

DRAINAGE COMPUTATIONS

COMP. BY: BPB

PROJECT: McDonald's New Bedford

JOB NO. w142005

DATE: 9/28/2015

Location: 1080 Kings Highway, New Bedford

RATIONAL METHOD PIPE CALCULATIONS

DESIGN PERIOD: 10-YEAR STORM

LOCATION			IMPERVIOUS			LANDSCAPE			AVG			Q					Q	V
FROM	TO	A (total)	A	C	CA	A	C	CA	C	Tc	I	CxIx A	D	S	n	L	full	full
		(Ac)	(Ac)			(Ac)				(Min)	in/hr	(cfs)	(in)	(ft/ft)		(ft)	(cfs)	(fps)
CB-1	DMH-A	0.045	0.045	0.90	0.041	0.000	0.30	0.000	0.90	6	4.8	0.20	12	0.005	0.012	68	2.73	3.47
CB-2	DMH-A	0.055	0.047	0.90	0.042	0.008	0.30	0.002	0.82	6	4.8	0.21	12	0.005	0.012	30	2.73	3.47
DMH-A	DMH-B	0.100	0.092	0.90	0.083	0.008	0.30	0.002	0.85	6	4.8	0.41	12	0.005	0.012	93	2.73	3.47
CB-3	DMH-B	0.275	0.260	0.90	0.234	0.015	0.30	0.004	0.87	6	4.8	1.14	12	0.005	0.012	52	2.73	3.47
DMH-B	DMH-C	0.375	0.352	0.90	0.317	0.023	0.30	0.007	0.86	6	4.8	1.55	12	0.005	0.012	94	2.73	3.47
CB-4	DMH-C	0.167	0.136	0.90	0.123	0.031	0.30	0.009	0.79	6	4.8	0.63	12	0.005	0.012	7	2.73	3.47
ROOF	PIPE	0.100	0.100	0.90	0.090	0.000	0.30	0.000	0.90	6	4.8	0.43	6	0.005	0.012	45	0.43	2.19
CB-5	DMH-C	0.172	0.140	0.90	0.126	0.032	1.30	0.041	0.97	6	4.8	0.80	12	0.005	0.012	46	2.73	3.47
DMH-C	SWQU	0.814	0.729	0.90	0.656	0.085	0.30	0.026	0.84	6	4.8	3.27	12	0.005	0.012	53	2.73	3.47
SWQU	DMH-D	0.814	0.729	0.90	0.656	0.085	0.30	0.026	0.84	6	4.8	3.27	12	0.005	0.012	58	2.73	3.47