
TERREBONNE PARISH COUNCIL

PUBLIC SERVICES COMMITTEE

Mr. Alidore "Al"	
Marmande	Chairman
Mr. Gerald Michel	Vice-Chairman
Mr. John Navy	Member
Ms. Arlanda Williams	Member
Mr. Scotty Dryden	Member
Ms. Christa Duplantis-	Member
Prather	Member
Mr. Darrin W. Guidry,	Member
Sr.	Member
Mr. Dirk Guidry	
Mr. Steve Trosclair	



In accordance with the Americans with Disabilities Act, if you need special assistance, please contact Venita H. Chauvin, Council Clerk, at (985) 873-6519 describing the assistance that is necessary.

AGENDA

May 22, 2017
5:30 PM

Parish Council Meeting Room

NOTICE TO THE PUBLIC: If you wish to address the Council, please complete the "Public Wishing to Address the Council" form located on either end of the counter and give it to either the Chairman or the Council Clerk prior to the beginning of the meeting. Individuals addressing the council should be respectful of others in their choice of words and actions. Thank you.

ALL CELL PHONES, PAGERS AND ELECTRONIC DEVICES USED FOR COMMUNICATION SHOULD BE SILENCED FOR THE DURATION OF THE MEETING

INVOCATION

CALL MEETING TO ORDER

ROLL CALL

1. INTRODUCING AN ORDINANCE TO AMEND THE PARISH CODE OF TERREBONNE PARISH BY ADDING TO CHAPTER 18: MOTOR VEHICLES AND TRAFFIC, ARTICLE IV: OPERATION OF VEHICLES, DIVISION 2: PARISH, AND TO ADD A SECTION UNDER THE SAID ARTICLE TO BE DESIGNATED AS SECTION 18-91(4): TO ESTABLISH 45MPH SPEED LIMIT ON BAYOU GARDENS BOULEVARD.AND CALLING A PUBLIC HEARING ON JUNE 14, 2017 AT 6:30 P.M.
2. INTRODUCING AN ORDINANCE TO AMEND THE PARISH CODE OF TERREBONNE PARISH BY ADDING TO CHAPTER 18: MOTOR VEHICLES AND TRAFFIC, ARTICLE

IV: OPERATION OF VEHICLES, DIVISION 2: PARISH, AND TO ADD A SECTION UNDER THE SAID ARTICLE TO BE DESIGNATED AS SECTION 18-91(5): TO ESTABLISH 50 MPH SPEED LIMIT ON THOMPSON ROAD EXTENSION AND CALLING A PUBLIC HEARING ON JUNE 14, 2017 AT 6:30 P.M.

3. INTRODUCING AN ORDINANCE TO AMEND THE PARISH CODE OF TERREBONNE PARISH BY ADDING TO CHAPTER 18: MOTOR VEHICLES AND TRAFFIC, ARTICLE IV: OPERATION OF VEHICLES, DIVISION 2: PARISH, AND TO ADD A SECTION UNDER THE SAID ARTICLE TO BE DESIGNATED AS SECTION 18-91(2a): TO ESTABLISH 30 MPH SPEED ZONES ON THOMPSON ROAD EXTENSION AND CALLING A PUBLIC HEARING ON JUNE 14, 2017 AT 6:30 P.M.
4. Introducing an ordinance that will establish a "4-Way Stop" at the intersection of Southdown Mandalay Road and Savanne Road and calling a public hearing on June 14, 2017 at 6:30 p.m.
5. RESOLUTION: Providing approval of Amendment No. 1 to the Engineering Agreement for Parish Project No.16-SEW-13, Renovations of Afton, Ardoyne and Naquin Sewer Lift Stations, Terrebonne Parish, Louisiana.
6. RESOLUTION: Providing for the acceptance of work performed by Synagro South, LLC., in accordance with the Certificate of Substantial Completion for Parish Project 16-SEW-14, East Coteau/Bayou Blue Sewer Holding Basin Dredging Project, Terrebonne Parish, Louisiana.
7. RESOLUTION: Providing for the acceptance of work performed by Volute, Inc., in accordance with the Certificate of Substantial Completion for Parish Project 16-SEW-05, Bobtown Sewer Package Plant Replacement, Terrebonne Parish, Louisiana.
8. Adjourn

Category Number:
Item Number:



Monday, May 22, 2017

Item Title:
INVOCATION

Item Summary:
INVOCATION



Monday, May 22, 2017

Item Title:

Bayou Gardens Blvd Speed Limit

Item Summary:

INTRODUCING AN ORDINANCE TO AMEND THE PARISH CODE OF TERREBONNE PARISH BY ADDING TO CHAPTER 18: MOTOR VEHICLES AND TRAFFIC, ARTICLE IV: OPERATION OF VEHICLES, DIVISION 2: PARISH, AND TO ADD A SECTION UNDER THE SAID ARTICLE TO BE DESIGNATED AS SECTION 18-91(4): TO ESTABLISH 45MPH SPEED LIMIT ON BAYOU GARDENS BOULEVARD.AND CALLING A PUBLIC HEARING ON JUNE 14, 2017 AT 6:30 P.M.

ATTACHMENTS:

Description	Upload Date	Type
Executive Summary	5/16/2017	Executive Summary
Ordinance	5/16/2017	Ordinance
Backup Material	5/16/2017	Backup Material



EXECUTIVE SUMMARY

(REQUIRED FOR ALL SUBMISSIONS)

PROJECT TITLE

Bayou Gardens Boulevard Speed Limit

PROJECT SUMMARY (200 WORDS OR LESS)

An Ordinance to Amend the Parish Code of Terrebonne Parish by adding to Chapter 18: Motor Vehicles and Traffic, Article IV: Operation of Vehicles, Division 2: Parish, and to add a section under the said Article to be designated as Section 18-91(4): To Establish 45 mph speed limit on Bayou Gardens Boulevard.

PROJECT PURPOSE & BENEFITS (150 WORDS OR LESS)

The speed limit of 45 mph is hereby designated on Bayou Gardens Boulevard between Highway La 660 and Highway La 316; and appropriate speed limit signs shall be erected and maintained along said roadway to create and maintain said intersection. Any vehicles traveling on Thompson Road Extension shall respect the signs erected.

TOTAL EXPENDITURE

AMOUNT SHOWN ABOVE IS: (CIRCLE ONE)

ACTUAL

ESTIMATED

IS PROJECT ALREADY BUDGETED: (CIRCLE ONE)

N/A

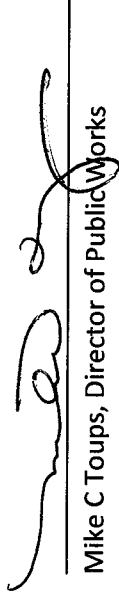
NO

YES

IF YES AMOUNT
BUDGETED:

COUNCIL DISTRICT(S) IMPACTED (CIRCLE ONE)

PARISHWIDE	1	2	3	4	5	6	7	8	9
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Mike C Toups, Director of Public Works

Signature

May 9, 2017

Date

OFFERED BY:
SECONDED BY:

ORDINANCE NO.

AN ORDINANCE TO AMEND THE PARISH CODE OF TERREBONNE PARISH BY ADDING TO CHAPTER 18: MOTOR VEHICLES AND TRAFFIC, ARTICLE IV: OPERATION OF VEHICLES, DIVISION 2: PARISH, AND TO ADD A SECTION UNDER THE SAID ARTICLE TO BE DESIGNATED AS SECTION 18-91(4): TO ESTABLISH 45MPH SPEED LIMIT ON BAYOU GARDENS BOULEVARD.

SECTION I

BE IT ORDAINED, by the Terrebonne Parish Council, in regular session convened and on behalf of the Terrebonne Parish Consolidated Government, that the Parish Code of Terrebonne Parish be amended by adding to Chapter 18: Motor Vehicles and Traffic, Article IV: Operation of Vehicles, Division 2: Parish, and by adding to the said Article, a section to be designated as Section 18:-91(b)(4): Establishing a 45 mph speed limit on Bayou Gardens Boulevard:

CHAPTER 18: MOTOR VEHICLES AND TRAFFIC

ARTICLE IV: OPERATION OF VEHICLES

DIVISON 2: PARISH

SECTION 18-91: SPEED LIMITS

The speed limit of 45 mph is hereby designated on Bayou Gardens Boulevard between Highway La-660 and Highway La-316; and appropriate speed limit signs shall be erected and maintained along the said roadway to create and maintain said intersection. Any vehicles traveling on Bayou Gardens Boulevard shall respect the signs erected and maintained under the provisions of this section.

SECTION II

If any word, clause, phrase, section or other portion of this ordinance shall be declared null, void, invalid, illegal, or unconstitutional, the remaining words, clauses, phrases, sections and other portions of this ordinance shall remain in full force and effect, the provisions of this ordinance hereby being declared to be severable.

SECTION III

This ordinance shall become effective upon approval by the Parish President or as otherwise provided in Section 2-13(b) of the Home Rule Charter for a Consolidated Government for Terrebonne Parish, whichever occurs sooner.

This ordinance, having been introduced and laid on the table for at least two weeks, was voted upon as follows:

THERE WAS RECORDED:

YEAS:

NAYS:

ABSTAINING:

NOT VOTING:

ABSENT:

Barbara Eschete

From: Madeleine Bodin
Sent: Tuesday, April 25, 2017 8:48 AM
To: Mike C. Toups
Cc: Jeanne Bray; David Rome
Subject: Bayou Gardens Blvd Extension Speed Limit

Mike,

As per our conversation yesterday at the Council Committee Meeting, I have looked into the speed limit on the new Bayou Gardens Extension Blvd. The speed limit on the entirety of the new roadway is 45 mph.

If you need anything else, please let me know.

Madeleine M. Bodin, E.I.
Engineer In Training
Terrebonne Parish Consolidated Government
T.P.C.G. Engineering Division
mbodin@tpcg.org
(985) 873-6723 Direct Line
(985) 873-6720 Office
(985) 873-6874 Fax



Monday, May 22, 2017

Item Title:

Thompson Road Extension Speed Limit

Item Summary:

INTRODUCING AN ORDINANCE TO AMEND THE PARISH CODE OF TERREBONNE PARISH BY ADDING TO CHAPTER 18: MOTOR VEHICLES AND TRAFFIC, ARTICLE IV: OPERATION OF VEHICLES, DIVISION 2: PARISH, AND TO ADD A SECTION UNDER THE SAID ARTICLE TO BE DESIGNATED AS SECTION 18-91(5): TO ESTABLISH 50 MPH SPEED LIMIT ON THOMPSON ROAD EXTENSION AND CALLING A PUBLIC HEARING ON JUNE 14, 2017 AT 6:30 P.M.

ATTACHMENTS:

Description	Upload Date	Type
Executive Summary	5/16/2017	Executive Summary
Ordinance	5/16/2017	Ordinance



EXECUTIVE SUMMARY

(REQUIRED FOR ALL SUBMISSIONS)

PROJECT TITLE

Thompson Road Extension Speed Limit

PROJECT SUMMARY (200 WORDS OR LESS)

An Ordinance to Amend the Parish Code of Terrebonne Parish by adding to Chapter 18: Motor Vehicles and Traffic, Article IV: Operation of Vehicles, Division 2: Parish, and to add a section under the said Article to be designated as Section 18-91(5): To Establish 50 mph speed limit on Thompson Road Extension.

PROJECT PURPOSE & BENEFITS (150 WORDS OR LESS)

The speed limit of 50 mph is hereby designated on Thompson Road Extension with the exception of established speed zones beginning at 195' before Highway La 57 and at 635' before Highway La 56 and appropriate speed limit signs shall be erected and maintained along said roadway to create and maintain said intersection. Any vehicles traveling on Thompson Road Extension shall respect the signs erected.

TOTAL EXPENDITURE

AMOUNT SHOWN ABOVE IS: (CIRCLE ONE)

ACTUAL

ESTIMATED

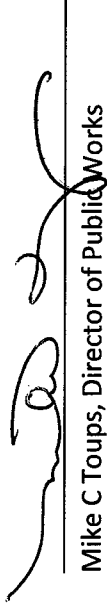
IS PROJECT ALREADY BUDGETED: (CIRCLE ONE)

N/A NO YES

IF YES AMOUNT
BUDGETED:

COUNCIL DISTRICT(S) IMPACTED (CIRCLE ONE)

PARISHWIDE	1	2	3	4	5	6	7	8	9
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Mike C Toups, Director of Public Works

Signature

May 9, 2017

Date

OFFERED BY:
SECONDED BY:

ORDINANCE NO.

AN ORDINANCE TO AMEND THE PARISH CODE OF TERREBONNE PARISH BY ADDING TO CHAPTER 18: MOTOR VEHICLES AND TRAFFIC, ARTICLE IV: OPERATION OF VEHICLES, DIVISION 2: PARISH, AND TO ADD A SECTION UNDER THE SAID ARTICLE TO BE DESIGNATED AS SECTION 18-91(5): TO ESTABLISH 50MPH SPEED LIMIT ON THOMPSON ROAD EXTENSION.

SECTION I

BE IT ORDAINED, by the Terrebonne Parish Council, in regular session convened and on behalf of the Terrebonne Parish Consolidated Government, that the Parish Code of Terrebonne Parish be amended by adding to Chapter 18: Motor Vehicles and Traffic, Article IV: Operation of Vehicles, Division 2: Parish, and by adding to the said Article, a section to be designated as Section 18:-91(b)(5): Establishing a 50 mph speed limit on Thompson Road Extension:

CHAPTER 18: MOTOR VEHICLES AND TRAFFIC

ARTICLE IV: OPERATION OF VEHICLES

DIVISON 2: PARISH

SECTION 18-91: SPEED LIMITS

The speed limit of 50 mph is hereby designated on Thompson Road Extension with the exception of established speed zones beginning at 195' before Highway La-57 and at 635' before Highway La-56; and appropriate speed limit signs shall be erected and maintained along the said roadway to create and maintain said intersection. Any vehicles traveling on Thompson Road Extension shall respect the signs erected and maintained under the provisions of this section.

SECTION II

If any word, clause, phrase, section or other portion of this ordinance shall be declared null, void, invalid, illegal, or unconstitutional, the remaining words, clauses, phrases, sections and other portions of this ordinance shall remain in full force and effect, the provisions of this ordinance hereby being declared to be severable.

SECTION III

This ordinance shall become effective upon approval by the Parish President or as otherwise provided in Section 2-13(b) of the Home Rule Charter for a Consolidated Government for Terrebonne Parish, whichever occurs sooner.

This ordinance, having been introduced and laid on the table for at least two weeks, was voted upon as follows:

THERE WAS RECORDED:

YEAS:

NAYS:

ABSTAINING:

NOT VOTING:

ABSENT:



Monday, May 22, 2017

Item Title:

Thompson Road Extension Speed Zones

Item Summary:

INTRODUCING AN ORDINANCE TO AMEND THE PARISH CODE OF TERREBONNE PARISH BY ADDING TO CHAPTER 18: MOTOR VEHICLES AND TRAFFIC, ARTICLE IV: OPERATION OF VEHICLES, DIVISION 2: PARISH, AND TO ADD A SECTION UNDER THE SAID ARTICLE TO BE DESIGNATED AS SECTION 18-91(2a): TO ESTABLISH 30 MPH SPEED ZONES ON THOMPSON ROAD EXTENSION AND CALLING A PUBLIC HEARING ON JUNE 14, 2017 AT 6:30 P.M.

ATTACHMENTS:

Description	Upload Date	Type
Executive Summary	5/16/2017	Executive Summary
Ordinance	5/16/2017	Ordinance



EXECUTIVE SUMMARY

(REQUIRED FOR ALL SUBMISSIONS)

PROJECT TITLE
Thompson Road Extension Speed Zones

PROJECT SUMMARY (200 WORDS OR LESS)

An Ordinance to Amend the Parish Code of Terrebonne Parish by adding to Chapter 18: Motor Vehicles and Traffic, Article IV: Operation of Vehicles, Division 2: Parish, and by adding to the said Article, a section to be designated as Section 18:-91(b)(2a): Establishing 30 mph speed limit zones on Thompson Road Extension for 195' from Highway La 57 and for 635' from Highway La 56.

PROJECT PURPOSE & BENEFITS (150 WORDS OR LESS)

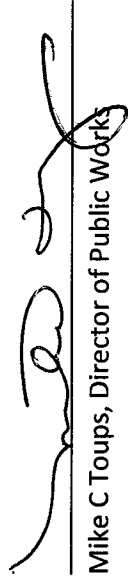
To establish 30 mph speed zones on Thompson Road Extension and appropriate speed limit signs shall be erected and maintained along said roadway to create and maintain said intersection. Any vehicles traveling on Thompson Road Extension shall respect the signs erected.

TOTAL EXPENDITURE

TOTAL EXPENDITURE			
AMOUNT SHOWN ABOVE IS: (CIRCLE ONE)			
ACTUAL		ESTIMATED	
IS PROJECT ALREADY BUDGETED: (CIRCLE ONE)			
N/A	NO	YES	IF YES AMOUNT BUDGETED:

COUNCIL DISTRICT(S) IMPACTED (CIRCLE ONE)

PARISHWIDE	1	2	3	4	5	6	7	8	9
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Mike C Toups, Director of Public Works

Signature

May 9, 2017

Date

OFFERED BY:
SECONDED BY:

ORDINANCE NO.

AN ORDINANCE TO AMEND THE PARISH CODE OF TERREBONNE PARISH BY ADDING TO CHAPTER 18: MOTOR VEHICLES AND TRAFFIC, ARTICLE IV: OPERATION OF VEHICLES, DIVISION 2: PARISH, AND TO ADD A SECTION UNDER THE SAID ARTICLE TO BE DESIGNATED AS SECTION 18-91(2a): TO ESTABLISH 30MPH SPEED ZONES ON THOMPSON ROAD EXTENSION.

SECTION I

BE IT ORDAINED, by the Terrebonne Parish Council, in regular session convened and on behalf of the Terrebonne Parish Consolidated Government, that the Parish Code of Terrebonne Parish be amended by adding to Chapter 18: Motor Vehicles and Traffic, Article IV: Operation of Vehicles, Division 2: Parish, and by adding to the said Article, a section to be designated as Section 18:-91(b)(2a): Establishing 30 mph speed limit zones on Thompson Road Extension for 195' from Highway La-57 and for 635' from Highway La-56:

CHAPTER 18: MOTOR VEHICLES AND TRAFFIC

ARTICLE IV: OPERATION OF VEHICLES

DIVISON 2: PARISH

SECTION 18-91: SPEED LIMITS

The speed limit of 30 mph is hereby designated on Thompson Road Extension for 195 feet from Highway La-57 and for 635 feet from Highway La-56; and appropriate speed limit signs shall be erected and maintained along the said roadway to create and maintain said intersection. Any vehicles traveling on Thompson Road Extension shall respect the signs erected and maintained under the provisions of this section.

SECTION II

If any word, clause, phrase, section or other portion of this ordinance shall be declared null, void, invalid, illegal, or unconstitutional, the remaining words, clauses, phrases, sections and other portions of this ordinance shall remain in full force and effect, the provisions of this ordinance hereby being declared to be severable.

SECTION III

This ordinance shall become effective upon approval by the Parish President or as otherwise provided in Section 2-13(b) of the Home Rule Charter for a Consolidated Government for Terrebonne Parish, whichever occurs sooner.

This ordinance, having been introduced and laid on the table for at least two weeks, was voted upon as follows:

THERE WAS RECORDED:

YEAS:

NAYS:

ABSTAINING:

NOT VOTING:

ABSENT:



Monday, May 22, 2017

Item Title:

Establish 4 Way Stop, Southdown Mandalay & Savanne Roads

Item Summary:

Introducing an ordinance that will establish a "4-Way Stop" at the intersection of Southdown Mandalay Road and Savanne Road and calling a public hearing on June 14, 2017 at 6:30 p.m.

ATTACHMENTS:

Description	Upload Date	Type
Proposed ordinance	5/17/2017	Ordinance
Four Way Stop Savanne Road and Southdown Mandalay Road	5/17/2017	Backup Material

OFFERED BY: Mr. Darrin Guidry, Sr.
SECONDED BY:

ORDINANCE NO.

AN ORDINANCE AMENDING THE PARISH CODE OF TERREBONNE PARISH, CHAPTER 18, MOTOR VEHICLES AND TRAFFIC, ARTICLE IV. OPERATION OF VEHICLES, DIVISION 2. PARISH, SECTION 18-87. FOUR-WAY STOP INTERSECTIONS, TO ESTABLISH A “4-WAY STOP” AT THE INTERSECTION OF SOUTHDOWNDOWN MANDALAY ROAD AND SAVANNE ROAD; TO AUTHORIZE THE INSTALLATION OF THE REQUIRED SIGNS; AND TO ADDRESS OTHER MATTERS RELATIVE THERETO.

SECTION I

BE IT ORDAINED by the Terrebonne Parish Council, in regular session convened, acting pursuant to the authority invested in it by the Constitution and laws of the State of Louisiana, the Home Rule Charter for a Consolidated Government for Terrebonne Parish, and including, but not limited to, LSA R.S. 33:1368 and other statutes of the State of Louisiana, to amend the parish Codes of Terrebonne Parish, Chapter 18. Motor Vehicles and Traffic, Article IV. Operation of Vehicles, Division 2. Parish, Section 18-87. Four-way stop intersections, so as to establish a “4 Way Stop” at the intersection of Southdown Mandalay Road and Savanne Road, as follows:

CHAPTER 18. MOTOR VEHICLES AND TRAFFIC
ARTICLE IV. OPERATION OF VEHICLES
DIVISION 2. PARISH
SECTION 18-87. FOUR-WAY STOP INTERSECTIONS

The intersection of Southdown Mandalay Road and Savanne Road shall hereby be established as a “4 Way Stop” and the appropriate “4 Way Stop” signs shall be erected and maintained at said location. Any vehicle traveling at the aforementioned location shall respect and adhere to the signs as posted.

SECTION II

If any word, clause, phrase, section or other portion of this ordinance shall be declared null, void, invalid, illegal, or unconstitutional, the remaining words, clauses, phrases, sections or other portions of this ordinance shall remain in full force and effect, the provisions of this section hereby being declared to be severable.

SECTION III

Any ordinance or part thereof in conflict herewith is hereby repealed.

SECTION IV

This ordinance shall become effective upon approval by the Parish President or as otherwise provided in Section 2-13 (b) of the Home Rule Charter for Consolidated Government for Terrebonne Parish, whichever occurs sooner.

This ordinance, having been introduced and laid on the table for at least two weeks, was voted upon as follows:

Venita Chauvin

From: Darrin W. Guidry
Sent: Monday, May 8, 2017 8:51 AM
To: Venita Chauvin
Cc: Christopher Pulaski; Al Marmande
Subject: FW: Southdown Mandalay at Savanne Road Intersection Analysis Final Report
Attachments: Southdown Mandalay and Savanne Road Report Final v1 w Appendices.pdf

Venita,

Please add an agenda item to the next committee meetings to place a four-way stop at Savanne Rd and Southdown Mandalay Rd and adjust blinking yellow light to blinking red light. The traffic study is attached.

Darrin Guidry
Councilman
Terrebonne Parish Council District 6
PO Box 2768
Houma, LA 70361
985-873-6412 (office)
985-873-6521 (fax)
985-688-6632 (cell)



From: Christopher Pulaski
Sent: Wednesday, March 29, 2017 8:30 AM
To: Darrin W. Guidry; David Rome
Cc: Mike C. Toups
Subject: FW: Southdown Mandalay at Savanne Road Intersection Analysis Final Report

Attached is the traffic safety assessment for Savanne and Southdown Mandalay. Josh told me yesterday that it seemed like there was a spike in crashes a year of two ago, but since then a tree and other sight obstructions have been removed and the crash count was reduced. Although the study does indicate that a 4-way stop could be warranted, I suggest that we discuss all options before making a recommendation.

Christopher M. Pulaski, PLA
Terrebonne Parish Planning & Zoning
(985) 873-6569
cpulaski@tpcg.org
"Saltwater Fishing Capital of the World"

From: Josh Manning [<mailto:josh@scpdcc.org>]
Sent: Tuesday, March 28, 2017 4:05 PM
To: Christopher Pulaski
Cc: Pat Gordon
Subject: Southdown Mandalay at Savanne Road Intersection Analysis Final Report

Chris,

Please see the attached document with our analysis and recommendations. It's a bit lengthy but I tried to include as much background documentation for you guys as I could. The recommendations start on page 16.

Please let me know if you have any questions or if we can be of further assistance.

Thanks,

Joshua Manning

Transportation Planner II

Houma-Thibodaux MPO

South Central Planning and Development Commission

P.O. Box 1870

Gray, LA 70359

Phone: 985-851-2900

Fax: 985-851-4472

<http://www.htmpo.org>

<http://www.scpdc.org>

INTERSECTION ANALYSIS AND REVIEW

Southdown Mandalay Road at Savanne Road

MARCH 27, 2017

SOUTH CENTRAL PLANNING AND DEVELOPMENT
PO Box 1870, Gray, LA 70359

Introduction

The South Central Planning and Development Commission (SCPDC) was contacted by the Terrebonne Parish Consolidated Government (TPCG) in January 2017 to conduct a traffic analysis at the intersection of Southdown Mandalay Road and Savanne Road to determine if a 4-way stop is warranted.

The intersection is located in the Bayou Black community directly adjacent to a gas station adjoined to a fast food restaurant (Savanne Food and Gas) on the east side of the intersection and a lawn mower retail store on the west side (Premier Power Equipment). Southdown Mandalay Road runs parallel to LA 182 along the northern bank of Bayou Black. A map of the location is included in the appendix. The primary surrounding land-uses to the study area are commercial, residential, and agricultural. The existing traffic control is a caution light with a flashing yellow for Southdown Mandalay Road and a flashing red for Savanne Road. Savanne also has a stop sign on both approaches. Southdown Mandalay Road has a speed limit of 45MPH and Savanne Road has a speed limit of 35MPH.

Methodology

SCPDC used a variety of techniques for the intersection analysis. These included traffic counts, turning movements collected during peak hours, an analysis of crash data, sight-distance measurements, a site-visit, and the gathering of qualitative anecdotal observations and interviews from individuals familiar with the location.

The traffic counts were collected using Jamar Technologies traffic counters. The counters were initially deployed in late January and early February 2017. The counters use a two-tube configuration and are left out for a minimum one-week period to collect data on volume, speed, gap, and vehicle classification. During the first collection period, one of the tubes failed on the eastern segment of Southdown Mandalay Road between Savanne Road and the St. Anthony Bridge. This counter was successfully redeployed in early March.

The traffic counts were used to determine the initial volume and peak hours of travel. The identified peak hours are 7AM to 8AM and 5PM to 6PM. Staff were then deployed to the location in late March to conduct a site visit and collect turning movement data during the identified peak volume hours.

Local crash data was collected using the Crash 3 database hosted by the Louisiana Department of Transportation and Development (DOTD). SCPDC staff downloaded all crash locations in Terrebonne Parish during the five-year period of January 1, 2011 to December 31, 2015. This is the latest date of accurate crash data available by location in the database. Once downloaded, the data was opened in Caliper's TransCAD software to select the crash locations within a close proximity to the intersection. Once the specific crash locations were selected, reports were downloaded via Crash 3 for further analysis.

Google map imagery was used to determine approximate sight distances at the intersection. Aerial imagery and Google's distance measurement tool was used to mark a 500 ft. sight triangle from the intersection along the roadway. This is the distance, according to the American Association of State

This document is provided solely for the purpose of identifying, evaluating and planning safety improvements on public roads; and is therefore exempt from discovery or admission under 23 U.S.C. 409.1.

Highways and Transportation Officials (AASHTO), which should be visible to roadway users at a stop-controlled intersection attempting to make left turns.

In addition to the above methods, a site visit and several interviews were conducted to collect qualitative data. The results of this and the other methods mentioned above are located in the next section of this report.

Results and Analysis

The results and analysis of the methods described earlier and discussed in this section.

Traffic Volumes

The observed traffic count volumes for the location are listed in Object 1. The peak hour travel for the various roadways in the intersection was determined to be 7AM to 8AM and 5PM to 6PM. The various volume reports, as well as a map of the approximate locations of the counts, are included in the appendices.

Object 1: Average Daily Traffic by Roadway

Roadway	ADT	AM Peak	Peak ADT	PM Peak	Peak ADT
Savanne Road	3,720	7:00	276	5:00	373
Savanne Road Bridge	2,840	7:00	226	4:00	260
Southdown Man. Western Segment	1,391	7:00	81	5:00	166
Southdown Man. Eastern Segment	1,434	7:00	103	5:00	138

Source: South Central Planning and Development

From this data it can be determined that while Southdown Mandalay Road is the through street in the intersection, Savanne clearly has more volume both throughout the day and at peak hours.

The traffic count data also allow for gap analysis to determine the average amount of time that passes between recorded vehicles. The peak-hour gap data for Southdown Mandalay approaching Savanne Road is included in Objects 2 and 3. Gap data was not considered for Savanne Road as it is currently stop controlled.

The data show there is an average of over 20 seconds between vehicles on both approaches from Southdown Mandalay Road and a mean of 29 seconds on the eastbound approach and of 27.5 seconds on the westbound approach. Thus, it can be assumed that there is ample opportunity for vehicles waiting at Savanne Road to safely cross the intersection. Therefore, any crashes or delays at the intersection are not attributed directly to the amount of traffic going through the intersection but other factors.

Turning Movements

Turning movement data was collected during the morning and evening of March 22, 2017. SCPDC staff collected the data manually by observing the intersection between the hours of 7AM to 9AM and 5PM to 6PM. Data was recorded using Jamar Technologies' TDC-8 handheld traffic data collector. Staff parked

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in the parking lot adjacent to the intersection and recorded the individual movements on the device. The reports detailing the various movements are included in the appendix and graphs visualizing the movements are displayed in Objects 4 and 5.

Object 2: Southdown Mandalay Eastbound Gap Time Observations on 1/31/17

Gap Time	AM Observations	PM Observations	Total Observations
0-4 Seconds	19	7	26
5-6 Seconds	1	1	2
6-8 Seconds	4	1	5
9-10 Seconds	3	2	5
11-12 Seconds	0	1	1
13-14 Seconds	2	0	2
15-16 Seconds	1	1	2
17-18 Seconds	2	2	4
19-20 Seconds	2	0	2
21-22 Seconds	2	1	3
23-24 Seconds	2	3	5
25-26 Seconds	3	0	3
27-28 Seconds	2	0	2
29+ Seconds	45	36	81
Average Gap			20.9
Mean Gap			29

Source: South Central Planning and Development

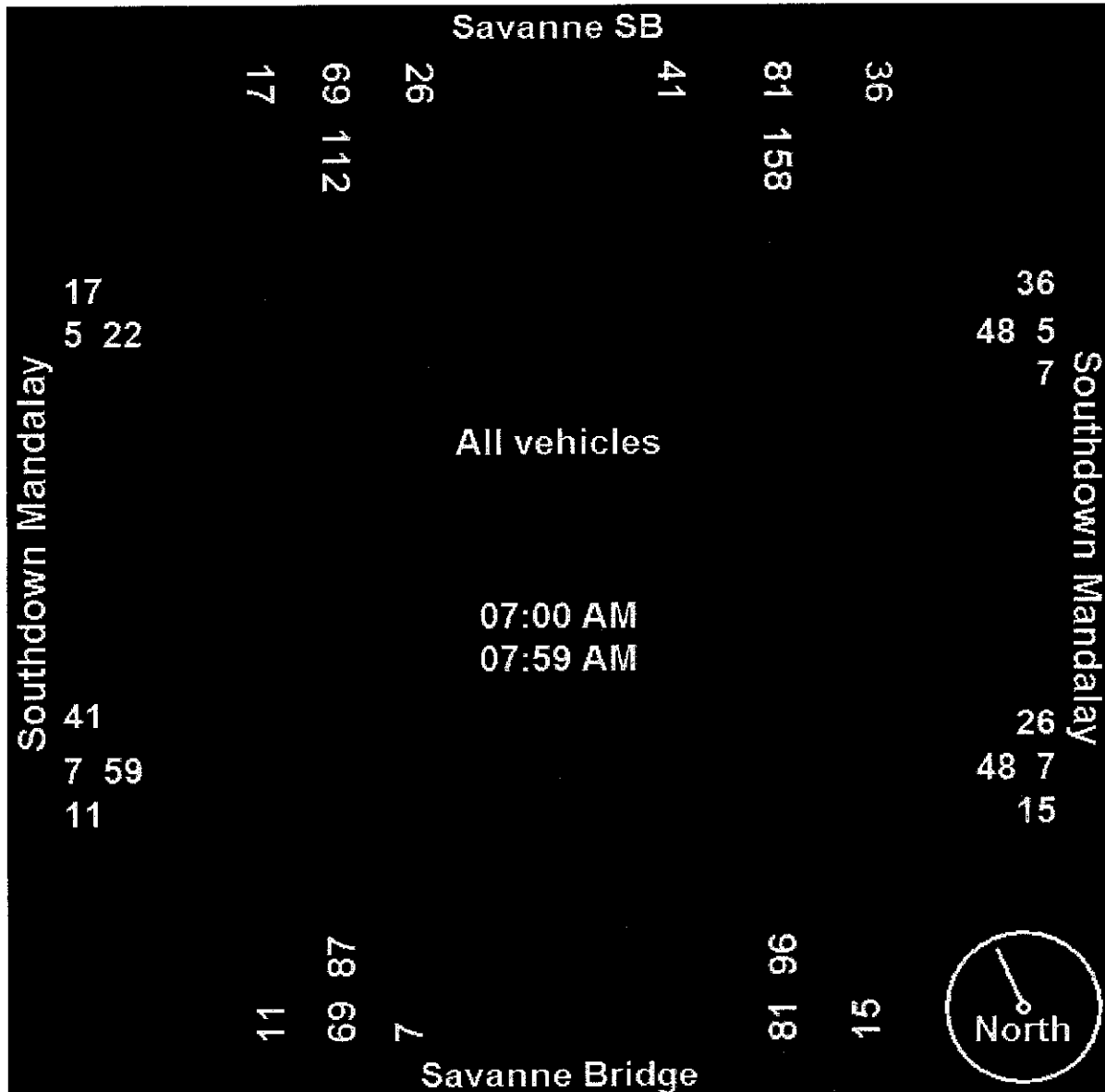
Object 3: Southdown Mandalay Westbound Gap Time Observations on 3/14/17

Gap Time	AM Observations	PM Observations	Total Observations
0-4 Seconds	7	17	24
5-6 Seconds	1	1	2
6-8 Seconds	2	4	6
9-10 Seconds	3	4	7
11-12 Seconds	1	1	2
13-14 Seconds	2	6	8
15-16 Seconds	1	4	5
17-18 Seconds	2	0	2
19-20 Seconds	1	1	2
21-22 Seconds	1	1	2
23-24 Seconds	0	5	5
25-26 Seconds	3	4	7
27-28 Seconds	0	2	2
29+ Seconds	30	42	72
Average Gap			20.1
Mean Gap			27.5

Source: South Central Planning and Development

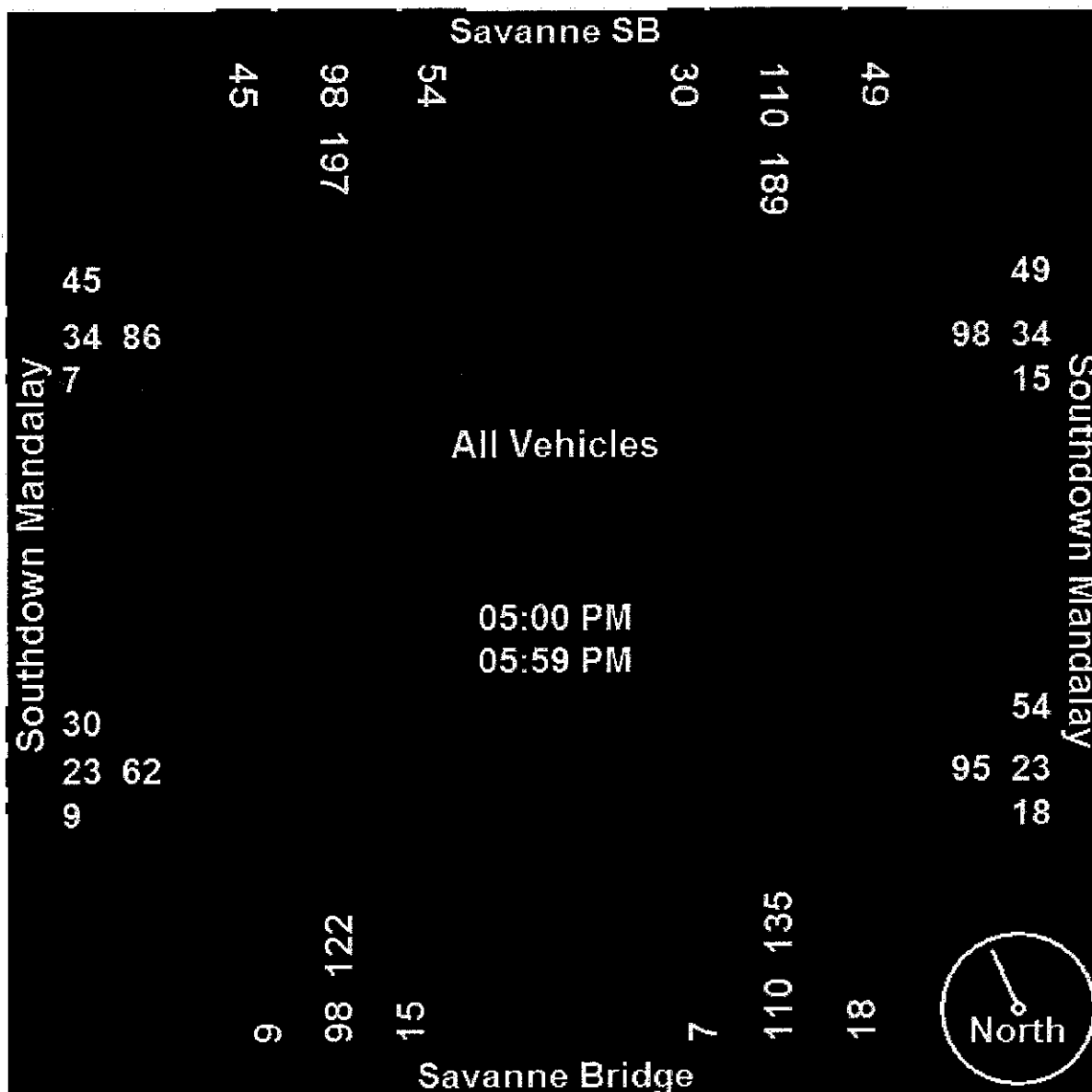
This document is provided solely for the purpose of identifying, evaluating and planning safety improvements on public roads; and is therefore exempt from discovery or admission under 23 U.S.C. 409.1.

Object 4: AM Peak Turning Movement Data (7am – 8am)



Source: South Central Planning and Development

Object 5: PM Peak Turning Movement Data (5pm – 6pm)



Source: South Central Planning and Development

From the data displayed in Objects 4 and 5, it can be determined that the primary movement through the intersection is through traffic between Savanne Road and the corresponding bridge over Bayou Black. This keeps with what was discovered during the traffic count phase and the data discussed in Object 1. The other next most common movements all deal with vehicles from Southdown Mandalay Road making either a left or right turn to head north on Savanne Road and vice-versa. There were relatively few through movements on Southdown Mandalay Road, though there are more during the evening peak hour than the morning peak hour. The least common movement appears to be left turns from the Savanne Road Bridge onto Southdown Mandalay.

Crash History

The crash history was obtained through the use of DOTD's Crash 3 database. The period examined is January 1, 2011 to December 31, 2015. This represented the latest five years of available crash data. While the database does have records from 2016 available, the data has not yet been cleaned by DOTD and is often geocoded in the wrong location. Thus, DOTD recommends that agencies wait one full calendar year before using the data from the previous year.

The initial search showed 14 crashes within proximity to the intersection during the 5 year period. Of these, two were removed after a review of the crash reports revealed they were not related to the actions at the intersection. Thus, 12 relevant crashes total for the 5 year period. It is also important to note that of these, 6 occurred during the 12 month period from April 2013 thru March 2014, which meets the warrant for a 4-way stop. A crash summary is listed in Object 6.

Object 6: Crash History

Date	Hour	Surface Conditions	Manner of Collision	Alcohol	Severity
2012-01-24	17	Dry	Right Turn	No	PDO
2012-06-17	19	Wet	Rear End	Yes	PDO
2012-08-05	15	Wet	Rear End	No	PDO
2013-04-01	20	Dry	Right Angle	No	PDO
2013-05-08	18	Dry	Right Angle	No	Severe
2013-08-14	17	Wet	Sideswipe	No	PDO
2014-01-09	17	Dry	Right Angle	No	PDO
2014-01-20	11	Dry	Right Angle	No	PDO
2014-03-26	15	Dry	Right Angle	No	PDO
2014-04-28	16	Dry	Right Angle	No	PDO
2015-01-22	16	Wet	Right Angle	No	PDO
2015-04-21	19	Dry	Right Angle	No	PDO

Source: LaDOTD Crash 3 Database

All but one of the crashes all happened after noon, with the most common hour being 5pm-6pm (3 crashes). For surface condition, 67% of the crashes happened with dry conditions and 33% of the crashes coming with wet surface conditions. The majority of the crashes (67%) are right angle crashes, typically involving a vehicle from Savanne Road or Savanne Road Bridge entering the intersection into the path of the vehicle on Southdown Mandalay Road. After reviewing the driver interviews in the police

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reports, most drivers entering the intersection from Savanne Road or from the Savanne Road bridge indicated that they did not see the vehicle on Southdown Mandalay Road.

Two of the crashes are rear end crashes, both occurring on the southbound lane on Savanne Road at the stop sign under wet conditions. However, reviewing the crash reports one of those crashes involved a drunk driver stopping his vehicle at the stop sign and, after some time passed, putting his vehicle into reverse and backing into the car waiting behind him.

Field Observations and Interviews

Field staff visited the location on March 22, 2017 to observe the site. Initial observations included the fact that there was no stop bar on the bridge, the stop signs seemed undersized, the caution light needed improving, the sight-distance was obscured by vegetation and signage, and the intersection was in need of advanced warning signs. Staff also noticed a lack of access management in the two parking lots adjacent to the intersection that led many vehicles entering the intersection directly from the parking lot or entering the lot from the intersection. Object 7 illustrates this problem. Field observations also showed a number of vehicles, particularly large trucks, parking adjacent to the intersection and obstructing the view, as illustrated in Object 8. There was also lots of vehicles cutting through the parking lot to avoid the intersection altogether.

Object 7: Vehicle Entering Intersection from Parking Lot



Source: South Central Planning and Development, March 2017

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Object 8: Parked Large Truck Obstructing View



Source: South Central Planning and Development, March 2017

Interviews with local residents and store employees seemed to correlate with field observations. One resident indicated that visibility at the intersection is a major problem, particularly when large trucks obstruct the view. One store employee however, had the perception that individuals who cause an accident by entering the intersection from the stop controlled roadways are under the assumption that Southdown Mandalay Road is also stop controlled. However, this was not recorded in any of the statements given to police in the crash records.

Sight Distance Analysis

Based on field observations and a review of crash data, SCPDC staff determined that it was important to review the sight distances at the intersection. Staff used Google maps, Google's measuring tool, and photographs from the March site visit to determine if sight distance may be a problem.

According to the American Association of State Highways and Transportation Officials (AASHTO), roadways with a speed limit of 45 MPH should have a sight distance of 500 feet at stop controlled intersections for passenger cars turning left onto two-lane, two-way roadways with level grades.

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By measuring the distance using Google's aerial imagery and using Google's Street View, it was determined that vegetation and signage combine to obscure the sight distance for vehicles making left turns from both approaches of Savanne Road onto Southdown Mandalay Road. Objects 9 – 14 illustrate.

Object 9: Savanne Bridge Sight Distance for Left Turn



Source: Google Maps

According to Object 9, the drivers on the intersection approach from the Savanne Road Bridge should be able to see unobstructed to the large oak tree shown at the end of the measurement line. However, Object 10 shows that there several trees located along the bank of Bayou Black that are obscuring this view.

Sight distance for the right turn at this location are not included in this report as the images and crash data do not indicate a problem for this movement.

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Object 10: Savanne Bridge Left Turn Sight Distance Obstructions



Source: South Central Planning and Development, March 2017

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Object 11: Savanne Southbound Approach Sight Distance for Left Turn



Source: Google Maps

Objects 11 and 12 show the sight distance for the left and right turns from the southbound approach on Savanne Road. Objects 13 and 14 show that these views are obstructed by signage. To the left is the large Shell station sign, and to the right is the smaller message sign as well as a sign hanging on the business's fence.

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Object 12: Savanne Southbound Approach Sight Distance for Left Turn



Source: Google Street View

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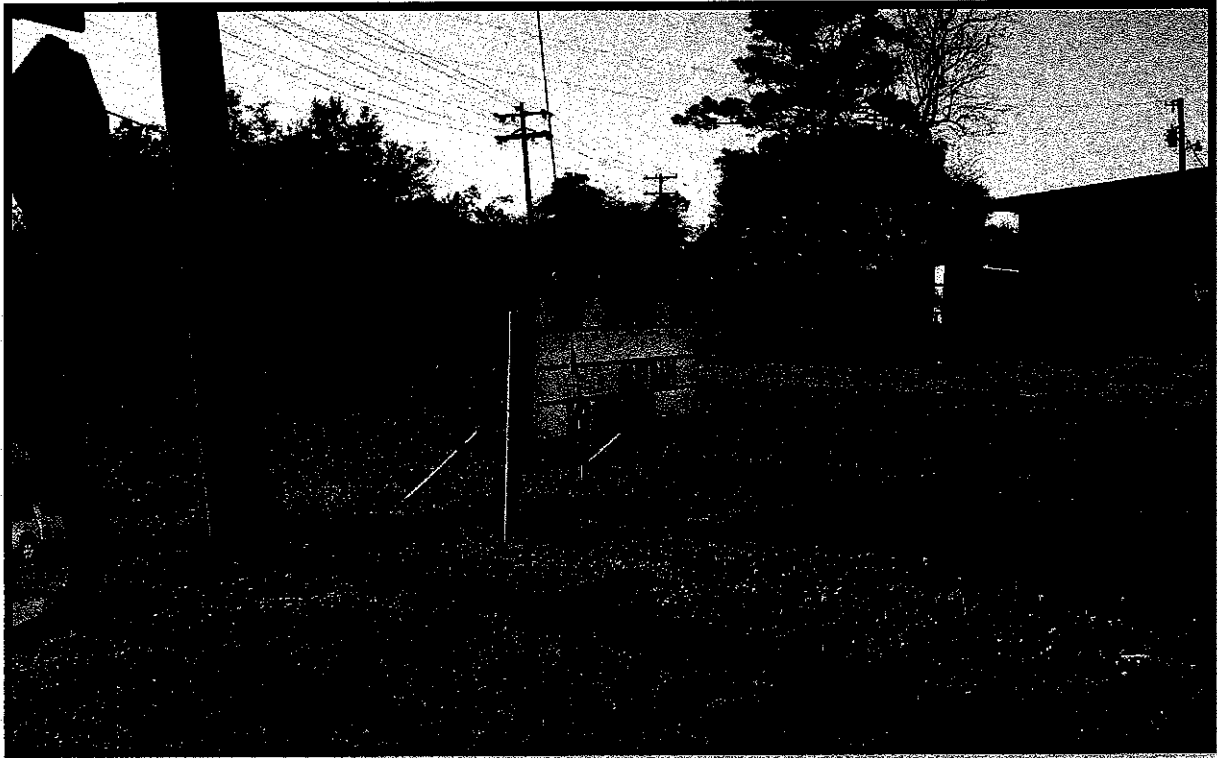
Object 13: Savanne Southbound Approach Left Turn Sight Distance Obstructions



Source: South Central Planning and Development, March 2017

This document is provided solely for the purpose of identifying, evaluating and planning safety improvements on public roads; and is therefore exempt from discovery or admission under 23 U.S.C. 409.1.

Object 14: Savanne Southbound Approach Left Turn Sight Distance Obstructions



Source: South Central Planning and Development, March 2017

Stop Sign Warrant Analysis

The traffic counts, turning movement, and crash data were entered into Ridge Engineering's *PC-Warrants for Windows* software. The software evaluates the conditions entered against various warrants established by the latest *Manual on Uniform Traffic Control Devices* (MUTCD). For stop signs, three warrants are evaluated – crash experience, volume, and delays. SCPDC collected data on volume and crashes, as discussed above, and based on these criteria, a stop sign is warranted as the intersection exceeds the minimum number of crashes in a 12 month period. The full report is located in the appendix.

It is important to note that the 12-month period with enough crashes to warrant the 4-way stop is the 12 month period from April 2013 thru March 2014, during which there were 6 crashes. During the 12 month period from January 1, 2015 to December 31, 2015 – the latest year for available crash data – only 2 crashes are recorded.

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Recommendations

Although the crash history does warrant a 4-way stop, a closer look at data reveals an average gap of over 20 seconds between vehicles at the traffic counts on Southdown Mandalay Road taken closest to the intersection. Thus, vehicles on Savanne should theoretically have plenty of time to safely traverse the intersection between the approaches of other vehicles on the roadway.

Through the evaluation of the crash reports, staff noticed most of the crashes at the intersection tend to take place with vehicles stopped at Savanne Road reportedly not seeing the vehicles on Southdown Mandalay. This data was backed up with staff field observations, interviews, and a sight distance analysis. Thus, SCPDC recommends that the following countermeasures be pursued before the installation of a 4-way stop. If these countermeasures do not reduce the number of crashes at the intersection, or if for various reasons they cannot be implemented, then a 4-way stop would be warranted and recommended. The effectiveness of the countermeasures should be evaluated periodically.

Not all countermeasures need to be addressed immediately, but SCPDC would highly recommend that the lower cost countermeasures such as the improved signage and roadways markings and the trimming of vegetation within the parish right-of-way be implemented as soon as possible.

More information on the various countermeasures listed here can be found in the appendix.

1. Trim Vegetation to Improve Sight Distance

SCPDC recommends that trimming vegetation and clearing the sight distance be done before attempting any other countermeasure. Analysis shows that the vision is obscured in three of the four directions for left turns on both Savanne Road approaches. At a minimum, the parish should trim all vegetation and remove non-regulatory signage within parish right-of-way. It is strongly recommended that the parish work with local land owners and residents to trim back vegetation on private property and relocate signage. In addition, it is recommended that the parish develop an ongoing maintenance plan for this location to ensure a clear line of sight remains in the coming years. According to the Federal Highway Administration, clearing the sight distance on rural roadways has a crash modification factor of 0.44-0.89 and a cost-benefit ratio of 157.3. As most of the crashes at the intersection seem to be the result of obscured visibility, this countermeasure would be the first priority for the parish at this location.

2. Improved Signage and Roadway Markings

SCPDC staff observed that the stop signs appeared to be undersized. Upgrading the signs with larger and retro-reflective signs would improve sign recognition. In addition, a stop bar should be installed on Savanne Road Bridge.

Staff also observed a need for advanced intersection warning signage on both Southdown Mandalay approaches and the southbound Savanne Road approach. Southdown Mandalay advanced intersection warning signage could include a "Watch for Entering Traffic" sign with yellow flashing beacons as well as the existing "Intersection Ahead" signs. Savanne Road signage could include a "Stop Ahead" sign with red flashing beacon.

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The parish should consider removing or upgrading the flashing warning light currently installed in the middle of the intersection as staff observed the caution light to be ineffective. In some instances, the light appeared to confuse some drivers on Southdown Mandalay who came to a complete stop, perhaps thinking it was a flashing red light. If the parish installs flashing beacons on the advanced warning signage, it may no longer need the flashing caution light.

3. Infrastructure Improvements

The parish should consider installing a raised landscaped island or other barrier in the parish-owned right of way between the intersection and the gas station to limit access to the intersection. The TPCG online GIS (see appendix) appears to show that the parish owns quite a bit of the right of way currently being used as parking in the station. This would limit the ability of large trucks to park in the sight lines and make it more difficult for vehicles to cut through the parking lot.

4. Regulatory Recommendations

The parish should consider regulations that would address the issues not just at this intersection, but at similar locations throughout the parish. First, the parish should consider establishing sight distances for stop-controlled intersection throughout the parish and then regulate signage and vegetation within that sight distance. This sight distance should comply with the requirements by AASHTO in *Policy on Geometric Design of Highways and Streets*. If this is done, then the parish would be able to prohibit the Shell sign from being replaced or improved in the future if there is any damage due to storms or other factors.

The parish should also consider regulating parking within the sight distance at this intersection. This may require cooperation from law enforcement and with the station owner to ensure this regulation is followed.

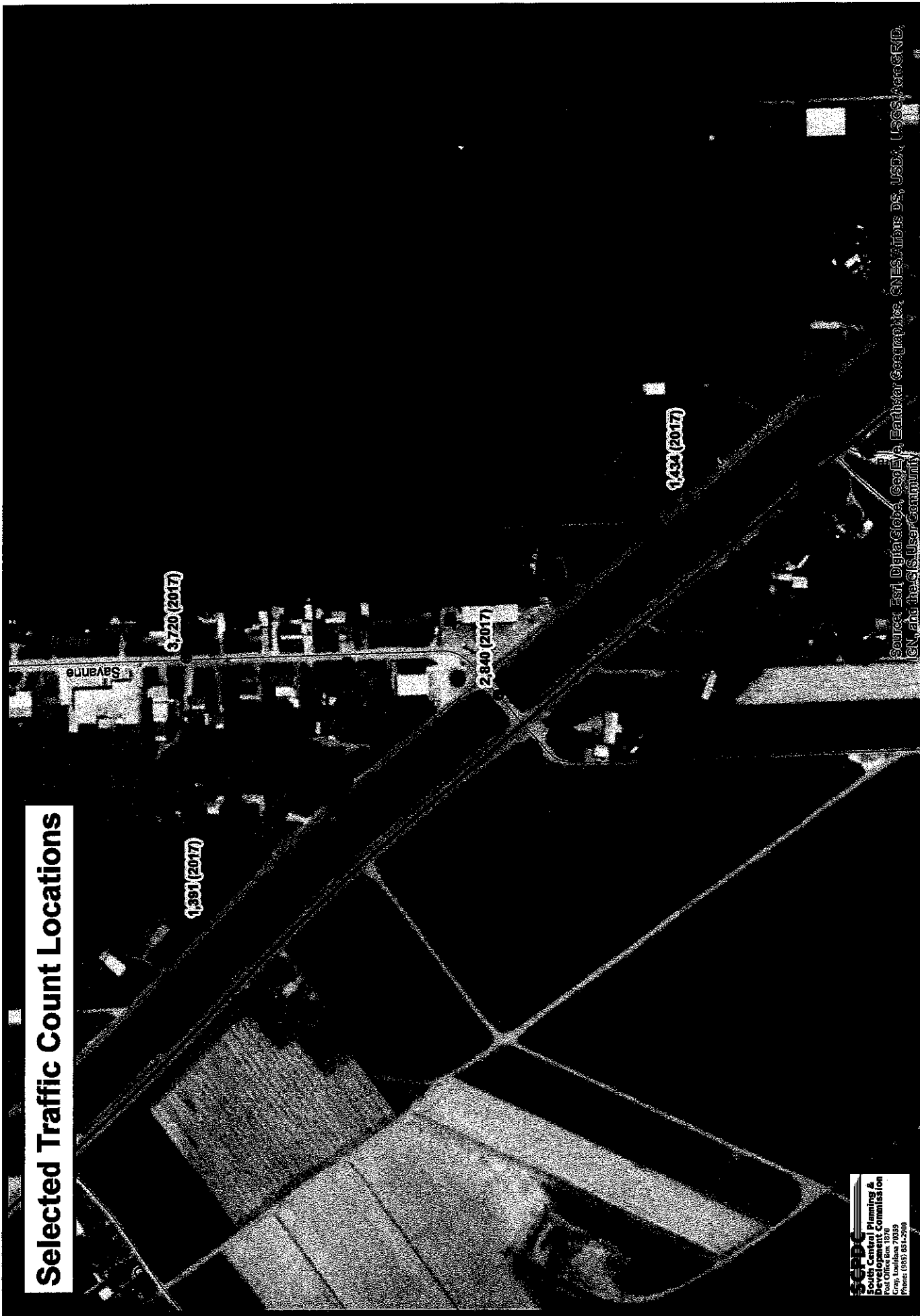
The parish should consider a future access management plan that would limit the number of entrances and exits to a commercial development located near an intersection. No internal circulation at this location leads to unpredictable in-and-out traffic and confusion for drivers along the roadway.

Funding

The parish should consider implementing the above countermeasures through DOTD's Local Road Safety Program. SCPDC staff are available to assist with program applications.

Appendix

Selected Traffic Count Locations



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

SCPD
 South Central Planning & Development Commission
 1001 Office Box 1370
 Gray, Louisiana 70559
 Phone: (504) 651-2500

User Name: josh

Date: 3/23/2017

Document Path: D:\Documents\Map and Data Requests\2017-01-30 Southdown Mandalay and Savanne Road\TrafficCountMap.mxd

South Central Planning & Development

Lane one towards Southdown Mandalay
Lane two towards LA 182
Counted by: Mitch

P.O. Box 1870
Gray, LA 70359
(985) 851-2900
<http://www.scpdc.org>

Site Code: 1029
Station ID: 1029
Savanne Road Bridge
Btw Southdown Mandalay and LA 182
Latitude: 0' 0.0000 Undefined

Start	01/23/17		01/24/17		01/25/17		01/26/17		01/27/17		Weekday Average		01/28/17		01/29/17	
Time	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12	13
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	9	11
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5	3
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7	3
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6	8
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5	12
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17	16
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	30	37
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	59	43
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	90	65
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	66	91
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	122	76
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	103	86
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	98	88
03:00	*	*	*	*	*	*	*	*	*	*	*	*	82	94	96	81
04:00	*	*	*	*	*	*	*	*	*	*	*	*	83	132	82	88
05:00	*	*	*	*	*	*	*	*	*	*	*	*	103	87	77	74
06:00	*	*	*	*	*	*	*	*	*	*	*	*	79	81	95	110
07:00	*	*	*	*	*	*	*	*	*	*	*	*	72	86	79	70
08:00	*	*	*	*	*	*	*	*	*	*	*	*	39	42	49	51
09:00	*	*	*	*	*	*	*	*	*	*	*	*	48	45	25	41
10:00	*	*	*	*	*	*	*	*	*	*	*	*	18	27	17	26
11:00	*	*	*	*	*	*	*	*	*	*	*	*	16	22	9	13
Total	0	0	0	0	0	0	0	0	0	0	0	0	562	639	1161	1112
Day	0	0	0	0	0	0	0	0	0	0	0	0	1201	2273	2273	2273
AM Peak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11:00	10:00
Vol.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	122	91
PM Peak	-	-	-	-	-	-	-	-	-	-	-	-	16:00	15:00	12:00	17:00
Vol.	-	-	-	-	-	-	-	-	-	-	-	-	103	132	103	110

South Central Planning & Development

Lane one towards Southdown Mandalay
Lane two towards LA 182
Counted by: Mitch

P.O. Box 1870
Gray, LA 70359
(985) 851-2900
<http://www.scpdc.org>

Site Code: 1029
Station ID: 1029
Savanne Road Bridge
Btw Southdown Mandalay and LA 182
Latitude: 0 0.0000 Undefined

Start Time	01/30/17	01/31/17	02/01/17	02/02/17	02/03/17	Weekday Average	02/04/17	02/05/17
	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 1	Direction 1	Direction 1
12:00 AM	6	4	1	5	2	8	3	7
01:00	1	2	1	0	1	0	2	1
02:00	4	2	1	8	0	2	2	3
03:00	2	3	4	0	6	5	4	3
04:00	19	4	23	7	16	10	18	7
05:00	31	27	32	40	28	35	31	33
06:00	74	69	84	97	101	81	86	84
07:00	103	108	114	111	107	118	112	114
08:00	81	92	88	53	98	57	64	67
09:00	56	61	63	71	64	62	67	67
10:00	71	71	67	75	90	60	74	68
11:00	99	93	116	89	98	90	101	88
12:00 PM	99	90	75	105	78	88	91	91
01:00	73	70	85	91	80	93	77	86
02:00	86	90	77	88	78	84	88	92
03:00	110	97	109	94	140	105	126	101
04:00	139	129	137	128	129	111	130	129
05:00	106	148	118	108	99	113	115	131
06:00	52	96	66	100	83	89	73	98
07:00	33	59	53	44	36	66	46	56
08:00	65	32	25	36	29	61	34	46
09:00	27	25	20	20	24	28	27	28
10:00	13	11	13	18	8	2	11	13
11:00	5	5	8	7	7	4	7	7
Total	1355	1388	1382	1412	1416	1372	1418	1420
Day	2743	2765	2781	2788	3121	1553	2838	2838
AM Peak Vol.	07:00 103	07:00 108	07:00 111	07:00 107	07:00 128	07:00 121	07:00 112	07:00 114
PM Peak Vol.	16:00 139	16:00 148	16:00 115	16:00 140	16:00 140	16:00 165	16:00 130	16:00 131
Comb. Total	2743	2765	2781	2788	3121	1553	2838	2838
ADT	ADT 2,840	AADT 2,840						

South Central Planning & Development Commission

Lane one towards Southdown Mandalay
Lane two towards LA 311
Counted by Mitch

5058 W. Main Street
Houma, LA 70360
<http://www.scpdc.org>

Site Code: 460
Savanne Road
North of Southdown Mandalay

Start Time	01/23/17	01/24/17	01/25/17	01/26/17	01/27/17	01/28/17	01/29/17	Week Average
	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2
12:00 AM	*	*	7	5	10	9	27	17
01:00	*	*	1	3	6	4	23	13
02:00	*	*	3	2	4	6	6	12
03:00	*	*	4	5	7	3	3	4
04:00	*	*	11	19	8	25	6	9
05:00	*	*	22	47	20	40	15	6
06:00	*	*	75	103	69	107	19	18
07:00	*	*	114	161	114	168	29	35
08:00	*	*	81	124	78	134	51	77
09:00	*	*	66	113	64	102	54	71
10:00	*	*	69	101	88	103	97	102
11:00	*	*	96	111	110	117	106	154
12:00 PM	*	*	114	107	124	95	126	141
01:00	*	*	119	102	107	124	150	123
02:00	*	*	130	117	143	123	126	146
03:00	*	*	123	145	154	140	133	129
04:00	*	*	158	161	171	140	112	123
05:00	*	*	231	176	203	162	119	108
06:00	174	92	161	100	141	131	99	105
07:00	72	66	78	74	97	80	60	79
08:00	44	47	63	54	87	46	61	44
09:00	33	24	48	28	60	38	35	27
10:00	32	16	43	14	46	35	20	14
11:00	23	7	16	7	21	23	20	6
Total	378	252	1833	1879	1932	1955	1497	1570
Day	630	3629	3712	3654	3887	3276	3067	3532
AM Peak	-	-	07:00	07:00	07:00	07:00	11:00	11:00
Vol.	-	-	116	161	114	168	106	154
PM Peak	18:00	18:00	17:00	17:00	17:00	17:00	13:00	14:00
Vol.	174	92	231	176	203	162	150	146
								184
								144

South Central Planning & Development Commission

Lane one towards Southdown Mandalay
Lane two towards LA 311
Counted by Mitch

5058 W. Main Street
Houma, LA 70360
<http://www.scpdc.org>

Site Code: 460
Savanne Road
North of Southdown Mandalay

Start	01/30/17		01/31/17		02/01/17		02/02/17		02/03/17		02/04/17		02/05/17		Week Average	
Time	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2
12:00 AM	10	9	*	*	*	*	*	*	*	*	*	*	*	*	10	9
01:00	2	3	*	*	*	*	*	*	*	*	*	*	*	*	2	3
02:00	0	3	*	*	*	*	*	*	*	*	*	*	*	*	0	3
03:00	6	5	*	*	*	*	*	*	*	*	*	*	*	*	6	5
04:00	4	28	*	*	*	*	*	*	*	*	*	*	*	*	4	28
05:00	17	47	*	*	*	*	*	*	*	*	*	*	*	*	17	47
06:00	53	104	*	*	*	*	*	*	*	*	*	*	*	*	53	104
07:00	118	154	*	*	*	*	*	*	*	*	*	*	*	*	118	154
08:00	93	119	*	*	*	*	*	*	*	*	*	*	*	*	93	119
09:00	80	110	*	*	*	*	*	*	*	*	*	*	*	*	80	110
10:00	72	101	*	*	*	*	*	*	*	*	*	*	*	*	72	101
11:00	119	111	*	*	*	*	*	*	*	*	*	*	*	*	119	111
12:00 PM	121	128	*	*	*	*	*	*	*	*	*	*	*	*	121	128
01:00	88	94	*	*	*	*	*	*	*	*	*	*	*	*	88	94
02:00	139	107	*	*	*	*	*	*	*	*	*	*	*	*	139	107
03:00	136	149	*	*	*	*	*	*	*	*	*	*	*	*	136	149
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	1058	1272	0	0	0	0	0	0	0	0	0	0	0	0	1058	1272
Day	2330														2330	
AM Peak	11:00	07:00	-	-	-	-	-	-	-	-	-	-	-	-	11:00	07:00
Vol.	119	154	-	-	-	-	-	-	-	-	-	-	-	-	119	154
PM Peak	14:00	15:00	-	-	-	-	-	-	-	-	-	-	-	-	14:00	15:00
Vol.	139	149	-	-	-	-	-	-	-	-	-	-	-	-	139	149

Comb. Total 2960 3629 3712 3654 3887 3276 3067 5862

ADT ADT 3,720 AADT 3,720

South Central Planning & Development

Lane one towards Gibson
Lane two towards Savanne Road
Counted by: Mitch

P.O. Box 1870
Gray, LA 70359
(985) 851-2900
<http://www.scpdc.org>

Site Code: 461
Station ID: 461
Southdown Mandalay Road
Northwest of Savanne Road
Latitude: 0' 0.0000 Undefined

Start	01/23/17		01/24/17		01/25/17		01/26/17		01/27/17		Weekday Average		01/28/17		01/29/17	
Time	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2
12:00 AM	*	*	*	*	1	2	3	0	7	6	4	3	14	9	11	4
01:00	*	*	*	*	2	0	1	0	4	2	2	1	7	3	11	4
02:00	*	*	*	*	0	0	1	1	4	3	2	1	8	0	4	3
03:00	*	*	*	*	0	0	0	4	3	1	2	3	3	2	3	1
04:00	*	*	*	*	3	13	2	6	2	11	2	10	3	6	1	1
05:00	*	*	*	*	3	16	6	22	4	15	4	18	3	14	3	5
06:00	*	*	*	*	5	38	9	42	7	35	7	38	5	12	7	5
07:00	*	*	*	*	20	67	17	87	22	78	20	77	11	18	5	16
08:00	*	*	*	*	30	57	25	52	26	48	27	52	23	37	14	25
09:00	*	*	*	*	20	37	35	34	27	42	27	38	37	39	22	31
10:00	*	*	*	*	18	26	32	38	29	33	26	32	36	55	29	54
11:00	*	*	*	*	26	21	42	32	37	33	35	29	45	48	50	41
12:00 PM	*	*	*	*	44	27	41	24	48	36	44	29	43	62	59	38
01:00	*	*	*	*	52	24	49	37	62	49	54	37	49	46	49	41
02:00	*	*	*	*	51	44	52	44	54	34	52	41	47	47	68	48
03:00	*	*	*	*	51	32	55	47	65	45	57	41	65	46	46	46
04:00	*	*	*	*	88	46	70	41	61	42	68	43	46	44	43	57
05:00	*	*	*	*	98	44	80	33	83	55	87	44	48	37	53	46
06:00	*	*	*	*	59	36	50	42	45	45	51	39	52	35	47	54
07:00	*	*	*	*	31	20	27	24	44	29	34	24	33	21	27	27
08:00	*	*	*	*	25	18	26	12	35	21	28	18	33	21	26	23
09:00	*	*	*	*	22	8	21	10	26	15	24	11	19	10	20	14
10:00	*	*	*	*	21	5	22	7	22	11	22	8	15	8	9	5
11:00	*	*	*	*	5	2	10	4	11	5	8	4	15	12	9	4
Total	0	0	162	104	653	586	676	643	728	694	684	641	661	632	616	593
Day	266		1422		1319		1325		1293		1209					
AM Peak	-	-	-	-	08:00	07:00	11:00	07:00	11:00	07:00	11:00	07:00	11:00	10:00	11:00	10:00
Vol.	-	-	-	-	30	67	42	87	37	78	35	77	45	55	50	54
PM Peak	-	-	18:00	18:00	17:00	16:00	17:00	15:00	17:00	17:00	17:00	17:00	15:00	12:00	14:00	16:00
Vol.	-	-	50	34	98	46	80	47	83	55	87	44	65	62	68	57

South Central Planning & Development

P.O. Box 1870
Gray, LA 70359
(985) 851-2900
<http://www.scpdc.org>

Lane one towards Gibson
Lane two towards Savanne Road
Counted by: Mitch

Site Code: 461
Station ID: 461
Southdown Mandalay Road
Northwest of Savanne Road
Latitude: 0 0.0000 Undefined

Start Time	01/30/17	01/31/17	02/01/17	02/02/17	02/03/17	Weekday Average	02/04/17	02/05/17
	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2
12:00 AM	2	2	0	4	5	2	6	1
01:00	1	4	1	2	0	1	1	2
02:00	0	0	0	2	2	1	2	1
03:00	1	2	4	2	3	2	5	4
04:00	3	12	8	12	3	10	1	5
05:00	6	15	7	19	5	16	1	4
06:00	11	43	10	47	7	39	8	13
07:00	18	85	20	75	8	22	12	25
08:00	28	43	30	67	21	36	15	38
09:00	31	35	30	42	36	41	32	41
10:00	31	34	32	30	25	30	37	48
11:00	37	53	49	33	44	41	36	32
12:00 PM	43	45	57	47	48	49	40	36
01:00	52	37	42	45	50	39	39	40
02:00	66	40	55	46	53	54	40	39
03:00	55	41	62	37	65	59	40	40
04:00	74	41	76	75	76	75	45	45
05:00	85	49	77	107	80	87	52	52
06:00	55	54	58	59	66	61	48	48
07:00	49	29	32	39	32	40	23	20
08:00	20	23	30	27	35	30	20	20
09:00	17	7	24	20	21	20	8	8
10:00	17	8	19	8	21	19	8	8
11:00	7	5	9	5	11	8	5	5
Total	707	707	739	714	738	738	119	182
Day	1414	1429	1372	1409	1521	1432	301	0
AM Peak	11:00	07:00	11:00	08:00	08:00	11:00	09:00	10:00
Vol.	37	85	49	44	43	41	32	48
PM Peak	17:00	18:00	17:00	17:00	17:00	17:00	-	-
Vol.	85	54	77	80	84	87	-	-
Comb. Total	1414	1695	2611	2728	2943	2757	1594	1209
ADT	ADT 1,391	ADT 1,391	ADT 1,391					

South Central Planning & Development

Lane one towards Savanne Road
Lane two towards St. Anthony Bridge
Counted by: Mitch

P.O. Box 1870
Gray, LA 70359
(985) 851-2900
<http://www.scpdc.org>

Site Code: 464
Station ID: 464
Southdown Mandalay Road
East of Savanne Road
Latitude: 0' 0.0000 Undefined

Start Time	03/06/17		03/07/17		03/08/17		03/09/17		03/10/17		Weekday Average		03/11/17		03/12/17	
	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7	10
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7	7
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4	4
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2	3
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	2
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4	2
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4	7
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12	6
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	23	8
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	35	22
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	51	19
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	45	36
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	48	30	40	43
01:00	*	*	*	*	*	*	*	*	*	*	*	*	40	30	31	27
02:00	*	*	*	*	*	*	*	*	*	*	*	*	57	41	28	33
03:00	*	*	*	*	*	*	*	*	*	*	*	*	59	47	40	33
04:00	*	*	*	*	*	*	*	*	*	*	*	*	94	57	50	40
05:00	*	*	*	*	*	*	*	*	*	*	*	*	64	37	45	46
06:00	*	*	*	*	*	*	*	*	*	*	*	*	67	50	39	40
07:00	*	*	*	*	*	*	*	*	*	*	*	*	66	45	28	28
08:00	*	*	*	*	*	*	*	*	*	*	*	*	41	27	17	19
09:00	*	*	*	*	*	*	*	*	*	*	*	*	38	21	10	13
10:00	*	*	*	*	*	*	*	*	*	*	*	*	10	19	8	14
11:00	*	*	*	*	*	*	*	*	*	*	*	*	13	10	8	6
Total	0	0	0	0	0	0	0	0	0	0	0	0	608	510	530	468
Day	0	0	0	0	0	0	0	0	0	0	0	0	1118	998	998	998
AM Peak	-	-	-	-	-	-	-	-	-	-	-	-	11:00	11:00	10:00	11:00
Vol.	-	-	-	-	-	-	-	-	-	-	-	-	48	30	51	36
PM Peak	-	-	-	-	-	-	-	-	-	-	-	-	15:00	16:00	16:00	17:00
Vol.	-	-	-	-	-	-	-	-	-	-	-	-	94	96	50	46

South Central Planning & Development

Lane one towards Savanne Road
Lane two towards St. Anthony Bridge
Counted by: Mitch

P.O. Box 1870
Gray, LA 70359
(985) 851-2900
<http://www.scpdc.org>

Site Code: 464
Station ID: 464
Southdown Mandalay Road
East of Savanne Road
Latitude: 0' 0.0000 Undefined

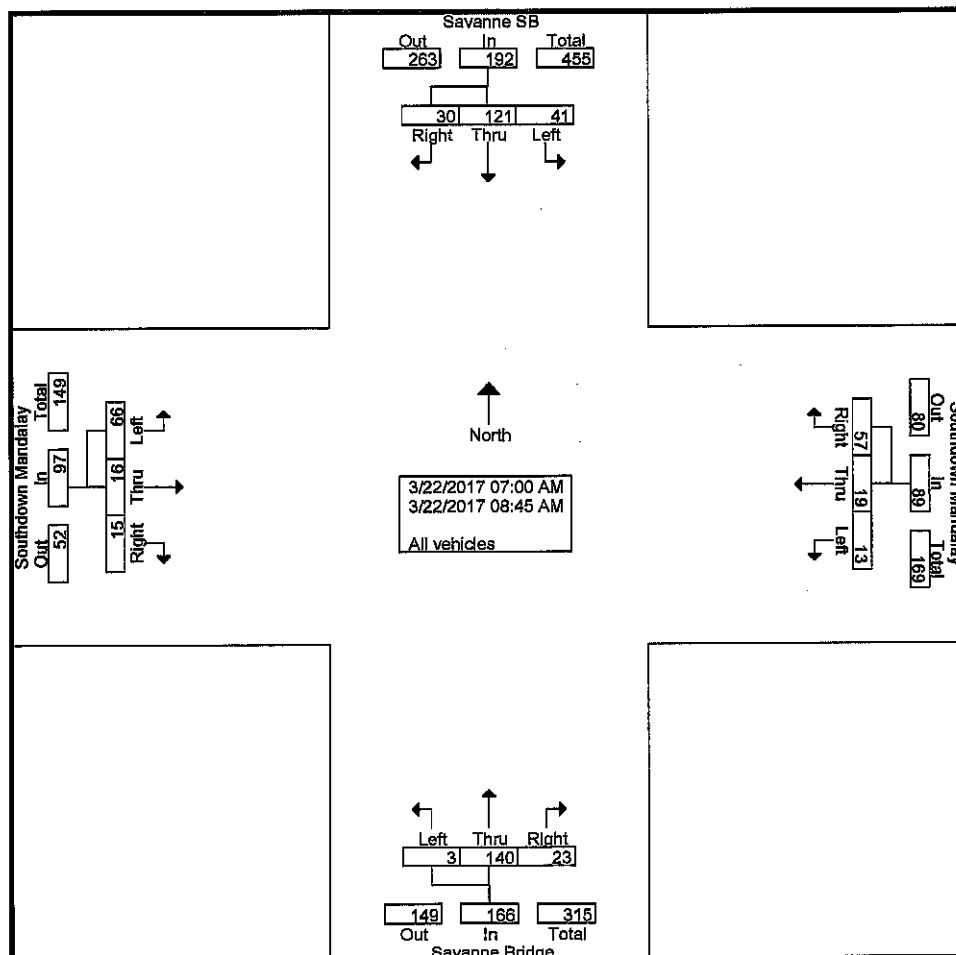
Start Time	03/13/17	03/14/17	03/15/17	03/16/17	03/17/17	Weekday Average	03/18/17	03/19/17
	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2	Direction 1	Direction 2
12:00 AM	7	10	3	2	4	3	5	4
01:00	2	1	1	2	2	4	1	2
02:00	1	6	0	2	0	3	2	1
03:00	1	0	5	1	0	4	1	3
04:00	5	2	4	1	1	3	1	5
05:00	16	10	15	13	11	8	11	13
06:00	30	19	27	18	16	27	21	28
07:00	47	30	54	32	41	55	37	48
08:00	33	29	40	22	28	29	33	39
09:00	22	26	36	26	32	43	34	29
10:00	33	22	31	24	37	39	33	30
11:00	31	24	41	39	44	52	38	41
12:00 PM	38	27	48	32	35	53	56	43
01:00	45	40	43	41	38	46	51	42
02:00	43	31	43	33	45	55	46	37
03:00	42	52	38	34	42	62	54	51
04:00	76	70	91	60	66	77	75	65
05:00	68	68	92	100	82	88	81	81
06:00	46	54	91	87	60	93	0	59
07:00	52	31	47	56	39	67	43	48
08:00	22	24	61	24	26	29	53	26
09:00	8	18	12	16	7	23	12	20
10:00	5	6	6	17	4	9	12	11
11:00	2	6	6	7	2	3	2	6
Total	675	608	835	706	742	667	833	763
Day	1281		1541		1409		1596	
AM Peak	07:00	07:00	07:00	11:00	07:00	07:00	08:00	07:00
Vol.	47	30	54	39	46	42	47	41
PM Peak	16:00	16:00	17:00	17:00	17:00	17:00	18:00	17:00
Vol.	76	70	92	100	92	82	92	93
Comb. Total	1281		1541		1409		1596	
ADT	ADT 1,457		ADT 1,457		ADT 1,457		ADT 1,457	

1281 1541 1409 1596 1180 1446 1118 998

Southdown Mandalay at Savanne Road

Groups Printed- All vehicles

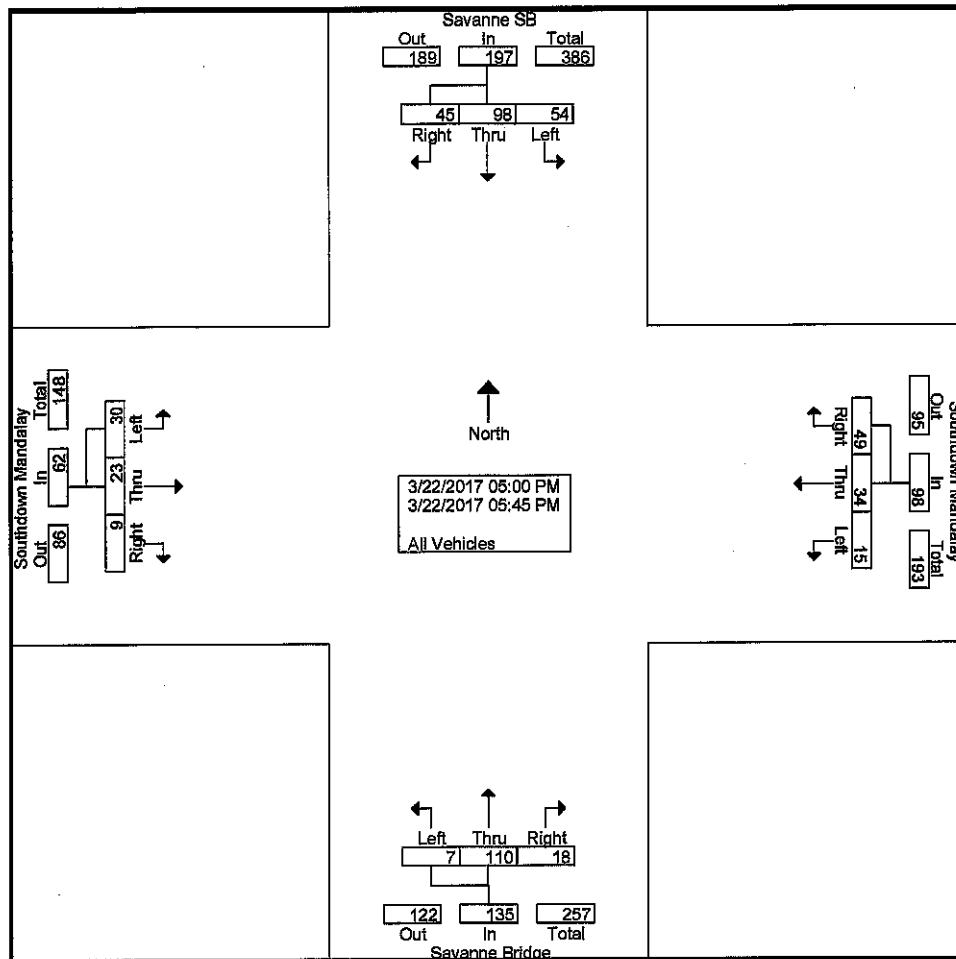
	Savanne SB From North				Southdown Mandalay From East				Savanne Bridge From South				Southdown Mandalay From West				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
07:00 AM	5	18	7	30	12	1	0	13	3	24	0	27	3	2	8	13	83
07:15 AM	3	15	6	24	4	1	2	7	2	22	0	24	2	3	14	19	74
07:30 AM	5	21	5	31	9	2	4	15	2	15	0	17	5	1	11	17	80
07:45 AM	4	15	8	27	11	1	1	13	8	20	0	28	1	1	8	10	78
Total	17	69	26	112	36	5	7	48	15	81	0	96	11	7	41	59	315
08:00 AM	3	14	5	22	4	1	1	6	2	13	2	17	1	1	5	7	52
08:15 AM	4	10	1	15	8	3	0	11	2	16	0	18	0	5	11	16	60
08:30 AM	1	12	5	18	4	5	2	11	2	18	0	20	1	2	3	6	55
08:45 AM	5	16	4	25	5	5	3	13	2	12	1	15	2	1	6	9	62
Total	13	52	15	80	21	14	6	41	8	59	3	70	4	9	25	38	229
Grand Total	30	121	41	192	57	19	13	89	23	140	3	166	15	16	66	97	544
Apprch %	15.6	63	21.4		64	21.3	14.6		13.9	84.3	1.8		15.5	16.5	68		
Total %	5.5	22.2	7.5	35.3	10.5	3.5	2.4	16.4	4.2	25.7	0.6	30.5	2.8	2.9	12.1	17.8	



Southdown Mandalay at Savanne Road

Groups Printed- All Vehicles

	Savanne SB From North				Southdown Mandalay From East				Savanne Bridge From South				Southdown Mandalay From West				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
05:00 PM	10	16	12	38	12	11	3	26	7	29	1	37	1	6	7	14	115
05:15 PM	14	26	8	48	14	6	5	25	3	35	3	41	4	6	10	20	134
05:30 PM	12	31	10	53	8	10	5	23	8	30	2	40	2	7	7	16	132
05:45 PM	9	25	24	58	15	7	2	24	0	16	1	17	2	4	6	12	111
Total	45	98	54	197	49	34	15	98	18	110	7	135	9	23	30	62	492
Grand Total	45	98	54	197	49	34	15	98	18	110	7	135	9	23	30	62	492
Apprch %	22.8	49.7	27.4		50	34.7	15.3		13.3	81.5	5.2		14.5	37.1	48.4		
Total %	9.1	19.9	11	40	10	6.9	3	19.9	3.7	22.4	1.4	27.4	1.8	4.7	6.1	12.6	



South Central Planning and Development

P.O. Box 1870

Gray, LA 70359

Multi-Way Stop Warrant Report

Major Street Approaches

Northbound: Savanne Road

Total Approach Volume: 1,361

85% Speed < 40 MPH.

Southbound: Savanne Road

Total Approach Volume: 1,794

85% Speed < 40 MPH.

Minor Street Approaches

Eastbound: Southdown Mandalay Road

Total Approach Volume: 661

Westbound: Southdown Mandalay Road

Total Approach Volume: 836

Warrant Summary

Criteria A - Interim Measure Not Evaluated
If traffic signals are justified, stop signs can be installed as an interim measure.

Criteria B - Crash Experience Satisfied
Number of crashes (6) meets the minimum required (5).

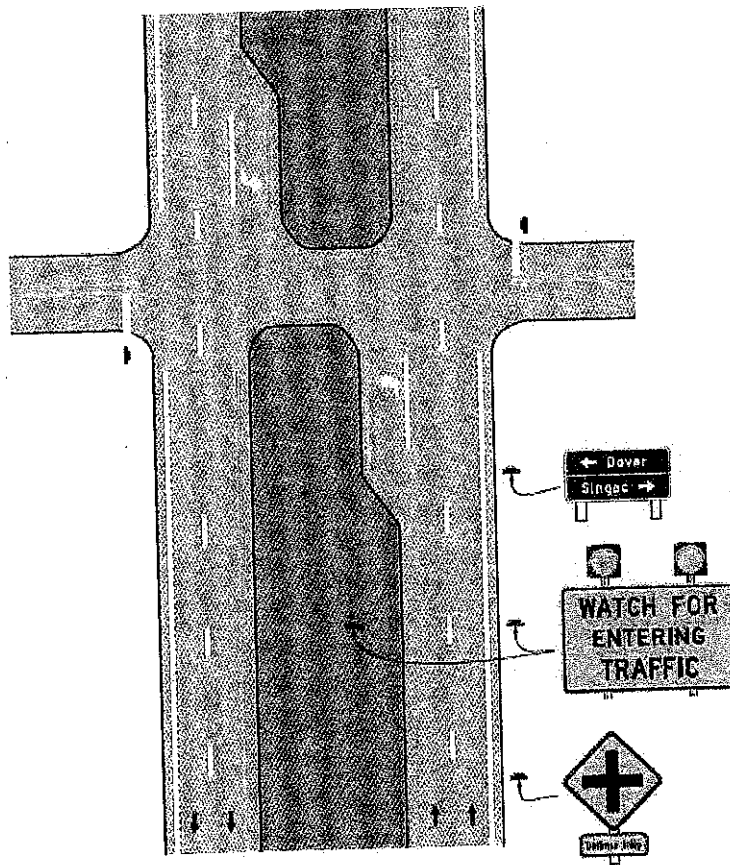
Criteria C - Minimum Volumes and Delays Not Satisfied
Delay data not evaluated
Average of 8 highest hours does not meet volume criteria.

Criteria D - 80% of Volumes, Delays, and Crashes Not Satisfied
Delay data not evaluated
Number of crashes (6) meets the minimum required (4).
Average of 8 highest hours does not meet volume criteria.

Analysis of 8-Hour Volume Warrants:

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major	Crit C Minor	Meets?	Major	Crit D Minor	Meets?
17:00 - 18:00	160	108.6	332	234.4	300-No	200-Yes	Minor	240-No	160-Yes	Minor
16:00 - 17:00	144		294							
15:00 - 16:00	74		248							
07:00 - 08:00	107		208							
11:00 - 12:00	73		230							
18:00 - 19:00	139		163							
13:00 - 14:00	88		207							
14:00 - 15:00	84		193							
12:00 - 13:00	98		166							
10:00 - 11:00	74		184							
06:00 - 07:00	60		181							
09:00 - 10:00	72		164							
08:00 - 09:00	79		150							
19:00 - 20:00	65		124							
20:00 - 21:00	77		64							
05:00 - 06:00	35		75							
21:00 - 22:00	18		46							
04:00 - 05:00	12		46							
22:00 - 23:00	10		35							
23:00 - 00:00	12		12							
03:00 - 04:00	9		14							
00:00 - 01:00	3		7							
02:00 - 03:00	3		5							
01:00 - 02:00	1		7							

Install Advanced Intersection Warning Signs



Advanced intersection warning signs can help alert drivers to the presence of an intersection ahead. Signs can be placed with sufficient distance prior to the intersection to allow drivers to perceive and react. They can also be installed on both sides of the roadway to solicit greater awareness.

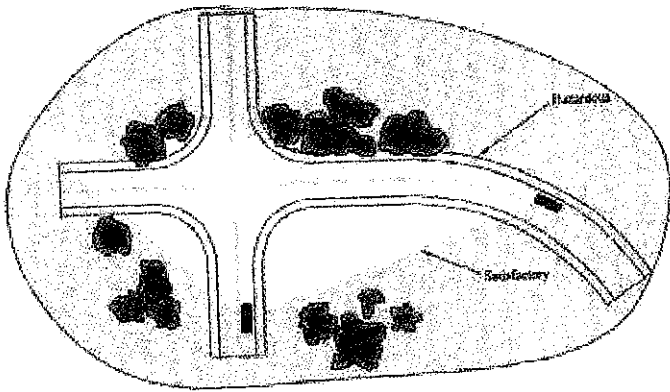
Where to Use: Advanced intersection warning signs are to be applied predominantly on single through lane, high-crash, stop-controlled State intersections in both rural and urban areas. They may also be applied on dual through lane, high-crash, stop-controlled intersections with lower traffic volumes (less than about 25,000 average annual daily traffic (AADT)) where the use of J-treatments is not appropriate and the frequency of acceptable gaps for entering traffic is such that long waiting and higher risk taking are present at the intersection.

Safety Treatment	Initial Implementation Cost	NCHRP 500 Performance Rating
Install Advanced Intersection Warning Signs	\$0 to \$5,000	Proven

Top Recommended Resources:

1. FHWA, *Example Intersection Safety Implementation Plan*, 2009.
2. FHWA, *Stop-Controlled Intersection Safety: Through Route Activated Warning Systems*, February 2011. Available at: <http://safety.fhwa.dot.gov/intersection/resources/fhwas11015/traws.pdf>.

Improve Sight Distance within Sight Triangle



By removing sight distance restrictions (e.g., vegetation, parked vehicles, signs, buildings) from the sight triangles at stop or yield-controlled intersection approaches, drivers will be able see approaching vehicles on the main line without obstruction and therefore make better decisions about entering the intersection safely.

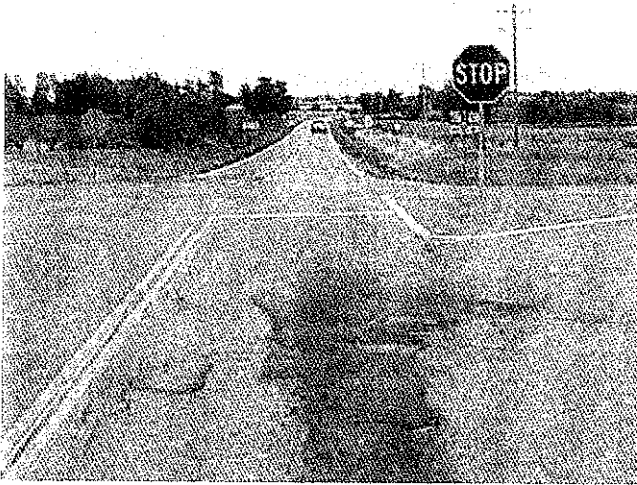
Where to Use: This treatment may be used at unsignalized intersections with restricted sight distance and patterns of crashes related to lack of sight distance where sight distance can be improved by clearing roadside obstructions without major construction.

Improve Sight Distance within Sight Triangle - Initial Investment: \$4,500 - Cost of Maintenance: \$1,000 - Frequency of Maintenance: 5 years	Benefit-Cost Ratio	NCHRP 500 Performance Rating	Crash Modification Factor (CMF)
Lower Volume 4-Way Intersections	157.3	Proven	0.44–0.89
Higher Volume 4-Way Intersections	547.8	Proven	0.44–0.89
Lower Volume 3-Leg Intersections	66.9	Proven	0.44–0.89
Higher Volume 3-Leg Intersections	345.7	Proven	0.44–0.89

Top Recommended Resource:

1. FHWA, *Intersection Safety: A Manual for Local Rural Road Owners*, January 2011. Available at: http://safety.fhwa.dot.gov/local_rural/training/fhwasa1108/fhwasa1108.pdf.

Upgrade to Larger Stop Signs



A high number of crashes relate to the driver's inability or failure to see the Stop sign at stop-controlled intersections. To improve recognition of the signs, larger Stop signs can be installed. Sizes can range from 30 inches, to 36 inches, to 48 inches and larger, if needed.

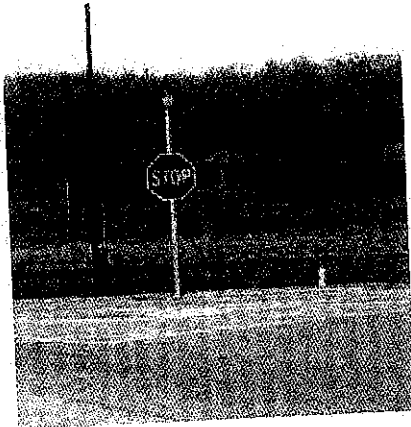
Where to Use: While roadway classification and speed can help determine proper Stop sign size, larger sizes may be used when crash types indicate that Stop sign visibility may be an issue.

Safety Treatment	Initial Implementation Cost	NCHRP 500 Performance Rating
Upgrade to Larger Stop Signs	\$0 to \$5,000	Proven

Top Recommended Resource:

1. FHWA, *Stop Sign-Controlled Intersections: Enhanced Signs and Markings—A Winston-Salem Success Story*, November 2009. Available at: <http://safety.fhwa.dot.gov/intersection/resources/casestudies/fhwasa09010/>.

Provide Flashing Beacons at Intersection Approaches



Flashing beacons provide a visible signal indicating the presence of an intersection and can be very effective in rural areas where there may be long stretches between intersections. They may also improve safety at locations where nighttime visibility of intersections is an issue.

Where to Use: Flashing beacons can be installed at unsignalized intersections with patterns of right-angle crashes related to lack of driver awareness of the intersection on an uncontrolled approach and lack of driver awareness of the Stop sign on a stop-controlled approach. The beacons can be installed either atop Stop signs or Advance Intersection Warning Signs, where applicable.

Provide Flashing Beacons at Intersection Approaches	Benefit-Cost Ratio	NCHRP 500 Performance Rating	Crash Modification Factor (CMF)
- Initial Investment: \$25,000 - Cost of Maintenance: \$1,000 - Frequency of Maintenance: 2 years			
Lower Volume 4-Way Intersections	16.3	Proven	0.85
Higher Volume 4-Way Intersections	56.8	Proven	0.85
Lower Volume 3-Leg Intersections	6.8	Proven	0.85
Higher Volume 3-Leg Intersections	35.8	Proven	0.85

Top Recommended Resource:

1. FHWA, *Intersection Safety: A Manual for Local Rural Road Owners*, "Chapter 4. Countermeasures," January 2011. Available at: http://safety.fhwa.dot.gov/local_rural/training/fhwasal108/ch4.cfm.

[illegible]

1 inch = 91 feet



DISCLAIMER: Terrebonne Parish makes no warranty as to the reliability or accuracy of the base maps, their associated data tables or the original data collection process and is not responsible for the inaccuracies that could have occurred due to errors in the original data input or subsequent update process. User assumes all responsibility for verifying accuracy of data for any intended use.



Monday, May 22, 2017

Item Title:

Amendment 1 for Afton, Ardoyne and Naquin Sewer Lift Stations

Item Summary:

RESOLUTION: Providing approval of Amendment No. 1 to the Engineering Agreement for Parish Project No.16-SEW-13, Renovations of Afton, Ardoyne and Naquin Sewer Lift Stations, Terrebonne Parish, Louisiana.

ATTACHMENTS:

Description	Upload Date	Type
Executive Summary	5/18/2017	Executive Summary
Resolution	5/18/2017	Resolution
Backup Material	5/18/2017	Backup Material



EXECUTIVE SUMMARY

(REQUIRED FOR ALL SUBMISSIONS)

PROJECT TITLE
16-SEW-13 Renovations of Afton, Ardoyne and Naquin Sewer Lift Stations

PROJECT SUMMARY (200 WORDS OR LESS)

To provide additional engineering services for the Renovations of Afton, Ardoyne and Naquin Sewer Lift Stations due to the relocation of the Naquin Sewer Lift Station.

PROJECT PURPOSE & BENEFITS (150 WORDS OR LESS)

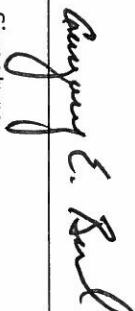
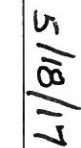
The purpose of this amendment is to provide additional engineering to relocate the Naquin Sewer Lift Station.

TOTAL EXPENDITURE

AMOUNT SHOWN ABOVE IS: (CIRCLE ONE)	
\$61,991.00	
ACTUAL	ESTIMATED
IS PROJECT ALREADY BUDGETED: (CIRCLE ONE)	
N/A NO YES	IF YES AMOUNT BUDGETED: \$61,991.00

COUNCIL DISTRICT(S) IMPACTED (CIRCLE ONE)

PARISHWIDE	1	2	3	4	5	6	7	8	9
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Signature	Date
	

OFFERED BY:
SECONDED BY:

RESOLUTION

A resolution providing approval of Amendment No. 1 to the Engineering Agreement for Parish Project No.16-SEW-13, Renovations of Afton, Ardoyne and Naquin Sewer Lift Stations, Terrebonne Parish, Louisiana.

WHEREAS, the Terrebonne Parish Consolidated Government did enter into an original engineering agreement with GIS Engineering, LLC dated May 23, 2016, recordation number 1507692, for the Renovations of Afton, Ardoyne and Naquin Sewer Lift Stations Project identified as Parish Project 16-SEW-13, and

WHEREAS, the Engineering Agreement between OWNER and ENGINEER provides for certain limitations for Basic and Additional Services, and

WHEREAS, the Naquin Lift Station is in need of a larger location, and

WHEREAS, Amendment No. 1 proposes to increase the fees to include the relocation of the Naquin Lift Station, and

WHEREAS, this above work will increase the Basic Services by \$41,800.00 and Additional Services by \$20,191.00, and

NOW, THEREFORE BE IT RESOLVED that the Terrebonne Parish Council, on behalf of the Terrebonne Parish Consolidated Government, does hereby approve this Amendment No. 1 to the Engineering Agreement for an overall increase of \$61,991.00 and authorizes Parish President Gordon E. Dove to execute this Amendment No. 1 to the Engineering Agreement for the Renovations of Afton, Ardoyne and Naquin Sewer Lift Stations Project, Parish Project No. 16-SEW-13, with GIS Engineering, LLC, and

BE IT FURTHER RESOLVED that a certified copy of the resolution be forwarded to the Engineer, GIS Engineering, LLC

THERE WAS RECORDED:

YEAS:

NAYS:

NOT VOTING:

ABSENT

And the Chairman declared the resolution adopted on this _____ day of _____, 2017.

* * * * *

I, VENITA H. CHAUVIN, Clerk of the Terrebonne Parish Council, Houma, Louisiana, do hereby certify that the foregoing is a true and correct copy of the RESOLUTION adopted by the Terrebonne Parish Council on _____, 2017, at which meeting a quorum was present.

GIVEN UNDER MY OFFICIAL SIGNATURE AND SEAL OF OFFICE THIS _____ DAY OF _____, 2017.

VENITA H. CHAUVIN, CLERK
TERREBONNE PARISH COUNCIL

**AMENDMENT NO.1
TO
ENGINEERING AGREEMENT**

THIS AMENDMENT NO. 1, hereafter sometimes referred to as "AGREEMENT", made and entered into this _____ day of _____, 2017;

BY AND BETWEEN:

TERREBONNE PARISH CONSOLIDATED GOVERNMENT, (TPCG), a political subdivision of the State of Louisiana, represented herein by its duly authorized Parish President, Gordon E. Dove (hereafter sometimes referred to as "OWNER"), and

GIS Engineering, LLC., represented herein by Dustin M. Malbrough, P.E., duly authorized Division Manager (hereafter sometimes referred to as "ENGINEER");

is a revision pursuant to Section 5.1.1 (Basic Services) and Section 5.1.2 (Additional Services) to the **ENGINEERING AGREEMENT** dated May 23, 2016 for professional engineering services between the OWNER and ENGINEER.

WHEREAS, the Terrebonne Parish Consolidated Government did enter into an original engineering agreement with **GIS Engineering, LLC** dated May 23, 2016, for the **Renovations of Afton, Ardoyne and Naquin Sewer Lift Stations** identified as **Parish Project No. 16-SEW-13**, and

WHEREAS, the Engineering Agreement between OWNER and ENGINEER provides for certain limitations for Basic and Additional Services, and

WHEREAS, the Naquin Lift Station is in need of a larger location, and

WHEREAS, Amendment No. 1 proposes to increase the fees to include the relocation of the Naquin Lift Station, and

WHEREAS, this above work will increase the Basic Services by \$41,800.00 and Additional Services by \$20,191.00, and

NOW THEREFORE, be it understood and agreed by the parties hereto to amend the "Agreement" as follows:

Amend Section 5, Paragraph 5.1.1, to read as follows:

- 5.1.1 For Basic Services. OWNER shall pay ENGINEER for Basic Services rendered under Section 1 (as amended and supplemented by Exhibit "A", "Further Description of Basic Engineering Services and Related Matters") as follows:

Basic Services

\$104,500.00

Section 5, Paragraph 5.1.2.1, to reads as follows:

- 5.1.2.1 General. For Additional Services rendered under Paragraphs 2.1.1 through 2.1.17, inclusive (except services covered by Paragraph 2.1.7 and services as a consultant or witness under 2.1.16), on the basis of Exhibit "D", **Professional Services Rate Schedule –2016**. At this time, the following additional services are anticipated and the Estimated Costs shown below are recommended for budgetary considerations.

<u>Additional Services</u>		<u>Estimated Cost</u>
2.1.2	Measuring Existing Conditions	\$ 3,000.00
2.1.9	Field Surveys	\$ 9,410.00
2.1.12	Record Drawings	\$ 3,000.00
2.1.14	O & M Manuals	<u>\$ 1,500.00</u>
Total		\$ 16,910.00

Section 5, Paragraph 5.1.2.4, to reads as follows:

- 5.1.2.4 Resident Project Services. For resident services during construction furnished under Paragraph 2.2.1, on the basis of Exhibit "D" for services rendered by principals and employees assigned to field offices in connection with resident project representation with a Limitation of Cost of **\$25,750.00**.

Section 5, Paragraph 5.1.3, to reads as follows:

For Reimbursable Expenses. In addition to payments provided for in Paragraphs 5.1.1 and 5.1.2, OWNER shall pay ENGINEER the actual costs of all Reimbursable Expenses incurred in connection with all Basic and Additional Services with a Limitation of Cost of \$ **9,531.00**

Section 5, Paragraph 5.1.5, to reads as follows:

- 5.1.5 The estimated cost of Paragraphs 5.1.2, 5.1.3, and 5.1.4, shall have a combined Limitations of Cost in the amount of **\$52,191.00**, which shall not be exceeded without the issuance of a formal change order authorized by the Terrebonne Parish Consolidated Government through its duly authorized President.

NOW THEREFORE, be it understood and agreed by the parties hereto amend the contract as follows:

IN WITNESS WHEREOF, the parties hereto have affixed their legal hands on this _____ day of _____, 2017.

OWNER:
TERREBONNE PARISH
CONSOLIDATED GOVERNMENT
HOUMA, LOUISIANA

ENGINEER:
GIS ENGINEERING, LLC
HOUMA, LOUISIANA

BY: _____
Gordon E. Dove
Parish President

BY: _____
Dustin M. Malbrough, P.E,
Division Manager

WITNESS

WITNESS

WITNESS

WITNESS



ENGINEERING LLC

Coastal Design & Infrastructure

2503 Petroleum Drive | Suite 110
Houma, LA 70363
P: (985) 219-1000 | F: (985) 475-7014
www.gisyeng.com

May 4, 2017

Terrebonne Parish Consolidated Government
Public Works Office
1860 Grand Caillou Road
Houma, Louisiana 70363

Attention: Mr. Gregory E. Bush, Pollution Control Administrator
Subject: Amendment No. 1 Proposal
Reference: Sewer Lift Station Renovation Project – Naquin Renovation/Upgrade

Mr. Bush:

As per Terrebonne Parish Consolidated Government's (TPCG) request, GIS Engineering, LLC (GIS) is pleased to submit this Amendment No. 1 proposal to continue providing Professional Engineering Services to the TPCG for services to be completed on the above referenced project.

PROPOSED COST

GIS proposes to provide Basic Services on a Lump Sum basis and Additional Services on a Time & Material basis as outlined below and in Attachment 1. *(LS fees were derived using the standard curve formula and based upon the most recent opinion of probable construction cost estimate generated for Naquin St. location)*

	<u>Orig. Contract</u>	<u>Naquin Amend. No. 1</u>	<u>Amended Contract Thru Construction</u>
BASIC SERVICES			
Study & Report Phase	\$ 6,285.00		\$ 6,285.00
Preliminary Design Phase	\$ 9,430.00	\$ 4,300.00	\$ 13,730.00
Final Design Phase	\$ 28,285.00	\$ 25,500.00	\$ 53,785.00
Bidding & Negotiations Phase	\$ 3,200.00	\$ 2,500.00	\$ 5,700.00
Construction Admin Phase	\$ 15,500.00	\$ 9,500.00	\$ 25,000.00
B-S Total	\$ 62,700.00	\$ 41,800.00	\$ 104,500.00
ADDITIONAL SERVICES			
Existing Conditions	\$ 3,000.00		\$ 3,000.00
Engineering Surveys	\$ 7,500.00	\$ 1,910	\$ 9,410.00
Resident Project Representation	\$ 16,000.00	\$ 9,750.00*	\$ 25,750.00
O&M Manual	\$ 1,500.00		\$ 1,500.00
As-Built Drawings	\$ 1,500.00	\$ 1,500.00	\$ 3,000.00
Other Direct & Reimbursable Expenses	\$ 2,500.00	\$ 7,031.00	\$ 9,531.00
A-S Total	\$ 32,000.00	\$ 20,191.00	\$ 52,191.00
TOTAL ENGINEERING SERVICES	\$ 94,700.00	\$ 61,991.00	\$ 156,691.00

*Based on a 90 Day Construction Contract

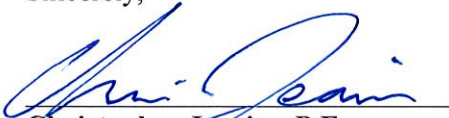
*Based on 1 Part Time Owner Project Rep @ approximately 10 hrs per week

CONTRACT AND TERMS

By submitting this proposal, GIS affirms that we are willing to continue performing our professional engineering services in accordance with the terms and conditions of our existing contract with TPCG, dated May 23, 2016.

We appreciate the opportunity to continue working with you on these important drainage projects. If you have any questions or require any additional information, please contact me at 985-219-1000.

Sincerely,

A handwritten signature in blue ink, appearing to read "Chris Jeanice", is written over a horizontal line.

Christopher Jeanice, P.E.

Project Manager

GIS Engineering, LLC

CJJ: jfm

Attachment

Coastal Design & Infrastructure.
2503 Petroleum Drive | Suite 110
Houma, LA 70363
O: (985) 219-1000 | F: (985) 475-7014



GIS Project No.:	39130-1012 and 39130-1013		
Client:	Terrebonne Parish Consolidated Government		
Project Name:	Sewer Lift Station Renovation		
Project Location:	Terrebonne Parish		
Project Services:	Planning, Engineering, Design, Construction Administration		
Project Type:	Basic & Additional Services		

ENGINEERING SERVICES - COST ESTIMATE

SCOPE ITEM	DESCRIPTION	Total
39130-1032	BASIC SERVICES (B-S)	
A	Study and Report Phase	\$ -
B	Preliminary Design Phase	\$ 4,300.00
C	Final Design Phase	\$ 25,500.00
D	Advertising and Bidding Phase	\$ 2,500.00
E	Construction Phase	\$ 9,500.00
TOTAL B-S		\$ 41,800.00

39130-1033	ADDITIONAL SERVICES (A-S)	
0600	Engineering Surveys	\$ 1,910.00
0700	Construction Oversight & Reporting	\$ 9,750.00
0800	As-Builts	\$ 1,500.00
0900		\$ -
1000		\$ -
1100	ODCs, Reimbursable Expenses & Subcontractors	\$ 7,031.00
TOTAL A-S		\$ 20,191.00
ENGINEERING TOTAL		\$ 61,991.00

GIS Project No.:	39130-1012 and 39130-1013
Client:	Terrebonne Parish Consolidated Government
Project Name:	Sewer Lift Station Renovation
Project Location:	Terrebonne Parish
Project Services:	Planning, Engineering, Design, Construction Administration
Project Type:	Additional Services

Coastal Design & Infrastructure
2503 Petroleum Drive | Suite 110
Houma, LA 70363
O: (985) 219-1000 | F: (985) 475-7014



2.1 ADDITIONAL SERVICES ESTIMATE

[illegible]

2.2 REIMBURSABLE EXPENSES

2.2 REIMBURSABLE EXPENSES													
SCOPE ITEM	DESCRIPTION	Cumulative Rate	Charged By	Testing Lab Subcontractor	Dive Inspection Subcontractor	Dive Inspection Subcontractor	GPS (days)	Boat (days)	VEHICLE (days)	CAMERA (days)	REPRODUCTION	ODC'S	TOTAL
2.2.1	Subcontractors												
	Testing Lab Subcontractor	1 \$ -	LS	\$ -									\$ -
	Dive Inspection Subcontractor	1 \$ -	LS		\$ -								\$ -
	Sediment Analysis Subcontractor	1 \$ -	LS			\$ -							\$ -
			Sub-Total Cost	\$ -	\$ -	\$ -	\$ -	\$ 450.00	\$ -	\$ -	\$ -	\$ -	\$ -
2.2.2	Other Direct Cost												
	Reproduction	1 \$ -	LS									\$ -	\$ -
	Vehicle (During Construction)	\$ 70.00	Day						65			\$ 4,550.00	\$ 4,615.00
	Camera	\$ 20.00	Day							65		\$ 1,300.00	\$ 1,365.00
			Sub-Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 65.00	\$ 65.00	\$ -	\$ 5,850.00	\$ 5,980.00
2.2.3	Survey Direct Cost and Material												
	Survey GPS (RTK)	\$ 500.00	Day				1					\$ 500.00	\$ 501.00
	Survey Hypack Data Collection & Nav.	\$ 300.00	Day									\$ -	\$ -
	Survey Boats (Non motored)	\$ 30.00	Day									\$ -	\$ -
	Survey Boats (Motor)	\$ 500.00	Day									\$ -	\$ -
	Survey Materials	\$ 550.00	LS									\$ 550.00	\$ 550.00
	Survey Vehicle	\$ 70.00	Day									\$ -	\$ -
			Sub-Total Cost	\$ -	\$ -	\$ -	\$ 1.00	\$ -	\$ -	\$ -	\$ -	\$ 1,050.00	\$ 1,051.00
												Total Cost	\$ 7,031.00

TOTAL ADDITIONAL SERVICES ESTIMATE SUMMARY		1	2	3	4	5	6		
SCOPE ITEM	DESCRIPTION	Engineering Surveys	Construction Oversight & Reporting	As-Built Drawings			REIMBURSABLE EXPENSES	TOTAL	
		Sub-Total Cost	\$ 1,910.00	\$ 9,750.00	\$ 1,500.00	\$ -	\$ -	\$ 7,031.00	\$ 20,191.00

SUMMARY OF ENGINEERING SERVICES	
BASIC SERVICES	\$ -
ADDITIONAL SERVICES	\$ 13,160.00
REIMBURSIBLE SERVICES	\$ 7,031.00
TOTAL ENGINEERING SERVICES	\$ 20,191.00



Monday, May 22, 2017

Item Title:

Substantial Completion for Coteau Dredging

Item Summary:

RESOLUTION: Providing for the acceptance of work performed by Synagro South, LLC., in accordance with the Certificate of Substantial Completion for Parish Project 16-SEW-14, East Coteau/Bayou Blue Sewer Holding Basin Dredging Project, Terrebonne Parish, Louisiana.

ATTACHMENTS:

Description	Upload Date	Type
Executive Summary	5/18/2017	Executive Summary
Resolution	5/18/2017	Resolution
Backup Material	5/18/2017	Backup Material



EXECUTIVE SUMMARY

(REQUIRED FOR ALL SUBMISSIONS)

PROJECT TITLE

Project No. 16-SEW-14 East Coteau /Bayou Blue Sewer Holding Basin Dredging Project

PROJECT SUMMARY (200 WORDS OR LESS)

The purpose of this project was to dredge the holding basin.

PROJECT PURPOSE & BENEFITS (150 WORDS OR LESS)

This certificate of Substantial Completion applies to all work that has been inspected and that the work is substantially completed in accordance with the contract documents.

TOTAL EXPENDITURE

N/A

AMOUNT SHOWN ABOVE IS: (CIRCLE ONE)

ACTUAL

ESTIMATED

IS PROJECT ALREADY BUDGETED: (CIRCLE ONE)

N/A	NO	<u>YES</u>	IF YES AMOUNT BUDGETED:	\$340,000.00
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COUNCIL DISTRICT(S) IMPACTED (CIRCLE ONE)

PARISHWIDE	1	2	3	4	5	6	7	8	9
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Gregory E. Burt 5/18/17
Signature Date

OFFERED BY:
SECONDED BY:

RESOLUTION

A resolution providing for the acceptance of work performed by Synagro South, LLC., in accordance with the Certificate of Substantial Completion for Parish Project 16-SEW-14, East Coteau/Bayou Blue Sewer Holding Basin Dredging Project, Terrebonne Parish, Louisiana.

WHEREAS, the Terrebonne Parish Consolidated Government entered into a contract dated March 6, 2017, with Synagro South, LLC. Recordation Number 1528971, for Parish Project No. 16-SEW-14, Coteau/Bayou Blue Sewer Holding Basin Dredging Project, Terrebonne Parish, Louisiana, and

WHEREAS, the work performed has been inspected by authorized representatives of the Owner, Engineer, and Contractor and found to be substantially complete, and

WHEREAS, the Engineer for this project, GIS Engineering, LLC., recommends the acceptance of the substantial completion,

NOW, THEREFORE BE IT RESOLVED that the Terrebonne Parish Council, on behalf of the Terrebonne Parish Consolidated Government, does hereby accept the work performed, effective as of the date of recording of this resolution, and does authorize and direct the Clerk of Court and Ex-Officio Recorder of Mortgages of Terrebonne Parish to note this acceptance thereof in the margin of the inscription of said contract under Entry No. 1528971 of the Records of Terrebonne Parish, Louisiana, and

BE IT FURTHER RESOLVED that a certified copy of the resolution be forwarded to the Engineer, GIS Engineering, LLC, and

BE IT FURTHER RESOLVED that a certified copy of the resolution be recorded in the office of the Clerk of Court of Terrebonne Parish to commence a 45-day clear lien period, and

BE IT FURTHER RESOLVED that the Administration is authorized to make payment of retainage upon the presentation of a Clear Lien Certificate.

THERE WAS RECORDED:

YEAS:

NAYS:

NOT VOTING:

ABSENT:

The chairman declared the resolution adopted on this _____ day of _____, 2017.

I, Venita H. Chauvin, Council Clerk of the Terrebonne Parish Council, Houma, Louisiana, do hereby certify that the foregoing is a true and correct copy of the RESOLUTION adopted by the Terrebonne Parish Council on _____, 2017, at which meeting a quorum was present.

GIVEN UNDER MY OFFICIAL SIGNATURE AND SEAL OF OFFICE THIS _____ DAY _____, 2017.

VENITA H. CHAUVIN
COUNCIL CLERK
TERREBONNE PARISH COUNCIL



ENGINEERING LLC

Coastal Design & Infrastructure

2503 Petroleum Drive | Suite 110
Houma, LA 70363
P: (985) 219-1000 | F: (985) 475-7014
www.gisyeng.com

May 16, 2017

Terrebonne Parish Consolidated Government
Pollution Control
2000 St. Louis Canal Rd.
Houma, LA 70360

Attention: Mr. Gregory E. Bush, Lt. Col, USA, Retired,
Pollution Control Administrator

Subject: Substantial Completion Recommendation

Reference: East Coteau Bayou Blue
Sewer Holding Basin Dredging Project
Parish Project No. 16-SEW-14
GIS Project No. 39130-1016/1017

Mr. Bush,

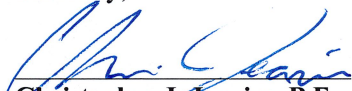
Based on the Final Inspection performed by GIS Engineering, LLC on Thursday, May 11, 2017 in the presence of TPCG (Owner) and Synagro's (Contractor) Representatives, and according to the Contract Document and Technical Specifications, we consider the project referenced above to be "Substantially Complete." Enclosed you will find the Substantial Completion Certificate partially executed, along with other documentation, including As-Built Drawings and final inspection photos, attesting all Work related to the present project is fully completed.

Upon your review, approval, and further execution of the Substantial Completion Certificate submitted herein, GIS will proceed with the recommendation for Final Payment and Final Acceptance as stated in Paragraph 14.14 of Section I – General Conditions of the Contract Documents.

A clear lien period, of no less than forty-five (45) consecutive calendar days, shall commence within twenty-one (21) days from the receipt of the present Certificate, as specified in Paragraph 14.11, Section I General Conditions of the Contract Documents.

If you have any questions or require any additional information, please contact me at (985) 219-1000.

Sincerely,



Christopher J. Jeanice, P.E.

Project Manager
Coastal Design & Infrastructure
GIS Engineering, LLC

Enclosures

Cc: Ashley Callahan – TPCG
Mr. Dustin Malbrough – GIS

GIS Global Headquarters | 18838 Highway 3235 | Galliano, LA 70354 | P: (985) 475-5238 | F: (985) 475-7014

Putting **People** First Since 1948

www.gisy.com

CERTIFICATE OF SUBSTANTIAL COMPLETION

PROJECT **EAST COTEAU/BAYOU BLUE**
SEWER HOLDING BASIN DREDGING PROJECT

PARISH PROJECT NO. **16-SEW-14**

DATE OF ISSUANCE **May 16, 2017**

OWNER **TERREBONNE PARISH CONSOLIDATED GOVERNMENT**

OWNER's Contract No. **16-SEW-14**

CONTRACTOR **SYNAGRO SOUTH, LLC** ENGINEER **GIS ENGINEERING, LLC**

This Certificate of Substantial Completion applies to all Work required as per the Contract Documents for the project above referenced.

TO **TERREBONNE PARISH CONSOLIDATED GOVERNMENT**
OWNER

And To **SYNAGRO SOUTH, LLC**
CONTRACTOR

The Work to which this Certificate applies has been inspected by authorized representatives of OWNER, CONTRACTOR and ENGINEER, and that Work is hereby declared to be substantially complete in accordance with the Contract Documents on

May 16, 2017
DATE OF SUBSTANTIAL COMPLETION

From the date of Substantial Completion the responsibilities between OWNER and CONTRACTOR for security, operation, safety, maintenance, heat, utilities, insurance and warranties and guarantees shall be as follows:

RESPONSIBILITIES:

OWNER As per contract documents

CONTRACTOR: As per contract documents

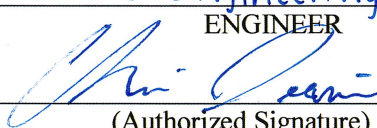
The following documents are attached to and made a part of this Certificate:

- As-Built Drawings
- Final Inspection Photos

A clear lien period, of no less than forty-five (45) consecutive calendar days, shall commence within twenty-one (21) days from the receipt of the present Certificate, as specified in Paragraph 14.11, Section I General Conditions of the Contract Documents.

This certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of CONTRACTOR's obligation to complete the Work in accordance with the Contract Documents.

Executed by ENGINEER ON May 17, 2017

GIS Engineering
ENGINEER
By: 
(Authorized Signature)

CONTRACTOR accepts this Certificate of Substantial Completion on _____, 20____

CONTRACTOR
By: _____
(Authorized Signature)

OWNER accepts this Certificate of Substantial Completion on _____, 20____

OWNER
By: _____
(Authorized Signature)



Monday, May 22, 2017

Item Title:

Substantial Completion for Bobtown Package Plant

Item Summary:

RESOLUTION: Providing for the acceptance of work performed by Volute, Inc., in accordance with the Certificate of Substantial Completion for Parish Project 16-SEW-05, Bobtown Sewer Package Plant Replacement, Terrebonne Parish, Louisiana.

ATTACHMENTS:

Description	Upload Date	Type
Executive Summary	5/18/2017	Executive Summary
Resolution	5/18/2017	Resolution
Backup Material	5/18/2017	Backup Material



EXECUTIVE SUMMARY

(REQUIRED FOR ALL SUBMISSIONS)

PROJECT TITLE

Project No. 16-SEW-05 Bobtown Sewer Package Plant Replacement

PROJECT SUMMARY (200 WORDS OR LESS)

The purpose of this project was to replace the existing deteriorated package plant.

PROJECT PURPOSE & BENEFITS (150 WORDS OR LESS)

This certificate of Substantial Completion applies to all work that has been inspected and that the work is substantially completed in accordance with the contract documents.

TOTAL EXPENDITURE

N/A

AMOUNT SHOWN ABOVE IS: (CIRCLE ONE)

ACTUAL

ESTIMATED

IS PROJECT ALREADY BUDGETED: (CIRCLE ONE)

N/A

NO

YES

IF YES AMOUNT
BUDGETED:

\$302,000.00

COUNCIL DISTRICT(S) IMPACTED (CIRCLE ONE)

PARISHWIDE

1

2

3

4

5

6

7

8

9

Signature

Gregory E. Burt

Date

5/18/17

OFFERED BY:
SECONDED BY:

RESOLUTION

A resolution providing for the acceptance of work performed by Volute, Inc., in accordance with the Certificate of Substantial Completion for Parish Project 16-SEW-05, Bobtown Sewer Package Plant Replacement, Terrebonne Parish, Louisiana.

WHEREAS, the Terrebonne Parish Consolidated Government entered into a contract dated October 17, 2016, with Volute Inc. Recordation Number 1519549, for Parish Project No. 16-SEW-05, Bobtown Sewer Package Plant Replacement, Terrebonne Parish, Louisiana, and

WHEREAS, the work performed has been inspected by authorized representatives of the Owner, Engineer, and Contractor and found to be substantially complete, and

WHEREAS, the Engineer for this project, Volute, Inc., recommends the acceptance of the substantial completion,

NOW, THEREFORE BE IT RESOLVED that the Terrebonne Parish Council, on behalf of the Terrebonne Parish Consolidated Government, does hereby accept the work performed, effective as of the date of recording of this resolution, and does authorize and direct the Clerk of Court and Ex-Officio Recorder of Mortgages of Terrebonne Parish to note this acceptance thereof in the margin of the inscription of said contract under Entry No. 1519549 of the Records of Terrebonne Parish, Louisiana, and

BE IT FURTHER RESOLVED that a certified copy of the resolution be forwarded to the Engineer, All South Consulting Engineers, LLC, and

BE IT FURTHER RESOLVED that a certified copy of the resolution be recorded in the office of the Clerk of Court of Terrebonne Parish to commence a 45-day clear lien period, and

BE IT FURTHER RESOLVED that the Administration is authorized to make payment of retainage upon the presentation of a Clear Lien Certificate.

THERE WAS RECORDED:

YEAS:

NAYS:

NOT VOTING:

ABSENT:

The chairman declared the resolution adopted on this _____ day of _____, 2017.

I, Venita H. Chauvin, Council Clerk of the Terrebonne Parish Council, Houma, Louisiana, do hereby certify that the foregoing is a true and correct copy of the RESOLUTION adopted by the Terrebonne Parish Council on _____, 2017, at which meeting a quorum was present.

GIVEN UNDER MY OFFICIAL SIGNATURE AND SEAL OF OFFICE THIS _____ DAY _____, 2017.

VENITA H. CHAUVIN
COUNCIL CLERK
TERREBONNE PARISH COUNCIL

CERTIFICATE OF SUBSTANTIAL COMPLETION

OWNER'S Project No. 16-SEW-05

ENGINEER'S Project No. 032-011-01

Project: Bobtown Sewer Package Plant Replacement

CONTRACTOR: Volute, Inc.

Contract For: Base Bid (No Alternates in Project)

Contract Date: Oct. 17, 2016

This Certificate of Substantial Completion applies to all Work under the Contract Documents or specified part thereof:

Entire Project

To: Terrebonne Parish Consolidated Government

OWNER

And to: Volute, Inc.

CONTRACTOR

The Work to which this Certificate applies has been inspected by authorized representatives of OWNER, CONTRACTOR and ENGINEER, and that Work is hereby declared to be substantially complete in accordance with the Contract Documents on

April 18, 2017

DATE OF SUBSTANTIAL COMPLETION

A tentative list of items to be completed or corrected is attached hereto. This list may not be all-inclusive, and the failure to include an item in it does not alter the responsibility of CONTRACTOR to complete all the Work in accordance with the Contract Documents. The items in the tentative list shall be completed or corrected by CONTRACTOR within 45 days of the above date of Substantial Completions.

The responsibilities between OWNER and CONTRACTOR for security, operation, safety, maintenance, heat, utilities, insurance and warranties shall be as follows:

RESPONSIBILITIES:

OWNER: None

CONTRACTOR: All warranties per the approved Contract Documents.

The following documents are attached to and make a part of this Certificate:

1. Tentative list of items to be completed or corrected

This certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of CONTRACTOR's obligation to complete the Work in accordance with the Contract Documents.

Executed by ENGINEER on MAY 4, 2017

[Signature]
ENGINEER
By SEUS J. NIELSEN JR.

CONTRACTOR accepts this Certificate of Substantial Completion on April 18, 2017

VOLUTE, Inc.
CONTRACTOR
By [Signature]

OWNER accepts this Certificate of Substantial Completion on _____, 20...

OWNER

By _____

**BOBTOWN SEWER PACKAGE PLANT REPLACEMENT
TPCG PROJECT NO. 16-SEW-05**

4-25-17

Revised 5-8-17

Revised 5-16-17

TENTATIVE LIST OF ITEMS TO BE COMPLETED OR CORRECTED

Visual inspections of the project site was performed on 4-25-17 and 5-8-17. Final Operations & Maintenance Manuals were received on 5-16-17. The results of the inspection is as follows:

Item No. 1: Install two (2) remaining cathodic protection anodes. (Completed)

Item No. 2: Calibrate Flowmeter. (Completed)

Item No. 3: Provide O&M Manuals per specifications after review of initial submittal is complete. (Completed)

END OF LIST