

DIRECTIONS FOR USE:

- THIS FLOATING SLAB FOUNDATION DESIGN IS FOR A 1 STOREY WOOD STUD FRAMED STRUCTURE WITH NO MASONRY OR OTHER FINISHES SUSCEPTIBLE TO CRACKING.
- DETERMINE THE LARGER BUILDING DIMENSION, LENGTH OR WIDTH AND SELECT EDGE DEPTH FROM TABLE 1. NOTE: SLAB DESIGN IS NOT AFFECTED BY SPAN DIRECTION OF ROOF FRAMING ABOVE.
- TO INCLUDE ATTIC TRUSSES ADD THE WIDTH OF THE ROOM TO BOTH THE LENGTH AND WIDTH.
- TO ADD UP TO 48" OF MASONRY VENEER AROUND THE PERIMETER, INCREASE EDGE DEPTH BY 2", INSTALL VERTICAL CONTROL JOINTS IN VENEER AT MAX. 8'-0" O.C.
- BUILDINGS THAT DO NOT MEET THE ABOVE CRITERIA SHALL NOT USE THIS DETAIL.

EXAMPLE 1:

18'-0" x 36'-0" WITH 4'-0" BRICK VENEER.

FROM TABLE 1, FOR 36'-0" ---> SELECT 17" EDGE DEPTH FOR BRICK VENEER ADD 2" TO EDGE THICKNESS

... INSTALL SLAB WITH A 19" EDGE DEPTH

EXAMPLE 2:

24'-0" x 30'-0" WITH ATTIC TRUSS (12'-0" WIDE ROOM IN TRUSS SPACE)

EFFECTIVE SLAB DIMENSIONS (24'-0" + 12'-0") = 36'-0" AND (30'-0" + 12'-0") = 42'-0"

EFFECTIVE SLAB DIMENSION IS OFF THE CHART 👶 USE OF THIS PLAN IS NOT PERMITTED.

TABLE 1

LARGEST DIMENSION	EDGE DEPTH
MAX. 20'-0"	13"
MAX. 24'-0"	14"
MAX. 28'-0"	15"
MAX. 32'-0"	16"
MAX. 36'-0"	17"
MAX. 40'-0"	18"

FOR FOUNDATIONS WITH GREATER THAN 40'-0" DIMENSIONS, FOUNDATION DESIGN MUST BE COMPLETED BY A PROFESSIONAL ENGINEER

GENERAL NOTES:

- 1. THIS DESIGN HAS BEEN COMPLETED TO THE 2024 ONTARIO BUILDING CODE (r2024).
- CONTACT TACOMA ENGINEERS FOR CONSTRUCTION REVIEWS AS REQUIRED BY THE LOCAL MUNICIPALITY.
- THIS FOUNDATION DESIGN SHALL NOT BE USED IN GEOGRAPHIC AREAS SUBJECT TO TERMITE INFESTATION.

SITE & SOILS:

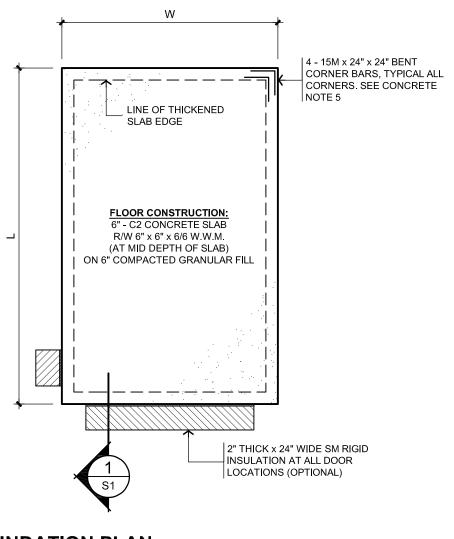
- 1. PREPARE THE AREA FOR PROPOSED STRUCTURE BY REMOVING ALL TOPSOIL AND ORGANIC MATERIAL FROM THE AREA OF THE BUILDING.
- SLOPE FINAL GRADE AWAY FROM THE BUILDING.
- BEAR SLAB ON GRANULAR FILL (6" MINIMUM) OR 3/4" CRUSHED STONE TO 98% STANDARD PROCTOR DENSITY ON SOUND ORIGINAL (NATIVE) SUBGRADE.
- SUBGRADE SHALL BE SUITABLE FOR 75 kPa (1500 psf) SAFE BEARING.

CONCRETE:

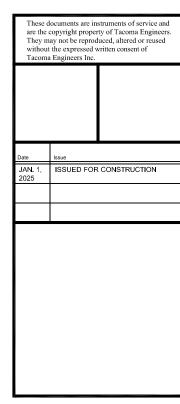
- CONCRETE WORK SHALL CONFORM TO CAN/CSA-A23.1,2,3 FOR MATERIALS AND WORKMANSHIP. W/C RATIO CLASS OF CONCRETE STRENGTH AIR ENTRAINMENT
- 2. ALL CONCRETE SHALL BE KEPT MOIST DURING THE FIRST THREE DAYS OF CURING. DO NOT ADD WATER TO CONCRETE ON SITE.
- ALL REBAR SHALL BE DEFORMED BARS WITH A MINIMUM YIELD STRENGTH OF 400 MPa. ALL LAP LENGTHS AS FOLLOWS:
 - 10M BARS 450mm (18")
- 15M BARS 600mm (24") 4. PROVIDE A MINIMUM 9" LAP FOR WELDED WIRE MESH.
- PROVIDE CONTINUOUS REINFORCING AROUND CORNERS WITH 15Mx24"x24" BENT DOWELS (FOUR DOWELS PER CORNER).
- DO NOT SAWCUT SLAB.
- 7. 2 10M BARS CAN BE SUBSTITUTED FOR 1 15M BAR.

INSULATION:

1. ALL INSULATION SHALL BE EXTRUDED POLYSTYRENE FOAM (XPS) TYPE IV, V, VI OR VII WITH A MINIMUM NOMINAL R-VALUE OF R5 / INCH.

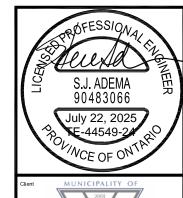


FOUNDATION PLAN





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TYPICAL FLOATING SLAB

FOUNDATION PLAN & NOTES

ONTARIO

1/8" = 1'-0" JDH

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