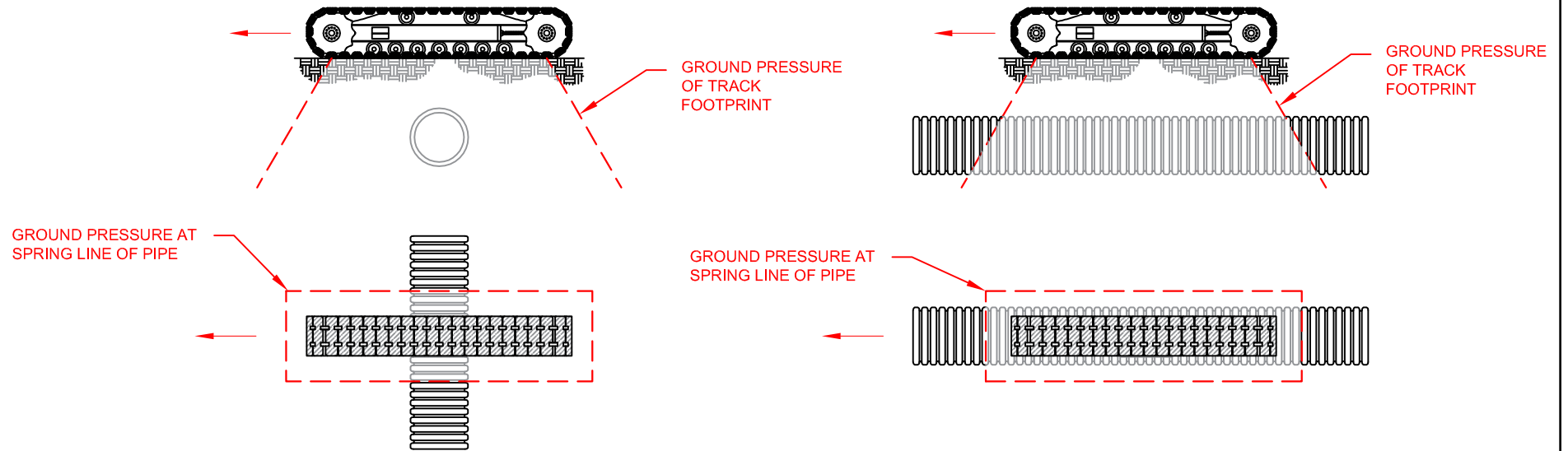


**PIPE PERPENDICULAR TO TRAFFIC DIRECTION**

**PIPE PARALLEL TO TRAFFIC DIRECTION**



**NOTES:**

1. MINIMUM COVER HEIGHTS ARE BASED ON LIVE LOADING CALCULATIONS PER AASHTO LRFD SECTION 12. VEHICLE LOADS ARE BASED UPON DRIVING OVER THE PIPE WHILE NOT PERFORMING OPERATIONAL TASKS.
2. COVER HEIGHTS DO NOT TAKE INTO CONSIDERATION POTENTIAL RUTTING OF DRIVE SURFACE. BACKFILL MATERIAL IS ASSUMED FULLY COMPACTED TO SURFACE.
3. IF MINIMUM COVER CANNOT BE ACHIEVED, IT IS RECOMMENDED TO PERFORM PERIODIC DEFLECTION EVALUATIONS TO ENSURE PIPE ROUNDNESS. THE USE OF STEEL PLATES, MOUNDING, OR TEMPORARY FILL MAY BE REQUIRED TO DISTRIBUTE VEHICLE LOADING.
4. CONTACT YOUR LOCAL ADS REPRESENTATIVE WHEN VEHICLES ENCOUNTERED IN THE FIELD EXCEED THE MAXIMUM LOADINGS INCLUDED IN THE TABLE. VEHICLES LISTED IN THE TABLE ARE FOR REFERENCE AND COMPARISON PURPOSES.
5. REFER TO STANDARD STD-101D & STD-101F FOR RECOMMENDED INSTALLATION PRACTICES.

VEHICLE	VEHICLE DESCRIPTION	MINIMUM TRACK WIDTH	GROUND PRESSURE, psf	PIPE DIAMETER	TEMPORARY MINIMUM COVER HEIGHTS	
					CLASS I COMPACTED	CLASS II @ 95% SPD
BOBCAT T870	COMPACT LOADER	18" (457mm)	706 (34kPa)	12"- 48" * (300mm-1200mm)*	3" (76mm)	3" (76mm)
HITACHI ZX300LC-6	FORESTER	24 (610mm)	1,108 (53kPa)	12"- 48" (300mm-1200mm)	6" (152mm)	6" (152mm)
				60" (1500mm)	6" (152mm)	9" (229mm)
CAT 390 FL	LARGE EXCAVATOR	26 (660mm)	2,608 (125kPa)	12"- 48" (300mm-1200mm)	9" (229mm)	9" (229mm)
				60" (1500mm)	9" (229mm)	12" (305mm)
CAT D11T	LARGE DOZER	28" (711mm)	3,389 (162kPa)	12"- 60" (300mm-1500mm)	12" (305mm)	15" (381mm)
CAT 6020B	HYDRAULIC SHOVEL	31" (787mm)	4,522 (217kPa)	12"- 60" (300mm-1500mm)	15" (381mm)	18" (457mm)

\* COVER OVER 60" (1500mm) PIPE SHOULD BE NO LESS THAN 6" (152mm)

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REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D

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<b>TRACKED VEHICLE TEMPORARY MINIMUM COVER (HP)</b>	
DRAWING NUMBER:	STD-111F



4640 TRUEMAN BLVD  
HILLIARD, OHIO 43026

DRAWN BY:	CMF
DATE:	2/19/2016
CHK'D BY:	
SCALE:	NTS
SHEET:	1 OF 1