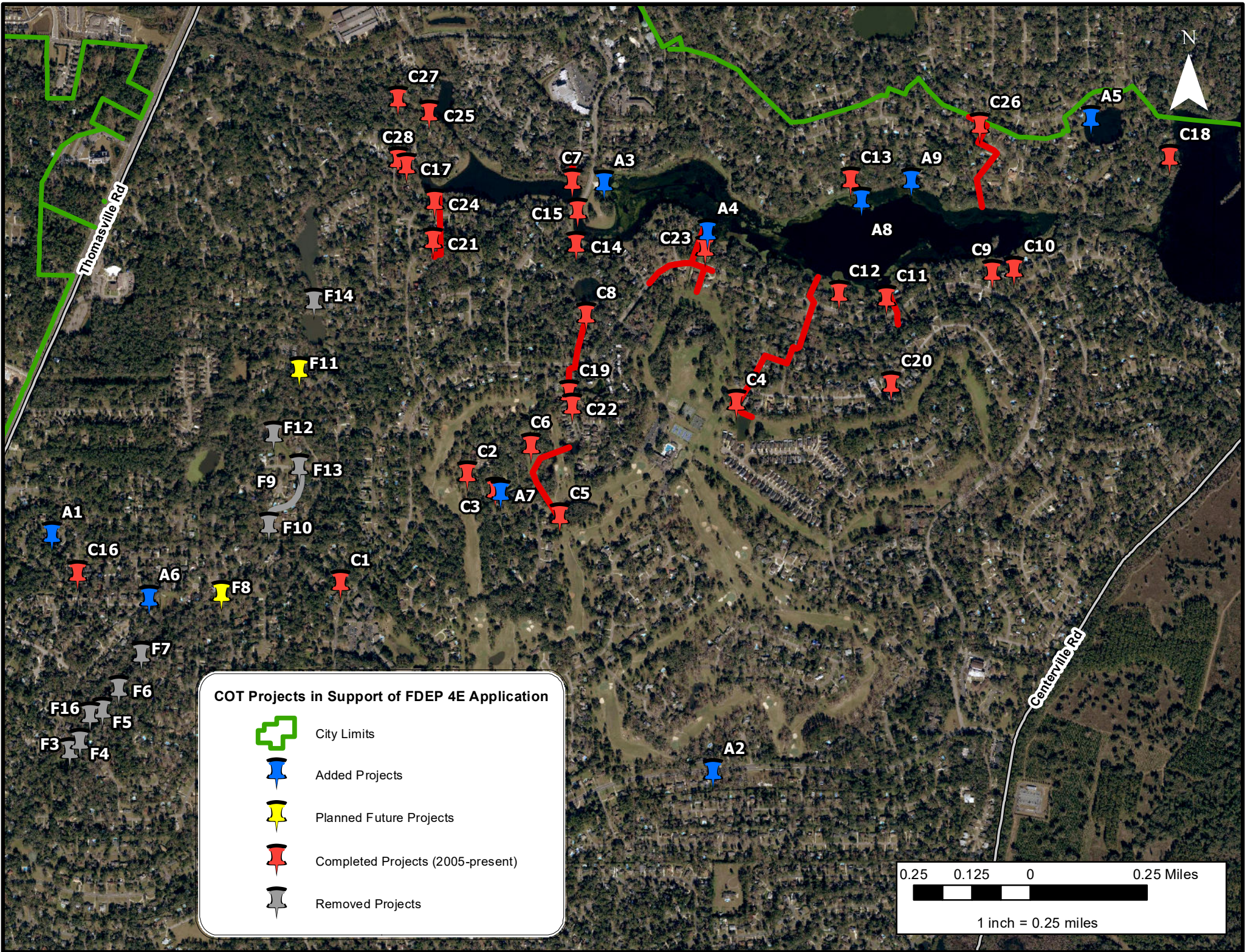




City of Tallahassee Stormwater Projects in Killearn Chain of Lakes Watershed

Category 4e Projects - Updated March 2021

Completed Projects (2005-present)

| Map ID | Project Name                                                                            | Description                                                                       | Completion Date         |
|--------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|
| C1     | 3742 Shamrock and 3745 Lifford Circle                                                   | Flood & sediment transport reduction.                                             | April 2006              |
| C2     | 4036 Brandon Hill                                                                       | Flood & sediment transport reduction.                                             | September 2006          |
| C3     | 4029 and 4033 Brandon Hill                                                              | Flood & sediment transport reduction.                                             | September 2006          |
| C4     | Killearn Golf and Country Club Pond Retaining Wall                                      | Erosion control, flood & sediment transport reduction.                            | June 2008               |
| C5     | 2925 Edenderry Drive                                                                    | Erosion control & sediment transport reduction.                                   | February 2009           |
| C6     | 2495 Edenderry Drive                                                                    | Flood & sediment transport reduction.                                             | Tuesday, March 01, 2011 |
| C7     | Villages of Killearn/Kinsale Drive Outfall Improvements                                 | Ditch stabilization, sediment removal at MS4 outfall.                             | May 2009                |
| C8     | Bay Shore Drive Stormwater Outfall Improvement (Phase II)                               | Ditch stabilization, flood & sediment transport reduction.                        | September 2011          |
| C9     | 3110 Shamrock North - Public Works Operations                                           | MS4 outfall rehab. Headwall construction, slope stabilization & sediment removal. | June 2012               |
| C10    | 4004 McLaughlin - Public Works Operations                                               | MS4 outfall rehab. Headwall construction, slope stabilization & sediment removal. | June 2012               |
| C11    | 3074 Shamrock North - Public Works Operations                                           | MS4 outfall rehab. Headwall construction, slope stabilization & sediment removal. | July 2012               |
| C12    | 3058 Shamrock North - Public Works Operations                                           | MS4 outfall rehab. Headwall construction, slope stabilization & sediment removal. | July 2012               |
| C13    | 3187 Ferns Glen - Public Works Operations                                               | MS4 outfall rehab. Headwall construction, slope stabilization & sediment removal. | September 2012          |
| C14    | 2911 Bay Shore - Public Works Operations                                                | Flood & sediment transport reduction.                                             | October 2012            |
| C15    | Shannon Lakes West Cross Drain (Lk. Kinsale to Lk. Killarney) - Public Works Operations | Remove sediment from MS4 culvert outfall.                                         | October 2012            |
| C16    | Runnymede Road Drainage Improvements                                                    | Flood & sediment transport reduction.                                             | December 2012           |
| C17    | 2612 Bantry Bay - Public Works Operations                                               | MS4 outfall rehab. Slope stabilization & sediment removal                         | March 2013              |
| C18    | 5052 Tallow Point - Public Works Operations                                             | MS4 outfall rehab. Slope stabilization & sediment removal.                        | March 2013              |
| C19    | Shamrock North at Edenderry Drive (Bay Shore Drive Stormwater Outfall Phase I)          | Ditch stabilization, flood & sediment transport reduction.                        | February 2011           |
| C20    | 3065/3068 Obrien Drive                                                                  | Flood & sediment transport reduction.                                             | January 2013            |
| C21    | 4052 Roscrea                                                                            | Flood & sediment transport reduction.                                             | June 2014               |

| Map ID                | Project Name                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Completion Date |
|-----------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| C22                   | Pebble Creek Drainage Improvements (River Chase and Ironwood) | Flood & sediment transport reduction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | June 2013       |
| C23                   | 3015/3016 Shamrock North (sag east of Edenderry)              | MS4 outfall rehab. Headwall construction, slope stabilization, flood & sediment transport reduction, sediment removal at MS4 outfall area to Killarney.                                                                                                                                                                                                                                                                                                                                                              | December 2014   |
| C24                   | 2632 Bantry Bay - Public Works Operations                     | MS4 outfall rehab. Slope stabilization & sediment removal.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | July 2015       |
| C25<br>(formerly F16) | 4720 Tory Sound                                               | Sediment has accumulated at the Tory Sound Lane and Bantry Bay Drive MS4 outfalls into Lake Kinsale. Removal of these sediments will prevent their resuspension within Lake Kinsale during significant storm events.                                                                                                                                                                                                                                                                                                 | November 2015   |
| C26<br>(formerly F1)  | 3244 Shannon Lakes                                            | Flood, erosion & sediment transport reduction project. Project includes storm drain and headwall construction, lake shoreline stabilization, and sediment removal at outfall area of MS4. Project also replaces an open ditch with eroded side banks with an underground piping system with a grassed swale on top. Project reduces flooding, yard erosion and the transport of sediments and nutrients due to overland flow by capturing, collecting and conveying stormwater runoff underground to Lake Killarney. | June 2016       |

| Map ID                 | Project Name                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                         | Completion Date |
|------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| C27 (Formerly F2, C30) | Tory Sound Lane Drainage Improvements            | The drainage improvements includes modifications to roadside inlets and piping systems along Tory Sound Lane. Project reduces flooding of residential properties with resultant reductions in the transport of sediment into Lake Kinsale due to overland flows. Ditch stabilization at upstream end of cross drain is included in the culvert project.                                                             | February 2018   |
|                        | Bantry Bay Drive Cross Drain Culvert Replacement | Several residential properties upstream of Bantry Bay Drive experience yard flooding which in turn creates yard erosion that transports sediment and nutrients downstream to Lake Kinsale. The overland flooding, yard erosion and sediment and nutrient transport can be reduced by improving the capacity of the Bantry Bay cross drain. No increase in runoff volume will occur as a result of the improvements. | July 2019       |

**Planned Future Projects**

| Map ID | Project Name                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Completion Date (estimate) | Status  | Notes                                                                                                                                                                                                                                                                    |
|--------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F3     | Wallwood Heights Outfall Rehabilitation | Improve an existing flume, which conveys runoff from the upstream residential subdivision. Construct new inlet structure at the reconstructed flume outfall and stabilize the ditch side slope. The project will reduce the quantity of sediment being displaced from Royal Oaks Creek. Capture of excessive runoff in a new storm drain drop structure will dissipate energy prior to discharge into an altered watercourse thereby reducing the transport of sediment into Lake Kinsale.     | December 2018              | Removed | Wallwood Heights and Barbary Drive Outfall Repairs. An erosion and sediment transport specialist studied the area and concluded restoration of this system is not practical. Consulted with Operations staff who agrees outfalls do not pose any immediate risk.         |
| F4     | Shannon Forest Outfall #1               | Stabilization and improvement of eroded outfalls will reduce the amount of sediments currently being transported downstream into Lake Kinsale. Filling voids in existing side banks, stabilization around several existing outfall structures within Royal Oaks Creek, coupled with construction of flumes to convey flows from the outlets down to the invert of Royal Oaks Creek will reduce erosion and improve water quality by reducing erosion and the transport of sediment downstream. | December 2018              | Removed | Royal Oaks Stormwater Improvements (Royal Oaks Creek Study).An erosion and sediment transport specialist studied the area and concluded restoration of this system is not practical. Consulted with Operations staff who agrees outfalls do not pose any immediate risk. |

| Map ID | Project Name              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Completion Date |         |                                                                                                                                                                                                                                                                           |
|--------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F5     | Shannon Forest Outfall #2 | Stabilization of eroded outfall structures will reduce the amount of sediments currently being transported downstream into Lake Kinsale. Filling voids in existing side bank stabilization around several existing outfall structures within Royal Oaks Creek, coupled with construction of flumes to convey flows from the outlets down to the invert of Royal Oaks Creek will reduce erosion and improve water quality by minimizing the transport of sediments downstream. | December 2019   | Removed | Royal Oaks Stormwater Improvements (Royal Oaks Creek Study). An erosion and sediment transport specialist studied the area and concluded restoration of this system is not practical. Consulted with Operations staff who agrees outfalls do not pose any immediate risk. |
| F6     | Shannon Forest Outfall #3 | Stabilization of eroded outfall structures will reduce the amount of sediments currently being transported downstream into Lake Kinsale. Filling voids in existing side bank stabilization around several existing outfall structures within Royal Oaks Creek, coupled with construction of flumes to convey flows from the outlets down to the invert of Royal Oaks Creek will reduce erosion and improve water quality by minimizing the transport of sediments downstream. | December 2019   | Removed | Royal Oaks Stormwater Improvements (Royal Oaks Creek Study). An erosion and sediment transport specialist studied the area and concluded restoration of this system is not practical. Consulted with Operations staff who agrees outfalls do not pose any immediate risk. |
| F7     | Shannon Forest Outfall #4 | Stabilization of eroded outfall structures will reduce the amount of sediments currently being transported downstream into Lake Kinsale. Filling voids in existing side bank stabilization around several existing outfall structures within Royal Oaks Creek, coupled with construction of flumes to convey flows from the outlets down to the invert of Royal Oaks Creek will reduce erosion and improve water quality by minimizing the transport of sediments downstream. | December 2019   | Removed | Royal Oaks Stormwater Improvements (Royal Oaks Creek Study). An erosion and sediment transport specialist studied the area and concluded restoration of this system is not practical. Consulted with Operations staff who agrees outfalls do not pose any immediate risk. |

| Map ID | Project Name                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                        | Completion Date |         |                                                                                                                                                                                                                                                                                                                                              |
|--------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F8     | Royal Oaks Creek Sediment Sump #1       | The project involves the construction of a sediment sump at a strategic location along the Royal Oaks Creek. Capture of sediment within this sump will reduce the amount of sediment and nutrients transported downstream into Lake Kinsale.                                                                                                                                                                                                       | December 2021   | Active  | Royal Oaks Erosion Control                                                                                                                                                                                                                                                                                                                   |
| F9     | Royal Oaks Creek Channel Lining         | Construction of channel lining consisting of a combination of gabion baskets and reinforced ditch paving will alleviate the side bank erosion of a section of Royal Oaks Creek. This segment of the creek is currently eroding at a rapid rate, and repeated attempts to perform spot stabilization are short lived. By stabilizing the ditch with permanent revetment, reductions in erosion and associated sediment transport will be minimized. | March 2020      | Removed | Royal Oaks Erosion Control. Information gained during this project through the various evaluations and studies—along with input received from the public—identified the most pressing community needs which are being addressed, but has also eliminated some of the other potential capital improvements that were originally contemplated. |
| F10    | Royal Oaks Creek Sediment Sump #2       | The project involves the construction of an sediment sump at a strategic location along the Royal Oaks Creek. Capture of sediment within this sump will reduce the amount of sediment and nutrients transported downstream into Lake Kinsale.                                                                                                                                                                                                      | March 2020      | Removed | Royal Oaks Erosion Control. Information gained during this project through the various evaluations and studies—along with input received from the public—identified the most pressing community needs which are being addressed, but has also eliminated some of the other potential capital improvements that were originally contemplated. |
| F11    | Forsythe Way Cross Drain Rehabilitation | Significant erosion at the outlet of this multiple pipe crossing is undermining the roadway, and eroding the side banks of Royal Oaks Creek. Construction of culvert extensions combined with stabilization and energy dissipation at the culvert outlets will stem the erosion and subsequently reduce the amount of nutrient laden sediments conveyed downstream.                                                                                | December 2021   | Planned | Forsythe Way Erosion Control                                                                                                                                                                                                                                                                                                                 |

| Map ID | Project Name                      | Description                                                                                                                                                                                                                                                                                                                                                  | Completion Date |         |                                                                                                                                                                                                                                                                                                                                              |
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| F12    | Royal Oaks Pond Sediment Removal  | Removal of sediment accumulation at the outfall of Royal Oaks Pond will improve water quality by minimizing the potential for sediments and nutrients being re-suspended in the water column during significant storm events. Removal of this sediment will reduce the potential for re-suspension and transport downstream during significant storm events. | TBD             | Removed | Royal Oaks Erosion Control. Information gained during this project through the various evaluations and studies—along with input received from the public—identified the most pressing community needs which are being addressed, but has also eliminated some of the other potential capital improvements that were originally contemplated. |
| F13    | Royal Oaks Creek Sediment Sump #3 | The project involves the construction of an sediment sump at a strategic location along the Royal Oaks Creek. Capture of sediment within this sump will reduce the amount of sediment and nutrients transported downstream into Lake Kinsale.                                                                                                                | March 2020      | Removed | Royal Oaks Erosion Control. Information gained during this project through the various evaluations and studies—along with input received from the public—identified the most pressing community needs which are being addressed, but has also eliminated some of the other potential capital improvements that were originally contemplated. |
| F14    | Small Pond Outfall Rehabilitation | An improved pond outfall spillway will minimize the transport of sediments by eliminating the erosion of the pond bank around the spillway, and by controlling the elevation in the pond at the desired level.                                                                                                                                               | May 2020        | Removed | Royal Oaks Erosion Control. Information gained during this project through the various evaluations and studies—along with input received from the public—identified the most pressing community needs which are being addressed, but has also eliminated some of the other potential capital improvements that were originally contemplated. |

| Map ID            | Project Name                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                     | Completion Date |           |                                                                                                                                                                                                                                                                                                                                              |
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| F16               | Ravine Stabilization                                                    | The project involves the construction of ditch break within the ravine between Shannon Forest and The Ravines neighborhood. The ditch breaks will stabilize the channel bottom thus greatly mitigating potential local erosion and sediment transport downstream. Mitigation of erosion in this area will reduce the amount of sediment and nutrients transported downstream into Lake Kinsale. | September 2020  | Removed   | Royal Oaks Erosion Control. Information gained during this project through the various evaluations and studies—along with input received from the public—identified the most pressing community needs which are being addressed, but has also eliminated some of the other potential capital improvements that were originally contemplated. |
| A1                | SPI Yardley Circle                                                      | This project addressed ditch erosion and flooding by regrading and rebuilding the ditch and constructing a new inlet.                                                                                                                                                                                                                                                                           | April 2017      | Completed | SPI Yardley Circle                                                                                                                                                                                                                                                                                                                           |
| A2                | Shamrock South at Foxford Drainage Improvements Phase 1                 | Project includes inlet upgrades in Shamrock South and construction of a stormwater management facility in the adjacent park. The stormwater management facility helps reduce erosion and floodign downstream.                                                                                                                                                                                   | July 2017       | Completed | SPI - Shamrock South at Foxford Drainage Improvements Phase 1                                                                                                                                                                                                                                                                                |
| A3 (formerly C27) | West End of Killarney @ Boat Ramp - MS4 Outfall Sediment Removal        | Maintenance of outfall area of MS4 pipe -- to Killarney. Sediment removal, approximately 32 truckloads of sediment removed (489 CY).                                                                                                                                                                                                                                                            | October 2017    | Completed |                                                                                                                                                                                                                                                                                                                                              |
| A4 (formerly C28) | 3016 N Shamrock - MS4 Outfall Sediment Removal                          | Maintenance of outfall area of MS4 pipe -- to Killarney. Sediment removal, approximately 25 truckloads of sediment removed (375 CY).                                                                                                                                                                                                                                                            | November 2017   | Completed |                                                                                                                                                                                                                                                                                                                                              |
| A5 (formerly C29) | Tallow Pond - MS4 Outfall Sediment Removal                              | Maintenance of outfall area of MS4 pipe -- to Killarney. Sediment removal, approximately 21 truckloads of sediment removed (315 CY).                                                                                                                                                                                                                                                            | March 2018      | Completed |                                                                                                                                                                                                                                                                                                                                              |
| A6                | 3753 Swallowtail Trace Drainage Improvements                            | The project involves construction of a revised outfall structure and modification of the paved ditch to reduce yard erosion.                                                                                                                                                                                                                                                                    | May 2018        | Completed | SPI - 3753 Swallowtail Trace Drainage Improvements                                                                                                                                                                                                                                                                                           |
| A7                | Brandon Hill Drainage Improvements                                      | The project consists of constructing a concrete retaining wall upstreamof Brandon Hill Drive adjacent to the Killearn golf course to hold back runoff during heavy rainfall events. Runoff will pond behind the retaining wall and be slowly released through a control structure downstream to its natural flow path.                                                                          | January 2021    | Completed | SPI - Brandon Hill Drainage Improvements                                                                                                                                                                                                                                                                                                     |
| A8                | 3187 Ferns Glen Drive - MS4 Outfall Sediment Removal                    | Maintenance of outfall area of MS4 pipe -- to Killarney. Sediment removal, approximately 50 truckloads of sediment removed (750 CY).                                                                                                                                                                                                                                                            | TBD             | Planned   | Operations project - water level dependent                                                                                                                                                                                                                                                                                                   |
| A9                | 3217/3221 Heather Hill Heather Hill Lane - MS4 Outfall Sediment Removal | Maintenance of outfall area of MS4 pipe -- to Killarney. Sediment removal, approximately 10 truckloads of sediment removed (150 CY).                                                                                                                                                                                                                                                            | TBD             | Planned   | Operations project - water level dependent                                                                                                                                                                                                                                                                                                   |