Countywide Programs, Planning & Maintenance

1. Stormwater Feasibility and Preliminary Design (P/N 51144)
   This project includes funding for long range strategic planning for future program progression, capital improvement project identification and prioritization, specific basin issue evaluation and funding appropriation analysis. Individual Project Feasibility Studies will be funded from this project and guided by the project ranking criteria established in the Planning process identified in Attachment A.

2. NPDES MS4 Program (P/N 60121)
   Funding within this project covers continued development of and compliance with the federally mandated National Pollutant Discharge Elimination System (NPDES) permitting program for the County operated Municipal Separate Storm Sewer System (MS4).

3. Stormwater Maintenance (P/N 60194)
   This project includes funding of various maintenance activities associated with certain existing county stormwater management assets such as the Freedom Park water quality treatment system, Serenity Park’s surface water management area, and the Wiggins Pass Road area surface water flow way.

Infrastructure & Capacity Projects

4. Golden Gate City Outfall Replacements (P/N 51029)
   This project includes improvements to the collection, treatment and conveyance of urban stormwater runoff by restoring and upgrading an antiquated system installed in early 1960s within the four-square-mile area known as Golden Gate City (GGC). The GGC canal system flows into Naples Bay via the Main Golden Gate Canal. The project includes replacement and improvements to the existing aging infrastructure such as the removal of old catch basins replaced with ditch bottom inlets with grates to catch debris, the addition of sumps at catch basin locations to act as sediment traps, re-grading and sodding of swales to prevent erosion, and provide water quality improvement.

5. Gateway Triangle Improvements (P/N 51803)
   Construction of the pond and pump station has been completed. The pumping station is designed to discharge treated stormwater runoff to two different locations: one south of US 41, and one into a new stormwater system along the west side of Brookside Drive north of Davis Blvd (north outfall). Currently, the north outfall is closed (Brookside). A study has been completed demonstrating that utilization of the Brookside outfall will have no adverse impacts to the adjacent homes or streets in the neighborhood. A multiyear water quality testing program was instituted in 2016 to analyze the quality of both the surface water in the Gateway area stormwater pond and the Brookside canal. Brookside Homeowners Association coordination continues, as well as planning for water level sensor installation and pump station control upgrades.

6. Eagle Creek Weir (P/N 60124)
   Due to documented structural and mechanical deficiencies as well as operational and maintenance issues (2012 CH2M-Hill Report), this project was initiated to rehabilitate and enhance an existing water control structure. Three (3) spillway gates have been replaced in the first phase of work. A second phase is scheduled to construct a safe maintenance access
area. The phase two cost is covered by existing FY 18 funds. No additional funding is anticipated or indicated in this AUIR.

7. **Pine Ridge Stormwater Management Improvements (P/N 60126)**
   A feasibility study/master plan was completed in 2017 to serve as a guide for this area’s future projects. Improvements in the Pine Ridge Estates Area include replacement of existing aging infrastructure such as catch basins, culverts and re-grading and sodding of roadside swales. Current work includes design of outfall improvements in Basin 6.

8. **Haldeman Creek Weir Replacement (P/N 60103)**
   The Haldeman Creek Weir Replacement project is complete. Work included a full replacement of an existing surface water management control structure located at the freshwater/saltwater interface of Haldeman Creek just north of US 41 in East Naples. The previous structure reached the end of its useable life cycle as noted in the 2012 CH2M-Hill Report. The replacement structure includes a modern, state-of-the-art water control gate adaptable to fluctuating tidal conditions and can be retrofitted with automation technology, as a future phase of this project.

9. **Pine Ridge Canal Weir Replacement (P/N 60119)**
   The Pine Ridge Canal Weir has current documented structural and mechanical deficiencies as well as operational and maintenance issues (2012 CH2M-Hill Report). The new replacement weir is currently under design. Construction schedule has been delayed approximately one year to coordinate with planned private redevelopment of the adjacent area. The construction cost is covered by existing FY 18 funds.

10. **Vanderbilt Drive Area Stormwater Improvements (P/N 60122)**
    This project is a multi-phased project that includes reconstruction of the roadside swale along the east side of Vanderbilt Drive adjacent to Naples Park, and reconstruction of the roadside stormwater management system of the Conner’s Sub-division (west of Vanderbilt Drive). Construction commenced on October 2016 with expected completion date of April 2019.

11. **Immokalee Stormwater Improvements (P/N 60143)**
    This project includes an update to the Immokalee Stormwater Master Plan, future stormwater treatment pond sighting feasibility analysis, coordination with the Lake Trafford Management Group, and the Immokalee Water and Sewer District. Future stormwater management improvement projects, as prioritized by the master plan update, will be fully coordinated and vetted with the Immokalee Community Redevelopment Agency.

12. **Naples Park Area Stormwater Improvements (P/N 60139)**
    In coordination with the Public Utilities Division, this project includes water main and sanitary sewer collection system replacements, as well as roadside stormwater management system improvements. Roadside stormwater improvements are occurring in conjunction with utility replacement work on all east-west streets in the Naples Park Subdivision. This is a multi-year, multi-phase project.

13. **W. Goodlette-Frank Rd Area Stormwater Improvements (FKA Ridge St.) (P/N 60142)**
    In coordination with the City of Naples Wastewater Collection System improvements project, project planning and design is currently complete to address stormwater (flooding) problems and existing septic system failures during periods of high rainfall on several streets between Goodlette-Frank Road and US-41. Stormwater runoff from the area flows east into the upper
Gordon River then to Naples Bay, both sensitive impaired bodies of water. Work will include water quality improvements designed to decrease stormwater runoff nutrient concentrations.

14. Harbor Lane Brookside (P/N 60195)
Harbor Lane is a street in the Brookside neighborhood which needs surface and possibly base refurbishment. The street’s stormwater management system has reached the end of its life span and needs reconstruction as well. A new stormwater management system is currently under design. The design includes new culverts and catch basins as well as necessary water quality improvements. The Brookside neighborhood discharges stormwater into Naples Bay, an impaired waterbody. Construction is currently planned for FY 20 pending availability of funds. Contingent upon successful completion of the Harbor Lane improvements, the few remaining streets in the Brookside neighborhood will be considered for future work when funds become available. Vetting of all work within the Brookside HOA is beginning now during the design phase. City of Naples watermain replacement is also being considered as part of this project.

15. Lely Branch Canal Weir (P/N TBD)
This project will include the construction of a new weir just north of Rattlesnake Hammock Road to maintain historic dry season water levels in the area without reducing the conveyance capacity of the newly improved system – Lely Branch Canal. The structure design and permitting is complete. Construction is currently scheduled for FY 19, with FY18 appropriated funds.

16. North Golden Gate Estates Flowway (AKA GGWIP) (P/N 60127)
Effort includes developing strategies to redirect stormwater runoff in the North Golden Gate Estates (NGGE) area. The goal of this initiative is to consider the feasibility of utilizing surrounding low-lying wetland areas for wet season surface water storage. Increasing water storage at the source could decrease the rate and volume of stormwater runoff currently conveyed to the roadside swale and ditch system and ultimately into the canal system. The work includes analysis of potential linking of areas by multiple culvert installations under estates roads. Project benefits include City and County potable water well field recharge, reduction of fresh water flows into Naples Bay via the Golden Gate Main Canal, and hydrologic restoration of the existing wetlands in Golden Gate Estates.

17. Upper Gordon River Stormwater Improvements (P/N 60102)
The focus of this project is on the northern-most portion of the Gordon River north of Golden Gate Parkway, upstream of the natural section of the Gordon River and Naples Bay. Work may include partnership with several surrounding golf courses, one or two water control structure replacements, exotic vegetation removal with possible supplemental native vegetation plantings to improve water quality, channel conveyance improvements and aquifer recharge and storage components.

18. Griffin Road Area Stormwater Improvements (P/N 60196)
The Griffin Road Area Stormwater Improvement Project is located near the southwestern terminus of Griffin Road in the East Naples area of Collier County off of US41 (Tamiami Trail) and Barefoot Williams Road. The project includes construction of a water quality treatment area on Rookery Bay National Estuarine Research Reserve property. The focus of the project is to provide water quality treatment facilities and an adequate stormwater outfall for the area to reduce frequency of flooding.
19. LASIP (P/N 51101)
The Lely Area Stormwater Improvement Project (LASIP) is a large master planned project involving major improvements to the Lely Canal, Lely Branch Canal, and Lely-Manor Canal systems in the East Naples area. After over 25 years of planning and construction the effort is essentially complete. Current activities consist of project permitting close out, maintenance and monitoring, and curing outstanding orders of taking through mediation and legal proceedings stemming from acquisition of necessary drainage, maintenance and access easements. The cost of these activities is covered by existing FY 18 funds. No additional funding is anticipated or indicated in this AUIR.

20. RESTORE (P/N TBD)
This is a new, large, comprehensive watershed improvement initiative currently in a conceptual planning stage. The initiative includes development of a suite of projects to be competed in phases, all with the goal of rehydrating and restoring historic, wet season surface water overland flow principally within the Belle Meade region of Collier County. Project concepts and a multiyear plan have been submitted to the state and the US Department of the Treasury to gain authorization for use of RESTORE Act funds to further the initiative.

21. Weir Automation (P/N TBD)
This is one of many future initiatives being programmed as resources and funding becomes available. Current projects involving work on several water flow and level control structures (weirs) are in various stages of implementation. “Work” includes planning and design of powered weir gate operations and remote operation capability. All new and rehabilitated weirs with manually adjustable control gates are being considered for this potential future automation upgrade.

22. I-75 Interconnect (P/N TBD)
Feasibility and preliminary design for a potential joint project with the Big Cypress Basin/South Florida Water Management District to better manage flows within the Immokalee Road / Cocohatchee Canal and the I-75 canal during storms, times of peak flows, etc