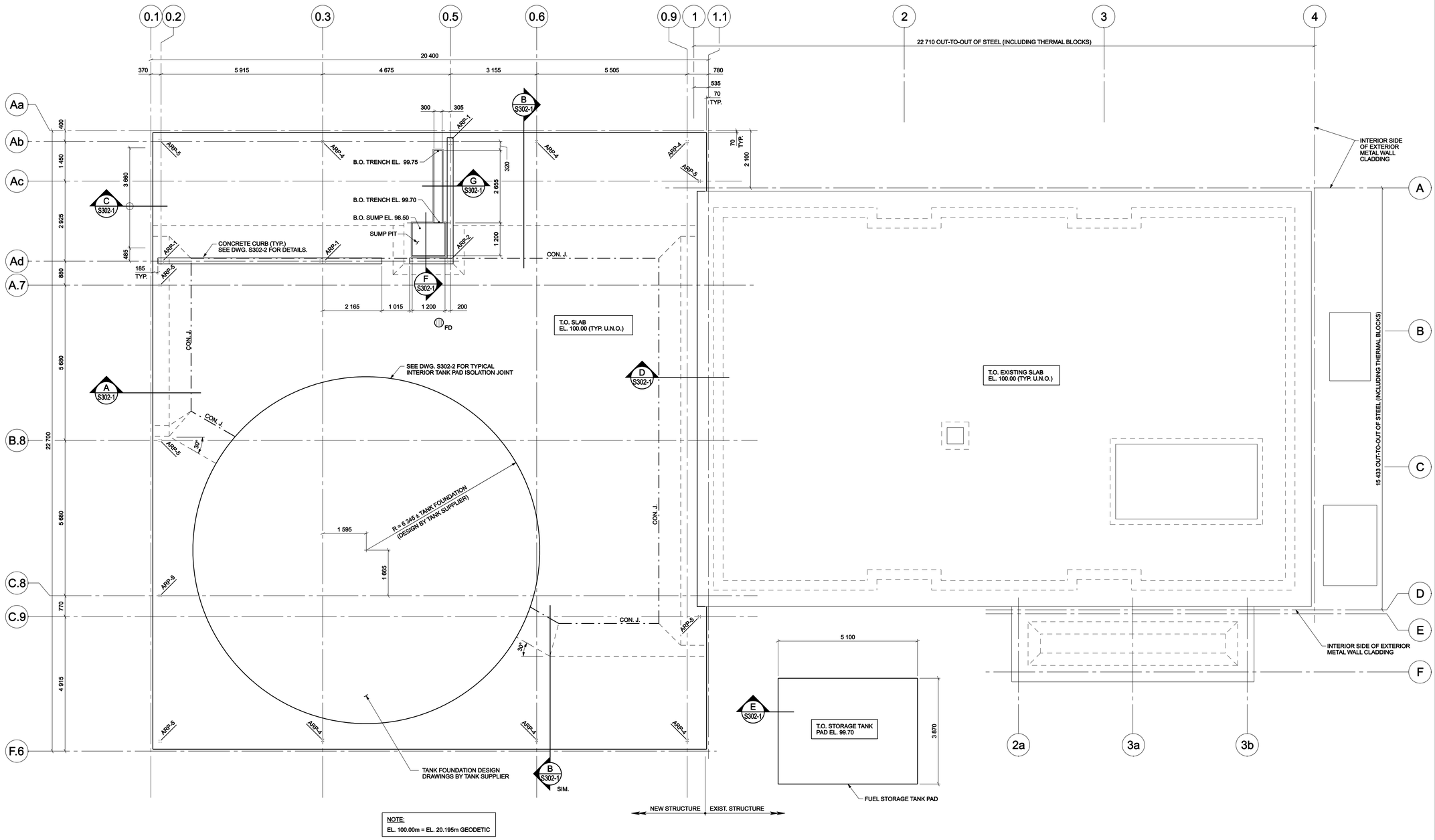

NOTE:
EL. 100.00m = EL. 20.195m GEODETIC

CLASS 'B' BAR LAP TABLE FOR 35 MPa CONCRETE

MARK	LAP LENGTH (mm)	
	TOP	BOTTOM
10M	420	320
15M	620	480
20M	830	640
25M	1290	990
30M	1550	1190

STRUCTURAL DESIGN CRITERIA (BUILDING EXTENSION)

ROOF DEAD LOADS:

- METAL ROOF PANEL	= 0.10 kPa
- INSULATION	= 0.20 kPa
- METAL LINER	= 0.10 kPa
- M & E ALLOWANCE	= 0.50 kPa
- MISCELLANEOUS	= 0.25 kPa
TOTAL ROOF DEAD LOAD (STRUCTURAL STEEL NOT INCLUDED)	= 1.15 kPa

SNOW LOADS:

- Ss = 3.9 kPa
- Sr = 0.2 kPa
- Is = 1.25
- Cb = 0.80
- Cw = 1.0
- Cs = 1.0
- Ca = 1.0

WIND:

- q 1/10 = 1.00 kPa
- q 1/50 = 1.20 kPa
- Iw = 1.25
- Ce = BASED ON 'OPEN TERRAIN'
- Cgi = CATEGORY 2 (-0.45 TO 0.3)
- Cp Cg: OVERALL BUILDING - PER FIG. I-7
  WALLS - PER FIG. I-8
  ROOF - PER FIG. I-9

SEISMIC:

- Sa (0.2) = 0.438
- Sa (0.5) = 0.216
- Sa (1.0) = 0.096
- Sa (2.0) = 0.031
- PGA = 0.240
- SITE CLASS = C
- I_E = 1.5

CODES AND STANDARDS:

CONCRETE DESIGN: TO CSA A23.3-04.

STEEL DESIGN : TO CAN/CSA S16-09.

BUILDING CODE: NATIONAL BUILDING CODE OF CANADA 2010.

BUILDING STRUCTURE IMPORTANCE CATEGORY = 'POST DIASTER'

LEGEND

A.R.	- ANCHOR ROD
ARP	- ANCHOR ROD PATTERN
ALT.	- ALTERNATE
BOTT.	- BOTTOM
c/c	- CENTRE TO CENTRE
CL.	- CLEAR
C.J.	- CONTROL JOINT
CON.J.	- CONSTRUCTION JOINT
CONT.	- CONTINUOUS
c/w	- COMPLETE WITH
DIA.	- DIAMETER
E.F.	- EACH FACE
EQ. SPC.	- EQUAL SPACING
EL.	- ELEVATION
EMBED.	- EMBEDMENT
E.W.	- EACH WAY
EXT.	- EXTERIOR
F.D.	- FLOOR DRAIN
F.P.	- FLAT PLATE
FTG.	- FOOTING
GALV.	- GALVANIZED
HK'S	- HOOKS
INT.	- INTERIOR
Lg.	- LONG
MAX.	- MAXIMUM
MIN.	- MINIMUM
P/T	- PRESSURE TREATED
REINF.	- REINFORCING
SIM.	- SIMILAR
SPC.	- SPACED
S.S.	- STAINLESS STEEL
STD.	- STANDARD
T.O.	- TOP OF
THK.	- THICK
TYP.	- TYPICAL
U.N.O.	- UNLESS NOTED OTHERWISE
w/	- WITH
WCJ	- WALL CONTROL JOINT
*	- CONFIRM DIMENSION w/ REVIEWED SHOP DRAWING PRIOR TO CONSTRUCTION

GENERAL NOTES

1. CONCRETE CLEAR COVER:
   TYPICAL (U.N.O.) = 50
2. CONCRETE STRENGTH AT 28 DAYS = 35 MPa MIN. U.N.O.
3. ALLOWABLE GROSS SOIL BEARING CAPACITY = 90 kPa (SLS). ULTIMATE SOIL BEARING CAPACITY = 165 kPa (ULS).
4. REINFORCING - 400 MPa MIN. YIELD.
5. EXCAVATIONS TO BE APPROVED BY A QUALIFIED PROFESSIONAL GEOTECHNICAL ENGINEER PRIOR TO FOOTING FORMWORK CONSTRUCTION.
6. ALL REINFORCING BAR LAP SPLICES TO BE CLASS 'B', UNLESS NOTED OTHERWISE.
7. CONCRETE DESIGN IN ACCORDANCE WITH CSA A23.3 - 04, DESIGN OF CONCRETE STRUCTURES.
8. CONFIRM ALL DIMENSIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPECIES TO ENGINEER/ARCHITECT.
9. ALL DIMENSIONS ARE IN MILLIMETRES, ALL ELEVATIONS ARE IN METRES.
10. EXCAVATION, BACKFILLING AND INSULATION: REFER TO CIVIL 'C' SERIES DRAWINGS.

No.	Issue	Date
1	60% REVIEW SUBMISSION	2013-MAR-08
2	ISSUED FOR TENDER	2013-APR-10
3	RELEASED FOR CONSTRUCTION	2013-JUNE-27

No.	Revision	Ckd. By	Date

Nunavut

PERMIT OF PRACTICE
EXP. SERVICES INC.
Signature
Date 2013/JUNE/27
PERMIT NUMBER: P483
NT/NU Association of Professional Engineers and Geoscientists

RELEASED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER M.J. McCUTCHEON LICENSEE NT/NU

Const. North

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Project Title
WASTEWATER TREATMENT PLANT UPGRADE PANGNIRTUNG, NU

Dwg. Title
FOUNDATION PLAN AND DETAILS

Project No. OTT-00204430-A0
Dwg. No. **S301-1**
Rev. No. 0
Scale 1:75
This drawing is not to be scaled

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