

MAYOR
Michael L. Alvarez

MAYOR PRO TEM
David Cohn



TOWN COUNCIL
Gordon B. Daniels
Christopher M. King
Gary M. Savoie
David K. Waddell

Indian Trail Town Council Meeting
January 28, 2014
Civic Building
6:30 p.m.

1. **CALL MEETING TO ORDER AND PLEDGE OF ALLEGIANCE**
2. **ADDITIONS AND DELETIONS** **action**
3. **MOTION TO APPROVE AGENDA** **action**
4. **RESOLUTION URGING A COLLABORATIVE SOLUTION TO UCPS REDISTRICTING** – *this Item was requested by Council Member Daniels*
5. **PRESENTATIONS**
 - a. [Proclamation for Paul Belk](#)
 - b. [Proclamation for Kelvin Seabrooks](#)
 - c. [Traffic Calming 101](#)
6. **PUBLIC COMMENTS**
7. **PUBLIC COMMENTS FOR FY 2014/2015 BUDGET DEVELOPMENT**
8. **CONSENT AGENDA** **action**
 - a. [Approval January 11, 2014 draft Minutes](#)
 - b. [Approval of January 14, 2014 draft minutes](#)
 - c. [Approval of Budget Amendments](#)
 - d. [Approval of LGC 203](#)
 - e. [Approval of refund of overpayment of taxes over \\$500](#)
 - f. [Approval of Jan Deans application for Transportation Advisory Committee](#)

- g. Approval of PARTF Grant Application
- h. Approval of PARTF Resolution for Park & Recreational Improvement Program.
- i. Approval of Chestnut Parkway Mitigation Fee
- j. Approval of updated Capital Improvement Project Ordinance for Chestnut Parkway Mitigation Fee
- k. Amendment to the Construction, Engineering & Inspection Services for Unionville-Indian Trail Road Sidewalk Project
- l. Approval of updated Capital Improvement Project Ordinance for C-4957 Unionville-Indian Trail Road Sidewalk Project

9. PUBLIC HEARINGS

action

– Please adhere to the following guidelines:

- *Proceed to the podium, and state your name and address clearly;*
- *Be concise; avoid repetition; limit comments to three (3) minutes or less;*
- *Designate a spokesperson for large groups*

10. BUSINESS ITEMS

- a. Council Consideration of approval for traffic calming

11. DISCUSSION ITEMS

- a. Discussion on Town taking over Bonterra streets

12. MANAGERS REPORT

13. COUNCIL COMMENTS

14. CLOSED SESSION

action

15. ADJOURN

action

To speak concerning an item on the Agenda, please print your name and address on the sign up sheet on the table prior to the meeting. Each speaker will be limited to 3 minutes. AS A COURTESY, PLEASE TURN CELL PHONES OFF WHILE MEETING IS IN PROGRESS

The Town of Indian Trail is committed to providing all citizens with the opportunity to participate fully in the public meeting process. Any person with a disability who needs an auxiliary aid or service in order to participate in this meeting may contact the Town Clerk at least 48 hours prior to the meeting. The e-mail address is townclerk@admin.indiantrail.org; the phone number is 704-821-2541

Proclamation

Whereas, Paul Belk has been a lifelong resident of Union County and hales from a family that has been present in the area since prior to the Revolutionary War; and

Whereas, Paul has been medically retired from the Army National Guard after over 19 years of service to our nation serving as Chaplain Assistance in Iraq as well as other positions; and

Whereas, Paul has been a devoted husband for 22 years and is the father of 3 children Trevor 18, Cameron 13, and Savannah 11; and

Whereas, Paul has been a stroke victim since 2009, has overcome right side paralysis and severe speech impediment and went back to school in 2010; and

Whereas, Paul has shown immense courage by having gone from barely speaking and walking to walking better and his writing capabilities improve through the educational experience; and

Whereas, Paul is the Co-owner of Indian Trail's less Marketing helping local companies the word out about their services and offerings; and

Now Therefore, I Michael Alvarez, Mayor of Indian Trail, along with the Indian Trail Town Council congratulate Paul Belk on his being the recipient of the Help a Hero Scholarship of \$5,000. We wish him the best of luck in his future endeavors and thank him for his service.

WITNESS MY HAND and the official Seal of the Town of Indian Trail this 28th day of January, 2014

Mayor Michael Alvarez

Proclamation

Whereas, Kelvin J. Seabrooks is a former World Champion boxer at bantamweight, born and raised in Charlotte's Mecklenburg County; and

Whereas, Kelvin has changed the lives of countless young people through his Team Seabrooks program, he continues to work tirelessly with the youth of North Carolina showing them a better path in life by opening a youth and self defense program in Indian Trail; and

Whereas, Kelvin fought and won the United States Boxing Association bantamweight title and the International Boxing Federation bantamweight title; and

Whereas, Kelvin overcame, climbing off the canvas when winning both the USBA and IBF titles; and

Whereas, Kelvin traveled the world representing North Carolina in the boxing ring; and

Whereas, this month with the theme "honoring Champions in our Community" Kelvin will be recognized for his contributions to Indian Trail and North Carolina.

Now Therefore, I, Michael Alvarez, Mayor of Indian Trail, along with the Indian Trail Town Council congratulate Kelvin J. Seabrooks on his success and thank him for his contribution to our youth and community.

WITNESS MY HAND and the official Seal of the Town of Indian Trail
this 28th day of January, 2014

Mayor Michael Alvarez



Town of Indian Trail

Memo

TO: Mayor and Town Council

FROM: Scott J. Kaufhold, P.E., Director of Engineering and Public Works

COUNCIL DATE: January 28, 2014

SUBJECT: Traffic Calming 101

General Information:

The goals of Indian Trail's Neighborhood Traffic Calming Policy, adopted by Council on April 10, 2012, are to reduce speed on residential streets, rout cut-through traffic back to collector and arterial roadways, preserve emergency vehicle access, and increase safety for pedestrians. Staff will present to Council a brief overview of traffic calming.



Town of Indian Trail
Minutes of Town Council
Strategic Planning Session
January 11, 2014
Civic Building
08:30 A.M.

The following members of the governing body were present:

Mayor: Michael L. Alvarez

Council Members: David Cohn, Gordon Daniels, Christopher King, and Gary Savoie.

Absent Members: David Waddell.

Staff Members: Town Manager Joe Fivas, Town Attorney Keith Merritt, Town Clerk Peggy Piontek, Finance Director Marsha Sutton, Planning Director Shelley DeHart, Director of Community & Economic Development Kelly Barnhardt, Director Of Engineering and Public Works Scott Kaufhold and Communications Coordinator Lindsey Edmonds.

CALL MEETING TO ORDER AND PLEDGE OF ALLEGIANCE

Mayor Alvarez called the meeting to order and lead in the Pledge of Allegiance.

APPROVAL OF JANUARY 2, 2014 SPECIAL MEETING DRAFT MINUTES

Christopher King made a motion to approve January 2, 2014 minutes Council voted unanimously in favor of the motion.

ACCEPTANCE OF COUNCILMAN WADDELL'S RESIGNATION

Christopher King made a motion to approve Councilman David Waddell's Resignation, effective January 31, 2014.

Council voted unanimously in favor of the motion.

Mayor Alvarez announced that Council Member Waddell was not present for the meeting.

Mr. Fivas provided a brief overview of how the meeting will be conducted requesting any modifications from Council, none were stated.

PUBLIC COMMENTS FOR FY 2014/2015 BUDGET DEVELOPMENT

Shirley Howe, 6205 Clearwater Dr., Indian Trail, NC welcomed the two new Council Members. Ms. Howe commented on roads stating that the older developments need repair, providing specific issues in Beacon Hills. She addressed the quality of work being substandard requesting they be approved for repair in the upcoming budget. Code Enforcement needs additional staff to ensure appropriate enforcement, especially those that do not have an HOA requesting fast tracking Municipal Ordinances by late spring so they can be enforced. Ms. Howe concluded by asking Council to consider the safety needs in our parks by adding additional deputies in the budget.

Samantha Towns, 104 Pine Lake Drive, Monroe, NC addressed movement of funds in budget; she feels the codes used to accomplish this task should be published for the public to prevent criticism from residents. Ms. Towns requested Council address status of the North Carolina League of Municipalities because it was stated in the 2013 Budget highlights that there was pressure for municipalities cuts on State funding and would like information on where Indian Trail stands with regard to this.

Mayor closed public comments.

REVIEW OF BUDGET PROCESS

Mr. Fivas replied to Ms. Towns on the State funding pressures, stating that the legislators did discuss changes that would impact State funding, however they modified their budget in other areas and now are healthier than they were in the past.

Mr. Fivas advised that the Budget Schedule item will be on 1/14 agenda for approval, but reviewed it so Council can modify before it is presented. Mr. Fivas presented an overview on the budget process from incoming revenues to outgoing expenditures, Council's priorities for needs and goals working with residents. He requested that once the budget is delivered on May 5th, at that point it's the Council's

document and if there is something that they would like changed to please let staff know so it can be modified to accommodate within the statutory requirements.

STRATEGIC PLANNING SESSION

Mr. Fivas advised this is conveying what we have now and if we are headed in the right direction, if Council wants to go in a different direction, we would like to discuss it today.

Mr. Fivas advised that staff needs Council's input on whether or not to conduct a Phase I study on the property that we have been directed to purchase on Old Monroe Road and Chestnut Lane. The cost to conduct the study is \$1,800, although not required for purchase; once we purchase the property we take ownership of any environmental issues if no study is conducted. After a lengthy discussion, by consensus Council agreed that the Phase I study should be conducted.

Bonterra Village - Ms. DeHart provided an update and the history of the Bonterra Subdivision approval process. It was approved and annexed into the town in April 2001 as a mixed use project. Private streets were permitted allowing the lot definition to apply to middle of street. In 2006 the definition was amended but Phases I and II were approved prior to amendment.

Mr. Fivas advised that one of the questions we're getting is what we know about the streets and their condition, Mr. Kaufhold provided that information.

Mr. Kaufhold stated at the Town's request the developer provided over 60 pavement cores for the streets in Phase I and II, to find out how much asphalt and stone was used, nothing below that because it's not typical for as built conditions. We compared that to the Town standards and it was met at 100%, but 50-60% stronger than State requirements on average.

Mr. Fivas stated that we have been asked by the Bonterra HOA if we have any interest in taking over those private streets and making them public. One of the reasons is because there are other Phases of this neighborhood that will be built as public streets and they are trying to figure out the legalities. He stated that both he and Mr. Merritt have spoken with the HOA to determine if there is a legal way to do it. From a staff perspective we advised Bonterra HOA this has been done in the past with another subdivision by putting a tax assessment on their property to repay the funds. Staff informed Bonterra they would have to put a certain amount of money in a fund to repair those roads, when needed, at a later date. Mr. Fivas inquired if this is something Council wants to resolve.

Mr. Merritt advised the legal issue is that the homeowners own the property to middle of road, explaining this is unusual as property is generally owned by developer as fee simple. We need to get the property from residents if we wish to take over the road. One way is to get each property owner to convey that property to the town which would be cumbersome. The other way is that there are documents that the roads are considered to be common areas and that could be conveyed. The HOA would need to review those documents and get the residents to approve it. These are issues the HOA

has to deal with, they need to be in a position to convey the property to town and to date they have not accomplished it. Until that point is reached, there is no acceptance that the town has to consider. At one point they requested the town give a conditional approval that if these challenges are met we would consider taking over the roads. The problem is that the lot lines are in the middle of the roads and each homeowner needs to be dealt with by the HOA to resolve this.

Council had a lengthy discussion and requested it be put on the January 28th agenda for further discussion.

Mr. Merritt requested permission to leave the meeting as his services were no longer required, Council approved his leaving.

Update on current infrastructure projects & 5 year Transportation Plan

Mr. Fivas provided updates on Highway 74 intersections, Chestnut Parkway, Old Monroe Road. **(COPY OF THE POWER POINT CAN BE FOUND IN THE CLERK'S OFFICE)**

Park & Recreation

Ms. Barnhardt presented an overview of the Park and Recreation Plan for 2014-2015, topics included timelines and amenities planned for both Chestnut Square Park and Crooked Creek Park, concluding with the PARTF Grant application timeline, anticipation of sponsorships and donations and advising the master plan is being updated. **(COPY OF THE POWER POINT CAN BE FOUND IN THE CLERK'S OFFICE)**

Mayor Alvarez requested Council approval to leave the meeting for a short period, Council approved. Mayo Alvarez turned the gavel over to Mayor Pro Tem Cohn.

Communication

Ms. Edmonds presented a Communications Plan that will provide a guideline for the strategies and tactics that will be used to achieve the Town's communication goals and objectives. **(COPY OF THE POWER POINT CAN BE FOUND IN THE CLERK'S OFFICE)**

LUNCH

Council took and returned from a brief recess for lunch.

Economic Development

Ms. Barnhardt presented an overview of the 2014-2015 Economic Development Plan, explaining what economic development entails, the goals, objectives and development examples from other jurisdictions. **(COPY OF THE POWER POINT CAN BE FOUND IN THE CLERK'S OFFICE)**

Mayor Alvarez returned to the meeting.

CONTINUATION OF STRATEGIC PLANNING SESSION

Mr. Fivas explained staff's documented plans for the future and requested thoughts/ideas from Council. Requesting an intermediary plan. Council had a lengthy discussion, topics included 3 year strategic plan, understanding our current situation, our strengths and weaknesses, opportunities, threats, where do we want to go, communication, downtown area where it will be and what it should look like, how to get there, timelines, definition of organization mission and values, set goals on quality of services, public safety, quality places, park areas, and Grants.

CLOSED SESSION

None

ADJOURN

David Cohn made a motion to adjourn
Council voted unanimously in favor of the motion.

APPROVED:

Michael L. Alvarez, Mayor

Attest:

Peggy Piontek, Town Clerk



Town of Indian Trail
Minutes of Town Council
January 14, 2014
Civic Building
06:30 P.M.

The following members of the governing body were present:

Mayor: Michael L. Alvarez

Council Members: David Cohn, Gordon B. Daniels, Christopher King, and Gary M. Savoie.

Absent Members: David Waddell

Staff Members: Town Manager Joe Fivas, Town Clerk Peggy Piontek, Town Attorney Keith Merritt, Planning Director Shelley DeHart, Director of Community & Economic Development Kelly Barnhardt, Finance Director Marsha Sutton, Human Resources Director Carey Warner and Director of Engineering and Public Works Scott Kaufhold .

CALL MEETING TO ORDER AND PLEDGE OF ALLEGIANCE

Mayor Alvarez called the meeting to order and lead in the Pledge of Allegiance. He announced Council Member Waddell was not present.

Mayor Alvarez informed Council that several people signed up for public comments and requested permission to extend public comment period, Council approved.

ADDITIONS AND DELETIONS

None

MOTION TO APPROVE AGENDA

Christopher King made a motion to approve the agenda
Council voted unanimously in favor of the motion

PRESENTATIONS

a. Swearing in of Mayor Pro Tem

Town Clerk, Peggy Piontek administered the Oath to Mayor Pro Tempore David Cohn. **(COPY ATTACHED HERETO AND MADE A PART OF THE MINUTES)**

PUBLIC COMMENTS

Samantha Towns 104 Pinelake Drive, Monroe, NC stated that it is time to consider the town's image. She referred to the voting turnout in November and feels that Mr. Drehs should be appointed and recommended the Council follow the law to prevent any lawsuits.

Jonathan Baer requested his comments be recorded as verbatim, Council approved the request. A copy of the documents that Mr. Baer provided to the Clerk upon conclusion of his comments is **ATTACHED HERETO AND MADE A PART OF THE RECORD.**

Steven Long, 1012 Cranston Crossing Place, Indian Trail, NC stated that there are approximately 14 different openings on the town committees and boards. He urged citizens to take an application fill it out to take ownership and get involved. As far as replacing Mr. Waddell's seat, it should be done within the town charter. He referred to time shared with Charlotte Mayor Patrick Cannon, his shared ideals and goals especially with youth, economic growth, public safety and roads are a herald for us to realize ??? and take the plunge. If taxes and my love for this town are sure things.

Cathi Higgins, 3004 Clover Hill Road, Indian Trail, NC, reminded everyone that Mr. Baer did not state his address. Ms. Higgins addressed the appointment of the next council person, thanked Mr. Waddell for his service. Logically if this vacancy had occurred in November David Drehs would be sitting in that

chair right now. Residents voted only 2 months ago, she referred to the 500 voting residents who wanted to put David Drehs on the Council. She continued to express his qualifications.

Shirley Howe, 6205 Clearwater Drive, Indian Trail, NC advised that she wanted to speak on the upcoming open seat for the Town Council position and explained why she endorsed David Drehs, stating his credentials. Ms. Howe explained her point is that there is a movement to appoint the vacant seat to a female that should not be considered in her opinion. This would provide an open door for a preselected female or male to get a free ride to claim the Council seat and suggested Council not be fooled.

Roger Fish, 1101 Magna Lane, Indian Trail, NC feels the next 2-5 years will be critical in Indian Trail and it will be a wonderful time to be on the Council. He believes it's important that Council maintains their freedom of action on who to choose, but feels there is merit to look at Mr. Drehs, he has done his due diligence, has voter approval, and would be an asset to the Council.

Michael Faulkenberry, 519 Pickett Circle, Indian Trail, NC feels Mr. Drehs is the best choice for Mr. Waddell's seat and provided some background on him. He agrees with Mr. King that we should have holiday lights in Indian Trail. The representation for Alliance of South Charlotte Communities should be put up for discussion and applications taken just like any committee.

Jan Brown, 6727 Long Nook Lane, Indian Trail, NC would like Council to interview several people, requested he be considered and provided his background and credentials.

David Drehs, 3216 Bow Club Trail, Indian Trail, NC stated he appreciated the comments that have been made about him this evening. He listed comparisons between him and Mr. Waddell. He is willing to accomplish any procedures or jump through any hoops Council wants and believes he would be an asset to the Town.

PUBLIC COMMENTS FOR FY 2014/2015 BUDGET DEVELOPMENT

No one had signed up to speak.

CONSENT AGENDA

- a. Approval December 10, 2013 draft Minutes
- b. Approval of 2014/2015 Budget Schedule **(COPY ATTACHED HERETO AND MADE A PART OF THE MINUTES)**

Christopher King made a motion to approve the Consent Agenda
Council voted unanimously in favor of the motion

PUBLIC HEARINGS

a. Annexation 139 Lot 2 The Gardens

Ms. DeHart provided an explanation of what an annexation is and the process that is involved. Ms. DeHart then stated the subject property is located within "The Gardens at Brandon Oaks" within the unincorporated area of Union County. The subject property is developed with a single-family residential home. The parcel is approximately .179 acres in size, and is zoned Union County Residential-20 (R-20). This property is one of the two last remaining unincorporated county properties located within the Brandon Oaks Subdivision.

Ms. DeHart stated that the following consistency finding, pursuant to NCGS § 160A-31(d) regarding voluntary annexations in North Carolina, must be made for the annexation to be valid: The Town Council of Indian Trail finds that, pursuant to the requirements of NCGS § 160A- 31(d), that the proposed Annexation Ordinance #139 petition offered by the applicants does in fact meet all requirements for a proper voluntary annexation under North Carolina law and is found to be valid in form and manner.

Mayor Alvarez opened and closed public comments as no one had signed up to speak.

David Cohn made a motion to approve extending the corporate limits of the Town of Indian Trail to include Annexation Ordinance #139, establishing the effective date of this Annexation to January 15, 2014.

Council voted unanimously in favor of the motion. **(COPY ATTACHED HERETO AND MADE A PART OF THE MINUTES)**

b. ZT2013-005 Town Committee Reorganization

Mr. Burhans explained the UDO Text Amendment Process. Mr. Burhans stated that this is a request to amend several sections of the Unified Development Ordinance (UDO) to help implement the recent Town Council decision to repurpose the Parks, Tree, and Greenway Committee into the Parks, Arts, Recreating, and Culture Advisory Committee. The repurposing action created the need for a standalone Tree Advisory Committee. Town staff has proposed having members of the Planning Board staff the new Tree Advisory Committee.

The Planning Board met on December 17, 2013 to hear the proposed amendment in a public meeting, made the following findings and unanimously voted to transmit a recommendation to approve:

1. The proposed UDO amendment is consistent with the following goal:

2.3.3 of the Comprehensive Plan- *Parks and Recreation, Open Space, and Natural Environment* because it will help facilitate creation of the Tree Advisory Committee, which will be focused on providing advisory services to help protect the Indian Trail tree canopy and natural environment. The proposed amendments will also help ensure guidance related to parks, art, recreation, and cultural enrichment is provided by the PARC Committee, whose mission and expertise is tailored to these areas.

2. This UDO ordinance amendment is in the best interest of the public because it helps facilitate the creation of focused, advisory committees that will ensure that Town Council, staff, and citizens are provided with meaningful and informed guidance.

Mayor Alvarez opened and closed Public comments as no one signed up to speak.

Mayor Alvarez asked Council to reopen public comments for Mr. Fish - Council agreed.

Roger Fish explained the purpose of having a Tree Committee, the history and importance of our trees and ensuring their protection concluding that the PARC Committee agrees with this request.

Mayor Alvarez again closed the public comments portion of the hearing.

David Cohn made a motion to approve the required findings for ZT2013-005 and Comprehensive Plan Consistency Statement as previously read into the record and found in the Draft Ordinance Council voted unanimously in favor of the motion. **(COPY ATTACHED HERETO AND MADE A PART OF THE MINUTES)**

David Cohn made a motion to approve text amendment ZT2013-005 Council voted unanimously in favor of the motion

BUSINESS ITEMS

None

DISCUSSION ITEMS

- a. Discussion on process to fill ABC Board position

Mr. Fivas inquired what is the process Council wants to go through to select the individual, providing what has been accomplished in the past. Stating that if there is a change now would be the time to do so. By consensus Council agreed to continue as has been done previously.

- b. Discussion on filling vacant Council seat

Mr. Merritt read the statute and advised there is no prescribed method on how the seat is filled. He provided some history on the last 2 vacancies. Ultimately recommending that Council adopts some procedure and follow that. Council had a lengthy discussion on this topic.

David Cohn made a motion to approve the first runner up from the November elections to be the person that the Council appoints after January 31st.

Motion resulted in a tie:

2 in favor -Chris King and David Cohn

2 Opposed – Gordon Daniels and Gary Savoie

Mayor Alvarez broke the tie in favor of the motion, the motion passed.

c. Discussion on PARTF Grant

Mr. Fivas provided an update on the grant advising it will be on the consent agenda on January 28th, if there are any questions it's imperative that Council ask prior to that meeting because if it doesn't get approved on that date we won't get it in on time to meet the January 31st deadline.

d. Discussion on Representative for Alliance for South Charlotte Communities

Mr. Fivas advised that this is another appointee that the Council can choose to represent Indian Trail. He requested what process Council wants to perform to fill that position.

Mr. Savoie stated this is an important position and recommends opening it up, see what applicants we receive to get the best person sitting there. By consensus Council agreed, and doing it within 30 days maximum 60 days was suggested by Mr. Daniels.

MANAGERS REPORT

None

COUNCIL COMMENTS

Mr. King had no comments.

Mr. Daniels stated that in his opinion the process is what it is. This is tough process to pick a person to fill this seat, but it's an appointment and not an election. The election ended and this is a new process, we have to look at it as such. If we try to take one process and fit it into another process he believes is wrong. If we want to get the best possible person and that person is the person we've been discussing this evening that will become evident.

Mr. Cohn said he believes it was done the right way, the residents spoke and that's the way they wanted it done. To comment that's not the clean way to do it is shocking that an election is not the clean way to do it. Five people interviewing each applicant for 10 minutes and deciding who should be picked is not the clean way to do it; it's the least transparent way to do anything. He knows for a fact that emails are sent influencing people. He believes the people choose who they wanted; he thanked Mr. King and Mayor Alvarez for doing the right thing. He's hopeful that we will do the right thing in February. The people made the decision and we can't be any more transparent than that.

Mayor Alvarez stated that budget season is in full gear, urging Council to have a couple of public hearings. We need to review all policies and charters, close loopholes and bring to modern times, making sure policies are in order and transparent. Couple of items that need to be addressed is Public Comments and Law Enforcement. He will be putting an item on the agenda for the upcoming meetings and feels it's important to have the committees report to Council so we know what they're doing and provide them support, law enforcement as well. On the Tree Committee he likes the idea of adding beautification to their agenda.

Mr. Savoie state that his comments were not against Mr. Cohn, it was about creating a policy to have a guideline to go forward with.

CLOSED SESSION

None

ADJOURN

Christopher King made a motion to adjourn
Council voted unanimously in favor of the motion

APPROVED:

Michael L. Alvarez, Mayor

Attest:

Peggy Piontek, Town Clerk





TO: Mayor and Town Council
FROM: Joe Fivas
CC: Marsha Sutton
DATE: January 28, 2014
SUBJECT: Budget Amendments for January 28th Meeting

Please find attached budget amendments processed through January 22, 2014. Please feel free to call, email, come in or ask any questions you may have regarding these matters.

**TOWN OF INDIAN TRAIL
BUDGET TO BUDGET AMENDMENT REQUEST**

DATE

1/2/14

DEPARTMENT

Various

Account Number	(Transfer In / Out) Type	Amount	Account Name <u>Description</u>
10-00-4120-397-000	In	4,100 ⁰⁰	Contract Services
10-00-4120-260-000	Out	4,100 ⁰⁰	Office Supp. & Materials
10-00-5000-325-000	In	50 ⁰⁰	Postage
10-00-5000-343-000	In	50 ⁰⁰	Printer/Copier Usage
10-00-5000-185-000	Out	100 ⁰⁰	Unemp. Insurance
10-20-4510-396-000	In	750 ⁰⁰	
10-20-4510-397-000	Out	750 ⁰⁰	Contract Services
10-40-4910-396-000	In	400 ⁰⁰	Filing Fees
10-40-4910-491-000	Out	400 ⁰⁰	Dues & Subscriptions
10-40-4920-315-000	In	100 ⁰⁰	Business Expenses
10-40-4920-493-000	In	200 ⁰⁰	Event Expenses
10-40-4920-397-000	Out	300 ⁰⁰	Contract Services
10-40-4920-493-000	In	410 ⁰⁰	July 4th Parade
10-40-4920-493-000	Out	410 ⁰⁰	Community Events

Adm
|
HR
|
Eng.
|
Planin
|
Comm & Econ
Devs
|

EXPLANATION:

Reallocate funds within Departments

REQUESTED BY:

FINANCE:

Maisha A. Sutton

TOWN MANAGER:

[Signature]

For Finance Dept Only:

EFFECTIVE DATE: 1-2-14 JOURNAL NO. ASSIGNED: 398

FISCAL YEAR: 2014 ENTERED: MAM

PERIOD: 7 DATE: 1-2-14



TO: Mayor and Town Council
FROM: Joe Fivas
CC: Marsha Sutton
DATE: January 28, 2014
SUBJECT: LGC-203 Report of Deposits and Investments

As required by the Town's Cash Management Policy, attached is a copy of the LGC-203 report submitted to the LGC (Local Government Commission) during the month of January for the period ending December 31, 2013.

This report is a semi-annual report of all cash and investments held by the Town. The LGC reviews these reports to determine:

- All funds are in authorized depositories and properly collateralized/secured
- All investments are permitted by General Statute
- The average maturity of investments are appropriate for the Town

This report is submitted to you for informational purposes and no action is required.

State of North Carolina
 LOCAL GOVERNMENT COMMISSION
 325 North Salisbury Street, Raleigh, North Carolina 27603-1385
 REPORT OF DEPOSITS AND INVESTMENTS

Report Period

As of: **DECEMBER 31** 2013

(June 30 or December 31, and Year)

(As required by G.S. 159-33 and G.S. 115C-446)

Name of Unit ** **INDIAN TRAIL**
 ** Note - Discretely Presented Component Units must submit separate LGC-203 reports
 Legal Name of Unit: **Town of Indian Trail**

LGC Use Only		
Unit Code	Unit Type	Rec'd Date
191	A	

CERTIFICATION

This is to certify that the data contained in this report is accurate to the best of my knowledge and belief.

Name of Official (Type or print your name)	Unit Mailing Address - Street	Telephone Number, including area code
		Number Extension
Marsha G. Sutton	P. O. Box 2430	704-821-5401
Title (i.e. Finance Officer, Treasurer, etc)	Unit - City, State & Zip Code	Email Address
Finance Director	Indian Trail, NC, 28079	financedirector@admin.indiantrail.org
		Signature of Official (only if mailing or faxing)

I. Cash on hand

	Amount	
Petty cash funds and change funds	\$ 850	
Undeposited receipts		
		Total Cash on Hand
		\$ 850

II. Dedicated Method Financial Institutions

** If you have additional deposits in Dedicated Banks (non-pooling), you must use the LGC-203 Standard Form

	C.D.s	Interest Bearing Checking Accounts	
FINISTAR (dedicated amounts) attach statement or leave blank if NA			
CDARS - attach statement or leave blank if NA			
Totals for Finistar and CDARS	\$ -	\$ -	Total Dedicated Deposits \$

III. Pooling Method Financial Institutions

** LIST ONLY BANKS INCLUDED ON POOLING BANK MEMO

One line for each Bank - please provide totals for each Bank

	Demand Deposits (Non-interest bearing)		Time Deposits	Interest Bearing Checking Accounts	
	Regular Savings	C.D.s			
(1) Branch Banking & Trust			\$ 278,504	\$ 5,290,757	
(2) First Citizens Bank & Trust Company	\$ 164,989		\$ 132,778		
(3) Park Sterling Bank			\$ 1,501,554		
(4) Yadkin Valley Bank			\$ 213,595		
(5)					
FINISTAR (pooling amounts) attach statement or leave blank if NA					Total Pooling Deposits
Totals for All Pooling Banks	\$ 164,989	\$	\$ 2,126,431	\$ 5,290,757	\$ 7,582,177

IV. Investments NCCMT

	Amount
North Carolina Capital Management Trust Cash Portfolio	\$ 7,871,317
North Carolina Capital Management Trust Term Portfolio	\$ 14,373,896

V. Summary: Please recheck totals.

(1) Total Cash on hand (TOTAL FROM SECTION I)	\$ 850
(2) Total Dedicated Method (TOTAL FROM SECTION II)	\$
(3) Total Pooling Method (TOTAL FROM SECTION III)	\$ 7,582,177
(4) Total cash (lines 1, 2 & 3 combined)	\$ 7,583,027
(5) NCCMT (TOTAL FROM SECTION IV)	\$ 22,245,213
(6) Total cash and investments (lines 4 plus 5)	\$ 29,828,240
(7) Please enter (subtract) Unexpended bond and/or note proceeds	\$ -
(8) Net cash and investments (line 6 minus 7)	\$ 29,828,240



TO: Mayor and Town Council
FROM: Joe Fivas
DATE: January 28, 2014
SUBJECT: Tax Refunds greater than \$500

Please find attached copies of tax refunds greater than \$500.00

1. Owens, KL - \$550.60 refunded to mortgage company as taxes were previously paid by attorney.
2. Sunbelt Rentals - \$5637.47 refunded to taxpayer. Union County taxes were incorrectly included in payment.
3. Millendorf, Jack - \$552.60 refunded to mortgage company as taxes were previously paid by attorney.
4. Powell, Michael - \$557.89 refunded to mortgage company as taxes were previously paid by the mortgage company.
5. Brucia, Flavia - \$570.62 \$557.89 refunded to mortgage company as taxes were previously paid by the mortgage company.
6. Waste Pro - \$1302.60 refunded to taxpayer as they are not the property owner.
7. Casper, David - \$1170.94 refunded to taxpayer as taxes were previously paid by attorney.
8. Qin, Wenlong - \$546.77 refunded to taxpayer as taxes were previously paid by attorney.
9. Harrell, Dean - \$2716.63 refunded to taxpayer as taxes were previously paid by attorney.
10. Old Monroe Development - \$581.44 refunded to taxpayer as taxes were previously paid by attorney.
11. Centex Homes - \$505.20 refunded to mortgage company as taxes were previously paid by attorney.
12. FS Development - \$753.98 refunded to taxpayer as payment was for incorrect parcel.

If you need any clarification on any of these items, please feel free to contact Marsha Sutton at (704) 821-5401.

Town of Indian Trail

Memo

TO: Mayor and Town Council

FROM: Jason Tryon, Assistant Director
of Parks and Recreation

DATE: January 23, 2014

SUBJECT: PARTF Grant Update



As discussed at the January 11, 2014 strategic planning meeting and at the January 14, 2014 Council meeting, we are providing the final PARTF grant application for Councils consideration for approval. The PARTF project deadline is January 31, 2014. Town staff has worked collaboratively with Woolpert and PARTF staff to complete this application. The total amount the Town is requesting in grant funds is \$200,000. If the Town's application is approved by the PARTF board, the Town will have to match \$203,650. These funds will either be budgeted in the Town's 2014/2015 budget and/or use the Town's half cent tax levy for parks. In the future, if the Council sells additional park bonds they can be reimbursed for these grant expenses.

This document includes the following:

- Project description
- Project justification
- Project costs
- Capital improvement plan.

If you have any questions or would like to review other documents please contact Jason Tryon at Jtryon@Admin.Indiantrail.org or 704-821-4207.

Project Description & Justification
For Crooked Creek Park
Indian Trail, NC

Project Description

Crooked Creek Park is a new regional park currently under construction and is slated for completion in October/November of 2014. This first phase, which includes four first-class baseball fields and central sportsplex building, will be the catalyst for future phases of the park. These future phases will include a regional playground, soccer complex and nature center. The first phase of this park has been funded by the town and is directly related to Indian Trail's rapidly growing population. The town has established itself as an expanding community with more and more young, growing families. Creating public amenities, such as parks and greenways, is a fantastic way to bring and bond communities together.

To maximize and attract a wide array of users, the town, as supported by area residents, plans to construct the following facilities in the next phase of development:

- *Dog Park*
- *Trailhead Kiosk*
- *Sensory Water Attraction*
- *Carolina Thread Trail Extension with Connector Trails (+/- 1,800')*
- *9-Hole Disc Golf Course*

Project Justification

With little to no large parks within a 10 mile radius of Indian Trail, Crooked Creek will be a premier location for an assortment of outdoor activities. One of the main reasons for seeking PARTF assistance with this project is to connect the park to the Carolina Thread Trail. Currently, the trail has 135 miles open to the public in North and South Carolina. Ultimately, the trail will connect 15 counties and more than 2.3 million people. Crooked Creek will be a great addition to the many destinations along the Trail. The economic impact of having the Thread Trail connect to Crooked Creek Park is substantial, not just for residents, but for a return on investment for the Trail as well. The following is an excerpt from "The Potential Economic Impacts of the Proposed Carolina Thread Trail" (Econsult Corp. & Greenways Inc.):

- *"An estimated 305,000 housing units will be directly affected by the proposed trail (they are in the "affected zone").*
- *The average projected benefit per house is estimated to be approximately \$3,580.*
- *Over 50% of all homes in the affected zone are projected to appreciate by the maximum benefit of \$4,500.*
- *The total dollar gain in property values is forecast to be \$1.7 billion in the "affected zone".*
- *This represents an approximate 4% increase in the value of the entire housing stock.*

- *If this gain is accurately capitalized and assessed, this should yield an aggregate incremental increase in property tax revenues of approximately \$17 million per year.*
- *The Net Present Value of this revenue stream is approximately \$261 million (using a discount rate of 5% over 30 years, which would roughly correspond to the period associated with any bond issue to finance the proposed improvements)."*

With the ability to advertise that Crooked Creek Park is a destination along the Thread Trail, this will instantly put Indian Trail on the map as a green, sustainable, and healthy community.

The other attractions requested for PARTF assistance are equally important on a local level. The proposed dog park is a much needed commodity for local residents and allows pets and their owners a safe haven from other park goers. The additional connector trails will help establish the eventual 3+ miles of walking/running trails. This will enable the park to be completely walkable. The trailhead kiosk will allow trail users a safe starting/ending point away from traffic. The 9-hole disc golf course will eventually become 18 holes, which will be another great addition to a growing sport in the Charlotte area. Lastly, the water sensory attraction will be a part of the eventual regional playground. This area will allow children to escape the high energy playground area and engage themselves in a safe, therapeutic, sensory water experience.

The project area is located in the Piedmont physiographic province. The project tract is approximately 2.5 miles east of the town of Indian Trail in Union County, North Carolina. It is located east of U.S. Highway 74 off of Gray Fox Road.

Project Costs

Use the format below to show the costs of your project. Include the title of the project, the name of the local government and the date the document was prepared.

Project Costs Crooked Creek Park Improvements- Indian Trail, NC

December 2013

Project Elements	Unit	Unit Cost	Total Item Cost
Building and/or Renovating Costs			
Dog Park (2 areas, 6 foot fence, 2 water fountains, 3 benches)	Lump Sum	\$75,000	\$75,000
Walking Trail – 10’ wide, paved trail	1800 LF	\$20 / LF	\$36,000
Trail Head Kiosk	Lump Sum	\$10,000	\$10,000
9 Disc Golf Course (includes conc pads, tees and baskets)	Lump Sum	\$50,000	\$50,000
Spraypad/Interactive Water play attraction	Lump Sum	\$100,000	\$100,000
Site Preparation (clearing, grading, and erosion control)	10 acres	\$3,000	\$30,000
Water, Sewer and Electric Utilities	Lump Sum	\$50,000	\$50,000
Costs to Develop the Project			\$351,000
Contingency			
Contingency (not to exceed 5% of the cost to develop the project)	%	5	\$17,550.00
Construction management, site planning, preliminary design, survey and appraisals, or the cost of preparing the application (not to exceed 20% of the cost of the project)	%	10	\$35,100.00
Total Project Cost			\$403,650
Total PARTF Grant Request			\$200,000
Total Local Match			\$203,650

Town of Indian Trail

Memo

TO: Mayor and Town Council

FROM: Jason Tryon, Assistant Director
of Parks and Recreation

DATE: January 23, 2014

SUBJECT: PARTF Grant Update



One of the requirements for the PARTF grant is to have an updated capital improvement plan. In the previous agenda item, we've included a copy of a five-year parks and recreation capital improvement plan. Staff is requesting your approval of this Resolution and CIP.



Town of Indian Trail

Memo

TO: Mayor and Town Council

FROM: Scott J. Kaufhold, P.E., Director of Engineering and Public Works

COUNCIL DATE: January 28, 2014

SUBJECT: Chestnut Parkway Mitigation Fees

General Information:

The North Carolina Division of Water Resources (NCDWR) requires compensatory mitigation for losses of streams and wetlands. This fee in-lieu initiative offsets unavoidable environmental damage from transportation-infrastructure improvements and other economic development, and help to prevent harmful pollutants from endangering water quality in sensitive river basins.

In order to satisfy the compensatory mitigation requirement of the 401-404 permit issued for Chestnut Parkway, Phase 1B, a fee in the amount of \$51,376.50 has been assessed by the North Carolina Ecosystem Enhancement Program (NCEEP). This fee must be paid prior to commencing construction activities within the identified wetlands.

Required Actions:

Approval of Payment Fee

Attachments:

1. NCEEP Invoice
2. Map



**Ecosystem
Enhancement
PROGRAM**
INVOICE #20906
December 23, 2013

Scott Kaufold
Town of Indian Trail
Box 2430
Indian Trail, NC 28079

Project: Highway 74 Connector- Chestnut Pkwy Phase I
County: Union
USACE#: 2013-01509
WQ permit#: 13-1156
EEP #: 21094
Location: Yadkin 03040105

invoice expires: February 23, 2014

You have elected to satisfy the compensatory mitigation requirements of the Section 401/404/CAMA permit(s) issued for the above referenced project through payment of a fee to the North Carolina Ecosystem Enhancement Program (NCEEP). In accordance with 15A NCAC 2R .0402(d), the amount due is based upon the 2013-2014 Fee Schedule and has been calculated as follows (Please note: payment for wetlands is calculated in increments of 0.25 acres). If you have any questions concerning this payment, please call Kelly Williams at (919) 707-8915.

Habitat Type	Invoiced Amount		Fee Schedule	=	Cost
Riparian Wetlands	0.75 acres	x	\$ 68,502.00		\$51,376.50

TOTAL AMOUNT DUE if paid within 60 days **\$51,376.50**

If payment is not received within 60 days of the date of this invoice, it will expire. Note that your permit(s) may require payment before this date. **Subsequent invoice extensions will be based on the fee schedule in effect on the date they are issued.** Extensions may be requested by emailing the NCEEP In-Lieu Fee Program Coordinator at kelly.williams@ncdenr.gov. Please submit an ePayment at <http://portal.ncdenr.org/web/cep/epayment> or send a check payable to NCEEP for the Total Amount Due to the address below and enclose a copy of this invoice.

US Mail:
NCDENR Ecosystem Enhancement Program
1652 Mail Service Center
Raleigh, NC 27699-1652

Physical Address (for other delivery services):
NCDENR Ecosystem Enhancement Program
217 West Jones St., Suite 3000A
Raleigh, N.C. 27603

If the account name on the check is not the same as the permit holder's name, please include a signed statement by the permit holder that the check is being written on behalf of, and with full knowledge and authorization of, the permit holder. Refunds of payments made to NCEEP are only approved under certain conditions. All refund requests must be submitted in accordance with EEP's refund policy at www.nceep.net.

YOU MUST BE IN POSSESSION OF THE PAYMENT RECEIPT FROM NCEEP PRIOR TO COMMENCING THE ACTIVITIES AUTHORIZED BY THE DEPARTMENT OF ARMY 404 PERMIT, CAMA PERMIT AND/OR THE 401 WATER QUALITY CERTIFICATION.

cc: Karen Higgins, NCDWR Wetlands/401 Unit
Steve Kichowski, USACE-Asheville
Alan Johnson, NCDWR-Mooresville
Gregg Antemann, agent
File

Restoring... Enhancing... Protecting Our State





**PRELIMINARY
 NOT FOR
 CONSTRUCTION**

Corp. NC License C-033

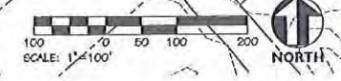
**Scott Garner Property
 Due Diligence Study**
 Indian Trail North Carolina
 NC 74

Project No.:
 Drawn By:
 Designed By:
 Checked By:
 Original Issue Date:

Revisions:

Sheet No.:

Sheet No.:



Tx4 ID 07110234
 Daniel A. Moore
 04/13/14 Pg. 458

Tx4 ID 07110234
 Esther H. Moore
 04/13/14 Pg. 457



Town of Indian Trail

Memo

TO: Mayor and Town Council

FROM: Scott J. Kaufhold, P.E., Director of Engineering and Public Works

COUNCIL DATE: January 28, 2014

SUBJECT: Amendment to the Capital Project Ordinance for Chestnut Extension

General Information:

Pursuant to Section 13.2 of Chapter 159 of the General Statutes of North Carolina, the adoption of an ordinance is required in order to authorize capital project expenditures.

Required actions:

Council Adoption of the Amended Ordinance

Attachment:

Amended Capital Project Ordinance for Chestnut Extension

STATE OF NORTH CAROLINA
TOWN OF INDIAN TRAIL

ORDINANCE #

**AN ORDINANCE AMENDING THE CAPITAL PROJECT
ORDINANCE FOR CHESTNUT EXTENSION**

BE IT ORDAINED by Town Council of the Town of Indian Trail, North Carolina, that, pursuant to Section 13.2 of Chapter 159 of the General Statutes of North Carolina, the following capital project ordinance is hereby adopted:

SECTION 1. The project authorized is the Chestnut Improvements.

SECTION 2. The officers of the Town are hereby directed to proceed with the capital project within the term of the bond resolution and budget contained herein.

SECTION 3. The following amount is appropriated for this project:

	Current Budget	Revised Budget
Construction	<u>\$1,463,313.00</u>	<u>\$1,514,690.00</u>

SECTION 4. The following revenues are anticipated to complete this project:

	Current Budget	Revised Budget
Proceeds from Street Bonds	\$875,913.00	\$927,290.00
Transportation Improvement Fund	<u>\$587,400.00</u>	<u>\$587,400.00</u>
Total	<u>\$1,463,313.00</u>	<u>\$1,514,690.00</u>

SECTION 5. The Finance Director is hereby directed to maintain within the capital project fund sufficient detailed accounting records to satisfy the requirements of an annual independent audit. The terms of the bond resolution also shall be met.

SECTION 6. Funds may be advanced from the General Fund for the purpose of making payments as due.

SECTION 7. The Finance Director is directed to report, on a quarterly basis, on the financial status of the project element in Section 3 and on the total revenues received or claimed.

SECTION 8. The Budget Officer is directed to include a detailed analysis of past and future costs and revenues on the capital project in every budget submission made to this Council.

SECTION 9. Any unexpended funds appropriated shall be reserved by the Town Council for use as provided by applicable law or regulation.

SECTION 10. The Finance Director is authorized from time to time to transfer as a loan from the General Fund in an amount necessary to met obligations until such time as funding is received. When Funds are received, repayments to the General Fund may be made.

SECTION 11. Copies of this capital project ordinance shall be made available to the Clerk and the Finance Director for direction in carrying out this project.

ADOPTED BY THE TOWN COUNCIL this the 28th day of January, 2014.

Michael Alvarez, Mayor

Attest:

Peggy Piontek, Town Clerk



Town of Indian Trail

Memo

TO: Mayor and Town Council

FROM: Scott J. Kaufhold, P.E., Director of Engineering and Public Works

COUNCIL DATE: January 28, 2014

SUBJECT: Amendment to the CEI Services for Unionville Indian Trail Road Sidewalk Project

General Information:

Federally funded CMAQ projects require oversight through Construction, Engineering, and Inspection (CEI) services. On March 12, 2013, Council awarded the CEI contract for C-4957B Unionville Indian Trail Road Sidewalk Project to Alley, Williams, Carmen & King, Inc. in the amount of \$161,672.80. Due to contractor and construction delays, an additional \$15,000 is anticipated to complete Phase 1A of this project.

Required Actions:

Council Approval



Town of Indian Trail

Memo

TO: Mayor and Town Council

FROM: Marsha Sutton, Finance Director
Scott J. Kaufhold, P.E., Director of Engineering and Public Works

COUNCIL DATE: January 28, 2014

SUBJECT: Amendment to the Capital Project Ordinance for C-4957 B Unionville Indian Trail Road Sidewalk Improvements

General Information:

Pursuant to Section 13.2 of Chapter 159 of the General Statutes of North Carolina, the adoption of an ordinance is required in order to authorize capital project expenditures.

Required actions:

Council Adoption of the Amended Ordinance

Attachment:

Amended Capital Project Ordinance for C-4957 B Unionville Indian Trail Road Sidewalk Improvements

**AN ORDINANCE AMENDING THE CAPITAL PROJECT ORDINANCE FOR
C-4957 B UNIONVILLE INDIAN TRAIL ROAD SIDEWALK IMPROVEMENTS**

WHEREAS, the Town of Indian Trail desires to promote pedestrian activity in the Town and to provide for more connections to facilities throughout the Town; and

WHEREAS, certain grant funding to accomplish this goal is available and has been approved for the Town of Indian Trail,

NOW, THEREFORE, BE IT ORDAINED by Town Council of the Town of Indian Trail, North Carolina, that, pursuant to Section 13.2 of Chapter 159 of the General Statutes of North Carolina, the following capital project ordinance is hereby adopted:

SECTION 1. The project authorized is the construction of a sidewalk, providing for pedestrian activities, financed by a Federal Grant and Powell Bill Funds, to be commonly known as the C-4957 B Unionville Indian Trail Road Sidewalk Improvements.

SECTION 2. The officers of the Town are hereby directed to proceed with the capital project within the term of the grant documents and budget contained herein.

SECTION 3. The following amounts are appropriated for this project:

	Current Budget	Revised Budget
Construction	\$1,025,942.23	\$1,025,942.23
Construction Engineering Inspection Services	<u>\$161,672.80</u>	<u>\$176,672.80</u>
Total Appropriations	<u><u>\$1,187,615.03</u></u>	<u><u>\$1,202,615.03</u></u>

SECTION 4. The following revenues are anticipated to complete this project:

	Current Budget	Revised Budget
Federal Grant	\$509,776.00	\$509,776.00
20% Matching Funds (Powell Bill)	\$127,444.00	\$127,444.00
Powell Bill Fund	<u>\$550,395.03</u>	<u>\$565,395.03</u>
Total Estimated Revenues	<u><u>\$1,187,615.03</u></u>	<u><u>\$1,202,615.03</u></u>

SECTION 5. The Finance Director is hereby directed to maintain within the capital project fund sufficient detailed accounting records to satisfy the requirements of the grantor agency, the grant agreements, and federal regulations.

SECTION 6. Funds may be advanced from the Powell Bill Fund for the purpose of making payments as due. Reimbursement requests should be made to the grantor agency in an orderly and timely manner.

SECTION 7. The Finance Director is directed to report on the financial status of the project element in Section 3 and as requested by the Town of Indian Trail.

SECTION 8. The Budget Officer is directed to include an analysis of the estimated spending and capital project revenue in the budget for this, and other active capital projects, with the Budget Ordinance.

SECTION 10. Copies of this capital project ordinance shall be made available to the Clerk and the Finance Director for direction in carrying out this project.

ADOPTED BY THE TOWN COUNCIL this the 28th day of January, 2014.

Michael L Alvarez, Mayor

Attest:

Peggy Piontek, Town Clerk



Town of Indian Trail

Memo

TO: Mayor and Town Council

FROM: Scott J. Kaufhold, P.E., Director of Engineering and Public Works

COUNCIL DATE: January 28, 2014

SUBJECT: Traffic Calming Measures for Spanish Moss Road

Background Information:

Following receipt of a formal request and signed petition for Traffic Calming measures, staff collected existing traffic data to include both vehicular speed and volume on Spanish Moss Road in the Brandon Oaks subdivision. The data provided warrant for the installation of temporary speed tables as outlined in the Traffic Calming Policy. Temporary speed tables were installed in July, 2013 and a second round of traffic data was collected afterwards to measure the effectiveness of the temporary devices in reducing vehicular speed and volume. The data was presented at the September 18th Brandon Oaks HOA meeting and at a public hearing held during the November 12th Town Council meeting. At that time, staff was asked to obtain further public input from the affected residents on traffic calming options. The results of this task were presented at the December 10th Town Council meeting.

Report Data:

1) Location map, 2) Resident petition, 3) Pre-temporary speed table installation traffic data, 4) Post-temporary speed table installation traffic data, 5) Map of proposed traffic calming measures, 6) Cost estimates for proposed traffic calming measures

Traffic Calming Options:

1) Do nothing, 2) install 3 asphalt speed tables, 3) install a temporary (6 month) road closure at Mustang Drive, 4) install a permanent road closure at Mustang Drive

Required Actions:

1) Select traffic calming measures for Spanish Moss Road
2) Approve funding for selected traffic calming measures for Spanish Moss Road



LOCATION MAP

- Legend
-  UC Road Centerlines
 -  Indian Trail Parcels
 -  PROJECT LOCATION



1 inch = 300 feet



TOWN OF INDIAN TRAIL PETITION FOR TRAFFIC CALMING

We, the homeowners on Spanish Moss Road request the Town of Indian Trail consider installing some form of permanent traffic calming to our street. We understand that the decision to implement a permanent installation may only be made by the Town Council of Indian Trail in accordance with the Town's Neighborhood Traffic Calming Policy.

Property Owner Signature	Address	Phone Number
<i>[Signature]</i>	1028 Spanish Moss Rd	704-942-0201
Diana Seizer	1023 Spanish Moss Rd	704-821-6220
Steph [Signature]	1018 Spanish Moss Rd	704-684-5323
Delia Poplar	1015 Spanish Moss Rd	(704) 684-1381
Arny B. Nava K.	1030 Spanish Moss Rd	704-220-6578
Stephanie Anderson	1027 Spanish Moss Rd	704-220-6312
Kene Atkinson	1029 Spanish Moss	704-628-4280
Amelia [Signature]	1013 Spanish Moss Rd	704-681-2106
Virginia [Signature]	1016 Spanish Moss Rd	704-628-4508
Michelle DeCaro	1012 Spanish Moss Rd	704-661-4017
Carrie Hallyburton	1000 Spanish Moss Rd.	704-525-4199
Conrad [Signature]	1017 Spanish Moss Rd.	704-607-2987
repts - Michael Chaffin	2002 Spanish Moss Rd.	443-370-7759
Nancy [Signature]	1025 Spanish Moss Rd	704-821-6517
Marylann Jones	1032 Spanish Moss	704-684-1379
Ginger Smith	2000 Spanish Moss	704-821-0651
Thomas Ford	2003 Spanish Moss Rd	704-499-1913
Suk Yu	1031 Spanish Moss Rd	704-615-8358
Scott Kelly	1019 Spanish Moss Rd	616-638-9199
Gina McManus	1014 Spanish Moss	704-724-3587
Steven Brown	1010 Spanish Moss	704-666-0451
same house - Dawn Steps	1008 Spanish Moss	704-254-6929
[Signature]	1006 Spanish Moss	704-628-4421
[Signature]	1006 Spanish Moss	704-628-4421
[Signature]	1004 Spanish Moss	808-344-3504

(Attach additional pages if necessary)



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 29-Jan-13
Date End: 06-Feb-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
01/29/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	2	2	4	5	2	0	0	0	0	0	0	0	0	0	15
12 PM	2	4	6	4	2	0	0	0	0	0	0	0	0	0	18
13:00	0	0	1	7	2	3	0	0	0	0	0	0	0	0	13
14:00	2	3	3	4	4	0	0	0	0	0	0	0	0	0	16
15:00	4	5	4	10	2	1	0	0	0	0	0	0	0	0	26
16:00	1	5	12	8	3	0	0	0	0	0	0	0	0	0	29
17:00	1	6	7	5	3	0	0	0	0	0	0	0	0	0	22
18:00	1	3	6	6	5	0	0	0	0	0	0	0	0	0	21
19:00	1	1	7	2	1	1	0	0	0	0	0	0	0	0	13
20:00	1	2	6	4	1	1	0	0	0	0	0	0	0	0	15
21:00	0	2	5	1	3	1	0	0	0	0	0	0	0	0	12
22:00	0	0	3	2	0	0	0	0	0	0	0	0	0	0	5
23:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
Total	15	33	65	58	29	7	0	207							

Daily

15th Percentile : 13 MPH
 50th Percentile : 23 MPH
 85th Percentile : 30 MPH
 95th Percentile : 34 MPH

Mean Speed(Average) : 23 MPH
 10 MPH Pace Speed : 20-29 MPH
 Number in Pace : 102
 Percent in Pace : 49.3%
 Number of Vehicles > 25 MPH : 94
 Percent of Vehicles > 25 MPH : 45.4%



SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD

Date Start: 29-Jan-13
 Date End: 06-Feb-13

Lane1, Lane2

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
	15	20	25	30	35	40	45	50	55	60	65	70	75	999	
01/30/13	1	1	0	3	0	0	1	0	0	0	0	0	0	0	6
01:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
02:00	1	0	0	0	1	0	1	0	0	0	0	0	0	0	3
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	1	3	2	0	2	0	0	0	0	0	0	0	9
06:00	1	1	4	1	0	0	0	0	0	0	0	0	0	0	7
07:00	6	10	7	4	6	0	0	0	0	0	0	0	0	0	33
08:00	1	2	13	8	4	1	0	2	0	0	0	0	0	0	29
09:00	1	3	7	4	2	1	1	0	0	0	0	0	0	0	19
10:00	0	1	6	6	4	2	0	0	0	0	0	0	0	0	19
11:00	0	3	2	3	2	0	1	0	0	0	0	0	0	0	11
12 PM	1	3	9	11	4	0	0	0	0	0	0	0	0	0	28
13:00	2	0	5	4	3	1	0	0	0	0	0	0	0	0	15
14:00	3	5	5	8	4	0	1	0	0	0	0	0	0	0	26
15:00	1	3	12	8	6	3	0	0	0	0	0	1	0	0	34
16:00	5	7	8	6	1	0	0	0	0	0	0	0	0	0	27
17:00	2	3	5	9	2	0	1	0	0	0	0	0	0	0	22
18:00	10	8	5	7	3	0	0	0	0	0	0	0	0	0	33
19:00	9	17	5	6	1	0	1	0	0	0	0	0	0	0	39
20:00	109	90	14	4	0	0	0	0	0	0	0	0	0	0	217
21:00	124	15	1	3	0	0	0	0	0	0	0	0	0	0	143
22:00	1	1	2	0	1	1	0	0	0	0	0	0	0	0	6
23:00	4	3	1	2	0	0	1	0	0	0	0	0	0	0	11
Total	283	177	113	101	47	9	10	0	0	0	0	1	0	0	741

Daily

15th Percentile : 6 MPH
 50th Percentile : 13 MPH
 85th Percentile : 25 MPH
 95th Percentile : 31 MPH

Mean Speed(Average) : 16 MPH
 10 MPH Pace Speed : 6-15 MPH
 Number in Pace : 341
 Percent in Pace : 46.0%
 Number of Vehicles > 25 MPH : 168
 Percent of Vehicles > 25 MPH : 22.7%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 29-Jan-13
Date End: 06-Feb-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
01/31/13	2	1	1	1	0	0	0	0	0	0	0	0	0	0	5
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3
03:00	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	1	4	2	0	0	0	0	0	0	0	0	0	8
06:00	2	0	5	2	0	2	0	0	0	0	0	0	0	0	11
07:00	1	2	9	9	10	1	0	0	0	0	0	0	0	0	32
08:00	1	7	6	7	7	0	0	0	0	0	0	0	0	0	28
09:00	0	1	2	6	1	0	0	0	0	0	0	0	0	0	10
10:00	1	2	2	4	3	1	1	0	0	0	0	0	0	0	14
11:00	0	0	5	6	0	0	0	0	0	0	0	0	0	0	11
12 PM	0	1	8	4	4	1	1	0	0	0	0	0	0	0	19
13:00	1	1	9	9	7	3	0	0	0	0	0	0	0	0	30
14:00	3	3	5	5	4	0	0	0	0	0	0	0	0	0	20
15:00	0	9	10	7	6	0	0	0	0	0	0	0	0	0	32
16:00	2	4	4	5	0	3	0	0	0	0	0	0	0	0	18
17:00	2	5	7	8	0	0	0	0	0	0	0	0	0	0	22
18:00	2	10	11	6	2	0	0	0	0	0	0	0	0	0	31
19:00	1	3	4	4	1	1	0	0	0	0	0	0	0	0	14
20:00	1	1	6	2	2	0	0	0	0	0	0	0	0	0	12
21:00	2	4	8	5	0	0	0	0	0	0	0	0	0	0	19
22:00	0	0	3	2	0	0	0	0	0	0	0	0	0	0	5
23:00	0	1	2	1	0	0	0	0	0	0	0	0	0	0	4
Total	22	57	108	100	50	12	2	0	351						

Daily

15th Percentile : 13 MPH
 50th Percentile : 23 MPH
 85th Percentile : 30 MPH
 95th Percentile : 34 MPH

Mean Speed(Average) : 23 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 173
 Percent in Pace : 49.3%
 Number of Vehicles > 25 MPH : 164
 Percent of Vehicles > 25 MPH : 46.7%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 29-Jan-13
Date End: 06-Feb-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
02/01/13	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
02:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	1	0	0	2	0	0	0	0	0	0	0	3
05:00	1	0	0	4	1	0	0	0	0	0	0	0	0	0	6
06:00	2	1	3	5	0	0	0	0	0	0	0	0	0	0	11
07:00	5	6	10	8	3	0	1	0	0	0	0	0	0	0	33
08:00	3	4	8	7	3	0	0	0	0	7	0	0	0	0	25
09:00	0	3	5	3	2	0	0	0	0	0	0	0	0	0	13
10:00	0	7	2	2	3	0	0	0	0	0	0	0	0	0	14
11:00	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
12 PM	1	3	4	2	1	0	0	0	0	0	0	0	0	0	11
13:00	1	0	4	2	4	0	0	0	0	0	0	0	0	0	11
14:00	3	2	2	1	2	0	0	0	0	1	0	0	0	0	10
15:00	0	3	3	3	3	0	0	0	0	0	0	0	0	0	12
16:00	1	0	8	4	2	0	0	0	0	0	0	0	0	0	15
17:00	2	1	2	4	1	0	0	0	0	4	0	0	0	0	10
18:00	3	1	1	4	4	0	0	0	0	0	0	0	0	0	13
19:00	0	0	1	6	2	1	0	0	0	0	0	0	0	0	10
20:00	0	0	2	3	1	1	0	0	0	0	0	1	0	0	7
21:00	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2
22:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
23:00	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3
Total	22	32	59	60	33	3	4	0	3	0	0	0	0	0	216

Daily
 15th Percentile : 11 MPH
 50th Percentile : 23 MPH
 85th Percentile : 31 MPH
 95th Percentile : 35 MPH
 Mean Speed(Average) : 23 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 97
 Percent in Pace : 44.9%
 Number of Vehicles > 25 MPH : 103
 Percent of Vehicles > 25 MPH : 47.7%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 29-Jan-13
Date End: 06-Feb-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	76	999	Total
02/02/13	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
03:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4
06:00	0	1	1	3	0	0	1	0	0	0	0	0	0	0	0	6
07:00	2	0	0	1	1	1	0	0	0	0	0	0	0	0	0	5
08:00	0	1	3	3	2	1	1	0	0	0	0	0	0	0	0	11
09:00	1	2	0	1	3	2	1	0	0	0	0	0	0	0	0	10
10:00	1	1	5	5	6	2	0	0	0	0	0	0	0	0	0	20
11:00	0	4	1	1	0	0	0	0	0	0	0	0	0	0	0	6
12 PM	0	4	5	3	3	0	0	0	0	0	0	0	0	0	0	15
13:00	1	0	4	5	1	1	0	0	0	0	0	0	0	0	0	12
14:00	2	3	0	5	1	0	0	0	0	0	0	0	0	0	0	11
15:00	0	1	0	4	2	0	0	0	0	0	0	0	0	0	0	7
16:00	2	2	3	6	2	0	0	0	0	0	0	0	0	0	0	15
17:00	0	4	1	2	2	0	0	0	0	0	0	0	0	0	0	9
18:00	1	1	2	1	0	1	0	0	0	0	0	0	0	0	0	6
19:00	0	3	2	3	0	0	0	0	0	0	0	0	0	0	0	8
20:00	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	5
21:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
22:00	0	0	2	2	1	0	2	0	0	0	0	0	0	0	0	7
23:00	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3
Total	11	27	33	54	24	10	7	0	166							

Daily

15th Percentile : 13 MPH
 50th Percentile : 24 MPH
 85th Percentile : 32 MPH
 95th Percentile : 38 MPH

Mean Speed(Average) : 24 MPH
 10 MPH Pace Speed : 22-31 MPH
 Number in Pace : 74
 Percent in Pace : 44.6%
 Number of Vehicles > 25 MPH : 95
 Percent of Vehicles > 25 MPH : 57.2%



SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD

Date Start: 29-Jan-13
 Date End: 06-Feb-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
02/03/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
04:00	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
05:00	0	0	1	0	0	0	2	0	0	0	0	0	0	0	3
06:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
07:00	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3
08:00	1	0	3	1	0	1	0	0	0	0	0	0	0	0	6
09:00	2	0	1	3	2	1	0	0	0	0	0	0	0	0	9
10:00	1	0	0	0	3	1	1	0	0	0	0	0	0	0	6
11:00	2	2	2	4	1	1	0	0	0	0	0	0	0	0	12
12 PM	1	1	6	0	1	0	0	0	0	0	0	0	0	0	9
13:00	0	1	2	1	2	1	0	0	0	0	0	0	0	0	7
14:00	1	3	1	1	2	0	0	0	0	0	0	0	0	0	8
15:00	0	2	2	3	1	0	0	0	0	0	0	0	0	0	8
16:00	1	1	3	3	1	0	0	0	0	0	0	0	0	0	9
17:00	1	1	3	1	0	0	0	0	0	0	0	0	0	0	6
18:00	2	0	4	2	0	0	0	0	0	0	0	0	0	0	8
19:00	0	1	2	5	1	0	0	0	0	0	0	0	0	0	9
20:00	0	3	2	1	2	0	0	0	0	0	0	0	0	0	8
21:00	0	0	4	1	2	1	0	0	0	0	0	0	0	0	8
22:00	0	0	0	3	2	0	0	0	0	0	0	0	0	0	5
23:00	0	0	2	0	1	0	0	0	0	0	0	0	0	0	3
Total	13	15	38	31	24	7	5	0	133						

Daily

15th Percentile : 12 MPH
 50th Percentile : 23 MPH
 85th Percentile : 32 MPH
 95th Percentile : 38 MPH

Mean Speed(Average) : 24 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 58
 Percent in Pace : 43.6%
 Number of Vehicles > 25 MPH : 67
 Percent of Vehicles > 25 MPH : 50.4%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 29-Jan-13
Date End: 06-Feb-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
02/04/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	1	0	0	4	1	1	0	0	0	0	0	0	0	0	7
06:00	1	3	2	1	2	0	0	0	0	0	0	0	0	0	9
07:00	2	5	5	7	2	0	1	0	0	0	0	0	0	0	22
08:00	0	2	4	4	2	0	0	0	0	0	0	0	0	0	12
09:00	0	2	3	2	1	1	1	0	0	0	0	0	0	0	10
10:00	1	1	1	4	1	0	0	0	0	0	0	0	0	0	8
11:00	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
12 PM	0	1	0	0	3	0	0	0	0	0	0	0	0	0	4
13:00	1	1	2	2	2	1	0	0	0	0	0	0	0	0	9
14:00	0	2	0	1	0	0	0	0	0	0	0	0	0	0	3
15:00	1	1	3	4	0	0	0	0	0	0	0	0	0	0	9
16:00	1	4	2	1	1	0	0	0	0	0	0	0	0	0	9
17:00	0	1	5	5	3	1	0	0	0	0	0	0	0	0	15
18:00	0	2	3	1	1	1	0	0	0	0	0	0	0	0	8
19:00	0	1	6	2	1	0	0	0	0	0	0	0	0	0	10
20:00	0	0	0	3	1	0	0	0	0	0	0	0	0	0	4
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8	27	37	44	21	5	2	0	144						

Daily

15th Percentile : 13 MPH
 50th Percentile : 23 MPH
 85th Percentile : 31 MPH
 95th Percentile : 35 MPH

Mean Speed(Average) : 23 MPH
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 68
 Percent in Pace : 47.2%
 Number of Vehicles > 25 MPH : 72
 Percent of Vehicles > 25 MPH : 50.0%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 29-Jan-13
Date End: 06-Feb-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
02/05/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
02:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	1	1	1	2	2	1	0	0	0	0	0	0	0	0	8
06:00	2	0	2	5	2	0	0	0	0	0	0	0	0	0	11
07:00	3	2	3	3	2	2	1	0	0	0	0	0	0	0	16
08:00	0	0	4	5	1	1	0	0	0	0	0	0	0	0	11
09:00	0	2	0	0	2	1	3	0	0	0	0	0	0	0	8
10:00	0	1	3	2	3	1	1	0	0	0	0	0	0	0	11
11:00	1	1	1	2	1	1	0	0	0	0	0	0	0	0	7
12 PM	0	1	1	2	1	0	0	0	0	0	0	0	0	0	5
13:00	0	1	0	2	1	1	0	0	0	0	0	0	0	0	5
14:00	1	2	1	1	1	2	1	0	0	0	0	0	0	0	9
15:00	0	1	8	6	0	0	0	0	0	0	0	0	0	0	15
16:00	1	1	3	6	2	0	0	0	0	0	0	0	0	0	13
17:00	0	1	1	4	1	1	0	0	0	0	0	0	0	0	8
18:00	2	1	3	4	1	0	0	0	0	0	0	0	0	0	11
19:00	0	0	1	1	2	0	0	0	0	0	0	0	0	0	4
20:00	1	0	0	1	1	0	1	0	0	0	0	0	0	0	4
21:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
22:00	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
23:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total	12	15	35	48	24	12	9	0	155						

Daily

15th Percentile : 13 MPH
 50th Percentile : 25 MPH
 85th Percentile : 34 MPH
 95th Percentile : 40 MPH

Mean Speed(Average) : 25 MPH
 10 MPH Pace Speed : 22-31 MPH
 Number in Pace : 71
 Percent in Pace : 45.6%
 Number of Vehicles > 25 MPH : 93
 Percent of Vehicles > 25 MPH : 60.0%



SPEED/VOLUME SURVEY

BRANDON OAKS SUBDIVISION

SPANISH MOSS ROAD

Date Start: 29-Jan-13
Date End: 06-Feb-13

Lane1, Lane2

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
02/06/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2
03:00	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	1	0	4	1	0	0	0	0	0	0	0	0	0	6
06:00	2	1	3	3	1	1	0	0	0	0	0	0	0	0	11
07:00	1	3	6	4	4	1	0	0	0	0	0	0	0	0	19
08:00	0	2	4	3	2	1	0	2	0	0	0	0	0	0	12
09:00	0	1	3	0	1	0	0	0	0	0	0	0	0	0	5
10:00	3	1	1	4	5	1	0	0	0	0	0	0	0	0	15
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	7	9	18	18	14	5	2	0	73						

Daily

15th Percentile : 12 MPH
 50th Percentile : 24 MPH
 85th Percentile : 33 MPH
 95th Percentile : 37 MPH

Mean Speed(Average) : 24 MPH
 10 MPH Pace Speed : 23-32 MPH
 Number in Pace : 30
 Percent in Pace : 41.1%
 Number of Vehicles > 25 MPH : 39
 Percent of Vehicles > 25 MPH : 53.4%

Grand Total	393	392	506	514	266	70	41	0	3	0	0	1	0	0	2186
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Overall

15th Percentile : 8 MPH
 50th Percentile : 20 MPH
 85th Percentile : 30 MPH
 95th Percentile : 35 MPH

Mean Speed(Average) : 20 MPH
 10 MPH Pace Speed : 20-29 MPH
 Number in Pace : 795
 Percent in Pace : 36.4%
 Number of Vehicles > 25 MPH : 895
 Percent of Vehicles > 25 MPH : 40.9%



SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD

Date Start: 05-Jul-13
 Date End: 16-Jul-13

Lane1, Lane2

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	999	Total
07/05/13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	3	8	4	2	0	0	0	0	0	0	0	0	0	0	0	17
16:00	1	6	8	5	0	0	0	0	0	0	0	0	0	0	0	20
17:00	12	9	5	4	0	0	0	0	0	0	0	0	0	0	0	30
18:00	0	2	8	3	0	0	0	0	0	0	0	0	0	0	0	13
19:00	0	2	4	4	0	0	0	0	0	0	0	0	0	0	0	10
20:00	2	2	4	0	1	0	0	0	0	0	0	0	0	0	0	9
21:00	0	4	3	2	0	0	0	0	0	0	0	0	0	0	0	9
22:00	27	7	2	1	0	0	0	0	0	0	0	0	0	0	0	37
23:00	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	45	43	41	21	1	0	151									

Daily

15th Percentile : 6 MPH
 50th Percentile : 15 MPH
 85th Percentile : 23 MPH
 95th Percentile : 27 MPH

Mean Speed(Average) : 16 MPH
 10 MPH Pace Speed : 8-17 MPH
 Number in Pace : 64
 Percent in Pace : 42.4%
 Number of Vehicles > 25 MPH : 22
 Percent of Vehicles > 25 MPH : 14.6%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 05-Jul-13
Date End: 16-Jul-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
07/06/13	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
01:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
07:00	1	1	3	0	1	0	0	0	0	0	0	0	0	0	6
08:00	3	1	5	1	0	0	0	0	0	0	0	0	0	0	10
09:00	3	1	2	1	1	0	0	0	0	0	0	0	0	0	8
10:00	0	1	6	2	1	0	0	0	0	0	0	0	0	0	10
11:00	2	7	1	4	0	0	0	0	0	0	0	0	0	0	14
12 PM	1	5	1	1	0	1	0	0	0	0	0	0	0	0	9
13:00	2	7	8	5	2	0	0	0	0	0	0	0	0	0	24
14:00	0	2	7	4	0	0	0	1	0	4	0	0	0	0	14
15:00	6	7	7	3	0	1	0	0	0	0	0	0	0	0	24
16:00	21	5	3	5	1	0	0	0	0	0	0	0	0	0	35
17:00	1	6	4	4	1	0	0	0	0	0	0	0	0	0	16
18:00	1	3	5	4	0	0	0	0	0	0	0	0	0	0	13
19:00	21	5	3	1	0	0	0	0	0	0	0	0	0	0	30
20:00	6	1	4	1	0	0	0	0	0	0	0	0	0	0	12
21:00	1	2	5	1	0	0	0	0	0	0	0	0	0	0	9
22:00	1	2	1	1	0	0	0	0	0	0	0	0	0	0	5
23:00	1	1	2	1	0	0	0	0	0	0	0	0	0	0	5
Total	73	62	68	39	7	2	0	1	0	0	0	0	0	0	252

Daily

15th Percentile : 7 MPH
 50th Percentile : 15 MPH
 85th Percentile : 25 MPH
 95th Percentile : 29 MPH

Mean Speed(Average) : 17 MPH
 10 MPH Pace Speed : 7-16 MPH
 Number in Pace : 101
 Percent in Pace : 40.1%
 Number of Vehicles > 25 MPH : 49
 Percent of Vehicles > 25 MPH : 19.4%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 05-Jul-13
Date End: 16-Jul-13

Lane1, Lane2

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	999	Total
07/07/13	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
01:00	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3
02:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
07:00	3	0	2	1	1	0	0	0	0	0	0	0	0	0	0	7
08:00	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	6
09:00	3	2	2	3	0	0	0	0	0	0	0	0	0	0	0	10
10:00	5	2	1	1	2	0	0	0	0	0	0	0	0	0	0	11
11:00	3	1	4	4	0	0	0	0	0	0	0	0	0	0	0	12
12 PM	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	6
13:00	3	3	5	2	0	0	0	0	0	0	0	0	0	0	0	13
14:00	2	4	3	4	0	0	0	0	0	0	0	0	0	0	0	13
15:00	2	2	4	6	0	1	0	0	0	0	0	0	0	0	0	15
16:00	3	4	5	6	2	0	0	0	0	0	0	0	0	0	0	20
17:00	20	3	2	2	1	0	0	0	0	0	0	0	0	0	0	28
18:00	1	1	1	6	2	0	0	0	0	0	0	0	0	0	0	11
19:00	20	32	19	4	1	0	0	0	0	0	0	0	0	0	0	76
20:00	1	2	3	3	1	0	0	0	0	0	0	0	0	0	0	10
21:00	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
22:00	0	1	3	5	1	0	0	0	0	0	0	0	0	0	0	10
23:00	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3
Total	69	66	64	54	11	1	0	0	0	0	0	0	0	0	0	265

Daily

15th Percentile : 7 MPH
 50th Percentile : 16 MPH
 85th Percentile : 26 MPH
 95th Percentile : 29 MPH

Mean Speed(Average) : 17 MPH
 10 MPH Pace Speed : 8-17 MPH
 Number in Pace : 102
 Percent in Pace : 38.5%
 Number of Vehicles > 25 MPH : 66
 Percent of Vehicles > 25 MPH : 24.9%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 05-Jul-13
Date End: 16-Jul-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
07/08/13	1	2	0	0	1	0	0	0	0	0	0	0	0	0	4
01:00	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
06:00	2	0	0	3	0	0	0	0	0	0	0	0	0	0	5
07:00	0	0	3	1	0	0	0	0	0	0	0	0	0	0	4
08:00	1	4	4	1	3	0	0	0	0	0	0	0	0	0	13
09:00	0	2	5	3	2	0	0	0	0	0	0	0	0	0	12
10:00	2	0	8	1	1	1	0	0	0	0	0	0	0	0	13
11:00	0	1	1	9	0	0	0	0	0	0	0	0	0	0	11
12 PM	3	11	7	4	1	0	0	0	0	0	0	0	0	0	26
13:00	1	3	8	5	1	0	0	0	0	0	0	0	0	0	18
14:00	0	3	5	4	0	0	0	0	0	0	0	0	0	0	12
15:00	4	3	3	7	1	1	0	0	0	0	0	0	0	0	19
16:00	2	5	0	4	1	0	0	0	0	0	0	0	0	0	12
17:00	3	5	7	3	1	0	0	0	0	3	0	0	0	0	19
18:00	0	3	6	4	2	0	0	0	0	0	0	0	0	0	15
19:00	3	3	4	6	1	0	0	0	0	0	0	0	0	0	17
20:00	2	6	4	1	0	0	0	0	0	1	0	0	0	0	13
21:00	4	9	5	1	0	0	0	0	0	0	0	0	0	0	19
22:00	1	3	6	0	0	0	0	0	0	0	0	0	0	0	10
23:00	3	1	2	1	0	0	0	0	0	0	0	0	0	0	7
Total	33	64	81	58	17	2	0	255							

Daily

15th Percentile : 10 MPH
 50th Percentile : 19 MPH
 85th Percentile : 27 MPH
 95th Percentile : 31 MPH

Mean Speed(Average) : 20 MPH
 10 MPH Pace Speed : 18-27 MPH
 Number in Pace : 116
 Percent in Pace : 45.5%
 Number of Vehicles > 25 MPH : 77
 Percent of Vehicles > 25 MPH : 30.2%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 05-Jul-13
Date End: 16-Jul-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
07/09/13	0	1	2	1	0	0	0	0	0	0	0	0	0	0	4
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	2	1	0	1	1	0	0	0	0	0	0	0	0	0	5
06:00	1	1	2	0	0	0	0	0	0	0	0	0	0	0	4
07:00	0	2	3	4	0	0	0	0	0	0	0	0	0	0	9
08:00	1	0	3	2	1	0	0	0	0	0	0	0	0	0	7
09:00	4	1	5	1	1	0	0	0	0	0	0	0	0	0	12
10:00	0	4	9	3	1	0	0	0	0	0	0	0	0	0	17
11:00	0	2	7	5	2	0	0	0	0	0	0	0	0	0	16
12 PM	0	0	3	1	1	0	0	0	0	0	0	0	0	0	5
13:00	2	12	10	2	3	0	0	0	0	0	0	0	0	0	29
14:00	0	7	8	3	0	0	0	0	0	0	0	0	0	0	18
15:00	1	5	5	5	2	0	0	0	0	0	0	0	0	0	18
16:00	2	5	3	4	0	0	0	0	0	0	0	0	0	0	14
17:00	2	6	7	9	2	0	0	0	0	0	0	0	0	0	26
18:00	3	0	2	7	4	0	0	0	0	0	0	0	0	0	16
19:00	4	3	5	4	1	0	0	0	0	0	0	0	0	0	17
20:00	3	6	3	6	0	0	0	0	0	0	0	0	0	0	18
21:00	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
22:00	1	2	9	0	0	0	0	0	0	0	0	0	0	0	12
23:00	1	0	1	3	1	0	0	0	0	0	0	0	0	0	6
Total	27	58	94	62	20	0	261								

Daily

15th Percentile : 11 MPH
 50th Percentile : 20 MPH
 65th Percentile : 27 MPH
 95th Percentile : 31 MPH

Mean Speed(Average) : 21 MPH
 10 MPH Pace Speed : 19-28 MPH
 Number in Pace : 129
 Percent in Pace : 49.4%
 Number of Vehicles > 25 MPH : 82
 Percent of Vehicles > 25 MPH : 31.4%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 05-Jul-13
Date End: 16-Jul-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
07/10/13	1	0	1	1	0	0	0	0	0	0	0	0	0	0	3
01:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
06:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
07:00	0	3	2	1	1	0	0	0	0	0	0	0	0	0	7
08:00	2	3	8	6	1	0	0	0	0	0	0	0	0	0	20
09:00	2	1	2	2	0	0	0	0	0	0	0	0	0	0	7
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	2	0	0	1	1	0	0	0	0	0	0	0	0	0	4
12 PM	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
13:00	1	1	2	0	0	0	0	0	0	0	0	0	0	0	4
14:00	0	0	1	2	1	0	0	0	0	0	0	0	0	0	4
15:00	2	1	3	1	0	0	0	0	0	0	0	0	0	0	7
16:00	0	1	3	1	0	0	0	0	0	0	0	0	0	0	5
17:00	29	12	3	1	0	0	0	0	0	0	0	0	0	0	45
18:00	1	7	3	0	0	0	0	0	0	0	0	0	0	0	11
19:00	1	2	1	0	0	0	0	0	0	0	0	0	0	0	4
20:00	1	1	1	1	0	0	0	0	0	0	0	0	0	0	4
21:00	2	2	0	0	0	0	0	0	0	0	0	0	0	0	4
22:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
23:00	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	47	39	37	19	4	0	146								

Daily

15th Percentile : 6 MPH
 50th Percentile : 14 MPH
 85th Percentile : 24 MPH
 95th Percentile : 28 MPH

Mean Speed(Average) : 16 MPH
 10 MPH Pace Speed : 7-16 MPH
 Number in Pace : 63
 Percent in Pace : 43.2%
 Number of Vehicles > 25 MPH : 23
 Percent of Vehicles > 25 MPH : 15.8%



SPEED/VOLUME SURVEY

BRANDON OAKS SUBDIVISION

SPANISH MOSS ROAD

Date Start: 05-Jul-13
Date End: 16-Jul-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	76	Total
07/11/13	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3
08:00	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3
09:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
10:00	0	4	0	1	0	0	0	0	0	0	0	0	0	0	0	5
11:00	1	0	3	1	1	0	0	0	0	0	0	0	0	0	0	6
12 PM	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	7
13:00	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4
14:00	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0	10
15:00	0	2	3	2	0	0	0	0	0	0	0	0	0	0	0	7
16:00	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	8
17:00	1	4	3	1	1	0	0	0	0	0	0	0	0	0	0	10
18:00	1	2	4	1	0	0	0	0	0	0	0	0	0	0	0	8
19:00	2	0	4	1	1	0	0	0	0	0	0	0	0	0	0	8
20:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
21:00	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3
22:00	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	4
23:00	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	5
Total	11	32	43	9	3	0	98									

Daily

15th Percentile : 10 MPH
 50th Percentile : 18 MPH
 85th Percentile : 24 MPH
 95th Percentile : 28 MPH

Mean Speed(Average) : 19 MPH
 10 MPH Pace Speed : 16-25 MPH
 Number in Pace : 56
 Percent in Pace : 57.1%
 Number of Vehicles > 25 MPH : 12
 Percent of Vehicles > 25 MPH : 12.2%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 05-Jul-13
Date End: 16-Jul-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
07/12/13	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3
07:00	2	0	1	0	0	0	0	0	0	0	0	0	0	0	3
08:00	2	0	2	0	0	0	0	0	0	0	0	0	0	0	4
09:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
10:00	0	2	2	1	0	0	0	0	0	0	0	0	0	0	5
11:00	1	3	2	0	0	0	0	0	0	0	0	0	0	0	6
12 PM	1	5	3	0	2	0	0	0	1	0	0	0	0	0	12
13:00	1	0	2	0	0	0	0	0	0	0	0	0	0	0	3
14:00	2	1	1	1	0	0	0	0	0	0	0	0	0	0	5
15:00	1	0	1	0	1	0	0	0	0	0	0	0	0	0	3
16:00	0	2	4	2	0	0	0	0	0	0	0	0	0	0	8
17:00	1	3	0	3	0	0	0	0	0	0	0	0	0	0	7
18:00	2	2	3	0	0	0	0	0	0	0	0	0	0	0	7
19:00	0	2	3	0	0	0	0	0	0	0	0	0	0	0	5
20:00	1	1	3	1	0	0	0	0	0	0	0	0	0	0	6
21:00	1	3	1	0	0	0	0	0	0	0	0	0	0	0	5
22:00	0	3	2	0	0	0	0	0	0	0	0	0	0	0	5
23:00	0	1	2	0	0	0	0	0	0	0	0	0	0	0	3
Total	17	30	34	9	3	0	0	0	1	0	0	0	0	0	94

Daily

15th Percentile : 8 MPH
 50th Percentile : 17 MPH
 85th Percentile : 24 MPH
 95th Percentile : 28 MPH

Mean Speed(Average) : 18 MPH
 10 MPH Pace Speed : 16-25 MPH
 Number in Pace : 46
 Percent in Pace : 48.9%
 Number of Vehicles > 25 MPH : 13
 Percent of Vehicles > 25 MPH : 13.8%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 05-Jul-13
Date End: 16-Jul-13

Lane1, Lane2

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total
	15	20	25	30	35	40	45	50	55	60	65	70	75	999	
07/13/13	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
01:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3
08:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
09:00	1	0	2	1	0	0	0	0	0	0	0	0	0	0	4
10:00	1	0	5	0	0	0	0	0	0	0	0	0	0	0	6
11:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12 PM	2	1	2	0	0	0	0	0	0	0	0	0	0	0	5
13:00	1	7	3	2	1	0	0	0	0	0	0	0	0	0	14
14:00	4	1	4	2	0	0	0	0	0	0	0	0	0	0	11
15:00	0	5	2	0	0	0	0	0	0	0	0	0	0	0	7
16:00	2	8	3	2	1	0	0	0	0	0	0	0	0	0	16
17:00	1	3	5	2	0	0	0	0	0	0	0	0	0	0	11
18:00	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5
19:00	3	2	2	0	1	0	0	0	0	0	0	0	0	0	8
20:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
21:00	2	2	0	0	0	0	0	0	0	0	0	0	0	0	4
22:00	0	2	4	1	0	0	0	0	0	0	0	0	0	0	7
23:00	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Total	22	41	38	10	3	0	114								

Daily

15th Percentile : 8 MPH
 50th Percentile : 16 MPH
 85th Percentile : 23 MPH
 95th Percentile : 27 MPH

Mean Speed(Average) : 17 MPH
 10 MPH Pace Speed : 15-24 MPH
 Number in Pace : 57
 Percent in Pace : 50.0%
 Number of Vehicles > 25 MPH : 13
 Percent of Vehicles > 25 MPH : 11.4%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 05-Jul-13
Date End: 16-Jul-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
07/14/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00	14	0	0	1	0	0	0	0	0	0	0	0	0	0	15
09:00	9	1	1	0	0	0	0	0	0	0	0	0	0	0	11
10:00	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
11:00	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3
12 PM	4	0	2	0	1	0	0	0	0	0	0	0	0	0	7
13:00	1	4	0	1	0	0	0	0	0	0	0	0	0	0	6
14:00	4	5	0	1	0	0	0	0	0	0	0	0	0	0	10
15:00	1	3	2	1	0	0	0	0	0	0	0	0	0	0	7
16:00	2	1	1	2	3	0	0	1	0	0	0	0	0	0	10
17:00	3	2	5	4	0	0	0	0	4	0	0	0	0	0	14
18:00	14	3	2	0	0	0	0	0	0	0	0	0	0	0	19
19:00	0	2	0	2	1	0	0	0	0	0	0	0	0	0	5
20:00	0	2	2	1	0	0	0	0	0	0	0	0	0	0	5
21:00	1	2	5	0	0	0	0	0	0	0	0	0	0	0	8
22:00	1	0	2	0	0	0	0	0	0	0	0	0	0	0	3
23:00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
Total	71	29	24	14	5	0	0	1	0	0	0	0	0	0	144

Daily

15th Percentile : 5 MPH
 50th Percentile : 11 MPH
 85th Percentile : 22 MPH
 95th Percentile : 28 MPH

Mean Speed(Average) : 14 MPH
 10 MPH Pace Speed : 5-14 MPH
 Number in Pace : 76
 Percent in Pace : 52.8%
 Number of Vehicles > 25 MPH : 20
 Percent of Vehicles > 25 MPH : 13.9%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 05-Jul-13
Date End: 16-Jul-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
07/15/13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
07:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
10:00	1	0	3	2	0	0	0	0	0	0	0	0	0	0	6
11:00	0	3	1	1	0	0	0	0	0	0	0	0	0	0	5
12 PM	0	2	6	0	0	0	0	0	0	0	0	0	0	0	8
13:00	1	2	2	2	0	0	0	0	0	0	0	0	0	0	7
14:00	1	4	4	0	0	0	0	0	0	0	0	0	0	0	9
15:00	0	2	1	1	0	0	0	0	0	0	0	0	0	0	4
16:00	1	2	2	1	0	0	0	0	0	0	0	0	0	0	6
17:00	1	2	3	0	1	0	0	0	0	0	0	0	0	0	7
18:00	0	5	2	3	0	0	0	0	0	0	0	0	0	0	10
19:00	0	3	9	1	0	0	0	0	0	0	0	0	0	0	13
20:00	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
21:00	1	2	3	1	0	0	0	0	0	0	0	0	0	0	7
22:00	1	0	2	0	0	0	0	0	0	0	0	0	0	0	3
23:00	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	9	33	41	12	1	0	96								

Daily

15th Percentile : 11 MPH
 50th Percentile : 19 MPH
 85th Percentile : 24 MPH
 95th Percentile : 27 MPH

Mean Speed(Average) : 19 MPH
 10 MPH Pace Speed : 16-25 MPH
 Number in Pace : 55
 Percent in Pace : 57.3%
 Number of Vehicles > 25 MPH : 13
 Percent of Vehicles > 25 MPH : 13.5%



**SPEED/VOLUME SURVEY
BRANDON OAKS SUBDIVISION
SPANISH MOSS ROAD**

Date Start: 05-Jul-13
Date End: 16-Jul-13

Lane1, Lane2

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Total
07/16/13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
06:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
07:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:00	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
09:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
10:00	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
11:00	0	2	2	0	0	0	0	0	0	0	0	0	0	0	4
12 PM	1	1	3	2	0	0	0	0	0	0	0	0	0	0	7
13:00	3	3	0	0	0	0	0	0	0	0	0	0	0	0	6
14:00	0	2	0	3	0	0	0	0	0	0	0	0	0	0	5
15:00	2	1	4	0	0	0	0	0	0	0	0	0	0	0	7
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	10	19	10	6	0	45									

Daily
 15th Percentile : 8 MPH
 50th Percentile : 15 MPH
 85th Percentile : 23 MPH
 95th Percentile : 27 MPH
 Mean Speed(Average) : 16 MPH
 10 MPH Pace Speed : 12-21 MPH
 Number in Pace : 23
 Percent in Pace : 51.1%
 Number of Vehicles > 25 MPH : 6
 Percent of Vehicles > 25 MPH : 13.3%

Grand Total	434	516	575	313	75	5	0	2	1	0	0	0	0	0	1921
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Overall
 15th Percentile : 7 MPH
 50th Percentile : 17 MPH
 85th Percentile : 25 MPH
 95th Percentile : 29 MPH
 Mean Speed(Average) : 18 MPH
 10 MPH Pace Speed : 15-24 MPH
 Number in Pace : 805
 Percent in Pace : 41.9%
 Number of Vehicles > 25 MPH : 396
 Percent of Vehicles > 25 MPH : 20.6%



**TOWN OF INDIAN TRAIL
SPANISH MOSS ROAD TRAFFIC CALMING OPTIONS
COST ESTIMATES**

Line Item	Item Type	Item Description	Quantity	Unit	Unit Price	Amount
ASPHALT SPEED TABLES						
1	SP1	Mobilization	1	LS	\$1,000.00	\$1,000.00
2	SP2	Raised Asphalt Speed Tables (include milling & thermo striping)	3	EA	\$5,000.00	\$15,000.00
3	SP3	Signage	1	LS	\$300.00	\$300.00
4	SP4	Traffic Control	1	LS	\$500.00	\$500.00
Subtotal for Asphalt Speed Tables						\$16,800.00

Line Item	Item Type	Item Description	Quantity	Unit	Unit Price	Amount
TEMPORARY ROAD CLOSURE						
1	SP1	Mobilization	1	LS	\$500.00	\$500.00
2	SP2	Small tree in large tree pot	4	EA	\$1,000.00	\$4,000.00
3	SP3	Signage	1	LS	\$300.00	\$300.00
Subtotal for Temporary Road Closure						\$4,800.00

Line Item	Item Type	Item Description	Quantity	Unit	Unit Price	Amount
PERMANENT ROAD CLOSURE						
1	SP1	Mobilization	1	LS	\$1,000.00	\$1,000.00
2	SP2	Grading (Demo, Grading, and Landscaping)	1	LS	\$6,000.00	\$6,000.00
3	SP3	Asphalt Pavement	180	TN	\$85.00	\$15,300.00
4	SP4	Curb and Gutter	320	LF	\$20.00	\$6,400.00
5	SP5	Signage	1	LS	\$300.00	\$300.00
6	SP6	Traffic Control	1	LS	\$1,000.00	\$1,000.00
Subtotal for Permanent Road Closure						\$30,000.00

Town of Indian Trail

Memo

TO: Mayor and Town Council
FROM: Joe Fivas, Town Manager
DATE: January 28, 2014
SUBJECT: Bonterra Streets



At the January 11th Strategic Planning meeting, Council requested this item be placed on the January 28th Agenda.