



GENERAL

- All WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL BUILDING CODE OF CANADA 2010, THE GNWT SAFETY ACT AND ENVIRONMENTAL REGULATIONS.
- ALL DIMENSIONS AND ELEVATIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
 VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD AND REPORT ANY DISCREPANCIES.

LOADING

- 1. ALL LOADS AND FORCES SHOWN ARE SERVICE (UNFACTORED) LOADS IN KILOPASCALS (kPa) AND KILONEWTONS (kN) UNLESS NOTED OTHERWISE.
- MAXIMUM SERVICE LOADS FOR THE PILES WAS OBTAINED FROM FIGURE 1, "PILE DESIGN FOR WATER TRUCK FILL PLANT, BAKER LAKE, NT. EBA CONSULTANTS, MAY 7, 2012.

B. ENVIRONMENTAL LOADS NBC 2010 BAKER LAKE, NU.

GROUND SNOW LOAD Ss = 2.9 KPA RAIN LOAD Sr = 0.2 KPA

ONE DAY RAIN 55 MM

UNIFORM SNOW S = 0.8(2.9)+0.2 = 2.52 KPA

WIND - BUILDING CATEGORY II

Q(1/50) HOURLY PRESSURE 0.54 KPA Q(1/10) HOURLY PRESSURE 0.42 KPA

4. SEISMIC

Sa(0.2) = 0.095, Sa(0.5) = 0.057, Sa(1.0) = 0.027, Sa(2.0) = 0.008, PGA = 0.036 FOUNDATION CLASS B, Fa=(0.8)

NBC 4.4.8.4.(6) IF S(0.2)=Fa*Sa(0.2) <= 0.12 THEN SEISMIC CAN BE NEGLECTED S(0.2)=0.076 < 0.12 THEREFORE SEISMIC NEED NOT BE CONSIDERED

- 5. MAXIMUM SERVICE LOADS FOR THE PILES WAS OBTAINED FROM FIGURE 1, "PILE DESIGN FOR WATER TRUCK FILL PLANT, BAKER LAKE, NT. EBA CONSULTANTS, MAY 7, 2012.
- THE FOUNDATION DESIGN IS BASED ON DRILLED ADFREEZE PILES WITH AN ALLOWABLE BOND CAPACITY OF 50 KPA INSTALLED A MINIMUM OF 1 M INTO BEDROCK WITH THE DETAIL PROVIDED.

MATERIALS

- . ALL PILES WILL BE HSS 141 O.D. X 6.35 WT GRADE 350W CLASS C
- 2. PLATES AND MISC STEEL WILL BE 300W











