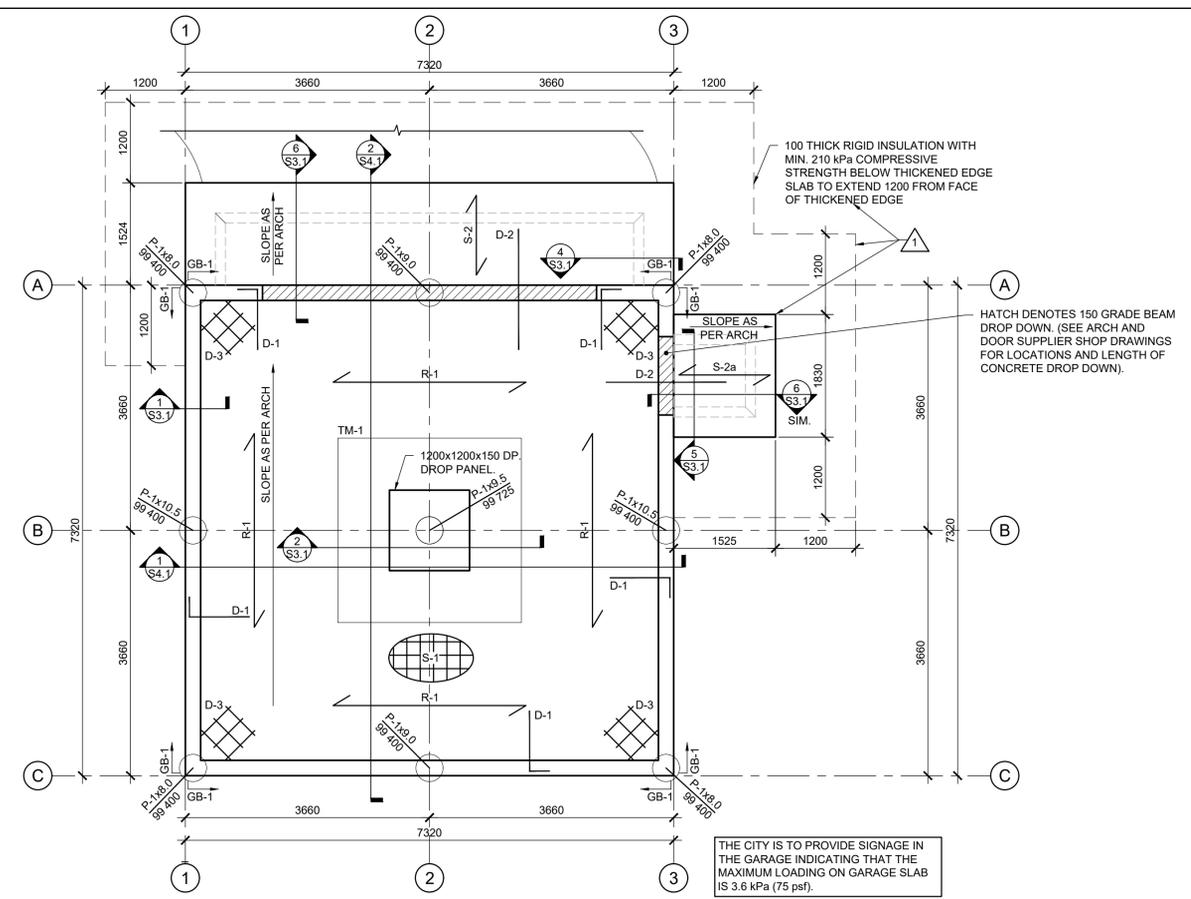


ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE STRUCTURAL ENGINEER.
 NO REPRODUCTIONS MAY BE MADE WITHOUT THE CONSENT OF THE STRUCTURAL ENGINEER AND ALL REPRODUCTIONS MUST BEAR THE NAME OF THE STRUCTURAL ENGINEER.
 THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS AND LEVELS NOTED ON THE DRAWINGS WITH THE CONDITIONS ON SITE AND SHALL BE RESPONSIBLE FOR REPORTING ANY ERRORS OR OMISSIONS TO THE STRUCTURAL ENGINEER FOR ADJUSTMENTS.
 THIS DRAWING SHALL NOT BE SCALED.

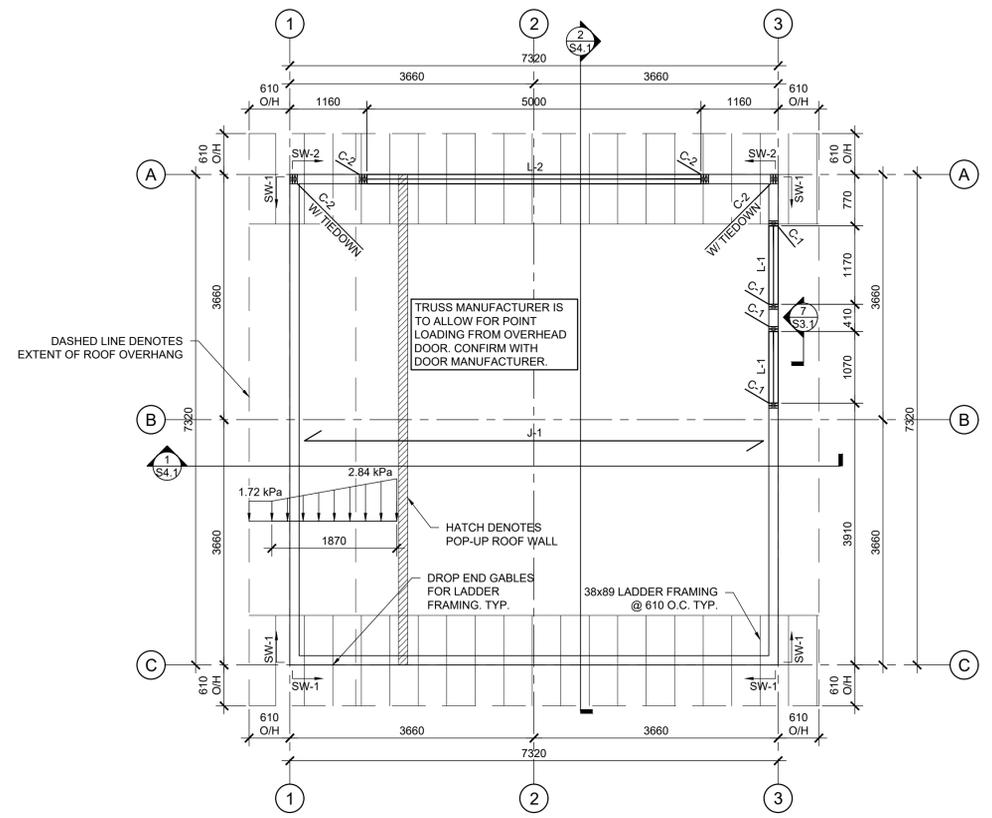


FOUNDATION & MAIN FLOOR FRAMING PLAN

SCALE: 1:50

GARAGE FLOOR DESIGN LOADING:
 DEAD LOAD = 3.6 kPa
 LIVE LOAD = 3.6 kPa

- NOTES:**
- SEE SECTIONS, DETAILS, AND ARCHITECTURAL FOR T.O. CONCRETE ELEVATION.
 - GRIDS ARE TO FACE OF CONCRETE GRADE BEAM U/LN.
 - ALL DIMENSIONS ARE TO GRID, CENTER OF CONCRETE PILES, OR FACE OF CONCRETE.
 - SEE DETAIL 3 ON S3.1 FOR GRADE BEAM CONSTRUCTION JOINT IF APPLICABLE.

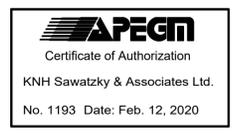


ROOF FRAMING PLAN

SCALE: 1:50

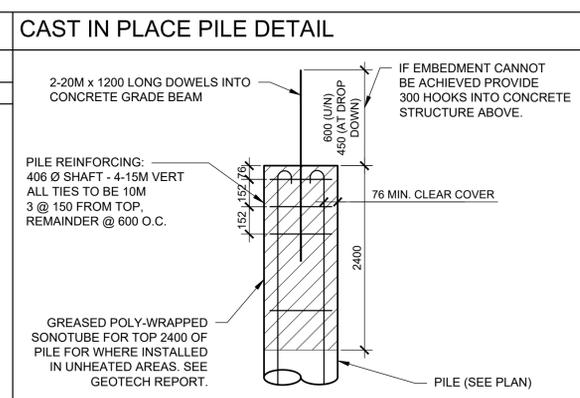
ROOF DESIGN LOADING:
 DEAD LOAD = 0.72 kPa
 SNOW LOAD = 1.72 kPa + SNOW BUILT-UP (SEE PLAN)

- NOTES:**
- SEE SECTIONS, DETAILS, AND ARCHITECTURAL FOR T.O. SHEATHING ELEVATIONS.
 - GRIDS ARE TO FACE OF STUD WALL U/LN.
 - DIMENSIONS ARE TO GRID OR FACE OF STUD WALL U/LN.
 - CONFIRM SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS.



C.I.P. PILE SCHEDULE	
MARK	DESCRIPTION
P-1	406 Ø C.I.P. PILE

- ALL PILES TO BE CENTERED UNDER GRADE BEAMS, COLUMNS, AND PILE CAP.
 - U/LS CAPACITY HAS ALREADY UTILIZED A RESISTANCE FACTOR OF 0.4 AS NOTED IN THE SITE SPECIFIC GEOTECHNICAL REPORT.



SLAB SCHEDULE	
MARK	DESCRIPTION
S-1	150 THICK CONCRETE STRUCTURAL SLAB (TWO WAY) ON 10 MIL POLY VAPOUR BARRIER ON 9.5 OSB SHEATHING ON 150 PLASTIC WRAPPED CARDBOARD VOIDFORM ON 50 LOOSE LEVELING SAND REINF: 15M @ 300 O.C. E.W. (BLL IN LONG DIRECTION U/LN)
S-2 (S-2a)	150 THICK CONCRETE STRUCTURAL SLAB (ONE WAY) ON 10 MIL POLY VAPOUR BARRIER ON 9.5 OSB SHEATHING ON 150 PLASTIC WRAPPED CARDBOARD VOIDFORM ON 50 LOOSE LEVELING SAND REINF: 15M @ 300 O.C. E.W. AT BOTTOM OF SLAB C/W 450 WIDE x 300 HIGH CONCRETE THICKENED EDGE (S-2a; 300 WIDE x 300 HIGH CONCRETE THICKENED EDGE) ON 10 MIL POLY VAPOUR BARRIER ON 100 THICK RIGID INSULATION (SEE PLAN) ON 300 (MIN.) COMPACTED GRANULAR FILL (S-2a; ON 150 (MIN.) COMPACTED GRANULAR FILL) ON COMPACTED SUBGRADE THICKENED EDGE REINF: 2-20M TOP AND BOTTOM, (S-2a; 2-15M TOP AND BOTTOM) 10M STIRRUPS @ 300 O.C., ALTERNATE □ & ~

NOTES:

- COMPACTED GRANULAR MATERIAL TO BE COMPACTED IN 150 LIFTS MAX AS PER GEOTECHNICAL REPORT
- SLABS ON GRADE TO BEAR ON COMPACTED GRANULAR BASE MATERIAL AS PER GEOTECHNICAL REPORT.
- ~ indicates orientation of bottom lower layer FOR 'ONE-WAY' SLABS

DOWEL SCHEDULE	
MARK	DESCRIPTION
D-1	15M x 1200 LONG DOWELS @ 300 O.C. AT TOP OF SLAB 900
D-2	15M x 1800 LONG DOWELS @ 300 O.C. AT TOP OF SLAB 1800
D-3	6-15M DOWELS x 600 LONG DOWELS AT TOP OF SLAB AT CORNERS

TOP MAT SCHEDULE	
MARK	DESCRIPTION
TM-1	2750 x 2750 TOP MAT REINF: 15M @ 250 O.C. E.W. TOP

SLAB MIDDLE STRIP REINFORCING SCHEDULE	
MARK	DESCRIPTION
R-1	15M x 2750 LONG @ 300 O.C. TOP, FROM TOP MAT TO GRADE BEAM

NOTE:
 - ~ indicates orientation of reinforcing

JOIST SCHEDULE	
MARK	DESCRIPTION
J-1	PRE-ENGINEERED ROOF TRUSSES @ MAX. 600 O.C. SERIES AS PER MANUFACTURER'S SHOP DRAWINGS

LINTEL SCHEDULE	
MARK	DESCRIPTION
L-1	2 ply 38x235 C/W SINGLE JACK AND KING STUD
L-2	3 ply 45x356 2.0E LVL LINTEL C/W SINGLE JACK STUD AND DOUBLE KING STUDS. PROVIDE 2 ply 38x140 ON FLAT TOP AND BOTTOM PLATES (SEE SECTION).

COLUMN SCHEDULE	
MARK	DESCRIPTION
C-1	2 ply 38x140 BUILT-UP COLUMN
C-2	3 ply 38x140 BUILT-UP COLUMN

STUD/SHEAR WALL SCHEDULE	
MARK	DESCRIPTION
SW-1	38x140 @ 406 O.C. C/W 38x89 BLOCKING AT ALL EXTERIOR PANEL SPLICES. SHEAR WALL C/W 11 OSB SHEATHING ON EXTERIOR FACE OF STUD CONNECTED WITH 3.25mmØ x 64mm LONG COMMON WIRE NAILS @ 150 O.C. AT ALL PANEL EDGES AND @ 300 O.C. FOR INTERMEDIATE FRAMING MEMBERS.
SW-2	38x140 @ 406 O.C. C/W 38x89 BLOCKING AT ALL EXTERIOR PANEL SPLICES. SHEAR WALL C/W 11 OSB SHEATHING ON EXTERIOR FACE OF STUD CONNECTED WITH 3.25mmØ x 64mm LONG COMMON WIRE NAILS @ 75 O.C. AT ALL PANEL EDGES AND @ 300 O.C. FOR INTERMEDIATE FRAMING MEMBERS.

GRADE BEAM SCHEDULE	
MARK	DESCRIPTION
GB-1	230x750/600 CONCRETE GRADE BEAM REINF: 2-20M HORIZONTAL BARS TOP AND BOTTOM, 10M STIRRUPS @ 300 O.C.

NO.	REVISIONS	DATE	APP'D
1	RE-ISSUED FOR CONSTRUCTION	20.02.12	M.I.
0	ISSUED FOR CONSTRUCTION	19.11.27	M.I.

Prime Consultant:
KNH
 KNH SAWATZKY & ASSOCIATES
 STRUCTURAL ENGINEERING CONSULTANTS

SEAL: **KNH SAWATZKY & ASSOCIATES**
 Feb. 12, 2020
 Registered Professional Engineer
 30886

Project:
 CITY OF WINNIPEG
BRIDGWATER GARAGE
 200 NORTH TOWN ROAD
 WINNIPEG, MANITOBA

drawing title: FOUNDATION, MAIN FLOOR, AND ROOF FRAMING PLAN

approved by: MI	drawn by: BC
date: FEBRUARY 2020	project no.: 19,236
designed by: ZL	
sheet: S2.1	REV: 1