

GENERAL NOTES

1. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER PERTINENT CONTRACT DOCUMENTS.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.
3. THE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA 2010, ITS SUPPLEMENTS AND THE LATEST EDITIONS OF REFERENCED CODES AND STANDARDS THEREIN, UNLESS NOTED OTHERWISE.
4. REFER TO THE PRE-FABRICATED BUILDING DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, SLEEVES AND OTHER BUILDING COMPONENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
5. CONTRACTOR TO CONFIRM DIMENSIONS, WEIGHTS AND ALL OTHER CRITICAL DETAILS PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO THE ENGINEER AND OBTAIN AUTHORIZATION IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION.
6. DRAWINGS SHOW COMPLETED STRUCTURE ONLY. PROVIDE TEMPORARY BRACING FOR CONSTRUCTION LOADING CONDITIONS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
7. VERIFY LOCATION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCING CONSTRUCTION AND BE RESPONSIBLE FOR DISRUPTIONS.
8. ALL WORK SHALL CONFORM TO ALL APPLICABLE LOCAL BYLAWS AND CODES.
9. ALL REFERENCED CODES SHALL BE THE LATEST EDITIONS.
9. BUILDING CONTROL LINES, REFERENCE LINES, GRID LINES, AND TEMPORARY BENCH MARKS TO BE CLEARLY IDENTIFIED AND MAINTAINED DURING THE ENTIRE CONSTRUCTION.

DESIGN LOADS:

FOLLOWING LOADS ARE SERVICE LOADS

- | | | |
|----------------|-------------------------|--------------------|
| 1. DEAD LOADS: | PRE-FABRICATED BUILDING | 165 kN (37,000 lb) |
| 2. LIVE LOADS: | .1) GROUND SNOW LOAD - | Ss = 1.9 kPa |
| | .2) WIND LOAD | SR = 0.2 kPa |
| | .3) BUILDING FLOOR | q(1:50) 0.40 kPa |
| | | 4.8 kPa |

FOUNDATION NOTES

1. DESIGN BEARING CAPACITY (ULS): SLAB ON GRADE - RAFT SLAB: 255 kPa (UNFACTORED)
2. BEARING SURFACES FOR SLABS SHALL BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE. PROTECT BEARING SURFACES. DO NOT PLACE CONCRETE ON FROZEN SOIL.
3. PREVENT SUBGRADE FROM FREEZING AFTER CASTING SLABS UNTIL CONSTRUCTION IS COMPLETE AND STRUCTURES ARE IN SERVICE.
4. DO NOT UNDERMINE EXISTING ACCESSORY BUILDING.
5. REFER TO AECOM GEOTECHNICAL REPORT DATED SEPTEMBER 02, 2016.
6. CONTRACTOR TO HIRE AND PAY FOR GEOTECHNICAL ENGINEER TO VERIFY SUBGRADE AND BASE MATERIAL BY PERFORMING COMPACTION TESTS. TWO TESTS PER EACH 200mm LIFT.

INSULATED CONCRETE FORM NOTES

1. LOGIX OR EQUIVALENT. INSTALL PER MANUFACTURERS RECOMMENDATIONS. ALL CORNERS TO BE BRACED TO PREVENT BLOWOUT PRIOR TO CASTING CONCRETE.
2. INSTALL ALL FORMS LEVEL, PLUM, AND SQUARE PRIOR TO CASTING CONCRETE.
3. KNOCK DOWN FORMS TO BE USED.

CONCRETE NOTES

1. PROVIDE CONCRETE AND PERFORM WORK TO CAN/CSA A23.1. THE CONTRACTOR SHALL HAVE A COPY OF THIS STANDARD ON SITE AT ALL TIMES.
2. TEST CONCRETE IN ACCORDANCE WITH CAN/CSA A23.2.
3. CONCRETE REQUIREMENTS:

STRENGTH	EXPOSURE CLASS	MIX TYPE
32 MPa	C-2	GU

4. HEATING AND HOARDING, WHEN REQUIRED, SHALL BE PROVIDED AT CONTRACTOR'S COST.
5. CONCRETE COVER:
 - PIER: 40mm
 - WALL: 20mm
 - SLAB ON GRADE TOP: 50mm
 - BOTTOM: 75mm

CONCRETE REINFORCEMENT

1. DEFORMED BARS CONFORMING TO CAN/CSA-G30.18 GRADE 400.
2. REINFORCING WORK SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1 AND CAN/CSA A23.3.
3. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE RSIC "REINFORCING STEEL MANUAL OF STANDARD PRACTICE".
4. DOWELS AND ANCHOR BOLTS SHALL BE SECURED IN POSITION BY MEANS OF TEMPLATES BEFORE CONCRETE IS CAST.

STANDARD ABBREVIATIONS:

ADDITIONAL	ADD'L	MATERIAL	MATL.
AT	@	MAXIMUM	MAX.
ANCHOR BOLT	A. BOLT	MECHANICAL	MECH.
ALTERNATE	ALTER.	MIDDLE	MID.
ALUMINUM	ALUM.	MIDDLE UPPER LAYER	MUL
APPROXIMATE	APPROX.	MIDDLE LOWER LAYER	MLL
ARCHITECTURAL	ARCH.	MINIMUM	MIN.
AVERAGE	AVG.	MISCELLANEOUS	MISC.
BOTTOM	BOT.	NUMBER	No.
BOTTOM LOWER LAYER	BLL	NOT TO SCALE	N.T.S.
BOTTOM UPPER LAYER	BUL	ON CENTER	o/c (lower case)
BETWEEN	BET.	OUTSIDE FACE	O.F.
BLOCK	BLK.	OUT TO OUT	O/O
BUILDING	BLDG.	OUTSIDE DIAMETER	O.D.
BENCH MARK	B.M.	OPENING	OPG.
BEAM	BM.	OPPOSITE	OPP.
BEARING	BRG.	ORIGINAL	ORIG.
BACK TO BACK	B/B	OPEN WEB STEEL JOIST	OWSJ
BY (Between dims)	x (lower case)	PAINT	PT.
CENTERLINE	CL	PLATE	PL.
CAST IN PLACE	C.I.P.	PLYWOOD	PLYWD.
CONCRETE MASONRY UNIT	C.M.U.	PRELIMINARY	PRELIM.
CONSTRUCTION JOINT	C.J.	PRESSURE TREATED	P.T.
COMPLETE WITH	C/W	PROJECTION	PROJ.
COLUMN	COL.	REINFORCE WITH	R/W
CONCRETE	CONC.	REINFORCING	REINF.
CONTINUOUS	CONT.	REQUIRED	REV.
DEAD LOAD	D.L.	REVISION	REQ'D
DOWN	DN.	SECTION	SECT.
DRAWING	DWG.	SHEET	SHT.
DOWEL	DWL.	SIMILAR	SIM.
EACH	EA.	SPECIFICATION	SPEC.
EACH FACE	E.F.	SPECIAL COATING	SP. COATG.
EXPANSION JOINT	EXP. J.	STAINLESS STEEL	S.S.
EACH WAY	E.W.	STANDARD	STD.
ELEVATION	EL.	STIFFENER	STIFF.
ELECTRICAL	ELEC.	STIRRUP	STIRR.
EQUAL	EQ.	STRUCTURAL	STRUCT.
EQUIPMENT	EQUIPT.	SYMMETRICAL	SYM.
EXISTING	EXIST.	THICK	THK.
EXPANSION	EXP.	TOP OF	T.O.
EXTERIOR	EXT.	TOP LOWER LAYER	TLL
FACE TO FACE	F. to F.	TOP UPPER LAYER	TUL
FACE OF CONCRETE	F.O.C.	TYPICAL	TYP.
FINISH	FIN.	UNLESS NOTED	U/N
FIRE RATING	F.R.	VERTICAL	VERT.
FIBERGLASS REINFORCED PLASTIC	FRP.	WIND LOAD	W.L.
FOUNDATION	FDN.	WITH	W/
FOOTING	FTG.		
GALVANIZE	GALV.		
HANGER	HGR.		
HOLLOW CORE	HC.		
HOLLOW STRUCTURAL STEEL	HSS		
HORIZONTAL	HORIZ.		
HEIGHT	HT.		
INSIDE FACE	I.F.		
INSIDE DIAMETER	I.D.		
INTERIOR	INT.		
KILO NEWTON	kN		
KNOCK-OUT BLOCK	K.O.		
LIVE LOAD	L.L.		

MISCELLANEOUS METALS - STEEL

1. ANGLE SECTIONS: CONFORMING TO CSA G40.21; TYPE W WITH A MINIMUM YIELD STRENGTH OF 300 MPa.
2. WELD TO CSA W59 BY FABRICATORS QUALIFIED TO CSA W47.7, IN DIVISION 2.
3. VERIFY ALL DIMENSIONS ON SITE PRIOR TO FABRICATION.
4. ISOLATE MISC. METALS FROM CONCRETE BY MEANS OF 2 COATS OF ALKALI RESISTANT BITUMINOUS PAINT.

SHOP DRAWING SUBMISSIONS

1. CONCRETE MIX DESIGN AS PER CSA A23.1, SIGNED & SEALED BY MIX DESIGN ENGINEER, REGISTERED IN THE PROVINCE OF MANITOBA.
2. INSULATED CONCRETE FORM (ICF) LAYOUT AND PRODUCT CUT SHEET.
3. CONCRETE REINFORCEMENT SHOP DRAWING.
4. MISCELLANEOUS METALS SHOP DRAWINGS SIGNED & SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.

PROJECT

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REGISTRATION



ISSUE/REVISION

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0	2016.09.02	ISSUED FOR CONSTRUCTION

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SHEET TITLE

GENERAL NOTES

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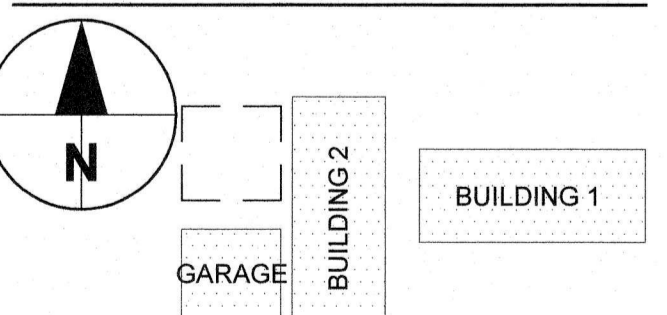
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0	2016.09.02	ISSUED FOR CONSTRUCTION

KEY PLAN



PROJECT NUMBER

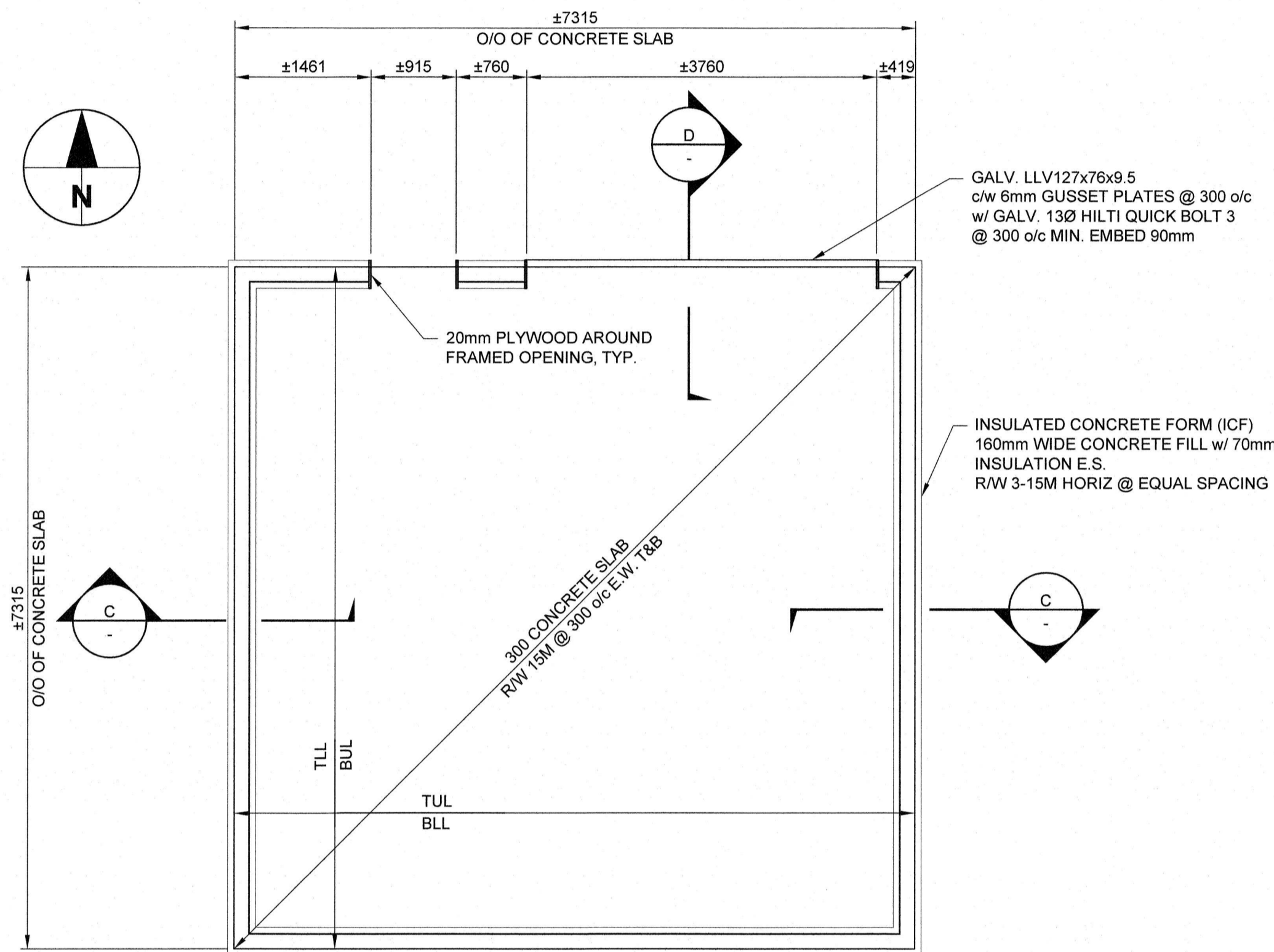
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SHEET TITLE

GARAGE FOUNDATION PLAN AND TYPICAL DETAILS

SHEET NUMBER

S102



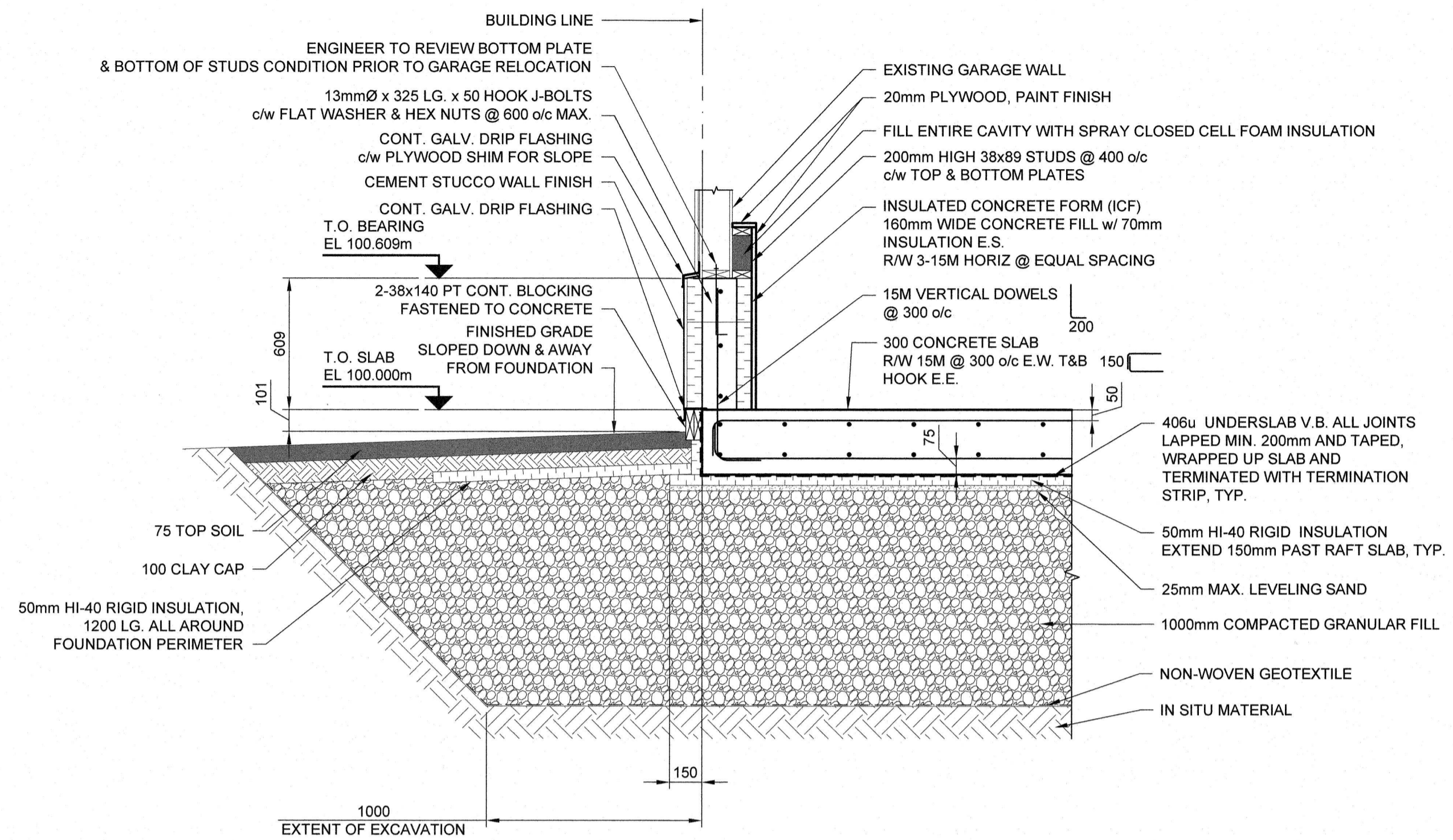
FOUNDATION PLAN

SLAB DESIGN LOADS
 DEAD LOAD: SELF WEIGHT OF CONCRETE
 LIVE LOAD: 7.2 kPa

Scale 1:50

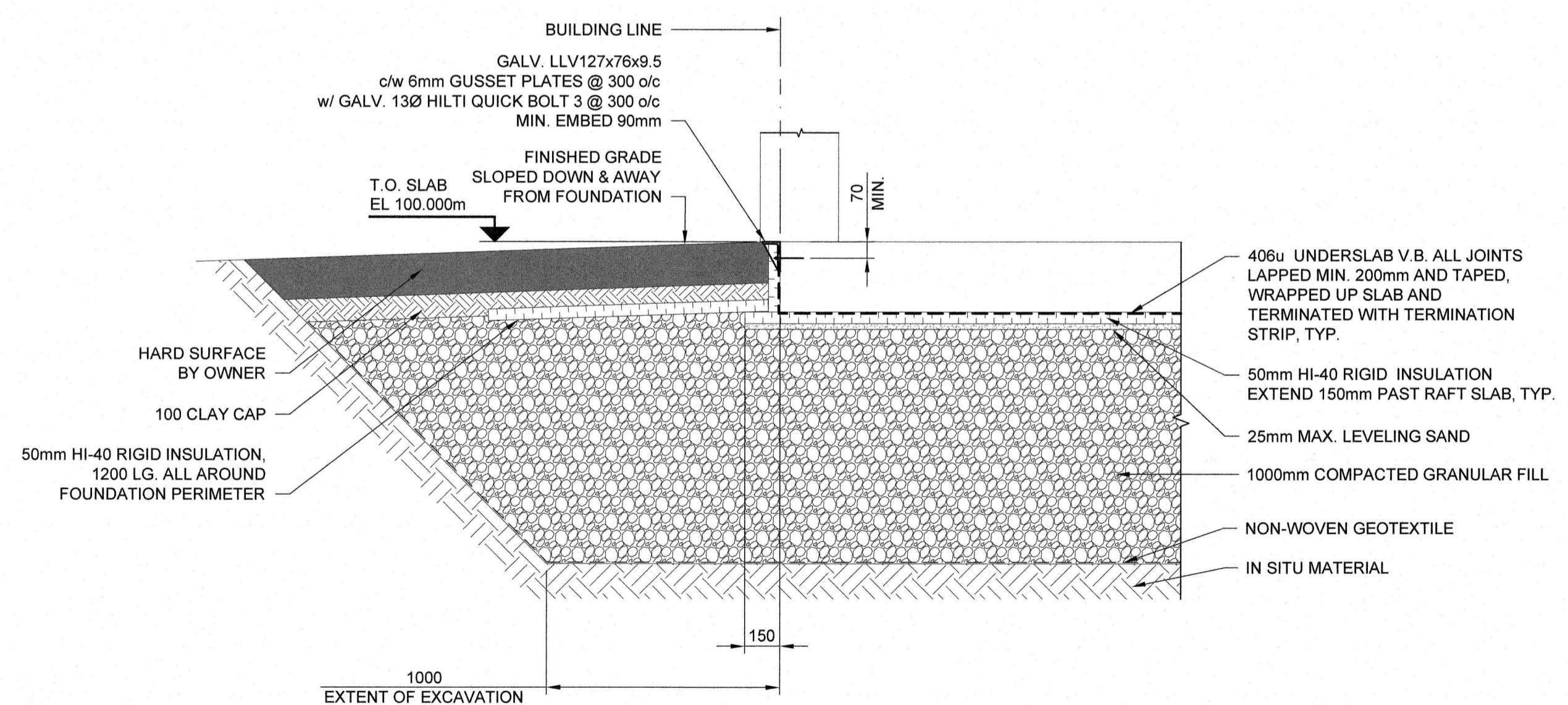
DRAWING NOTES

- ALL DIMENSIONS NOTED AS ± ARE EXISTING AND MUST BE SITE VERIFIED PRIOR TO INSTALLATION OF (ICF) INSULATED CONCRETE FORMS.
- EXISTING GARAGE RELOCATED ON NEW ICF FOUNDATION.



C | TYPICAL ICF GARAGE WALL DETAIL

Scale 1:20



D | TYPICAL OVERHEAD DOOR OPENING/SLAB DETAIL

Scale 1:20