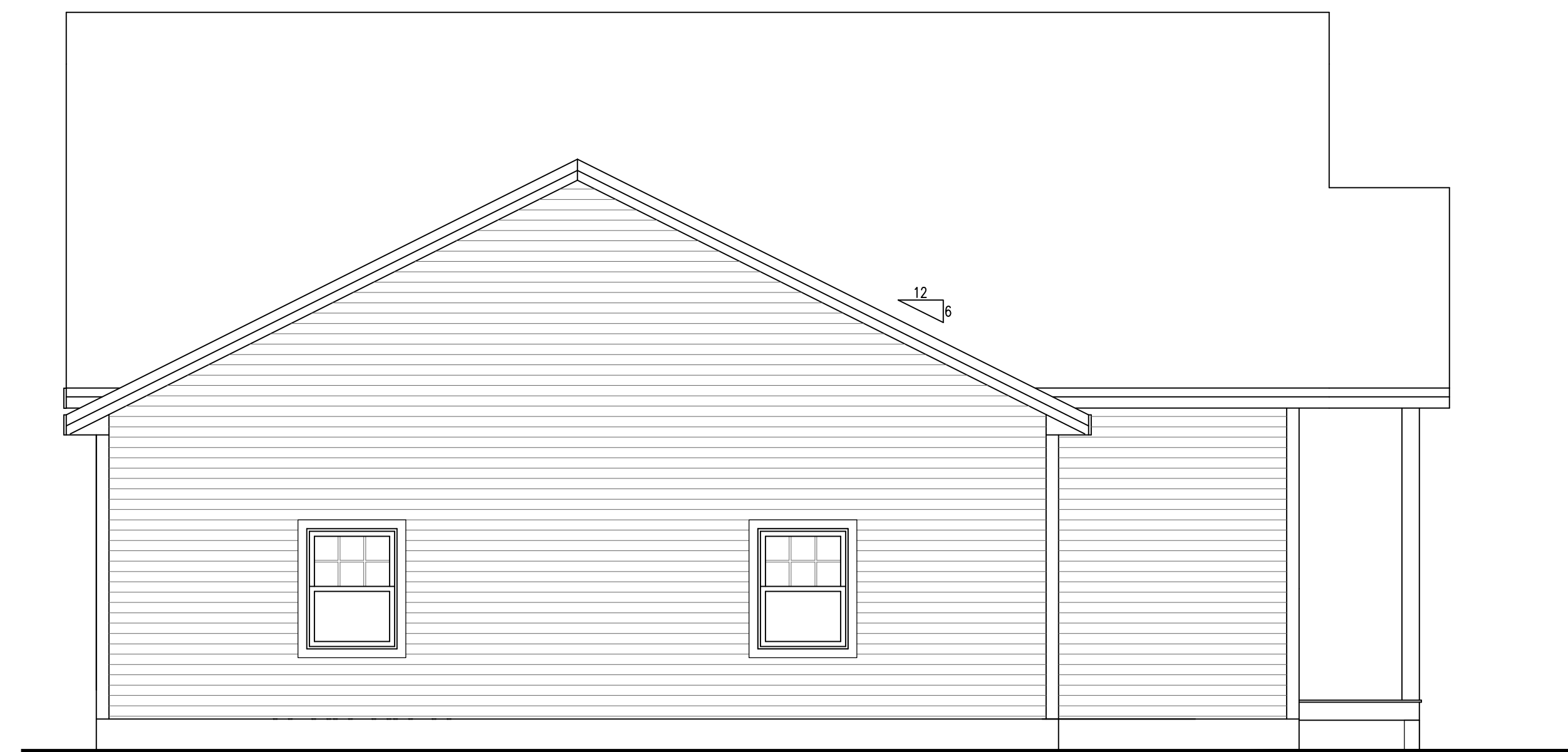


FRONT ELEVATION



LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION

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Date : 11/11/21

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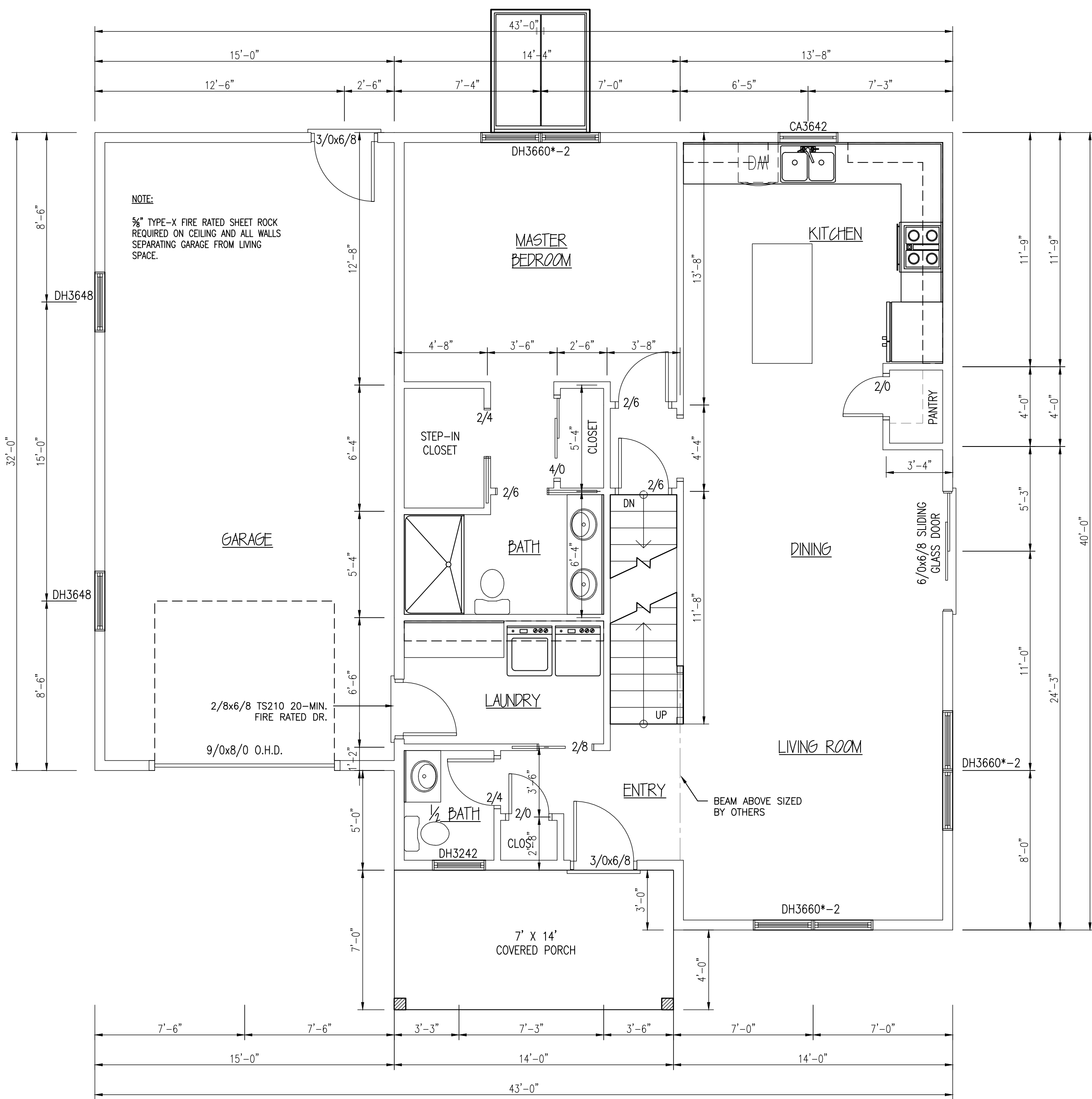
Project: C111121

Sheet Number:

FLOOR PLANS
JUSTIN FLETCHER HOMES
3 BEDROOM SPEC, FREEPORT

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1st FLOOR PLAN

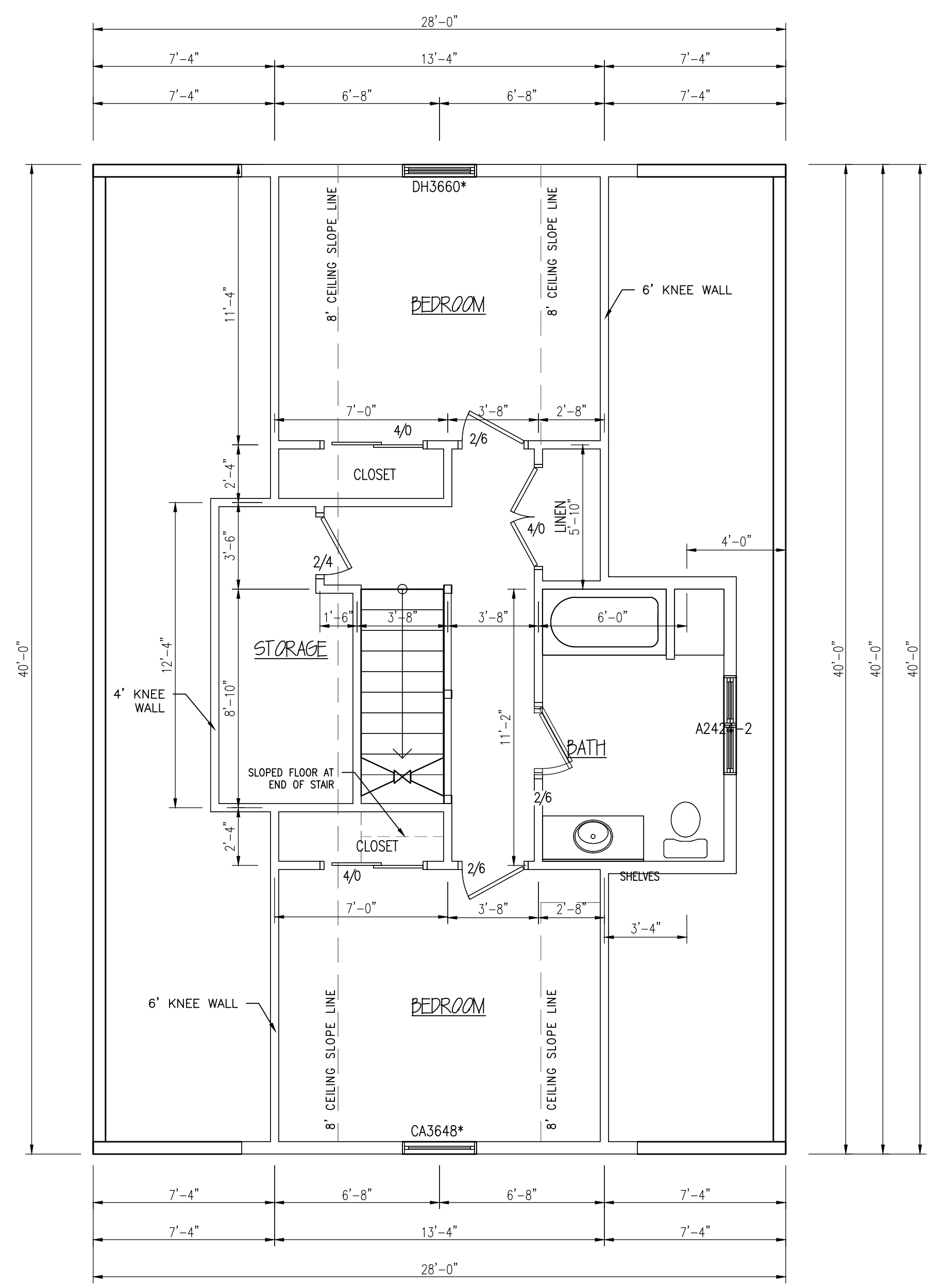


TABLE R502.5(1)
 GIRDER SPANS AND HEADER SPANS FOR EXTERIOR BEARING WALLS
 (Maximum spans for Douglas fir-larch, hem-fir, southern pine and spruce-pine-fir* and required number of jack studs)

GIRDERS AND HEADERS SUPPORTING	SIZE	Building Width ¹ (feet)					
		20		28		36	
		Span	NJ ²	Span	NJ ²	Span	NJ ²
Roof and ceiling	2-2x4	3-2	1	2-9	1	2-6	1
	2-2x6	4-8	1	4-1	1	3-8	2
	2-2x8	5-11	2	5-2	2	4-7	2
	2-2x10	7-3	2	6-3	2	5-7	2
	2-2x12	8-5	2	7-3	2	6-6	2
	3-2x8	7-5	1	6-5	2	5-9	2
	3-2x10	9-1	2	7-10	2	7-0	2
	3-2x12	10-7	2	9-2	2	8-2	2
	4-2x8	8-4	1	7-5	1	6-8	1
	4-2x10	10-6	1	9-1	2	8-2	2
Roof, ceiling and over center-bearing floor	2-2x4	2-9	1	2-5	1	2-2	1
	2-2x6	4-1	1	3-7	2	3-3	2
	2-2x8	5-2	2	4-6	2	4-1	2
	2-2x10	6-4	2	5-6	2	5-0	2
	2-2x12	7-4	2	6-5	2	5-9	3
	3-2x8	6-5	2	5-9	2	5-1	2
	3-2x10	7-11	2	6-11	2	6-3	2
	3-2x12	9-2	2	8-0	2	7-3	2
	4-2x8	7-5	1	6-6	1	5-11	2
	4-2x10	9-7	2	8-0	2	7-2	2
Roof, ceiling and one clear span floor	2-2x4	2-7	1	2-3	1	2-0	1
	2-2x6	3-10	2	3-4	2	3-0	2
	2-2x8	4-10	2	4-2	2	3-9	2
	2-2x10	5-11	2	5-1	2	4-7	3
	2-2x12	6-10	2	5-11	3	5-4	3
	3-2x8	6-1	2	5-3	2	4-8	2
	3-2x10	7-5	2	6-5	2	5-9	2
	3-2x12	8-7	2	7-5	2	6-8	2
	4-2x8	7-0	1	6-1	2	5-5	2
	4-2x10	8-7	2	7-5	2	6-7	2
Roof, ceiling and two center-bearing floor	2-2x4	2-6	1	2-2	1	1-11	1
	2-2x6	3-8	2	3-2	2	2-10	2
	2-2x8	4-7	2	4-0	2	3-8	2
	2-2x10	5-8	2	4-11	2	4-5	3
	2-2x12	6-6	2	5-9	3	5-2	3
	3-2x8	5-9	2	5-1	2	4-7	2
	3-2x10	7-1	2	6-2	2	5-7	2
	3-2x12	8-2	2	7-2	2	6-5	3
	4-2x8	6-8	1	5-10	2	5-3	2
	4-2x10	8-2	2	7-2	2	6-5	2
Roof, ceiling and two clear span floor	2-2x4	4-8	2	4-3	2	3-7	2
	2-2x6	5-5	2	4-8	2	4-2	3
	2-2x8	6-2	2	5-1	2	4-5	3
	2-2x10	7-1	2	6-2	2	5-3	3
	2-2x12	8-2	2	7-2	2	6-5	3
	3-2x8	6-9	2	5-10	2	4-8	2
	3-2x10	8-1	2	6-11	2	5-7	2
	3-2x12	9-5	2	8-3	2	7-5	2
	4-2x8	7-8	1	6-8	1	5-9	2
	4-2x10	9-2	2	8-2	2	7-3	2

For S1: 1 inch=25.4mm, 1 pound per square foot=0.0479kN/m²

a. Spans are given in feet and inches.
 b. Tabulated values assume #2 grade lumber.
 c. Building width is measured perpendicular to the ridge. For widths between those shown, spans are permitted to be interpolated.
 d. NJ-Number of jack studs required to support each end. Where the number of required jack studs equals one, the header is permitted to be supported by an approved framing anchor attached to the full-height wall stud and to the header.
 e. Use 30psf ground snow load for cases in which ground snow load is less than 30psf and the roof live load is equal to or less than 20psf.

TABLE R502.5(2)
 GIRDER SPANS AND HEADER SPANS FOR INTERIOR BEARING WALLS
 (Maximum spans for Douglas fir-larch, hem-fir, southern pine and spruce-pine-fir* and required number of jack studs)

HEADERS AND GIRDERS SUPPORTING	SIZE	Building Width ¹ (feet)					
		20		28		36	
		Span	NJ ²	Span	NJ ²	Span	NJ ²
One floor only	2-2x4	3-1	1	2-8	1	2-5	1
	2-2x6	4-6	1	3-11	1	3-8	1
	2-2x8	5-9	1	5-0	2	4-5	2
	2-2x10	7-0	2	6-1	2	5-5	2
	2-2x12	8-1	2	7-0	2	6-3	2
	3-2x8	7-2	1	6-3	1	5-7	2
	3-2x10	8-9	1	7-7	2	6-9	2
	3-2x12	10-2	2	8-10	2	7-10	2
	4-2x8	9-10	1	8-1	2	6-8	2
	4-2x10	10-11	1	9-9	1	7-10	2
TWO floor only	2-2x4	2-2	1	1-10	1	1-7	1
	2-2x6	3-2	2	2-9	2	2-5	2
	2-2x8	4-1	2	3-6	2	3-2	2
	2-2x10	4-11	2	4-3	2	3-10	3
	2-2x12	5-9	2	5-0	3	4-5	3
	3-2x8	5-1	2	4-5	2	3-11	2
	3-2x10	6-2	2	5-4	2	4-10	2
	3-2x12	7-2	2	6-3	2	5-7	3
	4-2x8	6-2	2	5-7	2	4-8	2
	4-2x10	7-2	2	6-2	2	5-6	2

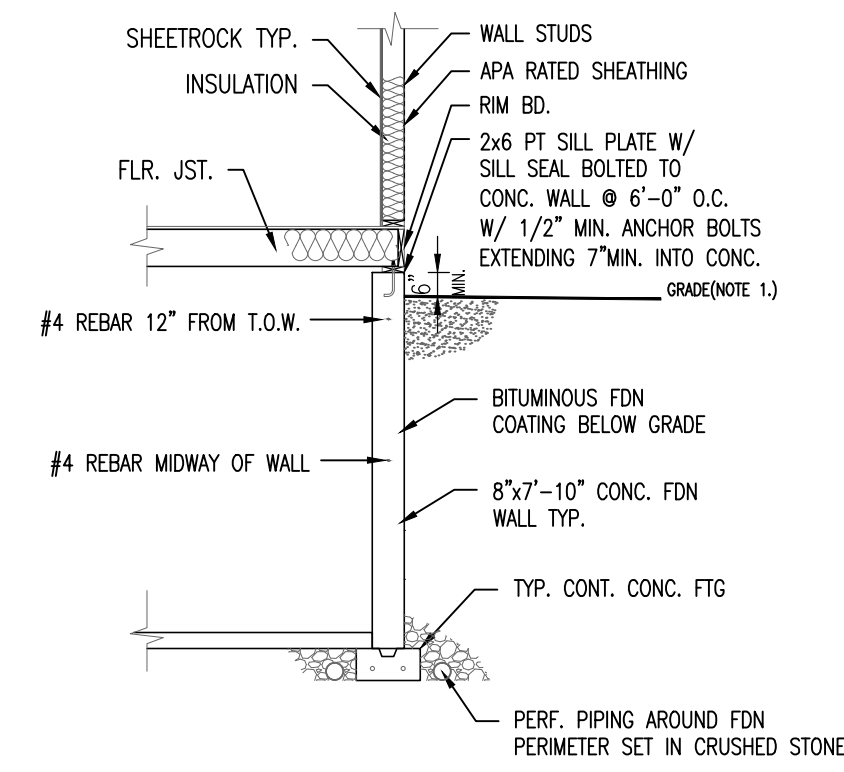
NOTES:
SMOKE ALARMS SHALL BE INTERCONNECTED & INSTALLED IN THE FOLLOWING LOCATIONS:

1. EACH SLEEPING AREA
2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS
3. ON EACH ADDITIONAL STORY OF THE DWELLING INCLUDING BASEMENTS
4. FIRE SEPARATION PER TOWN AND LOCAL CODE WHEN REQUIRED

* DENOTES EGRESS WINDOW

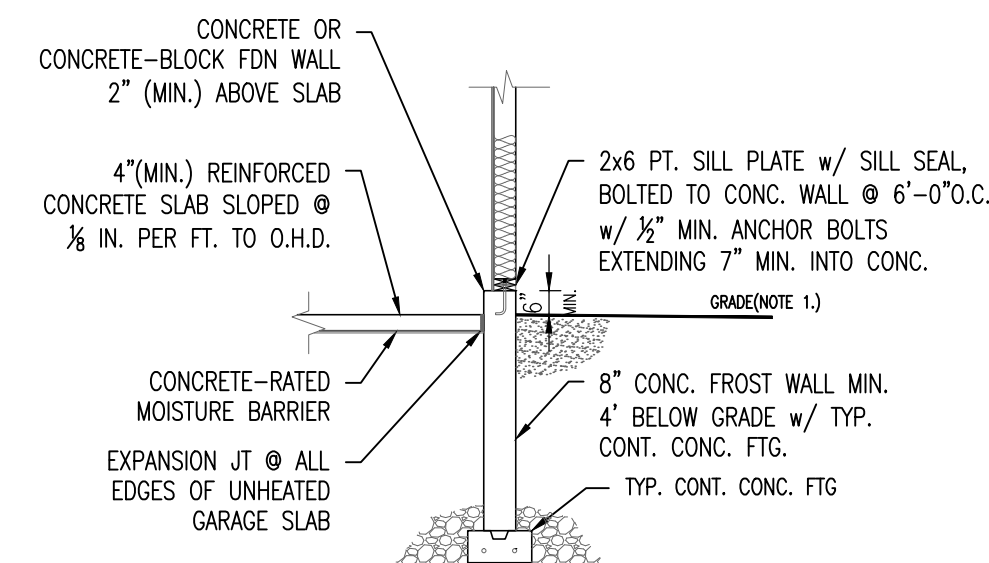
FOUNDATION NOTES:

1. 4" DIA. CONTINUOUS PERF. PERIMETER DRAIN WITH HOLES ORIENTED DOWN. SLOPED TO DAYLIGHT OR TO STORM SEWER OR DRYWELL.
2. ALL LALLY COLUMNS THIS SHEET ASSUMED TO BE TYP.
3. ALL INTERIOR FOOTINGS TO BE DESIGNED PER SOIL CONDITIONS. CONTRACTOR TO VERIFY.
4. DECK SUPPORTS ASSUMED TO BE 10" DIA. SONOTUBES. SOIL CONDITIONS TO DETERMINE FOOTING DESIGN. CONTRACTOR TO VERIFY.
5. FOR PLUMBING LOCATION/LAYOUT, SEE GROUND FLOOR PLAN.
6. CONTRACTOR TO VERIFY CONDITIONS IN FIELD AND STEP FND./FTOS AS REQUIRED PER GRADE AND SOIL CONDITIONS
7. CONTRACTOR TO VERIFY GRADE IN FIELD BEFORE CONSTRUCTION OF TYPICAL FOUNDATION WALLS OR DAYLIGHT BASEMENT. DESIGN SHOWN MAY DIFFER FROM ACTUAL FINISHED CONSTRUCTION. FINAL MATERIALS, WINDOW/DOOR LOCATIONS AND SIZES, TO BE DETERMINED PER OWNER/CONT. AND LOCAL CODES.



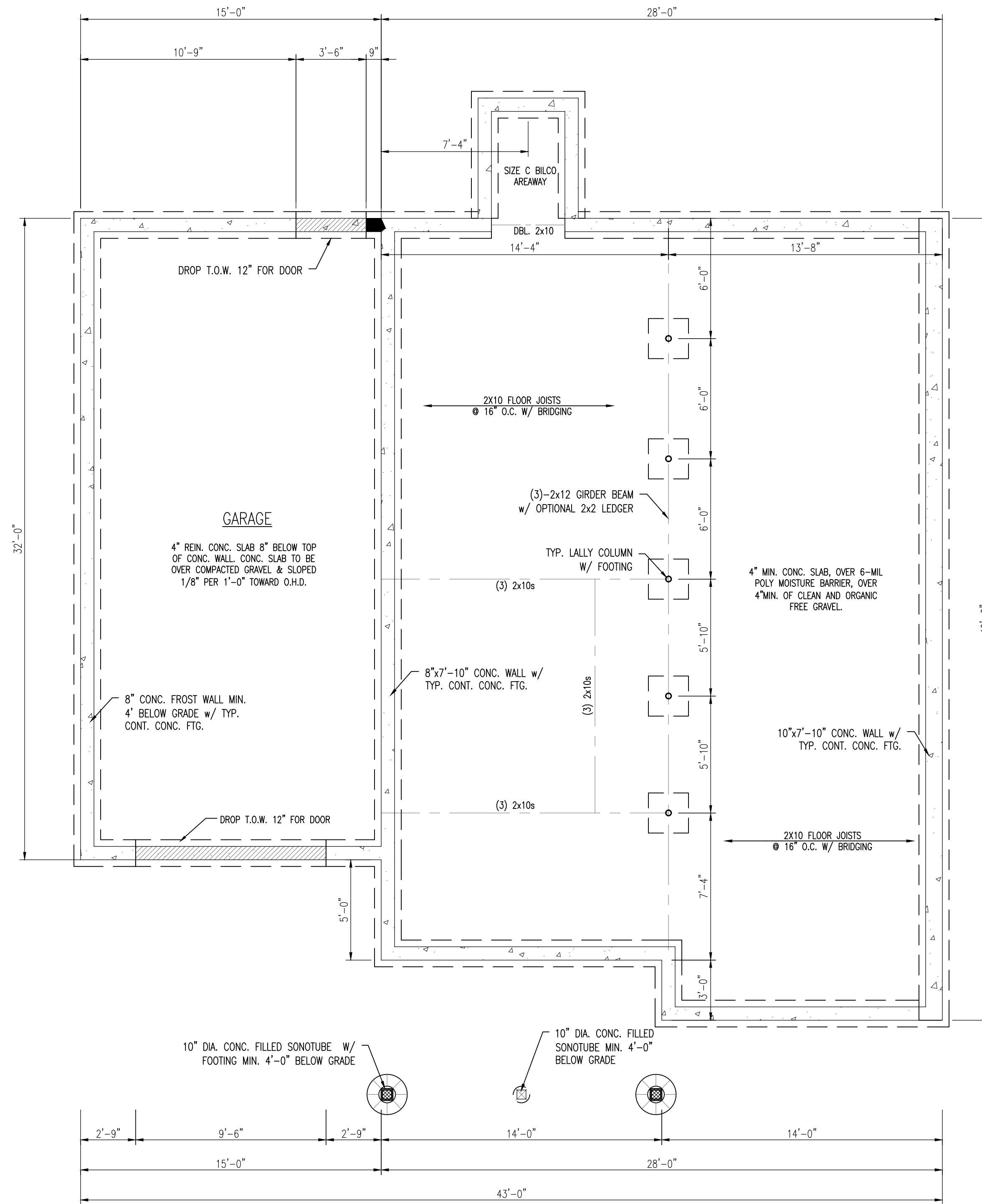
NOTE:
1. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF 1/2" VERTICAL TO 12" HORIZONTAL FOR A MINIMUM DISTANCE OF 8'-0". THIS CONDITION SHALL EXIST AFTER SETTLEMENT OF BACKFILL HAS OCCURRED.

TYPICAL FOUNDATION WALL DETAIL
1/4" = 1'-0"



NOTE:
1. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF 1/2" VERTICAL TO 12" HORIZONTAL FOR A MINIMUM DISTANCE OF 8'-0". THIS CONDITION SHALL EXIST AFTER SETTLEMENT OF BACKFILL HAS OCCURRED.

TYPICAL GARAGE SLAB / FDN WALL DETAIL
1/4" = 1'-0"



FOUNDATION PLAN

FOUNDATION PLAN
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3 BEDROOM SPEC, FREEPORT

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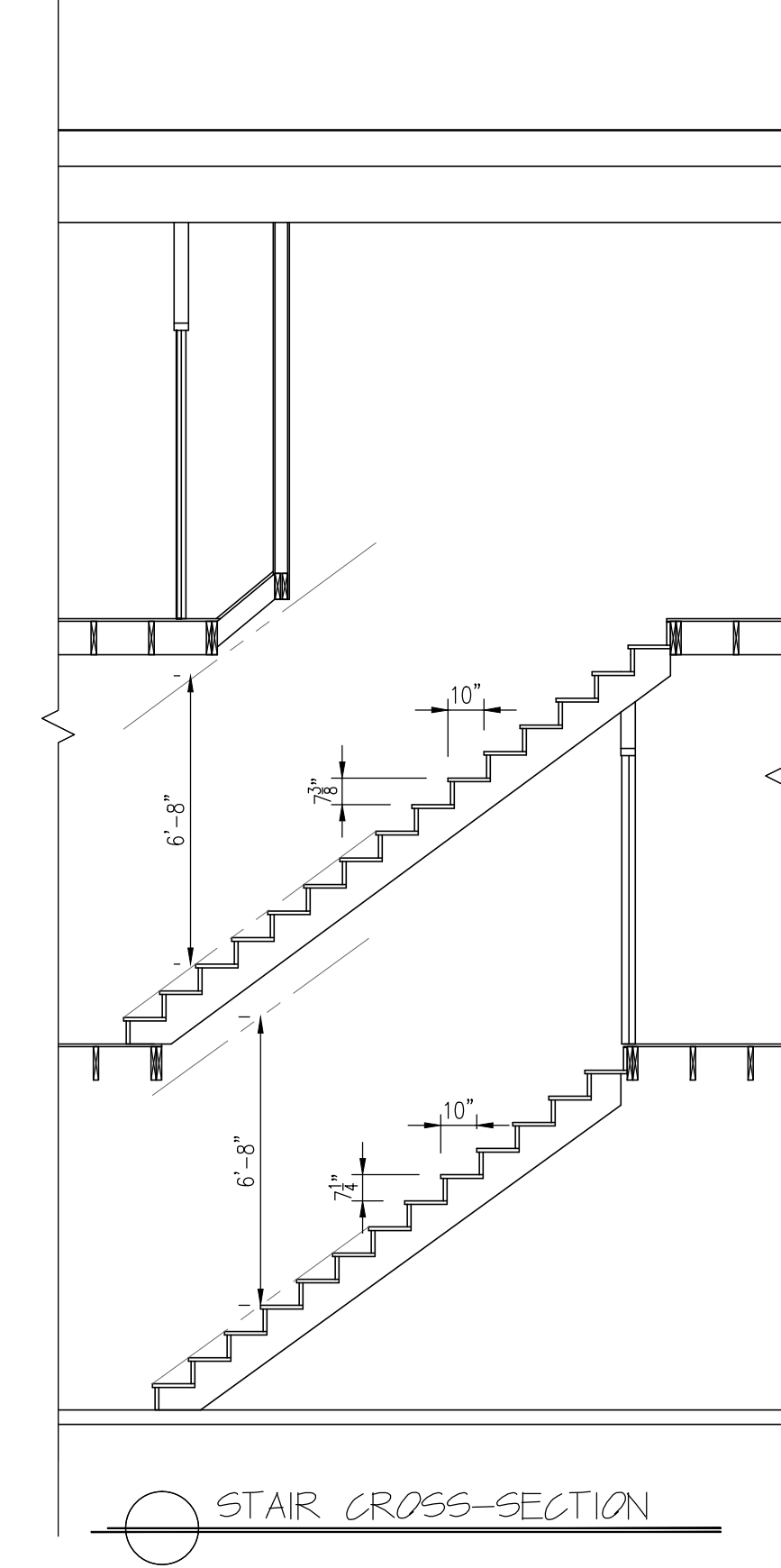
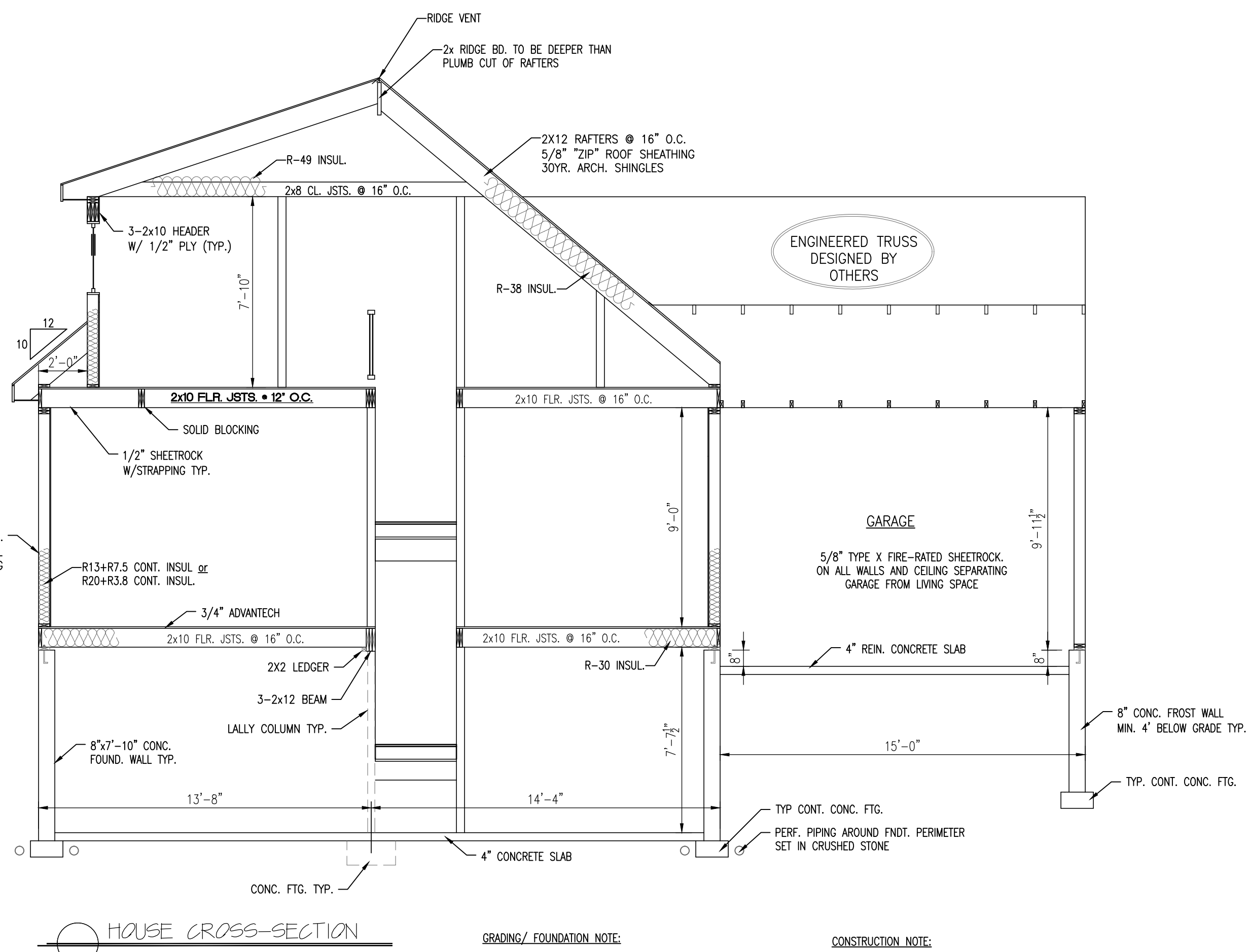
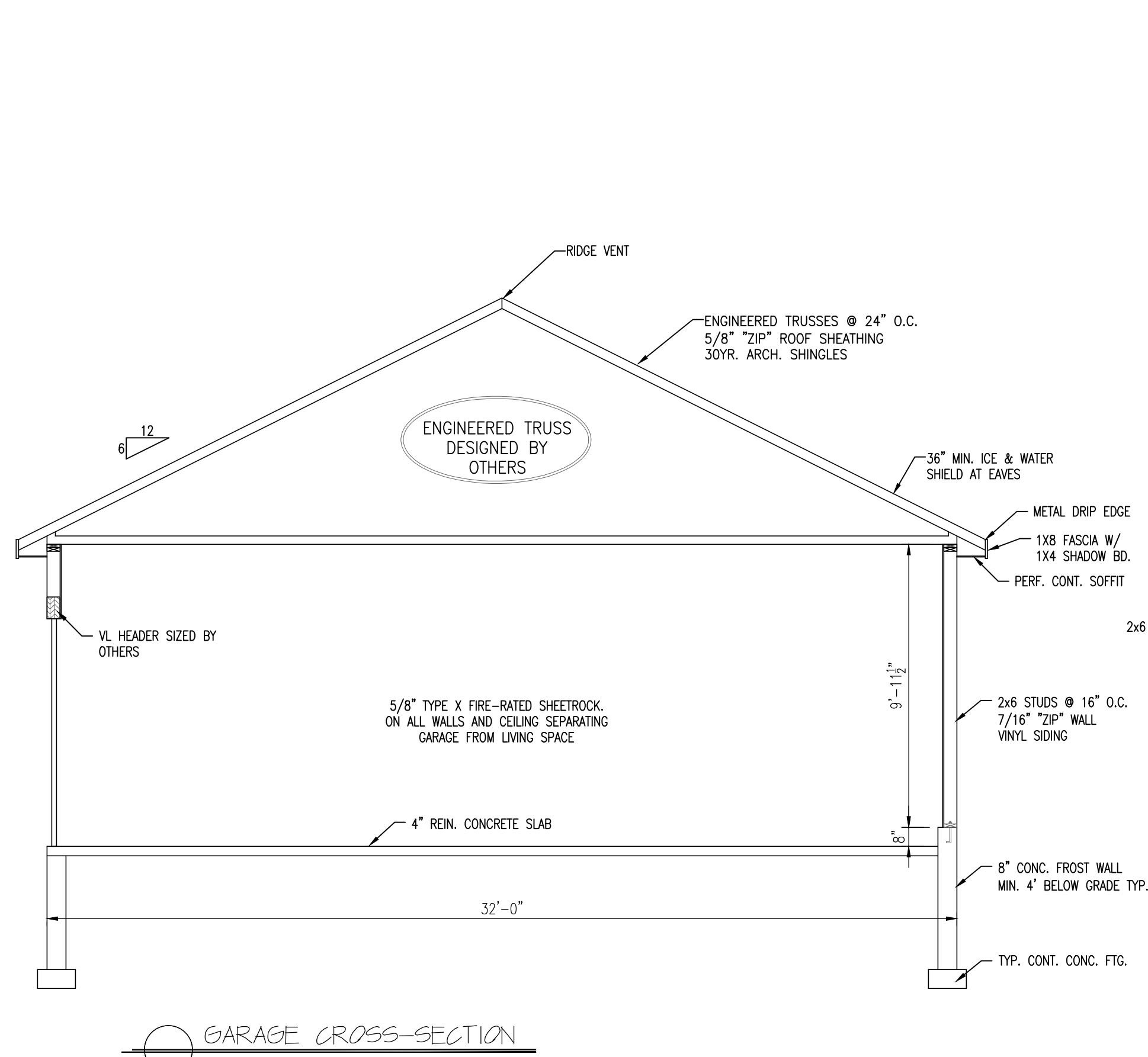
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GRAADING/ FOUNDATION NOTE:
 CONTRACTOR TO VERIFY GRADE IN FIELD BEFORE CONSTRUCTION OF TYPICAL FOUNDATION WALLS OR DAYLIGHT BASEMENT. DESIGN SHOWN MAY DIFFER FROM ACTUAL FINISHED CONSTRUCTION. FINAL MATERIALS, WINDOW/DOOR LOCATIONS AND SIZES, TO BE DETERMINED PER OWNER/CONT. AND LOCAL CODES.

CONSTRUCTION NOTE:
 CONTRACTOR TO VERIFY GRADE AND ALL DIMENSIONS IN FIELD BEFORE CONSTRUCTION. DESIGN SHOWN MAY DIFFER FROM ACTUAL FINISHED CONSTRUCTION. FINAL MATERIALS, WINDOW/DOOR LOCATIONS AND SIZES, TO BE DETERMINED PER OWNER/CONT. AND LOCAL CODES.

TABLE R402.1.3 INSULATION MINIMUM R-VALUES AND FENESTRATION REQUIREMENTS BY COMPONENT*

CLIMATE ZONE	FENESTRATION U-FACTOR ^{a,1}	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b,4}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE ⁵	MASS WALL R-VALUE ⁶	FLOOR R-VALUE	BASEMENT ^{a,6} WALL R-VALUE	SLAB ^b R-VALUE & DEPTH	CRAWL SPACE ^{a,6} WALL R-VALUE
0	NR	0.75	0.25	30	13 or 0 + 10	3/4	13	0	0	0
1	NR	0.75	0.25	30	13 or 0 + 10	3/4	13	0	0	0
2	0.40	0.65	0.25	49	13 or 0 + 10	4/6	13	0	0	0
3	0.30	0.55	0.25	49	20 or 13 + 5ci or 0 + 15	8/13	19	5ci or 13 ^f	10ci, 2 ft	5ci or 13 ^f
4 except Marine	0.30	0.55	0.40	60	20+5 or 13 + 10ci or 0 + 15	8/13	19	10ci or 13	10ci, 4 ft	10ci or 13
5 and Marine 4	0.30 ^g	0.55	0.40	60	20+5 or 13 + 10ci or 0 + 15	13/17	30	15ci or 19 or 13 + 5ci	10ci, 4 ft	15ci or 19 or 13 + 5ci
6	0.30 ^g	0.55	NR	60	20 + 5ci or 13 + 10ci or 0 + 20	15/20	30	15ci or 19 or 13 + 5ci	10ci, 4 ft	15ci or 19 or 13 + 5ci
7 and 8	0.30 ^g	0.55	NR	60	20 + 5ci or 13 + 10ci or 0 + 20	19/21	38	15ci or 19 or 13 + 5ci	10ci, 4 ft	15ci or 19 or 13 + 5ci

For SI: 1 foot = 304.8 mm.
 NR = Not Required.

ci = continuous insulation.

a. R-values are minimums. U-factors and SHGC are maximums. Where insulation is installed in a cavity that is less than the label or design thickness of the insulation, the installed R-value of the insulation shall be not less than the R-value specified in the table.
 b. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.
 Exception: In Climate Zones 0 through 3, skylights shall be permitted to be excluded from glazed fenestration SHGC requirements provided that the SHGC for such skylights does not exceed 0.30.
 c. "5ci or 13" means R-5 continuous insulation (ci) on the interior or exterior surface of the wall or R-13 cavity insulation on the interior side of the wall. "10ci or 13" means R-10 continuous insulation (ci) on the interior or exterior surface of the wall or R-13 cavity insulation on the interior side of the wall. "15ci or 19 or 13 + 5ci" means R-15 continuous insulation (ci) on the interior or exterior surface of the wall; or R-19 cavity insulation on the interior side of the wall; or R-13 cavity insulation on the interior side of the wall in addition to R-5 continuous insulation on the interior or exterior surface of the wall.
 d. R-5 insulation shall be provided under the full slab area of a heated slab in addition to the required slab-edge insulation R-value for slabs, as indicated in the table. The slab edge insulation for heated slabs shall not be required to extend below the slab.
 e. There are no SHGC requirements in the Marine Zone.
 f. Basement wall insulation is not required in warm-humid locations as defined by Figure R301.1 and Table R301.1.
 g. The first value is cavity insulation; the second value is continuous insulation. Therefore, as an example, "13 + 5" means R-13 cavity insulation plus R-5 continuous insulation.
 h. Mass walls shall be in accordance with Section R402.2.5. The second R-value applies where more than half of the insulation is on the interior of the mass wall.
 i. A maximum U-factor of 0.32 shall apply in Climate Zones 3 through 8 to vertical fenestration products installed in buildings located either:
 1. Above 4,000 feet in elevation, or
 2. In windborne debris regions where protection of openings is required by Section R301.2.1.2 of the International Residential Code.

TABLE R402.1.2 MAXIMUM ASSEMBLY U-FACTORS^a AND FENESTRATION REQUIREMENTS

CLIMATE ZONE	FENESTRATION U-FACTOR ^f	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC ^{d,e}	CEILING U-FACTOR	WOOD FRAME WALL U-FACTOR	MASS WALL U-FACTOR ^b	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
0	0.50	0.75	0.25	0.035	0.084	0.197	0.064	0.360	0.477
1	0.50	0.75	0.25	0.035	0.084	0.197	0.064	0.360	0.477
2	0.40	0.65	0.25	0.026	0.084	0.165	0.064	0.360	0.477
3	0.30	0.55	0.25	0.026	0.060	0.098	0.047	0.091 ^c	0.136
4 except Marine	0.30	0.55	0.40	0.024	0.045	0.098	0.047	0.059	0.065
5 and Marine 4	0.30	0.55	NR	0.024	0.045	0.082	0.033	0.050	0.055
6	0.30	0.55	NR	0.024	0.045	0.060	0.033	0.050	0.055
7 and 8	0.30	0.55	NR	0.024	0.045	0.057	0.028	0.050	0.055

For SI: 1 foot = 304.8 mm.

a. Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source.
 b. Mass walls shall be in accordance with Section R402.2.5. Where more than half the insulation is on the interior, the mass wall U-factors shall not exceed 0.17 in Climate Zones 0 and 1, 0.14 in Climate Zone 2, 0.12 in Climate Zone 3, 0.087 in Climate Zone 4 except Marine, 0.065 in Climate Zone 5 and Marine 4, and 0.057 in Climate Zones 6 through 8.
 c. In warm-humid locations as defined by Figure R301.1 and Table R301.1, the basement wall U-factor shall not exceed 0.360.
 d. The SHGC column applies to all glazed fenestration.
 Exception: In Climate Zones 0 through 3, skylights shall be permitted to be excluded from glazed fenestration SHGC requirements provided that the SHGC for such skylights does not exceed 0.30.
 e. There are no SHGC requirements in the Marine Zone.
 f. A maximum U-factor of 0.32 shall apply in Marine Climate Zone 4 and Climate Zones 5 through 8 to vertical fenestration products installed in buildings located either:
 1. Above 4,000 feet in elevation above sea level, or
 2. In windborne debris regions where protection of openings is required by Section R301.2.1.2 of the International Residential Code.

CROSS-SECTIONS
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3 BEDROOM SPEC, FREEPORT

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