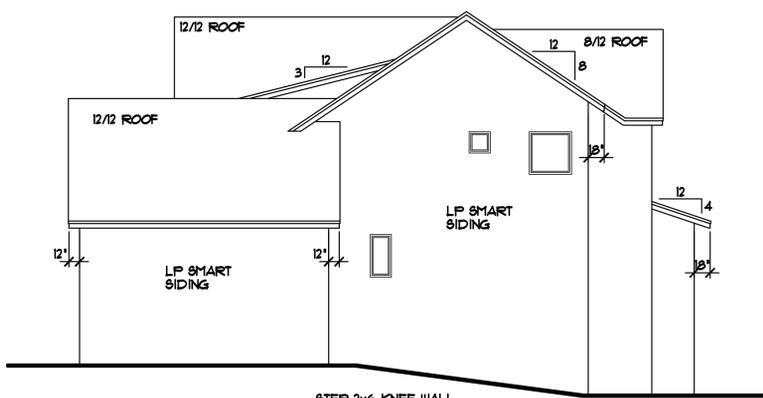


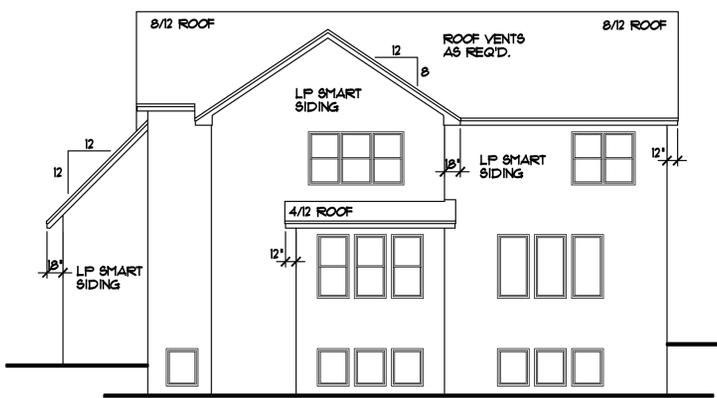
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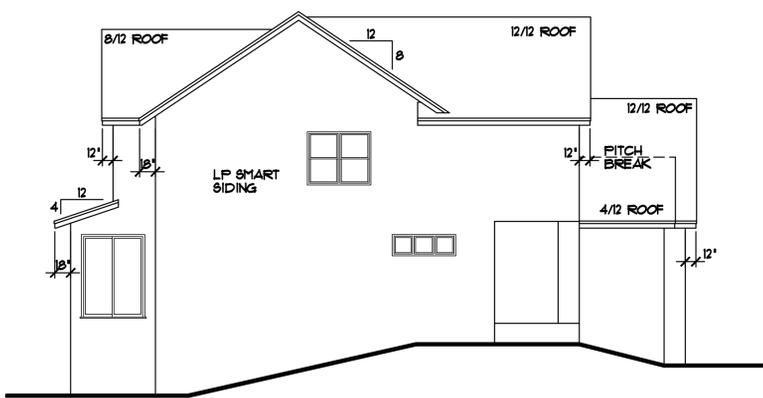
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**RIGHT ELEVATION** 1/8"=1'-0"



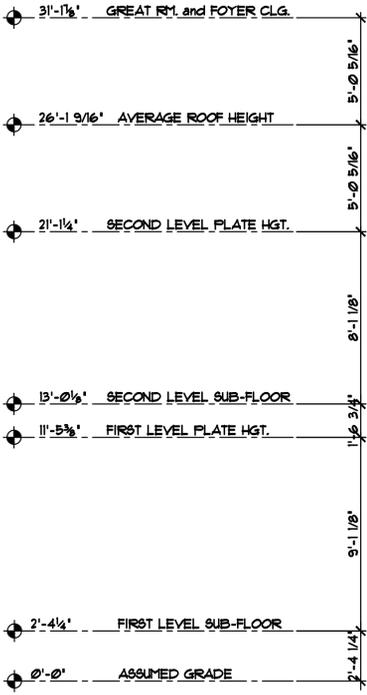
**REAR ELEVATION** 1/8"=1'-0"



**LEFT ELEVATION** 1/8"=1'-0"

3 STEP 2x6 KNEE WALL, CONC. WALL 4 FTG. PER GRADE (FIELD VERIFY)

3 STEP 2x6 KNEE WALL, CONC. WALL 4 FTG. PER GRADE (FIELD VERIFY)



LEVEL	R.C.H.	TOP OF WINDOW RO.
BASEMENT	8'-2"	6'-10 1/2"
MAIN LEVEL	9'-1 1/8"	7'-10 1/2"
UPPER LEVEL	8'-1 1/8"	6'-10 1/2"

- GENERIC WINDOWS SPEC'D.
- MAINTENANCE FREE SOFFITS & FASCIA
- BOARD & BATTEN SIDING WHERE SHOWN
- LP SMART SIDING/CORNER TRIM (TYP.)
- WINDOW/DOOR TRIM WHERE SHOWN
- STONE VENEER WHERE SHOWN

**ROOF CONSTRUCTION NOTES**

- PROVIDE 12' HEELS @ UPPER LEVEL 8/12 ROOF TRUSSES w/ 18' OVERHANGS.
- ADJUST HEELS OF 12/12 UPPER LEVEL ROOF TRUSSES w/ 18' HEELS TO MATCH EAVES w/ UPPER LEVEL 8/12 ROOFS
- PROVIDE 18' HEELS @ UPPER LEVEL 3/12 SHED ROOF TRUSSES
- PROVIDE STANDARD ENERGY HEELS @ MAIN LEVEL 4/12 ROOF TRUSSES w/ 18' OVERHANGS. ADJUST HEELS OF MAIN LEVEL 12/12 TRUSSES w/ 18' OVERHANGS TO MATCH EAVES w/ 4/12 ROOF TRUSSES

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

1545 SQFT. FIRST LEVEL  
1100 SQFT. SECOND LEVEL  
3251 SQFT. ABOVE GRADE

**NOTE III**  
EXTERIOR DOORS & GARAGE DOORS ARE REPRESENTATION ONLY. VERIFY EXACT STYLE OF DOORS w/ BUILDER

**NOTE III**  
ALL FLOOR PLANS, CROSS SECTIONS & ROOF DESIGNS REFLECT ELEVATION "A" AND SHOULD BE MODIFIED IF OTHER ELEVATIONS ARE USED

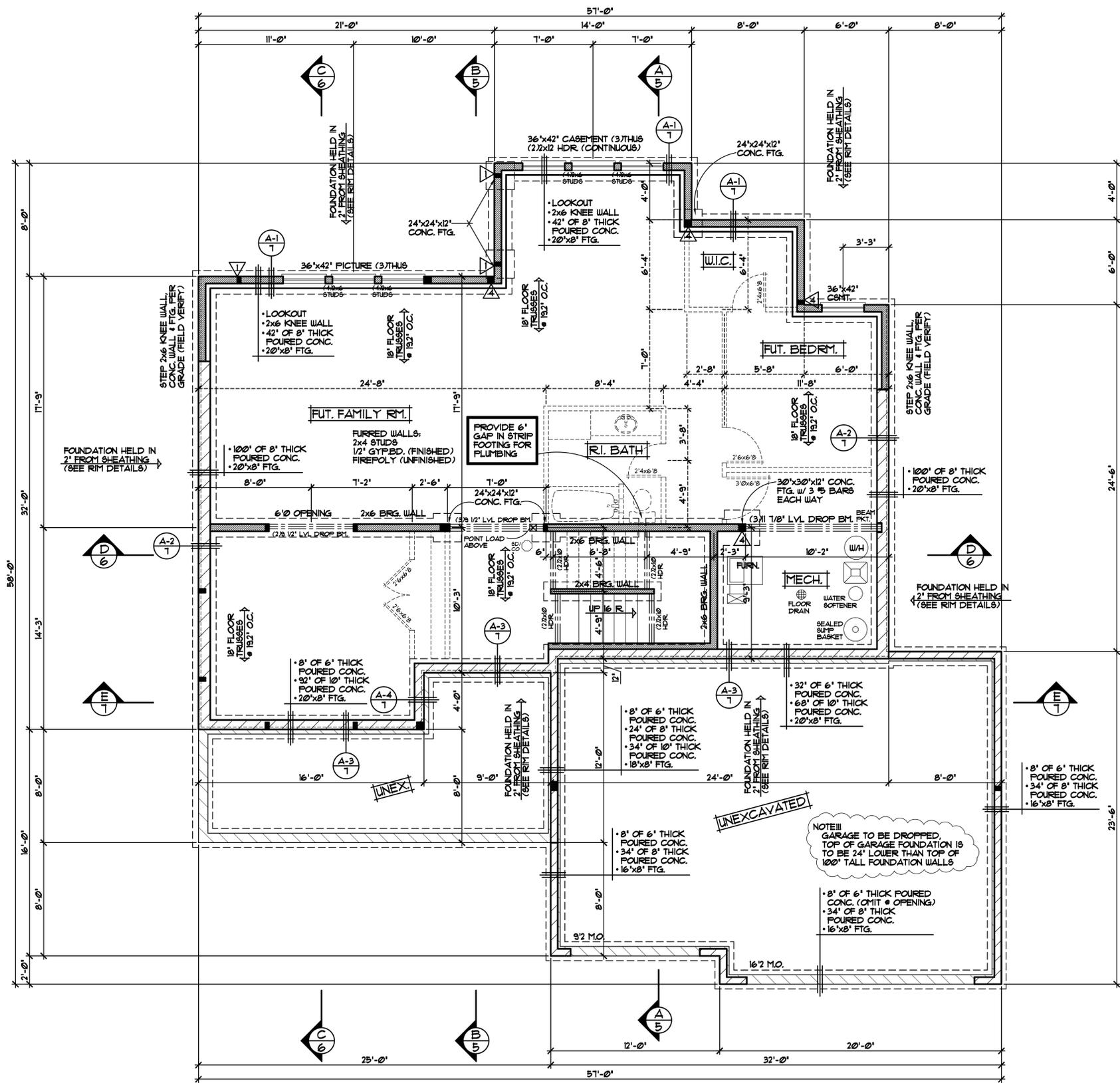
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# HARSTAD HOMES

DRAWN	R.B.
CHECKED	XX
DATE:	03/20/2024
SCALE:	AS NOTED
CADD FILE #	24030



**FOUNDATION PLAN** 1/4"=1'-0"  
UNFINISHED BASEMENT

BEARING POST TABLE	
△	DOUBLE TRIMMERS
△	TRIPLE TRIMMERS
△	(2)2x6 BRG. POST
△	(3)2x6 BRG. POST
△	6x6 BRG. POST
△	5 1/4"x5 1/4" PSL POST

VERIFY ALL BEARING POST SIZES w/ BUILDER/SUPPLIER

NOTE!!! VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS, LOCATIONS ON PLAN ARE REPRESENTATION ONLY

**FRAMING & CONSTRUCTION NOTES**

- 8'-2" PLATE HEIGHT @ ENTIRE LOWER LEVEL (UNLESS NOTED OTHERWISE)
- PROVIDE 1/2" GYP. BD. @ BASEMENT CEILING & ALLOW 80 SQFT. (MAX) OPEN CLG. AREA FOR MECHANICAL, FIRE BLOCK TRUSS SPACE @ PERIMETER OF OPEN AREA
- FLOOR TRUSS DEFLECTION IS TO BE L/480 MINIMUM
- ALTERNATE HEADER/BEAM SIZES & TYPES MAY BE SPECIFIED BY SUPPLIER

**FOUNDATION CONST. NOTES**

- POURED CONCRETE FOUNDATION, VERIFY ALL WALL DIMENSIONS w/ FOUNDATION CONTRACTOR
- ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO OUTSIDE OF EXTERIOR FOAM BOARD INSUL. OR SHEATHING, FOUNDATION TO BE HELD IN WHERE NOTED/SHOWN
- PROVIDE 2" RIGID FOAM BOARD INSULATION @ EXTERIOR FOUNDATION WALLS & 1" RIGID FOAM BOARD INSULATION AT INTERIOR SIDE OF FOUNDATION WALLS (TYP.)
- INSULATION & AIR BARRIER TO BE CONT. OVER TOP OF FOUNDATION WALLS (TYP.)

**DOOR & WINDOW NOTES**

- ANDERSEN WINDOWS SPECIFIED, VERIFY ROUGH OPENING SIZES FOR DOORS & WINDOWS w/ MANUFACTURER
- WINDOWS WITH "S" REQUIRE A SASH STOPPER (TYP.)
- ALL WINDOW & DOOR OPENINGS TO HAVE (2)2x10 2 GRADE HEADER OR BETTER (UNLESS NOTED OTHERWISE)
- TOP OF R.O. FOR ALL WINDOWS ON LOWER LEVEL TO BE 6'-10 1/2" FROM FLOOR (UNLESS NOTED OTHERWISE)

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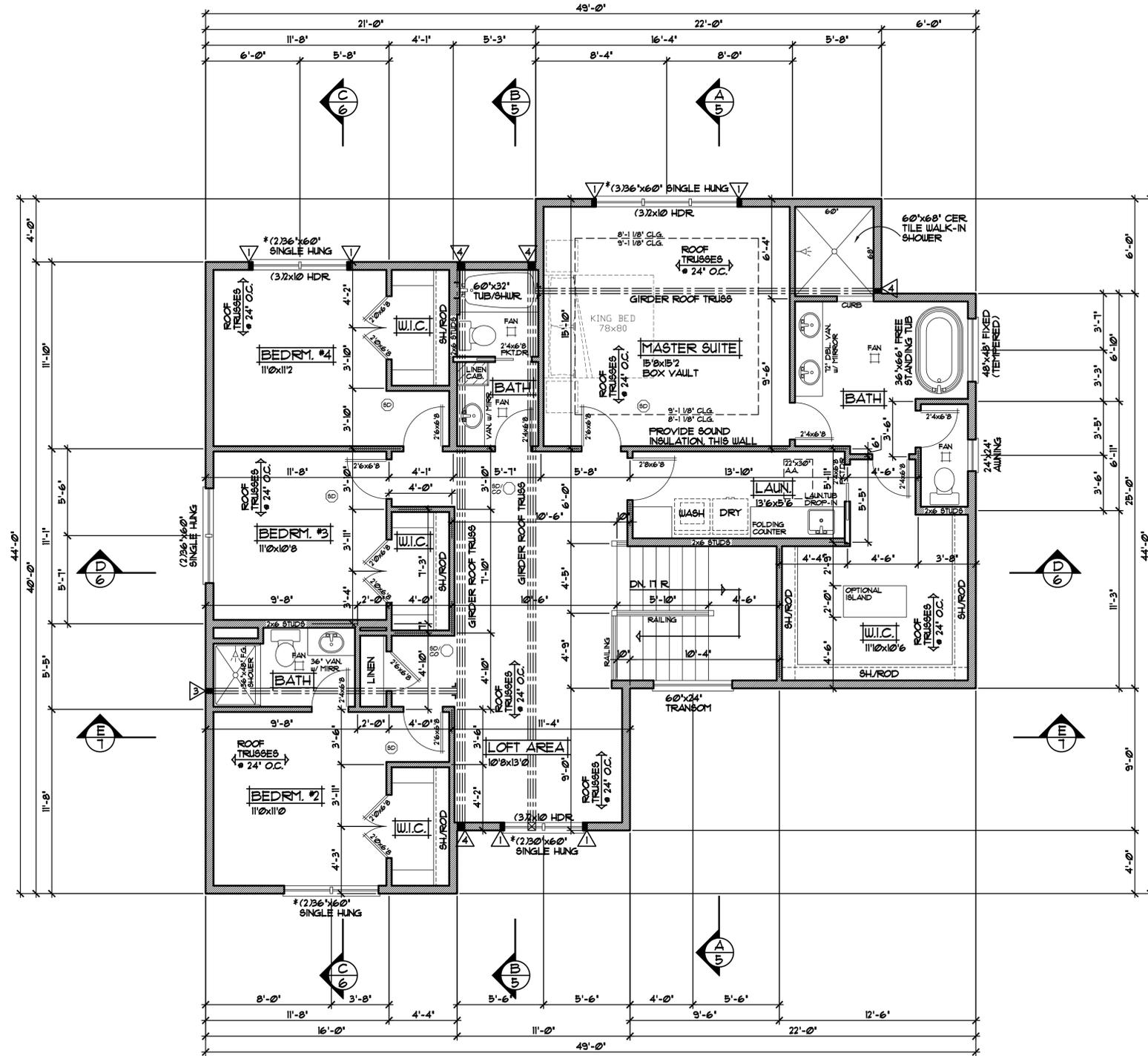
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**SECOND FLOOR PLAN** 1/4"=1'-0"  
1106 SQ. FT.

BEARING POST TABLE	
△	DOUBLE TRIMMERS
△	TRIPLE TRIMMERS
△	2/2x6 BRG. POST
△	3/2x6 BRG. POST
△	6x6 BRG. POST
△	5/4x5/4' F8L POST

VERIFY ALL BEARING POST SIZES W/ BUILDER/SUPPLIER

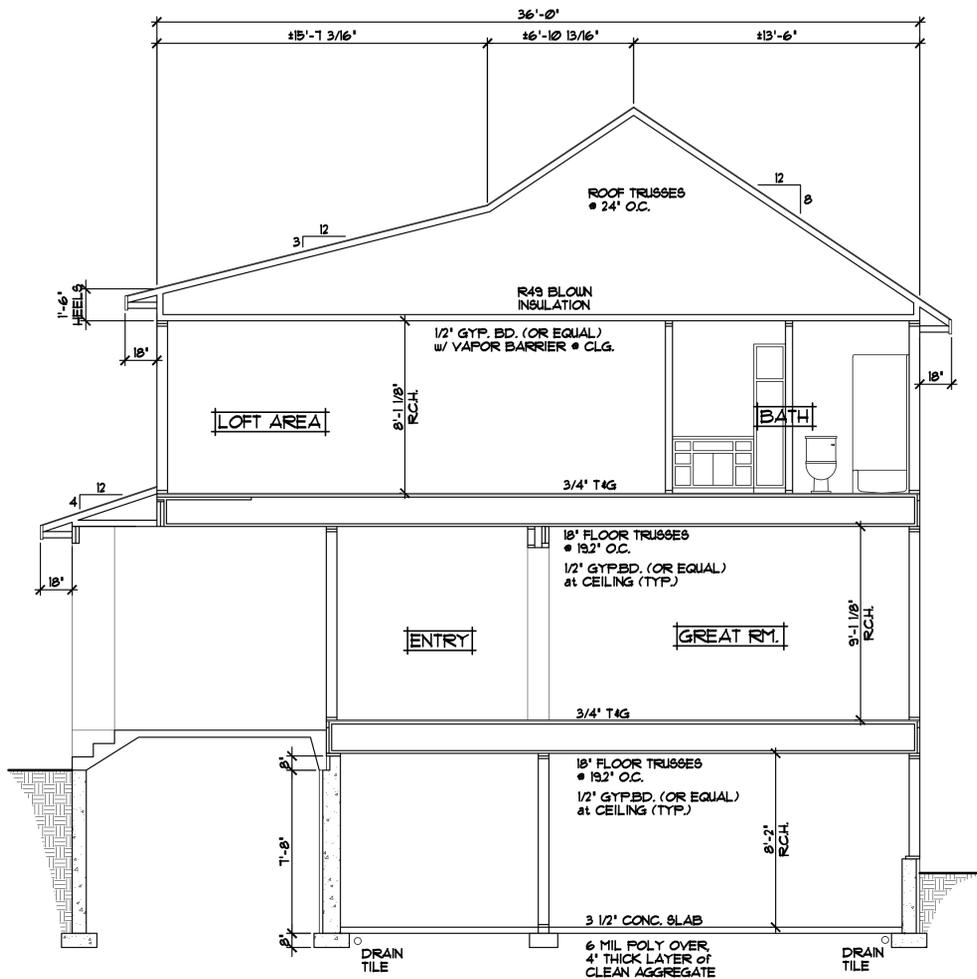
**FRAMING NOTES**

- 8'-1 1/8" FLATE HEIGHT • ENTIRE UPPER LEVEL (UNLESS NOTED OTHERWISE)
- FLOOR TRUSS DEFLECTION IS TO BE L/480 MINIMUM
- ALTERNATE HEADER/BEAM SIZES & TYPES MAY BE SPECIFIED BY SUPPLIER

**DOOR & WINDOW NOTES**

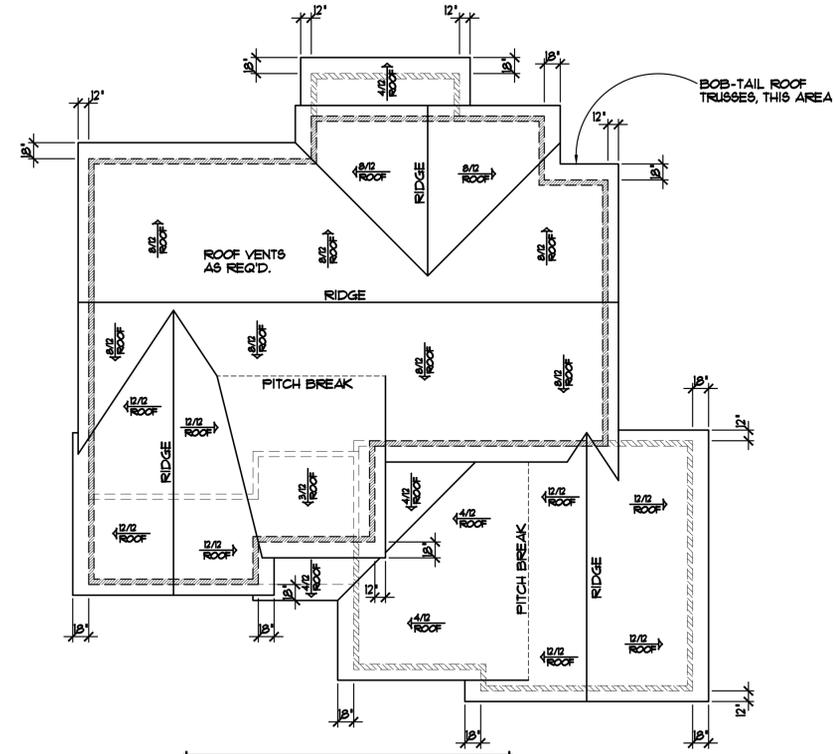
- ANDERSEN WINDOWS SPECIFIED, VERIFY ROUGH OPENING SIZES FOR DOORS & WINDOWS W/ MANUFACTURER
- WINDOWS WITH "S" REQUIRE A SASH STOPPER (TYP.)
- ALL WINDOW & DOOR OPENINGS TO HAVE (2/2x10) 1/2 GRADE HEADER OR BETTER (UNLESS NOTED OTHERWISE)
- TOP OF R.O. FOR ALL WINDOWS ON UPPER LEVEL TO BE 6'-10 1/2" FROM SUB-FLOOR (UNLESS NOTED OTHERWISE)

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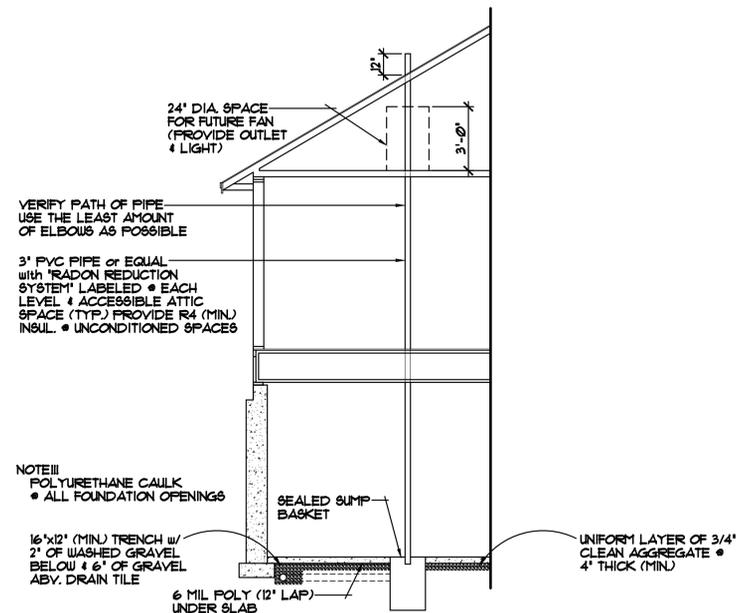


CROSS SECTION "B" 1/4"=1'-0"

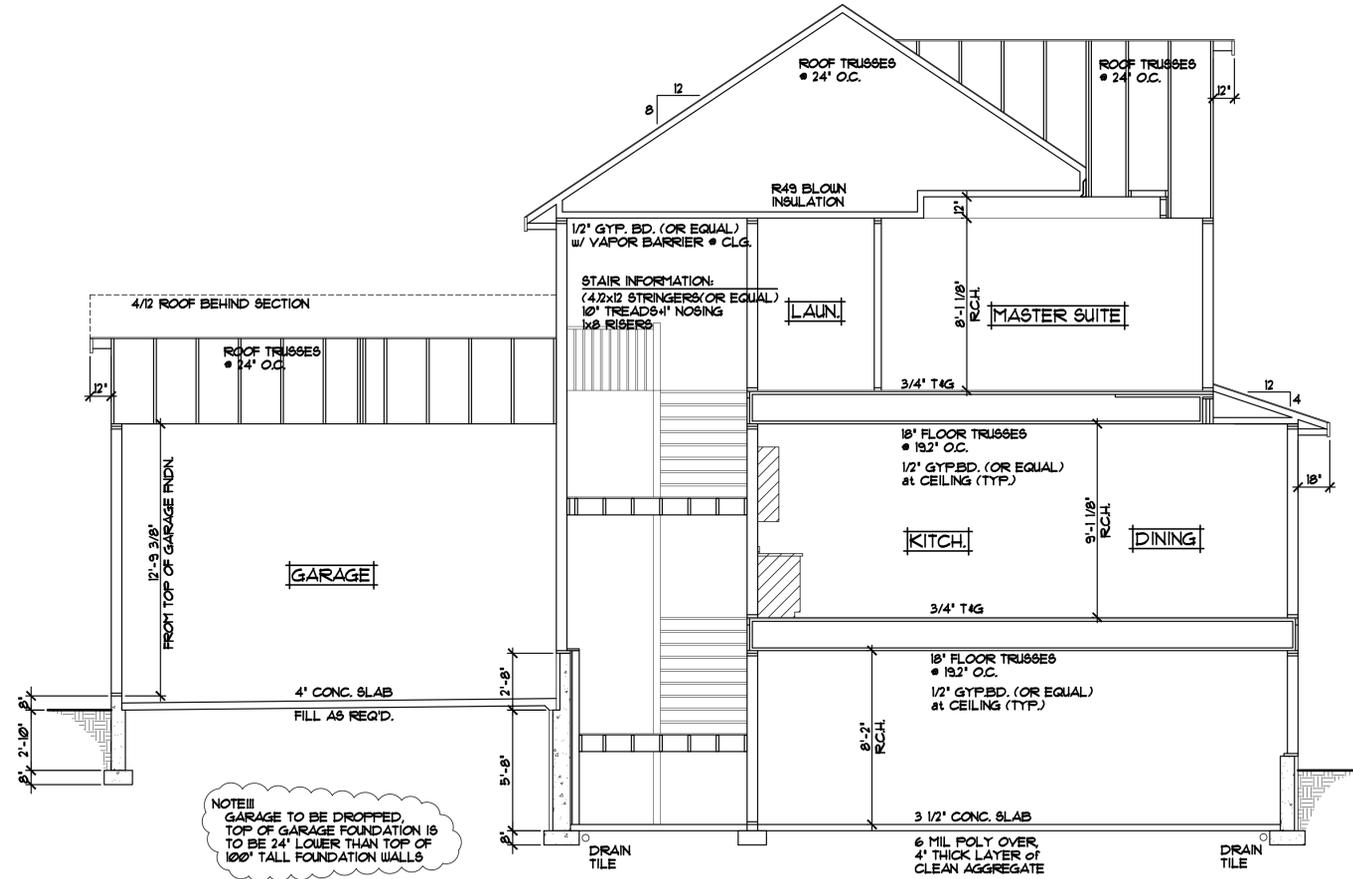
- ROOF CONSTRUCTION NOTES**
- PROVIDE 12" HEELS • UPPER LEVEL 8/12 ROOF TRUSSES w/ 18" OVERHANGS.
  - ADJUST HEELS OF 12/12 UPPER LEVEL ROOF TRUSSES w/ 18" HEELS TO MATCH EAVES w/ UPPER LEVEL 8/12 ROOFS
  - PROVIDE 18" HEELS • UPPER LEVEL 3/12 SHED ROOF TRUSSES
  - PROVIDE STANDARD ENERGY HEELS • MAIN LEVEL 4/12 ROOF TRUSSES w/ 18" OVERHANGS. ADJUST HEELS OF MAIN LEVEL 12/12 TRUSSES w/ 18" OVERHANGS TO MATCH EAVES w/ 4/12 ROOF TRUSSES



BIRD'S EYE ROOF PLAN 1/8"=1'-0"



ALTERNATE METHOD FOR PASSIVE RADON MITIGATION SYSTEM



CROSS SECTION "A" 1/4"=1'-0"

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HARSTAD HOMES

**ROOF CONSTRUCTION NOTES**

- PROVIDE 12' HEELS • UPPER LEVEL 8/12 ROOF TRUSSES w/ 18' OVERHANGS.
- ADJUST HEELS OF 12/12 UPPER LEVEL ROOF TRUSSES w/ 18' HEELS TO MATCH EAVES w/ UPPER LEVEL 8/12 ROOFS
- PROVIDE 18' HEELS • UPPER LEVEL 3/12 SHED ROOF TRUSSES
- PROVIDE STANDARD ENERGY HEELS • MAIN LEVEL 4/12 ROOF TRUSSES w/ 18' OVERHANGS. ADJUST HEELS OF MAIN LEVEL 12/12 TRUSSES w/ 18' OVERHANGS TO MATCH EAVES w/ 4/12 ROOF TRUSSES

**ROOF CONSTRUCTION:**

- PREMANUFACTURED ROOF TRUSSES - ENGINEERED BY SUPPLIER - SLOPES VARY - SEE PLAN
- R49 BLOWN FIBERGLASS INSULATION
- 1/18" ROOF VENT AT SOFFITS, 1/18" VENT AT RIDGE
- AIR CHUTE AT EACH TRUSS SPACE
- 15/32" ROOF SHEATHING
- 15" ROOFING FELT
- ICE & WATER MEMBRANE APPLIED 24" PAST EXTERIOR WALL
- ASPHALT SHINGLES,

**SOFFIT / FASCIA:**

- 2x6 SUB-FASCIA
- MAINTENANCE FREE FASCIA COVER
- MAINTENANCE FREE VENTED SOFFIT

**WALL CONSTRUCTION:**

- HOUSE WRAP
- 1/16" OSB SHEATHING
- 2x6 STUDS • 16" O.C.
- WINDOWS PER SPEC'S.
- R-20 FG. BATT INSULATION
- 4 MIL POLY VAPOR RETARDER
- 1/2" GYPSUM BOARD

**RIM AREA CONSTRUCTION:**

- CLOSED CELL SPRAYED FOAM INSUL. R20 (MINIMUM) • RIM AREA AND R30 (MINIMUM) • CANTS.

**WALL CONSTRUCTION:**

- SIMILAR TO ABOVE

**SILL CONSTRUCTION:**

- 2x8 SILL PLATE & SEALER (2x6 PLATE • WALKOUT AREAS)
- 1/2" ANCHOR BOLTS • 48" O.C.

**FOUNDATION CONSTRUCTION:**

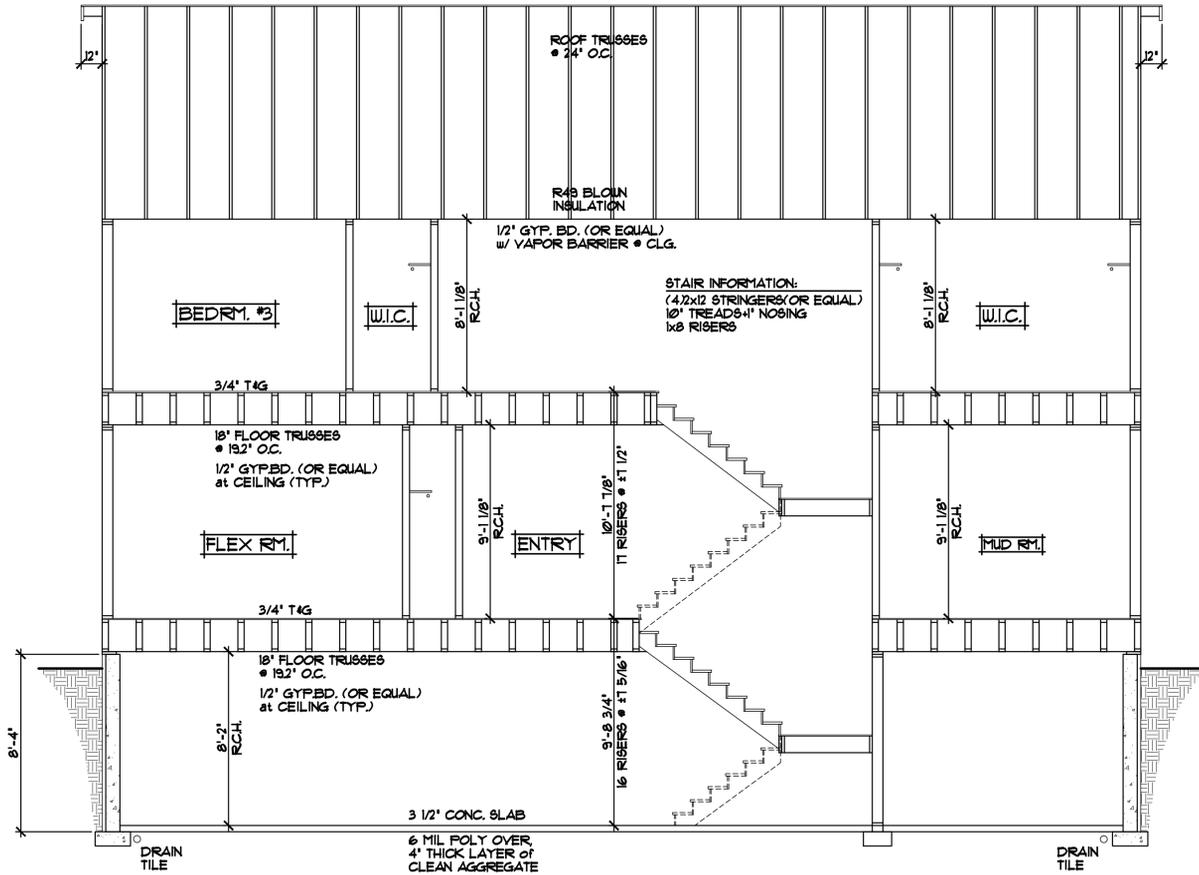
- POURED CONCRETE WALL FOUNDATION (WALL THICKNESS VARIES, SEE FOUNDATION PLAN FOR SIZES)

**FOUNDATION INSULATION:**

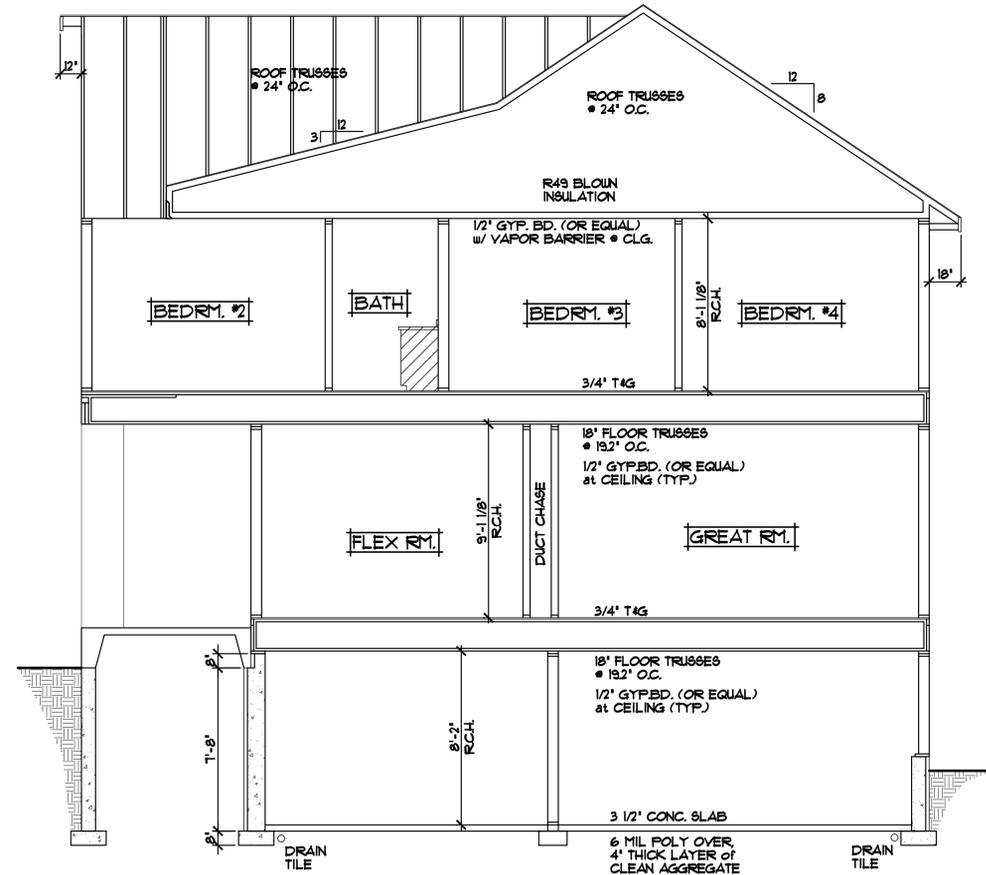
- FOUNDATION EXTERIOR- 2" R-10 RIGID FOAM BOARD INSULATION
- FOUNDATION INTERIOR- 1" R-5 RIGID FOAM BOARD INSULATION

**SLAB CONSTRUCTION:**

- 3 1/2" POURED CONCRETE FLOOR
- 6 MIL POLY VAPOR RETARDER UNDER SLAB
- UNIFORM LAYER OF 3/4" CLEAN AGGREGATE
- 4" THICK (MINIMUM)
- SAND FILL AS REQUIRED



**CROSS SECTION "D"** 1/4"=1'-0"



**CROSS SECTION "C"** 1/4"=1'-0"

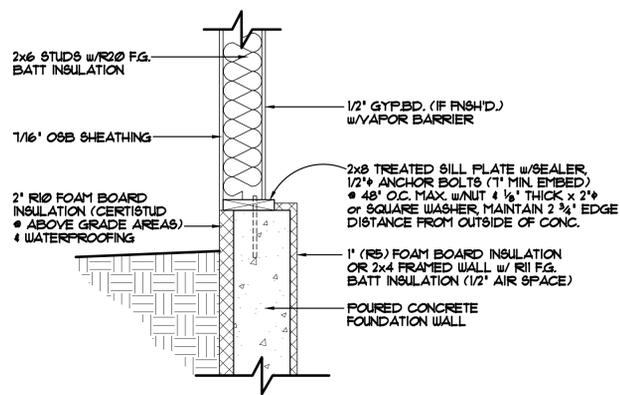
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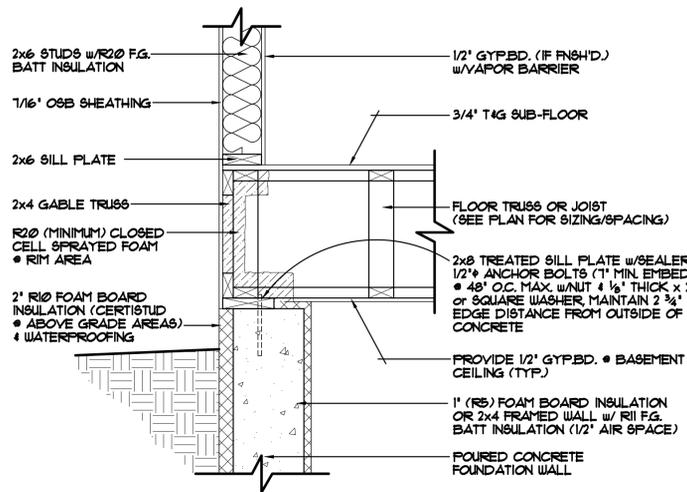


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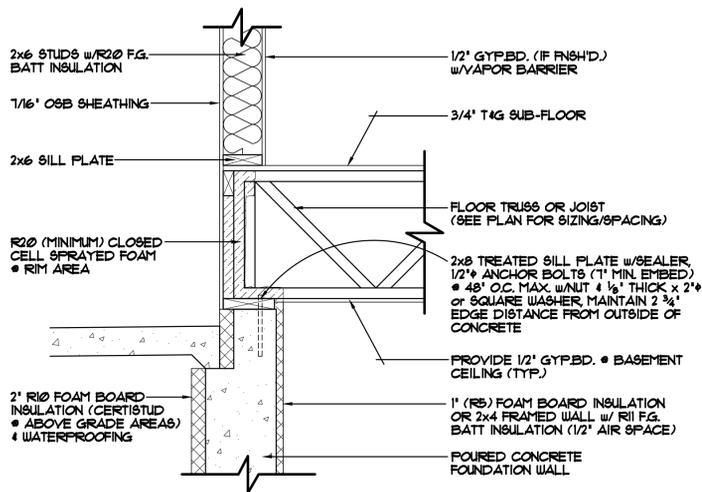
**FOUNDATION/RIM AREA DETAIL "A-1"** 1/4"=1'-0"

STANDARD DAYLIGHT SILL/FOUNDATION AREA  
FOUNDATION HELD IN 2"



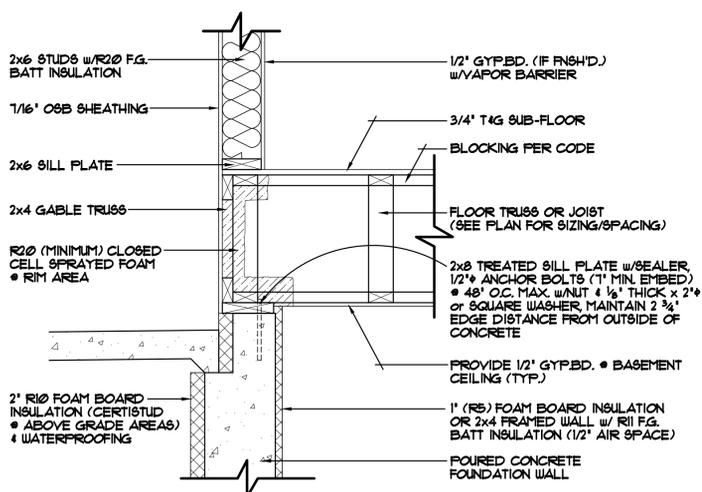
**FOUNDATION/RIM AREA DETAIL "A-2"** 1/4"=1'-0"

STANDARD RIM AREA, TRUSSES/JOISTS PARALLEL TO FOUNDATION WALL  
FOUNDATION HELD IN 2"



**FOUNDATION/RIM AREA DETAIL "A-3"** 1/4"=1'-0"

BRICK LEDGED RIM AREA, TRUSSES/JOISTS PERPENDICULAR TO FOUNDATION WALL  
FOUNDATION HELD IN 2"



**FOUNDATION/RIM AREA DETAIL "A-4"** 1/4"=1'-0"

BRICK LEDGED RIM AREA, TRUSSES/JOISTS PARALLEL TO FOUNDATION WALL  
FOUNDATION HELD IN 2"

**ROOF CONSTRUCTION:**

- PREMANUFACTURED ROOF TRUSSES - ENGINEERED BY SUPPLIER - SLOPES VARY - SEE PLAN
- R49 BLOWN FIBERGLASS INSULATION
- 1/8" ROOF VENT AT SOFFITS, 1/8" VENT AT RIDGE
- AIR CHUTE AT EACH TRUSS SPACE
- 15/32" ROOF SHEATHING
- 15" ROOFING FELT
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**WALL CONSTRUCTION:**

- HOUSE WRAP
- 1/16" OSB SHEATHING
- 2x6 STUDS @ 16" O.C.
- WINDOWS PER SPEC'S
- R-20 F.G. BATT INSULATION
- 4 MIL POLY VAPOR RETARDER
- 1/2" GYPSUM BOARD

**RIM AREA CONSTRUCTION:**

- CLOSED CELL SPRAYED FOAM INSUL. R20 (MINIMUM) @ RIM AREA AND R30 (MINIMUM) @ CANTS

**WALL CONSTRUCTION:**

- SIMILAR TO ABOVE

**SILL CONSTRUCTION:**

- 2x6 SILL PLATE & SEALER (2x6 PLATE @ WALKOUT AREAS)
- 1/2" ANCHOR BOLTS @ 48" O.C.

**FOUNDATION CONSTRUCTION:**

- FOURED CONCRETE WALL FOUNDATION (WALL THICKNESS VARIES, SEE FOUNDATION PLAN FOR SIZES)

**FOUNDATION INSULATION:**

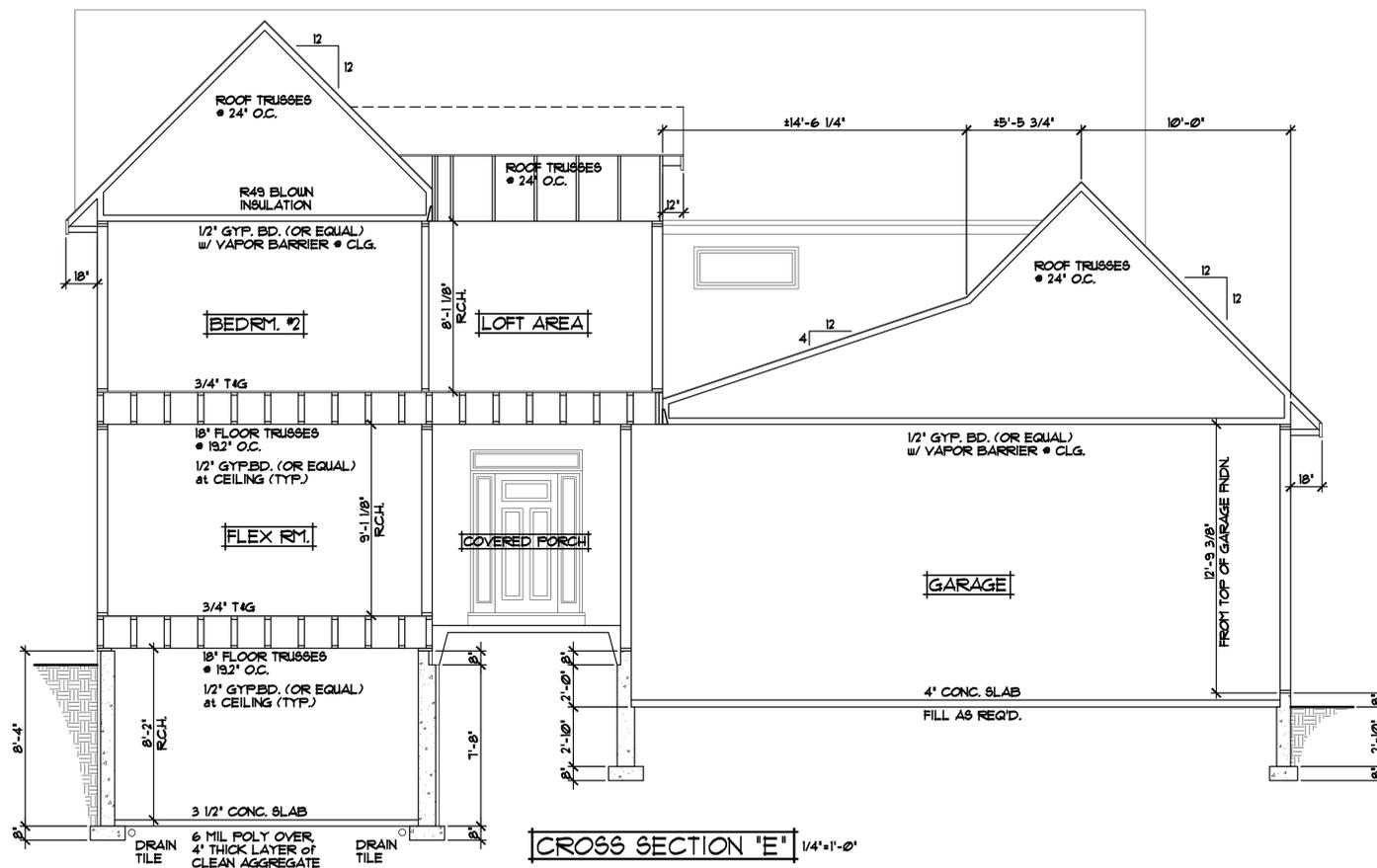
- FOUNDATION EXTERIOR - 2" R-10 RIGID FOAM BOARD INSULATION
- FOUNDATION INTERIOR - 1" R-5 RIGID FOAM BOARD INSULATION

**SLAB CONSTRUCTION:**

- 3 1/2" FOURED CONCRETE FLOOR
- 6 MIL POLY VAPOR RETARDER UNDER SLAB
- UNIFORM LAYER OF 3/4" CLEAN AGGREGATE 4" THICK (MINIMUM)
- SAND FILL AS REQUIRED

**ROOF CONSTRUCTION NOTES**

- PROVIDE 12" HEELS @ UPPER LEVEL 8/12 ROOF TRUSSES w/ 18" OVERHANGS.
- ADJUST HEELS OF 12/12 UPPER LEVEL ROOF TRUSSES w/ 18" HEELS TO MATCH EAVES w/ UPPER LEVEL 8/12 ROOFS
- PROVIDE 18" HEELS @ UPPER LEVEL 3/12 SHED ROOF TRUSSES
- PROVIDE STANDARD ENERGY HEELS @ MAIN LEVEL 4/12 ROOF TRUSSES w/ 18" OVERHANGS. ADJUST HEELS OF MAIN LEVEL 12/12 TRUSSES w/ 18" OVERHANGS TO MATCH EAVES w/ 4/12 ROOF TRUSSES



**CROSS SECTION "E"** 1/4"=1'-0"

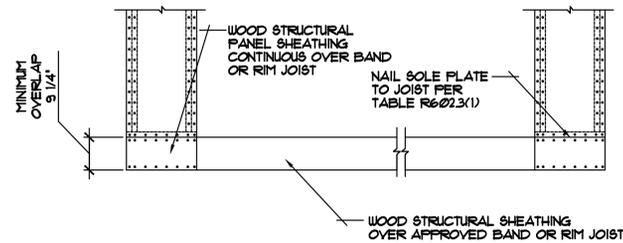
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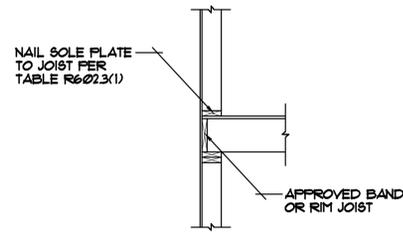
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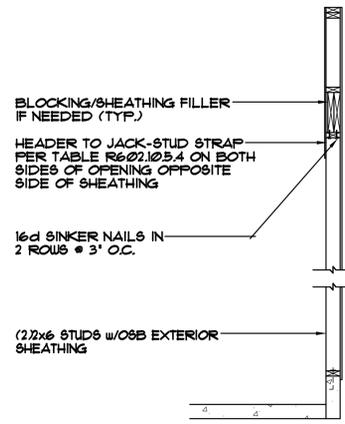


**FRONT ELEVATION**

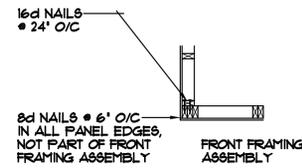
OVER RAISED WOOD FLOOR - OVERLAP OPTION



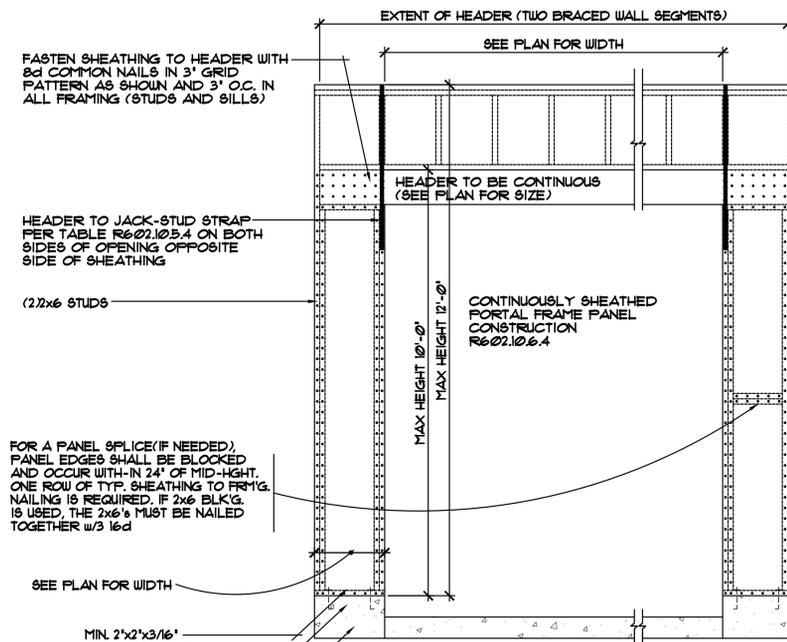
**SECTION**



**SIDE ELEVATION**

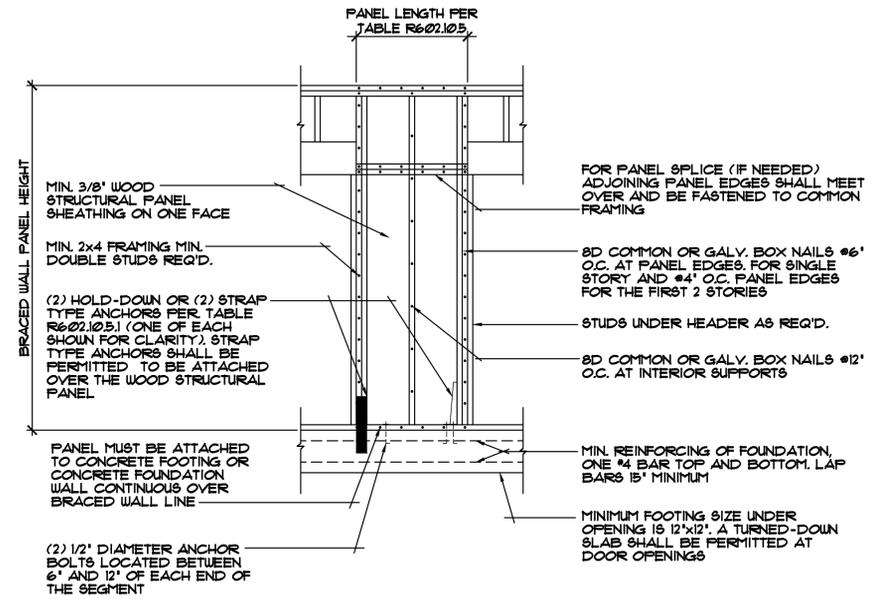


**CORNER FRAMING DETAIL**

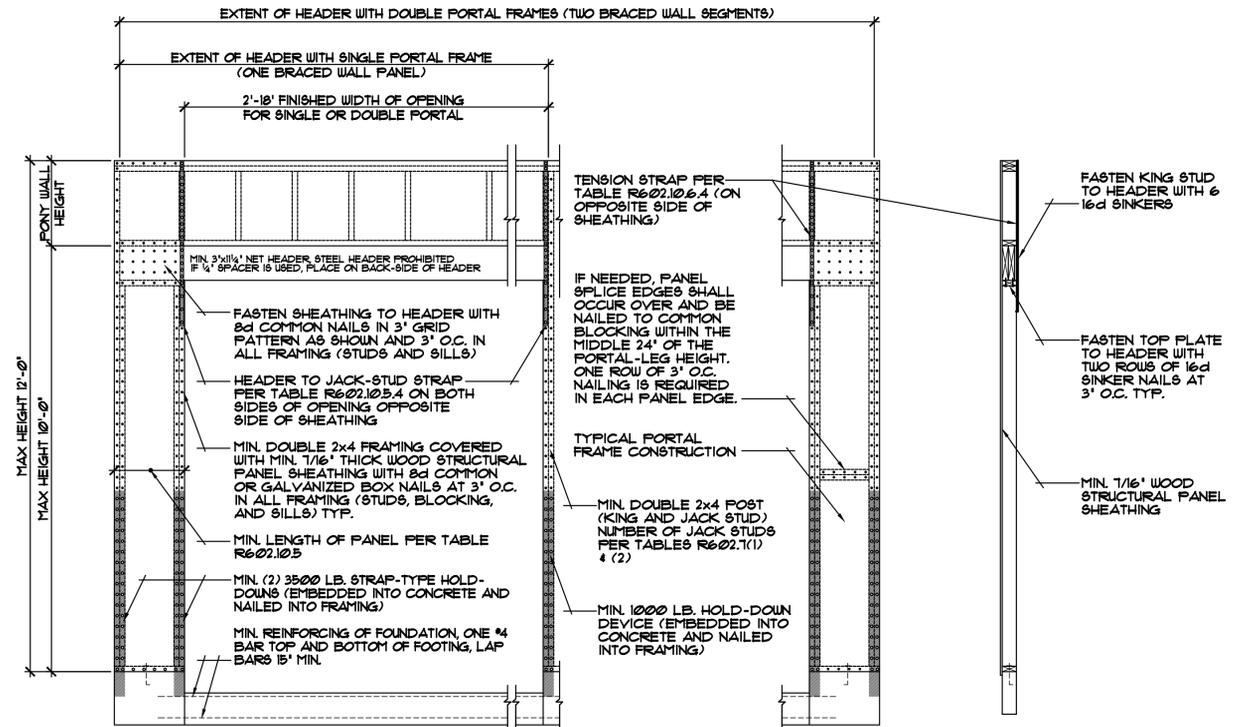


**FRONT ELEVATION**

**CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION** 1/2"=1'-0"



**ALTERNATE BRACED WALL PANEL CONSTRUCTION** 1/2"=1'-0"



**FRONT ELEVATION**

**PORTAL FRAMING WITH HOLD-DOWNS CONSTRUCTION** 1/2"=1'-0"

FIGURE 602.10.6.2 METHOD FRH

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**HARSTAD HOMES**

TABLE R602.3(3) REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURE *a,b,c*

MINIMUM NAIL SIZE	MINIMUM WOOD STRUCTURAL PANEL SPAN RATING	MINIMUM NOMINAL PANEL THICKNESS (INCHES)	MAXIMUM WALL STUD SPACING (INCHES)	PANEL NAIL SPACING		MAXIMUM WIND SPEED (MPH)			
				EDGES (INCHES O.C.)	FIELD (INCHES O.C.)	B	C	D	
6d COMMON (2.0"x0.13")	15	24/0	3/8	16	6	12	140	115	110
8d COMMON (2.5"x0.131")	17.5	24/16	7/16	16	6	12	170	140	135
				24	6	12	140	115	110

FOR S1: 1" = 25.4mm, 1 mile per hour = 0.447 m/s

a. Panel strength axis parallel or perpendicular to supports. Three-ply plywood sheathing with studs spaced more than 16 inches on center shall be applied with panel strength axis perpendicular to supports.

b. Table is based on wind pressures acting toward and away from building surfaces per Section R301.2. Lateral bracing requirements shall be in accordance with Section R602.10.

c. Wood structural panels with span ratings of Wall-16 or Wall-24 shall be permitted as an alternate to panels with a 24/0 span rating. Plywood siding rated 16'o.c. or 24'o.c. shall be permitted as an alternate to panels with a 24/16 span rating. Wall-16 and Plywood siding 16'o.c. shall be used with studs spaced a maximum of 16 inches on center.

NOTE!!! BRACED WALL PANELS TO BE FRAMED FROM FLOOR TRUSSES ATTACHMENT POINTS TO ROOF TRUSSES ATTACHMENT POINTS BEHIND ROOF TRUSSES PER R602.10.2 • ENTIRE UPPER LEVEL (TYP.)

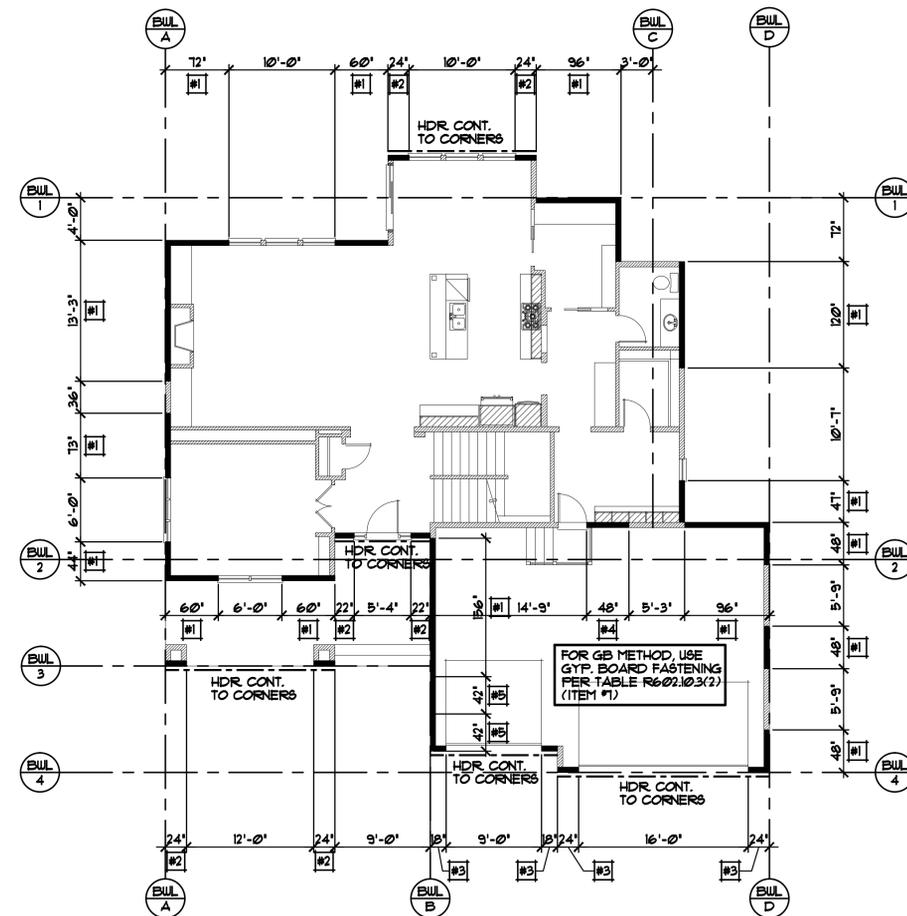
NOTE!!! APPROVED UPLIFT FRAMING CONNECTORS TO BE SPECIFIED BY TRUSS MANUFACTURER/SUPPLIER TO PROVIDE A CONTINUOUS LOAD PATH TO A POINT WHERE UPLIFT FORCES ARE 1000LBS OR LESS (PER R602.3.5 AND PER SECTION R302.1)

WALL BRACING METHOD	DESCRIPTION
#1	C5-WSP (CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANEL) PER TABLE R602.3 (3)
#2	C5-FF (CONTINUOUSLY SHEATHED PORTAL FRAMING) SEE THE C5-FF DETAIL (SHEET #3)
#3	PFH (PORTAL FRAMING WITH HOLD-DOWNS) SEE THE PFH DETAIL (SHEET #3)
#4	GB (GYPSUM BOARD) NAILS OR SCREWS PER TABLE R602.3(1) • EXTERIOR LOCATIONS 4 PER TABLE R102.3.5 • INTERIOR LOCATIONS
#5	ABW (ALTERNATE BRACED WALL) SEE THE ABW DETAIL (SHEET #3)

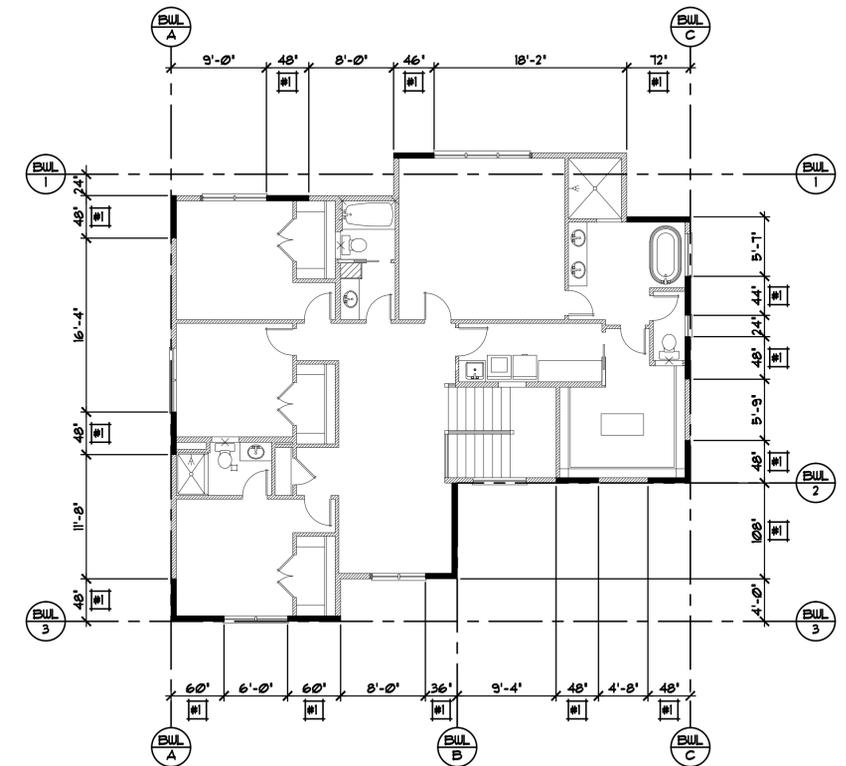
ALL BRACED PANEL LENGTHS GIVEN ARE TO BE TREATED AS MINIMUMS.

WIND EXPOSURE CATEGORY IS TO BE CATEGORY 'C' PER SECTION R301.2.1.4

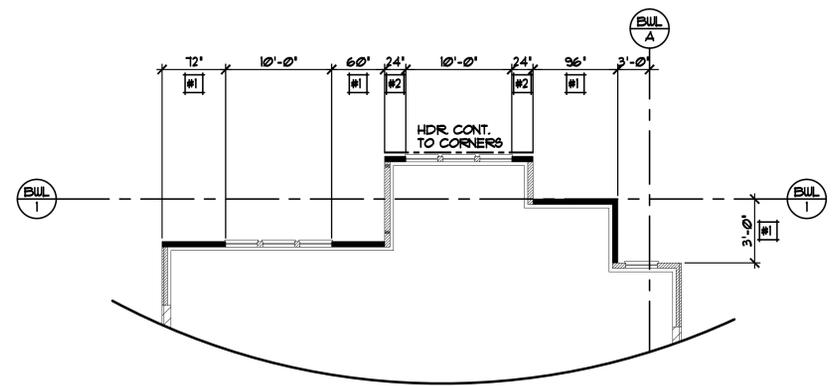
WIND SPEED RESISTANCE TO BE MEASURED LESS THAN OR EQUAL TO 115 MPH.



MAIN LEVEL WALL BRACING PLAN 1/8"=1'-0"



UPPER LEVEL WALL BRACING PLAN 1/8"=1'-0"



BASEMENT WALL BRACING PLAN 1/8"=1'-0"

REVISIONS
XXXXXX 00000 BY:XX
XXXXXX 00000 BY:XX

SPECIAL NOTICE: THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR ERRORS AND/OR OMISSIONS IN THESE DRAWINGS. THE ARCHITECT'S RESPONSIBILITY IS LIMITED TO THE DESIGN OF THE BUILDING AS SHOWN ON THESE DRAWINGS. THE ARCHITECT DOES NOT WARRANT THE ACCURACY OF ANY INFORMATION PROVIDED BY OTHERS. THE ARCHITECT'S LIABILITY IS LIMITED TO THE DESIGN OF THE BUILDING AS SHOWN ON THESE DRAWINGS.

OFFICE: 763.767.8997  
 10000 W. 13TH AVE.  
 ANDOVER, MINNESOTA 55002  
 WWW.CROIXDESIGN.COM



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