GENERAL NOTES

A. GENERAL INFORMATION

- 1. READ STRUCTURAL DOCUMENTS IN CONJUNCTION WITH CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DOCUMENTS.
- 2. CONTRACTOR TO BE RESPONSIBLE FOR CHECKING SITE CONDITIONS AGAINST DOCUMENTS, BEFORE PROCEEDING WITH THE WORK, AND REPORT DISCREPANCIES TO THE CONSULTANT.
- 3. CONTRACTOR TO PROVIDE LABOUR, MATERIALS, AND EQUIPMENT TO COMPLETE ALL STRUCTURAL WORK INDICATED.
- CARRY OUT CONSTRUCTION OPERATIONS, INCLUDING THE INSTALLATION OF TEMPORARY GUYING AND SHORING REQUIRED, ENSURING THAT THE EXISTING STRUCTURE OR MEMBERS ALREADY ERECTED ARE NOT LOADED IN EXCESS OF THEIR SAFE LOAD CARRYING CAPACITY.
- STRUCTURAL DOCUMENTS DO NOT NECESSARILY SHOW ALL OPENINGS AND SLAB VARIATIONS REQUIRED. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR THE EXACT LOCATION, NUMBER, AND SIZE OF OPENINGS, TRENCHES, PITS, SUMPS, SLEEVES, AND DEPRESSIONS. PROVIDE STRUCTURAL FRAMING AT THESE LOCATIONS IN ACCORDANCE WITH THE APPLICABLE TYPICAL DETAIL.

B. REFERENCE STANDARDS/CODES AND ACTS

- CONFORM WITH THE 2012 BUILDING CODE (ONTARIO REGULATION 350/12), AND ANY APPLICABLE ACTS OF ANY AUTHORITY HAVING JURISDICTION, AND THE FOLLOWING:
- 1.1. CAN/CSA A23.1 CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION.
- 1.2. CAN/CSA A23.2 METHODS OF TEST FOR CONCRETE.
- 1.3. CAN/CSA A23.3 DESIGN OF CONCRETE STRUCTURES.
- 1.7. RSIC REINFORCING STEEL INSTITUTE OF CANADA (RSIC), MANUAL OF STANDARD PRACTICE.
- 1.8. 086 ENGINEERING DESIGN IN WOOD (LIMIT STATES DESIGN).
- 1.9. CSA G30.18 CARBON STEEL BARS FOR CONCRETE REINFORCING.
- 2. ALL STANDARDS AND PUBLICATIONS REFERENCED BY THE STANDARDS NOTED
- ABOVE ARE TO APPLY.
- 3. WHERE THERE ARE DIFFERENCES BETWEEN THE DOCUMENTS AND THE STANDARDS, CODES AND ACTS, THE MOST STRINGENT SHALL GOVERN.

<u>D. MATERIALS</u>

- PROVIDE ONLY NEW STRUCTURAL MATERIALS IN ACCORDANCE WITH THE REFERENCE STANDARDS AND THE FOLLOWING, UNLESS OTHERWISE NOTED.
 - 1.1. CONCRETE:
 - 1.1.1. EXPOSED TO WEATHER: F'c = 35 MPa AT 28 DAYS, SLUMP 80mm (3"), EXPOSURE CLASS C-1, W/C RATIO 0.40, AIR CONTENT 5%-8%, AND CONCRETE TO HAVE A MINIMUM CEMENTING MATERIAL CONTENT OF 320 kg/m³.
 - 1.2 REINFORCING STEEL: CONFORM TO CSA G30 SERIES, GRADE 400.
 - 1.3 STRUCTURAL BOLTS, NUTS AND WASHERS: CONFORM TO ASTM A325M.
 - 1.4 SAWN LUMBER: SPRUCE PINE FIR (S—P—F), NO. 1/2 GRADE OR BETTER UNLESS NOTED ON DRAWINGS. CONFORM TO CSA—0141. ALL EXTERIOR LUMBER TO BE PRESSURE TREATED.

E. EXECUTION

- 1. FOUNDATIONS
 - 1.1. FOUND ALL FOOTINGS ON SOIL CAPABLE OF SUSTAINING A MINIMUM ULTIMATE LIMIT STATES/ SERVICE LIMIT STATES BEARING STRESS (ULS/SLS) OF 75 kPa / 50 kPa.
 - 1.2. FOUND ALL FOOTINGS WHICH WILL BE EXPOSED TO FROST ACTION IN THE COMPLETED BUILDING A MINIMUM OF 1200 mm (4'-0") BELOW FINISHED GRADE.
 - 1.3. DO NOT EXCEED A RISE OF 7 IN A RUN OF 10 IN THE LINE OF SLOPE BETWEEN ADJACENT FOOTING EXCAVATIONS OR ALONG STEPPED FOOTINGS. FOR STEPPED FOOTINGS, USE STEPS NOT EXCEEDING 600 mm (2'-0") IN HEIGHT AND 1200 mm (4'-0") (MIN.) IN LENGTH.
 - 1.4. SOIL BEARING CAPACITY SPECIFIED MUST BE VERIFIED BY THE SOIL ENGINEER PRIOR TO THE PLACING OF FOOTINGS AND ANY NON-CONFORMANCE WITH THE SPECIFIED MINIMUM CAPACITIES MUST BE IMMEDIATELY REPORTED TO THE STRUCTURAL ENGINEERS.

2. CONCRETE

- 2.1. CONSTRUCTION JOINTS FOR WALLS, SLABS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE CONSTRUCTION. GENERALLY JOINTS IN SLABS SHALL BE AT RIGHT ANGLES TO THE SPANS, AT MID—SPAN IF POSSIBLE AND BE CLEAR OF SUPPORTS AND POINT LOADS.
- 2.2. WHEN ATMOSPHERIC TEMPERATURE IS AT OR BELOW 5°C OR WHEN THERE IS A POSSIBILITY OF IT FALLING TO THAT LIMIT, PLACE CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF CAN/CSA A23.1 "COLD WEATHER CONCRETING" AND ACI 306 "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING". WHEN ATMOSPHERIC TEMPERATURE IS AT OR ABOVE 27°C PLACE CONCRETE IN ACCORDANCE WITH CAN/CSA A23.1 "HOT WEATHER CONCRETING" AND ACI 305 "RECOMMENDED PRACTICES FOR HOT WEATHER CONCRETING"."

5. TIMBER FRAMING

- 5.1. ALL FRAMING, BRIDGING, NAILING, PROTECTION, HARDWARE AND OTHER FRAMING DETAILS ARE TO BE IN ACCORDANCE WITH PART 9 OF THE ONTARIO BUILDING CODE, LATEST EDITION.
- 5.2. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE STANDARD SIMPSON STRONG TIE HARDWARE OR APPROVED EQUIVALENT FOR ALL JOIST HANGERS, BEAM HANGERS, BEAM SEATS, POST ANCHORS, ETC.
- 5.3. MEMBERS SHALL BE ALIGNED LEVEL AND PLUMB, WITHIN A TOLERANCE OF 1 IN 500.
- 5.4. MAKE ADEQUATE PROVISIONS FOR ERECTION STRESSES AND FOR SUFFICIENT TEMPORARY BRACING TO KEEP THE STRUCTURAL FRAME PLUMB AND IN TRUE ALIGNMENT UNTIL THE COMPLETION OF THE ENTIRE FRAMING INCLUDING INSTALLATION OF THE FLOOR AND WALL SHEATHING.
- 5.5. FRAME AROUND ALL OPENINGS WITH DOUBLE HEADERS AND TRIMMERS NAILED TOGETHER WITH TWO ROWS OF 89 MM (3-1/2 ") SPIRAL NAILS AT 200 MM C/C (8" C/C) STAGGERED UNLESS NOTED OTHERWISE. DO NOT SPLICE MEMBERS BETWEEN SUPPORTS.
- 5.6. ALL BUILT UP BEAMS TO BE NAILED TOGETHER WITH TWO ROWS OF 89 MM (3-1/2 ") SPIRAL NAILS AT 200 MM (8") C/C, STAGER ROWS TOP AND BOTTOM. DO NOT SPLICE MEMBERS BETWEEN SUPPORTS.
- 5.7. PROVIDE SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT AT ALL CANTILEVERED CONDITIONS.
- 5.8. 5.16 PROVIDE 38x38 (2"x2") DIAGONAL CROSS BRIDGING AT MAXIMUM 2,100 MM (6'-11") C/C UNLESS NOTED OTHERWISE, FOR ALL SAWN JOIST LOCATIONS.
- 5.17 PROVIDE MINIMUM BEARING OF 50 MM (2") FOR ALL JOISTS.
- 5.18 PROVIDE MINIMUM BEARING OF 100 MM (4") FOR ALL BEAMS.
- 5.19 NO SAWN LUMBER SHALL BE NOTCHED OR DRILLED IN THE FIELD WITHOUT THE PERMISSION OF THE CONSULTANT.

4. ALTERATIONS AND/OR CONNECTIONS TO EXISTING STRUCTURE

- 4.1. INSPECT THE EXISTING BUILDING AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS.
- 4.2. PRIOR TO PROCEEDING WITH THE WORK, DETERMINE THE EXACT FOUNDING ELEVATIONS OF EXISTING FOOTINGS ADJACENT TO THE NEW WORK. REPORT THESE FINDINGS TO THE CONSULTANT
- 4.3. MAKE GOOD THE EXISTING WORK.

F. QUALITY CONTROL

1. GENERAL

- 1.1 IMPLEMENT A SYSTEM OF QUALITY CONTROL TO ENSURE THAT THE MINIMUM STANDARDS SPECIFIED HEREIN ARE ATTAINED.
- BRING TO THE ATTENTION OF THE CONSULTANT ANY DEFECTS IN THE WORK OR DEPARTURES FROM THE CONTRACT DOCUMENTS, WHICH MAY OCCUR DURING CONSTRUCTION. THE CONSULTANT WILL DECIDE UPON CORRECTIVE ACTION AND GIVE RECOMMENDATIONS IN WRITING.
- 1.3 THE CONSULTANT'S GENERAL REVIEW DURING CONSTRUCTION AND INSPECTION AND TESTING BY INDEPENDENT INSPECTION AND TESTING AGENCIES REPORTING TO THE CONSULTANT ARE BOTH UNDERTAKEN TO INFORM THE OWNER/CLIENT OF THE CONTRACTOR'S PERFORMANCE AND SHALL IN NO WAY AUGMENT THE CONTRACTOR'S QUALITY CONTROL OR RELIEVE THE CONTRACTOR OF CONTRACTUAL RESPONSIBILITY.

2. NOTIFICATION

2.1 PRIOR TO COMMENCING SIGNIFICANT SEGMENTS OF THE WORK, GIVE THE CONSULTANT AND INDEPENDENT INSPECTION AND TESTING COMPANIES APPROPRIATE NOTIFICATION (MINIMUM 24 HOURS) SO AS TO AFFORD THEM REASONABLE OPPORTUNITY TO REVIEW THE WORK. FAILURE TO MEET THIS REQUIREMENT MAY BE CAUSE FOR THE CONSULTANT TO CLASSIFY THE WORK AS DEFECTIVE.

INSPECTION AND TESTING

3.1. THE CONSULTANT WILL APPOINT AN INDEPENDENT INSPECTION AND TESTING COMPANY TO MAKE INSPECTIONS OR PERFORM TESTS AS THE CONSULTANT DIRECTS. THE INDEPENDENT INSPECTION AND TESTING COMPANIES SHALL BE RESPONSIBLE ONLY TO THE CONSULTANT AND SHALL MAKE ONLY SUCH INSPECTIONS OR TESTS AS THE CONSULTANT MAY DIRECT.

4. DEFECTIVE MATERIALS AND WORK

- 4.1. WHERE EVIDENCE EXISTS THAT DEFECTIVE WORK HAS OCCURRED OR THAT WORK HAS BEEN CARRIED OUT INCORPORATING DEFECTIVE MATERIALS, THE CONSULTANT MAY HAVE TESTS, INSPECTIONS OR SURVEYS PERFORMED, ANALYTICAL CALCULATIONS OF STRUCTURAL STRENGTH MADE, AND THE LIKE, IN ORDER TO HELP DETERMINE WHETHER THE WORK MUST BE CORRECTED OR REPLACED. TESTS, INSPECTIONS OR SURVEYS OR CALCULATIONS CARRIED OUT UNDER THESE CIRCUMSTANCES WILL BE MADE AT THE CONTRACTOR'S EXPENSE, REGARDLESS OF THEIR RESULTS, WHICH MAY BE SUCH THAT, IN THE CONSULTANT'S OPINION, THE WORK MAY BE ACCEPTABLE.
- 4.2. ALL TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2006 BUILDING CODE (ONTARIO REGULATION 350/06, EXCEPT WHERE THIS WOULD, IN THE CONSULTANT'S OPINION, CAUSE UNDUE DELAY OR GIVE RESULTS NOT REPRESENTATIVE OF THE REJECTED MATERIAL IN PLACE. IN THIS CASE, THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE STANDARDS GIVEN BY THE CONSULTANT.
- 4.3. MATERIALS OR WORK, WHICH FAIL TO MEET SPECIFIED REQUIREMENTS, MAY BE REJECTED BY THE CONSULTANT WHENEVER FOUND AT ANY TIME PRIOR TO FINAL ACCEPTANCE OF THE WORK REGARDLESS OF PREVIOUS INSPECTION. IF REJECTED, DEFECTIVE MATERIALS OR WORK SHALL BE PROMPTLY REMOVED AND REPLACED OR REPAIRED TO THE SATISFACTION OF THE CONSULTANT, AT NO EXPENSE TO THE OWNER

KEY PLAN



LEGEND:



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1	ISSUED FOR PERMIT	OCT. 2, 2017
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CLIENT:

KEVIN & ANNE-MARIE TICE 3077 LAKESHORE RD.

PROJECT TITLE:

LIST OF STRUCTURAL DRAWINGS

GENERAL NOTES

TYPICAL DETAILS

SECTIONS AND DETAILS

REAR DECK FOUNDATION AND FRAMING PLANS

SHEET TITLE

SHEET No.

S1.01

S1.02

S2.01

S4.01

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SEFERIAN DESIGN GROUP

761 Brant Street, Suite 202

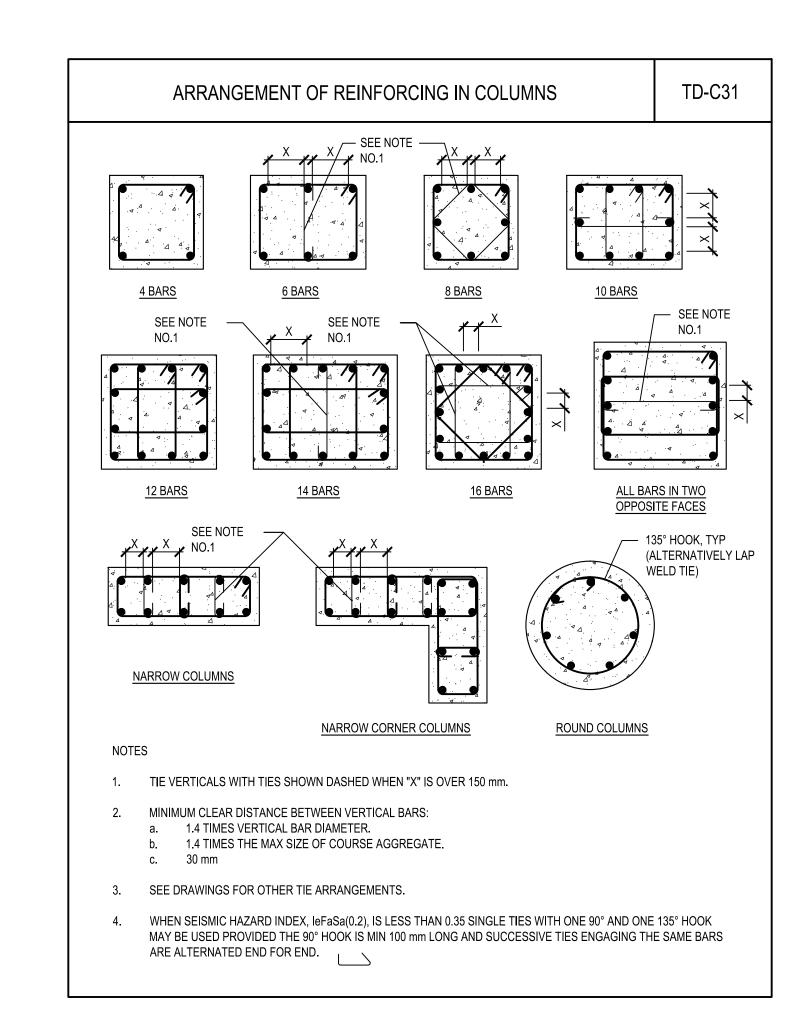
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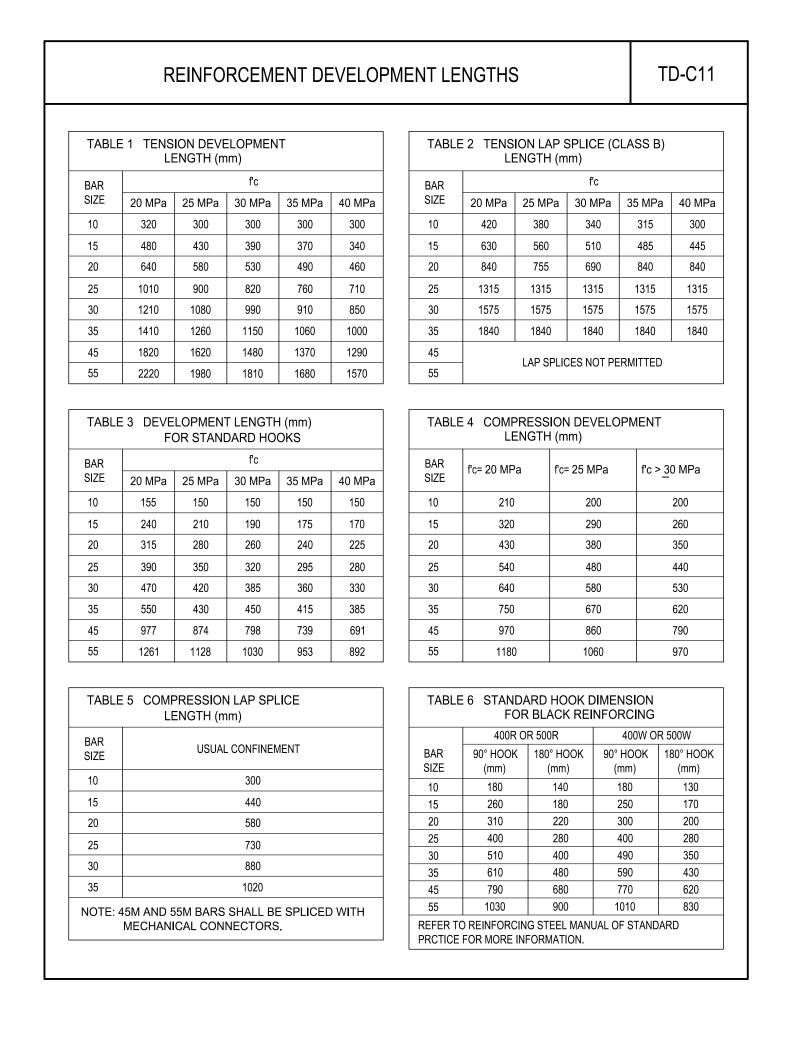
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GENERAL NOTES

L No:

STRUCTURAL ABBREVIATIONS					TD-G01	
A BOLT	ANCHOR BOLT	E-W	EAST WEST	NTS	NOT TO SCA	
ADJ	ADJUSTABLE	EW	EACH WAY	OF	OUTSIDE FA	NCE
AESS	ARCHITECTURAL EXPOSED	EXT	EXTERIOR	OPEN	OPENING	
	STRUCTURAL STEEL	fc	28 DAYS CONCRETE	OWSJ		STEEL JOIST
AFF	ABOVE FINISHED FLOOR		COMPRESSIVE STRENGTH	Pf		E (FACTORED)
AIFB	ASPHALT IMPREGNATED	FDN	FOUNDATION	PC	PRECAST	
	FIBREBOARD	FF	FAR FACE	PL BL =	PLATE	
ALT	ALTERNATE	FIN	FINISHED	PLF		R LINEAR FOOT
ARCH	ARCHITECTURAL	FL	FLOOR	PROJ	PROJECTIO	
ASL	ADDITIONAL ACCUMULATED	ft FTG	FOOTING	PSF PT		R SQUARE FOOT
@	SNOW LOAD AT		FOOTING YIELD STRENGTH	RD	PRESSURE ROOF DRAII	
@ B, BOTT	BOTTOM	Fy GA	GAUGE	Rf		FACTORED)
B/B	BACK TO BACK	GALV	GALVANIZED	RAD	RADIUS	I ACTORED)
BEW	BOTTOM EACH WAY	GEN	GENERAL	REINF		D, REINFORCEMENT
BH	BOREHOLE	HEF	HORIZONTAL EACH FACE	REF	REFERENCE	
BLL	BOTTOM LOWER LAYER	Hf	HORIZONTAL FORCE (FACTORED)	RE	RIGHT END	_
BLDG	BUILDING	HH	HOOK EACH END	REQ'D	REQUIRED	
BM	BEAM	HIF	HORIZONTAL INSIDE FACE	REV	REVISION, F	REVISED
BPL	BEARING/BASE PLATE	HOF	HORIZONTAL OUTSIDE FACE	R/W	REINFORCE	
BRDG	BRIDGING	H, HORZ	HORIZONTAL	SDF	STEP DOWN	I FOOTING
BUL	BOTTOM UPPER LAYER	HSC	HORIZONTALLY SLOTTED CONNECTION	SECT	SECTION	
С	CAMBER	HSS	HOLLOW STEEL SECTION	SIM	SIMILAR	
С	EPOXY COATED	IF	INSIDE FACE	SL	SLAB	
c/c, o/c	CENTRE TO CENTRE	IN	INCH(ES)	SOG	SLAB ON GF	
CA, CB	COLUMN ABOVE,	INT	INTERIOR	SPDD		OCTOR DRY DENSITY
CANIT	COLUMN BELOW	JT	JOINT	ST	STRAIGHT	
CANT Cf	CANTILEVER	K K-ft	KIP, 1000 LBS KIP FEET	STIFF STIR	STIFFENER STIRRUP	
CJ	COMPRESSIVE FORCE (FACTORED) CONTROL JOINT		KILOGRAM(S)	STRUCT	STRUCTURA	V I
CL	CLEAR	kg KLF	KIPS PER LINEAR FOOT	STD	STANDARD	1 L
CL, Q	CENTRELINE	kN	KILONEWTON	SQ	SQUARE	
COL	COLUMN	kN-m	KILONEWTON METRE	T	TOP	
COMP	COMPOSITE	kN/m	KILONEWTON PER METRE	Tf		RCE (FACTORED)
CONC	CONCRETE	kPa	KILOPASCAL	TEMP		, TEMPERATURE
CONT	CONTINUOUS	KSF	KIPS PER SQUARED FOOT	TEW	TOP EACH \	VAY
C/W	COMPLETE WITH	KSI	KIPS PER SQUARED INCH	TJ	TIE JOIST	
DEMO	DEMOLITION	L	SINGLE ANGLE	TLL	TOP LOWER	RLAYER
DET	DETAIL	LE	LEFT END	TMf		MOMENT (FACTORED)
DIA, Ø	DIAMETER	LG	LONG	TOD	TOP OF DEC	
DIAG	DIAGONAL	LL	LIVE LOAD, LOWER LAYER	TOS	TOP OF STE	
DIM	DIMENSION	LLH	LONG LEG HORIZONTAL	TRANS	TRANSVERS	
DL DP	DEAD LOAD	LLV m	LONG LEG VERTICAL METRE	TUL TYP	TOP UPPER	LATER
DP DWG(S)	DEEP DRAWING(S)	m MC ▶	METRE MOMENT CONNECTION	UL	TYPICAL UPPER LAY	=R
DWG(S) DWL(S)	DOWEL(S)	IVIC	(FULL MOMENT UNLESS NOTED)	U/N		TED OTHERWISE
DWL(3)	DOWN DOWN	MECH	MECHANICAL	U/S	UNDERSIDE	
EA	EACH	Mf	MOMENT (FACTORED)	V, VERT	VERTICAL	
EE	EACH END	ML	MIDDLE LAYER	Vf		AR FORCE (FACTORED)
EF	EACH FACE	mm	MILLIMETRE	VBF		RACED FRAME
ELEC	ELECTRICAL	MPa	MEGAPASCAL	VEF	VERTICAL E	
EL	ELEVATION	Mxf	BENDING MOMENT	VIF	VERTICAL II	NSIDE FACE
ELEV	ELEVATOR		ABOUT x-x AXIS (FACTORED)	VOF	VERTICAL C	OUTSIDE FACE
EMBED	EMBEDMENT	Myf	BENDING MOMENT	VSC	VERTICALLY	SLOTTED CONNECTION
EQ	EQUAL		ABOUT y-y AXIS (FACTORED)	W	WIDE FLAN	
ES	EACH SIDE	NF	NEAR FACE	WT	•	RUCTURAL TEE
EX, EXIST	EXISTING	NIC	NOT IN CONTRACT	WWF		BRIC OR WELDED WIDE FLANGE
EJ, EXP JT	EXPANSION JOINT	N-S	NORTH-SOUTH	W.P.	Working Po	INT









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CLIENT

KEVIN & ANNE-MARIE TICE 3077 LAKESHORE RD.

PROJECT TITLE:

3077 LAKESHORE RD. BURLINGTON, ON

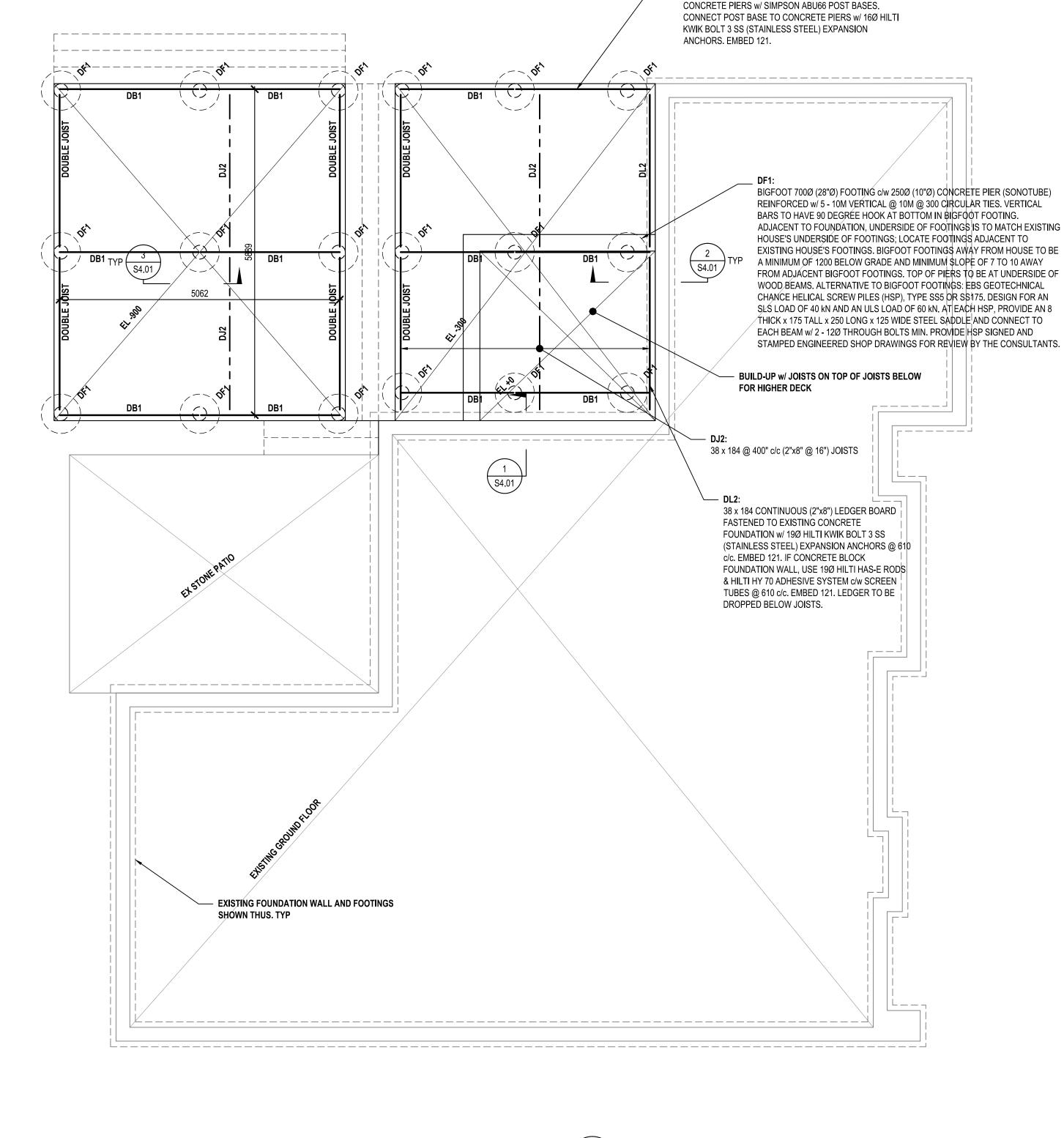


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SHEET TITLE:

TYPICAL DETAILS

04.00	SCALE:	AS SHOWN
S1.02	PROJECT NO:	16-034
	DRAWN BY:	CN
	DESIGN BY:	CN
	CHECKED BY:	CN
	SHEET No:	
	NORTH	



3 PLY 38 x 235 BUILT-UP BEAM (3 - 2"x10"). BEAMS TO BE DROPPED BELOW JOISTS. CONNECT WOOD BEAMS TO

REAR DECK FOUNDATION AND FRAMING PLAN 1:50 S2.01

NOTES:

1. TOP OF EXISTING INTERIOR GROUND FLOOR IS TO BE +0 BELOW EXISTING GROUND FLOOR ELEVATION +0. AREAS CROSS AND NOTED ARE TO BE READ FROM THE GROUND FLOOR ELEVATION +0. REFER TO LANDSCAPING DRAWINGS FOR FINAL TOP OF DECK ELEVATIONS.

2. LIVE LOADS ARE AS FOLLOWS, UNLESS NOTED OTHERWISE ON PLAN:

DECK 1.90 kPa

3. DEAD LOADS ARE:

 DECKING
 0.20 kPa

 STRUCTURE
 0.30 kPa

 MISC.
 0.30 kPa

- 4. REFER TO GENERAL NOTES FOR SOIL BEARING CAPACITY.
- 5. ALL WOOD FRAMING TO BE SPF (SPRUCE-PINE-FIR) No.1/No.2 AND PRESSURE TREATED.
- 6. OWNER TO CHOOSE DECK BOARDS (38 (1½") PLASTIC OR WOOD BOARDS).
- REFER TO ONTARIO BUILDING CODE SUPPLEMENTARY STANDARD SB-7 FOR GUARDS FOR HOUSING AND SMALL BUILDINGS. CONTRACTOR TO CHOOSE AND INSTALL GUARDS AS PER GUIDELINES.

KEY PLAN



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REAR DECK FOUNDATION AND FRAMING PLAN

SCALE: AS SHOWN

PROJECT NO: 16-034

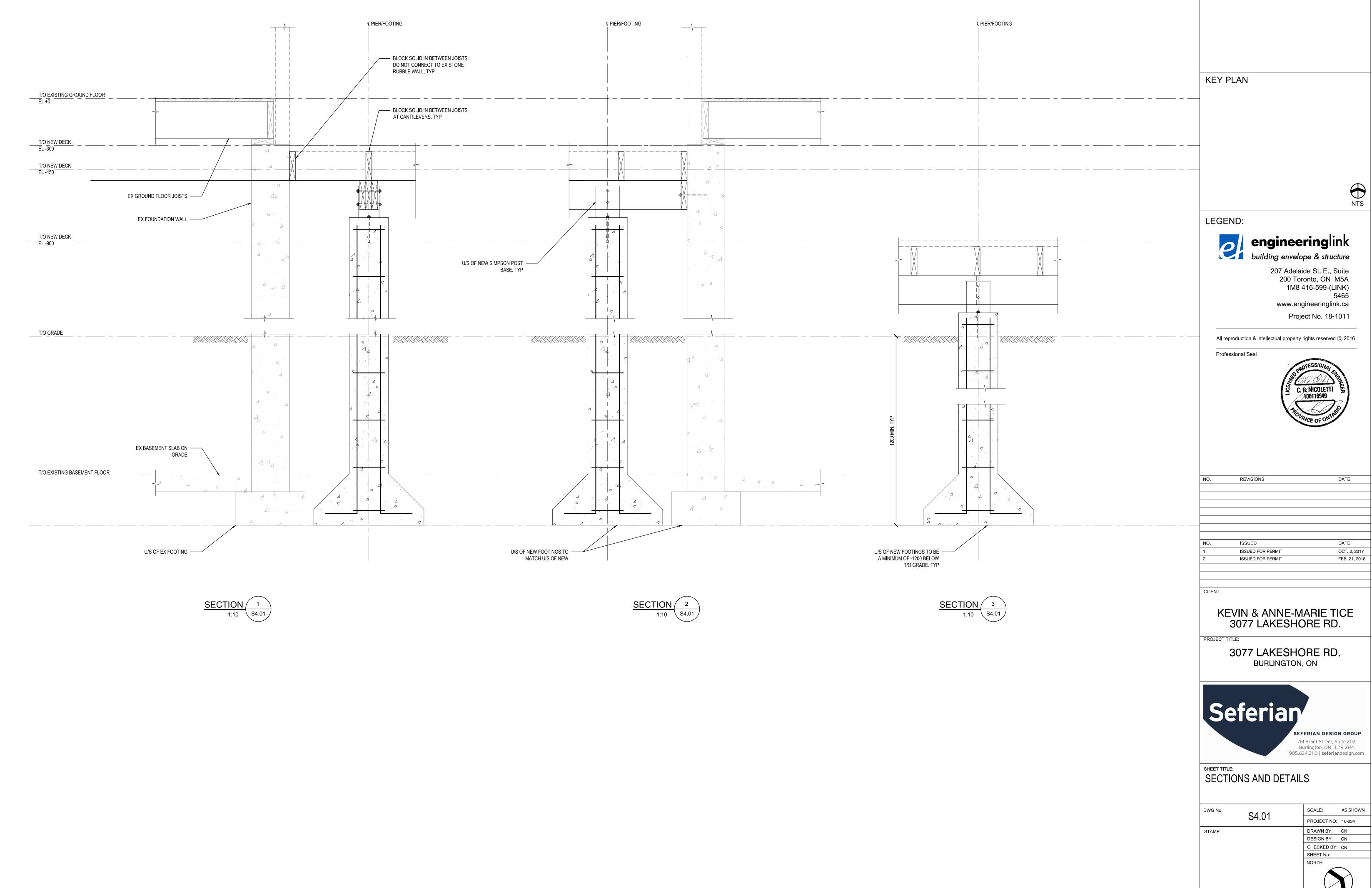
DRAWN BY: CN

DESIGN BY: CN

CHECKED BY: CN

SHEET NO:

NORTH



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IINT DATE: