

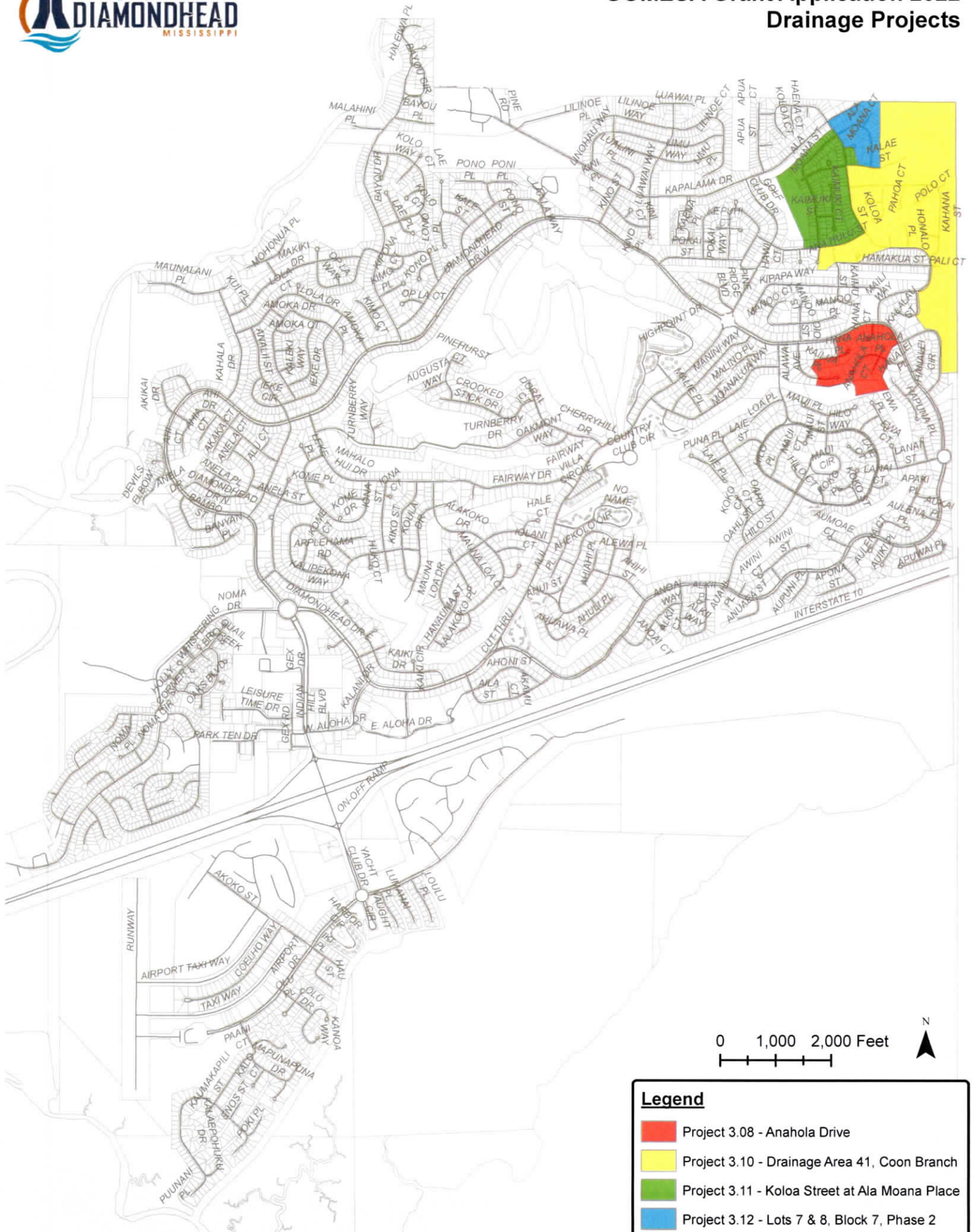
# EXHIBIT “A”

FY22 Legislative Session

## GOMESA


### Proposed Funded Projects

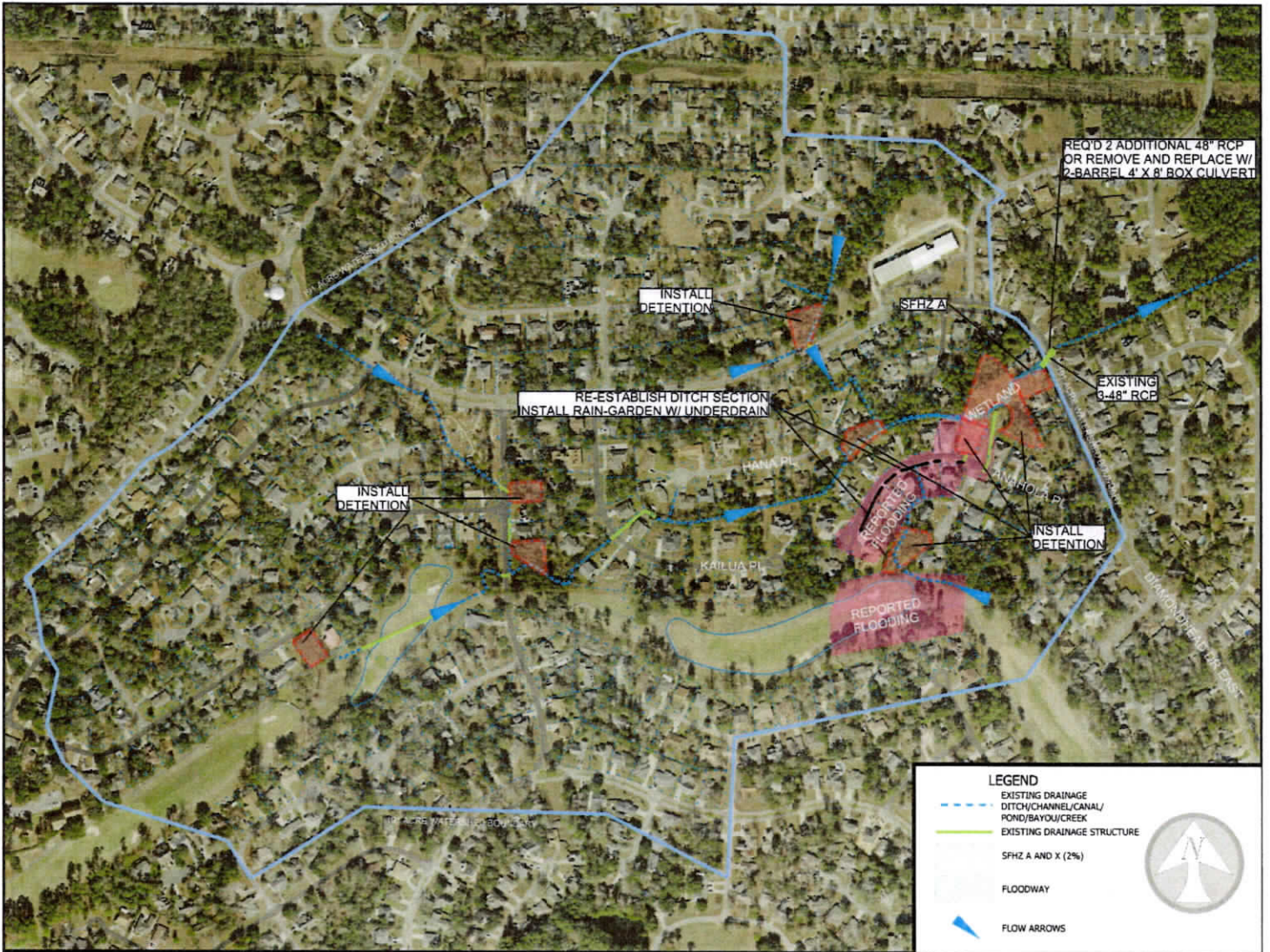
PROJECT	Description	Probable Cost
3.08	Anahola Drive	\$651,416
3.10	Drain Area 41 – Coon Branch	\$462,199
3.11	Koloa Street at Moana Place	\$422,921
3.12	Lots 7 & 8 Block 7, Phase 2	\$308,327
	TOTAL PROJECT	\$1,844,863



**Legend**

- Project 3.08 - Anahola Drive
- Project 3.10 - Drainage Area 41, Coon Branch
- Project 3.11 - Koloa Street at Ala Moana Place
- Project 3.12 - Lots 7 & 8, Block 7, Phase 2

<b>Project Number</b>	3.08	
<b>Project Name</b>	Anahola Draw	
<b>Location Description</b>	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.	
<b>Project Coordinates</b>	30°23'42"N, 89°20'40"W	
<b>HUC12</b>	031700091303 – Rotten Bayou	
<b>Project Type</b>	Detention, Drainage Infrastructure Improvements.	
<b>Number of residences or businesses benefitted</b>	76-100	
<b>Anticipated Project Benefits</b>	<p>Improve Flow Characteristics</p> <p>Reduced possibility of flooding of roadways and homes in the area</p> <p>Improved water quality downstream</p> <p>Extended Runoff times</p>	
<b>Implementation Period</b>	<p>Study: 6 months</p> <p>Design: 6 months</p> <p>Permits: Wetland 404, SWPPP</p> <p>Land Acquisition: Probable</p> <p>Implementation: 2 Yr</p>	
<b>Flood Zone</b>	No	
<b>Estimated Project Cost</b>	<b>\$651,416</b>	
<b>Location Problems</b>		<p>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</p>
<b>Recommended Solution</b>	<p>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.</p>	



**LEGEND**

- EXISTING DRAINAGE
- DITCH/CHANNEL/CANAL/ POND/BAYOU/CREEK
- EXISTING DRAINAGE STRUCTURE
- SFHZ A AND X (2%)
- FLOODWAY
- ▶ FLOW ARROWS



<b>PROJECT:</b> 0018081.000	<b>DATE:</b> AUG - 2019	<b>SCALE:</b> 1 IN = 475 FT	 <small>Jackie V&amp;A Inc. 1000 N. 10th St. Suite 100 Tulsa, OK 74104 www.waggonereng.com 1-800-681-3733</small>	<b>HANCOCK CO BOARD OF SUPERVISORS</b> COMPREHENSIVE WATERSHED BASED STORMWATER MANAGEMENT PROGRAM	<b>SHEET NAME:</b> ANAHOLA PLACE AND DIAMONDHEAD DRIVE EAST	<b>SHEET NUMBER:</b> 3.08
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## Hancock Co. Conceptual Drainage and Dredging Assessment

Opinion of Probable Cost

Oct 2019

### 3.08 Anahola

Pay Item	Unit	Quantity	Unit Cost	Total Cost
Mobilization	LS	1	\$ 50,000.00	\$ 50,000.00
Clearing and Grubbing	LS	1	\$ 15,000.00	\$ 15,000.00
Remove Excess Sediment From Road Ditch	LF	600	\$ 15.00	\$ 9,000.00
Removal of Debris & Vegetation from Ditch	LF	150	\$ 20.00	\$ 3,000.00
Removal of Existing Asphalt	SY	200	\$ 20.00	\$ 4,000.00
Removal of Culvert (All Sizes)	LF	250	\$ 40.00	\$ 10,000.00
Removal of Drainage Structure	EA	2	\$ 2,500.00	\$ 5,000.00
Removal of sediment from culverts	EA	10	\$ 100.00	\$ 1,000.00
Unclassified Excavation	CY	300	\$ 15.00	\$ 4,500.00
Excess Excavation	CY	100	\$ 15.00	\$ 1,500.00
Crushed Limestone	CY	75	\$ 200.00	\$ 15,000.00
Select Fill	CY	50	\$ 30.00	\$ 1,500.00
Select Bedding Material	CY	25	\$ 30.00	\$ 750.00
Roadway Repair	EA	4	\$ 2,500.00	\$ 10,000.00
Headwalls	EA	6	\$ 1,500.00	\$ 9,000.00
Rip Rap	Tons	50	\$ 75.00	\$ 3,750.00
Filter Fabric	SY	25	\$ 5.00	\$ 125.00
Silt Fencing	LF	1,000	\$ 5.00	\$ 5,000.00
Wattles	EA	10	\$ 200.00	\$ 2,000.00
Excelsior Blankets	SY	10	\$ 20.00	\$ 200.00
Seeding and Mulch	LS	1	\$ 5,000.00	\$ 5,000.00
Solid Sodding	SY	50	\$ 10.00	\$ 500.00
Traffic Control (includes Temp. Signage)	LS	1	\$ 10,000.00	\$ 10,000.00
Stormwater Detention Facility	LS	4	\$ 35,000.00	\$ 140,000.00
Culvert Replacement (Conceptual)	LS	1	\$ 125,000.00	\$ 125,000.00
Topographic Survey	LS	1	\$ 25,000.00	\$ 25,000.00
H & H Analysis - Drainage Study	LS	1	\$ 15,000.00	\$ 15,000.00
<i>Estimated Construction Costs</i>				\$ 470,825.00
<i>Engineering Costs (Design, Inspection, Construction Testing, etc.)</i>				\$ 70,623.75
<i>Right-of-Way/Easement Acquisition</i>				\$ 15,000.00
<i>Permitting</i>				\$ 10,000.00
<i>15% Contingency</i>				\$ 84,967.31
<b>Total Estimated Project Cost</b>				<b>\$ 651,416.06</b>


<b>Project Number</b>	3.10
<b>Project Name</b>	Drain Area 41 – Coon Branch
<b>Location Description</b>	Site is the outfall of Drainage area 41 (as identified in the 2014 Seymour Engineering Master Drainage Plan Map) into Coon Branch. Drainage area 41 is a draw that extends Westward from the confluence. A significant number of parcels in this watershed remain undeveloped. Recent efforts to increase capacity are evident in the form of enlarging the hydrologic section at Coon Branch.
<b>Project Coordinates</b>	30°24'9"N, 89°20'29"W
<b>HUC12</b>	031700091303 – Rotten Bayou
<b>Project Type</b>	Detention, Drainage Infrastructure Improvements, Planning/Ordinance.
<b>Number of residences or businesses benefitted</b>	>100
<b>Anticipated Project Benefits</b>	Improve Flow Characteristics Reduced possibility of flooding of roadways and homes in the area Improved water quality downstream Extended Runoff times
<b>Implementation Period</b>	Study: 6 months Design: 6 months Permits: SWPPP, NWP 41 Land Acquisition: Possible Implementation: 1 Yr
<b>Flood Zone</b>	Yes
<b>Estimated Project Cost</b>	\$462,199
<b>Location Problems</b>	 <p>Reported problems are water over the road in a typical storm event. Site is the singular out fall for watershed with no detention facility and likely to see an increase in impervious surface. Some siltation is present in ditches, and drainage infrastructure is currently inadequate, so increased development will cause more issues. Runoff from almost the entire Eastern portion of Diamondhead passes thru Coon Branch before this outfall causing it to overtop banks and backup flooding to this low lying area.</p>
<b>Recommended Solution</b>	Expand on Seymour study to investigate a build out expected runoff volume. Remove and replace roadway pipes to accommodate expected runoff. Acquire lots for detention implementation. Closely monitor building activity and strictly enforce BMP measures. Limit clearing activity.

Drain Area 41 - Coon Branch



**LEGEND**

- EXISTING DRAINAGE
- DITCH/CHANNEL/CANAL/ POND/BAYOU/CREEK
- EXISTING DRAINAGE STRUCTURE
- SPHZ A AND X (2%)
- FLOODWAY
- FLOW ARROWS



PROJECT: 0018081.000	DATE: AUG - 2019	SCALE: 1 IN = 300 FT	 WAGGONER <small>ENGINEERS ARCHITECTS INC.</small> <small>11000 N. STATE ST. SUITE 1000</small> <small>MEMPHIS, TN 38117</small> <small>www.waggoner.com</small> <small>1-901-961-3773</small>	<b>HANCOCK CO BOARD OF SUPERVISORS</b> COMPREHENSIVE WATERSHED BASED STORMWATER MANAGEMENT PROGRAM	SHEET NAME:  <b>COON BRANCH</b>	SHEET NUMBER:  <b>4   Page 3.10</b>
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## Hancock Co. Conceptual Drainage and Dredging Assessment


Opinion of Probable Cost

Oct 2019

### 3.10 Coon Branch

Pay Item	Unit	Quantity	Unit Cost	Total Cost
Mobilization	LS	1	\$ 35,000.00	\$ 35,000.00
Clearing and Grubbing	LS	1	\$ 15,000.00	\$ 15,000.00
Remove Excess Sediment From Road Ditch	LF	2,500	\$ 10.00	\$ 25,000.00
Removal of Existing Asphalt	SY	200	\$ 20.00	\$ 4,000.00
Removal of Culvert (All Sizes)	LF	100	\$ 40.00	\$ 4,000.00
Removal of Drainage Structure	EA	2	\$ 2,500.00	\$ 5,000.00
Removal of sediment from culverts	EA	2	\$ 400.00	\$ 800.00
Crushed Limestone	CY	25	\$ 200.00	\$ 5,000.00
Select Fill	CY	200	\$ 30.00	\$ 6,000.00
Select Bedding Material	CY	75	\$ 30.00	\$ 2,250.00
Roadway Repair	EA	7	\$ 2,500.00	\$ 17,500.00
Modified Inlets	EA	1	\$ 1,800.00	\$ 1,800.00
24" RCP	LF	300	\$ 70.00	\$ 21,000.00
36 X 23 RCAP	LF	100	\$ 175.00	\$ 17,500.00
Headwalls	EA	12	\$ 1,500.00	\$ 18,000.00
Rip Rap	Tons	200	\$ 75.00	\$ 15,000.00
Filter Fabric	SY	300	\$ 5.00	\$ 1,500.00
Silt Fencing	LF	500	\$ 5.00	\$ 2,500.00
Wattles	EA	2	\$ 200.00	\$ 400.00
Excelsior Blankets	SY	2,500	\$ 20.00	\$ 50,000.00
Seeding and Mulch	LS	1	\$ 5,000.00	\$ 5,000.00
Solid Sodding	SY	50	\$ 10.00	\$ 500.00
Traffic Control (includes Temp. Signage)	LS	1	\$ 5,000.00	\$ 5,000.00
Stormwater Detention Facility	LS	1	\$ 35,000.00	\$ 35,000.00
Topographic Survey	LS	1	\$ 35,000.00	\$ 35,000.00
<i>Estimated Construction Costs</i>				\$ 327,750.00
<i>Engineering Costs (Design, Inspection, Construction Testing, etc.)</i>				\$ 49,162.50
<i>Right-of-Way/Easement Acquisition</i>				\$ 15,000.00
<i>Permitting</i>				\$ 10,000.00
<i>15% Contingency</i>				\$ 60,286.88
<b>Total Estimated Project Cost</b>				<b>\$ 462,199.38</b>



<b>Project Number</b>	3.11
<b>Project Name</b>	Koloa Street at Ala Moana Place
<b>Location Description</b>	Site is at the intersection of Koloa Street and Ala Moana Place. Ala Moana Place runs East and West along the toe of the hill section to the South. Runoff travels Northward along Koloa Street which has a significant crossing Ala Moana into a section with less grade.
<b>Project Coordinates</b>	30°24'12"N, 89°20'51"W
<b>HUC12</b>	031700091303 – Rotten Bayou
<b>Project Type</b>	Drainage Infrastructure Improvements
<b>Number of residences or businesses benefitted</b>	76-100
<b>Anticipated Project Benefits</b>	Improve Flow Characteristics Reduced possibility of flooding of roadways and homes in the area
<b>Implementation Period</b>	Study: None Design: 6 months Permits: SWPPP Land Acquisition: No Implementation: 1 Yr
<b>Flood Zone</b>	No
<b>Estimated Project Cost</b>	<b>\$422,921</b>
<b>Location Problems</b>	 <p>Reported problems are water over the road in a typical storm event. Runoff travels with good velocity down the steep grades of Koloa where it encounters the flatter grades at this intersection. The pipe at the intersection is out of alignment with flow down Koloa. Siltation has occurred downstream of the pipe causing water to pond and cover the roadway. The existing pipe has minimal cover as it exists, so re-establishing hydrologic section downstream of it is necessary.</p>
<b>Recommended Solution</b>	Topographic survey of the area for redesign and replacement of roadway pipe.


Koloa Street at Ala Moana Place



**LEGEND**

- EXISTING DRAINAGE DITCH/CHANNEL/CANAL/ POND/BAYOU/CREEK
- EXISTING DRAINAGE STRUCTURE
- SRH2 A AND X (2%)
- FLOODWAY
- ▶ FLOW ARROWS



<p>PROJECT: 0018081.000</p>	<p>DATE: AUG - 2019</p>	<p>SCALE: 1 IN = 300 FT</p>	 <p>WAGGONER 1-800-684-2733</p>	<p>HANCOCK CO BOARD OF SUPERVISORS COMPREHENSIVE WATERSHED BASED STORMWATER MANAGEMENT PROGRAM</p>	<p>SHEET NAME: KALAE COURT</p>	<p>SHEET NUMBER: 3.11</p>
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## Hancock Co. Conceptual Drainage and Dredging Assessment

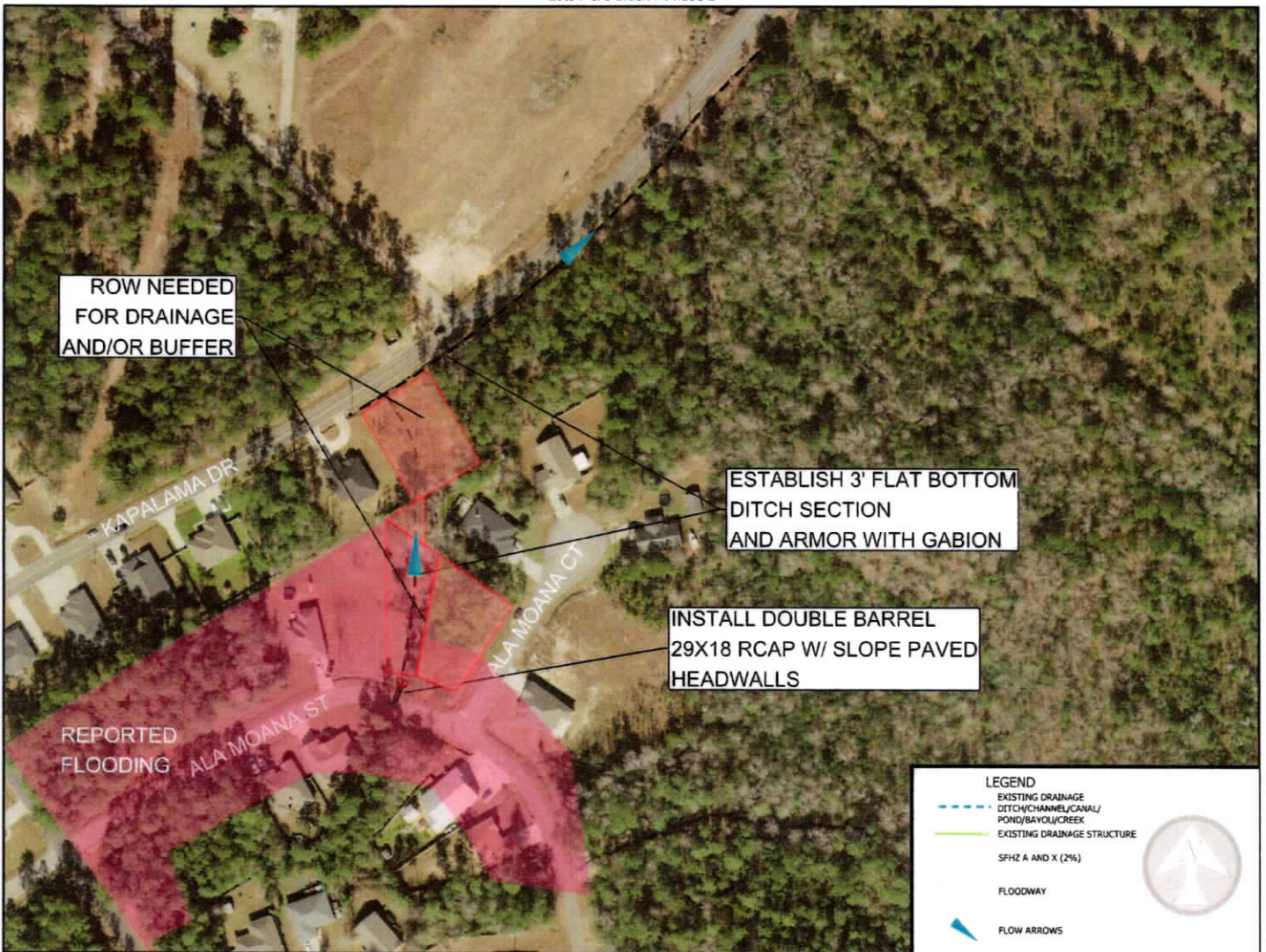
Opinion of Probable Cost

Oct 2019

### 3.11 Kalae

Pay Item	Unit	Quantity	Unit Cost	Total Cost
Mobilization	LS	1	\$ 30,000.00	\$ 30,000.00
Clearing and Grubbing	LS	1	\$ 15,000.00	\$ 15,000.00
Remove Excess Sediment From Road Ditch	LF	1,000	\$ 15.00	\$ 15,000.00
Removal of Existing Asphalt	SY	200	\$ 20.00	\$ 4,000.00
Removal of Culvert (All Sizes)	LF	300	\$ 40.00	\$ 12,000.00
Abandon Culvert in place (flowable fill)	LF	50	\$ 10.00	\$ 500.00
Removal of sediment from culverts	EA	25	\$ 200.00	\$ 5,000.00
Crushed Limestone	CY	50	\$ 200.00	\$ 10,000.00
Select Fill	CY	200	\$ 30.00	\$ 6,000.00
Select Bedding Material	CY	75	\$ 30.00	\$ 2,250.00
Roadway Repair	EA	4	\$ 2,500.00	\$ 10,000.00
Modified Inlets	EA	1	\$ 1,800.00	\$ 1,800.00
29x18 RCAP	LF	150	\$ 70.00	\$ 10,500.00
36 X 23 RCAP	LF	100	\$ 125.00	\$ 12,500.00
Headwalls	EA	10	\$ 1,500.00	\$ 15,000.00
Rip Rap	Tons	75	\$ 75.00	\$ 5,625.00
Filter Fabric	SY	125	\$ 5.00	\$ 625.00
Silt Fencing	LF	250	\$ 5.00	\$ 1,250.00
Wattles	EA	5	\$ 200.00	\$ 1,000.00
Seeding and Mulch	LS	1	\$ 5,000.00	\$ 5,000.00
Solid Sodding	SY	500	\$ 10.00	\$ 5,000.00
Traffic Control (includes Temp. Signage)	LS	1	\$ 5,000.00	\$ 5,000.00
Stormwater Detention Facility	LS	3	\$ 25,000.00	\$ 75,000.00
Topographic Survey	LS	1	\$ 35,000.00	\$ 35,000.00
H & H Analysis - Drainage Study	LS	1	\$ 15,000.00	\$ 15,000.00
			<i>Estimated Construction Costs</i>	\$ 298,050.00
			<i>Engineering Costs (Design, Inspection, Construction Testing, etc.)</i>	\$ 44,707.50
			<i>Right-of-Way/Easement Acquisition</i>	\$ 15,000.00
			<i>Permitting</i>	\$ 10,000.00
			<i>15% Contingency</i>	\$ 55,163.63
			<b>Total Estimated Project Cost</b>	<b>\$ 422,921.13</b>

<b>Project Number</b>	3.12
<b>Project Name</b>	Lots 7 & 8 Block 7 Phase 2, Diamondhead
<b>Location Description</b>	These lots appear to have been artificially filled in an old drainage way in an area with very little grade effectively making the lots a basin with no outlet. Runoff enters the lots from a westward direction along Ala Moana Street.. Hydric soils and vegetation indicate wetland characteristics on the site.
<b>Project Coordinates</b>	30°24'21"N, 89°20'49"W
<b>HUC12</b>	031700091303 – Rotten Bayou
<b>Project Type</b>	Land acquisition, Wetland restoration, LID BMP construction
<b>Number of residences or businesses benefitted</b>	51-75
<b>Anticipated Project Benefits</b>	Improve Flow Characteristics Reduced possibility of flooding of roadways and homes in the area Extend Runoff Times Improve Water Quality downstream
<b>Implementation Period</b>	Study: 6 months Design: 6 months Permits: SWPPP, NWP 41 Land Acquisition: Probable Implementation: 1 Yr
<b>Flood Zone</b>	No
<b>Estimated Project Cost</b>	<b>\$308,327</b>
<b>Location Problems</b>	 <p>The site is obviously holding water as an attempt to force drainage into a nearby ditch was not properly engineered. Filling the lots to an elevation that will bring them out of the soggy conditions will almost certainly flood surrounding lots. This portion of the city has a lot of developable property that will exacerbate the issues once construction increases.</p>
<b>Recommended Solution</b>	Purchase the lots or enter agreement with owner in perpetuity to re-establish the natural drainage course and install an extended dry detention basin to restore the wetland characteristics, as well as, serve as detention for future development in the area.



<p>PROJECT: 0018081.000</p>	<p>DATE: AUG - 2019</p>	<p>SCALE: 1 IN = 150 FT</p>	<p><b>WAGGONER</b>  <small>ANITA, MS - MEMBER, ISA-C, Spd. 05          WUST, LA - Non-Comp., L.P.          www.waggonereng.com          P. 800.991.2713</small></p>	<p>HANCOCK CO BOARD OF SUPERVISORS          COMPREHENSIVE WATERSHED BASED STORMWATER          MANAGEMENT PROGRAM</p>	<p>SHEET NAME: BLOCK 7 PHASE 2 6   Page</p>	<p>SHEET NUMBER: 3.12</p>
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## Hancock Co. Conceptual Drainage and Dredging Assessment

Opinion of Probable Cost

Oct 2019

### 3.12 Block 7 Phase 2

Pay Item	Unit	Quantity	Unit Cost	Total Cost
Mobilization	LS	1	\$ 20,000.00	\$ 20,000.00
Clearing and Grubbing	LS	1	\$ 5,000.00	\$ 5,000.00
Remove Excess Sediment From Road Ditch	LF	1,600	\$ 15.00	\$ 24,000.00
Removal of Existing Asphalt	SY	50	\$ 20.00	\$ 1,000.00
Removal of sediment from culverts	EA	10	\$ 200.00	\$ 2,000.00
Crushed Limestone	CY	25	\$ 200.00	\$ 5,000.00
Select Fill	CY	25	\$ 30.00	\$ 750.00
Select Bedding Material	CY	25	\$ 30.00	\$ 750.00
Roadway Repair	EA	1	\$ 2,500.00	\$ 2,500.00
29x18 RCAP	LF	100	\$ 70.00	\$ 7,000.00
Headwalls	EA	2	\$ 1,500.00	\$ 3,000.00
Rip Rap	Tons	650	\$ 75.00	\$ 48,750.00
Filter Fabric	SY	1,200	\$ 5.00	\$ 6,000.00
Silt Fencing	LF	250	\$ 5.00	\$ 1,250.00
Wattles	EA	2	\$ 200.00	\$ 400.00
Excelsior Blankets	SY	600	\$ 20.00	\$ 12,000.00
Seeding and Mulch	LS	1	\$ 5,000.00	\$ 5,000.00
Traffic Control (includes Temp. Signage)	LS	1	\$ 10,000.00	\$ 10,000.00
Stormwater Detention Facility	LS	1	\$ 25,000.00	\$ 25,000.00
Topographic Survey	LS	1	\$ 25,000.00	\$ 25,000.00
H & H Analysis - Drainage Study	LS	1	\$ 7,000.00	\$ 7,000.00
<i>Estimated Construction Costs</i>				\$ 211,400.00
<i>Engineering Costs (Design, Inspection, Construction Testing, etc.)</i>				\$ 31,710.00
<i>Right-of-Way/Easement Acquisition</i>				\$ 15,000.00
<i>Permitting</i>				\$ 10,000.00
<i>15% Contingency</i>				\$ 40,216.50
<b>Total Estimated Project Cost</b>				<b>\$ 308,326.50</b>