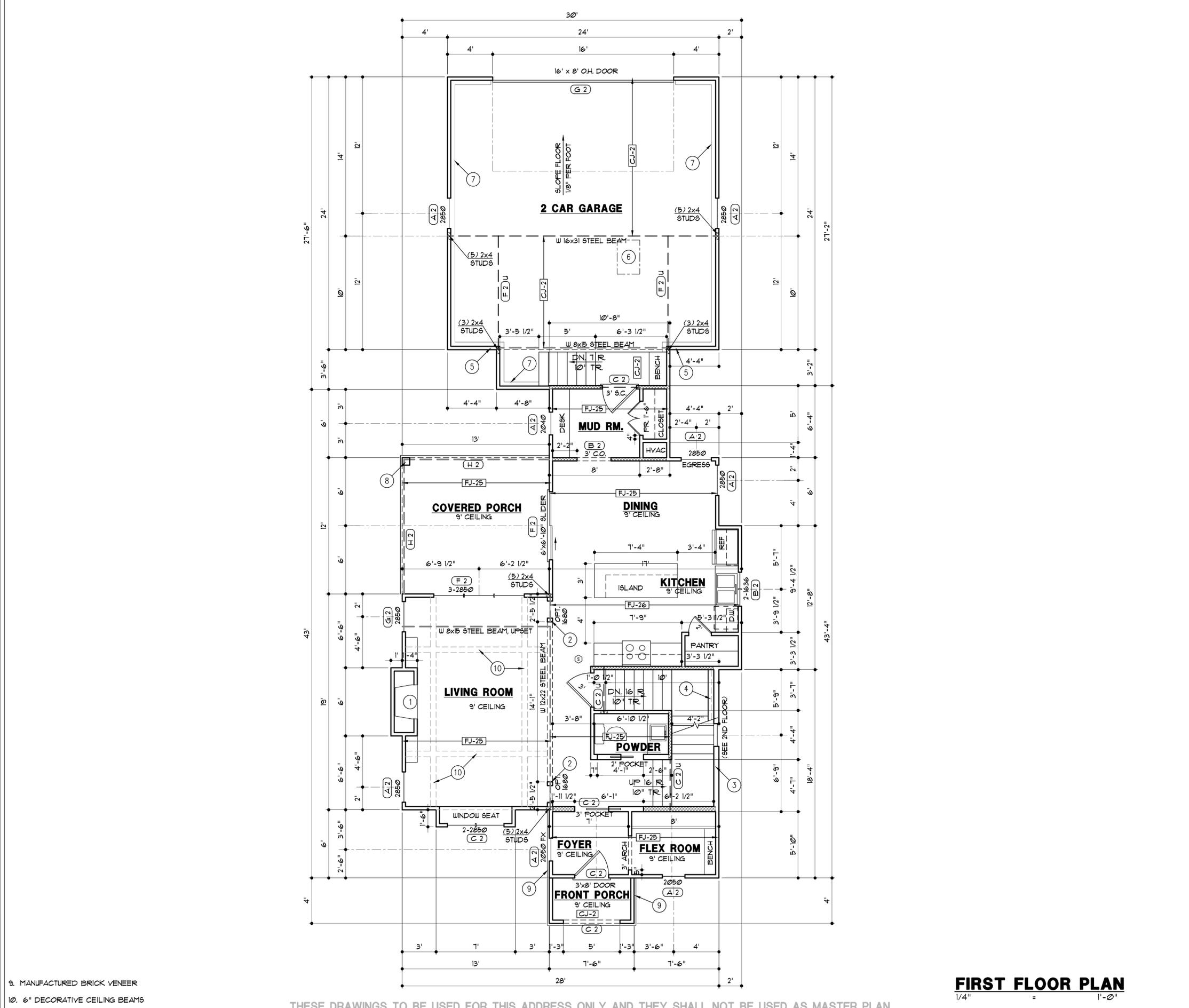
NOTE: DESIGN I-JOISTS (LOADED W/ TOTAL LIVE AND DEAD LOAD) WITH A MAX. DEFLECTION OF L/360, EXCEPT BELOW BATHROOMS AND TILED AREAS WHERE THE DEFLECTION SHALL BE L/480 MAX.

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	895
SECOND FLOOR	929
TOTAL	1824
GARAGE	626
BASEMENT (UNFINISHED)	912
FRONT PORCH	30
COVERED PORCH	156

GENERAL NOTES:
 A. EXTERIOR WALLS ARE 2x4 STUDS AT 16" O.C. UNLESS OTHERWISE NOTED.
 B. SOLID BLOCK BELOW STUDS SUPPORTING BEAMS AND HEADERS.
 C. FOR COVERED PORCH FRAMING - SEE DETAIL 1/G3
 D. SEE G4 SHEET FOR LOCATION OF HOLD-DOWN TIES FOR BRACED WALL CONSTRUCTION

- FLOOR PLAN NOTES
- DIRECT VENT FIREPLACE
 - 2x6 STUDS AT 16" O.C.
 - 18'-0" TALL UNINTERRUPTED STAIRWELL WALL, 2x6 STUDS AT 12" O.C.
 - 2x4 FINISH WALL
 - CHANGE IN PLATE HEIGHT (SEE ELEVATION)
 - 1'-10"x3" ATTIC ACCESS
 - EXPOSED FOUNDATION WALL
 - 8x8 TREATED POST WRAPPED WITH SMART TRIM

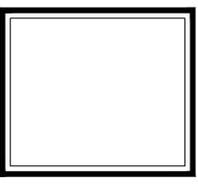


- MANUFACTURED BRICK VENEER
- 6" DECORATIVE CEILING BEAMS

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

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DRAWN BY: MP
 DATE: 9-16-25
 REVISION DATE:
 PROJECT NO: 25-021-01

SHEET NO. **A2-1**

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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 HEADER/ BEAM SCHEDULE
	NUMBER OF PLYS "U" IF UPSET
CENTERLINE	
POINT LOAD	
APPROX. WINDOW FRAME SIZE FEET & INCHES	
SMOKE ALARM	
SMOKE & CARBON MONOXIDE ALARM	

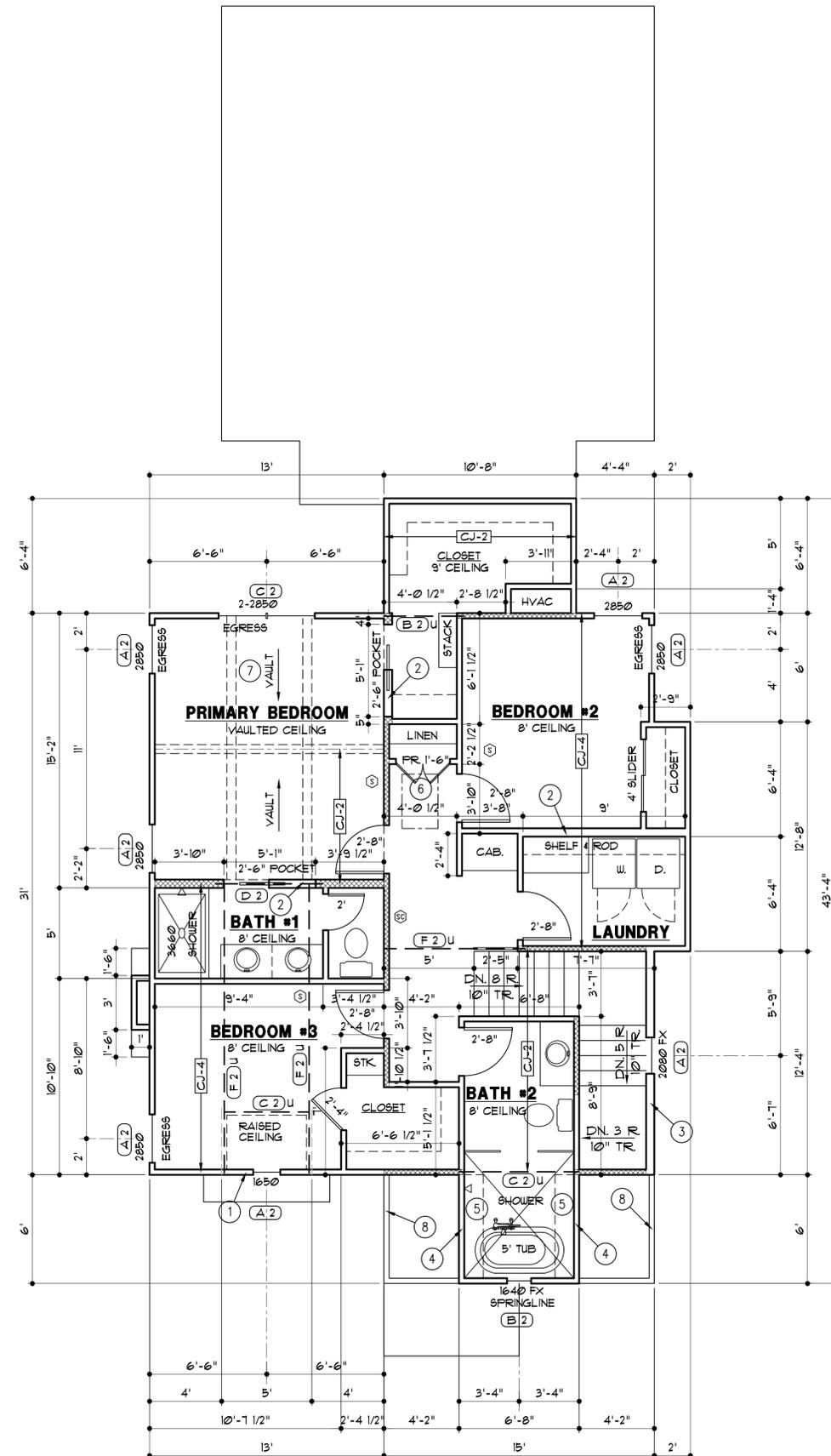
HEADER / BEAM SCHEDULE			
MARK	LUMBER SIZE	JACK STUDS	KING STUDS
(A)	2 x 6	1	1
(B)	2 x 8	1	1
(C)	2 x 10	1	1
(D)	2 x 12	2	1
(E)	3/4" x 7 1/4" L.V.L.	2	1
(F)	3/4" x 9 1/2" L.V.L.	2	1
(G)	3/4" x 11 1/8" L.V.L.	2	1
(H)	3/4" x 14" L.V.L.	2	1
(J)	3/4" x 16" L.V.L.	3	1
(K)	3/4" x 18" L.V.L.	3	1
(L)	3/4" x 9 1/2" L.S.L.	1	1
(M)	3/4" x 11 1/8" L.S.L.	2	1

1. BEAMS SHALL HAVE TOTAL NUMBER OF GRIFFLES AND TRIMMERS UNDER EACH END. SOLID BLOCK BELOW.
 2. FOR L.V.L. BEAMS IN 2x10 FLOORS, USE 3/4" L.V.L.

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"	

- GENERAL NOTES:**
- A. EXTERIOR WALLS ARE 2x4 STUDS AT 16" O.C. UNLESS OTHERWISE NOTED.
 - B. SOLID BLOCK BELOW STUDS SUPPORTING BEAMS AND HEADERS.
 - C. SEE G4 SHEET FOR LOCATION OF HOLD-DOWN TIES FOR BRACED WALL CONSTRUCTION.

- FLOOR PLAN NOTES**
- 10'-5" TALL WALL
 - 2x6 STUDS AT 16" O.C.
 - 18'-0" TALL UNINTERRUPTED STAIRWELL WALL, 2x6 STUDS AT 12" O.C.
 - 1'-10 3/8" TALL WALL
 - CLIPPED CEILING
 - 1'-10 1/2" x 3" ATTIC ACCESS
 - FURR DOWN ROOF RAFTERS FOR INSULATION
 - 3' TALL KNEEWALL SET ON FLOORJOISTS



SECOND FLOOR PLAN
 1/4" = 1'-0"

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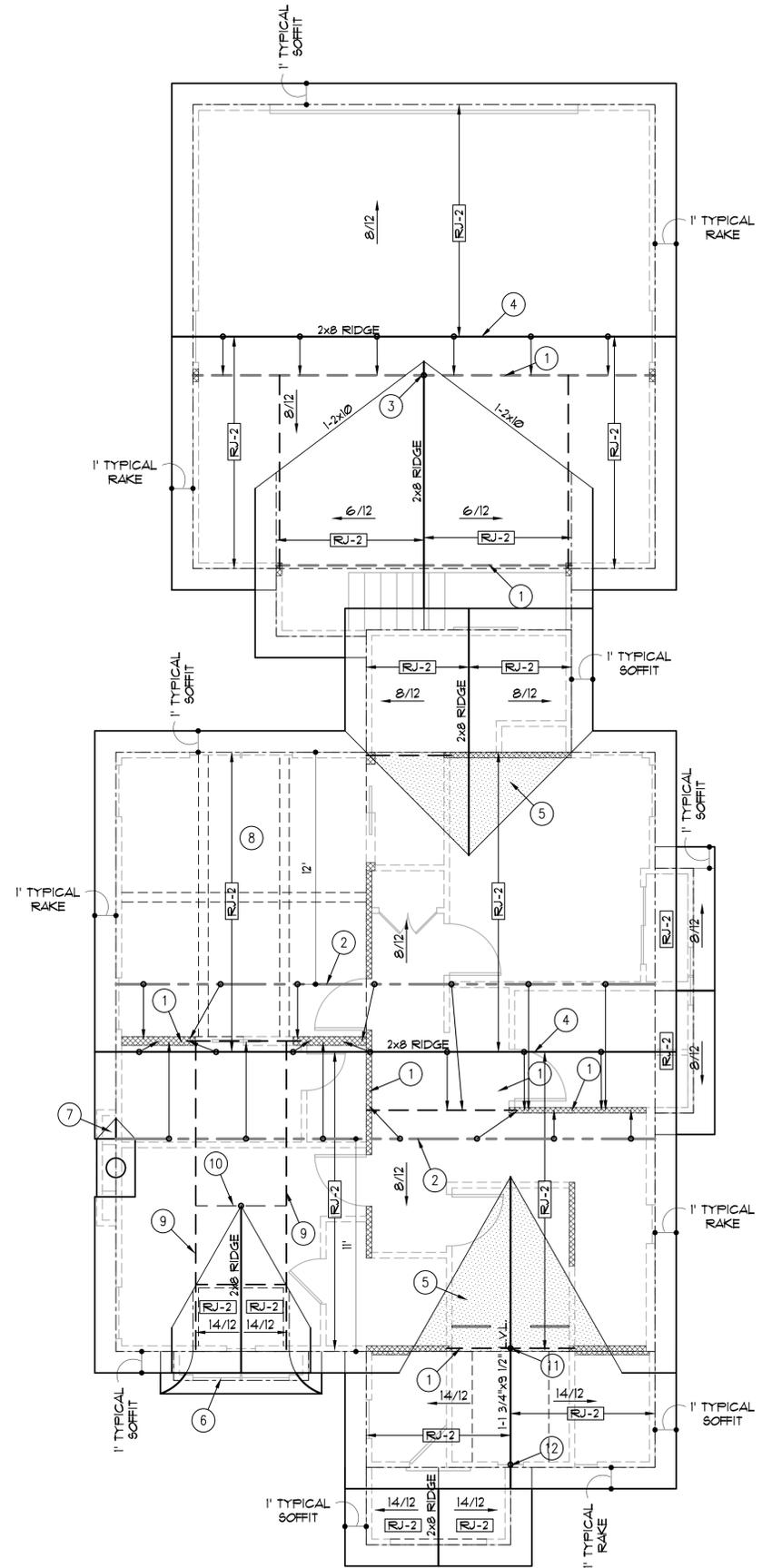
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ROOF PLAN LEGEND	
DESCRIPTION	SYMBOL
RIDGES AND HIP	—————
VALLEYS	—————
EAVES, RAKE & GABLE	—————
HOUSE WALLS	—————
FURLIN	—————
FURLIN STRUT LOCATION	o
STRUT BEARING LOCATION	o
JOIST SIZE AND SPACING	—————

ROOF RAFTER SCHEDULE				
MARK	SIZE	SPACING	MAXIMUM SPAN	
			COMPOSITION SHINGLES FLAT CEILING	VAULTED CEILING
RJ-1	2x6	12"	16'-7"	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'-3"	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:**
- WHERE POSSIBLE, BRACE ALL RIDGES WITH 2x6 "T" BRACES TO BEARING WALLS OR BEAMS BELOW, AT 4' O.C.
 - STRUTS TO BEAR ON WALLS AS INDICATED. CONTACT ARCHITECT WITH ANY PROPOSED CHANGE TO STRUT BEARING LOCATIONS. ARCHITECT MAY NEED TO VERIFY THAT BEAMS BELOW NEW STRUT LOCATION CAN SUPPORT ADDED LOADS.
 - SEE SHEET G1 FOR LOAD AND DEFLECTION LIMITATIONS
 - SEE SHEET G3 FOR ROOF FRAMING DETAILS 344/G3
 - ROOFING TO BE COMPOSITION-40 YR. ON 30# FELT ON 1/16" O.S.B. SHEATHING

- ROOF PLAN NOTES**
- BEARING WALL OR BEAM BELOW
 - 2x8 FURLIN WITH 2x6 "T" BRACES AT 4' O.C. TO BEARING WALL/ BEAM BELOW
 - 2x6 "T" BRACE TO BEARING WALL OR BEAM BELOW. BRACE SHALL BE CONNECTED TO STRUCTURE AT ROOF AND CEILING WITH MINIMUM (5) 16d NAILS.
 - BRACE RIDGE DOWN TO BEARING WALL OR BEAM BELOW WITH 2x6 "T" BRACES AT 4' O.C.
 - OVER FRAME THIS AREA
 - CURVED METAL ROOF
 - CRICKET
 - FURR DOWN ROOF RAFTERS TO PROVIDE ROOM FOR INSULATION.
 - (3) 2x6 RAFTERS
 - (2) 2x6's
 - (3) 2x6 STRUT
 - (3) 2x4 STRUT



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ROOF PLAN

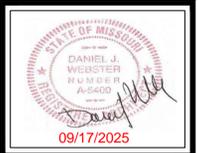
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GENERAL NOTES

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

B. PROVIDE WINDOW OPENING LIMITING DEVICE

ELEVATION NOTES

1. STUCCO SIDING, SEE DETAIL 1/A5.1. EXTEND STUCCO TO WITHIN 8" OF FINISHED GRADE. 2x6 SMART TRIM AROUND WINDOWS AND DOORS UNLESS NOTED OTHERWISE.

2. MANUFACTURED BRICK VENEER WITH SOLDIER COURSE AROUND OPENING

3. STANDING SEAM METAL ROOF

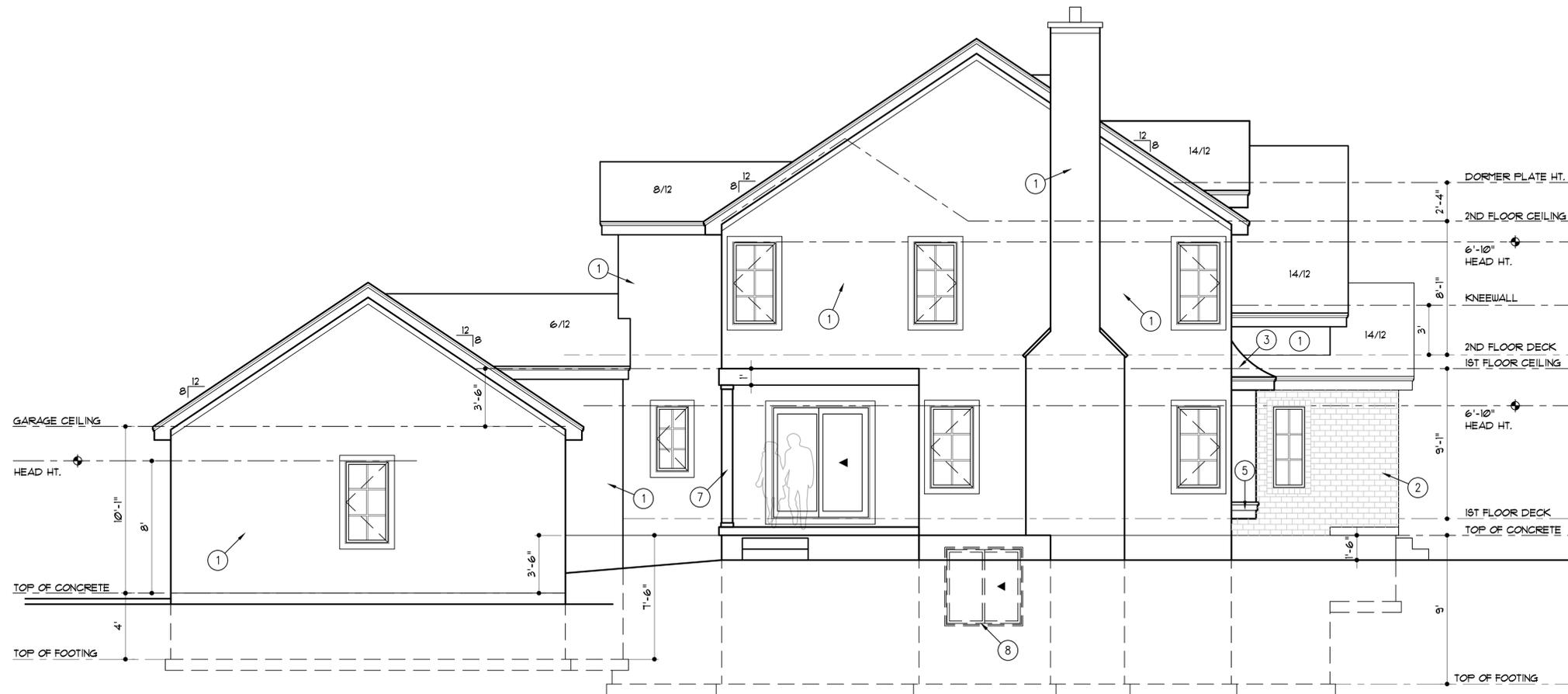
4. SLOPED SOFFIT

5. LP SMART TRIM - SIZED PER APPLICATION

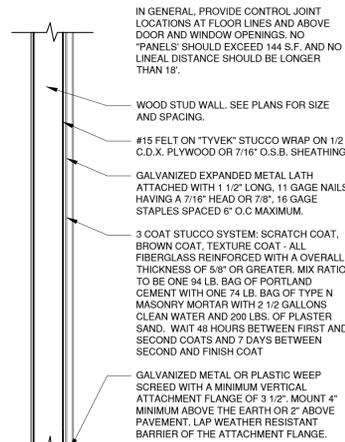
6. LIGHT FIXTURE

7. 8x8 TREATED POST WRAPPED WITH SMART TRIM

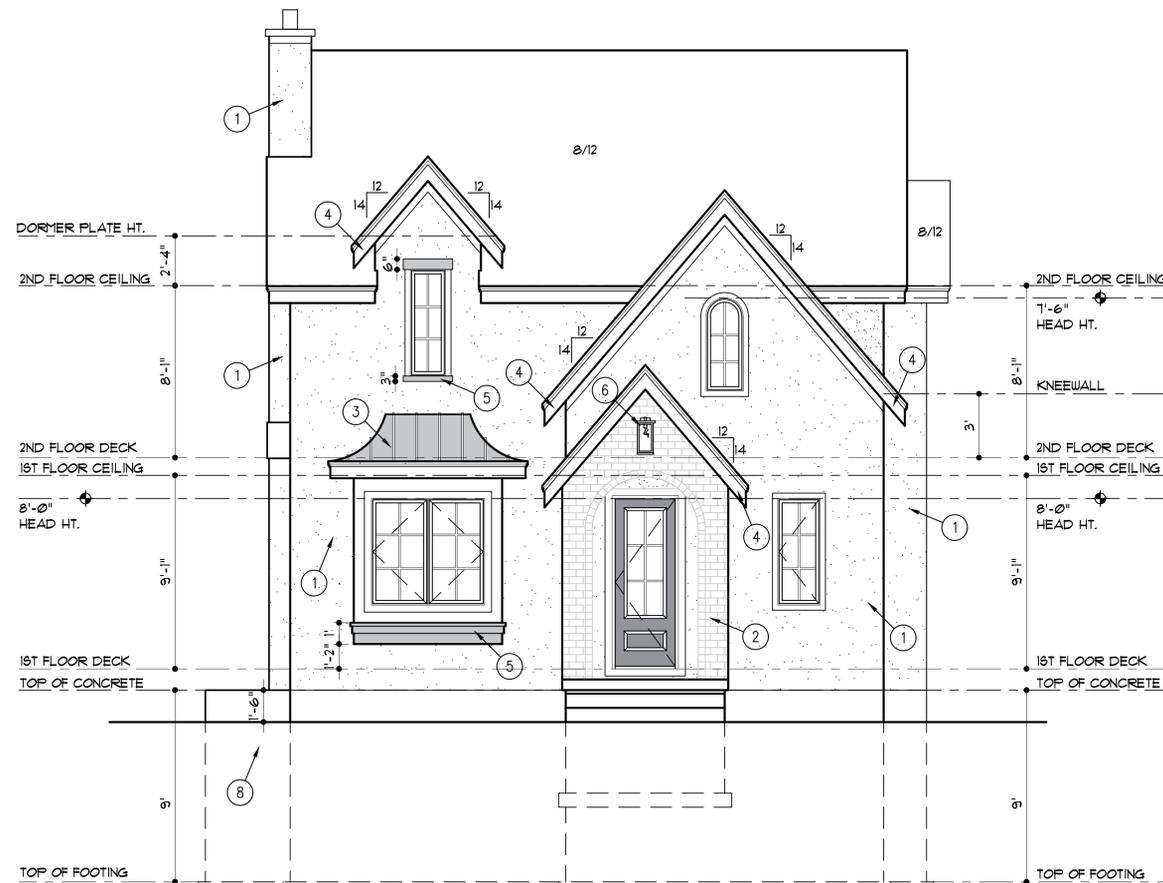
8. CONCRETE EGRESS WINDOW WELL. WINDOW SET AT MAX. 44" FROM FINISH FLOOR TO SILL



LEFT SIDE ELEVATION
1/4" = 1'-0"



1 STUCCO DETAIL
3/4" = 1'-0"



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

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DANIEL J. WEBSTER
REGISTERED PROFESSIONAL ARCHITECT
A-5400
09/17/2025

DRAWN BY: MP
DATE: 9-16-25
REVISION DATE:
PROJECT NO: 25-221-21

SHEET NO.

A5.1
FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
10/16/2025 3:25:02

GENERAL NOTES

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

B. PROVIDE WINDOW OPENING LIMITING DEVICE

ELEVATION NOTES

1. STUCCO SIDING, SEE DETAIL 1/A5.1. EXTEND STUCCO TO WITHIN 8" OF FINISHED GRADE. 2x6 SMART TRIM AROUND WINDOWS AND DOORS UNLESS NOTED OTHERWISE.

2. MANUFACTURED BRICK VENEER WITH SOLDIER COURSE AROUND OPENING

3. STANDING SEAM METAL ROOF

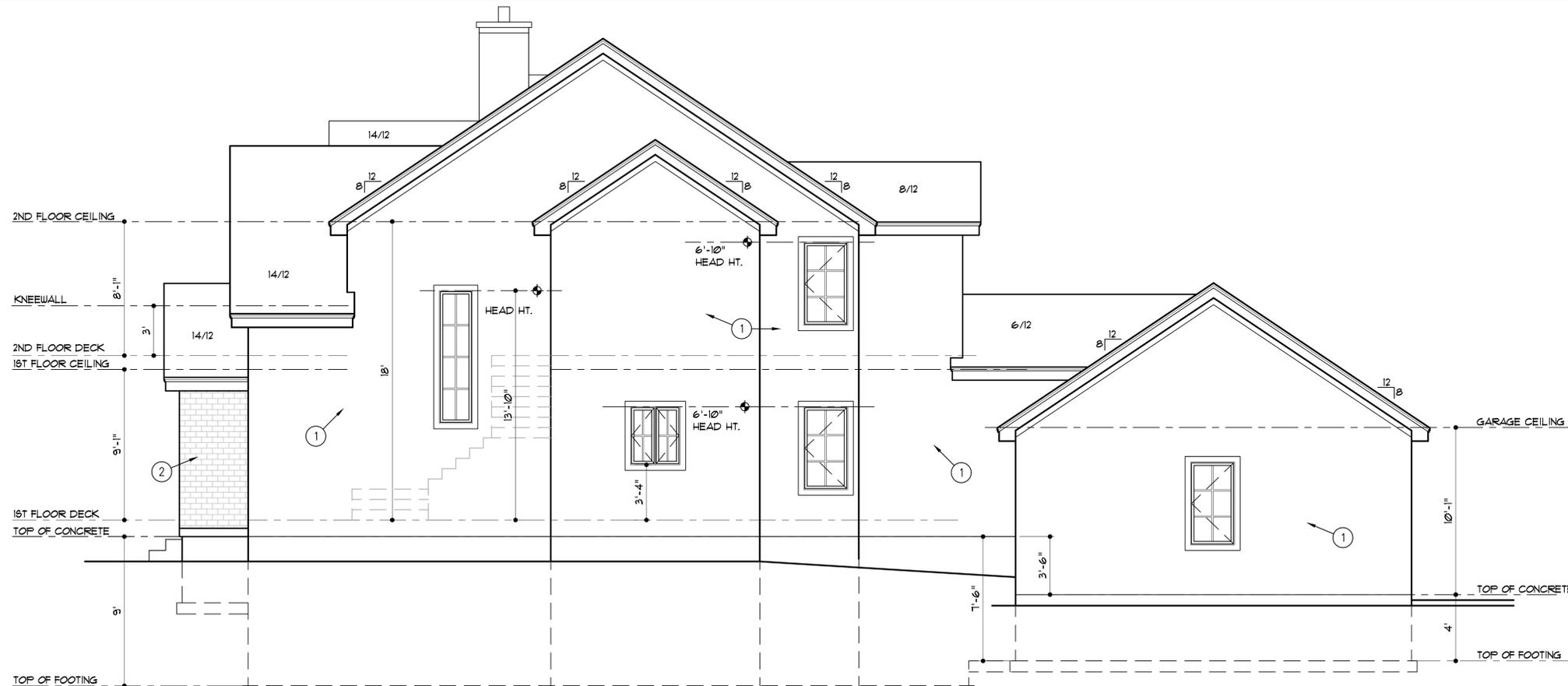
4. SLOPED SOFFIT

5. LP SMART TRIM - SIZED PER APPLICATION

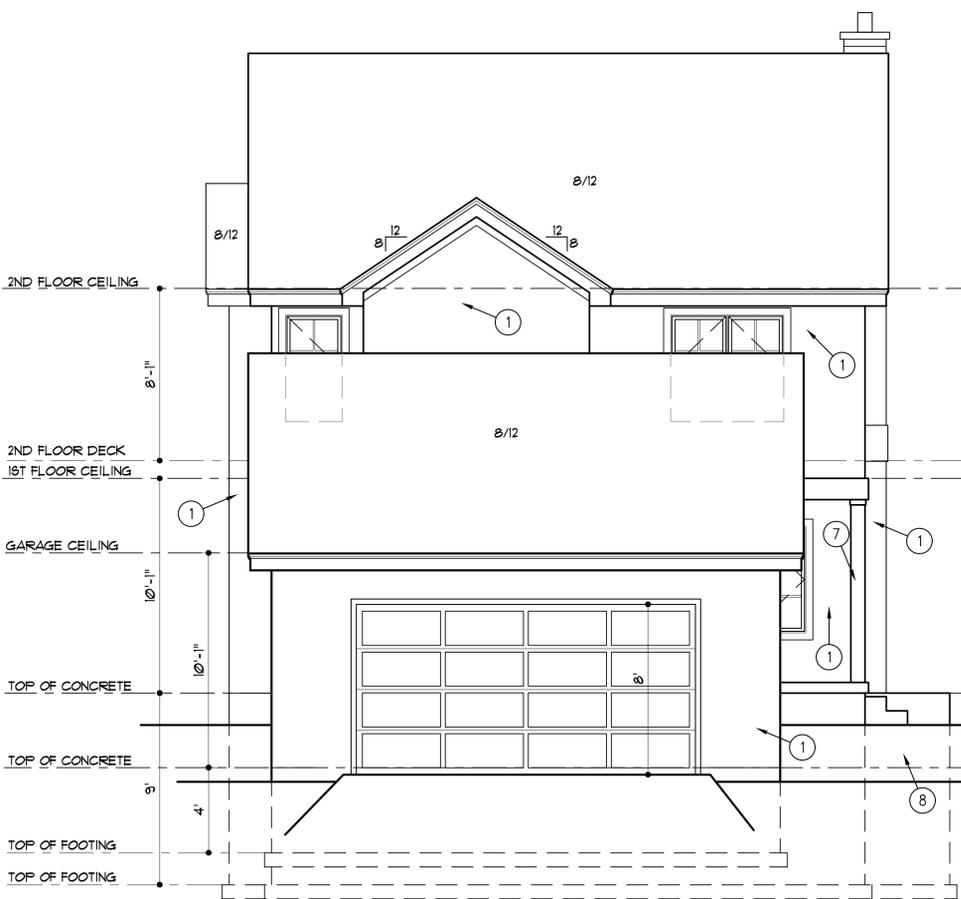
6. LIGHT FIXTURE

7. 2x8 TREATED POST WRAPPED WITH SMART TRIM

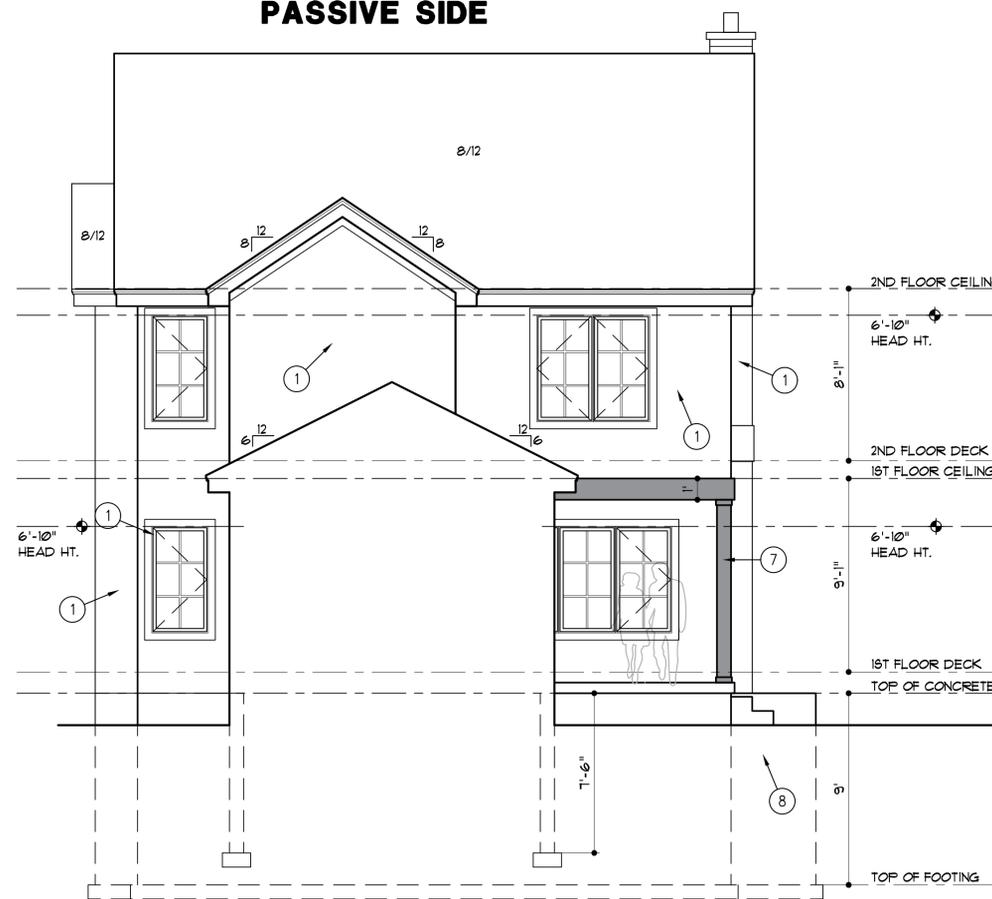
8. CONCRETE EGRESS WINDOW WELL. WINDOW SET AT MAX. 44" FROM FINISH FLOOR TO SILL



RIGHT SIDE ELEVATION
1/4" = 1'-0"



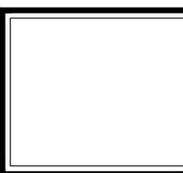
REAR ELEVATION
1/4" = 1'-0"



PARTIAL REAR ELEVATION
1/4" = 1'-0"

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DRAWN BY: MP
DATE: 9-16-25
REVISION DATE:
PROJECT NO: 25-021-01

SHEET NO
A52

FOR CONSTRUCTION AS NOTED ON PLANS REVIEW
10/16/2025 3:25:02

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ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes AFF ABOVE FINISH FLOOR, C.A.A. CHROMIATED COPPER ARSENATE, C.J. CONTROL JOINT, CLG. CEILING, C.O. CROSED OPENING, D. DRYER, D.H. DOUBLE HUNG, DIA. DIAMETER, D.W. DOWN, D.W.J. 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, L.B. (*) FOUND, L.V.L. LAMINATED VENEER LUMBER, MAX. MAXIMUM, MIN. MINIMUM, MICRO. MICROVAPE OVEN, O.H. ON CENTER, O.R. OVERHEAD / OVERHANG, P. PAIR, R. RISER, REF. REFRIGERATOR, RM. ROOM, R.O. ROOF, S.F. SQUARE FEET, S.M. SQUARE METERS, S.Q. SQUARE, T.C. TREAD, T.V. TRASH COMPACTOR, T.V.P. TELEVISION, W. TYPICAL, W.A. WASHER, W.I.C. WITH, W.J. WALK IN CLOSET, W.W.H. WATER HEATER, W.W.F. WELDED WIRE FABRIC

LOAD AND DEFLECTION LIMITATIONS

Table with 4 columns: AREA, CONDITION, LIVE LOADS (P.S.F.), MIN LOADS (P.S.F.). Rows include DECKS, CEILING JOISTS, STORAGE ALLOWED, FLOORS (NON-SLEEPING, SLEEPING AREAS), ROOFS (WOOD OR COMPOSIT, TILE OR CONCRETE), STAIRS, HANDRAIL/GUARDRAIL.

NOTE:
- WIND SPEED 90 MPH (CATEGORY AS DEFINED BY R3012.1.4)
* TILE FLOOR LOAD BASED ON THINSET METHOD.

BUILDING INSULATION SCHEDULE

Table with 2 columns: Opening Maximum U-Value and Building Component Minimum R-Value. Rows include Windows, Opaque Doors, Glass Doors, Skylight, Glazed Fenestration, Ceiling, Wall, Floors, Ducts in Unheated Spaces.

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 GEOTECHNICAL CRITERIA OF WEATHERING CONDITIONS, MODERATE TO SEVERE TERMITES CONDITIONS, MODERATE DECAY CONDITIONS, 6 DEGREES FAHRENHEIT AND 5,333 HEATING DEGREE DAYS WINTER DESIGN TEMPERATURE CONDITIONS, 36 INCHES FROST LINE DEPTH CONDITIONS AND FLOOD HAZARDS BASED UPON THE LATEST ADOPTED FIR.M. AND F.B.F.M. DOCUMENTS IN ACCORDANCE WITH L.B.C. ARTICLE 4-305.

GENERAL NOTES

A. GLASS: PROVIDE SAFETY GLAZING WHERE REQUIRED BY IRC R308 AND IN THE FOLLOWING LOCATIONS: 1. STORM 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 ENCLONG 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, INCLUDING GARAGE DOORS, SHALL BE DESIGNED TO RESIST WIND LOADS SPECIFIED IN IRC TABLE R3012.1(4). EXTERIOR OVERHEAD DOORS SHALL MEET D.A.S.M.A. 1B IFB REQUIREMENTS.
C. BEDROOM EGRESS: 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. PER IRC 312.2.
D. STAIRWAYS: MAXIMUM RISE 7/8", 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 NEWEL POST OR SAFETY TERMINAL. 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" CONNECT THE RAILSTERS. BALUSTERS SHALL NOT CREATE A LADDER.
F. DOOR BETWEEN THE GARAGE AND DWELLING 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 ACCESS 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 CODES OF THE CITY IN WHICH THIS PROJECT IS LOCATED. FOR CITY OF RAYMORE SEE SECTION R324 "PHYSICAL SECURITY" OF MUNICIPAL CODE.

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 DWELLING UNITS USING FUEL-FIRED APPLIANCES OR IN DWELLING UNITS WITH ATTACHED GARAGES, INSTALL CARBON MONOXIDE ALARMS OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
C. GROUND FAULT CIRCUIT INTERRUPTER PROTECTION (GFCI) SHALL BE INSTALLED IN RECEPTACLES IN BATHROOMS, KITCHENS, GARAGES, UNFINISHED BASEMENTS, OUTDOORS, CRAWL SPACES, AND WITHIN 6' OF ANY SINK, BATHROOM RECEPTACLES REQUIRE SEPARATE 20-AMP CIRCUIT. PROVIDE ARC-FAULT CIRCUIT INTERRUPTERS AS REQUIRED BY IRC E3902.12 OR AS REQUIRED BY MUNICIPALITY.
D. FIREPLACE: FACTORY-BUILT FIREPLACE WILL BE EQUIPPED WITH LISTED COMPONENT FOR OUTSIDE COMBUSTION AIR PER IRC 1002B 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 1601.31
H. ELECTRICAL CONDUCTORS SHALL BE COPPER AND THE PANEL BOX SHOULD BE 200 AMP

CONCRETE NOTES

A. CONCRETE: ALL CONCRETE SHALL BE 5-1% 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 LBNEXA)
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: "BONESSEAL" ASPHALT EMULSION DAMPPROOFING REQUIRED FOR WALLS ENCLONGING 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 ENCLONGING 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 PIT 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) 6 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 1.9 x 10^6 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 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.
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 4'S 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. "I" JOISTS (IF USED) SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
F. PROVIDE BLOCKING OR BRIDGING AT CANTILEVERS.

FRAMING NOTES - WALLS

A. SIZE, HEIGHT AND SPACING: UNLESS OTHERWISE NOTED, STUDS SHALL BE 2x4 DPT'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 12' 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 PLATE OR CEILING DIAPHRAGM, EXCEPT FOR JACK STUDS, TRIMMER OR CRIPPLE STUDS. PER IRC 602.3.

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

C. FRAMING DETAILS: BEARING AND EXTERIOR WALL STUDS SHALL BE CAPPED WITH DOUBLE TOP PLATES INSTALLED TO PROVIDE OVER-LAPPING AT CORNERS AND AT INTERSECTIONS WITH OTHER PARTITIONS. END JOISTS 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 BEAMS.

- 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 15 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 ATTACHED 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 507.

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 FURLING AND HIPS, RIDGES, AND VALLEYS SHOWN 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 CROSSIES AT EACH RAFTER AND THEN LOCATED AS CLOSE TO THE CEILING JOISTS AS POSSIBLE (RE: DETAIL 3 4 4/3).

D. RAFTER COLLAR TIES: PROVIDE 1x4 MIN. COLLAR TIES AT 48" O.C. (RE: DETAIL 3 4 4/3). 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 PITCHES, 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 1/80 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 EAVES OR CORNICE VENTS. RAFTER 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 (TPI) DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES AND THE NATIONAL DESIGN SPECIFICATION FOR ANGI/NFOPA 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 ENVELOPE IS REQUIRED TO BE SEALED (IRC N102.41)
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

Table with 3 columns: CONNECTION, NAILS, LOCATION. Rows include JOIST TO SILL OR GIRDER, BRIDGING TO JOIST, SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANELS, SOLE PLATE TO JOIST / BLOCKING AT BRACED WALL PANELS, TOP PLATE TO STUD, STUD TO SOLE PLATE, DOUBLE STUDS, DOUBLE TOP PLATES, BLOCKING BETWEEN JOISTS AND RAFTERS TO TOP PLATE, RIM JOIST TO TOP PLATE, TOP PLATE LAPS AND INTERSECTIONS, CONTINUOUS HEADER 2 PIECES, CEILING JOISTS TO TOP PLATE, CONTINUOUS HEADER TO STUD, CEILING JOISTS, LAPS OVER PARTITIONS, CEILING JOISTS TO PARALLEL RAFTERS/ RAFTER TIES TO RAFTERS, RAFTER TO PLATE, 1" DIAGONAL BRACE TO EACH STUD AND PLATE, BUILT UP CORNER STUDS, BUILT UP BEAMS, STAGGER NAILS ON OPPOSITE SIDES, BUILT UP BEAMS AT ENDS AND SPLICES, COLLAR TIE TO RAFTER, JACK RAFTER TO HIP, ROOF RAFTER TO 2 x RIDGE BEAM, JOIST TO BAND JOIST, LEDGER STRIP, 3/4" OR LESS WOOD STRUCTURAL PANEL WALL, SUBFLOOR, 4 ROOF SHEATHING, 1/8" TO 1" WOOD STRUCTURAL PANEL WALL, SUBFLOOR, 4 ROOF SHEATHING, 1 1/8" TO 1 1/4" WOOD STRUCTURAL PANEL WALL, SUBFLOOR, 4 ROOF SHEATHING, HARDBOARD SIDING, 1/2" GYPSUM SHEATHING, 5/8" GYPSUM SHEATHING, WOOD I JOISTS AT EACH END AND BEARING POINT.

NOTE:
1. ON 1/2" GYPSUM SHEATHING, 1 1/4" TYPE U OR S SCREWS MAY BE USED IN LIEU OF NAILS. ON 5/8" SHEATHING, THE SCREWS ARE TO BE 1 3/8" LONG. THE SPACING IS THE SAME AS THE NAILS.

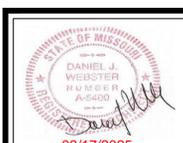
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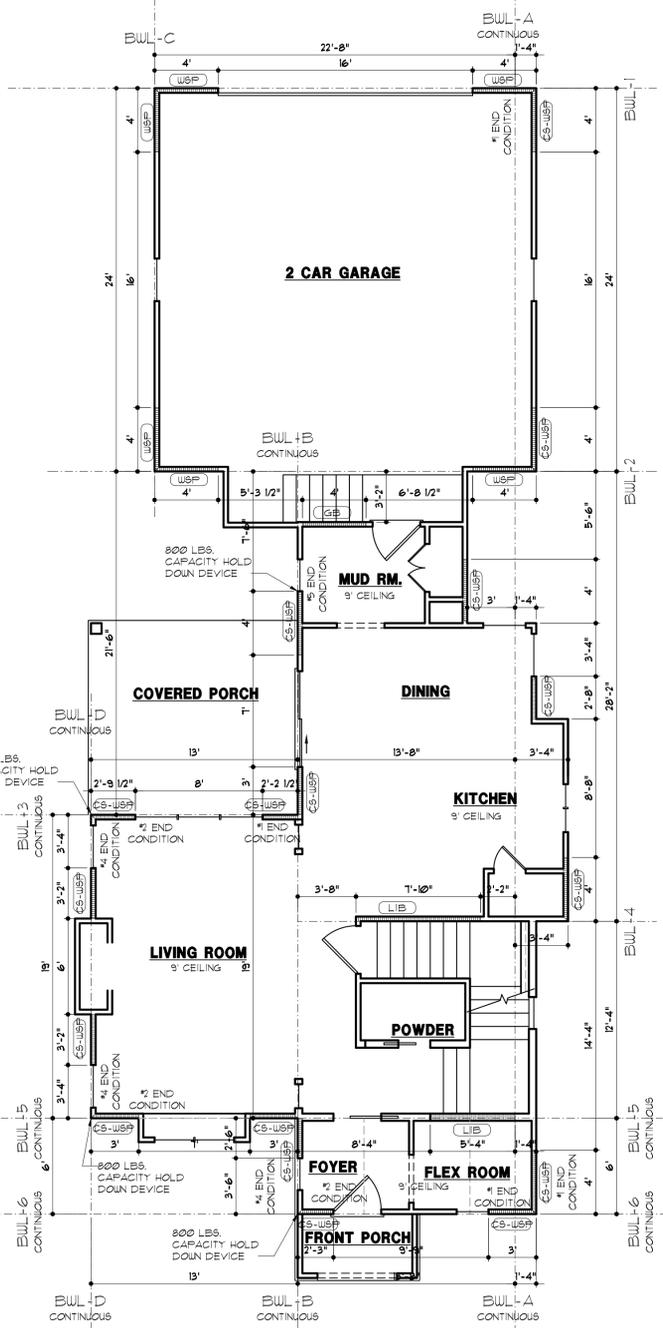
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PROJECT NO: 25-021-01

SHEET NO



FOR 24x36 SHEET		BRACED WALL SCHEDULE		4-5-22
METHOD NUMBER	DESCRIPTION	MINIMUM LENGTH	FASTENERS	
LIB	LET-IN-BRACING: METAL STRAPS TO FORM "X" OR "V" INSTALLED PER MANUFACTURER (SIMPSON: WB126C, TWB12, WB143C) (USP: RWB114, WBT12)	AS REQUIRED TO ALLOW BRACE TO BE CONTINUOUS FROM PLATE TO PLATE AND AT AN ANGLE BETWEEN 45° TO 60° FROM HORIZONTAL	PER MANUFACTURER'S REQUIREMENTS	
WSP	WOOD STRUCTURAL PANEL- 3/8" THICK (MIN.) FOR STUDS AT 16" O.C. (APA EXP. 1- PLYWOOD/O.S.B./ ETC.)	MIN. 48"	6d COMMON NAILS, 6" O.C. AT EDGES AND 12" O.C. AT INTERMEDIATES	
CS-WSP	CONTINUOUS SHEATHING- WOOD STRUCTURAL PANEL: 3/8" THICK (MIN.) (APA EXP. 1- PLYWOOD/O.S.B.)	CONTINUOUS ON ALL EXTERIOR WALLS	6d COMMON NAILS, 6d COMMON NAILS - 6" O.C. AT EDGES AND 12" O.C. AT INTERMEDIATES	
GB	GYPSUM BOARD: 1/2" THICK MIN.	96" IF GYP. BOARD 1 SIDE 48" IF GYP. BOARD 2 SIDES (STUDS AT 16" O.C. MAX. FOR 48" LONG PANELS)	6d NAILS OR 1-1/4" SCREWS (TYPE W OR S) - 7" O.C. AT EDGES AND 7" O.C. AT INTERMEDIATES (CAN SUBSTITUTE COOLER NAILS)	
PFH/PFG	PORTAL FRAME GARAGE: WITH HOLD-DOWNS PFG MIN. 7/16" PFH MIN. 3/8"	REFER TO DETAIL TITLED 'METHOD CS-PF BRACED WALL' FOR MIN. WALL LENGTH	PER DETAIL TITLED 'METHOD CS-PF BRACED WALL'	
CS-PF	CONTINUOUS SHEATHING- PORTAL FRAME	REFER TO DETAIL TITLED 'METHOD CS-PF BRACED WALL' FOR MIN. WALL LENGTH	PER DETAIL TITLED 'METHOD CS-PF BRACED WALL'	

NOTES:
A. SEE [XXX] ON BRACED WALL PLAN FOR BRACED WALL METHOD.



FIRST FLOOR DIAGRAM
3/16" = 1'-0"

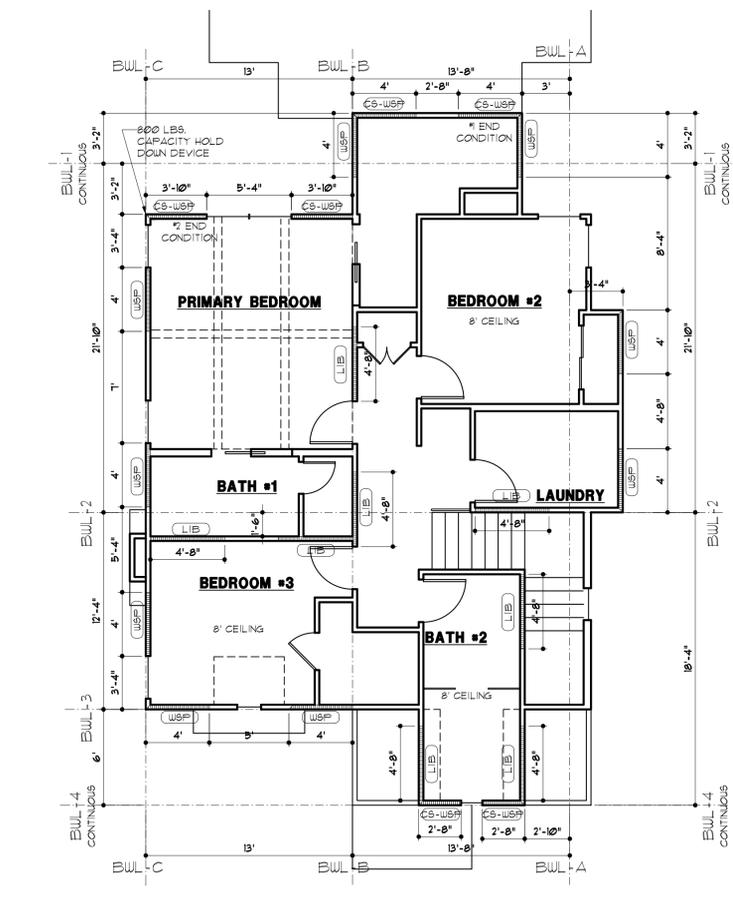
BRACED WALL DESIGN:

A. THE CONTINUOUSLY SHEATHED (CS-WSP) BRACED WALL METHOD HAS BEEN USED ON ALL EXTERIOR WALLS PER THE I.R.C.

B. AT EXTERIOR WALLS AND AT THE WALL BETWEEN THE GARAGE AND THE LIVING SPACE, ATTACH WALL SOLE PLATE TO ALL RIM JOISTS (THROUGH SUB-FLOOR) WITH 16d COMMON (2.0x3 1/2") NAILS @ 12" O.C.

C. ALL EXTERIOR WALLS SHALL BE SHEATHED PER ONE OF THE FOLLOWING OPTIONS:

- 3/4" APA-RATED PLYWOOD/O.S.B. WITH 8d NAILS @ 4" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD
- 3/4" SHIPLAP PANEL SHEATHING (I.E. LP SMARTSIDE OR EQUIVALENT) WITH 8d NAILS @ 4" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD PER DETAIL 2/G3
- 3/8" SHIPLAP PANEL SHEATHING (I.E. LP SMARTSIDE OR EQUIVALENT) WITH 6d NAILS @ 3" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD PER DETAIL 2/G3



SECOND FLOOR DIAGRAM
3/16" = 1'-0"

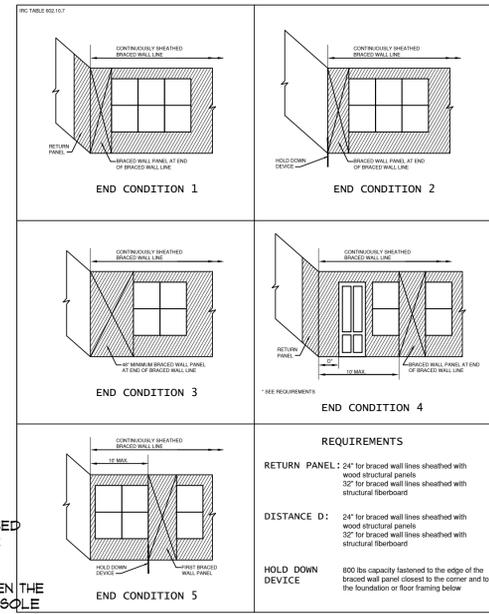
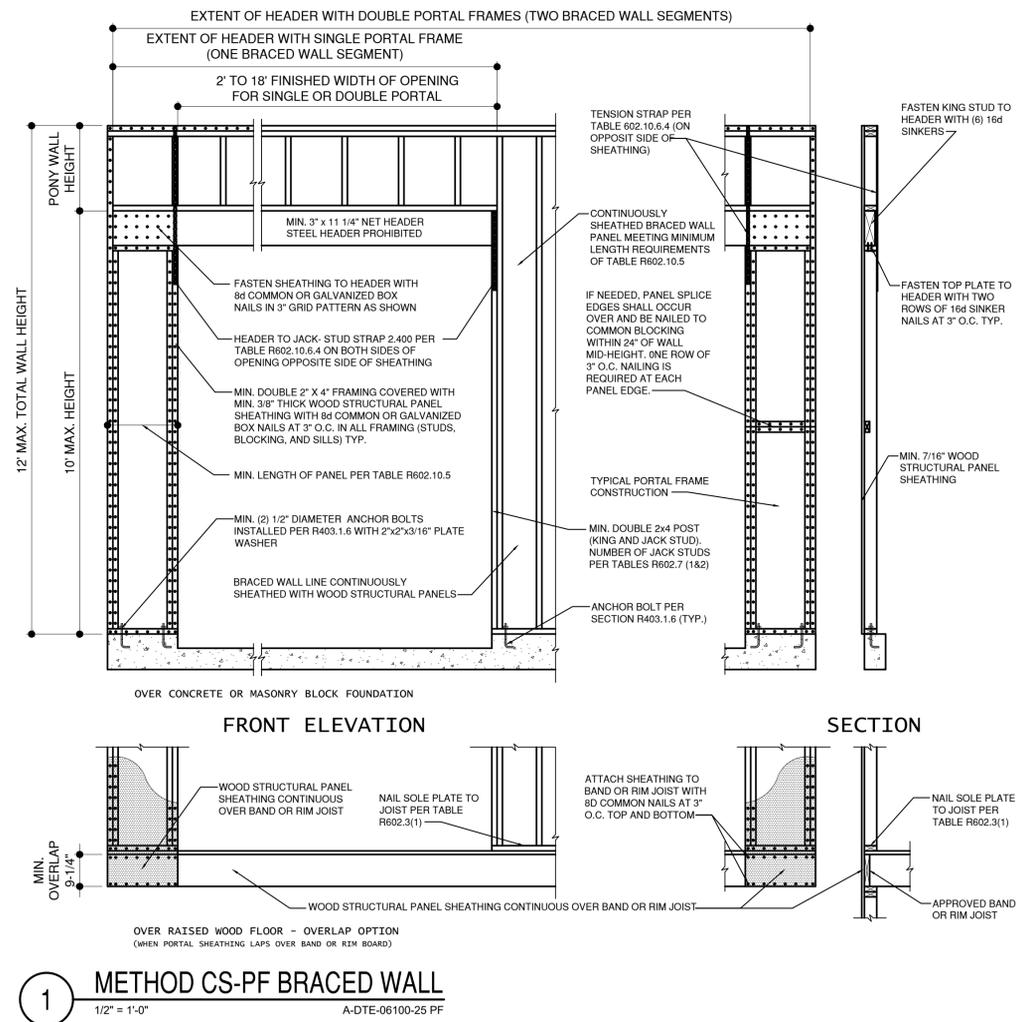


TABLE R602.10.6.4
TENSION STRAP CAPACITY REQUIRED FOR RESISTING WIND PRESSURES PERPENDICULAR TO METHOD PFH,PFG, AND CS-PF BRACED WALL PANELS

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)			EXPOSURE B			EXPOSURE C		
				110	115	130	110	115	130			
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	1,750			
				16	1,000	1,025	2,050	2,075	3,950			
	1	10	18	9	1,200	1,275	2,375	2,400	2,850	DR		
					16	1,000	1,000	1,475	1,500	1,875	3,125	
					18	1,200	1,275	2,375	2,400	2,850	DR	
	2	10	18	9	1,775	2,175	3,525	3,550	4,125	DR		
					16	2,075	2,500	3,950	3,975	DR		
					18	1,150	1,500	2,650	2,675	3,175	DR	
	2	12	18	9	2,875	3,375	DR	DR	DR	DR		
					16	3,425	3,975	DR	DR	DR	DR	
					18	2,275	2,750	DR	DR	DR	DR	
4	12	18	9	3,225	3,775	DR	DR	DR	DR			
				16	1,825	2,150	3,225	3,225	3,675	DR		
				18	2,200	2,550	3,725	3,750	DR	DR		
2	12	18	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.



METHOD CS-PF BRACED WALL
1/2" = 1'-0" A-DTE-06100-25 PF

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REGISTERED ARCHITECT
09/17/2025

DRAWN BY: MP
DATE: 9-16-25
REVISION DATE:
PROJECT NO: 25-221-21

SHEET NO. 04

REVISIONS
CONSTRUCTION
AS NOTED IN PLANS REVIEW
DESIGN SERVICES
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