

COST / IMPACT ANALYSIS
BOROUGH OF DORMONT
KELTON AVENUE WATERSHED STORMWATER IMPROVEMENTS
OPTION No. 1

Prepared by:
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2- Year Storm Event							
Project Phase	Flow To Athens Alley (CSF)	Flow To Kelton Ave. (CFS)	Percent Reduction To Athens Alley	Percent Reduction to Kelton Ave.	Project Cost	Percent Overland Flow To Athens Alley	Percent Overland Flow to Kelton Ave.
Existing Conditions	73.4	85.7				58%	64%
Phase I	32.4	85.7	56%	0%	\$ 223,500.00	47%	51%
Phase II	31.7	85.5	1%	0%	\$ 345,475.00	39%	42%
Phase III	17.5	80.1	19%	6%	\$ 281,687.50	27%	31%
Phase IV	15.2	79.2	3%	1%	\$ 96,012.50	20%	24%
Phase V	4.5	75.2	15%	5%	\$ 349,187.50	6%	9%
Total	4.5	75.2	94%	12%	\$ 1,295,862.50	6%	9%

10- Year Storm Event							
Project Phase	Flow To Athens Alley (CSF)	Flow To Kelton Ave. (CFS)	Percent Reduction To Athens Alley	Percent Reduction to Kelton Ave.	Project Cost	Percent Overland Flow To Athens Alley	Percent Overland Flow to Kelton Ave.
Existing Conditions	119.1	139.6				74%	78%
Phase I	52.3	139.6	56%	0%	\$ 223,500.00	56%	51%
Phase II	26.7	135.0	21%	3%	\$ 345,475.00	45%	42%
Phase III	18.5	133.6	7%	1%	\$ 281,687.50	32%	31%
Phase IV	18.5	133.6	0%	0%	\$ 96,012.50	24%	24%
Phase V	7.4	131.6	9%	1%	\$ 349,187.50	6%	9%
Total	7.4	131.6	94%	6%	\$ 1,295,862.50	6%	9%

25- Year Storm Event							
Project Phase	Flow To Athens Alley (CSF)	Flow To Kelton Ave. (CFS)	Percent Reduction To Athens Alley	Percent Reduction to Kelton Ave.	Project Cost	Percent Overland Flow To Athens Alley	Percent Overland Flow to Kelton Ave.
Existing Conditions	140.1	164.2				78%	81%
Phase I	61.7	164.2	56%	0%	\$ 223,500.00	48%	44%
Phase II	22.7	160.3	28%	2%	\$ 345,475.00	40%	37%
Phase III	18.9	159.9	3%	0%	\$ 281,687.50	28%	27%
Phase IV	17.5	159.8	1%	0%	\$ 96,012.50	21%	21%
Phase V	8.8	158.9	6%	1%	\$ 349,187.50	6%	9%
Total	8.8	158.9	94%	3%	\$ 1,295,862.50	6%	9%

100- Year Storm Event							
Project Phase	Flow To Athens Alley (CSF)	Flow To Kelton Ave. (CFS)	Percent Reduction To Athens Alley	Percent Reduction to Kelton Ave.	Project Cost	Percent Overland Flow To Athens Alley	Percent Overland Flow to Kelton Ave.
Existing Conditions	164.4	192.9				81%	84%
Phase I	72.41	192.9	56%	0%	\$ 223,500.00	56%	51%
Phase II	28.5	191.7	27%	1%	\$ 345,475.00	45%	42%
Phase III	25.1	191.6	2%	0%	\$ 281,687.50	32%	31%
Phase IV	25.1	191.6	0%	0%	\$ 96,012.50	24%	23%
Phase V	10.3	191.2	9%	0%	\$ 349,187.50	6%	9%
Total	10.3	191.2	94%	1%	\$ 1,295,862.50	6%	9%