

City of Grand Forks
Integrated Asset Management Model
Level 1 - Investment Plan

Asset Category	2010					Investment Year (2010 Dollars)																							
	100% Replacement Value	Loss in Value	Remaining Value	Expected Remaining Life	Infrastructure Deficit (Backlog)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	20 Year Total	Average Annual Investment		
Water System																													
Mains	\$23,525,000	\$11,176,000	\$12,349,000	52%	\$641,000	\$0	\$18,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$291,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$68,000	\$1,308,000	\$904,000	\$3,230,000	\$361,000	
Wells/Pumps/Treatment Reservoirs	\$1,529,000	\$1,330,000	\$199,000	13%	\$790,000	\$500,000	\$500,000	\$453,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$110,000	\$0	\$186,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,539,000	\$57,000
Other	\$75,000	\$75,000	\$0	0%	\$316,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,116,000	\$105,000	
Sub-total Water	\$27,200,000	\$13,005,000	\$14,195,000	52%	\$1,947,000	\$2,950,000	\$2,968,000	\$653,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$291,000	\$110,000	\$0	\$186,000	\$0	\$0	\$0	\$68,000	\$1,308,000	\$904,000	\$12,585,000	\$784,000		
Sanitary Sewer System																													
Gravity Mains	\$10,535,000	\$8,756,000	\$1,779,000	17%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,109,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,109,000	\$0	
Forcemains	\$325,000	\$166,000	\$159,000	49%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Treatment Plant	\$11,016,000	\$5,914,000	\$5,102,000	46%	\$0	\$0	\$0	\$0	\$420,000	\$0	\$0	\$750,000	\$0	\$0	\$9,728,000	\$0	\$0	\$0	\$392,000	\$547,000	\$0	\$0	\$0	\$0	\$0	\$0	\$11,837,000	\$490,000	
Pump Stations	\$4,043,000	\$707,000	\$3,336,000	83%	\$3,443,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200,000	\$0	\$200,000	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$4,043,000	\$162,000	
Other	\$75,000	\$75,000	\$0	0%	\$1,300,000	\$800,000	\$850,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,350,000	\$218,000	
Sub-total Sanitary Sewer	\$25,994,000	\$15,618,000	\$10,376,000	40%	\$4,743,000	\$800,000	\$850,000	\$200,000	\$200,000	\$620,000	\$200,000	\$9,309,000	\$950,000	\$200,000	\$0	\$9,728,000	\$200,000	\$0	\$200,000	\$392,000	\$747,000	\$0	\$0	\$0	\$0	\$0	\$29,339,000	\$870,000	
Stormwater System																													
Mains	\$3,141,000	\$3,036,000	\$105,000	3%	\$2,575,000	\$0	\$0	\$20,000	\$319,000	\$0	\$0	\$0	\$228,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,142,000	\$105,000	
Catchbasins	\$860,000	\$138,000	\$722,000	84%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,000	
Dry Wells/Soak Aways	\$1,200,000	\$425,000	\$775,000	65%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000	
Sub-total Stormwater	\$5,201,000	\$3,599,000	\$1,602,000	31%	\$2,575,000	\$0	\$0	\$20,000	\$319,000	\$0	\$0	\$0	\$228,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,142,000	\$131,000	
Electrical																													
Electrical Distribution Lines	\$2,500,000	\$1,250,000	\$1,250,000	50%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	
Donaldson Feeder	\$200,000	\$48,000	\$152,000	76%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200,000	\$8,000	
Power Poles	\$2,500,000	\$1,900,000	\$600,000	24%	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500,000	\$100,000	
Transformers	\$2,500,000	\$1,250,000	\$1,250,000	50%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	
Ruckles Substation	\$2,000,000	\$80,000	\$1,920,000	96%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000	
Sub-total Electrical	\$9,700,000	\$4,528,000	\$5,172,000	53%	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200,000	\$2,700,000	\$228,000	
Roadway System																													
Roads	\$29,001,000	\$26,432,000	\$2,569,000	9%	\$19,913,000	\$2,993,000	\$0	\$0	\$0	\$0	\$0	\$0	\$2,614,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,879,000	\$0	\$0	\$0	\$0	\$0	\$0	\$29,399,000	\$1,114,000	
Sidewalks	\$3,732,000	\$1,335,000	\$2,397,000	64%	\$35,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35,000	\$75,000	
Paved Pathways	\$0	\$0	\$0	0%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Streetlights	\$1,800,000	\$1,029,000	\$771,000	43%	\$0	\$0	\$0	\$0	\$0	\$0	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,200,000	\$51,000	
Sub-total Roadway	\$34,533,000	\$28,796,000	\$5,737,000	17%	\$19,948,000	\$2,993,000	\$0	\$0	\$0	\$0	\$1,200,000	\$0	\$2,614,000	\$0	\$0	\$0	\$0	\$0	\$3,879,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,634,000	\$1,240,000	
Fleet																													
Trucks - Heavy	\$3,492,000	\$2,070,000	\$1,422,000	41%	\$1,245,000	\$0	\$127,000	\$0	\$41,000	\$130,000	\$260,000	\$504,000	\$117,000	\$150,000	\$230,000	\$50,000	\$0	\$0	\$0	\$240,000	\$0	\$0	\$135,000	\$0	\$68,000	\$2,052,000	\$202,000		
Trucks - Light	\$612,000	\$324,000	\$288,000	47%	\$228,000	\$65,000	\$0	\$0	\$0	\$71,000	\$0	\$0	\$135,000	\$0	\$113,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$384,000	\$50,000	
Equipment	\$278,000	\$129,000	\$149,000	54%	\$75,000	\$0	\$40,000	\$0	\$8,000	\$5,000	\$115,000	\$0	\$0	\$0	\$2,000	\$10,000	\$0	\$0	\$0	\$0	\$0	\$18,000	\$0	\$0	\$0	\$198,000	\$24,000		
Sub-total Fleet	\$4,382,000	\$2,523,000	\$1,859,000	42%	\$1,548,000	\$65,000	\$167,000	\$0	\$49,000	\$206,000	\$375,000	\$504,000	\$252,000	\$150,000	\$343,000	\$52,000	\$10,000	\$0	\$0	\$240,000	\$0	\$0	\$153,000	\$0	\$68,000	\$2,634,000	\$276,000		
Buildings & Facilities																													
Civic Buildings	\$12,807,000	\$2,393,000	\$10,414,000	81%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$142,000	
Park Facilities	\$3,679,000	\$2,206,000	\$1,473,000	40%	\$647,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,600,000	\$0	\$0	\$0	\$2,600,000	\$92,000		
Public Works	\$3,567,000	\$1,454,000	\$2,113,000	59%	\$46,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$59,000	
Sub-total Buildings & Facilities	\$20,053,000	\$6,053,000	\$14,000,000	70%	\$693,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,600,000	\$0	\$0	\$0	\$2,600,000	\$293,000		
Program Support Costs																													
Asset Management Support	N/A	N/A	N/A	N/A	N/A	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000	\$160,000		
Infrastructure Inspections	N/A	N/A	N/A	N/A	N/A	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$500,000		
Sub-total Program Support						\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$25,000	\$25,000	\$25,000	\$25,000	\$45,000	\$25,000	\$25,000	\$25,000	\$25,000	\$45,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$45,000	\$660,000	\$30,000	
Total Infrastructure	\$127,063,000	\$74,122,000	\$52,941,000		\$32,454,000	\$6,853,000	\$4,030,000	\$918,000	\$813,000	\$1,071,000	\$2,000,000	#####	\$4,269,000	\$575,000	\$2,179,000	\$9,915,000	\$235,000	\$211,000	\$225,000	\$4,556,000	\$772,000	\$2,625,000	\$246,000	\$1,533,000	\$1,017,000	\$84,294,000	\$3,852,000		