



DETAIL 1

INSTALLATION NOTES

1. Minimum spacing between pipe shall be as shown in Table 1 to conform with ASTM A796.
2. Granular material used for pipe bedding and backfill shall conform to ASTM A798, Section 9.
3. Placement of bedding and backfill material for pipe shall meet requirements of ASTM A798, Section 10.
4. Minimum cover over top of pipe (for H-20 loading) shall be the greater of 12" or 1/8 pipe diameter or span.
5. Minimum cover over the top of the pipe for heavy construction loads shall be as shown in Table 2.
6. Length of riser pipe must be field cut to final grade.
7. Length of attached pipe stubs are determined by Lane Enterprises based on fabrication standards or shipping criteria.
8. Manholes or catch basins placed over CSP riser pipe shall be installed by the contractor in a manner that avoids wheel loads on riser and system pipe. (See Detail 1)
9. Upper portion of riser pipe shall be installed with a sleeve around the OD of the pipe. The sleeve shall be sufficiently rigid so as to avoid deformation when concrete is placed against the sleeve. Sleeve shall allow minimum settlement of concrete collar without any load being applied to riser pipe.
10. Manhole or catch basin frame shall be sized so that wheel load applied to frame is transferred to concrete collar around riser.

TABLE 1

Minimum Spacing Between Pipe

PIPE SPAN (IN)	MINIMUM SPACING (IN)
Up to 48"	24"
48" to 66"	1/2 Pipe Span
72" to 144"	36"

* Spacings shown are based on standard backfill materials, placement and compaction practices. Minimums can be reduced with the use of appropriate flowable fill materials or as directed by the design engineer.

TABLE 2

Guidelines for Minimum Cover for Heavy Construction Equipment

PIPE SPAN (IN)	Minimum Cover (ft) for Indicated Axle Loads (kips)*			
	18-50	50-75	75-110	110-150
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

* Minimum cover may vary, depending on local conditions. The contractor must provide the additional cover required to avoid damage to the pipe. Minimum cover is measured from the top of the pipe to the top of the maintained construction roadway surface.



LANE ENTERPRISES, INC.

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INSTALLATION

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REVISIONS