



STATE OF MISSISSIPPI

Tate Reeves
Governor

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES

Joe Spraggins, Executive Director

MEMORANDUM OF UNDERSTANDING BETWEEN THE MISSISSIPPI DEPARTMENT OF MARINE RESOURCES AND CITY OF DIAMONDHEAD

This Memorandum of Understanding (the "MOU") is entered into between the Mississippi Department of Marine Resources (hereinafter "MDMR") and City of Diamondhead (hereinafter "CODH") for the purpose of establishing the agreed upon conditions under which MDMR may allocate funds to CODH for Diamondhead Drainage, Flood Prevention & Water Quality Improvement Project Phase II ("the Project") pursuant to the Gulf of Mexico Energy Security Act of 2006, Public Law 109-432 (hereinafter "GOMESA"). This MOU is entered into pursuant to and subject to the terms of GOMESA and relates to MDMR funds obtained through GOMESA, in the amount of One Hundred Ninety-Three Thousand Five Hundred Seventy-Four Dollars (\$193,574.61). The CODH will use some or all of the funds, which will be provided on a reimbursement basis, to advance the Project. This MOU replaces the original MOU executed August 17, 2023 which is expired. It is necessary to enter into this MOU so that the Project may be completed.

RECITALS

WHEREAS, GOMESA authorizes the disbursement of funds for projects and activities for the purposes of coastal protection, including conservation, coastal restoration, hurricane

protection, infrastructure directly affected by coastal wetland losses, as well as mitigation of damage to fish, wildlife, or natural resources; and,

WHEREAS, funding for GOMESA is directed to the State of Mississippi through the Bureau of Ocean Energy Management within the Department of Interior; and,

WHEREAS, the Governor of the State of Mississippi has directed that MDMR will administer GOMESA funding for the State; and,

WHEREAS, MDMR is authorized to allocate and disburse GOMESA funds in accordance with GOMESA in a manner as determined by the MDMR; and,

WHEREAS, GOMESA funds are federal funds and cannot be used to match any other federal funds unless those programs specifically state that such funds can be used for matching; and,

WHEREAS, the primary goal of the Project consists of three subprojects (Kome Drive, Anahalo, and Fairway Drive) that will provide drainage infrastructure improvements, wetland restoration and improve detention facilities to reduce flooding, improve water quality and preserve downstream wetland and estuarine habitats. The subprojects that are associated will improve water flow characteristics, reduce the future possibility of flooding of roadways and homes in the area, improve water quality downstream and extend runoff times; and,

WHEREAS, CODH asserts that the Project will have a direct positive impact on coastal wetland losses by reducing stream bank and wetland erosion along the major drainageways within the City of Diamondhead and that the reduction in sedimentation will improve water quality in receiving streams and estuaries, and that the Project will implement recommendations made from the Hancock County Watershed-Based Stormwater Assessment and Management Plan which is a conservation management plan for Hancock County; and,

WHEREAS, the MDMR requests CODH maintain on file all documentation related to the receipt, investment and expenditure of the funds provided for the Project, and furnish any such documentation to the MDMR upon request; and,

WHEREAS, CODH agrees to expend the funds in accordance with the purposes as outlined in GOMESA; and,

WHEREAS, CODH agrees to provide quarterly and final reports to MDMR that summarize the expenditure of the funds reimbursed by MDMR and the status of the Project until such time as the final expenditure of these funds has been made; and,

WHEREAS, MDMR finds, consistent with GOMESA, that it is in the best interest of the State of Mississippi that funds made available from GOMESA should be allocated to CODH, on a reimbursement basis, for the Project.

NOW THEREFORE, IT IS MUTUALLY AGREED BY THE MISSISSIPPI DEPARTMENT OF MARINE RESOURCES AND CITY OF DIAMONDHEAD, AS FOLLOWS:

SECTION 1. Each and all of the facts and findings set forth in the preamble clauses of this memorandum are hereby found and determined to be true and accurate and are incorporated herein by this reference thereto as though set forth again in words and figures.

SECTION 2. This MOU shall be effective August 17, 2023 and shall remain in effect for a term of five years (60 months) for a total of five (5) years, unless terminated earlier. The term may be extended prior to expiration upon the written agreement of both parties.

SECTION 3. MDMR, pursuant to GOMESA, shall provided funds received from Mississippi's allocation of GOMESA in an amount of One Million Nine Hundred Ninety-Nine Thousand Eight Hundred Thirty-Nine Dollars (\$1,999,839.00), of which One Million Eight Hundred-Six Thousand Two Hundred Sixty-Four Dollard and Thirty-Nine Cents (\$1,806,264.39) has been spent leaving a balance of One Hundred Ninety-Three Thousand Five Hundred Seventy-Four Dollars and Sixty-One Cents (\$193,574.61) to CODH, on a reimbursement basis, for the purpose of providing funds to accomplish the Project as described herein.

SECTION 4. CODH shall request payment of funds hereunder for Project costs on a reimbursement basis (such requests, "Reimbursement Requests"), unless otherwise directed by MDMR. CODH shall submit written Reimbursement Requests no more frequently than monthly and no less frequently than quarterly. Each Reimbursement Request must be accompanied by detailed supporting documentation of costs incurred as required by MDMR. All Reimbursement Requests for time periods ending June 30 of any year during the term of this MOU shall be submitted no later than July 31 of that same year. MDMR will pay all properly documented Reimbursement Requests within forty-five (45) days after MDMR's receipt of same, except for any amounts disputed by MDMR in good faith. Reimbursement Requests shall be sent to Russell Weatherly, GOMESA Project Manager, Mississippi Department of Marine Resources, 1141 Bayview Avenue, Biloxi, MS 39530, russell.weatherly@dmr.ms.gov.

SECTION 5. CODH agrees to use all funds received from MDMR as allocated from GOMESA funding solely for the purposes set forth herein and authorized by GOMESA and upon the terms and provisions of this MOU; and further, by execution of this MOU, CODH does hereby certify that all GOMESA funds it receives from the MDMR shall be used exclusively for the Project. CODH understands that failure on its part to adhere to any provision within this MOU may result in termination of this MOU by the MDMR and in immediate action by the State to recover any improperly expended funds.

SECTION 6. CODH agrees to comply with all applicable provisions of CFR 2 §200, *et seq.*, including §200.501 which states that a non-Federal entity that expends One Million Dollars and No/100 (\$1,000,000.00) or more during the non-Federal entity's fiscal year in Federal awards must have a single or program-specific audit conducted for that year.

SECTION 7. CODH agrees to comply with all applicable provisions of Section 70914 of the Infrastructure Investment and Jobs Act (Pub. L. 117-58), also known as the Build America, Buy America Act.

SECTION 8. CODH agrees to maintain on file all documentation in accordance with the recitals of this MOU and to submit such documentation to MDMR upon request.

SECTION 9. CODH agrees to provide MDMR quarterly reports summarizing expenditure of GOMESA funds received from MDMR for the Project and the status of the Project until such time as the final expenditure or final investment of the funds has been made. The first quarterly report shall be provided within ninety (90) days of the effective date of this MOU, and thereafter within thirty (30) days of each calendar quarter end. CODH shall also provide MDMR with a final report summarizing the expenditures and use of the funds upon completion of the Project and final expenditure. Failure to timely submit reports may result in delay of payment of Reimbursement Requests. Reports shall be sent to Russell Weatherly, GOMESA Project Manager, Mississippi Department of Marine Resources, 1141 Bayview Avenue, Biloxi, MS 39530, russell.weatherly@dmr.ms.gov.

SECTION 10. CODH agrees to maintain copies of all invoices and documentation related to the funds allocated by MDMR for the Project sufficient to satisfy and confirm, to MDMR's satisfaction, that such funds have been expended **solely** for the purposes provided in GOMESA.

SECTION 11. CODH shall comply with and all activities under this MOU shall be subject to all applicable Federal, State, and local laws and regulations, as now existing and as may be amended or modified.

SECTION 12. CODH understands and acknowledges that if the Mississippi State Legislature fails to pass an appropriation bill for the MDMR and the prior year's appropriation bill expires, or if the Legislature fails to give MDMR the authority to expend funds, or if funds are otherwise unavailable, then the MDMR may, in its sole discretion, terminate this agreement or issue a Stop Work Order to CODH in lieu of termination. If a Stop Work Order is issued, CODH agrees to adhere to its terms.

SECTION 13. This MOU shall be governed by and construed in accordance with the laws of the State of Mississippi, excluding its conflict of laws provisions, and any litigation with respect thereto shall be brought in the state courts of Harrison County, Mississippi.

SECTION 14. Attached hereto as Attachment A and incorporated herein by reference is the document supporting the request for GOMESA funding submitted by CODH. This document outlines the scope of work to be completed for the Project. Any change in the scope of work is subject to approval by the MDMR in writing and may require an amendment to this MOU and written approval of the GOMESA Committee and others.

SECTION 15. Attached hereto as Attachment B and incorporated herein by reference is the budget for the Project submitted by CODH.

SECTION 16. Attached hereto as Attachment C and incorporated herein by reference is the Project Selection Form approved and executed by the GOMESA Committee. In the event of a discrepancy between Attachment A and Attachment C, Attachment C will govern.

SECTION 17. All notices or information required or permitted to be given pursuant to this MOU shall be in writing and personally delivered or sent by Certified United States mail, postage prepaid, return receipt requested, to the party to whom the notice should be given at the address set forth below. Notice shall be deemed given when actually received or when refused. The parties agree to promptly notify each other in writing of any change of address.

For CODH:

City of Diamondhead
Attention: Jon McCraw, City Manager
5000 Diamondhead Drive Circle
Diamondhead, MS 39525
JMcCraw@diamondhead.ms.gov

For MDMR:

Mississippi Department of Marine Resources
Attention: Joe Spraggins, Executive Director
1141 Bayview Ave.
Biloxi, Mississippi 39530
Email: crystal.matta@dmr.ms.gov

IN WITNESS WHEREOF, the parties have affixed their signatures on the dates indicated below.

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES

By: _____

Joe Spraggins, Executive Director

Date: _____

CITY OF DIAMONDHEAD

By: _____

Jon McCraw, City Manager

Date: _____

Attachment A



ENHANCE PROTECT CONSERVE

GOMESA PHASE II PROJECT FUNDING
Request for Funding FY2023

Official Use Only

Project Number: _____

Requesting Agency: _____

PROJECT SUMMARY

1. Title of Project:

red outlines indicate required fields

Diamondhead Drainage, Flood Prevention & Water Quality Improvement Project Phase II

2. Location of Project:

- Kome Project coordinates: 30° 23'418"N,89° 22'37"W
- Anahalo Project coordinates: 30° 23'42"N,89° 20'40"W
- Fairway Drive Project coordinates: 30°23'16"N, 89°22'12"W

3. Requesting Organization:

City of Diamondhead

4. Requesting Organization Representative:

a. Name: Jon McCraw

e. Address: 5000 Diamondhead Drive Circle
Diamondhead, MS 39525

b. Position City Manager

c. Phone: 228-222-4626

f. Email: JMcCraw@diamondhead.ms.gov

d. Fax:

5. Funding Requested:

\$1,999,839.00

6. Have any other State or Federal funding sources been identified for the project?

☐ Yes

☒ No

7. If yes, enter amount and source of additional funds:

Amount:

Source of Additional Funds:

8. Total Project Funds

\$1,999,839.00



GOMESA PHASE II PROJECT FUNDING

Request for Funding FY2023

PROJECT SUMMARY

9. Provide Brief Project Description/Overview:

The City of Diamondhead is seeking GOMESA funding from the Mississippi Department of Marine Resources for the Diamondhead Drainage, Flood Prevention & Water Quality Improvement Project Phase II. Phase I of the project was funded during the 2022 cycle and the proposed projects identified in Phase II include one of the subprojects that were not funded in Phase I due to budgetary constraints. Additionally, two subprojects have been identified as critical components to Diamondhead's drainage and water quality program specific to Watershed A (the largest watershed in the City of Diamondhead). The project consists of three subprojects that will provide drainage infrastructure improvements, wetland restoration and improve detention facilities to reduce flooding, improve water quality and preserve downstream wetland and estuarine habitats. The subprojects that are associated will improve water flow characteristics, reduce the future possibility of flooding of roadways and homes in the area, improve water quality downstream and extend runoff times.

As part of a county-wide effort, Waggoner Engineering produced the Hancock County Watershed-Based Stormwater Assessment and Management Plan in December 2019 that included a step-by-step plan for implementation. The plan created by Waggoner Engineering provided Hancock County a storm management plan for the long-term future of the County that was realistic and manageable. The county-wide effort by Waggoner Engineering resulted in a detailed project description for the three subprojects of the Diamondhead Drainage, Flood Prevention & Water Quality Improvement Project. The following pages contain the full project descriptions from the Waggoner Engineering produced plan for Kome Drive, Anahalo and Fairway Drive.

10. LIST Project Goals/Objectives:

- Kome Drive: Goals and objectives of this subproject are to improve flow characteristics, reduce possibility of flooding of roadway and homes in the area. The objectives include re-establishing ditch sections, ditch armoring to prevent erosion and replacing inadequate infrastructure with properly sized channels and culverts. The project will also investigate detention possibilities and establishing riparian buffers along streams in the Watershed.
- Anahalo: Goals and objectives of this subproject are to improve flow characteristics, reduce possibility of flooding of roadways and homes in the area, improved water quality downstream and extended runoff times. As documented by Waggoner Engineering, the reported problems are water over the road in a typical storm event and houses flooding in the area multiple times. Site is the singular out fall for watershed with no detention facility. Previous methods for the handling storm water are causing expedited runoff times. Open ditches have been eliminated in places where they are needed. The recommended solutions for this subproject are to: re-establish open ditch sections where water is being forced onto the roadways; incorporate LID drainage measures in the channel (step pool) that increase runoff times to mitigate immediate problems and aid in addressing those downstream; build inline and offline detention within the watershed.
- Fairway Drive: Goals and objects of this subproject are to improve flow characteristics, reduce possibility of flooding of roadways and homes in the area, extend future runoff times and improve water quality downstream. When documenting the reported problems with this subproject, Waggoner Engineering stated, "Ditch sections along Fairway drive and thru the easement are not large enough to accommodate the current volumes and there is potential for further development within the basins." The recommended solutions to remediate the problems associated with this subproject are to: Construct additional detention facilities, enlarge hydrologic section along Fairway Drive, remove, replace, install additional drainage structures under the roadway.



GOMESA PHASE II PROJECT FUNDING

Request for Funding FY2023

PROJECT SUMMARY

11. Which of the following authorized uses set forth in the GOMESA Act does this project fall under? Check all that apply. Explain SPECIFICALLY and in detail how the project meets the required criteria.

- ☒ (A) *Projects and activities for the purposes of coastal protection, including conservation, coastal restoration, hurricane protection, and infrastructure directly affected by coastal wetland losses*

The proposed drainage improvements identified in this project will have a direct positive impact on coastal wetland losses by reducing stream bank and wetland erosion along the major drainageways within diamondhead. Additionally, the reduction in sedimentation will improve water quality in receiving streams and estuaries.

- ☒ (B) *Mitigation of damage to fish, wildlife, or natural resources.*

The city of Diamondhead drains into Rotton Bayou, the Jordan River and tributaries to St. Louis Bay. These drainage projects will reduce erosion and improve water quality downstream which directly impacts natural resources in our bays and estuaries.

- ☒ (C) *Implementation of a federally-approved marine, coastal, or conservation management plan.*

The proposed project is implementing recommendations made from the Hancock County Watershed-Based Stormwater Assessment and Management Plan, a comprehensive conservation management plan for Hancock County.

- ☒ (D) *Mitigation of the impact of activities through funding of onshore infrastructure projects.*

The city of Diamondhead drains into Rotton Bayou, the Jordan River and tributaries to St. Louis Bay. These drainage projects will reduce erosion and improve water quality downstream which directly impacts natural resources in our bays and estuaries.



GOMESA PHASE II PROJECT FUNDING Request for Funding FY2023

PROJECT SUMMARY

12. Project Timetable/Milestones:

- Kome Drive
 - o Implementation Period: 1.5 Years
 - Study: Completed
 - Design and Permitting: Six Months
 - Construction: One Year
 - o Estimated Schedule: July 1, 2023 – December 30, 2024
- Anahalo
 - o Implementation Period: Two Years
 - Study: Six Months
 - Design and Permitting: Six Months
 - Construction: One Year
 - o Estimated Schedule: July 1, 2023 – June 30, 2025
- Fairway Drive
 - o Implementation Period: 1.5 Years
 - Study: Complete
 - Design: Six Months
 - Construction: One Year
 - o Estimated Schedule: July 1, 2023 – December 30, 2024

13. Project Timing



Short-term (3 year or less)



Deferred/long-term (3-5 years)



GOMESA PHASE II PROJECT FUNDING Request for Funding FY2023

APPLICATION SUMMARY

14. Current status of architectural/engineering plans & specifications for this project (if applicable): *Check one from each group.*

- Group 1:** ☐ Completed
☒ In Progress
☐ Ready to Bid
☒ Other (identify)

H&H Modeling underway

- Group 2:** ☐ Paid for
☐ Funds budgeted
☒ Funds not budgeted

15. In what way does this project meet the goals and objectives of the Department of Marine Resources, which includes enhancing, protecting and conserving the marine interest of Mississippi for present and future generations.?

Diamondhead Drainage, Flood Prevention & Water Quality Improvement Project Phase II in Hancock County is primarily a drainage infrastructure improvement project that meets the following Mississippi Department of Marine Resources criteria: activities for the purposes of coastal protection, including conservation, coastal restoration, hurricane protection and infrastructure directly affected by coastal wetland losses; and implementation of a federally-approved marine, coastal or comprehensive conservation management plan. The Diamondhead Drainage, Flood Prevention & Water Quality Improvement Project will provide significant drainage infrastructure improvements that will provide future hurricane protection and infrastructure directly affected by coastal wetland losses. The project consists of three subprojects that will provide drainage infrastructure improvements, wetland restoration and improve detention facilities for future watershed events. The proposed project is also implementing recommendations made from the Hancock County Watershed-Based Stormwater Assessment and Management Plan, a comprehensive conservation management plan for Hancock County.



GOMESA PHASE II PROJECT FUNDING Request for Funding FY2023

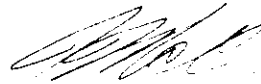
APPLICATION SUMMARY

16. Estimated number of years to completion: 2
17. Estimated Completion Date: June 2025
18. Prioritize if your agency has submitted multiple projects:

1

SIGNATURES

Requesting Agency Representative:


Signature

7/1/2022
Date

Attach a detailed project description, project schematics, drawings, or any regulatory permits as appropriate.

*Progress notes must be submitted quarterly on all projects funded by GOMESA.

**Before submitting application, please make sure to complete the Budget form on page 7.



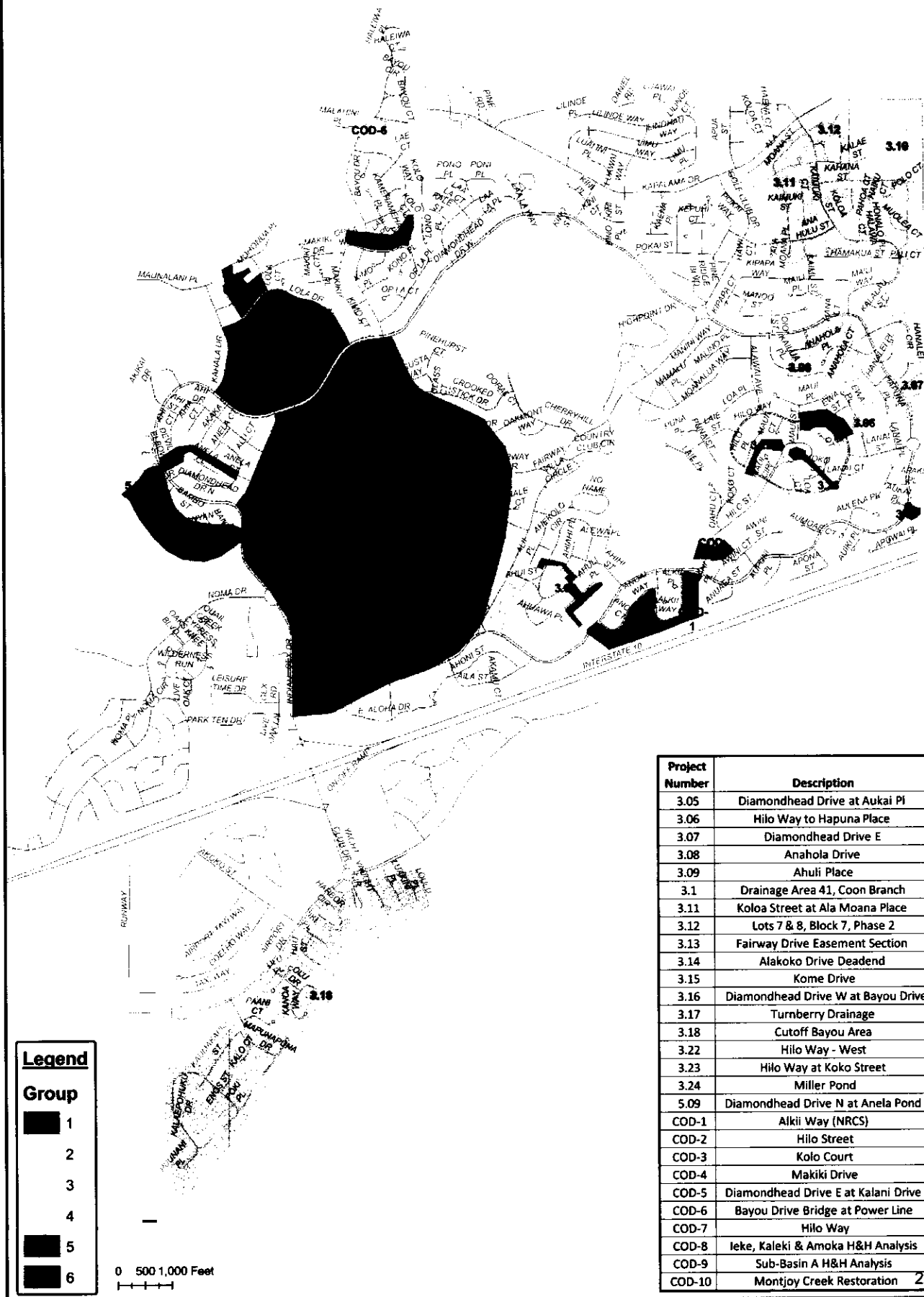
GOMESA PHASE II PROJECT FUNDING Request for Funding FY2023

BUDGET

Category	Total
Salaries, wages, Fringe	
Travel	
Architecture & Engineering	\$ 210,154.50
Legal	\$ 22,500.00
Consulting	\$ 61,000.00
Construction	\$ 1,401,030.00
Site Work	
Equipment	
Indirects	
Other	\$ 305,154.00
Total	\$ 1,999,838.50



DRAINAGE PROJECTS



Project Number	Description
3.05	Diamondhead Drive at Aukai PI
3.06	Hilo Way to Hapuna Place
3.07	Diamondhead Drive E
3.08	Anahola Drive
3.09	Ahuli Place
3.1	Drainage Area 41, Coon Branch
3.11	Koloa Street at Ala Moana Place
3.12	Lots 7 & 8, Block 7, Phase 2
3.13	Fairway Drive Easement Section
3.14	Alakoko Drive Deadend
3.15	Kome Drive
3.16	Diamondhead Drive W at Bayou Drive
3.17	Turnberry Drainage
3.18	Cutoff Bayou Area
3.22	Hilo Way - West
3.23	Hilo Way at Koko Street
3.24	Miller Pond
5.09	Diamondhead Drive N at Anela Pond
COD-1	Alkii Way (NRCS)
COD-2	Hilo Street
COD-3	Kolo Court
COD-4	Makiki Drive
COD-5	Diamondhead Drive E at Kalani Drive
COD-6	Bayou Drive Bridge at Power Line
COD-7	Hilo Way
COD-8	Ieke, Kaleki & Amoka H&H Analysis
COD-9	Sub-Basin A H&H Analysis
COD-10	Montjoy Creek Restoration

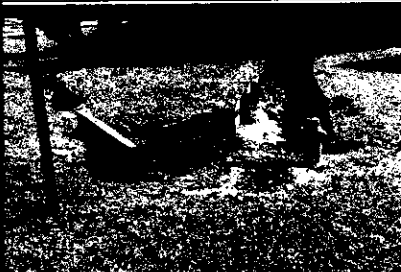
Project Number	3.08
Project Name	Anahola Draw
Location Description	Site is a natural draw in the East-central portion of Diamondhead located in the lower section of Watershed F as identified in the 2014 Master Drainage Plan map produced by Seymour Engineering. The structures under Diamondhead Drive East at this location drain the entirety of Watershed F. This portion of the city is 95% built out in addition to a significant portion of fairway within the watershed.
Project Coordinates	30°23'42"N, 89°20'40"W
HUC12	031700091303 – Rotten Bayou
Project Type	Detention, Drainage Infrastructure Improvements.
Number of residences or businesses benefitted	76-100
Anticipated Project Benefits	Improve Flow Characteristics Reduced possibility of flooding of roadways and homes in the area Improved water quality downstream Extended Runoff times
Implementation Period	Study: 6 months Design: 6 months Permits: Wetland 404, SWPPP Land Acquisition: Probable Implementation: 2 Yr
Flood Zone	No
Estimated Project Cost	\$777,187.00
Location Problems	 Reported problems are water over the road in a typical storm event. Site is the singular out fall for watershed with no detention facility. Previous methods for handling Stormwater are causing expedited runoff times. Open ditches have been eliminated in places where they are needed
Recommended Solution	Re-establishing open ditch sections where water is being forced onto the roadways. Incorporate LID drainage measures in the channel (step pool) that increase runoff times to mitigate immediate problems and aid in addressing those downstream. Build inline and offline detention within the watershed. Information from this project should be incorporated as contributing data for projects downstream along Diamondhead Drive East.

Opinion of Probable Cost

3.08 Anahola

Pay Item	Unit	Quantity	Unit Cost	Total Cost
Mobilization	LS	1	\$ 60,000.00	\$ 60,000.00
Clearing and Grubbing	LS	1	\$ 18,000.00	\$ 18,000.00
Remove Excess Sediment From Road Ditch	LF	600	\$ 18.00	\$ 10,800.00
Removal of Debris & Vegetation from Ditch	LF	150	\$ 24.00	\$ 3,600.00
Removal of Existing Asphalt	SY	200	\$ 24.00	\$ 4,800.00
Removal of Culvert (All Sizes)	LF	250	\$ 48.00	\$ 12,000.00
Removal of Drainage Structure	EA	2	\$ 3,000.00	\$ 6,000.00
Removal of Sediment from Culverts	EA	10	\$ 120.00	\$ 1,200.00
Unclassified Excavation	CY	300	\$ 18.00	\$ 5,400.00
Excess Excavation	CY	100	\$ 18.00	\$ 1,800.00
Crushed Limestone	CY	75	\$ 240.00	\$ 18,000.00
Select Fill	CY	50	\$ 36.00	\$ 1,800.00
Select Bedding Material	CY	25	\$ 36.00	\$ 900.00
Roadway Repair	EA	4	\$ 3,000.00	\$ 12,000.00
Headwalls	EA	6	\$ 1,800.00	\$ 10,800.00
Rip Rap	Tons	50	\$ 90.00	\$ 4,500.00
Filter Fabric	SY	25	\$ 6.00	\$ 150.00
Silt Fencing	LF	1000	\$ 6.00	\$ 6,000.00
Wattles	EA	10	\$ 240.00	\$ 2,400.00
Excelsior Blankets	SY	10	\$ 24.00	\$ 240.00
Seeding and Mulch	LS	1	\$ 6,000.00	\$ 6,000.00
Solid Sodding	SY	50	\$ 12.00	\$ 600.00
Traffic Control (includes Temp. Signage)	LS	1	\$ 12,000.00	\$ 12,000.00
Stormwater Detention Facility	LS	4	\$ 42,000.00	\$ 168,000.00
Culvert Replacement (Conceptual)	LS	1	\$150,000.00	\$ 150,000.00
Topographic Survey	LS	1	\$ 30,000.00	\$ 30,000.00
H & H Analysis - Drainage Study	LS	1	\$ 12,000.00	\$ 12,000.00
<i>Estimated Construction Costs</i>				\$ 558,990.00
<i>Engineering Costs (Design, Inspection, Construction Testing, etc..)</i>				\$ 83,848.50
<i>Right-of-Way/Easement Acquisition</i>				\$ 25,000.00
<i>Legal</i>				\$ 7,500.00
<i>Permitting</i>				\$ 18,000.00
<i>15% Contingency</i>				\$ 83,848.50

Total Estimated Project Cost \$ 777,187.00

Project Number	3.13
Project Name	Fairway Drive Easement Section
Location Description	This site is picking up drainage from Area 15 within Watershed A as designated on the Diamondhead Master Drainage plan map and serving as outfall for all of Area 16 within Watershed A. The two basins are about 70% built out with two fairways contributing to stormwater volumes. Area 15 is smaller and immediate to the area lying North of Fairway Drive. Area 16 is a larger area with steeper grades and two detention ponds on a fairway. Drainage through the area flows generally Westward exiting through the ditch sections on Fairway Drive then under Alakoko Drive into a constricted bulkhead section.
Project Coordinates	30°23'16"N, 89°22'12"W
HUC12	031700091303 –Rotten Bayou
Project Type	H&H Study, Install Detention, Enlarge Hydrologic Section
Number of residences or businesses benefitted	>100
Anticipated Project Benefits	Improve Flow Characteristics Reduced possibility of flooding of roadways and homes in the area Extend Runoff Times Improve Water Quality downstream
Implementation Period	Study: Complete Design: 12 months Permits: SWPPP, NWP 41 Land Acquisition: Probable Implementation: 2 Yr
Flood Zone	No
Estimated Project Cost	\$378,412.00
Location Problems	 Large portion of these watershed basins are impervious. Area 15, which is immediate to the outfall area includes a lot of hardscaped drainage section that decrease runoff times while increasing volumes. Ditch sections along Fairway drive and thru the easement are not large enough to accommodate the current volumes and there is potential for further development within the basins. Roadway pipes under Alakoko Drive are constricting flow but that may be preventing downstream flooding as the drainage way leaving the pipes appears to be near capacity and in imminent danger of failing structurally.
Recommended Solution	H & H study of the basins for determining full development volumes. Construct additional detention facilities, enlarge hydrologic section along Fairway Drive, remove, replace, install additional drainage structures under the roadway and remove/replace bulkheads with LID options.

Opinion of Probable Cost

3.12 Block 7 Phase 2

Pay Item	Unit	Quantity	Unit Cost	Total Cost
Mobilization	LS	1	\$ 24,000.00	\$ 24,000.00
Clearing and Grubbing	LS	1	\$ 6,000.00	\$ 6,000.00
Remove Excess Sediment From Road Ditch	LF	1600	\$ 18.00	\$ 28,800.00
Removal of Existing Asphalt	SY	50	\$ 24.00	\$ 1,200.00
Removal of Sediment from Culverts	EA	10	\$ 240.00	\$ 2,400.00
Crushed Limestone	CY	25	\$ 240.00	\$ 6,000.00
Select Fill	CY	25	\$ 36.00	\$ 900.00
Select Bedding Material	CY	25	\$ 36.00	\$ 900.00
Roadway Repair	EA	1	\$ 3,000.00	\$ 3,000.00
29x18 RCAP	LF	100	\$ 84.00	\$ 8,400.00
Headwalls	EA	2	\$ 1,800.00	\$ 3,600.00
Rip Rap	Tons	650	\$ 90.00	\$ 58,500.00
Filter Fabric	SY	1200	\$ 6.00	\$ 7,200.00
Silt Fencing	LF	250	\$ 6.00	\$ 1,500.00
Wattles	EA	2	\$ 240.00	\$ 480.00
Excelsior Blankets	SY	600	\$ 24.00	\$ 14,400.00
Seeding and Mulch	LS	1	\$ 6,000.00	\$ 6,000.00
Traffic Control (includes Temp. Signage)	LS	1	\$ 12,000.00	\$ 12,000.00
Stormwater Detention Facility	LS	1	\$ 30,000.00	\$ 30,000.00
Topographic Survey	LS	1	\$ 30,000.00	\$ 30,000.00
H & H Analysis - Drainage Study	LS	1	\$ 8,400.00	\$ 8,400.00
<i>Estimated Construction Costs</i>				\$ 253,680.00
<i>Engineering Costs (Design, Inspection, Construction Testing, etc..)</i>				\$ 38,052.00
<i>Right-of-Way/Easement Acquisition</i>				\$ 25,000.00
<i>Legal</i>				\$ 5,000.00
<i>Permitting</i>				\$ 18,000.00
<i>15% Contingency</i>				\$ 38,052.00

Total Estimated Project Cost \$ 377,784.00

Project Number	3.15
Project Name	Kome Drive
Location Description	Site is a low area where runoff is collected and transferred off the surface to underground infrastructure. Flow collected at the site is local, but feeds into to a sizeable arterial drainage ditch. The stream exiting the area drains 500 plus heavily developed hilly acres.
Project Coordinates	30°23'18"N, 89°22'37"W
HUC12	031700091303 –Rotten Bayou
Project Type	H&H Study, Remove Inlet control, Re-establish Hydrologic section, Erosion Control, Detention
Number of residences or businesses benefitted	51-75
Anticipated Project Benefits	Improve Flow Characteristics Reduced possibility of flooding of roadways and homes in the area
Implementation Period	Study: Complete Design: 12 months Permits: SWPPP, NWP 41 Land Acquisition: Probable Implementation: 2 Yr
Flood Zone	Yes
Estimated Project Cost	\$844,240.00
Location Problems	 Water has been reported on the roadway during storm events. Underground drainage system was not investigated to determine adequacy. Inlet control issues are likely the cause of back up, due to the local nature of the reported problems.
Recommended Solution	Topographic survey of the immediate area to determine the storm sewer infrastructure and where inlet control is constricting flow. Re-establish ditch sections where feasible and armor to prevent erosion. Replace inadequate infrastructure with properly sized channels and culverts. Investigate detention possibilities and alternate ways of removing surface drainage. Establish riparian buffers along all streams in the area.

Opinion of Probable Cost

3.15 Kome Drive

Pay Item	Unit	Quantity	Unit Cost	Total Cost
Mobilization	LS	1	\$ 60,000.00	\$ 60,000.00
Clearing and Grubbing	LS	2	\$ 18,000.00	\$ 36,000.00
Remove Excess Sediment From Road Ditch	LF	300	\$ 18.00	\$ 5,400.00
Removal of Debris & Vegetation from Ditch	LF	1200	\$ 18.00	\$ 21,600.00
Removal of Sediment from Culverts	EA	7	\$ 600.00	\$ 4,200.00
Modified Inlets	EA	4	\$ 3,000.00	\$ 12,000.00
Headwalls	EA	2	\$ 1,800.00	\$ 3,600.00
Gabion	Tons	900	\$ 90.00	\$ 81,000.00
Filter Fabric	SY	1200	\$ 6.00	\$ 7,200.00
Silt Fencing	LF	1000	\$ 6.00	\$ 6,000.00
Seeding and Mulch	LS	2	\$ 6,000.00	\$ 12,000.00
Solid Sodding	SY	200	\$ 12.00	\$ 2,400.00
Traffic Control (includes Temp. Signage)	LS	1	\$ 12,000.00	\$ 12,000.00
Stormwater Detention Facility	LS	8	\$ 30,000.00	\$ 240,000.00
Utility Relocation	LS	1	\$ 30,000.00	\$ 30,000.00
Topographic Survey	LS	1	\$ 42,000.00	\$ 42,000.00
H & H Analysis - Drainage Study	LS	1	\$ 14,400.00	\$ 14,400.00
<i>Estimated Construction Costs</i>				\$ 589,800.00
<i>Engineering Costs (Design, Inspection, Construction Testing, etc..)</i>				\$ 88,470.00
<i>Right-of-Way/Easement Acquisition</i>				\$ 45,000.00
<i>Legal</i>				\$ 7,500.00
<i>Permitting</i>				\$ 25,000.00
<i>15% Contingency</i>				\$ 88,470.00

Total Estimated Project Cost **\$844,240.00**

Attachment B



ENHANCE PROTECT CONSERVE

GOMESA PHASE II PROJECT FUNDING
Request for Funding FY2023

BUDGET

Category	Total
Salaries, wages, Fringe	
Travel	
Architecture & Engineering	\$ 210,154.50
Legal	\$ 22,500.00
Consulting	\$ 61,000.00
Construction	\$ 1,401,030.00
Site Work	
Equipment	
Indirects	
Other	\$ 305,154.00
Total	\$ 1,999,838.50



Attachment C

GOMESA Phase II Funding Project Selection Form

Applicant: Jon McCraw - City Manager
First Name *Last Name*

Business/Agency: City of Diamondhead

Address: 5000 Diamondhead Drive Circle - Diamondhead, MS 39525

Phone: 228-222-4626 Email: JMcCraw@diamondhead.ms.gov

Project Name: Diamondhead Drainage, Flood Prevention & Water Quality Improvement Project Phase II

Anticipated Budget: \$1,999,839.00 Anticipated Timeline: 7/1/2023 to 6/30/2026

Projects must meet at least one of the GOMESA criteria listed below. Please check all that apply.
Additional justification may be requested.

Column A

- ☒ Coastal protection of natural resources
- ☒ Mitigation of natural or marine resources
- ☐ Conservation management
- ☒ Onshore infrastructure projects resulting from coastal damage

Column B

- ☒ Coastal restoration and resiliency efforts
- ☐ Ecological restoration

PROPOSED PROJECT NARRATIVE

The City of Diamondhead is seeking GOMESA funding from the Mississippi Department of Marine Resources for the Diamondhead Drainage, Flood Prevention & Water Quality Improvement Project Phase II. Phase I of the project was funded during the 2022 cycle and the proposed projects identified in Phase II include one of the subprojects that were not funded in Phase I due to budgetary constraints. Additionally, two sub-projects have been identified as critical components to Diamondhead's drainage and water quality program specific to Watershed A (the largest watershed in the City of Diamondhead). The project consists of three sub-projects that will provide drainage infrastructure improvements, wetland restoration and improve detention facilities to reduce flooding, improve water quality and preserve downstream wetland and estuarine habitats. The sub-projects that are associated will improve water flow characteristics, reduce the future possibility of flooding of roadways and homes in the area, improve water quality downstream and extend runoff times. As part of a county-wide effort, Waggoner Engineering produced the Hancock County Watershed-Based Storm water Assessment and Management Plan in December 2019 that included a step-by-step plan for implementation. The plan created by Waggoner Engineering provided Hancock County a storm management plan for the long-term future of the County that was realistic and manageable. The county-wide effort by Waggoner Engineering resulted in a detailed project description for the three subprojects of the Diamondhead Drainage, Flood Prevention & Water Quality Improvement Project. The following pages contain the full project descriptions from the Waggoner Engineering produced plan for Kome Drive, Anahalo and Fairway Drive.

REQUIRED SIGNATURES

GOMESA Committee:

MDMR Committee Representative

Joe Swaggart
Signature
May 1, 2023 13:50 CDT

MDA Committee Representative

Laura Hipp
Signature
May 1, 2023 13:55 CDT

MDEQ Committee Representative

Chris Wells
Signature
May 1, 2023 18:15 CDT

Executive Director

Title Date

Deputy Executive Director

Title Date

Executive Director

Title Date