

Draft

Stormwater Improvement Plan

City of Gainesville

July 22, 1998

Stormwater Improvement Plan

Introduction

This Stormwater Improvement Plan (SIP) is a methodology to identify projects and establish priorities for those projects meriting inclusion in the Department's funded five work program. This information aids in managing the Stormwater Utility and the services it provides.

Stormwater projects are categorized as follows:

• Management (a combination of the other categories that merits management handling)	• Flood Control
• Water Quality	• Storm Sewer
• Ditches	• Basins
• Other	

Assigning Priorities

Initial priorities assigned to the projects based on a subjective evaluation made by the engineering staff's knowledge of the need. No backup or documentation of the priorities is provided at this time.

A methodology is being developed to assist in prioritizing identified projects. Staff has prepared a draft document titled 'Stormwater Management Capital Improvement Plan Project Priority Assessment' that considers at least 18 aspects of each project. This form of evaluation is envisioned as means by which priorities may be developed by using a more technical approach than the present subjective method.

Project List

Attached is a listing of all currently identified improvement needs and estimated costs. This list is sorted by category and priority.

Stormwater Improvement Program

The Stormwater Improvement Program consists of those projects that will be funded for implementation during a five year program. The funding of this initial program is primarily from the undesignated SMU fund balance. Our intent is to maintain a reserve fund of approximately 10% of our annual operating budget.

Stormwater Management Projects

Category	Project Description	Est'd Cost x\$1000
Basins		
Basin	Interim CCD Stormwater Facility	60
Basin	Landmark Woods II Retention Basin Improvements Study	15
Basin	Retrofitting existing basin for water quality improvements @ the Valley Subdivision, NW 38th Street south of 39th Avenue	75
Basin	Mile Run Retrofit	
Master Stormwater Facilities		
Master	Downtown Stormwater Park	215
Master	College Park	
Master	University Heights/Tumblin Creek	
Ditches		
Ditch	Ditch Bank Stabilization and maintenance access, south side of NE 19th Place between 9th and 15th Streets (Howard Bishop and Metcalf Ditch)	75
Ditch	Rosewood Branch - south of SE 2nd Avenue (1200 Block), Culvert protection with headwalls, erosion controls, backfill, bank stabilization, street water collection system, and site security	200
Ditch	Ditch System restoration in the Colclough Hills Subdivision	25
Flood Control		
Flood Control	4200 Block of NW 19th Street - Part of NW 19th Street Reconstruction Project	20
Flood Control	Royal Park Creek Flood Control Berm (Hogtown Creek Basin Plan '92, Project 5-A)	50
Flood Control	Duval Area Drainage Right-of-Way acquisition	145

Stormwater Management Projects

Catagory	Project Description	Est'd Cost x\$1000
Flood Control	NW 22nd Street Flood Control Berm (Hogtown Creek Basin Plan '92, Project 9)	75
Flood Control	Ridgewood Park Neighborhood Flood Control Berm (Hogtown Creek Basin Plan '92, Project 4)	200
Flood Control	Ridgeview Creek Culvert Expansion at NW 27th Terrace (Hogtown Creek Basin Plan '92, Project 6-C)	75
Flood Control	Area of NE 28th Avenue and 13th Street	50
Flood Control	Hugh Edward's Industrial Center Drainage Improvements Study	15
Flood Control	Flood Map Update for Annexed Areas since 1991	1,000
Flood Control	NE 18th Terrace, North of 23rd Avenue, Installation of Drainage System	125
Flood Control	Flooding Problem in the vicinity of NE 19th Drive in the 2300 Block	25
Flood Control	Loblolly Recreation Area Project for Flood Reduction (Hogtown Creek Basin Plan '92, Project 3)	500
Flood Control	Rock Creek Area Project for Flood Reduction (Hogtown Creek Basin Plan '92, Project 6-A)	150
Flood Control	Arboretum Property Acquisition & Facilities Construction (NW corner of University Ave & 23 St.) ON HOLD	
Management		
Management	Sweetwater Branch Paynes Prairie Vegetative Study	70
Management	Sweetwater Branch Paynes Prairie Water Quality Improvement Project	3,800
Other		
Other	Royal Park Ditch - Reoccurring Sink Holes	8
Other	Major Culvert Inventory and Mapping Update for Current City Boundaries for Comp Plan	10

Stormwater Management Projects

Category	Project Description	Est'd Cost x\$1000
Other	Springtree IV Stormwater Basin Investigation	10
Other	Vegetation Management Evaluation and Pilot for Easements and Right of Way maintained by SMU. Purpose: to reduce the amount of labor required for maintenance.	15
Other	Major/Minor channels for Basin-Map Update for Comp Plan	10
Other	Retention/Detention Basin Map Update for Current City Boundaries for Comp Plan	10
Other	Wetlands Inventory Map Update for Current City Boundaries for Comp Plan	50
Other	Retention Basin Investigation, Located in the vicinity of NW 39th Street and 12th Avenue (Westmoreland)	15
Storm Sewer		
Storm Sewer	Between W. Univ. & SW 2nd Avenues and between SW23rd Street & 23rd Terrace, Storm Sewer System Replacement/Modification	25
Storm Sewer	Drainage - 2800 Block of NW 38th Street (Rock Creek)	15
Storm Sewer	Ditch Piping - SE 12th Street between 12th and 13th Avenues, East Side	45
Storm Sewer	Partial Storm sewer replacement/upgrade in College Park, from 19th Street to 21st Street	320
Storm Sewer	Relocate and pipe existing ditch in the 1600 block between SE 4th and SE 8th Avenues, Significant land rights required (Durant & Monroe)	35
Storm Sewer	Culvert Replacement/upgrade - SE 7th Avenue @ Sweetwater Branch (1000 block)	250
Storm Sewer	Failed Storm sewer pipe on SE 2nd Place between 4th and 6th Street	25
Storm Sewer	Pipe existing ditch on north side of NE 8th Avenue from 25th Street to east end	50

Stormwater Management Projects

Category	Project Description	Est'd Cost x\$1000
Storm Sewer	Pipe existing ditch on north side of NE 31st Avenue from between Main and 9th Streets	250
Storm Sewer	Ditch Piping - 3100 Block of NW 53rd Avenue, North side, by energy dissipation box, due to ditch erosion problems	270
Water Quality		
Water Quality	NE Boulevard Duck Pond Area - Sweetwater Branch Improvements Design	40
Water Quality	Sweetwater @ Prairie	200
Water Quality	Install sediment and floatables trap on SE 2nd Place at Sweetwater	35
Water Quality	Hogtown Creek @ 34th Street Sedimentation Control System	1,600

STORMWATER IMPROVEMENT PROGRAM

FY 98/99 - FY 02/03

Stormwater Improvement Program

Project	Work Description	FY '99		FY '00		FY '01		FY '02		FY '03	
		Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost
Northeast Boulevard Duck Pond Improvements	Phase I Construction	\$ 350,000									
	Phase II Construction		\$ 150,000								
S.E. 2nd Place Pipe Replacement, 400 to 600 Block	Construction	\$ 50,000									
	Acquisition	\$ 10,000									
Rosewood Creek Improvements, 1200 Block of S.E. 2nd Avenue	Engineering & Permitting				\$ 2,000						
	Construction						\$ 200,000				
Sedimentation Facility, N.W. 23rd Street @ 8th Avenue (Elizabeth Place Ck)	Engineering/Permitting		\$ 30,000								
	Construction					\$ 70,000					
CCD Master Stormwater Management Facility	Property Acquisition, Design, & Permitting	\$ 285,000									
	Construction				\$ 500,000						
SE 7th Avenue, 1000 Block, Rosewood Branch Creek Culvert Replacement	Construction						\$ 500,000				
	Design, Permitting, & Construction	\$ 150,000									
Duval Neighborhood Drainage Improvements.	Phase I Acquisition, Engineering, & Permitting					\$ 40,000					
	Phase I Construction:										
	Phase II Acquisition & Engineering						\$ 200,000				
	Phase II Construction: Phase III Acquisition & Engineering								\$ 200,000		
Annual Total Cost		\$ 845,000	\$ 180,000	\$ 612,000	\$ 900,000	\$ 200,000	\$ 500,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000