

Proposed Reductions in Flooding Depths for \$77 Million Storm Water Improvement Project

10-Year Rain Event

Location	Existing Lowest Ground Elevation		Existing Conditions Water Surface Elevation (WSEL)		Proposed Condition Water Surface Elevations and Reductions Alternative 1 "Trunk & Laterals"	
	spot shot (LIDAR)		10-year Rain (ft)		10-year Rain Event (ft)	
			WSEL	Flooding Depth	WSEL	Flooding Depth
Kilpatrick/Hartzell	619.83		621.4	1.5	620.0	0.1
Beechwood W	622.71		624.4	1.7	622.9	0.1
Beechwood E	622.79		624.4	1.6	622.9	0.1
Wilshire E	621.11		622.6	1.5	621.2	0.1
Hill	619.71		621.1	1.4	619.8	0.1
Washington/Pinecrest	626.22		628.4	2.2	626.3	0.1
Thelin	619.98		622.3	2.3	620.0	0.1
Kenilworth E	622.89		624.4	1.5	622.9	0.0
Wilshire W	620.90		622.6	1.7	620.9	0.0
Greenleaf/Locust/Laurel	621.21		622.4	1.1	621.2	0.0
Kilpatrick/Gregory	620.44		621.4	1.0	620.4	0.0
Nina	620.02		621.1	1.1	619.8	-0.2
Meadow	621.57		623.4	1.9	621.4	-0.2
Lavergne S	620.41		620.8	0.4	620.0	-0.4
Romona/Blackhawk	621.38		622.9	1.5	620.9	-0.4
Greenleaf E	619.59		621.3	1.7	619.1	-0.4
Valley View Rear Yards	620.39		621.8	1.4	619.9	-0.5
Brookside	621.35		622.5	1.2	620.8	-0.5
Chestnut E	624.22		624.5	0.3	623.6	-0.6
Iroquois E	623.50		624.8	1.3	622.9	-0.6
Miami	623.63		624.8	1.2	623.0	-0.6
Pawnee	623.55		624.8	1.3	622.9	-0.7
Thornwood E	624.69		625.2	0.5	624.0	-0.7
Orchard/Locust/Hawthorne	621.85		623.3	1.5	621.1	-0.7
Kenilworth W	623.74		624.6	0.9	623.0	-0.8
Birchwood/Kenneth/Alison	621.50		622.7	1.2	620.7	-0.8
Beverly	621.38		622.8	1.4	620.5	-0.8
Sunset	621.11		622.1	1.0	620.2	-0.9
Greenwood	624.11		625.6	1.5	623.2	-0.9
Thornwood W	624.63		625.2	0.6	623.6	-1.0
Valley View	621.09		622.0	0.9	620.0	-1.1
Shabona/Seminole	622.21		622.8	0.6	621.1	-1.1
Lilac/Milbrook	621.12		621.6	0.5	620.0	-1.2
Redbud/Orchard W	621.99		623.2	1.2	620.8	-1.2
Central/Knox	621.08		621.9	0.8	619.8	-1.3
Elmwood	625.35		625.5	0.2	624.0	-1.3
Romona/Iroquois	622.31		623.0	0.7	621.0	-1.3
Hunter S	623.96		624.6	0.6	622.6	-1.4
Chilton	622.21		621.8	0.0	620.7	-1.5
Central/Laporte	620.64		621.6	0.9	619.0	-1.7
Chestnut W	624.67		624.7	0.0	622.8	-1.9
Romona/Wilmette	622.03		622.4	0.3	619.9	-2.1
Lacrosse	620.78		622.1	1.3	618.3	-2.4
Lavergne N	621.18		622.2	1.0	617.6	-3.6

Min	0.0
Max	2.3
Avg	1.1

Min	-3.6
Max	0.1
Avg	-0.8

Note: For the purposes of reporting data, 10-year level of service was determined to be achieved for flooding depths of 0.1 feet or less.

**Proposed Reductions in Flooding Depths for \$77 Million Storm Water Improvement Project
25-Year Rain Event**

Location	Lowest Ground Elevation spot shot (LIDAR)	Existing Conditions Water Surface Elevation (WSEL)		Proposed Condition Water Surface Elevations and Reductions Alternative 1 "Trunk & Laterals"	
		25-year (ft)		25-year (ft)	
		WSEL	Flooding Depth	WSEL	Flooding Depth
Washington/Pinecrest	626.22	628.8	2.6	627.9	1.7
Beechwood W	622.71	624.9	2.2	624.4	1.7
Beechwood E	622.79	624.9	2.2	624.4	1.6
Wilshire W	620.90	622.9	2.0	622.5	1.6
Thelin	619.98	622.7	2.7	621.5	1.6
Kenilworth E	622.89	624.9	2.1	624.4	1.5
Wilshire E	621.11	622.9	1.8	622.6	1.4
Romona/Blackhawk	621.38	623.4	2.0	622.8	1.4
Kilpatrick/Hartzell	619.83	621.7	1.8	621.2	1.4
Meadow	621.57	623.7	2.1	622.9	1.3
Hill	619.71	621.4	1.7	620.9	1.2
Greenleaf/Locust/Laurel	621.21	622.7	1.5	622.4	1.1
Kilpatrick/Gregory	620.44	621.8	1.3	621.6	1.1
Greenleaf E	619.59	621.7	2.1	620.6	1.1
Nina	620.02	621.5	1.4	621.1	1.0
Brookside	621.35	622.9	1.6	622.3	1.0
Iroquois E	623.50	625.3	1.8	624.5	1.0
Orchard/Locust/Hawthorne	621.85	623.6	1.8	622.8	1.0
Miami	623.63	625.3	1.7	624.6	1.0
Pawnee	623.55	625.3	1.8	624.5	0.9
Valley View Rear Yards	620.39	622.1	1.7	621.3	0.9
Birchwood/Kenneth/Alison	621.50	623.0	1.5	622.4	0.9
Greenwood	624.11	626.0	1.9	625.0	0.8
Beverly	621.38	622.9	1.6	622.1	0.8
Shabona/Seminole	622.21	623.4	1.2	623.0	0.7
Kenilworth W	623.74	625.0	1.2	624.4	0.7
Chilton	622.21	622.9	0.7	622.9	0.7
Sunset	621.11	622.4	1.3	621.8	0.7
Lavergne S	620.41	621.3	0.9	621.0	0.6
Romona/Iroquois	622.31	623.4	1.1	622.9	0.5
Thornwood W	624.63	625.4	0.7	625.1	0.5
Redbud/Orchard W	621.99	623.5	1.5	622.5	0.5
Thornwood E	624.69	625.2	0.5	625.2	0.5
Valley View	621.09	622.3	1.2	621.5	0.4
Central/Knox	621.08	622.2	1.1	621.4	0.4
Elmwood	625.35	625.9	0.5	625.7	0.3
Chestnut E	624.22	624.9	0.7	624.5	0.3
Lilac/Milbrook	621.12	621.8	0.7	621.4	0.2
Hunter S	623.96	625.2	1.2	624.2	0.2
Central/Laporte	620.64	621.9	1.3	620.7	0.1
Chestnut W	624.67	625.3	0.6	624.7	0.0
Lacrosse	620.78	622.4	1.6	620.7	0.0
Romona/Wilmette	622.03	622.7	0.7	621.4	-0.6
Lavergne N	621.18	622.4	1.3	618.9	-2.2

Min	0.5
Max	2.7
Avg	1.5

Min	-2.2
Max	1.7
Avg	0.8

**Proposed Reductions in Flooding Depths for \$77 Million Storm Water Improvement Project
50-Year Rain Event**

Location	Lowest Ground Elevation	Existing Conditions Water Surface Elevation (WSEL)		Proposed Condition Water Surface Elevations and Reductions Alternative 1 "Trunk & Laterals"	
		50-year (ft)		50-year (ft)	
		WSEL	Flooding Depth	WSEL	Flooding Depth
Washington/Pinecrest	626.22	629.2	2.9	628.4	2.2
Beechwood W	622.71	625.3	2.6	624.9	2.2
Thelin	619.98	623.0	3.0	622.1	2.1
Beechwood E	622.79	625.3	2.5	624.9	2.1
Romona/Blackhawk	621.38	623.7	2.3	623.4	2.0
Kenilworth E	622.89	625.3	2.4	624.9	2.0
Wilshire W	620.90	623.1	2.2	622.9	2.0
Kilpatrick/Hartzell	619.83	621.9	2.1	621.6	1.8
Wilshire E	621.11	623.1	2.0	622.9	1.8
Meadow	621.57	623.9	2.3	623.3	1.7
Hill	619.71	621.6	1.9	621.3	1.6
Miami	623.63	625.7	2.1	625.2	1.5
Greenleaf E	619.59	622.0	2.4	621.1	1.5
Greenleaf/Locust/Laurel	621.21	622.9	1.7	622.7	1.5
Kilpatrick/Gregory	620.44	622.0	1.6	621.9	1.4
Orchard/Locust/Hawthorne	621.85	623.7	1.9	623.3	1.4
Iroquois E	623.50	625.7	2.2	624.9	1.4
Nina	620.02	621.7	1.6	621.4	1.4
Pawnee	623.55	625.7	2.2	624.9	1.4
Brookside	621.35	623.2	1.8	622.7	1.4
Greenwood	624.11	626.2	2.1	625.5	1.3
Valley View Rear Yards	620.39	622.4	2.0	621.7	1.3
Shabona/Seminole	622.21	623.7	1.5	623.4	1.2
Kenilworth W	623.74	625.3	1.6	624.9	1.2
Birchwood/Kenneth/Alison	621.50	623.2	1.7	622.6	1.1
Beverly	621.38	623.0	1.7	622.5	1.1
Romona/Iroquois	622.31	623.7	1.4	623.4	1.1
Sunset	621.11	622.6	1.5	622.2	1.1
Lavergne S	620.41	621.6	1.2	621.4	1.0
Redbud/Orchard W	621.99	623.7	1.7	623.0	1.0
Chilton	622.21	623.1	0.9	623.1	0.9
Valley View	621.09	622.4	1.3	622.0	0.9
Central/Knox	621.08	622.4	1.3	621.9	0.8
Lacrosse	620.78	622.7	1.9	621.5	0.7
Hunter S	623.96	625.7	1.7	624.7	0.7
Thornwood W	624.63	625.7	1.0	625.3	0.7
Chestnut E	624.22	625.3	1.1	624.9	0.7
Central/Laporte	620.64	622.1	1.5	621.3	0.6
Lilac/Milbrook	621.12	622.1	1.0	621.7	0.6
Thornwood E	624.69	625.3	0.6	625.2	0.5
Elmwood	625.35	625.9	0.5	625.9	0.5
Chestnut W	624.67	625.6	1.0	624.9	0.3
Romona/Wilmette	622.03	622.9	0.9	621.9	-0.1
Lavergne N	621.18	622.6	1.4	619.5	-1.7

Min	0.5
Max	3.0
Avg	1.7

Min	-1.7
Max	2.2
Avg	1.2

**Proposed Reductions in Flooding Depths for \$77 Million Storm Water Improvement Project
100-Year Rain Event**

Location	Lowest Ground Elevation	Existing Conditions Water Surface Elevation (WSEL)		Proposed Condition Water Surface Elevations and Reductions Alternative 1 "Trunk & Laterals"	
		100-year (ft)		100-year (ft)	
		WSEL	Flooding Depth	WSEL	Flooding Depth
	spot shot (LIDAR)				
Washington/Pinecrest	626.22	629.5	3.3	628.8	2.6
Beechwood W	622.71	625.7	3.0	625.3	2.6
Beechwood E	622.79	625.7	2.9	625.3	2.5
Thelin	619.98	623.2	3.3	622.5	2.5
Romona/Blackhawk	621.38	623.9	2.6	623.8	2.4
Kenilworth E	622.89	625.7	2.8	625.3	2.4
Wilshire W	620.90	623.3	2.4	623.2	2.3
Kilpatrick/Hartzell	619.83	622.2	2.4	622.0	2.2
Wilshire E	621.11	623.3	2.2	623.2	2.1
Meadow	621.57	624.1	2.6	623.6	2.0
Greenleaf E	619.59	622.3	2.7	621.6	2.0
Miami	623.63	626.0	2.4	625.5	1.9
Iroquois E	623.50	626.0	2.5	625.4	1.9
Hill	619.71	621.8	2.0	621.6	1.8
Pawnee	623.55	626.0	2.4	625.4	1.8
Greenwood	624.11	626.4	2.3	625.9	1.8
Orchard/Locust/Hawthorne	621.85	623.8	2.0	623.6	1.8
Greenleaf/Locust/Laurel	621.21	623.1	1.9	623.0	1.8
Valley View Rear Yards	620.39	622.5	2.1	622.1	1.7
Kilpatrick/Gregory	620.44	622.3	1.8	622.2	1.7
Brookside	621.35	623.4	2.1	623.1	1.7
Nina	620.02	621.9	1.8	621.7	1.7
Shabona/Seminole	622.21	623.9	1.7	623.8	1.6
Kenilworth W	623.74	625.7	2.0	625.3	1.5
Romona/Iroquois	622.31	623.9	1.6	623.8	1.5
Beverly	621.38	623.2	1.8	622.8	1.5
Sunset	621.11	622.9	1.8	622.6	1.4
Birchwood/Kenneth/Alison	621.50	623.3	1.8	622.9	1.4
Redbud/Orchard W	621.99	623.8	1.8	623.4	1.4
Lavergne S	620.41	621.8	1.4	621.7	1.3
Lacrosse	620.78	622.8	2.0	622.0	1.2
Valley View	621.09	622.5	1.4	622.3	1.2
Hunter S	623.96	626.0	2.0	625.1	1.2
Central/Knox	621.08	622.6	1.5	622.2	1.1
Central/Laporte	620.64	622.5	1.8	621.7	1.1
Chestnut E	624.22	625.7	1.5	625.3	1.1
Chilton	622.21	623.3	1.0	623.2	1.0
Lilac/Milbrook	621.12	622.3	1.2	622.1	0.9
Thornwood W	624.63	625.8	1.2	625.4	0.8
Chestnut W	624.67	625.8	1.2	625.3	0.6
Thornwood E	624.69	625.7	1.0	625.3	0.6
Elmwood	625.35	626.0	0.6	625.9	0.6
Romona/Wilmette	622.03	623.1	1.0	622.3	0.3
Lavergne N	621.18	622.7	1.6	620.1	-1.0

Min	0.6
Max	3.3
Avg	2.0

Min	-1.0
Max	2.6
Avg	1.5

