

TOWN COUNCIL

STAFF REPORT

Engineering Department



MEETING DATE:	February 9, 2021
SUBJECT:	Engineering Department Monthly Report
PROJECT MANAGER:	Bryan McIlwee, Director of Engineering

CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE

PATHWAYS

1. Goethe-Shults Sidewalks Phase 2

- Construction documents and easements are complete.
- Invitation for Bids were posted on 1/8/2021
- **Next Steps**
 - Obtain bids on 2/15/2021.
 - Submit contract for approval at the March Town Council meeting.

2. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting

- Phase 5 Kitty Road to 301 Buck Island Road, construction is complete. Design of street lighting is underway.
- Phase 6A along Simmons ville Road from Grayco northward to Sugaree Drive is under design and permit review. Invitation to bid to be posted in February.
- Phase 6B along Simmons ville Road from Sugaree Drive northward to the existing New Mustang Road sidewalks is under design.
- **Next Steps**
 - Phase 5 from Kitty Road to lot 310 Buck Island Road inspection and permit closeout.
 - Submit Phase 5 street lighting for an SCDOT encroachment permit. Install street lighting in the second quarter of 2021.
 - Phase 6 design and construction of the remaining Simmons ville Road sidewalks, to be completed in FY 2021-2022.

3. Bridge Street Streetscape

- Construction documents and permitting are underway for Phase 1 streetscape, Burnt Church Road to Calhoun Street. 70% construction drawings are complete and Staff provided plan comments to Cranston Engineering.

- SCDHEC 319 grant application was awarded for \$179,700 for drainage and water quality improvements.
 - **Next Steps**
 - Complete engineering design in February 2021.
 - Execute contract with Cranston Engineering to complete design modifications and reporting related to the 319 Grant.
 - Prepare easement plats, appraisals, obtain easements and issue bid documents in FY 2021.
 - Construction to start in FY 2022.
- 4. Boundary Street Streetscape**
- Obtained contract approval for engineering services with Thomas and Hutton.
 - Project kick off meeting on 1/28/21
 - **Next Steps**
 - Begin Preliminary Engineering Design in February 2021.
- 5. New Riverside Linear Trail**
- **Next Steps**
 - Begin surveying and prepare a Conceptual Master Plan in FY 2022, pending budget approval.
 - Research grant opportunities to fund planning and construction of future trail improvements.

SEWER & WATER

- 1. Buck Island-Simmons ville Sewer (Phases 5A-5D)**
- Construction is underway on Phase 5A-D.
 - **Next Steps**
 - Complete construction on Phase 5A-D by 7/1/21 contingent upon no extensive weather delays or unforeseen utility conflicts.
 - Start house connections after the main line is approved by DHEC.
- 2. Historic District Sewer Extension Phase 1 - Pritchard Street**
- Construction has started.
 - **Next Steps**
 - Start house connections after the main line is approved by DHEC.
- 3. Historic District Sewer Extension Phase 2 - Bridge Street**
- Received SCDHEC permit to construct.
 - Continue negotiations with property owners for right of entry agreements.

- **Next Steps**
 - Obtain road ownership from SCDOT.
 - Advertise for bids.
- 4. **Historic District Sewer Extension Phase 3 – Colcock Street**
 - Started surveying and design.
 - **Next Steps**
 - Review design drawings.
- 5. **Historic District Sewer Extension Phase 4 – Lawrence Street**
 - Started surveying and design.
 - **Next Steps**
 - Review design drawings.
- 6. **Historic District Sewer Extension Phase 5 – Green Street**
 - Started surveying and design.
 - **Next Steps**
 - Review design drawings.
- 7. **Historic District Sewer Extension Phase 6 – Water Street**
 - Started surveying and design.
 - **Next Steps**
 - Review design drawings.

HISTORIC DISTRICT IMPROVEMENTS

1. **Boundary Street Lighting**
 - Phase 2 photometric plans complete.
 - Received encroachment permit from SCDOT.
 - Lighting agreements approved by Town Council in May 2020.
 - Agreement has been executed by both parties.
 - Dominion Energy is negotiating modifications to SCDOT encroachment permits.
 - SCDOT and Dominion indicated poles must be installed on Private Property due to conflicts with Sewer Force Main along Boundary Street
 - **Next Steps**
 - Obtain easements as needed for Phase 2 street lighting.
 - Begin installation of street lighting in March 2021.
2. **Historic District Enhancements**
 - Watershed Management Staff is evaluating preliminary plans to prepare drainage solutions at AME Church.
 - Traffic calming guidelines and plan are being negotiated with engineering consultant.

- **Next Steps**
 - ADA ramps and crosswalks are being mapped in Cartegraph by GIS/IT.
 - Continue planning of crosswalks and ADA improvements.
 - Complete Traffic Calming Assessment and Plan.
- 3. **Calhoun Street Streetscape**
 - Conceptual Master Planning is complete and reviewed at the July Quarterly Workshop.
 - Obtained contract approval for Engineering services at the January 2021 Town Council meeting
 - Project Kick-off meeting on 1/28/2021.
 - **Next Steps**
 - Begin Engineering design in February 2021.
- 4. **Squire Pope Carriage House Preservation**
 - Construction Documents are complete and submitted to SHPO for a courtesy review.
 - **Next Steps**
 - Finalize any modifications to the Construction Documents and prepare bid solicitation package.
 - Awaiting budget approval for future construction.
 - Coordinate design of “Coming Soon” sign.

PARK DEVELOPMENT

1. **Oyster Factory Park**
 - Conceptual Master Plan has been updated and reviewed by Town Council at the January Quarterly Workshop.
 - **Next Steps**
 - Obtain ACOE and DHEC Permit for installation of salvaged dock components from Calhoun Street.
 - Begin final design of next phase of improvements per Town Council direction provided at the Workshop.
2. **68 Boundary Street Park Renovations**
 - Construction and maintenance contracts complete.
 - **Next Steps**
 - Fabricate Martin Family dedication sign prior to 4/8/2021 park dedication.
3. **Calhoun Street Dock and Public Riverfront Access Improvements**
 - Dock construction is complete.
 - **Next Steps**
 - Complete installation of Dock signage.

4. Wright Family Park

- Bulkhead, boardwalk, restroom building, perimeter sidewalks, landscaping and parking area are complete.
- Site signage, and furniture are 99% complete.
- **Next Steps**
 - Coordinate Ribbon Cutting Ceremony as pandemic allows.
 - Additional benches are on reorder and will be installed in February 2021.
 - Prepare change order to add a sidewalk connection from park to the hammerhead/dock.

5. Oscar Frazier Park

- **Next Step**
 - Sidewalk construction complete.
 - Continue planning of future improvements in FY 2022.

6. New Riverside Barn/Park

- Submitted grant application to LWCF for \$500,000.00 funding of the initial phase of the project. Application is under review by NPS and Staff expects to hear response in the Spring of 2021.
- Archeological Report complete as needed for Grant eligibility.
- Obtained Town Council approval of the Conceptual Master Plan at the December 2020 Council meeting.
- Obtained Proposals from Thomas and Hutton for Phase 1 Engineering design.
- **Next Steps**
 - Hart Howerton to complete Design Development drawings for Phase 1 site development and schematic design of barn improvements.
 - Complete construction drawings, cost estimating and permitting of Phase 1 development by July 2021.
 - Phase 1 bidding and construction anticipated to begin in FY 2022.

TOWN FACILITIES AND MISCELLANEOUS PLANNING**1. Buckwalter Place Multi-County Commerce Park**

- Buckwalter Place Park and Veterans Memorial are complete. Additional work was approved to modify irrigation system conversion from irrigation pond to BJWSA system.
- Executed contracts for Buckwalter Park restroom design with Thomas and Hutton and Pearce Scott Architects.
- Site planning for future development parcel underway with Cranston Engineering.
- Prepared estimate of probable construction cost and appraisal for future development site.

- **Next Steps**
 - Complete irrigation conversion at Park by January 2021.
 - Review progress plans for restroom building and utility extensions at Buckwalter Park.
 - Continue site planning for future development parcel.
- 2. Town of Bluffton Housing Project**
- Surveying and geotechnical services complete for 1095 May River Road and 115 Bluffton Road sites.
 - **Next Steps**
 - Planning and design to begin in FY 2021 as directed by Joint Venture Agreement.
 - Assist with the preparation of a comprehensive cost estimate for planning, design and construction for the various housing projects.
- 3. Law Enforcement Center Facility Improvements**
- Parking and Service Yard Expansion construction began in December 2020 with CBG Siteworks Construction.
 - Interior paint of Substation complete.
 - **Next Steps**
 - Continue construction of LEC service yard and parking improvements. Construction anticipated to be complete by the July 2021.
 - Information Technology department coordinating upgrades to building security systems.
- 4. Ghost Roads**
- Surveying and easement exhibits are complete.
 - Pritchard Street Quit Claim Deed exhibits are 95% complete.
 - The Town Attorney is working with Bridge Street property owners to obtain Quit Claim Deeds and agreement to extend service to homes.
 - Staff is meeting with individual property owners to raise awareness of the acquisition efforts and communicate next steps.
 - **Next Steps**
 - Continue meeting with individual property owners and obtaining quit claim deeds.
- 5. Community Safety Cameras**
- Cameras have been installed at Bluffton Road Public Parking Lot, Veterans Park, Wright Family Park, Calhoun Street Dock .
 - 14 older cameras in the network have been replaced.
 - **Next Steps**
 - Continue with camera replacements and upgrades as necessary.

6. Public Works Facility Improvements

- Finalize the plans for expanding of Public Works yard.
- Install new plumbing/ electric for the washer and dryer.
- **Next Steps**
 - Begin permitting and bid for the expansion of the yard.
 - Bid the installation of the plumbing / electric.

7. Rotary Community Center Facility Improvements

- Replace the hardwood floor in the main area.
- **Next Steps**
 - Request bids for the replacement of the new floor.

8. Watershed Management Facility Improvements

- Remove the carpet and install new flooring in the rear office space.
- **Next Steps**
 - Request quotes on completing the new flooring in the office.

DIVISION/STAFF UPDATES**Project Management**

Thirty-five (35) CIP projects are currently in progress. Don Ryan Center, Veteran Memorial, Buckwalter Park and BIS Phase 5 sidewalks, Wright Family Park and the Calhoun Street Dock have recently been completed. CIP projects including BIS Phase 5E sewer, and Pritchard Street sewer are currently under construction and nearing completion. The LEC Parking Expansion, BIS Phase 5A-D Sewer started construction in December 2020, and the Boundary Street Lighting projects is expected to start construction in March 2021. The remaining CIP projects are in the design phase and several are planned for construction in FY 2022.

Watershed Management**1. Southern Lowcountry Regional Board (SoLoCo)****a. Regional Southern Lowcountry Post Construction Stormwater Ordinance and Design Manual**

- Via concurrence of the Mayor and direction by the Town Manager, staff has participated in the SoLoCo Technical Working Group to develop a regional stormwater model ordinance and design manual and investigate the viability of a regional stormwater authority.
- 8/27/20 Unanimous recommendation from May River Watershed Action Plan Advisory Committee for adoption.
- 10/28/20 Unanimous recommendation from Planning Commission for adoption.
- 12/8/20 Town Council – 1st reading with unanimous approval.
- **Next Steps**
 - 2/9/21 Town Council – Public Hearing and 2nd reading.
 - Anticipated implementation date of 3/1/21.

2. Sea Level Rise Task Force

- Following Beaufort County's presentation and request for regional participation at the 10/22/19 SoLoCo meeting, staff is attending the Sea Level Rise Task Force meetings to discuss a possible No Fill Ordinance and county-wide sea level rise adaptation strategies.
- Meetings continue to discuss projected impacts of sea level rise on the region with a focus on ways that local government can respond through policies, ordinances and projects to mitigate the potential impacts of sea level rise.
- Internal staff reviews of draft documents complete and feedback provided to Task Force.
- Task Force met 12/15/20 and 12/18/20 to prioritize recommendations for final document.
- **Next Steps**
 - Beaufort County to present and request a recommendation from SoLoCo for regional partners to adopt.

3. Joint Councils Meeting for Watershed Management Initiatives

- BJWSA developed their CIP list for FY 2020 sewer projects which does not include any projects in the County's jurisdiction in the May River Headwaters without cost-sharing.
- Following the Joint Councils Meeting with BJWSA, held on 2/25/20, staff from Beaufort County and Town of Bluffton met to discuss sewer extension scope and strategy on 2/27/20.
- Staff from the Town, County, and BJWSA met via Zoom 3/27/20 to confirm project scope, cost, and potential project manager. the last project cost estimate to extend, connect, and abandon septic in the Stoney Creek project area is \$4.7 million (B. Chemsak email 7/22/19) but they anticipate those numbers increasing to \$5.5 million. The proposal is 1/3 cost-share, so the Town's portion would be approximately \$1.83 million. Beaufort County has not formally agreed or committed any funding.
- Neither BJWSA nor Beaufort County have committed funds in FY 2021 to begin sewer extension.
- Town Manager, Director of Engineering and staff met with BJWSA General Manager, Engineer and staff on 6/5/20 to discuss how to move the project forward.
- The Town submitted a response on 12/18/21 to BJWSA's "call for projects" request that prioritizes May River Watershed sewer projects.
- **Next Steps**
 - Staff is drafted a letter to Beaufort County requesting a commitment to cost-sharing sewer projects.

4. SC Department of Health and Environmental Control May River Shellfish Harvesting Monitoring Data Year-to-Date and May River Shellfish Harvesting Status Exhibit – Attachments 1 and 1a

5. **May River Watershed Action Plan Implementation Summary - Attachment 2**
6. **Municipal Separate Storm Sewer System (MS4) Program Update**
 - Staff is currently updating the Town's MS4 Stormwater Management Plan and supporting documentation. SCDHEC is currently in the process of developing a revised National Pollutant Discharge and Elimination (NPDES) Permit for Small MS4s and will re-issue to permittees, including the Town, in the future.
7. **MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**
 - No Beaufort County Stormwater Utility Board meeting in January 2021.
 - The May River Watershed Action Plan Advisory Committee met 1/21/21. The Committee unanimously recommended that Town Council adopt the May River Watershed Action Plan Update. **Attachment 3**
 - Staff is working the Town Digital Communication Manager to promote a series of MS4 stormwater educational tips and reminders for the Bluffton community via the Town's Facebook page.
 - Staff has tentatively set the date for the 2021 May River Cleanup for 5/01/21. Over the next several months, staff will be working to secure partnerships and coordinate this event.
8. **MS4 MCM – #3 Illicit Discharge Detection and Elimination**
 - Stormwater Infrastructure Inventory Map - **Attachment 4a**
 - *E. coli* Concentrations Trend Map - **Attachment 4b**
 - Monthly, Microbial Source Tracking (MST) Maps - **Attachments 4c and 4d**
 - Town staff coordinates with the SC Department of Health and Environmental Control (SCDHEC) to pull MST samples concurrently with the state's routine shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, and 19-24. SCDHEC will conduct sampling on 1/14/21. Staff will notify Council and Senior Staff of any pertinent findings from this sampling event via email.
 - Illicit Discharge Investigations – **Attachment 4e**
9. **MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
10. **MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
11. **MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
 - Staff participated in the US Coastal Research Program's Human & Ecosystem Health Workshop Series.
 - Staff participated in a Sontek IQ-flow monitoring equipment training on 1/14/21.
12. **Citizen Drainage, Maintenance, and Inspections Concerns Map – Attachment 7**

13. Citizen Request for Watershed Management Services & Activities – Attachment 8

Public Works

1. **MS4 MCM – #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)**

- Performed weekly street sweeping on Calhoun Street, Highway 46, Bruin Road, May River Road, Pin Oak Street, and curbs and medians on Simmonsville and Buck Island Roads.
- Performed ditch inspections
 - Arrow ditch (2,569 LF)
 - Red Cedar ditch (966 LF)
 - Buck Island roadside ditch (15,926 LF)
 - Simmonsville roadside ditch (13,792 LF)
- Ongoing roadside mowing, litter clean-up and maintenance of Masters' Way, McCracken Circle, Hampton Parkway, Buck Island and Simmonsville Roads, Goethe Road, Shults Road, Jason and Able Streets, Whispering Pine Road, May River Road and Eagles Field.
- Ongoing mowing of the New River side trail and field at New River barn.
- Beautification Program –Landscape Maintenance - ongoing routine.

2. **Facilities**

- Facilities and Parks Maintenance - ongoing routine.

3. **Public Works Activities Report - Attachment 10**

Attachments

1. SCDHEC Shellfish Harvesting Monitoring Data Year-to-Date
 - a. SCDHEC May River Shellfish Harvesting Status Exhibit
2. May River Watershed Action Plan Implementation Summary*
3. MS4 Minimum Control Measures #1 and #2 – May River Watershed Action Plan Advisory Committee Cancellation Notice
4. MS4 Minimum Control Measure #3 – Illicit Discharge Detection and Elimination
 - a. Stormwater Infrastructure Inventory Map
 - b. *E. coli* Concentrations Trend Map
 - c. Microbial Source Tracking Trend Map – Human Source
 - d. Microbial Source Tracking Map – All Sources
 - e. Illicit Discharge Investigations
5. MS4 Minimum Control Measure #4 – Construction Site Stormwater Runoff Control
6. MS4 Minimum Control Measure #5 – Stormwater Plan Review and Related Activity
7. Citizen Drainage, Maintenance and Inspections Concerns Map
8. Citizen Request for Watershed Management Services and Activities Map
9. Beautification Committee Agenda
10. Public Works Activities Report
11. CIP Project Schedules

* Attachment noted above includes the latest updates in bold and italic font.

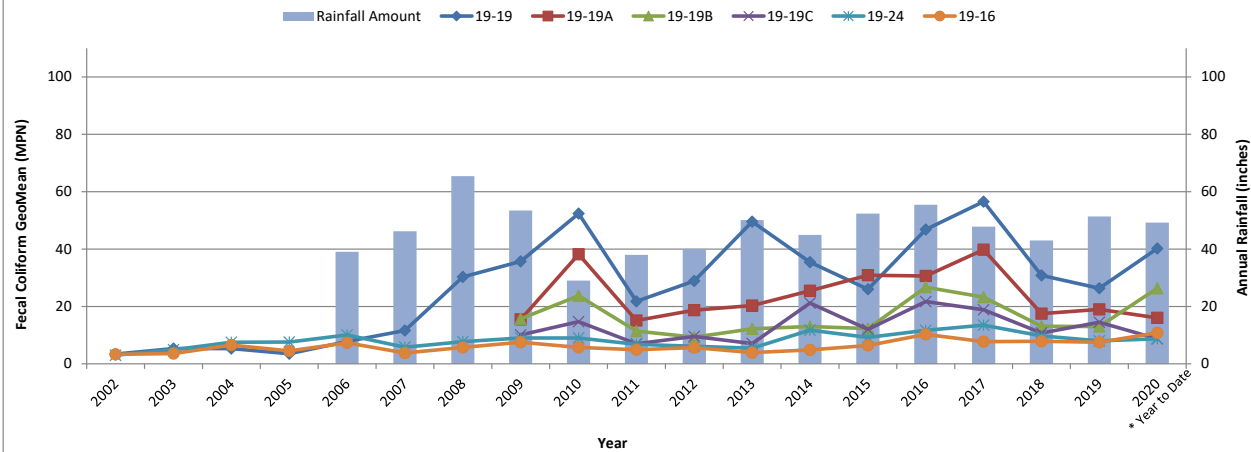
	19-19				19-19A				19-19B				19-19C				19-24				19-16			
	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020
	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)
December	1600.0	79.0	170.0	17.0	920.0	49.0	33.0	22.0	540.0	33.0	140.0	17.0	240.0	46.0	33.0	4.5	220.0	23.0	13.0	4.0	49.0	21.0	110.0	11.0
November	49.0	49.0	17.0	70.0	33.0	13.0	6.8	31.0	7.8	23.0	7.8	17.0	31.0	17.0	11.0	13.0	2.0	17.0	4.5	13.0	2.0	7.8	2.0	4.5
October	22.0	79.0	7.8	49.0	49.0	23.0	4.5	79.0	33.0	7.8	2.0	31.0	23.0	7.8	4.5	21.0	6.8	7.8	1.8	33.0	2.0	2.0	2.0	79.0
September	17.0	49.0	79.0	110.0	7.8	23.0	33.0	49.0	11.0	13.0	6.8	49.0	4.5	17.0	17.0	33.0	2.0	17.0	4.5	33.0	1.8	17.0	1.8	33.0
August	79.0	70.0	70.0	49.0	70.0	23.0	49.0	49.0	21.0	13.0	33.0	23.0	33.0	4.5	22.0	23.0	33.0	7.8	7.8	17.0	33.0	17.0	17.0	22.0
July	350.0	23.0	4.5	33.0	110.0	33.0	13.0	13.0	130.0	11.0	7.8	23.0	49.0	7.8	17.0	7.8	49.0	13.0	22.0	7.8	22.0	4.5	13.0	17.0
June	23.0	11.0	33.0	NS	49.0	23.0	49.0	NS	13.0	23.0	49.0	NS	17.0	7.8	46.0	NS	7.8	4.5	13.0	NS	4.5	1.8	4.5	NS
May	17.0	17.0	7.8	70.0	23.0	33.0	9.2	49.0	7.8	17.0	7.8	23.0	2.0	13.0	2.0	22.0	23.0	23.0	6.8	6.8	4.5	13.0	4.5	4.5
April	7.8	33.0	23.0	33.0	23.0	13.0	13.0	33.0	4.5	17.0	7.8	13.0	7.8	17.0	6.8	6.8	13.0	49.0	23.0	13.0	4.5	17.0	6.8	13.0
March	350.0	22.0	23.0	170.0	11.0	21.0	23.0	49.0	33.0	4.5	6.8	130.0	13.0	11.0	13.0	49.0	13.0	7.8	7.8	70.0	33.0	9.3	4.5	33.0
February	13.0	17.0	64.0	17.0	7.8	7.8	33.0	7.8	13.0	17.0	23.0	21.0	9.3	17.0	31.0	4.5	4.5	2.0	6.8	4.5	1.8	7.8	13.0	6.8
January	95.0	13.0	23.0	95.0	79.0	2.0	23.0	33.0	31.0	4.5	13.0	33.0	49.0	2.0	33.0	17.0	27.0	1.8	7.8	17.0	33.0	4.5	23.0	17.0
Additional Samples																								
Additional Samples																								
Average Annual GeoMean	56.5	30.8	26.4	51.4	39.8	17.5	19.0	31.9	23.3	13.1	13.0	27.3	18.8	10.7	14.5	14.0	13.5	9.8	8.0	13.8	7.7	7.9	7.5	15.3
** Truncated GeoMetric Mean	44.0	42.0	35.0	34.0	36.0	29.0	23.0	21.0	20.0	20.0	16.0	16.0	16.0	15.0	14.0	12.0	10.0	10.0	10.0	10.0	7.0	8.0	7.0	9.0
** Truncated 90th Percentile	203.0	176.0	168.0	106.0	133.0	115.0	89.0	59.0	83.0	71.0	63.0	50.0	57.0	56.0	52.0	37.0	37.0	44.0	38.0	31.0	29.0	30.0	32.0	35.0

NS = No Sample

AS = Additional Samples

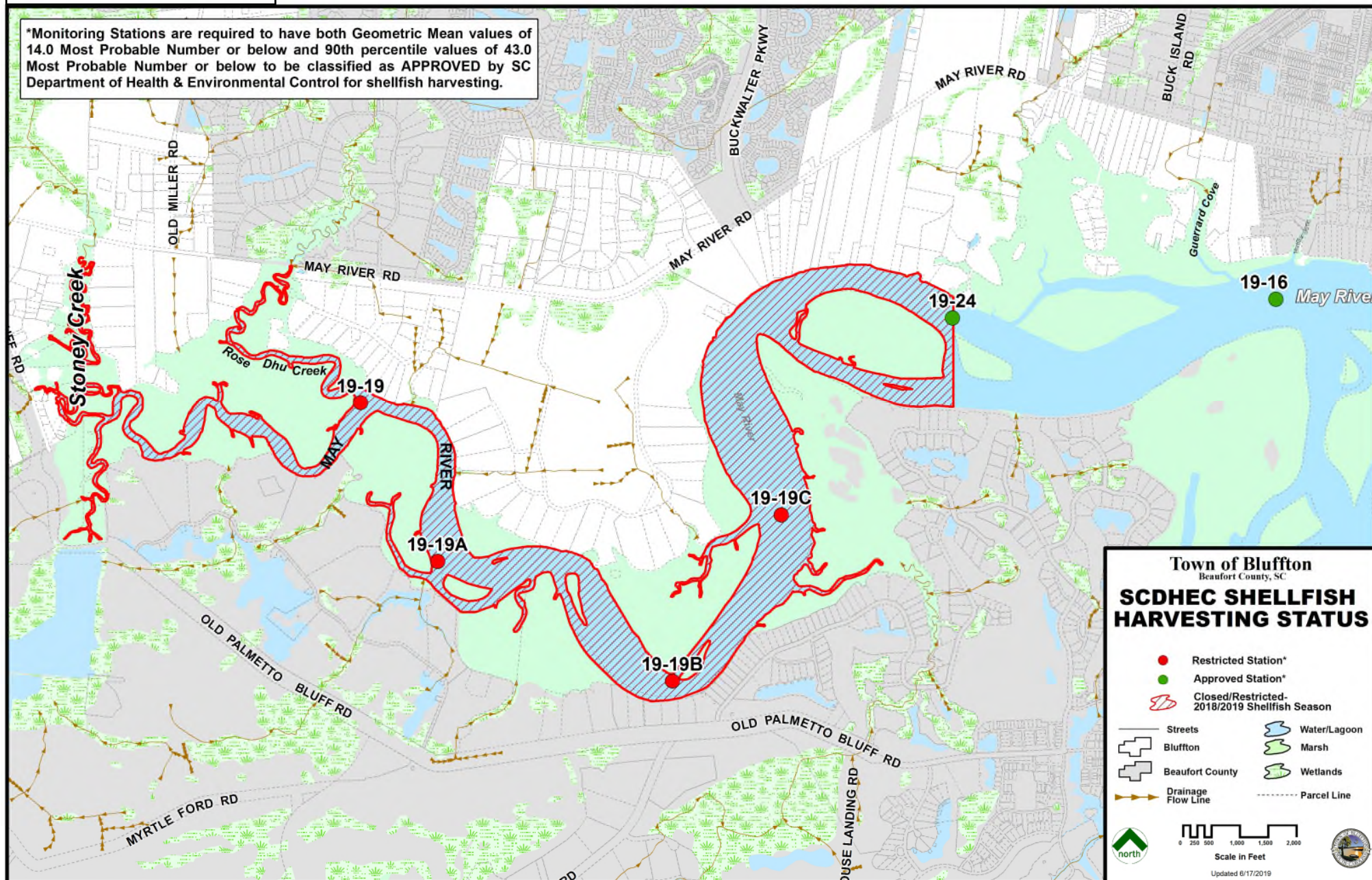
** Town staff calculations utilizing DHEC statistics

SC DHEC May River Headwaters Shellfish Stations Average Annual Fecal Coliform



May River Headwaters

*Monitoring Stations are required to have both Geometric Mean values of 14.0 Most Probable Number or below and 90th percentile values of 43.0 Most Probable Number or below to be classified as APPROVED by SC Department of Health & Environmental Control for shellfish harvesting.



ACTIVITY - FINANCIAL	STATUS
Funding Opportunities	Council unanimously adopted \$115 SWU Fee and NPDES-related Fees on 6/9/20.
ACTIVITY - POLICIES	STATUS
Sewer Connection & Extension Policy	<i>Completed 2017.</i>
Septic to Sewer Conversion Program	<i>Completed 2018.</i>
Sewer Connection Ordinance and Ordinance Amendment	<i>Completed 2015 and 2018, respectively.</i>
Southern Lowcountry Regional Stormwater Ordinance and Design Manual	<i>Current project updates are included in Engineering Consent Agenda under "Southern Lowcountry Regional Board (SoLoCo)."</i>
ACTIVITY - PROJECTS	STATUS
Sanitary Sewer Extension	Completed Buck Island/Simmons Road (BIS) Phases I, II, III, IV; Toy Fields; and Jason/Able. Six project phases of Historic District sewer extension are proposed in the 5-year Capital Improvement Program. <i>Current project updates are included in Engineering Consent Agenda under "Sewer & Water."</i>
May River 319 Grant Phase 1 - New Riverside Pond (Grant award of \$483,500 in 2009)	<i>Completed 2013.</i>
May River 319 Grant Phase 2 - Pine Ridge (Grant award of \$290,000 in 2011)	<i>Completed 2016.</i>
May River 319 Grant Phase 3 - Town Hall Parking Retrofit (Grant award of \$231,350 in 2016)	<i>Completed 2019.</i>
May River 319 Grant Phase 4 - Sanitary Sewer Connections (Grant award of \$365,558.36 in 2019)	Grant to construct 49 sewer lateral connections in Poseys Court, Little Aaron and Historic District Phases 1 and 2. <i>Current project updates are included in Engineering Consent Agenda under "Sewer & Water."</i>
May River 319 Grant Phase 5 - Bridge Street Streetscape (Grant award of \$179,900 in 2020)	Supports enhanced drainage and water quality improvements as part of the Bridge Street Streetscape project. Contract signed on 12/4/20 and kick-off meeting held on 12/16/20.
Stoney Creek Wetlands Restoration: Preliminary Design Phase	Project on hold following Council direction on 5/31/17.
May River Watershed Water Quality Model	Contract awarded to McCormick Taylor with final deliverables received 11/20. <i>Final Report as the May River Watershed Action Plan Update reviewed during Town Council Workshop on 1/19/21, WAPAC recommendation to adopt on 1/21/21, and Town Council adoption anticipated on 2/9/21.</i>
ACTIVITY - PROGRAMS	STATUS
Public Outreach/Participation/Involvement (MS4 Minimum Control Measures #1 & 2)	Outreach and involvement efforts continue through county-wide partnership with Carolina Clear as Lowcountry Stormwater Partners - Neighbors for Clean Water, through local cleanups, civic group presentations, and the May River Watershed Action Plan Advisory Committee. <i>Current updates are included in Engineering Consent</i>
Infrastructure Mapping/GIS (MS4 Minimum Control Measure #3)	Data points continue to be collected with new development to meet MS4 requirements & populate water quality model. <i>Current updates are included in Engineering Consent Agenda Attachment 4a.</i>
Water Quality Monitoring Program (MS4 Minimum Control Measure #3)	<ol style="list-style-type: none"> 1. SCDHEC Shellfish monitoring results and map 2. <i>E. coli</i> bacteria "hot spot" concentrations 3. Microbial Source Tracking of bacteria 4. Illicit Discharge investigation and monitoring 5. BMP efficacy monitoring 6. MS4 monitoring <i>Current updates are included in Engineering Consent Agenda Attachments 1, 1a, 4b - 4d.</i>

ACTIVITY - PROGRAMS continued	STATUS continued
Illicit Discharge Detection & Elimination (IDDE) Program (MS4 Minimum Control Measure #3)	Response to reported and observed non-stormwater discharges to the stormwater drainage system. <i>Current updates are included in Engineering Consent Agenda Attachment 4e.</i>
Construction Site Stormwater Runoff Control Program (MS4 Minimum Control Measure #4)	Sediment and erosion control inspections with escalating enforcement response. <i>Current updates are included in Engineering Consent Agenda Attachment 5.</i>
Stormwater Plan Review & Related Activity Program (MS4 Minimum Control Measure #5)	SCDHEC delegated plan review-related activities. <i>Current updates are included in Engineering Consent Agenda Attachment 6.</i>
Ditch Inspection/Maintenance Program (MS4 Minimum Control Measure #6)	Continued coordination with SCDOT, Beaufort County and Town Public Works to inspect and maintain ditches within the Town's jurisdiction. <i>Current updates are included in Engineering Consent Agenda Attachment 7.</i>
Neighborhood Assistance Program - Septic System Maintenance Program	On-going assistance offered to Town residents regardless of financial status through Neighborhood Assistance Program (NAP). <i>Current updates are provided in Growth Management Consent Agenda.</i>



**TOWN OF BLUFFTON
MAY RIVER WATERSHED ACTION PLAN ADVISORY COMMITTEE MEETING
ELECTRONIC MEETING**

Thursday, January 21, 2021 | 9 AM

AGENDA

This meeting can be viewed on the Town of Bluffton's Facebook page
(<https://www.facebook.com/TownBlufftonSC/>)

- I. CALL TO ORDER**
- II. NOTICE REGARDING POSTING OF MEETING PER SOUTH CAROLINA FREEDOM OF INFORMATION (FOIA) REQUIREMENTS**
- III. ROLL CALL AND CONFIRMATION OF QUORUM**
- IV. ADOPTION OF AGENDA**
- V. ADOPTION OF MINUTES – December 3, 2020**
- VI. PUBLIC COMMENTS**

Public Comments may be submitted electronically via the Town's website at (<https://www.townofbluffton.sc.gov/FormCenter/Town-15/Public-Comment-60>) or by emailing your comments to the Stormwater Coordinator at ldelhomme@townofbluffton.com. Comments will be accepted up to close of business (5:30 PM) the day prior to the scheduled meeting start time. All comments will be read aloud for the record.

- VII. NEW BUSINESS**
 - 1. Welcome New Town of Bluffton Stormwater Coordinator/Field Assistant**
 - 2. May River Watershed Action Plan Update**

VIII. OLD BUSINESS

"FOIA Compliance – Public notification of this meeting has been published and posted in compliance with the Freedom of Information Act and the Town of Bluffton policies."

In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 ("ADA"), the Town of Bluffton will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities. The Town of Bluffton Council Chambers are ADA compatible. Any person requiring further accommodation should contact the Town of Bluffton ADA Coordinator at 843.706.4500 or adacoordinator@townofbluffton.com as soon as possible but no later than 48 hours before the scheduled event.

*Please note that each member of the public may speak at public comment session and a form must be filled out and given to Town Staff. Public comment must not exceed three (3) minutes.

1. Water Quality Monitoring Program (standing item)
 - A. Monthly Sampling Update
 - B. Microbial Source Tracking (MST) Update
 - C. SCDHEC Shellfish Data Update

IX. DISCUSSION

X. ADJOURNMENT

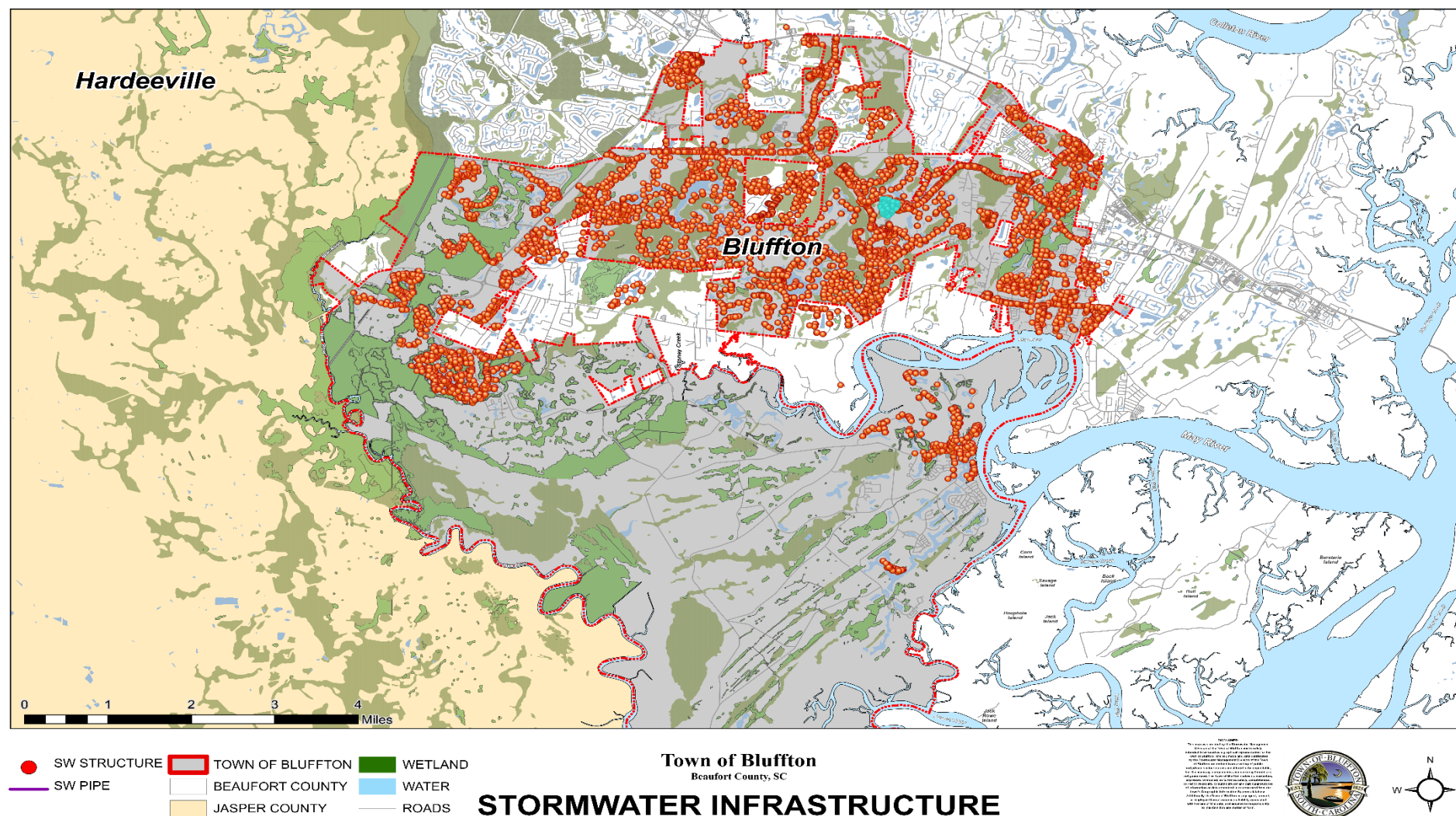
NEXT MEETING DATE: Proposed 9:00 AM, Thursday, February 25, 2021

“FOIA Compliance – Public notification of this meeting has been published and posted in compliance with the Freedom of Information Act and the Town of Bluffton policies.”

In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 ("ADA"), the Town of Bluffton will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities. The Town of Bluffton Council Chambers are ADA compatible. Any person requiring further accommodation should contact the Town of Bluffton ADA Coordinator at 843.706.4500 or adacoordinator@townofbluffton.com as soon as possible but no later than 48 hours before the scheduled event.

*Please note that each member of the public may speak at public comment session and a form must be filled out and given to Town Staff. Public comment must not exceed three (3) minutes.

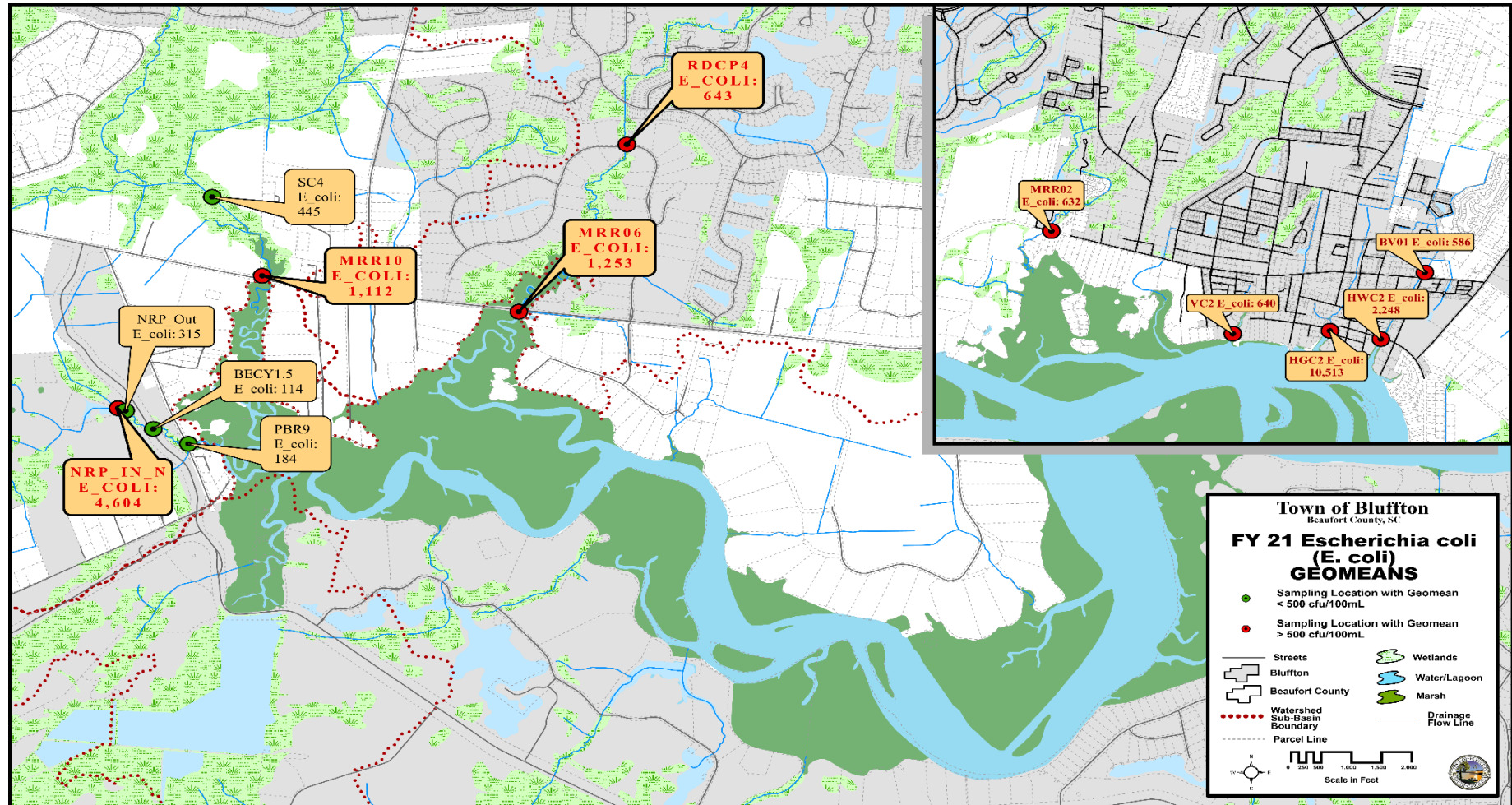
MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge Detection & Elimination): Stormwater Infrastructure Inventory



Stormwater Infrastructure Inventory Collection Status

FY 2021 YTD Collection Totals	869
FY 2020 Collection Totals	4,878
FY 2019 Collection Totals	2,925
FY 2018 Collection Totals	3,777

MS4 Minimum Control Measure #3 – IDDE: *E. coli* Concentrations Trend Map



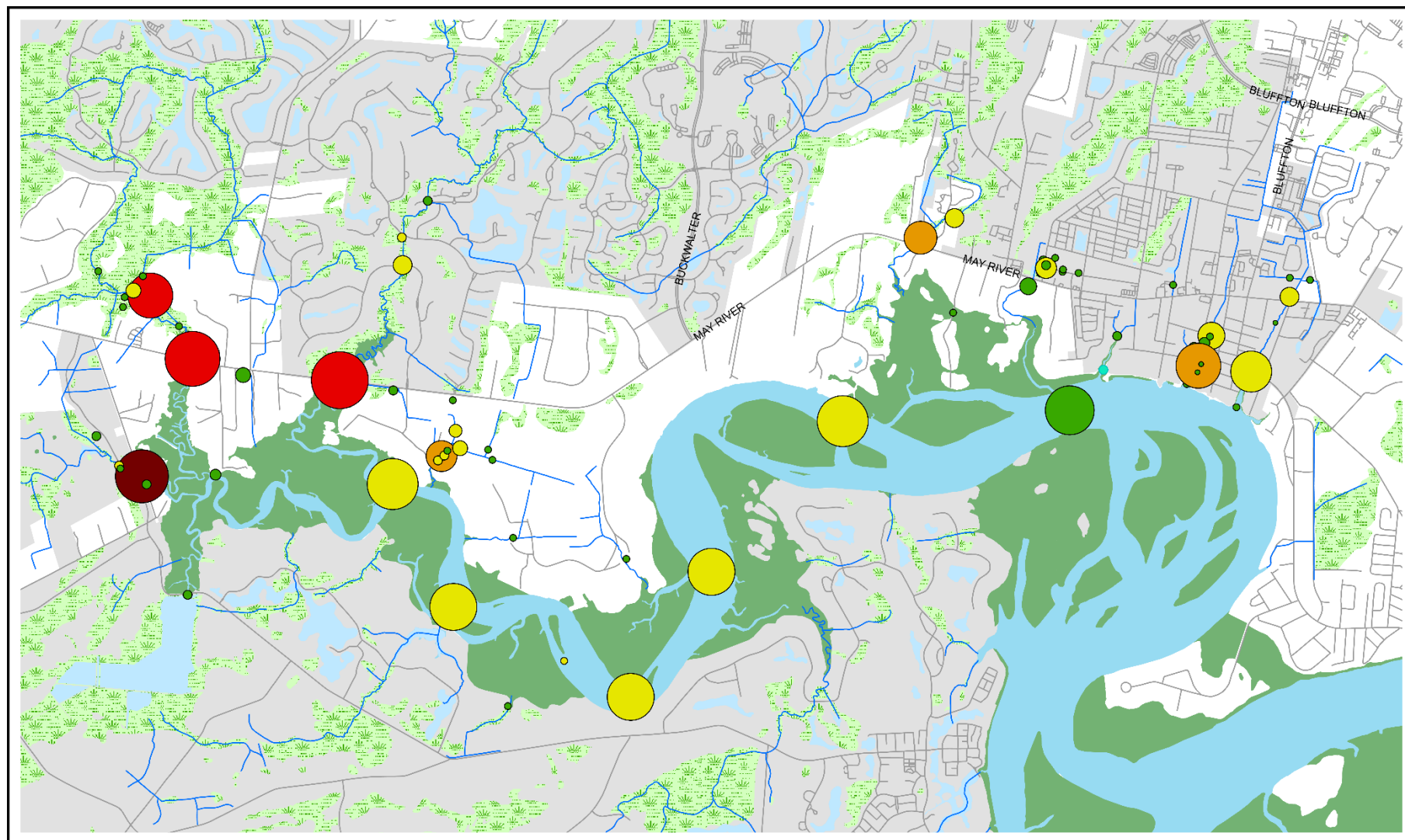
E coliform geomeans updated as of: 1/19/2021

	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2021 YTD Totals	211	53	54
FY 2020 Totals	223	115	123
FY 2019 Totals	280	193	264
FY 2018 Totals	216	217	224

1/20/2021

- MST program began November 2016; MS4 Quarterly Sampling initiated 2/2017
- Totals include only samples submitted for laboratory analysis, and not *in situ* parameters.

MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Trend Map – Human Source



 Town Jurisdiction
 Beaufort County
 Drainage Flow Lines

Positive Hits

● 0 ● 1-3 ● 3-6 ● 6-9 ● >10

Times Sampled

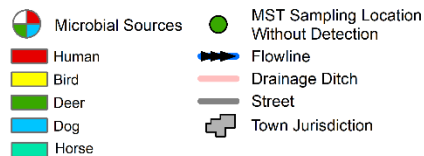
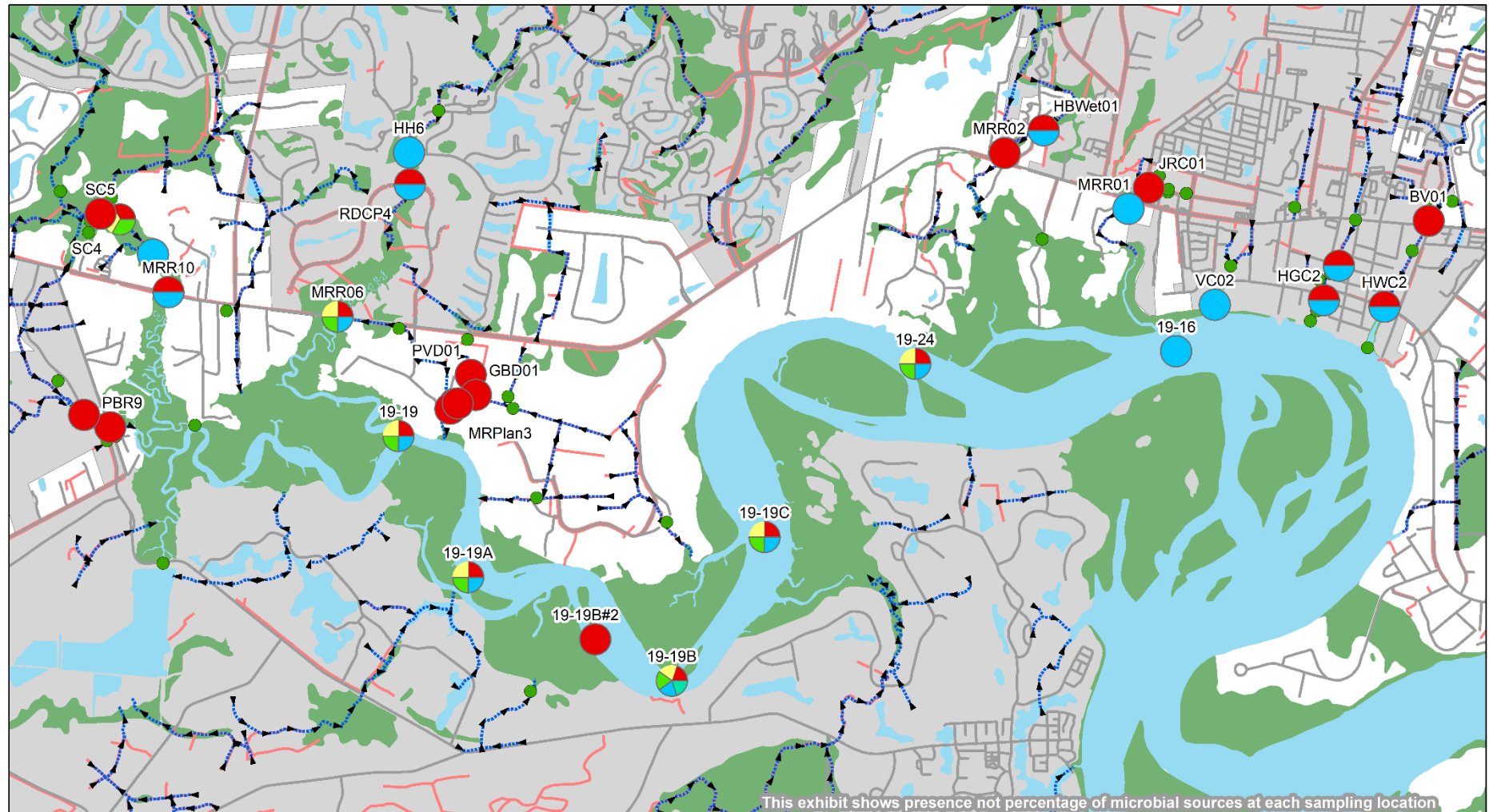
● 1 - 3 ● 4 - 6 ● 7 - 10 ● >10

Size of dot correlates to # of times the site has been sampled.

Updated Date: 1/19/2021



MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Map – All Sources

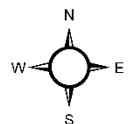


Microbial Sources Detected Within the May River 2017 - 2021

Town of Bluffton
Beaufort County, SC

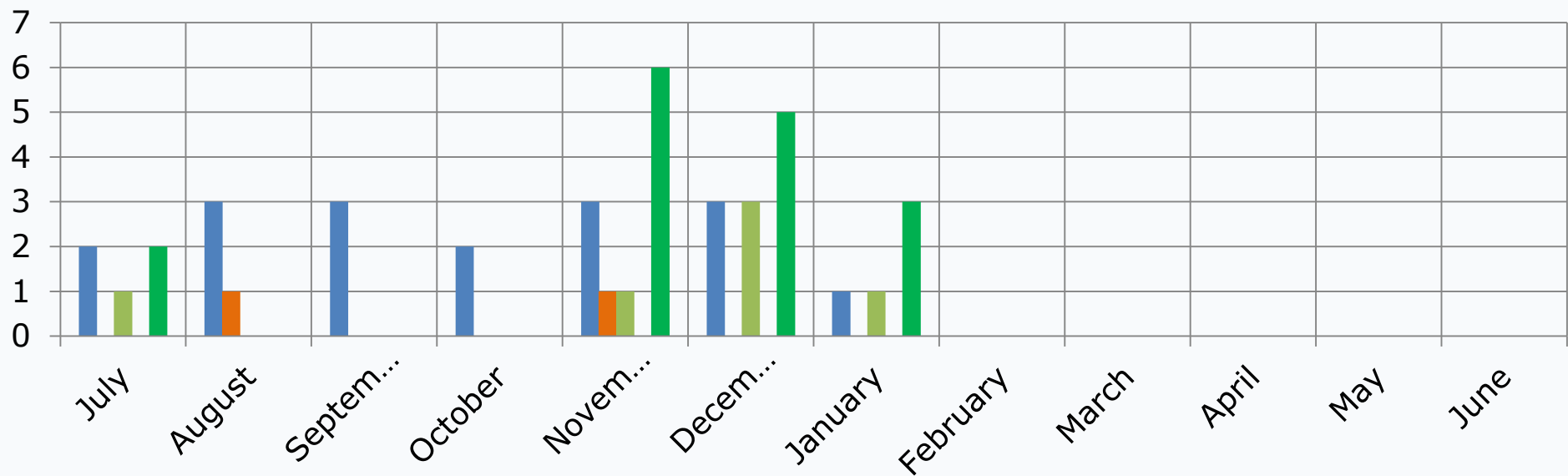
Date: 11/17/2020

DISCLAIMER:
This map was created by the Bluffton Water Management
Department for the Town of Bluffton and is only
intended to be used as a general representation for the
Town of Bluffton. The data was collected from the
Bluffton Water Management Department's database
and is not intended to be used for legal purposes.
The Town of Bluffton makes no warranty,
express or implied, for the accuracy, completeness,
or timeliness of the information contained herein.
The Town of Bluffton is not responsible for any
errors or omissions in the data. The Town of Bluffton
is not responsible for any damages or losses resulting
from the use of this data and assumes no responsibility
for the accuracy or completeness of the data.



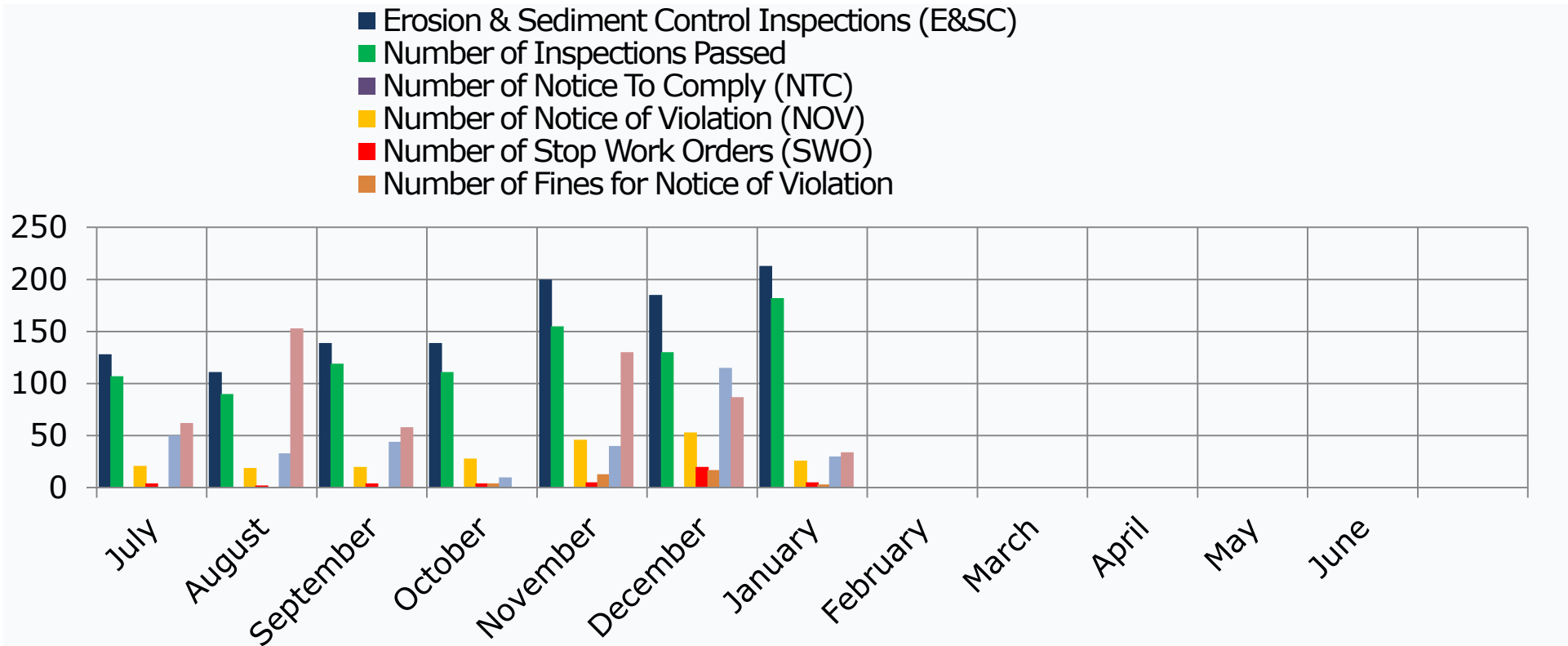
MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations

■ Number of Illicit Discharge Investigations ■ Number of Notice To Comply
■ Number of Notice of Violation ■ Number of NOV Enforcement Actions
■ Number of Meetings



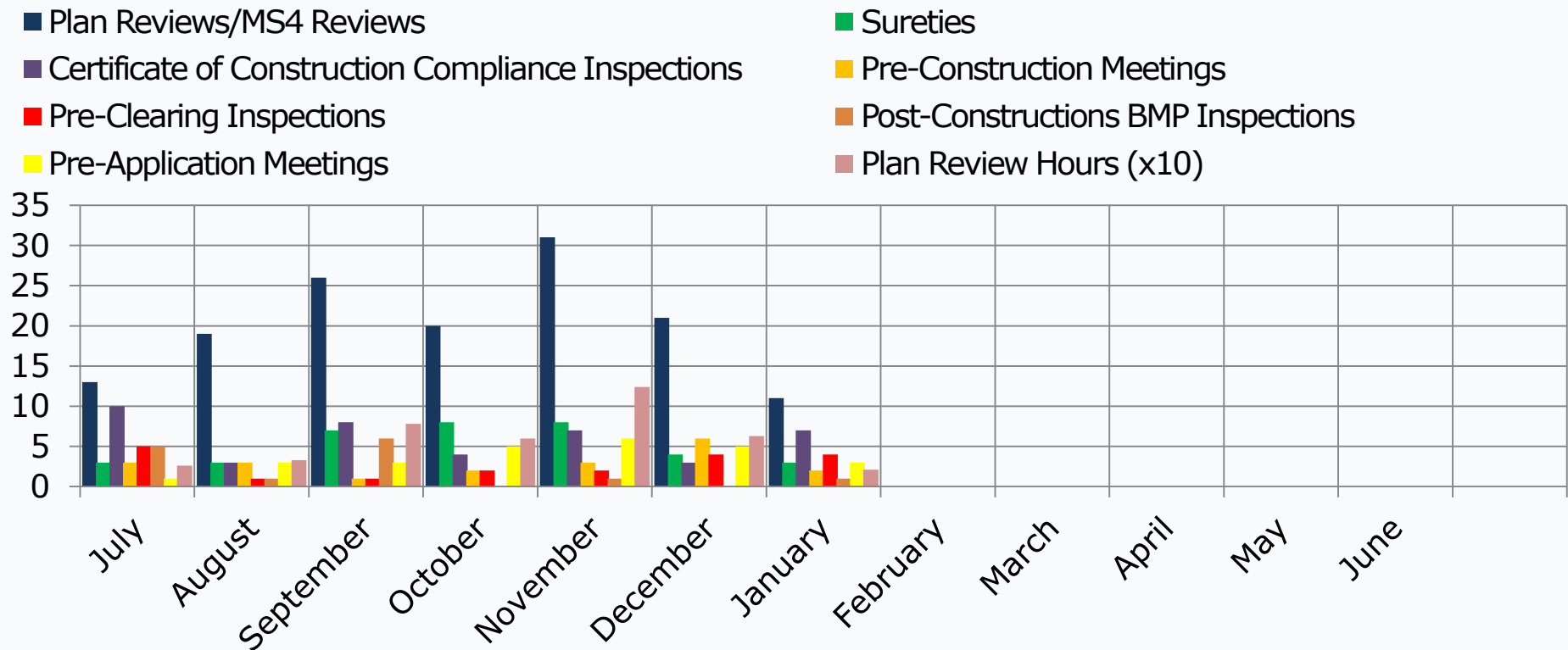
	Number of Illicit Discharge Investigations	Number of Notices To Comply Issued	Number of Notices of Violation Issued	Number of NOV Enforcement Actions	Number of Meetings
FY 2021 YTD Totals	17	8	2	0	16
FY 2020 Totals	45	10	8	6	49
FY 2019 Totals	38	20	3	1	61
FY 2018 Totals	48	20	4	2	60

MS4 Minimum Control Measure #4 - Construction Site Stormwater Runoff Control



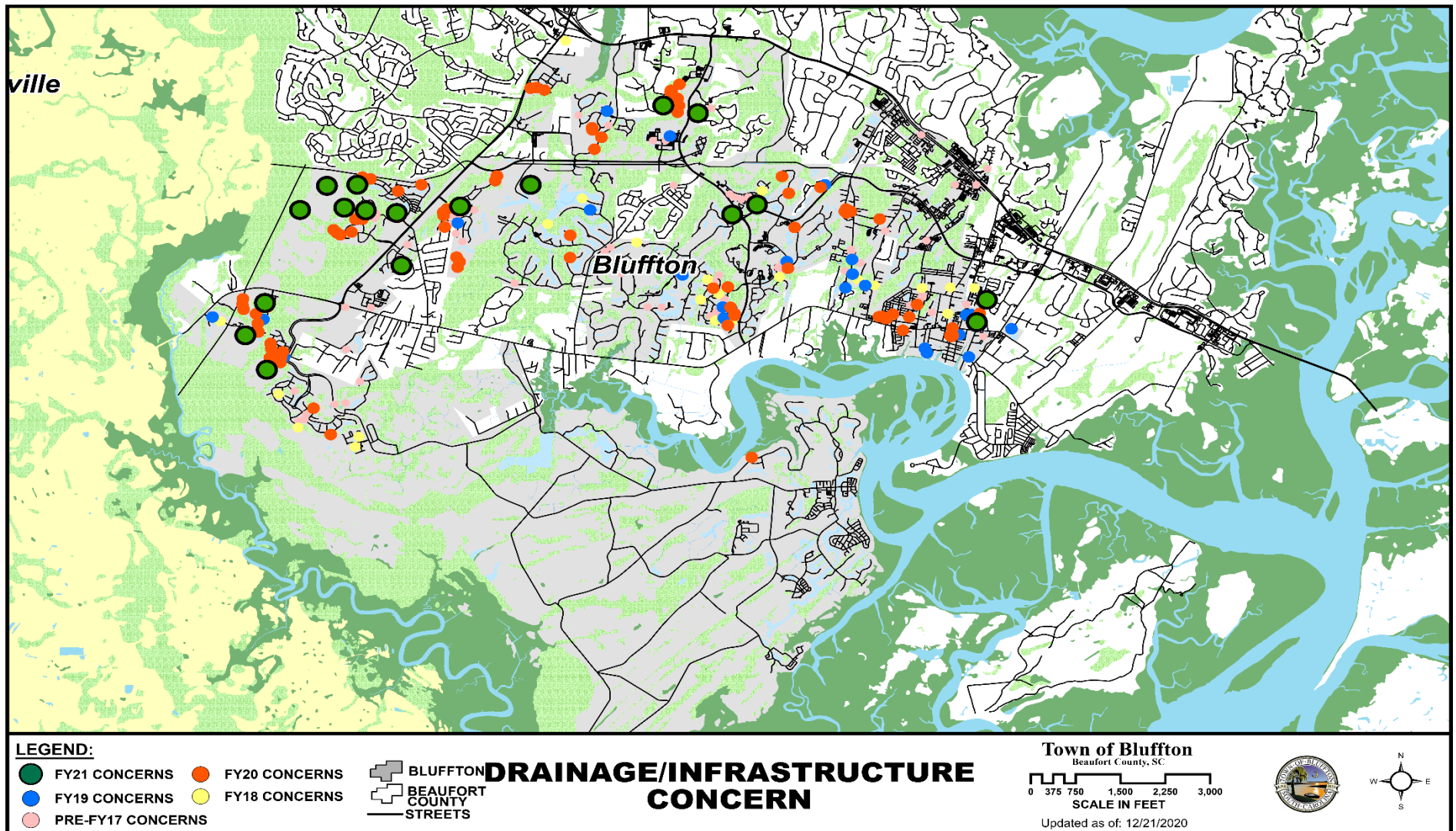
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NTC Issued	Number of NOVs Issued	Number of SWO Issued	Number of NOV Enforcement Actions	Number of E&SC Meetings
FY 2021 YTD Totals	1098	912	N/A	179	25	20	248
FY 2020 Totals	1,517	1187	128	185	16	9	496
FY 2019 Totals	1,688	1,384	254	72	N/A	7	403

MS4 Minimum Control Measure #5 Stormwater Plan Review & Related Activity



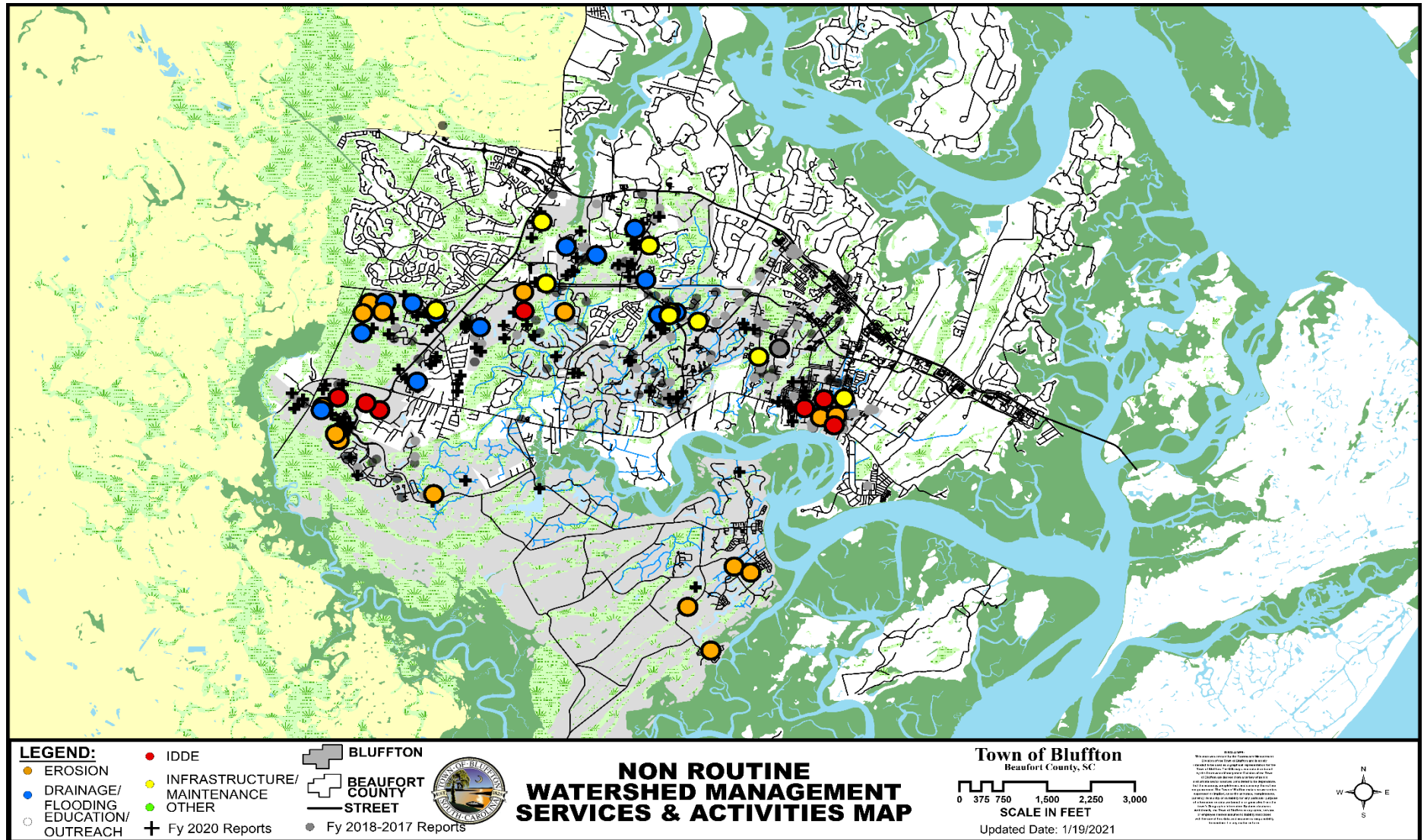
	Plan Reviews MS4 Reviews	Sureties	Certificate of Construction Compliance Inspections	Pre- Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2021 YTD Totals	120	32	39	13	15	14	21	342 Hrs.
FY 2020 Totals	176	53	46	36	17	8	36	789 Hrs.
FY 2019 Totals	208	52	53	47	37	27	63	1,040 Hrs.

Citizen Drainage, Maintenance and Inspections Concerns Map



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2021 YTD Totals	18	25
FY 2020 Totals	68	76
FY 2019 Totals	54	59

Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2021 YTD Totals	27	29
FY 2020 Totals	99	102
FY 2019 Totals	75	79



PUBLIC NOTICE

The Beautification Committee (BC)
Meeting scheduled for

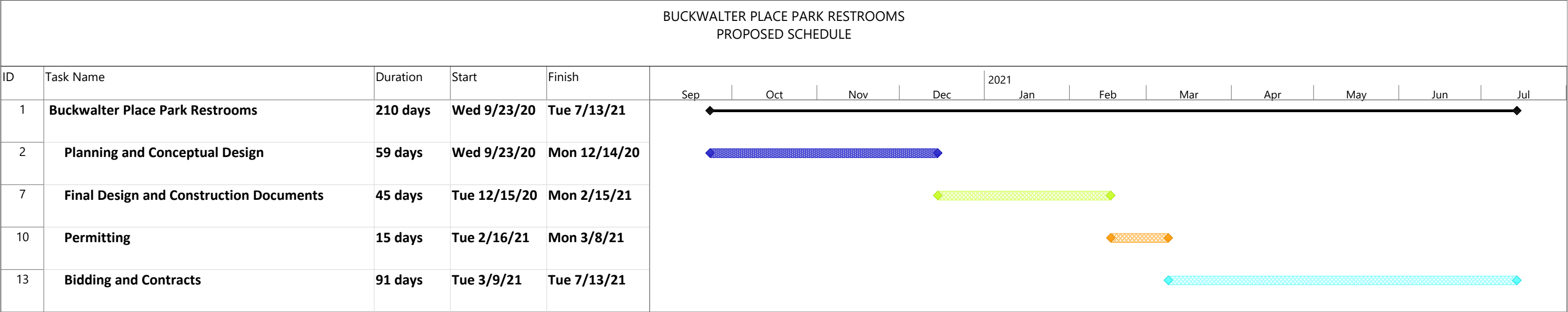
Thursday, January 21, 2021,
at 10:00 a.m.

Has been CANCELED
due to lack of agenda items

The next meeting is scheduled for
Thursday, February 18, 2021

If you have questions, please contact
Engineering at: 843-706-4599

Week	# of Activities	Labor Cost	Equipment Cost	Other Cost	Total
FY21WK1	61	\$4,397.00	\$3,188.00		\$7,584.00
FY21WK2	56	\$5,474.00	\$3,574.00	\$121.00	\$9,168.00
FY21WK3	48	\$4,880.00	\$3,502.00		\$8,382.00
FY21WK4	62	\$5,828.00	\$3,970.00		\$9,799.00
FY21WK5	45	\$4,706.00	\$3,575.00		\$8,281.00
FY21WK6	54	\$5,645.00	\$3,114.00		\$9,126.00
FY21WK7	60	\$4,855.00	\$4,232.00		\$9,087.00
FY21WK8	67	\$5,118.00	\$4,221.00		\$9,339.00
FY21WK9	50	\$5,784.00	\$3,923.00		\$9,707.00
FY21WK10	54	\$6,131.00	\$4,248.00	\$21.00	\$10,400.00
FY21WK11	41	\$4,677.00	\$2,740.00		\$7,417.00
FY21WK12	70	\$5,580.00	\$2,587.00	\$326.00	\$8,494.00
FY21WK13	94	\$5,864.00	\$5,084.00		\$10,949.00
FY21WK14	49	\$6,171.00	\$4,261.00		\$10,431.00
FY21WK15	53	\$5,870.00	\$4,059.00		\$9,929.00
FY21WK16	62	\$5,239.00	\$3,531.00		\$8,771.00
FY21WK17	77	\$4,660.00	\$3,769.00	\$364.00	\$8,792.00
FY21WK18	45	\$4,679.00	\$3,417.00		\$8,096.00
FY21WK19	62	\$6,186.00	\$7,048.00		\$13,234.00
FY21WK20	41	\$4,135.00	\$2,633.00		\$6,768.00
FY21WK21	51	\$5,446.00	\$3,073.00		\$8,519.00
FY21WK22	39	\$3,229.00	\$3,599.00		\$6,828.00
FY21WK23	51	\$5,072.00	\$3,014.00		\$8,085.00
FY21WK24	76	\$6,073.00	\$5,257.00		\$11,329.00
FY21WK25	56	\$4,245.00	\$2,976.00		\$7,221.00
FY21WK26	38	\$1,890.00	\$1,936.00		\$3,826.00
FY21WK27	50	\$4,417.00	\$4,060.00		\$8,477.00
FY21WK28	69	\$5,753.00	\$4,185.00		\$9,938.00
FY21WK29	36	\$4,703.00	\$6,365.00		\$11,069.00
FY21WK30					
FY21WK31					
FY21WK32					
FY21WK33					
FY21WK34					
FY21WK35					
FY21WK36					
FY21WK37					
FY21WK38					
FY21WK39					
FY21WK40					
FY21WK41					
FY21WK42					
FY21WK43					
FY21WK44					
FY21WK45					
FY21WK46					
FY21WK47					
FY21WK48					
FY21WK49					
FY21WK50					
FY21WK51					
FY21WK52					
Total	1617	\$146,707.00	\$111,141.00	\$832.00	\$259,046.00



Project: 00040
Date: Wed 1/27/21

Milestone

Critical Task

Task

◆

★

Project Duration

Planing and Conceptual Design

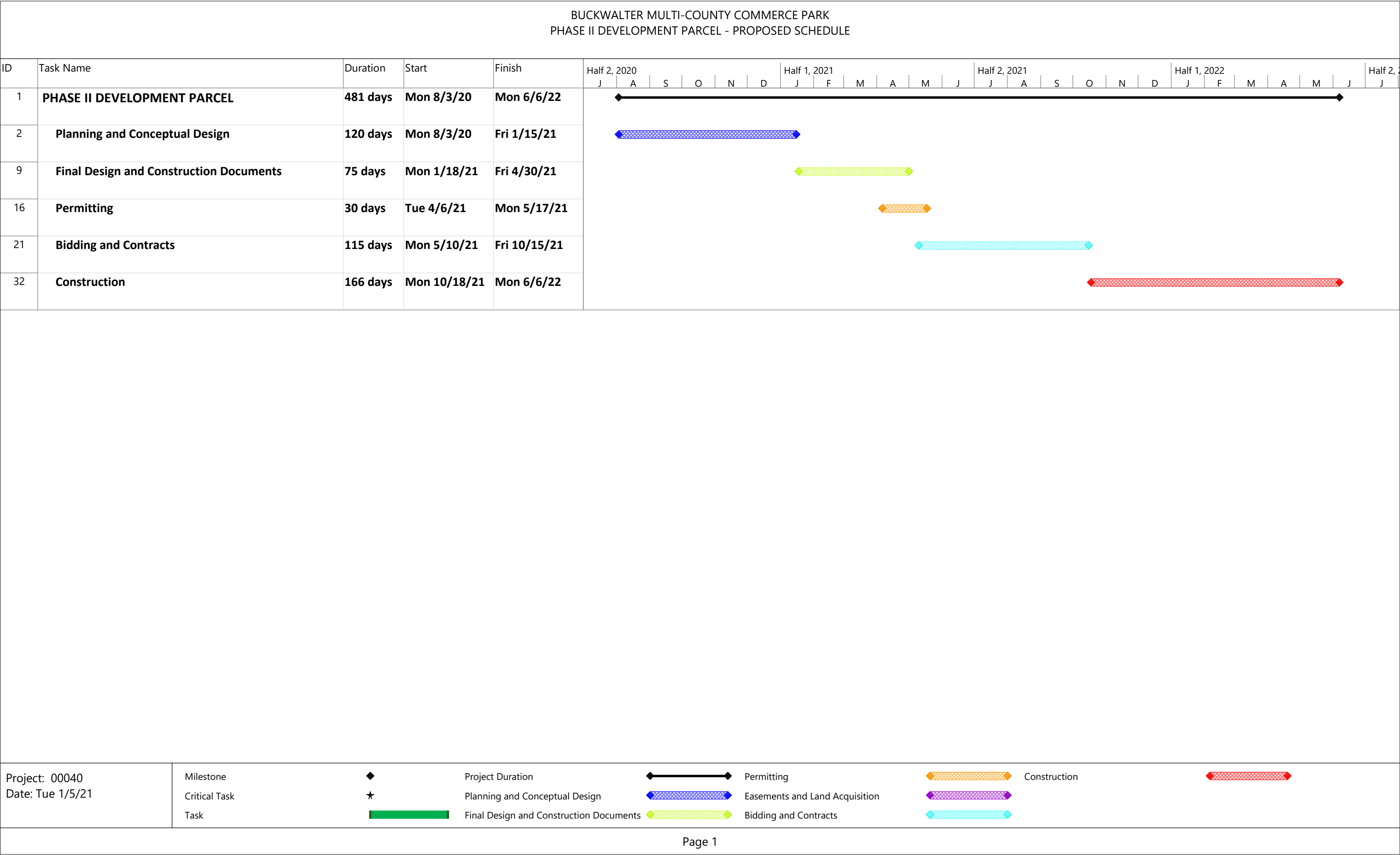
Final Design and Construction Documents

Permitting

Easements and Land Acquisitions









Bidding and Contracts

Construction



CALHOUN STREET STREETScape PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	May E	May B	May M	May E	June B	June M	June E	July B	July M	July E	August B	August M	August E	Septem B	Septem M	Septem E	October B	October M	October E	Noveml B	Noveml M	Noveml E	Deceml B	Deceml M	Deceml E	January B	January M	January E	Februa B	Februa M	Februa E	March B	March M	March E	April B	April M	April E	May B	May M	May E	June B	June M	June E	July B	July M	July E	August B	August M	August E	Septem B	Septem M	Septem E	October B	October M	October E	Noveml B	Noveml M	Noveml E	Deceml B	Deceml M	Deceml E	January B	January M	January E	Februa B	Februa M	Februa E	March B	March M	March E	April B	April M	April E	May B	May M	May E	June B	June M	June E	July B	July M	July E	August B	August M	August E
1	CALHOUN STREET STREETScape	561 days	Mon 5/18/20	Mon 7/11/22																																																																																					
2	Planning and Conceptual Design	80 days	Mon 5/18/20	Fri 9/4/20																																																																																					
7	Final Planning and Construction Documents	270 days	Mon 9/7/20	Fri 9/17/21																																																																																					
27	Permitting Phase	65 days	Mon 6/7/21	Fri 9/3/21																																																																																					
32	Easements and Land Acquisition	276 days	Mon 6/21/21	Mon 7/11/22																																																																																					

Project: 00042 Date: Wed 1/27/21	Milestone	◆	Task		Planning and Conceptual Design		Permitting		Easements and Land Acquisitions	
	Critical Task	★	Project Duration		Final Design and Construction Documents		Bidding and Contract		Construction	

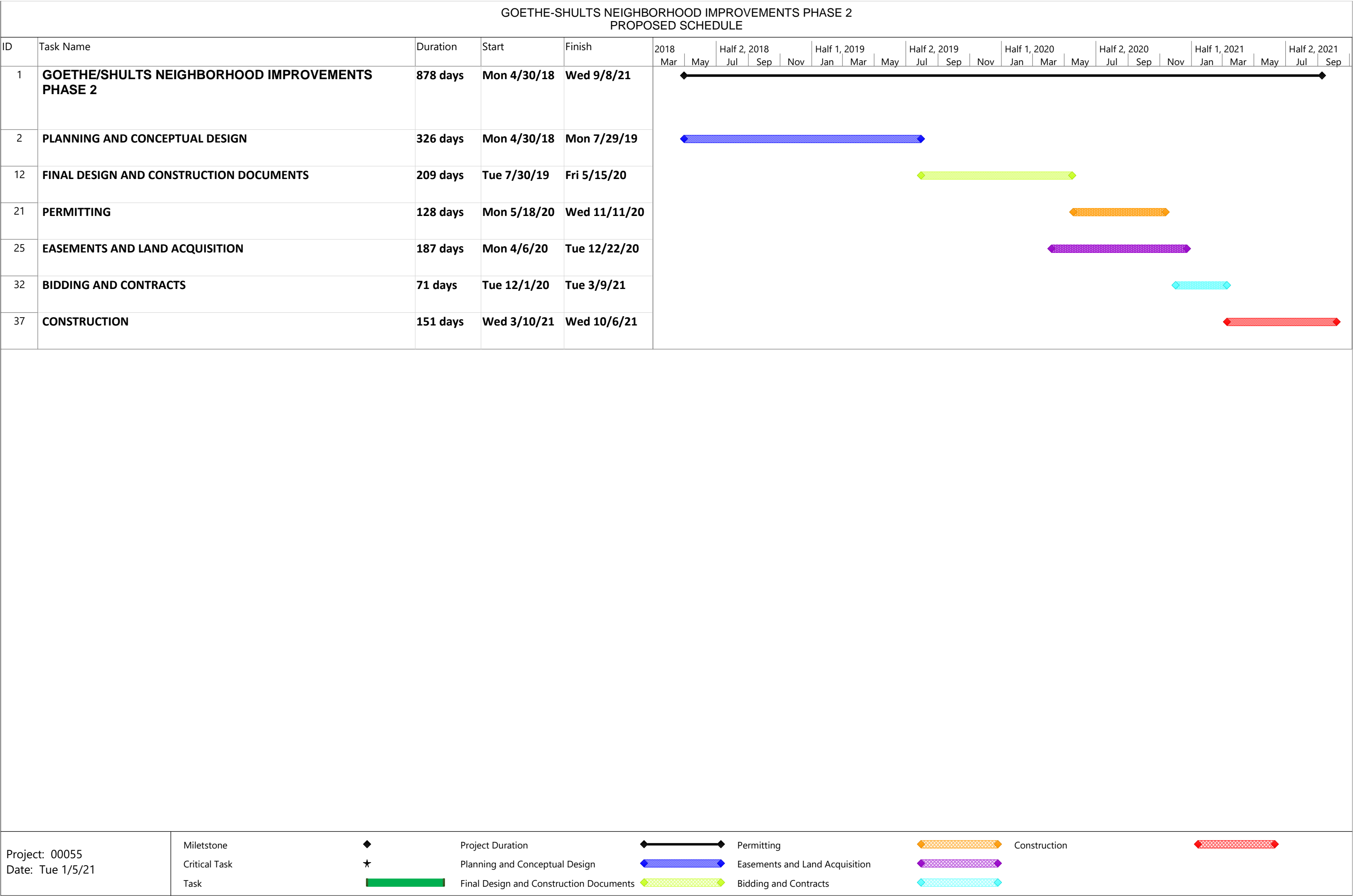
BUCK ISLAND-SIMMONSVILLE SANITARY SEWER PHASE 5 A-D PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish																																																				
					N	D	Half 1, 2017					Half 2, 2017					Half 1, 2018					Half 2, 2018					Half 1, 2019					Half 2, 2019					Half 1, 2020					Half 2, 2020					Half 1, 2021					Half 2, 2021				
1	PHASE 5 A-D	1193 days?	Thu 12/1/16	Mon 6/28/21																																																				
2	Planning and Conceptual Design	6 days	Thu 12/1/16	Thu 12/8/16																																																				
4	Permitting	474 days	Fri 12/9/16	Wed 10/3/18																																																				
11	Easements and Land Acquisition	642 days	Mon 4/3/17	Tue 9/17/19																																																				
16	Bidding and Contracts	50 days	Wed 1/1/20	Tue 3/10/20																																																				
21	Construction	201 days	Mon 9/21/20	Mon 6/28/21																																																				
29																																																								
30																																																								

Project: 00044 Date: Wed 1/27/21	Milestone	◆	Project Duration	◆————◆	Permitting	◆————◆	Construction	◆————◆
	Critical Task	★	Planning and Conceptual Design	◆————◆	Bidding and Contract	◆————◆		
	Task	■	Final Design and Construction Documents	◆————◆	Easements and Land Acquisitions	◆————◆		

BUCK ISLAND-SIMMONSVILLE NEIGHBORHOOD SIDEWALKS PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2018												2019												2020												2021												2022			
					J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A												
1	SIDEWALKS AND LIGHTING	1004 days	Thu 2/1/18	Tue 12/7/21																																																				
2	Sidewalk from Jennifer Ct to Simmonsville Rd	405 days	Thu 2/1/18	Wed 8/21/19																																																				
26																																																								
27	Sidewalk from Kitty Road to 301 Buck Island Rd	709 days	Thu 2/1/18	Tue 10/20/20																																																				
53																																																								
54	Sidewalk from Grayco to Sugaree (Simmonsville Rd)	775 days	Mon 10/1/18	Fri 9/17/21																																																				
55	Final Design and Construction Documents	490 days	Mon 10/1/18	Fri 8/14/20																																																				
61	Permitting	125 days	Mon 8/17/20	Fri 2/5/21																																																				
63	Easements	86 days	Mon 2/8/21	Mon 6/7/21																																																				
68	Bidding/Contract	47 days	Mon 2/8/21	Tue 4/13/21																																																				
73	Construction	113 days	Wed 4/14/21	Fri 9/17/21																																																				
80																																																								
81	Sidewalk from Sugaree to Windy Lake (Simmonsville Rd)	895 days	Mon 10/1/18	Fri 3/4/22																																																				
82	Final Design and Construction Documents	620 days	Mon 10/1/18	Fri 2/12/21																																																				
88	Permitting	60 days	Mon 2/15/21	Fri 5/7/21																																																				
90	Easements	86 days	Mon 5/10/21	Mon 9/6/21																																																				
95	Bidding/Contract	61 days	Mon 5/10/21	Mon 8/2/21																																																				
100	Construction	154 days	Tue 8/3/21	Fri 3/4/22																																																				
Project: 00054 Date: Wed 1/27/21			Milestone	◆	Project Duration		◆————◆	Permitting	◆————◆		Construction	◆————◆																																												
			Critical Task	★	Planning and Conceptual Design		◆————◆	Bidding and Contract	◆————◆																																															
			Task	■	Final Design and Construction Documents		◆————◆	Easements and Land Acquisitions	◆————◆																																															

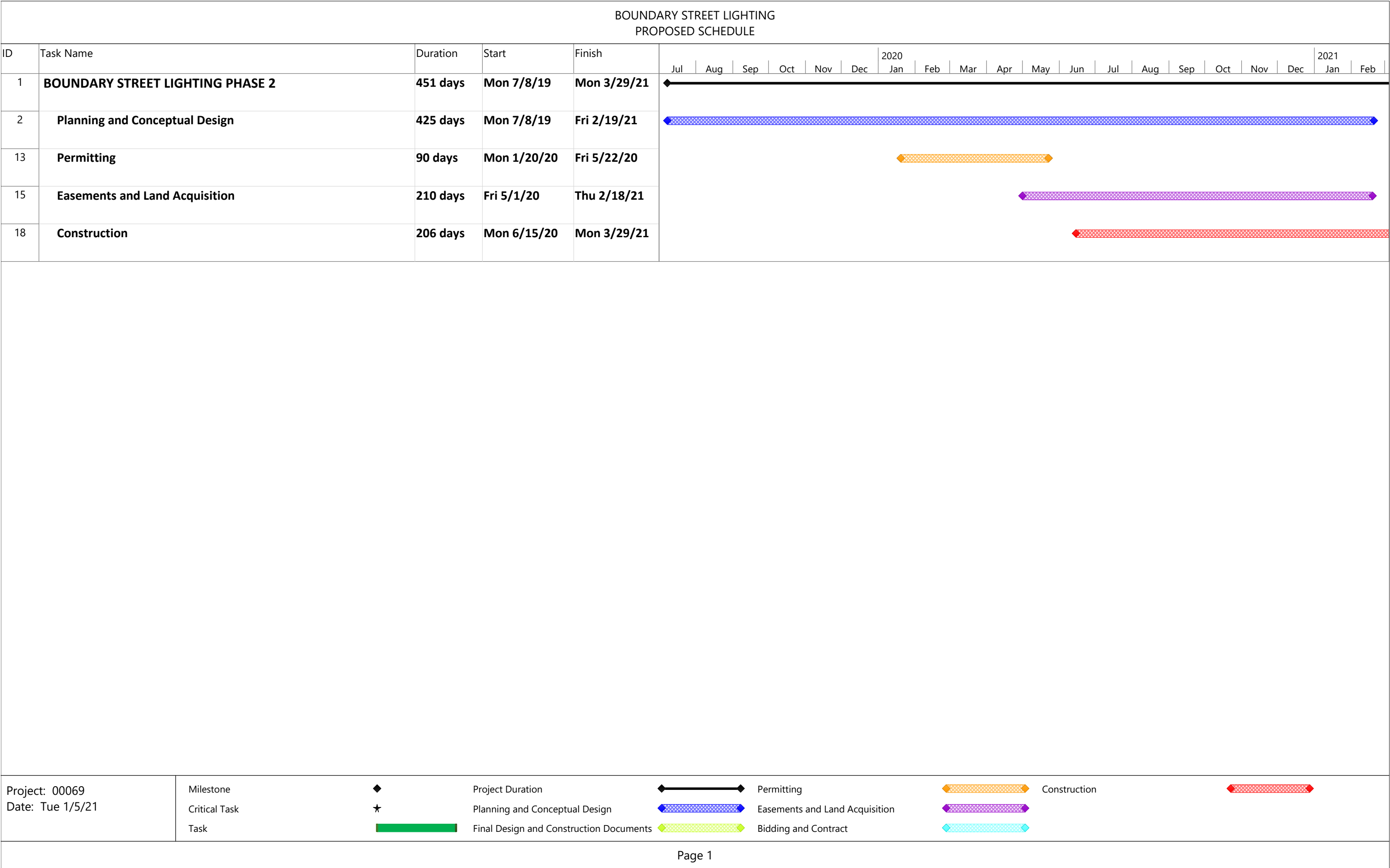




SQUIRE POPE CARRIAGE HOUSE PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2021 Jan	Feb	Mar	Apr	May	Jun	Jul
1	Squire Pope Carriage House	323 days	Fri 4/17/20	Tue 7/13/21																
2	Planning and Conceptual Design	10 days	Fri 4/17/20	Thu 4/30/20																
5	Final Design and Construction Documents	162 days	Fri 5/1/20	Mon 12/14/20																
10	Permitting	55 days	Mon 12/21/20	Sun 3/7/21																
13	Bidding and Contracts	91 days	Tue 3/9/21	Tue 7/13/21																

Project: 00067 Date: Wed 1/27/21	Milestone	◆	Project Duration	◆————◆	Permitting	◆————◆	Construction	◆————◆
	Critical Task	★	Planing and Conceptual Design	◆————◆	Easements and Land Acquisitions	◆————◆		
	Task	■	Final Design and Construction Documents	◆————◆	Bidding and Contracts	◆————◆		



<p>HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 1 PROPOSED SCHEDULE</p>	
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ID	Task Name	Duration	Start	Finish																																			
					Half 2, 2018							Half 1, 2019					Half 2, 2019					Half 1, 2020					Half 2, 2020					Half 1, 2021							
					J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
1	PHASE 1	713 days	Tue 7/3/18	Thu 3/25/21																																			
2	Planning and Conceptual Design	239 days	Tue 7/3/18	Fri 5/31/19																																			
9	Final Design and Construction Documents	65 days	Mon 6/3/19	Fri 8/30/19																																			
11	Permitting	140 days	Mon 9/2/19	Fri 3/13/20																																			
14	Easements and Land Acquisition	105 days	Mon 3/16/20	Fri 8/7/20																																			
17	Bidding and Contracts	62 days	Mon 3/16/20	Tue 6/9/20																																			
22	Construction	192 days	Wed 6/10/20	Thu 3/4/21																																			

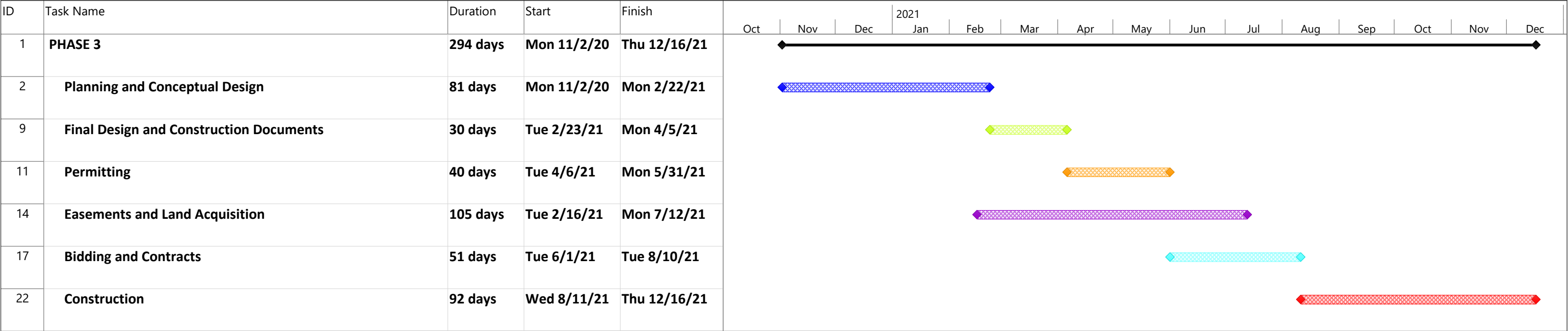
Project: 00070 Date: Wed 1/27/21	Milestone	◆	Project Duration	◆————◆	Permitting	◆————◆	Construction	◆————◆
	Critical Task	★	Planing and Conceptual Design	◆————◆	Easements and Land Acquisitions	◆————◆		
	Task	■	Final Design and Construction Documents	◆————◆	Bidding and Contracts	◆————◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 2 PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Timeline (2018-2021)																																												
					Half 2, 2018							Half 1, 2019							Half 2, 2019							Half 1, 2020							Half 2, 2020							Half 1, 2021							Half 2, 2021		
					J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
1	PHASE 2	829 days	Mon 7/2/18	Thu 9/2/21	◆																																												
2	Planning and Conceptual Design	185 days	Mon 7/2/18	Fri 3/15/19	◆																																												
10	Final Design and Construction Documents	20 days	Mon 3/18/19	Fri 4/12/19	◆																																												
12	Permitting	55 days	Mon 4/15/19	Fri 6/28/19	◆																																												
15	Easements and Land Acquisition	420 days	Mon 7/1/19	Fri 2/5/21	◆																																												
17	Bidding and Contracts	72 days	Mon 2/8/21	Tue 5/18/21	◆																																												
22	Construction	77 days	Wed 5/19/21	Thu 9/2/21	◆																																												

Project: 00071 Date: Tue 1/5/21	Milestone	◆	Project Duration	◆————◆	Permitting	◆————◆	Construction	◆————◆
	Critical Task	★	Planing and Conceptual Design	◆————◆	Easements and Land Acquisitions	◆————◆		
	Task	■	Final Design and Construction Documents	◆————◆	Bidding and Contracts	◆————◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 3
PROPOSED SCHEDULE

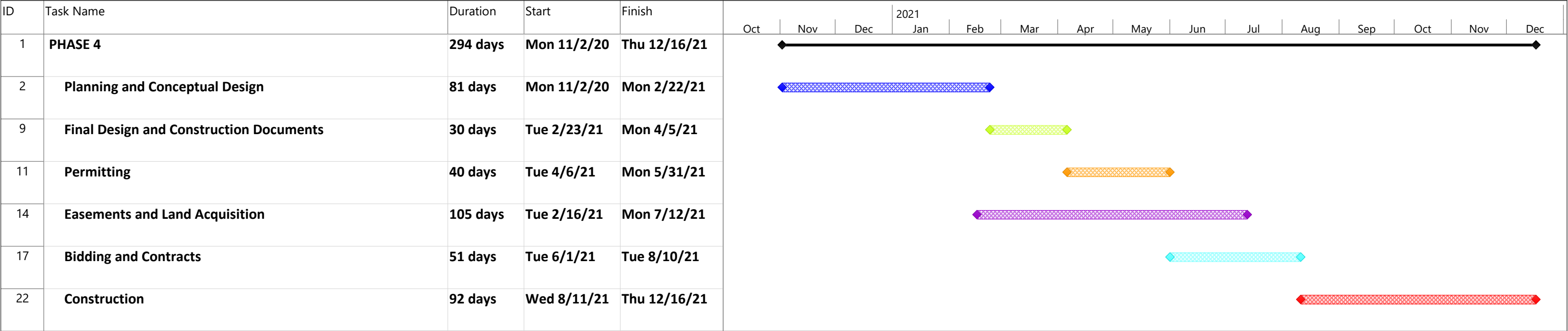


Project: 00072
Date: Tue 1/5/21

- Milestone ◆
- Critical Task ★
- Task

- Project Duration
- Planing and Conceptual Design
- Final Design and Construction Documents
- Permitting
- Easements and Land Acquisitions
- Bidding and Contracts
- Construction

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 4
PROPOSED SCHEDULE



Project: 00073
Date: Tue 1/5/21

Milestone

Critical Task

Task

◆

★

Project Duration

Planing and Conceptual Design

Final Design and Construction Documents

Permitting

Easements and Land Acquisitions

Bidding and Contracts

Construction

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 5 PROPOSED SCHEDULE

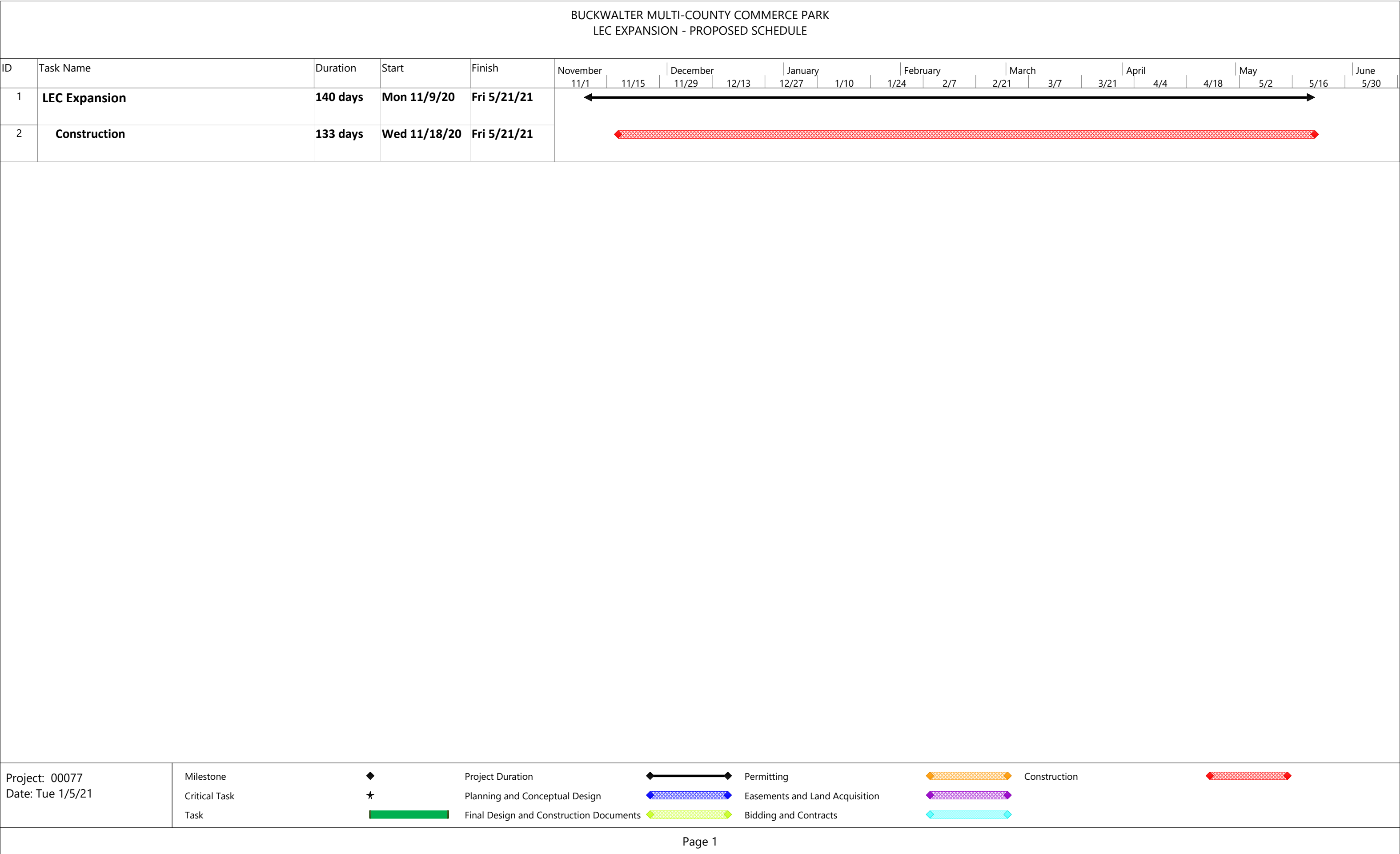
ID	Task Name	Duration	Start	Finish	2021																		2022
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan			
1	PHASE 5	294 days	Mon 11/2/20	Thu 12/16/21																			
2	Planning and Conceptual Design	81 days	Mon 11/2/20	Mon 2/22/21																			
9	Final Design and Construction Documents	30 days	Tue 2/23/21	Mon 4/5/21																			
11	Permitting	40 days	Tue 4/6/21	Mon 5/31/21																			
14	Easements and Land Acquisition	105 days	Tue 2/16/21	Mon 7/12/21																			
17	Bidding and Contracts	51 days	Tue 6/1/21	Tue 8/10/21																			
22	Construction	92 days	Wed 8/11/21	Thu 12/16/21																			

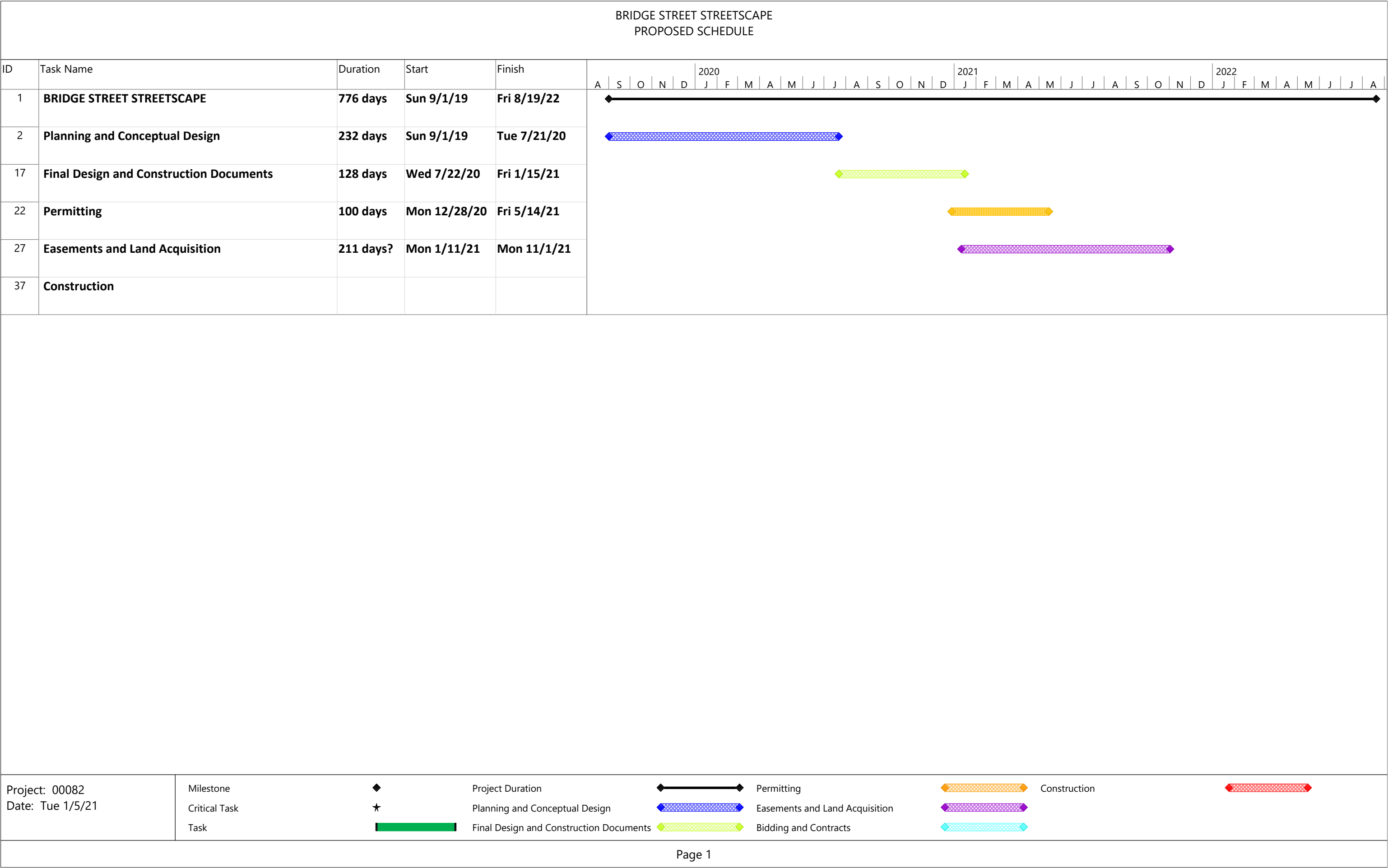
Project: 00074 Date: Tue 1/5/21	Milestone	◆	Project Duration	◆————◆	Permitting	◆————◆	Construction	◆————◆
	Critical Task	★	Planing and Conceptual Design	◆————◆	Easements and Land Acquisitions	◆————◆		
	Task	■	Final Design and Construction Documents	◆————◆	Bidding and Contracts	◆————◆		

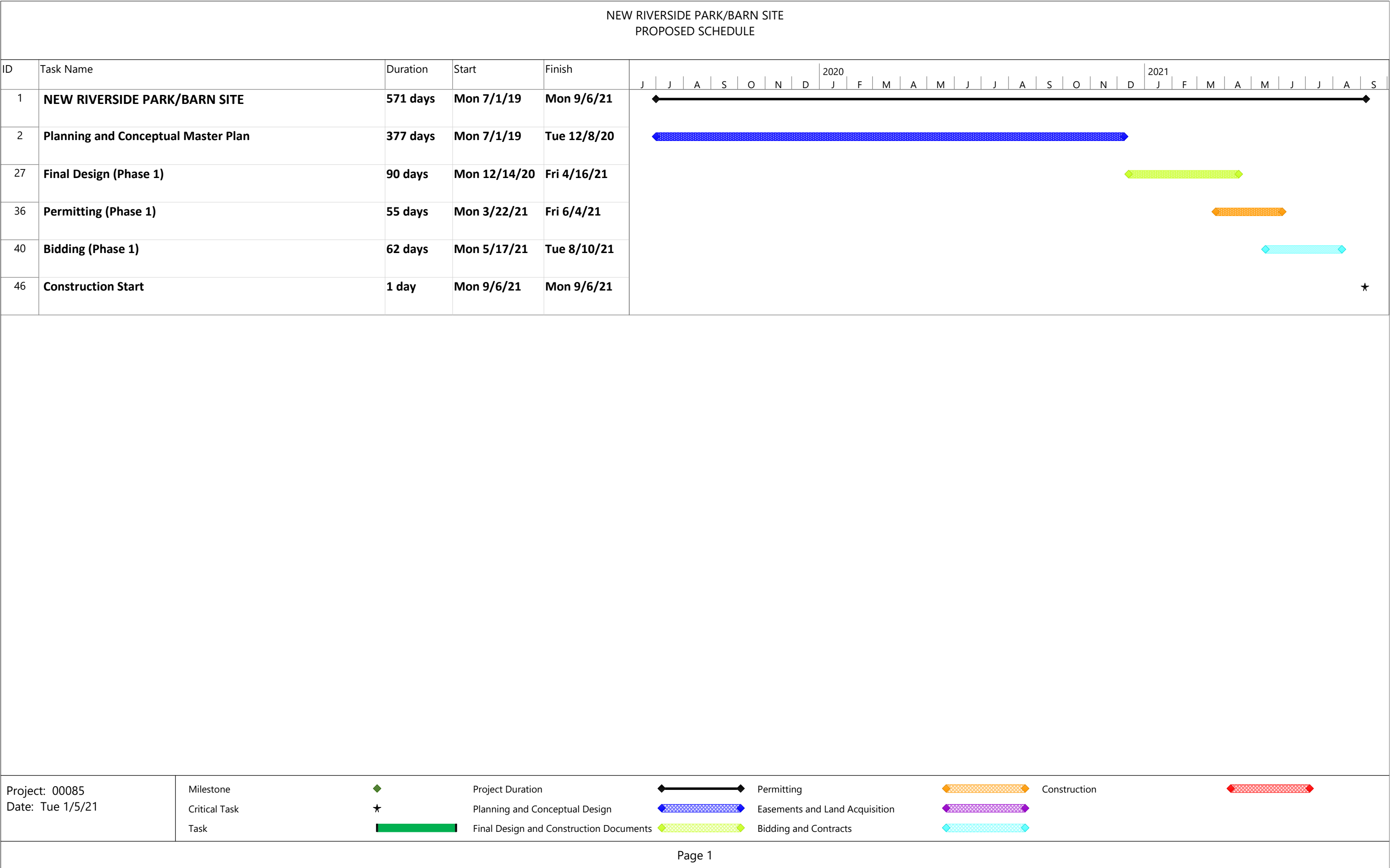
<p>HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 6 PROPOSED SCHEDULE</p>	
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ID	Task Name	Duration	Start	Finish	2021																	2022	
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan			
1	PHASE 6	294 days	Mon 11/2/20	Thu 12/16/21																			
2	Planning and Conceptual Design	81 days	Mon 11/2/20	Mon 2/22/21																			
9	Final Design and Construction Documents	30 days	Tue 2/23/21	Mon 4/5/21																			
11	Permitting	40 days	Tue 4/6/21	Mon 5/31/21																			
14	Easements and Land Acquisition	105 days	Tue 2/16/21	Mon 7/12/21																			
17	Bidding and Contracts	51 days	Tue 6/1/21	Tue 8/10/21																			
22	Construction	92 days	Wed 8/11/21	Thu 12/16/21																			

Project: 00075 Date: Tue 1/5/21	Milestone	◆	Project Duration	◆————◆	Permitting	◆————◆	Construction	◆————◆
	Critical Task	★	Planing and Conceptual Design	◆————◆	Easements and Land Acquisitions	◆————◆		
	Task	■	Final Design and Construction Documents	◆————◆	Bidding and Contracts	◆————◆		







BOUNDARY STREET STREETSCAPE PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Septem B M E	October B M E	Novem B M E	Decemt B M E	January B M E	Februa B M E	March B M E	April B M E	May B M E	June B M E	July B M E	August B M E	Septem B M E	October B M E	Novem B M E	Decemt B M E	January B M E	Februa B M E	March B M E	April B M E	May B M E	June B M E	July B M E	August B M E	Septem B M E	October B M E						
1	BOUNDARY STREET STREETSCAPE	536 days	Mon 9/7/20	Mon 9/26/22																																
2	Planning and Conceptual Design	178 days	Mon 9/7/20	Wed 5/12/21																																
13	Final Planning and Construction Documents	188 days	Wed 2/17/21	Fri 11/5/21																																
27	Permitting Phase	55 days	Mon 8/9/21	Fri 10/22/21																																
32	Easements and Land Acquisition	296 days	Mon 8/9/21	Mon 9/26/22																																
41	Construction																																			

Project: 00094 Date: Wed 1/27/21	Milestone	◆	Project Duration	◆————◆	Permitting	◆————◆	Construction	◆————◆
	Critical Task	★	Planning and Conceptual Design	◆————◆	Bidding and Contract	◆————◆		
	Task	■	Final Design and Construction Documents	◆————◆	Easements and Land Acquisitions	◆————◆		