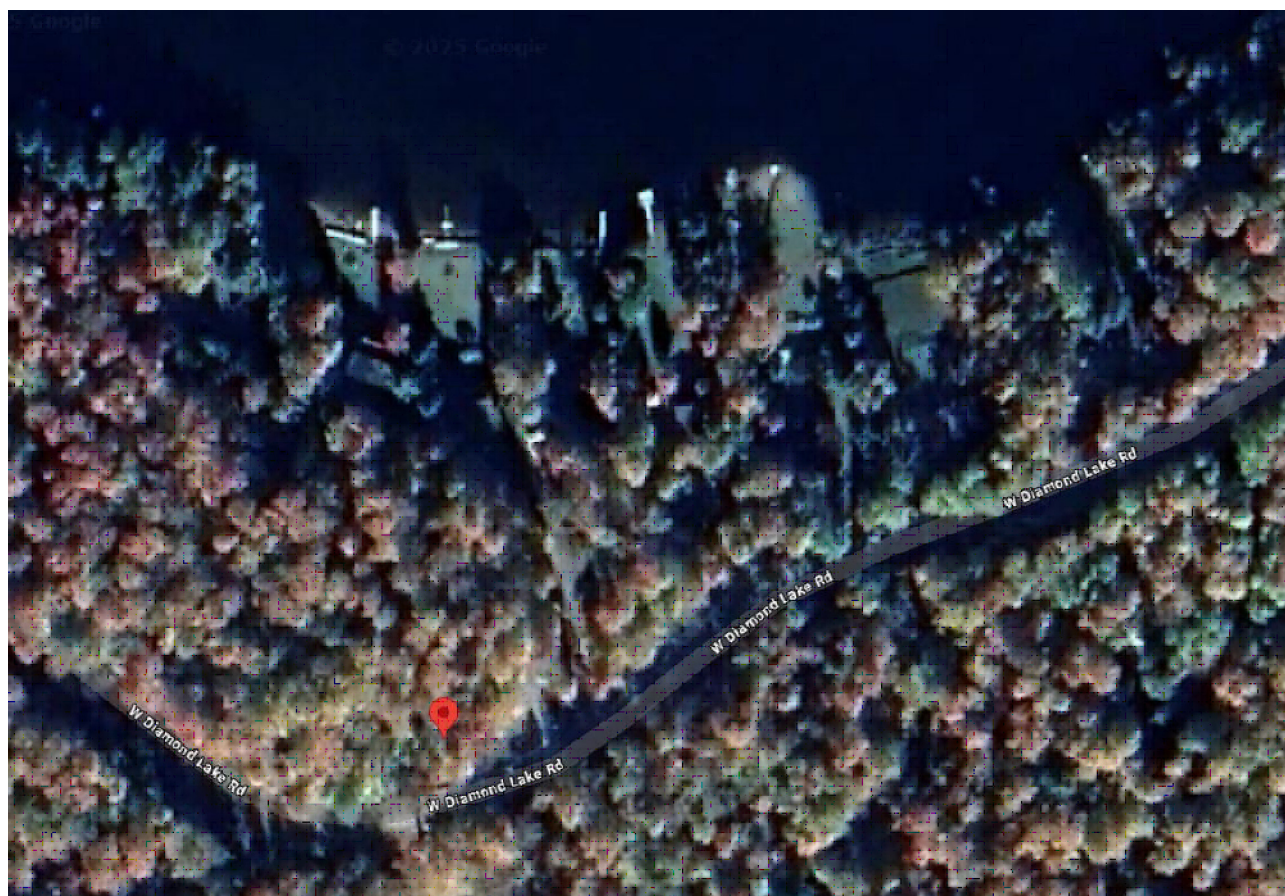


SCHEERHOORN COTTAGE



ELEVATION:

ELEVATION:



KEY MAP 2 OR SCHEMATIC SITE PLAN:

ENERGY EFFICIENCY DESIGN AS PER OBC 2012 SB-12:

GROSS WALL AREA - 2,447.8 SQ FT (227.4m²)
GROSS WINDOWS, GLASS AREA ETC. - 451.99 SQ FT (41.95m²)
RATIO - 18.45%

TABLE 3.1.1.2.A (IP)							
ZONE 1 - COMPLIANCE PACKAGES FOR SPACE HEATING EQUIPMENT WITH AFUE ≥ 92%							
FORMING PART OF SENTENCE 3.1.1.2.1)							
COMPONENT	THERMAL VALUES ¹⁾	COMPLIANCE PACKAGES					
		A1	A2	A3	A4	A5	A6
CEILING WITH ATTIC SPACE	MIN. NOMINAL R ¹¹⁾	60	60	50	60	50	60
	MAX. U ¹²⁾	0.017	0.017	0.020	0.017	0.020	0.017
	MIN. EFFECTIVE R ¹³⁾	59.22	59.22	49.23	59.22	49.23	59.22
	MIN. NOMINAL R ¹⁴⁾	31	31	21	31	21	31
CEILING WITHOUT ATTIC SPACE	MAX. U ¹²⁾	0.036	0.036	0.036	0.036	0.036	0.036
	MIN. EFFECTIVE R ¹³⁾	27.65	27.65	27.65	27.65	27.65	27.65
	MIN. NOMINAL R ¹⁴⁾	31	35	31	31	35	31
	MAX. U ¹²⁾	0.034	0.034	0.031	0.034	0.031	0.034
EXPOSED FLOOR	MIN. EFFECTIVE R ¹³⁾	29.80	29.80	32.02	29.80	32.02	29.80
	MIN. NOMINAL R ¹⁴⁾	22	17 + 50i	17 + 50i	22	17 + 50i	22 + 50i
	MAX. U ¹²⁾	0.059	0.049	0.054	0.047	0.049	0.047
	MIN. EFFECTIVE R ¹³⁾	17.03	20.32	18.62	21.40	20.32	21.40
WALLS ABOVE GRADE	MIN. NOMINAL R ¹⁴⁾	200i	12 + 100i	200i	200i	12 + 50i	200i
	MAX. U ¹²⁾	0.047	0.048	0.047	0.047	0.063	0.047
	MIN. EFFECTIVE R ¹³⁾	21.12	20.84	21.12	21.12	15.95	21.12
	MIN. NOMINAL R ¹⁴⁾	-	-	-	-	-	-
BASEMENT WALLS ¹⁵⁾	MAX. U ¹²⁾	-	-	-	-	-	-
	MIN. EFFECTIVE R ¹³⁾	-	-	-	-	-	-
	MIN. NOMINAL R ¹⁴⁾	-	-	-	-	-	-
	MAX. U ¹²⁾	-	-	-	-	-	-
BELOW GRADE SLAB > 600mm BELOW GRADE	MAX. U ¹²⁾	10	10	10	10	10	10
	MIN. EFFECTIVE R ¹³⁾	0.090	0.090	0.090	0.090	0.090	0.090
	MIN. NOMINAL R ¹⁴⁾	11.13	11.13	11.13	11.13	11.13	11.13
	MAX. U ¹²⁾	-	-	-	-	-	-
HEATED SLAB OR SLAB < 600mm BELOW GRADE	MIN. NOMINAL R ¹⁴⁾	10	10	10	10	10	10
	MAX. U ¹²⁾	0.28	0.28	0.25	0.28	0.28	0.28
	MIN. EFFECTIVE R ¹³⁾	25	25	29	25	25	25
	MAX. U ¹²⁾	0.49	0.49	0.49	0.49	0.49	0.49
SPRINKLED BUILDING	MIN. AFUE	96%	96%	94%	96%	94%	92%
	MIN. SRE	75%	75%	81%	75%	70%	65%
	MIN. EF	0.60	0.70	0.67	0.67	0.60	0.60
	MAX. U ¹²⁾	-	-	-	-	-	-
CEILING WITH ATTIC SPACE	MIN. NOMINAL R ¹⁴⁾	60	60	60	60	60	60
	MAX. U ¹²⁾	0.017	0.017	0.020	0.017	0.020	0.017
	MIN. EFFECTIVE R ¹³⁾	59.22	59.22	49.23	59.22	49.23	59.22
	MIN. NOMINAL R ¹⁴⁾	31	31	31	31	31	31
CEILING WITHOUT ATTIC SPACE	MAX. U ¹²⁾	0.036	0.036	0.036	0.036	0.036	0.036
	MIN. EFFECTIVE R ¹³⁾	27.65	27.65	27.65	27.65	27.65	27.65
	MIN. NOMINAL R ¹⁴⁾	31	31	35	31	35	31
	MAX. U ¹²⁾	0.034	0.034	0.031	0.034	0.031	0.034
WALLS ABOVE GRADE	MIN. EFFECTIVE R ¹³⁾	29.80	29.80	32.02	29.80	32.02	29.80
	MIN. NOMINAL R ¹⁴⁾	22	19 + 50i	14 + 7.50i	22 + 50i	19 + 50i	22 + 50i
	MAX. U ¹²⁾	0.059	0.049	0.054	0.047	0.049	0.047
	MIN. EFFECTIVE R ¹³⁾	17.03	20.32	18.62	21.40	20.32	21.40
BASEMENT WALLS ¹⁵⁾	MIN. NOMINAL R ¹⁴⁾	200i	12 + 100i	200i	200i	12 + 50i	200i
	MAX. U ¹²⁾	0.047	0.048	0.047	0.047	0.063	0.047
	MIN. EFFECTIVE R ¹³⁾	21.12	20.84	21.12	21.12	15.95	21.12
	MIN. NOMINAL R ¹⁴⁾	-	-	-	-	-	-
BELOW GRADE SLAB > 600mm BELOW GRADE	MAX. U ¹²⁾	-	-	-	-	-	-
	MIN. EFFECTIVE R ¹³⁾	-	-	-	-	-	-
	MIN. NOMINAL R ¹⁴⁾	-	-	-	-	-	-
	MAX. U ¹²⁾	-	-	-	-	-	-
HEATED SLAB OR SLAB < 600mm BELOW GRADE	MAX. U ¹²⁾	10	10	10	10	10	10
	MIN. EFFECTIVE R ¹³⁾	0.090	0.090	0.090	0.090	0.090	0.090
	MIN. NOMINAL R ¹⁴⁾	11.13	11.13	11.13	11.13	11.13	11.13
	MAX. U ¹²⁾	-	-	-	-	-	-
EDGE OF BELOW GRADE SLAB < 600mm BELOW GRADE	MIN. NOMINAL R ¹⁴⁾	10	10	10	10	10	10
	MAX. U ¹²⁾	0.28	0.28	0.25	0.28	0.28	0.28
	MIN. EFFECTIVE R ¹³⁾	25	25	29	25	25	25
	MAX. U ¹²⁾	0.49	0.49	0.49	0.49	0.49	0.49
SPRINKLED BUILDING	MIN. AFUE	96%	96%	94%	96%	94%	92%
	MIN. SRE	75%	75%	81%	75%	70%	65%
	MIN. EF	0.60	0.70	0.67	0.67	0.60	0.60
	MAX. U ¹²⁾	-	-	-	-	-	-
CEILING WITH ATTIC SPACE	MIN. NOMINAL R ¹⁴⁾	60	60	60	60	60	60
	MAX. U ¹²⁾	0.017	0.017	0.020	0.017	0.020	0.017
	MIN. EFFECTIVE R ¹³⁾	59.22	59.22	49.23	59.22	49.23	59.22
	MIN. NOMINAL R ¹⁴⁾	31	31	31	31	31	31
CEILING WITHOUT ATTIC SPACE	MAX. U ¹²⁾	0.036	0.036	0.036	0.036	0.036	0.036
	MIN. EFFECTIVE R ¹³⁾	27.65	27.65	27.65	27.65	27.65	27.65
	MIN. NOMINAL R ¹⁴⁾	31	31	35	31	35	31
	MAX. U ¹²⁾	0.034	0.034	0.031	0.034	0.031	0.034
WALLS ABOVE GRADE	MIN. EFFECTIVE R ¹³⁾	29.80	29.80	32.02	29.80	32.02	29.80
	MIN. NOMINAL R ¹⁴⁾	22	19 + 50i	14 + 7.50i	22 + 50i	19 + 50i	22 + 50i
	MAX. U ¹²⁾	0.059	0.049	0.054	0.047	0.049	0.047
	MIN. EFFECTIVE R ¹³⁾	17.03	20.32	18.62	21.40	20.32	21.40
BASEMENT WALLS ¹⁵⁾	MIN. NOMINAL R ¹⁴⁾	200i	12 + 100i	200i	200i	12 + 50i	200i
	MAX. U ¹²⁾	0.047	0.048	0.047	0.047	0.063	0.047
	MIN. EFFECTIVE R ¹³⁾	21.12	20.84	21.12	21.12	15.95	21.12
	MIN. NOMINAL R ¹⁴⁾	-	-	-	-	-	-
BELOW GRADE SLAB > 600mm BELOW GRADE	MAX. U ¹²⁾	-	-	-	-	-	-
	MIN. EFFECTIVE R ¹³⁾	-	-	-	-	-	-
	MIN. NOMINAL R ¹⁴⁾	-	-	-	-	-	-
	MAX. U ¹²⁾	-	-	-	-	-	-
HEATED SLAB OR SLAB < 600mm BELOW GRADE	MAX. U ¹²⁾	10	10	10	10	10	10
	MIN. EFFECTIVE R ¹³⁾	0.090	0.090	0.090	0.090	0.090	0.090
	MIN. NOMINAL R ¹⁴⁾	11.13	11.13	11.13	11.13	11.13	11.13
	MAX. U ¹²⁾	-	-	-	-	-	-
EDGE OF BELOW GRADE SLAB < 600mm BELOW GRADE	MIN. NOMINAL R ¹⁴⁾	10	10	10	10	10	10
	MAX. U ¹²⁾	0.28	0.28	0.25	0.28	0.28	0.28
	MIN. EFFECTIVE R ¹³⁾	25	25	29	25	25	25
	MAX. U ¹²⁾	0.49	0.49	0.49	0.49	0.49	0.49
SPRINKLED BUILDING	MIN. AFUE	96%	96%	94%	96%	94%	92%
	MIN. SRE	75%	75%	81%	75%	70%	65%
	MIN. EF	0.60	0.70	0.67	0.67	0.60	0.60
	MAX. U ¹²⁾	-	-	-	-	-	-
CEILING WITH ATTIC SPACE	MIN. NOMINAL R ¹⁴⁾	60	60	60	60	60	60
	MAX. U ¹²⁾	0.017	0.017	0.020	0.017	0.020	0.017
	MIN. EFFECTIVE R ¹³⁾	59.22	59.22	49.23	59.22	49.23	59.22
	MIN. NOMINAL R ¹⁴⁾	31	31	31	31	31	31
CEILING WITHOUT ATTIC SPACE	MAX. U ¹²⁾	0.036	0.036	0.036	0.036	0.036	0.036
	MIN. EFFECTIVE R ¹³⁾	27.65	27.65	27.65	27.65	27.65	27.65
	MIN. NOMINAL R ¹⁴⁾	31	31	35	31	35	31
	MAX. U ¹²⁾	0.034	0.034	0.031	0.034	0.031	0.034
WALLS ABOVE GRADE	MIN. EFFECTIVE R ¹³⁾	29.80	29.80	32.02	29.80	32.02	29.80
	MIN. NOMINAL R ¹⁴⁾	22	19 + 50i	14 + 7.50i	22 + 50i	19 + 50i	22 + 50i
	MAX. U ¹²⁾	0.059	0.049	0.054	0.047	0.049	0.047
	MIN. EFFECTIVE R ¹³⁾	17.03	20.32	18.62	21.40	20.32	21.40
BASEMENT WALLS ¹⁵⁾	MIN. NOMINAL R ¹⁴⁾	200i	12 + 100i	200i	200i	12 + 50i	200i
	MAX. U ¹²⁾	0.047	0.048	0.047	0.047	0.063	0.047
	MIN. EFFECTIVE R ¹³⁾	21.12	20.84	21.12	21.12	15.95	21.12
	MIN. NOMINAL R ¹⁴⁾	-	-	-	-	-	-
BELOW GRADE SLAB > 600mm BELOW GRADE	MAX. U ¹²⁾	-	-	-	-	-	-
	MIN. EFFECTIVE R ¹³⁾	-	-	-	-	-	-
	MIN. NOMINAL R ¹⁴⁾	-	-	-	-	-	-
	MAX. U ¹²⁾	-	-	-	-	-	-
HEATED SLAB OR SLAB < 600mm BELOW GRADE	MAX. U ¹²⁾	10	10	10	10	10	10
	MIN. EFFECTIVE R ¹³⁾	0.090	0.090	0.090	0.090	0.090	0.090
	MIN. NOMINAL R ¹⁴⁾	11.13	11.13	11.13	11.13	11.13	11.13
	MAX. U ¹²⁾	-	-	-	-	-	-
EDGE OF BELOW GRADE SLAB < 600mm BELOW GRADE	MIN. NOMINAL R ¹⁴⁾	10	10	10	10	10	10
	MAX. U ¹²⁾	0.28	0.28	0.25	0.28	0.28	0.28
	MIN. EFFECTIVE R ¹³⁾	25	25	29	25	25	25
	MAX. U ¹²⁾	0.49	0.49	0.49	0.49	0.49	0.49
SPRINKLED BUILDING	MIN. AFUE	96%	96%	94%	96%	94%	92%
	MIN. SRE	75%	75%	81%	75%	70%	65%
	MIN. EF	0.60	0.70	0.67	0.67	0.60	0.60
	MAX. U ¹²⁾	-	-	-	-	-	-
CEILING WITH ATTIC SPACE	MIN. NOMINAL R ¹⁴⁾	60	60	60	60	60	60
	MAX. U ¹²⁾	0.017	0.017	0.020	0.017	0.020	0.017
	MIN. EFFECTIVE R ¹³⁾	59.22	59.22	49.23	59.22	49.23	59.22
	MIN. NOMINAL R ¹⁴⁾	31	31	31	31	31	31
CEILING WITHOUT ATTIC SPACE	MAX. U ¹²⁾	0.036	0.036	0.036	0.036	0.036	0.036
	MIN. EFFECTIVE R ¹³⁾	27.65	27.65	27.65	27.65	27.65	27.65
	MIN. NOMINAL R ¹⁴⁾	31	31	35	31	35	31
	MAX. U ¹²⁾	0.034	0.034	0.031	0.034	0.031	0.034
WALLS ABOVE GRADE	MIN. EFFECTIVE R ¹³⁾	29.80	29.80	32.02	29.80	32.02	29.80
	MIN. NOMINAL R ¹⁴⁾	22	19 + 50i	14 + 7.50i	22 + 50i	19 + 50i	22 + 50i
	MAX. U ¹²⁾	0.059	0.049	0.054	0.047	0.049	0.047
	MIN. EFFECTIVE R ¹³⁾	17.03	20.32	18.62	21.40	20.32	21.40
BASEMENT WALLS ¹⁵⁾	MIN. NOMINAL R ¹⁴⁾	200i	12 + 100i	200i	200i	12 + 50i	200i
	MAX. U ¹²⁾	0.047	0.048	0.047	0.047	0.063	0.047
	MIN. EFFECTIVE R ¹³⁾	21.12	20.84	21.12	21.12	15.95	21.12
	MIN. NOMINAL R ¹⁴⁾	-	-	-	-	-	-
BELOW GRADE SLAB > 600mm BELOW GRADE	MAX. U ¹²⁾	-	-	-	-	-	-
	MIN. EFFECTIVE R ¹³⁾	-	-	-	-	-	-
	MIN. NOMINAL R ¹⁴⁾	-	-	-	-	-	-
	MAX. U ¹²⁾	-	-	-	-	-	-
HEATED SLAB OR SLAB < 600mm BELOW GRADE	MAX. U ¹²⁾	10	10	10	10	10	10
	MIN. EFFECTIVE R ¹³⁾	0.090	0.090	0.090	0.090	0.090	0.090
	MIN. NOMINAL R ¹⁴⁾	11.13	11.13	11.13	11.13	11.13	11.13
	MAX. U ¹²⁾	-	-	-	-	-	-
EDGE OF BELOW GRADE SLAB < 600mm BELOW GRADE	MIN. NOMINAL R ¹⁴⁾	10	10	10	10	10	10
	MAX. U ¹²⁾	0.28	0.28	0.25	0.28	0.28	0.28
	MIN. EFFECTIVE R ¹³⁾	25	25	29	25	25	25
	MAX. U ¹²⁾	0.49	0.49	0.49	0.49	0.49	0.49
SPRINKLED BUILDING	MIN. AFUE	96%	96%	94%	96%	94%	92%
	MIN. SRE	75%	75%	81%	75%	70%	65%
	MIN. EF	0.60	0.70	0.67	0.67	0.60	0.60
	MAX. U ¹²⁾	-	-	-	-	-	-
CEILING WITH ATTIC SPACE	MIN. NOMINAL R ¹⁴⁾	60	60	60	60	60	60
	MAX. U ¹²⁾	0.017	0.017	0.020	0.017	0.020	0.017
	MIN. EFFECTIVE R ¹³⁾	59.22	59.22	49.23	59.22	49.23	59.22
	MIN. NOMINAL R ¹⁴⁾	31	31	31	31	31	31
CEILING WITHOUT ATTIC SPACE	MAX. U ¹²⁾	0.036	0.036	0.036	0.036	0.036	0.036
	MIN. EFFECTIVE R ¹³⁾	27.65	27.65	27.65	27.65	27.65	27.65
	MIN. NOMINAL R ¹⁴⁾	31	31	35	31	35	31
	MAX. U ¹²⁾	0.034					



**MUNICIPALITY OF
HASTINGS HIGHLAND**
33011 HWY 62N, P.O. BOX 130
MAYNOOTH, KOL 250
613-338-2811

DESIGNED BY:

girard
ENGINEERING
2478153 ONTARIO INC.

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DALE & TASHA
SCHEERHOORN
227 WEST DIAMOND LAKE ROAD
HIGHLAND GROVE, ON

PROPOSED COTTAGE

FLOOR PLANS

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

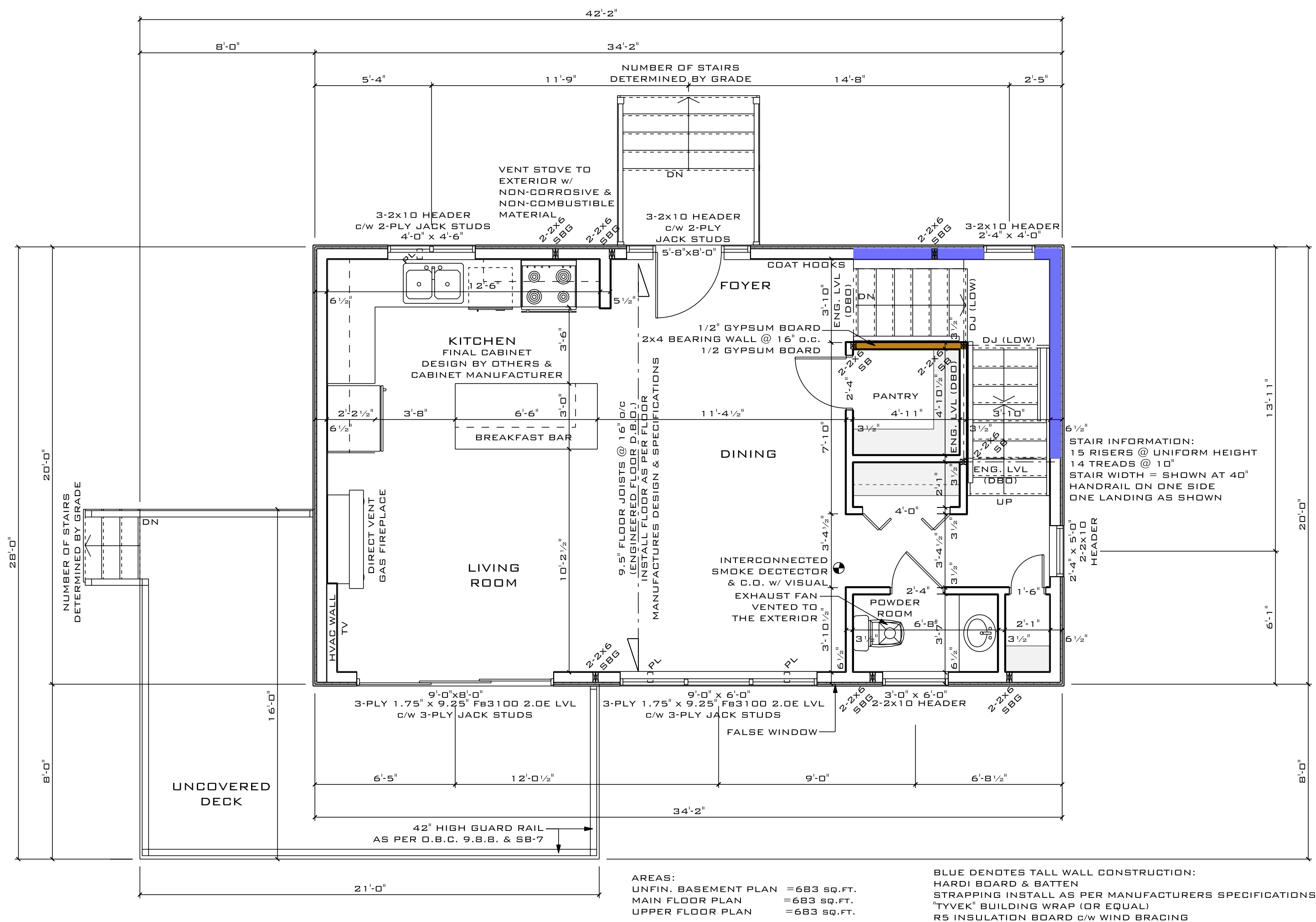
DATE: FRIDAY, JULY 11, 2025

DRAWING BY: T.STREATCH

DESIGNED/CHECKED BY: M. VASANTHA

PROJECT NO: 24-286

A-1



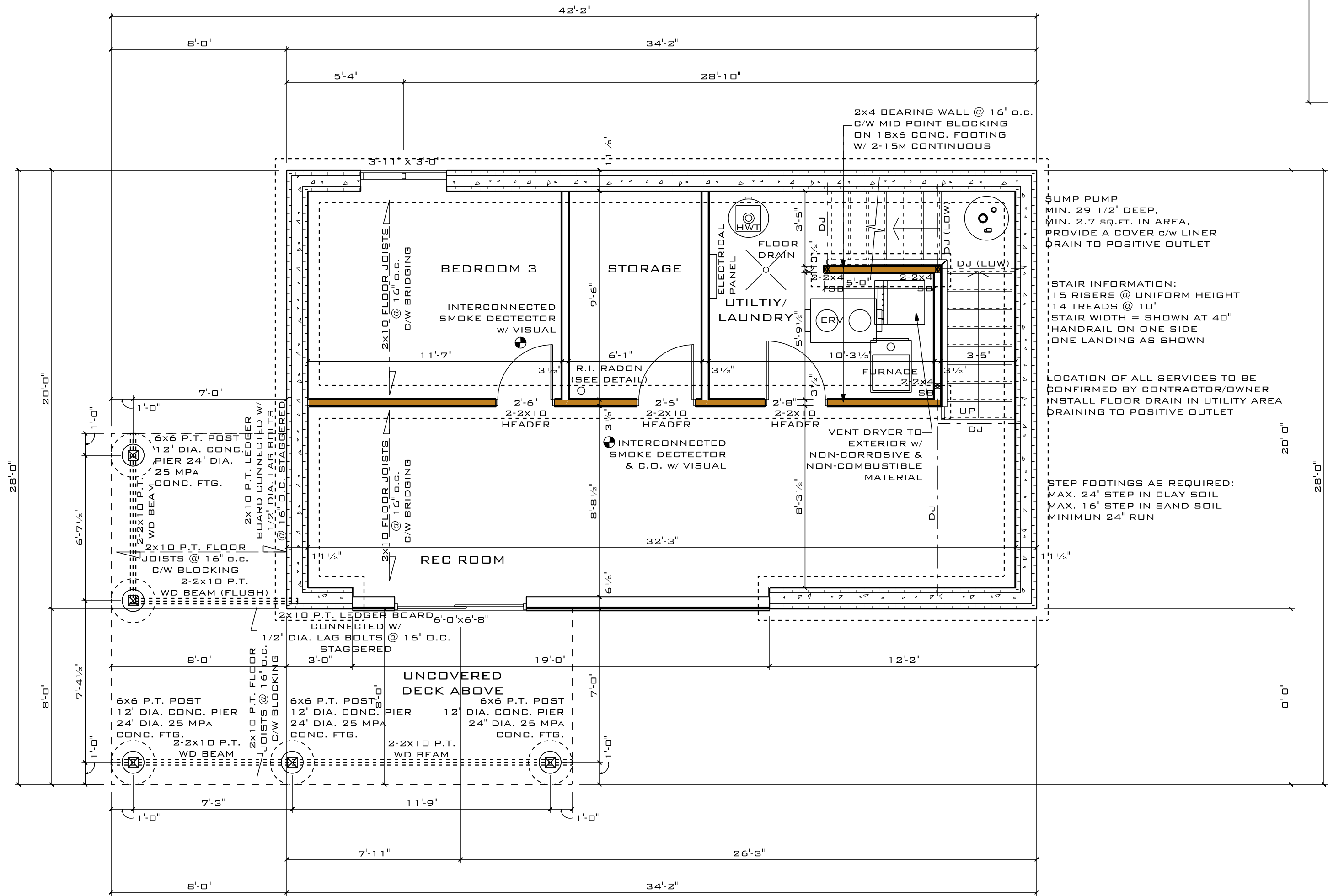
MAIN FLOOR PLAN

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

AREAS:
UNFIN. BASEMENT PLAN = 683 SQ.FT.
MAIN FLOOR PLAN = 683 SQ.FT.
UPPER FLOOR PLAN = 683 SQ.FT.

BLUE DENOTES TALL WALL CONSTRUCTION:
HARDI BOARD & BATTEN
STRAPPING INSTALL AS PER MANUFACTURERS SPECIFICATIONS
TYVEK® BUILDING WRAP (OR EQUAL)
R19 INSULATION BOARD C/W WIND BRACING
2-2x6 STUDS @ 16" O.C. MAX. C/W BLOCKING @ 48" O.C.
R19 BATT INSULATION
6MIL POLY VAPOUR BARRIER
1/2" GYPSUM BOARD

ALL SMOKE & C.O. DETECTORS MUST BE PROVIDED
WITH A BATTERY BACK UP THAT IS CAPABLE
OF SUPPLYING POWER FOR AT LEAST 7 DAYS
AND IS FOLLOWED BY 4 MINUTE ALARM



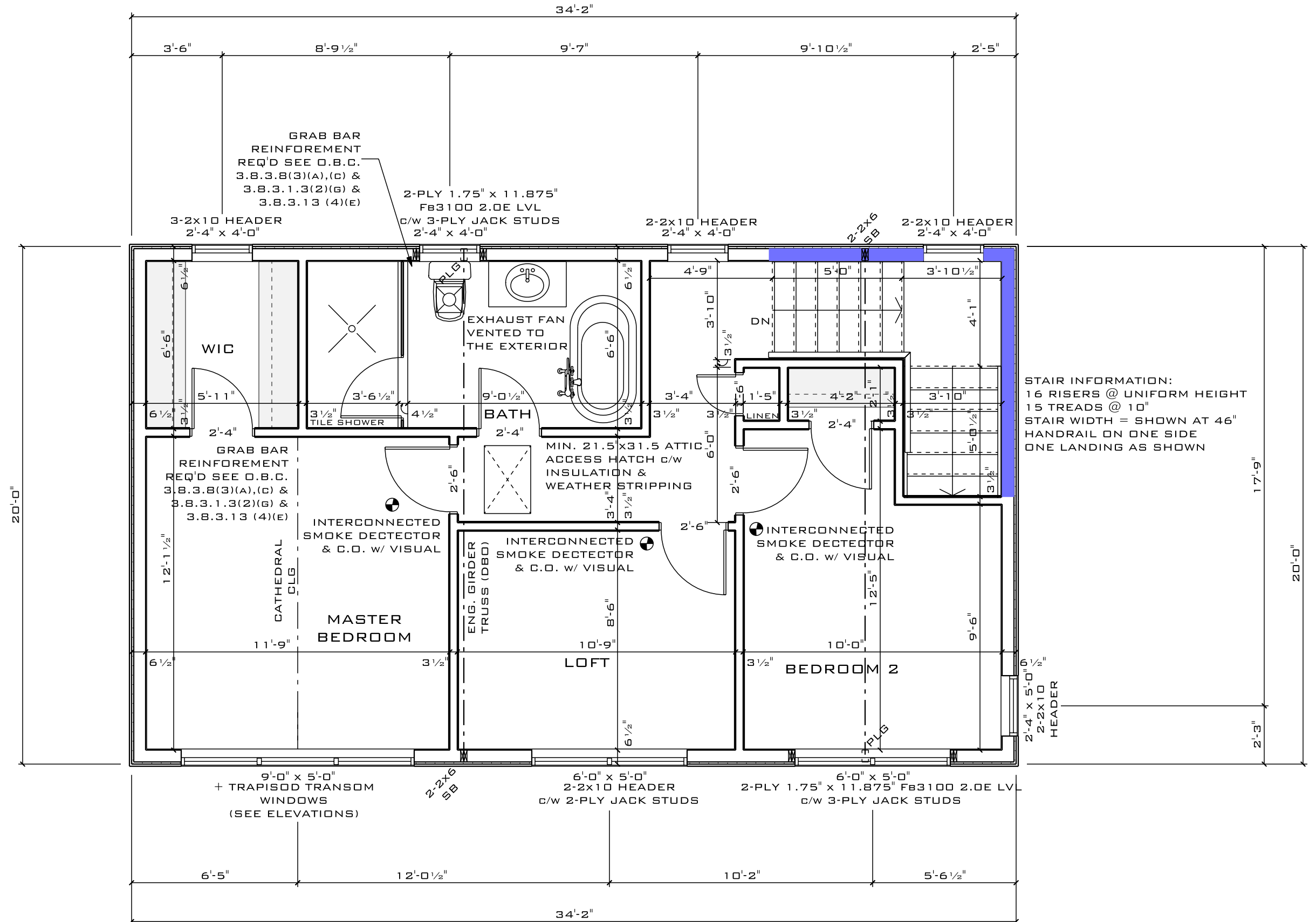
SUMP PUMP
MIN. 29 1/2" DEEP,
MIN. 2.7 SQ. FT. IN AREA,
PROVIDE A COVER C/W LINER
DRAIN TO POSITIVE OUTLET
:
:
:
:
STAIR INFORMATION:
15 RISERS @ UNIFORM HEIGHT
14 TREADS @ 10"
STAIR WIDTH = SHOWN AT 40"
HANDRAIL ON ONE SIDE
ONE LANDING AS SHOWN

LOCATION OF ALL SERVICES TO BE
CONFIRMED BY CONTRACTOR/OWNER
INSTALL FLOOR DRAIN IN UTILITY AREA
DRAINING TO POSITIVE OUTLET

STEP FOOTINGS AS REQUIRED:
MAX. 24" STEP IN CLAY SOIL
MAX. 16" STEP IN SAND SOIL
MINIMUM 24" RUN

FOUNDATION PLAN

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



STAIR INFORMATION:
16 RISERS @ UNIFORM HEIGHT
15 TREADS @ 10"
STAIR WIDTH = SHOWN AT 46"
HANDRAIL ON ONE SIDE
ONE LANDING AS SHOWN

UPPER FLOOR PLAN

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

BUILDING HEIGHT
(TOP OF RIDGE) +31'-8 1/2'

BUILDING HEIGHT
(MID-ROOF) +26'-0'

T/O WOOD PLATE +20'-8 3/8'

T/O SECOND FLOOR +12'-7 1/4'

T/O WOOD PLATE +11'-6 5/8'

T/O MAIN FLOOR +2'-5 1/2'

T/O FOUNDATION WALL +1'-6'

GRADE +0'-0'

T/O BASEMENT FLOOR -7'-7'

U/S FOOTING -8'-6'

BUILDING HEIGHT
(TOP OF RIDGE) +31'-8 1/2'

BUILDING HEIGHT
(MID-ROOF) +26'-0'

T/O WOOD PLATE +20'-8 3/8'

T/O SECOND FLOOR +12'-7 1/4'

T/O WOOD PLATE +11'-6 5/8'

T/O MAIN FLOOR +2'-5 1/2'

T/O FOUNDATION WALL +1'-6'

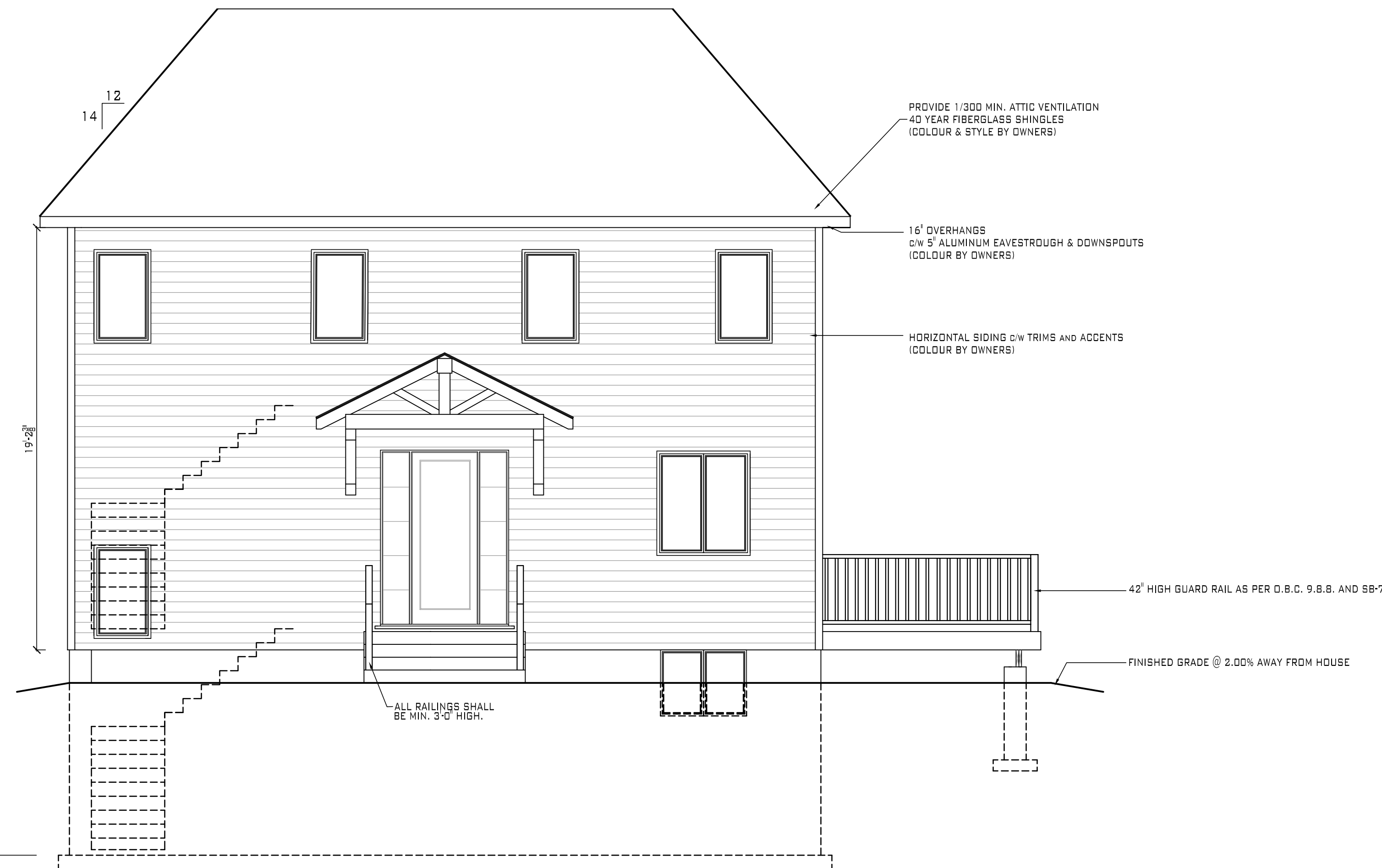
GRADE +0'-0'

T/O BASEMENT FLOOR -7'-7'

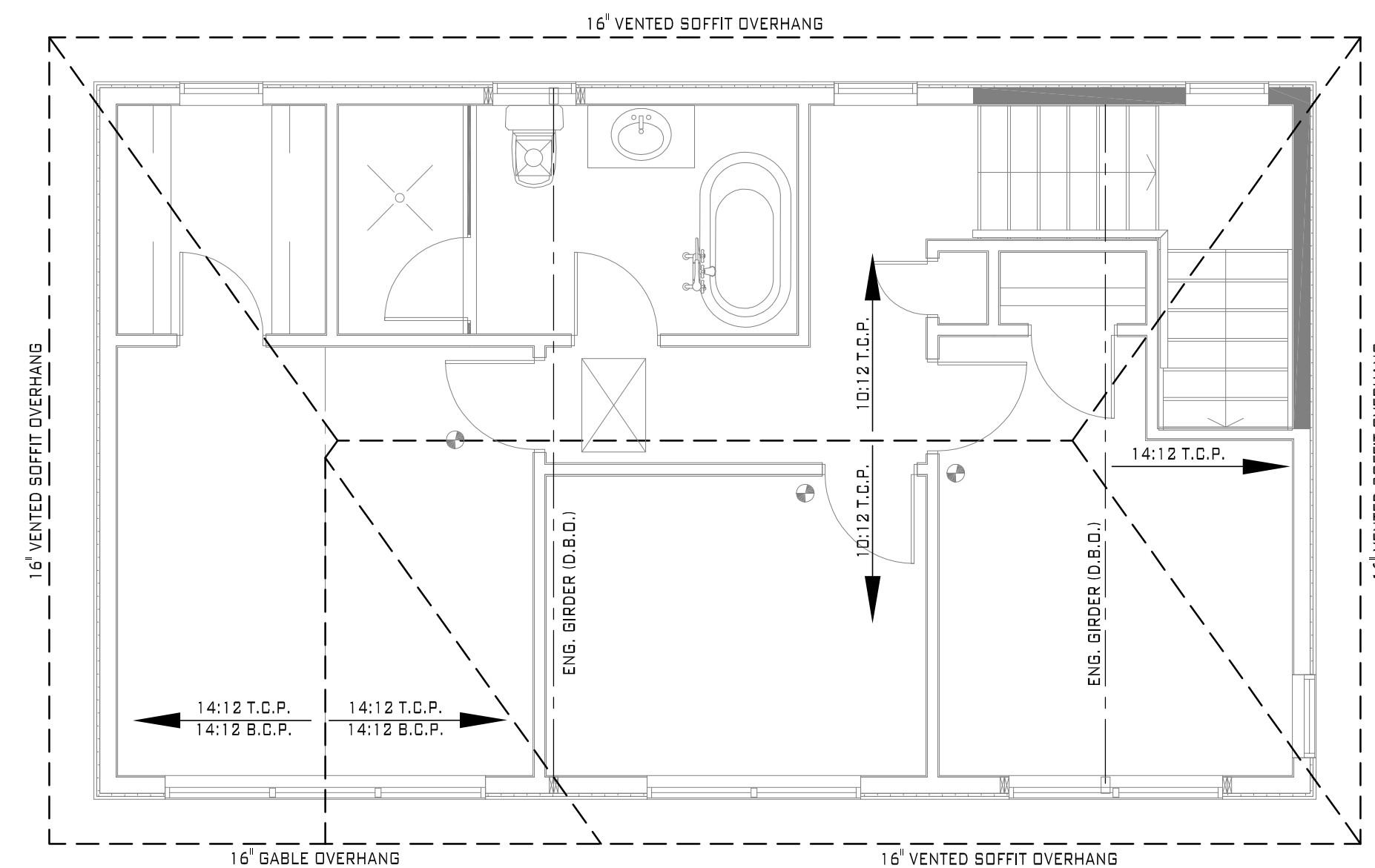
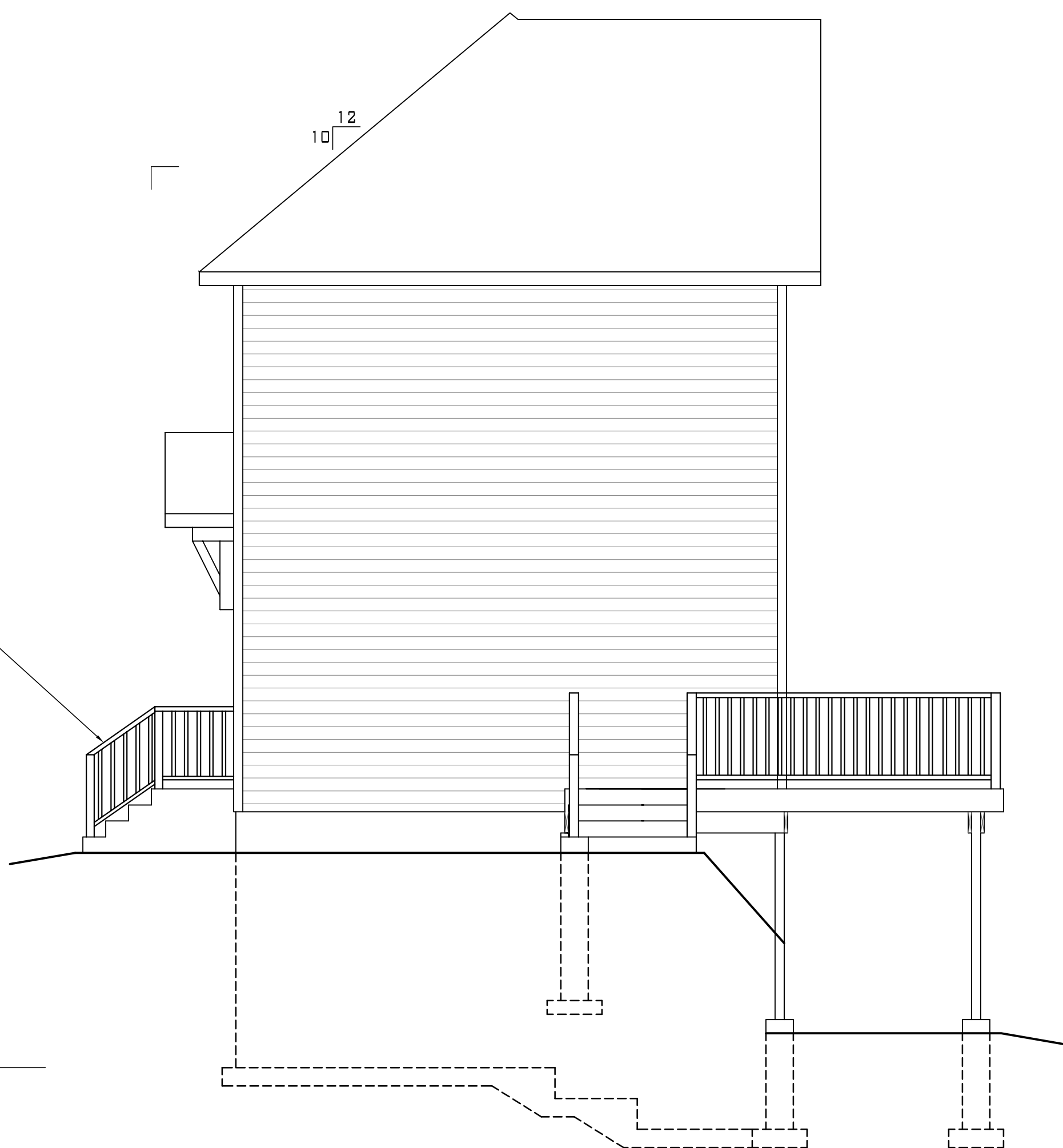
U/S FOOTING -8'-6'

RIGHT ELEVATION

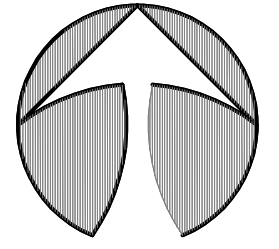
SCALE: 1/4" = 1'-0"



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



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



CONSTRUCTION NORTH

MUNICIPALITY:

**MUNICIPALITY OF
HASTINGS HIGHLANDS**
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CONSTRUCTED BY:

DESIGNED BY:

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APPROVED BY:

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DESIGNED FOR:

**DALE & TASHA
SCHEERHORN**
227 WEST DIAMOND LAKE ROAD
HIGHLAND GROVE, ONTARIO, K0L 2A0
TEL: 519-535-0658
EMAIL: DALEBHSERVICES@GMAIL.COM

PROPOSED COTTAGE

ROOF PLAN & ELEVATIONS

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

DATE: JULY 14, 2025

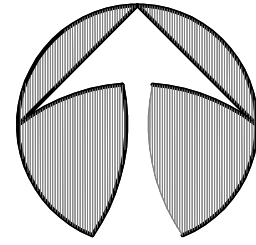
DRAWING BY: T. STREATCH

DESIGNED/CHECKED BY: M. VASANTHA

PROJECT NO: 24-286

DRAWING NO:

A-2



CONSTRUCTION NORTH

MUNICIPALITY OF
HASTINGS HIGHLANDS
33011 HWY 62N, P.O. BOX 130,
MAYNOOTH ON, K0L 2S0
PHONE: 613-338-2811

CONSTRUCTED BY:

DESIGNED BY:
girard
ENGINEERING
2478153 ONTARIO INC.
682 PEEL SREET
WOODSTOCK ON, N4S 1L3
TEL: 1-519-879-6875
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APPROVED BY:

NOTE: THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER AND ARE
NOT VALID UNLESS SEALED WITH RED INK. THESE DRAWINGS ARE NOT TO
BE REPRODUCED UNLESS AUTHORIZED BY THE ENGINEER.

DESIGNED FOR:
**DALE & TASHA
SCHEERHORN**
227 WEST DIAMOND LAKE ROAD
HIGHLAND GROVE, ONTARIO, K0L 2A0
TEL: 519-535-0658
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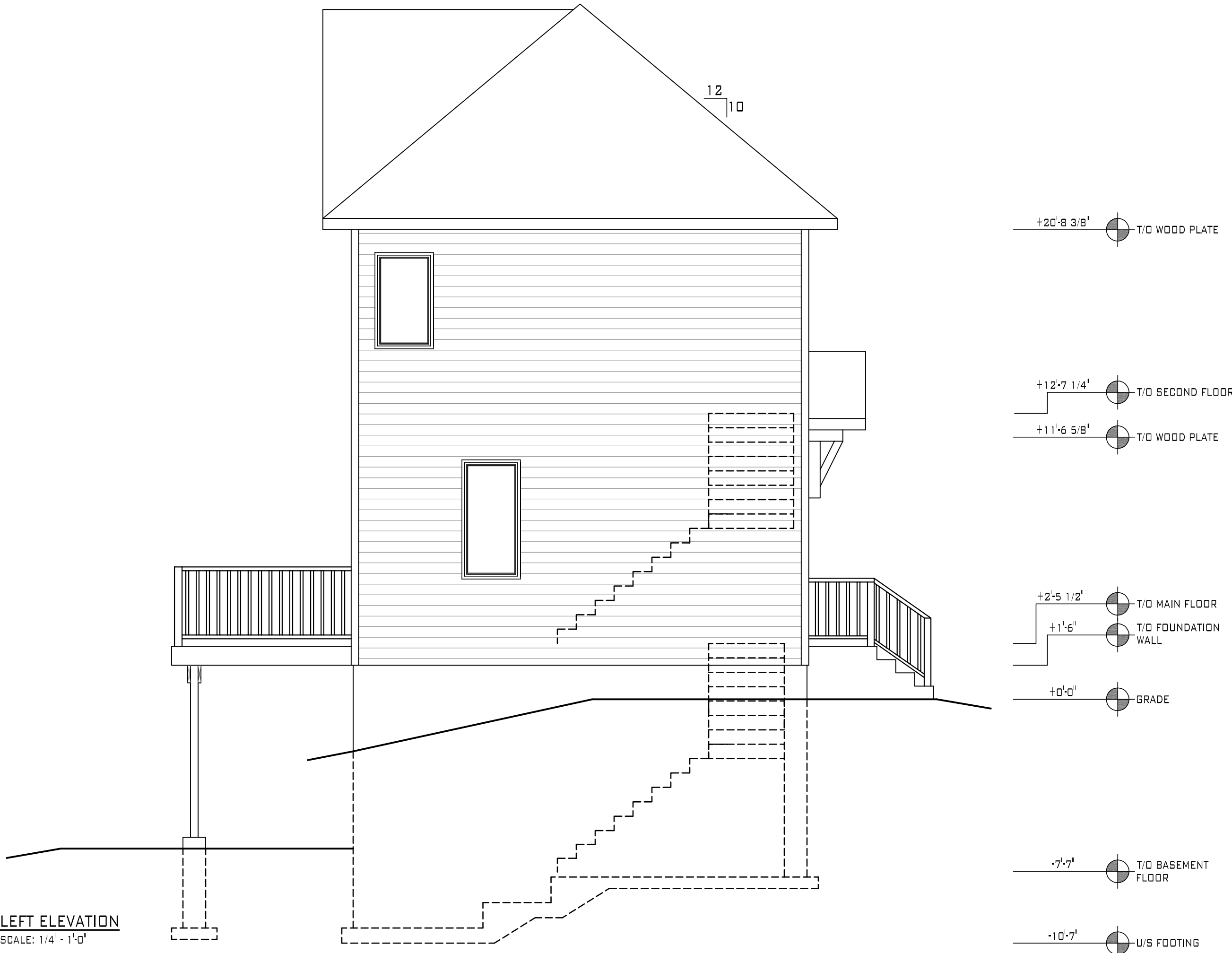
PROPOSED COTTAGE

ROOF PLAN & ELEVATIONS

SCALE: 1/4" = 1'-0"	DRAWING NO:
DATE: JULY 14, 2025	A-3
DRAWING BY: T. STREATCH	
DESIGNED/CHECKED BY: M. VASANTHA	
PROJECT NO: 24-286	



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



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



TYPICAL ROOF & CEILING CONSTRUCTION:
29 GAUGE METAL ROOF PANELS
1x4 STRAPPING @ 24" O.C. MAX.
1/2" PLYWOOD SHEATHING c/w CLIPS
ENGINEERED TRUSSES (BY OTHERS) @ 24" O.C. MAX.
R50 INSULATION w/ INSULATION BLOCK @ EACH SOFFIT
6MM POLYETHYLENE VAPOUR BARRIER
1/2" C.E. GYPSUM BOARD
PROVIDE 1/300 ATTIC VENTILATION

MUNICIPALITY:

**MUNICIPALITY OF
HASTINGS HIGHLANDS**
33011 HWY 62N, P.O. BOX 130,
MAYNORTH ON, K0L 2S0
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PROPOSED COTTAGE

SECTION & DETAILS

SCALE:	AS NOTED	DRAWING NO. A
DATE:	JULY 14, 2025	
DRAWING BY:	T. STREATCH	
DESIGNED/CHECKED BY:	M. VASANTHA	
PROJECT NO: 24-286		

A-4

DESIGN LOADS

• HIGHLAND GROVE, ONTARIO

GROUND SNOW LOAD 56.3 kPa (64.74 psf)

FASTENING DEVICES (NAILS) SHALL CONFORM TO CSA STANDARD B11-1/1974 WIRE NAILS, SPIKES, AND STAPLES

WIND LOADS 1/50 - 0.32kPa (6.68 psf)

1/10 FOR DEFLECTION - 0.25kPa (5.22 psf)

SEISMIC DATA 7.1/20 - 0.151

- WATERBOARD AND O.S.B. SHALL CONFORM TO CSA STANDARD CAN2403/437-1 MBS WATERBOARD AND STRANDBOARD
- FASTENING DEVICES (NAILS) SHALL CONFORM TO CSA STANDARD B11-1/1974 WIRE NAILS, SPIKES, AND STAPLES
- TRUSS TIE DOWNS, JOIST HANGERS, ETC. SHALL CONFORM TO ACCEPTANCE CRITERIA FOR JOIST HANGERS AND SIMILAR DEVICES
- THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS SHALL BE A MINIMUM OF 20 GAUGE GALVANIZED STEEL

OBC 2024 REFERNECES:

- GENERAL
- 1.1.7.7. RADON
- (1) IN ADDITION TO ALL OTHER REQUIREMENTS, A BUILDING IN THE FOLLOWING DESIGNATED AREAS SHALL BE DESIGNED AND CONSTRUCTED SO THAT THE ANNUAL AVERAGE CONCENTRATION OF RADON 222 DOES NOT EXCEED 200 BQ/m³ IF AIR AND THE ANNUAL AVERAGE CONCENTRATION OF THE SHORT-LIVED DAUGHTERS OF RADON 222 DOES NOT EXCEED 0.02 WORKING LEVEL INSIDE THE BUILDING FOR:
 - (a) THE CITY OF ELIOT LAKE IN THE TERRITORIAL DISTRICT OF ALBEMA,
 - (b) THE TOWNSHIP OF FARADAY IN THE COUNTY OF HASTINGS, AND
 - (c) THE GEOGRAPHIC TOWNSHIP OF HYMAN IN THE TERRITORIAL DISTRICT OF SUDBURY

- 1.1.1.9. SITE ASSEMBLED AND FACTORY-BUILT BUILDINGS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2) AND IN SENTENCES 1.2.2.1.2.(1) AND (2), A MANUFACTURED BUILDING IS DEEMED TO COMPLY WITH THIS CODE IF IT IS DESIGNED AND CONSTRUCTED IN COMPLIANCE WITH:
 - (a) CSA 2240.2-1, "STRUCTURAL REQUIREMENTS FOR MANUFACTURED HOMES" IF THE BUILDING IS CONSTRUCTED IN SECTION NOT WIDER THAN 4.58 M,
 - (b) CSA 2477, "PROCEDURE FOR CERTIFICATION OF PREFABRICATED BUILDINGS, MODULES, AND PANELS."

- 9.3.1.1. GENERAL
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2) AND ARTICLES 9.3.1.6. AND 9.3.1.7., UNREINFORCED AND NORMALLY REINFORCED CONCRETE SHALL BE DESIGNED, MIXED, PLACED, CURED AND TESTED IN ACCORDANCE WITH THE REQUIREMENT FOR 'B' CLASS CONCRETE STATED IN SECTION 9 OF CSA 223.1, "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 SHAIR OR EXPANDED CLAY CONFORMING TO CSA A23.1, "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION," AND
 - (b) BE CLEAN, WELL-GRADED AND FREE OF INJURIOUS AMOUNT OF ORGANIC AND OTHER DELETERIOUS MATERIAL.

- 9.3.1.6. COMPRESSIVE STRENGTH
 - (1) EXCEPT AS PROVIDED ELSEWHERE IS 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 FLOOR OTHER THAN THOSE FOR GARAGE AND CARPORTS, AND
 - (c) 15 MPa FOR ALL OTHER APPLICATIONS
 - (2) SITE-BATCH CONCRETE USED FOR GARAGE FLOORS, CARPORT FLOORS AND EXTERIOR FLATWORK SHALL HAVE AIR ENTRAINMENT OF 5-8%.

- 9.3.1.7. CONCRETE MIXES
 - (1) FOR PRE-MIXED CONCRETE AND FOR THE SITE-BATCHED CONCRETE MIXES DESCRIBED IN TABLE 9.3.1.7., THE MAXIMUM RATIO OF WATER TO CEMENTING MATERIALS MEASURED BY WEIGHT SHALL NOT EXCEED:
 - (a) 0.45 FOR GARAGE FLOORS, CARPORT FLOORS AND ALL EXTERIOR FLATWORK,
 - (b) 0.65 FOR INTERIOR FLOORS OTHER THAN THOSE FOR GARAGE AND CARPORTS, AND
 - (c) 0.70 FOR ALL OTHER APPLICATIONS
 - (2) THE SIZE OF AGGREGATE IN UNREINFORCED SITE-BATCHED 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

CONCRETE AND REINFORCED CONCRETE NOTES:

- ALL CONCRETE SHALL CONFORM TO CAN/CSA223.1, "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION" WITH A MAXIMUM AGGREGATE SIZE OF 24 (1 3/4) INCH, TYPE 10 NORMAL PORTLAND CEMENT (UNLESS OTHERWISE NOTED), AND A COMPRESSIVE STRENGTH AT 28 DAYS.
- SUPPLY AND PLACE CONCRETE AS FOLLOWS: FOOTINGS - 25 MPA, W/C RATIO OF 0.50, AIR CONTENT 6% ± 1% FOUNDATION WALLS - 25 MPA, MAX. W/C RATIO OF 0.50, AIR CONTENT 6% ± 1% PIERS - 25 MPA, W/C RATIO OF 0.45, AIR CONTENT 6% ± 1% SLABS ON GRADE - 25 MPA, MAX. W/C RATIO OF 0.50, NO AIR CONTENT REQUIRED PIT WALLS & FLOORS (SUBJECT TO ACID ATTACK):
 - 32 MPa, TYPE 50 CEMENT (UNLESS OTHERWISE NOTED),
 - MAX. W/C RATIO OF 0.40, AIR CONTENT 6% ± 1% SIDEWALKS, EXPOSED CURBS, AND OTHER CONCRETE
 - 32 MPa, MAX. W/C RATIO OF 0.45, AIR CONTENT 6% ± 1%
- ALL REINFORCING SHALL CONFORM TO CSA G30.3, G30.5 & G30.18 (LATEST EDITION) WITH A YIELD STRENGTH OF 420 MPa FOR DEFORMED BARS OR 360 MPa FOR WELDED WIRE MESH.
- MINIMUM CORNER REINFORCING SHALL BE 24"x24" (600mmx600mm) L-BARS.
- MINIMUM COVER ON REINFORCING FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER SHALL BE 2 (50mm) FOR 20M OR LARGER BARS, 1 1/2 (38mm) FOR 10M OR SMALLER BARS, 2 (50mm) FOR REINFORCING IN FOOTINGS AND UNFORMED CONCRETE AGAINST EARTH, 1 (25mm) FOR SLABS AND WALLS NOT EXPOSED TO EARTH OR WEATHER, 1 1/2 (38mm) FOR REINFORCING IN BEAMS, AND 2 (50mm) FOR MAIN PIER STEEL.
- CONDUITS OR PIPES IN SLABS SHALL NOT EXCEED 1/3 OF THE SLAB THICKNESS IN DIAMETER AND SHALL HAVE A MINIMUM COVER OF 1" (25mm).
- CONTROL JOINTS SHALL BE INSTALLED AS SHOWN OR AS NOTED ON DRAWINGS WITH A MAXIMUM SPACING OF 30'-0" (9.0m) IN WALLS. MAXIMUM SLAB FLOOR LENGTH OF 100'-0" (30.0m). ALL SAW CUTS SHALL BE A MINIMUM OF 1/3 OF THE SLAB DEPTH AND SHALL BE CUT WITHIN 24 HOURS OF THE POUR.

STRUCTURAL STEEL NOTES:

- STEEL SHALL CONFORM TO CAN/CSA-S16-14 "DESIGN OF STEEL STRUCTURES"
 - THE GENERAL REQUIREMENTS FOR STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA G40.21/3.1 & G40.21-1.3 F100WALLS - 25 MPA, STRUCTURAL STEEL QUALITY GRADES OF MATERIAL (UNLESS NOTED OTHERWISE):
 - HOLLOW STRUCTURAL STEEL SECTIONS - 350W, CLASS 'F'
 - STRUCTURAL PIPE - ASTM A53 (120MPa)
 - OTHER STRUCTURAL STEEL & MISCELLANEOUS MATERIAL - 350W
 - BOLTS, NUTS & WASHERS: 1/2" TO STEEL - ASTM A325
 - ANCHOR BOLTS - ASTM A307
 - WELDS - E49XX (450MPa)
 - WELDING SHALL BE PERFORMED BY PERSONS CERTIFIED BY THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH MINIMUM THE LATEST CSA STANDARD FOR WELDING - CLAUSE 24.3 OF S16-01.
 - SHOP DRAWINGS FOR ALL FABRICATED STEEL MEMBERS SHALL BE STAMPED BY A LICENSED PROFESSIONAL ENGINEER (PROVINCE OF ONTARIO) AND SUBMITTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
- ### WOOD NOTES:
- STRUCTURAL WOOD MEMBERS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH CAN/CSA O86-01 "ENGINEERING DESIGN IN WOOD" AND THE WOOD DESIGN MANUAL (CANADIAN WOOD COUNCIL) LATEST EDITIONS.
 - WOOD TRUSSES SHALL BE DESIGNED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER (PROVINCE OF ONTARIO). THE CONTRACTOR SHALL SUBMIT TRUSS SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
 - WOOD STUDS, JOISTS, NAILERS, BLOCKING, BUILT-UP BEAMS, AND COLUMNS SHALL BE S.P.F. NO. 2 (CONSTRUCTION GRADE) OR BETTER - CONFORMING TO CAN/CSA-041-19 "SOFT WOOD LUMBER", GRADING SHALL CONFORM TO THE NATIONAL LUMBER ASSOCIATION'S "STANDARD GRADING RULES FOR SOFT WOOD LUMBER", WOOD FRAME CONSTRUCTION SHALL CONFORM TO THE CANADIAN STANDARD 2308 - SECTION 2.2.3.
 - PLYWOOD SHEATHINGS SHALL CONFORM TO CSA STANDARD 0121-M1978 "DOUGLAS FIR PLYWOOD" AND 0151-M1978 "CANADIAN SOFT WOOD PLYWOOD".

- 9.7. WINDOWS, DOORS AND SKYLIGHTS
 - 9.7.2.2. (9) WINDOWS AND SKYLIGHTS INSTALLED TO PROVIDED STANDARD SPECIFICATION FOR WINDOWS, DOORS, AND SKYLIGHTS (HARMONIZED STANDARDS)

- 9.7.2.3. (1) EXCEPT AS REQUIRED IN ARTICLE 9.9.10.1., AND SENTENCE (2) THE MINIMUM HEIGHT OVER RAMPS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL BE NOT LESS THAN 6'-0".

- 9.8.4.5. RAMP SLOPE
 - (1) THE SLOPE OF RAMPS SHALL BE NOTE MORE THAN:
 - (a) 1 IN 10 FOR EXTERIOR RAMPS,
 - (b) 1 IN 10 FOR INTERIOR RAMPS SERVING RESIDENTIAL OCCUPANCIES,
 - (c) 1 IN 6 FOR INDUSTRIAL OCCUPANCIES, AND
 - (d) 1 IN 8 FOR ALL OTHER OCCUPANCIES

- 9.8.6. -LANDINGS
 - 9.8.6.2. REQUIRED LANDINGS
 - (1) EXCEPT AS PROVIDED IN SENTENCES (2) TO (4) AND SENTENCE 9.9.6.10.(2), A LANDING SHALL BE PROVIDED:
 - (a) FOR EACH FLIGHT OF INTERIOR AND EXTERIOR STAIRS, INCLUDING STAIRS IN GARAGES,
 - (b) AT THE TOP AND BOTTOM OF EVERY RAMP WITH A SLOPE GREATER THAN 1 IN 50, AND
 - (c) WHERE A DOORWAY OPENS ONTO A STAIR OR RAMP

- 9.8.6.3. DIMENSIONS OF LANDINGS
 - (1) EXCEPT AS PROVIDED IN SENTENCES (2) TO (7), LANDINGS SHALL BE AT LEAST AS WIDE AS THE NAME OF THE MANUFACTURER, (2) THE STANDARD TO WHICH THEY WERE PRODUCED, AND (3) THEY ARE OF AN EXTERIOR TYPE.

- 9.7.5.2. RESISTANCE TO FORCED ENTRY FOR DOOR

- 9.7.5.3. RESISTANCE TO FORCED ENTRY FOR WINDOWS

- 9.9.10. EGRESS FROM BEDROOMS

- 9.9.10.1. EGRESS WINDOWS OR DOORS FOR BEDROOMS
 - (1) EXCEPT WHERE A DOOR ON THE SAME FLOOR LEVEL AS THE BEDROOM PROVIDES DIRECT ACCESS TO THE EXTERIOR, EVERY FLOOR LEVEL CONTAINING A BEDROOM IN A SUITE SHALL BE PROVIDED WITH AT LEAST ONE OUTSIDE WINDOW THAT:
 - (a) IS OBTAINABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS,
 - (b) PROVIDES AN UNOBSTRUCTED OPEN PORTION HAVING A MINIMUM AREA OF 3.8 SQ. FT. WITH NO DIMENSION LESS THAN 15", AND
 - (c) MAINTAINS THE REQUIRED OPENING DESCRIBED IN CLAUSE (B) WITHOUT THE NEED FOR ADDITIONAL SUPPORT,
 - (2) EXCEPT FOR RAMPED WINDOWS, AS REQUIRED IN SENTENCE (1) SHALL HAVE A MAXIMUM SILL HEIGHT OF 3'-0" ABOVE THE FLOOR
 - (3) WHERE A WINDOW REQUIRED IN SENTENCE (1) OPENS INTO A SINGLE DWELLING UNIT, ITS ELEVATION IS MORE THAN 2'-0" SHALL BE PROVIDED IN FRONT OF THE WINDOW.

- 9.14.6. SURFACE DRAINAGE
 - (1) EVERY WINDOW FRAME SHALL BE DRAINED TO THE FOOTING LEVEL OR OTHER SUITABLE LOCATION.

9.8. STAIRS, RAMPS, HANDRAILS & GUARDS

- 9.8.2.1. STAIR WIDTH
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2) AND ARTICLE 9.8.4.7, REQUIRED EXIST STAIRS AND PUBLIC STAIRS SERVING BUILDING OF RESIDENTIAL OCCUPANCY SHALL HAVE A WIDTH OF NOT LESS THAN 2'-1 1/2'.

- (2) EXIT STAIRS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL HAVE A WIDTH OF NOT LESS THAN 2'-0".

- 9.8.2.2. HEIGHT OVER STAIRS
 - (2) EXCEPT AS PROVIDED IN ARTICLE 9.8.4.7, THE CLEAR HEIGHT OVER STAIRS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL NOT BE LESS THAN 6'-0".
 - (4) THE CLEAR HEIGHT OVER STAIRS THAT ARE LOCATED UNDER BEAMS AND DUTING IN SECONDARY SUITE SHALL NOT BE LESS THAN 6'-1".

- 9.8.3. STAIR CONFIGURATIONS
 - 9.8.3.3. MAXIMUM HEIGHT OF STAIRS
 - (1) THE VERTICAL HEIGHT OF ANY FLIGHT OF STAIRS SHALL NOT EXCEED 12'-1".

- 9.8.4. STEP DIMENSIONS
 - 9.8.4.1. DIMENSIONS FOR RISERS
 - (1) EXCEPT AS PROVIDED IN ARTICLE 9.8.4.7., THE RISE, WHICH IS MEASURED AS THE VERTICAL NO-TING-DOWNS DISTANCE, SHALL CONFORM TO TABLE 9.8.4.1. (2) SHALL BE IDENTIFIED BY A GRADE STAMP TO INDICATE ITS RATES AS DETERMINED BY THE NLGA, "STANDARD GRADING RULES FOR CANADIAN LUMBER."

- 9.8.4.2. DIMENSIONS OF TAPERED TREADS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2) AND ARTICLES 9.8.4.6. AND 9.8.4.7., TAPERED TREADS SHALL HAVE A RUN THAT:
 - (a) IS NOT LESS THAN 6" AT THE NARROW END OF THE TREAD, AND
 - (b) IS NOT LESS THAN 15" AT THE WIDER END OF THE TREAD, AS STATED IN TABLE 9.8.4.1. WHEN MEASURED AT A POINT 1/2" FROM THE CENTER LINE OF THE HANDRAIL AT THE NARROW END OF THE TREAD.

- 9.8.4.4. UNIFORMITY AND TOLERANCES FOR RISERS, RUNS AND TREADS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), RISERS SHALL BE OF UNIFORM HEIGHT IN ANY ONE FLIGHT WITH A MAXIMUM TOLERANCE OF 1/8" (3mm) AND 1/4" (6mm) BETWEEN RISERS.
 - (2) RISERS THAT ARE NOT MORE THAN 4" MEASURED EITHER VERTICALLY OR HORIZONTALLY.
 - (3) ADJACENT WINDERS TURN THROUGH THE SAME ANGLE.
 - (4) EXCEPT AS PROVIDED IN SENTENCE (5), OPENABLE WINDOWS IN BUILDINGS OF RESIDENTIAL OCCUPANCY SHALL BE PROTECTED BY STAIRS.

- 9.8.4.6. WINDERS
 - (1) WINDERS IN WHICH UNITS ARE PERMITTED TO CONTAIN WINDERS THAT CONVERGE TO A CENTER POINT PROVIDED:
 - (a) THE WINDERS TURN THROUGH AN ANGLE OF NOT LESS THAN 90°
 - (b) INDIVIDUAL TREADS TURN THROUGH AN ANGLE OF NOT LESS THAN 90° OR NOT MORE THAN 45°
 - (c) ADJACENT WINDERS TURN THROUGH THE SAME ANGLE.
 - (2) WHERE MORE THAN ONE SET OF WINDERS DESCRIBED IN SENTENCE (1) IS PROVIDED IN A SINGLE STAIRWAY BETWEEN ADJACENT FLOOR LEVELS, SUCH WINDERS SHALL BE SEPARATED IN PLAN BY AT LEAST 3'-1".

- 9.8.4.7. SPIRAL STAIRS
 - (1) SPIRAL STAIRS SHALL HAVE:
 - (a) HANDRAILS ON BOTH SIDES, THE OUTER HANDRAIL BEING NOT LESS THAN MIN. 3'-6" HIGH,
 - (b) A CLEAR WIDTH NOT LESS THAN 26" BETWEEN HANDRAILS, OR
 - (c) RISERS THAT ARE NOT MORE THAN 1 1/2" HIGH.

- 9.8.4.8. STAIRS THAT ARE NOT MORE THAN 1 1/2" HIGH

- 9.8.4.9. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.1. OPEN RISERS
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 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.2. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.3. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.4. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.5. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.6. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.7. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.8. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.9. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.10. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.11. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.3. HEIGHT OVER RAMPS
 - (1) EXCEPT AS PERMITTED BY SENTENCE (2), THE CLEAR HEIGHT OVER RAMPS SHALL BE NOT LESS THAN 6'-0".
 - (2) THE MINIMUM HEIGHT OVER RAMPS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL BE NOT LESS THAN 6'-0".

- 9.8.4.5. RAMP SLOPE
 - (1) THE SLOPE OF RAMPS SHALL BE NOTE MORE THAN:
 - (a) 1 IN 10 FOR EXTERIOR RAMPS,
 - (b) 1 IN 10 FOR INTERIOR RAMPS SERVING RESIDENTIAL OCCUPANCIES,
 - (c) 1 IN 6 FOR INDUSTRIAL OCCUPANCIES, AND
 - (d) 1 IN 8 FOR ALL OTHER OCCUPANCIES

- 9.8.6. -LANDINGS
 - 9.8.6.2. REQUIRED LANDINGS
 - (1) EXCEPT AS PROVIDED IN SENTENCES (2) TO (4) AND SENTENCE 9.9.6.10.(2), A LANDING SHALL BE PROVIDED:
 - (a) FOR EACH FLIGHT OF INTERIOR AND EXTERIOR STAIRS, INCLUDING STAIRS IN GARAGES,
 - (b) AT THE TOP AND BOTTOM OF EVERY RAMP WITH A SLOPE GREATER THAN 1 IN 50, AND
 - (c) WHERE A DOORWAY OPENS ONTO A STAIR OR RAMP

- 9.8.6.3. DIMENSIONS OF LANDINGS
 - (1) EXCEPT AS PROVIDED IN SENTENCES (2) TO (7), LANDINGS SHALL BE AT LEAST AS WIDE AS THE NAME OF THE MANUFACTURER, (2) THE STANDARD TO WHICH THEY WERE PRODUCED, AND (3) THEY ARE OF AN EXTERIOR TYPE.

- 9.7.5.2. RESISTANCE TO FORCED ENTRY FOR DOOR

- 9.7.5.3. RESISTANCE TO FORCED ENTRY FOR WINDOWS

- 9.9.10. EGRESS FROM BEDROOMS

- 9.9.10.1. EGRESS WINDOWS OR DOORS FOR BEDROOMS
 - (1) EXCEPT WHERE A DOOR ON THE SAME FLOOR LEVEL AS THE BEDROOM PROVIDES DIRECT ACCESS TO THE EXTERIOR, EVERY FLOOR LEVEL CONTAINING A BEDROOM IN A SUITE SHALL BE PROVIDED WITH AT LEAST ONE OUTSIDE WINDOW THAT:
 - (a) IS OBTAINABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS,
 - (b) PROVIDES AN UNOBSTRUCTED OPEN PORTION HAVING A MINIMUM AREA OF 3.8 SQ. FT. WITH NO DIMENSION LESS THAN 15", AND
 - (c) MAINTAINS THE REQUIRED OPENING DESCRIBED IN CLAUSE (B) WITHOUT THE NEED FOR ADDITIONAL SUPPORT,
 - (2) EXCEPT FOR RAMPED WINDOWS, AS REQUIRED IN SENTENCE (1) SHALL HAVE A MAXIMUM SILL HEIGHT OF 3'-0" ABOVE THE FLOOR
 - (3) WHERE A WINDOW REQUIRED IN SENTENCE (1) OPENS INTO A SINGLE DWELLING UNIT, ITS ELEVATION IS MORE THAN 2'-0" SHALL BE PROVIDED IN FRONT OF THE WINDOW.

- 9.14.6. SURFACE DRAINAGE
 - (1) EVERY WINDOW FRAME SHALL BE DRAINED TO THE FOOTING LEVEL OR OTHER SUITABLE LOCATION.

9.8. STAIRS, RAMPS, HANDRAILS & GUARDS

- 9.8.2.1. STAIR WIDTH
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2) AND ARTICLE 9.8.4.7, REQUIRED EXIST STAIRS AND PUBLIC STAIRS SERVING BUILDING OF RESIDENTIAL OCCUPANCY SHALL HAVE A WIDTH OF NOT LESS THAN 2'-1 1/2'.

- (2) EXIT STAIRS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL HAVE A WIDTH OF NOT LESS THAN 2'-0".

- 9.8.2.2. HEIGHT OVER STAIRS
 - (2) EXCEPT AS PROVIDED IN ARTICLE 9.8.4.7, THE CLEAR HEIGHT OVER STAIRS SERVING A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE INCLUDING THEIR COMMON SPACES SHALL NOT BE LESS THAN 6'-0".
 - (4) THE CLEAR HEIGHT OVER STAIRS THAT ARE LOCATED UNDER BEAMS AND DUTING IN SECONDARY SUITE SHALL NOT BE LESS THAN 6'-1".

- 9.8.3. STAIR CONFIGURATIONS
 - 9.8.3.3. MAXIMUM HEIGHT OF STAIRS
 - (1) THE VERTICAL HEIGHT OF ANY FLIGHT OF STAIRS SHALL NOT EXCEED 12'-1".

- 9.8.4. STEP DIMENSIONS
 - 9.8.4.1. DIMENSIONS FOR RISERS
 - (1) EXCEPT AS PROVIDED IN ARTICLE 9.8.4.7., THE RISE, WHICH IS MEASURED AS THE VERTICAL NO-TING-DOWNS DISTANCE, SHALL CONFORM TO TABLE 9.8.4.1. (2) SHALL BE IDENTIFIED BY A GRADE STAMP TO INDICATE ITS RATES AS DETERMINED BY THE NLGA, "STANDARD GRADING RULES FOR CANADIAN LUMBER."

- 9.8.4.2. DIMENSIONS OF TAPERED TREADS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2) AND ARTICLES 9.8.4.6. AND 9.8.4.7., TAPERED TREADS SHALL HAVE A RUN THAT:
 - (a) IS NOT LESS THAN 6" AT THE NARROW END OF THE TREAD, AND
 - (b) IS NOT LESS THAN 15" AT THE WIDER END OF THE TREAD, AS STATED IN TABLE 9.8.4.1. WHEN MEASURED AT A POINT 1/2" FROM THE CENTER LINE OF THE HANDRAIL AT THE NARROW END OF THE TREAD.

- 9.8.4.4. UNIFORMITY AND TOLERANCES FOR RISERS, RUNS AND TREADS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), RISERS SHALL BE OF UNIFORM HEIGHT IN ANY ONE FLIGHT WITH A MAXIMUM TOLERANCE OF 1/8" (3mm) AND 1/4" (6mm) BETWEEN RISERS.
 - (2) RISERS THAT ARE NOT MORE THAN 4" MEASURED EITHER VERTICALLY OR HORIZONTALLY.
 - (3) ADJACENT WINDERS TURN THROUGH THE SAME ANGLE.
 - (4) EXCEPT AS PROVIDED IN SENTENCE (5), OPENABLE WINDOWS IN BUILDINGS OF RESIDENTIAL OCCUPANCY SHALL BE PROTECTED BY STAIRS.

- 9.8.4.6. WINDERS
 - (1) WINDERS IN WHICH UNITS ARE PERMITTED TO CONTAIN WINDERS THAT CONVERGE TO A CENTER POINT PROVIDED:
 - (a) THE WINDERS TURN THROUGH AN ANGLE OF NOT LESS THAN 90°
 - (b) INDIVIDUAL TREADS TURN THROUGH AN ANGLE OF NOT LESS THAN 90° OR NOT MORE THAN 45°
 - (c) ADJACENT WINDERS TURN THROUGH THE SAME ANGLE.
 - (2) WHERE MORE THAN ONE SET OF WINDERS DESCRIBED IN SENTENCE (1) IS PROVIDED IN A SINGLE STAIRWAY BETWEEN ADJACENT FLOOR LEVELS, SUCH WINDERS SHALL BE SEPARATED IN PLAN BY AT LEAST 3'-1".

- 9.8.4.7. SPIRAL STAIRS
 - (1) SPIRAL STAIRS SHALL HAVE:
 - (a) HANDRAILS ON BOTH SIDES, THE OUTER HANDRAIL BEING NOT LESS THAN MIN. 3'-6" HIGH,
 - (b) A CLEAR WIDTH NOT LESS THAN 26" BETWEEN HANDRAILS, OR
 - (c) RISERS THAT ARE NOT MORE THAN 1 1/2" HIGH.

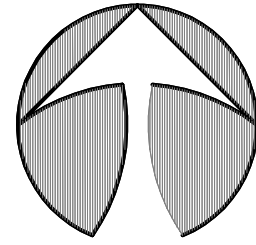
- 9.8.4.8. STAIRS THAT ARE NOT MORE THAN 1 1/2" HIGH

- 9.8.4.9. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
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 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.1. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
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 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.

- 9.8.5.2. OPEN RISERS
 - (1) EXCEPT AS PROVIDED IN SENTENCE (2), STAIRS SHALL HAVE NO OPEN RISERS.
 - (2) OPEN RISERS ARE PERMITTED IN:
 - (a) INTERIOR AND EXTERIOR STAIRS THAT SERVE A SINGLE DWELLING UNIT OR A HOUSE WITH A SECONDARY SUITE,
 - (b) STAIRS THAT ARE PRINCIPALLY USED FOR MAINTENANCE,
 - (c) STAIRS THAT SERVE SERVICE ROOMS, AND
 - (d) STAIRS THAT SERVE INDUSTRIAL OCCUPANCIES OTHER THAN STORAGE GARAGES.



CONSTRUCTION NORTH

MUNICIPALITY:

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HASTINGS HIGHLANDS**

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DESIGNED BY:

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EMAIL: DALEBHSERVICES@GMAIL.COM

PROPOSED COTTAGE

**GENERAL NOTES
& DETAILS**

SCALE:

1/4" = 1'-0"

DATE:

JULY 14, 2025

DRAWING BY:

T. STREATCH

DESIGNED/CHECKED BY: M. VASANTHA

PROJECT NO:

24-286

DRAWING NO:

A-7

9.33.6.1.3. RETURN-AIR SYSTEM
(7.1) RETURN-AIR FROM A DWELLING UNIT SHALL NOT BE REDIRCULATED TO ANY OTHER DWELLING UNIT.

9.39. PARK MODEL TRAILERS

9.39.2.1. GENERAL

(1) EXCEPT AS PROVIDED IN SUBSECTION 9.39.3., A MANUFACTURED BUILDING USED OR INTENDED TO BE USED AS A SEASONAL RECREATION BUILDING OF RECREATION BUILDING OF RESIDENTIAL OCCUPANCY IS DEEMED TO COMPLY WITH THE CODE IF IT IS DESIGNED AND CONSTRUCTION IN CONFORMANCE WITH CAN/CSA-Z241, "PARK MODEL TRAILERS".

9.38.3.3. FOUNDATIONS AND ANCHORAGE

(1) BUILDINGS DESCRIBED IN ARTICLE 9.39.1.1. SHALL BE SUPPORTED AND ANCHORED IN CONFORMANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS OR AS OTHERWISE NOTED.

9.40. REINFORCED CONCRETE SLABS

(3) SLAB CONSTRUCTION TO BE INSTALLED AS PER CODE UNLESS OTHERWISE NOTED.

9.40.1.4. SLAB CONSTRUCTION

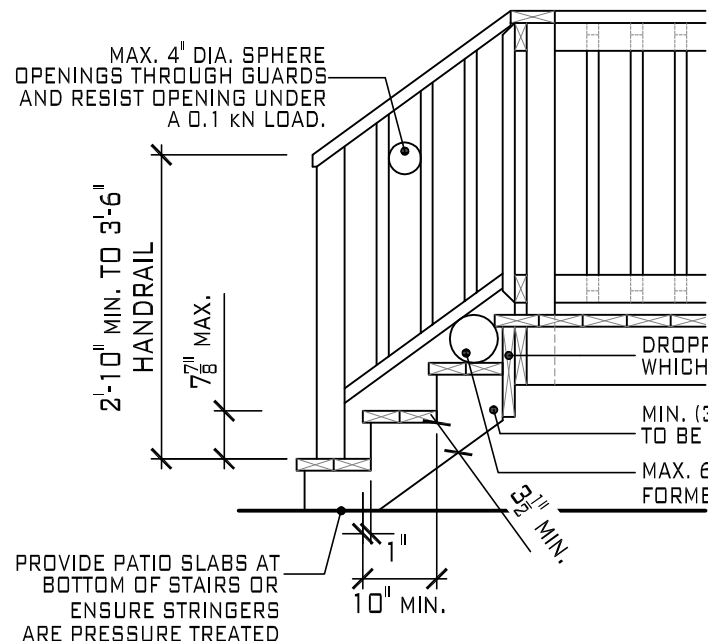
(1) CONCRETE SHALL BE CAST AGAINST FORMWORK IN ACCORDANCE WITH CSA A23.1, "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION".

(2) THE SLAB SHALL NOT BE LESS THAN 5" THICK

(3) THE SLAB SHALL BE REINFORCED WITH 10M BARS SPACED NOT MORE THAN 8" O.C., IN EACH DIRECTION, WITH 30MM CLEAR COVER FROM THE BOTTOM OF THE SLAB TO THE FIRST LAYER OF BARS, AND THE SECOND LAYER OF BARS LAID DIRECTLY ON TOP OF THE LOWER LAYER IN THE OPPOSITE DIRECTION

(4) THE SLAB SHALL BEAR NOT LESS THAN 3" ON THE SUPPORTING FOUNDATION WALLS AND BE ANCHORED TO THE WALLS WITH 24"x24" 10M BENT DOWELS SPACED NOT MORE THAN 24" O.C.

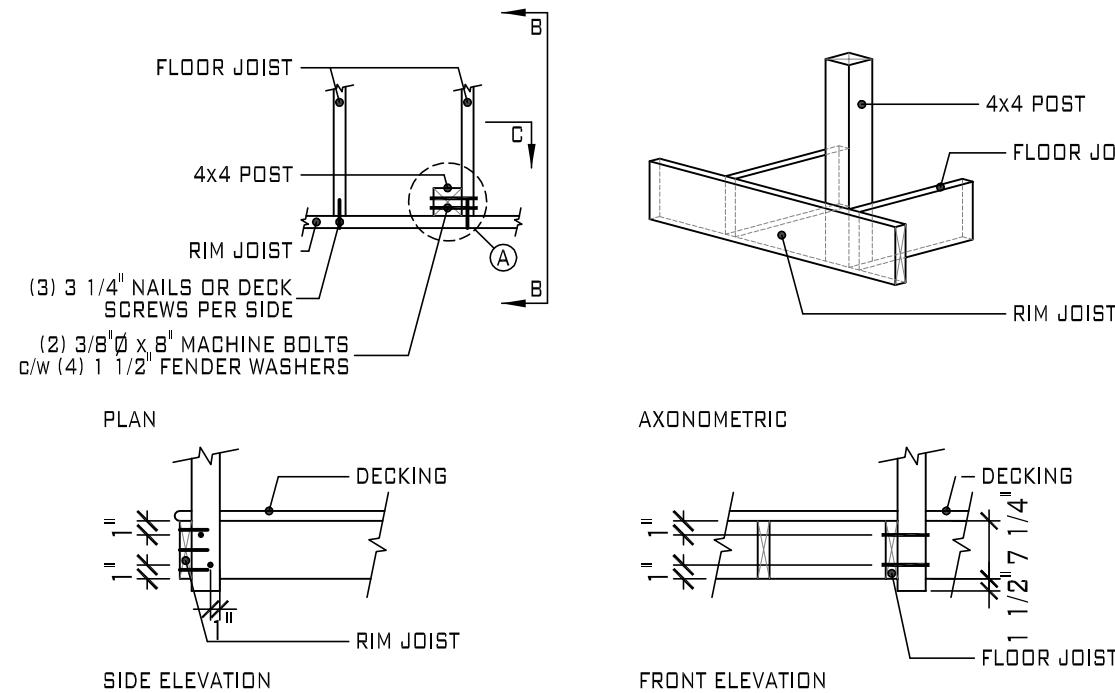
(5) EXPOSED SLABS SHALL BE SLOPED TO EFFECTIVELY SHEED WATER AWAY FROM THE EXTERIOR WALL.



DECK STAIR DETAIL

SCALE: N.T.S.

NOTES:
1. PROVIDE HANDRAIL ON STAIRS IF MORE THAN THREE RISERS - 2'-10" MIN. OR 3'-6" MAX. HIGH

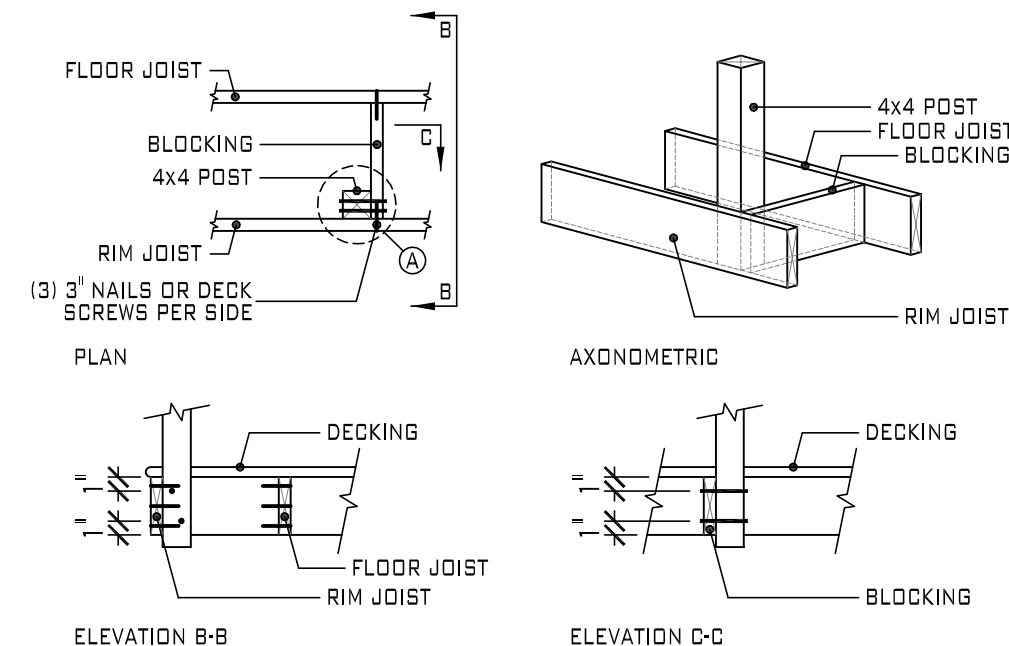


POST CONNECTION DETAIL (EB-4)

EXTERIOR CONNECTION: POST BOLTED TO FLOOR JOISTS

SCALE: N.T.S.

NOTES:
1. DECKING IS OMITTED FROM THE PLAN VIEW AND THE AXONOMETRIC VIEW FOR CLARITY
2. 1 1/2\"/>

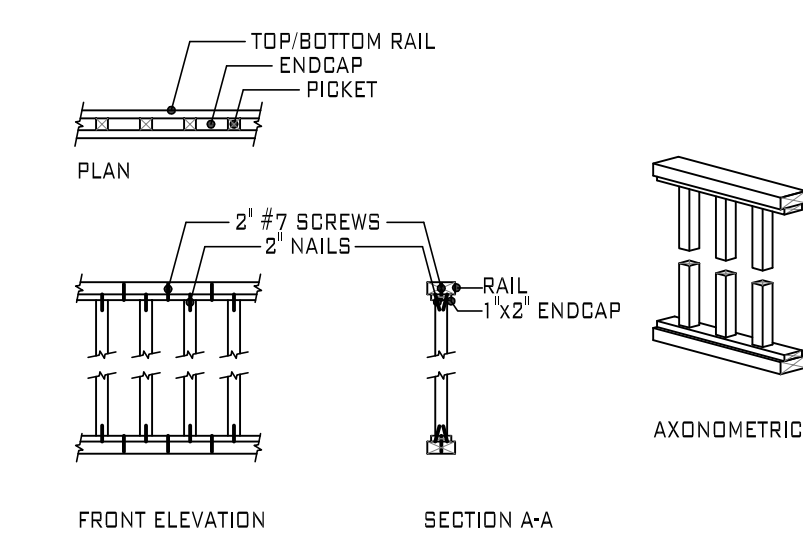


POST CONNECTION DETAIL (EB-6)

EXTERIOR CONNECTION: POST FASTENED TO FLOOR, GUARD PARALLEL TO FLOOR JOISTS

SCALE: N.T.S.

NOTES:
1. USE ANY OF THE CONNECTION DETAILS SHOWN ON DETAILS EB-1 TO EB-5 AT LOCATION 'A'. CONNECTION DETAIL EB-4 IS SHOWN IN THIS DETAIL AS AN EXAMPLE
2. MAXIMUM SPACING BETWEEN POSTS IS DETERMINED FROM CONNECTION DETAIL USED AT LOCATION 'A'
3. DECKING IS OMITTED FROM THE PLAN VIEW AND THE AXONOMETRIC VIEW FOR CLARITY
4. BLOCKING SHALL BE NOT LESS THAN 2x8
5. REFER TO D.B.C. SECTION SB-7 GUARD DETAILS



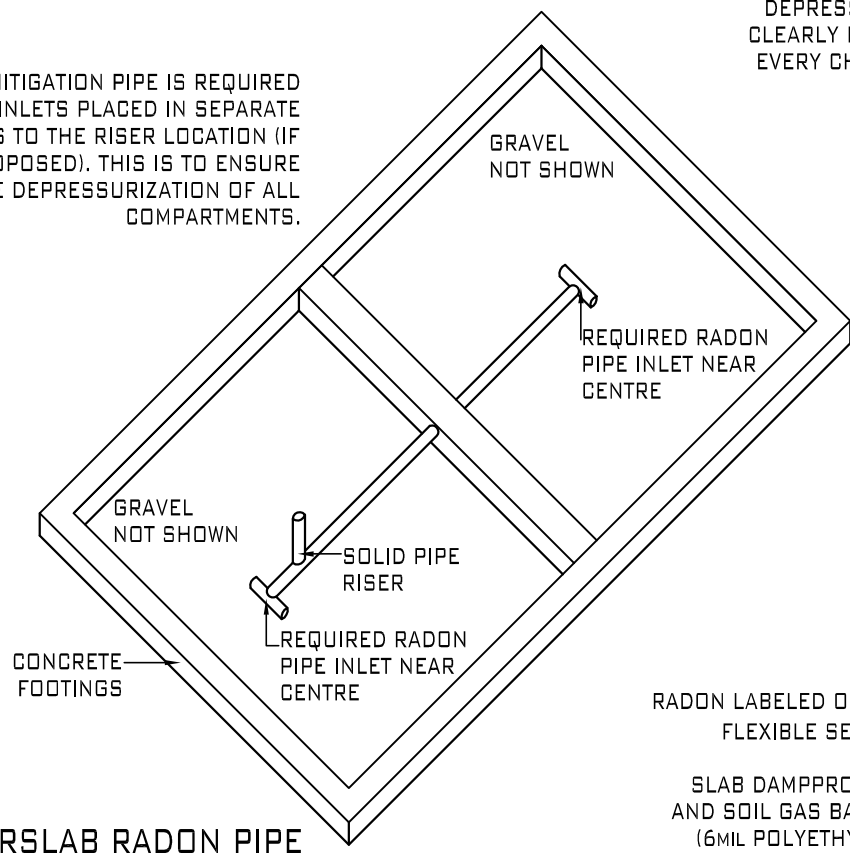
PICKET CONNECTION DETAIL (EC-1)

EXTERIOR CONNECTION: INFILL PICKET NAILED TO ENDCAP / ENDCAP SCREWED TO RAIL

SCALE: N.T.S.

NOTES:
1. FASTEN EACH END OF EACH PICKET TO ENDCAPS WITH (2) 2\"/>

SOLID RADON MITIGATION PIPE IS REQUIRED BETWEEN INLETS PLACED IN SEPARATE COMPARTMENTS TO THE RISER LOCATION IF ONE RISER IS PROPOSED. THIS IS TO ENSURE EFFECTIVE DEPRESSURIZATION OF ALL COMPARTMENTS.



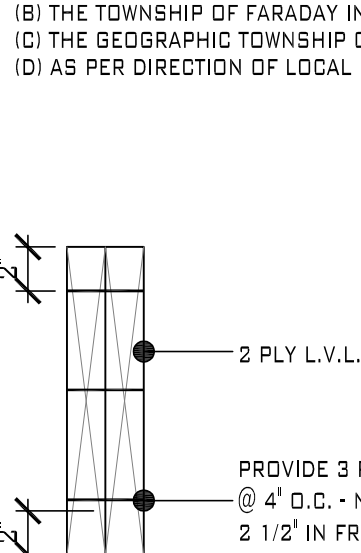
UNDERSLAB RADON PIPE

SCALE: NOT TO SCALE

SUBFLOOR DEPRESSURIZATION SYSTEM DETAILS

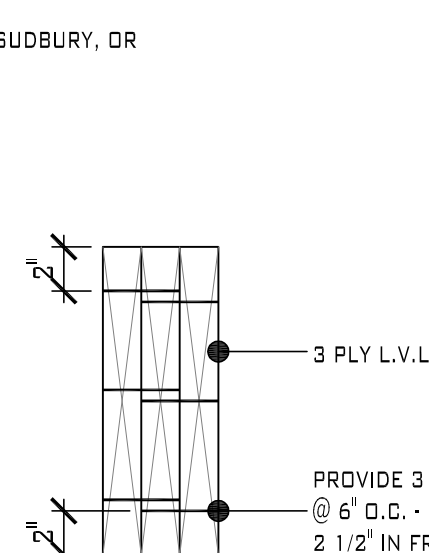
SCALE: NOT TO SCALE

9.1.1.7. RADON
(1) IN ADDITION TO ALL OTHER REQUIREMENTS, A BUILDING IN THE FOLLOWING DESIGNATED AREAS SHALL BE DESIGNED AND CONSTRUCTED SO THAT THE ANNUAL AVERAGE CONCENTRATION OF RADON 222 DOES NOT EXCEED 200 Bq/m3 IF AIR AND THE ANNUAL AVERAGE CONCENTRATION OF THE SHORT LIVED DAUGHTERS OF RADON 222 DOES NOT EXCEED 0.02 WORKING LEVEL INSIDE THE BUILDING FOR:
(A) THE CITY OF ELLIOT LAKE IN THE TERRITORIAL DISTRICT OF ALGOMA,
(B) THE TOWNSHIP OF FARADAY IN THE COUNTY OF HASTINGS, AND
(C) THE GEOGRAPHIC TOWNSHIP OF HYMAN IN THE TERRITORIAL DISTRICT OF SUDBURY, OR
(D) AS PER DIRECTION OF LOCAL MUNICIPALITY



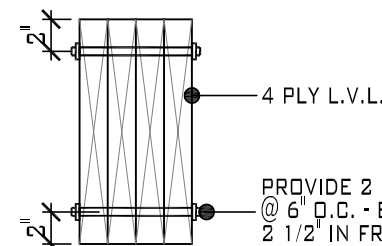
NAILING PATTERN FOR 2 PLY L.V.L.

SCALE: N.T.S.



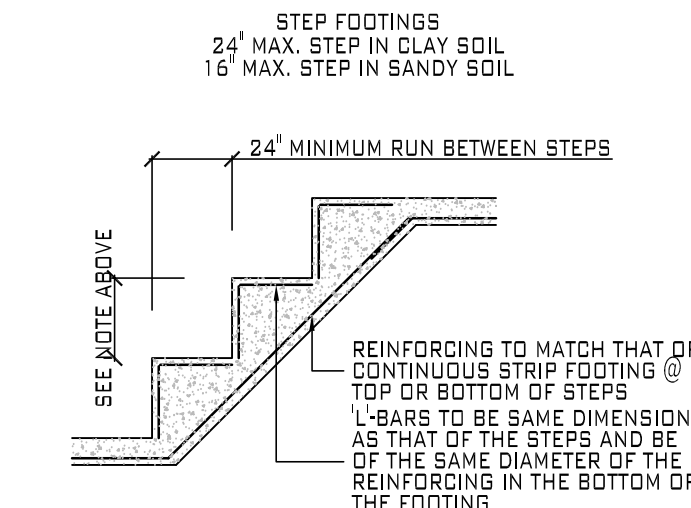
NAILING PATTERN FOR 3 PLY L.V.L.

SCALE: N.T.S.



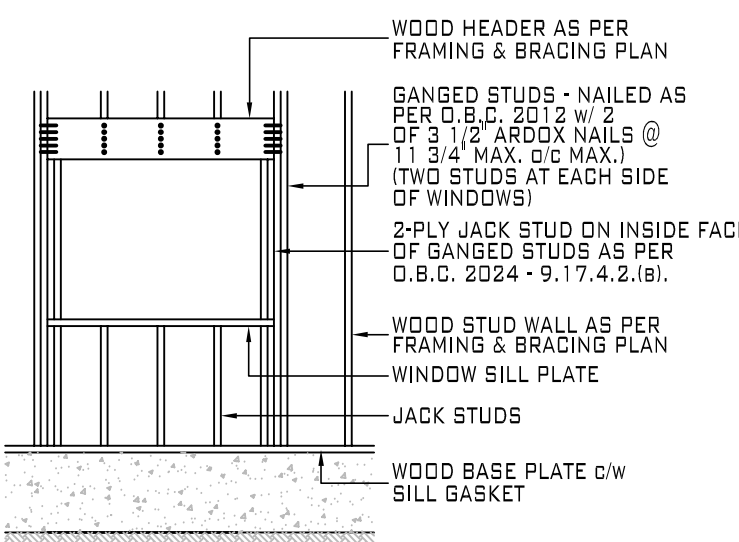
4 PLY L.V.L. CONNECTION DETAIL

SCALE: N.T.S.



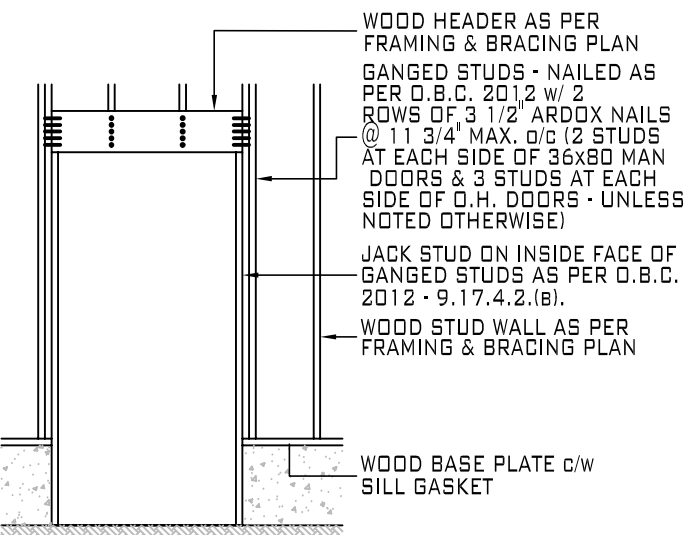
STEPPED FOOTING DETAIL

SCALE: N.T.S.



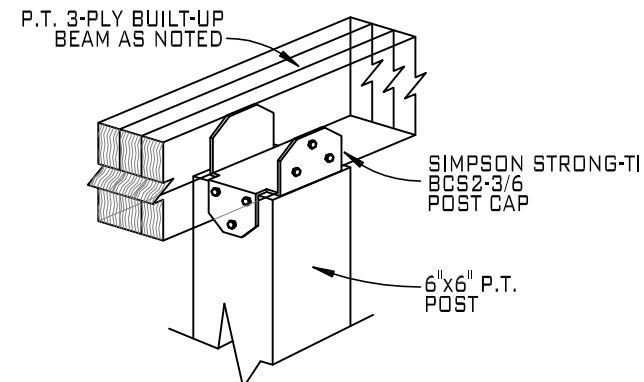
WINDOW FRAMING DETAIL

SCALE: NOT TO SCALE



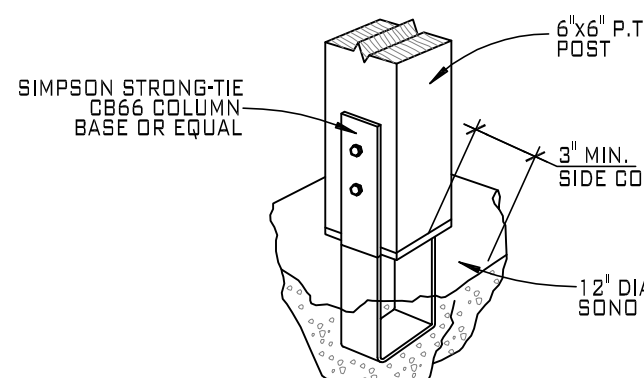
DOOR FRAMING DETAIL

SCALE: NOT TO SCALE



BEAM TO POST

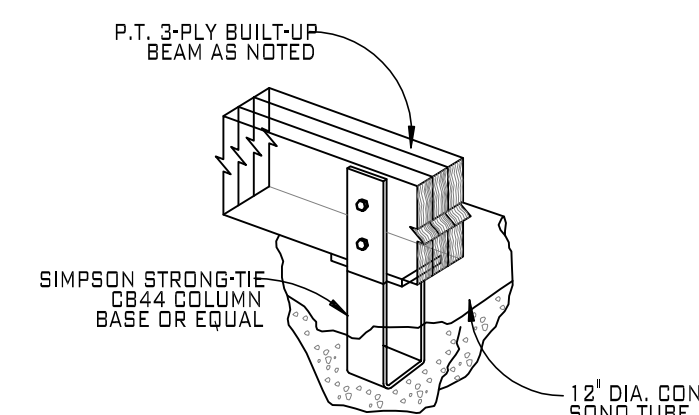
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NOTE:
ALL DECK CONNECTORS TO BE HOT DIP GALVANIZED (FOR USE W/ ALL P.T. LUMBER).

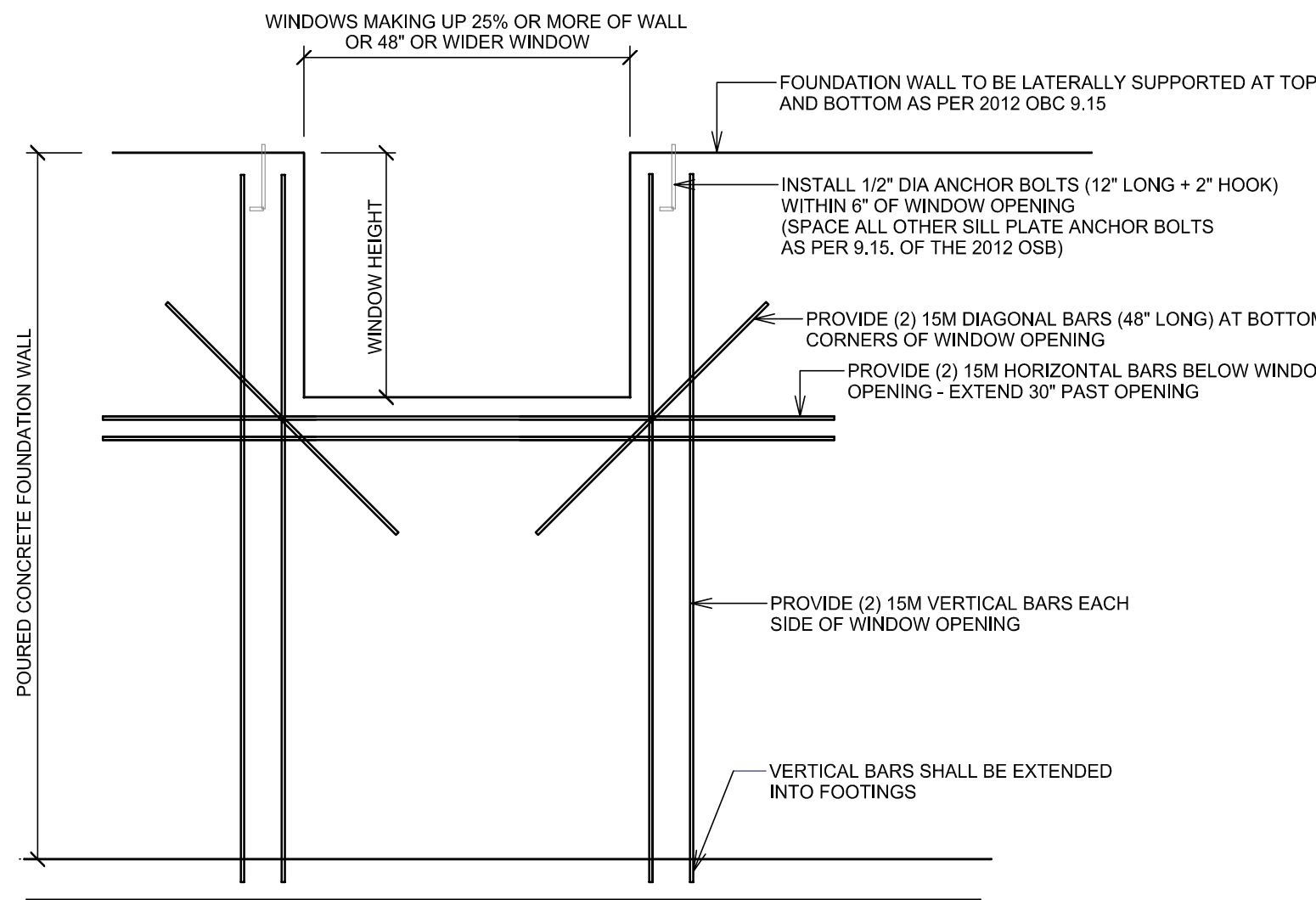
POST TO SONO TUBE

SCALE: NOT TO SCALE



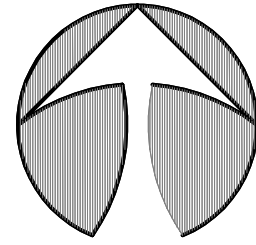
BEAM TO SONO TUBE

SCALE: NOT TO SCALE



WINDOW OPENING DETAIL

SCALE: N.T.S.



CONSTRUCTION NORTH

MUNICIPALITY OF
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EMAIL: DALEBHSERVICES@GMAIL.COM

PROPOSED COTTAGE

AIR BARRIER DETAILS

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

DATE: JULY 14, 2025

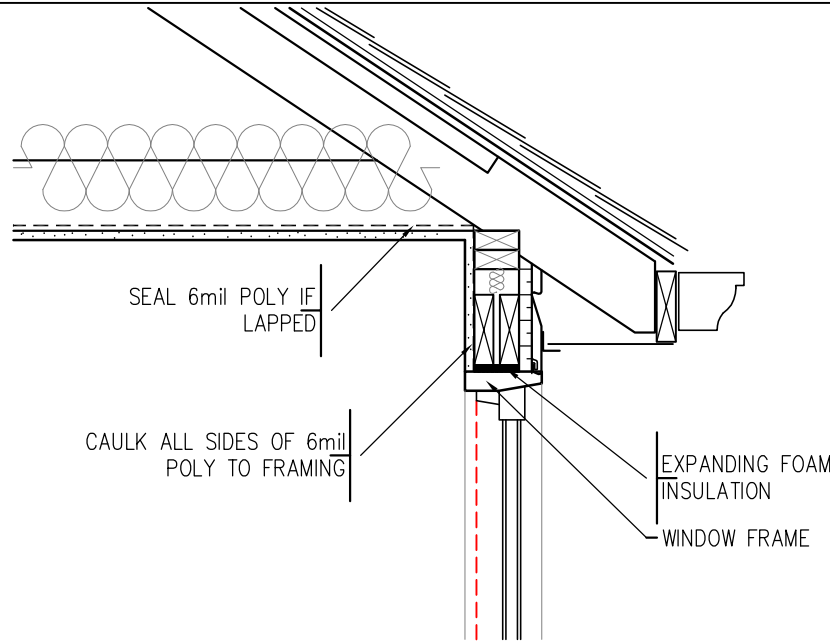
DRAWING BY: T. STREATCH

DESIGNED/CHECKED BY: M. VASANTHA

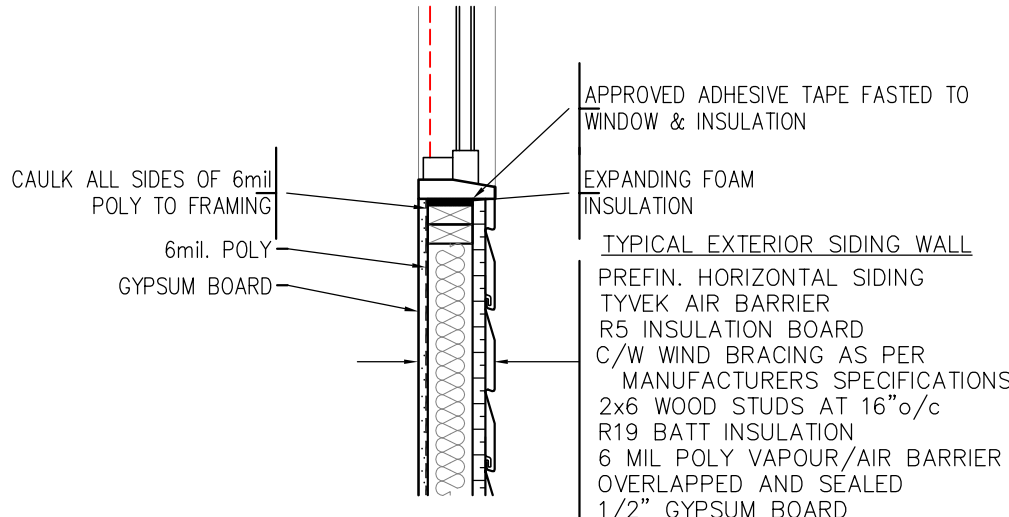
PROJECT NO: 24-286

DRAWING NO:

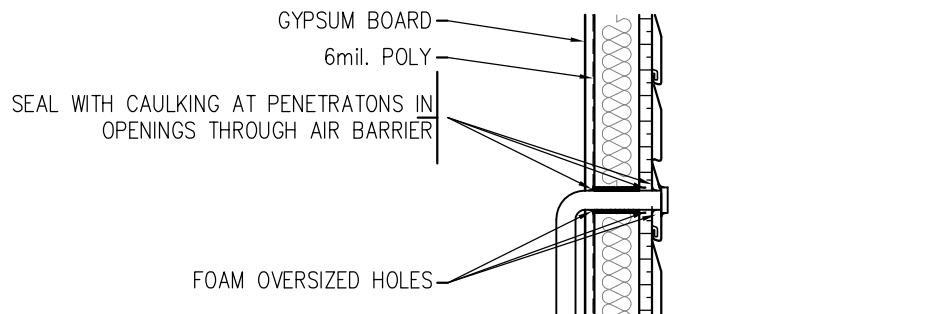
A-8



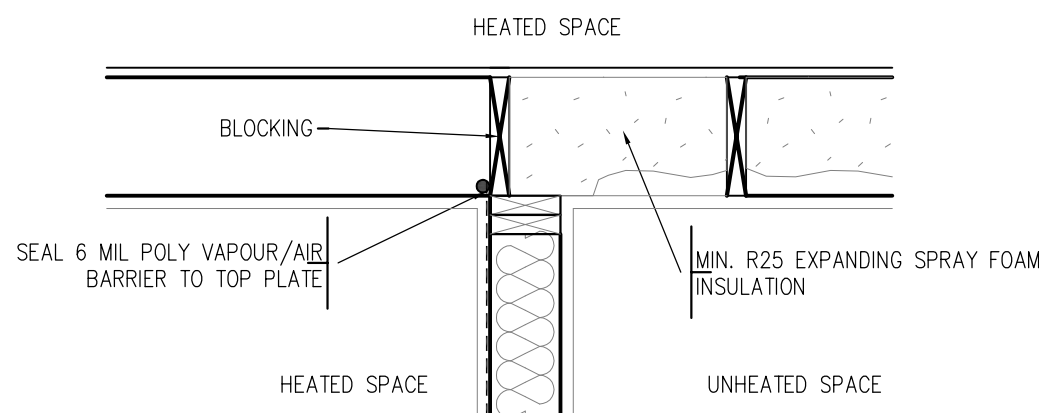
TYPICAL SECOND STOREY WINDOW HEADER



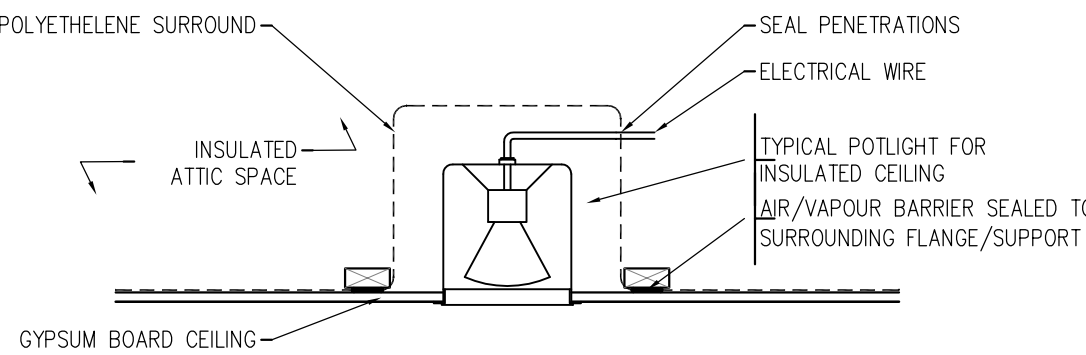
TYPICAL WINDOW SILL



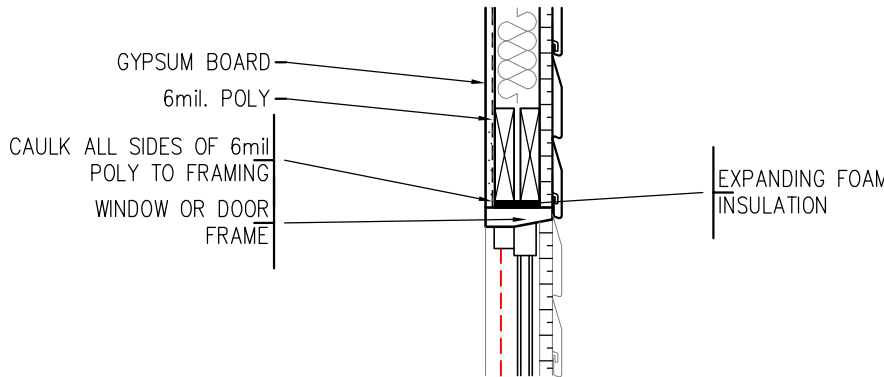
TYPICAL EXTERIOR WALL PENETRATION



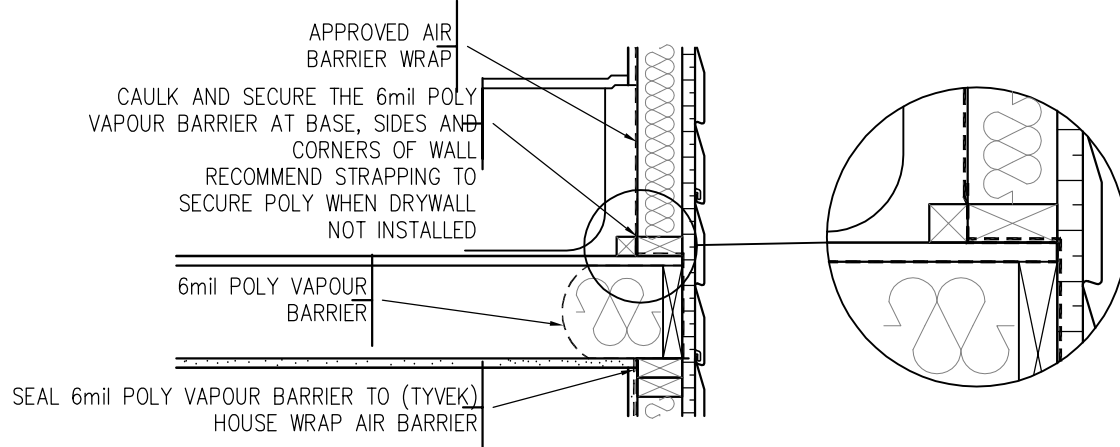
TYPICAL INTERIOR GARAGE WALL



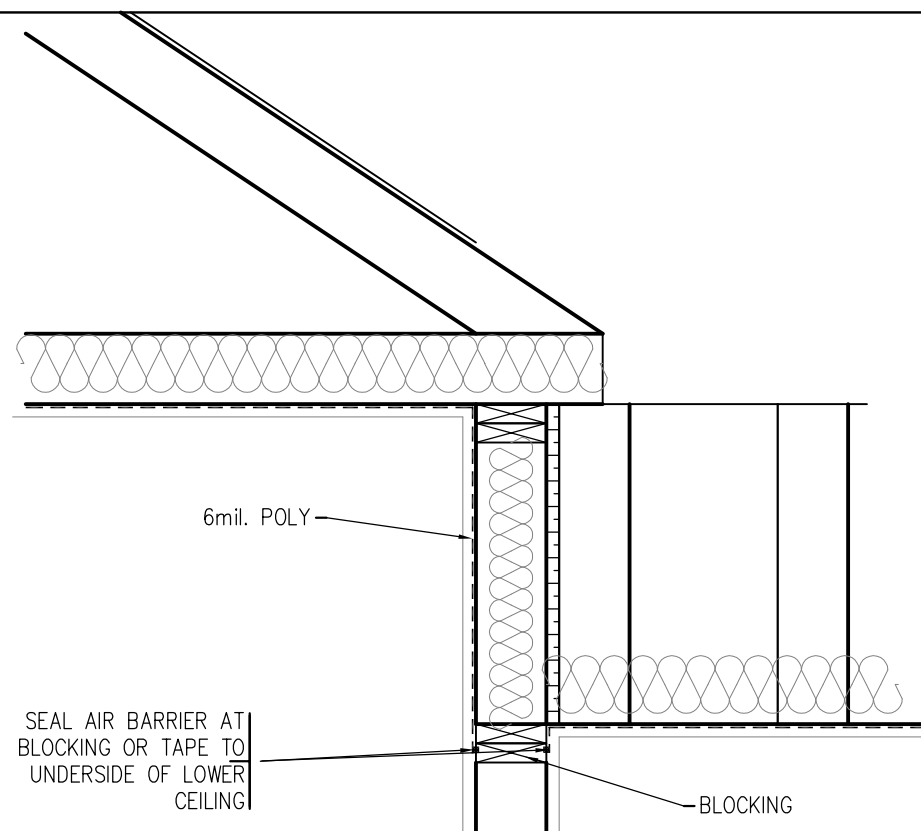
TYPICAL CEILING LIGHT PENETRATION



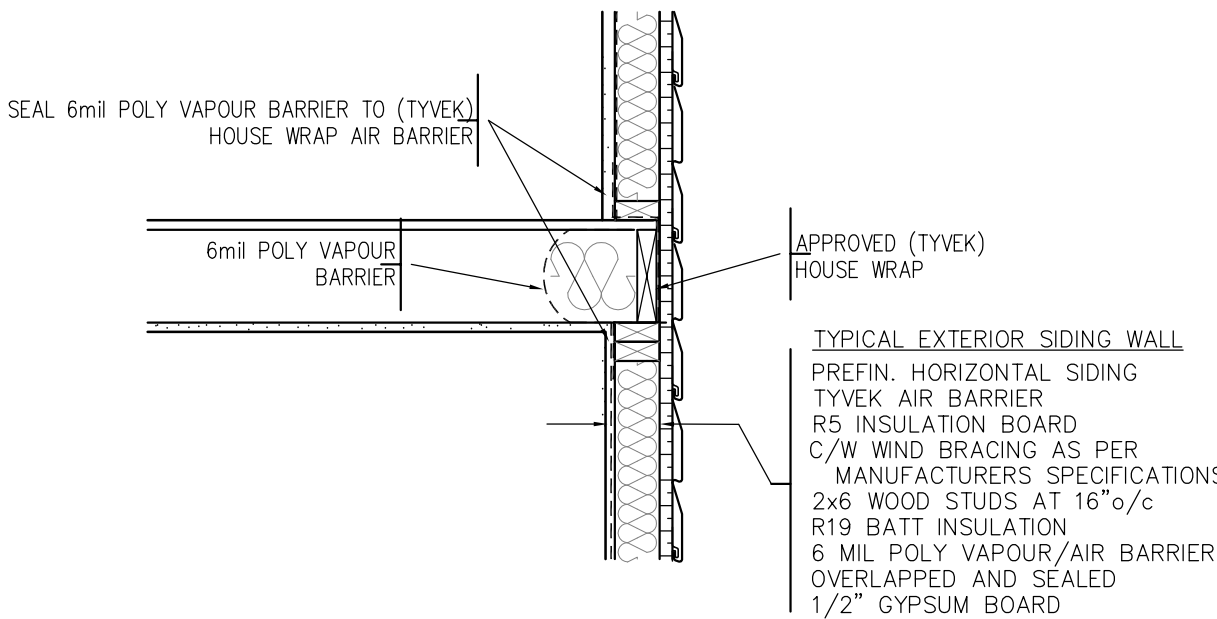
TYPICAL WINDOW OR DOOR FRAME



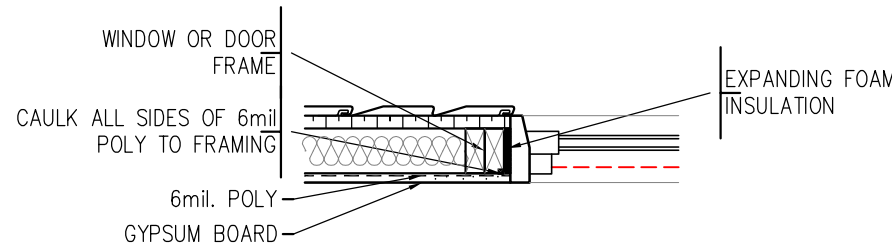
SEAL AIR BARRIER MATERIALS AT BOTTOM PLATE
BEHIND TUB/SHOWER



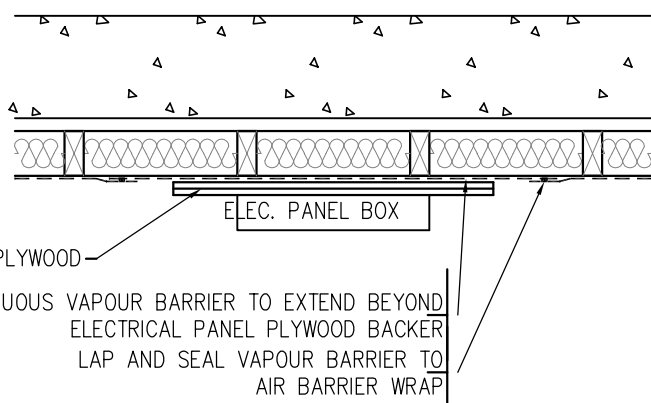
TYPICAL OFFSET CEILINGS



TYPICAL FLOOR TRANSITION BELT



TYPICAL WINDOW OR DOOR FRAME



ELECTRICAL PANELS

SUPPLEMENTARY AIR BARRIER DETAILS

AIR BARRIER IS A SEPARATE INSPECTION WHICH MUST BE CALLED PRIOR TO ANY EXTERIOR FINISH (BRICK, SIDING) BEING INSTALLED. BUILDER IS RESPONSIBLE TO ENSURE AIR BARRIER DETAILS ARE IN PLACE WHEN INSPECTION CALLED. DIV. C ADMINISTRATIVE PROVISIONS, PT. 1 GENERAL, NOTICES AND INSPECTIONS, 1.3.5.1. PRESCRIBED NOTICES, 1.3.5.1(2)(F)

- 9.25. HEAT TRANSFER, AIR LEAKAGE AND CONDENSATION CONTROL
- 9.25.1.1. SCOPE AND APPLICATION
- (1) ALL WALLS, CEILINGS AND FLOOR SEPARATING CONDITIONED SPACE FROM UNCONDITIONED SPACE THE EXTERIOR AIR OR THE GROUND SHALL BE,
- (A) PROVIDE WITH
- (I) THERMAL INSULATION CONFORMING TO SUBSECTION 9.25.2.,
- (II) AN AIR BARRIER SYSTEM CONFORMING TO SUBSECTION 9.25.3., AND
- (III) A VAPOUR BARRIER CONFORMING TO SUBSECTION 9.25.4., AND
- (B) CONSTRUCTED IN SUCH A WAY THAT THE PROPERTIES AND RELATIVE POSITION OF ALL MATERIAL CONFORM TO SUBSECTION 9.25.5.
- (3) INSULATING AND SEALING OF HEATING AND VENTILATING DUCTS SHALL CONFORM TO SUBSECTIONS 9.32., 9.33

9.25.3.3. CONTINUITY OF THE AIR BARRIER SYSTEM

(1) WHERE THE AIR BARRIER SYSTEM CONSISTS OF AIR-IMPERMEABLE PANEL-TYPE MATERIAL, ALL JOINTS SHALL BE SEALED TO PREVENT AIR LEAKAGE.

(2) WHERE THE AIR BARRIER SYSTEM CONSIST OF FLEXIBLE SHEET MATERIAL, ALL JOINTS SHALL BE (A) SEALED WITH COMPATIBLE MATERIAL SUCH AS TAPE OR FLEXIBLE SEALANT, OR (B) EXCEPT AS REQUIRED BY SENTENCE (2.1), LAPPED NOT LESS THAN 4" AND CLAMPED, SUCH AS BETWEEN FRAMING MEMBERS, FURRING OR BLOCKING, AND RIGID PANELS.

(2.1) WHERE AN AIR BARRIER SYSTEM CONSISTING OF FLEXIBLE SHEET MATERIAL IS INSTALLED AT LOCATIONS WHERE IT IS NOT SUPPORTED BY AN INTERIOR FINISH, SUCH AS BEHIND A BATHTUB, SHOWER ENCLOSURE OR FIREPLACE, THE CONTINUITY OF THE AIR BARRIER SHALL BE MAINTAINED BY SEALING ITS JOINTS.

(3) WHERE AN INTERIOR WALL MEETS AN EXTERIOR WALL, CEILING, FLOOR OR ROOF REQUIRED TO BE PROVIDED WITH AIR BARRIER PROTECTION, THE AIR BARRIER SYSTEM SHALL EXTEND ACROSS THE INTERSECTION AND SHALL BE SEALED IN ACCORDANCE WITH SENTENCES (1) AND (2)

(4) WHERE AN INTERIOR WALL PROJECTS THROUGH A CEILING OR EXTENDS TO BECOME AN EXTERIOR WALL, SPACES IN THE ALL SHALL BE BLOCKED TO PROVIDE CONTINUITY ACROSS THOSE SPACES WITH THE AIR BARRIER SYSTEM IN THE ABUTTING WALLS OR CEILING BY

(A) SEALING EACH AIR BARRIER TO THE BLOCKING, OR

(B) WRAPPING EACH AIR BARRIER AROUND THE TRANSITION AND SEALING IN ACCORDANCE WITH SENTENCES (1) AND (2)

(5) WHERE AN INTERIOR FLOOR PROJECTS THROUGH AN EXTERIOR WALL TO BECOME AN EXTERIOR FLOOR, (A) THE AIR BARRIER OF THE WALL UNDER THE FLOOR SHALL BE CONTINUOUS WITH OR SEALED TO THE SUBFLOOR OR THE AIR BARRIER ON THE UNDERSIDE OF THE FLOOR,

(B) THE AIR BARRIER OF THE WALL ABOVE THE FLOOR SHALL BE CONTINUOUS WITH OR SEALED TO THE SUBFLOOR OR THE AIR BARRIER ON THE TOP OF THE FLOOR, AND

(C) THE SPACES BETWEEN FLOOR JOISTS SHALL BE BLOCKED AND SEALED.

(6) PENETRATIONS OF THE AIR BARRIER SYSTEM, SUCH AS THOSE CREATED BY THE INSTALLATION OF ELECTRICAL WIRING, ELECTRICAL BOXES, PIPING OR DUCTWORK, SHALL BE SEALED TO MAINTAIN THE INTEGRITY OF THE AIR BARRIER SYSTEM OVER THE ENTIRE SURFACE.

(6.1) WHERE AN INTERIOR AIR BARRIER IS PENETRATED BY DOORS, WINDOWS AND OTHER FENESTRATION, THE AIR BARRIER SHALL BE SEALED TO THE DOOR FRAME OR WINDOW FRAME WITH

(A) COMPATIBLE TAPE, OR

(B) SPRAY FOAM INSULATION.

(7) WHERE ACCESS HATCHES AND SUMP PIT COVERS ARE INSTALLED THROUGH ASSEMBLIES CONSTRUCTED WITH AN AIR BARRIER SYSTEM, THEY SHALL BE WEATHERSTRIPPED AROUND THEIR PERIMETERS TO PREVENT AIR LEAKAGE.

(8) CLEARANCES BETWEEN CHIMNEYS OR GAS VENTS AND THE SURROUNDING CONSTRUCTION THAT WOULD PERMIT AIR LEAKAGE FROM WITHIN THE BUILDING INTO A WALL OR ATTIC OR ROOF SPACE SHALL BE SEALED BY NONCOMBUSTIBLE MATERIAL TO PREVENT SUCH LEAKAGE AND SHALL BE SEALED TO THE AIR BARRIER WITH TAPE OR ANOTHER COMPATIBLE MATERIAL, AND TO THE VENT WITH HIGH TEMPERATURE CAUSING IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

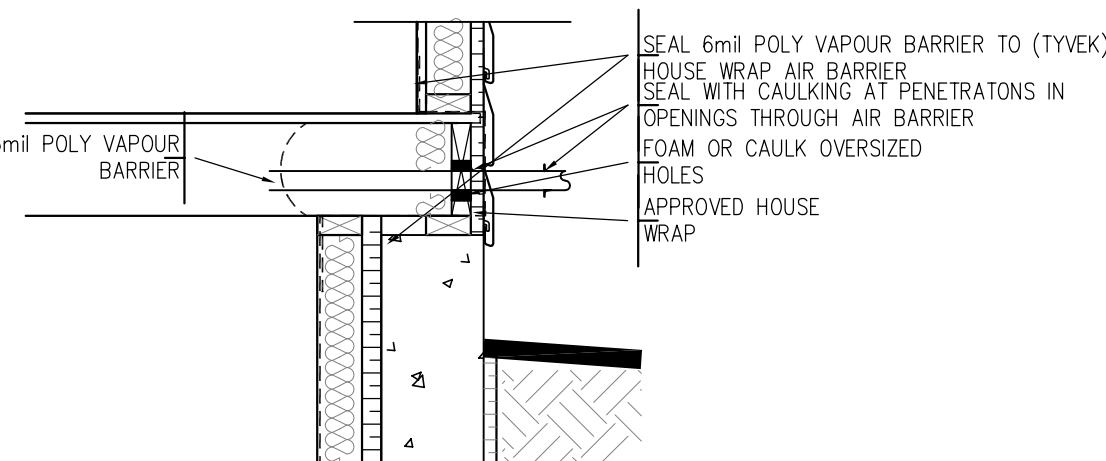
(9) RESERVED

(10) SUMP PIT COVERS SHALL BE SEALED TO MAINTAIN CONTINUITY OF THE AIR BARRIER SYSTEM.

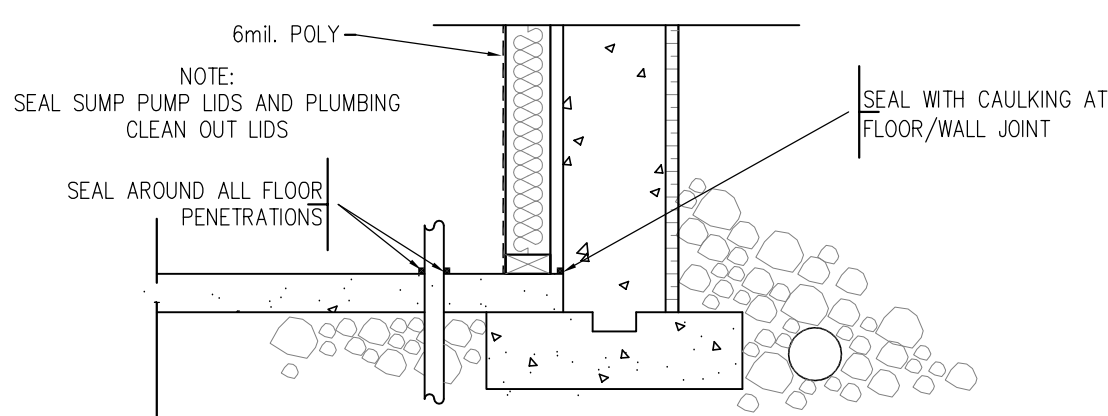
IF THE AIR BARRIER IS LOCATED ON EXTERIOR, SEAL GAPS BETWEEN RIGID INSULATION AND DOOR OR WINDOW FRAMES. RIGID INSULATION IS TO BE CAULKED TO THE TOP AND BOTTOM PLATES.

NOTE: PETROLEUM BASED TAR PRODUCTS ARE NOT TO COME IN CONTACT WITH RIGID FOAM SHEATHING.

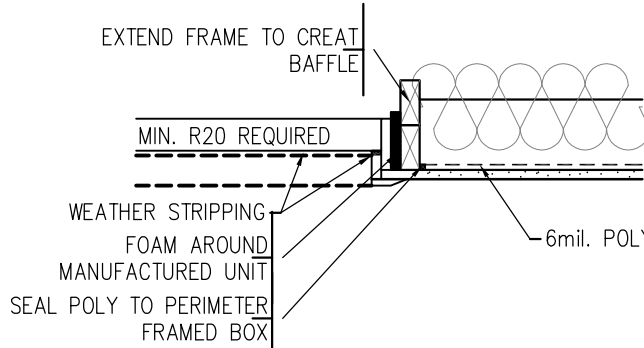
AIR BARRIER TO BE CONTINUOUS THROUGHOUT ENTIRE BASEMENT. MAINTAIN AIR BARRIER BETWEEN COLD ROOM AND BASEMENT.



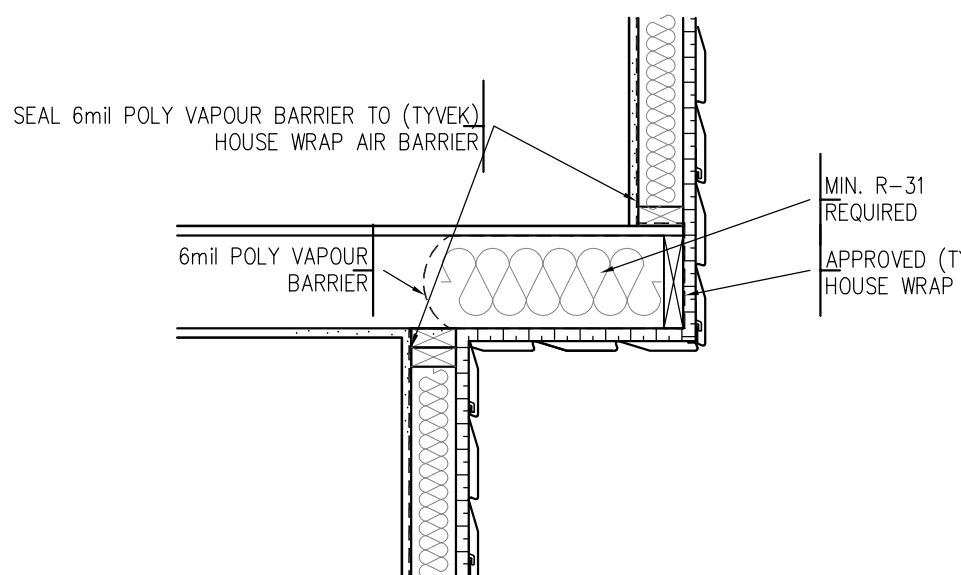
BELT WALL PENETRATIONS



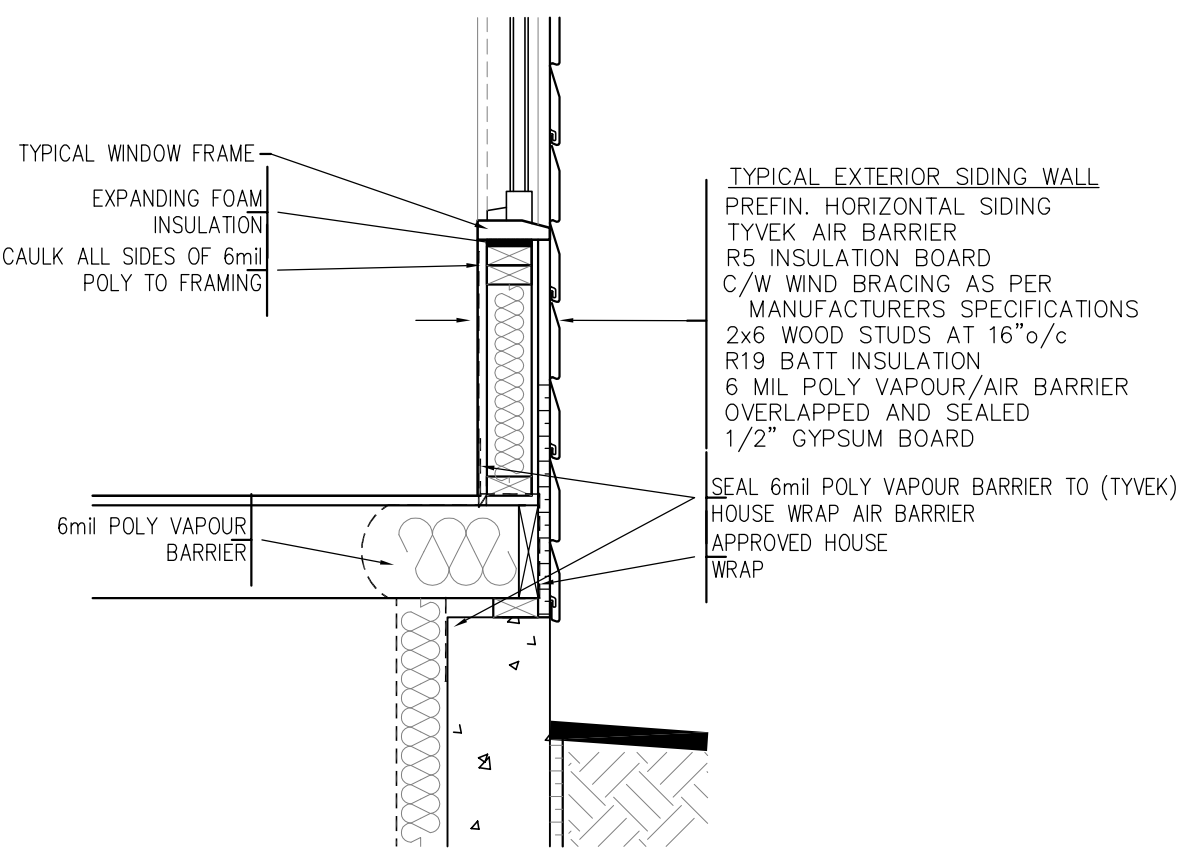
BASEMENT FLOOR



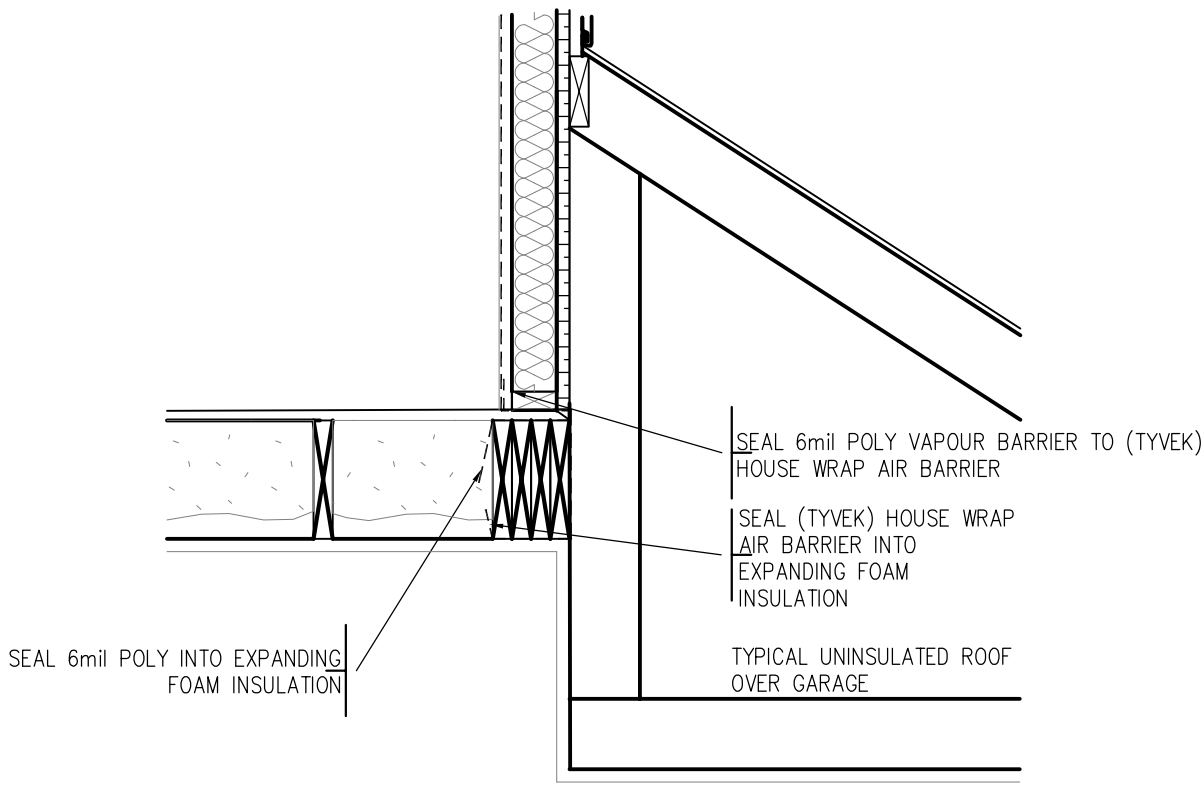
MANUFACTURED ATTIC ACCESS LID



TYPICAL FLOOR CANTILEVER FOR FIREPLACE, BAY ETC.



TYPICAL EXTERIOR WALL TO FOUNDATION



TYPICAL EXTERIOR ABOVE GARAGE