PUBLIC WORKS DEPARTMENT

Council Presentation OCTOBER 17, 2022

MILES B. BINGHAM, PE

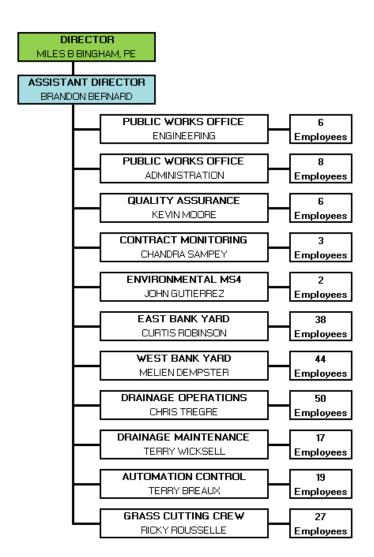


PUBLIC WORKS

AGENDA:

- > Public Works Organization
- > Pump Stations Maintenance and Operation
- > Road Crews Our Face in the Community
- > Heavy Equipment Crews Major Accomplishments
- Grass Crews Keeping our Parish Mowed
- > QA Department Assuring Quality Work on Parish Projects
- > Engineering Moving Forward the Parish into the Future
- ➤ MS4 Keeping the Parish Clean
- > Projects Underway and Complete
- > Projects What is Next

PUBLIC WORKS



TOTAL POSITIONS 222

• CURRENT STAFF 170

• OPEN POSITIONS 52

• Drainage Oper. 14 Openings

Grass Cutting 10 Openings

East Bank Yard 7 Openings

West Bank Yard 7 Openings

Automation 6 Openings

Drainage Maint. 4 Openings

PW Office 4 Openings

PUMP STATIONS

PUMP STATIONS EAST BANK

≻Total Stations 24

- **≻**Stations on SCADA 14
- **≻**East Bank 2,605,320 GPM

	EAST BANK								
	STATION NAME	PUMP SIZE							
	STATION NAME	Pump #1	Pump #2	Pump #3	Pump #4	Pump #5	Pump #6	GPM	
1	BAYOU TREPAGNIER	60"	60"	60"	30"			359,100	
2	CROSS BAYOU	60"	60"	60"	60"	60"	30"	587,000	
3	DESTREHAN 1	48"	48"	48"	48"	54"	54"	340,000	
4	DESTREHAN 2	48"	48"	48"	72"	72"		418,000	
5	DIANNE	24"	24"	30"				63,000	
6	ENGINEER'S CANAL	26"	26"	26"				84,000	
7	FAIRFIELD	18"						11,000	
8	4TH STREET	20"	24"					33,000	
9	MONTZ PRESCOTT CANAL	30"	30"	30"				76,000	
10	NEW SARPY	36"	36"	36"				102,000	
11	OAK STREET	20"	24"					33,000	
12	OAKLAND	18"	24"					30,000	
13	SCHEXNAYDRE	36"	48"	36"				123,000	
14	WALKER CANAL	36"	12"	36"				74,000	
15	ALMEDIA ROAD	24"	24"	24"				54,000	
16	ALMEDIA STRUCTURE	30"						26,000	
17	BANKONE	24"						24,000	
18	FOX LANE	24"						18,000	
19	HARDING STREET	6"						1,400	
20	RIVER BEND #1	24"	24"					36,000	
21	RIVER BEND #2	24"	24"					36,000	
22	TURTLE POND HYDRAULIC	24"	12"					24,500	
23	WALKER STRUCTURE	30"	30"					52,000	
24	WET LAND WATCHERS	3"	3"					320	

PUMP STATIONS WEST BANK

- **≻Total Stations 34**
- **≻Stations on SCADA 17**
- **>** West Bank 3,019,755 GPM

			W	/EST E	BANK					
	PUMP SIZE							TOTAL		
	STATION NAME	Pump #1	Pump #2	Pump #3	Pump #4	Pump #5	Pump #6	Pump #7	Pump #8	GPM
1	AMA SELLERS	42"	42"							92,000
2	CORTEZ	24"	24"							38,000
3	DAVIS / BARTON	42"	20"	42"						100,980
4	DAVIS POND	48"	48"	48"						165,000
5	EIGHTY ARPENT	48"	48"	42"	42"	48"	48"	48"	48"	422,000
6	ELLINGTON	42"	42"	42"	42"					144,800
7	GEORGE COUSINS	48"	48"	42"	42"	48"	48"	48"	48"	418,000
8	HACKBERRY	16"	16"							16,000
9	KELLOGG	42"	42"	42"						155,325
10	LAKEWOOD SOUTH	36"	36"							68,000
11	MAGNOLIA RIDGE	42"	42"	42"	42"					152,000
12	OLD KELLOGG ELECTRIC	12"	8"							7,000
13	PARADIS	30"	20"	24"						63,000
14	SUNSET	60"	60"	60"	30"	30"	36"			384,750
15	TIBBY	42"	42"							92,000
16	WILLOWDALE	54"	54"	54"						235,500
17	WILLOWRIDGE	48"	48"	48"						134,000
18	3127/BARRIERE	24"								24.000
	BARTON SUMP	12"								4,000
	BAYOU ROAD	3"	3"							320
	BOUTTE	24"	24"							53,000
	CORONADO #1	18"	18"							28,000
23	CORONADO #2	18"	18"							28,000
24	DAVIS SUMP	12"								4,000
	ERIC SUMP	3"	1.5"							160
	HAHNVILLE HIGH SCHOOL	16"								8,000
	LAGATTUTA	20"	18"	8"						24.000
	LAKEWOOD NORTH	8"	8"	30"						36,800
	LAKEWOOD SCHOOL	16"	_							8,000
	LOW STREET HYDRAULIC	24"								24.000
31	MIMOSA	24"	24"							27,800
	NOLA STREET	30"	12"							27,000
	RANDOLPH	36"	12							34,000
34	TUNNEL SUMP	3"	3"							320
34	TOWNEL SOWIF									320

PUMP STATIONS OPERATION AND MAINTENANCE

New Organization

- Pump Operations Group
 Responsible for operating pump
 stations during storms and
 performing periodic operational
 checks to assure pump stations
 are ready when needed.
- Pump Maintenance Group
 Responsible for maintaining
 pump stations by performing
 routine maintenance and
 investigating and repairing
 electrical and mechanical failures.
- Operational Technology Group
 Responsible for Telemetry and
 SCADA (Supervisory Control and
 Data Acquisition) that operates the
 Parish pump systems remotely
 throughout Public Works and
 Wastewater. This Group is also
 responsible for the technical
 support of Asset Works.

PUMP OPERATIONS



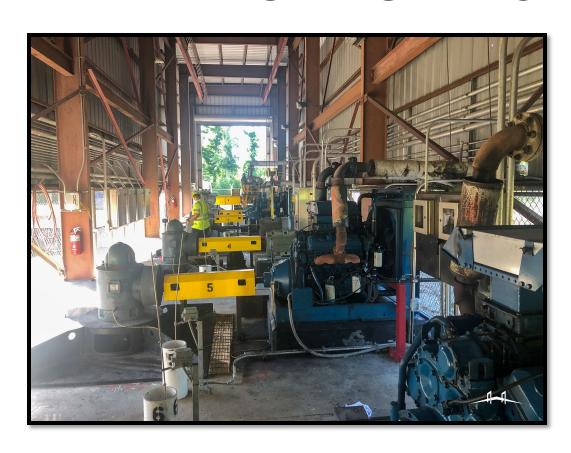








PUMP STATION MAINTENANCE



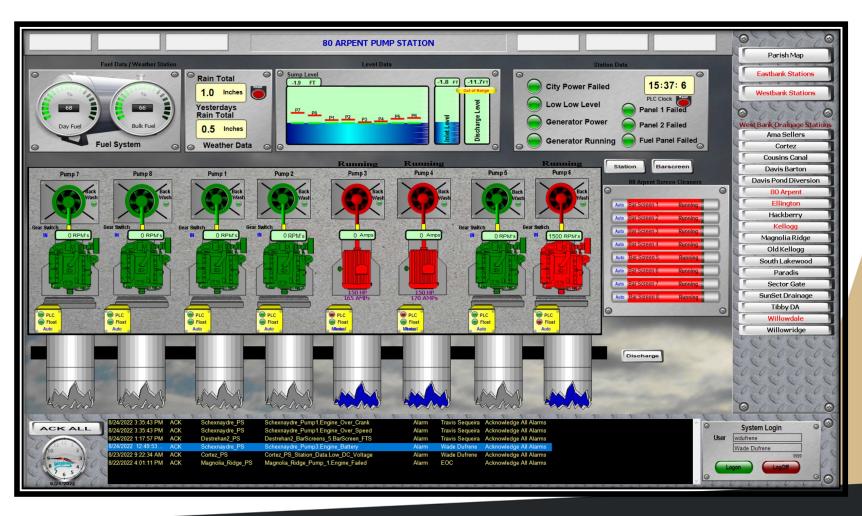


80 Arpent Pump Station

PUMP STATIONS TELEMETRY MAP



PUMP STATIONS STATION OPERATIONS WINDOW



ROAD CREWS

ROAD CREWS CULVERT TRUCK







ROAD CREWS TRASH TRUCK

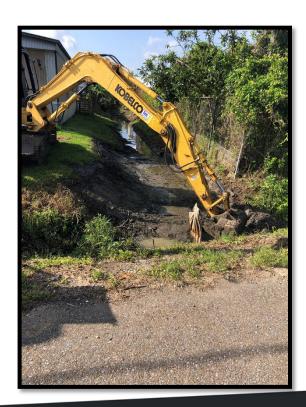




ROAD CREWS DITCH CLEARING AND RESHAPING









ROAD CREWS DITCH CLEANING







ROAD CREWS LAYING PIPE







ROAD CREWS ASPHALT PATCHING









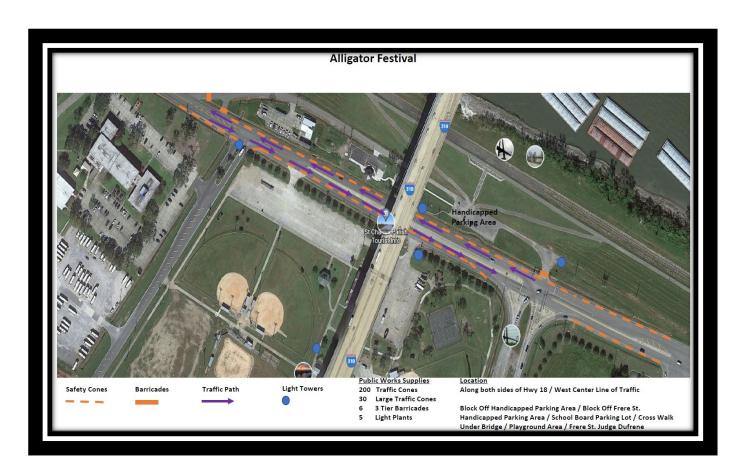


ROAD CREWS TRIMMING TREES





ROAD CREWS SPECIAL EVENTS





ROAD CREWS WORK ORDERS

2022 WORK ORDERS						
DISTRICT	OPENED	CLOSED	REMAINING			
Ama	21	11	10			
Bayou Gauche	25	18	7			
Boutte	38	22	16			
Des Allemands	22	13	9			
Destrehan	127	76	51			
Hahnville	52	32	20			
Killona	16	14	2			
Luling	193	78	115			
Montz	29	17	12			
New Sarpy	34	22	12			
Norco	82	38	44			
Paradis	19	14	5			
St Rose	43	18	25			
Taft	1	1	0			
TOTALS	702	374	328			

WORK ORDERS				
CLOSED IN 2022				
District	Count			
	11			
1	114			
2	94			
3	81			
4	87			
5	51			
6	119			
7	82			
	639			
	035			

HEAVY EQUIPMENT CREWS

WETLAND WATCHERS UNDERPASS





WETLAND WATCHERS UNDERPASS





MICHAEL DRIVE CULVERT REPLACEMENT



Before Construction



During Construction

Pipe Installation



MICHAEL DRIVE CULVERT REPLACEMENT





CATHY DRIVE TO COTTAGE DRIVE BOX CULVERT INSTALLATION





CATHY DRIVE TO COTTAGE DRIVE BOX CULVERT INSTALLATION









CLEANING CANALS MARSH BUGGY





CLEANING CANALS MARSH BUGGY



BEFORE CLEANING



CLEANING UNDERWAY

AFTER CLEANING

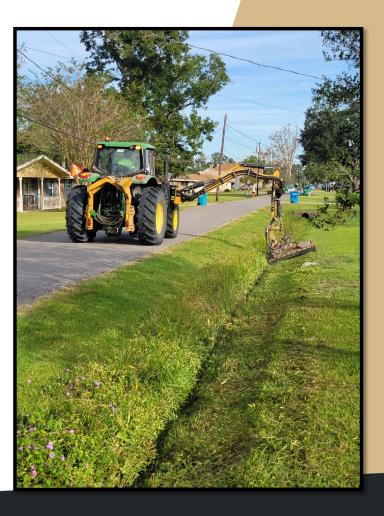


GRASS CUTTING

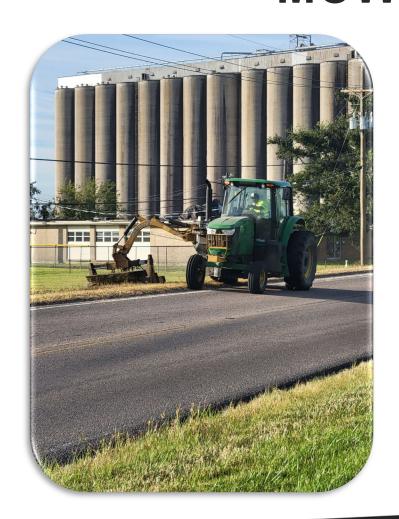
GRASS CUTTING MOWING DITCHES







GRASS CUTTING MOWING ROADS AND ROW







GRASS CUTTING MAKING IT NEAT AND TIDY







QADEPARTMENT

QUALITY ASSURANCE WHAT WE DO

- ➤ Investigate Council Requests and create Work Orders that are entered into AssetWorks. Upon completion, the Council Office is advised that the Council Request is completed.
- ➤ Investigate issues and develop rough preliminary plans that are entered into AssetWorks as Work Orders. These issues include Resident's Complaints, Administration Requests, etc.
- > Respond to resident's complaints and investigate their concerns.
- ➤ Monitor AssetWorks to see when Work Orders and/or projects are completed so that QAs can inspect them and close them out in the AssetWorks system.
- > Assist the Foreman with entering data into AssetWorks.
- > Assist the Superintendents in assigning Work Orders to Foreman.
- > Substitute for Superintendents at the East and West Bank Yard.

QUALITY ASSURANCE WHAT WE DO

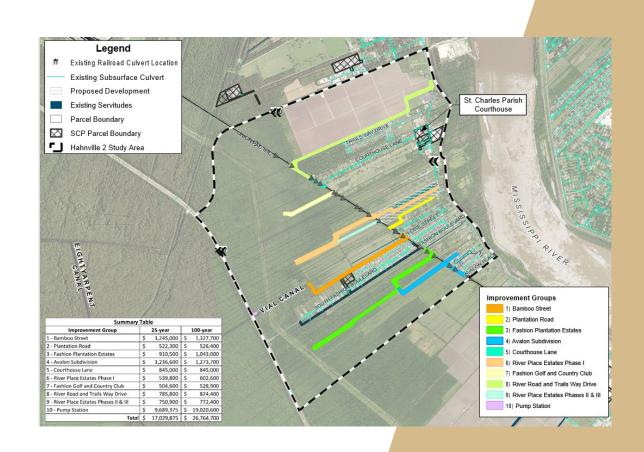
- > Visit the East and West Bank Yards weekly to participate in their morning meetings.
- ➤ QAs are assigned Construction Projects and/or Developments to monitor and prepare daily reports. They perform a critical role in coordination between contractors and the Parish; assuring public safety near job sites; and making sure Pump Stations are operational while work is being done at the Station.
- ➤ Visit project sites and take pictures, which are given to the Public Information for Social Media.
- > Produce reports that help manage workload and identify areas of concern.
- ➤ When bad weather is coming, QAs assist with checking trouble spots to assure that they are ready for the storm.
- > QAs review servitude documents to assure that work is being done legally and within our servitude.

ENGINEERING

MASTER DRAINAGE PLAN WEST BANK

WEST BANK

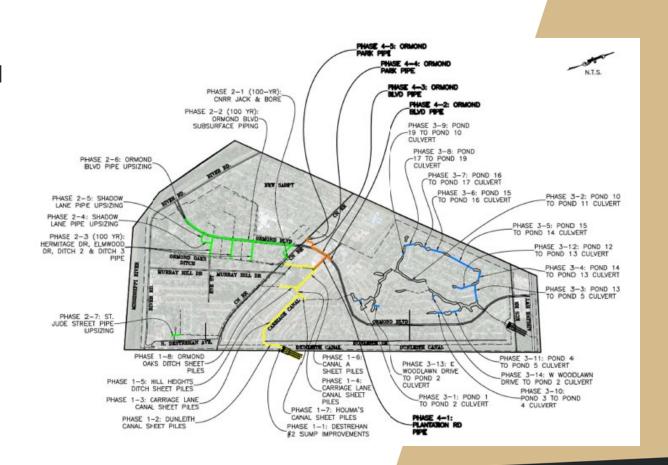
- Ama-Sellers, Hahnville 1 and Hahnville 2 Watersheds Complete.
- Luling, Luling I-310 and Mimosa/Willowdale Watershed in Progress.
- 2 Projects from the Ama-Sellers Report are being designed.
- 1 Project from the Hahnville 1 Report is being designed.
- 1 Project from the Hahnville 2 Report is being designed.



MASTER DRAINAGE PLAN EAST BANK

EAST BANK

- Montz, Norco, New Sarpy and Ormond Watersheds Complete.
- St. Rose, Dianne Place, Bar None, Turtle Pond and Almedia Watersheds in Progress.
- 3 Projects from the Montz Report are being designed.
- 3 Projects from the Norco Report are being designed.
- 2 Projects from the New Sarpy Report are being designed
- 8 Projects from the Ormond Report are being designed.



DRAINAGE PROJECTS CURRENTLY IN DESIGN

 Proposal Phase 	4
 Survey Phase 	4
 Preliminary Design Phase 	19
 Final Design Phase 	12
• Bidding	1
• On Hold	5
TOTAL PROJECTS	43

ROADWAY PROJECTS CURRENTLY IN DESIGN

 Proposal Phase 	1
 Survey Phase 	0
 Preliminary Design Phase 	5
 Final Design Phase 	1
• Bidding	1
• On Hold	8
TOTAL PROJECTS	16

ENGINEERING WHAT WE DO

Besides Overseeing All Public Works Capital Projects, We:	
☐ Review and Approve Utility Permit Applications	
☐ Review Subdivision Plans and Manage Construction for Parish Accept	ance
☐ Review and Approve Commercial Developments	
☐ Assist other Parish Departments with Engineering Projects	
☐ Review and Approve Driveway and Subsurface Permits	
☐ Manage and Track Environmental Permits for Canal Cleaning	
☐ Review and Approve Traffic and Drainage Impact Analyses	
□ Assess Sewer Impact Fees.	
□ Perform Field Engineering Services as Needed	

MS4 ENVIRONMENTAL

MS4 KEEPING THE PARISH CLEAN



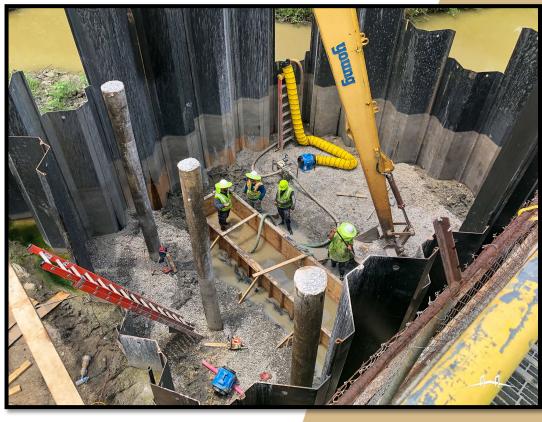




PROJECTS UNDER CONSTRUCTION

AMA PUMP STATION UPGRADE

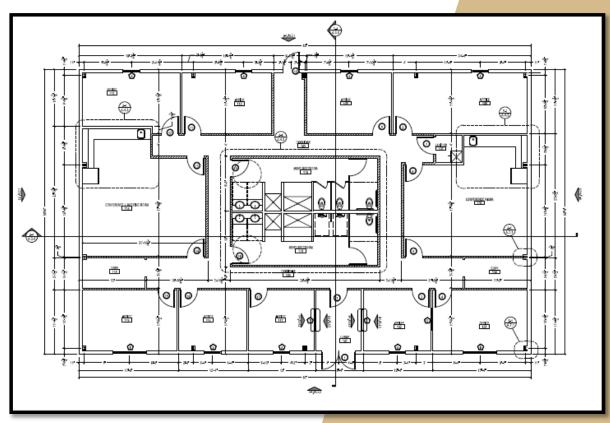




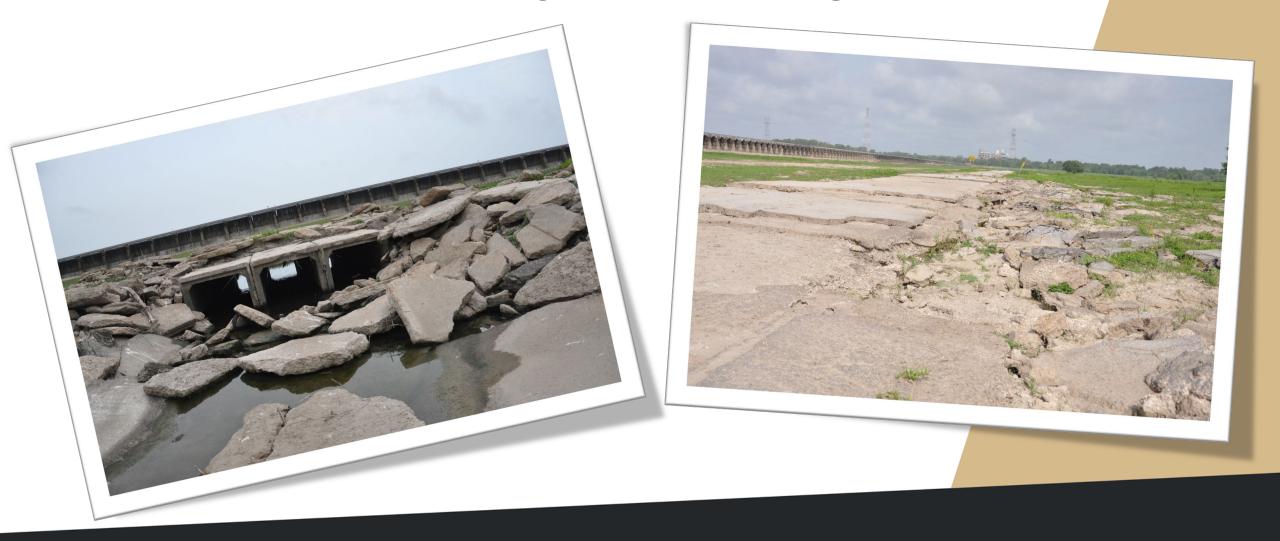
COMPLETED PROJECTS

NEW WEST BANK YARD BUILDING



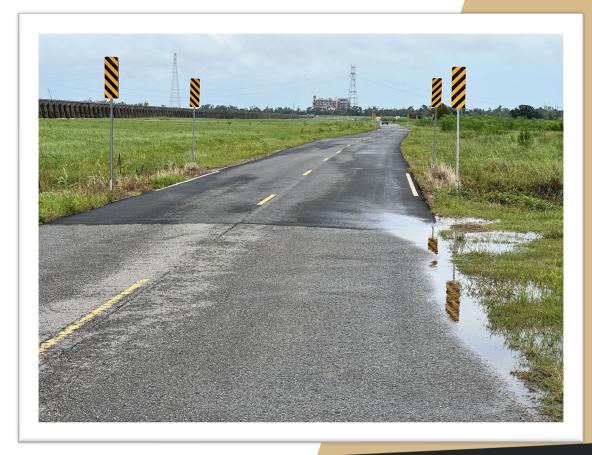


SPILLWAY ROAD BEFORE REPAIRS



SPILLWAY ROAD AFTER REPAIRS





5TH STREET DRAINAGE











DES ALLEMANDS BULKHEAD AFTER HURRICANE IDA



DES ALLEMANDS BULKHEAD TEMPORARY REPAIR







ASPHALT PAVEMENT MANAGEMENT TASK ORDER #1

Street Name	District	Boundary
ASH STREET (2)	4	PINE ST. (4) - ACORN DR.
BAYOU ESTATES DRIVE	4	BAYOU GAUCHE RD (LA 306) - GRAND BAYOU DR.
MARINO DRIVE (1)	6	RIVER RD. (E. BANK) - THIRD ST. (2)
MARK DRIVE	4	BAYOU GAUCHE RD (LA 306) - SHAMROCK DR. (1)
MARYLAND DRIVE	7	US 90 - DEAD END
MATTHEW STREET	4	BAYOU GAUCHE RD (LA 306) - SECOND ST. (2)
MELONIE STREET	4	US 90 - DEAD END
MICHAEL DRIVE (3)	4	BAYOU GAUCHE RD (LA 306) - DEAD END
MONSANTO AVENUE (1)	7	US 90 - PRIMROSE DR. (2)
MONSANTO AVENUE (2)	7	PRIMROSE DR. (2) - DEAD END
NORCO STREET	6	THIRD ST. (4) - FIFTH ST. (1)
PLEASANT VALLEY DRIVE (1)	4	BAYOU GAUCHE RD (LA 306) - CONCRETE
SOUTH KINLER STREET (1)	1	TINNEY ST. (1) - DEAD END
WEST B STREET (1)	6	RIVER RD. (E. BANK) - THIRD ST. (2)
WOODLAND DRIVE	4	RIVER RIDGE DR. (1) - DEAD END



ASH STREET

ASPHALT PAVEMENT MANAGEMENT TASK ORDER #2

Street Name	District	Boundary
TINNEY ST (1)	1	PAUL MAILLARD (LA52) - CONCRETE
ALLEN ST	2	RIVER ROAD (LA18) – DEAD END
BECK ST	2	RIVER ROAD (LA18) – DEAD END
GRIFFEN ST	2	RIVER ROAD (LA18) – DEAD END
KENNEDY ST	2	RIVER ROAD (LA18) – DEAD END
JOHNSON ST (1)	2	RIVER ROAD (LA18) – DEAD END
ST. MARKS AVE	2	RIVER ROAD (LA18) – DEAD END
TRAVIS ST	4	BARBER RD – DEAD END
2 ND ST	5	RIVER ROAD (LA4) – SHORT ST (3)
4 TH ST	5	RIVER ROAD (LA48) – DEAD END
SHORT ST	5	1 ST ST – 4 TH ST
SECOND ST (6)	6	WASHINGTON ST – EAST ST
BIRCH ST (1)	7	MIMOSA ST (BRIDGE) - CONCRETE
DESOTO DR	7	CORONADO DR – CUL-DE-SAC
PENN ST	7	MIMOSA ST – WADE ST
WADE ST	7	US90 – DEAD END
SPILLWAY UPRAMP		NORCO SIDE OF SPILLWAY
HWWTP ROAD		GATE – TURN IN ROAD









4th Street

2nd Street

UPCOMING PROJECTS

Hydraulic Bottleneck Near Destrehan PS No. 2

➤ Bidding October 18, 2022

Lakewood Drive Rehabilitation (US-90 to Heather Drive)

➤ Letting Scheduled for December 7, 2022

LA 52 Project (Blueberry Hill to Angus Drive)

➤ Letting anticipated in February of 2023

PUBLIC WORKS MOTTO

WE ARE THE STORM WARRIORS

WHEN OTHERS GO INSIDE TO ESCAPE THE STORM, WE RUN OUTSIDE TO PROTECT THE PARISH.

QUESTIONS?

