

COUNTY COUNCIL OF BEAUFORT COUNTY
ADMINISTRATION BUILDING
BEAUFORT COUNTY GOVERNMENT ROBERT SMALLS COMPLEX
100 RIBAUT ROAD

POST OFFICE DRAWER 1228
BEAUFORT, SOUTH CAROLINA 29901-1228

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SPECIAL COUNSEL

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CLERK TO COUNCIL

AGENDA

PUBLIC FACILITIES COMMITTEE

Monday, May 18, 2015

4:00 p.m.

Conference Room, Building 3
Beaufort Industrial Village
104 Industrial Village Road, Beaufort

Committee Members:

Gerald Dawson, Chairman
Roberts "Tabor" Vaux, Vice Chairman
Cynthia Bensch
Rick Caporale
Steve Fobes
Alice Howard
William McBride

Staff Support:

Andrew Dalkos, Division Director
IT Systems Management
Colin Kinton, Division Director
Transportation Engineering
Eric Larson, Division Director
Environmental Engineering
Robert McFee, Division Director
Facilities and Construction Engineering

1. CALL TO ORDER – 4:00 P.M.
2. PRESENTATION / MOBILE APPS OVERVIEW ([backup](#))
3. CONSIDERATION OF CONTRACT AWARDS
 - A. Up Fit / Renovation for Two Disabilities and Special Needs Residential Homes ([backup](#))
 - B. Storm, Debris Removal, Debris Management Site Operations & Disposal for Beaufort County ([backup](#))
 - C. Architectural and Engineering Design Services / Design of Animal Shelter and Control Facility ([backup](#))
 - D. Traffic Signal Installation at S.C. Highway 170 and Gibbet Road / Mill Creek ([backup](#))
4. UPDATE / CONVENIENCE CENTER TRAFFIC ANALYSIS ([backup](#))
5. AN ORDINANCE TO AUTHORIZE THE COUNTY ADMINISTRATOR TO EXECUTE A QUIT CLAIM DEED FOR THE MARY FIELDS SCHOOL AND ASSOCIATED PROPERTY ON DAUFUSKIE ISLAND TO THE UNION BAPTIST CHURCH ([backup](#))
6. APRIL 2015 CONSTRUCTION ENGINEERING INSPECTION / MANAGEMENT SERVICES FOR S.C. HIGHWAY 170 WIDENING PROJECT ([backup](#))
7. DISCUSSION / BUCKWALTER PARKWAY / BUCKWALTER TOWNE BOULEVARD TRAFFIC ENGINEERING REPORT ([backup](#))
8. DISCUSSION / DECLARING CERTAIN REAL PROPERTY AS SURPLUS PROPERTY: TAX MAP #R100 033 00A021B 0000
9. ADJOURNMENT

2015 Strategic Plan Committee Assignments

Law Enforcement Center Study
Windmill Harbour Entrance Solution and Funding
Bridge Replacement Plan
Sidewalks / Biking in Rural Areas Plan and Funding



Mobile Apps Overview

Information Technology Division Projects Update

Public Facilities Committee Meeting
May 18, 2015





Beaufort County
South Carolina *Heritage by the Sea*

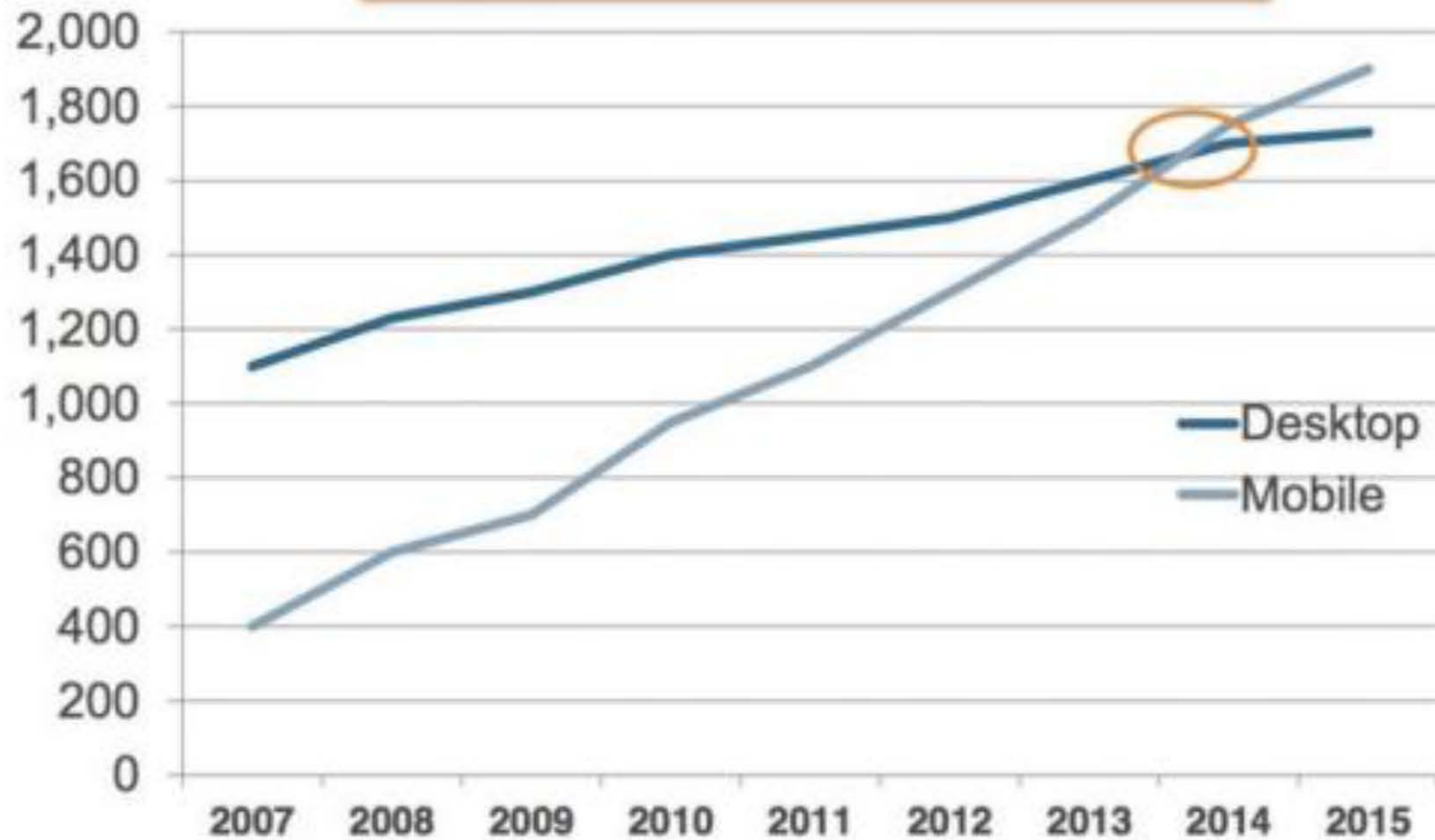


BEAUFORT 
COUNTY

It's becoming a mobile world...



Number of Global Users (Millions)



Beaufort County Mosquito Control Mobile Reporting App

Cristian Salmeron¹, Robert Gecy², Kasia A. Pawelek¹, and Gregg J. Hunt³

¹ Department of Mathematics and Computational Science, University of South Carolina Beaufort, Bluffton, SC 29909

² Beaufort County Information Technology, Beaufort, SC 29906

³ Beaufort County Mosquito Control, Beaufort, SC 29906



Abstract

A mobile application (app) to report dead birds with possible West Nile Virus (WNV) and/or to request service was conceived as part of the ongoing collaboration between Dr. Kasia Pawelek's Mathematical Modeling Research Group and Gregg Hunt, the Director of Beaufort County Mosquito Control (DCMC). The prototype app was stated in January 2013 by USCB Computational Science students, Cristian Salmeron and Patrick Niehaus, and completed in August 2014. Robert Gecy, the new Applications Programmer for Beaufort County Information Technology, will adapt this app for Beaufort County and South Carolina Department of Health and Environmental Control (DHEC). The app will allow residents and visitors to assist with the monitoring of WNV in Beaufort County. Participants may submit reports of dead bird sightings, with location coordinates and images, to BCMC and DHEC simultaneously. Also, the app will provide easy access to BCMC and WNV-related information. The monitoring of WNV in the county is crucial because of the large population of senior citizens which may develop life threatening symptoms associated with WNV infections. The reports of potential WNV activity as well as requests for service will initiate subsequent inspections and/or abatement strategies by BCMC within a timely manner.

Introduction

Significance

WNV is a major health concern in the U.S. Senior citizens and immunocompromised individuals are at the highest risk of developing severe symptoms when infected with WNV [1]. Thus, it is essential to monitor WNV activity in Beaufort County given that a large portion of the population is above the age of 60.

How does it spread?

- WNV is a vector-borne pathogen spread by infected mosquitoes, which are likely to develop in large numbers in the nutrient-rich water trapped in cacti basins and in various water-holding containers [2].
- The transmission cycle consists of mosquitoes feeding on infected birds and, subsequently, feeding on other birds or mammals [1].



Coming Soon

Objectives

- Allow Beaufort County residents and visitors to report dead bird sightings and/or request services for BCMC and/or DHEC.
- Provide information regarding WNV and the types of birds it affects.
- Inform residents of ways in which they can partake in the effort to control mosquito populations.

Features

- GPS location reporting allows for more accurate data collection.
- Easy to use image capture and submission enables users to submit dead birds images for identification.
- Up-to-date information about WNV, birds, and mosquitoes.
- Service requests and reports of dead bird sightings, with location coordinates and images, to BCMC and DHEC simultaneously.

Benefits

- Facilitates reporting and potential WNV activity mapping for residents.
- Residents become more informed and involved in control efforts.
- Allows users to submit service requests directly.
- Easily accessible contact information.
- More accurate WNV activity monitoring.

Future Research/Extensions

- Perform detailed analysis of data collected via the app to further study WNV and mosquito activity.
- Utilize collected data in mathematical modeling of the spread of WNV and optimization of abatement strategies.

Acknowledgements

- Dr. Pawelek Mathematical Modeling Research Group is supported by the Sea Islands Institute Grant.
- USCB Computational Science student, Cristian Salmeron, is a recipient of the S-STEM Scholarship.
- Thanks to the USCB Computational Science graduate Patrick Niehaus, for the initial work on the project.
- Poster printing discount.



References

- 1 CDC. West Nile virus. <http://www.cdc.gov/westnile/diseases/westnilevirus.html>
- 2 BMC. West Nile Virus. <http://www.cdc.gov/westnile/diseases/westnilevirus.html>

Mosquito Control



BEAUFORT COUNTY MOSQUITO CONTROL

Mobile Reporting App



Our Mission

Request Service/Inspection

Report Dead Bird(s)

"Fight The Bite!"

Contact Us

← BACK

About

This app was created in cooperation with students from the University of South Carolina Beaufort. Special thanks to Cristian Salmeron and Patrick Niehaus from Dr. Kasia Pawelek's Mathematical Modeling Research Group for their efforts in getting this project started.



**Developed by the Beaufort County
Information Technology Division**

Mobile Developers:

Robert Gecy

Scott Hansen

Ian deNeeve

Josh Riley

← BACK

Our Mission

The mission of BCDC is to provide safe, effective, and economical abatement of mosquitoes and to reduce the risk of mosquito-borne diseases for the residents and visitors of Beaufort County. To accomplish this goal, we adhere to the principles of Integrated Mosquito Management (IMM). This strategy depends on a multidisciplinary approach including, but not limited to, the application of public health insecticides. Our IMM consists of:



- surveillance of pest mosquitoes
- surveillance of vector mosquitoes and mosquito-borne diseases
- elimination of mosquito breeding sites
- strategic application of Environmental Protection Agency (EPA)-registered public health insecticides
- legislation
- continuing education for

Report or Submit Dead Birds to Help Track West Nile Virus!

Birds play an important role in spreading West Nile virus (WNV).



Between mid-March through the end of November, please report and/or submit freshly dead (non-injured, non-decayed) Crows, Blue Jays, House Finches, and House Sparrows.

Safe Handling of Dead Birds

Report a Dead Bird using this App

Where to Submit a Bird for Testing

Images of Birds to Report/Submit

Birds to Report or Submit for Testing



American Crow



Blue Jay



Fish Crow



House Finch



House Sparrow

We mainly test these five types of birds:

American Crows are 17-21

Birds to Report or Submit for Testing



American Crow



House Sparrow

We mainly test these five types of birds:

American Crows are 17-21

Request Service

Back SUBMIT

Full Name*

Click to find Location Address... 📍

Location Address*

Email*

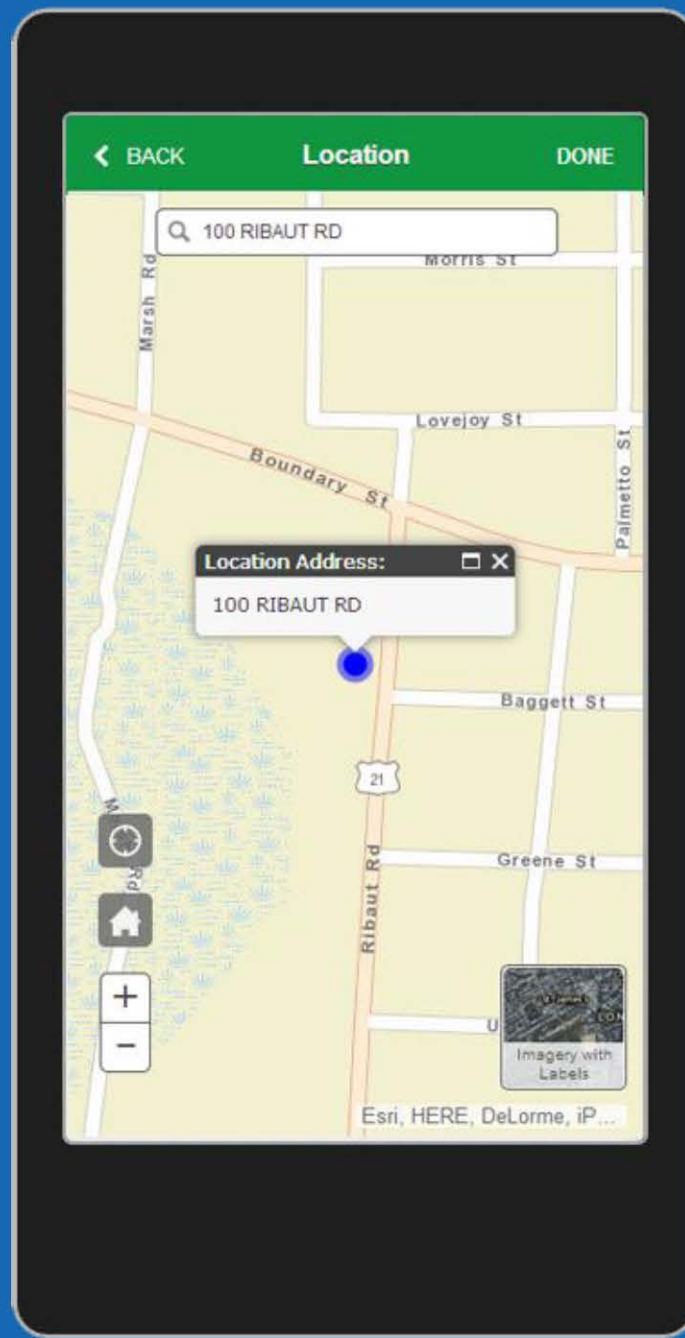
Phone* XXX-XXX-XXXX

Where are the mosquitoes? ▾

When are they biting? ▾

Water sources on or near property? ▾

Time Requested for Inspection? ▾



Report a Dead Bird

BACK SUBMIT

Full Name *

Phone #

Email Address *

Click to find Location Address... 📍

Location Address *

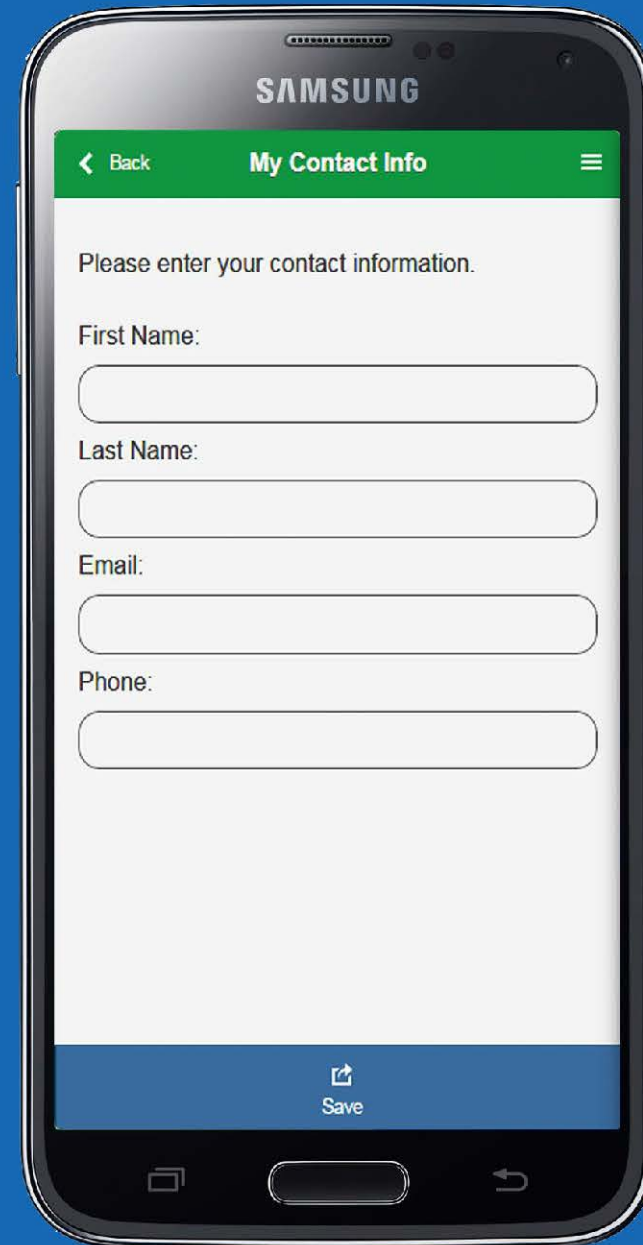
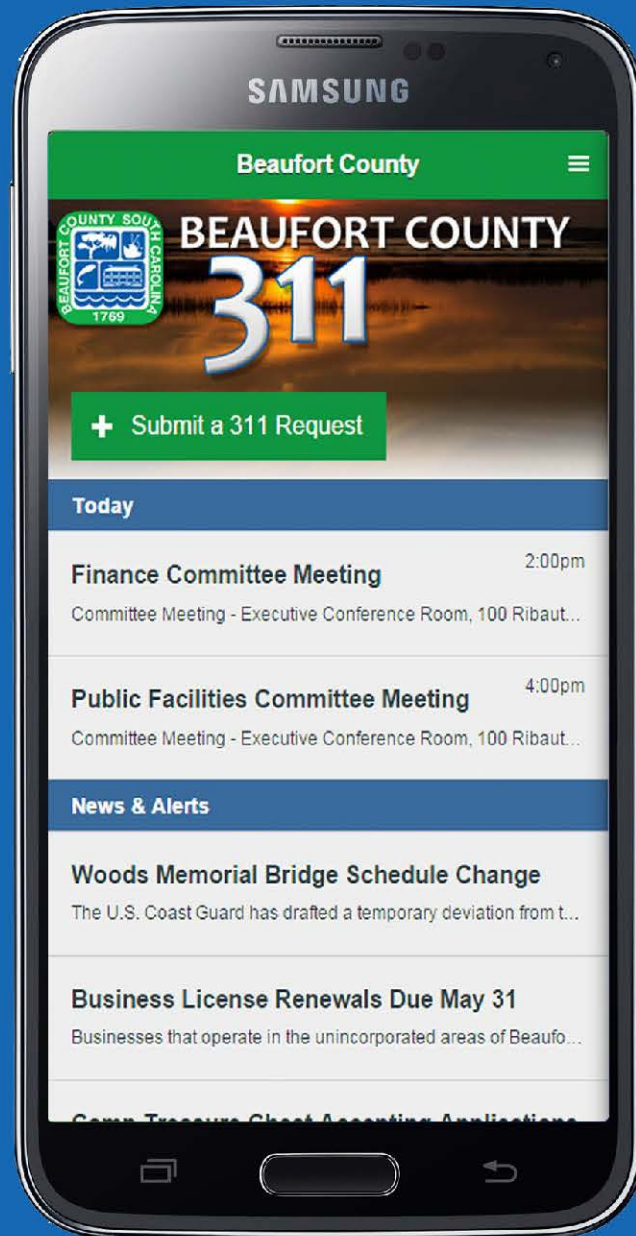
Number of Dead Birds? ▾

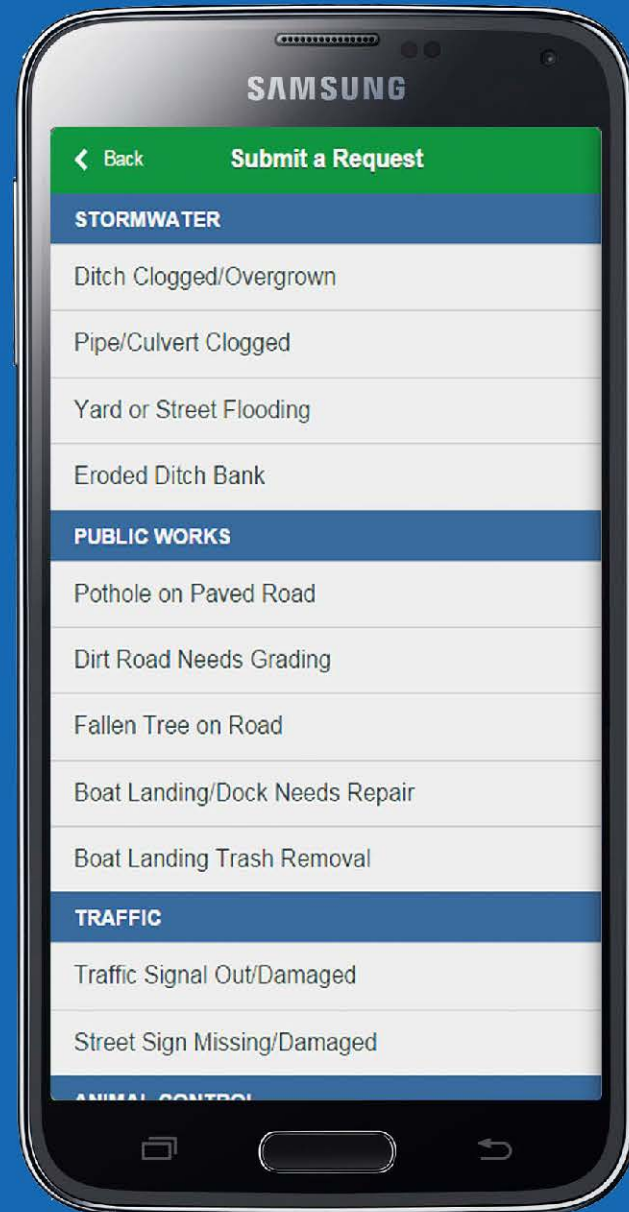
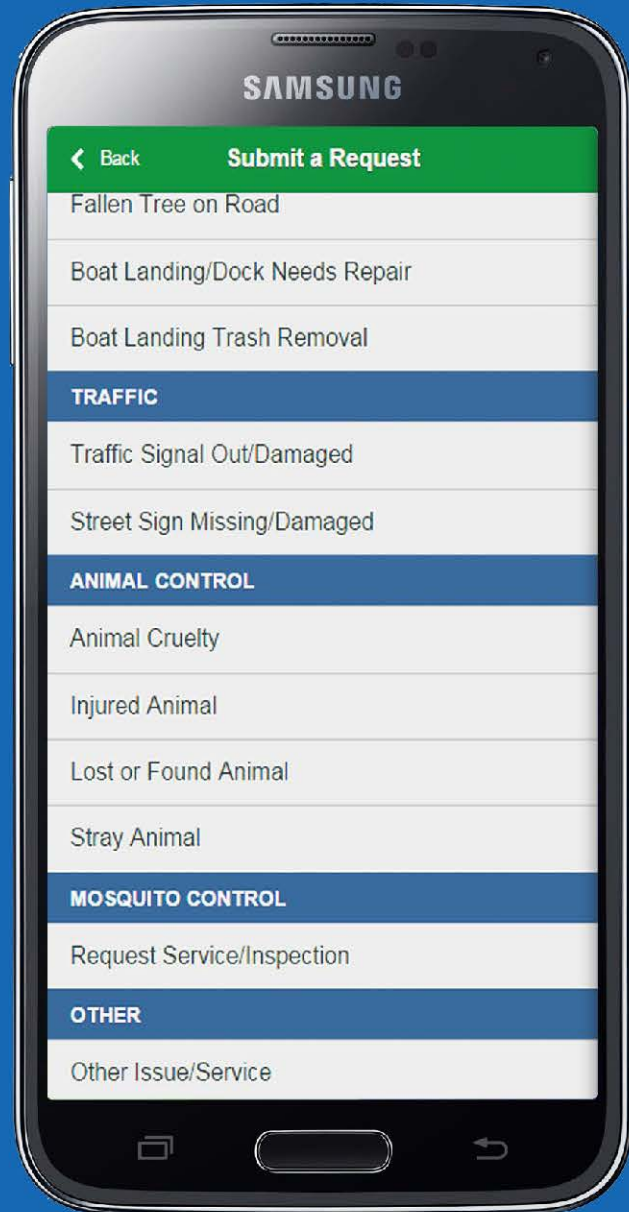
Additional Details

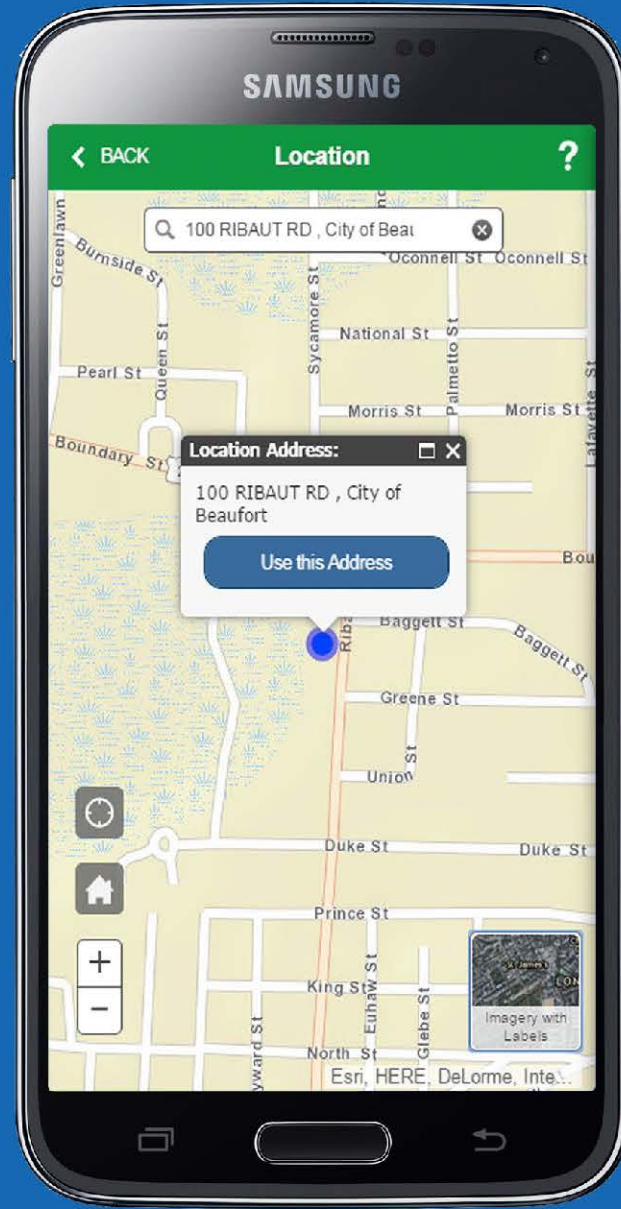
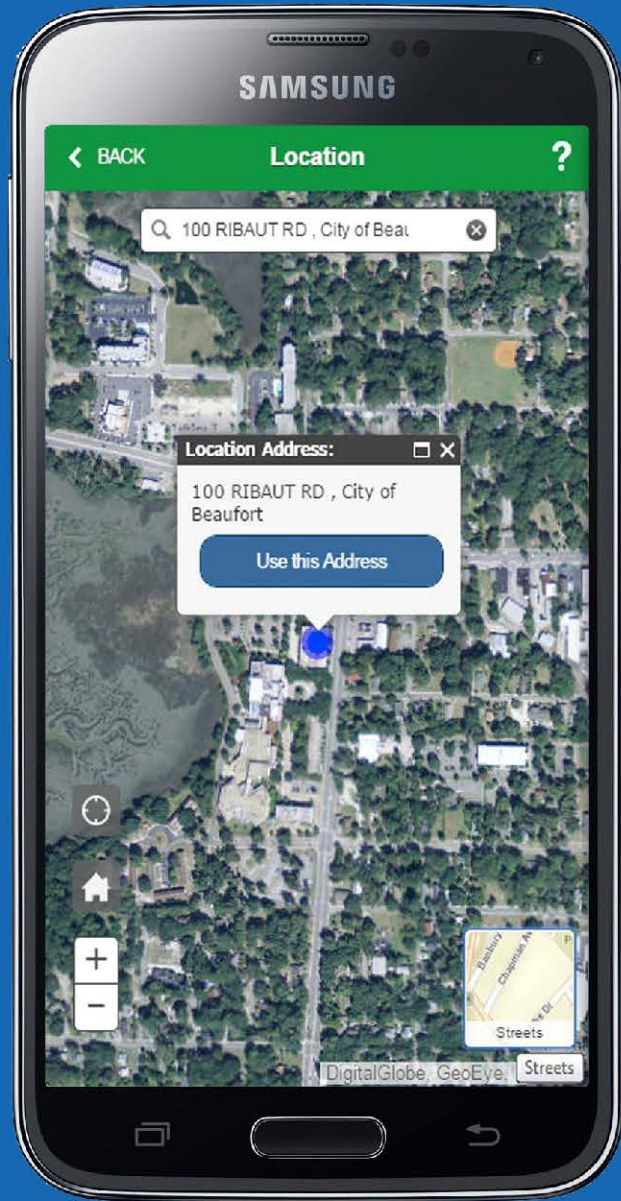
Attach Photo 📷

Current Projects

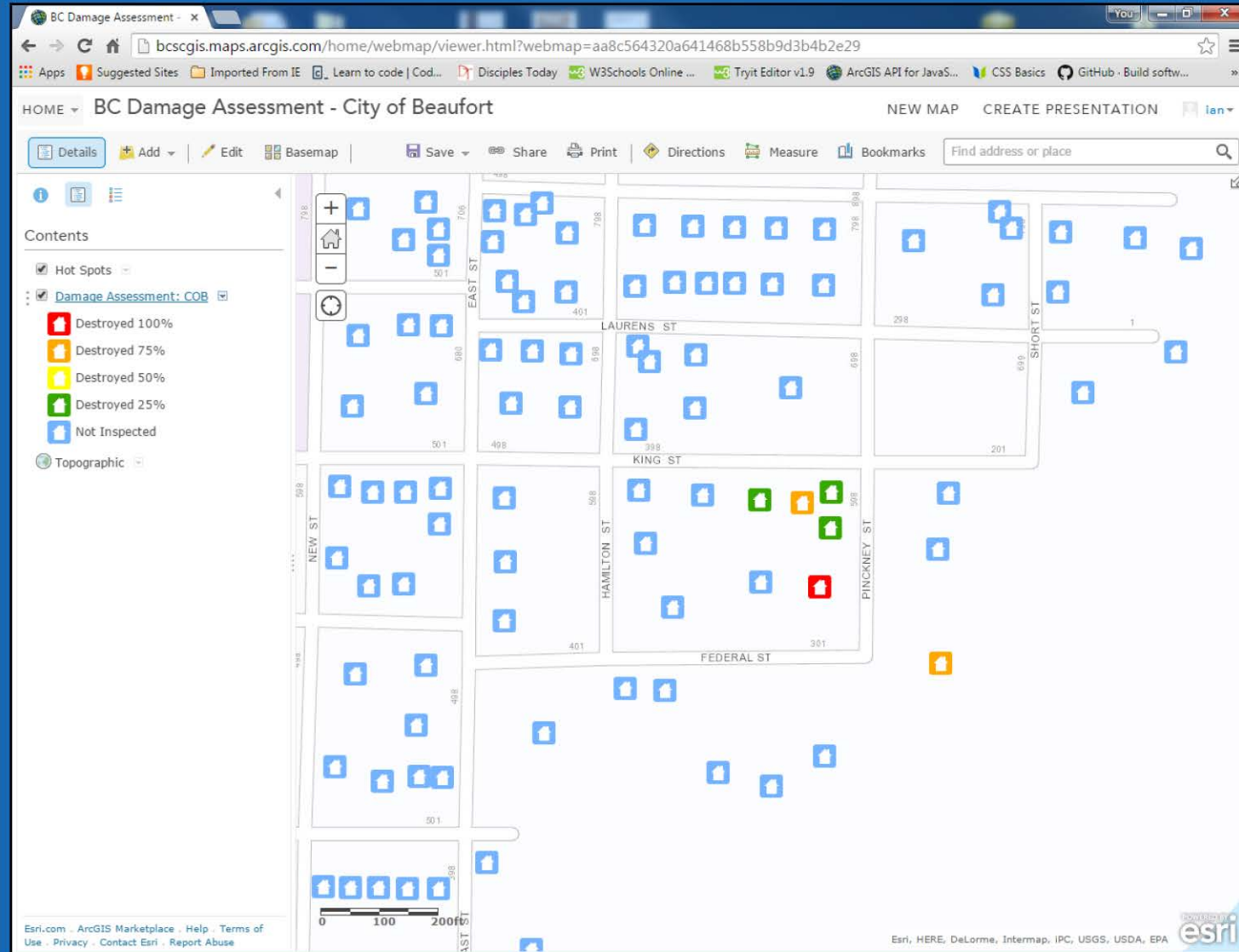
- **Beaufort County 311**
- **Damage Assessment**
- **Online Services**







View of Assessment Tool



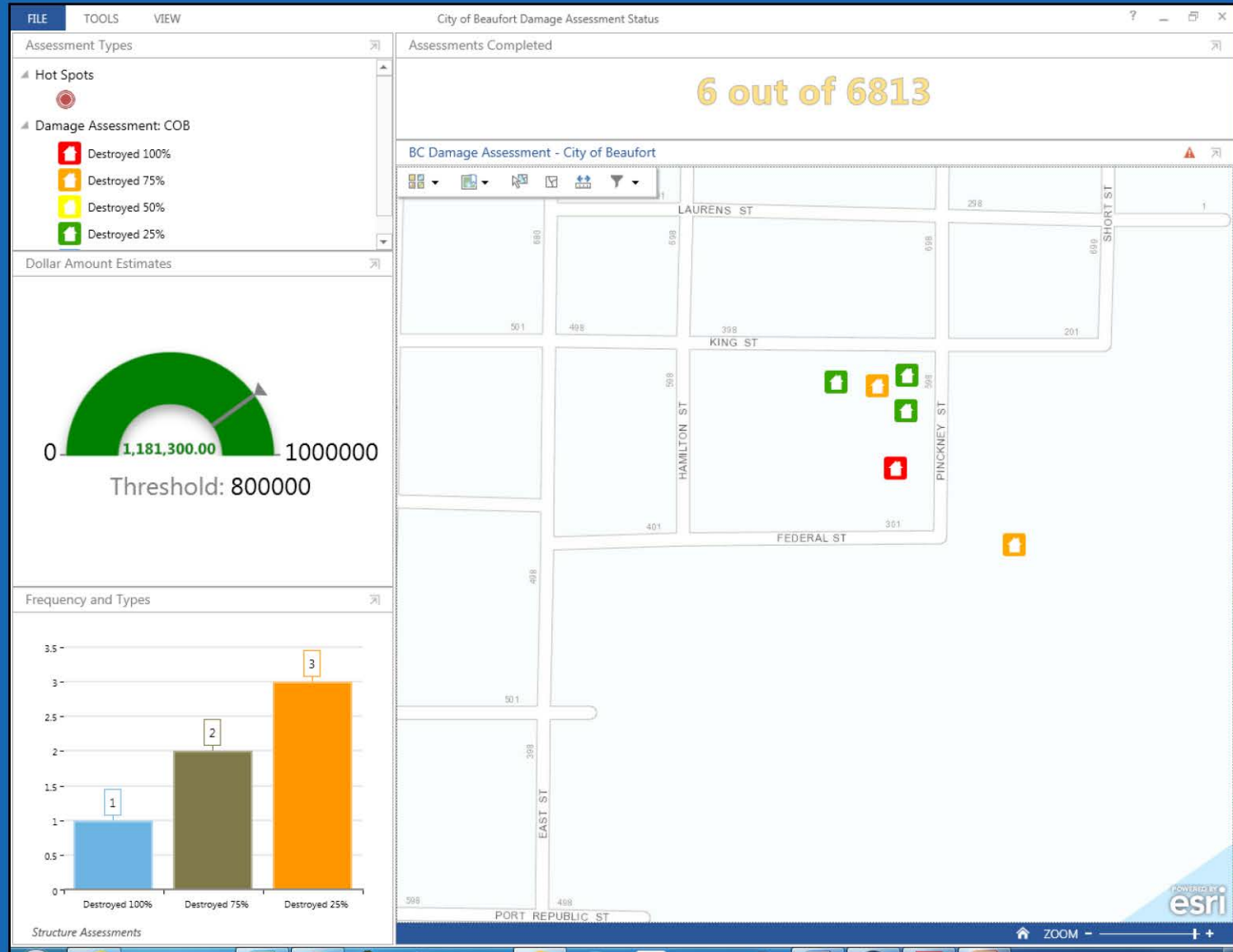
View of Assessment in Progress

The screenshot displays the ArcGIS Online interface for a 'BC Damage Assessment' project in the City of Beaufort. The map shows a grid of streets including East St, Laurens St, Short St, and New St, with numerous blue house icons representing assessed properties. A popup window titled 'BC_DA_COB' is open over a specific property at 505 Pinckney St. The popup contains the following information:

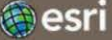
Field	Value
STADDRESS	505 PINCKNEY ST
PIN_	R120 004 000 760A 0000
LEGALRES	
Structure Value	450,800
Building Count	1
Multi-Family	
Home Total Value	450,800
MFH Individual Unit Value	450,800
Type of Incident	Hurricane
Date of Incident	4/7/2015
Inspection Date	4/7/2015
Team Number	1

The interface includes standard ArcGIS navigation tools (home, zoom, pan), a search bar, and a toolbar with options like 'Details', 'Add', 'Edit', 'Basemap', 'Save', 'Share', 'Print', 'Directions', 'Measure', and 'Bookmarks'. The bottom of the screen features the Esri logo and copyright information for 2015.

View of Operations Dashboard




Online Story Maps

Historic Sites of Beaufort County, SC Edit A story map 

- 1 Welcome Page**

Welcome to Beaufort County's website showing the many historic sites in the area.
[ADD COUNTY LOGO]
- 2 Prehistoric Era**
- 3 Time of Discovery**
- 4 Colonial Period (1700 - 1775)**
- 5 American Revolution / Early Federal Period (1776-1825)**
- 6 Antebellum (1825 - 1861)**
- 7 Civil War / Reconstruction (1861-1915)**



You are a member of 10 groups



Beaufort County Damage Assessment

Group for the damage assessment phase of disaster recovery.

created by ideneeve22 on July 3, 2014

[Details](#)



Beaufort County Stormwater Division

A portal for stormwater field work and other projects necessary to the Beaufort County Stormwater Division

created by ideneeve22 on July 1, 2014

[Details](#)



Beaufort County Voter Registration

Voter Registration Group

created by ideneeve22 on October 30, 2014

[Details](#)



Building Codes

Mapping group for Beaufort County Building Codes Inspectors

created by ideneeve22 on April 27, 2015

[Details](#)



Coosawhatchie Users Group

A compendium of ArcGIS users for the Lowcountry of South Carolina and The Coastal Empire of Coastal Georgia

created by ideneeve22 on July 22, 2009

[Details](#)



Emergency Management

created by ideneeve22 on February 4, 2015

[Details](#)



Parks and Leisure Services

County Recreational Services

created by ideneeve22 on November 5, 2014

[Details](#)



Historic Sites of Beaufort County, SC

Edit A story map



1 Welcome Page

2 Prehistoric Era

3 Time of Discovery

Spanish at Santa Elena

Blah blah....spanish...blah

[place image of colonial ships off coast here]

The French Huegenots

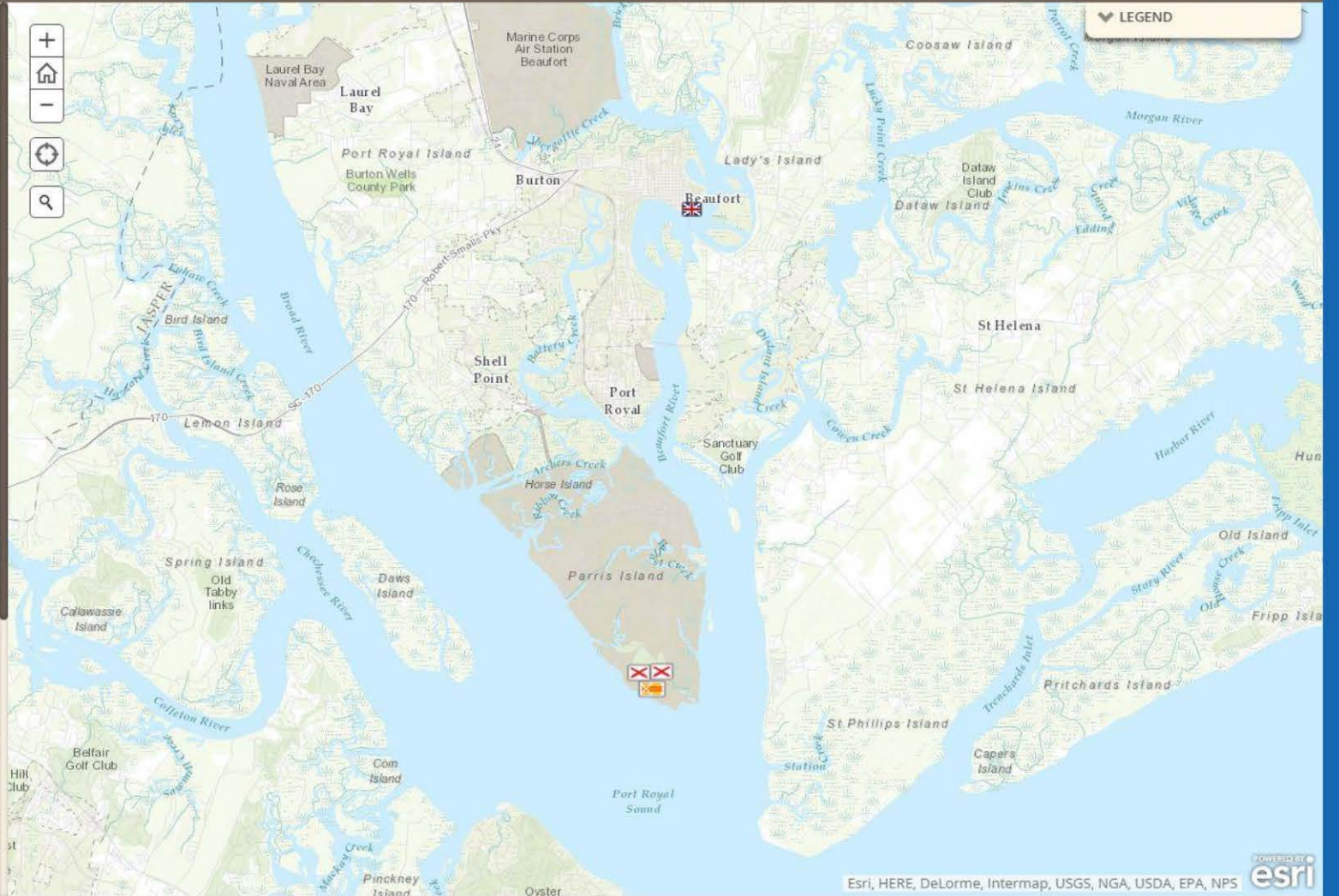
Blah bla...French... blah...ouil

Scottish

Blah blah Scottish...blah

4 Colonial Period (1700 - 1775)

5 American Revolution / Early Federal Period (1776-1825)



Future Projects

- **ArcGIS Online – Cloud Services**
- **Aerial Photo Acquisition**
- **County Kiosks**

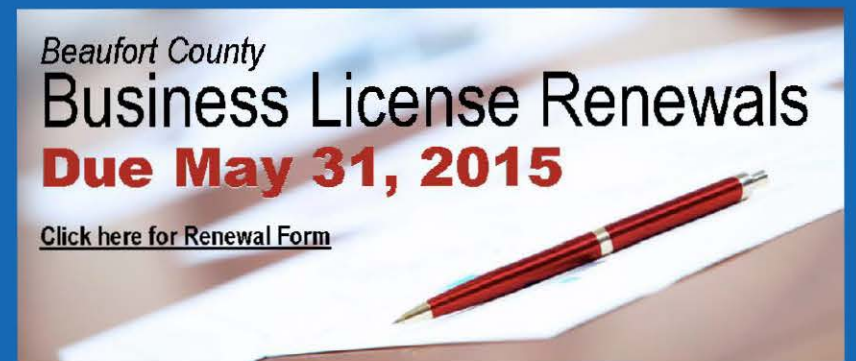
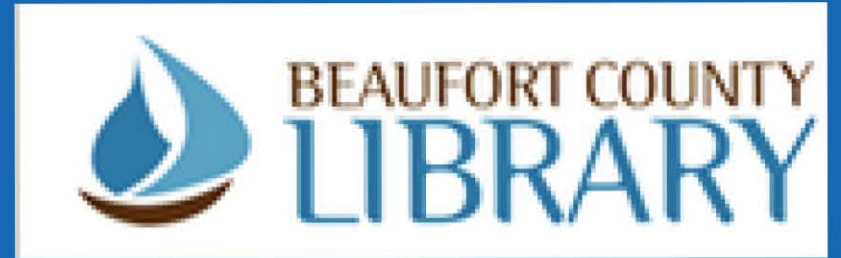


Permitting in the Field





Beaufort County Kiosk



Questions?





© National Air & Space Museum/Exclusivepix

Pigeons were fitted with mini Ticka watch cameras in 1908 by Dr Julius Neubronner to take aerial photos



COUNTY COUNCIL OF BEAUFORT COUNTY
PURCHASING DEPARTMENT
106 Industrial Village Road
Post Office Drawer 1228
Beaufort, South Carolina 29901-1228

TO: Councilman Gerald Dawson, Chairman, Public Facilities Committee
FROM: Dave Thomas, CPPO, Purchasing Director
SUBJ: **Recommendation of Contract Award for IFB#050615 for Up Fit/Renovation for Two Department of Special Needs Residential Homes**
DATE: May 18, 2015

BACKGROUND: On May 6, 2015, Beaufort County received one bid from Hutter Construction Company for renovation services for two homes in Bluffton, SC, located at 75 Lake Crossing and 210 Pinecrest. The project involves the renovation of and improvement to the residential homes for Beaufort County's Department of Special Needs. The renovation will include, but is not limited to, the following: minor demolition, interior wall and window improvements, mechanical, electrical, plumbing, HVAC, painting, carpentry, flooring and finish work. This will include the installation of a new fire suppression system and new fire detection system, ADA modifications and improvements.

BIDDERS INFORMATION:

COST:

1. Hutter Construction Corporation, Beaufort, SC

\$241,550*

*The original bid cost from Hutter Construction was \$253,000. Staff negotiated a lower price to take advantage of cost saving opportunities (see the attached Hutter Construction final pricing letter).

An analysis of Hutter Construction bid prices revealed no apparent cause for rejecting the bid. Therefore, Hutter Construction is the certified lowest responsible/responsive bidder. The County's Small and Minority Business provisions did not apply due to grant funding from the South Carolina Department of Disabilities and Special Needs.

FUNDING: Account # 24410011-54410, DSN Administration, included all Bluffton development costs with an available fund balance of \$654,228 as of the date of this memo.

FOR ACTION: Public Facilities Committee meeting occurring May 18, 2015.

RECOMMENDATION: The Public Facilities Committee approve and recommend to County Council a contract award to Hutter Construction Corporation in the amount of \$241,550 for the two DSN Residential Homes Up fit/Renovation Project from the funding source listed above.

CC: Gary Kubic, County Administrator *Gary Kubic*
Joshua Gruber, Deputy County Administrator/Special Counsel
Alicia Holland, Asst. Co. Administrator, Finance
Monica Spells, Asst. Co. Administrator, Civic Engagement *Spells*
Morris Campbell, Community Services Director *me*
Mark Roseneau, Facilities Management Director
Mitzi Wagner, Disabilities and Special Needs Director *MHW 5-14-15*

Att: Bid Tab, Hutter Construction's Final Pricing letter

PRELIMINARY BID TABULATION

PURCHASING DEPARTMENT



Project Name:	Up Fit Renovation for 2 DSN Homes
Project Number:	IFB 050615
Project Budget:	
Bid Opening Date:	1-May-15
Time:	3:00
Location:	BIV #2 Conference Room
Bid Administrator:	Dave Thomas
Bid Recorder:	Linda Maietta

The following bids were received for the above referenced project:

BIDDER	BID FORM	BID BOND	ALL ADDE NDA	SCH OF VALUES	SUB LISTING	SMBE DOCS	Grand Total Price
Hutter Construction Corporation	X	X	X	N/A	N/A	N/A	\$253,000.00

Beaufort County posts PRELIMINARY bid tabulation information within 2 business days of the advertised bid opening. Information on the PRELIMINARY bid tabulation is posted as it was read during the bid opening. Beaufort County makes no guarantees as to the accuracy of any information on the PRELIMINARY tabulation. The bid results indicated here do not necessarily represent the final compliance review by Beaufort County and are subject to change. After the review, the final award will be made by Beaufort County Council and a certified bid tab will be posted online.

Bid Administrator Signature

Bid Recorder



Beaufort County Up Fit/Renovations for two DSN Residential Homes IFB# 050615

Attention:

Mark E. Roseneau, Director
Facility Management
120 Shanklin Road
Beaufort, South Carolina 29906
(843) 255-2748 Voice
(843) 255-9448 Fax

Here is the adjusted response to savings on DSN houses,

- 1) \$3000 savings per house by reducing the Miscellaneous Conditions Allowance to \$2000
- 2) Showers: Lakes Crossing -\$700 Pinecrest -\$2100 (Showers like Cottage Walk)
- 3) Pinecrest: Ada concrete ramp similar to Cottage Walk rather than pouring an entire new pad will save \$650.00
- 4) Reduce Security and Surveillance Allowance to \$6000.00 by reducing the number of cameras to 4 per home.

Total: Lakes reduces from \$119,600 to \$114,900 and Pinecrest reduces from \$133,400 to \$126,650

New Total for both jobs: \$241,550.00

Thanks,



Kenton Stenersen
Project Manager
Hutter Construction Corporation
P.O. Box 257 | 810 Turnpike Road
New Ipswich, NH 03071
T: (603) 878-2300 ext. 119
Cell Phone: (843) 694-1693
www.HutterConstruction.com



COUNTY COUNCIL OF BEAUFORT COUNTY
PURCHASING DEPARTMENT

106 Industrial Village Road, Bldg 2-Post Office Drawer 1228
Beaufort, South Carolina 29901-1228

TO: Councilman Gerald Dawson, Chairman, Public Facilities Committee

FROM: Dave Thomas, CPPO, Purchasing Director *det*

SUBJ: Storm, Debris Removal, Debris Management Site Operations & Disposal for Beaufort County RFP #030415

DATE: May 8, 2015

BACKGROUND: Beaufort County issued a Request for Proposal (RFP) on February 2, 2015, to solicit proposals from qualified firms to provide services necessary due to a storm event, including debris removal, debris management site operations and debris disposal. A pre-proposal meeting was held February 12, 2015, and proposals were originally due on March 4, 2015, but the date was extended to March 6, 2015, due to weather issues causing the late delivery of several proposals. The County received proposals from ten firms:

1. AshBritt, Inc., Deerfield, FL
2. Asplundh Environmental Services, Charlotte, NC
3. Bergeron Emergency Services, Ft. Lauderdale, FL
4. Ceres Environmental Services, Inc., Sarasota, FL
5. Crowder Gulf, Theodore, AL
6. DRC Emergency Services, Mobile, AL
7. J. B. Coxwell Contracting, Inc., Jacksonville, FL
8. Phillips & Jordan, Inc., Knoxville, TN
9. Southern Disaster Recovery, Greer, SC
10. TFR Enterprises, Inc., Leander, TX

The staff evaluation committee reviewed the proposals for capability, the firms' experience, performance capability and proposed cost. Evaluation committee members consisted of Eric Larson, Director Environmental Engineering; Eddie Bellamy, Public Works Director; David Zeoli, Deputy Director Emergency Management; James S. Minor, Jr., Solid Waste Manager; and Chad Stanley, Public Works General Support Superintendent. Non-scoring members of the panel providing oversight were Monica Spells, Assistant County Administrator and Dave Thomas, Purchasing Director. Based on the scoring of the ten submitted proposals, four firms were invited for interviews on May 8, 2015: AshBritt, Inc., Ceres Environmental Services, Crowder Gulf and DRC Emergency Services. The panel ranked the firms according to the RFP selection criteria and determined two of the firms were best suited to meet the County's storm debris removal, debris management site operation and disposal needs. The **top ranked firm was Ceres Environmental**, based on the panels' evaluation that this firm was the most capable firm to provide the necessary services to the County at the most favorable cost. Using the same selection criteria, the **second ranked firm was Crowder Gulf**. See attachment 1 & 2 for panel ratings of the firms.

GH **FUNDING:** Prior annual expenditures have not been established. Total costs are unit priced based on the cubic yards of debris generated by a hurricane or other debris generating event handled by the firm. An estimated dollar amount for each firm was calculated by our debris monitoring firm using an estimated average based on a hypothetical model (See attachment 3). The actual cost will be determined by magnitude of each natural event impacting Beaufort County.

FOR ACTION: Public Facilities Committee on May 18, 2015.

RECOMMENDATION: The Purchasing Department recommends that the Public Facilities Committee approve and recommend to County Council the contract award of the **primary contract for service to Ceres Environmental Services, Inc.**, and award of the **secondary contract for service to Crowder Gulf.**

cc: Gary Kubic, County Administrator

Joshua Gruber, Deputy County Administrator/Special Counsel

Alicia Holland, Asst. Co. Administrator, Finance

Monica Spells, Asst. County Administrator, Outreach

Eric Larson, Director Environmental Engineering

Eddie Bellamy, Director Public Works

James S. Minor, jr., Solid Waste Manager

Gary Kubic
JG
AH
Spells
EL
MB
EB
JM

- Attachment:
1. Evaluation panel ratings of all proposals
 2. Evaluation panel ratings of top four firms following presentations and proposals
 3. Average cost estimate

PRELIMINARY BID TABULATION
PURCHASING DEPARTMENT

ATTACHMENT 1



Project Name:	Storm, Debris Removal, Debris Mgt Site Operations/Disposal for BC
Project Number:	RFP #030415
Project Budget:	
Bid Opening Date	Wednesday, March 4, 2015
Time:	3:00 PM
Location:	Building #2 106 Industrial Village Rd, Beaufort, SC
Bid Administrator	Dave Thomas, Beaufort County Purchasing Director
Bid Recorder:	Jim Minor, Solid Waste Manager

BIDDER	Rater 1	Rater 2	Rater 3	Rater 4	Rater 5	Total	Average Score	Rank
Ashbritt, Inc.	92	84	74.5	87	85	422.5	84.50	3
Asplundh	50	57	36	49	82	274	54.80	10
Bergeron Emergency Services	67	90	72	64	78	371	74.20	6
Ceres Environmental	93	93	73	89	86	434	86.80	2
Crowder Gulf	98	92	67.5	99	86	442.5	88.50	1
DRC Emergency Services	88	74	66.5	80	89	397.5	79.50	4
JB Coxwell Contracting, Inc.	68	76	45	53	78	320	64.00	8
Phillips & Jordan	88	70	70	79	84	391	78.20	5
Southern Disaster Recovery	70	62	58.5	79	83	352.5	70.50	7
TFR Enterprises, Inc.	65	74	30	48	81	298	59.60	9

PRELIMINARY BID TABULATION
PURCHASING DEPARTMENT

ATTACHMENT 2



Project Name:	Storm, Debris Removal, Debris Mgt Site Operations/Disposal for BC
Project Number:	RFP #030415
Project Budget:	
Presentation	Friday May 8, 2015
Time:	9-00 am - 3:00:00 PM
Location:	PWCR 120 Shanklin Road, Beaufort, SC
Bid Administrator	Dave Thomas, Beaufort County Purchasing Director
Bid Recorder:	Jim Minor, Solid Waste Manager

	Rater 1	Rater 2	Rater 3	Rater 4	Rater 5	Total	Average Score	Rank
Ashbritt, Inc.	92	63	62	87	79	383	76.60	3
Ceres Environmental	98	93	84	89	85	449	89.80	1
Crowder Gulf	96	92	74	99	81	442	88.40	2
DRC Emergency Services	88	62	44	80	62	336	67.20	4

ATTACHMENT 3

	Medium Wind Event Assumptions	Medium Wet Event Assumptions	Large Event Assumptions	Average Cost	Rank By Cost Using Average Scenarios
CrowderGulf	\$ 2,639,996.00	\$ 2,801,903.00	\$ 34,300,570.00	\$ 13,247,489.67	1
Southern Disaster Recovery	\$ 2,622,671.00	\$ 2,712,023.00	\$ 34,539,470.00	\$ 13,291,388.00	2
Ceres Environmental	\$ 4,005,472.00	\$ 3,679,171.00	\$ 37,769,890.00	\$ 15,151,511.00	3
Ashbritt, Inc.	\$ 3,319,366.00	\$ 3,459,175.50	\$ 38,718,345.00	\$ 15,165,628.83	4
Bergeron Emergency Services	\$ 2,477,585.00	\$ 2,932,217.50	\$ 40,847,575.00	\$ 15,419,125.83	5
TFR Enterprises, Inc.	\$ 3,620,515.00	\$ 3,335,770.00	\$ 40,073,900.00	\$ 15,676,728.33	6
Asplundh	\$ 3,434,506.60	\$ 3,353,156.60	\$ 41,242,916.50	\$ 16,010,193.23	7
Phillips & Jordan	\$ 3,237,885.00	\$ 3,547,680.00	\$ 42,710,450.00	\$ 16,498,671.67	8
DRC Emergency Services	\$ 3,575,519.00	\$ 3,569,942.00	\$ 42,716,980.00	\$ 16,620,813.67	9
J.B. Coxwell Contracting, Inc	\$ 4,368,830.00	\$ 4,426,802.50	\$ 51,796,725.00	\$ 20,197,452.50	10



COUNTY COUNCIL OF BEAUFORT COUNTY
BEAUFORT COUNTY ENGINEERING DEPARTMENT
104 Industrial Village Road, Building #3, Beaufort, SC 29906
Post Office Drawer 1228, Beaufort, SC 29901-1228
Telephone: 843-255-2700 Facsimile: 843-255-9420

TO: Councilman Gerald Dawson, Chairman, Public Facilities Committee

VIA: Gary Kubic, County Administrator *Gary Kubic*
Josh Gruber, Deputy County Administrator
Alicia Holland, Assistant County Administrator for Finance *AH*
Monica Spells, Administrator for Civic Engagement *Spells*
Dave Thomas, Purchasing Director *DT*

FROM: Rob McFee, PE, Director of Facilities & Construction Engineering *Rob McFee*

SUBJ: Architectural and Engineering Design Services for the Design of the Beaufort County Animal Services & Control Facility - RFQ # 120914E

DATE: May 12, 2015

BACKGROUND. Beaufort County Council adopted Ordinance #2014/16 on 6/23/14 for the sales of general obligation bonds for funding of capital improvement projects. One of the capital projects is the County's Animal Services Complex.

Beaufort County advertised a Request for Qualifications (RFQ's) from firms seeking a multi-discipline design team for development of the Animal Services & Control Facility. On 12/09/14, Beaufort County received 7 submittals for RFQ's from the following firms:

BDA Architecture, PC Albuquerque, NM	Boomerang Design Charlotte, NC	FWA Group Hilton Head, SC	Glick Boehm & Associates Charleston, SC
HGBD Architects & Engineers Savannah, GA	R. W. Chambers Beaufort, SC	Stewart Cooper Newell Architects Gastonia, NC	

A selection committee composed of the Division Director of Facilities & Construction Engineering, Facilities Management Director, Assistant County Administrator for Public Safety, Animal Services Director and Airports Director was tasked with evaluating and selecting the highest ranking firms based on qualifications and experience. The following 4 firms were ranked highest and were selected for interviews by the committee:

BDA Architecture, Glick Boehm & Associates, RW Chambers, Stewart Cooper Newell Architects

As a result of the interviews, Glick Boehm & Associates was ranked number one and was selected for subsequent fee negotiations. The Facilities Management Director met with the Glick Boehm Architect team and a final and best value offer totaling \$428,400 was submitted for the development of an approximate 10,000 sqft Animal Services & Control Facility on a six acre site. The proposed fee for the development of the Animal Services & Control Facility was reviewed and found to be fair and reasonable.

AH **FUNDING.** New Animal Shelter CIP Account 40090011-54600 with a fund balance of \$3.5million.

FOR ACTION. Public Facilities Committee Meeting on May 18, 2015.

RECOMMENDATION. The Public Facilities Committee approve and recommend to County Council approval of a design contract award to Glick Boehm & Associates for the design of the Animal Services & Control Facility in the amount of \$428,400 and funded as listed above.

Attachment: 5/7/15 Fee Proposal

cc: Phil Foot, Tallulah Trice, Mark Roseneau



May 7, 2015

1502/1.1.1

Mr. Mark Roseneau, Director
Facility Management
Beaufort County Government
120 Shanklin Road
Beaufort, SC 29906

**Re: Finalized A/E Proposal
Beaufort County Animal Shelter
Beaufort, South Carolina**

Dear Mr. Roseneau:

In accordance with our conversations over the last few weeks, I would like to confirm that Glick/Boehm & Associates will be providing architectural and engineering services for a six acre site and an approximate 10,000 square foot building for a total fee of \$428,400.00. This fee includes all mileage, meals, travel and long distance phone calls for all design meetings and all site visits during the construction administration phase of the project.

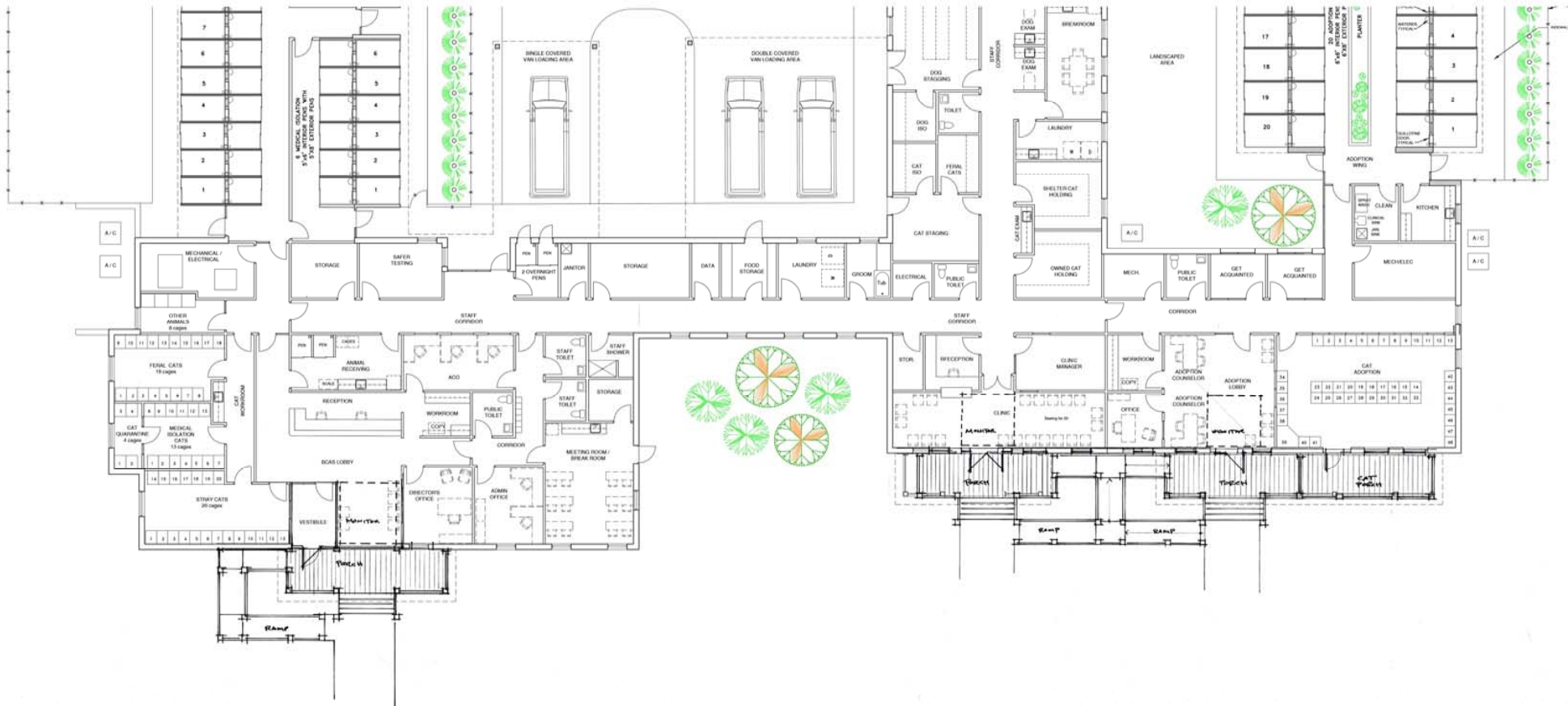
- A. Survey is included for the six acre site.
- B. The only cost not included in this fee are drawings for construction (the contractor will be responsible) and any fees for local agency submittal and approval.

Glick/Boehm & Associates and our entire consultant team are looking forward to working with you and the others at Beaufort County again.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Myles I. Glick', is written over the typed name below.

Myles I. Glick, AIA, LEED AP
Senior Principal





COUNTY COUNCIL OF BEAUFORT COUNTY
BEAUFORT COUNTY TRAFFIC & TRANSPORTATION
ENGINEERING DEPARTMENT

113 Industrial Village Road, 29906
PO Drawer 1228, Beaufort, SC 29901-1228
Phone: (843) 470-2631 Fax: (843) 522-0510

TO: Councilman Gerald Dawson, Chairman, Public Facilities Committee

VIA: Gary Kubic, County Administrator *Gary Kubic*
Josh Gruber, Deputy County Administrator
Alicia Holland, Assistant County Administrator for Finance *AH*
Monica Spells, Assistant County Administrator for Civic Engagement *Spells*
Dave Thomas, Purchasing Director *DT*

FROM: Colin Kinton, Director of Transportation Engineering *CK*

SUBJ: **Contract Award for Traffic Signal Installation at SC 170 and Gibbet Road/Mill Creek
IFB #050115TE**

DATE: May 13, 2015

BACKGROUND. Beaufort County requested bids for the installation of a new traffic signal at the intersection of SC 170 and Gibbet Road/Mill Creek. This new signal was not included in the original bid and plans for the SC 170 widening project. On May 5, 2015 the following bids were received.

<u>Contractor</u>	<u>Bid Amount</u>
Walker Brothers, Inc, Lexington, SC	\$100,656.20 (non-responsive)
W M Roebuck, Inc., Lexington, SC	\$154,449.00
ALS of North Carolina, Inc., Salisbury, NC	\$155,336.34
Engineering Estimate	\$164,791.60

An analysis of the bids revealed that Walker Brothers failed to include the night time work premium allocation in their bid submittal. Night time installation of the traffic signal is required by SCDOT. Walker Brothers bid has to be considered non-responsive. Therefore, W. M. Roebuck, Inc. is the certified lowest responsible/responsive bidder. W H Roebuck's bid prices review revealed no apparent cause for rejecting their bid.

Staff is requesting a 10% project contingency of \$15,444. Total project budget is \$169,893.

FUNDING. SC 170 Widening Sales Tax Project Acct #33403-54500 with an available balance of \$258,374 at 5/13/15. All construction costs on the SC 170 Widening project are reimbursable from the SCSIB Grant for this project. Additionally, the Mill Creek residential subdivision will be providing \$20,000 for funding the installation of the signal.

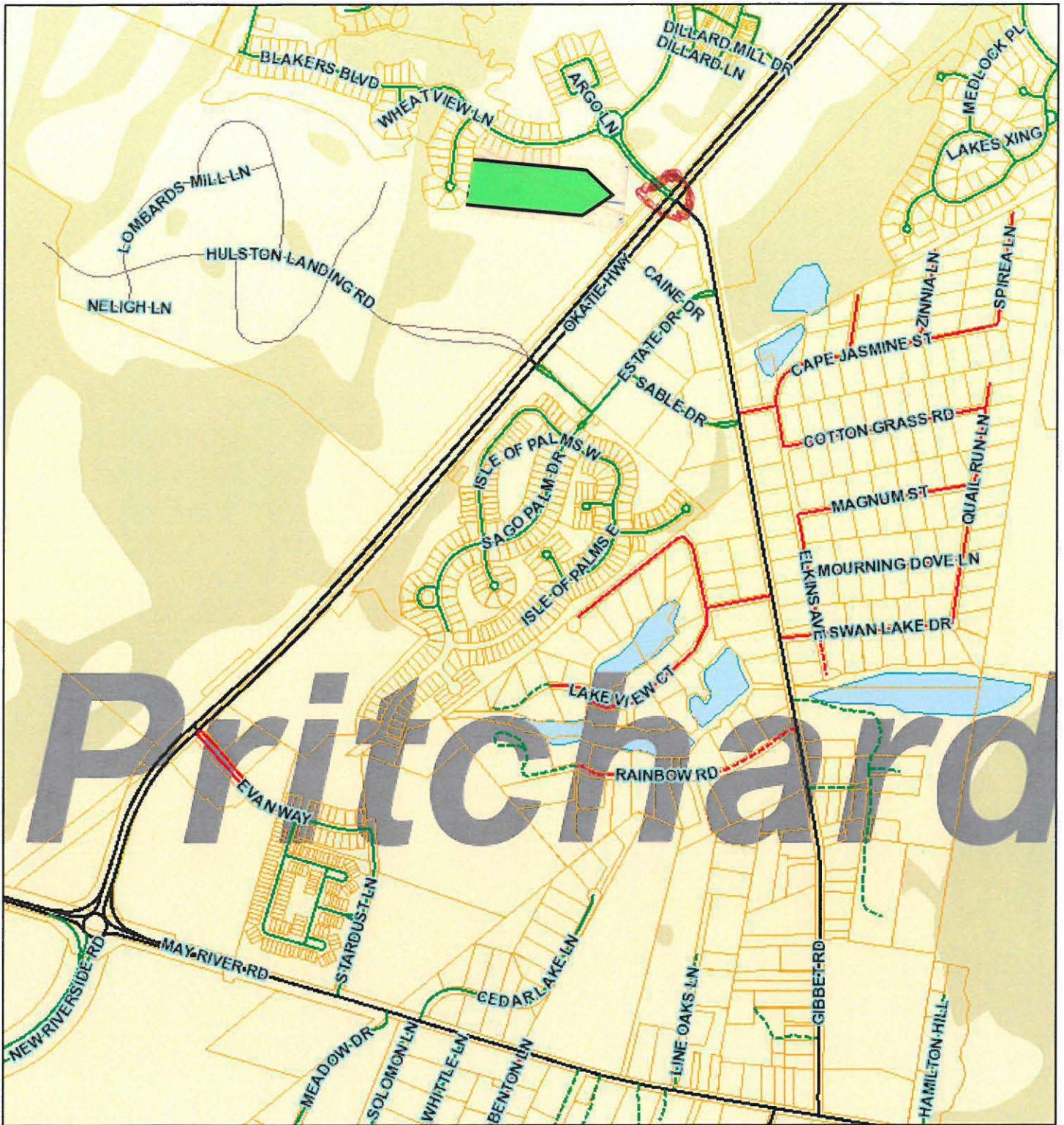
ACTION. Public Facilities Committee Meeting on May 18, 2015.

RECOMMENDATION. The Public Facilities Committee approve and recommend to County Council a contract award to W M Roebuck, Inc., for \$154,449 for the new traffic signal installation at the intersection of SC 170 and Gibbet Road/Mill Creek. Additionally, approve and recommend to County Council a project contingency of 10% bringing the total budget to \$169,893 with funding as outlined above.

CK/mjh

Attachments: 1) Bid Certification
2) Location Map

SC 170 - GIBBET ROAD INTERSECTION



May 14, 2015

1:14,225

Road Classifications

— <all other values>

— STATE, PAVED

--- STATE, UNPAVED

— COUNTY, PAVED

--- COUNTY, UNPAVED

— PRIVATE, PAVED

--- PRIVATE, UNPAVED

--- PRIVATE, UNDETERMINED

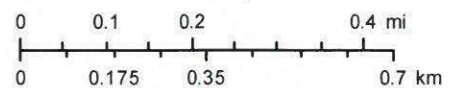
— TOWN, PAVED

--- TOWN, UNPAVED

— MILITARY / PAVED

--- MILITARY / UNPAVED

□ Parcels



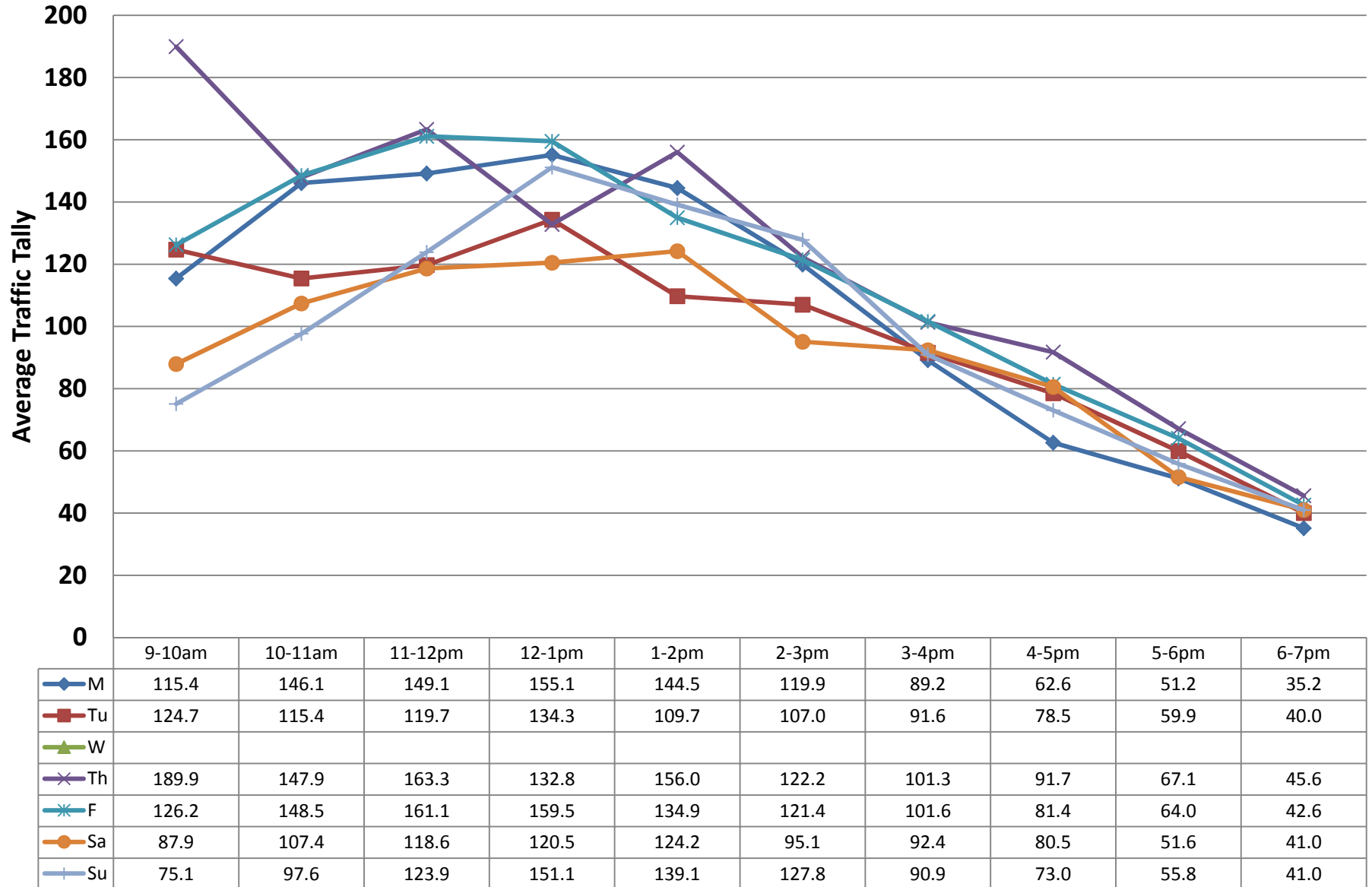
Convenience Center Traffic Analysis

**Prepared for
Public Facilities Committee
Beaufort County Council
May 18, 2015**

**Beaufort County Public Works
Solid Waste and Recycling Section**

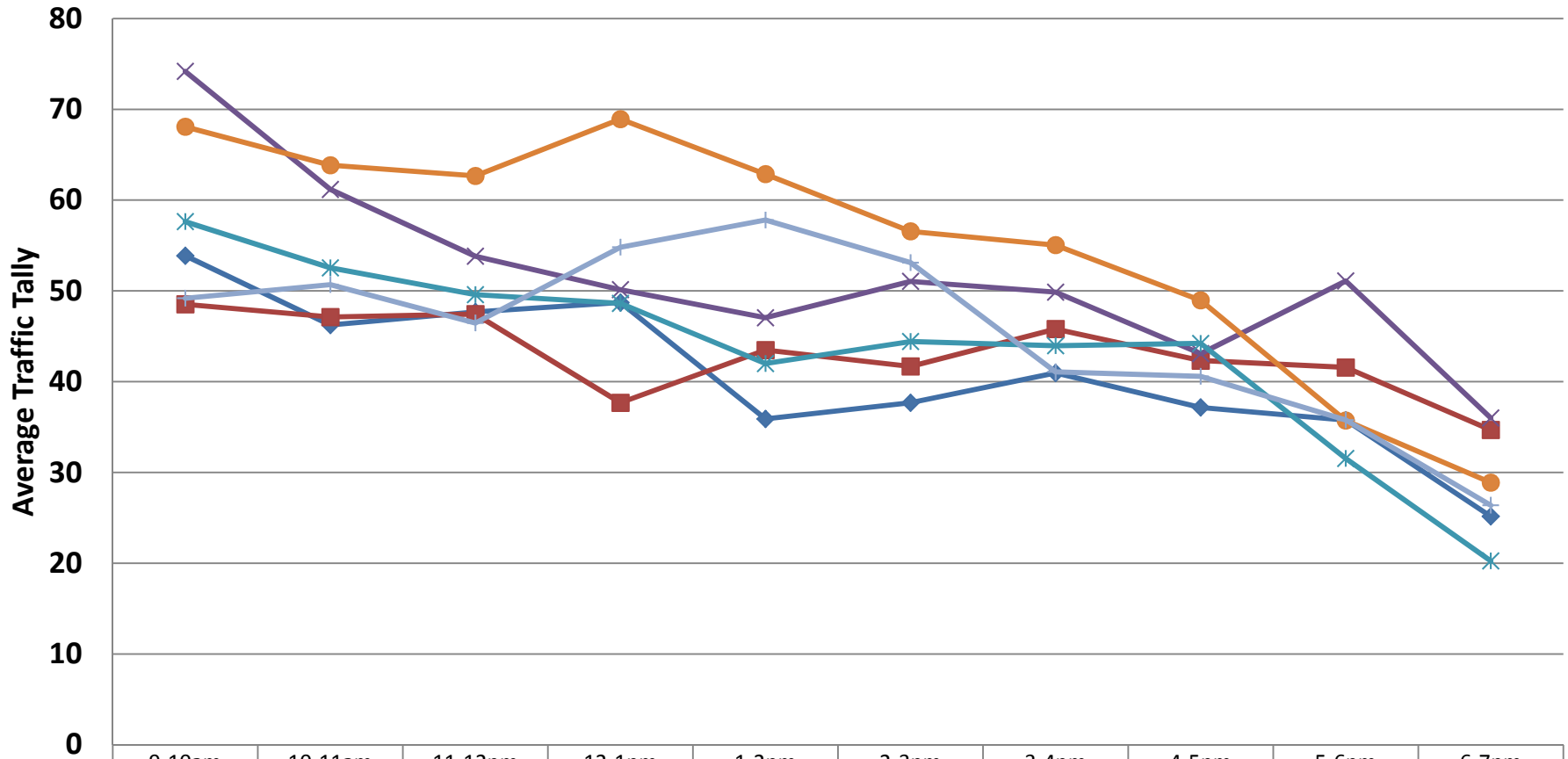
Bluffton Average Hourly Traffic Tally Data

10/5/2014 – 3/31/2015



Gate Average Hourly Traffic Tally Data

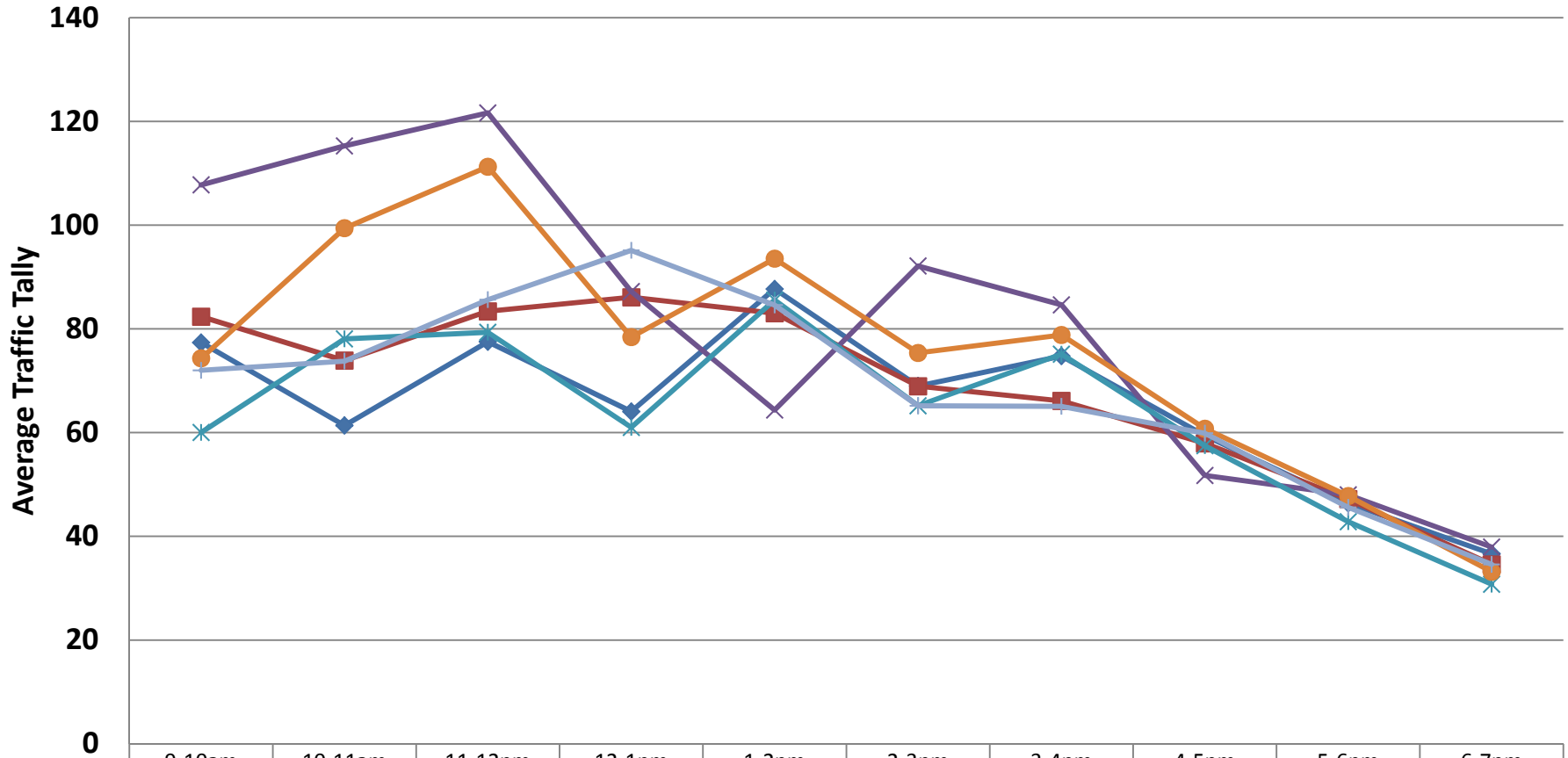
10/5/2014 – 3/31/2015



	9-10am	10-11am	11-12pm	12-1pm	1-2pm	2-3pm	3-4pm	4-5pm	5-6pm	6-7pm
—◆— M	53.9	46.2	47.7	48.7	35.9	37.7	41.0	37.2	35.8	25.2
—■— Tu	48.5	47.1	47.4	37.7	43.5	41.7	45.8	42.3	41.6	34.7
—▲— W										
—×— Th	74.2	61.2	53.8	50.1	47.0	51.0	49.9	43.1	51.1	36.0
—*— F	57.6	52.5	49.6	48.6	42.0	44.4	44.0	44.2	31.5	20.3
—●— Sa	68.1	63.8	62.7	68.9	62.9	56.6	55.0	49.0	35.7	28.9
—+— Su	49.2	50.7	46.5	54.8	57.8	53.1	41.1	40.6	35.8	26.4

Hilton Head Average Hourly Traffic Tally Data

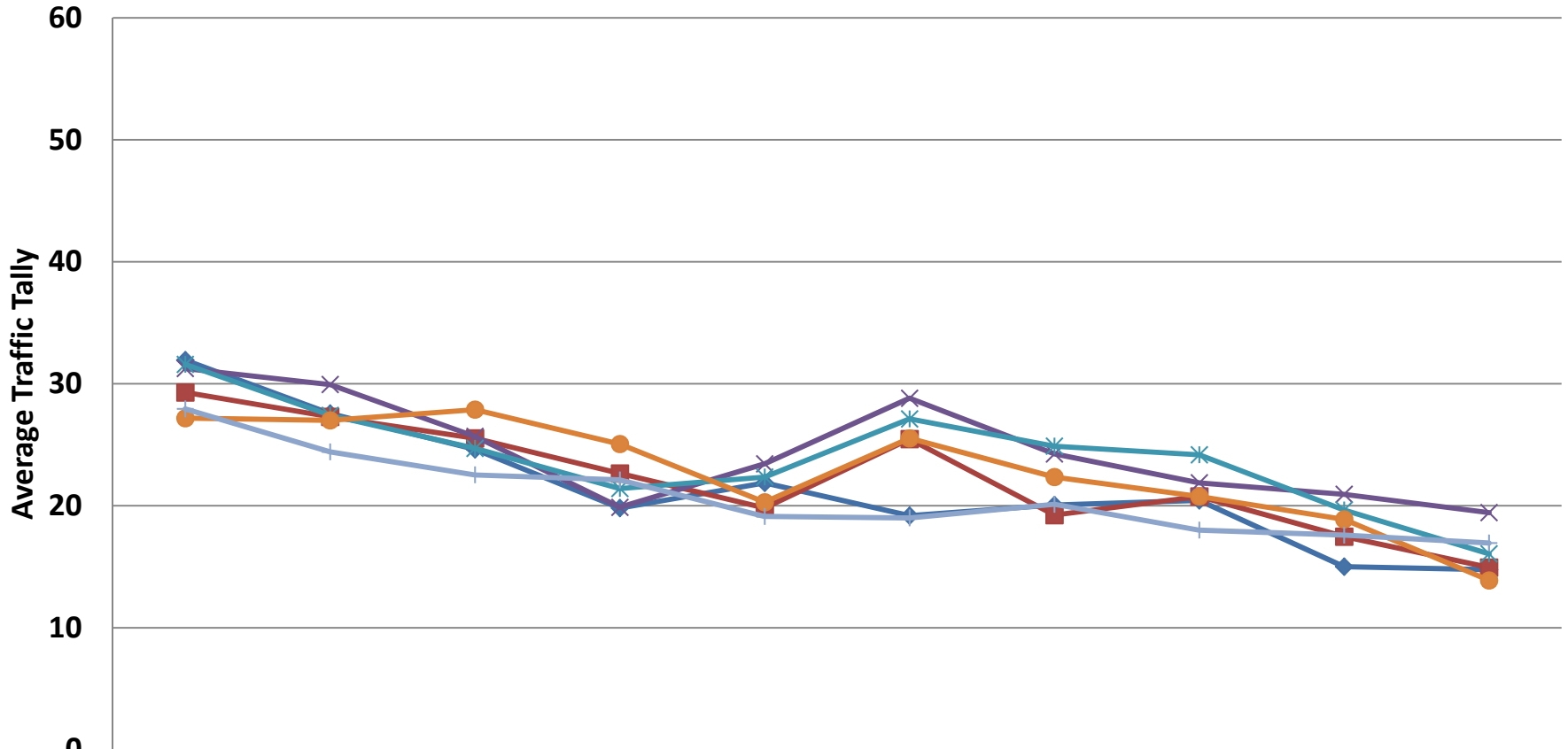
10/5/2014 – 3/31/2015



	9-10am	10-11am	11-12pm	12-1pm	1-2pm	2-3pm	3-4pm	4-5pm	5-6pm	6-7pm
◆ M	77.4	61.4	77.5	64.1	87.7	69.0	74.8	59.4	46.4	36.6
■ Tu	82.4	73.9	83.4	86.1	83.0	68.9	66.1	57.9	47.2	34.6
▲ W										
✕ Th	107.8	115.3	121.6	87.2	64.4	92.1	84.6	51.7	48.0	37.9
* F	60.0	78.1	79.3	61.0	85.5	65.2	75.1	57.5	42.8	30.8
● Sa	74.3	99.4	111.3	78.4	93.5	75.4	78.8	60.8	47.8	33.2
+ Su	72.0	73.8	85.6	95.1	84.6	65.2	65.1	59.9	45.6	34.6

Lobeco Average Hourly Traffic Tally Data

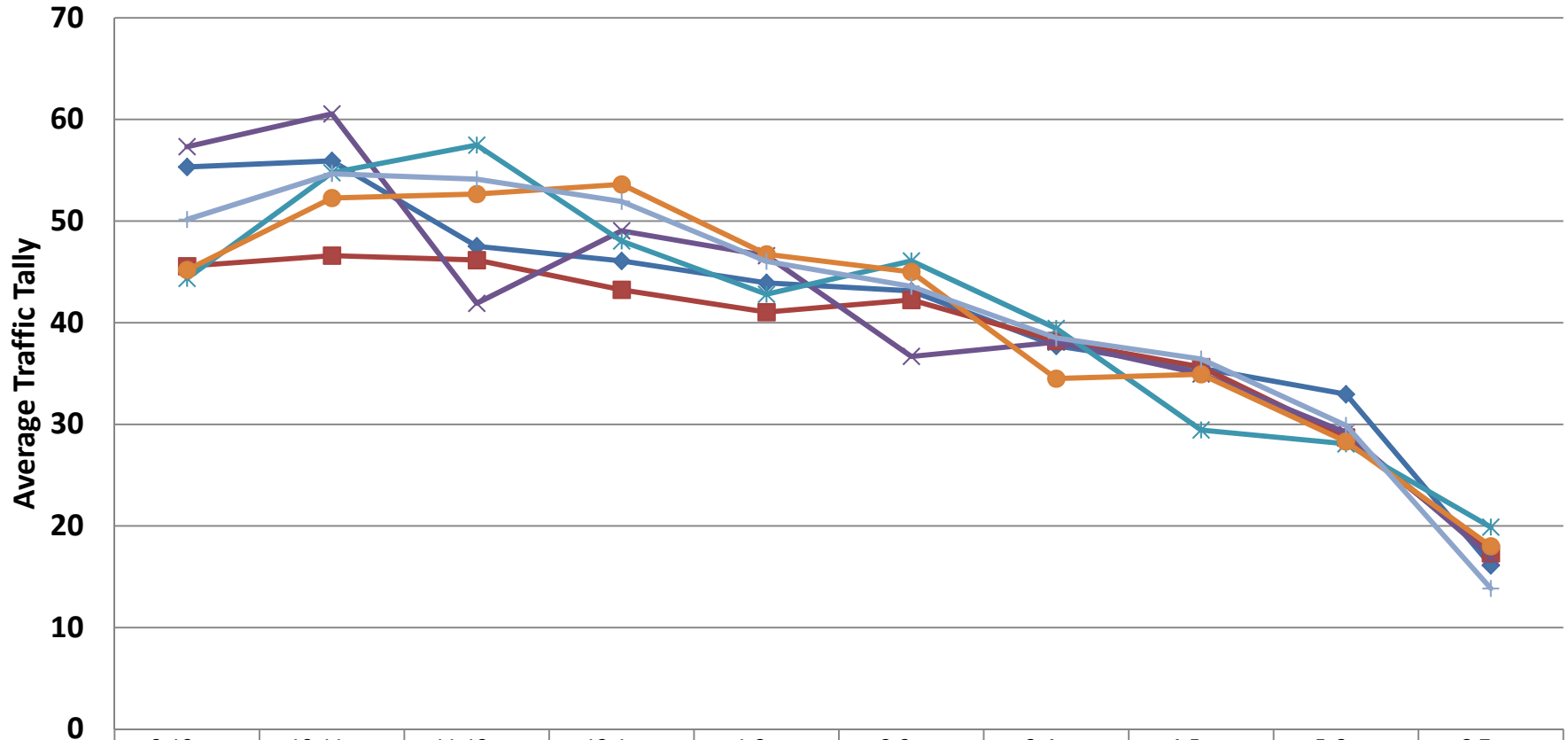
10/5/2014 – 3/31/2015



	9-10am	10-11am	11-12pm	12-1pm	1-2pm	2-3pm	3-4pm	4-5pm	5-6pm	6-7pm
—◆— M	31.9	27.6	24.6	19.8	21.9	19.2	20.1	20.4	15.0	14.8
—■— Tu	29.3	27.3	25.5	22.6	19.8	25.5	19.2	20.8	17.5	14.9
—▲— W										
—×— Th	31.3	29.9	25.7	19.9	23.4	28.8	24.3	21.9	20.9	19.4
—*— F	31.6	27.4	24.7	21.4	22.4	27.1	24.9	24.2	19.6	16.1
—●— Sa	27.2	27.0	27.9	25.1	20.3	25.5	22.4	20.8	18.9	13.9
—+— Su	27.9	24.4	22.5	22.1	19.1	19.0	20.1	18.0	17.6	16.9

Pritchardville Average Hourly Traffic Tally Data

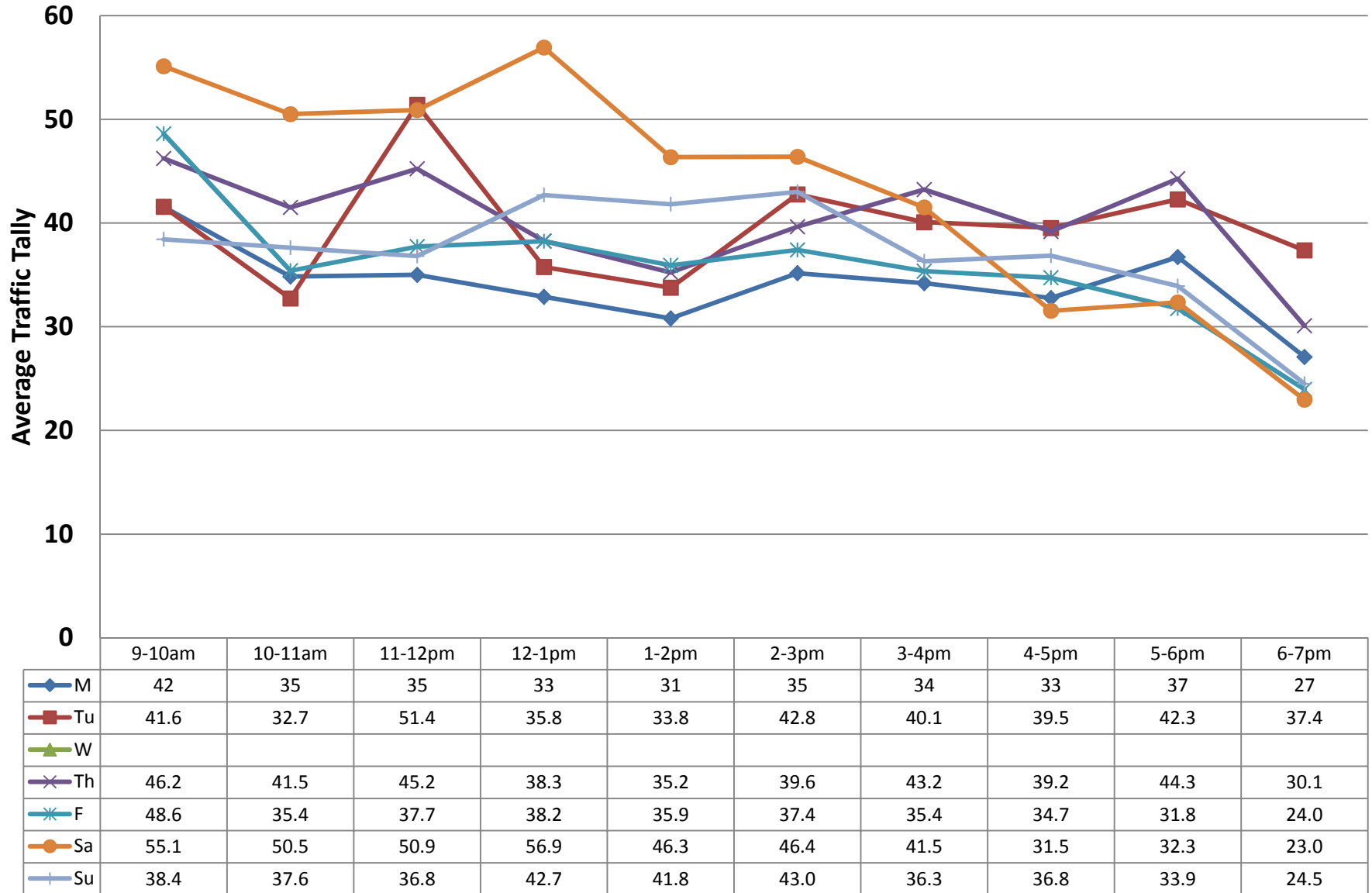
10/5/2014 – 3/31/2015



	9-10am	10-11am	11-12pm	12-1pm	1-2pm	2-3pm	3-4pm	4-5pm	5-6pm	6-7pm
◆ M	55	56	48	46	44	43	38	36	33	16
■ Tu	45.6	46.6	46.2	43.2	41.0	42.2	38.2	35.6	28.7	17.3
▲ W										
✕ Th	57.3	60.5	41.9	49.0	46.6	36.7	38.1	35.0	29.2	17.0
✱ F	44.4	54.8	57.5	48.0	42.8	46.1	39.4	29.4	28.1	19.9
● Sa	45.2	52.3	52.7	53.6	46.7	45.0	34.5	34.9	28.3	18.0
+ Su	50.2	54.7	54.1	51.9	46.0	43.6	38.5	36.4	29.9	13.8

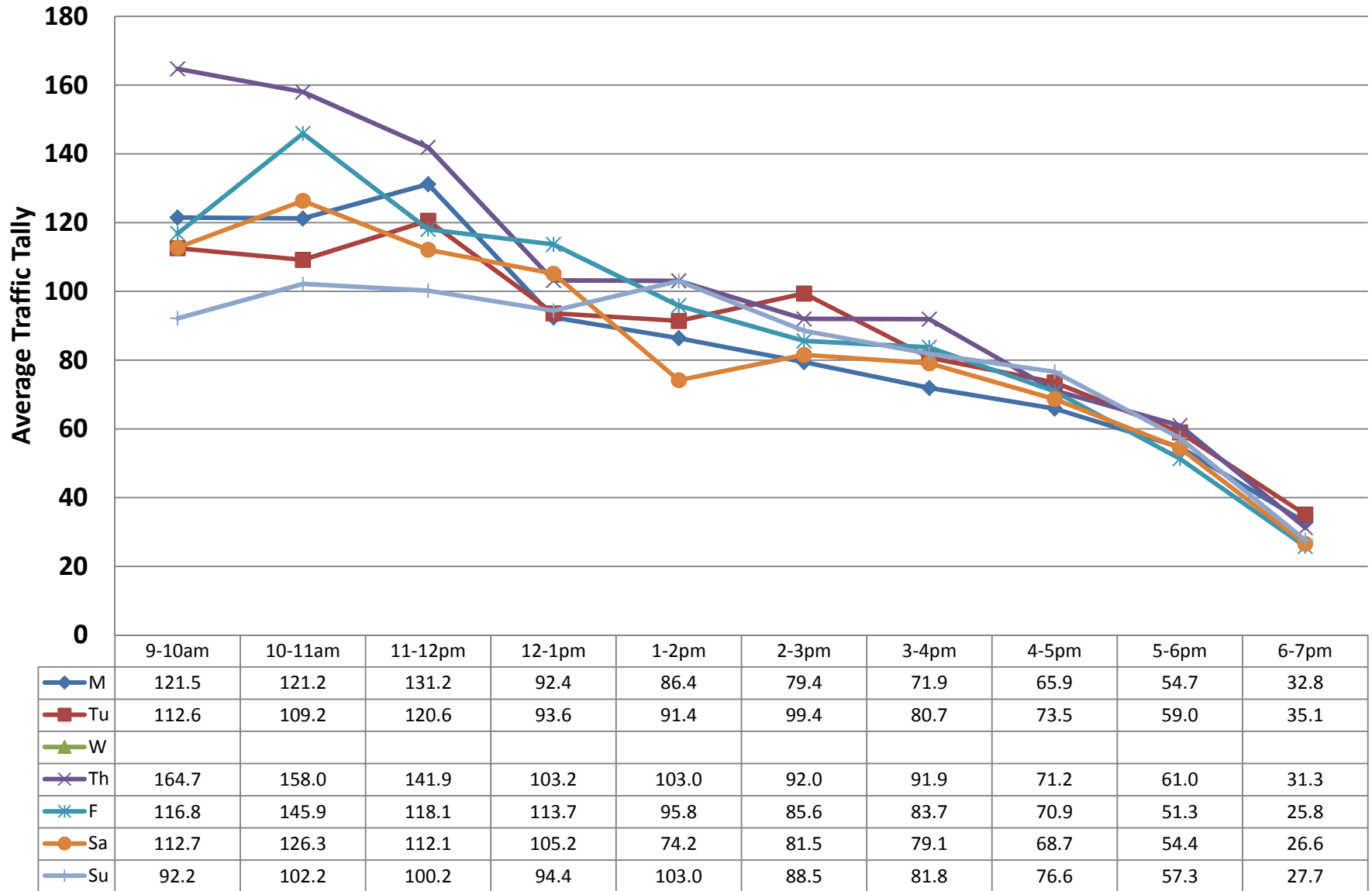
Shanklin Average Hourly Traffic Tally Data

10/5/2014 – 3/31/2015



St. Helena Average Hourly Traffic Tally Data

10/5/2014 – 3/31/2015



Conclusions

- Citizens have adapted to the new hours and traffic patterns have changed
- At the busier stations some citizens wait on Thursday mornings for the facility to open creating a rush or peak
- The new hours and being closed on Wednesdays provides staff the time to do a deeper level of maintenance on a rotating basis that is not feasible when the centers are open. It also provides a break in operations for a day allowing our hauling contractor to catch up, empty containers and prepare for the weekend.

Prepared Without Benefit
of Title Examination

TMP: R800 024 000 0124 0000

STATE OF SOUTH CAROLINA)	
)	QUIT-CLAIM DEED
COUNTY OF BEAUFORT)	

KNOW ALL MEN BY THESE PRESENTS, That I, the said **BEAUFORT COUNTY**, for and in consideration of the sum of TEN AND NO/100 (\$10.00) DOLLARS, and no other valuable consideration, in hand paid at and before the sealing and delivery of these presents by **UNION BAPTIST CHURCH** whose address is P.O. Box 7, Daufuskie Island, South Carolina 29915-0007, (the receipt whereof is hereby acknowledged) have remised, released and forever quit-claimed, and by these presents do remise, release, and forever quit-claim, subject to the easements, restrictions, reservations and conditions ("Exceptions") set forth below, unto the said **UNION BAPTIST CHURCH**, its successors and assigns forever, the following described property, to wit:

**SEE EXHIBIT "A" ATTACHED HERETO AND
INCORPORATED HEREIN BY REFERENCE**

THIS CONVEYANCE is made subject to any applicable restrictions, reservations, zoning ordinances or easements that may appear of record in the Office of the Register of Deeds for Beaufort County, South Carolina.

TOGETHER with all and singular the rights, members, hereditaments and appurtenances to the said premises belonging or in anywise incident or appertaining.

TO HAVE AND TO HOLD all and singular the said premises before mentioned unto the said **UNION BAPTIST CHURCH**, its successors and assigns, forever, so that neither **BEAUFORT COUNTY**, nor its successors and/or assigns, nor any other person, claiming under it, shall at any time hereafter, by any way or means, have, claim or demand any right or title to the aforesaid premises or appurtenances, or any part or parcel thereof, forever.

Witness my hand and seal this _____ day of _____, 2015.

Signed, Sealed and Delivered
in the presence of:

BEAUFORT COUNTY

witness

By:
Its:

notary as witness

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

ACKNOWLEDGMENT

I, _____, Notary Public for South Carolina do hereby certify that _____ of Beaufort County, personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this the ____ day of _____, 2015.

Notary Public for South Carolina
My Commission expires: _____

EXHIBIT "A"

All that certain piece, parcel or tract of land, with improvements thereon, situate, lying and being in a portion of Lot 31 Maryfield Plantation, located on Daufuskie Island, Beaufort County, South Carolina, and being more particularly shown designated as "2.00 Acres including Road R/W" and "1.43 Residual Acres" on a plat prepared by Southeastern Surveying, Inc., dated October 24, 1998, and not recorded in the Office of the Register of Deeds for Beaufort County, South Carolina. For a more detailed description as to the courses, metes and bounds, reference is made to the aforesaid plat.

The within Quit-Claim Deed was prepared without benefit of title examination.

THIS CONVEYANCE is made subject to any applicable restrictions, reservations, zoning ordinances or easements that may appear of record in the Office of the Register of Deeds for Beaufort County, South Carolina.

TOGETHER with all and singular the rights, members, hereditaments and appurtenances to the said premises belonging or in anywise incident or appertaining.

TO HAVE AND TO HOLD all and singular the said premises before mentioned unto the said **UNION BAPTIST CHURCH**, its successors and assigns, forever, so that neither **BEAUFORT COUNTY SCHOOL DISTRICT**, nor its successors and/or assigns, nor any other person, claiming under it, shall at any time hereafter, by any way or means, have, claim or demand any right or title to the aforesaid premises or appurtenances, or any part or parcel thereof, forever.

Witness my hand and seal this _____ day of _____, 2015.

Signed, Sealed and Delivered
in the presence of:

BEAUFORT COUNTY SCHOOL DISTRICT

witness

By:
Its:

notary as witness

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

ACKNOWLEDGMENT

I, _____, Notary Public for South Carolina do hereby certify that _____ of Beaufort County, personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this the ____ day of _____, 2015.

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My Commission expires: _____

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COUNTY COUNCIL OF BEAUFORT COUNTY
BEAUFORT COUNTY ENGINEERING DEPARTMENT
104 Industrial Village Road, Building #3, Beaufort, SC 29906
Post Office Drawer 1228, Beaufort, SC 29901-1228
Telephone: 843-255-2700 Facsimile: 843-255-9420

TO: Councilman Gerald Dawson, Chairman, Public Facilities Committee

VIA: Gary Kubic, County Administrator *Gary Kubic*
Josh Gruber, Deputy County Administrator
Alicia Holland, Assistant County Administrator for Finance *AH*

FROM: Robert McFee, PE, Division Director of Facilities & Construction Engineering *Robert McFee*

SUBJ: **Construction Engineering Inspection/Construction Management (CEI/CM) Services for SC 170 Widening Project – April 2015**

DATE: May 13, 2015

BACKGROUND. In 2012, County Council awarded a contract for \$2,030,714 to Infrastructure Consulting & Engineering (ICE) for construction engineering inspection/construction management services (CEI/CM) for the SC 170 Widening Project. Due to the construction delays associated with the SC 170 project, the CEI/CM services needed to be extended. For the month of March 2015, ICE had CEI/CM service charges for the SC 170 widening totaling \$66,221.89. County Engineering Department staff has reviewed these charges and recommend payment.

AH **FUNDING.** SC 170 Widening Sales Tax Project Acct #33403-54500 with an available balance of \$258,374.86 at 5/13/15. All CEI/CM services are reimbursable from the SCSIB Grant for this project.

ACTION. Public Facilities Committee Meeting on May 18, 2015.

RECOMMENDATION. That the Public Facilities Committee approve payment of the April 2015 totaling \$66,221.89 CEI/CM Services performed by ICE for the SC 170 Widening Project.

JRM/mjh

Attachment: 1) ICE 5/8/15 Invoice

cc: Colin Kinton



BEAUFORT COUNTY ENGINEERING DEPARTMENT
CONTRACT DOCUMENT

CHANGE ORDER

TO:
Infrastructure Consulting & Engineers

CHANGE ORDER NO. 3
DATE: May 13, 2015
PROJECT: SC 170 Widening
Construction Management

ORIGINAL CONTRACT AMOUNT _____ \$ 2,030,714.00
TOTAL PREVIOUS CONTRACT CHANGES _____ 154,564.16
TOTAL PRIOR TO CURRENT CHANGE ORDER _____ 2,185,278.16
CURRENT CHANGE ORDER AMOUNT _____ 66,221.89
REVISED CONTRACT TO DATE _____ \$ 2,251,500.05
TO WHOM IT MAY CONCERN:

This CHANGE ORDER includes all Material, Labor and Equipment necessary to complete the following work and to adjust the total contract as indicated;

COST

In the amount of \$66,221.89

For additional construction management and construction engineering inspection services for the widening of SC 170. Invoice # 1221.30 dated 5/8/15 for period 1 thru 30 Apr 2015.

SCHEDULE N/A

APPROVALS

BEAUFORT COUNTY

CONTRACTOR'S REPRESENTATIVE

DIRECTOR OF FACILITIES &
ENGINEERING Robert McFee
DATE 5/13/15

COMPANY NAME ICE
AUTHORIZED BY _____
DATE _____



Infrastructure Consulting & Engineering
1691 Turnbull Avenue
North Charleston, SC 29405

Mr. Colin Kinton
 Beaufort County Engineering
 102 Industrial Village Rd
 Bldg 3
 Beaufort, SC 29902

May 08, 2015
 Project No: 12-21
 Invoice No: 1221.30

Project 12-21 SC 170 CEI #07-036938A

Professional Services from April 01, 2015 to April 30, 2015

Phase	FO	Field Office
Task	AD	Admin

Professional Personnel

	Hours	Rate	Amount	
Schwartz, Carol	161.00	19.50	3,139.50	
Totals	161.00		3,139.50	
Total Labor				3,139.50

Reimbursable Expenses

Mileage-Personal Vehicle				
4/2/2015	Schwartz, Carol	Manager, Progress Visit & onsite visit	27.12	
4/9/2015	Schwartz, Carol	SC170 progress meeting	16.95	
4/10/2015	Schwartz, Carol	SC170 County Asphalt meeting	2.83	
4/16/2015	Schwartz, Carol	SC170 manager & progress meetings	19.78	
4/23/2015	Schwartz, Carol	SC170 progress meeting	16.95	
Field Supplies & Equipment				
4/23/2015	Schwartz, Carol	HMA	112.76	
	Total Reimbursables		196.39	196.39

Additional Fees

Overhead Rate	127.77 % of 3,139.50	4,011.34	
Fee	10.00 % of 7,150.84	715.08	
Total Additional Fees		4,726.42	4,726.42

Total this Task \$8,062.31

Task	IN	Inspection
------	----	------------

Professional Personnel

	Hours	Rate	Amount	
Durham, Michael	137.00	35.50	4,863.50	
Peek, Justin	158.50	19.75	3,130.38	
Totals	295.50		7,993.88	
Total Labor				7,993.88

Consultants

Sub Consultant				
4/30/2015	F&ME Consultants, Inc	Professional Services	3,951.08	
	Total Consultants		3,951.08	3,951.08

Reimbursable Expenses

Hotel/Lodging				
4/1/2015	Peek, Justin	SCE&G	88.45	
4/6/2015	Peek, Justin	Studebaker	27.67	
4/7/2015	Carlton, Frann	Ashton Pointe	1,467.00	
4/7/2015	Carlton, Frann	Ashton Pointe	1,191.00	
	Total Reimbursables		2,774.12	2,774.12

Unit Billing

Communication				
4/30/2015	J. Peek Cell Phone @ \$70.00		70.00	
4/30/2015	M. Durham Cell Phone @ \$70.00		70.00	
Vehicle				
	J. Peek Trk Allow @ \$875	1.0 Vehicle @ 875.00	875.00	
	M. Durham Trk Allow @ \$875	1.0 Vehicle @ 875.00	875.00	
	Total Units		1,890.00	1,890.00

Additional Fees

Overhead Rate	127.77 % of 7,993.88	10,213.78		
Fee	10.00 % of 18,207.66	1,820.77		
	Total Additional Fees	12,034.55	12,034.55	
			Total this Task	\$28,643.63

 Task PM Project Management

Professional Personnel

	Hours	Rate	Amount	
LeMin, Marc	100.50	65.87	6,619.94	
Wertz, Alan	61.50	62.02	3,814.23	
Totals	162.00		10,434.17	
Total Labor				10,434.17

Reimbursable Expenses

Hotel/Lodging				
3/31/2015	Wertz, Alan	SCE&G - Alan Power	58.28	
4/3/2015	Wertz, Alan	Studebaker - Alan Water	19.19	
4/7/2015	Carlton, Frann	Ashton Pointe	1,208.00	
Site Office Rent/Utilities				
1/27/2015	Coastal Capital Leasing	Beaufort, SC	395.21	
	Total Reimbursables		1,680.68	1,680.68

Unit Billing

Communication				
4/30/2015	A. Wertz Cell Phone @ 50% of \$70.00		35.00	
4/30/2015	M. LeMin Cell Phone @ 50% of \$70.00		35.00	
Mileage Rate				
	M. LeMin Mileage	1,932.0 Miles @ 0.56	1,081.92	

Vehicle				
	A. Wertz Trk Allow @ 50% of \$875		0.5 Vehicle @ 875.00	437.50
	Total Units			1,589.42
				1,589.42
Additional Fees				
	Overhead Rate	127.77 % of 10,434.17		13,331.74
	Fee	10.00 % of 23,765.91		2,376.59
	Total Additional Fees			15,708.33
			Total this Task	\$29,412.60
			Total this Phase	\$66,118.54

Phase	MO	Main Office
Task	AD	Admin

Professional Personnel				
		Hours	Rate	Amount
	Besosa, Hollis	1.00	35.58	35.58
	Totals	1.00		35.58
	Total Labor			35.58
Additional Fees				
	Overhead	164.04 % of 35.58		58.37
	Fee	10.00 % of 93.95		9.40
	Total Additional Fees			67.77
			Total this Task	\$103.35
			Total this Phase	\$103.35
			Total this Invoice	\$66,221.89



 William Coleman, III, P.E.

Buckwalter Parkway Access Management Plan with Regards to Proposed Commercial Development along Buckwalter Towne Boulevard

May 11, 2015

Purpose

The purpose of this report is to reflect on the current conditions of Buckwalter Parkway, discuss the steps necessary to evaluate the information associated with continued development of the Buckwalter Tract and recommend improvements to serve existing and projected traffic volumes with potential development and roadway improvement projects.

Description of the Area

Buckwalter Parkway is within the Buckwalter Tract which was annexed into the Town of Bluffton in 2000. Development of parcels within the Buckwalter Tract is governed by a development agreement with the Town of Bluffton. Land uses are governed by the Town of Bluffton zoning code and development agreement.

Buckwalter Parkway is a Beaufort County roadway constructed in its present alignment in 2007. Buckwalter Parkway provides two travel lanes in each direction separated by a raised landscaped median. The speed limit on Buckwalter Parkway is posted at 45 mph. Traffic counts for 2014 averaged 21,000 vehicles per day (VPD) between Lake Point Drive and Hampton Hall. Between Buckwalter Place Boulevard and US 278, the 2014 traffic volume averaged 13,000 vpd. Between Hampton Hall and May River Road, the 2014 traffic volume averaged 9,500 vpd. Traffic volumes are much higher between Lake Point Drive and Hampton Hall because of the overlap of both Bluffton Parkway and Buckwalter Parkway.

Presently, there are six traffic signals on Buckwalter Parkway:

- US 278
- Buckwalter Place Blvd
- Bluffton Parkway/Buckwalter Towne Blvd
- Lake Point Dr
- Bluffton Parkway/Hampton Hall
- May River Rd

Background

5 Traffic Studies have been completed over last 15 years on this segment of roadway

1. *Phase I of Buckwalter Commons – Trip Generation and Analysis*, by Thomas and Hutton Engineers, April 2001 [Did not address any traffic signal needs. Did assume Business Park and Residential uses where Buckwalter Towne Blvd connects. Did assume 30% trips between Residential and Business Park].
2. *Bluffton "Town Center" Municipal Site/May River Technical Park – TIA*, by Thomas and Hutton Engineers, January 2006 [Study serves as the TIA Document for development of Bluffton Tech Park, Care Core, et al].
3. *Access Management Plan: Buckwalter Parkway*, by SRS Engineering, May 2007 [Establishes traffic signal spacing requirements and guidelines adopted by both Beaufort County and Town of Bluffton, includes recommendation of moving traffic signal for the Bluffton Parkway/Buckwalter Parkway intersection when Bluffton Parkway 5B is constructed to maintain minimum distances between warranted signals. Recommended minimum spacing of 2,000 ft].
4. *Signal Warrant Analysis for The Market at Buckwalter Place*, by SEPI Engineering Group, September 2007 [Establishes need and basis for installing traffic signal for Buckwalter Parkway at Buckwalter Place Boulevard intersection serving Publix and Care Core].
5. *Signal Warrant Analysis – Bluffton Parkway at Buckwalter Towne Boulevard*, by Beaufort County Traffic Engineering, September 2013 [Evaluated only existing traffic volumes present with proposed construction of Bluffton Parkway 5B. Did not project any future volumes].

Existing Conditions Utilizing the Approved Access Management Plan

- The existing conditions on Buckwalter Parkway include traffic signals at Buckwalter Place Boulevard, Bluffton Parkway/The Townes and Lake Point Drive/Parkers.
- The existing average spacing of the traffic signals is 1,340 ft which is close to $\frac{1}{4}$ mile spacing of traffic signals. Traffic signal spacing's of average $\frac{1}{4}$ mile are typically the minimum in order to provide for progressive flow of movement along a high volume corridor. The 2007 Access Management Plan's recommended minimum spacing is 2,000 ft based on projected volumes.
- Assuming the construction of Bluffton Parkway segment 5B, the intersection of Bluffton Parkway at Buckwalter Parkway will become a critical intersection for moving traffic both east/west and north/south. Having traffic signals at distances significantly less than recommended can have impacts on the operations of this key intersection.
- If a signal remains to serve Buckwalter Towne Boulevard after construction of Bluffton Parkway Phase 5B, the result would be four traffic signals within 2,640 ft ($\frac{1}{2}$ mile). The average signal spacing would be reduced to 660 ft, which is significantly less than a minimum of $\frac{1}{4}$ mile spacing. The shortest distance would be only 600 ft between Buckwalter Towne Boulevard and Bluffton Parkway.
- The existing traffic signals will remain in place because of need and safety until Bluffton Parkway Phase 5B is constructed.

- Typically, traffic signals are not removed that are warranted or would result in an unsafe situation. Beaufort County would ensure safety of motorists is properly evaluated before removal of a traffic signal.
- Under County and Town ordinances, proposed developments are required to complete traffic impact studies (TIA) to determine proposed trip generation, impacts on the roadway network and recommend mitigation of their anticipated impacts. To date, no new development has completed a TIA for commercial development along Buckwalter Towne Boulevard (or submitted a development permit).
- Alternative mitigation methods should also be examined and considered because of the anticipated unacceptable spacing of traffic signals. Mitigation could include inter-parcel connectivity to the north and south, median modification to control unsafe traffic movements and improvements to encourage alternative safe movements (u-turns).
- Multi-lane roundabouts have been suggested by others as an alternative to traffic signals for both Buckwalter Towne Boulevard and Lake Point Drive. Roundabouts have significant safety performance features and are preferred traffic control under many situations. However, roundabouts located between closely spaced traffic signals should be carefully evaluated before firm commitments are made as they could also result in traffic congestion and gridlock into adjacent signalized intersections.
- Stop sign control on Buckwalter Parkway does not necessarily mean an unsafe intersection. There are several unsignalized intersections on Buckwalter Parkway that have similar traffic to Buckwalter Towne Boulevard. Examples include Woodbridge, Shell Hill, Pine Crest, Pinckney Colony Rd at US 278 and Eagle's Point at US 278.
- Because of current traffic growth in the Buckwalter area, Beaufort County is programming expansion and upgrades to the signalized intersection of Bluffton Parkway/Buckwalter Towne Blvd to best serve growing traffic demand.

Other Highway Corridors

- The recommended minimum signal spacing for Bluffton Parkway is 2,640 ft (1/2 mile).
- The recommended minimum signal spacing for US 278 is 3,600 ft (approximately 1/2 mile).
- The City of Savannah provided traffic signal spacing information for DeRenne Avenue between Montgomery Street and Harry S Truman Parkway. The average spacing between traffic signals on this corridor is 1,220 ft with a minimum spacing of 700 ft. The City of Savannah "wouldn't hold [DeRenne] up as a 'good' example due to the traffic volume and congestion on this roadway."
- The existing average traffic signal spacing on Boundary Street is 1,440 ft. The proposed average traffic signal spacing for Boundary Street with completion of the proposed project will be 1,020 ft. The minimum spacing is 586 ft between Ribaut Road and Marsh Road, which provides access to the County Government Campus. Coordination of these two traffic signals is difficult and frequently results in traffic from one intersection backing into the other. We anticipate this problem to be more significant with continued development on the north side of the Marsh Road intersection.

Proposed Recommendations

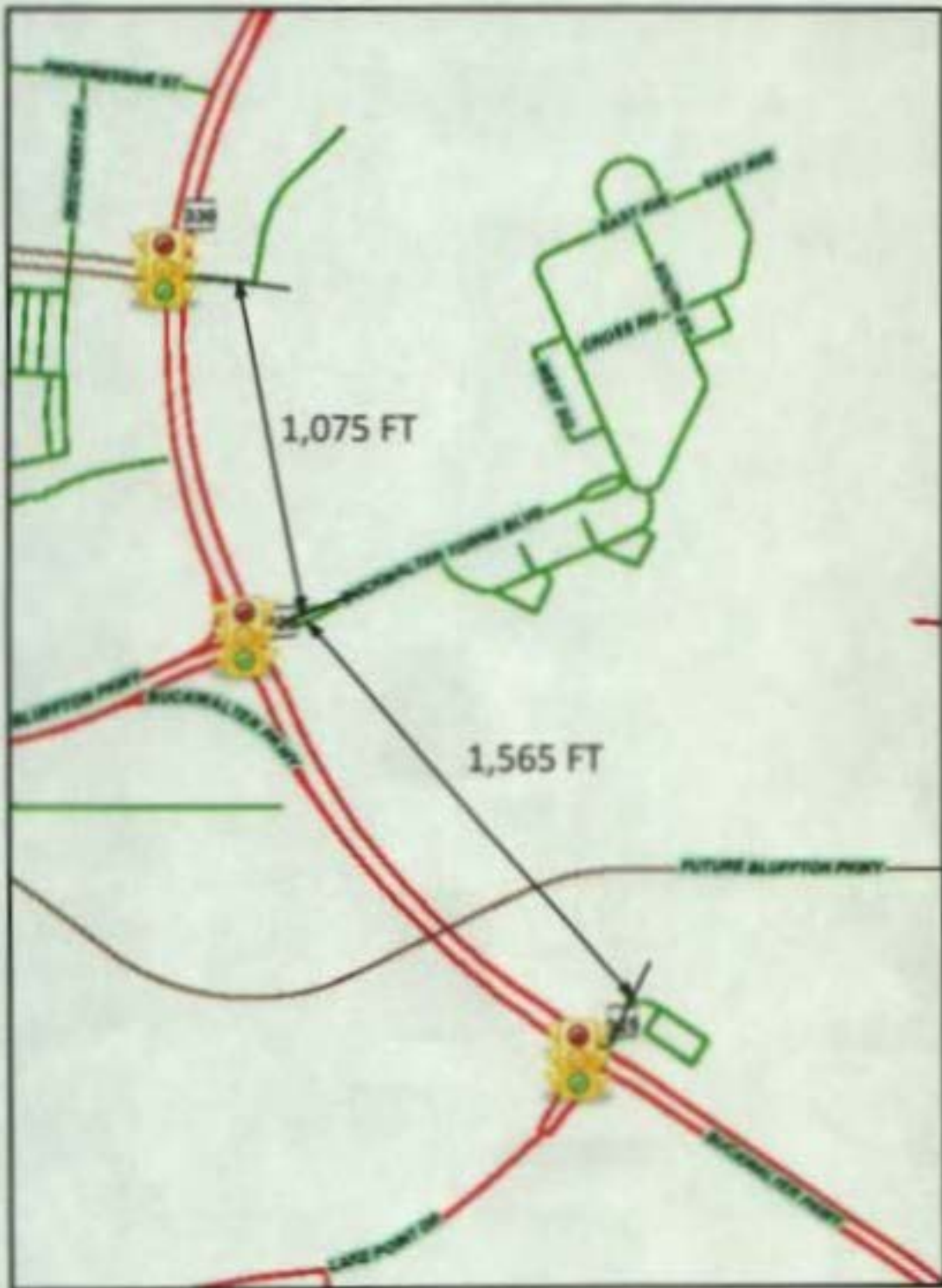
1. The existing signals will remain for the immediate future because of the Buckwalter Parkway/Bluffton Parkway intersection. Beaufort County will not remove a signal if determined such a decision would be unsafe and result in increased liability for the County or Town.
2. The proposed developers should conduct a TIA for their property to determine their impacts rather than speculation.
3. The Town and County should require connectivity to Bluffton Parkway SB and the Buckwalter Place Boulevard traffic signal (Lord of Life Lutheran Church).
4. The Town and County should consider a median modification to Buckwalter Towne Boulevard to prohibit left-turns exiting onto southbound Buckwalter Pkwy if and when SB is constructed. This would require anyone wanting to turn left to turn right and go up to Buckwalter Place Boulevard and complete a U-turn or continue down to Innovation Drive. Connectivity to SB would also improve access lost from elimination of left-turns. This would result in a route change of approximately 1,000 ft in order to make a U-turn at the next traffic signal.
5. Right-in/right-out and left-in movements (ex.: Sheridan Park, Plantation Business Park) would still be permitted.
6. Roundabouts should be thoroughly evaluated and considered due to their safety benefits. Because of the close spacing of signalized intersections and their likely influence, expert analysis would be necessary to determine if they would be an appropriate solution. Roundabout construction would be a more costly option and would require donation of right-of-way from adjacent developer property.
7. Leaving the existing signals and adding another signal for Bluffton Parkway SB would be the least desirable option because of the likelihood of congestion with the poor signal spacing. This would have to be thoroughly studied and warranted to ensure safe and efficient movements.

The above recommendations are similar to the Access Management Plan adopted for Bluffton Parkway at Buckwalter Crossroads at the SC 170/Bluffton Parkway intersection. The proposed Walmart will have no left-turn exit onto Bluffton Parkway but they do have access to SC 170 and connectivity to adjacent parcels.

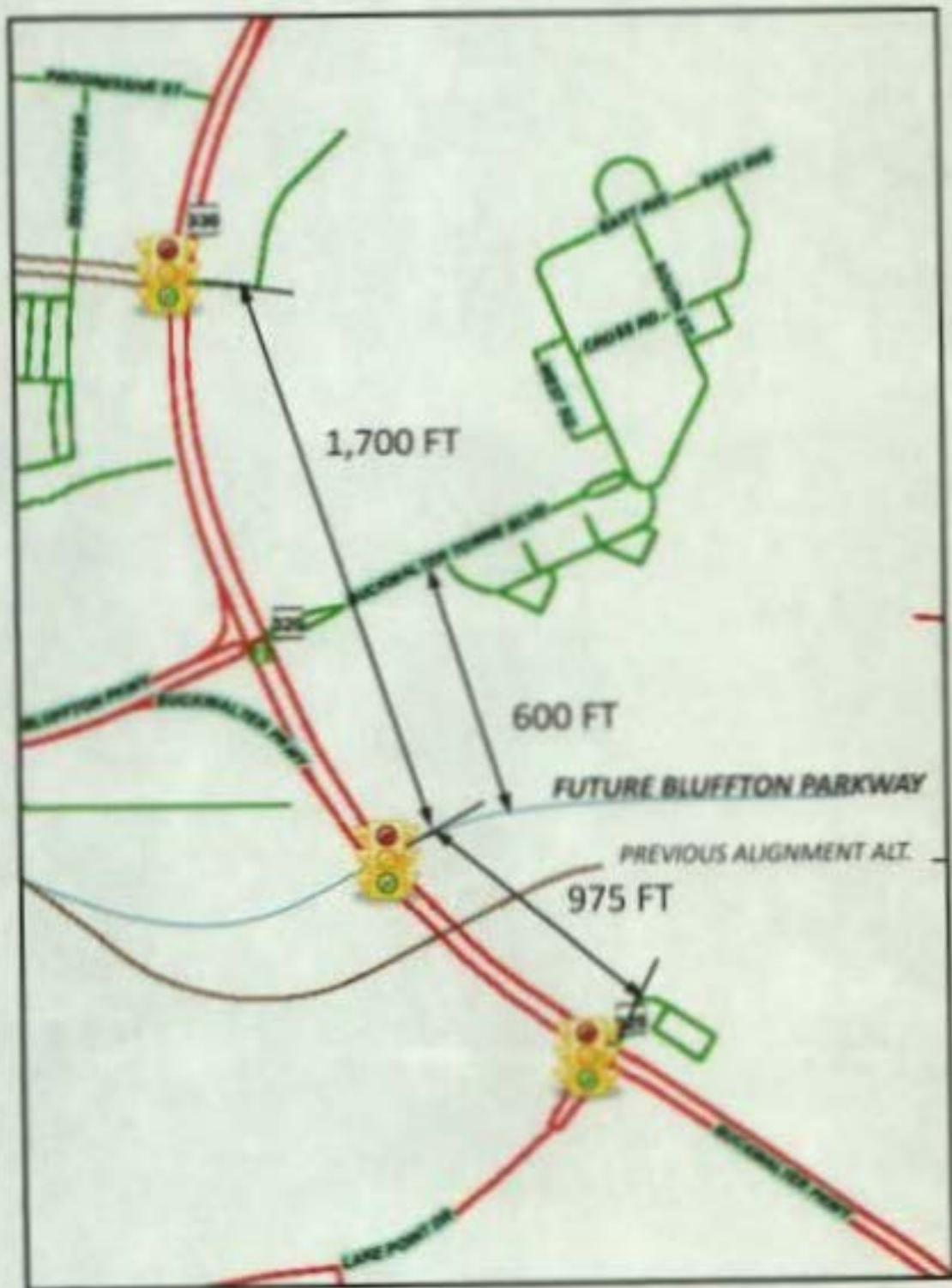
List of Exhibits

1. Buckwalter Parkway; Showing Proposed and Existing Traffic Signals
2. DeRenne Boulevard Traffic Signal Spacing
3. Bluffton Parkway SB Signal Spacing

EXISTING CONDITIONS

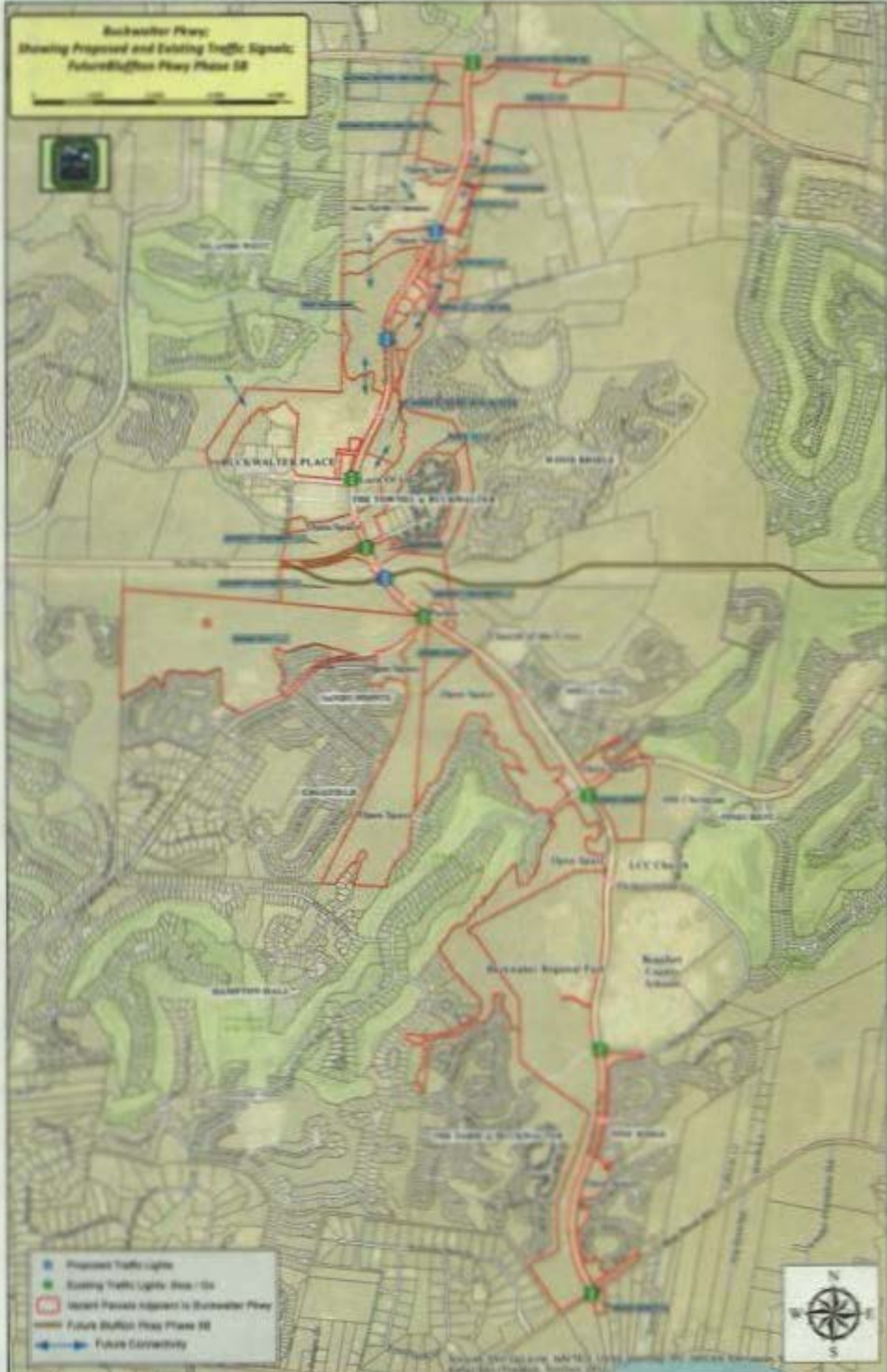


APPROVED NEW ALIGNMENT





**Buckwater Place:
Showing Proposed and Existing Traffic Signals
Future Traffic Flow Phase 2B**



- Proposed Traffic lights
- Existing Traffic Lights (See 10)
- Street Frontage adjacent to Buckwater Place
- Future Traffic Flow Phase 2B
- Future Connectivity

