

INSTALLATION SHEET

INSTALLATION CIRCULAR CORRUGATED STEEL PIPE INFRASTRUCTURE LINE See normative note E LEGEND Pavement layers design (by others) IN THE PAVEMENT III Earth Granular Material See normative note C OUT. DIA./2 Blue tape for drinking water pipes and green tape for sewer lines Min. Cover Backfilling of See normative note A (Refer to the the trench Corrugated steel pipe data sheet) Embedding See normative OUT. DIA note C Approved granular fill material shall be See normative compacted over any width in a lifts no greater note D than 300 mm to 95% standard proctor maximum dry density (SPMDD). See normative note B. Bedding (see table) Half-bedding not compacted or Refer to geotechnical soil report (by others) rearranged, applicable to pipes OUT, DIA./3 to confirm the minimum soil bearing capacity (kPa). with a nominal diameter of Subgrade to be protected from frost by others if = width of the trench bottom 750 mm and more required. Earth bottom of excavations to be dry (see table)

TRENCH EXCAVATION - SECTION VIEW

Project :	Pipe nominal dia.		Minimum bedding thickness		Width at the trench bottom L	
Date :	mn	n in	mm	in	mm	in
Information :	≤ 30	00 ≤ 12	150	6	D _{out.} +900	D _{out.} +36
	375 –	600 14 - 24	150	6	D _{out.} +900	D _{out.} +36
	750 - 1	1200 30 - 48	200	8	D _{out.} +1200	D _{out.} +48
	1400 -	1500 54 - 60	250	10	D _{out.} +1200	D _{out.} +48
NORMATIVE NOTES	> 10	00 ≥ 64	300	12	D _{out.} +1200*	D _{out.} +48*
	≥ 1600	00 ≥ 04	300	12	D _{out.} +900**	D _{out.} +36**

Based on BNQ 1809-300 standard (Figure 33)

- *If the trench is shored up
- A. Do not allow heavy equipment over the structure without adequate protection until minimum depth of cover is achieved.
- **If the trench is not shored up

undisturbed soil, free from any loose or organic

materials

- Granular M or equivalent must be used, refer to OPSS 1010 Material Specification for Aggregates Base, Subbase, Select Subgrade, & Backfill Material. В.
- Excavation slopes are not restricted to the slopes shown in the above figure. The excavation must comply with the provisions of the Safety Code for construction C. work, regarding the storage of equipment, the circulation of vehicles near an excavation and the stability of slopes.
- D. It is important to place and firmly pack the backfill material in this area to ensure adequate support for the pipe.
- In the area of 300 mm (12 in) below the infrastructure line the maximum particle size must be less than 150 mm (6 in).
- Dout, is the outside diameter of the pipe.
- For the first meter above the pipe, the only compaction equipment accepted is either the grooming machine, the vibrating plate or the vibratory drum roller, the total force applied of which must not exceed 50,000 N.

The professional engineer stamp is given to validate the adequacy of corrugated steel pipe wall thickness design due to factored live loads and dead loads, and does NOT include the soil / geotechnical design (Footing Design).