



**PINELLAS TRAIL SECURITY TASK FORCE
(PTSTF) MEETING AGENDA**

October 8, 2019 – 9:00 a.m.

Pinellas County Emergency Services Center, Room 130
12490 Ulmerton Road, Largo, FL 33774
(Telephone: 727-582-2000)

THE PLANNING COUNCIL AND METROPOLITAN PLANNING ORGANIZATION FOR PINELLAS COUNTY

1. **CALL TO ORDER AND INTRODUCTIONS**
 2. **APPROVAL OF MINUTES – July 9, 2019**
 3. **ADVANTAGE PINELLAS: PINELLAS TRAIL USERS SURVEY 2019**
 4. **QUARTERLY REPORT FROM PINELLAS TRAIL PARK RANGER**
 5. **LAW ENFORCEMENT AND AGENCY REPORTS**
 - Sheriff's Office
 - Belleair
 - Clearwater
 - Gulfport
 - Largo
 - St. Petersburg
 - Tarpon Springs
 - Animal Services
 - Public Safety Services
 - Pinellas County Risk Management
 - Volunteer Patrol Programs and Updates
 6. **REPORT ON TRAIL USER COUNT DATA**
 7. **REPORT ON TRAIL CONSTRUCTION ACTIVITY**
 8. **REPORT ON TRAIL COMMUNITY INVOLVEMENT ACTIVITIES**
 9. **OTHER BUSINESS**
 10. **ADJOURNMENT**
 - **NOTICE TO LAW ENFORCEMENT REPRESENTATIVES - IF YOU ARE UNABLE TO ATTEND THE MEETING, PLEASE E-MAIL YOUR INCIDENT/OFFENSE REPORT TO SUSAN MILLER smiller@forwardpinellas.org, IF YOU WOULD PREFER, YOU CAN FAX THE REPORT TO THE PINELLAS COUNTY MPO at (727) 464-8212.**
- THANK YOU.**

NEXT PTSTF MEETING – JANUARY 14, 2020

Public participation is solicited without regard to race, color, national origin, age, sex, religion, disability, or family status. Persons who require special accommodations under the Americans with Disabilities Act or persons who require translation services (free of charge) should contact the Office of Human Rights, 400 South Fort Harrison Avenue, Suite 300, Clearwater, Florida 33756; [(727) 464-4062 (V/TDD)] at least seven days prior to the meeting.

Appeals: Certain public meetings result in actions taken by the public board, commission or agency that may be appealed; in such case persons are advised that, if they decide to appeal any decision made at a public meeting/hearing, they will need a record of the proceedings, and, for such purposes, they may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Pinellas Trail Security Task Force – October 8, 2019

2. Approval of Minutes – July 9, 2019



SUMMARY

The summary minutes of the July 9, 2019 Pinellas Trail Security Task Force meeting are attached.

ATTACHMENTS: Pinellas Trail Security Task Force Summary Minutes – July 9, 2019

ACTION: Approval of April Meeting Summary

PINELLAS TRAIL SECURITY TASK FORCE
MEETING Summary
July 9, 2019

The following is a summary of the July 9, 2019 Forward Pinellas - Pinellas Trail Security Task Force meeting, which was held in the Pinellas County Public Safety Services Department, Room 130, 12490 Ulmerton Road, Largo, Florida 33774. The Security Task Force meets at least quarterly during the year.

IN ATTENDANCE

| | |
|-------------------------------|--|
| Officer Ron Wolfson, Chairman | St. Petersburg Police Department & Volunteer Coordinator |
| Officer Zachary Cissell | St. Petersburg Police Department |
| Officer Raniel Heredia | Clearwater Police Department |
| Officer Allison Daniels | Belleair Police Department |
| Officer Rick Doyle | Belleair Police Department |
| Officer John Ulrich | Tarpon Springs Police Department |
| Officer V. Tran | Largo Police Department |
| Deputy Terrance Fallahee | Pinellas County Sheriff's Office |
| Lyle Fowler | Pinellas County Parks and Conservation Resources Operations Mngr |
| Carol Gray | Pinellas County Parks and Conservation Resources Chief Ranger |
| Spencer Curtis | Pinellas County Parks and Conservation Resources |
| James Abaka | Pinellas County Risk Management |
| Joan Rice | Pinellas County Public Works – Traffic Division |
| Jared Kahn | Pinellas County Attorney's Office |
| Diriki Geuka | Pinellas County Attorney's Office |
| Alexis Sergeant | Pinellas County Public Works Transportation |
| Rodney Chatman | Forward Pinellas Staff |
| Susan J. Miller | Forward Pinellas Staff |
| Maria Kelly | Forward Pinellas Staff |

1. CALL TO ORDER AND INTRODUCTIONS

Chairman Ronald Wolfson, St. Petersburg Police Officer, called the meeting to order at 9:00 a.m. Self-introductions were provided.

2. APPROVAL OF MEETING SUMMARY – April 9, 2019

The summary from the April 9, 2019 meeting was approved, with no corrections.

3. PRESENTATION: TRESPASS WARNINGS ON THE PINELLAS TRAIL

Ms. Susan Miller, Forward Pinellas Staff, introduced the agenda item on trespass warnings on the Pinellas Trail. The Trail runs through multiple jurisdictions, and since multiple law enforcement agencies are involved, it creates a challenge for the park rangers when issuing trespass citations. Mr. Jared Kahn, Pinellas County Attorney's Office, began the discussion. He stated that certain individuals choose to ignore the rules of the Trail or break the law and rangers contact the appropriate law enforcement agency for assistance. Often there is an issue with the responsible jurisdiction, trespass documentation and what is considered private property. He asked the officers in attendance for their recommendations to resolve some of these trespass challenges, as each agency has specific policies, different trespass documentation and different duration of trespass. The Pinellas Trail is not private property and citations given by park rangers are a civil matter, as opposed to criminal, which makes it more difficult to enforce with repeat offenders. Mr. Diriki Geuka, Pinellas County Attorney's Office, said they have not yet encountered a legal situation of this type to date, but hope that today's forum could provide some answers. He pointed out that the Pinellas County Code of Ordinances, Section 90-13 subsection (b), states that "all provisions of this article may be enforced by all authorized law

enforcement officers and all personnel authorized by the administrator designee," which allows citation enforcement. One of the concerns with trespass violations remains coordination among agencies with repeat offenders. The group discussed creating some type of central data base for law enforcement to reference for repeated violators in other jurisdictions. The attorneys said that creating a public records entry would be complicated with regard to listing personal information. Ms. Carol Gray, Chief Park Ranger, stressed that law enforcement has been cooperative with calls from the rangers, but the actions of few repeat offenders have brought the trespass concerns to the forefront. After some discussion, it was determined that rangers should first reach out to law enforcement before issuing trespass citations, just in case of resistance. Discussion ensued where questions were taken and appropriately answered.

4. A. QUARTERLY REPORT FROM PINELLAS TRAIL PARK RANGER

Chief Ranger Gray, Parks and Conservation Resources (PCR), reported several incidents related to the Trail over the last quarter. April 9th, Pinellas County Sheriff's Office responded to a request for assistance with a subject camping on the Trail. On April 12th, St. Petersburg Police and Emergency Services responded to a request for assistance with an unconscious subject on a bench. On June 19th, Clearwater Police and Emergency Services also responded to a request for assistance with an unconscious subject on a bench. On June 20th, Pinellas County Sheriff's Office responded to a request for assistance regarding flammable material in a glass container thrown onto the Trail.

5. LAW ENFORCEMENT AND AGENCY REPORTS

A. Sheriff's Office

Pinellas County Sheriff Deputy Terrance Fallahee explained that the regular incidents report was not available. He found, however the first quarter 2019 report showed five incidents, but no crimes, just suspicious persons trespassed from the Trail, abandon property and one-person ambulance call. Surveillance was conducted.

B. Belleair

Officer Allison Daniels, Belleair Police Department, reported 28 field investigation reports with one arrest.

C. Clearwater

Officer Raniel Heredia from the Clearwater Police Department reported two specific incidences. The first one was a fatality at Nursery Road and the Pinellas Trail Loop, where a bicyclist failed to stop at a roadway crossing. The second on June 8th was an animal bite on the Trail at the Eldridge Street crossing. Also, a subject with a loaded firearm and mental health issues was reported on the Trail between Nursery and Belleair. Also, there was one suicidal subject in the area of the Trail.

D. Gulfport

No one attended from the Gulfport Police Department, but a non-incident report was received.

E. Largo

Officer V. Tran, Largo Police Department, reported for the last quarter. There were 20 calls of various nature from battery to intoxicated subject, patrol checks, traffic stops. There was one call of a suicidal subject, where Emergency Services were called out.

F. St. Petersburg

St. Petersburg Police Officer Zack Cissell reported that he was unable to pull the full report, but there were no significant incidences.

G. Tarpon Springs

Officer John Ulrich was in attendance and reported no significant incidences.

H. Animal Services

Mr. Gary Brown was unable to attend, and no report was received from the Animal Services Department.

I. Public Safety Services

Mr. Craig Queen, Pinellas County EMS & Fire Administration, was unavailable, but shared a report of calls using the Pinellas Trail marker as reference location points and indicated a rise in falls on the Trail.

J. Pinellas County Risk Management

Mr. James Abaka, Pinellas County Risk Management, reported there was a two-day safety tour of the Trail in May, concluding the Trail is in good shape and very well maintained.

K. Volunteer Patrol Programs and Updates

Chair Wolfson stated that there is an increased presence of officers on the trail during the summertime. It is especially nice for the playground areas as they aide in keeping an eye on the children in the parks. Chief Ranger Gray stated there five interested people for the Volunteer Rangers Program.

6. AUTOMATIC TRAIL COUNTERS

Ms. Miller briefly discussed the automatic counter reports, which are included in the agenda packet. All counters are working to date. Mr. Rodney Chatman, Forward Pinellas Division Manager, was contacted by the Florida Department of Transportation (FDOT) Central Office regarding a statewide program, the Florida Statewide Non-Motorized Traffic Monitoring Program, and asked to give a presentation in Tallahassee on the Pinellas Trail automated trail count program that measures the usage of the Pinellas Trail. The FDOT program is being set up to monitor non-motorized traffic on the trails around the state and this information will ultimately be sent to Washington DC to go into the transportation central database to be used for future studies. Pinellas County has been collecting data for a couple of years, and FDOT was curious to see how the data was collected, what the data looked like and how Pinellas County was using the data. The ultimate goal of the program is to have a uniform approach to recording and collecting data from a permanent count station in each district, per year.

7. PINELLAS TRAIL USERS SURVEY 2019

Ms. Miller reviewed the overall statistics from the 2019 Pinellas Trail Users Survey conducted throughout the Trail at the end of April. The final report will be shared when available.

8. REPORT ON TRAIL CONSTRUCTION ACTIVITY

Ms. Miller reviewed the Trail Construction Activity report with the Security Task Force. Please note on the electronic agenda's active links have been added to show additional construction information. The North Gap and the South Gap for the Duke Energy Trail: The North Loop Gap Countryside is in

design/build phase with 90% of the design completed. Construction will be underway soon to be completed in 2020. The South Loop Phase 3 & 4, Haines Bayshore to Ulmerton Road to 126th Avenue to connect to the North Bay Trail: Public Works has applied for SUNTrail funding for some areas while they investigate right-of-way in other areas. The Pinellas Trail Loop connection at NE Coachman/Old Coachman Road and the Ream Wilson Clearwater Trail is scheduled and will widen and improve the bridge over Alligator Creek. Pinellas Trail Loop – Duke Energy Trail, NE Coachman to Sunset Point: Penny for Pinellas funded, and construction was delayed due to Duke Energy installing new towers along the Trail segment. 71st Street Trail Connector, Pinellas Trail to 38th Avenue: Design is scheduled for FY 2022 with construction in FY2024. The San Martin Bridge and Trail Loop connection project includes a PD&E study on sea level rise impacts. Construction has not yet been funded, however San Martin Boulevard out to Gandy Boulevard will be striped with sharrows. The design of the Courtney Campbell Trail Overpass at Bayshore Boulevard and SR 60 has been funded under the SUNTrail program, with construction scheduled in FY 2024. FDOT currently shared a few designs with the Forward Pinellas committees and will attempt to move this project up on the priority list. Howard Franklin Bridge Trail: FDOT included a trail with new bridge construction project with is Build-Design with estimated construction in FY 2020. A suggestion was made to add sharrow's at the Gandy Bridge connection west of the bridge. The Orange Street Pedestrian Overpass has been completed. The design for the Harn Boulevard Overpass, is underway with construction scheduled for FY 2020/21. The Bayway Trail South, SR 682 and Tierra Verde Bridge Replacement is currently under construction, with a roundabout at the intersection of Madonna Boulevard and 1st Street. Treasure Island Causeway project: The City of St. Petersburg has been coordinating and helping to connect the Pinellas Trail with the Treasure Island Causeway. Phase I has been completed, Phase II has been postponed due to funding. The last phase of the Druid Trail, Glen Oaks Park to the Duke Energy Trail has been completed. Honeymoon Island State Park Trail Extension, going into Honeymoon Island has been completed. The Oldsmar Trail, Phase 6, along Douglas Road from Haynes Road to Race Track Road, design is underway with construction scheduled for 2019, funded through Penny for Pinellas. The pilot project for the Skinner Boulevard crossing in Dunedin will install auto-detecting RRFBs within the next couple months.

9. REPORT ON TRAIL COMMUNITY INVOLVEMENT ACTIVITIES

The 30th Anniversary of the Pinellas Trail is in the process of being planned for December, 2020.

10. OTHER BUSINESS

With regards to Florida House Bill 453, known as the Micromobility Devices Bill, the City of Clearwater has passed an ordinance to prohibit the sale of motorized scooters within its jurisdiction. Deputy Fallahee shared that the opinion of their General Council that the personal micro-mobility devices are authorized under state statute to operate anywhere a bicycle can go. Unless the County institutes an ordinance prohibiting these devices on the Trails, the Sheriff's Office opinion is these devices are authorized to be on the Trail.

11. ADJOURNMENT

Chairman Wolfson adjourned the meeting at 10:27 a.m. The next PTSTF meeting is scheduled for October 8, 2019.

Pinellas Trail Security Task Force – October 8, 2019

3. Advantage Pinellas: Pinellas Trail Users Survey 2019



SUMMARY

The 2019 Pinellas Trail Users Survey was conducted on Friday, April 26 and Saturday, April 27 at six different locations along the Trail. Many volunteers assisted with the survey, along with several Forward Pinellas staff members and County employees. An online survey was developed to supplement the in-field surveys to increase participation from a wider audience.

Thunderstorms on the first day of the survey discouraged many people from using the Trail, primarily those who would otherwise use it to get to work or school. Despite that, nearly 1,000 surveys were collected over the entire weekend. The online survey was available for two weeks and another 500 participated electronically.

From the 1,516 total responses, approximately two-thirds of users bicycled on the Trail, one-fourth walked, and about one-tenth jogged or ran. About 60% of respondents reside within 2-miles of the Trail, an increase of 4% from the 2014 survey, and 12% from the 1999 survey.

Forward Pinellas staff will present the results of the survey to the Security Task Force.

ATTACHMENT(S): None

ACTION: None, Informational Only

Pinellas Trail Security Task Force – October 8, 2019



6. Report on Monthly Trail User Count Data

SUMMARY

This item will include the monthly data summary reports for the automatic trail counters along the Pinellas Trail. Note that average hourly data has been included with the reports.

ATTACHMENT: Pinellas Trail User Count Data Summary Reports:

- June 2019
- July 2019
- August 2019

ACTION: No Action Required, informational item only

Pinellas Trail User Count Data Summary

Automated Trail Counter Data Collection Period:
June 1 – June 30, 2019 (30 days)

Total Usage

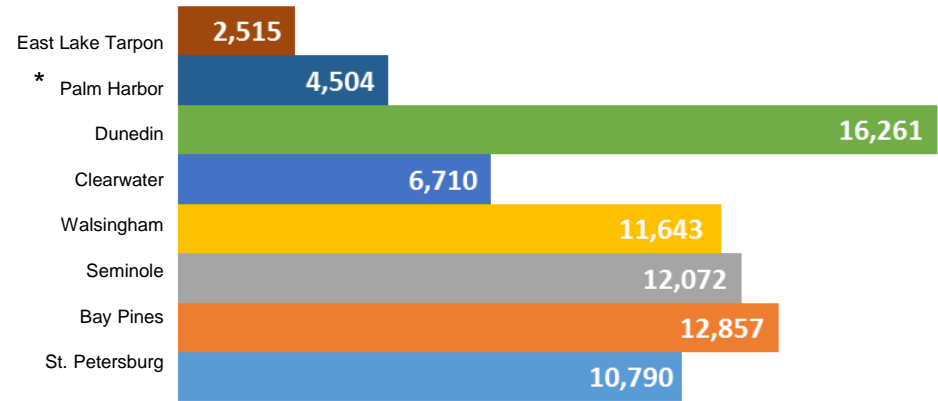
30-Day Count Total: 77,352
Daily Average Users: 2,578

Highest Daily Totals:

- #1 – Saturday, June 29th (Dunedin - 891)
- #2 – Saturday, June 29th (Palm Harbor - 891)
- #3 – Sunday, June 2nd (Bay Pines - 678)

* Denotes Palm Harbor Incomplete Dataset for June 2019.

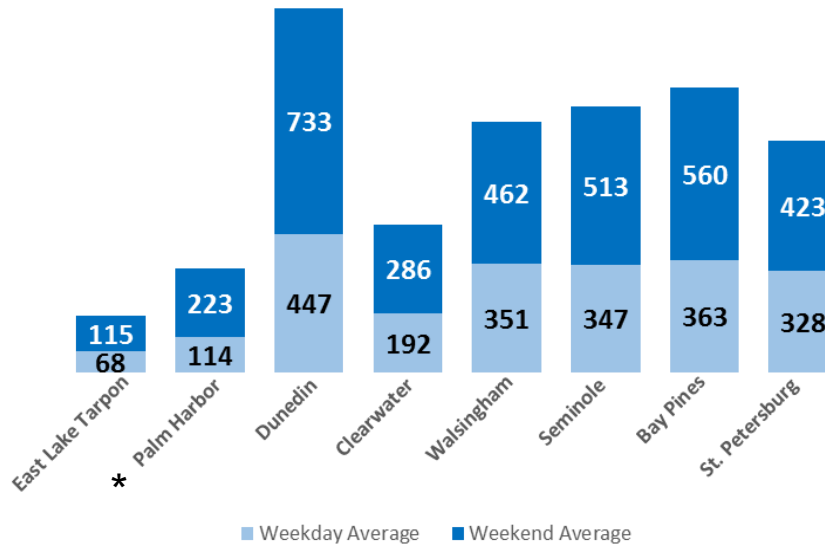
Monthly Trail Users by Counter Location



Counter Locations



Weekday & Weekend Profile



Trail User Mode Split

| Counter Location | Walking (Pedestrian Icon) | Bicycling (Bicycle Icon) |
|-------------------|---------------------------|--------------------------|
| East Lake Tarpon: | 1% | 99% |
| * Palm Harbor: | 0% | 100% |
| Dunedin: | 2% | 98% |
| Clearwater: | 22% | 78% |
| Walsingham: | 9% | 91% |
| Seminole: | 16% | 84% |
| Bay Pines: | 16% | 84% |
| St. Petersburg: | 26% | 74% |

Source: Forward Pinellas June 2019
National Weather Service: [June 2019](#)

Pinellas Trail User Count Data Summary

Automated Trail Counter Data Collection Period:
July 1 – July 31, 2019 (31 days)

Total Usage

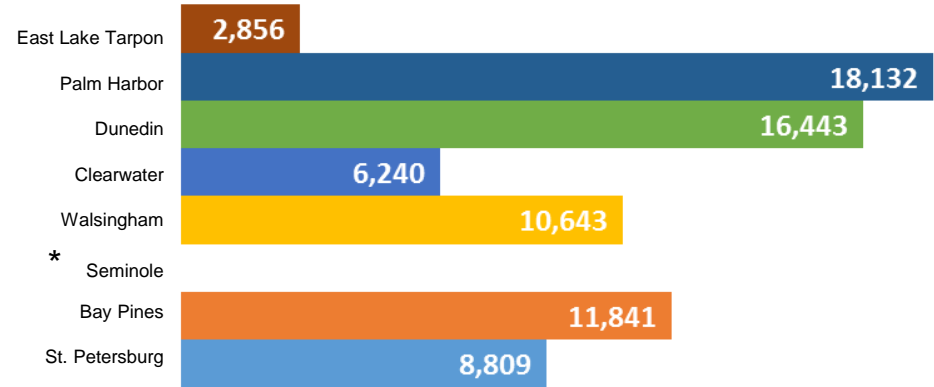
31-Day Count Total: 74,964
Daily Average Users: 2,418

Highest Daily Totals:

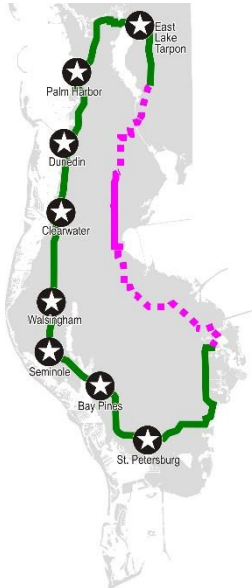
- #1 – Tuesday, July 2nd (Palm Harbor - 1,184)
- #2 – Saturday, July 27th (Dunedin - 932)
- #3 – Saturday, July 27th (Bay Pines - 621)

* Technical issues with Seminole Counter, July 2019.

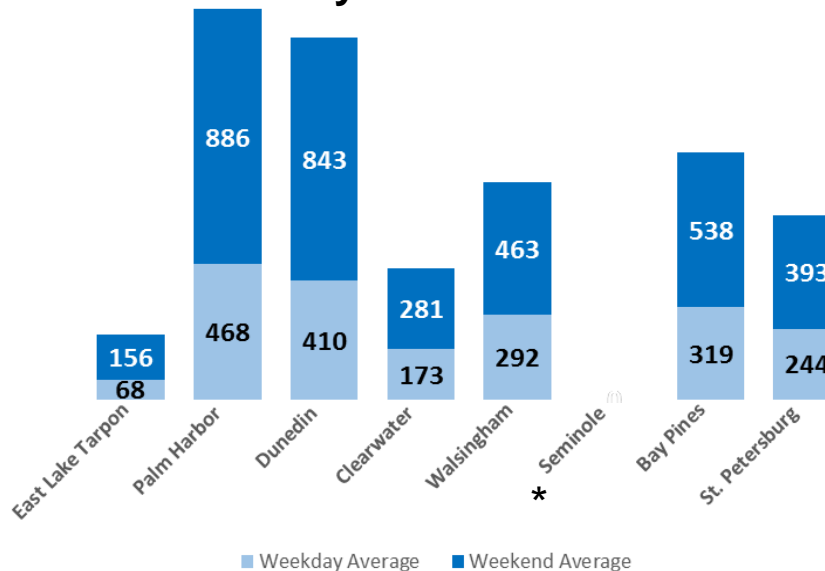
Monthly Trail Users by Counter Location



Counter Locations



Weekday & Weekend Profile



Trail User Mode Split

| Counter Location | Walking (Icon) | Bicycling (Icon) |
|-------------------|----------------|------------------|
| East Lake Tarpon: | 2% | 98% |
| Palm Harbor: | 14% | 86% |
| Dunedin: | 2% | 98% |
| Clearwater: | 5% | 95% |
| Walsingham: | 6% | 94% |
| * Seminole: | - | - |
| Bay Pines: | 9% | 91% |
| St. Petersburg: | 18% | 82% |

Source: Forward Pinellas July 2019
National Weather Service: [July 2019](#)

Pinellas Trail User Count Data Summary

Automated Trail Counter Data Collection Period:
August 1 – August 31, 2019 (31 days)

Total Usage

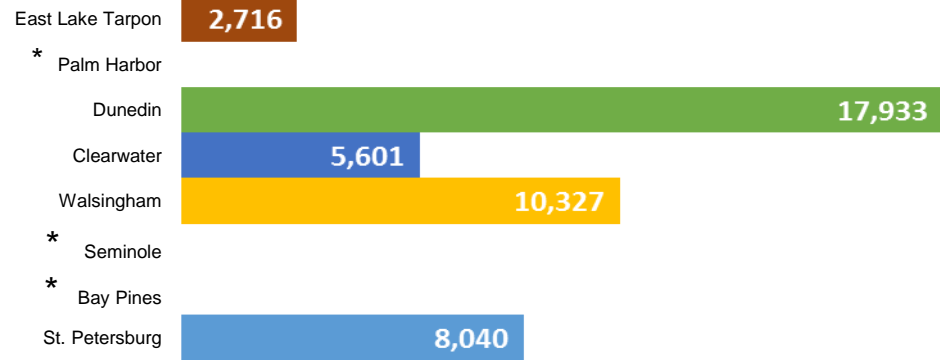
31-Day Count Total: 44,617
Daily Average Users: 1,439

Highest Daily Totals:

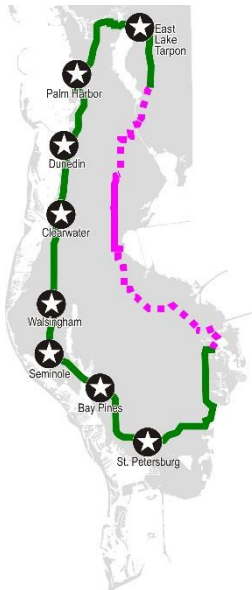
- #1 – Saturday, August 24th (Dunedin - 1,439)
- #2 – Sunday, August 4th (Walsingham - 573)
- #3 – Saturday, August 24th (St. Petersburg - 390)

* Technical issues with Seminole, Bay Pines & Palm Harbor Counters, August 2019.

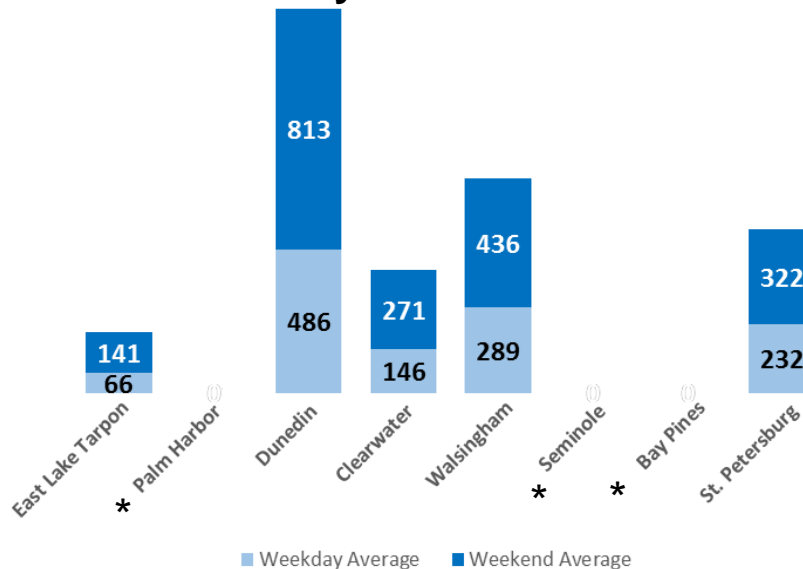
Monthly Trail Users by Counter Location



Counter Locations



Weekday & Weekend Profile

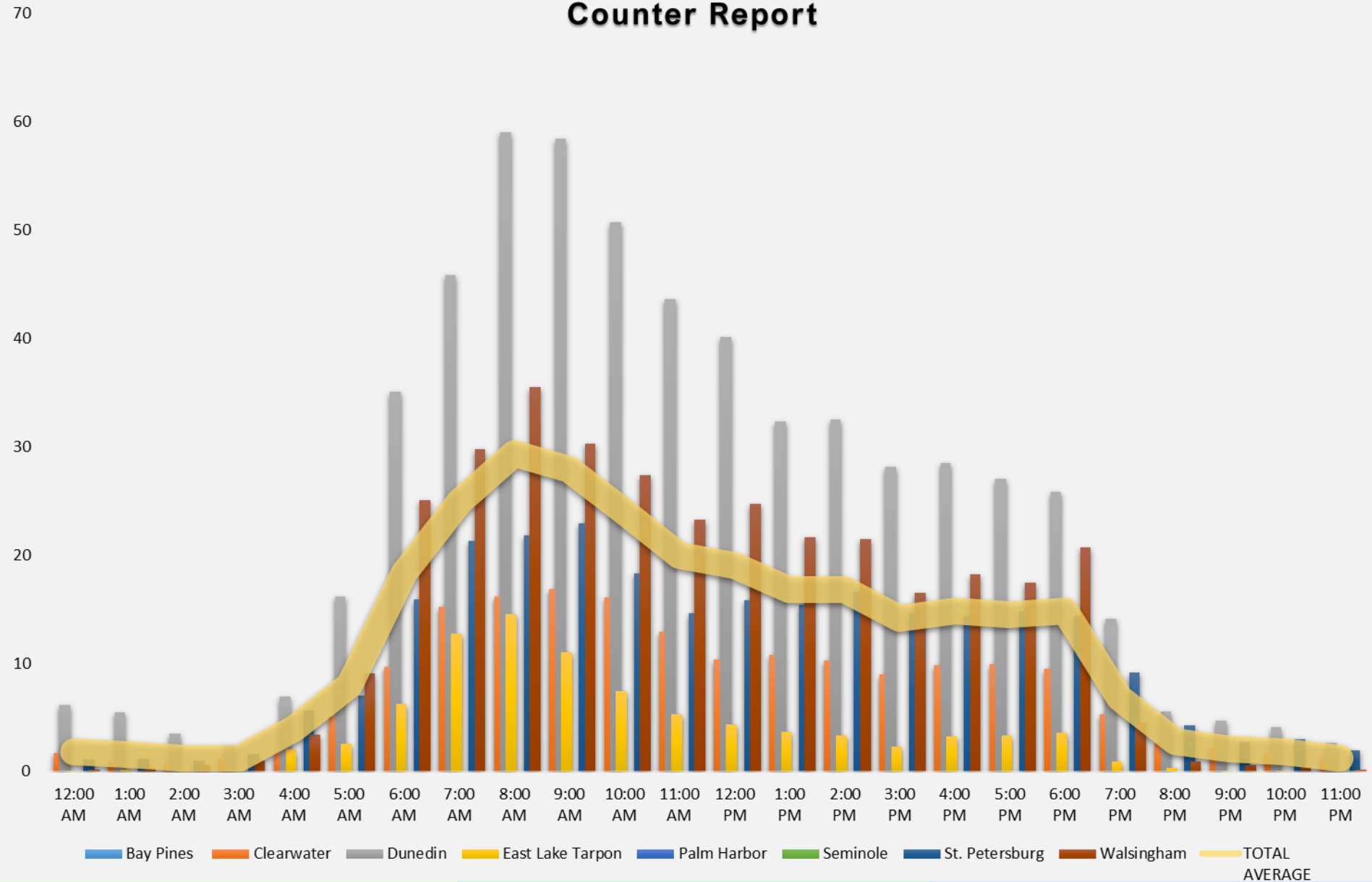


Trail User Mode Split

| Counter Location | Walking (Pedestrian Icon) | Bicycling (Bicycle Icon) |
|-------------------|---------------------------|--------------------------|
| East Lake Tarpon: | 1% | 99% |
| * Palm Harbor: | - | - |
| Dunedin: | 40% | 60% |
| Clearwater: | 6% | 94% |
| Walsingham: | 3% | 97% |
| * Seminole: | - | - |
| * Bay Pines: | - | - |
| St. Petersburg: | 12% | 88% |

Source: Forward Pinellas August 2019
National Weather Service: [August 2019](#)

August 2019 Average Hourly Counter Report



7. Trail Construction Activity Report

**TRAIL CONSTRUCTION PROJECTS
October 2019**

| | |
|--|--|
| Pinellas Trail North Loop Gap Countryside | Enterprise Rd to Chesnut Sr. Park; SUN Trail; Design-Build Underway, Est. Complete 2020 (link) |
| Pinellas Trail South Loop Phase 3 & 4 | Haines Bayshore to Ulmerton Rd to 126th Ave; Applied for SUN Trail Funding; Construction 2024 |
| Pinellas Trail Loop - Ream Wilson Connection (Old Coachman Bridge) | Trail widening and bridge improvements over Alligator Creek; Construction 2020 (link) |
| Pinellas Trail Loop – Duke Energy Trail | NE Coachman to Sunset Point; Penny for Pinellas funded; Construction January 2020 (link) |
| 71st Street Trail Connector | Pinellas Trail to 38th Avenue N; Design 2022, Construction 2024 |
| San Martin Bridge Replacement & Trail connection | PD&E Study for Detailed Analysis of approved alignment to be complete June 2020; (link) Sharrows to be installed Summer 2019 |
| Courtney Campbell Trail Overpass | Trail Overpass at S.R. 60/Bayshore Blvd; SUN Trail; Design Underway; Construction 2024 |
| Howard Frankland Bridge Trail | FDOT include trail with new bridge construction; Design-Build Project; Est. Construction 2020 (link) |
| Harn Boulevard Overpass | Pedestrian Overpass; Design Underway; Construction 2021 (link) |
| Bayway Trail South | SR 679 & Tierra Verde Bridge Replacement Construction late 2019 – 2021 (link) |
| Treasure Island Causeway Project | Phase I Completed February 2018; Phase II – Project on Hold (no funds) |
| Oldsmar Trail Phase 6 | Douglas Rd (Hayes Rd to Race Track Rd, approx. 1.2 miles) Design underway; Constr 2019 |

9. Other Business

A. Correspondence, Publications, Articles of Interest

Forward Pinellas Committee Meeting Schedule

FLIR TrafiSense: The world's first integrated thermal traffic sensor

Pinellas Trail RRFB Layout Final

B. Suggestions for Future Agenda Topics

This item is provided to allow Committee members to suggest topics for future BPAC agendas.

C. Other

If any member has other business to discuss, they may address it under this item.

FLIR TrafiSense

The world's first integrated thermal traffic sensor



FLIR's TrafiSense uses an integrated thermal sensor for the detection of vehicles, bicyclists and pedestrians. Like all FLIR thermal sensors, TrafiSense senses thermal energy, not visible light. Therefore, the sensor will give reliable presence detection in the darkest of nights, over a long range, and in the most difficult weather conditions.

VEHICLE, BICYCLE AND PEDESTRIAN PRESENCE DETECTION

TrafiSense can be used to control traffic signals by detecting vehicles and bicycles at and nearby the stop bar and by detecting pedestrians and bicyclists at and nearby the crossing. The TrafiSense detector will transmit its detection information over contact closures or over TCP/IP to the traffic signal controller and will thus allow a more dynamic control of traffic signals. This results in reduced vehicle idling time, improved traffic flow and improved safety and mobility for motorists, bicyclists and pedestrians. Typical intersection applications are 'green on demand' and 'lengthening clearance times'.

The intelligent TrafiSense sensor can distinguish between vehicles and bicyclists, which allows traffic controllers to make more intelligent decisions and adapt green times according to the specific road user type. TrafiSense also allows traffic controllers to adapt traffic signals for pedestrians or activate presence-based warning signals to make pedestrians more visible on crossings.

INVERSE DIRECTION DETECTION

Through real-time analysis of thermal images, TrafiSense will detect wrong-way drivers on highways, highway entries and exits, or inter-urban roads in a matter of seconds. TrafiSense's algorithms are based on proven performance of more than 20 years.

VEHICLE AND BICYCLE COUNTING

TrafiSense also offers vehicle and bicycle counting. This functionality can work simultaneously with the presence detection functionality and uses the same detection zones and regions.

KEY BENEFITS:

- SENSOR AND DETECTOR INTEGRATED INTO ONE UNIT
- SIMPLE AND QUICK INSTALLATION
- PROVEN DETECTION PERFORMANCE
- 24-HOUR DETECTION, AT NIGHT AND IN THE MOST DIFFICULT WEATHER CONDITIONS
- NO NEED FOR ADDITIONAL LIGHTING
- DETECTION OVER LONG RANGE AND ACROSS DIFFERENT LANES (TYPICALLY UP TO 4 - DEPENDING ON LENS)



Vehicle & bicycle presence detection



On-crossing pedestrian detection

Imaging Specifications

| System Overview | | TrafiSense | | |
|-------------------------------------|--|----------------------------------|--|-----------------------------|
| Detection functionalities | Vehicle and bicycle presence detection, vehicle and bicycle counting, pedestrian presence detection, traffic data collection, inverse direction detection | | | |
| # detection zones | 24 vehicle presence zones 8 bicycle presence regions 8 pedestrian zones 8 traffic data zones 8 inverse direction zones | | | |
| Camera | | | | |
| Resolution | QVGA (336 x 256) | | | |
| Frame rate | 30 FPS | | | |
| Type | Long wave Infrared (7 – 14 μm) | | | |
| Compression | H.264, MPEG-4, MJPEG | | | |
| | Part number | Field of view | Functionality | Distance (vehicle presence) |
| TrafiSense ETH/BPL 390 | ETH: 10-7045 BPL: 10-7035 | Horizontal: 90° Vertical: 69° | Vehicle presence, Bicycle presence, Inverse direction, Vehicle and bicycle counting, Pedestrian presence | 0 - 80 ft |
| TrafiSense ETH/BPL 345 | ETH: 10-7044 BPL: 10-7034 | Horizontal: 45° Vertical: 35° | Vehicle presence, Bicycle presence, Inverse direction, Vehicle and bicycle counting, Pedestrian presence | 16 - 160ft |
| TrafiSense ETH/BPL 335 | ETH: 10-7046 BPL: 10-7036 | Horizontal: 35° Vertical: 27° | Vehicle presence, Bicycle presence, Inverse direction, Vehicle and bicycle counting, Pedestrian presence | 35 - 245 ft |
| TrafiSense ETH/BPL 325 | ETH: 10-7047 BPL: 10-7037 | Horizontal: 25° Vertical: 19° | Vehicle presence, Bicycle presence, Inverse direction | 100 - 300 ft |
| TrafiSense ETH/BPL 317 | ETH: 10-7048 BPL: 10-7038 | Horizontal 17° Vertical 13° | Vehicle presence, bike presence | 145 - 400 ft |
| Housing | | | | |
| Material | Aluminum | | | |
| Dimensions (incl. mounting bracket) | Vertically mounted 17.7 x 6.3 x 4.7 inch Horizontally mounted 16.1 x 7.1 x 4.7 inch | | | |
| Sunshield | Optional | | | |
| Power, outputs, communications | | | | |
| Contact closures | 3 for ETH versions, direct or via optional ETH interface (PN 10-6075) 24 for BPL versions, 4 outputs via T1 x-stream EDGE (PN 10-6055), up to 20 extra outputs via up to 5 4/Os xp expansion boards <u>Note:</u> in TS2 mode, SDLC via T1 x-stream EDGE and PIM module | | | |
| Ethernet | For communication of output state events, configuration & monitoring (streaming video) | | | |
| Input Power | 12-42VDC, 12-30VAC | | | |
| Current Consumption | BPL: < 230 mA @ 24VDC (< 320mA @ 24VDC peak at startup) ETH: < 130 mA @ 24VDC (< 250mA @ 24VDC peak at startup) | | | |
| Power Consumption | BPL: < 5.5W (< 7.5W peak at startup) ETH: < 3.1W (< 6W peak at startup) | | | |
| PC tool for set-up | TrafiCon Configuration Tool (TCT) | | | |
| Regulatory | | | | |
| EU Directives | EMC 2004/108/EC, RoHS 2011/65/EU | | | |
| Environmental | | | | |
| Shock & Vibration | NEMA TS2 specs | | | |
| Materials | All weatherproof (UV-resistant) | | | |
| Protection Grades | Housing = IP68, Connectors = IP67 | | | |
| Temperature Range | From -29°F to 165°F (-34°C to +80°C) | | | |
| FCC | FCC part 15 Class A | | | |

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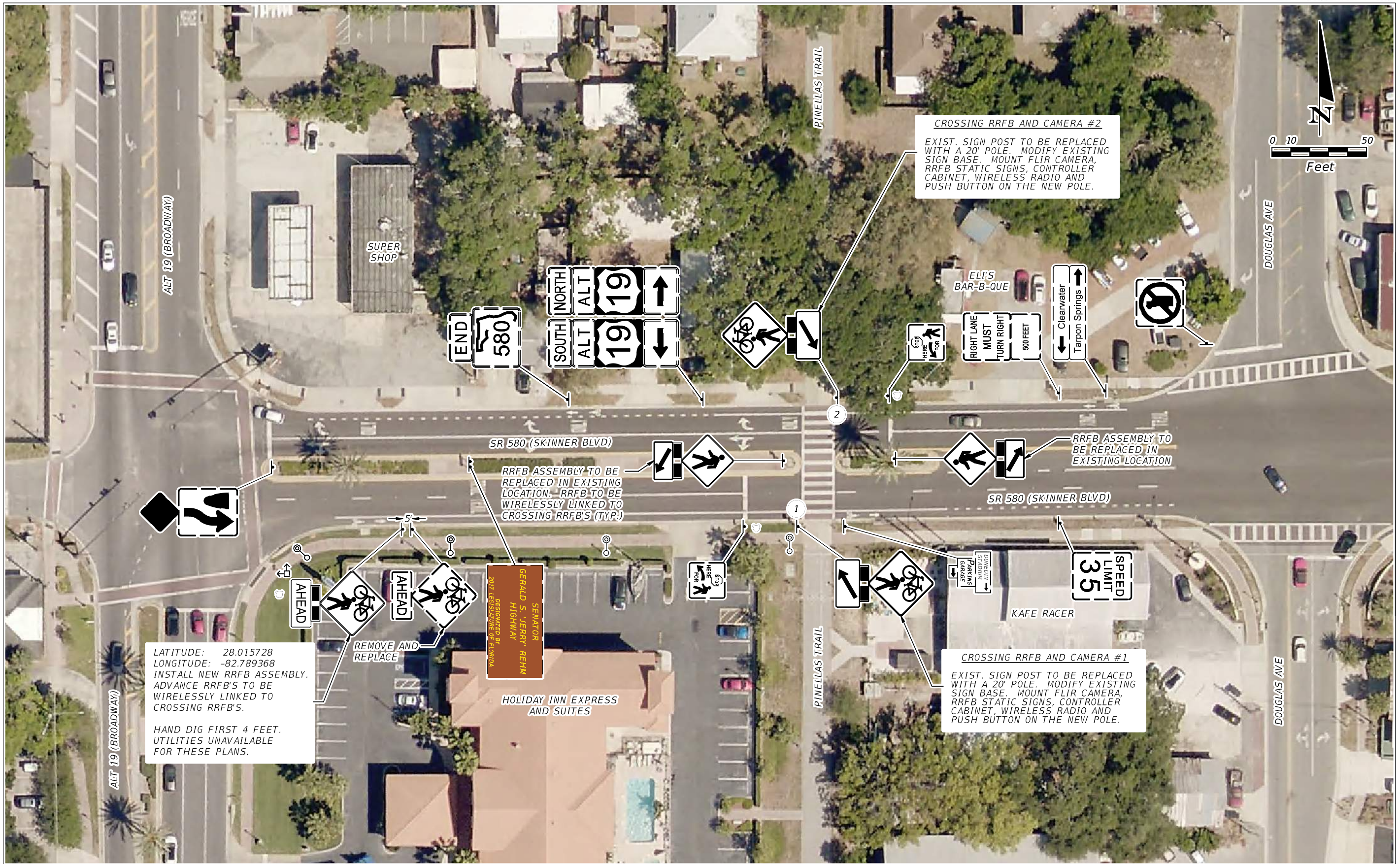
www.flir.com
NASDAQ: FLIR

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UK
FLIR Systems UK
2 Kings Hill Avenue
Kings Hill
West Malling - Kent
ME19 4AQ
United Kingdom
PH: +44 (0)1732 220 011



LATITUDE: 28.015728
 LONGITUDE: -82.789368
 INSTALL NEW RRFB ASSEMBLY.
 ADVANCE RRFB'S TO BE
 WIRELESSLY LINKED TO
 CROSSING RRFB'S.

HAND DIG FIRST 4 FEET.
 UTILITIES UNAVAILABLE
 FOR THESE PLANS.

END SR 580

SR 580

NORTH ALT 19

SOUTH ALT 19

CROSSING RRFB AND CAMERA #2

EXIST. SIGN POST TO BE REPLACED WITH A 20' POLE. MODIFY EXISTING SIGN BASE. MOUNT FLIR CAMERA, RRFB STATIC SIGNS, CONTROLLER CABINET, WIRELESS RADIO AND PUSH BUTTON ON THE NEW POLE.

CROSSING RRFB AND CAMERA #1

EXIST. SIGN POST TO BE REPLACED WITH A 20' POLE. MODIFY EXISTING SIGN BASE. MOUNT FLIR CAMERA, RRFB STATIC SIGNS, CONTROLLER CABINET, WIRELESS RADIO AND PUSH BUTTON ON THE NEW POLE.

RRFB ASSEMBLY TO BE REPLACED IN EXISTING LOCATION. RRFB TO BE WIRELESSLY LINKED TO CROSSING RRFB'S (TYP.)

RRFB ASSEMBLY TO BE REPLACED IN EXISTING LOCATION

SENATOR
 GERALD S. 'JERRY' REHM
 DESIGNATED BY
 2017 LEGISLATURE OF FLORIDA

HOLIDAY INN EXPRESS
 AND SUITES

MATCHLINE - SEE SHEET 2

| REVISIONS | | | | HNTB CORPORATION 201 N. FRANKLIN STREET, SUITE 1200 TAMPA, FL 33602 CERTIFICATE OF AUTHORIZATION: 6500 SUBHASIS GHOSH, P.E. P.E. LICENSE NUMBER 68269 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | PINELLAS TRAIL PEDESTRIAN CROSSING | SHEET NO. |
|-----------|-------------|------|-------------|--|--|----------|----------------------|---|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | SR 580 | PINELLAS | | | 1 |

MATCHLINE - SEE SHEET 1



| REVISIONS | | | | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | PINELLAS TRAIL PEDESTRIAN CROSSING | SHEET NO. 2 |
|-----------|-------------|------|-------------|--|----------|----------------------|---------------------------------------|-----------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | SR 580 | PINELLAS | | | |

HNTB CORPORATION
201 N. FRANKLIN STREET, SUITE 1200
TAMPA, FL 33602
CERTIFICATE OF AUTHORIZATION: 6500
SUBHASIS GHOSH, P.E.
P.E. LICENSE NUMBER 68269