



STORM DRAINAGE SYSTEM

Storm Drainage System

The Storm Drainage System Program designs and constructs drainage improvement projects in areas of the City with a demonstrated need of flood protection for Houston and its residents. The Storm Water Drainage System includes collection of rainfall runoff via roadside ditches and/or streets with underground pipe (storm sewer) and the conveyance of storm water via off-road channels and underground structures to a receiving system and detention structures designed manage the rate of flow into a receiving system. The receiving system can be a bayou, tributary channel, or another storm sewer. The program includes investments in channel and detention capacity made in partnership with the Harris County Flood Control District.

The Capital Improvement Plan (CIP) provides an estimate of delivery by fiscal year for the next five years. The FY2025-2029 CIP includes \$921 million for Storm Drainage System improvements funded primarily through drainage fees assessed on non-exempted benefitted property and a dedication of ad valorem revenue to the Dedicated Drainage and Street Renewal Fund (DDSRF). An additional \$75 million of Water and Wastewater improvements are planned to accompany Storm Drainage System projects.

The Storm Drainage System Program consists of the following major components:

Capital Improvement Projects:

- The City uses objective criteria to develop a ranked list of the highest priority need areas across the City and prioritize candidate storm drainage projects based on their benefits and costs. Projects are developed in accordance with the City's design criteria to convey 2-year rainfall events within the collection system (roadside ditch and/or storm sewer) and reduce the risk of structural flooding during 100-year storm events. Properties within special flood hazard areas or the 100-year flood zone will be protected from localized event flooding but may not be protected from flooding related to inadequate level of service of the receiving system.

Local Drainage Program (LDP) & Storm Water Action Team (SWAT) Projects:

- These programs address localized storm water drainage system problems including inadequate level of service due to underground storm sewer capacity, roadside ditch grade deterioration and encroachments, inlet capacity, and/or structural failure of the storm sewer or outfall. Engineering and construction are accomplished by work order contracts in order to address these problems quickly and cost effectively. The FY2025-2029 CIP commits approximately \$208 million to these programs.

Storm Drainage System Projects deferred to future CIPs:

The following projects were previously listed in Adopted CIPs and will be prioritized for construction as additional funding is identified in future CIPs.

M-410007-0001	Gulfway Terrace Sec 1 Area
M-410019-0001	Sharpstown Area 2
M-410021-0001	Pinewood Village 2
M-410022-0001	Garden Oaks and Shepherd Park (East)
M-410027-0002	Richmond Plaza 1 (North)
M-410036-0002	Spring Shadows Area
M-410038-0001	Central Park Area

Project Allocation	Fiscal Year Planned Appropriations					2025-2029
	2025	2026	2027	2028	2029	
Planning						
Acquisition-Land						
Design	13,661	12,450	8,950	10,950	8,950	54,961
Construction	175,779	369,075	58,055	93,975	119,555	816,440
Equipment Acquisition						
Salary Recovery						
Other	30,122	60,796	18,000	18,000	18,000	144,917
Total Allocation	219,562	442,321	85,005	122,925	146,505	1,016,318
Source of Funds						
2302 - Stormwater Fund	25,000	25,000	25,000	25,000	25,000	125,000
4042 - DDSRF CAPITAL FUND-DRAINAGE CHARGE	114,392	150,516	60,005	78,950	111,505	515,368
4046 - DDSRF CAPITAL FUND-AD VALOREM TAX	43,022	24,787		18,975		86,784
4510 - Contribution for Capital Projects	3,491	86,225			10,000	99,716
5000 - Federal Government - Grant Funded	15,989	39,331				55,320
5430 - Federal State Local - HPW Pass thru DDSR	17,667	116,462				134,129
8500 - HPW-W&S Syst Consolidated Constr Fd						
Total Funds	219,562	442,321	85,005	122,925	146,505	1,016,318

Some projects in this sections are related to the impact of Hurricane Harvey DR4332 and it is the City's intent to seek reimbursement from the Federal Emergency Management Agency (FEMA) and any other eligible sources for such expenditures, with the FEMA share being 90% of eligible costs.

**STORM DRAINAGE SYSTEM - Summary of Funds
2025-2029 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

CIP No.	Project	Fiscal Year Planned Appropriations					2025-2029
		2025	2026	2027	2028	2029	
M-000247	Nottingham & Yorkshire Area						
	4046 - DDSRF CAPITAL FUND-AD VALOREM TAX		13,374				13,374
	8500 - HPW-W&S Syst Consolidated Constr Fd		5,374				5,374
	Project Total		18,748				18,748
M-410002	Potomac and Nantucket Area						
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR		13,201				13,201
	8500 - HPW-W&S Syst Consolidated Constr Fd		3,001				3,001
	Project Total		16,202				16,202
M-410005	Spring Shadows (North)						
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR		14,785				14,785
	Project Total		14,785				14,785
M-410006	Arlington Heights Area						
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR		10,297				10,297
	8500 - HPW-W&S Syst Consolidated Constr Fd		4,918				4,918
	Project Total		15,215				15,215
M-410013	Melrose Park Area						
	5000 - Federal Government - Grant Funded		19,988				19,988
	Project Total		19,988				19,988
M-410015	Magnolia Park Area						
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	8,199					8,199
	8500 - HPW-W&S Syst Consolidated Constr Fd	5,187					5,187
	Project Total	13,386					13,386

STORM DRAINAGE SYSTEM - Summary of Funds
2025-2029 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CIP No.	Project						2025-2029
		2025	2026	2027	2028	2029	
M-410016	Westridge and Braes Terrace Area						
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	5,649					5,649
	4046 - DDSRF CAPITAL FUND-AD VALOREM TAX	1,000	8,608		6,685		16,293
	8500 - HPW-W&S Syst Consolidated Constr Fd		2,069		2,275		4,344
	Project Total	6,649	10,677		8,959		26,286
M-410019	Sharpstown Area 2						
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	2,122					2,122
	Project Total	2,122					2,122
M-410024	Southland Area						
	4046 - DDSRF CAPITAL FUND-AD VALOREM TAX				12,291		12,291
	8500 - HPW-W&S Syst Consolidated Constr Fd				1,362		1,362
	Project Total				13,653		13,653
M-410025	Inwood Forest Area						
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR		25,629				25,629
	8500 - HPW-W&S Syst Consolidated Constr Fd		10,913				10,913
	Project Total		36,542				36,542
M-410028	Westbury Area						
	4046 - DDSRF CAPITAL FUND-AD VALOREM TAX	15,659					15,659
	4510 - Contribution for Capital Projects	2,500					2,500
	8500 - HPW-W&S Syst Consolidated Constr Fd	5,599					5,599
	Project Total	23,758					23,758
M-410029	Chateau Forest Area						
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	13,753					13,753
	8500 - HPW-W&S Syst Consolidated Constr Fd	2,002					2,002
	Project Total	15,755					15,755

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CIP No.	Project						2025-2029
		2025	2026	2027	2028	2029	
M-410033	Avalon Place						
	4046 - DDSRF CAPITAL FUND-AD VALOREM TAX		2,804				2,804
	Project Total		2,804				2,804
M-410035	Northside High School Area						
	4046 - DDSRF CAPITAL FUND-AD VALOREM TAX	16,611					16,611
	8500 - HPW-W&S Syst Consolidated Constr Fd	1,636					1,636
	Project Total	18,247					18,247
M-410038	Central Park Area						
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	3,711					3,711
	Project Total	3,711					3,711
M-410039	Cottage Grove East Area						
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	12,981					12,981
	4046 - DDSRF CAPITAL FUND-AD VALOREM TAX	9,752					9,752
	8500 - HPW-W&S Syst Consolidated Constr Fd	5,701					5,701
	Project Total	28,434					28,434
M-410040	Braeburn Glen Area Flood Mitigation						
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR		56				56
	4510 - Contribution for Capital Projects		3,100				3,100
	5430 - Federal State Local - HPW Pass thru DDSR		5,597				5,597
	Project Total		8,753				8,753
M-410041	Kuhlman Gully Mitigation						
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR				18,700		18,700
	Project Total				18,700		18,700

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CIP No.	Project						2025-2029	
		2025	2026	2027	2028	2029		
M-410042	OST/Griggs Area Drainage and Paving Impr							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR					17,300	17,300	
	Project Total					17,300	17,300	
M-410043	Freeway Manor/Gulfway Terrace Detention							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR					35,955	35,955	
	4510 - Contribution for Capital Projects					10,000	10,000	
	Project Total					45,955	45,955	
M-410291	Turkey Gully Diversion							
	5000 - Federal Government - Grant Funded		14,143				14,143	
	Project Total		14,143				14,143	
M-420126	Local Drainage Program (LDP)							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	16,889	12,950	12,950	12,950	12,950	68,689	
	4510 - Contribution for Capital Projects	991					991	
	Project Total	17,880	12,950	12,950	12,950	12,950	69,680	
M-42LHUD	CDBG Mitigation: Local Action Plan							
	5000 - Federal Government - Grant Funded	9,913					9,913	
	Project Total	9,913					9,913	
M-430006	Storm Water Action Team (SWAT)							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	20,000	20,000	20,000	20,000	20,000	100,000	
	Project Total	20,000	20,000	20,000	20,000	20,000	100,000	
M-430100	Pre-Engineering for Storm Water Drainage							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR		2,000		2,000		4,000	
	Project Total		2,000		2,000		4,000	

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CIP No.	Project						2025-2029	
		2025	2026	2027	2028	2029		
M-430220	Project Mgmt. Incl. Testing & Inspection							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	1,700	1,700	1,700	1,700	1,700	8,500	
	Project Total	1,700	1,700	1,700	1,700	1,700	8,500	
M-430241	Stormwater Pump Station & Flood Warning							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	1,000	1,000	1,000	1,000	1,000	5,000	
	Project Total	1,000	1,000	1,000	1,000	1,000	5,000	
M-430296	Regional Stormwater Detention							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	21,388	17,355	17,355	15,600	15,600	87,298	
	4510 - Contribution for Capital Projects		27,748				27,748	
	5000 - Federal Government - Grant Funded	6,076	5,200				11,276	
	5430 - Federal State Local - HPW Pass thru DDSR	7,667	24,276				31,943	
	Project Total	35,131	74,580	17,355	15,600	15,600	158,265	
M-430800	Developer Participation							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	3,000	3,000	3,000	3,000	3,000	15,000	
	Project Total	3,000	3,000	3,000	3,000	3,000	15,000	
M-43E101	HMGP North Canal Project							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR		13,844				13,844	
	4510 - Contribution for Capital Projects		55,377				55,377	
	5430 - Federal State Local - HPW Pass thru DDSR		54,492				54,492	
	Project Total		123,713				123,713	
M-43HCFC	Harris County Flood Control Dist Agrmt							
	5430 - Federal State Local - HPW Pass thru DDSR	10,000					10,000	
	Project Total	10,000					10,000	

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CIP No.	Project						2025-2029	
		2025	2026	2027	2028	2029		
M-43M009	Ditch Reestablishment Program							
	2302 - Stormwater Fund	25,000	25,000	25,000	25,000	25,000	125,000	
	Project Total	25,000	25,000	25,000	25,000	25,000	125,000	
M-450500	Storm Water Improvements Under R/S							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR		10,699				10,699	
	5430 - Federal State Local - HPW Pass thru DDSR		32,097				32,097	
	Project Total		42,796				42,796	
M-500001	Future Design							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR	4,000	4,000	4,000	4,000	4,000	20,000	
	Project Total	4,000	4,000	4,000	4,000	4,000	20,000	
M-NA0000	Funding Offset							
	8500 - HPW-W&S Syst Consolidated Constr Fd	-20,124	-26,275		-3,637		-50,037	
	Project Total	-20,124	-26,275		-3,637		-50,037	
	Total Appropriations:	219,562	442,321	85,005	122,925	146,505	1,016,318	