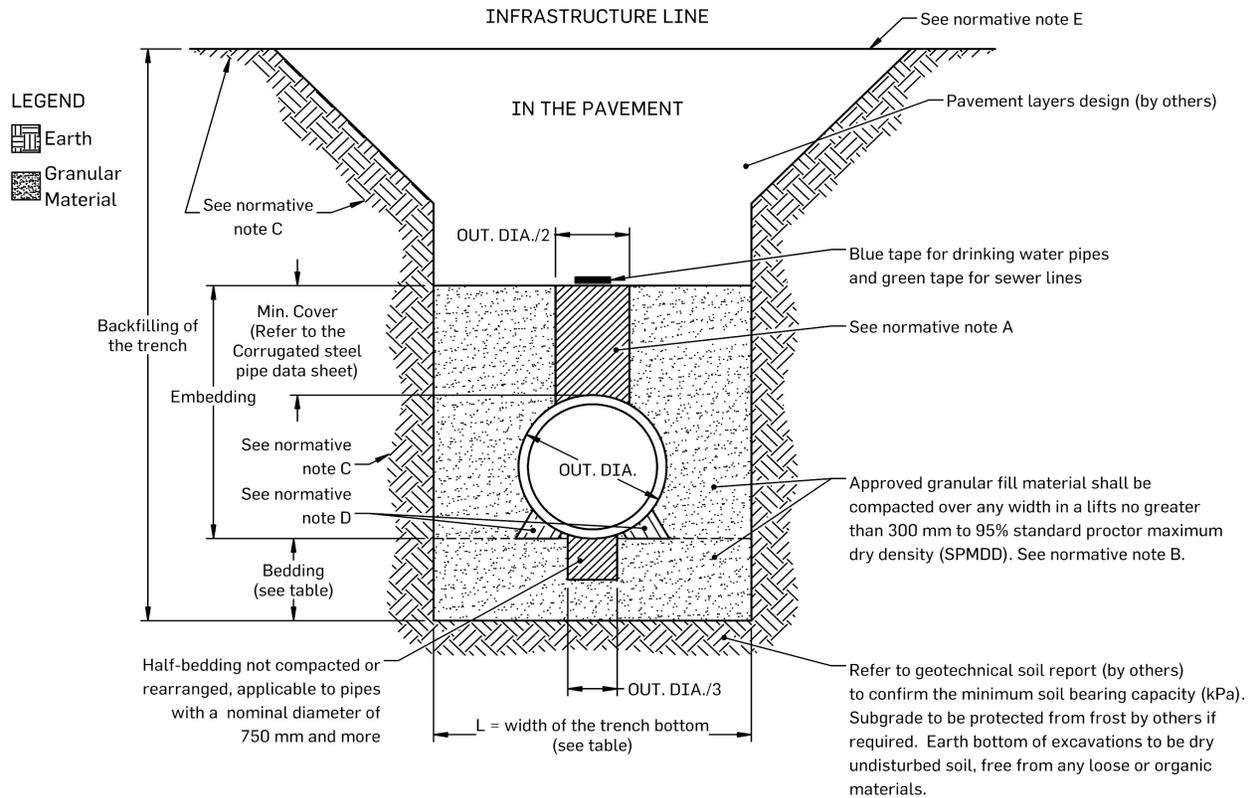


# INSTALLATION SHEET

## INSTALLATION CIRCULAR CORRUGATED STEEL PIPE



**TRENCH EXCAVATION - SECTION VIEW**

**Project :** \_\_\_\_\_

**Date :** \_\_\_\_\_

**Information :** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Pipe nominal dia.		Minimum bedding thickness		Width at the trench bottom L	
mm	in	mm	in	mm	in
≤ 300	≤ 12	150	6	D <sub>out.</sub> +900	D <sub>out.</sub> +36
375 – 600	14 - 24	150	6	D <sub>out.</sub> +900	D <sub>out.</sub> +36
750 - 1200	30 - 48	200	8	D <sub>out.</sub> +1200	D <sub>out.</sub> +48
1400 - 1500	54 - 60	250	10	D <sub>out.</sub> +1200	D <sub>out.</sub> +48
≥ 1600	≥ 64	300	12	D <sub>out.</sub> +1200*	D <sub>out.</sub> +48*
				D <sub>out.</sub> +900**	D <sub>out.</sub> +36**

**NORMATIVE NOTES**

Based on BNQ 1809-300 standard (Figure 33)

- 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
- B. Granular M or equivalent must be used, refer to OPSS 1010 Material Specification for Aggregates - Base, Subbase, Select Subgrade, & Backfill Material.
- C. 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 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.
- E. In the area of 300 mm (12 in) below the infrastructure line the maximum particle size must be less than 150 mm (6 in).
- F. D<sub>out.</sub> is the outside diameter of the pipe.
- G. 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).**