



Technical Memorandum

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Subject: City of Pflugerville Drainage CIP Project Prioritization Update



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This technical memorandum presents an update to the City of Pflugerville’s Drainage Master Plan Capital Improvement Projects (CIP) prioritization for **FY2024–2028**.

The Drainage Master Plan (DMP) was completed in August 2022 by Halff, and it should be considered a living document. The DMP, in Section 4.3, identified the ranking of 11 different drainage CIPs based on a scoring matrix that included four (4) major categories: Public Safety, Economic, Project Timing and Social. Each major category was assigned a weighting factor and projects were ranked accordingly. The final Drainage CIP Project Ranking from the Drainage Master Plan is shown below.

Table 4-1: Drainage CIP Project Ranking

Ranking	Project ID	Project Name	Project Score
1	GC-05	Immanuel Road/Pecan Park at Upper Gilleland Creek	81.7
2	WC-01	Weiss Lane at Wilbarger Creek	76.7
3	GC-01	Caldwell Elementary at Upper Gilleland Creek	75.0
4	WC-02	Hidden Lake Drive at Wilbarger Creek Tributary 200	74.0
5	GC-06	Pfennig Lane/East Pecan Street Intersection	73.3
6	WC-03	Vilamoura Street and Kelly Lane at Wilbarger Tributary 200	71.0
7	GC-03	Swenson Farms at Upper Gilleland Creek	70.0
8	GC-02	North Heatherwilde at Upper Gilleland Creek	66.7
8	GC-04	Railroad Avenue at Upper Gilleland Creek	66.7
10	WC-05	FM 685/East Pflugerville Pkwy at Wilbarger Creek Tributary 200	59.3
11	WC-04	Kennemer Drive at Wilbarger Creek Tributary 200	56.3

Note: Table 4-1 from Drainage Master Plan (August 2022)



For the current FY2024 City of Pflugerville budget, the ranking of these drainage CIPs needs to be updated to account for programmatic changes that have occurred since the completion of the DMP and to accommodate priorities for other programmed projects in the City. Another goal for this update is to maximize the budgets required to implement these Drainage CIPs to help remove more structures and properties from the floodplain in anticipation of FEMA floodplain mapping updates due to Atlas 14 that includes higher rainfall totals distributed across the City of Pflugerville.

The updated CIP ranking of projects includes eight of the previously identified projects from the Drainage Master Plan (Table 4-1 above) to move forward with funding from FY2024-FY2028 and also includes three additional projects: Drainage Utility Implementation and Utility Rate Implementation, Downtown Regional Detention Pond(s), and Flood Warning System. A summary of the updates to the project ranking between the FY2024-2028 Drainage CIP and the Drainage Master Plan (August 2022) is shown below.

CIP Rank Solutions FY2024	DMP Rank (August 2022)	Project No.	Project Name
NA	NA	DR2301	Drainage Utility Implementation and Utility Rate Implementation
NA	NA	DR2401	Downtown Regional Detention Pond(s)
1	1	DR2402	Immanuel Road/Pecan Park at Upper Gilleland Creek Channel Improvements
2	3	DR2403	Caldwell Elementary at Upper Gilleland Creek Channel Improvements
NA	NA	DR2405	Flood Warning System
3	8	DR2501	Railroad Avenue at Upper Gilleland Creek Channel Improvements
4	5	DR2502	Pfennig Lane Intersection N at Upper Gilleland Creek Drainage Improvements
5	7	DR2601	Swenson Farms at Upper Gilleland Creek Channel Improvements
6	8	DR2602	N. Heatherwilde at Upper Gilleland Creek Channel Improvements
7	2	DR2701	Weiss Lane at Wilbarger Creek Tributary Drainage Improvements
8	4	DR2702	Hidden Lake Drive at Wilbarger Creek Tributary Drainage Improvements

Note: CIP Rank Solutions FY2024 represents the recommended updated ranking

The Drainage CIP project of Vilamoura Street and Kelly Lane at Wilbarger Tributary 200 (Project WC-03) has been previously funded, so it has been removed from the 5-year CIP. The Drainage CIP Projects including FM 685/East Pflugerville Parkway at Wilbarger Creek Tributary 200 (Project WC-05) and Kennemer Drive at Wilbarger Creek Tributary 200 (Project WC-04) are not included in the 5-year CIP but will be programmed for design and construction in future years beyond FY2028.

In summary, to account for programmatic changes that have occurred since the completion of the DMP in August 2022 and to maximize budgets required to implement these Drainage CIPs, Halff recommends updating the prioritization and ranking of the projects as shown in the table above for FY2024-2028.