

Attachment C – Activity Work Plan

Subrecipient City of Lakeland Activity: Lake Bonnet Drainage Flood Hazard and Debris Mitigation Project Project Budget: \$42,986,390.00
 Contract Number: MT047 Date Prepared: December 10, 2024 Modification Number: 6

Start Date (month/year)	End Date (month/year)	Describe Proposed Action to be Completed by the “End Date.” <i>Examples of Actions:</i> Procure Administrator or Engineer, Complete Environmental Review and Obtain Release of Funds, Request Wage Decision, Complete and Submit Design and Specifications, Advertise for and Open Bids, Issue Notice to Proceed, Construction Completion (33, 66, and 100 percent or 25, 50, 75, and 100 percent), Complete Construction Procurement Process, Advertise Availability of Housing Rehabilitation Funds, Complete Rankings of Homes per HAP, Number of Houses Rehabilitated and Submit Closeout Package to DEO.	Estimated Units to be Completed by the “End Date”	Estimated Funds to be Requested by the “End Date”
11/22	10/28	1a. Financial records maintenance, preparation, and submittal of monthly and quarterly reports, HUD reports, SERA forms, and Audit reports A-1 Deliverables: A.6. Project Implementation - Maintain financial records related to project activities on-site. A.14 . Prepare financial activity reports for submission to Commerce. A.15 . Prepare and submit detailed monthly and quarterly reports to Commerce. A.16 . Prepare and submit Section 3 reports to Commerce. A.17 Respond to citizens’ complaints.	96	\$1,593,290.96
12/23	10/28	1b. Conduct stakeholder meetings (with property owners within the project area) and prepare meeting minutes. Provide community engagement and outreach activities, public meetings, and information sharing via social media and/or other methods as outlined in DOC Agreement No MT047 Project implementation through Phase 1, Phase 2, and Phase 3 A-1 Deliverables: A.5. Project Implementation - Prepare and submit public notices for publications. A.11 . Conduct Community Engagement, Public Meetings, and Outreach requirements.	12	\$347,163.12
12/22	12/23	1c. Prepare and submit bid documents and specifications for environmental consulting services, including NEPA review, program oversight, project design, and engineering, for review and approval by DOC A-1 Deliverables: A.3. Project Implementation - Prepare procurement documents. A.8 . Attend a pre-bid conference, bid opening, or preconstruction meeting. A.18 . Prepare subgrant modification document for submission to Commerce for review and approval.	1	\$40,000
1/23	12/23	1c. Advertise for and open bids for environmental consulting services, evaluate and rank bids, issue notice to proceed to selected subcontractor, prepare contract documents A-1 Deliverables: A.3. Project Implementation - Prepare procurement documents. A.8 . Attend a pre-bid conference, bid opening, or preconstruction meeting. A.18 Prepare subgrant modification document for submission to Commerce for review and approval.	1	\$10,000
12/22	10/28	1d. Monthly project planning meetings with City staff, vendors, subcontractors, and regulatory agencies, and preparation and submittal of meeting minutes to City and DOC as outlined in DEO Agreement No. MT047 Project Implementation through Phase 1, Phase 2, and Phase 3 (estimated 72 months) A-1 Deliverables: A.12. Project Implementation - Conduct project planning meetings with the Subrecipient’s local governing body, vendors, subcontractors, and	72	\$989,443.39

		regulatory agencies to provide progress reports on subgrant activities; submit meeting attendance and minutes to Commerce.		
6/24 12/24	2/25	1e. Complete NEPA review (field investigations, records review, and site surveys) <u>A-1</u> <u>Deliverables: C.3. Engineering and Design</u> – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings.	1	\$174,942.41
9/24 12/24	1/25 6/25	1f. Prepare and submit NEPA/Findings and Recommendations Report (DRAFT) <u>A-1</u> <u>Deliverables: C.3. Engineering and Design</u> – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings.	1	\$57,369.90
11/24 6/25	2/25 12/25	1f. Prepare and submit NEPA Findings and Recommendations Report (FINAL) <u>A-1</u> <u>Deliverables: C.3. Engineering and Design</u> – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings.	1	\$54,746.50
11/23	10/28	1g. Project Oversight and Program Management, communications with regulatory agencies, QA/QC oversight, compliance maintenance, etc., as outlined in DOC Agreement No MT047 Project Implementation through Phase 1, Phase 2, and Phase 3 <u>A-1 Deliverables: A.2. Project Implementation</u> - Develop policies for the Recipient to adopt related to special conditions listed in the subgrant agreement. <u>A.4</u> Prepare a list of minority and women business enterprise (MBE/WBE) firms that operate in the Recipient's area. <u>A.7</u> . Conduct a Fair Housing activity. <u>A.9</u> . Review contractor payrolls and interview employees to determine compliance with the Davis-Bacon Act, the Contract Work Hours and Safety Standards Act, and the Copeland "Anti-Kickback" Act. <u>A.10</u> . Maintain Project Files. <u>A.13</u> . Prepare documentation for, or participate in monitoring visits in person or virtually during monitoring with Commerce. <u>A.19</u> . Prepare responses to monitoring findings and concerns for the recipient to submit to Commerce or HUD.	72	\$2,092,098.11
12/23	09/24 11/24	2a. Floodway Encroachment Analysis (field investigations, records review, and site visits) <u>A-1 Deliverables: B.1 Feasibility Study</u> - Floodplain management and environmental review requirements. The sub-recipient will perform activities including the following: A floodway encroachment and environmental analysis to evaluate the hydraulic impact of the proposed pump station in the regulatory floodway, per 44 CFR 60.3(d)(3).	4	\$273,900.19
4/24 11/24	9/24 12/24	2a. Prepare and submit DRAFT Floodway Encroachment Analysis report with findings and recommendations <u>A-1 Deliverables: B.1 Feasibility Study</u> - Floodplain management and environmental review requirements. The sub-recipient will perform activities including the following: A floodway encroachment and environmental analysis to evaluate the hydraulic impact of the proposed pump station in the regulatory floodway, per 44 CFR 60.3(d)(3).	1	\$39,865.77

5/24 12/24	10/24 12/24	2a. Prepare and submit FINAL Floodway Encroachment Analysis report with findings and recommendations A-1 Deliverables: B.1. Feasibility Study - Floodplain management and environmental review requirements. The sub-recipient will perform activities including the following: A floodway encroachment and environmental analysis to evaluate the hydraulic impact of the proposed pump station in the regulatory floodway, per 44 CFR 60.3(d)(3).	1	\$18,134.17
12/23 6/25	10/24 2/26	2b. Complete FEMA review and coordination, prepare Letter of Map Revision (as needed) A-1 Deliverables: B.1. (b) Feasibility Study - If the floodway encroachment analysis indicates an increase in base flood evaluation, the city must apply for a Conditional Letter of Map Revision (CLOMR) and receive FEMA approval prior to construction (44 CFR 60.3(d)(4)). This must be accounted for in the revised project budget and schedule.	3	\$14,676.95
12/23 12/24	2/25	2c. Complete pre-application meetings with permitting agencies, including Southwest Florida Water Management District (SWFWMD), Florida Department of Environmental Protection (FDEP), US Army Corp of Engineers (USACoE) A-1 Deliverables: B.1. (c) Feasibility Study - Define necessary state, federal, and local permitting requirements. Early coordination with permitting agencies to confirm the need and schedule for permits and obtain project feedback is required.	4	\$19,937.37
11/23	02/25	2d. Stakeholder coordination with property owners within the Feasibility Study project area to obtain site access and review the scope of work A-1 Deliverables: B.2. Feasibility Study - The sub-recipient will specify property required to obtain easements for project implementation and: (a) Coordinate with property owners in accordance with Uniform Relocation Act requirements, and (c). Scope community engagement specifics during design and construction, including number of public meetings held.	1	\$27,811.25
12/23	09/24	2e. Conduct surveys, site inspections, property records review, property appraisals, and land/easement acquisition study A-1 Deliverables: B.2. (b) Feasibility Study - Conduct necessary surveys, site inspections, and appraisals and calculate subcontractor fees, real estate fees, and all other materials necessary to complete the valuation and purchase of land required to access the site and complete construction.	5	\$53,159.67
12/23	04/24	2f. Prepare and submit project technical scope, schedule, budget review, and refinement to DOC for approval A-1 Deliverables: B.3. Feasibility Study - Floodway Encroachment Analysis . The sub-recipient will perform limited engineering and design activities, as reasonable and necessary, to complete the required flood plain management analysis component of the feasibility study. These engineering and design elements will include and be limited to the following required surveys listed in B.3. a – d below (or 2g -2j).	3	\$60,354.83
12/23	03/24	2g. Complete Topographic & Boundary Survey of the project study area A-1 Deliverables: B.3. (a) Feasibility Study - Topographic Survey.	2	\$71,559.06
12/23	04/24	2h. Complete Wetlands Delineation in project study area A-1 Deliverables: B.3. (b) Feasibility Study - Wetlands Delineation.	1	\$87,153.44

12/23	04/24	2i. Complete Bathymetric Mapping and Sediment Thickness Survey <u>A-1 Deliverables: B.3. (c) Feasibility Study</u> - Bathymetric and sediment thickness survey.	2	\$181,751.77
12/23	04/24	2j. Complete LiDAR Survey of project study area <u>A-1 Deliverables: B.3. (d) Feasibility Study</u> - LiDAR Survey.	1	\$55,938.31
02/24	09/24	2k. Complete Project Feasibility Study & Implementation Plan DRAFT report <u>A-1 Deliverables: B.4. Feasibility Study</u> - Copy of the Feasibility Study and proposed updated Scope of Work. The sub-recipient will provide the above-mentioned documentation outlining the project for Commerce's review and approval prior to moving forward with the project. The Feasibility Study should confirm the final scope of work, properties needed for acquisition, project schedule, project budget and leveraged funds, and maintenance procedures and funding sources. The sub-recipient will confirm that any changes proposed to the initial project will still meet a National Objective and that the low-to-moderate income analysis for the project is revised, if necessary.	2	\$198,196.82
09/24	10/24	2k. Complete Project Feasibility Study & Implementation Plan FINAL report <u>A-1 Deliverables: B.4. Feasibility Study</u> - Copy of the Feasibility Study and proposed updated Scope of Work. The sub-recipient will provide the above-mentioned documentation outlining the project for Commerce's review and approval prior to moving forward with the project. The Feasibility Study should confirm the final scope of work, properties needed for acquisition, project schedule, project budget and leveraged funds, and maintenance procedures and funding sources. The sub-recipient will confirm that any changes proposed to the initial project will still meet a National Objective and that the low-to-moderate income analysis for the project is revised, if necessary.	2	\$42,564.22
07/24	10/24	2l. Complete and submit 15% Preliminary Design Report for Dredge Operations, Wetland Rehabilitation, and Littoral Zone Restoration <u>A-1 Deliverables: B.3. Feasibility Study</u> - Floodway Encroachment Analysis. Limited Engineering and Design Activities.	3	\$201,772.45
5/24	10/24	2m. Complete and submit 15% Preliminary Design Report for Flood Protection Mitigation <u>A-1 Deliverables: B.3. Feasibility Study</u> - Floodway Encroachment Analysis. Limited Engineering and Design Activities.	1	\$193,920.66
11/23	10/25 12/26	3a. Complete easement and property acquisitions (budget includes sub-consultant time and \$\$ to purchase property) <u>A-1 Deliverables: D.1 Construction</u> Acquire property necessary for project construction (including wetland dredging and flood relief infrastructure), including permanent easements, in accordance with the HUD Handbook for Tenant Assistance, Relocation, and Real Property Acquisition Handbook (Handbook 1378). Provide copies of acquisition and closing paperwork to Commerce.	20	\$278,237.73
06/24	05/25	3b. Complete Work Plans for field investigation work, including Health & Safety Plan, Emergency Response Plan, Sampling & Analysis Plan, and Quality Assurance Project Plan <u>A-1 Deliverables: C.1. Engineering and Design</u> Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports,	4	\$108,160.72

		documents, or information relevant to this project that meet all local current hurricane code ratings, local codes and building codes.		
7/24	11/25	3c. Complete sediment sampling field investigation, laboratory analysis, and summary report <u>A-1 Deliverables:</u> 3 Engineering and Design – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings.	3	\$324,075.00
7/24	02/26	3d. Complete geotechnical field investigation, laboratory analysis, and summary report <u>A-1 Deliverables:</u> 3 Engineering and Design – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings.	3	\$193,606.33
7/24	2/25	3e. Complete groundwater impact field investigation (monitoring well and seepage meter install, sampling, and laboratory analysis) and summary report <u>A-1 Deliverables:</u> 3 Engineering and Design – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings.	5	\$146,746.95
7/24	3/25	3f. Complete treatability testing/evaluation and summary report <u>A-1 Deliverables:</u> 3 Engineering and Design – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings.	3	\$96,495.98
2/25	5/25	3g. Complete Construction Design Plans (60%) for Dredge Operations, Wetland Restoration, and Littoral Zone Rehabilitation <u>A-1 Deliverables:</u> 1 Engineering and Design . Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes.	3	\$219,138.74
9/25	11/25	3h. Complete Construction Design Plans (90%) for Dredge Operations, Wetland Restoration, and Littoral Zone Rehabilitation <u>A-1 Deliverables:</u> 1 Engineering and Design . Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes.	3	\$137,290.86
12/25	01/26	3i. Complete Construction Design Plans (100%) for Dredge Operations, Wetland Restoration, and Littoral Zone Rehabilitation <u>A-1 Deliverables:</u> 1 Engineering and Design . Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports,	3	\$84,961.60

		documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes.		
8/24 6/25	9/25	3j. Complete Value Engineering & Constructability Review and Summary Report A-1 Deliverables: C.1. Engineering and Design Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes.	3	\$60,023.80
7/24 3/25	7/25 2/26	3k. State, Local, and Federal Permit application and submittals (SWFWMD, FDEP, USACoE, and Building) A-1 Deliverables: C.2. Engineering and Design Obtain copies of all permit applications, correspondence with permitting agencies, final permits, and any other permit-related documentation for the project.	4	\$93,611.07
9/24 1/25	02/25 9/25	3l. Complete Construction Design Plans (60%) for Flood Protection Mitigation A-1 Deliverables: C.1. Engineering and Design Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes.	1	\$209,871.10
9/25	11/25 12/25	3m. Complete Construction Design Plans (90%) for Flood Protection Mitigation, and submit to DEO for review A-1 Deliverables: C.1. Engineering and Design Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes.	1	\$154,485.12
12/25	01/26 03/26	3n. Complete Construction Design Plans (100%) for Flood Protection Mitigation A-1 Deliverables: C.1. Engineering and Design Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes.	1	\$77,490.69
02/26	03/26	3o. Complete Construction Design and Bid Specification Package for Dredge Operations, Wetland Restoration and Littoral Zone Rehabilitation and submit to DEO for review and approval A-1 Deliverables: C.1. Engineering and Design Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes.	1	\$112,707.74

2/26 3/26	3/26 5/26	3p. Complete Construction Design and Bid Specification Package for Flood Protection Mitigation and submit to DEO for review and approval <u>A-1 Deliverables:</u> E.1. Engineering and Design - Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes.	1	\$124,306.82
3/26 5/26	4/26 6/26	4a. Construction bid notifications for dredging operations and sediment management, subcontractor site visit, bid review, bid award & notification to the most responsive bidder(s). Complete procurement package and submit to DEO for review and approval <u>A-1 Deliverables:</u> A.3. Project Implementation - Prepare procurement documents.	4	\$45,000
3/26 5/26	4/26 6/26	4m. Construction bid notification for flood protection mitigation (weir removal, embankment stabilization, pump station construction, culvert retrofits, canal modifications, and flood relief diversion infrastructure), subcontractor site visit, bid review, bid award & notification to most responsive bidder(s). Complete the procurement package and submit it to DEO for review and approval. <u>A-1 Deliverables:</u> A.3. Project Implementation - Prepare procurement documents.	4	\$53,007.18
2/25	3/26 6/26	4c. Complete construction oversight work plans (Health & Safety, Emergency Response & Preparedness) <u>A-1 Deliverables:</u> D.2. Construction - Conduct, coordinate, manage, monitor and review construction project to provide contractor oversight, project management, planning, design, and construction of project via monthly meetings.	3	\$51,786.10
5/25	10/28	4b. Construction Management & Vendor/Subcontractor Oversight, monthly project status review/updates as outlined in DOC Agreement No MT047 throughout Phase 3 <u>A-1 Deliverables:</u> D.2. Construction - Conduct, coordinate, manage, monitor and review construction project to provide contractor oversight, project management, planning, design, and construction of project via monthly meetings.	48	\$1,834,500.87
5/25	10/28	4d. Lake Bonnet sediment removal/dredging equipment mobilization <u>A-1 Deliverables:</u> D.3. Construction - Complete the mobilization and demobilization of dredging equipment to the project location to begin and complete Lake Bonnet bottom dredging operations to remove an estimated 425,000 cubic yards (cy) of sediment.	3	\$418,000
10/28	10/28	4l. Lake Bonnet sediment removal/dredging equipment demobilization <u>A-1 Deliverables:</u> D.3. Construction - Complete the mobilization and demobilization of dredging equipment to the project location to begin and complete Lake Bonnet bottom dredging operations to remove an estimated 425,000 cubic yards (cy) of sediment.	3	\$418,000
5/25	10/28	4e. Construct dredge materials management area(s) (DMMA) and dewatering operations for contaminated sediment <u>A-1 Deliverables:</u> D.4. Construction - Conduct separation of contaminated sediment, placement of contaminated dredged sediment at separate dredge material management area, and completion of ex-situ dewatering activities. Includes sediment management unit preparation and restoration, tubes, polymer, equipment, piping, valves, polyethylene liner and equipment.	1	\$540,830

5/25	10/28	<p>4f. Construct geocells and aquadams for non-contaminated sediment</p> <p><u>A-1 Deliverables:</u> D.7. Construction – Construct geocells and aqua dams to provide for placement of degraded wetland on the east side of Lake Bonnet. Anticipating 74,000 cy of dredge material emplacement annually.</p>	1	\$600,000
5/25	10/28	<p>4g. Lake Bonnet sediment dredging operations, separation of contaminated vs. non-contaminated sediment (approximately 425,000 cubic yards)</p> <p><u>A-1 Deliverables:</u> D.4. Construction -</p> <p>Conduct separation of contaminated sediment, placement of contaminated dredged sediment at separate dredge material management area, and completion of ex-situ dewatering activities. Includes sediment management unit preparation and restoration, tubes, polymer, equipment, piping, valves, polyethylene liner and equipment.</p>	1	\$2,790,179
6/25	10/28	<p>4h. Emplace non-contaminated sediment in geocells and complete wetland rehabilitation</p> <p><u>A-1 Deliverables:</u> D.3. Construction - Conduct separation of contaminated sediment, placement of contaminated dredged sediment at separate dredge material management area, and completion of ex-situ dewatering activities. Includes sediment management unit preparation and restoration, tubes, polymer, equipment, piping, valves, polyethylene liner and equipment.</p>	1	\$6,696,429
6/25	10/28	<p>4i. Emplace contaminated sediment in DMMA and complete dewatering operations</p> <p><u>A-1 Deliverables:</u> D.3. Construction - Conduct separation of contaminated sediment, placement of contaminated dredged sediment at separate dredge material management area, and completion of ex-situ dewatering activities. Includes sediment management unit preparation and restoration, tubes, polymer, equipment, piping, valves, polyethylene liner and equipment.</p>	1	\$230,000
6/25	10/28	<p>4j. Loading/transport/disposal of approximately 58,000 cubic yards of contaminated sediment (includes laboratory analysis, manifest preparation, and tracking)</p> <p><u>A-1 Deliverables:</u> D.5. Construction – Loading, transportation, and disposal of contaminated sediment and dredge material; this includes sample collection (sampling) and laboratory analysis.</p>	1	\$2,232,140
6/25	10/28	<p>4k. Thin layer sand capping and littoral zone restoration</p> <p><u>A-1 Deliverables:</u> D.6. Construction -Emplace the sand cap over approximately 10 acres of littoral zone around the shoreline of Lake Bonnet with clean sand, native vegetation supplies, and any other necessary media for rehabilitation.</p>	1	\$1,116,071
8/25	10/25	<p>4n. Demolition of dilapidated weir in Bonnet Canal</p> <p><u>A-1 Deliverables:</u> D.8. Construction – Demolish and remove dilapidated weir structure; reconstruct and restore the canal at this location.</p>	1	\$198,329
6/25	6/26	<p>4o. Regrading and stabilization of the west Lake Bonnet embankment</p> <p><u>A-1 Deliverables:</u> D.9. Construction – Complete regrading and stabilization of the western side of Lake Bonnet, to include constructing and installing structural reinforcement of the embankment.</p>	1	\$2,016,000
6/26	6/27	<p>4p. Construct and install pump station, 42” force main, and ancillary equipment for pumping water from Lake Bonnet Canal to Lake Bonnet</p> <p><u>A-1 Deliverables:</u> D.10. Construction – Construct a pump station and installation of 100 cubic foot per second (cfs) pump, instrumentation, 43” force main, power drop/wire and any</p>	1	\$2,135,196

		additional ancillary equipment necessary to achieve pumping from the Lake Bonnet Canal into Lake Bonnet during storm events.		
6/27	8/27	4q. Install pump station power drop <u>A-1 Deliverables:</u> D 10. Construction - Construct a pump station and installation of 100 cubic foot per second (cfs) pump, instrumentation, 43” force main, power drop/wire, and any additional ancillary equipment necessary to achieve pumping from the Lake Bonnet Canal into Lake Bonnet during storm events.	1	\$40,000
1/25	6/27	4r. Retrofit/construct culverts at May Manor Crossing <u>A-1 Deliverables:</u> D 11. Construction – Retrofit and reconstruct existing concrete culverts at May Manor Crossing and placement of bank stabilization structures within the Lake Bonnet drainage canal.	1	\$457,380
1/25	6/27	4s. Retrofit/construct culverts at Bridge Boulevard <u>A-1 Deliverables:</u> D 12. Construction – Retrofit and reconstruct existing concrete culverts at Bridge Boulevard and placement of bank stabilization structures within the Lake Bonnet drainage canal.	1	\$457,380
1/25	6/27	4t. Lake Bonnet Canal modifications/retrofit (excavation, bank stabilization, dewatering, transport and disposal of materials) <u>A-1 Deliverables:</u> D 9. Construction – D 9. Construction – Complete regrading and stabilization of the western side of Lake Bonnet, to include constructing and installing structural reinforcement of the embankment.	1	\$2,215,080
1/25	06/28	4u. Construction of flood relief diversion barriers, conveyance infrastructure, and retention/detention facilities <u>A-1 Deliverables:</u> D 13. Construction – Perform construction of flood relief diversion barriers (flood walls), drainage conveyances and infrastructure retention/detention facilities, electrical instrumentation, sump pumps, and other ancillary equipment as needed to alleviate flooding along the Lake Bonnet canal.	1	\$8,926,255
6/25	06/28	4v. Final Report delivery, including as-built engineering drawings and photo documentation. <u>A-1 Deliverables:</u> A.20. Project Implementation – Project Closeout, Engineer’s Certification of Completion, Grant Closeout Package completed and submitted to Commerce and D 14. Construction – Complete final deliverables including copies of final as-built drawings; photographs of the completed project; all inspection reports; project manager certification that the project was completed in accordance with all applicable codes and standards and in addition, all documentation related to required environmental conditions must be submitted in final project deliverables.	1	\$193,865.28