Hilliard Road Bridge - C.R. 69 08.57 Drainage Design Criteria

Design Designation: Urban Minor Arterial ADT > 9,000

Collection System	
Design Storm Frequency	10 year storm
'L&D Volume 2 (January 2013)	(Section 1104.4.1)
Hydraulic Gradient Shall not Exceed	rim elevation (25 year storm)
'L&D Volume 2 (January 2013)	(Section 1104.4.2)
Method to Estimate Design Discharge	Rational Method
'L&D Volume 2 (January 2013)	(Section 1101.2)
Coefficient of Runoff "C"	pavement = .9, berms and slopes = .57
'L&D Volume 2 (January 2013)	(Table 1101-2)
Minimum Time of Concentration	10 minutes
'L&D Volume 2 (January 2013)	(Section 1104.4.4)
Desirable Minimum Velocity for Design Flow	3 ft/sec
'L&D Volume 2 (January 2013)	(Section 1104.2.1)
Minimum Pipe Slope	15 degrees (27%)
L&D Volume 2 (January 2013)	(Section 1103.8)
Inlets	
Design Storm Frequency	5 year storm
'L&D Volume 2 (January 2013)	(Section 1103.2)
Maximum Spread of Flow into Traveled Lane	8' of through lane
'L&D Volume 2 (January 2013)	(Table 1103-1)
Maximum Depth of Flow at Curb	1" below top of curb or 6" abutting parapets
'L&D Volume 2 (January 2013)	(Section 1103.2)
Minimum Gutter Slope	0.3%
'L&D Volume 2 (January 2013)	(Section 1103.1)

