

NA-CHO NYAK DUN FIRST NATION

GRANULAR PAD CONSTRUCTION FOR LEGION HALL SERVICE BUILDING

CONSTRUCTION NOTES

1. Work under this contract includes all labour, materials and equipment necessary to construct a granular pad for a new service building adjacent to the Legion Hall.
2. The work shall include the following:
 - a. Subcut to 1.0m below existing grade and extend 1.0m beyond the perimeter pad footing lines on all sides. All loose material shall be removed from the base or recompacted prior to engineered fill placement.
 - b. Backslopes of the excavation must be in compliance with OHS regulations and no steeper than 1:1 (vertical:horizontal)
 - c. The base of the excavation shall be inspected by the geotechnical consultant to ensure stable base has been achieved prior to engineered fill construction. If the base of the excavation is excessively wet and soft due to rainfall, a medium-weight geotextile shall be placed to act as a separator between the silt and sand subgrade soils and the engineered fill.
 - d. Prior to excavation, the contractor must obtain a final site plan and revised building footprint from the owner in order to accurately layout the limits for the subcut.
 - e. Excavated materials shall be disposed off-site to an approved location.
 - f. Engineered fill shall be comprised of non-frost susceptible 80mm pit run.
 - g. Place and compact the engineered fill in 200mm thick lifts, moisture conditioned to facilitate compaction, and compacted to a minimum of 98% of Standard Proctor Maximum Dry Density (SPMDD).
 - h. Extend the backfill up from a depth of 1.0m to an elevation consistent with the gravel pad that is supporting the adjacent Legion Hall.
 - i. Place 150mm of 20mm basecourse gravel over the insulation which shall consist of crushed basecourse gravel compacted to at least 98% SPMDD.
 - j. Prior to placing and compacting the final top layer of basecourse gravel, place 50mm of moisture resistant, backfillable insulation under the crush and extending 1.2m out from the outside edges of the pads on all sides.

- k. All materials to be compacted must be frost-free and remain frost-free until all compaction is completed.
- l. Granular fill materials should comply with the gradation specifications as follows:

Sieve Size (mm)	% Passing by Mass	
	80 mm Pit Run	20 mm Base Course Gravel
80	100	–
25	55 – 100	100
20	-	100
12.500	42 – 84	64 – 100
5.000	26 – 65	36 – 72
1.250	11 – 47	12 – 42
0.315	3 – 30	4 – 22
0.080	0 – 8	3 – 6

- m. Construct a shallow swale between the Legion Hall and Service Building site to direct surface drainage away from the foundation elements of both buildings.
3. Geotechnical information and recommendations are outlined in the Geotechnical Evaluation Report prepared by Tetra Tech EBA dated September 29, 2017.
 4. Quality control will be provided by Tetra Tech EBA which will include inspection of the excavation, plus materials and density testing. Provide at least 48hrs. prior notice to Tetra Tech EBA.

Prepared by;
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 October 01, 2017