

Conveyance Calculations

Project: Brickyard Ridge Plat
 Date: 3/4/2014
 CPH Project No. 0067-13-002
 Description: Storm Drain Conveyance System Calculations

EXHIBIT 12
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PIPE SEGMENT		PIPE CAPACITY* (CFS)	DESIGN FLOW* (CFS)
D/S CB	U/S CB		
DOWNSTREAM	CB1 - EX	6.80	1.68
CB1 - EX	CB2 - EX	8.98	1.58
CB1 - EX	CB3 - EX	8.87	1.20
CB3 - EX	CB4 - EX	7.59	1.14
CB4 - EX	CB5 - EX	11.64	1.13
CB5 - EX	CB6 - EX	7.14	0.93
CB6 - EX	CB7 - EX	7.46	0.76
CB7 - EX	CB10	8.02	0.61
CB10	CB20	7.32	0.40
CB20	CB30	5.97	0.40
CB30	CB40	2.34	0.40
CB40	VAULT	7.17	0.40

*Pipe capacity calculated using Manning's Equation for full flow.

*Design flow calculated using KCRS time series files for the 25-yr storm event

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