



BEATTY LINE N • FERGUS • ON  
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**NEW DETACHED GARAGE**  
CHRIS PEGELO  
71 FERNDAL AVE.  
GUELPH

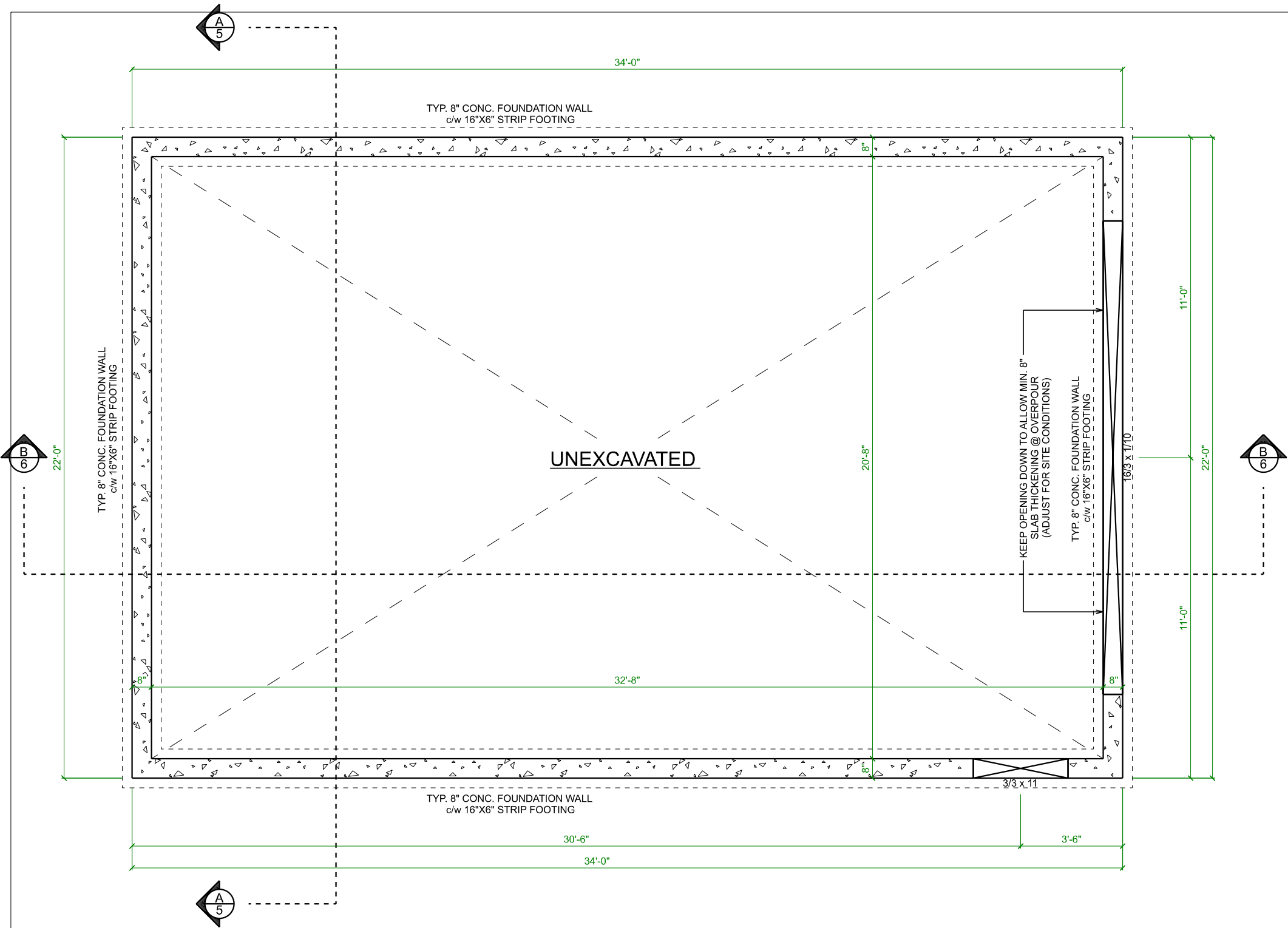
**3D CONCEPT**

PROJECT NO: 25-004  
STARTING DATE: Jan 16, 2025  
LAST REVISION DATE: Feb 17, 2025  
DRAWN BY:

SCALE: N.T.S.

**1**

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# FOUNDATION PLAN

SCALE: 1/4" = 1'-0"



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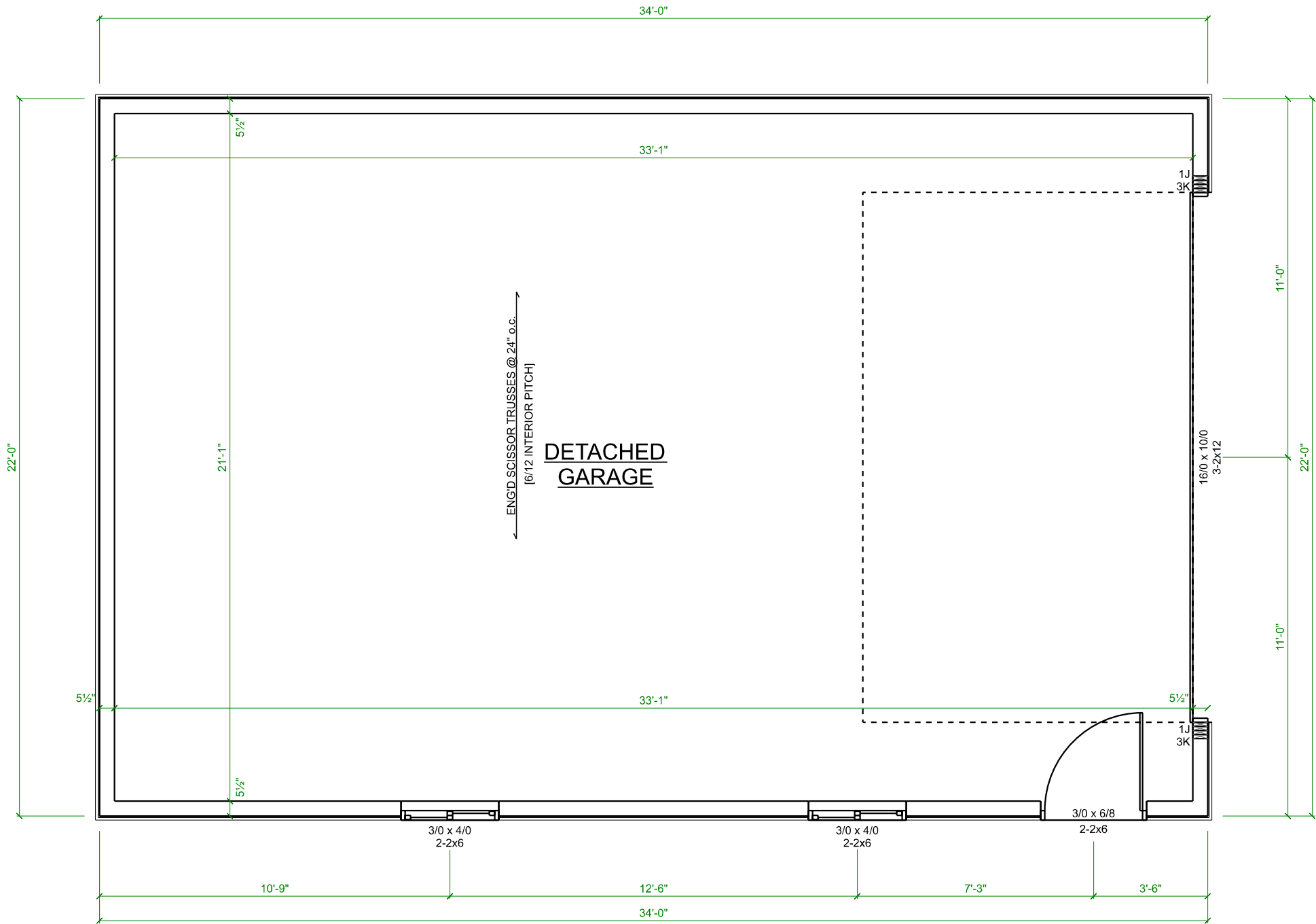
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# GROUND FLOOR PLAN

SCALE: 1/4" = 1'-0"



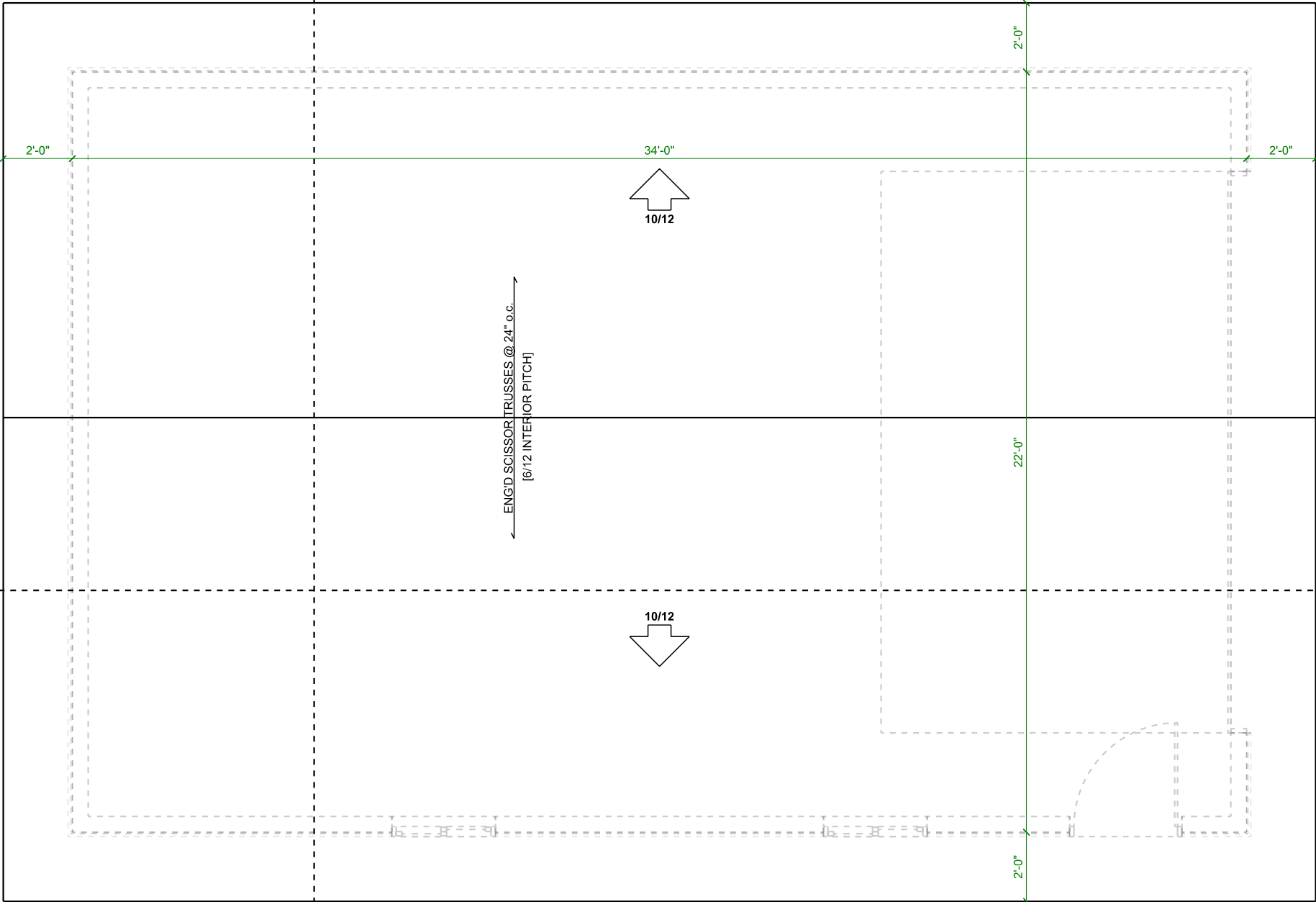
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# ROOF PLAN

SCALE: 1/4" = 1'-0"



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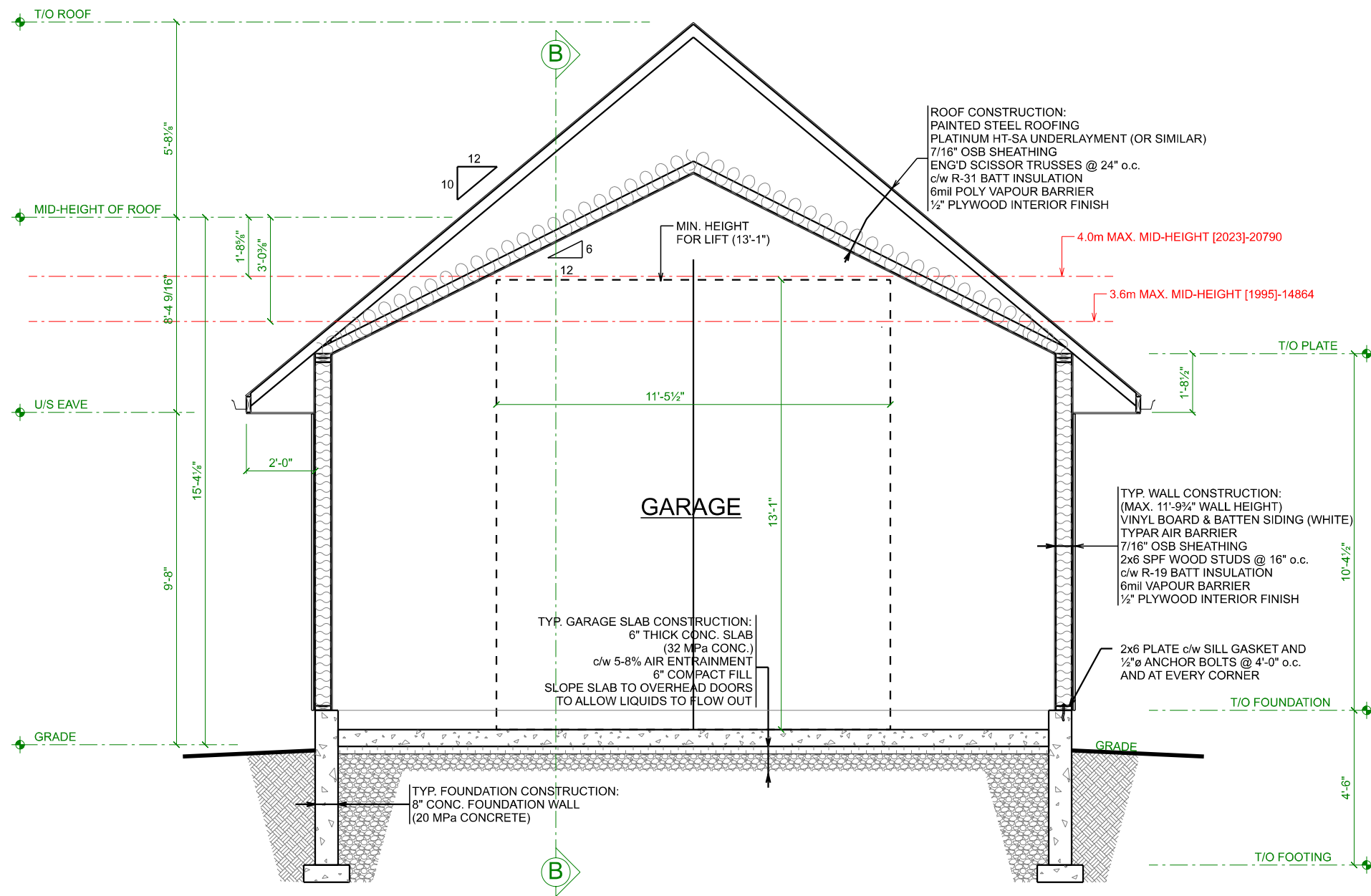
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## ROOF PLAN

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SCALE: 1/4" = 1'-0"



A  
2

## CROSS SECTION 'A'

SCALE: 1/4" = 1'-0"



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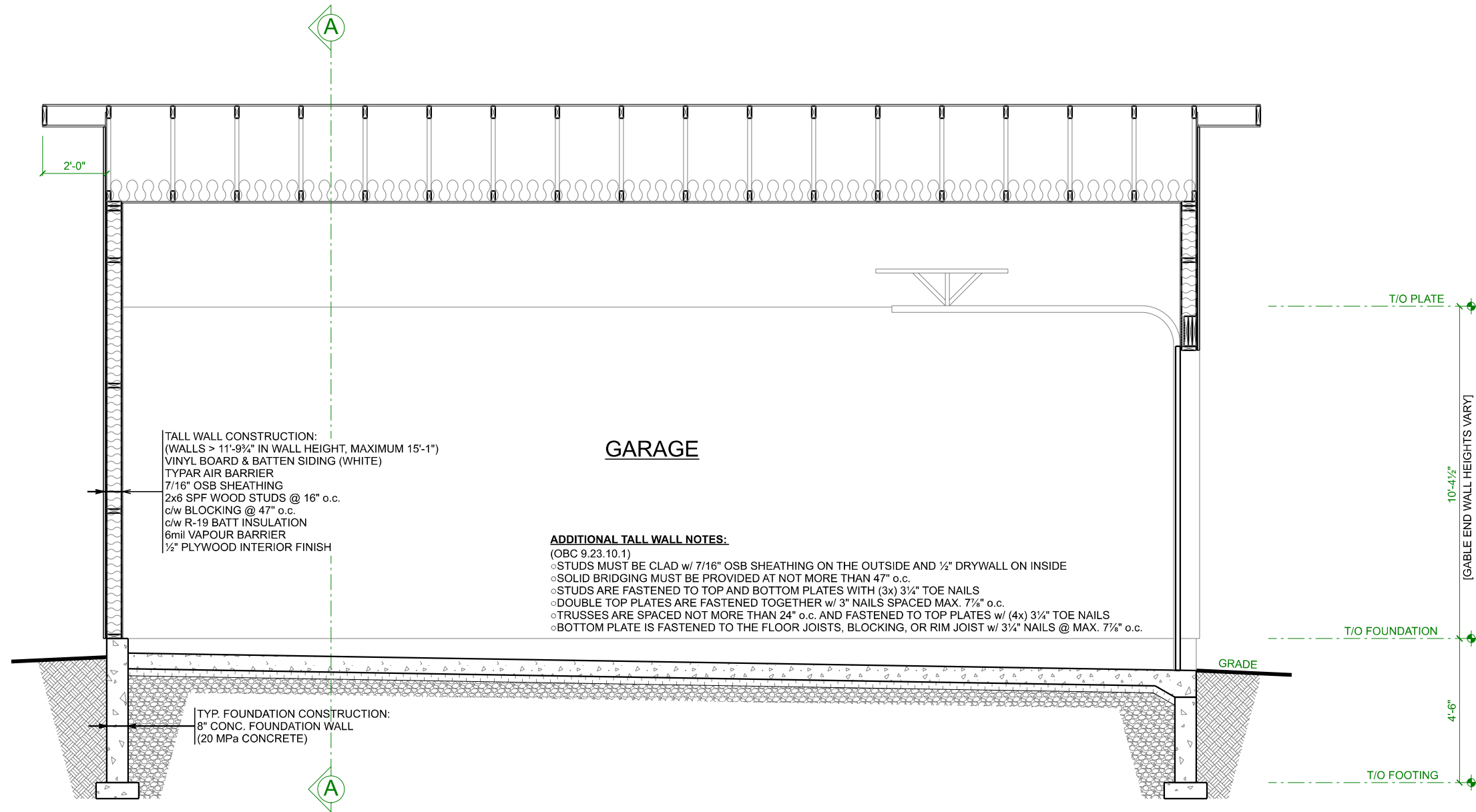
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### CROSS SECTION 'A'

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SCALE: 1/4" = 1'-0"

5



B  
2

## CROSS SECTION B

SCALE: 1/4" = 1'-0"



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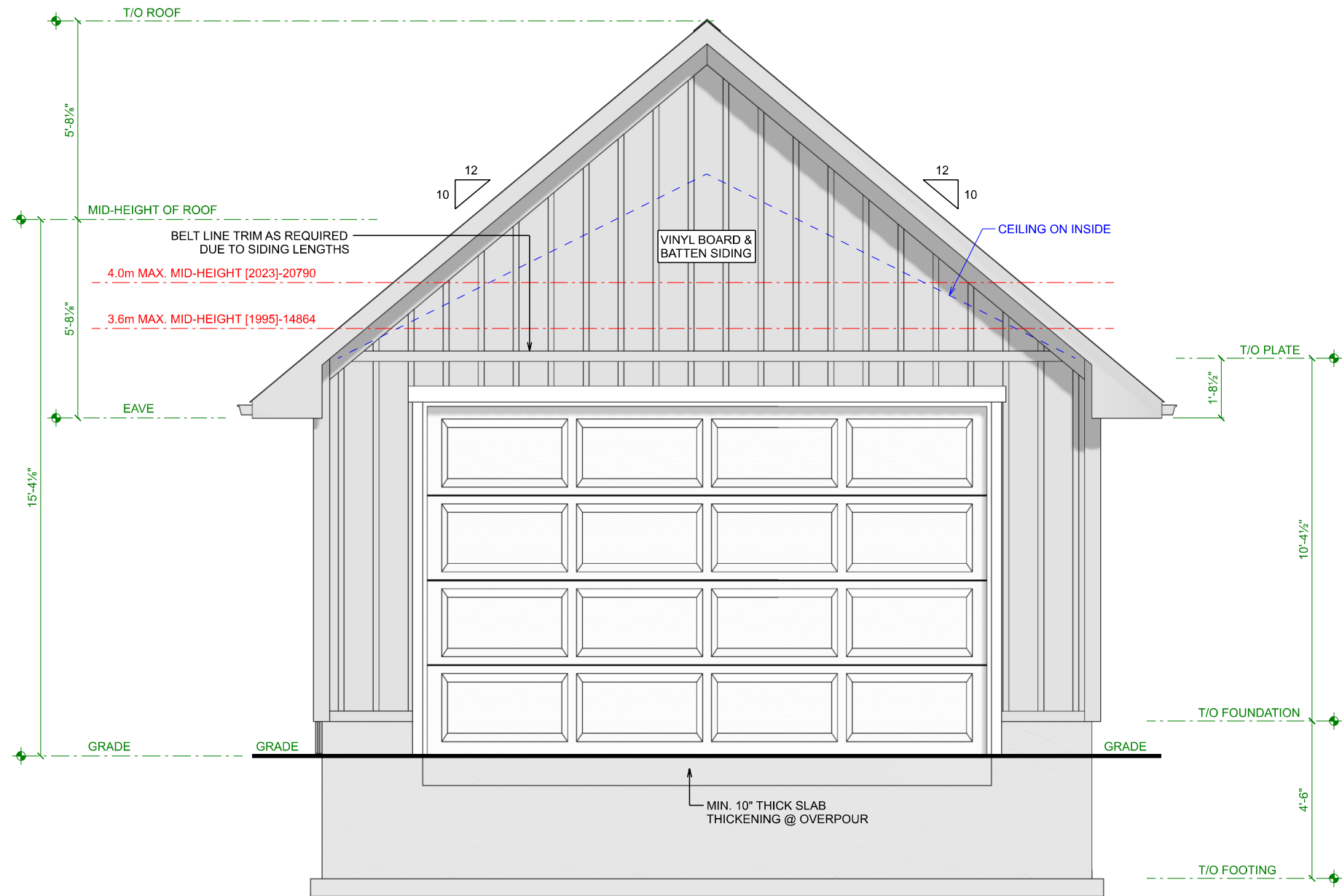
### CROSS SECTION 'B'

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SCALE: 1/4" = 1'-0"

6

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**FRONT ELEVATION**  
SCALE: 1/4" = 1'-0"



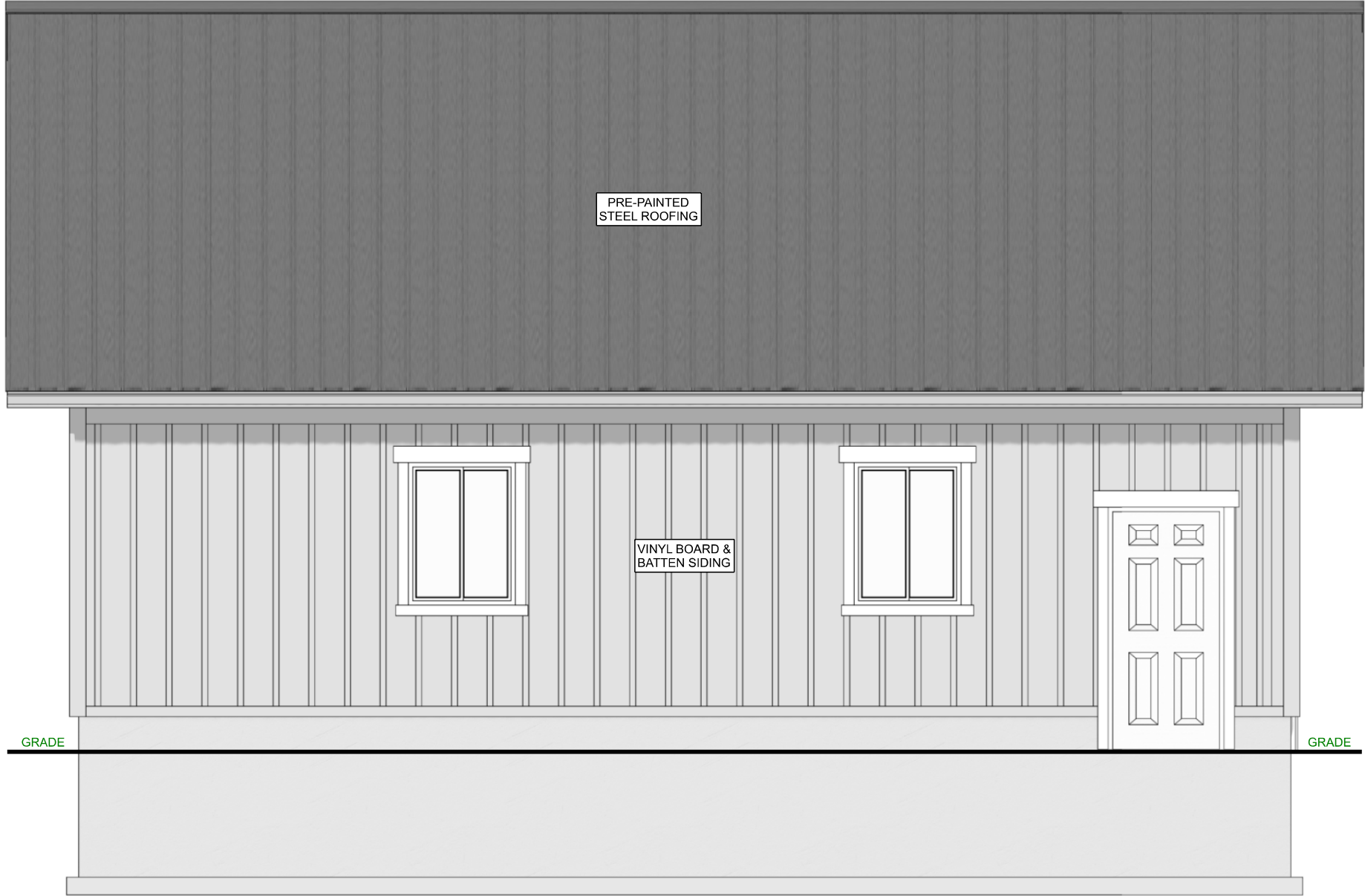
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**FRONT ELEVATION**

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SCALE: 1/4" = 1'-0"



**LEFT ELEVATION**  
SCALE: 1/4" = 1'-0"



**ELEVATE**  
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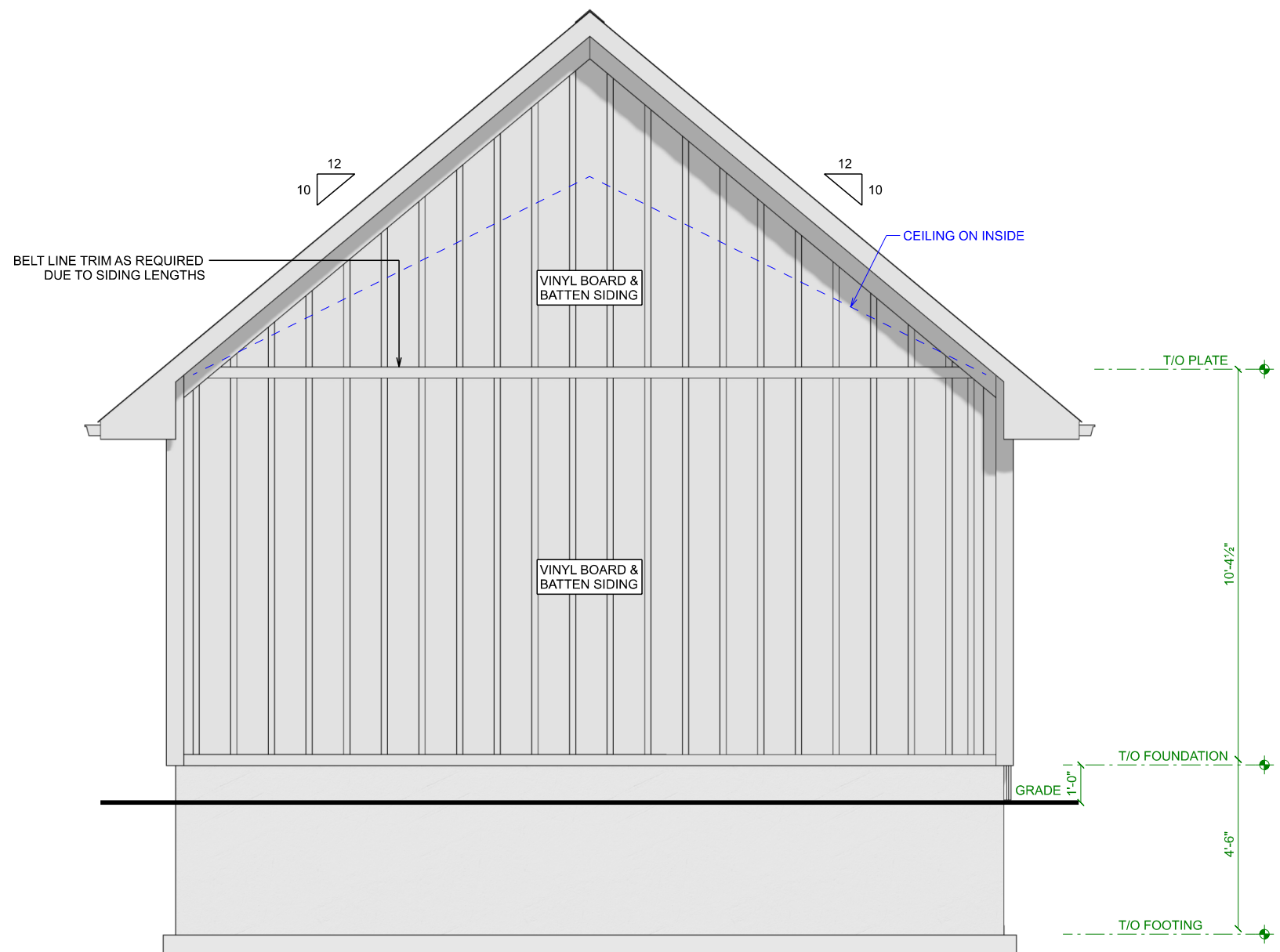
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**LEFT ELEVATION**

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SCALE: 1/4" = 1'-0"



**REAR ELEVATION**  
SCALE: 1/4" = 1'-0"



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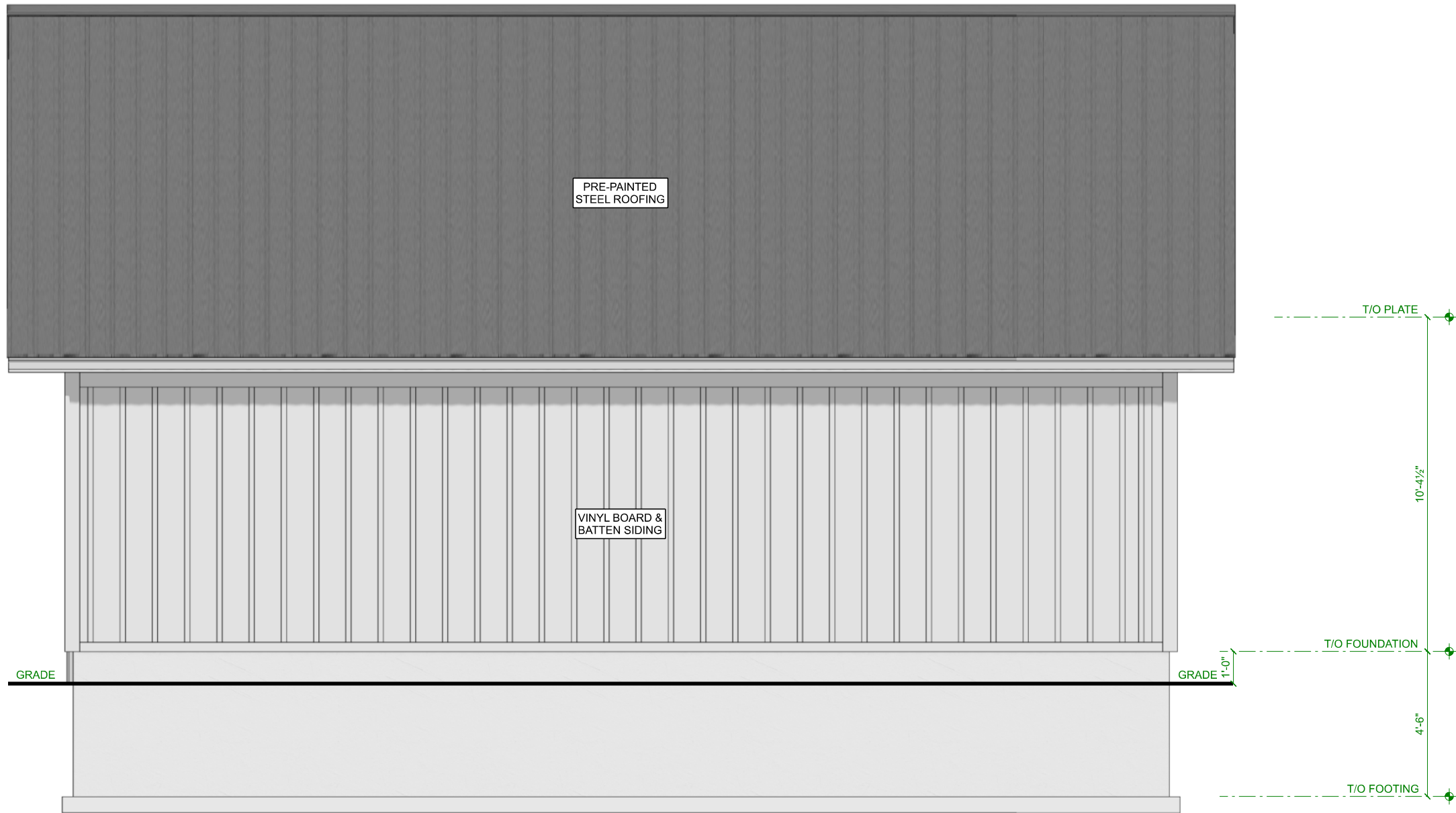
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**REAR ELEVATION**

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**RIGHT ELEVATION**  
SCALE: 1/4" = 1'-0"



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**RIGHT ELEVATION**

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OBC NOTES:

9.3.1. Concrete  
9.3.1.1. General  
(1) Except as provided in Sentence (2), unreinforced and nominally reinforced concrete shall be designed, mixed, placed, cured and tested in accordance with the requirements for "R" class concrete stated in Clause 8.13 of CSA A23.1, "Concrete Materials and Methods of Concrete Construction".  
(2) Unreinforced and nominally reinforced site-batched concrete shall be designed, mixed, placed and cured in accordance with Articles 9.3.1.2. to 9.3.1.9.  
9.3.1.2. Cement  
(1) Cement shall meet the requirements of CAN/CSA-A3001, "Cementitious Materials for Use in Concrete".  
9.3.1.3. Concrete in Contact with Sulfate Soil  
(1) Concrete in contact with sulfate soil, which is deleterious to normal cement, shall conform to the requirements in Clause 15.5 of CAN/CSA-A23.1, "Concrete Materials and Methods of Concrete Construction".  
9.3.1.4. Aggregates  
(1) Aggregates shall,  
(a) consist of sand, gravel, crushed rock, crushed air-cooled blast furnace slag, expanded shale or expanded clay conforming to CAN/CSA-A23.1, "Concrete Materials and Methods of Concrete Construction", and  
(b) be clean, well-graded and free of injurious amounts of organic and other deleterious material.  
9.3.1.5. Water  
(1) Water shall be clean and free of injurious amounts of oil, organic matter, sediment or any other deleterious material.  
9.3.1.6. Compressive Strength  
(1) Except as provided elsewhere in this Part, the compressive strength of unreinforced concrete after 28 days shall be not less than,  
(a) 32 MPa for garage floors, carport floors and all exterior flatwork,  
(b) 20 MPa for interior floors other than those for garages and carports, and  
(c) 15 MPa for all other applications.  
(2) Concrete used for garage and carport floors and exterior steps shall have air entrainment of 5 to 8%.  
9.3.1.7. Concrete Mixes  
(1) For site-batched concrete, the concrete mixes described in Table 9.3.1.7. shall be considered acceptable if the ratio of water to cementing materials does not exceed,  
(a) 0.45 for garage floors, carport floors and all exterior flatwork,  
(b) 0.65 for interior floors other than those for garages and carports, and  
(c) 0.70 for all other applications.  
(2) The size of aggregate in unreinforced concrete mixes referred to in Sentence (1) shall not exceed,  
(a) 1/5 the distance between the sides of vertical forms, or  
(b) 1/3 the thickness of flatwork.  
9.3.1.8. Admixtures  
(1) Admixtures shall conform to ASTM C260, "Air-Entraining Admixtures for Concrete", or ASTM C494 / C494M, "Chemical Admixtures for Concrete", as applicable.  
9.3.1.9. Cold Weather Requirements  
(1) When the air temperature is below 5°C , concrete shall be,  
(a) kept at a temperature of not less than 10°C or more than 25°C while being placed, and  
(b) maintained at a temperature of not less than 10°C for 72 h after placing.  
(2) No frozen material or ice shall be used in concrete described in Sentence (1).

9.20.13.12. Drips Beneath Window Sills  
(1) Except for wall openings located less than 150 mm above ground level, where a concealed flashing is not installed beneath window and door sills, such sills shall be provided with an outward slope and a drip located not less than 25 mm from the wall surface.

9.23 Wood Frame Construction  
9.23.2.1. Strength and Rigidity  
(1) All members shall be so framed, anchored, fastened, tied and braced to provide the necessary strength and rigidity.

9.23.3. Fasteners  
9.23.3.1. Standards for Nails and Screws  
(1) Unless otherwise indicated, nails specified in this Section shall be common steel wire nails or common spiral nails, conforming to CSA B111, "Wire Nails, Spikes and Staples".  
(2) Wood screws specified in this Section shall conform to ANSI/ASME B18.6.1., "Wood Screws (Inch Series)".  
9.23.3.2. Length of Nails  
(1) All nails shall be long enough so that not less than half their required length penetrates into the second member. 9.23.3.3. Prevention of Splitting  
9.23.3.3. Prevention of Splitting  
(1) Splitting of wood members shall be minimized by staggering the nails in the direction of the grain and by keeping nails well in from the edges.  
9.23.3.4. Nailing of Framing  
(1) Except as provided in Sentence (2), nailing of framing shall conform to Table 9.23.3.4.

9.23.16. Wall Sheathing  
9.23.16.1. Required Sheathing  
(1) Exterior walls and gable ends shall be sheathed when the exterior cladding requires intermediate fastening between supports or if the exterior cladding requires solid backing.  
9.23.16.2. Thickness, Rating and Material Standards  
(1) Where wall sheathing is required, it shall conform to Table 9.23.16.2.A. or Table 9.23.16.2.B  
9.23.16.5. Joints in Panel-Type Sheathing  
(1) A gap of not less than 2 mm shall be left between sheets of plywood, OSB, waferboard or fibreboard.

Table 9.23.16.2.B.  
Rating For Wall Sheathing When Applying CAN/CSA-O325.0

Forming Part of Sentence 9.23.16.2.(1)

Item	Column 1	Column 2
	Maximum Spacing of Supports, mm	Panel Mark
1.	406	W16
2.	508	W20
3.	610	W24

Table 9.23.3.4.  
Nailing for Framing  
Forming Part of Sentence 9.23.3.4.(1)

Item	Column 1	Column 2	Column 3
	Construction Detail	Minimum Length of Nails, mm	Minimum Number or Maximum Spacing of Nails
1.	Floor joist to plate – toe nail	82	2
2.	Wood or metal strapping to underside of floor joists	57	2
3.	Cross bridging to joists	57	2 at each end
4.	Double header or trimmer joists	76	300 mm (o.c.)
5.	Floor joist to stud (balloon construction)	76	2
6.	Ledger strip to wood beam	82	2 per joist
7.	Joist to joist splice (See also Table 9.23.13.8.)	76	2 at each end
8.	Header joist end nailed to joists along perimeter	101	3
9.	Tail joist to adjacent header joist (end nailed) around openings	82	5
		101	3
10.	Each header joist to adjacent trimmer joist (end nailed) around openings	82	5
		101	3
11.	Stud to wall plate (each end) toe nail or end nail	62	4
		82	2
12.	Doubled studs at openings, or studs at walls or wall intersections and corners	76	750 mm (o.c.)
13.	Doubled top wall plates	76	600 mm (o.c.)
14.	Bottom wall plate or sole plate to joists or blocking (exterior walls) <sup>(1)</sup>	82	400 mm (o.c.)
15.	Interior walls to framing or subflooring	82	600 mm (o.c.)
16.	Horizontal member over openings in non-loadbearing walls – each end	82	2
17.	Lintels to studs	82	2 at each end
18.	Ceiling joist to plate – toe nail each end	82	2
19.	Roof rafter, roof truss or roof joist to plate – toe nail	82	3
20.	Rafter plate to each ceiling joist	101	2
21.	Rafter to joist (with ridge supported)	76	3
22.	Rafter to joist (with ridge unsupported)	76	See Table 9.23.13.8.
23.	Gusset plate to each rafter at peak	57	4
24.	Rafter to ridge board – toe nail – end nail	82	3
25.	Collar tie to rafter – each end	76	3
26.	Collar tie lateral support to each collar tie	57	2
27.	Jack rafter to hip or valley rafter	82	2
28.	Roof strut to rafter	76	3
29.	Roof strut to loadbearing wall – toe nail	82	2
30.	38 mm × 140 mm or less plank decking to support	82	2
31.	Plank decking wider than 38 mm × 140 mm to support	82	3
32.	38 mm edge laid plank decking to support (toe nail)	76	1
33.	38 mm edge laid plank to each other	76	450 mm (o.c.)

Table 9.23.16.2.A.  
Wall Sheathing Thickness and Specifications  
Forming Part of Sentence 9.23.16.2.(1)

Item	Column 1	Column 2	Column 3	Column 4
	Type of Sheathing	Minimum Thickness, mm <sup>(1)</sup>		Material Standards
		With Supports 406 mm o.c.	With Supports 610 mm o.c.	
1.	Fibreboard (insulating)	9.5	11.1	CAN/ULC-S706
2.	Gypsum Sheathing	9.5	12.7	CAN/CSA-A82.27-M ASTM C1177 / C1177M ASTM C1396 / C1396M
3.	Lumber	17.0	17.0	See Table 9.3.2.1.
4.	Mineral Fibre, Rigid Board, Type 2	25	25	CAN/ULC-S702
5.	OSB, O-2 Grade	6.0	7.5	CSA O437.0
6.	OSB, O-1 Grade, and Waferboard, R-1 Grade	6.35	7.9	CSA O437.0
7.	Phenolic, faced	25	25	CAN/CGSB-51.25-M
8.	Plywood (exterior type)	6	7.5	CSA O121-M CSA O151 CSA O153-M
9.	Polystyrene, Types 1 and 2	38	38	CAN/ULC-S701
10.	Polystyrene, Types 3 and 4	25	25	CAN/ULC-S701
11.	Polyurethane and Polyisocyanurate Type 1, faced	38	38	CAN/ULC-S704
12.	Polyurethane and Polyisocyanurate Types 2 and 3, faced	25	25	CAN/ULC-S704

9.27.4. Caulking  
9.27.4.1. Required Caulking  
(1) Caulking shall be provided where required to prevent the entry of water into the structure.  
(2) Caulking shall be provided between masonry, siding or stucco and the adjacent door and window frames or trim, including sills unless such locations are completely protected from the entry of rain.  
(3) Caulking shall be provided at vertical joints between different cladding materials unless the joint is suitably lapped or flashed to prevent the entry of rain.  
9.27.4.2. Materials  
(1) Caulking shall be,  
(a) a non-hardening type suitable for exterior use,  
(b) selected for its ability to resist the effects of weathering, and  
(c) compatible with and adhere to the substrate to which it is applied.  
(2) Caulking shall conform to,  
(a) CGSB 19-GP-5M, "Sealing Compound, One Component, Acrylic Base, Solvent Curing",  
(b) CAN/CGSB-19.13-M, "Sealing Compound, One Component, Elastomeric, Chemical Curing",  
(c) CGSB 19-GP-14M, "Sealing Compound, One Component, Butyl-Polyisobutylene Polymer Base, Solvent Curing", or  
(d) CAN/CGSB-19.24-M, "Multicomponent, Chemical Curing Sealing Compound".

9.23.15. Roof Sheathing  
9.23.15.1. Required Roof Sheathing  
(1) Except as provided in Section 9.26., continuous lumber or panel-type roof sheathing shall be installed to support the roofing.  
9.23.15.2. Material Standards  
(1) Wood-based panels used for roof sheathing shall conform to the requirements of,  
(a) CSA O121-M, "Douglas Fir Plywood",  
(b) CSA O151, "Canadian Softwood Plywood",  
(c) CSA O153-M, "Poplar Plywood",  
(d) CAN/CSA-O325.0, "Construction Sheathing", or  
(e) CSA O437.0, "OSB and Waferboard".  
9.23.15.3. Direction of Installation  
(1) Plywood roof sheathing shall be installed with the surface grain at right angles to the roof framing.  
(2) OSB roof sheathing conforming to CAN/CSA-O325.0, "Construction Sheathing", or to O-1 and O-2 grades as specified in CSA O437.0, "OSB and Waferboard", shall be installed with the direction of face orientation at right angles to the roof framing members.  
9.23.15.4. Joints in Panel-Type Sheathing  
(1) Panel-type sheathing board shall be applied so that joints perpendicular to the roof ridge are staggered where,  
(a) the sheathing is applied with the surface grain parallel to the roof ridge, and  
(b) the thickness of the sheathing is such that the edges are required to be supported.  
(2) A gap of not less than 2 mm shall be left between sheets of plywood, OSB or waferboard.  
9.23.15.6. Edge Support  
(1) Except as permitted in Sentence (2), where panel-type roof sheathing requires edge support, the support shall consist of,  
(a) metal H clips, or  
(b) not less than 38 mm by 38 mm blocking securely nailed between framing members.  
(2) The supports referred to in Sentence (1) are not required when tongued-and-grooved edged panel-type sheathing board is used.  
9.23.15.7. Thickness or Rating  
(1) The thickness or rating of roof sheathing on a flat roof used as a walking deck shall conform to either Table 9.23.14.5.A. or Table 9.23.14.5.B. for subfloors.

9.34.2.6. Garages and Carports  
(1) A lighting outlet with fixture shall be provided for an attached, built-in or detached garage or carport.  
(2) Except as provided in Sentence (3), lighting outlets required in Sentence (1) shall be controlled by a wall switch near the doorway.  
(3) Where the lighting outlet and fixture required in Sentence (1) are ceiling mounted above an area not normally occupied by a parked car; or are wall mounted, a fixture with a built-inswitch is permitted to be used.  
(4) Where a carport is lighted by a light at the entrance to a dwelling unit, additional carport lighting is not required.

9.15.3.9. Step Footings  
(1) Where step footings are used,  
(a) the vertical rise between horizontal portions shall not exceed 600 mm, and  
(b) the horizontal distance between risers shall be not less than 600 mm.

9.15.4.6. Extension above Ground Level  
(1) Exterior foundation walls shall extend not less than 150 mm above finished ground level.

9.15.6. Parging and Finishing of Foundation Walls  
9.15.6.1. Foundation Walls Below Ground  
(1) Concrete block foundation walls shall be parged on the exterior face below ground level as required in Section 9.13.  
9.15.6.2. Foundation Walls Above Ground  
(1) Exterior surfaces of concrete block foundation walls above ground level shall have tooled joints, or shall be rendered, parged or otherwise suitably finished.

9.15.4. Foundation Walls  
9.15.4.2. Foundation Wall Thickness and Required Lateral Support  
(1) Except as required in Sentence (2), the thickness of foundation walls made of unreinforced concrete block or solid concrete and subject to lateral earth pressure shall conform to Table 9.15.4.2.A. for walls not exceeding 2.5 m in unsupported height.  
(4) Where average stable soils are encountered and wind loads on the exposed portion of the foundation are no greater than 0.70 kPa, the thickness and reinforcing of foundation walls made of reinforced concrete block and subject to lateral earth pressure shall conform to Table 9.15.4.2.B. and Sentences (5) to (10).  
(5) For concrete block walls required to be reinforced, continuous vertical reinforcement shall,  
(a) be provided at wall corners, wall ends, wall intersections, at changes in wall height, at the jambs of all openings and at movement joints,  
(b) extend from the top of the footing to the top of the foundation wall,  
(c) where foundation walls are laterally unsupported at the top, have not less than 600 mm embedment into the footing, and  
(d) where foundation walls are laterally supported at the top, have not less than 50 mm embedment into the footing, if the floor slab does not provide lateral support at the wall base.  
(6) Where foundation walls are laterally unsupported, the footing shall be designed according to Part 4 to resist overturning and sliding, if the maximum height of finished ground above the basement floor or crawl space ground cover exceeds 1.50 m.  
(7) At the base of concrete block walls required to be reinforced and where the height of finished ground above the basement floor or crawl space ground cover exceeds 2.0 m, not less than one 15M intermediate vertical bar reinforcement shall be installed midway between adjacent continuous vertical reinforcement, and shall,  
(a) extend to not less than 600 mm above the top of the footing, and  
(b) have not less than 50 mm embedment into the footing, if the floor slab does not provide lateral support at the wall base.  
(8) For concrete block walls required to be reinforced, a continuous horizontal bond beam containing at least one 15M bar shall be installed,  
(a) along the top of the wall,  
(b) at the sill and head of all openings greater than 1.20 m in width, and  
(c) at structurally connected floors.  
(9) In concrete block walls required to be reinforced, all vertical bar reinforcement shall be installed along the centre line of the wall.  
(10) In concrete block walls required to be reinforced, ladder or truss type lateral reinforcement not less than 3.8 mm (No. 9 ASWG) shall be installed in the bed joint of every second masonry course.  
9.15.4.3. Foundation Walls Considered to be Laterally Supported at the Top  
(1) Sentences (2) to (4) apply to lateral support for walls described in Sentence 9.15.4.2.(1).  
(2) Foundation walls shall be considered to be laterally supported at the top if,  
(a) such walls support solid masonry superstructure,  
(b) the floor joists are embedded in the top of the foundation walls, or  
(c) the floor system is anchored to the top of the foundation walls with anchor bolts, in which case the joists may run either parallel or perpendicular to the foundation walls.  
(3) Unless the wall around an opening is reinforced to withstand earth pressure, the portion of the foundation wall beneath an opening shall be considered laterally unsupported, if,  
(a) the opening is more than 1.2 m wide, or  
(b) the total width of the openings in the foundation wall constitutes more than 25% of the length of the wall.  
(4) For the purposes of Sentence (3), the combined width of the openings shall be considered as a single opening if the average width is greater than the width of solid wall between them.



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OBC NOTES

PROJECT NO: 25-004  
STARTING DATE: Jan 16, 2025  
LAST REVISION DATE: Feb 17, 2025  
DRAWN BY:

SCALE: N.T.S.