

Appendix 1C

Proposed or Ongoing Flood Mitigation Projects Summary

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Existing Project ID	Existing Project Name	Description	Counties	Project Status	Project Cost (\$)	Dedicated Funding for Construction	Planned Funding Source	Expected Completion Year	Anticipated Benefit
14000001	SOC1 & SOC2	Sediment/Detention Basin - SOC1; Sediment/Detention Basin - SOC2 (design not yet started); 51% will be a 0% interest loan; 49% will be a Flood Infrastructure Fund (FIF) grant	El Paso	Proposed	\$4,960,000	No	TWDB FIF, El Paso County – Pending (invited for submission of full FIF application)	2025	Mitigate downstream flooding and sediment load due to uncontrolled flows from Stream 4 through the breached El Paso Hills Dam
14000002	SSA1	Detention Basin SSA1 (design not yet started)	El Paso	Proposed	\$34,530,000	Yes	TWDB FIF, El Paso County	2024	Mitigate uncontrolled flows from arroyos A1, A2, and A3 causing flooding problems in downstream communities
14000003	HAC7	Sediment/Detention Basin at Location A; Sediment/Detention Basin at Location B (design currently ongoing)	El Paso	Proposed	\$5,990,000	Yes	TWDB FIF, El Paso County, City of El Paso	2025	Mitigate downstream flooding and sediment load due to uncontrolled flows from Stream 13.5
14000004	EA6A	Sam Snead Storm Drain System (Pico Norte to Lee Trevino) (currently under construction)	El Paso	Ongoing	\$4,532,000	Yes	El Paso Water CIP	2022	Mitigate street flows that travel too far over flat slopes causing flooding, street closures, and damage from Pico Norte St. to Lee Trevino Blvd
14000005	Keystone Dam Seepage Improvements	At Keystone Dam, install a toe drain, a toe berm, and a seepage collection system consisting of concrete lined ditch with a weir (in design by USACE)	El Paso	Proposed	\$1,500,000	Yes	USACE, El Paso Water	2024	Prevention of surficial erosion issues on Keystone Dam protecting urban area along Doniphan Drive
14000006	CAN1	Reconstruction of the channel with concrete lining	El Paso	Proposed	\$1,960,000	No	TWDB FIF, El Paso County – Pending (invited for submission of full FIF application)	2025	Stabilizes the existing channel and adds sufficient capacity to relieve flooding residences adjacent to the channel.
14000008	SSA6	Constructing two retention basins within the Sparks Community west of the Sparks Arroyo. North basin ± 8 acre-feet w/ 940-ft long concrete lined channel diverting water to it from the north and a 390-foot concrete lined channel from the south. South basin ±13 acre-feet w/ 980-ft long concrete lined channel diverting water to it from the north and a 250-foot concrete lined channel from the south.	El Paso	Proposed	\$2,700,000	Yes	Design and Construction of project to be funded by El Paso County for \$1,210,000 through CIP fund.	2024	Mitigate downstream flooding and sediment load due to runoff from the Sparks Community downstream of the Sparks Arroyo.
14000009	VIN12	Adding three more 9-foot by 5-foot culverts to the existing battery of culverts.	El Paso	Proposed	\$270,000	Yes	Design and Construction of project to be funded by El Paso County for \$70,000 through CIP fund.	2024	Stabilizes the crossing and adds sufficient capacity equal to the upstream end to relieve flooding.
140000010	SSA3	Constructing a 21 ft deep w/106 acre-ft of excavation for flood and sediment pool storage. detention basin near the lower end of Arroyos 5 and 6 at a location owned by the County. The outlet structure for this basin consists of a 2-foot RCP.	El Paso	Proposed	\$1,510,000	partial (design only)	Project has been approved for design documents through County CIP fund for \$151,000. Committed funding for construction has not been identified.	2024	Mitigate flooding problems for downstream communities from the uncontrolled flows from Arroyos A5 and A6

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140000011	FAB3	Constructing 1,165 ft of 4-ft-high parapet wall along the crest of Fabens Dam. East auxiliary spillway will be widened 100 feet to a total width of 150 feet.	El Paso	Proposed	\$1,750,000	partial (design only)	Project has been approved for design documents through County CIP fund for \$175,000. Committed funding for construction has not been identified.	2024	Mitigate the issue that the dam will not pass the 75% PMP
140000012	VIN6	Removing the existing 16-foot by 5-foot culvert and replacing it with three 9-foot by 8-foot culverts.	El Paso	Proposed	\$880,000	partial (design only)	Project has been approved for design documents through County CIP fund for \$88,000. Committed funding for construction has not been identified.	2024	Stabilizes the crossing and adds sufficient capacity equal to the upstream end to relieve flooding.
140000013	FAB1	Constructing a combination sediment/retention basin at the base of Fabens North 1. The basin embankment will be 15 feet high and will have a clay core, a polyurethane liner, a chimney drain, and will have 18-inch riprap on the interior face. Embankment height includes 5 feet of freeboard for PMP event. Approximately 27 acre-feet of excavation will be required for flood and sediment pool storage, of which a portion will be covered with a clay blanket. A box culvert principal outlet and an earthen auxiliary spillway will be included in the design.	El Paso	Proposed	\$3,310,000	Likely through FIF, but not committed	Project has been approved for design documents through County CIP fund for \$331,000. Committed funding for construction has not been identified.	2024	Mitigate downstream flooding and sediment load due to uncontrolled flows from Fabens North 1.
140000014	CE Dam 2	Upgrade Dam to meet TCEQ requirements	El Paso	Under final design	\$2,000,000	Design waiting for cost confirmation	The request from the PSB to City Council to authorize the issuance of \$25M within the next nine months to pay-off a line of credit that is used exclusively for Capital Improvement Program drainage projects for Fiscal Year 2022-23 (March 1, 2022-February 28, 2023), the other sources of funding besides the line of credit will be the FIF bonds and grant and our pay as you go funding estimated at \$8.7M. The total drainage CIP for the drainage utility for FY 2022-23 will be \$70M.	2023	Upgrade Dam to meet TCEQ requirements

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140000015	NW9	Construction of new debris and volume Dam to prevent breach of existing channel.	El Paso	Design Complete, going out to Bid 2022	\$3,000,000	Yes	The request from the PSB to City Council to authorize the issuance of \$25M within the next nine months to pay-off a line of credit that is used exclusively for Capital Improvement Program drainage projects for Fiscal Year 2022-23 (March 1, 2022-February 28, 2023), the other sources of funding besides the line of credit will be the FIF bonds and grant and our pay as you go funding estimated at \$8.7M. The total drainage CIP for the drainage utility for FY 2022-23 will be \$70M.	2024	Mitigate breach of existing channel
140000016	CE Dam 10	Upgrade Dam to meet TCEQ requirements	El Paso	Under final design	\$600,000	\$720k committed but may not be enough to construct up to TCEQ standards. May just cover maintenance.	The request from the PSB to City Council to authorize the issuance of \$25M within the next nine months to pay-off a line of credit that is used exclusively for Capital Improvement Program drainage projects for Fiscal Year 2022-23 (March 1, 2022-February 28, 2023), the other sources of funding besides the line of credit will be the FIF bonds and grant and our pay as you go funding estimated at \$8.7M. The total drainage CIP for the drainage utility for FY 2022-23 will be \$70M.	2023	Upgrade Dam to meet TCEQ requirements

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140000017	CE Dam 4	Upgrade Dam to meet TCEQ requirements	El Paso	Under final design	\$1,750,000	\$1.35M for Lower Memphis (under construction, to finish in 2022), \$400k for Upper (already completed), funded through CIP	The request from the PSB to City Council to authorize the issuance of \$25M within the next nine months to pay-off a line of credit that is used exclusively for Capital Improvement Program drainage projects for Fiscal Year 2022-23 (March 1, 2022-February 28, 2023), the other sources of funding besides the line of credit will be the FIF bonds and grant and our pay as you go funding estimated at \$8.7M. The total drainage CIP for the drainage utility for FY 2022-23 will be \$70M.	2022	Upgrade Dam to meet TCEQ requirements
140000018	NE3A	New Will Ruth Pond to catch FP 15 midstream	El Paso	Currently at 95% Design, Bid January 2023	\$26,300,000	TWDB FIF Grant \$5,110,000; Loan \$9,490,000, EPWater CIP \$11,692,000	TWDB FIF, EPWater Municipal Drainage Utility Revenue Bonds Series 2022	2025	The project will remove about 600 homes from the floodplain, prevent private property damage, reduce flooding of major streets, and increase safe traffic flow through Northeast El Paso
140000019	WC6A	Improve existing dam, build new basin	El Paso	Proposed	\$5,600,000	\$5,600,000 EPWater CIP	The request from the PSB to City Council to authorize the issuance of \$25M within the next nine months to pay-off a line of credit that is used exclusively for Capital Improvement Program drainage projects for Fiscal Year 2022-23 (March 1, 2022-February 28, 2023), the other sources of funding besides the line of credit will be the FIF bonds and grant and our pay as you go funding estimated at \$8.7M. The total drainage CIP for the drainage utility for FY 2022-23 will be \$70M.	2024	Reduce risk of sediment blockage of culverts under streets (Campbell, Kansas, Stanton, Mesa) and associated flooding

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140000020	MidV1	Add pumps in empty bays and upgrade electrical service of Clardy Fox PS	El Paso	Proposed	\$5,100,000	\$5,100,000 total, from \$3,825,000 USACE; \$1,275,000 EPWater	USACE; EPWater CIP	2024-2025	storm sewer system is being improved in the Clardy Fox neighborhood and current PS capacity is not enough to handle
140000021	MV7	Increase existing culvert capacity to two 5-ft x 5-ft concrete box culverts	El Paso	Under Construction	\$200,000	\$200,000 EPWater CIP	The request from the PSB to City Council to authorize the issuance of \$25M within the next nine months to pay-off a line of credit that is used exclusively for Capital Improvement Program drainage projects for Fiscal Year 2022-23 (March 1, 2022-February 28, 2023), the other sources of funding besides the line of credit will be the FIF bonds and grant and our pay as you go funding estimated at \$8.7M. The total drainage CIP for the drainage utility for FY 2022-23 will be \$70M.	2022	The following crossing on Playa Drain is undersized: Just Downstream of Yarbrough Drive (one 36-inch RCP).
140000022	NE9	Placing RCP culverts to divert Flowpath from Northgate Diversion Channel to Northgate Dam	El Paso	Proposed	\$5,400,000	EPWater paying 25%, USACE paying 75%, \$5.4M total for design and construction, EPWater funding \$1.35M, Expected to complete by 2025	USACE; EPWater CIP	2025	Relieves flooding and erosion issues at intersection of Hondo Pass Ave. and Hondo Pass Dr. due to flow from Northgate Diversion Channel