REVIEW APRIL 5, 2019

EXHIBIT A

SCOPE OF SERVICES

FOR

**Design Group 20-06**

# RESURFACING, REHABILITATION, & RESTORATION

FINANCIAL PROJECT ID (FPID): 437764-1-32-01

State Road (SR) 10A (US 90) Mobile Highway

from SR 10 (US 90A) Nine Mile Road to West of SR 297 (Pine Forest Road)

And

FPID: 443651-1-32-01

SR 298 (Lillian Highway)

from North of SR 30 (US 98) to East of SR 727 (Fairfield Drive)

DISTRICT THREE

ESCAMBIA COUNTY

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**SCOPE OF SERVICES FOR CONSULTING ENGINEERING SERVICES**
**HIGHWAY DESIGN**

This Exhibit forms an integral part of the agreement between the State of Florida Department of Transportation (hereinafter referred to as the DEPARTMENT or FDOT) and ***leave blank until CONSULTANT is selected*** (hereinafter referred to as the CONSULTANT) relative to the transportation facility described as follows:

| | |
|---|---|
| Financial Project ID: | ***437764-1-32-01*** |
| County Section No.: | ***48020000*** |
| Description: | ***SR 10A (US 90) Mobile Highway from SR 10 (US 90A) Nine Mile Road to West of SR 297 (Pine Forest Road)*** |
| County: | ***Escambia*** |
| Bridge No.: | ***480190 & 480003*** |
| Context Classification: | ***C3R-Suburban Residential from US 90A (SR 10) to SR 173 (Blue Angel Parkway)***<br>***C3C-Suburban Commercial from SR 173 (Blue Angel Parkway) to W of SR 297 (Pine Forest Road)*** |

| | |
|---|---|
| Financial Project ID: | ***443651-1-32-01*** |
| County Section No.: | ***48110000*** |
| Description: | ***SR 298 (Lillian Highway) from North of SR 30 (US 98) to East of SR 727 (Fairfield Drive)*** |
| County: | ***Escambia*** |
| Bridge No.: | ***480022*** |
| Context Classification: | ***C3R-Suburban Residential from SR 30 (US 98)/CR297 (Dogtrack Road) to SR 173 (Blue Angel Parkway)***<br>***C3C-Suburban Commercial from SR 173 (Blue Angel Parkway) to E of SR 727 (Fairfield Drive)*** |

## 1 PURPOSE

The purpose of this Exhibit is to describe the scope of work and the responsibilities of the CONSULTANT and the DEPARTMENT in connection with the design and preparation of a complete set of construction contract documents and incidental engineering services, as necessary, for improvements to the transportation facility described herein.

- Major work mix include: ***RESURFACING***
- Major work groups include: ***3.1***
- Minor work groups include: ***4.1.1, 5.4, 7.1, 7.2, 7.3, 9.1, 9.2***

***Alternative construction contracting methods have NOT been identified for this project at this time.***

The general objective is for the CONSULTANT to prepare a set of contract documents including plans, specifications, supporting engineering analysis, calculations and other technical documents in accordance with FDOT policy, procedures and requirements. These Contract documents will be used by the contractor to build the project and test the project components. These Contract documents will be used by the DEPARTMENT or its Construction Engineering Inspection (CEI) representatives for inspection and final acceptance of the project. The CONSULTANT shall follow a systems engineering process to ensure that all required project components are included in the development of the Contract documents and the project can be built as designed and to specifications.

The Scope of Services establishes which items of work in the Plans Preparation Manual and other pertinent manuals are specifically prescribed to accomplish the work included in this contract, and also indicate which items of work will be the responsibility of the CONSULTANT and/or the DEPARTMENT.

The CONSULTANT shall be aware that as a project is developed, certain modifications and/or improvements to the original concepts may be required. The CONSULTANT shall incorporate these refinements into the design and consider such refinements to be an anticipated and integral part of the work. This shall not be a basis for any supplemental fee request(s).

The CONSULTANT shall demonstrate good project management practices while working on this project. These include communication with the DEPARTMENT and others as necessary, management of time and resources, and documentation. The CONSULTANT shall set up and maintain throughout the design of the project a contract file in accordance with DEPARTMENT procedures. CONSULTANTs are expected to know the laws and rules governing their professions and are expected to provide services in accordance with current regulations, codes and ordinances and recognized standards applicable to such professional services. The Consultant shall provide qualified technical and professional personnel to perform to Department standards and procedures, the duties and responsibilities assigned under the terms of this agreement. The Consultant shall minimize to the maximum extent possible the Department's need to apply its own resources to assignments authorized by the Department.

The DEPARTMENT will provide contract administration, management services, and technical reviews of all work associated with the development and preparation of contract documents, including Construction documents. The Department's technical reviews are for high-level conformance and are not meant to be comprehensive reviews. The CONSULTANT shall be fully responsible for all work performed and work products developed under this Scope of Services. The DEPARTMENT may provide job-specific information and/or functions as outlined in this contract, if favorable.

## 2 PROJECT DESCRIPTION

The CONSULTANT shall investigate the status of the projects and become familiar with concepts and commitments (typical sections, alignments, etc.) developed from prior studies.

If a Preliminary Engineering Report is available from a prior or current Project Development and Environmental (PD&E) study, the CONSULTANT shall use the approved concepts as a basis for the design unless otherwise directed by the DEPARTMENT.

***Financial Project ID: 437764-1-32-01***

***This 3R project primarily consists of resurfacing SR 10A (US 90/Mobile Highway) from SR 10 (US 90A/Nine Mile Road) to west of SR 297 (Pine Forest Road) in Escambia County. Existing travel lanes, auxiliary lanes, and paved shoulders will be resurfaced. The typical section primarily consists of two 12' travel lanes and 4'-8' shoulders (4'-5' paved). Curb is present from CMP 0.000 – CMP 0.351, and valley gutter is present from CMP 5.136 – CMP 5.362 and CMP 6.509 – CMP 6.810. An additional eastbound travel lane is present from CMP 7.453 – CMP 7.602. The right-of-way varies throughout the project limits. Additional right-of-way will be acquired in this project for the improvements described at Millview Road and Klondike Road below.***

***SR 10A, including slip lanes, will be resurfaced from the visible pavement changes at SR 10 (Section 48020000, CMP 0.000) to the visible pavement change at the intersection with Godwin Lane west of SR 297 (Pine Forest Road) (Section 48020000, CMP 7.602).***

***Millview Road (CMP 6.149) will be realigned to improve the skew angle at the intersection with SR 10A (Mobile Highway). In addition, an eastbound right turn lane on SR 10A and a northbound right turn lane on Millview Road will be constructed. Right-of-way acquisition will be required at this location.***

***This project will include adding a traffic signal and constructing turn lanes at Klondike Road (CMP 5.559). It is anticipated that the traffic signal will include mast arm supports. In addition to signalization, dedicated right turn lanes will be constructed on all four legs of the intersection along with a westbound left turn lane on SR 10A. Additional right-of-way is anticipated at this location. The CONSULTANT shall coordinate with the DEPARTMENT's Design Project Manager early in the design phase to determine whether pedestrian features should be added to this intersection. With the addition of pedestrian features, it may become necessary to provide lighting at the intersection. The DEPARTMENT may opt to have the pedestrian signal features and lighting set aside as an Optional Service for design until the determination is made. All these improvements at Klondike Road will be designed under this project (FPID 437764-1); however, any necessary right-of-way acquisition and the construction costs will be funded under FPID 444099-1. Both FPID 437764-1-52-1 and 444099-1-52-01 will be presented in one set of plans containing separate quantities specific to the scope of work for each FPID. Separate cost estimates will be generated for each phase submittal as well.***

***SR 10A has been designated as a "Hurricane Evacuation Route".***

***Three (3) signalized intersections exist within the project limits. The first signal is a flashing beacon located at the intersection with SR 10 (US 90A)(CMP 0.000). The second is a fully-actuated signal (currently under construction) at the intersection with CR 99 (Beulah Road)(CMP 2.216). The final traffic signal within the limits is at the intersection with SR 173 (Blue Angel Parkway)(CMP 6.689). No work is anticipated for the signals at***

***these locations. The traffic detector loops on SR 10A that are impacted by the resurfacing operation will be replaced. The CONSULTANT shall review and coordinate with the DEPARTMENT (and the local maintaining agency as necessary) to determine whether video detection should be implemented at any of the signalized intersections. Other anticipated signal work at includes reconstructing existing pedestrian detectors and signal heads at the intersection with SR 173 to meet Americans with Disabilities Act (ADA) access requirements.***

***Pedestrian lighting will be provided for all signalized intersections with proposed or existing crosswalks within the limits of this project.***

***Two bridges exist within the project limits (BR# 480190 – over Eleven Mile Creek and BR# 480003 – over Eight Mile Creek). BR# 480190 will require joint replacement, striping, and guardrail end anchorages and connections upgrades. BR# 480003 has an asphalt overlay and will require resurfacing, joint replacement, striping, and guardrail end anchorages and connections upgrades.***

***Per the FDOT Traffic Operations Office and the Roadway Characteristics Inventory (RCI) Database, the posted (justified) speed limit on SR 10A is 45 mph at the beginning of the project and increases to 55 mph at a point east of Belle Pines Lane (CMP 0.550). This posted speed (55 mph) is maintained throughout the rural project limits until CMP 5.136 where the posted speed decreases to 45 mph and is carried through the end of the project east of SR 727. Initial field observations of the posted speed limit agree with the RCI Database. Any contradictions to the posted (justified) speeds described above (found posted in the field or proposed by CONSULTANT) will require close coordination with the DEPARTMENT's Design Project Manager and approval from the FDOT Traffic Operations Office on the project's Typical Section Package.***

***<u>COORDINATION REQUIREMENTS:</u> This SR 10A resurfacing project should be coordinated with all adjacent County, State or private projects, including the following known projects:***

1) ***FPID 436724-1-32-01 – FDOT Project – intersection improvement at CR 99 (Beulah Road). This project is currently under construction. The DEPARTMENT's Design Project Manager for FPID 436724-1 is Mr. Tommy Johns (850-260-3215).***

***<u>SPECIFIC EXCLUSIONS:</u> This project has been discussed with District Three Management and the following project specific exclusions were identified:***

1. ***Sidewalk throughout the project limits was excluded by FDOT Management due to right-of-way constraints.***

***<u>Financial Project ID: 443651-1-32-01</u>***

***This 3R project primarily consists of resurfacing SR 298 (Lillian Highway) from just north of SR 30 (US 98) to east of SR 727 (Fairfield Drive) in Escambia County. Existing travel lanes, auxiliary lanes, and paved shoulders will be resurfaced. The typical section primarily consists of two 10' travel lanes and 6' outside shoulders (2' paved). Four-foot***

***(4') outside pavement widening in each direction will be added throughout the project to provide 12' travel lanes and 4' paved shoulders. The CONSULANT shall assess and make recommendations for the potential widening, shoulder treatment, and lane widths along SR 298 in existing curb and gutter sections. The right-of-way varies throughout the project limits. No additional right-of-way will be required.***

***SR 298 will be resurfaced from the visible pavement change north of SR 30 (Section 48110000, CMP 4.048) to the visible pavement change east of SR 727 (Section 48110000, CMP 8.140).***

***Two (2) fully-actuated signalized intersections exist within the project limits. The signals are located at the intersections with SR 173 (Blue Angel Parkway)(CMP 7.306), and SR 727 (Fairfield Drive)(CMP 7.989). The existing pedestrian signal features will be assessed and upgraded as necessary at both locations. The traffic detector loops on SR 298 that are impacted by the resurfacing operation will be replaced. The CONSULTANT shall review and coordinate with the DEPARTMENT (and the local maintaining agency as necessary) to determine whether video detection should be implemented at any of the signalized intersections. Pedestrian lighting will be provided for all signalized intersections with proposed or existing crosswalks within the limits of this project.***

***One (1) bridge exists within the project limits (BR480022 – over Millview Bayou), and no work other than striping and guardrail upgrades is expected. The guardrail end anchorages and connections to the bridge rail will be upgraded.***

***The bridge culvert at Bayou Marcus Branch (CB# 480127) will be reconstructed in this project to accommodate the planned roadway widening. This effort needs to be closely coordinated with the DEPARTMENT's Design Project Manager to ensure that there are reconstruction options within the existing right-of-way and to affirm that the intended maintenance of traffic plan (detour or diversion) is approved by all affected parties (DEPARTMENT and Escambia County).***

***In addition to the culvert at Bayou Marcus Branch, numerous crossdrains and sidedrains will be impacted by the proposed roadway widening.***

***Per the FDOT Traffic Operations Office and the Roadway Characteristics Inventory (RCI) Database, the posted (justified) speed limit on SR 45 mph throughout the project limits. Initial field observations of the posted speed limit agree with the RCI Database. Any contradictions to the posted (justified) speeds described above (found posted in the field or proposed by CONSULTANT) will require close coordination with the DEPARTMENT's Design Project Manager and approval from the FDOT Traffic Operations Office on the project's Typical Section Package.***

***<u>COORDINATION REQUIREMENTS:</u> This project should be coordinated with all adjacent County, State or private projects, including the following known projects:***

***1) FPID 436272-1-52-01 – FDOT Project – resurfacing on SR 30/SR 298 (Lillian Highway) from the Perdido Bay Bridge to CR 297 (Dogtrack Road). This project is***

***currently under construction. The DEPARTMENT's Design Project Manager is Ms. Alicia McDaniel (850-330-1378).***

2) ***FPID 436272-2-32-01 – FDOT Project – resurfacing on SR 30 from SR 298 (Lillian Highway) to SR 173 (Blue Angel Parkway). This project is currently under construction. The DEPARTMENT's Design Project Manager is Mr. Jordan Burnett (850-526-2040).***

3) ***FPID 444018-1-32-01 – FDOT Project – safety project at intersection with SR 173 (Blue Angel Parkway). This includes upgrading the existing signal to a mast arm, adding intersection lighting, and extending the southbound right turn lane on SR 173. FPID 444018-1-32-01 is managed by Jimmy Smith, PE, and has construction funding in Fiscal Year 2024.***

***<u>SPECIFIC EXCLUSIONS:</u> This project has been discussed with District Three Management and no project specific exclusions have been identified at this time.***

***<u>ALL PROJECTS</u>***

***The CONSULTANT shall take a practical approach to all projects by identifying cost savings on any/all phases of a project (design, right-of-way acquisition, and construction).***

***ADA improvements to existing pedestrian features will be included in these projects. Improvements will be made to ADA facilities at the signalized intersections where pedestrian features exist in each project. These improvements will consist of repairing deficient sidewalk, replacing/retrofitting non-compliant curb ramps, meeting clear space requirements, and upgrading pedestrian signal features. Bus Stop locations shall be assessed for access needs and landings constructed where appropriate. The need to install, upgrade, or remove pedestrian handrail shall be considered throughout. The CONSULTANT shall assess every signalized intersection and provide a revised design, where necessary to provide pedestrian crossing on all legs. An ADA Survey Report will be required for each project. See Section 4.15.***

***Multiple sideroad turnouts have been identified as having substandard radii and show signs of off-tracking and/or curb inlet damage. These locations shall be reviewed by the CONSULTANT to determine if improvements are feasible. Recommendations for radius reconstruction should be discussed with the DEPARMENT's Design Project Manager.***

***The CONSULTANT shall coordinate with District Planning Office to determine if the traffic detector loops at existing Portable Traffic Monitoring Sites (PTMS) are to be reinstalled or if the sites are to be removed.***

***All guardrail (including guardrail end anchorage assemblies and connections to bridge rail) shall be evaluated for conformance to FDOT Standards for type, height, and offset to the travel lanes and hazards. Existing guardrail shall be evaluated to determine if the***

***length of advancement meets FDOT Standards. The guardrail should be extended if required.***

***It is the DEPARTMENT's desire to make every effort to avoid impacts to trees within the project limits. The CONSULTANT shall be cognizant of the limits of construction and any work activities that may pose a threat to existing trees or their root systems. Any tree impacts perceived to be unavoidable shall be closely reviewed with the DEPARTMENT's Design Project Manager who will in turn review with other DEPARTMENT staff as appropriate. When there is the potential to impact trees, the CONSULTANT shall be prepared to provide and present alternate design scenarios with corresponding cost estimates and implications (drainage, utilities, etc.) when requested.***

***Features installed on FDOT R/W by non-FDOT, private entities should be considered by the CONSULTANT as they relate to potential impacts. Within these project limits, landscaping, irrigation, signs, mailboxes, etc. are expected to be encountered and potentially impacted by construction activities. The construction plans must address the course of action for coordination.***

***All necessary Geotechnical efforts will be provided by the CONSULTANT.***

The CONSULTANT shall incorporate the following into the design of this facility:

**2.1 Project General and Roadway (Activities 3, 4, and 5)**

Public Involvement: ***Each of these projects will have a Community Awareness Plan (CAP) Level II, including a Public Information Meeting/Workshop. The CONSULTANT shall create project specific .shtm files immediately prior to each Public Information Meeting/Workshop to be posted by the DEPARTMENT to the NWFLRoads.com web site. See Section 3.1.12 for specific requirements.***

Other Agency Presentations/Meetings: ***Project updates will be provided to the Local Municipalities and any affected regional MPO/TPO organization for the project as described in Section 3.1.2.***

Joint Project Agreements: ***There have been NO JPAs identified at this time. Section 3.2 provides additional guidance.***

***Maintenance Agreement: A maintenance agreement will be required for the new traffic signal at Klondike Road. This will be obtained by the DEPARTMENT prior to submitting the final plans package for letting.***

***Project Agreement: N/A***

***Offsite Detour Approval Form and Plan: N/A***

***Lane Closure(s) During Design Phase Approval: If a lane closure is anticipated for any purpose during the design phase of a project (i.e., survey, geotechnical investigation, pavement coring, etc.) the CONSULTANT shall provide the DEPARTMENT's Design Project Manager with all the necessary project/task***

***related information in a memo form to pursue approval from the District Design Office. Needed information includes 1) the location of the lane closure, 2) the scope of work at the location, 3) the duration of closure, 4) when (date/time) that the work is requested to be performed, 5) Google Earth *.kmz file(s) of the location(s), and 6) Temporary Traffic Control Plans. The approval must be received before the specified work can commence.***

Specification Package Preparation: ***To be negotiated and completed during the Plans Update phase. See the requirements described in Sections 3.3 & 3.7.***

Value Engineering: ***N/A***

Risk Assessment Workshop: ***N/A***

Plan Type: ***The CONSULTANT shall provide only the roadway and/or structures plans and miscellaneous details necessary to construct these projects. The DEPARTMENT's intent is to minimize the design and survey effort where possible. The CONSULTANT shall develop and sign and seal the plans electronically in accordance with Sections 3.9 & 37.5.***

Typical Section:

***For 437764-1, the typical section primarily consists of two 12' travel lanes and 4'-8' shoulders (4'-5' paved). Curb is present from CMP 0.000 – CMP 0.351, and valley gutter is present from CMP 5.136 – CMP 5.362 and CMP 6.509 – CMP 6.810. An additional eastbound travel lane is present from CMP 7.453 – CMP 7.602. The right-of-way varies throughout the project limits.***

***For FPID 443651-1, The typical section primarily consists of two 10' travel lanes and 6' outside shoulders (2' paved). Four-foot (4') outside pavement widening in each direction will be added throughout the project to provide 12' travel lanes and 4' paved shoulders. The right-of-way varies throughout the project limits.***

***Resurfacing Limits: For FPID 437764-1, SR 10A (US 90/Mobile Highway) will be resurfaced from SR 10 (US 90A/Nine Mile Road) (CMP 0.000) to the visible pavement change just west of SR 297 (Pine Forest Road) CMP 7.602).***

***For FPID 443651-1, SR 298 (Lillian Highway) will be resurfaced from just north of SR 30 (US 98) (CMP 4.048) to east of SR 727 (Fairfield Drive) (CMP 8.140).***

***Right-of-Way: Right-of-way (R/W) acquisition will be required for the planned intersection improvements at Millview Road and Klondike Road within the limits of FPID 437764-1. Existing R/W lines, including stations and offset distances at breaks, will be shown on all plan sheets.***

***License Agreements may be appropriate and used for the purpose of harmonizing driveways and slopes where roadway widening occurs along SR 298 in FPID 443651-1. As early as possible, the CONSULTANT will be required to assist in defining and presenting the requirements at each location.***

Pavement Design: ***The DEPARTMENT will provide the Pavement Design for both of these projects.***

Pavement Type Selection Report(s): ***N/A***

Cross Slope: ***There have been no cross-slope deficiencies identified in this project at this time. As early as possible, the collected survey data along this project shall be analyzed by the CONSULTANT to determine if minimum and maximum cross slope requirements are met throughout the project limits. Once the determination is made that cross-slope correction will be implemented, the CONSULTANT must determine if any additional survey is required to provide an adequate design and accurate quantities. The CONSULTANT will coordinate with the DEPARTMENT's Design Project Manager and the District Survey Office to determine how much additional survey is required and what is the most economical method of obtaining the additional data. The CONSULTANT shall then review the cross sections with the District Construction Office and the District Bituminous Engineer to determine the method of correction (variable depth milling or overbuild) and the details/tables required. A proposed design for cross slope correction must be included in the Phase II Plans.***

Access Management Classification: Both projects have an Access Management Classification of 4.

***The only Access Management improvements identified at this time consist of potential driveway closures or modifications to improve pedestrian or vehicular access and safety based on crash history. No specific locations have been identified to focus this effort; however, the CONSULTANT will be responsible for reviewing the available crash history and coordinating with the DEPARTMENT and local government contacts to identify any locations that may warrant further study or improvements. The CONSULTANT is to be aware that only a minimal amount of access management work (if any) will be considered for this 3R project.***

***All recommendations for access management improvements are to be closely coordinated with the DEPARTMENT's Design Project Manager. The CONSULTANT shall be aware that certain proposed deviations from access management and median opening spacing standards must be presented to the District Access Management Review Committee (AMRC)(see also Sections 3.1.4 and 4.6). At a minimum, non-typical access management, driveway, and median opening issues that cannot be resolved by standard review processes at the District Design Office level, as well as proposed full movement median openings not meeting the spacing standards in Rule Chapter 14-97, F.A.C by a threshold of 10% or more shall be taken to the AMRC for review.***

Transit Route Features: ***Escambia County Area Transit (ECAT) routes exist within the project limits.***

Major Intersections/Interchanges: ***N/A***

Roadway Alternative Analysis: ***N/A***

Level of TTCP Plans: The CONSULTANT shall provide a TTCP Level 1.

***Temporary Traffic Control Plans (TTCP) will be required for these projects. The FDOT Standard Plans, 102 series, should be utilized for all work being performed on or adjacent to existing roadways. A reduction in the number of lanes will require that a lane closure analysis be performed by the CONSULTANT. See Section 4.10 for further guidance.***

***SR 10A (FPID 437764-1) has been designated as a "Hurricane Evacuation Route". All lanes must be open for traffic within 12 hours of a hurricane evacuation notice and shall remain open for the duration of the event as directed by the Project Administrator.***

***Consideration must also be given to the movement and safety of pedestrian and bicycle traffic during construction.***

Temporary Lighting: N/A

Temporary Signals: N/A

Temporary Drainage: N/A

Design Variations/Exceptions: ***The CONSULTANT should review all existing features within the project limits for a functional design that will meet FDOT design standards and make a determination whether a Design Variation or Exception is appropriate.***

***Conditions may be identified during design that may warrant design variations or exceptions. The CONSULTANT is to submit the requests for Variations and Exceptions to the DEPARTMENT as early as possible for approval in order to minimize potential schedule delays. The CONSULTANT is to be aware that omitting certain work items may require approval at the District Director level (see FDM 114.1.1). The CONSULTANT will coordinate with the DEPARTMENT's Project Manager to obtain this approval.***

Back of Sidewalk Profiles: ***N/A***

Selective Clearing and Grubbing: ***N/A***

**2.2 Drainage (Activities 6a and 6b)**

System Type: ***Both FPID 437764-1 and FPID 443651-1 have an open drainage system throughout the project limits.***

***Drainage improvements are anticipated including constructing mitered end sections, reconstructing sidedrains, repairing inlets, and reconstructing or extending crossdrains. The CONSULTANT shall anticipate that all stormsewer manholes located within areas of resurfacing will require adjustment and the plans and estimates shall be prepared accordingly.***

***A number of sidedrains have broken mitered end sections. Every location should be reviewed and any broken mitered end that is creating a safety hazard should be reconstructed.***

***The CONSULTANT should review all locations for a functional design that will meet FDOT clearzone criteria. A Design Exception will be required if any drainage structure creates a hazard in the clear zone and is to remain.***

***All existing drainage structures within the limits of construction shall be shown on the construction plans. The CONSULTANT shall inspect all drainage structures for function, scour, erosion, structural integrity, accumulation of sediments, and design as it pertains to pedestrian and vehicular safety. Prior to submitting staffhours, the CONSULTANT shall clearly communicate the drainage survey needs to the SURVEYOR and shall minimize the survey effort where possible. Drainage design treatments should be discussed with the DEPARTMENT's Design Project Manager and the District Drainage Office before being added to the construction plans.***

**2.3 Utilities Coordination (Activity 7)**

***The DEPARTMENT will be responsible for utility coordination associated with this project.***

***The CONSULTANT will identify which utilities exist within the corridor during the survey phase by calling Sunshine 811. A copy of the Sunshine 811 "design" ticket listing all utility owners within the project limits shall be provided within 10 business days of the Notice to Proceed (NTP).***

***Once the draft design is apparent, the CONSULTANT shall determine if any additional survey is required regarding utility designations in order to provide an adequate design and accurate quantities. The CONSULTANT will coordinate with the DEPARTMENT's Design Project Manager and the District Survey Office to determine how much additional survey is required and what is the most economical method of obtaining the additional data.***

***The CONSULTANT will be responsible for showing areas that may be affected by construction. The CONSULTANT will evaluate utilities for potential impacts and prepare a Utility Conflict Matrix as directed by Section 7.7 of this document. An example Utility Conflict Matrix can be provided by the DEPARTMENT's Design Project Manager if necessary. The matrix will be required with the Phase II submittal and will be updated and submitted with every phase thereafter.***

***Above-ground utility installations that have been struck three times within the latest 5-year period shall be assessed for relocation options. For installations with a crash history WITHOUT viable options for relocation within the R/W, the CONSULTANT will be responsible for obtaining Design Exceptions. Above-ground utility installations with a crash history WITH available R/W for relocation shall be relocated or the Utility Agency Owner (UAO) will be responsible for pursuing and obtaining a Design Exception.***

***The CONSULTANT is to review the UAO marked up plans and the Utility Work Schedules as they are received and assure that they are compatible with the proposed design features in the plans. The CONSULTANT shall review the specific details of the markups and schedules with the Area Utility Manager as required to finalize the status of each potential conflict. The CONSULTANT shall also verify that the schedules conform to the construction phasing and TTCP sequences.***

**2.4 Environmental Permits, Compliances, and Clearances (Activity 8)**

***The CONSULTANT shall coordinate with appropriate agencies for all necessary permits. Potential agencies requiring coordination include but are not limited to: United States Coast Guard, Northwest Florida Water Management District, Florida Department of Environmental Protection, and US Army Corps of Engineers.***

***The CONSULTANT shall be responsible for the identification, coordination and applications for all permits necessary to construct this project. All application and processing fees, including fees for any public notice required by the permit, shall be paid for by the CONSULTANT.***

**2.5 Structures (Activities 9 – 18)**

***FPID 437764-1 / The following bridges are within the limits of the SR 10A resurfacing project:***

- ***SR 10A over Eleven Mile Creek (Bridge No. 480190)(CMP 5.237 - CMP 5.295). This bridge has a concrete deck with no asphalt overlay and will require joint replacement, striping, and guardrail end anchorage and connection upgrades.***

- ***SR 10A over Eight Mile Creek (Bridge No. 480003)(CMP 5.996 - 6.008). This bridge has an asphalt overlay and will require resurfacing, joint replacement, striping, and guardrail end anchorage and connection upgrades.***

***FPID 443651-1 / The following structures are within the limits of the SR 298 resurfacing project:***

- ***SR 298 over Millview Bayou (Bridge No. 480022)(CMP 5.939 – CMP 5.984). This bridge has a concrete deck with no asphalt overlay and will require no work other than striping, and guardrail end anchorage and connection upgrades.***

- ***SR 298 over Bayou Marcus Branch (CB# 480127)(CMP 7.587 – 7.591). This bridge culvert will be reconstructed in this project to accommodate the planned roadway widening.***

***A load rating analysis will be required if the pavement design results in a change in the dead load on any of these structures. See Section 12.28.***

***Milling and resurfacing on any bridge will require expansion joint replacement. Coordinate with the District Structures Design Engineer and the District Bridge Maintenance Engineer to determine the appropriate type of expansion joint material needed for the replacement. The CONSULTANT shall provide adequate plan details to accommodate the joint replacement.***

Retaining Walls: ***N/A***

Noise Barrier Walls: ***N/A***

Mast Arms: ***FPID 437764-1: A new traffic signal with mast arm signal supports will be constructed at the intersection of SR 10A (Mobile Highway) & Klondike Road (section 48020000, CMP 5.559). A Structure Number Request Form will be required at the Phase II submittal for this new mast arm installation. Along with the form, the CONSULTANT shall submit applicable plan and elevation sheets and a project location map.***

Miscellaneous: ***N/A***

**2.6 Signing and Pavement Markings (Activities 19 & 20)**

***The CONSULTANT shall be responsible for the design, details, and quantities associated with signing and pavement markings for this project. The CONSULTANT shall coordinate with the DEPARTMENT's Design Project Manager and the District Roadway Design Engineer to determine the most appropriate type of edge line for this application. If consideration of audible and vibratory pavement marking treatment is required by the FDOT Design Manual, provide the DEPARTMENT's Design Project Manager with an explanation of crash history, treatment recommendations, and a *.kmz graphically representing proposed audible and vibratory treatment to pursue approval from the District Design Office. The CONSULTANT shall evaluate the existing signage to determine the need for additional signs, correcting redundant or conflicting signage, and the replacement of damaged signs.***

***The CONSULTANT shall evaluate and design all signs to meet current Design Standards and the FDOT Multi-Post Sign Program.***

***A No Passing Zone Study will be required for both projects.***

**2.7 Signalization (Activities 21 & 22)**

Intersections:

***Three (3) signalized intersections exist within the project limits of FPID 437764-1-32-01 at the following locations:***

1) ***SR 10 (US 90A) (CMP 0.000) – flashing beacon***
2) ***CR 99 (Beulah Road)(CMP 2.216) – mast arms***

***3) SR 173 (Blue Angel Parkway) (CMP 6.689) – mast arms with pedestrian features***

***Two (2) signalized intersections exist within the project limits of FPID 443651-1-32-01 at the following locations:***

***1) SR 173 (Blue Angel Parkway) (CMP 7.306) – strain poles with pedestrian features (future upgrades planned via FPID 444018-1)***
***2) SR 727 (Fairfield Drive) (CMP 7.989) – mast arms with pedestrian features***

***The CONSULTANT shall review and coordinate with the DEPARTMENT (and the local maintaining agency as necessary) whether to install video detection at the signalized intersections where traffic detector loops are impacted by the milling operation.***

***Other anticipated signal work throughout the project includes reconstructing pedestrian detectors and signal heads to meet Americans with Disabilities Act (ADA) access requirements. Potentially, some of the signal heads will have LED indications and some will have incandescent heads. At this time, upgrades to LED indications is NOT included in this project.***

***Traffic Data Collection: N/A***

***Traffic Studies: N/A***

***Traffic Monitoring Sites: Portable Traffic Monitoring Sites (PTMS) may exist within the project limits. These sites are typically removed during these milling and resurfacing projects. Coordinate with the FDOT District 3 Planning Department for information regarding the removal.***

***There are no Telemetered Traffic Monitoring Sites (TTMS) within the project limits.***

## 2.8 Lighting (Activities 23 & 24)

***The CONSULTANT will be required to assess the existing lighting at pedestrian crossings within the projects and be cognizant of lighting being proposed in other projects (see Coordination Requirements above), then determine the need for additional lighting for this project. At a minimum, this project will be responsible for providing the required lighting at pedestrian crossing locations.***

***The criteria used for the lighting analysis includes horizontal lighting illuminance standards for roadway and sidewalk lighting and enhanced horizontal and vertical lighting illuminance standards for signalized intersections as found in the FDOT Design Manual. Existing utility poles will be utilized to mount luminaires to the extent possible. A Lighting Design Analysis Report will be produced documenting all lighting design decisions and calculations.***

***The CONSULTANT is expected to coordinate closely with the DEPARTMENT's Area Utility Manager and the area power provider in order to maximize the use of the UAO's poles and service. The DEPARTMENT's preference is for the UAO to install and maintain the necessary lights as specified by the CONSULTANT.***

***If a determination is made that the UAO is unable to provide the needed lighting services, a Supplemental Agreement will be processed with the CONSULTANT to finalize the lighting design and plans, including the service design/voltage drop calculations.***

**2.9 Landscape Architecture (Activities 25 & 26)** (Not applicable to this project)

**2.10 Survey (Activity 27)** (**To Be Provided By The DEPARTMENT**)

Design Survey: ***The Primary and Secondary Horizontal and Vertical control and the Design Survey will be provided by the DEPARTMENT.***

***Production Survey Meeting - Following the Phase I submittal, the CONSULTANT, the DEPARTMENT's SURVEYOR, the District Surveyor, and the DEPARTMENT's Design Project Manager shall meet if it is determined that additional survey is required in order to provide an adequate design and accurate quantities. The CONSULTANT shall provide any necessary graphic depictions and/or descriptions of areas needing additional survey.***

Subsurface Utility Exploration: ***The DEPARTMENT will provide any subsurface utility excavations (SUE) that are required for the projects. SUE may be required at proposed mast arm locations or where drainage structure construction or modification is expected to be in conflict with buried utilities.***

Right-of-Way Survey: ***The DEPARTMENT will perform a R/W Survey for this project due to the need for additional R/W (fee simple or easement).***

**2.11 Photogrammetry (Activity 28)** (Not applicable to this project)

**2.12 Mapping (Activity 29)** (**To Be Provided By The DEPARTMENT**)

***As early as possible, the CONSULTANT shall provide map(s) or plan sheets accompanied by a *.kmz file reflecting the requirements for additional right-of-way. The right-of-way requirements submittal shall identify, via highlighting in varying colors (not yellow), the existing right-of-way, required right-of-way, temporary construction easements (TCEs), perpetual easements, intended license agreements (LAs), and limits of construction. In addition, this submittal will indicate in some way whether the submittal is draft or final. The initial, draft requirements submittal and subsequent draft requirements submittals can be submitted electronically to the DEPARTMENT's Design Project Manager. An updated *.kmz file is expected with each resubmittal. The requirements are not considered final until indicated by the DEPARTMENT. Once the requirements are approved, the CONSULTANT shall designate each sheet as "final" and transmit to the DEPARTMENT's Design Project Manager in *.pdf format (the file***

***name shall include the FPID number). The effort for this task will be negotiated in Section 4.19.***

Control Survey Map: ***Not Applicable for these projects.***

Right-of-Way Map: ***The R/W Maps will be prepared by the DEPARTMENT.***

Maintenance Map: ***Not Applicable for these projects.***

Legal Descriptions: ***To be prepared by the DEPARTMENT.***

**2.13 Terrestrial Mobile LiDAR (Activity 30)** (Not applicable to this project)

**2.14 Architecture (Activity 31)** (Not applicable to this project)

**2.15 Noise Barriers (Activity 32)** (Not applicable to this project)

**2.16 Intelligent Transportation Systems (Activities 33 & 34)** (Not applicable to this project)

**2.17 Geotechnical (Activity 35)**

***The Pavement Condition Survey (including coring, testing, and preparing the report) will be provided by the CONSULTANT as directed in Section 35.22 of this Scope of Services. The DEPARTMENT will be responsible for the Pavement Designs.***

***The CONSULTANT shall be responsible for any necessary geotechnical activities associated with these projects. The CONSULTANT shall coordinate with the DEPARTMENT's Design Project Manager and the DEPARTMENT's Geotechnical Project Manager regarding information needed.***

**2.18 3D Modeling (Activity 36)** (Not applicable to this project)

**2.19 Project Schedule**

Within ten (10) days after the Notice-To-Proceed, and prior to the CONSULTANT beginning work, the CONSULTANT shall provide a detailed ***Critical Path Method (CPM)*** project schedule. ***The*** DEPARTMENT and CONSULTANT scheduled activities ***are*** required to meet the current DEPARTMENT Production Date. ***The project schedule shall include the following: project FPID and project description, FDOT PSM standard activity codes and description for all activities, original duration, activity start date, activity finish date, activity percent complete, activity predecessor(s) and successor(s). The schedule shall be based upon the durations and schedule negotiated during the project staff hour negotiations process.*** For the purpose of scheduling, the CONSULTANT shall allow for a ***three (3)*** week review time for each phase review and other submittals as appropriate.

The schedule shall indicate, ***at a minimum, proposed dates for Phase I, II, III, and IV plans and all other appropriate milestones and*** required submittals.

All fees and price proposals are to be based on the negotiated schedule of ***XX*** months for final construction contract documents. However, the contract deadline is ***XX*** months from the Notice to Proceed.

Periodically, throughout the life of the contract, the project schedule shall be reviewed and, with the approval of the DEPARTMENT, adjusted as necessary to incorporate changes in the Scope of Services and progress to date.

The approved ***monthly updated project*** schedule and schedule status report shall be submitted with the monthly progress report ***to the DEPARTMENT's Design Project Manager***. ***The CONSULTANT will also be required to make monthly schedule updates for tasks assigned to the CONSULTANT in FDOT Project Suite Enterprise Edition (PSEE). Schedule updates are due the last Friday of each month.***

***Initial and revised*** schedule***s*** shall be submitted ***electronically in *.pdf, Word, or Excel*** format.

***Additional information, the PSEE link, and schedule update training can be found at http://www.fdot.gov/designsupport/Districts/D3/default.shtm .***

## 2.20 Submittals

The CONSULTANT shall furnish construction contract documents as required by the DEPARTMENT to adequately control, coordinate, and approve the work concepts. The CONSULTANT shall distribute submittals as directed by the DEPARTMENT. The DEPARTMENT will determine the specific number of copies required prior to each submittal.

***The DEPARTMENT's Electronic Review and Comment (ERC) system will be used for project reviews. Upon Notice to Proceed, the DEPARTMENT's Design Project Manager will coordinate with the CONSULTANT to provide the required access into the ERC system.***

***Phase Submittal Delivery: The delivery will include ONLY the submittal components (not the entire project directory and files). The delivery will be transmitted to the DEPARTMENT's Design Project Manager via ftp site, FTA, or other electronic file storage media and will include all construction plans components (roadway, signing & pavement marking, signalization, etc.) in *.pdf format, as well as the other submittal components described below for each submittal. The CONSULTANT shall coordinate with the DEPARTMENT's Design Project Manager to determine whether hard copy sets of plans or CDs/DVDs are required at any or all phase submittals. The CONSULTANT shall provide a *.kmz file of the project with each submittal. The *.kmz file needs to include the layers necessary to compare proposed construction features with the***

***existing utilities as well as the limits of construction (LOC) and right-of-way (R/W).***

***Design Report:*** ***The requirements for a Design Report (aka: Design Documentation Book/ Design Docs/ Doc Book/ 3R Report) and an ADA Survey Report are described in Section 4.15.***

***PRIOR TO PHASE I SUBMITTAL:***

***Access Management Study:*** ***N/A***

***Quality Assurance/ Quality Control (QA/QC) Plan:*** ***The CONSULTANT shall submit their QA/QC Plan that will be used during the design of this project to the DEPARTMENT's Design Project Manager for reference within 20 (twenty) calendar days of the written Notice to Proceed. As a minimum, the QA/QC Plan shall include the details of all plan review processes to be utilized and sufficient file documentation to show that the QA/QC plan has been followed. See Section 3.0 (Project Common Tasks).***

***Alignment & Survey Submittals:*** ***To be prepared by the DEPARTMENT***

***UAO Identification / Sunshine 811 "Design" Ticket:*** ***A copy of the Sunshine 811 "design" ticket listing all utility owners within the project limits shall be included with all phase submittals. See Section 7.2 for additional information regarding this requirement.***

***Miscellaneous Design/ Production Document Submittals:*** ***The CONSULTANT shall submit to the DEPARTMENT for review, and receive concurrence for, the Initial Project Schedule, the Community Awareness Plan, the Typical Section Package, Design Variations and/or Exceptions (if applicable), and other documents as required by the FDOT Design Manual (FDM) and the Scope of Services.***

***PHASE I:***

***The CONSULTANT shall submit to the DEPARTMENT's Design Project Manager for distribution:***

- ***one (1) electronic copy of the Plans,***
- ***one (1) electronic copy of the QC Marked-up Plans,***

***The submittal shall, at a minimum, include *.pdf files of the components listed above, as well as the Design Report, *.kmz file of the project, ADA Survey Report, and Sunshine 811 "design" ticket.***

***Along with the Phase I plans submittal, the CONSULTANT shall submit the construction cost estimate using the DEPARTMENT's Long Range Estimating System (L.R.E.). The District Preliminary Estimates Office will provide the CONSULTANT with a version of the L.R.E. in the system for their use.***

***Following the PHASE I review and prior to the PHASE II submittal, the District Survey Office requests that the prime CONSULTANTS provide the Surveyor of Record with the plans and allow time for a review to check the survey/ construction layout, alignments, control information (including R/W control if applicable), curve data, layout information, etc.***

***As early as possible, the CONSULTANT shall provide map(s) or plan sheets reflecting the requirements for additional right-of-way. This effort is described in Section 4.19.***

***PHASE II:***

***The CONSULTANT shall submit to the DEPARTMENT's Design Project Manager for distribution:***

- ***one (1) electronic copy of the Plans,***
- ***one (1) electronic copy of the QC Marked-up Plans,***
- ***one (1) electronic copy of any Technical Special Provision (if applicable)***
- ***one (1) electronic copy of the No Passing Zone Study***
- ***one (1) electronic copy of the Preliminary Lighting Design Analysis Report***
- ***one (1) audible and vibratory markings recommendation (see Section 19.10)***
- ***one (1) electronic copy of each completed Structure Number Request Form necessary for any new structure type (mast arms (one per intersection), high mast light poles, sign structures, and/or bridges). Along with the form, the CONSULTANT shall submit applicable plan and elevation sheets and a project location map.***

***The submittal shall, at a minimum, include *.pdf files of the components listed above, as well as the Design Report, *.kmz file of the project, Sunshine 811 "design" ticket, Utility Conflict Matrix, ADA Survey Report, and a scanned copy of the Constructability Phase Review Checklist (per the Construction Project Administration Manual (CPAM)).***

***Along with the Phase II plans submittal, the CONSULTANT shall submit the construction cost estimate using the DEPARTMENT's Long Range Estimating System (L.R.E.). The District Preliminary Estimates Office will provide the CONSULTANT with a version of the L.R.E. in the system for their use.***

***The CONSULTANT shall submit plans to each of the affected local government(s) designated contact for a three-week review. See Section 3.1.2 of this document for details regarding Local Government Involvement.***

***As early as possible, the CONSULTANT shall provide the DEPARTMENT's Design Project Manager with the Preliminary R/W Requirements for review and***

***approval for FPID 437764-1. Phase III submittal should only occur upon receiving approval for the proposed R/W requirements.***

***PHASE III:***

***The CONSULTANT shall submit to the DEPARTMENT's Design Project Manager for distribution:***

- ***one (1) electronic copy of the Plans,***
- ***one (1) electronic copy of the QC Marked-up Plans,***
- ***one (1) electronic copy of any Technical Special Provision (if applicable)***
- ***one (1) electronic copy of the CONSULTANT's Construction Cost Estimate,***
- ***one (1) electronic copy of the CONSULTANT's Contract Time Estimate,***
- ***one (1) electronic copy of the Revised Lighting Design Analysis Report***
- ***one (1) digitally sealed electronic copy of the Bridge Load Ratings (with output data) in accordance with the FDOT Load Rating Manual***
- ***two (2) hard copies of the Geotechnical Report***

***The submittal shall, at a minimum, include *.pdf files of the components listed above, as well as the Design Report, *.kmz file of the project, Sunshine 811 "design" ticket, Utility Conflict Matrix, ADA Survey Report, and a scanned copy of the Constructability Phase Review Checklist (per the Construction Project Administration Manual (CPAM)).***

***The CONSULTANT shall submit plans to each of the affected local government(s) designated contact for a three-week review. See Section 3.1.2 of this document for details regarding Local Government Involvement.***

***PHASE IV:***

***The CONSULTANT shall submit to the DEPARTMENT's Design Project Manager for distribution:***

- ***one (1) electronic copy of the Plans,***
- ***one (1) electronic copy of the QC Marked-up Plans,***
- ***one (1) electronic copy of the CONSULTANT's Construction Cost Estimate,***
- ***one (1) electronic copy of the CONSULTANT's Contract Time Estimate,***
- ***one (1) electronic copy of the Lighting Design Analysis Report***
- ***one (1) digitally sealed electronic copy of the Bridge Load Ratings (with output data) in accordance with the FDOT Load Rating Manual if any design changes have occurred that will affect the ratings since the previous submittal***
- ***two (2) hard copies of the Geotechnical Report***

***The submittal shall, at a minimum, include *.pdf files of the components listed above, as well as the Design Report, *.kmz file of the project, Sunshine 811 "design" ticket, Utility Conflict Matrix, ADA Survey Report, and a scanned copy of the Constructability Phase Review Checklist (per the Construction Project Administration Manual (CPAM)).***

***SUBMITTAL FOR "THE SHELF":***

***The CONSULTANT must submit a District 3 Change Memo to the District Preliminary Estimates Office to have Project Preconstruction (PrP) unlocked if changes are made following the PHASE IV submittal that affect the pay-items or quantities in PrP. A copy of the District 3 Change Memo can be obtained from the DEPARTMENT's Design Project Manager or the District Preliminary Estimates Office.***

***Upon addressing the PHASE IV review comments, the CONSULTANT shall submit to the DEPARTMENT's Design Project Manager the following in an electronic format via ftp site, FTA, or other electronic file storage media:***

- ***PHASE IV Plans,***
- ***PHASE IV QC Marked-up Plans,***
- ***Design Report,***
- ***Engineer's Construction Cost Estimate,***
- ***CONSULTANT's Contract Time Estimate,***
- ****.kmz file of the project,***
- ***Sunshine 811 "design" ticket,***
- ***Utility Conflict Matrix,***
- ***Geotechnical Reports,***
- ***ADA Survey Report,***
- ***Constructability Phase Review Checklist***

***The CONSULTANT shall transmit the applicable electronic project files to the DEPARTMENT's Area Utility Manager.***

***PHASE IV RE-SUBMITTAL:***

***If the project spends one (1) year or more "on the shelf" and/or substantial changes have been made during Plans Update to the plans, pay items, or quantities after the Phase IV review, the CONSULTANT shall prepare a second Phase IV submittal. This submittal will include the requirements listed for Phase IV. This submittal will be made well in advance of the Final Submittal to the DEPARTMENT's Plans Processing Group. This will allow time to address comments in advance of the Final Submittal.***

***The DEPARTMENT's Design Project Manager will determine whether the Phase IV re-submittal will include a distribution to the local governments. See Section 3.1.2 of this document for details regarding Local Government Involvement.***

***The CONSULTANT must submit a District 3 Change Memo to the District Preliminary Estimates Office to have PrP unlocked if changes are made during Plans Update that affect the pay-items or quantities in PrP. A copy of the District 3 Change Memo can be obtained from the DEPARTMENT's Design Project Manager or the District Preliminary Estimates Office.***

***The CONSULTANT must submit an electronic copy of the Plans Update Memo to describe in general terms the changes made to each sheet since the project was "shelved". A copy of the Plans Update Memo can be obtained from the DEPARTMENT's Design Project Manager.***

***Any design changes affecting utilities that occur after the PHASE IV or PHASE IV Resubmittal must be coordinated with the DEPARTMENT's Design Project Manager and submitted to the DEPARTMENT's Area Utility Manager so that Utility Work Schedules can be updated.***

***The effort for preparing a PHASE IV Re-Submittal will be negotiated as a part of the Plans Update Services. See Section 3.7 for more information regarding Plans Update.***

***<u>FINAL PLANS SUBMITTAL TO PLANS PROCESSING</u>:***

***This submittal will occur upon addressing PHASE IV (or PHASE IV RE-SUBMITTAL) comments or following the Plans Update phase and less than one (1) year spent "on the shelf".***

***If changes are made to the plans after the PHASE IV review that affect the pay-items or quantities in PrP, the CONSULTANT must submit a District 3 Change Memo to the District Preliminary Estimates Office to have PrP unlocked. A copy of the District 3 Change Memo can be obtained from the DEPARTMENT's Design Project Manager or the District Preliminary Estimates Office.***

***The CONSULTANT must submit an electronic copy of the Plans Update Memo to describe in general terms the changes made to each sheet since the project was "shelved". A copy of the Plans Update Memo can be obtained from the DEPARTMENT's Design Project Manager.***

***<u>Final Project Submittal to ERC</u>: The CONSULTANT shall submit the following to the DEPARTMENT's Design Project Manager via ftp site, FTA, or other electronic file storage media to post to ERC for the District's Plans Processing Group's review:***

- ***electronic *.pdf copy of each component of the final plans. The plans must be electronically sealed using the Digital Delivery method for the second and subsequent submittals. Not the first.***
- ***a complete Specifications Package including any Technical Special Provisions and/or incentive/disincentive cost analyses and backup documentation (when necessary)***

- ***the Project-CADD.zip folder with all project design files***
- ***the Compliance Certification Checklist Report. This report shall be signed by the Engineer of Record to certify that all electronic deliverables are complete, in the proper format, and all plans and specifications are signed and sealed with the same program.***

***Any design changes since the previous submittal affecting utilities must be coordinated with the DEPARTMENT's Design Project Manager and submitted to the DEPARTMENT's Area Utility Manager so that Utility Work Schedules can be updated.***

***The CONSULTANT will expeditiously address the comments received in ERC and be prepared to resubmit the final plans package once the review period in ERC is complete. A minimum of two (2) complete reviews using the ERC system will occur at this juncture, followed by subsequent Final Project CD/DVD submittals as necessary.***

***<u>Final Project Submittal</u>: The CONSULTANT shall submit the following to the DEPARTMENT's Design Project Manager via ftp site, FTA, or other electronic file storage media for the District's Plans Processing Group's review once the ERC reviews are complete:***

- ***final plans electronically sealed using the Digital Delivery method***
- ***a complete Specifications Package including any Technical Special Provisions and/or incentive/disincentive cost analyses and backup documentation (when necessary)***
- ***the Project-CADD.zip folder with all project design files***
- ***the Compliance Certification Checklist Report. This report shall be signed by the Engineer of Record to certify that all electronic deliverables are complete, in the proper format, and all plans and specifications are signed and sealed with the same program.***
- ***all project data and its location noted in the project journal.***

***Upon addressing all comments received during the Final Plans Processing review, the CONSULTANT shall transmit electronic project files to the DEPARTMENT's Area Utility Manager as described in the requirements above.***

## 2.21 Provisions for Work

All work shall be prepared with English units in accordance with the latest editions of standards and requirements utilized by the DEPARTMENT which include, but are not limited to, publications such as:

- General
  - Title 29, Part 1910, Standard 1910.1001, Code of Federal Regulations (29 C.F.R. 1910.1001) – Asbestos Standard for Industry, U.S. Occupational Safety and Health Administration (OSHA)

- 29 C.F.R. 1926.1101 – Asbestos Standard for Construction, OSHA
- 40 C.F.R. 61, Subpart M - National Emission Standard for Hazardous Air Pollutants (NESHAP), Environmental Protection Agency (EPA)
- 40 C.F.R. 763, Subpart E – Asbestos-Containing Materials in Schools, EPA
- 40 C.F.R. 763, Subpart G – Asbestos Worker Protection, EPA
- Americans with Disabilities Act (ADA) Standards for Accessible Design
- AASHTO – A Policy on Design Standards Interstate System
- AASHTO – Roadside Design Guide
- AASHTO – Roadway Lighting Design Guide
- AASHTO – A Policy for Geometric Design of Highways and Streets
- AASHTO – Highway Safety Manual
- Rule Chapter 5J-17, Florida Administrative Code (F.A.C.), Standards of Practice for Professional Surveyors and Mappers
- Chapter 469, Florida Statutes (F.S.) – Asbestos Abatement
- Rule Chapter 62-257, F.A.C., Asbestos Program
- Rule Chapter 62-302, F.A.C., Surface Water Quality Standards
- Code of Federal Regulations (C.F.R.)
- Florida Administrative Codes (F.A.C.)
- Chapters 20, 120, 215, 455, Florida Statutes (F.S.) – Florida Department of Business & Professional Regulations Rules
- Florida Department of Environmental Protection Rules
- FDOT Basis of Estimates Manual
- FDOT Computer Aided Design and Drafting (CADD) Manual
- FDOT Standard Plans
- FDOT Flexible Pavement Design Manual
- FDOT - Florida Roundabout Guide
- FDOT Handbook for Preparation of Specifications Package
- FDOT Instructions for Design Standards
- FDOT Instructions for Structures Related Design Standards
- FDOT Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (“Florida Greenbook”)
- FDOT Materials Manual
- FDOT Pavement Type Selection Manual
- FDOT Design Manual
- FDOT Procedures and Policies
- FDOT Procurement Procedure 001-375-030, Compensation for Consultant Travel Time on Professional Services Agreements
- FDOT Project Development and Environmental Manual
- FDOT Project Traffic Forecasting Handbook
- FDOT Public Involvement Handbook
- FDOT Rigid Pavement Design Manual
- FDOT Standard Specifications for Road and Bridge Construction
- FDOT Utility Accommodation Manual
- Manual on Speed Zoning for Highways, Roads, and Streets in Florida
- Federal Highway Administration (FHWA) - Manual on Uniform Traffic Control Devices (MUTCD)

- FHWA – National Cooperative Highway Research Program (NCHRP) Report 672, Roundabouts: An Informational Guide
- FHWA Roadway Construction Noise Model (RCNM) and Guideline Handbook
- Florida Fish and Wildlife Conservation Commission - Standard Manatee Construction Conditions 2005
- Florida Statutes (F.S.)
- Florida's Level of Service Standards and Guidelines Manual for Planning
- Model Guide Specifications – Asbestos Abatement and Management in Buildings, National Institute for Building Sciences (NIBS)
- Quality Assurance Guidelines
- Safety Standards
- Any special instructions from the DEPARTMENT

- Roadway
  - FDOT – Florida Intersection Design Guide
  - FDOT - Project Traffic Forecasting Handbook
  - FDOT - Quality/Level of Service Handbook
  - Florida's Level of Service Standards and Highway Capacity Analysis for the SHS
  - Transportation Research Board (TRB) - Highway Capacity Manual
- Permits
  - Chapter 373, F.S. – Water Resources
  - US Fish and Wildlife Service Endangered Species Programs
  - Florida Fish and Wildlife Conservation Commission Protected Wildlife Permits
  - Bridge Permit Application Guide, COMDTPUB P16591.3C
  - Building Permit
  - ***US Army Corps of Engineers, 33 CFR 325.1 (d)***
- Drainage
  - FDOT Bridge Hydraulics Handbook
  - FDOT Culvert Handbook
  - FDOT Drainage Manual
  - FDOT Erosion and Sediment Control Manual
  - FDOT Exfiltration Handbook
  - FDOT Hydrology Handbook
  - FDOT Open Channel Handbook
  - FDOT Optional Pipe Materials Handbook
  - FDOT Storm Drain Handbook
  - FDOT Stormwater Management Facility Handbook
  - FDOT Temporary Drainage Handbook
  - FDOT Drainage Connection Permit Handbook
  - FDOT Bridge Scour Manual
- Survey and Mapping

- ***District 3 Surveying Guidelines***
- ***Survey Safety Handbook***
- ***Minimum Technical Standards for Surveying and Mapping Rule 5J-17***
- All applicable Florida Statutes and Administrative Codes
- Applicable Rules, Guidelines Codes and authorities of other Municipal, County, State and Federal Agencies.
- FDOT Aerial Surveying Standards for Transportation Projects Topic 550-020-002
- FDOT Right of Way Mapping Handbook
- FDOT Surveying Procedure Topic 550-030-101
- Florida Department of Transportation Right of Way Procedures Manual
- Florida Department of Transportation Surveying Handbook
- Right of Way Mapping Procedure 550-030-015
- ***All other applicable Department procedures, handbooks, and manuals***

- Traffic Engineering and Operations and ITS
  - AASHTO - An Information Guide for Highway Lighting
  - AASHTO - Guide for Development of Bicycle Facilities
  - FHWA Standard Highway Signs Manual
  - FDOT Manual on Uniform Traffic Studies (MUTS)
  - FDOT Median Handbook
  - FDOT Traffic Engineering Manual
  - Minimum Specifications for Traffic Control Signal Devices
  - National Electric Safety Code
  - National Electrical Code
- Florida's Turnpike Enterprise
  - Florida's Turnpike Plans Preparation and Practices Handbook (TPPPH)
  - Florida's Turnpike Lane Closure Policy
  - Florida's Turnpike Drainage Manual Supplement
  - Rigid Pavement Design Guide for Toll Locations with Electronic Toll Collection
  - Flexible Pavement Design Guide for Toll Locations with Electronic Toll Collection
  - Florida's Turnpike General Tolling Requirements (GTR)
  - Additional Florida's Turnpike Enterprise standards, guides, and policies for design and construction can be found on the FTE Design Website: http://design.floridasturnpike.com
- Traffic Monitoring
  - American Institute of Steel Construction (AISC) Manual of Steel Construction, referred to as "AISC Specifications"
  - American National Standards Institute (ANSI) RP-8-00 Recommended Practice for Roadway Lighting
  - AASHTO AWS D1.1/ANSI Structural Welding Code – Steel
  - AASHTO D1.5/AWS D1.5 Bridge Welding Code
  - FHWA Traffic Detector Handbook

- FDOT General Interest Roadway Data Procedure
- FHWA Traffic Monitoring Guide
- FDOT's Traffic/Polling Equipment Procedures

- Structures
  - AASHTO Load and Resistance Factor Design (LRFD) Bridge Design Specifications and Interims
  - AASHTO LRFD Movable Highway Bridge Design Specifications and Interims
  - AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, and Interims.
  - AASHTO/-AWS-D1. 5M/D1.5: An American National Standard Bridge Welding Code
  - AASHTO Guide Specifications for Structural Design of Sound Barriers
  - AASHTO Manual for Condition Evaluation and Load and Resistance Factor Rating (LRFR) of Highway Bridges
  - FDOT Bridge Load Rating Manual
  - FDOT Structures Manual
  - FDOT Structures Design Bulletins (available on FDOT Structures web site only)
- Geotechnical
  - FHWA Checklist and Guidelines for Review of Geotechnical Reports and Preliminary Specifications
  - Manual of Florida Sampling and Testing Methods
  - Soils and Foundation Handbook
- Landscape Architecture
  - Florida Department of Agriculture and Consumer Services Grades and Standards for Nursery Plants
- Architectural
  - Building Codes
  - Florida Building Code:
    - Building
    - Fuel Gas
    - Mechanical
    - Plumbing
    - Existing Building
  - Florida Accessibility Code for Building Construction
  - Rule Chapter 60D, F.A.C., Division of Building Construction
  - Chapter 553, F.S. – Building Construction Standards
  - ANSI A117.1 2003 Accessible and Usable Building and Facilities
  - Titles II and III, Americans With Disabilities Act (ADA), Public Law 101-336; and the ADA Accessibility Guidelines (ADAAG)

- Architectural – Fire Codes and Rules
  - National Fire Protection Association (NFPA) - Life Safety Code
  - NFPA 70 - National Electrical Code
  - NFPA 101 - Life Safety Code
  - NFPA 10 - Standard for Portable Fire Extinguishers
  - NFPA 11 - Standard for Low-Expansion Foam Systems
  - NFPA 11A - Standard for High- and Medium-Expansion Foam Systems
  - NFPA 12 - Standard for Carbon Dioxide Extinguishing Systems
  - NFPA 13 - Installation of Sprinkler Systems
  - NFPA 30 - Flammable and Combustible Liquids Code
  - NFPA 54 - National Gas Fuel Code
  - NFPA 58 - LP-Gas Code
  - Florida Fire Prevention Code as adopted by the State Fire Marshal – Consult with the Florida State Fire Marshal's office for other frequently used codes.
- Architectural – Extinguishing Systems
  - NFPA 10 - Fire Extinguishers
  - NFPA 13 - Sprinkler
  - NFPA 14 - Standpipe and Hose System
  - NFPA 17 - Dry Chemical
  - NFPA 20 - Centrifugal Fire Pump
  - NFPA 24 - Private Fire Service Mains
  - NFPA 200 - Standard on Clean Agent Fire Extinguishing Systems
- Architectural – Detection and Fire Alarm Systems
  - NFPA 70 - Electrical Code
  - NFPA 72 - Standard for the Installation, Maintenance and Use of Local Protective Signaling Systems
  - NFPA 72E - Automatic Fire Detectors
  - NFPA 72G - Installation, Maintenance, and Use of Notification Appliances
  - NFPA 72H -Testing Procedures for Remote Station and Proprietary Systems
  - NFPA 74 - Household Fire Warning Equipment
  - NFPA 75 - Protection of Electronic Computer Equipment
- Architectural – Mechanical Systems
  - NFPA 90A - Air Conditioning and Ventilating Systems
  - NFPA 92A - Smoke Control Systems
  - NFPA 96 - Removal of Smoke and Grease-Laden Vapors from Commercial Cooking Equipment
  - NFPA 204M - Smoke and Heating Venting
- Architectural – Miscellaneous Systems
  - NFPA 45 - Laboratories Using Chemicals
  - NFPA 80 - Fire Doors and Windows
  - NFPA 88A - Parking Structures
  - NFPA 105- Smoke and Draft-control Door Assemblies

- NFPA 110 - Emergency and Standby Power Systems
- NFPA 220 - Types of Building Construction
- NFPA 241 - Safeguard Construction, Alteration, and Operations
- Rule Chapter 69A-47, F.A.C., Uniform Fire Safety For Elevators
- Rule Chapter 69A-51, F.A.C., Boiler Safety

- Architectural – Energy Conservation
  - Rule Chapter 60D-4, F.A.C., Rules For Construction and Leasing of State Buildings To Insure Energy Conservation
  - Section 255.255, F.S., Life-Cycle Costs
- Architectural – Elevators
  - Rule Chapter 61C-5, F.A.C., Florida Elevator Safety Code
  - ASME A-17.1, Safety Code for Elevators and Escalators
  - Architectural – Floodplain Management Criteria
  - Section 255.25, F.S., Approval Required Prior to Construction or Lease of Buildings
  - Rules of the Federal Emergency Management Agency (FEMA)
- Architectural – Other
  - Rule Chapter 64E-6, F.A.C., Standards for On Site Sewage Disposal Systems (Septic Tanks)
  - Rule Chapter 62-600, F.A.C., Domestic Wastewater Facilities
  - Rule Chapter 62-761, F.A.C., Underground Storage Tank Systems
  - American Concrete Institute
  - American Institute of Architects - Architect's Handbook of Professional Practice
  - American Society for Testing and Materials - ASTM Standards
  - Brick Institute of America
  - DMS - Standards for Design of State Facilities
  - Florida Concrete Products Association
  - FDOT – ADA/Accessibility Procedure
  - FDOT – Building Code Compliance Procedure
  - FDOT – Design Build Procurement and Administration
  - LEED (Leadership in Energy and Environmental Design) Green Building Rating System
  - National Concrete Masonry Association
  - National Electrical Code
  - Portland Cement Association - Concrete Masonry Handbook
  - United State Green Building Council (USGBC)

## 2.22 Services to be Performed by the DEPARTMENT

Project Data:

***When appropriate the DEPARTMENT will provide project data currently on file, including, when available:***

- Available traffic and planning data.

- Systems traffic for Projected Design Year, with K, D, and T factors.
- Existing right of way maps.
- Existing cross slope data for all RRR projects.
- Existing pavement evaluation report for all RRR projects.
- PD&E Documents
- Design Reports
- ***Straight Line Diagram (SLD)***
- ***Existing as-built construction plans***
- ***Long Range Estimates (LRE)***

Regarding Utilities:

- All Department agreements with Utility Agency Owner (UAO).
- All approved utility relocations.
- All available information in the possession of the DEPARTMENT pertaining to utility companies whose facilities may be affected by the proposed construction.
- Project utility certification to the DEPARTMENT's Central Office.
- ***Provide Utility Coordination***

Regarding Surveying Services:

- ***Provide a number sequence for each survey field book required for the project***
- ***Provide the Primary and Secondary Horizontal and Vertical control for the project***
- ***Approve all surveyed roadway centerline alignments prior to being used by the Prime Design Consultant***
- ***Provide phase reviews of the survey data and phase reviews of the survey elements within the plans***
- ***Provide necessary Subsurface Utility Excavation (SUE) support.***

Regarding Environmental Permitting Services:

- Approved Permit Document when available
- Approval of all contacts with environmental agencies.
- General philosophies and guidelines of the DEPARTMENT to be used in the fulfillment of this contract. Objectives, constraints, budgetary limitations, and time constraints will be completely defined by the Project Manager.
- Appropriate signatures on application forms.

Regarding Pavement Design and Geotechnical Services:

- ***Provide Pavement Design(s)***

Miscellaneous Services:

- All certifications necessary for project letting.
- Access for the CONSULTANT to utilize the DEPARTMENT's Information Technology Resources.
- Building Construction Permit Coordination (Turnpike)
- All information that may come to the DEPARTMENT pertaining to future improvements.

- All future information that may come to the DEPARTMENT during the term of the CONSULTANT's Agreement, which in the opinion of the DEPARTMENT is necessary for the prosecution of the work.
- Letters of authorization designating the CONSULTANT as an agent of the DEPARTMENT in accordance with F.S. 337.274.
- Phase reviews of plans and engineering documents.
- Any necessary title searches.
- Engineering standards review services.
- All future information that may come to the DEPARTMENT pertaining to subdivision plans so that the CONSULTANT may take advantage of additional areas that can be utilized as part of the existing right of way.
- Previously constructed Highway Beautification or Landscape Construction Plans
- Landscape Opportunity Plan(s)
- ***Conduct project specific presentations given to Local Governments and MPO/TPOs as necessary and as prepared/supported by the CONSULTANT***

## 3 PROJECT COMMON AND PROJECT GENERAL TASKS

**Project Common Tasks**

Project Common Tasks, as listed below, are work efforts that are applicable to many project activities, 4 (Roadway Analysis) through 35 (Geotechnical). These tasks are to be included in the project scope in each applicable activity when the described work is to be performed by the CONSULTANT

Cost Estimates: The CONSULTANT shall be responsible for producing a construction cost estimate and reviewing and updating the cost estimate when scope changes occur and/or at milestones of the project. Prior to 60% plans and completion of quantities, the DEPARTMENT's Long Range Estimate (L.R.E.) system will be used to produce a conceptual estimate, according to District policy. Once the quantities have been developed (beginning at 60% plans and no later than 90% plans) the CONSULTANT shall be responsible for inputting the pay items and quantities into AASHTOWare Project Preconstruction through the use of the DEPARTMENT's Designer Interface for generating the summary of quantities and the FDOT's in-house estimates. A Summary of Pay Items sheet shall be prepared with all required Phase II, III, and IV Plans submittals.

***Phase I - The project shall be established in PrP by Phase I (30%). The District Preliminary Estimates Office will create the project(s) in the system upon receiving a copy of the Notice to Proceed for the design contract. The District Preliminary Estimates Office will also create a version in the L.R.E. System for the CONSULTANT's use at Phase I. The CONSULTANT can request access to the assigned L.R.E. through the DEPARTMENT's Design Project Manager. For the Phase I (30%) submittal, the CONSULTANT shall submit the cost estimate using the DEPARTMENT's Long Range Estimating (L.R.E.) system. This estimate will be reviewed by the District Preliminary Estimates Office within the L.R.E. System. The Phase I (30%) L.R.E. shall be complete***

***and ready for review at the time of the plans submittal.***

***Phase II - A Project Summary of Pay Items sheet shall be prepared with Phase II and subsequent plans submittals. The Phase II (60%) submittal shall have all pay items identified with or without quantities. If quantities have not been determined at this point, the CONSULTANT shall load a quantity of "1.0". For the Phase II (60%) submittal, the CONSULTANT shall submit the cost estimate using the DEPARTMENT's Long Range Estimating (L.R.E.) system. This estimate will be reviewed by the District Preliminary Estimates Office within the L.R.E. System. The Phase II (60%) L.R.E. shall be complete and ready for review at the time of the plans submittal.***

***Phases III & IV – At Phase III (90%) the CONSULTANT shall have all quantities loaded into PrP, with only minor changes anticipated at subsequent submittals. Within PrP, the CONSULTANT shall run a Project Edit Report for the project at Phases III and IV just prior to submitting the plans to the DEPARTMENT for review. The "Project Edit Report" lists all pay items loaded in the project (by category) and identifies obsolete pay items in PrP. The complete submittal package, including the CONSULTANT's construction cost estimate, will be provided to the District Preliminary Estimates Office at phases III (90%) and IV (100%). If the project includes a Special Detour, the CONSULTANT shall prepare and submit a Special Detour Quantity Worksheet for submittals beginning at Phase III (90%). The Special Detour Worksheet should be submitted at every subsequent phase submittal and updated if necessary. The above shall be provided for each component set of plans (i.e., Roadway, Bridge, Signing and Marking, etc.).***

Technical Special Provisions: The CONSULTANT shall provide Technical Special Provisions for all items of work not covered by the Standard Specifications for Road and Bridge Construction and the workbook of implemented modifications.

A Technical Special Provision shall not modify the Standard Specifications and implemented modifications in any way.

The Technical Special Provisions shall provide a description of work, materials, equipment and specific requirements, method of measurement and basis of payment. Proposed Technical Special Provisions will be submitted to the District Specifications Office for initial review at the time of the Phase III plans review submission to the DEPARTMENT's Project Manager. This timing will allow for adequate processing time prior to final submittal. The Technical Special Provisions will be reviewed for suitability in accordance with the Handbook for Preparation of Specification Packages. The District Specifications Office will forward the Technical Special Provisions to the District Legal Office for their review and comment. All comments will be returned to the CONSULTANT for correction and resolution. Final Technical Special Provisions shall be digitally signed and sealed in accordance with applicable Florida Statutes.

The CONSULTANT shall contact the appropriate District Specifications Office for details of the current format to be used before starting preparations of Technical Special Provisions.

Modified Special Provisions: The CONSULTANT shall provide Modified Special Provisions as required by the project. Modified Special Provisions are defined in the Specifications Handbook.

A Modified Special Provision shall not modify the first nine sections of the Standard Specifications and implemented modifications in any way. All modifications to other sections must be justified to the appropriate District and Central Specifications Offices to be included in the project's specifications package.

Field Reviews: The CONSULTANT shall make as many trips to the project site as required to obtain necessary data for all elements of the project.

Technical Meetings: The CONSULTANT shall attend all technical meetings necessary to execute the Scope of Services of this contract. This includes meetings with DEPARTMENT and/or Agency staff, between disciplines and subconsultants, such as access management meetings, pavement design meetings, local governments, railroads, airports, progress review meetings (phase review), and miscellaneous meetings. The CONSULTANT shall prepare, and submit to the DEPARTMENT's Project Manager for review, the meeting minutes for all meetings attended by them. The meeting minutes are due within five (5) working days of attending the meeting.

Quality Assurance/Quality Control ***(QA/QC)***: It is the intention of the DEPARTMENT that design CONSULTANTS, including their subconsultant(s), are held responsible for their work, including plans review. The purpose of CONSULTANT plan reviews is to ensure that CONSULTANT plans follow the plan preparation procedures outlined in the Plans Preparation Manual***/FDOT Design Manual***, that state and federal design criteria are followed with the DEPARTMENT concept, and that the CONSULTANT submittals are complete. All subconsultant document submittals shall be submitted by the subconsultant directly to the CONSULTANT for their independent Quality Assurance/Quality Control review and subsequent submittal to the DEPARTMENT.

It is the CONSULTANT'S responsibility to independently and continually QC their plans and other deliverables. The CONSULTANT should regularly communicate with the DEPARTMENT's Design Project Manager to discuss and resolve issues or solicit opinions from those within designated areas of expertise.

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of all surveys, designs, drawings, specifications and other services furnished by the CONSULTANT and their subconsultant(s) under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all maps, design drawings, specifications, and other documentation prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan shall be one specifically designed for this project. The CONSULTANT shall submit a Quality Control Plan for approval within twenty (20) business days of the written Notice to

Proceed and it shall be signed by the CONSULTANT's Project Manager and the CONSULTANT QC Manager. The Quality Control Plan shall include the names of the CONSULTANT's staff that will perform the quality control reviews. The Quality Control reviewer shall be a Florida Licensed Professional Engineer fully prequalified under F.A.C. 14-75 in the work type being reviewed. A marked up set of prints from a Quality Control Review indicating the reviewers for each component (structures, roadway, drainage, signals, geotechnical, signing and marking, lighting, landscape, surveys, etc.) and a written resolution of comments on a point-by-point basis will be required, if requested by the DEPARTMENT, with each phase submittal. The responsible Professional Engineer, Landscape Architect, or Professional Surveyor & Mapper that performed the Quality Control review will sign a statement certifying that the review was conducted and found to meet required specifications.

The CONSULTANT shall, without additional compensation, correct all errors or deficiencies in the designs, maps, drawings, specifications and/or other products and services.

Independent Peer Review: When directed by the DEPARTMENT, a subconsultant may perform Independent Peer Reviews.

***Prior to staffhour negotiations, the CONSULTANT shall coordinate with the DEPARTMENT's Design Project Manager to determine whether*** Independent Peer Reviews ***and/or*** Constructability/Bidability Review***s through this design contract will be*** required on this project. These separate reviews shall be completed by someone who has not worked on the plan component that is being reviewed. These could include, but are not limited to a separate office under the Prime's umbrella, a subconsultant that is qualified in the work group being reviewed, or a CEI. It does not include persons who have knowledge of the day to day design efforts. The Constructability/Bidability Review shall be performed by a person with experience working on Department construction projects (CEI, Contractor, etc.).

The Independent Peer Review for design Phase Plans submittals shall ensure the plans meet the FDM***, Standard Plans*** and CADD Manual. The Constructability/Bidability Review shall ensure the project can be constructed and paid for as designed. Constructability/Bidability Reviews should be conducted prior to the Phase III and Phase IV submittals, using the Phase Review Checklist (Guidance Document 1-1-A) from the Construction Project Administration Manual (CPAM) as a minimum guideline. The CONSULTANT shall submit this checklist, as well as the "marked-up" set of plans during this review, and review comments and comment responses from any previous Constructability/Bidability reviews. These items will be reviewed by District Design and District Construction.

Supervision: The CONSULTANT shall supervise all technical design activities.

Coordination: The CONSULTANT shall coordinate with all disciplines of the project to produce a final set of construction documents.

**Project General Tasks**

Project General Tasks, described in Sections 3.1 through ***3.13*** below, represent work efforts that are applicable to the project as a whole and not to any one or more specific project activity. The work described in these tasks shall be performed by the CONSULTANT when included in the project scope.

**3.1 Public Involvement**

***These projects have been determined to be a Community Awareness Plan (CAP) Level 2 project with a minimum of one (1) Public Meeting/Workshop each. This type of project has general public acceptance, moderate impacts to access and a noticeable degree of traffic disruption. Examples are urban resurfacing, residential resurfacing, enhancement projects, bridge replacements, minor roadway widening, permanent access management changes, and other construction activities that require road closures and offsite detours.***

***Prior to negotiations, the CONSULTANT shall coordinate with the DEPARTMENT's Design Project Manager and Public Information Director to discuss the specific public involvement activities anticipated for this project.***

**3.1.1 Community Awareness Plan**

***All projects require the development of a Community Awareness Plan (CAP) utilizing the District Three Community Awareness Plan Template. A copy of the Template can be obtained from the DEPARTMENT's Design Project Manager.***

Prepare a Community Awareness Plan (CAP) for review and approval by the DEPARTMENT within ***20 business*** days after receiving Notice to Proceed. The objective of the plan is to notify local governments, affected property owners, tenants, and the public of the DEPARTMENT'S proposed construction and the anticipated impact of that construction. The CAP will also document all public involvement activities conducted throughout the project's duration. In addition to the benefits of advance notification, the process should allow the DEPARTMENT to resolve controversial issues during the design phase. ***Four areas of specific concern are: (1) Influences on access to businesses and residences, (2) Drainage, (3) Temporary Traffic Control Plans during construction, and (4) right-of-way acquisition.***

**3.1.2 Notifications**

***PHASE SUBMITTAL NOTIFICATIONS:***

***The CONSULTANT shall prepare an email notification and a distribution list for plans at Phase II, Phase III, and any subsequent Phase IV re-submittal to the office(s) designated by the local government(s) and applicable regional authorities for a three-week review. The email notifications and plans will be distributed by the DEPARTMENT. The need to re-submit Phase IV Plans will depend on the duration of time spent "on the shelf" and the amount of changes that have occurred since the last submittal to the Local Governments at Phase III. See Section 2.20 regarding Phase IV re-submittals. The Phase IV re-submittal to the***

***Local Governments should take place well in advance of the Final Submittal to the District for Plans Processing to allow time to address comments received from the Local Governments.***

***Each comment or request provided by the local government shall be evaluated by the CONSULTANT and discussed with the DEPARTMENT's Design Project Manager. Responses will be prepared by the CONSULTANT for the District Consultant Project Management Engineer's signature. All comments or requests shall be responded to in writing within thirty (30) calendar days of receipt of comments.***

***PRELIMINARY FIELD INVESTIGATION NOTIFICATIONS:***

***In advance of any survey or geotechnical investigation activities outside of the FDOT R/W, the CONSULTANT shall prepare a Preliminary Field Investigation Notification to include all properties where R/W impacts are likely to occur. This notification shall be mailed by the CONSULTANT no less than 10 calendar days prior to conducting the field survey or geotechnical investigation.***

***Preliminary Field Investigation Notifications should provide:***

- ***FPID Number***
- ***State Road Number and Local Road Name***
- ***Project Limits***
- ***A Project Map***
- ***Type of Work***
- ***Reference that field surveys and/or geotechnical investigations may be conducted by CONSULTANT representatives of the DEPARTMENT***
- ***DEPARTMENT contact persons***
- ***Reference to the intent to conduct Public Meetings/Workshops in the future***

***These notifications to affected property owners/tenants shall be prepared by the CONSULTANT for the DEPARTMENT's Design Project Manager's signature. Letters for project's managed by GEC Project Managers shall be signed by the District Consultant Project Management Engineer.***

***PUBLIC MEETING/WORKSHOP INVITATIONS:***

***Public Meeting/Workshop Invitations shall be prepared by the CONSULTANT for all parties affected by the subject project.***

***Email Notifications and Mass Mail-outs shall provide:***

- ***FPID Number***
- ***State Road Number and Local Road Name***
- ***Project Limits***
- ***A Project Map***

- ***Type of Work***
- ***Construction Letting Timeframe (ie, Spring 20XX, Winter 20XX)***
- ***DEPARTMENT contact persons***
- ***Meeting/Workshop Date, Time, Location, and Format***
- ***Meeting/Workshop Location Map***

***Email Notification to Public Officials:***

- ***Notifications shall be prepared as an email by the CONSULTANT for all pertinent public officials as described in Section 3.1.3. The email notification to the public officials shall be emailed by the DEPARTMENT no less than 15 calendar days before a public meeting/workshop/hearing or following the Phase II distribution for CAP II projects without a public meeting/workshop/hearing.***

- ***In addition to the email notification, a flyer or tri-fold will be required as an attachment to relay all of the pertinent information described above.***

- ***The CONSULTANT shall submit the draft email notification along with the attachment(s) and distribution list at the designated time in the project schedule. The distribution list shall be an MS Excel file and shall include the name, title, and email address of each intended recipient.***

***Mail-out to Property Owners:***

- ***A notification/invitation letter and/or a project information flier/ tri-fold will be prepared and sent to all property owners, tenants, and business operators as defined in Section 3.1.3. This notification shall be mailed by the CONSULTANT no less than 10 calendar days before the meeting/workshop/hearing or following the Phase II distribution for CAP II projects without a public meeting/workshop/hearing.***

- ***Property owners and tenants can be contacted through mass mailings and/or hand delivered flyers. Letters shall be prepared for the District Consultant Project Management Engineer's signature and shall be on DEPARTMENT letterhead.***

- ***A notification letter will be prepared and sent to property owners, tenants, and business operators where existing, privately owned landscaping/ hardscaping/ signs/ brick pavers/ mailboxes/ etc. are expected to be impacted by construction activities. This notification shall be mailed by the CONSULTANT following the Phase II distribution.***

***Media Notification (To Be Prepared By The DEPARTMENT):***

- ***Press releases will be prepared by the District Public Information Office for publishing during the week of Public Information Meetings/Workshops/Hearings. Any press release or advertisement will indicate that the meeting/workshop/hearing is a DEPARTMENT activity***

***and will be coordinated by the CONSULTANT. Two (2) newspaper display advertisements no less than (4"X6") with graphic will be published in the local section, the first shall be 14 calendar days in advance of the meeting/workshop/hearing, and the second will be the day before the meeting/workshop/hearing date. If there is not a daily newspaper in the area, notice will run on publishing day if it falls prior to the meeting/workshop/hearing date.***

- ***In addition, notice of public meetings/workshops/hearings will be posted in the Florida Administrative Register a minimum of 14 calendar days prior.***

***All notification/invitation letters intended for physical mail-out shall be on DEPARTMENT letterhead. The CONSULTANT shall pay postage for the mail-out to property owners and will be responsible for the physical mail-out effort (printing, envelope stuffing, stamping, etc.).***

***The CONSULTANT must review all notices, letters, and attachments for accuracy and spelling and ensure that notices are sent to the person currently holding the public official positions. The CONSULTANT must attempt to affirm the validity of all email addresses submitted for each notification.***

***Examples of any of this correspondence can be made available upon request to the DEPARTMENT's Design Project Manager.***

### 3.1.3 Preparing Mailing Lists

***PHASE SUBMITTAL NOTIFICATIONS:***

***The distribution list for the phase submittal notifications described in Section 3.1.2 will be submitted to the DEPARTMENT's Design Project Manager at Phase II, Phase III, and any subsequent Phase IV re-submittal. The distribution list shall be an MS Excel file and shall include the name, title, and email address of each intended recipient.***

***Mail-out to Public Officials:***

- ***Public Officials who are to receive notification of projects shall include, (but not be limited to):***

  ***County***
  - ***County Manager***
  - ***County Public Information Director***
  - ***County Commissioners***
  - ***County Public Works Director***
  - ***County Engineer***

  ***City***
  - ***City Commission***
  - ***Mayor***

- ***City Manager***
- ***Engineer / Public Work Director***

***Regional***

- ***Regional Planning Council/ MPO/ TPO/ TPA***
- ***College Campus Facilities Department***

***PRELIMINARY FIELD INVESTIGATION NOTIFICATIONS:***

***The preliminary field investigation notifications shall be mailed by the CONSULTANT in accordance with the guidance and timeframes provided in Section 3.1.2.***

***The CONSULTANT shall prepare a mailing list to include all properties–where R/W impacts are likely to occur. The CONSULTANT shall utilize Direct Mail Services, Tax Collector Office and/or any other source to identify and obtain the addresses of property owners and business operators along the project. The CONSULTANT is expected to implement delivery receipts and/or certified mail options to ensure that property owners/tenants are notified.***

***PUBLIC MEETING/WORKSHOP INVITATIONS:***

***Public Meeting/Workshop Invitations shall be prepared by the CONSULTANT in accordance with the guidance and timeframes described in Section 3.1.2.***

***The mailing list shall be prepared by the CONSULTANT to include all affected parties. Media in the project area will also be identified and placed on the mailing list to be used for news releases, advertisements or any concerns. The mailing list will be submitted along with the notifications/invitations to the DEPARTMENT's Design Project Manager for review and approval.***

***Email Notifications/Invitations to Public Officials:***

- ***Public Officials who are to receive notification of projects and public meetings/workshops/hearings shall include, (but not be limited to):***

***Federal/State***

- ***Legislative Delegation/Congress (Federal & State)***
- ***Water Management Districts***
- ***US Post Master***
- ***Florida Highway Patrol (Major & Commander)***
  ****especially if Troop Headquarters is located in municipality***
- ***Military Installations (if within project's proximity)***

***County***

- ***County Manager***
- ***County Public Information Director***
- ***County Commissioners***

- ***County Public Works Director***
- ***County Engineer***
- ***County Emergency Management Director***
- ***Sheriff's Department***
- ***Sheriff's Department Public Information / Public Affairs***
- ***County Airport Director***
- ***County Seaport Director***
- ***County Public Transit System***
- ***County Schools Superintendent***
- ***Transportation Director***
- ***Fire & Rescue Departments***

***City***

- ***City Commission***
- ***Mayor***
- ***City Manager***
- ***Engineer / Public Work Director***
- ***City Police Chief***

***Regional***

- ***Merchants Association***
- ***Chamber of Commerce***
- ***Convention & Visitors Bureau***
- ***Tourist Development Regional Planning Council/ MPO/ TPO/ TPA***
- ***Local Americans with Disabilities Act (ADA)/ Pedestrian Advocacy Groups***
- ***Local Hospitals***
- ***Seaport Authority***
- ***Airport Authority***
- ***Local Colleges/Universities (if within project's proximity)***

***Mail-out to Property Owners:***

- ***A notification/invitation will be written and sent to all property owners, tenants, and business operators whose property, home, or business lies in whole or in part within a minimum of 300 feet of the centerline of the project. In addition, the CONSULTANT must include any businesses or neighborhoods located down side roads that may be impacted by the project. The CONSULTANT shall utilize Direct Mail Services, Tax Collector Office and/or any other source to identify and obtain the address of property owners and business operators along the project.***

- ***A notification letter will be prepared and sent to property owners, tenants, and business operators where existing, privately owned landscaping/ hardscaping/ signs/ brick pavers/ mailboxes/ etc. are expected to be***

***impacted by construction activities. This notification shall be mailed by the CONSULTANT following the Phase II distribution.***

***Mail-out to Media Outlets: To be conducted by the DEPARTMENT.***

**3.1.4 Median Modification Letters** (Not applicable to this project)

**3.1.5 Driveway Modification Letters** (Not applicable to this project)

**3.1.6 Newsletters** (Not applicable to this project)

**3.1.7 Renderings and Fly-Throughs**

The CONSULTANT shall prepare renderings and/or fly-throughs for use in public meetings***. Animations may be required by the DEPARTMENT's Public Information Office.***

**3.1.8 PowerPoint Presentations** (Not applicable to this project)

**3.1.9 Public Meeting Preparations**

***Following the Phase II plans submittal, and typically in advance of the Phase III submittal, the CONSULTANT shall assist the DEPARTMENT in scheduling the FDOT Public Information Meeting/Workshop or Hearing. Tuesday and Thursday evenings are preferred. The CONSULTANT shall be aware of and avoid other scheduled FDOT Public Meetings or Hearings. The CONSULTANT shall assist the DEPARTMENT in determining when local government meetings are scheduled (MPO/TPO, County Commission, and/or City Council Meetings) and shall avoid scheduling the FDOT meeting to conflict with the local government meetings.***

The CONSULTANT will investigate potential meeting sites to advise the DEPARTMENT on their suitability. The ***CONSULTANT*** will pay all costs for meeting site ***rentals*** and insurance. No DEPARTMENT meetings will be held on public school system properties. ***In addition, churches and religious facilities are to be considered if no other secular or municipal buildings are available. In accordance with Section 4 of Executive Order 07-126, any hotel or conference center used for hosting an FDOT Public Information Meeting/Workshop must be designated under the FDEP's Green Lodging Program. Prospective sites for the meeting shall be convenient to residents along the corridor and shall be inspected for suitability. Consideration shall be given to capacity, lighting, and other physical characteristics that may influence the selection of the site. The site shall meet ADA standards and the CONSULTANT shall provide signs to indicate the location of the available handicapped accesses.***

***Room size will be based on the number of mailouts. The proposed meeting site shall be presented to the DEPARTMENT for approval prior to the CONSULTANT negotiating use of the site.***

***In preparation for the FDOT Public Information Meeting/Workshop, the CONSULTANT shall provide:***

- ***Project Information/Fact Sheets***
- ***Script or Agenda for any planned presentation (if applicable)***
- ***All necessary graphics and displays (see requirements below)***
- ***Meeting equipment set-up and teardown***
- ***Legal and/or display advertisements***

***The CONSULTANT shall prepare all materials, displays, and/or wall graphics for use during the meeting. These include but are not limited to the following:***

- ***Self-addressed comment forms to allow attendees to provide written comments within 10 days after the FDOT Public Information Meeting/Workshop. The DEPARTMENT's Design Project Manager shall be listed as the contact for all comments.***

- ***Sign-in sheets***

- ***At least two (2) foam boards (36"X24") (or a display similar in nature) displaying a typical section. The drawing shall be in color with computer images of automobiles, bicycles, and pedestrians occupying the designated travel areas.***

- ***At least two foam boards (36"X24") (or a display similar in nature) displaying a computer enhance photograph utilizing an existing conditions photo to reflect proposed conditions. For intersection projects, 2 computer-enhanced photographs showing the existing conditions and proposed improvements will be required. "Before and After" depictions of select work elements are encouraged for 3R projects as well to help demonstrate proposed changes to the public.***

- ***Two (2) copies of the project in plan view. The project plan view shall be on (36"X24") foam boards or rollouts (or a display similar in nature). For projects of substantial length, projects can be rolled out on tables or placed on the wall. The photo or roll-outs shall be 1"=50', 1"=100" (or a legible scale) raster drawings, to scale aerial photos, or colored CADD drawings with the following information:***

    * ***existing right-of-way lines***
    * ***proposed right-of-way lines***
    * ***proposed pavement markings (pavement should be black or gray with the correct color of pavement markings (white or yellow)***
    * ***existing structures adjacent to the roadway (homes, businesses, etc.)***
    * ***proposed driveway and median openings***
    * ***proposed ponds designated as wet or dry***
    * ***designation of proposed signalized intersections.***

***Displays and other materials prepared for Public Meeting(s) shall NOT depict the CONSULTANT's logo. Displays and materials shall only depict the DEPARTMENT's logo/seal.***

***Mail-out Materials: The CONSULTANT shall be aware that along with the mail-outs described in Section 3.1.3, all the above deliverables intended for mail-out must be submitted to the DEPARTMENT's Design Project Manager well in advance of the mail-out and meeting/workshop to allow time for review, approval, and signatures if necessary.***

***Display Materials: The CONSULTANT shall be aware that all the above deliverables and materials proposed to be displayed at the Public Meeting/Workshop or Public Hearing must be presented to DEPARTMENT staff at a pre-meeting workshop for review and approval in advance of the Public Meeting/Workshop or Public Hearing.***

**3.1.10 Public Meeting Attendance and Follow-up**

***The purpose of the FDOT Public Information Meeting/Workshop is to present to the public the results of the detailed design for the project and receive comments on the proposed design.***

***The CONSULTANT shall provide all support necessary for the DEPARTMENT to hold a Public Information Meeting/Workshop. The CONSULTANT is expected to actively participate in all portions of the meeting. Conducting the meeting will take knowledgeable CONSULTANT staff and will require enough staff members to handle the crowd anticipated for the meeting.***

***The CONSULTANT shall also provide office support personnel to ensure attendees register (CONSULTANT must provide a sign-in sheet with space available for the person's name, address, and telephone number).***

***Briefing of the DEPARTMENT Design staff by the CONSULTANT (who will be on hand during the meeting) will be done twice. The first time is to be at least seven days prior to the meeting and the second time will be just before the meeting to make sure the staff is up to date on the project and understands the project well enough to discuss it with the public and to answer questions. The CONSULTANT shall assist the DEPARTMENT's Design Project Manager with ensuring that the appropriate DEPARTMENT staff are invited and included in the pre-Public Information Meeting/Workshop briefings. This will include (at a minimum) representatives from the Public Information Office and the Design Office. In addition, the DEPARTMENT's Transportation Planning Area's Urban Liaisons shall be notified of any briefings and public meetings. If the project includes a right-of-way acquisition phase, the Right-of-way Acquisition Administrator shall also be notified of the briefing.***

***FDOT Public Information Meetings/Workshops are held between the 60% - 90% plans stage. Depending on the amount of time spent "on-the-shelf", an additional meeting may be required six (6) months prior to letting, however, staffhours for this effort will be negotiated at the appropriate time.***

***The meeting format will be informal allowing the public to come and go. The meeting will be scheduled for one (1) hour in length. Although the meeting is scheduled for a one (1) hour period, the CONSULTANT staff will be available for some time before and/or after those set hours in order to maintain public contact, etc.***

***Proper signage using display boards no smaller than 2'X2' will be displayed near and on the site directing participants to the meeting place. In addition, the site must meet ADA standards and the CONSULTANT shall provide signs to indicate the location of the available handicapped accesses. A "Title VI" board will be required at the meeting site. The CONSULTANT shall coordinate with the DEPARTMENT to attain "Title VI" board requirements.***

***If issues are identified by participants at the meeting, their significance will be determined by the CONSULTANT and the DEPARTMENT; i.e., are the issues valid enough for further consideration or do they have elements which may require further consideration.***

***Addressing the issues and responding to them is also an integral part of the meeting process. This is to be accomplished by the CONSULTANT. The CONSULTANT shall prepare responses to the issues on DEPARTMENT letterhead to be signed by the District Consultant Project Management Engineer. The CONSULTANT shall pay for the postage. The DEPARTMENT shall review and approve all response letters prior to mailing. Elected Public Officials require a 48 hour response time and will require signature by the District Secretary.***

**3.1.11 Other Agency Meetings** (Not applicable to this project)

**3.1.12 Web Site** (Not applicable to this project)

**3.2 Joint Project Agreements** (Not applicable to this project)

**3.3 Specifications Package Preparation** (To be Prepared during Plans Update)

The CONSULTANT shall prepare and provide a specifications package in accordance with the DEPARTMENT'S Procedure Topic No. 630-010-005 Specifications Package Preparation and the Specifications Handbook. The CONSULTANT shall provide the DEPARTMENT names of at least two team members who have successfully completed the Specifications Package Preparation Training and will be responsible for preparing the Specifications Package for the project. The Specifications Package shall be prepared using the DEPARTMENT's Specs on the Web application. The CONSULTANT shall be able to document that the procedure defined in the Handbook for the Preparation of Specifications Packages is followed, which includes the quality assurance/quality control procedures. The specifications package shall address all items and areas of work and include any Mandatory Specifications, Modified Special Provisions, and Technical Special Provisions. ***The District Specifications Office can be contacted for more information.***

The specifications package must be submitted for review to the District Specifications Office at least 30 days prior to the contract package to Tallahassee or District due date, or sooner if required by the District Specifications Office. This submittal does not require signing and sealing and shall be coordinated through the District's Project Manager. The CONSULTANT shall coordinate with the DEPARTMENT on the submittal requirements, but at a minimum shall consist of (1) the complete specifications package, (2) a copy of the marked-up workbook used to prepare the package, and (3) a copy of the final project plans.

Final submittal of the specifications package must occur at least 10 working days prior to the contract package to Tallahassee due date. This submittal shall be digitally signed, dated, and sealed in accordance with applicable Florida Statutes.

***All current special provisions and supplemental specifications can be found on the DEPARTMENT'S Internet web site at the State Program Management Office Web Page (http://www.dot.state.fl.us/programmanagement/specs.shtm) under the Standard Specifications for Road and Bridge Construction and Implemented Modifications. The DEPARTMENT will post permits/utility schedules obtained by the DEPARTMENT to their Specifications Web site for informational purposes. The actual work effort will entail utilization of the Specs on the Web electronic files, including updates of new files that may be issued from time to time as mandatory revisions, and assembling the package in accordance with the DEPARTMENT's Specification Package Preparation Training. The DEPARTMENT may also require inclusion of special provisions necessary to convey particular DEPARTMENT needs.***

***The Standard Specifications, for Road and Bridge Construction and, Special Provisions or Supplemental Specifications from the applicable workbook of implemented modifications may not be modified unless absolutely necessary to control project-specific requirements. Provide justification of the project specific need, and coordinate with the District Specifications Office.***

***Developmental Specifications are developed around a new process, procedure, or material approved for limited use by the State Program Management Office. These specifications are signed and sealed by the professional engineer responsible for authorizing use and monitoring performance in the field. Developmental Specifications are requested from the District Specifications Office on a project by project basis.***

***Contact the District Specifications Office for formatting requirements and the availability of a Technical Special Provision for the anticipated work on the project. The DEPARTMENT has a database of previously approved Technical Special Provisions that may be used as a basis of formulation of any proposed Technical Special Provisions. Each modification must be justified to the DEPARTMENT's Specifications Office to be included in the project's Specifications Package as Technical Special Provisions. Technical Special Provisions shall be submitted in conformity with FDOT Handbook for Preparation of Specifications Packages and FDOT Procedure No. 630-010-005-f. If any portion of the project is federally funded, all Technical Special Provisions must***

***also conform to Chapter 23, Part 635 of the Code of Federal Regulations for this project.***

***Prepare a complete Specifications Package as described in Section 115.3 of the FDOT Design Manual. Submit the Specifications Package and the Workbook generated via Specs on the Web that was used to compile the Specifications Package within the electronic final plans package. Submittal requirements are further detailed in Chapter 131 of the FDOT Design Manual and Section 2.20 of this Scope of Services.***

***Any Plan Revision, Mandatory Specification Revision or any other change occurring after the "Transmit Package for Letting" Date that requires a Supplemental Specifications Package, will be the responsibility of the CONSULTANT.***

***For "goes-with" projects, the CONSULTANT for the lead project will be responsible for compiling the Specifications Package and any required Supplemental Specifications Packages. Technical Special Provisions will be the responsibility of the CONSULTANT for that project which requires the TSP.***

It is the intent of the DEPARTMENT that the Specifications Package and any Supplements be prepared by & signed and sealed by the Engineer of Record preparing the project plans, except as noted above for projects being let together. In this case, the Engineer of Record for the lead project will be required to sign and seal the Specification Package and any required Supplements.

**3.4 Contract Maintenance and Electronic Document Management System (EDMS)**

Contract maintenance includes project management effort for complete setup and maintenance of files, electronic folders and documents and developing technical monthly progress reports and schedule updates.

***The CONSULTANT will be required to provide written monthly progress reports (preferably electronic via email) documenting actions taken, actions to be taken, status of project schedule, and contacts with the DEPARTMENT (the DEPARTMENT employee contacted, the issue, and the resolution), and the status of the plans.***

***The CONSULTANT will also be required to make monthly schedule updates for tasks assigned to the CONSULTANT in FDOT Project Suite Enterprise Edition (PSEE). Schedule updates are due the last Friday of each month.***

**3.5 Value Engineering (Multi-Discipline Team) Review** (Not applicable to this project)

**3.6 Prime Consultant Project Manager Meetings**

Includes only the Prime Consultant Project Manager's time for travel and attendance at Activity Technical Meetings and other meetings listed in the meeting summary for Task 3.6 on tab 3 Project General Task of the staff hour forms. Staff hours for other

personnel attending Activity Technical Meetings are included in the meeting task for that specific Activity.

**3.7 Plans Update**

The effort needed for Plans Update services will vary from project to project, depending on size and complexity of the project, as well as the duration of time spent "on the shelf".

***Staffhours negotiated for this task during the initial staffhour and fee submittal will include efforts necessary to kick-off Plans Update Services due to an accelerated schedule. It is recommended that the CONSULTANT coordinate with the DEPARTMENT's Contract Manager to differentiate the staffhours for the Plans Update effort in the Automated Fee Proposal (AFP) from the Basic Services effort. Staffhours for the remainder of the anticipated Plans Update Services will be negotiated following Basic Services and at the time that the plans come "off the shelf".***

***The CONSULTANT shall perform engineering analyses and/or make revisions to original plans and documents, as requested by the DEPARTMENT, to reflect additions, deletions and/or modifications prior to and subsequent to letting. The CONSULTANT shall be aware that minor modifications and/or updates to the original plans are to be expected. These minor refinements shall not be a basis for any payment under the Plans Update supplemental agreement.***

**3.8 Post Design Services**

***Staffhours and fees for Post Design Services will be submitted and negotiated post-letting and in advance of the Pre-Construction Conference. All Phase 32 funds (Basic Services and Plans Update Services) shall be expended or released prior to initiating Post Design Services (Phase 62).***

***Identifying the effort needed for post design services will vary significantly from project to project depending on size and complexity of the project. The approach described herein assists the DEPARTMENT in determining an initial estimate of the work effort needed for the Engineer of Record (EOR) to support the DEPARTMENT in the construction of a project.***

***Post Design Services include Construction Assistance and Review of Shop Drawings as noted below. In addition, these services are included for the CONSULTANT to attend and provide information at the preconstruction meeting. Subsequent construction field meetings are to be attended as required. The frequency of meetings shall be based on the complexity of the project and as directed by the DEPARTMENT's Design Project Manager.***

***The EOR will be required to respond to any request from the Contractor within 24 hours. This does not mean that the issue will be resolved; it simply means that the EOR has received the request, states an immediate course of action, and begins the communication process.***

***The activities associated with Post Design Services can be characterized as the following:***

***Meetings: The EOR is expected to attend all pre-construction meetings as well as those regularly scheduled meetings throughout the construction phase when deemed necessary by the DEPARTMENT's Construction Project Manager.***

***Construction Assistance: This includes responses to Requests for Information (RFI), interpretation of construction plans and documents, and engineering solutions to changed conditions encountered in the field. Site visits shall be made by the EOR consultant when agreed upon with the DEPARTMENT's Construction Project Manager. The CONSULTANT shall provide to the DEPARTMENT qualified representation during the construction phase to address issues concerning the intent and interpretation of the construction contract plans and documents prepared in the work. From time to time during construction the CONSULTANT may be requested by the DEPARTMENT or its designated representative to review contractor proposed field changes or to respond with a recommended solution to remedy particular field situations not covered by the plans and specifications***

***Plan Revisions: This includes effort required to provide revised plan sheets reflecting any changes made during the Right-of-Way Acquisition or Construction phases of a project. During Right-of-Way or Construction phases, the Consultant may be requested by the DEPARTMENT to review proposed field changes or to respond with a recommended solution to remedy particular field situations not covered by the plans and specifications.***

***Shop Drawing Review: This includes review of shop drawings and erection plans for all components supplied by the contractor and required by the bid documents. For all independently supported sign structures of which the contractor is responsible, the consultant will review and check all the foundation, sign structure design, and shop drawings submitted by the contractor. Shop drawing reviews shall be performed by the CONSULTANT in accordance with the Standard Specifications for Road and Bridge Construction.***

***Load Ratings: Projects involving bridges typically have the load rating done during the design phase work. If the as-built bridge complies with the bid documents, the EOR should be willing to certify the load rating performed during design is adequate for the as-built condition of the bridge. However, if the as-built bridge was built in a modified or altered condition from the bid documents an updated load rating may be required. Therefore, during construction the EOR may be asked to perform an updated load rating based on the as-built condition of the bridge. As an aid in the negotiations the Structures Design Office has established guidelines for the development of staff-hours for load rating various bridge types.***

***Post design services may also include:***

- ***Reestablishment of the original survey control just prior to construction (Refer to Section 5-7.1 of the Standard Specifications for Road and Bridge Construction).***
- ***Flagging R/W for acquisition***
- ***Monumentation of the R/W after construction is complete for projects with right-of-way acquisition***
- ***Comprehensive utility coordination and conflict resolution during construction.***

***Note: All services will be agreed upon by the DEPARTMENT's Construction Project Manager and approved by the DEPARTMENT's Design Project Manager.***

***The CONSULTANT shall submit a "Post Design Services Status Report" in *.xlsx format with every invoice during this phase. A blank example of this report can be provided by the DEPARTMENT's Design Project Manager.***

Post Design Services are not intended for instances of CONSULTANT errors and/or omissions.

### 3.9 Digital Delivery

The CONSULTANT shall deliver final contract plans and documents in digital format. The final contract plans and documents shall be digitally signed and sealed files delivered to the DEPARTMENT on acceptable electronic media, as determined by the DEPARTMENT.

**3.10 Risk Assessment Workshop** (Not applicable to this project)

**3.11 Railroad, Transit and/or Airport Coordination** (Not applicable to this project)

**3.12 Landscape and Existing Vegetation Coordination** (Not applicable to this project)

**3.13 Other Project General Tasks** (Not applicable to this project)

## 4 ROADWAY ANALYSIS

The CONSULTANT shall analyze and document Roadway Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

### 4.1 Typical Section Package

The CONSULTANT shall provide an approved ***signed and sealed*** Typical Section Package ***to be submitted to the DEPARTMENT for review and concurrence*** prior to the Phase I plans submittal date. ***This package shall include the following:***

- ***Transmittal Letter, Location Map(s), Typical Section(s) (including bridge sections), Project Control Sheet(s)***

**4.2 Pavement Type Selection Report** (Not applicable to this project)

**4.3 Pavement Design Package (To Be Provided By The DEPARTMENT)**

***The Pavement Condition Survey (including coring, testing, and preparing the report) will be provided by the CONSULTANT as directed in Section 35.22 of this Scope of Services. The DEPARTMENT will be responsible for the Pavement Designs.***

**4.4 Cross-Slope Correction**

***Includes the effort necessary to review the existing cross-slopes and the need for overbuild with the District Construction Office and the District Bituminous Engineer and to prepare needed overbuild details, notes, and tables.***

***<u>As early as possible</u>, the collected survey data along this project shall be analyzed by the CONSULTANT to determine if minimum and maximum cross-slope requirements are met throughout the project limits. Once the determination is made that cross-slope correction will be implemented, the CONSULTANT must determine if any additional survey is required to provide an adequate design and accurate quantities. The CONSULTANT will coordinate with the DEPARTMENT's Design Project Manager and the District Survey Office to determine how much additional survey is required and what is the most economical method of obtaining the additional data. The CONSULTANT shall then review the cross sections with the District Construction Office and the District Bituminous Engineer to determine the method of correction (variable depth milling or overbuild) and the details/tables required. A proposed design for cross slope correction must be included in the Phase II Plans.***

**4.5 Horizontal/Vertical Master Design Files**

The CONSULTANT shall design the geometrics using the Standard Plans that are most appropriate with proper consideration given to the design traffic volumes, design speed, capacity and levels of service, functional classification, adjacent land use, design consistency and driver expectancy, aesthetics, existing vegetation to be preserved, pedestrian and bicycle concerns, ADA requirements, Safe Mobility for Life Program, access management, PD&E documents and scope of work. The CONSULTANT shall also develop utility conflict information to be provided to project Utility Coordinator in the format requested by the DEPARTMENT.

**4.6 Access Management**

The CONSULTANT shall incorporate access management standards for each project in coordination with DEPARTMENT staff. The CONSULTANT shall review adopted access management standards and the existing access conditions (interchange spacing, signalized intersection spacing, median opening spacing, and connection spacing). ***The degree of application shall be determined by the CONSULTANT in agreement with the DEPARTMENT's Design Project Manager after taking into consideration the effort of work as well as whether the project is***

***located on an FIHS (or SIS) corridor. Access management standards shall be implemented on all new construction or widening projects located on the FIHS (or SIS) corridor. Along non-FIHS corridors (or SIS), access management standards shall be applied on all multi-lane reconstruction projects or projects affecting the roadway classification. However, the degree of implementation shall be carefully considered for RRR projects. For those types of projects, access management standards should be more location/site specific. Access Management considerations should be developed after review of historic crash data for specific locations along the roadway. When access management criteria are applied, the CONSULTANT shall review adopted access management standards and the existing access conditions (interchange spacing, signalized intersection spacing, median opening spacing, and connection spacing).*** Median openings proposed to be closed, relocated, or substantially altered shall be shown on plan sheets and submitted with supporting documentation ***at the DEPARTMENT's first review (Phase I or Phase II) of the*** plans submittal.

***The CONSULTANT shall be aware that certain proposed deviations from access management and median opening spacing standards must be presented to the District Access Management Review Committee (AMRC)(see also Sections 2.1 and 3.1.4). At a minimum, access management, driveway, and median opening issues not resolved in the District's staff level process, as well as proposed full movement median openings not meeting the spacing standards in Rule Chapter 14-97, F.A.C by a threshold of 10% or more shall be taken to the AMRC for review.***

The DEPARTMENT shall provide access management classification information and information derived from PD&E studies and public hearings to be used by the CONSULTANT. ***Projects that propose modification to currently available turning movements by dividing a state highway, erecting median barriers, or having the effect of closing or modifying an existing access to an abutting property owner will necessitate a Public Hearing vs. Public Meeting/Workshop only when a Public Hearing was NOT conducted during a PD&E phase.***

Unused/nonfunctional driveways may need to be replaced with curb and gutter when future use of the driveway is not feasible. The CONSULTANT will be responsible for notifying property owners in writing prior to altering or removing driveways. The CONSULTANT shall coordinate this activity with the DEPARTMENT's Design Project Manager prior to notifying the property owners. The CONSULTANT's notification will be via a prepared letter, on FDOT letterhead, requesting permission to alter or remove any driveways as appropriate. The DEPARTMENT's Design Project Manager or District Consultant Project Management Engineer will review and approve/reject the proposed closures and will ultimately sign any closure letter(s) to be sent to property owners. Driveway widths should be evaluated to determine if improvements are warranted to provide better refuge for pedestrians on the sidewalk or to improve safety at intersections. The design should comply with Rule 14-96, Connection Permit Applications, and Rule 14-97, Access Management.

**4.7 Roundabout Evaluation** (Not applicable to this project)

**4.8 Roundabout Final Design Analysis** (Not applicable to this project)

**4.9 Cross Section Design Files**

The CONSULTANT shall establish and develop cross section design files in accordance with the CADD manual.

**4.10 Temporary Traffic Control Plan (TTCP) Analysis**

The CONSULTANT shall design a safe and effective TTCP to move vehicular and pedestrian traffic during all phases of construction. The design shall include construction phasing of roadways ingress and egress to existing property owners and businesses, routing, signing and pavement markings, and detour quantity tabulations, roadway pavement, drainage structures, ditches, front slopes, back slopes, drop offs within clear zone, and traffic monitoring sites. Special consideration shall be given to the construction of the drainage system when developing the construction phases. Positive drainage must be maintained at all times. The design shall include construction phasing of roadways to accommodate the construction or relocation of utilities when the contract includes Joint Project Agreements (JPAs).

The CONSULTANT shall investigate the need for temporary traffic signals, temporary highway lighting, detours, diversions, lane shifts, and the use of materials such as sheet piling in the analysis. ***The Temporary Traffic Control Plan shall be prepared by a certified designer who has completed training as required by the DEPARTMENT. Before proceeding with the TTCP, the CONSULTANT shall meet with the appropriate DEPARTMENT personnel. The purpose of this meeting is to provide information to the CONSULTANT that will better coordinate the Preliminary and Final TTCP efforts.***

***The CONSULTANT shall conduct a Lane Closure Analysis to determine work conditions when no lane closures will be allowed.***

***The Temporary Traffic Control Plans for FPID 437764-1 and the FPID 444099-1, Klondike intersection project shall be coordinated and designed accordingly. The TTCPs and associated mobilization and quantities shall be combined and included under the lead project.***

The CONSULTANT shall consider the local impact of any lane closures or alternate routes. When the need to close a road is identified during this analysis, the CONSULTANT shall notify the DEPARTMENT's Project Manager as soon as possible. Proposed road closings must be reviewed and approved by the DEPARTMENT. Diligence shall be used to minimize negative impacts by appropriate specifications, recommendations or plans development. Local impacts to consider will be local events, holidays, peak seasons, detour route deterioration and other eventualities. The CONSULTANT shall be responsible for obtaining local authorities permission for use of detour routes not on state highways.

**4.11 Master TTCP Design Files**

The CONSULTANT shall develop master TTCP files showing each phase of the

TTCP. This includes all work necessary for designing lane configurations, diversions, lane shifts, signing and pavement markings, temporary traffic control devices, and temporary pedestrian ways.

**4.12 Selective Clearing and Grubbing** (Not applicable to this project)

**4.13 Tree Disposition Plans** (Not applicable to this project)

**4.14 Design Variations and Exceptions**

If available, the DEPARTMENT shall furnish the Variation/Exception Report. The CONSULTANT shall prepare the documentation necessary to gain DEPARTMENT approval of all appropriate Design Variations and/or Design Exceptions before the first submittal.

**4.15 Design Report**

The CONSULTANT shall prepare all applicable report(s) as listed in the Project Description section of this scope. Reports are to be delivered as a signed and sealed pdf file.

***The CONSULTANT shall be responsible for preparing a Design Report for each phase submittal as referenced in the FDOT Design Manual (114.3.1.5 for 3R Projects). The Design Report is synonymous with the following: Design Documentation Book, Design Docs, Doc Book, and 3R/RRR Report.***

***The Design Report shall include (if applicable), but not be limited to the following (in no particular order):***

- ***Assessment of Existing Conditions***
- ***Design notes, data, and calculations compiled in an executive summary format to document and describe the design conclusions reached during the development of the contract plans. Examples of design conclusions warranting an executive summary include, but are not limited to: alignments and profile decisions, median opening spacing, temporary traffic control plans (TTCP) phasing, temporary construction easements, etc.***
- ***Straight Line Diagram***
- ***Scope of Services***
- ***Community Awareness Plan***
- ***Project Schedule***
- ***Traffic Forecasting Report***
- ***Pavement Design***
- ***Typical Section Package***
- ***Design Variations/Exceptions***
- ***Constructability Phase Review Checklist (as required by the CPAM)***
- ***Load Ratings***

- ***Supporting Crash Data***
- ***Comments & Responses***
- ***Engineer's Cost Estimate/ LRE (see Section 3.0, Project Common Tasks and Section 4.17, Cost Estimates)***
- ***Sunshine 811 Design Ticket***
- ***Utility Conflict Matrix***
- ***Lane Closure Analysis***
- ***Contract Time Estimate***
- ***Correspondence***

***The components of the Design Report will vary for each phase submittal based on the production schedule and project milestones. Draft/unsigned/unapproved components (ie., Design Variations/ Exceptions, Contract Time, Load Ratings, etc.) shall be included for informational purposes and clearly designated as DRAFT.***

***ADA Survey Report:*** ***This task shall include the effort to prepare the ADA Survey Report. This report will provide photographic and tabular documentation of the existing pedestrian features (sidewalk, curb ramps, bus stops, pedestrian signal/detectors, etc.). In addition, the CONSULTANT shall review all legs of all sideroad intersections (signalized and unsignalized) to determine if pedestrian signals and/or crosswalks are needed. The report shall identify the deficiencies and make recommendations for improvement. The CONSULTANT will be responsible for contacting the District Bike/Ped Coordinator, ADA Coordinator, Area Maintenance Office and the District Traffic Operations Office to determine if any project specific pedestrian access or safety related complaints have been received. The ADA Survey Report will be required with the PHASE I submittal.***

## 4.16 Quantities

The CONSULTANT shall develop accurate quantities and the supporting documentation, including ***proposed*** construction days ***and total contract time.***

## 4.17 Cost Estimate

***The CONSULTANT shall be responsible for producing a construction cost estimate and reviewing and updating the cost estimate when scope changes occur and/or at milestones of the project.***

***Phase I - For the Phase I (30%) submittal, the CONSULTANT shall submit the cost estimate using the DEPARTMENT's Long Range Estimating (L.R.E.) system.***

***Phase II - For the Phase II (60%) submittal, the CONSULTANT shall submit the cost estimate using the DEPARTMENT's Long Range Estimating (L.R.E.) System.***

***Phases III & IV - The complete submittal package, including the CONSULTANT's construction cost estimate, will be provided to the District***

***Preliminary Estimates Office at phases III (90%) and IV (100%). The above shall be provided for each component set of plans (i.e., Roadway, Bridge, Signing and Marking, etc.). If the project includes a Special Detour, the CONSULTANT shall prepare and submit a Special Detour Quantity Worksheet for submittal at phase III (90%).***

**4.18 Technical Special Provisions and Modified Special Provisions** (Not applicable to this project)

**4.19 Other Roadway Analyses**

***Tree Inventory Assessment: N/A***

***Right-of-Way Requirements: As early as possible, the CONSULTANT shall provide map(s) or plan sheets accompanied by a *.kmz file reflecting the requirements for additional right-of-way for FPID 437764-1. The right-of-way requirements submittal shall identify, via highlighting in varying colors (not yellow), the existing right-of-way, required right-of-way, temporary construction easements (TCEs), perpetual easements, intended license agreements (LAs), and limits of construction. In addition, this submittal will indicate in some way whether the submittal is draft or final. The requirements submittals are to be submitted electronically to the DEPARTMENT's Design Project Manager. An updated *.kmz file is expected with each resubmittal. The requirements are not considered final until indicated by the DEPARTMENT. Once the requirements are approved, the CONSULTANT shall designate each sheet as "final" and transmit to the DEPARTMENT's Design Project Manager in *.pdf format (the file name shall include the FPID number).***

**4.20 Field Reviews**

**4.21 Monitor Existing Structures** (Not applicable to this project)

**4.22 Technical Meetings**

***This task includes effort for (but is not limited to) the following meetings:***

***Production Survey Meeting: This task includes the effort for the CONSULTANT to attend a Production Survey Meeting with the DEPARTMENT's SOR for these projects.***

***Post 60% Review Workshop: These workshops are typically held with DEPARTMENT Area Operations personnel in conjunction with the Utility Design Meeting (see section 7.9). The workshops take place at a location appropriate for the project that will allow for a same-day project site visit. The workshops may consist of a Project Briefing, Project Design Review Workshop, and a Field Review; however, the format and need for the meeting will depend on the project's complexity and the CONSULTANT's familiarity with the District's policies and procedures. The workshop will be co-chaired by the CONSULTANT and the DEPARTMENT's Design Project Manager. The DEPARTMENT's Area Utility***

***Manager will chair and take minutes of the utility coordination segment of the workshop.***

***<u>TTCP Workshop</u>: N/A***

**4.23 Quality Assurance/Quality Control**

**4.24 Independent Peer Review** (Not applicable to this project)

**4.25 Supervision**

**4.26 Coordination**

## 5 ROADWAY PLANS

The CONSULTANT shall prepare Roadway, TTCP, Utility Adjustment Sheets, plan sheets, notes, and details. The plans shall include the following sheets necessary to convey the intent and scope of the project for the purposes of construction.

***On some projects, traffic monitoring sites may have to be included. The CONSULTANT shall be responsible for loading all quantities for the installation and/or removal of a traffic monitoring site(s) and showing the location of the site(s) on the Key Sheet and plan sheets (as applicable). The DEPARTMENT shall be responsible for providing the location to the CONSULTANT.***

***Contamination – All underground fuel tanks and monitoring wells within the proposed right-of-way are to be located and shown/tabulated in the plans. All piping and pumps in association with the tanks shall also be located and identified by the survey. The CONSULTANT shall relay to the DEPARTMENT any findings of contaminated soil, monitoring wells, or any features (particularly springs or sinks) relating to contamination or hazardous material.***

**5.1 Key Sheet**

**5.2 Summary of Pay Items Including Quantity Input**

***The CONSULTANT shall be responsible for inputting pay items and quantities into the DEPARTMENT's Project Preconstruction (PrP) System through the use of the DEPARTMENT's Designer Interface.***

***Phase I - The project shall be established in PrP by Phase I (30%). The District Preliminary Estimates Office will create the project(s) in the system upon receiving a copy of the Notice to Proceed for the design contract.***

***Phase II - A Summary of Pay Items sheet shall be prepared with Phase II and subsequent plans submittals. The Phase II (60%) submittal shall have all pay items identified with or without quantities. If quantities have not been determined at this point, the CONSULTANT shall load a quantity of "1.0".***

***Phases III & IV – At Phase III (90%) the CONSULTANT shall have all quantities loaded into PrP, with only minor change anticipated at subsequent submittals. Within PrP, the CONSULTANT shall run a Project Edit Report for the project at Phases III and IV just prior to submitting the plans to the DEPARTMENT for review. This program outputs invalid pay items that may be erroneously loaded for a project. The above shall be provided for each component set of plans (i.e., Roadway, Bridge, Signing and Marking, etc.).***

**5.3 Typical Section Sheets**

5.3.1 Typical Sections

5.3.2 Typical Section Details

**5.4 General Notes/Pay Item Notes**

**5.5 Summary of Quantities Sheets**

**5.6 Project Layout** (Not applicable to this project)

**5.7 Plan/Profile Sheet** (Not applicable to this project)

**5.8 Profile Sheet** (Not applicable to this project)

**5.9 Plan Sheet**

**5.10 Special Profile** (Not applicable to this project)

**5.11 Back-of-Sidewalk Profile Sheet** (Not applicable to this project)

**5.12 Interchange Layout Sheet** (Not applicable to this project)

**5.13 Ramp Terminal Details (Plan View)** (Not applicable to this project)

**5.14 Intersection Layout Details** (Not applicable to this project)

**5.15 Special Details**

**5.16 Cross-Section Pattern Sheet(s)** (Not applicable to this project)

**5.17 Roadway Soil Survey Sheet(s)**

**5.18 Cross Sections**

**5.19 Temporary Traffic Control Plan Sheets**

**5.20 Temporary Traffic Control Cross Section Sheets** (Not applicable to this project)

**5.21 Temporary Traffic Control Detail Sheets**

**5.22 Utility Adjustment Sheets**

**5.23 Selective Clearing and Grubbing Sheet(s)** (Not applicable to this project)

**5.24 Tree Disposition Plan Sheet(s)** (Not applicable to this project)

**5.25 Project Network Control Sheet(s)**

**5.26 Environmental Detail Sheets**

Preparation of detail sheets for potential environmental issues such as, underground fuel tanks and monitoring wells, septic tanks within the proposed right of way. All piping and pumps in association with the above referenced issues shall also be located and identified by the survey. The CONSULTANT shall relay to the DEPARTMENT any findings of contaminated soil, monitoring wells, or any features (particularly springs or sinks) relating to contamination or hazardous material.

Coordination with Permits/Environmental staff and preparing Dredge & Fill Detail sheets where applicable.

**5.27 Utility Verification Sheet(s) (SUE Data)**

**5.28 Quality Assurance/Quality Control**

**5.29 Supervision**

## 6a DRAINAGE ANALYSIS

The CONSULTANT shall analyze and document Drainage Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

***The CONSULTANT shall field inspect the project for the structural condition of all side drains, cross drains, and drainage under the roadway area and make recommendations concerning repairs, extensions, replacement/upgrade, or removal of such facilities. Drainage structures shall be assessed and designed to meet clear zone requirements within existing right of way or a Design Variation or Exception must be obtained. Culverts that warrant replacement shall be itemized and detailed as appropriate in the construction plans. The CONSULTANT shall contact and document discussions with the DEPARTMENT's local Maintenance Office (or the local maintaining agency for off-system projects) regarding historical drainage problems in the project areas.***

***The CONSULTANT will consider alternate culvert materials in accordance with the DEPARTMENT's Drainage Manual.***

***Prior to Phase II (60%) plans submittal, the CONSULTANT shall meet with the District Drainage Engineer. The purpose of this meeting is to provide information to the CONSULTANT that will better coordinate the Preliminary and Final Drainage Design***

***efforts.***

The CONSULTANT ***must*** coordinate fully with the appropriate permitting agencies and the DEPARTMENT's staff. All activities and submittals should be coordinated through the DEPARTMENT's Project Manager. The work will include the engineering analyses for any or all of the following:

**6a.1 Drainage Map Hydrology** (Not applicable to this project)

**6a.2 Base Clearance Calculations** (Not applicable to this project)

**6a.3 Pond Siting Analysis and Report** (Not applicable to this project)

**6a.4 Design of Cross Drains**

Analyze the hydraulic design and performance of cross drains. Check existing cross drains to determine if they are structurally sound and can be extended. Document the design as required. Determine and provide flood data as required.

**6a.5 Design of Ditches**

Design roadway conveyance and outfall ditches. This task includes capacity calculations, longitudinal grade adjustments, flow changes, additional adjustments for ditch convergences, selection of suitable channel lining, design of side drain pipes, and documentation. (Design of linear stormwater management facilities in separate task.)

**6a.6 Design of Stormwater Management Facility (Offsite or Infield Pond)** (Not applicable to this project)

**6a.7 Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds)** (Not applicable to this project)

**6a.8 Design of Floodplain Compensation** (Not applicable to this project)

**6a.9 Design of Storm Drains** (Not applicable to this project)

**6a.10 Optional Culvert Material**

Determine acceptable options for pipe materials using the Culvert Service Life Estimator.

**6a.11 French Drain Systems** (Not applicable to this project)

**6a.11a Existing French Drain Systems** (Not applicable to this project)

**6a.12 Drainage Wells** (Not applicable to this project)

**6a.13 Drainage Design Documentation Report**

Compile drainage design documentation into report format. Include documentation for all the drainage design tasks and associated meetings and decisions, except for stand-alone reports, such as the Pond Siting Analysis Report and Bridge Hydraulics Report.

**6a.14 Bridge Hydraulic Report** (Not applicable to this project)

**6a.15 Temporary Drainage Analysis** (Not applicable to this project)

**6a.16 Cost Estimate**

Prepare cost estimates for the drainage components, except bridges and earthwork for stormwater management and flood compensation sites.

**6a.17 Technical Special Provisions and Modified Special Provisions** (Not applicable to this project)

**6a.18 Hydroplaning Analysis** (Not applicable to this project)

**6a.19 Existing Permit Analysis** (Not applicable to this project)

**6a.20 Other Drainage Analysis** (Not applicable to this project)

**6a.21 Field Reviews**

**6a.22 Technical Meetings**

**6a.23 Environmental Look-Around Meetings** (Not applicable to this project)

**6a.24 Quality Assurance/Quality Control**

**6a.25 Independent Peer Review** (Not applicable to this project)

**6a.26 Supervision**

**6a.27 Coordination**

## 6b DRAINAGE PLANS

The CONSULTANT shall prepare Drainage plan sheets, notes, and details. The plans shall include the following sheets necessary to convey the intent and scope of the project for the purposes of construction.

**6b.1 Drainage Map (Including Interchanges)** (Not applicable to this project)

**6b.2 Bridge Hydraulics Recommendation Sheets** (Not applicable to this project)

**6b.3 Summary of Drainage Structures**

**6b.4 Optional Pipe/Culvert Material**

**6b.5 Drainage Structure Sheet(s) (Per Structure)**

**6b.6 Miscellaneous Drainage Detail Sheets** (Not applicable to this project)

**6b.7 Lateral Ditch Plan/Profile** (Not applicable to this project)

**6b.8 Lateral Ditch Cross Sections** (Not applicable to this project)

**6b.9 Retention/Detention Pond Detail Sheet(s)** (Not applicable to this project)

**6b.10 Retention Pond Cross Sections** (Not applicable to this project)

**6b.11 Erosion Control Plan Sheet(s)**

**6b.12 SWPPP Sheet(s)**

**6b.13 Quality Assurance/Quality Control**

**6b.14 Supervision**

## 7 UTILITIES

All Utility Coordination activities will be performed by the DEPARTMENT. The CONSULTANT will coordinate with FDOT Area Utility Manager regarding information needed.

### 7.1 Utility Kickoff Meeting

Before any contact with the UAO(s), the CONSULTANT shall meet ***or teleconference*** with the ***DEPARTMENT's Area Utility Manager*** to receive guidance, as may be required, to assure that all necessary coordination will be accomplished in accordance with DEPARTMENT procedures. CONSULTANT shall bring a copy of the design project work schedule reflecting utility activities.

### 7.2 Identify Existing Utility Agency Owner(s)

***The CONSULTANT will identify all utilities in the corridor during the survey phase by calling Sunshine 811. As-built documentation shall be requested from each UAO for verification of complete designation, and a review will be made to ensure that field designated data is included on the Phase I plans. Proper identification of design coordination contact information shall be made during this activity. A copy of the Sunshine 811 "design" ticket listing all utility owners within the project limits shall be provided within 10 business days of the Notice to Proceed (NTP) as part of all subsequent phase submittals.***

***The DEPARTMENT will assist in identifying all utilities in the corridor.***

**7.3 Make Utility Contacts** (To Be Conducted by the DEPARTMENT)

***The DEPARTMENT's Area Utility Manager will make contact and distribute plans to the applicable UAO's. A memo requesting that the UAO's verify/mark all existing facilities will be sent along with the plans.***

**7.4 Exception Processing**

***For above-ground utility installations that are to remain within the horizontal clearance area WITHOUT viable options for relocation within the R/W, the CONSULTANT will be responsible for obtaining Design Exceptions. For above-ground utility installations that are to remain within the horizontal clearance area WITH available R/W and options for relocation, the UAO will be responsible for obtaining Design Exceptions. The DEPARTMENT will coordinate all necessary Utility Exceptions.***

**7.5 Preliminary Utility Meeting**

The DEPARTMENT shall schedule (time and place), notify participants, and conduct a preliminary utility meeting with all affected UAO(s) for the purpose of presenting the project, review the current design schedule, evaluate the utility information collected, provide follow-up information on compensable interest requests, discuss the utility work by highway contractor option with each utility, and discuss any future design issues that may impact utilities. This is also an opportunity for the UAO(s) to present proposed facility ***relocations with the CONSULTANT and other UAOs***. The CONSULTANT shall keep accurate minutes and distribute a copy to all attendees.

**7.6 Individual/Field Meetings**

The CONSULTANT shall meet with each UAO as necessary, separately or together, throughout the project design duration to provide guidance in the interpretation of plans, review changes to the plans and schedules, standard or selective clearing and grubbing work, and assist in the development of the UAO(s) plans and work schedules. The CONSULTANT is responsible for motivating the UAO to complete and return the necessary documents after each Utility Contact or Meeting. ***Field reviews shall be coordinated with the DEPARTMENT's Area Utility Manager.***

**7.7 Collect and Review Plans and Data from UAO(s)**

***The CONSULTANT will be responsible for reviewing and implementing identified utility locations into the plans as well as producing a Potential Utility Conflict Matrix. The Matrix will include location (station, offset, depth) of existing facilities in relation to proposed construction features, and will be submitted with the Phase II submittal. Subsequent phase submittals will require that the Utility Conflict Matrix be updated and submitted reflecting any design changes or new information. Marked plans provided from UAOs may need to be acquired through the Department's Project Suite Enterprise Edition (PSEE) system.***

**7.8 Subordination of Easements Coordination** (To Be Conducted by the DEPARTMENT)

The CONSULTANT, if requested by the DEPARTMENT, shall transmit to and secure from the UAO the executed subordination agreements prepared by the appropriate DEPARTMENT office. The CONSULTANT shall ***obtain information as required from the UAO(s) for*** the programming of the necessary work program funds to compensate the UAO ***for reimbursable expenses***.

**7.9 Utility Design Meeting**

***The DEPARTMENT's Area Utility Manager shall coordinate with the DEPARTMENT's Design Project Manager and schedule (time and place), notify participants, and conduct a Utility Design Meeting with all affected UAO(s). This meeting may be held in conjunction with the Post 60% Workshop described in Section 4.22.*** The CONSULTANT shall schedule (time and place), notify participants, and conduct a Utility meeting with all affected UAO(s). The CONSULTANT shall be prepared to discuss impacts to existing trees/vegetation and proposed landscape, drainage, traffic signalization, temporary traffic control plan (TTCP) (construction phasing), review the current design schedule and letting date, evaluate the utility information collected, provide follow-up information on compensable property rights from FDOT Legal Office, discuss with each UAO the utility work by highway contractor option, discuss any future design issues that may impact utilities, etc., to the extent that they may have an effect on existing or proposed utility facilities with particular emphasis on drainage and TTCP with each UAO. The intent of this meeting shall be to assist the UAOs in identifying and resolving conflicts between utilities and proposed construction before completion of the plans, including utility adjustment details. Also to work with the UAOs to recommend potential resolution between known utility conflicts with proposed construction plans as may be deemed practical by the UAO. The CONSULTANT shall keep accurate minutes of all meetings and distribute a copy to all attendees within 3 days. See Task 4.5 (Horizontal/Vertical Master Design File) and Task 4.8 (Cross Section Design Files) for utility conflict location identification and adjustments.

**7.10 Review Utility Markups & Work Schedules and Processing of Schedules & Agreements**

***The CONSULTANT is to review the UAO marked up plans and the Utility Work Schedules as they are received and assure that they are compatible with the proposed design features in the plans. The CONSULTANT shall review the specific details of the markups and schedules with the Area Utility Manager as required to finalize the status of each potential conflict. Send color markups and schedules to the appropriate DEPARTMENT office(s) such as survey, geotechnical, drainage, structures, lighting, roadway, signals, utilities, landscape architecture, municipalities, maintaining agency, and District Traffic Operations for review and comment if required by the District. The CONSULTANT shall also verify that the schedules conform to the construction phasing and TTCP sequences. Coordinate with the District for execution. Distribute Executed Final***

***Documents. Prepare Work Order for UAO(s). The CONSULTANT shall coordinate with the DUO the programming of necessary Work Program funds.***

***Any design changes affecting utilities that occur after the Phase IV Resubmittal must be submitted to the DEPARTMENT's Area Utility Manager so that Utility Work Schedules can be updated.***

**7.11 Utility Coordination/Follow-up**

***Utility Coordination and Follow-up activities will be performed by the DEPARTMENT and the CONSULTANT if requested by the DEPARTMENT.***

This includes follow-up, interpreting plans, and assisting ***with coordination of*** the completion of the UAO(s) work schedule and agreements. Includes phone calls, face-to-face meetings, etc., to motivate and ensure the UAO(s) complete and return the required documents in accordance with the project schedule. Ensure the resolution of all known conflicts. This task can be applied to all phases of the project.

**7.12 Utility Constructability Review** (To Be Conducted by the DEPARTMENT)

***Utility Constructability Review activities will be performed by the DEPARTMENT.*** The CONSULTANT shall review utility schedules against construction contract time, and phasing for compatibility. Coordinate with and obtain written concurrence from the construction office. See Task 4.5 (Horizontal/Vertical Master Design File) and Task 4.9 (Cross Section Design Files) for utility conflict identification and adjustments.

**7.13 Additional Utility Services** (To be Included via Supplemental Agreement)

The CONSULTANT ***may be required to*** provide additional utility services. Additional services will be determined when the services are required and requested. This item is not usually included in the scope at the time of negotiation. It is normally added as a supplemental agreement when the need is identified.

**7.14 Processing Utility Work by Highway Contractor (UWHC)** (To Be Conducted by the DEPARTMENT)

***Processing of any Utility Work by the Highway Contractor will be performed by the DEPARTMENT.***

As directed by the DEPARTMENT, the CONSULTANT shall assist with the determination of the DEPARTMENT's cost participation, attend additional coordination meetings, prepare and process UWHC agreements, review tabulation of quantities prepared by the UAO(s), perform UWHC constructability and bidability reviews, review pay items and cost estimates, and review and incorporate Technical Special Provisions (TSPs) or Modified Special Provisions (MSP) prepared by the UAO. This item is not usually included in the scope at the time of negotiation. It is normally added as a supplemental agreement when the need is identified. Effort for the EOR is not included in this task, see Roadway Analysis Task Group 4.

### 7.15 Contract Plans to UAO(s)

***The CONSULTANT will be responsible for providing the necessary electronic files to the DEPARTMENT's Design Project Manager for submittal to the Area Utility Manager at each Phase Submittal.***

### 7.16 Certification/Close-Out (To Be Conducted by the DEPARTMENT)

***Utility Certification will be performed after all Utility Work Schedules have been executed and the coordination of construction related issues has been completed by the DEPARTMENT.***

***Utility Coordination Close-Out will include archiving all project documents and files in an orderly fashion consistent with the DEPARTMENT's EDMS archiving process.***

### 7.17 Other Utilities (Not applicable to this project)

## 8 ENVIRONMENTAL PERMITS, COMPLIANCE, AND ENVIRONMENTAL CLEARANCES

The CONSULTANT shall notify the DEPARTMENT Project Manager, Environmental Permit Coordinator and other appropriate personnel in advance of all scheduled meetings with the regulatory agencies to allow a DEPARTMENT representative to attend. The CONSULTANT shall copy in the Project Manager and the Environmental Permit Coordinator on all permit related correspondence and meetings. The Consultant shall use current regulatory guidelines and policies for all permits required as identified in Section 2.4.

### 8.1 Preliminary Project Research

The CONSULTANT shall perform preliminary project research and shall be responsible for regulatory agency coordination to assure that design efforts are properly directed toward permit requirements. The research shall include but should not be limited to a review of the project's PD&E documents including the Environmental Document, Natural Resources Evaluation, and Cultural Resources Assessment Survey.

The CONSULTANT shall research any existing easements or other restrictions that may exist both within or adjacent to the proposed project boundary. Project research may include but should not be limited to review of available: federal, state, and local permit files and databases; and local government information including county and property appraiser data. The CONSULTANT shall determine if any Sovereign Submerged Lands easements need to be modified or acquired. Any applicable information will be shown on the plans as appropriate.

### 8.2 Field Work

**8.2.1 Pond Site Alternatives**: (Not applicable to this project)

**8.2.2 Establish Wetland Jurisdictional Lines and Assessments:**

The CONSULTANT shall be responsible for, but not limited to, the following activities:

- Determine landward extent of wetlands and other surface waters as defined in Rule Chapter 62-340, F.A.C., as ratified in Section 373.4211, F.S.
- Collect all data and information necessary to determine the jurisdictional boundaries of wetlands and other surface waters as defined by the rules or regulations of each permitting agency processing a DEPARTMENT permit application for the project.
- Set seasonal high water levels
- Obtain a jurisdictional determination as defined by the rules or regulations of each permitting agency processing a DEPARTMENT permit application for the project.
- Prepare aerial maps showing the jurisdictional boundaries of wetlands and other surface waters. Aerial maps shall be reproducible, of a scale of 1″=400' or more detailed and be recent photography. The maps shall show the jurisdictional boundaries of each agency. Photo copies of aerials are not acceptable. When necessary, a wetland specific survey will be prepared by a registered surveyor and mapper. All surveyed jurisdictional boundaries are to be tied to the project's baseline of survey.
- Prepare a written assessment of the current condition and functional value of the wetlands and other surface waters. Prepare data in tabular form which includes the ID number for each wetland (and other surface water, if necessary) impacted, size of wetland to be impacted, type of impact, and identify any wetland (by ID number and size) within the project limits that will not be impacted by the project.
- Prepare appropriate agency forms to obtain required permits. Forms may include but are not limited to the United States Army Corps of Engineers (USACE) "Wetland Determination Data Form – Atlantic and Gulf Coastal Plain Region"; the USACE "Approved Jurisdictional Determination Form"; Uniform Mitigation Assessment Method forms and/or project specific data forms.

**8.2.3 Species Surveys**: (Not applicable to this project)

**8.3 Agency Verification of Wetland Data** (Not applicable to this project)

**8.4 Complete and Submit All Required Permit Applications**

The CONSULTANT shall collect all of the data and information necessary to prepare the permit applications and obtain the environmental permits required to construct the project as identified in the Project Description and as described in 8.4.1, 8.4.2, and 8.12 (Other Permits). The CONSULTANT shall prepare each permit application in accordance with the rules and/or regulations of the regulatory

agency responsible for issuing a specific permit and/or authorization to perform work. The permit application packages must be approved by the DEPARTMENT prior to submittal to regulatory agencies.

***A Pre-Application meeting with the permitting agencies can be anticipated for projects that require an Individual ERP from the State of Florida or an Individual Permit from the Army Corps of Engineers. As a project develops, other project specific conditions may be identified that will warrant a Pre-Application meeting to clarify the permitting requirements. The DEPARTMENT's Design Project Manager, District Drainage Engineer, and District Permit Coordinator will be invited to the Pre-Application meeting (when required), and will be forwarded all correspondence and meeting minutes.***

The CONSULTANT will submit all permit applications, as directed by the DEPARTMENT, and be responsible for payment of all permit fees. ***The CONSULTANT will file any public notices required by the permits, in a publication selected by the DEPARTMENT, and will be responsible for payment of all fees associated with the filing the public notice.***

**8.4.1 Complete and Submit all Required Wetland Permit Applications:**

The CONSULTANT shall prepare, complete, and submit required wetland permit (i.e. ERP, Section 404) application packages to the appropriate regulatory agencies. This includes, but is not limited to, applications submitted to WMDs and/or DEP, and USACE. The application package may include but is not limited to attachments (i.e. project location map, aerials, affidavit of ownership, pictures, additional technical analysis, etc.), a cover letter with project description as well as completion of applicable agency forms. ***The Engineer of Record (EOR) shall prepare a narrative, in layman terms, for the inclusion in the permit application package. It shall include work being performed in this project, impacts to the environment and methods of construction specifically related to the environmentally sensitive areas. This brief description will aid the regulatory agency reviewer in understanding the scope of the project.*** The CONSULTANT shall prepare and respond to agency Requests for Additional Information (RAIs), including necessary revisions to the application package. All responses and completed application packages must be approved by the District Permit Coordinator prior to submittal to the regulatory agencies. Geotechnical permitting should also be prepared, submitted, and obtained.

For projects that do not have a wetland assessment (Unified Mitigation Assessment Method, or UMAM), and the permit requires this information to be issued, the CONSULTANT will prepare a UMAM to be submitted with the permit application.

**8.4.2 Complete and Submit all Species Permit Applications:**

The CONSULTANT shall prepare, complete and submit required species permit applications to the appropriate agencies. This includes federal and state protected species permit application packages as required. The work includes completion of application package (i.e. project location map, aerials, affidavit of ownership, pictures, additional technical analysis, etc.), and cover letter with project description as well as completion of applicable forms. ***The Engineer of Record (EOR) shall***

***prepare a narrative, in layman terms, for the inclusion in the permit application package. It shall include work being performed in this project, impacts to the environment and methods of construction specifically related to the environmentally sensitive species. This brief description will aid the regulatory agency reviewer in understanding the scope of the project.*** The CONSULTANT shall respond to agency RAIs, including necessary revisions to the application package. All responses and completed applications must be approved by the District Permit Coordinator prior to submittal to the regulatory agency.

**8.5 Coordinate and Review Dredge and Fill Sketches** (Not applicable to this project)

**8.6 Prepare USCG Permit Sketches** (Not applicable to this project)

**8.7 Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application** (Not applicable to this project)

**8.8 Prepare Coastal Construction Control Line (CCCL) Permit Application** (Not applicable to this project)

**8.9 Prepare Tree Permit Information** (Not applicable to this project)

**8.10 Compensatory Mitigation Design** (Not applicable to this project)

**8.11 Mitigation Coordination and Meetings** (Not applicable to this project)

**8.12 Other Environmental Permits** (Not applicable to this project)

**ENVIRONMENTAL CLEARANCES, RE-EVALUATIONS, AND TECHNICAL SUPPORT**

**8.13 Technical Support to the DEPARMENT for Environmental Clearances and Re-evaluations (use when CONSULTANT provides technical support only)**

***The CONSULTANT shall provide engineering and environmental support for the DEPARTMENT to obtain environmental clearances resulting from any changes to the project after the initial environmental phase has been completed.***

**8.13.1 NEPA or SEIR Re-evaluation**: (Not applicable to this project)

**8.13.2 Archaeological and Historical Features:** (Not applicable to this project)

**8.13.3 Wetland Impact Analysis**: The CONSULTANT shall provide necessary technical information to the District's Project Manager to analyze the impacts to wetlands and other surface waters in accordance with Part 2, Chapter 9 of the PD&E Manual due to changes in the project.

**8.13.4 Essential Fish Habitat Impact Analysis:** (Not applicable to this project)

**8.13.5 Protected Species and Habitat Impact Analysis:** (Not applicable to this project)

**8.14 Preparation of Environmental Clearances and Reevaluations (TO BE PROVIDED BY THE DEPARTMENT)**

**8.15 Contamination Impact Analysis** (Not applicable to this project)

**8.16 Asbestos Survey** (Not applicable to this project)

**8.17 Technical Meetings** (Not applicable to this project)

**8.18 Quality Assurance/Quality Control**

**8.19 Supervision**

**8.20 Coordination**

## 9 STRUCTURES - SUMMARY AND MISCELLANEOUS TASKS AND DRAWINGS

The CONSULTANT shall analyze, design, and develop contract documents for all structures in accordance with applicable provisions as defined in Section 2.20, Provisions for Work. Individual tasks identified in Sections 9 through 18 are defined in the Staff Hour Estimation Handbook and within the provision defined in Section 2.20, Provisions for Work. Contract documents shall display economical solutions for the given conditions.

The CONSULTANT shall provide Design Documentation to the DEPARTMENT with each submittal consisting of structural design calculations and other supporting documentation developed during the development of the plans. The design calculations submitted shall adequately address the complete design of all structural elements. These calculations shall be neatly and logically presented on digital media or, at the DEPARTMENT's request, on 8 ½"x11" paper and all sheets shall be numbered. The final design calculations shall be signed and sealed by a Florida-licensed professional engineer. A cover sheet indexing the contents of the calculations shall be included and the engineer shall sign and seal that sheet. All computer programs and parameters used in the design calculations shall include sufficient backup information to facilitate the review task.

**9.1 Key Sheet and Index of Drawings**

**9.2 Project Layout** (Not applicable to this project)

**9.3 General Notes and Bid Item Notes**

***The CONSULTANT shall provide adequate plan details to accommodate the joint replacements and the mast arm construction described in Section 2.5.***

**9.4 Miscellaneous Common Details**

***The CONSULTANT shall provide adequate plan details to accommodate the joint replacements and the mast arm construction described in Section 2.5.***

**9.5 Incorporate Report of Core Borings** (Not applicable to this project)

**9.6 Design Standards - Bridges** (Not applicable to this project)

**9.7 Existing Bridge Plans** (Not applicable to this project)

**9.8 Assemble Plan Summary Boxes and Quantities**

**9.9 Cost Estimate**

**9.10 Technical Special Provisions** (Not applicable to this project)

**9.11 Field Reviews** (Not applicable to this project)

**9.12 Technical Meetings** (Not applicable to this project)

**9.13 Quality Assurance/Quality Control**

**9.14 Independent Peer Review** (Not applicable to this project)

**9.15 Supervision**

**9.16 Coordination**

## 10 STRUCTURES - BRIDGE DEVELOPMENT REPORT and tasks 10.1 – 10.35 are not applicable to this project.

## 11 STRUCTURES - TEMPORARY BRIDGE and tasks 11.1 – 11.8 are not applicable to this project.

## 12 STRUCTURES - SHORT SPAN CONCRETE BRIDGE

The CONSULTANT shall prepare plans for Short Span Concrete Bridge(s) at the location(s) specified in Section 2.5.

**General Layout Design and Plans** and tasks 12.1 – 12.6 are not applicable to this project.

**End Bent Design and Plans** and tasks 12.7 – 12.10 are not applicable to this project.

**Intermediate Bent Design and Plans** and tasks 12.11 – 12.15 are not applicable to this project.

**Miscellaneous Substructure Design and Plans** and task 12.16 are not applicable to this project.

**Superstructure Design and Plans** and tasks 12.17 – 12.18 are not applicable to this project.

**Cast-In-Place Slab Bridges** and tasks 12.19 – 12.21 are not applicable to this project.

**Prestressed Slab Unit Bridges** and tasks 12.22 – 12.26 are not applicable to this project.

**Reinforcing Bar Lists** and task 12.27 are not applicable to this project.

**Load Rating**

**12.28 Load Rating**

***A load rating analysis will be required if the pavement design results in a change in the dead load on Eight Mile Creek Bridge (BR#480003).***

***Assuming that the proposed pavement design will increase the profile grade, the intent for this project will be to feather/taper the pavement to the bridge deck to prevent an increase in the dead load. If this isn't possible, then staffhours will be negotiated at a later date for a Supplemental Agreement to perform Load Ratings.***

**13 STRUCTURES - MEDIUM SPAN CONCRETE BRIDGE and tasks 13.1 – 13. 55 are not applicable to this project.**

**14 STRUCTURES - STRUCTURAL STEEL BRIDGE and tasks 14.1 – 14.62 are not applicable to this project.**

**15 STRUCTURES - SEGMENTAL CONCRETE BRIDGE and tasks 15.1 – 15.77 are not applicable to this project.**

**16 STRUCTURES - MOVABLE SPAN and tasks 16.1 – 16.102 are not applicable to this project.**

**17 STRUCTURES - RETAINING WALL and tasks 17.1 – 17.21 are not applicable to this project.**

**18 STRUCTURES – MISCELLANEOUS**

The CONSULTANT shall prepare plans for Miscellaneous Structure(s) as specified in Section 2.5.

**Concrete Box Culverts**

**18.1 Concrete Box Culverts**

**18.2 Concrete Box Culverts Extensions**

**18.3 Concrete Box Culvert Data Table Plan Sheets**

**18.4 Concrete Box Culvert Special Details Plan Sheets**

**Strain Poles and tasks 18.5 – 18.8 are not applicable to this project.**

**Mast Arms**

**18.9 Mast Arms**

**18.10 Mast Arms Data Table Plan Sheets**

**18.11 Mast Arms Special Details Plan Sheets**

**Overhead/Cantilever Sign Structure and tasks 18.12 – 18.18 are not applicable to this project.**

**High Mast Lighting and tasks 18.19 – 18.20 are not applicable to this project.**

**Noise Barrier Walls (Ground Mount) and tasks 18.21 – 18.27 are not applicable to this project.**

**Special Structures and tasks 18.28-18.35 are not applicable to this project.**

## 19 SIGNING AND PAVEMENT MARKING ANALYSIS

The CONSULTANT shall analyze and document Signing and Pavement Markings Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

**19.1 Traffic Data Analysis**

***The CONSULTANT shall evaluate the existing signage to determine the need for additional signs, correcting redundant or conflicting signage, and the replacement of damaged signs. It is NOT the DEPARTMENT's intent to replace signs based solely on age or installation date. Existing signage problems/issues that are discovered during the design phase should be communicated to the maintaining agency to be addressed as appropriate.***

***The CONSULTANT shall prepare a detailed summary of additional or modified traffic regulations affected by this project. The summary shall include affected regulatory signs (No U, No Left, No Parking etc.), signals (including school zones, pedestrian devices, intersection control beacons, post-mounted warning devices) or pavement markings. This information is to be forwarded to the District Traffic Operations Engineer for use in fulfilling Florida Statute 335.10(1). The CONSULTANT may refer to Traffic Engineering Topic Number 750-010-011: Traffic Regulation Approval Process, and the Roadway Characteristic Inventory (RCI) database for additional information.***

**19.2 No Passing Zone Study**

The CONSULTANT shall perform all effort required for field data collection, and investigation in accordance with the DEPARTMENT's Manual on Uniform Traffic Studies for both projects.

The CONSULTANT shall submit the signed and sealed report to the DEPARTMENT for review and approval.

**19.3 Reference and Master Design File**

The CONSULTANT shall prepare the Signing & Marking Design file to include all necessary design elements and all associated reference files.

**19.4 Multi-Post Sign Support Calculations**

The CONSULTANT shall determine the appropriate column size from the DEPARTMENT's Multi-Post Sign Program(s).

**19.5 Sign Panel Design Analysis**

Establish sign layout, letter size and series for non-standard signs.

**19.6 Sign Lighting/Electrical Calculations** (Not applicable to this project)

**19.7 Quantities**

**19.8 Cost Estimate** (Not applicable to this project)

**19.9 Technical Special Provisions and Modified Special Provisions** (Not applicable to this project)

**19.10 Other Signing and Pavement Marking Analysis**

***Audible and Vibratory Markings Recommendation: Provide the DEPARTMENT's Design Project Manager with an explanation of crash history, treatment recommendations, and a *.kmz graphically representing proposed audible and vibratory treatment to pursue approval from the District Design Office.***

**19.11 Field Reviews**

**19.12 Technical Meetings** (Not applicable to this project)

**19.13 Quality Assurance/Quality Control**

**19.14 Independent Peer Review** (Not applicable to this project)

**19.15 Supervision**

**19.16 Coordination**

## 20 SIGNING AND PAVEMENT MARKING PLANS

The CONSULTANT shall prepare a set of Signing and Pavement Marking Plans in accordance with the Plans Preparation Manual that includes the following. ***The plans shall include only those sheets, of the following list of sheets, necessary to convey the intent and scope of the project for construction.***

**20.1 Key Sheet**

**20.2 Summary of Pay Items Including Designer Interface Quantity Input** (Not applicable to this project)

**20.3 Tabulation of Quantities**

**20.4 General Notes/Pay Item Notes**

**20.5 Project Layout** (Not applicable to this project)

**20.6 Plan Sheet**

**20.7 Typical Details** (Not applicable to this project)

**20.8 Guide Sign Work Sheet(s)**

**20.9 Traffic Monitoring Site** (Not applicable to this project)

**20.10 Cross Sections** (Not applicable to this project)

**20.11 Special Service Point Details** (Not applicable to this project)

**20.12 Special Details** (Not applicable to this project)

**20.13 Interim Standards** (Not applicable to this project)

**20.14 Quality Assurance/Quality Control**

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of traffic design drawings, specifications and other services furnished by the CONSULTANT under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all design drawings, specifications and other services prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan may be one utilized by the CONSULTANT as part of their normal operation or it may be one specifically designed for this project.

**20.15 Supervision**

## 21 SIGNALIZATION ANALYSIS

The CONSULTANT shall analyze and document Signalization Analysis Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

### 21.1 Traffic Data Collection

The CONSULTANT shall perform all effort required ***as applicable*** for traffic data collection ***for the purposes of providing signal design related services as described in this scope of services. This effort may*** include collecting crash reports, 24 hr. machine counts, 8 hr. turning movement counts, 7 day machine counts, and speed & delay studies.

### 21.2 Traffic Data Analysis

***As applicable for the purposes of providing signal design related services as described in this scope of services,*** the CONSULTANT shall determine signal operation plan, intersection geometry, local signal timings, pre-emption phasing & timings, forecasting traffic, and intersection analysis run.

### 21.3 Signal Warrant Study (Not applicable to this project)

### 21.4 Systems Timings

The CONSULTANT shall determine proper coordination timing plans including splits, force offs, offsets, and preparation of Time Space Diagram.

### 21.5 Reference and Master Signalization Design File

The CONSULTANT shall prepare the Signalization Design file to include all necessary design elements and all associated reference files.

### 21.6 Reference and Master Interconnect Communication Design File

The CONSULTANT shall prepare the Interconnect Communication Design file to include all necessary design elements and all associated reference files.

### 21.7 Overhead Street Name Sign Design

The CONSULTANT shall design Signal Mounted Overhead Street Name signs.

### 21.8 Pole Elevation Analysis

### 21.9 Traffic Signal Operation Report

### 21.10 Quantities

**21.11 Cost Estimate** (Not applicable to this project)

**21.12 Technical Special Provisions and Modified Special Provisions**

**21.13 Other Signalization Analysis** (Not applicable to this project)

**21.14 Field Reviews**

The CONSULTANT shall collect information from the maintaining agencies and conduct a field review. The review should include, but is not limited to, the following:

- Existing Signal and Pedestrian Phasing
- Controller Make, Model, Capabilities and Condition/Age
- Condition of Signal Structure(s)
- Type of Detection as Compared With Current District Standards
- Interconnect Media
- Controller Timing Data

**21.15 Technical Meetings**

**21.16 Quality Assurance/Quality Control**

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of traffic design drawings, specifications and other services furnished by the CONSULTANT under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all design drawings, specifications and other services prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan may be one utilized by the CONSULTANT as part of their normal operation or it may be one specifically designed for this project.

**21.17 Independent Peer Review** (Not applicable to this project)

**21.18 Supervision**

**21.19 Coordination**

## 22 SIGNALIZATION PLANS

The CONSULTANT shall prepare a set of Signalization Plans in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums, which includes the following:

**22.1 Key Sheet**

**22.2 Summary of Pay Items Including Designer Interface Quantity Input** (Not applicable to this project)

**22.3 Tabulation of Quantities**

**22.4 General Notes/Pay Item Notes**

**22.5 Plan Sheet**

**22.6 Interconnect Plans** (Not applicable to this project)

**22.7 Traffic Monitoring Site** (Not applicable to this project)

**22.8 Guide Sign Worksheet**

**22.9 Special Details**

**22.10 Special Service Point Details** (Not applicable to this project)

**22.11 Mast Arm/Monotube Tabulation Sheet**

**22.12 Strain Pole Schedule** (Not applicable to this project)

**22.13 TTCP Signal (Temporary)** (Not applicable to this project)

**22.14 Temporary Detection Sheet** (Not applicable to this project)

**22.15 Utility Conflict Sheet** (Not applicable to this project)

**22.16 Interim Standards** (Not applicable to this project)

**22.17 Quality Assurance/Quality Control**

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of traffic design drawings, specifications and other services furnished by the CONSULTANT under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all design drawings, specifications and other services prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan may be one utilized by the CONSULTANT as part of their normal operation or it may be one specifically designed for this project.

**22.18 Supervision**

## 23 LIGHTING ANALYSIS

The CONSULTANT shall analyze and document Lighting Tasks in accordance with all applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

### 23.1 Lighting Justification Report (Not applicable to this project)

### 23.2 Lighting Design Analysis Report

The CONSULTANT shall prepare a Preliminary Lighting Design Analysis Report. The report shall be submitted under a separate cover with the Phase II plans submittal. The report shall provide analyses for each signalized intersection lighting design and each typical section of the mainline, typical section for the ramps (one and/or two lanes), interchanges, underdeck lighting, and arterial roads. Each lighting calculation shall be properly identified as to the area that it covers.

The report shall include the Lighting Design Criteria that will be used. For projects with corridor lighting, the report shall include the evaluation of at least three lighting design alternatives. The report shall provide a recommendation on the alternative to use. Each alternative shall be properly described; the alternatives shall consider different pole heights, lamp wattage, and arm lengths. Each alternative shall be provided with a cost estimate that includes initial cost in addition to operations and maintenance cost for one year.

The report shall also include the lighting calculations for each lighted sign.

After approval of the preliminary report, the CONSULTANT shall submit a revised report for each submittal. The Lighting Design Analysis Report shall include:

Voltage drop calculations

Load analysis calculations for each branch circuit

### 23.3 Aeronautical Evaluation (Not applicable to this project)

### 23.4 Voltage Drop Calculations

The CONSULTANT shall submit voltage drop calculations showing the equation or equations used along with the number of luminaries per circuit, the length of each circuit, the size conductor or conductors used and their ohm resistance values. The voltage drop incurred on each circuit (total volts and percentage of drop) shall be calculated, and all work necessary to calculate the voltage drop values for each circuit should be presented in such a manner as to be duplicated by the District.

The Voltage Drop Calculations shall be submitted as part of the Lighting Design Analysis Report.

### 23.5 FDEP Coordination and Report (Not applicable to this project)

**23.6 Reference and Master Design Files**

The CONSULTANT shall prepare the Lighting Design file to include all necessary design elements and all associated reference files.

**23.7 Temporary Lighting** (Not applicable to this project)

**23.8 Design Documentation**

The CONSULTANT shall submit a Design Documentation with each plans submittal under a separate cover and not part of the roadway documentation book. At a minimum, the design documentation shall include:

- Phase submittal checklist.
- Structural calculations for special conventional pole concrete foundations.
- Correspondence with the power company concerning new electrical service.

**23.9 Quantities**

**23.10 Cost Estimate** (Not applicable to this project)

**23.11 Technical Special Provisions and Modified Special Provisions**

**23.12 Other Lighting Analysis** (Not applicable to this project)

**23.13 Field Reviews**

The CONSULTANT shall collect information from the maintaining agencies and conduct a field review. The review should include but is not limited to the following:

- Existing Lighting Equipment
- Load Center, Capabilities and Condition/Age
- Condition of Lighting Structure(s)
- Verification of horizontal clearances
- Verification of breakaway requirements

**23.14 Technical Meetings**

**23.15 Quality Assurance/Quality Control**

**23.16 Independent Peer Review** (Not applicable to this project)

**23.17 Supervision**

**23.18 Coordination**

## 24 LIGHTING PLANS

The CONSULTANT shall prepare a set of Lighting Plans in accordance with all applicable

manuals, guidelines, standards, handbooks, procedures, and current design memorandums.

**24.1 Key Sheet**

**24.2 Summary of Pay Items Including Designer Interface Quantity Input** (Not applicable to this project)

**24.3 Tabulation of Quantities**

**24.4 General Notes/Pay Item Notes**

**24.5 Pole Data, Legend & Criteria**

**24.6 Service Point Details**

**24.7 Project Layout** (Not applicable to this project)

**24.8 Plan Sheet**

**24.9 Special Details**

**24.10 Temporary Lighting Data and Details** (Not applicable to this project)

**24.11 Traffic Control Plan Sheets** (Not applicable to this project)

**24.12 Interim Standards** (Not applicable to this project)

**24.13 Quality Assurance/Quality Control**

The CONSULTANT shall be responsible for the professional quality, technical accuracy and coordination of traffic design drawings, specifications and other services furnished by the CONSULTANT under this contract.

The CONSULTANT shall provide a Quality Control Plan that describes the procedures to be utilized to verify, independently check, and review all design drawings, specifications and other services prepared as a part of the contract. The CONSULTANT shall describe how the checking and review processes are to be documented to verify that the required procedures were followed. The Quality Control Plan may be one utilized by the CONSULTANT as part of their normal operation or it may be one specifically designed for this project.

**24.14 Supervision**

**25 LANDSCAPE ARCHITECTURE ANALYSIS and tasks 25.1 – 25.17 are not applicable to this project.**

**26 LANDSCAPE ARCHITECTURE PLANS and tasks 26.1 – 26.16 are not applicable to this project.**

**27 SURVEY and tasks 27.1 – 27.25 (To Be Provided By The DEPARTMENT).**

**28 PHOTOGRAMMETRY and tasks 28.1 – 28.25 are not applicable to this project.**

**29 MAPPING and tasks 29.1 – 29.36 (To Be Provided By The DEPARTMENT).**

**30 TERRESTRIAL MOBILE LiDAR and tasks 30.1 – 30.19 are not applicable to this project.**

**31 ARCHITECTURE DEVELOPMENT and tasks 31.1 – 31.143 are not applicable to this project.**

**32 NOISE BARRIERS IMPACT DESIGN ASSESSMENT IN THE DESIGN PHASE and tasks 32.1 – 32.9 are not applicable to this project.**

**33 INTELLIGENT TRANSPORTATION SYSTEMS ANALYSIS and tasks 33.1 – 33.21 are not applicable to this project.**

**34 INTELLIGENT TRANSPORTATION SYSTEM PLANS and tasks 34.1 – 34.21 are not applicable to this project.**

**35 GEOTECHNICAL**

The CONSULTANT shall, for each project, be responsible for a complete geotechnical investigation. All work performed by the CONSULTANT shall be in accordance with DEPARTMENT standards, or as otherwise directed by the District Geotechnical Engineer. The District Geotechnical Engineer will make interpretations and changes regarding geotechnical standards, policies and procedures and provide guidance to the CONSULTANT.

Before beginning each phase of investigation and after the Notice to Proceed is given, the CONSULTANT shall submit an investigation plan for approval and meet with the DEPARTMENT's Geotechnical Engineer or representative to review the project scope and DEPARTMENT requirements. The investigation plan shall include, but not be limited to, the proposed boring locations and depths, and all existing geotechnical information from available sources to generally describe the surface and subsurface conditions of the project site. ***Upon approval of the investigation plan by the DEPARTMENT, the CONSULTANT shall submit an updated schedule prior to initiating the investigation plan.*** Additional meetings may be required to plan any additional field efforts, review plans, resolve plans/report comments, resolve responses to comments, and/or any other meetings necessary to facilitate the project.

The CONSULTANT shall notify the DEPARTMENT in adequate time to schedule a representative to attend all related meetings and field activities.

***The CONSULTANT shall be responsible for coordination of all geotechnical related fieldwork activities. The CONSULTANT shall retain all samples until acceptance of final plans. Rock cores shall be retained as directed in writing by the District Geotechnical Engineer.***

***CONSULTANT shall perform specialized field-testing as required by project needs.***

***All testing and classification will be performed in accordance with applicable DEPARTMENT standards, ASTM Standards or AASHTO Standards, unless otherwise specified in the Contract Documents***.

***All Standard Penetration Testing will be performed using an automatic hammer***.

**35.1 Document Collection and Review**

CONSULTANT will review printed literature including topographic maps, county agricultural maps, aerial photography (including historic photos), ground water resources, geology bulletins, potentiometric maps, pile driving records, historic construction records and other geotechnical related resources. Prior to field reconnaissance, CONSULTANT shall review U.S.G.S., S.C.S. and potentiometric maps, and identify areas with problematic soil and groundwater conditions.

Roadway

The CONSULTANT shall be responsible for coordination of all geotechnical related field work activities. The CONSULTANT shall retain all samples until acceptance of Phase IV plans. Rock cores shall be retained as directed in writing by the District Geotechnical Engineer.

Obtain pavement cores as directed in writing by the District Geotechnical Engineer.

If required by the District Geotechnical Engineer, a preliminary roadway exploration shall be performed before the Phase I plans submittal ***and shall include a preliminary economic analysis, a plan for geotechnical investigation, and all field reconnaissance results.*** The preliminary roadway exploration will be performed and results provided to the Engineer of Record to assist in setting roadway grades and locating potential problem areas. The preliminary roadway exploration shall ***note, but not be limited to, the following as applicable unless directed otherwise*** in writing by the District Geotechnical Engineer.

- ***Location survey stakes***
- ***Bench marks***
- ***Geological formation***
- ***Surface soils (i.e., potential muck pockets)***
- ***Surface water table***
- ***General site conditions***

- ***Debris and/or sanitary dump locations***
- ***Rock type***
- ***Conditions for detours***
- ***Foundation type, condition and location***
- ***Nearby structure type, condition and location***
- ***Evidence of scour***
- ***Site conditions relevant to boring plan including utilities, site access, private property access, equipment necessary, etc.***
- ***Flow through soils, dunes, exposure, flood elevations on FIRM maps***
- ***Possible obstructions to construction***

CONSULTANT shall perform specialized field-testing as required by project needs and as directed in writing by the District Geotechnical Engineer.

All laboratory testing and classification will be performed in accordance with applicable DEPARTMENT standards, ASTM Standards or AASHTO Standards, ***and the Florida Department of Transportation Soils and Foundations Handbook*** unless otherwise specified in the Contract Documents.

**35.2 Develop Detailed Boring Location Plan**

Develop a detailed boring location plan. Meet with DEPARTMENT Geotechnical Project Manager for boring plan approval. If the drilling program expects to encounter artesian conditions, the CONSULTANT shall submit a methodology(s) for plugging the borehole to the DEPARTMENT for approval prior to commencing with the boring program.

**35.3 Stake Borings/Utility Clearance**

Auger borings with water table readings, Standard Penetration Test (SPT) borings with water table readings, and Cone Pentrometer Test (CPT) soundings with water table readings shall be performed as applicable. Submit copies of field boring logs with driller's notes via fax or email to the DEPARTMENT's Geotechnical Project Manager.

Stake borings ***and cores*** and obtain utility clearance.

**35.4 Muck Probing** (Not applicable to this project)

**35.5 Coordinate and Develop Temporary Traffic Control Plans for Field Investigation**

Coordinate and develop Temporary Traffic Control Plan (TTCP). All work zone traffic control will be performed in accordance with the DEPARTMENT's Standard Plans Index 102 series.

**35.6 Drilling Access Permits** (Not applicable to this project)

**35.7 Property Clearances**

***The CONSULTANT shall*** notify property tenants in person of drilling and field activities, if applicable. Written notification to property owners/tenants ***may be required and shall be coordinated through the DEPARTMENT's Design Project Manager.***

**35.8 Groundwater Monitoring** (Not applicable to this project)

**35.9 LBR / Resilient Modulus Sampling** (Not applicable to this project)

**35.10 Coordination of Field Work**

Coordinate all field work required to provide geotechnical data for the project.

**35.11 Soil and Rock Classification - Roadway**

Refine soil profiles recorded in the field, based on results of laboratory testing.

**35.12 Design LBR** (Not applicable to this project)

**35.13 Laboratory Data**

***The laboratory testing for roadway shall consist of, but not be limited to, the following tests by designated procedures or directives available from the Geotechnical Project Manager:***

- ***Sieve analysis conducted according to AASHTO T88 and additional applicable methods: AASHTO M-92, AASHTO M 145, AASHTO M 146, AASHTO M 147, FM 1-T87***
- ***Atterberg limits conducted according to AASHTO T89 and AASHTO T90 and additional applicable methods: FM 1-T 87, AASHTO M 146***
- ***LBR tests conducted according to FM 5-515 and additional applicable methods: Modification of AASHTO T-180 Method D, AASHTO M-92***
- ***Corrosion testing for alternate culvert materials including pH (FM 5-550), resistivity (FM 5-551), chloride content (FM 5-552) and sulfate content (FM 5-553), and/or according to FDOT directives***
- ***Consolidation tests according to AASHTO T216 with an unload/reload cycle near the preconsolidation pressure***
- ***Triaxial compression tests according to AASHTO T297***
- ***Moisture content according to AASHTO T265***
- ***Conduct hydrometer analysis according to AASHTO T88***
- ***Organic content according to FM 1-T 267 and additional applicable methods: AASHTO T194, AASHTO M-231, AASHTO T87***
- ***Specific Gravity according to AASHTO T100 and additional applicable methods: AASHTO T88, ASTM D-854, AASHTO 132***
- ***Torvane sensitivity and/or pocket pentrometer tests as directed by the Project Manager/Engineer***
- ***Quantitative determination of asphalt content from asphalt paving mixtures by the ignition method according to FM 5-563.***

- ***Mechanical analysis of extracted aggregate according to FM 1-T 30 and additional applicable methods: AASHTO M-231, AASHTO T27***

(FM – Florida Methods available from the Tallahassee Maps and Publications Department.)

Tabulate laboratory test results for inclusion in the geotechnical report, the report of tests sheet (Roadway Soil Survey Sheet), and for any necessary calculations and analyses.

**35.14 Seasonal High Water Table**

Review the encountered ground water levels and estimate seasonal high ground water levels. Estimate seasonal low ground water levels, if requested.

**35.15 Parameters for Water Retention Areas** (Not applicable to this project)

**35.16 Delineate Limits of Unsuitable Material**

Delineate limits of unsuitable material(s) in both horizontal and vertical directions. Assist the Engineer of Record with detailing these limits on the cross-sections. If requested, prepare a plan view of the limits of unsuitable material.

**35.17 Electronic Files for Cross-Sections**

Create electronic files of boring data for cross-sections.

**35.18 Embankment Settlement and Stability**

Estimate the total magnitude and time rate of embankment settlements. Calculate the factor of safety against slope stability failure.

**35.19 Monitor Existing Structures** (Not applicable to this project)

**35.20 Stormwater Volume Recovery and/or Background Seepage Analysis** (Not applicable to this project)

**35.21 Geotechnical Recommendations**

Provide geotechnical recommendations regarding the proposed roadway construction project including the following: description of the site/alignment, design recommendations and discussion of any special considerations (i.e. removal of unsuitable material, consolidation of weak soils, estimated settlement time/amount, groundwater control, high groundwater conditions relative to pavement base, etc.) Evaluate and recommend types of geosynthetics and properties for various applications, as required.

**35.22 Pavement Condition Survey and Pavement Evaluation Report**

***Pavement Evaluation Report: Pavement coring, testing, and a*** pavement ***condition*** evaluation ***shall be*** performed ***by the CONSULTANT.*** The evaluation and report submittal shall be in accordance with Section 3.2 of the Materials Manual: Flexible Pavement Coring and Evaluation. ***The CONSULTANT will be responsible for recommendations regarding milling and recycling.***

***The condition of the pavement at each core location shall be observed and recorded on the Pavement Evaluation Coring and Condition Data Sheet (Form #675-030-09), and input into the Pavement Coring Reporting (PCR) system.***

***The CONSULTANT shall provide the District Materials Office the opportunity to review the Pavement Coring. A Coring plan shall be submitted to the District Bituminous Engineer, for concurrence, prior to commencing with any coring. The Pavement Design shall be submitted for concurrence, prior to the first phase submittal.***

***When the project includes adding paved shoulders, the shoulder subgrade shall be evaluated to assist the pavement designer in determining the need for subgrade stabilization or alternate pavement designs. Classification and LBR testing of subgrade soils may be necessary. Refer to the Flexible Pavement Design Manual, Chapter 8. Coordinate the extent of sampling and testing needed with the Pavement Designer and the District Geotechnical Project Manager.***

**35.23 Preliminary Roadway Report** (Not applicable to this project)

**35.24 Final Report**

The Final Roadway Report shall include the following:

- Copies of U.S.G.S. and S.C.S. maps with project limits shown.
- A report of tests sheet that summarizes the laboratory test results, the soil stratification (i.e. soils grouped into layers of similar materials, ***including water tables plotted to elevation***) and construction recommendations relative to Standard Indices 500 and 505.
- The results of all tasks discussed in all previous sections regarding data interpretation and analysis.
- An appendix that contains stratified soil boring profiles, laboratory test data sheets, sample embankment settlement and stability calculations, design LBR calculation/graphs, ***seasonal high and/or low water tables***, and other pertinent calculations.
- ***Electronic input files for plotting the boring data on the plan and cross section sheets.***

Final reports will incorporate comments from the DEPARTMENT and contain any additional field or laboratory test results, design parameters and special provisions for the contract plans. These reports will be submitted to the District Geotechnical Engineer for review prior to project completion. After review by the District Geotechnical Engineer, the reports will be submitted to the District Geotechnical

Engineer in final form and will include the following:

- ***All original plan sheets (11" x 17")***
- ***One set of all plan and specification documents, in electronic format, according to DEPARTMENT requirements***
- ***Two sets of record prints***
- ***Six sets of any special provisions***
- ***All reference and support documentation used in preparation of contract plans package***

***Additional final reports (up to four), aside from stated above, may be needed and requested for the DEPARTMENT's Project Manager and other disciplines.***

The final reports, special provisions, as well as record prints, will be signed and sealed by a Professional Engineer licensed in the State of Florida.

Draft the detailed boring/sounding standard sheet, including environmental classification, results of laboratory testing, and specialized construction requirements, for inclusion in final plans.

Structures

The CONSULTANT shall be responsible for coordination of all geotechnical related fieldwork activities. The CONSULTANT shall retain all samples until acceptance of Phase IV plans. Rock cores shall be retained as directed in writing by the District Geotechnical Engineer.

CONSULTANT shall perform specialized field-testing as required by needs of project and as directed in writing by the District Geotechnical Engineer.

All laboratory testing and classification will be performed in accordance with applicable DEPARTMENT standards, ASTM Standards or AASHTO Standards, ***and the Florida Department of Transportation Soils and Foundations Handbook*** unless otherwise specified in the Contract Documents.

The staff hour tasks for high embankment fills and structural foundations for bridges, box culverts, walls, high-mast lighting, overhead signs, mast arm signals, strain poles, buildings, and other structures include the following:

## 35.25 Auger Boring Drafting

Prepare a complete set of drawings to include all SPT borings, auger borings and other pertinent soils information in the plans. Include these drawings in the Final Geotechnical Report. Draft borings, location map, S.C.S. map and U.S.D.A. map as directed by the DEPARTMENT. Soil symbols must be consistent with those presented in the latest Florida Department of Transportation Soils and Foundations Handbook.

**35.26 SPT Boring Drafting** (Not applicable to this project)

**35.27 Develop Detailed Boring Location Plan** (Not applicable to this project)

**35.28 Stake Borings/Utility Clearance** (Not applicable to this project)

**35.29 Coordinate and Develop TTCP for Field Investigation** (Not applicable to this project)

**35.30 Drilling Access Permits** (Not applicable to this project)

**35.31 Property Clearances**

***The CONSULTANT shall*** notify property tenants in person of drilling and field activities, if applicable. Written notification to property owners/tenants ***may be required and shall be coordinated through the DEPARTMENT's Design Project Manager.***

**35.32 Collection of Corrosion Samples** (Not applicable to this project)

**35.33 Coordination of Field Work**

Coordinate all field work required to provide geotechnical data for the project.

**35.34 Soil and Rock Classification – Structures** (Not applicable to this project)

**35.35 Tabulation of Laboratory Data**

***The laboratory testing for roadway shall consist of, but not be limited to, the following tests by designated procedures or directives available from the Geotechnical Project Manager:***

- ***Sieve analysis conducted according to AASHTO T88 and additional applicable methods: AASHTO M-92, AASHTO M 145, AASHTO M 146, AASHTO M 147, FM 1-T87***
- ***Atterberg limits conducted according to AASHTO T89 and AASHTO T90 and additional applicable methods: FM 1-T 87, AASHTO M 146***
- ***Corrosion testing for environmental classification for substructure and superstructure including pH (FM 5-550), resistivity (FM 5-551), chloride content (FM 5-552) and sulfate content (FM 5-553), and/or according to FDOT directives***
- ***Consolidation tests according to AASHTO T216 with an unload/reload cycle near the preconsolidation pressure***
- ***Triaxial compression tests according to AASHTO T297***
- ***Moisture content according to AASHTO T265***
- ***Conduct hydrometer analysis according to AASHTO T88***
- ***Organic content according to FM 1-T 267 and additional applicable methods: AASHTO T194, AASHTO M-231, AASHTO T87***

- ***Specific Gravity according to AASHTO T100 and additional applicable methods: AASHTO T88, ASTM D-854, AASHTO 132***
- ***Torvane sensitivity and/or pocket pentrometer tests as directed by the Project Manager/Engineer***
- ***Seive analysis (3) for D50 of streambed material according to AASHTO T88***
- ***Splitting tensile strength of intact rock core specimens according to ASTM D 3967-86, in accordance with ASTM E 122***
- ***Unconfined compressive strength of intact rock core specimens according to ASTM D 2938-79, in accordance with ASTM E 122***

(FM – Florida Methods available from the Tallahassee Maps and Publications Department.)

Laboratory test results should be tabulated for inclusion in the geotechnical report and for the necessary calculations and analyses.

**35.36 Estimate Design Groundwater Level for Structures**

Review encountered groundwater levels, estimate seasonal high groundwater levels, and evaluate groundwater levels for structure design.

**35.37 Selection of Foundation Alternatives (BDR)** (Not applicable to this project)

**35.38 Detailed Analysis of Selected Foundation Alternate(s)** (Not applicable to this project)

**35.39 Bridge Construction and Testing Recommendations** (Not applicable to this project)

**35.40 Lateral Load Analysis (Optional)** (Not applicable to this project)

**35.41 Walls** (Not applicable to this project)

**35.42 Sheet Pile Wall Analysis (Optional)** (Not applicable to this project)

**35.43 Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations**

Provide the design soil profile(s) that include the soil model/type of each layer and all soil properties required by the Engineer of Record for foundation design. Review design for geotechnical compatibility and constructability.

**35.44 Box Culvert Analysis** (Not applicable to this project)

**35.45 Preliminary Report – BDR** (Not applicable to this project)

**35.46 Final Report - Bridge and Associated Walls** (Not applicable to this project)

**35.47 Final Reports - Signs, Signals, Box Culvert, Walls, and High Mast Lights**

The final reports shall include the following:

- Copies of U.S.G.S. and S.C.S. maps with project limits shown.
- Summary of structure background data, S.C.S., U.S.G.S., geologic and potentiometric data.
- The results of all tasks discussed in all previous sections regarding data interpretation and analysis).
- Recommendations for foundation installation, or other site preparation soils-related construction considerations with plan sheets as necessary.
- Any special provisions required for construction that are not addressed in the DEPARTMENT's Standard specification.
- An Appendix which includes SPT and CPT boring/sounding profiles, data from any specialized field tests, engineering analysis, notes/sample calculations, sheets showing ultimate bearing capacity curves versus elevation for piles and drilled shafts, a complete FHWA check list, pile driving records (if available), and any other pertinent information.
- ***Electronic input files for plotting the boring data on the plan and cross section sheets.***

Final reports will incorporate comments from the DEPARTMENT and contain any additional field or laboratory test results, recommended foundation alternatives along with design parameters and special provisions for the contract plans. These reports will be submitted to the District Geotechnical Engineer for review prior to project completion. After review by the District Geotechnical Engineer, the reports will be submitted to the District Geotechnical Engineer in final form and will include the following:

- All original plan sheets (11" x 17")
- One set of all plan and specification documents, in electronic format, according to DEPARTMENT requirements
- Two sets of record prints
- Six sets of any special provisions
- All reference and support documentation used in preparation of contract plans package

Additional final reports (up to four), aside from stated above, may be needed and requested for the DEPARTMENT's Project Manager and other disciplines.

The final reports, special provisions, as well as record prints, will be signed and sealed by a Professional Engineer licensed in the State of Florida.

Draft the detailed boring/sounding standard sheet, including environmental classification, results of laboratory testing, and specialized construction requirements, for inclusion in final plans.

**35.48 SPT Boring Drafting** (Not applicable to this project)

**35.49 Other Geotechnical** (Not applicable to this project)

**35.50 Technical Special Provisions and Modified Special Provisions** (Not applicable to this project)

**35.51 Field Reviews**

Identify and note surface soil and rock conditions, surface water conditions and locations, and preliminary utility conflicts. Observe and note nearby structures and foundation types.

**35.52 Technical Meetings**

**35.53 Quality Assurance/Quality Control**

**35.54 Supervision**

**35.55 Coordination**

## 36 3D MODELING and tasks 36.1 – 36.9 are not applicable to this project.

## 37 PROJECT REQUIREMENTS

### 37.1 Liaison Office

The DEPARTMENT and the CONSULTANT will designate a Liaison Office and a Project Manager who shall be the representative of their respective organizations for the Project. While it is expected the CONSULTANT shall seek and receive advice from various state, regional, and local agencies, the final direction on all matters of this project remain with the DEPARTMENT Project Manager.

### 37.2 Key Personnel

The CONSULTANT's work shall be performed and directed by the key personnel identified in the proposal presentations by the CONSULTANT. Any changes in the indicated personnel shall be subject to review and approval by DEPARTMENT.

### 37.3 Progress Reporting

The CONSULTANT shall meet with the DEPARTMENT as required and shall provide a written monthly progress report with approved schedule and schedule status, or by using the earned value method that describe the work performed on each task. The report will include assessing project risk through monthly documentation of identifying and updating the risk category and approach for

monitoring those tasks. Invoices shall be submitted after the DEPARTMENT approves the monthly progress report or with earned value analysis. The Project Manager will make judgment on whether work of sufficient quality and quantity has been accomplished by comparing the reported percent complete against actual work accomplished.

**37.4 Correspondence**

Copies of all written correspondence between the CONSULTANT and any party pertaining specifically to this contract shall be provided to the DEPARTMENT for their records within one (1) week of the receipt or mailing of said correspondence.

**37.5 Professional Endorsement**

The CONSULTANT shall have a Licensed Professional Engineer in the State of Florida sign and seal all reports, documents, Technical Special Provisions and Modified Special Provisions, and plans as required by DEPARTMENT standards.

**37.6 Computer Automation**

The project will be developed utilizing Computer Aided Drafting and Design (CADD) systems. The DEPARTMENT makes available software to help assure quality and conformance with policy and procedures regarding CADD. It is the responsibility of the CONSULTANT to meet the requirements in the DEPARTMENT's CADD Manual. The CONSULTANT shall submit final documents and files as described therein. ***The Engineer of Record must certify that the electronic plans and documents for the project meet the requirements of the DEPARTMENT's CADD Manual.***

**37.7 Coordination with Other Consultants**

The CONSULTANT is to coordinate his work with any and all adjacent and integral consultants so as to effect complete and homogenous plans and specifications for the project(s) described herein.

**37.8 Optional Services**

***At this time, there have been NO "optional" or "supplemental" services identified to be negotiated.***

At the DEPARTMENT's option, the CONSULTANT may be requested to provide optional services. The fee for these services shall be negotiated in accordance with the terms detailed in Exhibit B, Method of Compensation, for a fair, competitive and reasonable cost, considering the scope and complexity of the project(s). Additional services may be authorized by Letter of Authorization or supplemental amendment in accordance with paragraph 2.00 of the Standard Consultant Agreement. The additional services may include Construction Assistance, Review of Shop Drawings, Final Bridge Load Rating, update (Category II) bridge plans electronically (CADD) for the Final "As-Built" conditions, based on documents provided by the DEPARTMENT (CADD Services Only) or other Services as required.

***The*** CONSULTANT ***is*** requested to provide optional services ***for Load Rating Analyses***. The fee for these services shall be negotiated in accordance with the terms detailed in Exhibit B, Method of Compensation, for a fair, competitive and reasonable cost, considering the scope and complexity of the project(s).

***Assuming that the proposed pavement design will increase the profile grade, the intent for this project will be to feather/taper the pavement to the bridge deck to prevent an increase in the dead load. A load rating analysis will be required if the pavement design results in a change in the dead load on the Eight Mile Creek Bridge (BR#480003).***

## 38 INVOICING LIMITS

Payment for the work accomplished shall be in accordance with Method of Compensation of this contract. Invoices shall be submitted to the DEPARTMENT ***through the DEPARTMENT's Consultant Invoice Transmittal System (CITS) or*** in a format prescribed by the DEPARTMENT. The DEPARTMENT Project Manager and the CONSULTANT shall monitor the cumulative invoiced billings to ensure the reasonableness of the billings compared to the project schedule and the work accomplished and accepted by the DEPARTMENT.

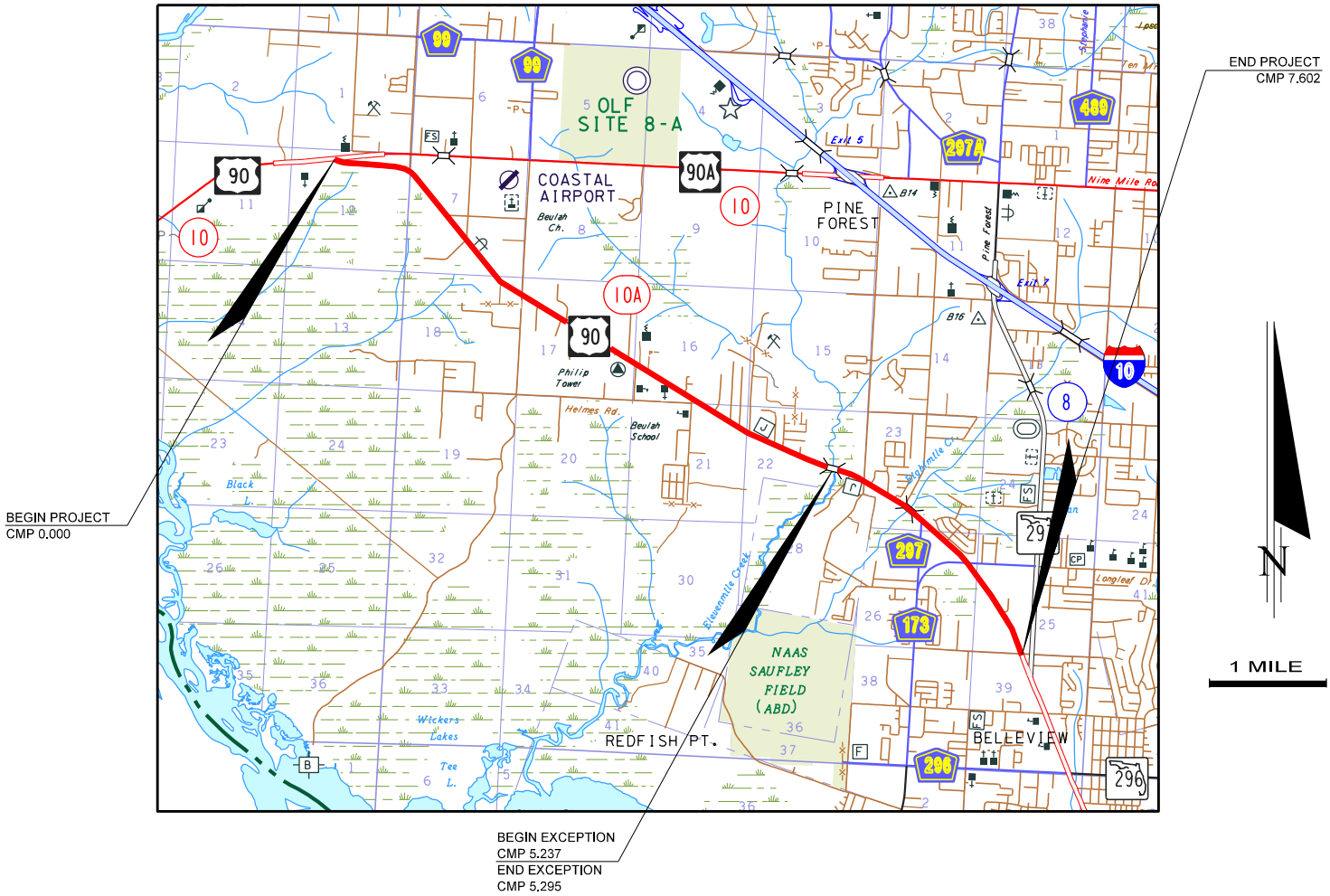
The CONSULTANT shall provide a list of key events and the associated total percentage of work considered to be complete at each event. This list shall be used to control invoicing. Payments will not be made that exceed the percentage of work for any event until those events have actually occurred and the results are acceptable to the DEPARTMENT.

## 39 PROJECT COST ACCOUNTING – FOR DISTRICTWIDE / TASK DRIVEN CONTRACTS (Not Applicable for this Project/ Contract)

# Escambia County
# Resurfacing, Rehabilitation, Restoration (RRR) Project

SR 10A (US 90 / Mobile Highway)
From SR 10 (US 90A / Nine Mile Road) to West of SR 297 (Pine Forest Road)

FPID: 437764-1
Section No.: 48020000




# PROJECT LOCATION MAP

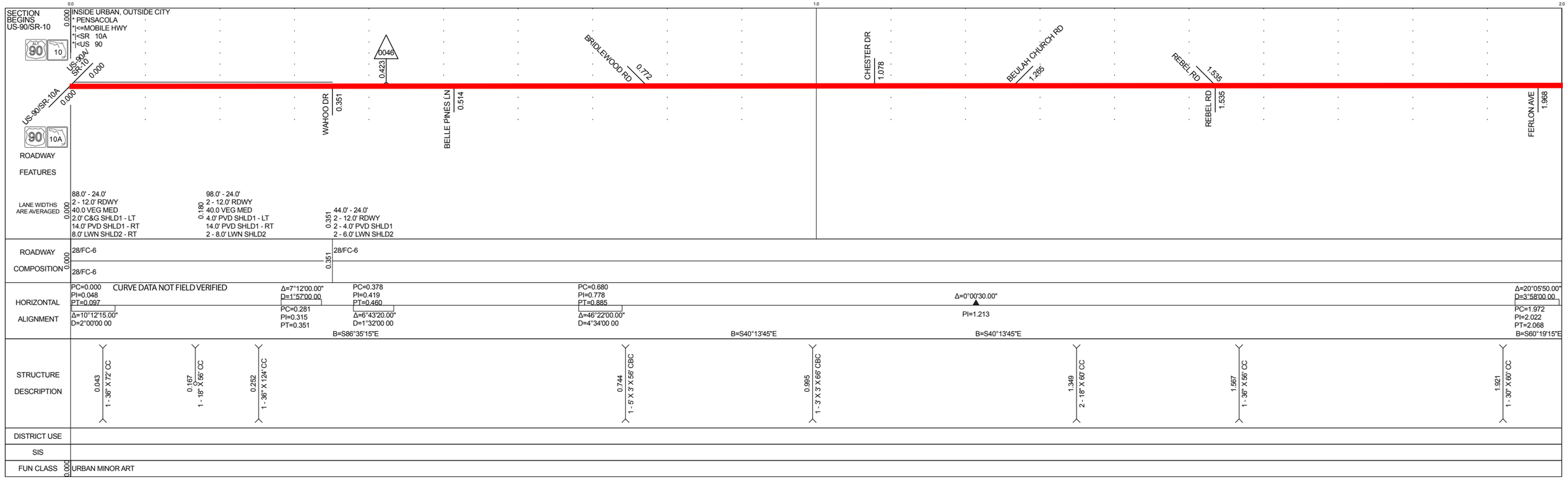
| | 5 YR INV | SLD REV |
|---|---|---|
| DATE | 03/03/2016 | 04/04/2016 |
| BY | SSMC | SSMC |

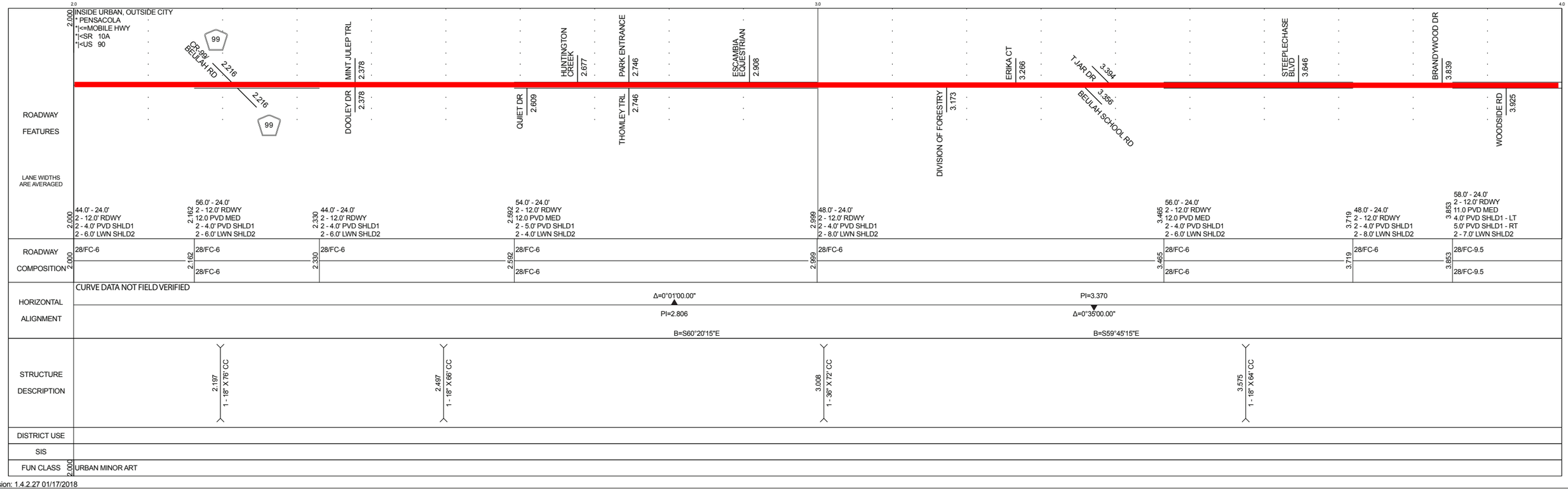
| BMP | EMP | INV | SLD REV |
|---|---|---|---|
| 3.833 | 4.083 | 01/03/2018 HSA DB/RM | 01/17/2018 HSA DS |
| 13.004 | 13.473 | 04/25/2017 HSA DB/RM | 05/12/2017 HSA DS |
| 10.315 | 12.050 | 04/25/2017 HSA DB/RM | 05/12/2017 HSA DS |

FLORIDA DEPARTMENT OF TRANSPORTATION

# STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

| SECTION STATUS | INT. or US ROUTE NO. | STATE ROAD NO. | COUNTY | DISTRICT | ROADWAY ID | SHEET NO: |
|---|---|---|---|---|---|---|
| 12 | US 90/US 98 | SR 10A | ESCAMBIA | 03 | 48020000 | 1 OF 7 |




Version: 1.4.2.27 01/17/2018

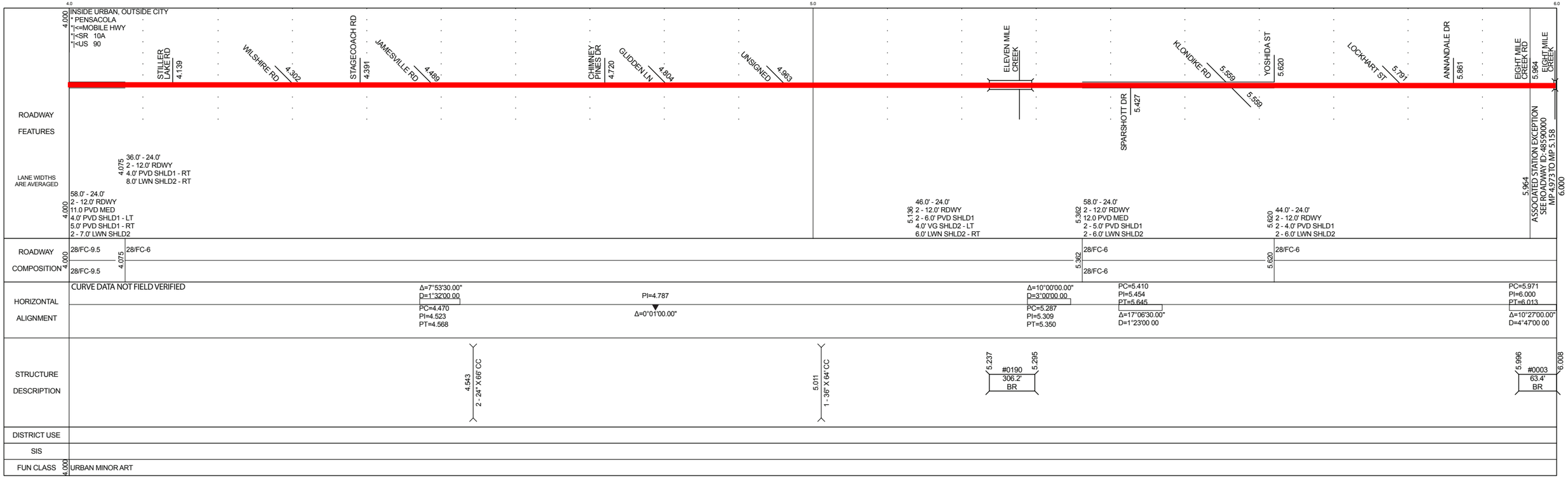
| | 5 YR INV | SLD REV |
|---|---|---|
| DATE | 03/03/2016 | 04/04/2016 |
| BY | SSMC | SSMC |

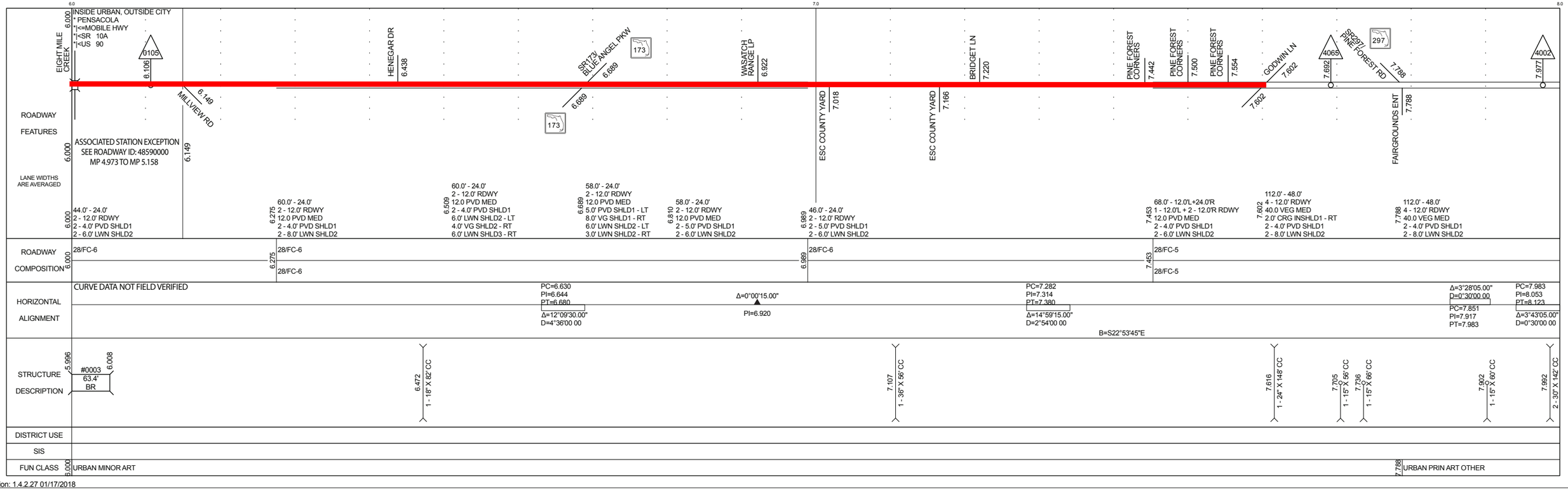
| BMP | EMP | INV | SLD REV |
|---|---|---|---|
| 3.833 | 4.083 | 01/03/2018 HSA DB/RM | 01/17/2018 HSA DS |
| 13.004 | 13.473 | 04/25/2017 HSA DB/RM | 05/12/2017 HSA DS |
| 10.315 | 12.050 | 04/25/2017 HSA DB/RM | 05/12/2017 HSA DS |

FLORIDA DEPARTMENT OF TRANSPORTATION

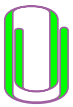
# STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

| SECTION STATUS | INT. or US ROUTE NO. | STATE ROAD NO. | COUNTY | DISTRICT | ROADWAY ID | SHEET NO: |
|---|---|---|---|---|---|---|
| 12 | US 90/US 98 | SR 10A | ESCAMBIA | 03 | 48020000 | 2 OF 7 |




Version: 1.4.2.27 01/17/2018



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          CCC             AAA     AAA      RRR      RRR
         CCC             AAA     AAA      RRR       RRR
        CCCCCCCCCCC     AAA     AAA      RRR        RRRR
       CCCCCCCCCCC     AAA     AAA      RRR         RRRRRR
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C R A S H  R E P O R T I N G  S Y S T E M

N O T I C E: THE INFORMATION CONTAINED IN THIS DOCUMENT (REPORT, SCHEDULE, LIST, OR DATA) HAS BEEN COMPILED FROM INFORMATION COLLECTED FOR THE PURPOSE OF IDENTIFYING, EVALUATING, OR PLANNING SAFETY ENHANCEMENTS. THIS PRODUCT IDENTIFIES INFORMATION USED FOR THE PURPOSE OF DEVELOPING HIGHWAY SAFETY CONSTRUCTION IMPROVEMENT PROJECTS WHICH MAY BE IMPLEMENTED UTILIZING FEDERAL-AID HIGHWAY FUNDS. ANY DOCUMENT DISPLAYING THIS NOTICE SHALL BE USED ONLY FOR THOSE PURPOSES DEEMED APPROPRIATE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. SEE TITLE 23, UNITED STATES CODE, SECTION 409.

```
I/O NAME: ...............  CARI122
PROGRAM ID: .............  CARPJ122
REPORT NUMBER: ..........  01
RUN CLASS: ..............  A
MESSAGE CLASS: ..........  Q
PRINTER DEST: ...........  LOCAL
# COPIES: ...............  01
ACCOUNT #: ..............  5565945
SUBMIT W/HOLD? ..........  N
USERID: .................  KNAKNGH
DETAIL SORT ORDER: ......  1 - SORT BY ROADWAY, MILE POINT
PRINT SEGMENTS? .........  N
PRINT INTERSECTIONS? ....  N
SUMMARY FORMAT: .........  2 - TOP LINE ALL BREAKS
OVERRIDE VALUES:
 MAX # OF BREAKS: .......  06
 CRASH RATE CATEGORY: ...
 AVERAGE DAILY TRAFFIC:..
 # OF LEGS: .............
```

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2011 TO 12/31/2015 RAMPS INCL
FROM CO/SEC/SUB: 48 020 000 MP: 000.000 INFL INCL
TO CO/SEC/SUB: 48 020 000 MP: 007.602 CR/OS INCL

| C R N A U S M H B E R | ROADWYID C S E C T I O N | S U B | M I L E P O S T | N E N A O R D E E S | S T A T E D | ADT VAR EIA RLF AYF G I E C | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE H SG Y | A L C | H AE RV ME FN I | MO AF NC HN EO TD RL IT NN GS | L IC GO TN HD ET L NN RN GS | W EC AO HU RT FN S | R D | R OC AO DN D ST S | DL OO TC A II EN | R O C D L I S | A C N R | V 1 DY YP # | V 1 1U 1C SC P E | VF 1U N | VM 1A N | VA 1C T E | V 1A G R | V 2 DI DE R1 R | V 2N I | V 2N DE /S C | V 2N OD NO CC / | V 2M NR VI /R | V 2M TT 1N /1 | N M AA CC | V 2N A GE E | # # # V RA L AG L E S | K H C L E D | I N U R J D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 831931070 | 48020000 | | 00.000 | 0003 | | 10 001300 | 12 | 08 | 17 | 16 | R-2DR 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | 2 | W | 16 | 01 | 03 | 01 | 56 | S | 16 | 01 | 01 | 01 | | 37 | 2 | 0 | 01 |
| 838343770 | 48020000 | | 00.000 | 0003 | | 10 001350 | 15 | 04 | 08 | 14 | U-2DR 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | E | 03 | 01 | 01 | 02 | 24 | E | 16 | 01 | 13 | 01 | | 52 | 2 | 0 | 00 |
| 845714270 | 48020000 | | 00.001 | 0003 | | 10 001350 | 15 | 02 | 07 | 02 | U-2DR 1 | 09 | 77 | 04 | 01 | 01 | 01 | 02 | R | S | N | 01 | 01 | 01 | 02 | 18 | | | | | | | | 1 | 0 | 02 |
| 845624040 | 48020000 | | 00.004 | 0003 | | 10 001350 | 15 | 02 | 19 | 08 | U-2DR 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 2 | E | 01 | 01 | 01 | 02 | 31 | E | 03 | 01 | 13 | 01 | | 55 | 2 | 0 | 01 |
| 832832260 | 48020000 | | 00.006 | 0003 | | 10 001300 | 13 | 02 | 05 | 15 | U-2DR 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | L | A | N | 01 | 01 | 01 | 02 | 21 | N | 01 | 01 | 13 | 01 | | 20 | 2 | 0 | 01 |
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| 822559120 | 48020000 | | 00.028 | 0003 | | 10 001350 | 11 | 07 | 03 | 15 | R-2DR 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | 2 | N | 01 | 01 | 01 | 02 | 18 | N | 16 | 01 | 13 | 01 | | 57 | 2 | 0 | 01 |
| 852190390 | 48020000 | | 00.028 | 0003 | | 10 001350 | 15 | 11 | 01 | 04 | U-2DR 0 | 23 | 77 | 05 | 02 | 01 | 01 | 01 | R | S | N | 03 | 01 | 01 | | 00 | | | | | | | | 1 | 0 | 00 |
| 833168250Y | 48010054 | | 00.034 | 0048 | | 10 000000 | 13 | 04 | 25 | 20 | ERROR 0 | 14 | 01 | 04 | 01 | 01 | 01 | 08 | R | X | E | 03 | 01 | 01 | 02 | 30 | E | 01 | 01 | 13 | 01 | | 33 | 2 | 0 | 00 |
| 828383150Y | 48010054 | | 00.038 | 0048 | | 10 000000 | 11 | 12 | 05 | 17 | ERROR 0 | 01 | 77 | 05 | 02 | 02 | 10 | 01 | L | S | W | 03 | 01 | 01 | 01 | 64 | | | | | | | | 1 | 0 | 01 |
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| 844948840 | 48020000 | | 00.186 | 2155 | | 10 001250 | 14 | 10 | 18 | 00 | S-2DR 0 | 09 | 77 | 05 | 02 | 01 | 01 | 02 | L | H | W | 01 | 01 | 01 | 02 | 23 | | | | | | | | 1 | 0 | 01 |
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| 822578440 | 48020000 | | 00.772 | 0049 | | 10 001350 | 11 | 08 | 01 | 17 | R-2UN 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | R | 1 | N | 01 | 01 | 03 | 03 | 29 | E | 11 | 01 | 01 | 01 | | 41 | 2 | 0 | 01 |
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| 828729570 | 48020000 | | 00.772 | 0049 | | 10 001300 | 12 | 02 | 04 | 13 | R-2UN 0 | 14 | 02 | 01 | 02 | 01 | 01 | 02 | T | 1 | W | 01 | 01 | 05 | 06 | 93 | S | 03 | 01 | 13 | 01 | | 41 | 2 | 0 | 01 |
| 832363920 | 48020000 | | 00.772 | 0049 | | 10 001300 | 12 | 12 | 16 | 10 | R-2UN 0 | 33 | 77 | 01 | 02 | 01 | 01 | 02 | L | S | W | 01 | 01 | 01 | 02 | 22 | | | | | | | | 1 | 0 | 01 |
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COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2011 TO 12/31/2015 RAMPS INCL
FROM CO/SEC/SUB: 48 020 000 MP: 000.000 INFL INCL
TO CO/SEC/SUB: 48 020 000 MP: 007.602 CR/OS INCL

| C R N A U S M H B E R | ROADWYID C S E C T I O N | S U R F A C E T Y P E | M I L E P O S T | N E N A T U R E | S T R A T A | ADT VAR EIA RLF AYF | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE | A L C | H AE RV ME FN I UT V L Y | MO AF NC EO RL 1 | L IC HN TD IT NN GS | W EC AO TN HD ET RN S | R D U R | R OC AO DN T S | DL OO TC A ST II EN | R O C D S N | A C R | V 1 DY YP # | V 1 B OT E C | VF 1U N SC P E | VM 1A N E U | VA 1C T DI RO IN E V R1 | V 1A G DE R I V R | V 2 D OD UL /S CC / C | V 2N M B F RO 1N /R /1 | V 2N M MP VI TT NR CC | VN 2M M AA | VN 2M M | N V C A T | # 2E RA AG GE | # V H C L E S | # K L U R D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 829068620 | 48020000 | 02.102 | 0052 | 10 | 001300 | 12 | 04 | 05 | 03 | R-2UN | 1 | 23 | 77 | 05 | 01 | 01 | 01 | 01 | R | S | E | 01 | 01 | 01 | 02 | 23 | | | | | | | | 1 | 0 | 01 |
| 828770330 | 48020000 | 02.116 | 0052 | 10 | 001300 | 12 | 03 | 13 | 11 | R-2UN | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 01 | L | 1 | W | 16 | 01 | 01 | 02 | 81 | W | 01 | 01 | 13 | 01 | | 44 | 2 | 0 | 02 |
| 832046720 | 48020000 | 02.121 | 0052 | 10 | 001300 | 12 | 09 | 29 | 18 | R-2UN | 0 | 14 | 03 | 05 | 02 | 02 | 01 | 04 | R | 1 | W | 03 | 01 | 03 | 03 | 52 | E | 02 | 01 | 01 | 01 | | 41 | 2 | 0 | 01 |
| 851997750 | 48020000 | 02.140 | 0052 | 10 | 001350 | 15 | 10 | 27 | 18 | S-2UN | 1 | 14 | 03 | 05 | 02 | 02 | 10 | 01 | L | 1 | S | 03 | 01 | 01 | 25 | 49 | N | 01 | 01 | 01 | 01 | | 72 | 2 | 0 | 00 |
| 852111590 | 48020000 | 02.178 | 0052 | 10 | 001350 | 15 | 11 | 10 | 05 | S-2DP | 0 | 14 | 02 | 04 | 02 | 01 | 01 | 01 | L | 1 | N | 01 | 01 | 06 | 25 | 23 | S | 01 | 01 | 01 | 01 | | 46 | 2 | 0 | 03 |
| 828335050 | 48020000 | 02.197 | 0052 | 10 | 001350 | 11 | 10 | 07 | 00 | R-2DP | 0 | 38 | 77 | 05 | 01 | 01 | 01 | 01 | L | S | W | 01 | 01 | 01 | 02 | 18 | | | | | | | | 1 | 0 | 01 |
| 852345800 | 48020000 | 02.197 | 0052 | 10 | 001350 | 15 | 12 | 14 | 16 | S-2DP | 0 | 14 | 04 | 01 | 01 | 01 | 01 | 03 | L | 1 | W | 01 | 01 | 06 | 77 | 25 | W | 16 | 01 | 13 | 01 | | 57 | 2 | 0 | 00 |
| 831737430 | 48020000 | 02.211 | 0052 | 10 | 001300 | 12 | 08 | 20 | 17 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | L | L | W | 03 | 01 | 01 | 02 | 24 | W | 01 | 01 | 13 | 01 | | 25 | 2 | 0 | 00 |
| 819934530 | 48020000 | 02.216 | 0052 | 10 | 001350 | 11 | 03 | 09 | 10 | S-2DP | 0 | 09 | 77 | 01 | 03 | 02 | 01 | 02 | R | S | S | 19 | 01 | 01 | 03 | 26 | W | 03 | 01 | 01 | 01 | | 21 | 2 | 0 | 00 |
| 820746970 | 48020000 | 02.216 | 0052 | 10 | 001350 | 11 | 04 | 01 | 15 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | R | 1 | S | 03 | 01 | 01 | 03 | 76 | E | 03 | 01 | 01 | 01 | | 56 | 2 | 0 | 00 |
| 820939130 | 48020000 | 02.216 | 0052 | 10 | 001350 | 11 | 04 | 01 | 15 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | R | 1 | W | 01 | 01 | 03 | 03 | 77 | E | 01 | 01 | 01 | 01 | | 51 | 2 | 0 | 03 |
| 822637480 | 48020000 | 02.216 | 0052 | 10 | 001350 | 11 | 08 | 22 | 15 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | T | 1 | S | 01 | 01 | 01 | 02 | 24 | S | 02 | 01 | 13 | 01 | | 37 | 2 | 0 | 00 |
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| 831447470 | 48020000 | 02.216 | 0052 | 10 | 001300 | 12 | 04 | 24 | 17 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 01 | 03 | 22 | W | 01 | 01 | 01 | 01 | | 72 | 2 | 0 | 00 |
| 829113440 | 48020000 | 02.216 | 0052 | 10 | 001300 | 12 | 06 | 13 | 13 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | R | 1 | S | 01 | 01 | 01 | 03 | 80 | E | 01 | 01 | 01 | 01 | | 18 | 2 | 0 | 01 |
| 831494590 | 48020000 | 02.216 | 0052 | 10 | 001300 | 12 | 07 | 01 | 15 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | L | 1 | N | 03 | 01 | 01 | 03 | 37 | W | 16 | 01 | 01 | 01 | | 38 | 2 | 0 | 01 |
| 832766060 | 48020000 | 02.216 | 0052 | 10 | 001300 | 13 | 03 | 05 | 07 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | L | 1 | N | 16 | 01 | 01 | 03 | 37 | W | 03 | 01 | 01 | 01 | | 45 | 2 | 0 | 00 |
| 832997260 | 48020000 | 02.216 | 0052 | 10 | 001300 | 13 | 05 | 31 | 14 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | L | 1 | S | 07 | 01 | 01 | 03 | 60 | E | 03 | 01 | 01 | 01 | | 21 | 2 | 0 | 04 |
| 837209680 | 48020000 | 02.216 | 0052 | 10 | 001300 | 13 | 12 | 13 | 18 | S-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | R | 1 | S | 16 | 01 | 01 | 03 | 33 | E | 16 | 01 | 01 | 01 | | 52 | 2 | 0 | 02 |
| 837607200 | 48020000 | 02.216 | 0052 | 10 | 001250 | 14 | 03 | 21 | 21 | S-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 01 | 13 | 19 | W | 16 | 01 | 01 | 01 | | 26 | 2 | 0 | 05 |
| 844989140 | 48020000 | 02.216 | 0052 | 10 | 001250 | 14 | 09 | 21 | 15 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 03 | 03 | 88 | E | 03 | 01 | 01 | 01 | | 34 | 2 | 0 | 01 |
| 845631490 | 48020000 | 02.216 | 0052 | 10 | 001350 | 15 | 01 | 06 | 14 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 03 | 03 | 64 | W | 03 | 01 | 01 | 01 | | 28 | 2 | 0 | 00 |
| 845598020 | 48020000 | 02.216 | 0052 | 10 | 001350 | 15 | 02 | 24 | 11 | S-2DP | 0 | 14 | 02 | 01 | 01 | 01 | 01 | 02 | R | 1 | S | 16 | 01 | 05 | 03 | 31 | E | 16 | 01 | 01 | 01 | | 30 | 3 | 0 | 06 |
| 848591820 | 48020000 | 02.216 | 0052 | 10 | 001350 | 15 | 05 | 02 | 01 | S-2DP | 0 | 14 | 03 | 04 | 01 | 01 | 01 | 02 | R | 1 | N | 01 | 01 | 01 | 03 | 17 | E | 01 | 01 | 01 | 01 | | 24 | 2 | 0 | 00 |
| 851173410 | 48020000 | 02.216 | 0052 | 10 | 001350 | 15 | 07 | 11 | 22 | S-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | L | 1 | S | 16 | 01 | 01 | 01 | 59 | E | 01 | 01 | 01 | 77 | | 16 | 2 | 0 | 01 |
| 851342440 | 48020000 | 02.216 | 0052 | 10 | 001350 | 15 | 07 | 25 | 15 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | R | 1 | N | 16 | 01 | 01 | 13 | 43 | E | 01 | 01 | 01 | 01 | | 60 | 2 | 0 | 00 |
| 851630750 | 48020000 | 02.216 | 0052 | 10 | 001350 | 15 | 09 | 08 | 09 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | N | 02 | 01 | 01 | 03 | 24 | W | 03 | 01 | 01 | 01 | | 61 | 2 | 0 | 03 |
| 851807610 | 48020000 | 02.216 | 0052 | 10 | 001350 | 15 | 09 | 13 | 15 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | R | 1 | W | 16 | 01 | 01 | 01 | 18 | S | 01 | 01 | 01 | 01 | | 37 | 2 | 0 | 01 |
| 852111130 | 48020000 | 02.216 | 0052 | 10 | 001350 | 15 | 10 | 11 | 16 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 02 | 01 | 01 | 03 | 46 | S | 01 | 01 | 01 | 01 | | 70 | 2 | 0 | 02 |
| 851605730 | 48020000 | 02.216 | 0052 | 10 | 001350 | 15 | 10 | 15 | 17 | S-2DP | 0 | 14 | 03 | 02 | 01 | 01 | 01 | 02 | R | 1 | S | 02 | 01 | 01 | 03 | 59 | E | 01 | 01 | 01 | 01 | | 18 | 2 | 0 | 03 |
| 852179900 | 48020000 | 02.216 | 0052 | 10 | 001350 | 15 | 11 | 23 | 18 | S-2DP | 2 | 25 | 77 | 05 | 01 | 01 | 01 | 02 | S | S | S | 01 | 01 | 77 | 02 | 50 | | | | | | | | 1 | 0 | 00 |
| 828194840 | 48020000 | 02.222 | 0052 | 10 | 009400 | 11 | 10 | 04 | 07 | S-2DP | 0 | 10 | 77 | 03 | 01 | 01 | 01 | 03 | R | S | E | 00 | 01 | 01 | | 00 | * | 01 | 07 | 04 | 01 | 00 | 17 | 1 | 0 | 01 |
| 828213540 | 48020000 | 02.225 | 0052 | 10 | 009400 | 11 | 10 | 03 | 17 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | 1 | E | 03 | 01 | 01 | | 00 | E | 01 | 01 | 13 | 01 | | 58 | 2 | 0 | 00 |
| 820907270 | 48020000 | 02.235 | 0052 | 10 | 009400 | 11 | 05 | 13 | 15 | S-2DP | 0 | 14 | 01 | 01 | 03 | 02 | 01 | 03 | L | 1 | W | 03 | 01 | 01 | 12 | 35 | W | 03 | 01 | 13 | 01 | | 30 | 2 | 0 | 00 |
| 851342430 | 48020000 | 02.235 | 0052 | 10 | 011400 | 15 | 07 | 25 | 14 | S-2DP | 0 | 14 | 02 | 01 | 01 | 01 | 01 | 01 | R | 1 | S | 03 | 01 | 01 | 21 | 55 | N | 01 | 01 | 01 | 01 | | 32 | 2 | 0 | 02 |
| 828285720 | 48020000 | 02.244 | 0052 | 10 | 009400 | 11 | 09 | 03 | 23 | S-2DP | 1 | 14 | 04 | 05 | 03 | 02 | 01 | 03 | L | 1 | W | 01 | 01 | 11 | 15 | 22 | W | 03 | 01 | 14 | 01 | | 43 | 2 | 0 | 04 |
| 852310620 | 48020000 | 02.359 | 0053 | 10 | 011400 | 15 | 12 | 05 | 21 | S-2UN | 0 | 10 | 77 | 05 | 01 | 01 | 01 | 03 | R | S | W | 00 | 01 | 01 | | 00 | * | 01 | 07 | 04 | 01 | 00 | 23 | 1 | 0 | 01 |

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COMMENT:                                        1 - SORT BY ROADWAY, MILE POINT
  FROM: 01/01/2011 TO 12/31/2015                                        RAMPS INCL
  FROM CO/SEC/SUB: 48 020 000               MP: 000.000                  INFL INCL
  TO   CO/SEC/SUB: 48 020 000               MP: 007.602                 CR/OS INCL

   C       ROADWYID    M      N    S    ADT   Y  M  D  H  CRCC  A H  MO L  W  R  R  DL R A V V  VF VM VA V  V V  V  VN VN  N V  # # #
  R N      C S   S     I      EN   TR   VAR   E  O  A  O  RALA  L AE AF IC EC D  OC OO O C 1 1  1U 1A 1C 1A 2 2N 2N 2M 2M  M 2N
  A U      O E   E     L      AO   AO   EIA   A  N  Y  U  ATAT  C RV N  GO AO    AO TC A C       N  N  T  G    M  M            M V K I
  S M      U C  SC     E      RD   TA   RLF   R  T     R  SESE    ME NC HN TN S  DN  A D    D B  SC  E DI DE D B  F  MP AA  A D  E I N
  H B      N T  UT     P      EE   ED   AYF      H        H SG  I FN EO TD HD U   D ST   L I OT P   U RO R  I OD UL NR CC  C RA H L J
    E      T I  BI     O      S         G I                  O  N UT RL IT ET R   T II S N R DY E   V IN I  R DE NO VI TT  T AG C L U
    R      Y O   O     S      T         E C                  R  V L   L NN RN F   N TO D    YP C   E V  V    /S CC RO 1N  N GE L E R
             N   N     T                                     Y     1    GS  S     S EN   #    E    R R1 R     C /  /R /1  2 E  S D D
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832581090 48020000 02.378 0053   10 010300 13 01 04 23 S-2UN 0 26 77 04 01 01 01 02 L S W 03 01 01 26 29                           1 0 00
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822736960 48020000 02.466 0053   10 009400 11 08 28 11 S-2UN 0 36 88 01 01 01 01 01 L 1 E 01 01 01 02 25                           1 0 01
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
851923020 48010000 02.476 0003   10 005059 15 09 16 08 S-4DR 0 14 01 01 01 01 01 02 R 2 N 01 01 14 02 73 N 03 01 13 01       47 2 0 01
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
833347800 48020000 02.478 0053   10 010300 13 07 20 02 S-2UN 0 09 77 05 02 01 01 01 R S W 00 01 01    00                           1 0 00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
832363830 48010000 02.485 0003   10 004902 12 12 08 11 R-4DR 0 14 03 01 02 01 01 02 R 1 W 03 01 03    00 E 11 01 01 01       49 2 0 01
836790430 48010000 02.485 0003   10 005018 13 09 15 09 R-4DR 0 14 03 01 01 01 01 02 R 2 N 01 01 01 01 33 E 03 01 01 01       50 2 0 01
845289100 48010000 02.485 0003   10 005015 14 11 13 14 S-4DR 0 14 03 01 01 02 10 02 R 2 W 16 01 03 03 34 E 01 01 01 01       22 2 0 00
845631900 48010000 02.485 0003   10 005059 15 02 18 15 S-4DR 0 14 03 01 01 01 01 02 R 2 W 01 01 03 03 21 E 01 01 01 01       43 2 0 03
848952660 48010000 02.485 0003   10 005059 15 05 23 18 S-4DR 0 14 02 01 01 01 01 02 R 1 W 01 01 03 03 26 W 16 01 01 01       46 2 0 04
848720930 48010000 02.487 0003   10 004900 15 10 06 12 S-4DR 0 14 01 01 02 01 01 02 L 1 S 03 01 01 02 25 S 16 01 13 01       33 2 0 02
820400090Y48010000 02.523 0003   10 004500 11 02 12 18 R-4DR 1 01 77 05 01 01 01 01 M M W 03 01 06    00 W 11 01 01 01       47 2 0 01
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
820712620 48020000 03.054 2991   10 009400 11 02 17 14 S-2UN 0 33 03 01 01 01 01 01 R S N 16 01 01 26 19                           1 0 00
848781120 48020000 03.347 0054   10 011400 15 05 09 22 S-2UN 0 37 77 05 02 01 01 02 R S W 01 01 77 26 25                           1 0 01
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833362190 48020000 03.925 0055   10 008800 14 10 10 15 S-2UN 0 14 03 01 02 01 01 02 L 1 N 16 01 03 03 17 E 03 01 01 01       45 2 0 00
836424700 48020000 03.925 0055   10 011400 15 05 01 14 S-2UN 0 14 01 01 01 01 01 02 S 1 E 16 01 01 02 28 E 03 01 13 01       43 2 0 00
832355820 48020000 03.944 0055   10 009400 12 11 17 07 S-2UN 0 14 01 01 01 01 01 03 L 1 W 01 01 01    00 W 01 01 13 01       51 2 0 01
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833207100 48020000 04.489 0060   10 010300 13 06 01 10 S-2UN 0 14 01 01 02 01 01 02 R 1 N 11 01 01 10 56 N 01 01 01 01       19 2 0 01
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852165480 48020000 04.517 0060   10 011400 15 11 06 07 S-2UN 0 14 01 01 04 01 01 01 L 1 E 01 01 01 02 18 E 01 01 14 01       52 2 0 00
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COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2011 TO 12/31/2015 RAMPS INCL
FROM CO/SEC/SUB: 48 020 000 MP: 000.000 INFL INCL
TO CO/SEC/SUB: 48 020 000 MP: 007.602 CR/OS INCL

| C R N A U S M H B E R | ROADWYID C S E C T I O N | S S E C T I O N | M I L E P O S T | N E A R S I D E S T | S T R A O A T A | ADT VAR EIA RLF AYF | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE H SG | A L C | H AE RV ME FN I | MO AF NC HN EO UT Y | L IC GO TD RL IT 1 | W EC AO HN HD ET GS | R D S U R F N S | R OC AO DN D T S | DL OO TC A ST II EN | R O C L N # | A C 1 D I R | V 1 OT DY E V R | V 1 P E C R | VF 1U N SC E DI RO R1 | VM 1A N T U IN V R | VA 1C T G E I V R | V 1A DE R | V 2 D I R | V 2N OD DE /S C | V 2N UL NO CC / | VN 2M F M MP VI RO /R | VN 2M MP AA TT 1N /1 | N M A T N 2 | V 2N D RA AG GE E | # # # E H C L S | # # # I V L U R D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 828730100 | 48020000 | 05.559 | 0062 | | 10 | 009400 | 12 | 02 | 02 | 07 | S-2DP | 0 | 14 | 03 | 01 | 02 | 02 | 01 | 02 | L | 1 | E | 01 | 01 | 01 | 03 | 46 | N | 01 | 01 | 01 | 01 | | 42 | 3 | 0 | 04 |
| 828807820 | 48020000 | 05.559 | 0062 | | 10 | 009400 | 12 | 02 | 26 | 18 | S-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | R | 1 | S | 01 | 01 | 01 | 03 | 27 | E | 03 | 01 | 01 | 01 | | 53 | 2 | 0 | 01 |
| 832476510 | 48020000 | 05.559 | 0062 | | 10 | 010300 | 13 | 01 | 11 | 11 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | L | 1 | N | 01 | 01 | 01 | 03 | 35 | W | 01 | 01 | 01 | 01 | | 22 | 2 | 0 | 00 |
| 832783110 | 48020000 | 05.559 | 0062 | | 10 | 010300 | 13 | 01 | 25 | 23 | S-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 01 | 13 | 18 | E | 01 | 01 | 01 | 01 | | 31 | 2 | 0 | 01 |
| 832610830 | 48020000 | 05.559 | 0062 | | 10 | 010300 | 13 | 02 | 05 | 10 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | R | 1 | S | 01 | 01 | 01 | 03 | 54 | E | 02 | 01 | 01 | 01 | | 55 | 2 | 0 | 02 |
| 832817480 | 48020000 | 05.559 | 0062 | | 10 | 010300 | 13 | 02 | 09 | 08 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | N | 01 | 01 | 01 | 03 | 36 | W | 01 | 01 | 01 | 01 | | 35 | 2 | 0 | 00 |
| 833168710 | 48020000 | 05.559 | 0062 | | 10 | 010300 | 13 | 05 | 20 | 16 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | N | 03 | 01 | 01 | 03 | 61 | W | 01 | 01 | 01 | 01 | | 25 | 2 | 0 | 00 |
| 833370270 | 48020000 | 05.559 | 0062 | | 10 | 010300 | 13 | 06 | 29 | 16 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | R | 1 | S | 03 | 01 | 01 | 03 | 78 | E | 03 | 01 | 01 | 01 | | 57 | 2 | 0 | 01 |
| 833307900 | 48020000 | 05.559 | 0062 | | 10 | 010300 | 13 | 07 | 14 | 21 | S-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | L | 1 | E | 02 | 01 | 01 | 03 | 23 | N | 01 | 01 | 01 | 01 | | 46 | 2 | 0 | 00 |
| 833307910 | 48020000 | 05.559 | 0062 | | 10 | 010300 | 13 | 07 | 15 | 00 | S-2DP | 1 | 34 | 77 | 04 | 01 | 01 | 01 | 02 | S | S | S | 21 | 02 | 03 | 02 | 38 | | | | | | | | 1 | 0 | 00 |
| 837144240 | 48020000 | 05.559 | 0062 | | 10 | 010300 | 13 | 11 | 16 | 12 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | T | 1 | S | 00 | 01 | 01 | | 00 | S | 01 | 01 | 13 | 01 | | 46 | 2 | 0 | 00 |
| 836857910 | 48020000 | 05.559 | 0062 | | 10 | 010300 | 13 | 12 | 20 | 17 | S-2DP | 0 | 14 | 05 | 05 | 01 | 01 | 01 | 02 | S | 1 | W | 03 | 01 | 03 | 06 | 31 | N | 01 | 01 | 13 | 01 | | 59 | 2 | 0 | 01 |
| 833362100 | 48020000 | 05.559 | 0062 | | 10 | 008800 | 14 | 04 | 08 | 17 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | L | 1 | N | 01 | 01 | 01 | 13 | 21 | W | 03 | 01 | 01 | 01 | | 39 | 2 | 0 | 02 |
| 837765320 | 48020000 | 05.559 | 0062 | | 10 | 008800 | 14 | 07 | 22 | 16 | S-2DP | 0 | 14 | 02 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 03 | 06 | 74 | W | 16 | 03 | 01 | 01 | | 53 | 2 | 0 | 03 |
| 845476660 | 48020000 | 05.559 | 0062 | | 10 | 008800 | 14 | 12 | 06 | 18 | S-2DP | 0 | 14 | 03 | 05 | 02 | 02 | 10 | 02 | L | 1 | S | 16 | 01 | 01 | 13 | 45 | W | 01 | 01 | 01 | 01 | | 51 | 2 | 0 | 02 |
| 848817880 | 48020000 | 05.559 | 0062 | | 10 | 011400 | 15 | 03 | 22 | 11 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 03 | 01 | 03 | 03 | 43 | W | 01 | 01 | 01 | 01 | | 68 | 2 | 0 | 02 |
| 848869100 | 48020000 | 05.559 | 0062 | | 10 | 011400 | 15 | 03 | 29 | 00 | S-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | L | 1 | N | 01 | 01 | 01 | 03 | 22 | W | 01 | 01 | 01 | 01 | | 20 | 2 | 0 | 00 |
| 851924880 | 48020000 | 05.559 | 0062 | | 10 | 011400 | 15 | 11 | 09 | 09 | S-2DP | 0 | 14 | 03 | 01 | 02 | 02 | 01 | 02 | I | M | W | 03 | 01 | 01 | 13 | 49 | S | 02 | 01 | 01 | 01 | | 27 | 3 | 0 | 02 |
| 852179870 | 48020000 | 05.559 | 0062 | | 10 | 011400 | 15 | 11 | 22 | 14 | S-2DP | 0 | 14 | 02 | 01 | 01 | 01 | 01 | 02 | R | 1 | S | 01 | 01 | 03 | 01 | 23 | N | 16 | 01 | 01 | 02 | | 67 | 2 | 0 | 02 |
| 828288890 | 48020000 | 05.563 | 0062 | | 10 | 009400 | 11 | 11 | 11 | 16 | S-2DP | 0 | 14 | 04 | 02 | 01 | 01 | 01 | 02 | R | 1 | E | 03 | 01 | 11 | | 00 | E | 01 | 01 | 13 | 01 | | 29 | 2 | 0 | 00 |
| 833250430 | 48020000 | 05.565 | 0062 | | 10 | 010300 | 13 | 06 | 05 | 15 | S-2DP | 0 | 25 | 77 | 01 | 01 | 01 | 01 | 02 | L | S | S | 03 | 01 | 03 | 01 | 54 | W | 01 | 01 | 01 | 01 | | 21 | 2 | 0 | 00 |
| 820344030Y | 48020000 | 05.620 | 0063 | | 10 | 009400 | 11 | 01 | 31 | 00 | S-2UN | 0 | 01 | 77 | 05 | 03 | 02 | 01 | 01 | T | S | N | 01 | 01 | 05 | 12 | 18 | | | | | | | | 1 | 0 | 03 |
| 837490550 | 48020000 | 05.625 | 0063 | | 10 | 008800 | 14 | 02 | 26 | 09 | S-2UN | 0 | 14 | 03 | 01 | 03 | 02 | 01 | 02 | R | 1 | E | 16 | 01 | 10 | 77 | 17 | E | 01 | 01 | 01 | 01 | | 29 | 2 | 0 | 02 |
| 828939640 | 48020000 | 05.658 | 0063 | | 10 | 009400 | 12 | 02 | 26 | 19 | S-2UN | 0 | 10 | 77 | 05 | 02 | 01 | 11 | 03 | L | 1 | W | 01 | 01 | 01 | 01 | 19 | * | 01 | 05 | 77 | 05 | 00 | 58 | 1 | 1 | 00 |
| 832958620 | 48020000 | 05.659 | 0063 | | 10 | 010300 | 13 | 03 | 13 | 17 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | L | 1 | W | 03 | 01 | 01 | 02 | 65 | W | 01 | 01 | 01 | 01 | | 30 | 2 | 0 | 00 |
| 828667680 | 48020000 | 05.753 | 0064 | | 10 | 009400 | 12 | 01 | 27 | 02 | S-2UN | 1 | 25 | 77 | 05 | 02 | 02 | 01 | 01 | L | L | N | 01 | 01 | 01 | 26 | 22 | | | | | | | | 1 | 0 | 03 |
| 845569210 | 48020000 | 05.785 | 0064 | | 10 | 011400 | 15 | 02 | 12 | 08 | S-2UN | 0 | 10 | 77 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 03 | 01 | 01 | 01 | 68 | * | 06 | 05 | 03 | 77 | 00 | 18 | 1 | 0 | 00 |
| 828625160 | 48020000 | 05.791 | 0064 | | 10 | 009400 | 12 | 02 | 10 | 18 | S-2UN | 0 | 14 | 01 | 05 | 03 | 02 | 01 | 02 | R | 1 | E | 16 | 01 | 01 | 02 | 19 | E | 01 | 01 | 13 | 01 | | 22 | 2 | 0 | 00 |
| 828770290 | 48020000 | 05.791 | 0064 | | 10 | 009400 | 12 | 03 | 02 | 10 | S-2UN | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | T | 1 | N | 16 | 01 | 04 | 02 | 59 | S | 01 | 01 | 13 | 01 | | 39 | 2 | 0 | 00 |
| 845412010 | 48020000 | 05.791 | 0064 | | 10 | 011400 | 15 | 02 | 06 | 14 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 01 | 02 | 20 | E | 03 | 01 | 13 | 01 | | 40 | 2 | 0 | 00 |
| 831557450Y | 48020000 | 05.861 | 2860 | | 10 | 009400 | 12 | 05 | 27 | 18 | S-2UN | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 01 | S | 1 | E | 03 | 01 | 03 | 06 | 36 | W | 03 | 01 | 05 | 01 | | 61 | 2 | 0 | 00 |
| 836630080 | 48020000 | 05.945 | 0065 | | 10 | 010300 | 13 | 08 | 07 | 17 | S-2UN | 0 | 32 | 77 | 01 | 01 | 01 | 01 | 03 | L | S | S | 16 | 01 | 01 | 02 | 22 | | | | | | | | 1 | 0 | 01 |
| 828708090 | 48020000 | 05.955 | 0065 | | 10 | 009400 | 12 | 02 | 15 | 19 | S-2UN | 0 | 14 | 01 | 05 | 03 | 02 | 01 | 01 | L | 1 | W | 01 | 01 | 01 | 02 | 56 | W | 01 | 01 | 13 | 01 | | 46 | 2 | 0 | 00 |
| 831530360 | 48020000 | 05.955 | 0065 | | 10 | 009400 | 12 | 07 | 10 | 12 | S-2UN | 0 | 14 | 01 | 01 | 01 | 02 | 01 | 01 | R | 1 | E | 01 | 01 | 01 | 02 | 21 | E | 16 | 01 | 13 | 01 | | 19 | 2 | 0 | 00 |
| 832783200 | 48020000 | 05.955 | 0065 | | 10 | 010300 | 13 | 02 | 02 | 15 | S-2UN | 0 | 14 | 04 | 01 | 01 | 01 | 01 | 04 | L | 1 | N | 11 | 01 | 11 | 28 | 17 | W | 16 | 01 | 03 | 01 | | 61 | 2 | 0 | 01 |
| 836841690 | 48020000 | 05.955 | 0065 | | 10 | 010300 | 13 | 09 | 24 | 13 | S-2UN | 0 | 14 | 03 | 01 | 02 | 02 | 01 | 04 | R | 1 | W | 01 | 01 | 03 | 01 | 72 | W | 16 | 01 | 01 | 01 | | 26 | 2 | 0 | 00 |
| 837404230 | 48020000 | 05.955 | 0065 | | 10 | 008800 | 14 | 04 | 08 | 07 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | E | 03 | 01 | 01 | 02 | 37 | E | 01 | 01 | 77 | 01 | | 32 | 2 | 0 | 00 |

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2011 TO 12/31/2015 RAMPS INCL
FROM CO/SEC/SUB: 48 020 000 MP: 000.000 INFL INCL
TO CO/SEC/SUB: 48 020 000 MP: 007.602 CR/OS INCL

| C R A S H | N U M B E R | ROADWY ID CO SE SU | M I L E P O S T | N END AT RD EE S | S TRAF TA ED | ADT VAR EIA RLF AYF | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE H SG | A L C | H AE RV ME FN I | MO AF NC EO UT G | L IC HN TD RL I | W EC AO TN HD ET U | R D S R | R OC AO DN D T | DL OO TC A ST L | R O C D I S | A V C N R | V 1 1 DY E C | VF 1U 1A SC P E | VM 1A 1C E U V | VA 1C 1A T DI RO IN V R1 | V G DE R I R | V 2 M OD DE /S C | V 2N 2N M UL NO CC / | V M VI RO /R | VN 2M TT 1N /1 | VN 2M N GE 2 | N V M 2N RA AG E | # # # V H C S | K L E D | I N J U R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 845542310 | 48020000 | 05.958 0065 | 10 | 011400 | 15 | 03 | 13 | 17 | S-2UN | 0 | 14 | 01 | 01 | 03 | 02 | 10 | 02 | L | 1 | E | 16 | 01 | 01 | 02 | 40 | E | 02 | 01 | 13 | 01 | | 18 | 2 | 0 | 00 |
| 831442380 | 48020000 | 05.959 0065 | 10 | 009400 | 12 | 05 | 23 | 16 | S-2UN | 0 | 14 | 01 | 01 | 03 | 02 | 01 | 02 | L | 1 | S | 01 | 01 | 01 | 02 | 18 | S | 01 | 01 | 13 | 01 | | 53 | 2 | 0 | 02 |
| 845262030 | 48020000 | 05.962 0065 | 10 | 011400 | 15 | 01 | 04 | 14 | S-2UN | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | L | 1 | E | 16 | 01 | 01 | 02 | 62 | E | 16 | 01 | 03 | 01 | | 30 | 2 | 0 | 02 |
| 820005730 | 48020000 | 05.964 0065 | 10 | 009400 | 11 | 03 | 04 | 02 | S-2UN | 0 | 34 | 03 | 05 | 01 | 01 | 01 | 02 | R | S | S | 01 | 01 | 01 | | 00 | | | | | | | | 1 | 0 | 00 |
| 820906390 | 48020000 | 05.964 0065 | 10 | 009400 | 11 | 05 | 06 | 14 | S-2UN | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | R | 1 | S | 01 | 01 | 03 | | 00 | N | 01 | 01 | 01 | 01 | | 54 | 2 | 0 | 01 |
| 831447870Y | 48020000 | 05.964 0065 | 10 | 009400 | 12 | 05 | 22 | 09 | S-2UN | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 03 | T | 1 | W | 00 | 01 | 05 | | 00 | S | 16 | 01 | 13 | 01 | | 71 | 2 | 0 | 00 |
| 831914510 | 48020000 | 05.964 0065 | 10 | 009400 | 12 | 10 | 14 | 19 | S-2UN | 1 | 33 | 77 | 05 | 01 | 01 | 01 | 02 | R | S | S | 03 | 01 | 01 | 13 | 82 | | | | | | | | 1 | 0 | 00 |
| 833367740Y | 48020000 | 05.964 0065 | 10 | 010300 | 13 | 06 | 28 | 02 | S-2UN | 1 | 14 | 01 | 05 | 01 | 01 | 01 | 03 | T | 1 | S | 03 | 01 | 77 | | 00 | S | 01 | 01 | 01 | 02 | | 21 | 2 | 0 | 01 |
| 836530050 | 48020000 | 05.964 0065 | 10 | 010300 | 13 | 09 | 02 | 17 | S-2UN | 0 | 14 | 01 | 01 | 02 | 02 | 01 | 02 | R | 1 | E | 00 | 01 | 01 | | 00 | E | 01 | 01 | 13 | 01 | | 20 | 2 | 0 | 00 |
| 838327920 | 48020000 | 05.964 0065 | 10 | 008800 | 14 | 07 | 19 | 16 | S-2UN | 0 | 14 | 03 | 01 | 02 | 02 | 01 | 02 | T | 1 | W | 16 | 01 | 05 | 06 | 47 | S | 16 | 01 | 13 | 01 | | 62 | 2 | 0 | 04 |
| 845182940 | 48020000 | 05.964 0065 | 10 | 008800 | 14 | 10 | 21 | 07 | S-2UN | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | I | M | N | 20 | 01 | 01 | 02 | 54 | W | 01 | 01 | 01 | 01 | | 19 | 2 | 0 | 00 |
| 848859140 | 48020000 | 05.964 0065 | 10 | 011400 | 15 | 03 | 19 | 17 | S-2UN | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 03 | 03 | 18 | W | 03 | 01 | 01 | 01 | | 55 | 2 | 0 | 00 |
| 848573970 | 48020000 | 05.964 0065 | 10 | 011400 | 15 | 04 | 10 | 00 | S-2UN | 0 | 33 | 77 | 05 | 01 | 01 | 01 | 02 | R | S | W | 01 | 01 | 88 | 02 | 30 | | | | | | | | 1 | 0 | 00 |
| 851807540 | 48020000 | 05.964 0065 | 10 | 011400 | 15 | 09 | 10 | 12 | S-2UN | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | R | 1 | N | 01 | 01 | 01 | 06 | 51 | S | 03 | 01 | 03 | 01 | | 21 | 2 | 0 | 00 |
| 851817450 | 48020000 | 05.964 0065 | 10 | 011400 | 15 | 09 | 10 | 06 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 16 | 01 | 01 | 02 | 16 | S | 03 | 01 | 13 | 01 | | 40 | 2 | 0 | 01 |
| 837401740 | 48020000 | 05.965 0065 | 10 | 008800 | 14 | 01 | 15 | 15 | S-2UN | 0 | 09 | 77 | 01 | 01 | 01 | 01 | 02 | R | S | E | 01 | 01 | 01 | 30 | 20 | | | | | | | | 1 | 0 | 00 |
| 820932210 | 48020000 | 05.973 0065 | 10 | 009400 | 11 | 04 | 06 | 16 | S-2UN | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | R | 2 | W | 01 | 01 | 10 | 06 | 17 | W | 03 | 01 | 01 | 01 | | 49 | 2 | 0 | 02 |
| 851902410 | 48020000 | 06.002 0066 | 10 | 011400 | 15 | 11 | 04 | 04 | S-2UN | 0 | 27 | 77 | 04 | 01 | 01 | 01 | 06 | R | S | E | 01 | 01 | 01 | 02 | 27 | | | | | | | | 1 | 0 | 00 |
| 836577230 | 48020000 | 06.130 2840 | 10 | 010300 | 13 | 08 | 21 | 06 | S-2UN | 0 | 37 | 77 | 05 | 02 | 02 | 01 | 03 | R | S | E | 16 | 01 | 01 | 77 | 45 | | | | | | | | 1 | 0 | 00 |
| 852111670 | 48020000 | 06.130 2840 | 10 | 011400 | 15 | 11 | 17 | 02 | S-2UN | 0 | 32 | 77 | 05 | 02 | 01 | 01 | 01 | R | S | W | 03 | 01 | 01 | | 00 | | | | | | | | 1 | 0 | 00 |
| 833250510 | 48020000 | 06.143 2840 | 10 | 010300 | 13 | 06 | 08 | 06 | S-2UN | 0 | 25 | 77 | 01 | 01 | 01 | 01 | 02 | R | S | E | 01 | 01 | 01 | 30 | 20 | | | | | | | | 1 | 0 | 00 |
| 831931570 | 48020000 | 06.144 2840 | 10 | 009400 | 12 | 09 | 21 | 10 | S-2UN | 0 | 14 | 02 | 01 | 01 | 01 | 01 | 02 | R | 1 | N | 03 | 01 | 01 | 02 | 31 | N | 03 | 01 | 13 | 01 | | 56 | 3 | 0 | 02 |
| 820762180 | 48020000 | 06.145 2840 | 10 | 009400 | 11 | 04 | 16 | 23 | S-2UN | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 02 | R | 2 | E | 01 | 01 | 01 | 02 | 21 | E | 01 | 01 | 14 | 01 | | 37 | 2 | 0 | 01 |
| 845597690 | 48020000 | 06.145 2840 | 10 | 011400 | 15 | 01 | 22 | 18 | S-2UN | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 02 | L | 2 | S | 02 | 01 | 01 | 02 | 44 | S | 01 | 01 | 14 | 01 | | 29 | 2 | 0 | 03 |
| 820750970 | 48020000 | 06.149 2840 | 10 | 009400 | 11 | 03 | 04 | 23 | S-2UN | 3 | 32 | 77 | 05 | 01 | 01 | 01 | 02 | R | S | N | 01 | 01 | 16 | 02 | 22 | | | | | | | | 1 | 0 | 01 |
| 828335460 | 48020000 | 06.149 2840 | 10 | 009400 | 11 | 11 | 16 | 13 | S-2UN | 0 | 14 | 03 | 01 | 02 | 02 | 01 | 02 | S | 1 | E | 03 | 01 | 05 | 02 | 24 | N | 01 | 01 | 13 | 01 | | 61 | 2 | 0 | 01 |
| 828391780 | 48020000 | 06.149 2840 | 10 | 009400 | 11 | 11 | 16 | 06 | S-2UN | 0 | 34 | 88 | 03 | 02 | 01 | 01 | 03 | L | 1 | S | 01 | 01 | 01 | 02 | 50 | | | | | | | | 1 | 0 | 00 |
| 831446460 | 48020000 | 06.149 2840 | 10 | 009400 | 12 | 06 | 16 | 22 | S-2UN | 1 | 11 | 77 | 05 | 01 | 01 | 01 | 02 | R | 1 | S | 03 | 01 | 01 | 01 | 25 | * | 03 | 02 | 04 | 09 | 05 | 48 | 1 | 0 | 01 |
| 851817470 | 48020000 | 06.149 2840 | 10 | 011400 | 15 | 09 | 10 | 12 | S-2UN | 0 | 14 | 02 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 03 | 03 | 62 | S | 16 | 01 | 01 | 01 | | 34 | 2 | 0 | 00 |
| 851700420 | 48020000 | 06.149 2840 | 10 | 011400 | 15 | 10 | 23 | 20 | S-2UN | 0 | 09 | 77 | 05 | 01 | 01 | 01 | 02 | R | S | E | 01 | 01 | 05 | 17 | 30 | | | | | | | | 1 | 0 | 04 |
| 836859230 | 48020000 | 06.149 2840 | 10 | 011400 | 15 | 12 | 08 | 16 | S-2UN | 0 | 14 | 03 | 02 | 01 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 03 | 03 | 95 | E | 16 | 01 | 01 | 01 | | 22 | 2 | 0 | 00 |
| 822679640 | 48020000 | 06.168 2840 | 10 | 007100 | 11 | 07 | 29 | 15 | S-2UN | 0 | 32 | 77 | 01 | 01 | 01 | 01 | 03 | L | S | W | 19 | 01 | 01 | 26 | 36 | | | | | | | | 1 | 0 | 00 |
| 851285660 | 48020000 | 06.400 0068 | 10 | 011400 | 15 | 07 | 02 | 09 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | R | W | 16 | 01 | 01 | 02 | 35 | W | 20 | 01 | 01 | 01 | | 53 | 2 | 0 | 01 |
| 845291770 | 48020000 | 06.438 0068 | 10 | 008800 | 14 | 11 | 24 | 08 | S-2DP | 0 | 14 | 03 | 01 | 01 | 02 | 01 | 02 | L | 1 | S | 01 | 01 | 03 | 03 | 35 | W | 16 | 01 | 01 | 01 | | 40 | 2 | 0 | 02 |
| 845377490 | 48020000 | 06.438 0068 | 10 | 011400 | 15 | 02 | 05 | 15 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 10 | 06 | 16 | W | 02 | 01 | 01 | 01 | | 27 | 2 | 0 | 02 |
| 838328230 | 48020000 | 06.452 0068 | 10 | 008800 | 14 | 08 | 28 | 21 | S-2DP | 0 | 14 | 77 | 05 | 01 | 01 | 01 | 01 | L | S | W | 01 | 01 | 01 | 02 | 19 | | | | | | | | 1 | 0 | 00 |
| 845613480 | 48020000 | 06.670 3204 | 10 | 011400 | 15 | 03 | 23 | 18 | S-2DP | 0 | 32 | 77 | 02 | 02 | 01 | 01 | 03 | R | S | N | 01 | 01 | 01 | 02 | 42 | | | | | | | | 1 | 0 | 00 |

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2011 TO 12/31/2015 RAMPS INCL
FROM CO/SEC/SUB: 48 020 000 MP: 000.000 INFL INCL
TO CO/SEC/SUB: 48 020 000 MP: 007.602 CR/OS INCL

| C R N A U S M H B E R | ROADWYID C S E C T I O N | S E SC UT BI O T | M I L E P O S T | N EN AO RD EE S | S TR AO TA ED | ADT VAR EIA RLF AYF G I E C | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE SG O R Y | A L C | H AE RV ME FN I V | MO AF NC EO UT N L 1 | L IC GO HN TD RL L | W EC AO TN HD IT NN GS | R D U R S R F S | R OC AO DN D T N S | DL OO TC A ST II TO EN | R A D S L N R # | V C 1 DY P E | V 1 1 B SC E DI RO V R1 | VF 1U N T DE R C | VM 1A N E I V R | VA 1C T G M F AA CC 1N R1 | V 1A G DE R | V 2 M OD UL MP AA RO /1 | V 2N 2M M E NR VI CC /R | VN 2M M F CC 1N /1 | VN 2M M F CC 1N /1 | N V M 2N M E RA AG GE 2 | # # # V K I H L J C L U E R S D D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 845603900 | 48020000 | 06.683 | 0067 | 10 | 011400 | 15 | 04 | 08 | 07 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 03 | 01 | 01 | 02 | 52 | S | 01 | 01 | 13 | 01 | 34 | 2 | 0 | 02 |
| 820712800 | 48020000 | 06.689 | 0067 | 10 | 007100 | 11 | 02 | 28 | 20 | S-2DP | 0 | 14 | 05 | 05 | 01 | 01 | 01 | 02 | L | L | N | 00 | 01 | 00 | | 00 | S | 01 | 01 | 13 | 01 | 35 | 2 | 0 | 00 |
| 837870240 | 48020000 | 06.689 | 0067 | 10 | 008800 | 14 | 04 | 30 | 11 | S-2DP | 0 | 14 | 03 | 01 | 02 | 02 | 01 | 02 | L | 1 | S | 01 | 01 | 01 | 03 | 20 | W | 03 | 01 | 01 | 01 | 72 | 2 | 0 | 03 |
| 851282900 | 48020000 | 06.689 | 0067 | 10 | 011400 | 15 | 09 | 06 | 08 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | R | 1 | W | 02 | 01 | 01 | 11 | 52 | N | 01 | 01 | 01 | 01 | 44 | 2 | 0 | 04 |
| 851752990 | 48020000 | 06.689 | 0067 | 10 | 011400 | 15 | 09 | 15 | 10 | S-2DP | 0 | 14 | 77 | 01 | 01 | 01 | 01 | 01 | R | 1 | N | 03 | 01 | 01 | 11 | 64 | E | 16 | 01 | 01 | 01 | 74 | 2 | 0 | 03 |
| 838339780 | 48020000 | 06.693 | 0067 | 10 | 008900 | 15 | 10 | 05 | 19 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 02 | L | 1 | W | 01 | 03 | 14 | 02 | 47 | W | 01 | 01 | 13 | 01 | 22 | 2 | 0 | 01 |
| 820943760 | 48020000 | 06.717 | 0067 | 10 | 007100 | 11 | 06 | 06 | 13 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 01 | M | M | N | 01 | 01 | 10 | 06 | 30 | N | 12 | 01 | 11 | 15 | 61 | 2 | 0 | 02 |
| 836530020 | 48020000 | 06.727 | 0067 | 10 | 007700 | 13 | 08 | 27 | 20 | S-2DP | 0 | 14 | 01 | 04 | 01 | 01 | 01 | 03 | L | 1 | W | 03 | 01 | 01 | 02 | 34 | W | 03 | 01 | 13 | 01 | 18 | 2 | 0 | 00 |
| 851229140 | 48020000 | 06.727 | 0067 | 10 | 008900 | 15 | 05 | 21 | 01 | S-2DP | 0 | 34 | 77 | 05 | 01 | 01 | 01 | 03 | L | S | N | 16 | 01 | 16 | 26 | 66 | N | 77 | 01 | 08 | | 00 | 2 | 0 | 01 |
| 845597650 | 48020000 | 06.765 | 0067 | 10 | 008900 | 15 | 01 | 21 | 17 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 01 | R | 2 | N | 01 | 01 | 01 | 02 | 54 | N | 01 | 01 | 01 | 01 | 51 | 2 | 0 | 03 |
| 820720810 | 48020000 | 06.784 | 0067 | 10 | 007100 | 11 | 03 | 09 | 16 | S-2DP | 0 | 14 | 03 | 01 | 03 | 02 | 01 | 01 | R | 1 | N | 03 | 01 | 10 | 06 | 34 | N | 02 | 01 | 01 | 01 | 70 | 2 | 0 | 01 |
| 819530080 | 48020000 | 06.878 | 3192 | 10 | 007100 | 11 | 05 | 20 | 06 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | L | 1 | S | 01 | 01 | 01 | 02 | 22 | S | 01 | 01 | 13 | 01 | 55 | 2 | 0 | 01 |
| 851123490 | 48020000 | 06.926 | 3192 | 10 | 008900 | 15 | 05 | 06 | 17 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | N | 01 | 01 | 01 | 02 | 27 | N | 01 | 01 | 14 | 01 | 19 | 3 | 0 | 03 |
| 836841750 | 48020000 | 07.163 | 3437 | 10 | 007700 | 13 | 09 | 27 | 18 | S-2UN | 0 | 25 | 77 | 01 | 01 | 01 | 01 | 01 | R | S | N | 03 | 01 | 01 | 01 | 65 | | | | | | | 1 | 0 | 01 |
| 845597670 | 48020000 | 07.163 | 3437 | 10 | 008900 | 15 | 01 | 22 | 15 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | L | 1 | S | 17 | 01 | 01 | 02 | 55 | S | 08 | 12 | 13 | 01 | 55 | 2 | 0 | 03 |
| 852334420 | 48020000 | 07.192 | 3437 | 10 | 008900 | 15 | 12 | 20 | 02 | S-2UN | 1 | 01 | 77 | 04 | 01 | 01 | 01 | 01 | L | S | N | 16 | 01 | 01 | 02 | 32 | | | | | | | 1 | 0 | 01 |
| 852008330 | 48020000 | 07.220 | 2700 | 10 | 008900 | 15 | 09 | 29 | 07 | S-2UN | 0 | 14 | 04 | 01 | 03 | 02 | 01 | 02 | S | 1 | W | 20 | 01 | 17 | 03 | 45 | W | 01 | 01 | 01 | 01 | 37 | 2 | 0 | 00 |
| 837841410 | 48020000 | 07.234 | 2700 | 10 | 007700 | 14 | 05 | 18 | 02 | S-2UN | 0 | 38 | 77 | 04 | 01 | 01 | 01 | 01 | L | S | S | 16 | 01 | 01 | | 00 | | | | | | | 1 | 0 | 00 |
| 836424580 | 48020000 | 07.239 | 2700 | 10 | 007700 | 14 | 09 | 30 | 06 | S-2UN | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 04 | L | 1 | S | 01 | 01 | 11 | 15 | 35 | S | 20 | 01 | 14 | 01 | 44 | 2 | 0 | 01 |
| 845183020 | 48020000 | 07.239 | 2700 | 10 | 007700 | 14 | 10 | 26 | 12 | S-2UN | 0 | 38 | 77 | 01 | 01 | 01 | 01 | 03 | L | S | N | 01 | 01 | 01 | 77 | 74 | | | | | | | 1 | 0 | 01 |
| 828937560 | 48020000 | 07.258 | 2700 | 10 | 007800 | 12 | 03 | 23 | 18 | S-2UN | 0 | 14 | 01 | 02 | 01 | 01 | 01 | 01 | R | 1 | S | 16 | 01 | 01 | 02 | 22 | S | 01 | 01 | 13 | 01 | 30 | 2 | 0 | 00 |
| 828432320 | 48020000 | 07.302 | 2700 | 10 | 007100 | 11 | 10 | 30 | 10 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | R | 1 | S | 03 | 01 | 01 | 02 | 72 | S | 16 | 01 | 13 | 01 | 36 | 2 | 0 | 02 |
| 837006530 | 48020000 | 07.507 | 0069 | 10 | 007700 | 13 | 10 | 28 | 14 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | L | 1 | N | 03 | 01 | 01 | 02 | 32 | N | 01 | 01 | 13 | 01 | 18 | 2 | 0 | 00 |
| 848858000 | 48020000 | 07.555 | 0982 | 10 | 008900 | 15 | 05 | 30 | 03 | S-2DR | 0 | 33 | 77 | 05 | 02 | 01 | 01 | 03 | L | S | W | 03 | 01 | 16 | 02 | 20 | | | | | | | 1 | 0 | 00 |
| 851922970 | 48020000 | 07.564 | 0982 | 10 | 008900 | 15 | 10 | 23 | 21 | S-2DR | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 04 | L | 1 | W | 01 | 01 | 03 | | 00 | S | 01 | 01 | 03 | 01 | 24 | 2 | 0 | 00 |
| 852191000 | 48020000 | 07.583 | 0069 | 10 | 008900 | 15 | 12 | 22 | 18 | S-2DR | 0 | 14 | 04 | 02 | 03 | 02 | 01 | 02 | R | 1 | S | 16 | 01 | 01 | 02 | 24 | S | 01 | 01 | 13 | 01 | 36 | 2 | 0 | 00 |
| 851485800 | 48020000 | 07.593 | 0069 | 10 | 008900 | 15 | 08 | 12 | 15 | S-2DR | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | I | M | W | 16 | 01 | 03 | 13 | 26 | N | 01 | 01 | 01 | 01 | 16 | 2 | 0 | 03 |
| 828306690 | 48020000 | 07.602 | 0069 | 10 | 007100 | 11 | 10 | 18 | 16 | S-2DR | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 01 | 01 | 78 | W | 11 | 01 | 01 | 01 | 23 | 2 | 0 | 01 |
| 828432690 | 48020000 | 07.602 | 0069 | 10 | 007100 | 11 | 11 | 28 | 13 | S-2DR | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | R | 1 | W | 03 | 01 | 01 | 03 | 20 | N | 01 | 01 | 01 | 01 | 47 | 2 | 0 | 02 |
| 831788870 | 48020000 | 07.602 | 0069 | 10 | 007800 | 12 | 07 | 24 | 15 | S-2DR | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 01 | 03 | 64 | N | 01 | 01 | 01 | 01 | 31 | 2 | 0 | 02 |
| 832070100 | 48020000 | 07.602 | 0069 | 10 | 007800 | 12 | 09 | 26 | 09 | S-2DR | 0 | 14 | 03 | 01 | 01 | 02 | 01 | 02 | L | 1 | W | 16 | 01 | 01 | 03 | 49 | N | 16 | 01 | 01 | 01 | 41 | 2 | 0 | 00 |
| 833036540 | 48020000 | 07.602 | 0069 | 10 | 007700 | 13 | 04 | 10 | 15 | S-2DR | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 03 | 03 | 17 | N | 03 | 01 | 01 | 01 | 58 | 2 | 0 | 00 |
| 837392620 | 48020000 | 07.602 | 0069 | 10 | 007700 | 14 | 02 | 18 | 19 | S-2DR | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | R | 1 | E | 16 | 01 | 01 | 03 | 17 | N | 01 | 01 | 01 | 01 | 47 | 2 | 0 | 01 |
| 837925040 | 48020000 | 07.602 | 0069 | 10 | 007700 | 14 | 05 | 04 | 10 | S-2DR | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 03 | 01 | 01 | 03 | 61 | W | 16 | 01 | 03 | 01 | 53 | 3 | 0 | 01 |
| 844880240 | 48020000 | 07.602 | 0069 | 10 | 007700 | 14 | 08 | 02 | 19 | S-2DR | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | R | 1 | E | 01 | 01 | 01 | 03 | 67 | N | 01 | 01 | 01 | 01 | 22 | 2 | 0 | 00 |
| 832959180 | Y48205000 | 12.026 | 0067 | 173 | 014500 | 13 | 04 | 29 | 07 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | 1 | N | 01 | 01 | 01 | 02 | 28 | N | 03 | 01 | 13 | 01 | 59 | 2 | 0 | 00 |

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2011 TO 12/31/2015 RAMPS INCL
FROM CO/SEC/SUB: 48 020 000 MP: 000.000 INFL INCL
TO CO/SEC/SUB: 48 020 000 MP: 007.602 CR/OS INCL

| C R N A U S M H B E R | ROADWYID C S E C T I O N | S E C U T B I N | M I L E P O S T | N E A R O A D S T R E E T | S T A T E D | ADT VAR EIA RLF AYF G I E C | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE O Y | A L C | H AE RV ME FN EO UT | MO AF N NC TD RL | L IC GO HN IT L | W EC AO TN ET NN GS | R D S R F S | R OC AO DN T N | DL OO TC A ST II EN | R O A D | A C | V 1 N | V 1 | VF 1U SC P E | VM 1A N U E | VA 1C T RO IN V R1 | V 1A G DI DE R I | V 2 M OD DE | V 2N 2N M UL NO /S C | V M F CC RO /R | VN 2M MP NR VI TT 1N /1 | VN 2M AA CC | N V M C E 2 | # RA AG GE E | # H C L S | # K L E D | # I N U R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 833136740Y | 48205000 | 12.026 | 0067 | 173 | 014500 | 13 | 05 | 30 | 11 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 03 | R | 1 | E | 01 | 01 | 01 | 02 | 24 | E | 20 | 01 | 13 | 01 | | 42 | 2 | 0 | 01 |
| 848952430Y | 48205000 | 12.026 | 0067 | 173 | 014500 | 15 | 04 | 17 | 22 | S-2DP | 0 | 14 | 01 | 05 | 02 | 01 | 01 | 03 | R | 1 | E | 16 | 01 | 01 | 02 | 22 | E | 01 | 03 | 13 | 01 | | 25 | 2 | 0 | 02 |
| 831733780Y | 48205000 | 12.052 | 0067 | 173 | 014000 | 12 | 08 | 06 | 08 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | 1 | N | 03 | 01 | 01 | 02 | 19 | N | 01 | 01 | 13 | 01 | | 48 | 3 | 0 | 00 |
| 851548500 | 48205000 | 12.061 | 0067 | 173 | 014500 | 15 | 07 | 20 | 10 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | E | 01 | 01 | 01 | 02 | 20 | E | 16 | 01 | 14 | 01 | | 30 | 2 | 0 | 00 |
| 851485900 | 48205000 | 12.061 | 0067 | 173 | 014500 | 15 | 08 | 17 | 19 | S-2DP | 0 | 11 | 77 | 05 | 01 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 01 | 01 | 65 | * | 03 | 77 | 01 | 09 | 03 | 41 | 1 | 0 | 01 |
| 832394870 | 48205000 | 12.062 | 0067 | 173 | 014000 | 12 | 10 | 30 | 19 | S-2DP | 0 | 14 | 01 | 04 | 01 | 01 | 01 | 02 | R | 1 | 0 | 00 | 01 | 00 | | 00 | E | 01 | 01 | 13 | 01 | | 59 | 2 | 0 | 00 |
| 828335570 | 48205000 | 12.064 | 0067 | 173 | 012500 | 11 | 11 | 23 | 16 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 00 | 01 | 01 | | 00 | E | 01 | 01 | 03 | 01 | | 87 | 2 | 0 | 00 |
| 828708140 | 48205000 | 12.064 | 0067 | 173 | 014000 | 12 | 02 | 18 | 10 | S-2DP | 0 | 14 | 03 | 01 | 03 | 02 | 01 | 02 | L | 1 | W | 01 | 01 | 01 | 11 | 55 | S | 01 | 01 | 13 | 01 | | 59 | 2 | 0 | 00 |
| 832959000 | 48205000 | 12.064 | 0067 | 173 | 014500 | 13 | 04 | 13 | 20 | S-2DP | 0 | 39 | 77 | 05 | 02 | 01 | 01 | 02 | L | 1 | N | 00 | 01 | 03 | | 00 | S | 11 | 01 | 01 | 01 | | 28 | 2 | 0 | 01 |
| 836529590 | 48205000 | 12.064 | 0067 | 173 | 014500 | 13 | 07 | 31 | 11 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | R | 1 | S | 01 | 01 | 03 | 03 | 32 | N | 03 | 01 | 01 | 01 | | 55 | 2 | 0 | 01 |
| 836857960 | 48205000 | 12.064 | 0067 | 173 | 014500 | 13 | 12 | 26 | 14 | S-2DP | 0 | 14 | 04 | 01 | 02 | 01 | 01 | 02 | I | M | E | 01 | 01 | 03 | 25 | 34 | E | 02 | 01 | 03 | 01 | | 33 | 2 | 0 | 00 |
| 837721920 | 48205000 | 12.064 | 0067 | 173 | 012500 | 14 | 04 | 12 | 12 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | R | 1 | W | 01 | 01 | 03 | 03 | 63 | E | 01 | 01 | 01 | 01 | | 23 | 3 | 0 | 00 |
| 844901030 | 48205000 | 12.064 | 0067 | 173 | 012500 | 14 | 09 | 01 | 20 | S-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | L | 1 | E | 16 | 01 | 03 | 03 | 35 | W | 01 | 01 | 01 | 01 | | 31 | 2 | 0 | 00 |
| 845657810 | 48205000 | 12.064 | 0067 | 173 | 014500 | 15 | 02 | 05 | 15 | S-2DP | 0 | 14 | 77 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 05 | | 00 | W | 11 | 01 | 13 | 01 | | 63 | 2 | 0 | 02 |
| 831924470 | 48205000 | 12.068 | 0067 | 173 | 014000 | 12 | 09 | 07 | 20 | S-2DP | 0 | 24 | 77 | 05 | 01 | 01 | 01 | 02 | L | S | E | 11 | 01 | 05 | 02 | 70 | | | | | | | | 1 | 0 | 01 |
| 844902530 | 48205000 | 12.068 | 0067 | 173 | 014600 | 14 | 10 | 07 | 09 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 03 | 01 | 01 | 02 | 58 | S | 01 | 01 | 13 | 01 | | 53 | 3 | 0 | 03 |
| 836588750 | 48205000 | 12.070 | 0067 | 173 | 015400 | 13 | 09 | 12 | 19 | S-2DP | 0 | 14 | 01 | 04 | 01 | 01 | 01 | 02 | L | L | W | 01 | 01 | 01 | 02 | 54 | W | 16 | 01 | 13 | 01 | | 37 | 2 | 0 | 00 |
| 845672430Y | 48205000 | 12.072 | 0067 | 173 | 015300 | 15 | 01 | 30 | 20 | S-2DP | 0 | 14 | 03 | 04 | 01 | 01 | 01 | 04 | L | 1 | S | 01 | 01 | 03 | 03 | 24 | S | 01 | 01 | 01 | 01 | | 26 | 2 | 0 | 00 |
| 831998260Y | 48205000 | 12.076 | 0067 | 173 | 014000 | 12 | 11 | 01 | 16 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | L | 1 | W | 01 | 01 | 01 | 02 | 18 | W | 16 | 01 | 13 | 01 | | 44 | 3 | 0 | 00 |
| 848573530Y | 48205000 | 12.079 | 0067 | 173 | 015300 | 15 | 04 | 23 | 07 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | L | 1 | W | 01 | 01 | 01 | 02 | 30 | W | 01 | 01 | 13 | 01 | | 31 | 2 | 0 | 00 |
| 819934420Y | 48205000 | 12.083 | 0067 | 173 | 012500 | 11 | 01 | 17 | 12 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | M | T | E | 01 | 01 | 01 | 03 | 22 | S | 03 | 01 | 01 | 01 | | 46 | 2 | 0 | 00 |
| 831914430Y | 48205000 | 12.083 | 0067 | 173 | 014000 | 12 | 10 | 11 | 15 | S-2DP | 2 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | L | 1 | W | 01 | 01 | 01 | 02 | 36 | W | 01 | 01 | 13 | 01 | | 35 | 2 | 0 | 01 |
| 851925650Y | 48205000 | 12.083 | 0067 | 173 | 015300 | 15 | 11 | 05 | 17 | S-2DP | 0 | 14 | 01 | 02 | 02 | 01 | 01 | 03 | L | 1 | S | 01 | 01 | 01 | 02 | 58 | S | 01 | 01 | 13 | 01 | | 77 | 3 | 0 | 01 |

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2011 TO 12/31/2015 RAMPS INCL
FROM CO/SEC/SUB: 48 020 000 MP: 000.000 INFL INCL
TO CO/SEC/SUB: 48 020 000 MP: 007.602 CR/OS INCL

| FOR | FATAL CRASH STATISTICS | | | INJURY CRASH STATS | | PROPERTY DAMAGE ONLY | TOTALS | | | INFLUENCE CRASHES OCCURRING ON INTERSECTING RDWYS | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| YEAR | CRASHES | FATALITIES | INJURIES | CRASHES | INJURIES | CRASHES | CRASHES | FATALITIES | INJURIES | AT INT. | INFL AREA |
| 2011 | 0 | 0 | 0 | 29 | 49 | 14 | 43 | 0 | 49 | 5 | 4 |
| 2012 | 2 | 2 | 0 | 24 | 34 | 18 | 44 | 2 | 34 | 6 | 6 |
| 2013 | 1 | 1 | 2 | 20 | 30 | 26 | 47 | 1 | 32 | 8 | 4 |
| 2014 | 0 | 0 | 0 | 19 | 40 | 13 | 32 | 0 | 40 | 5 | 0 |
| 2015 | 0 | 0 | 0 | 42 | 88 | 30 | 72 | 0 | 88 | 10 | 4 |
| TOTAL | 3 | 3 | 2 | 134 | 241 | 101 | 238 | 3 | 243 | 34 | 18 |

N O T I C E: THE INFORMATION CONTAINED IN THIS DOCUMENT (REPORT, SCHEDULE, LIST, OR DATA) HAS BEEN COMPILED FROM INFORMATION COLLECTED FOR THE PURPOSE OF IDENTIFYING, EVALUATING, OR PLANNING SAFETY ENHANCEMENTS. THIS PRODUCT IDENTIFIES INFORMATION USED FOR THE PURPOSE OF DEVELOPING HIGHWAY SAFETY CONSTRUCTION IMPROVEMENT PROJECTS WHICH MAY BE IMPLEMENTED UTILIZING FEDERAL-AID HIGHWAY FUNDS. ANY DOCUMENT DISPLAYING THIS NOTICE SHALL BE USED ONLY FOR THOSE PURPOSES DEEMED APPROPRIATE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. SEE TITLE 23, UNITED STATES CODE, SECTION 409.

*** REPORT TOTALS ***

CUMULATIVE TOTALS FOR ALL LOCATIONS SUBMITTED - OVERLAPPING OR INTERSECTING LOCATIONS MAY RESULT IN CRASHES COUNTED MORE THAN ONCE

| FOR | FATAL CRASH STATISTICS | | | INJURY CRASH STATS | | PROPERTY DAMAGE ONLY | TOTALS | | | INFLUENCE CRASHES OCCURRING ON INTERSECTING RDWYS | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| YEAR | CRASHES | FATALITIES | INJURIES | CRASHES | INJURIES | CRASHES | CRASHES | FATALITIES | INJURIES | AT INT. | INFL AREA |
| 2011 | 0 | 0 | 0 | 29 | 49 | 14 | 43 | 0 | 49 | 5 | 4 |
| 2012 | 2 | 2 | 0 | 24 | 34 | 18 | 44 | 2 | 34 | 6 | 6 |
| 2013 | 1 | 1 | 2 | 20 | 30 | 26 | 47 | 1 | 32 | 8 | 4 |
| 2014 | 0 | 0 | 0 | 19 | 40 | 13 | 32 | 0 | 40 | 5 | 0 |
| 2015 | 0 | 0 | 0 | 42 | 88 | 30 | 72 | 0 | 88 | 10 | 4 |
| TOTAL | 3 | 3 | 2 | 134 | 241 | 101 | 238 | 3 | 243 | 34 | 18 |

N O T I C E: THE INFORMATION CONTAINED IN THIS DOCUMENT (REPORT, SCHEDULE, LIST, OR DATA) HAS BEEN COMPILED FROM INFORMATION COLLECTED FOR THE PURPOSE OF IDENTIFYING, EVALUATING, OR PLANNING SAFETY ENHANCEMENTS. THIS PRODUCT IDENTIFIES INFORMATION USED FOR THE PURPOSE OF DEVELOPING HIGHWAY SAFETY CONSTRUCTION IMPROVEMENT PROJECTS WHICH MAY BE IMPLEMENTED UTILIZING FEDERAL-AID HIGHWAY FUNDS. ANY DOCUMENT DISPLAYING THIS NOTICE SHALL BE USED ONLY FOR THOSE PURPOSES DEEMED APPROPRIATE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. SEE TITLE 23, UNITED STATES CODE, SECTION 409.

Date: 4/5/2019 3:43:53 PM

# FDOT Long Range Estimating System - Production

## R3: Project Details by Sequence Report

**Project:** 437764-1-52-01 **Letting Date:** 05/2022

**Description:** SR 10A (US 90) FROM SR 10 (US 90A) 9MI TO W OF SR 297 PINE FOREST RD

**District:** 03 **County:** 48 ESCAMBIA **Market Area:** 01 **Units:** English
**Contract Class:** 7 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 7.602 MI

**Project Manager:** JORDAN BURNETT

**Version 6-P Project Grand Total** **$8,146,324.46**
**Description:** SR 10A (US 90) FROM SR 10 (US 90A) TO W OF SR 297 (PINE FOREST RD)- 2019 6MU = 2/13/2019 = PR

**Sequence:** 1 RSD - Resurfacing, Divided **Net Length:** 0.180 MI
950 LF

**Description:** Section 48020000, CMP 0.000-0.180, M/R 2-12' lanes, 14' outside paved Shld Right, 2' C&G Left, plus all incidentals.

**Special Conditions:** Lighting component is to light existing pedestrian crossings at SR 173/Blue Angel Pkwy.

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**ROADWAY COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 12.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 140 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 2,534.40 | SY | $2.55 | $6,462.72 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 209.09 | TN | $120.00 | $25,090.80 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 177.41 | TN | $135.00 | $23,950.35 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 120-6 | EMBANKMENT | 273.00 | CY | $10.00 | $2,730.00 |
| 286-1 | TURNOUT CONSTRUCT/DRIVEWAY BASE-OPTION | 751.00 | SY | $33.67 | $25,286.17 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 416.00 | TN | $120.00 | $49,920.00 |
| | **Comment:** Overbuild for cross slope correction (4% of entire mainline SP)+62 TN for turnout improvement | | | | |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 53.00 | TN | $135.00 | $7,155.00 |
| | **Comment:** Turnout improvement | | | | |
| 339-1 | MISCELLANEOUS ASPHALT | 238.50 | TN | $248.65 | $59,303.02 |

| | | | | |
|---|---|---|---|---|
| | PAVEMENT | | | |
| | **Comment:** 2" thick with spread rate of 100 lb/sy-in. | | | |
| 536-1-1 | GUARDRAIL- ROADWAY, GEN TL-3 | 2,385.00 LF | $19.85 | $47,342.25 |
| | **Comment:** Replacing guardrail at Bridlewood Rd, Eight Mile Creek Brigde, and Eleven Mile Creek Bridge | | | |
| 536-8-13 | APPROACH TRANS CONN TO RIGID BA, F&I, 3 | 8.00 EA | $2,772.18 | $22,177.44 |
| 536-73 | GUARDRAIL REMOVAL | 2,385.00 LF | $2.50 | $5,962.50 |
| 536-85-22 | GUARDRAIL END TREA- FLARED APP TERM | 10.00 EA | $2,585.25 | $25,852.50 |
| 701-17-101 | PROFILED THERMOPLAST,STD, WHITE,SOLID,6" | 15.09 GM | $6,170.39 | $93,111.19 |
| 710-90 | PAINTED PAVEMENT MARKINGS, FINAL SURFACE | 1.00 LS | $80,000.00 | $80,000.00 |
| 713-103-101 | PERMANENT TAPE, WHITE,SOLID,6" CONC BR | 0.14 GM | $27,912.94 | $3,907.81 |
| 713-103-201 | PERMANENT TAPE, YELLOW,SOLID,6" CONC BR | 0.14 GM | $27,470.22 | $3,845.83 |

**Turnouts/Crossovers Subcomponent**

| Description | Value |
|---|---|
| Asphalt Adjustment | 0.00 |
| Milling Code | Y |
| Friction Course Code | Y |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 24.00 | EA | $4.49 | $107.76 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.36 | GM | $990.84 | $356.70 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.36 | GM | $4,262.80 | $1,534.61 |
| | **Roadway Component Total** | | | | $484,096.66 |

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**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 0.00 / 18.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 0.00 / 2.67 |
| Paved Outside Shoulder Width L/R | 0.00 / 14.00 |
| Structural Spread Rate | 0 |

| | |
|---|---|
| Friction Course Spread Rate | 140 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 1,478.40 | SY | $3.05 | $4,509.12 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 103.49 | TN | $135.00 | $13,971.15 |
| 570-1-2 | PERFORMANCE TURF, SOD | 281.95 | SY | $3.56 | $1,003.74 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 162-1-11 | PREPARED SOIL LAYER, FINISH SOIL, 6" | 24,392.96 | SY | $3.08 | $75,130.32 |
| | **Comment:** For entire project length | | | | |
| 522-2 | CONCRETE SIDEWALK AND DRIVEWAYS, 6" | 25.00 | SY | $65.71 | $1,642.75 |
| | **Comment:** ADA Improvement at Blue Angel Pkwy | | | | |
| 527-2 | DETECTABLE WARNINGS | 24.00 | SF | $28.63 | $687.12 |
| | **Comment:** ADA Improvement at Blue Angel Pkwy | | | | |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-10-3 | SEDIMENT BARRIER | 15,000.00 | LF | $3.03 | $45,450.00 |
| 107-1 | LITTER REMOVAL | 21.04 | AC | $39.13 | $823.30 |
| 107-2 | MOWING | 21.04 | AC | $85.83 | $1,805.86 |
| | **Shoulder Component Total** | | | | $145,023.36 |

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**DRAINAGE COMPONENT**

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 400-1-2 | CONC CLASS I, ENDWALLS | 6.24 | CY | $1,600.00 | $9,984.00 |
| 425-5 | MANHOLE, ADJUST | 3.00 | EA | $1,121.37 | $3,364.11 |
| 425-6 | VALVE BOXES, ADJUST | 4.00 | EA | $707.29 | $2,829.16 |
| 430-174-118 | PIPE CULV, OPT MATL, ROUND,18"SD | 368.00 | LF | $78.67 | $28,950.56 |
| 430-984-125 | MITERED END SECT, OPTIONAL RD, 18" SD | 115.00 | EA | $1,382.51 | $158,988.65 |
| 524-1-2 | CONCRETE DITCH PAVT, NR, 4" | 230.00 | SY | $70.23 | $16,152.90 |
| | **Comment:** Add 200 LF | | | | |
| 570-1-2 | PERFORMANCE TURF, SOD | 1,240.00 | SY | $3.56 | $4,414.40 |
| | **Drainage Component Total** | | | | $224,683.78 |

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**SIGNING COMPONENT**

**Pay Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 700-1-11 | SINGLE POST SIGN, F&I GM, <12 SF | 3.00 AS | $343.43 | $1,030.29 |
| 700-1-60 | SINGLE POST SIGN, REMOVE | 3.00 AS | $35.32 | $105.96 |
| | **Signing Component Total** | | | $1,136.25 |

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**SIGNALIZATIONS COMPONENT**

**Signalization 1**

| Description | Value |
|---|---|
| Type | 2 Lane Mast Arm |
| Multiplier | 1 |
| Description | Blue Angel Pwky Pedestrian Improvements and Loops |

**Pay Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 630-2-11 | CONDUIT, F& I, OPEN TRENCH | 236.00 LF | $7.62 | $1,798.32 |
| 630-2-12 | CONDUIT, F& I, DIRECTIONAL BORE | 346.00 LF | $19.51 | $6,750.46 |
| 660-2-106 | LOOP ASSEMBLY, F&I, TYPE F | 4.00 AS | $833.91 | $3,335.64 |

**X-Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 632-7-1 | SIGNAL CABLE- NEW OR RECO, FUR & INSTALL | 1.00 PI | $5,439.82 | $5,439.82 |
| 635-2-11 | PULL & SPLICE BOX, F&I, 13" x 24" | 1.00 EA | $664.80 | $664.80 |
| 646-1-11 | ALUMINUM SIGNALS POLE, PEDESTAL | 1.00 EA | $919.58 | $919.58 |
| 653-1-12 | PEDESTRIAN SIGNAL, F&I LED COUNT, 2 WAYS | 1.00 AS | $1,294.38 | $1,294.38 |
| 660-2-101 | LOOP ASSEMBLY- F&I, TYPE A | 2.00 AS | $623.47 | $1,246.94 |
| 660-2-102 | LOOP ASSEMBLY, F&I, TYPE B | 4.00 AS | $553.60 | $2,214.40 |
| 665-1-11 | PEDESTRIAN DETECTOR, F&I, STANDARD | 2.00 EA | $175.27 | $350.54 |

**Signalization 2**

| Description | Value |
|---|---|
| Type | 2 Lane Mast Arm |
| Multiplier | 1 |
| Description | Loops at Beulah Road |

**Pay Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 630-2-11 | CONDUIT, F& I, OPEN TRENCH | 196.00 LF | $7.62 | $1,493.52 |
| 630-2-12 | CONDUIT, F& I, DIRECTIONAL BORE | 196.00 LF | $19.51 | $3,823.96 |
| 660-2-106 | LOOP ASSEMBLY, F&I, TYPE F | 4.00 AS | $833.91 | $3,335.64 |

**X-Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 660-2-101 | LOOP ASSEMBLY- F&I, TYPE A | 2.00 AS | $623.47 | $1,246.94 |
| 660-2-102 | LOOP ASSEMBLY, F&I, TYPE B | 4.00 AS | $553.60 | $2,214.40 |
| | **Signalizations Component Total** | | | $36,129.34 |

## LIGHTING COMPONENT

**Conventional Lighting Subcomponent**

| Description | Value |
|---|---|
| Spacing | MIN |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 630-2-11 | CONDUIT, F& I, OPEN TRENCH | 200.00 | LF | $7.62 | $1,524.00 |
| 630-2-12 | CONDUIT, F& I, DIRECTIONAL BORE | 500.00 | LF | $19.51 | $9,755.00 |
| 635-2-11 | PULL & SPLICE BOX, F&I, 13" x 24" | 12.00 | EA | $664.80 | $7,977.60 |
| 715-1-13 | LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2 | 1,400.00 | LF | $2.42 | $3,388.00 |
| 715-4-13 | LIGHT POLE COMPLETE, F&I-STD, 40' | 12.00 | EA | $6,237.78 | $74,853.36 |
| | **Subcomponent Total** | | | | $97,497.96 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 715-7-12 | LOAD CENTER, F&I, PRIMARY VOLTAGE | 1.00 | EA | $12,066.90 | $12,066.90 |
| | **Lighting Component Total** | | | | $109,564.86 |

## BRIDGES COMPONENT

**Bridge 480003**

| Description | Value |
|---|---|
| Estimate Type | SF Estimate |
| Primary Estimate | YES |
| Type | Misc/Rehab |
| Structure No. | 480003 |
| Description | ASPHALT OVERLAY. PER HUNTER HAMBRIGHT ON BEHALF OF STRUCTURES MAINT: CLEAN JOINTS AND INSTALL POLYMER NOSING AND POURABLE JOINTS AT ALL LOCATIONS. |

**Bridge X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 458-1-21 | BRIDGE DECK EXPANSION JNT, REHAB,POURED | 230.00 | LF | $102.66 | $23,611.80 |
| 458-2 | POLYMER NOSING FOR BRIDGE DECK EXPANSION | 52.70 | CF | $780.12 | $41,112.32 |
| | **Comment:** 230' of joints from insp. report. 6" polymer each side of joint per standard detail. Assumed depth to be the total depth of resurfacing. | | | | |

| | | |
|---|---|---|
| | **Bridge 480003 Total** | $64,724.12 |

**Bridge 480190**

| **Description** | **Value** |
|---|---|
| Estimate Type | SF Estimate |
| Primary Estimate | YES |
| Type | Misc/Rehab |
| Structure No. | 480190 |
| Description | CONCRETE DECK. PER HUNTER HAMBRIGHT ON BEHALF OF STRUCTURES MAINT: INSTALL POURABLE JOINTS AT ROADWAY TO APPROACH SLAB INTERFACES. |

**Bridge X-Items**

| **Pay item** | **Description** | **Quantity Unit** | **Unit Price** | **Extended Amount** |
|---|---|---|---|---|
| 458-1-21 | BRIDGE DECK EXPANSION JNT, REHAB,POURED | 80.00 LF | $102.66 | $8,212.80 |
| | **Bridge 480190 Total** | | | $8,212.80 |
| | **Bridges Component Total** | | | $72,936.92 |

**Sequence 1 Total** $1,073,571.17

**Sequence:** 2 RSD - Resurfacing, Divided **Net Length:** 0.171 MI
903 LF

**Description:** Section 48020000, CMP 0.180-0.351, M/R 2-12' lanes, 14' outside paved Shld Right, 4' outside paved Shld Left.

## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 2.67 / 2.67 |
| Incidental Clearing and Grubbing Area | 0.00 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 0.11 | AC | $20,000.00 | $2,200.00 |
| | **Earthwork Component Total** | | | | $2,200.00 |

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 12.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 140 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 2,407.68 | SY | $2.55 | $6,139.58 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 198.63 | TN | $120.00 | $23,835.60 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 168.54 | TN | $135.00 | $22,752.90 |

**Turnouts/Crossovers Subcomponent**

| Description | Value |
|---|---|
| Asphalt Adjustment | 0.00 |
| Milling Code | Y |
| Friction Course Code | N |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 23.00 EA | $4.49 | $103.27 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.34 GM | $990.84 | $336.89 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.34 GM | $4,262.80 | $1,449.35 |
| | **Roadway Component Total** | | | $54,617.59 |

**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 8.00 / 17.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 4.00 / 14.00 |
| Structural Spread Rate | 0 |
| Friction Course Spread Rate | 140 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 1,805.76 | SY | $3.05 | $5,507.57 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 126.40 | TN | $135.00 | $17,064.00 |
| 570-1-2 | PERFORMANCE TURF, SOD | 535.71 | SY | $3.56 | $1,907.13 |
| | **Shoulder Component Total** | | | | $24,478.70 |

**MEDIAN COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Total Median Width | 40.00 |
| Performance Turf Width | 5.34 |
| Total Median Shoulder Width L/R | 8.00 / 8.00 |
| Paved Median Shoulder Width L/R | 0.00 / 0.00 |
| Structural Spread Rate | 110 |
| Friction Course Spread Rate | 80 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 570-1-2 | PERFORMANCE TURF, SOD | 535.71 | SY | $3.56 | $1,907.13 |
| | **Median Component Total** | | | | $1,907.13 |

**Sequence 2 Total** $83,203.42

**Sequence:** 3 RSU - Resurfacing, Undivided **Net Length:** 5.045 MI
26,638 LF

**Description:** Section 48020000, CMP 0.351-2.592, CMP CMP 2.999-3.853, CMP 4.075-5.136, CMP 5.620-6.509, M/R 2-12' lanes, 4' outside paved shoulders.

## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 2.67 / 2.67 |
| Incidental Clearing and Grubbing Area | 0.00 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 3.27 | AC | $20,000.00 | $65,400.00 |
| | **Earthwork Component Total** | | | | $65,400.00 |

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 12.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 140 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 71,033.60 | SY | $2.55 | $181,135.68 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 5,860.27 | TN | $120.00 | $703,232.40 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 4,972.35 | TN | $135.00 | $671,267.25 |

**Turnouts/Crossovers Subcomponent**

| Description | Value |
|---|---|
| Asphalt Adjustment | 6.00 |
| Milling Code | Y |
| Friction Course Code | Y |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 4,262.02 | SY | $2.55 | $10,868.15 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 351.62 | TN | $120.00 | $42,194.40 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 298.34 | TN | $135.00 | $40,275.90 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|

| | |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 681.00 EA | $4.49 | $3,057.69 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 10.09 GM | $990.84 | $9,997.58 |
| 710-11-201 | PAINTED PAVT MARK,STD,YELLOW,SOLID,6" | 5.04 GM | $990.71 | $4,993.18 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 10.09 GM | $4,262.80 | $43,011.65 |
| | **Roadway Component Total** | | | $1,710,033.88 |

**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 7.00 / 7.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 4.00 / 4.00 |
| Structural Spread Rate | 0 |
| Friction Course Spread Rate | 140 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 23,677.87 SY | $3.05 | $72,217.50 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 1,657.45 TN | $140.00 | $232,043.00 |
| 570-1-2 | PERFORMANCE TURF, SOD | 15,804.98 SY | $3.56 | $56,265.73 |
| | **Shoulder Component Total** | | | $360,526.23 |

**Sequence 3 Total** $2,135,960.11

**Sequence:** 4 RSU - Resurfacing, Undivided **Net Length:** 1.308 MI
6,906 LF

**Description:** Section 48020000, CMP 2.592-2.999, CMP 5.362-5.620, CMP 6.810-7.453, M/R 2-12' lanes, 5' outside paved shoulders.

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## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 2.67 / 2.67 |
| Incidental Clearing and Grubbing Area | 0.00 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 0.85 | AC | $20,000.00 | $17,000.00 |
| | **Earthwork Component Total** | | | | $17,000.00 |

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## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 12.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 140 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 18,416.64 | SY | $2.55 | $46,962.43 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 1,519.37 | TN | $120.00 | $182,324.40 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 1,289.16 | TN | $135.00 | $174,036.60 |

**Turnouts/Crossovers Subcomponent**

| Description | Value |
|---|---|
| Asphalt Adjustment | 13.00 |
| Milling Code | Y |
| Friction Course Code | Y |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 2,394.16 | SY | $2.55 | $6,105.11 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 197.52 | TN | $120.00 | $23,702.40 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 167.59 | TN | $135.00 | $22,624.65 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|

| | |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 177.00 | EA | $4.49 | $794.73 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 2.62 | GM | $990.84 | $2,596.00 |
| 710-11-201 | PAINTED PAVT MARK,STD,YELLOW,SOLID,6" | 1.31 | GM | $990.71 | $1,297.83 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 2.62 | GM | $4,262.80 | $11,168.54 |
| | **Roadway Component Total** | | | | $471,612.69 |

**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 9.00 / 9.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 5.00 / 5.00 |
| Structural Spread Rate | 0 |
| Friction Course Spread Rate | 140 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 7,673.60 | SY | $3.05 | $23,404.48 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 537.15 | TN | $135.00 | $72,515.25 |
| 570-1-2 | PERFORMANCE TURF, SOD | 4,097.70 | SY | $3.56 | $14,587.81 |
| | **Shoulder Component Total** | | | | $110,507.54 |

**Sequence 4 Total** $599,120.23

**Sequence:** 5 RSD - Resurfacing, Divided **Net Length:** 0.222 MI
1,172 LF

**Description:** Section 48020000, CMP 3.853-4.075, M/R 2-12' lanes, 4' outside paved Shld Left, 5' outside paved Shld Right.

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## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 2.67 / 2.67 |
| Incidental Clearing and Grubbing Area | 0.00 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 0.14 | AC | $20,000.00 | $2,800.00 |
| | **Earthwork Component Total** | | | | $2,800.00 |

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## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 12.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 140 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 3,125.76 | SY | $2.55 | $7,970.69 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 257.88 | TN | $120.00 | $30,945.60 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 218.80 | TN | $135.00 | $29,538.00 |

**Turnouts/Crossovers Subcomponent**

| Description | Value |
|---|---|
| Asphalt Adjustment | 11.00 |
| Milling Code | Y |
| Friction Course Code | Y |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 343.83 | SY | $2.55 | $876.77 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 28.37 | TN | $120.00 | $3,404.40 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 24.07 | TN | $135.00 | $3,249.45 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|

| | |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 30.00 | EA | $4.49 | $134.70 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.44 | GM | $990.84 | $435.97 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.44 | GM | $4,262.80 | $1,875.63 |
| | **Roadway Component Total** | | | | $78,431.21 |

**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 7.00 / 8.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 4.00 / 5.00 |
| Structural Spread Rate | 0 |
| Friction Course Spread Rate | 140 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 1,172.16 | SY | $3.05 | $3,575.09 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 82.05 | TN | $135.00 | $11,076.75 |
| 570-1-2 | PERFORMANCE TURF, SOD | 695.48 | SY | $3.56 | $2,475.91 |
| | **Shoulder Component Total** | | | | $17,127.75 |

**Sequence 5 Total** $98,358.96

**Sequence:** 6 RSU - Resurfacing, Undivided **Net Length:** 0.168 MI
887 LF

**Description:** Section 48020000, CMP 5.136-5.362, M/R 2-12' lanes, 6' outside paved shoulders, 4' VG Shld Left, Except BR#480190 (CMP 5.237-5.295.

## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 0.00 / 2.67 |
| Incidental Clearing and Grubbing Area | 0.00 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 0.05 | AC | $20,000.00 | $1,000.00 |
| | **Earthwork Component Total** | | | | $1,000.00 |

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 12.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 140 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 2,365.44 | SY | $2.55 | $6,031.87 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 195.15 | TN | $120.00 | $23,418.00 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 165.58 | TN | $135.00 | $22,353.30 |

**Turnouts/Crossovers Subcomponent**

| Description | Value |
|---|---|
| Asphalt Adjustment | 4.00 |
| Milling Code | Y |
| Friction Course Code | Y |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 94.62 | SY | $2.55 | $241.28 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 7.81 | TN | $120.00 | $937.20 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 6.62 | TN | $135.00 | $893.70 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|

| | |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 23.00 | EA | $4.49 | $103.27 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.34 | GM | $990.84 | $336.89 |
| 710-11-201 | PAINTED PAVT MARK,STD,YELLOW,SOLID,6" | 0.17 | GM | $990.71 | $168.42 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.34 | GM | $4,262.80 | $1,449.35 |
| | **Roadway Component Total** | | | | $55,933.28 |

**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 6.00 / 9.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 0.00 / 2.67 |
| Paved Outside Shoulder Width L/R | 6.00 / 6.00 |
| Structural Spread Rate | 0 |
| Friction Course Spread Rate | 140 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 1,182.72 | SY | $3.05 | $3,607.30 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 82.79 | TN | $135.00 | $11,176.65 |
| 570-1-2 | PERFORMANCE TURF, SOD | 263.16 | SY | $3.56 | $936.85 |
| | **Shoulder Component Total** | | | | $15,720.80 |

**Sequence 6 Total** $72,654.08

**Sequence:** 7 RSU - Resurfacing, Undivided **Net Length:** 0.180 MI
950 LF

**Description:** Section 48020000, CMP 6.509-6.689, M/R 2-12' lanes, 4' outside paved shoulders, 4' VG Shld Right.

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## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 2.67 / 0.00 |
| Incidental Clearing and Grubbing Area | 0.00 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 0.06 | AC | $20,000.00 | $1,200.00 |
| | **Earthwork Component Total** | | | | $1,200.00 |

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## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 12.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 140 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 2,534.40 | SY | $2.55 | $6,462.72 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 209.09 | TN | $120.00 | $25,090.80 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 177.41 | TN | $135.00 | $23,950.35 |

**Turnouts/Crossovers Subcomponent**

| Description | Value |
|---|---|
| Asphalt Adjustment | 16.00 |
| Milling Code | Y |
| Friction Course Code | Y |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 405.50 | SY | $2.55 | $1,034.03 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 33.45 | TN | $120.00 | $4,014.00 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 28.39 | TN | $135.00 | $3,832.65 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|

| | |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 24.00 | EA | $4.49 | $107.76 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.36 | GM | $990.84 | $356.70 |
| 710-11-201 | PAINTED PAVT MARK,STD,YELLOW,SOLID,6" | 0.18 | GM | $990.71 | $178.33 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.36 | GM | $4,262.80 | $1,534.61 |
| | **Roadway Component Total** | | | | $66,561.95 |

**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 7.00 / 6.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 0.00 |
| Paved Outside Shoulder Width L/R | 4.00 / 4.00 |
| Structural Spread Rate | 0 |
| Friction Course Spread Rate | 140 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 844.80 | SY | $3.05 | $2,576.64 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 59.14 | TN | $135.00 | $7,983.90 |
| 570-1-2 | PERFORMANCE TURF, SOD | 281.95 | SY | $3.56 | $1,003.74 |
| | **Shoulder Component Total** | | | | $11,564.28 |

**Sequence 7 Total** $79,326.23

**Sequence:** 8 RSU - Resurfacing, Undivided **Net Length:** 0.121 MI
639 LF

**Description:** Section 48020000, CMP 6.689-6.810, M/R 2-12' lanes, 5' outside paved shoulders Left, 8' VG Shld Right.

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## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 2.67 / 0.00 |
| Incidental Clearing and Grubbing Area | 0.00 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 0.04 | AC | $20,000.00 | $800.00 |
| | **Earthwork Component Total** | | | | $800.00 |

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## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 12.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 140 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 1,703.68 | SY | $2.55 | $4,344.38 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 140.55 | TN | $120.00 | $16,866.00 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 119.26 | TN | $135.00 | $16,100.10 |

**Turnouts/Crossovers Subcomponent**

| Description | Value |
|---|---|
| Asphalt Adjustment | 10.00 |
| Milling Code | Y |
| Friction Course Code | Y |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 170.37 | SY | $2.55 | $434.44 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 14.06 | TN | $120.00 | $1,687.20 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 11.93 | TN | $135.00 | $1,610.55 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|

| | |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 16.00 | EA | $4.49 | $71.84 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.24 | GM | $990.84 | $237.80 |
| 710-11-201 | PAINTED PAVT MARK,STD,YELLOW,SOLID,6" | 0.12 | GM | $990.71 | $118.89 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.24 | GM | $4,262.80 | $1,023.07 |
| | **Roadway Component Total** | | | | $42,494.27 |

**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 8.00 / 11.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 0.00 |
| Paved Outside Shoulder Width L/R | 5.00 / 0.00 |
| Structural Spread Rate | 0 |
| Friction Course Spread Rate | 140 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 354.93 | SY | $3.05 | $1,082.54 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 24.85 | TN | $135.00 | $3,354.75 |
| 570-1-2 | PERFORMANCE TURF, SOD | 189.53 | SY | $3.56 | $674.73 |
| | **Shoulder Component Total** | | | | $5,112.02 |

**Sequence 8 Total** $48,406.29

**Sequence:** 9 RSU - Resurfacing, Undivided **Net Length:** 0.149 MI
787 LF

**Description:** Section 48020000, CMP 7.453-7.602, M/R 3-12' lanes, 4' outside paved shoulders.

## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 2.67 / 2.67 |
| Incidental Clearing and Grubbing Area | 0.00 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 0.10 | AC | $20,000.00 | $2,000.00 |
| | **Earthwork Component Total** | | | | $2,000.00 |

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 3 |
| Roadway Pavement Width L/R | 12.00 / 24.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 140 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 3,146.88 | SY | $2.55 | $8,024.54 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 259.62 | TN | $120.00 | $31,154.40 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 220.28 | TN | $135.00 | $29,737.80 |

**Turnouts/Crossovers Subcomponent**

| Description | Value |
|---|---|
| Asphalt Adjustment | 22.00 |
| Milling Code | Y |
| Friction Course Code | Y |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 692.31 | SY | $2.55 | $1,765.39 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 57.12 | TN | $120.00 | $6,854.40 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 48.46 | TN | $135.00 | $6,542.10 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |

| | |
|---|---|
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 2 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 80.00 | EA | $4.49 | $359.20 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.30 | GM | $990.84 | $297.25 |
| 710-11-201 | PAINTED PAVT MARK,STD,YELLOW,SOLID,6" | 0.30 | GM | $990.71 | $297.21 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.30 | GM | $4,262.80 | $1,278.84 |
| | **Roadway Component Total** | | | | $86,311.13 |

**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 7.00 / 7.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 4.00 / 4.00 |
| Structural Spread Rate | 0 |
| Friction Course Spread Rate | 140 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 699.31 | SY | $3.05 | $2,132.90 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 48.95 | TN | $135.00 | $6,608.25 |
| 570-1-2 | PERFORMANCE TURF, SOD | 466.79 | SY | $3.56 | $1,661.77 |
| | **Shoulder Component Total** | | | | $10,402.92 |

**Sequence 9 Total** $98,714.05

**Sequence:** 10 RSU - Resurfacing, Undivided

**Net Length:** 2.172 MI 11,468 LF

**Description:** Left Turn Lanes

**ROADWAY COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 1 |
| Roadway Pavement Width L/R | 12.00 / 0.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 140 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 15,290.88 | SY | $2.55 | $38,991.74 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 1,261.50 | TN | $120.00 | $151,380.00 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 1,070.36 | TN | $135.00 | $144,498.60 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 4.34 | GM | $990.84 | $4,300.25 |
| 711-16-101 | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6" | 4.34 | GM | $4,266.50 | $18,516.61 |
| | **Roadway Component Total** | | | | $357,687.20 |

**Sequence 10 Total** $357,687.20

**Sequence:** 11 RSU - Resurfacing, Undivided

**Net Length:** 0.720 MI 3,802 LF

**Description:** Right Turn Lanes

**ROADWAY COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 1 |
| Roadway Pavement Width L/R | 0.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 140 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 5,068.80 | SY | $2.55 | $12,925.44 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 418.18 | TN | $120.00 | $50,181.60 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 354.82 | TN | $135.00 | $47,900.70 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 1.44 | GM | $990.84 | $1,426.81 |
| 711-16-101 | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6" | 1.44 | GM | $4,266.50 | $6,143.76 |
| | **Roadway Component Total** | | | | $118,578.31 |

**Sequence 11 Total** $118,578.31

**Sequence:** 12 NUR - New Construction, Undivided, Rural **Net Length:** 0.043 MI 225 LF

**Description:** Realign Millview Road to improve skew angle. Requested by Escambia County. R/W will be required.

## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 50.00 / 50.00 |
| Incidental Clearing and Grubbing Area | 0.16 |
| Alignment Number | 1 |
| Distance | 0.043 |
| Top of Structural Course For Begin Section | 105.00 |
| Top of Structural Course For End Section | 105.00 |
| Horizontal Elevation For Begin Section | 100.00 |
| Horizontal Elevation For End Section | 100.00 |
| Front Slope L/R | 6 to 1 / 6 to 1 |
| Outside Shoulder Cross Slope L/R | 6.00 % / 6.00 % |
| Roadway Cross Slope L/R | 2.00 % / 2.00 % |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 0.52 | AC | $20,000.00 | $10,400.00 |
| 110-1-1 | CLEARING & GRUBBING | 0.16 | AC | $20,000.00 | $3,200.00 |
| 120-6 | EMBANKMENT | 2,202.62 | CY | $10.00 | $22,026.20 |
| | **Earthwork Component Total** | | | | $35,626.20 |

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 12.00 / 12.00 |
| Structural Spread Rate | 275 |
| Friction Course Spread Rate | 140 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 160-4 | TYPE B STABILIZATION | 899.71 | SY | $7.19 | $6,468.91 |
| 285-706 | OPTIONAL BASE,BASE GROUP 06 | 616.30 | SY | $30.00 | $18,489.00 |
| 334-1-52 | SUPERPAVE ASPH CONC, TRAF B, PG76-22 | 82.47 | TN | $120.00 | $9,896.40 |
| 337-7-80 | ASPH CONC FC,TRAFFIC B,FC-9.5,PG 76-22 | 41.99 | TN | $135.00 | $5,668.65 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |

| | |
|---|---|
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 6.00 | EA | $4.49 | $26.94 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.09 | GM | $990.84 | $89.18 |
| 711-16-101 | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6" | 0.09 | GM | $4,266.50 | $383.98 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.09 | GM | $4,262.80 | $383.65 |
| | **Roadway Component Total** | | | | $41,406.72 |

## SHOULDER COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 6.00 / 6.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 5.34 / 5.34 |
| Paved Outside Shoulder Width L/R | 0.00 / 0.00 |
| Structural Spread Rate | 110 |
| Friction Course Spread Rate | 165 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 570-1-1 | PERFORMANCE TURF | 266.91 | SY | $2.00 | $533.82 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 162-1-11 | PREPARED SOIL LAYER, FINISH SOIL, 6" | 1,096.91 | SY | $3.08 | $3,378.48 |
| 570-1-2 | PERFORMANCE TURF, SOD | 800.00 | SY | $3.56 | $2,848.00 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-10-3 | SEDIMENT BARRIER | 584.81 | LF | $3.03 | $1,771.97 |
| 107-1 | LITTER REMOVAL | 0.52 | AC | $39.13 | $20.35 |
| 107-2 | MOWING | 0.52 | AC | $85.83 | $44.63 |
| | **Shoulder Component Total** | | | | $8,597.25 |

## DRAINAGE COMPONENT

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 570-1-2 | PERFORMANCE TURF, SOD | 30.00 | SY | $3.56 | $106.80 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 430-175-118 | PIPE CULV, OPT MATL, ROUND, 18"S/CD | 56.00 | LF | $82.54 | $4,622.24 |
| 430-984-125 | MITERED END SECT, OPTIONAL RD, 18" SD | 2.00 | EA | $1,382.51 | $2,765.02 |
| | **Drainage Component Total** | | | | $7,494.06 |

**SIGNING COMPONENT**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 700-1-11 | SINGLE POST SIGN, F&I GM, <12 SF | 6.00 | AS | $343.43 | $2,060.58 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 700-1-60 | SINGLE POST SIGN, REMOVE | 6.00 | AS | $35.32 | $211.92 |
| | **Signing Component Total** | | | | $2,272.50 |

**Sequence 12 Total** $95,396.73

**Sequence:** 13 WUR - Widen/Resurface, Undivided, Rural **Net Length:** 0.174 MI 919 LF

**Description:** Klondike Road: Const EBRT, NBRT, WBLT, WBRT, SBRT and traffic signal. Mainline widen/resurface, signalize. R/W will be required.

**Special Conditions:** from KLONDI-1-52-01 LRE

## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 10.00 / 10.00 |
| Incidental Clearing and Grubbing Area | 0.00 |
| Alignment Number | 1 |
| Distance | 0.174 |
| Top of Structural Course For Begin Section | 102.00 |
| Top of Structural Course For End Section | 102.00 |
| Horizontal Elevation For Begin Section | 99.00 |
| Horizontal Elevation For End Section | 99.00 |
| Existing Front Slope L/R | 6 to 1 / 6 to 1 |
| Existing Outside Shoulder Cross Slope L/R | 6.00 % / 6.00 % |
| Front Slope L/R | 6 to 1 / 6 to 1 |
| Outside Shoulder Cross Slope L/R | 6.00 % / 6.00 % |
| Roadway Cross Slope L/R | 2.00 % / 2.00 % |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 0.42 | AC | $20,000.00 | $8,400.00 |
| 120-2-2 | BORROW EXCAVATION, TRUCK MEASURE | 1,047.34 | CY | $22.86 | $23,942.19 |
| | **Earthwork Component Total** | | | | $32,342.19 |

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 3 |
| Existing Roadway Pavement Width L/R | 18.00 / 18.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 80 |
| Widened Outside Pavement Width L/R | 12.00 / 12.00 |
| Widened Structural Spread Rate | 330 |
| Widened Friction Course Spread Rate | 80 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 160-4 | TYPE B STABILIZATION | 4,491.52 | SY | $7.19 | $32,294.03 |
| 285-709 | OPTIONAL BASE,BASE GROUP 09 | 2,517.29 | SY | $28.11 | $70,761.02 |
| 327-70-5 | MILLING EXIST ASPH PAVT, 2" AVG DEPTH | 3,674.88 | SY | $3.00 | $11,024.64 |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, TRAFFIC C | 303.18 | TN | $118.82 | $36,023.85 |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, | 404.24 | TN | $118.82 | $48,031.80 |

| | | | | |
|---|---|---|---|---|
| | TRAFFIC C | | | |
| 337-7-83 | ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 | 147.00 TN | $125.71 | $18,479.37 |
| 337-7-83 | ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 | 98.00 TN | $125.71 | $12,319.58 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 711-11-125 | THERMOPLASTIC, STD, WHITE, SOLID, 24" | 160.00 | LF | $4.31 | $689.60 |
| 711-11-141 | THERMOPLASTIC, STD, WHITE, DOT GUIDE, 6" | 0.05 | GM | $2,227.49 | $111.37 |
| 711-11-170 | THERMOPLASTIC, STD, WHITE, ARROW | 18.00 | EA | $71.06 | $1,279.08 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | N |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 2 |
| Solid Stripe No. of Stripes | 4 |
| Skip Stripe No. of Paint Applications | 2 |
| Skip Stripe No. of Stripes | 2 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 94.00 | EA | $4.49 | $422.06 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 1.39 | GM | $990.84 | $1,377.27 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.70 | GM | $652.63 | $456.84 |
| | **Roadway Component Total** | | | | $233,270.51 |

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**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Existing Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| New Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Existing Paved Outside Shoulder Width L/R | 5.00 / 5.00 |
| New Paved Outside Shoulder Width L/R | 5.00 / 5.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 80 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 285-704 | OPTIONAL BASE,BASE GROUP 04 | 1,088.17 | SY | $16.14 | $17,563.06 |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, TRAFFIC C | 84.22 | TN | $118.82 | $10,007.02 |

| | | | | |
|---|---|---|---|---|
| 337-7-83 | ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 | 40.83 TN | $125.71 | $5,132.74 |
| 570-1-2 | PERFORMANCE TURF, SOD | 545.11 SY | $3.56 | $1,940.59 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 104-10-3 | SEDIMENT BARRIER | 2,113.06 LF | $3.03 | $6,402.57 |
| 104-11 | FLOATING TURBIDITY BARRIER | 17.40 LF | $13.76 | $239.42 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 17.40 LF | $7.34 | $127.72 |
| 104-15 | SOIL TRACKING PREVENTION DEVICE | 1.00 EA | $3,420.12 | $3,420.12 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 EA | $201.67 | $201.67 |
| 107-1 | LITTER REMOVAL | 0.42 AC | $39.13 | $16.43 |
| 107-2 | MOWING | 0.42 AC | $85.83 | $36.05 |
| | **Shoulder Component Total** | | | $45,087.39 |

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**DRAINAGE COMPONENT**

**Pay Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 400-2-2 | CONC CLASS II, ENDWALLS | 3.13 CY | $1,500.00 | $4,695.00 |
| 430-174-124 | PIPE CULV, OPT MATL, ROUND,24"SD | 304.00 LF | $92.66 | $28,168.64 |
| 430-175-136 | PIPE CULV, OPT MATL, ROUND, 36"S/CD | 104.00 LF | $180.47 | $18,768.88 |
| 430-984-129 | MITERED END SECT, OPTIONAL RD, 24" SD | 4.00 EA | $1,666.06 | $6,664.24 |
| 570-1-1 | PERFORMANCE TURF | 70.30 SY | $2.00 | $140.60 |
| 570-1-2 | PERFORMANCE TURF, SOD | 100.00 SY | $3.56 | $356.00 |

**X-Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 425-1-541 | INLETS, DT BOT, TYPE D, <10' | 4.00 EA | $6,000.00 | $24,000.00 |
| 425-2-61 | MANHOLES, P-8, <10' | 3.00 EA | $5,000.00 | $15,000.00 |
| | **Drainage Component Total** | | | $97,793.36 |

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**SIGNING COMPONENT**

**Pay Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 700-1-11 | SINGLE POST SIGN, F&I GM, <12 SF | 1.00 AS | $343.43 | $343.43 |
| 700-1-12 | SINGLE POST SIGN, F&I GM, 12-20 SF | 4.00 AS | $1,309.97 | $5,239.88 |
| 700-1-50 | SINGLE POST SIGN, RELOCATE | 1.00 AS | $212.75 | $212.75 |
| 700-1-60 | SINGLE POST SIGN, REMOVE | 4.00 AS | $35.32 | $141.28 |
| 700-2-13 | MULTI- POST SIGN, F&I GM, 21-30 SF | 1.00 AS | $4,728.15 | $4,728.15 |

| | | | | |
|---|---|---|---|---|
| 700-2-60 | MULTI- POST SIGN, REMOVE | 1.00 AS | $533.43 | $533.43 |
| | **Signing Component Total** | | | $11,198.92 |

## SIGNALIZATIONS COMPONENT

**Signalization 1**

| Description | Value |
|---|---|
| Type | 2 Lane Mast Arm |
| Multiplier | 1 |
| Description | |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 630-2-11 | CONDUIT, F& I, OPEN TRENCH | 800.00 | LF | $7.62 | $6,096.00 |
| 630-2-12 | CONDUIT, F& I, DIRECTIONAL BORE | 200.00 | LF | $19.51 | $3,902.00 |
| 632-7-1 | SIGNAL CABLE- NEW OR RECO, FUR & INSTALL | 1.00 | PI | $5,439.82 | $5,439.82 |
| 635-2-11 | PULL & SPLICE BOX, F&I, 13" x 24" | 12.00 | EA | $664.80 | $7,977.60 |
| 639-1-112 | ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON | 1.00 | AS | $2,758.98 | $2,758.98 |
| 639-2-1 | ELECTRICAL SERVICE WIRE, F&I | 60.00 | LF | $4.98 | $298.80 |
| 650-1-14 | VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W | 8.00 | AS | $1,049.89 | $8,399.12 |
| 653-1-11 | PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY | 8.00 | AS | $707.50 | $5,660.00 |
| 660-1-102 | LOOP DETECTOR INDUCTIVE, F&I, TYPE 2 | 8.00 | EA | $238.15 | $1,905.20 |
| 660-2-106 | LOOP ASSEMBLY, F&I, TYPE F | 8.00 | AS | $833.91 | $6,671.28 |
| 665-1-11 | PEDESTRIAN DETECTOR, F&I, STANDARD | 8.00 | EA | $175.27 | $1,402.16 |
| 670-5-111 | TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT | 1.00 | AS | $27,377.95 | $27,377.95 |
| 700-3-101 | SIGN PANEL, F&I GM, UP TO 12 SF | 4.00 | EA | $239.01 | $956.04 |
| 700-5-22 | INTERNAL ILLUM SIGN, F&I OM, 12-18 SF | 4.00 | EA | $3,582.50 | $14,330.00 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 649-21-15 | STEEL MAST ARM ASSEMBLY, F&I, 70' | 4.00 | EA | $50,845.54 | $203,382.16 |
| | **Signalizations Component Total** | | | | $296,557.11 |

## LIGHTING COMPONENT

**Rural Lighting Subcomponent**

| Description | Value |
|---|---|
| Multiplier (Number of Poles) | 8 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| 630-2-11 | CONDUIT, F& I, OPEN TRENCH | 1,600.00 | LF | $7.62 | $12,192.00 |
| 635-2-11 | PULL & SPLICE BOX, F&I, 13" x 24" | 8.00 | EA | $664.80 | $5,318.40 |
| 715-1-13 | LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2 | 4,800.00 | LF | $2.42 | $11,616.00 |
| 715-4-14 | LIGHT POLE COMPLETE, F&I-STD, 45' | 8.00 | EA | $6,068.86 | $48,550.88 |
| 715-500-1 | POLE CABLE DIST SYS, CONVENTIONAL | 8.00 | EA | $582.23 | $4,657.84 |
| | **Subcomponent Total** | | | | $82,335.12 |
| | **Lighting Component Total** | | | | $82,335.12 |
| **Sequence 13 Total** | | | | | $798,584.60 |

**Sequence:** 14 WUR - Widen/Resurface, Undivided, Rural **Net Length:** 0.116 MI 610 LF

**Description:** Klondike Road: Const EBRT, NBRT, WBLT, WBRT, SBRT and traffic signal. Side road widen/resurface only, no drainage, lighting, or signal. R/W will be required.

**Special Conditions:** from KLONDI-1-52-01 LRE

## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 10.00 / 10.00 |
| Incidental Clearing and Grubbing Area | 0.00 |
| Alignment Number | 1 |
| Distance | 0.115 |
| Top of Structural Course For Begin Section | 102.00 |
| Top of Structural Course For End Section | 102.00 |
| Horizontal Elevation For Begin Section | 99.00 |
| Horizontal Elevation For End Section | 99.00 |
| Existing Front Slope L/R | 6 to 1 / 6 to 1 |
| Existing Outside Shoulder Cross Slope L/R | 6.00 % / 6.00 % |
| Front Slope L/R | 6 to 1 / 6 to 1 |
| Outside Shoulder Cross Slope L/R | 6.00 % / 6.00 % |
| Roadway Cross Slope L/R | 2.00 % / 2.00 % |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 0.28 | AC | $20,000.00 | $5,600.00 |
| 120-2-2 | BORROW EXCAVATION, TRUCK MEASURE | 355.77 | CY | $22.86 | $8,132.90 |
| | **Earthwork Component Total** | | | | $13,732.90 |

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Existing Roadway Pavement Width L/R | 12.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 80 |
| Widened Outside Pavement Width L/R | 6.00 / 6.00 |
| Widened Structural Spread Rate | 330 |
| Widened Friction Course Spread Rate | 80 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 160-4 | TYPE B STABILIZATION | 2,168.32 | SY | $7.19 | $15,590.22 |
| 285-709 | OPTIONAL BASE,BASE GROUP 09 | 857.84 | SY | $28.11 | $24,113.88 |
| 327-70-5 | MILLING EXIST ASPH PAVT, 2" AVG DEPTH | 1,626.24 | SY | $3.00 | $4,878.72 |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, TRAFFIC C | 134.16 | TN | $118.82 | $15,940.89 |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, | 134.16 | TN | $118.82 | $15,940.89 |

| | | | | |
|---|---|---|---|---|
| | TRAFFIC C | | | |
| 337-7-83 | ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 | 65.05 TN | $125.71 | $8,177.44 |
| 337-7-83 | ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 | 32.52 TN | $125.71 | $4,088.09 |

**X-Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 711-11-125 | THERMOPLASTIC, STD, WHITE, SOLID, 24" | 160.00 LF | $4.31 | $689.60 |
| 711-11-141 | THERMOPLASTIC, STD, WHITE, DOT GUIDE, 6" | 0.05 GM | $2,227.49 | $111.37 |
| 711-11-170 | THERMOPLASTIC, STD, WHITE, ARROW | 18.00 EA | $71.06 | $1,279.08 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | N |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 2 |
| Solid Stripe No. of Stripes | 4 |
| Skip Stripe No. of Paint Applications | 2 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 16.00 EA | $4.49 | $71.84 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.92 GM | $990.84 | $911.57 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.23 GM | $652.63 | $150.10 |
| | **Roadway Component Total** | | | $91,943.69 |

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**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Existing Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| New Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Existing Paved Outside Shoulder Width L/R | 5.00 / 5.00 |
| New Paved Outside Shoulder Width L/R | 5.00 / 5.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 80 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 285-704 | OPTIONAL BASE,BASE GROUP 04 | 722.32 SY | $16.14 | $11,658.24 |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, TRAFFIC C | 55.90 TN | $118.82 | $6,642.04 |

| | | | | |
|---|---|---|---|---|
| 337-7-83 | ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 | 27.10 TN | $125.71 | $3,406.74 |
| 570-1-2 | PERFORMANCE TURF, SOD | 361.84 SY | $3.56 | $1,288.15 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 104-10-3 | SEDIMENT BARRIER | 1,402.63 LF | $3.03 | $4,249.97 |
| 104-11 | FLOATING TURBIDITY BARRIER | 11.55 LF | $13.76 | $158.93 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 11.55 LF | $7.34 | $84.78 |
| 104-15 | SOIL TRACKING PREVENTION DEVICE | 1.00 EA | $3,420.12 | $3,420.12 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 EA | $201.67 | $201.67 |
| 107-1 | LITTER REMOVAL | 0.28 AC | $39.13 | $10.96 |
| 107-2 | MOWING | 0.28 AC | $85.83 | $24.03 |
| | **Shoulder Component Total** | | | $31,145.63 |

**Sequence 14 Total** $136,822.22

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# FDOT Long Range Estimating System - Production

## R3: Project Details by Sequence Report

**Project:** 437764-1-52-01 **Letting Date:** 05/2022

**Description:** SR 10A (US 90) FROM SR 10 (US 90A) 9MI TO W OF SR 297 PINE FOREST RD

**District:** 03 **County:** 48 ESCAMBIA **Market Area:** 01 **Units:** English
**Contract Class:** 7 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 7.602 MI

**Project Manager:** JORDAN BURNETT

**Version 6-P Project Grand Total** **$8,146,324.46**
**Description:** SR 10A (US 90) FROM SR 10 (US 90A) TO W OF SR 297 (PINE FOREST RD)- 2019 6MU = 2/13/2019 = PR

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**Resurfacing Lane Mile Cost** **$429,431.97**

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**Project Sequences Subtotal** **$5,796,383.60**

| | | | |
|---|---|---|---|
| 102-1 | Maintenance of Traffic | 10.00 % | $579,638.36 |
| 101-1 | Mobilization | 10.00 % | $637,602.20 |

**Project Sequences Total** **$7,013,624.16**

| | | |
|---|---|---|
| Project Unknowns | 15.00 % | $1,052,043.62 |
| Design/Build | 0.00 % | $0.00 |

**Non-Bid Components:**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 999-25 | INITIAL CONTINGENCY AMOUNT (DO NOT BID) | | LS | $80,656.68 | $80,656.68 |

**Project Non-Bid Subtotal** **$80,656.68**

**Version 6-P Project Grand Total** **$8,146,324.46**

Date: 4/5/2019 3:47:06 PM

# FDOT Long Range Estimating System - Production

## R3: Project Details by Sequence Report

**Project:** 444099-1-52-01 **Letting Date:** 05/2022

**Description:** SR 10 (US 90) MOBILE HWY @ KLONDIKE ROAD INTERSECTION

**District:** 03 **County:** 48 ESCAMBIA **Market Area:** 01 **Units:** English
**Contract Class:** 7 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 0.360 MI

**Project Manager:** JORDAN BURNETT

**Version 1-P Project Grand Total** **$1,408,007.27**
**Description:** SR 10 (US 90) MOBILE HWY @ KLONDIKE ROAD INTERSECTION = 2019 6MU = 2/11/2019 = PR

**Sequence:** 1 WUR - Widen/Resurface, Undivided, Rural **Net Length:** 0.174 MI
919 LF

**Description:** Mainline widen/resurface, signalize

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### EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 10.00 / 10.00 |
| Incidental Clearing and Grubbing Area | 0.00 |
| | |
| Alignment Number | 1 |
| Distance | 0.174 |
| Top of Structural Course For Begin Section | 102.00 |
| Top of Structural Course For End Section | 102.00 |
| Horizontal Elevation For Begin Section | 99.00 |
| Horizontal Elevation For End Section | 99.00 |
| Existing Front Slope L/R | 6 to 1 / 6 to 1 |
| Existing Outside Shoulder Cross Slope L/R | 6.00 % / 6.00 % |
| Front Slope L/R | 6 to 1 / 6 to 1 |
| Outside Shoulder Cross Slope L/R | 6.00 % / 6.00 % |
| Roadway Cross Slope L/R | 2.00 % / 2.00 % |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 0.42 | AC | $40,000.00 | $16,800.00 |
| 120-2-2 | BORROW EXCAVATION, TRUCK MEASURE | 1,047.34 | CY | $22.86 | $23,942.19 |
| | **Earthwork Component Total** | | | | $40,742.19 |

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### ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 3 |
| Existing Roadway Pavement Width L/R | 18.00 / 18.00 |
| Structural Spread Rate | 165 |

| | |
|---|---|
| Friction Course Spread Rate | 80 |
| Widened Outside Pavement Width L/R | 12.00 / 12.00 |
| Widened Structural Spread Rate | 330 |
| Widened Friction Course Spread Rate | 80 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 160-4 | TYPE B STABILIZATION | 4,491.52 | SY | $6.60 | $29,644.03 |
| 285-709 | OPTIONAL BASE,BASE GROUP 09 | 2,517.29 | SY | $28.11 | $70,761.02 |
| 327-70-5 | MILLING EXIST ASPH PAVT, 2" AVG DEPTH | 3,674.88 | SY | $3.00 | $11,024.64 |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, TRAFFIC C | 303.18 | TN | $135.00 | $40,929.30 |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, TRAFFIC C | 404.24 | TN | $135.00 | $54,572.40 |
| 337-7-83 | ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 | 147.00 | TN | $160.00 | $23,520.00 |
| 337-7-83 | ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 | 98.00 | TN | $160.00 | $15,680.00 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 711-11-125 | THERMOPLASTIC, STD, WHITE, SOLID, 24" | 160.00 | LF | $4.31 | $689.60 |
| 711-11-141 | THERMOPLASTIC, STD, WHITE, DOT GUIDE, 6" | 0.05 | GM | $2,227.49 | $111.37 |
| 711-11-170 | THERMOPLASTIC, STD, WHITE, ARROW | 18.00 | EA | $71.06 | $1,279.08 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | N |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 2 |
| Solid Stripe No. of Stripes | 4 |
| Skip Stripe No. of Paint Applications | 2 |
| Skip Stripe No. of Stripes | 2 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 94.00 | EA | $4.29 | $403.26 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 1.39 | GM | $986.62 | $1,371.40 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.70 | GM | $652.63 | $456.84 |
| | **Roadway Component Total** | | | | $250,442.94 |

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**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|

| | |
|---|---|
| Existing Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| New Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Existing Paved Outside Shoulder Width L/R | 5.00 / 5.00 |
| New Paved Outside Shoulder Width L/R | 5.00 / 5.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 80 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 285-704 | OPTIONAL BASE,BASE GROUP 04 | 1,088.17 | SY | $16.14 | $17,563.06 |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, TRAFFIC C | 84.22 | TN | $135.00 | $11,369.70 |
| 337-7-83 | ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 | 40.83 | TN | $160.00 | $6,532.80 |
| 570-1-2 | PERFORMANCE TURF, SOD | 545.11 | SY | $4.00 | $2,180.44 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-10-3 | SEDIMENT BARRIER | 2,113.06 | LF | $3.25 | $6,867.45 |
| 104-11 | FLOATING TURBIDITY BARRIER | 17.40 | LF | $13.76 | $239.42 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 17.40 | LF | $7.34 | $127.72 |
| 104-15 | SOIL TRACKING PREVENTION DEVICE | 1.00 | EA | $3,420.12 | $3,420.12 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 | EA | $250.00 | $250.00 |
| 107-1 | LITTER REMOVAL | 0.42 | AC | $100.00 | $42.00 |
| 107-2 | MOWING | 0.42 | AC | $150.00 | $63.00 |

**Shoulder Component Total** $48,655.71

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**DRAINAGE COMPONENT**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 400-2-2 | CONC CLASS II, ENDWALLS | 3.13 | CY | $1,479.62 | $4,631.21 |
| 430-174-124 | PIPE CULV, OPT MATL, ROUND,24"SD | 304.00 | LF | $86.38 | $26,259.52 |
| 430-175-136 | PIPE CULV, OPT MATL, ROUND, 36"S/CD | 104.00 | LF | $180.47 | $18,768.88 |
| 430-984-129 | MITERED END SECT, OPTIONAL RD, 24" SD | 4.00 | EA | $1,666.06 | $6,664.24 |
| 570-1-1 | PERFORMANCE TURF | 70.30 | SY | $2.00 | $140.60 |
| 570-1-2 | PERFORMANCE TURF, SOD | 100.00 | SY | $4.00 | $400.00 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 425-1-541 | INLETS, DT BOT, TYPE D, <10' | 4.00 | EA | $6,000.00 | $24,000.00 |
| 425-2-61 | MANHOLES, P-8, <10' | 3.00 | EA | $5,000.00 | $15,000.00 |

| | | |
|---|---|---|
| | **Drainage Component Total** | $95,864.45 |

## SIGNING COMPONENT

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 700-1-11 | SINGLE POST SIGN, F&I GM, <12 SF | 1.00 | AS | $339.54 | $339.54 |
| 700-1-12 | SINGLE POST SIGN, F&I GM, 12-20 SF | 4.00 | AS | $1,309.97 | $5,239.88 |
| 700-1-50 | SINGLE POST SIGN, RELOCATE | 1.00 | AS | $212.75 | $212.75 |
| 700-1-60 | SINGLE POST SIGN, REMOVE | 4.00 | AS | $35.32 | $141.28 |
| 700-2-13 | MULTI- POST SIGN, F&I GM, 21-30 SF | 1.00 | AS | $4,728.15 | $4,728.15 |
| 700-2-60 | MULTI- POST SIGN, REMOVE | 1.00 | AS | $533.43 | $533.43 |

| | | |
|---|---|---|
| | **Signing Component Total** | $11,195.03 |

## SIGNALIZATIONS COMPONENT

**Signalization 1**

| Description | Value |
|---|---|
| Type | 2 Lane Mast Arm |
| Multiplier | 1 |
| Description | |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 630-2-11 | CONDUIT, F& I, OPEN TRENCH | 800.00 | LF | $7.62 | $6,096.00 |
| 630-2-12 | CONDUIT, F& I, DIRECTIONAL BORE | 200.00 | LF | $23.00 | $4,600.00 |
| 632-7-1 | SIGNAL CABLE- NEW OR RECO, FUR & INSTALL | 1.00 | PI | $3,169.63 | $3,169.63 |
| 635-2-11 | PULL & SPLICE BOX, F&I, 13" x 24" | 12.00 | EA | $655.09 | $7,861.08 |
| 639-1-112 | ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON | 1.00 | AS | $2,758.98 | $2,758.98 |
| 639-2-1 | ELECTRICAL SERVICE WIRE, F&I | 60.00 | LF | $5.04 | $302.40 |
| 650-1-14 | VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W | 8.00 | AS | $1,049.89 | $8,399.12 |
| 653-1-11 | PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY | 8.00 | AS | $707.50 | $5,660.00 |
| 660-1-102 | LOOP DETECTOR INDUCTIVE, F&I, TYPE 2 | 8.00 | EA | $238.15 | $1,905.20 |
| 660-2-106 | LOOP ASSEMBLY, F&I, TYPE F | 8.00 | AS | $942.59 | $7,540.72 |
| 665-1-11 | PEDESTRIAN DETECTOR, F&I, STANDARD | 8.00 | EA | $231.11 | $1,848.88 |
| 670-5-111 | TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT | 1.00 | AS | $26,754.75 | $26,754.75 |
| 700-3-101 | SIGN PANEL, F&I GM, UP TO 12 SF | 4.00 | EA | $239.01 | $956.04 |
| 700-5-22 | INTERNAL ILLUM SIGN, F&I OM, 12-18 SF | 4.00 | EA | $3,582.50 | $14,330.00 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 649-21-15 | STEEL MAST ARM ASSEMBLY, F&I, 70' | 4.00 | EA | $50,845.54 | $203,382.16 |
| | **Signalizations Component Total** | | | | $295,564.96 |

**LIGHTING COMPONENT**

**Rural Lighting Subcomponent**

| Description | Value |
|---|---|
| Multiplier (Number of Poles) | 8 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 630-2-11 | CONDUIT, F& I, OPEN TRENCH | 1,600.00 | LF | $7.62 | $12,192.00 |
| 635-2-11 | PULL & SPLICE BOX, F&I, 13" x 24" | 8.00 | EA | $655.09 | $5,240.72 |
| 715-1-13 | LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2 | 4,800.00 | LF | $2.42 | $11,616.00 |
| 715-4-14 | LIGHT POLE COMPLETE, F&I-STD, 45' | 8.00 | EA | $6,068.86 | $48,550.88 |
| 715-500-1 | POLE CABLE DIST SYS, CONVENTIONAL | 8.00 | EA | $582.23 | $4,657.84 |
| | **Subcomponent Total** | | | | $82,257.44 |
| | **Lighting Component Total** | | | | $82,257.44 |

**Sequence 1 Total** $824,722.72

**Sequence:** 2 WUR - Widen/Resurface, Undivided, Rural **Net Length:** 0.116 MI 610 LF

**Description:** side road widen/resurface only, no drainage, lighting, or signal

## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 10.00 / 10.00 |
| Incidental Clearing and Grubbing Area | 0.00 |
| Alignment Number | 1 |
| Distance | 0.115 |
| Top of Structural Course For Begin Section | 102.00 |
| Top of Structural Course For End Section | 102.00 |
| Horizontal Elevation For Begin Section | 99.00 |
| Horizontal Elevation For End Section | 99.00 |
| Existing Front Slope L/R | 6 to 1 / 6 to 1 |
| Existing Outside Shoulder Cross Slope L/R | 6.00 % / 6.00 % |
| Front Slope L/R | 6 to 1 / 6 to 1 |
| Outside Shoulder Cross Slope L/R | 6.00 % / 6.00 % |
| Roadway Cross Slope L/R | 2.00 % / 2.00 % |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 0.28 | AC | $40,000.00 | $11,200.00 |
| 120-2-2 | BORROW EXCAVATION, TRUCK MEASURE | 355.77 | CY | $22.86 | $8,132.90 |
| | **Earthwork Component Total** | | | | $19,332.90 |

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Existing Roadway Pavement Width L/R | 12.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 80 |
| Widened Outside Pavement Width L/R | 6.00 / 6.00 |
| Widened Structural Spread Rate | 330 |
| Widened Friction Course Spread Rate | 80 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 160-4 | TYPE B STABILIZATION | 2,168.32 | SY | $6.60 | $14,310.91 |
| 285-709 | OPTIONAL BASE,BASE GROUP 09 | 857.84 | SY | $28.11 | $24,113.88 |
| 327-70-5 | MILLING EXIST ASPH PAVT, 2" AVG DEPTH | 1,626.24 | SY | $3.00 | $4,878.72 |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, TRAFFIC C | 134.16 | TN | $135.00 | $18,111.60 |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, TRAFFIC C | 134.16 | TN | $135.00 | $18,111.60 |
| 337-7-83 | ASPH CONC FC,TRAFFIC C,FC- | 65.05 | TN | $160.00 | $10,408.00 |

| | | | | |
|---|---|---|---|---|
| | 12.5,PG 76-22 | | | |
| 337-7-83 | ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 | 32.52 TN | $160.00 | $5,203.20 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 711-11-125 | THERMOPLASTIC, STD, WHITE, SOLID, 24" | 160.00 | LF | $4.31 | $689.60 |
| 711-11-141 | THERMOPLASTIC, STD, WHITE, DOT GUIDE, 6" | 0.05 | GM | $2,227.49 | $111.37 |
| 711-11-170 | THERMOPLASTIC, STD, WHITE, ARROW | 18.00 | EA | $71.06 | $1,279.08 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | N |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 2 |
| Solid Stripe No. of Stripes | 4 |
| Skip Stripe No. of Paint Applications | 2 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 16.00 | EA | $4.29 | $68.64 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.92 | GM | $986.62 | $907.69 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.23 | GM | $652.63 | $150.10 |
| | **Roadway Component Total** | | | | $98,344.39 |

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**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Existing Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| New Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Existing Paved Outside Shoulder Width L/R | 5.00 / 5.00 |
| New Paved Outside Shoulder Width L/R | 5.00 / 5.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 80 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 285-704 | OPTIONAL BASE,BASE GROUP 04 | 722.32 | SY | $16.14 | $11,658.24 |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, TRAFFIC C | 55.90 | TN | $135.00 | $7,546.50 |
| 337-7-83 | ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 | 27.10 | TN | $160.00 | $4,336.00 |

| | | | | | |
|---|---|---|---|---|---|
| 570-1-2 | PERFORMANCE TURF, SOD | 361.84 | SY | $4.00 | $1,447.36 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-10-3 | SEDIMENT BARRIER | 1,402.63 | LF | $3.25 | $4,558.55 |
| 104-11 | FLOATING TURBIDITY BARRIER | 11.55 | LF | $13.76 | $158.93 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 11.55 | LF | $7.34 | $84.78 |
| 104-15 | SOIL TRACKING PREVENTION DEVICE | 1.00 | EA | $3,420.12 | $3,420.12 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 | EA | $250.00 | $250.00 |
| 107-1 | LITTER REMOVAL | 0.28 | AC | $100.00 | $28.00 |
| 107-2 | MOWING | 0.28 | AC | $150.00 | $42.00 |
| | **Shoulder Component Total** | | | | $33,530.48 |

**Sequence 2 Total** $151,207.77

Date: 4/5/2019 3:47:07 PM

# FDOT Long Range Estimating System - Production

## R3: Project Details by Sequence Report

**Project:** 444099-1-52-01 **Letting Date:** 05/2022

**Description:** SR 10 (US 90) MOBILE HWY @ KLONDIKE ROAD INTERSECTION

**District:** 03 **County:** 48 ESCAMBIA **Market Area:** 01 **Units:** English
**Contract Class:** 7 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 0.360 MI

**Project Manager:** JORDAN BURNETT

**Version 1-P Project Grand Total** **$1,408,007.27**
**Description:** SR 10 (US 90) MOBILE HWY @ KLONDIKE ROAD INTERSECTION = 2019 6MU = 2/11/2019 = PR

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| | | | |
|---|---|---|---|
| **Project Sequences Subtotal** | | | **$975,930.49** |
| 102-1 | Maintenance of Traffic | 10.00 % | $97,593.05 |
| 101-1 | Mobilization | 10.00 % | $107,352.35 |
| **Project Sequences Total** | | | **$1,180,875.89** |
| Project Unknowns | | 15.00 % | $177,131.38 |
| Design/Build | | 0.00 % | $0.00 |

**Non-Bid Components:**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 999-25 | INITIAL CONTINGENCY AMOUNT (DO NOT BID) | | LS | $50,000.00 | $50,000.00 |
| **Project Non-Bid Subtotal** | | | | | **$50,000.00** |
| **Version 1-P Project Grand Total** | | | | | **$1,408,007.27** |

# FLORIDA DEPARTMENT OF TRANSPORTATION
# DISTRICT THREE TRAFFIC OPERATIONS

**DISTRICTWIDE TRAFFIC OPERATIONS STUDIES**
**TASK WORK ORDER NO. 9**

**CONTRACT NO: C-9L03**
**FDOT FINANCIAL ID NO: 22089823202**
**STUDY TYPE 1 – UNSIGNALIZED INTERSECTION**

# STATE ROAD 10A (US 90 / MOBILE HWY)
# AT
# MILLVIEW ROAD

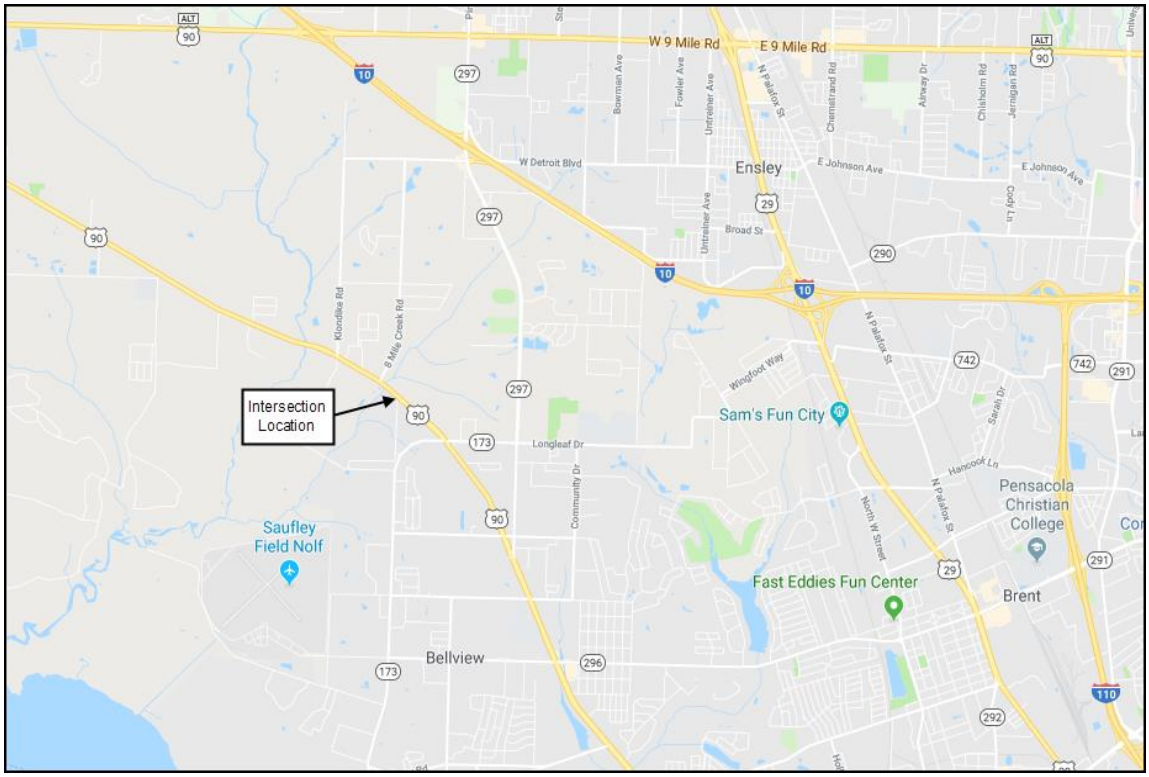
**COUNTY: ESCAMBIA**
**SECTION: 48020**
**MILEPOST: 6.149**

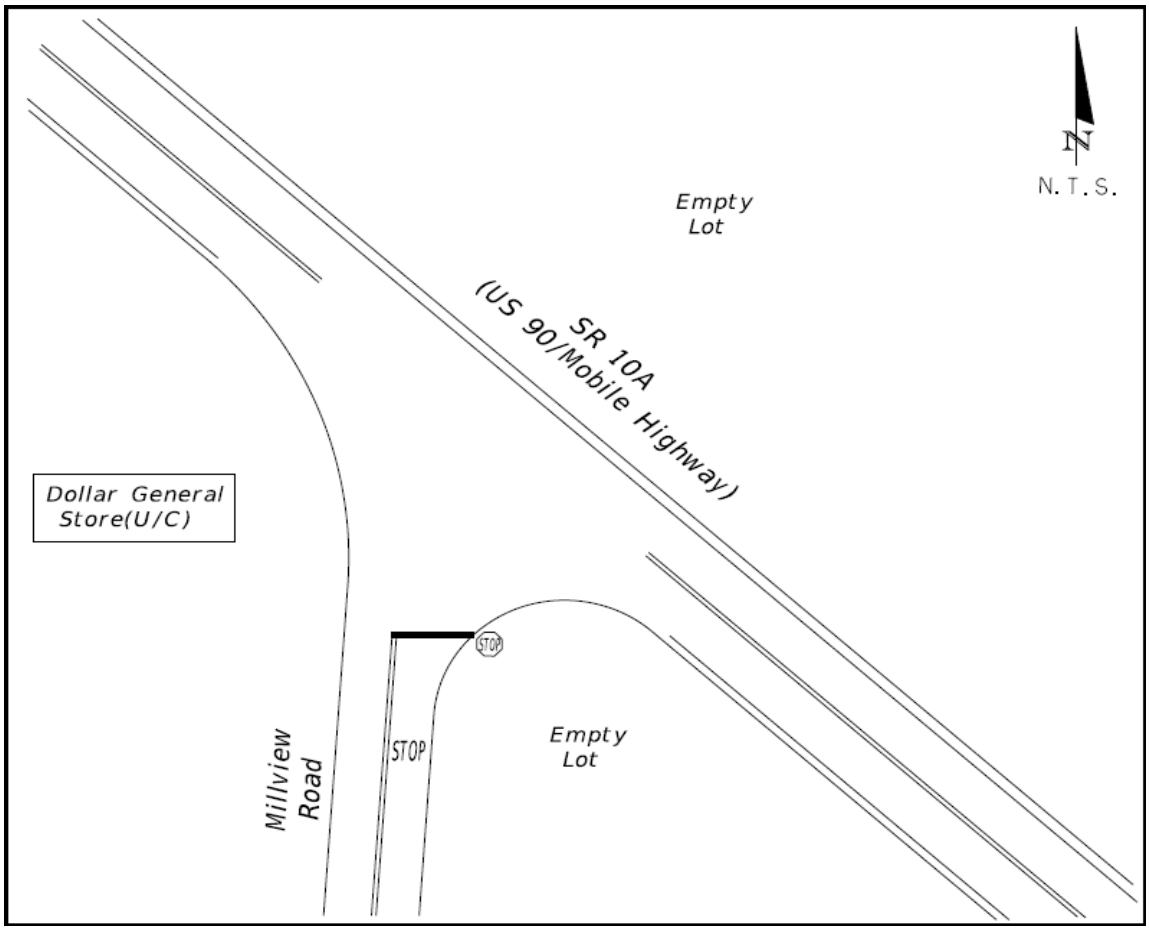
**PREPARED BY:**

**FLORIDA TRANSPORTATION ENGINEERING, INC. (FTE)**
**1369 S. RAILROAD AVENUE, SUITE D**
**CHIPLEY, FLORIDA 32428**

**PHILLIP KURTH, PE PTOE**
**SENIOR TRAFFIC ENGINEER**
**FL PE NO. 72434**
**12/17/2018**

# Location Map and Topography



## Executive Summary

The following is a synopsis of the conclusions and recommendations of the Traffic Operational Study performed for **State Road 10A (US 90 / Mobile Highway) at Millview Road** located in Escambia County.

**Conclusions:**

- There were seventeen (17) documented crashes reported by the CARS System as well as Signal Four Analytics within the last five (5) years.
- Four (4) of the reported collisions (24%) resulted in injury where one or more people required transportation to a medical facility which included a bicycle crash fatality in 2016.
- The 2016 bicycle fatality occurred approximately 550 feet west of the intersection. According to the crash narrative, the at-fault cyclist crossed the roadway into the path of the oncoming motorist
- There were six (6) right-angle collisions of which five (5) were determined to be failing to yield and one (1) running stop sign incidents.
- There were seven (7) loss of control incidents of which five (5) occurred on the eastbound approach and two (2) occurred on the westbound approach of State Road 10A.
- In the last five (5) years, the number of reported crashes at the subject intersection was greater than the statistical average of similar roadway facilities in District 3.
- Results from the delay analysis indicate that no excessive delay is being experienced at this time.
- According to the FDOT Generalized Tables, this segment of State Road 10A (US 90 / Mobile Highway) is operating at a LOS C in both the AM and PM peak period.
- The Criteria for MUTCD Warrant 1B (Eight Hour Volumes) and Warrant 2 (Four Hour Volumes) was satisfied given the existing volumes.
- An additional northbound side street lane may be considered at this time.
- According to the NCHRP Report 457 guidelines, a dedicated westbound left-turn lane is not warranted at this location given the current traffic volumes.
- According to the NCHRP Report 457 guidelines, a dedicated eastbound right-turn lane is warranted at this location given the current traffic volumes.
- A site visit was conducted on 9/10/2018. It was noted at that time that there is evidence of vehicle off-tracking on the northbound approach of Millview Road at State Road 10A (US 90 / Mobile Highway). There were no other apparent operational deficiencies that were noted at that time.
- The sight distance along State Road 10A (US 90 / Mobile Highway) is satisfactory from the driver's perspective on the side street approach.
- There are currently no projects listed on the FDOT Financial Project website which would include the subject intersection.

**Recommendations:**

- The Criteria for MUTCD Warrant 1B (Eight Hour Volumes) and Warrant 2 (Four Hour Volumes) was satisfied. However, it is not recommended to signalize this location at this time.
- It is recommended that Escambia County should consider constructing an exclusive 145-foot northbound right-turn lane on Millview Road at State Road 10A (US 90 / Mobile Highway).
- It is recommended that the Department should construct an exclusive 185-foot eastbound right-turn lane on State Road 10A (US 90 / Mobile Highway) at Millview Road per FDOT Standard Index 301.

## Introduction

This traffic engineering study was conducted to analyze the operation of the intersection of State Road 10A (US 90 / Mobile Highway) and Millview Road, located in Escambia County, and to determine if any operational improvements are needed at this location. The traffic data collected for the analysis consisted of ten (10) hour turning movement counts, fifteen minute delay samples, vehicular speed characteristics and the latest five (5) years of crash reports. The ten (10) hour turning movements were taken from 6:00 AM to 10:00 AM, from 11:00 AM to 1:00 PM, and from 2:00 PM to 6:00 PM. Of these ten (10) hours, **7:00 – 8:00 AM was determined to be the morning peak hour; and 4:30 – 5:30 PM was determined to be the evening peak hour**.

Various traffic engineering tools were used to evaluate this intersection. The data contained herein was evaluated using the following analytical tools and traffic engineering resources:

- Manual on Uniform Traffic Control Devices (MUTCD) Handbook, 2009 Edition with Revisions May 2012
- 2010 Highway Capacity Manual
- FDOT Quality / Level of Service Handbook
- Un-Signalized Intersection Delay Study
- NCHRP Report 457
- SYNCHRO / SimTraffic

## Site Characteristics

State Road 10A (US 90 / Mobile Highway) at Millview Road is an un-signalized intersection consisting of unrestricted movements east and west on State Road 10A. At this location, State Road 10A is a 2-lane undivided urban minor arterial with a posted speed limit of 45 mph. There are no dedicated turn lanes on either approach of State Road 10A. State Road 10A is an Access Class 4 Roadway with minimum signal spacing of 2,640 feet (0.50 mile). The nearest traffic signal to the east is approximately 0.52 miles away located at State Road 173 (Blue Angel Parkway). There are no traffic signals within two (2) miles west of the intersection.

The northbound approach of Millview Road is regulated by a STOP sign, STOP bar, and STOP pavement markings. Millview Road is a two-lane undivided local roadway with a posted speed limit of 40 mph. There are no dedicated turn lanes on Millview Road. The sight distance along State Road 10A is satisfactory from the driver's perspective on the northbound approach.

## Site Analysis

A spot speed study along State Road 10A (US 90 / Mobile Highway) was conducted at this location. Many speed characteristics were collected, measured, and computed for this study, such as the posted speed limit, eighty-fifth percentile speed, average speed, percent exceeding, and the highest speed obtained during the study. This data is presented in Table 1 on the following page:

| TABLE 1<br>SPEED DATA | | | | |
|---|---|---|---|---|
| Speed | | Westbound | Eastbound | Posted Speed Limit – 45 MPH |
| 85 PERCENTILE | (MPH) | 46.3 | 48 | Speed Study was conducted on SR 10A (US 90) at Millview Rd |
| AVERAGE | (MPH) | 44 | 45.9 | |
| HIGH | (MPH) | 50 | 55 | |
| PERCENT EXCEEDING | (%) | 33.02 | 53.77 | |

Historical crash information for the years 2013 through December 31, 2017 was obtained from the District 3 Safety Office through the CARS System as well as Signal Four Analytics for the un-signalized intersection of State Road 10A (US 90 / Mobile Highway) and Millview Road. Table 2 is a summary of the documented crash data:

**Table 2**
**COLLISION TYPE**

| Year | Left Turn | | | Rear End | | | Right Angle | | | Side Swipe | | | Loss of Control | | | Head-On | | | Pedestrian / Bike | | | Other | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2013 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2014 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2015 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2016 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 2017 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | | | 2 | | | 6 | | | 1 | | | 7 | | | 0 | | | 1 | | | 0 | | |
| TOTAL COLLISIONS | 17 | | | Property Damage Only | | | 13 | | | Injury | | | 3 | | | Fatality | | | 1 | | | | | |

**Four (4) of the seventeen (17) reported collisions (24%) resulted in injury where one or more people required transportation to a medical facility which included a bicycle crash fatality in 2016.** The 2016 fatality occurred approximately 550 feet west of the intersection and according to the crash narrative, the at-fault cyclist crossed the roadway into the path of the oncoming motorist. The six (6) right-angle collisions were a result of: five (5) failing to yield and one (1) running stop sign. Five (5) of the seven (7) loss of control incidents occurred on the eastbound approach and the remaining incidents occurred on the westbound approach of State Road 10A. Detailed crash diagrams may be found in the study appendix.

Table 3 depicts the results of a statistical analysis of crash rates at similar roadway facilities in District 3 over the last five (5) years. The subject crash rates are based on crashes per estimated million vehicles entering the State System by intersection type. **In the last five (5) years, the number of reported crashes at State Road 10A (US 90 / Mobile Highway) and Millview Road was greater than the statistical average of similar roadway facilities in District 3.**

| TABLE 3<br>FDOT District 3 Crash Statistics Analysis | |
|---|---|
| Vehicles per Day Entering Intersection = | 14,493 |
| Million Vehicles per Year Entering Intersection = | 5.290 |
| Statistical Crash Rate per Million Vehicles = | 0.174 |
| Reported Crashes in Last Five (5) Years = | 17 |
| Anticipated Number of Crashes per Year = | 0.92 |
| **Actual Number of Reported Crashes per Year =** | **3.40** |

**SR 10A (US 90 / Mobile Hwy) at Millview Rd.**
**Section No. 48020, Escambia County**
**December 17, 2018**

Four 15-minute delay samples were collected for the westbound left-turn movements on State Road 10A (US 90 / Mobile Highway) as well as all northbound movements on Millview Road. Two of the four 15-minute delay samples were taken during the peak hours. These delays and computed average delays are shown in Table 4. Results from the delay analysis indicate that no excessive delay is being experienced at this time.

## TABLE 4
## UNSIGNALIZED INTERSECTION DELAY STUDY

| WESTBOUND MOVEMENTS (LEFTS) | | | | | NORTHBOUND MOVEMENTS (ALL) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | | AVERAGE VEHICULAR DELAY | | LEVEL OF SERVICE * | TIME | | AVERAGE VEHICULAR DELAY | | LEVEL OF SERVICE * |
| BEGIN | END | STOPPED (SECS/VEH) | APPROACH (SECS/VEH) | | BEGIN | END | STOPPED (SECS/VEH) | APPROACH (SECS/VEH) | |
| 7:30 am | 7:45 am | 7.00 | 4.20 | A | 7:45 am | 8:00 am | 23.02 | 23.02 | C |
| 8:00 am | 8:15 am | 10.50 | 10.50 | B | 8:15 am | 8:30 am | 14.03 | 11.84 | B |
| 4:00 pm | 4:15 pm | 5.00 | 5.00 | A | 4:15 pm | 4:30 pm | 18.53 | 18.53 | C |
| 4:30 pm | 4:45 pm | 19.00 | 19.00 | C | 4:45 pm | 5:00 pm | 16.08 | 15.67 | C |
| TOTAL | | 41.50 | 38.70 | | TOTAL | | 71.66 | 69.06 | |
| AVERAGE | | 10.38 | 9.68 | A | AVERAGE | | 17.92 | 17.27 | C |
| APPROACH VOLUME (VEH in 10 hrs) | | 32 | | | APPROACH VOLUME (VEH in 10 hrs) | | 1262 | | |
| VEHICULAR DELAY (VEH-HRS) | | 0.09 | 0.09 | | VEHICULAR DELAY (VEH-HRS) | | 6.28 | 6.05 | |
| | | | | | | | | | |
| TIME | | AVERAGE VEHICULAR DELAY | | LEVEL OF SERVICE * | TIME | | AVERAGE VEHICULAR DELAY | | LEVEL OF SERVICE * |
| BEGIN | END | STOPPED (SECS/VEH) | APPROACH (SECS/VEH) | | BEGIN | END | STOPPED (SECS/VEH) | APPROACH (SECS/VEH) | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TOTAL | | | | | TOTAL | | | | |
| AVERAGE | | | | | AVERAGE | | | | |
| APPROACH VOLUME (VEH in 10 hrs) | | | | | APPROACH VOLUME (VEH in 10 hrs) | | | | |
| VEHICULAR DELAY (VEH-HRS) | | | | | VEHICULAR DELAY (VEH-HRS) | | | | |

| TOTAL INTERSECTION DELAY | | | | | |
|---|---|---|---|---|---|
| VEHICULAR DELAY | WESTBOUND | NORTHBOUND | | | TOTAL |
| STOPPED (VEH-HRS) | 0.09 | 6.28 | 0.00 | 0.00 | 6.37 |
| APPROACH (VEH-HRS) | 0.09 | 6.05 | 0.00 | 0.00 | 6.14 |

*** Level of Service (LOS) is stated in terms of the average approach delay per vehicle. Exhibit 19-1 in the *2010 Highway Capacity Manual* is used to compute the LOS.**

Ten (10) hour turning movements were taken on 9/10/2018 using Miovision video data collection units. The vehicular turning movements were collected from 6:00 AM to 10:00 AM, from 11:00 AM to 1:00 PM, and from 2:00 PM to 6:00 PM. Of these ten (10) hours, 7:00 – 8:00 AM was determined to be the morning peak hour; and 4:30 – 5:30 PM was determined to be the evening peak hour. Table 5 denotes the hourly breakdown of traffic volumes of the subject intersection.

**TABLE 5**
**10-HOUR TURNING MOVEMENTS**

| TIME | EASTBOUND SR 10A | | | WESTBOUND SR 10A | | | NORTHBOUND Millview Rd | | | SOUTHBOUND | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LEFT | THRU | RIGHT | LEFT | THRU | RIGHT | LEFT | THRU | RIGHT | LEFT | THRU | RIGHT |
| 6:00 AM 7:00 AM | | 345 | 122 | 2 | 193 | | 165 | | 4 | | | |
| 7:00 AM 8:00 AM | | 576 | 182 | 2 | 352 | | 193 | | 9 | | | |
| 8:00 AM 9:00 AM | | 360 | 101 | 6 | 311 | | 128 | | 3 | | | |
| 9:00 AM 10:00 AM | | 276 | 80 | 1 | 248 | | 96 | | 4 | | | |
| 11:00 AM 12:00noon | | 215 | 70 | 1 | 239 | | 81 | | 3 | | | |
| 12:00noon 1:00 PM | | 228 | 67 | 5 | 265 | | 67 | | 2 | | | |
| 2:00 PM 3:00 PM | | 336 | 125 | 5 | 311 | | 86 | | 9 | | | |
| 3:00 PM 4:00 PM | | 282 | 137 | 4 | 471 | | 119 | | 6 | | | |
| 4:00 PM 5:00 PM | | 371 | 206 | 3 | 530 | | 148 | | 7 | | | |
| 5:00 PM 6:00 PM | | 330 | 207 | 3 | 516 | | 128 | | 4 | | | |
| TOTAL | 0 | 3319 | 1297 | 32 | 3436 | 0 | 1211 | 0 | 51 | 0 | 0 | 0 |

The Peak Hour Two-Way Volumes on State Road 10A (US 90 / Mobile Highway) were analyzed using the Generalized Tables published in the *FDOT Quality / Level of Service Handbook* for Principal State Signalized Arterials. Table 6 denotes the results of the LOS Analysis.

**TABLE 6**
**QUALITY / LEVEL OF SERVICE**

| Analysis Period | Two-Way Volume | LOS |
|---|---|---|
| AM Peak | 1112 | C |
| PM Peak | 1201 | C |

The ten (10) hour turning movement volumes were also analyzed using the nine MUTCD Warrants for traffic signal installation published in Section 4C.01 of the *2009 Manual of Uniform Traffic Control Devices*. Individual Warrants that were performed for this location may be found in the study appendix. **The Criteria for MUTCD Warrant 1B (Eight Hour Volumes) and Warrant 2 (Four Hour Volumes) was satisfied.**

**TABLE 7**
**TRAFFIC SIGNAL WARRANT SUMMARY EVALUATION**

| | | WARRANT SATISFIED | | |
|---|---|---|---|---|
| **WARRANT NUMBER** | **DESCRIPTON** | **YES** | **NO** | **NOT APPLICABLE** |
| **1A** | **EIGHT HOUR VEHICULAR VOLUME (80% Threshold Met)** | | **X** | |
| **1B** | **EIGHT HOUR VEHICULAR VOLUME** | **X** | | |
| **2** | **FOUR HOUR VEHICULAR VOLUME** | **X** | | |
| **3** | **PEAK HOUR** | | | **X** |
| **4** | **PEDESTRIAN VOLUME** | | | **X** |
| **5** | **SCHOOL CROSSING** | | | **X** |
| **6** | **COORDINATED SYSTEMS WARRANT** | | | **X** |
| **7** | **CRASH EXPERIENCE** | | **X** | |
| **8** | **ROADWAY NETWORK** | | | **X** |
| **9** | **INTERSECTION NEAR A GRADE CROSSING** | | | **X** |

Figure 2-4 of NCHRP Report 457 was used to determine the appropriateness of additional turn lanes on the minor side street approach of Millview Road. This analysis was performed during the critical volume hours at this location in both the AM and PM peak periods. As depicted in the following Figure, **an additional northbound side street lane may be considered at this time.** The results of the analysis are depicted in Table 8:

**TABLE 8**
**ADDITIONAL SIDE STREET LANE EVALUATION**

**Figure 2 - 4. Guideline for determining minor-road approach geometry at two-way stop-controlled intersections.**

INPUT

| Variable | Value |
|---|---|
| Major-road volume (total of both directions), veh/h: | 1112 |
| Percentage of right-turns on minor road, %: | 4% |
| Minor-road volume (one direction), veh/h: | 202 |

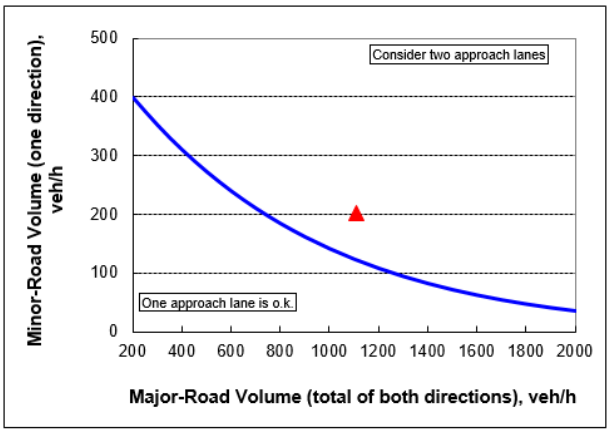
OUTPUT

| Variable | Value |
|---|---|
| Limiting minor-road volume (one direction), veh/h: | 121 |
| **Guidance for determining minor-road approach geometry:** | |
| **Consider TWO approach lanes** | |

CALIBRATION CONSTANTS

| Minor Road | Critical gap, s: | Follow-up gap, s: |
|---|---|---|
| Right-turn capacity, veh/h: | 6.2 | 3.3 |
| Left-turn and through capacity, veh/h: | 6.5 | 4.0 |

* according to Table 17 - 5 of the HCM



A left-turn lane analysis was conducted utilizing Figure 2-5 NCHRP Report 457 to determine the need and appropriateness of a left-turn bay for the westbound approach of State Road 10A (US 90 / Mobile Highway) at Millview Road. This analysis was performed during the critical hour of potential vehicular conflicts at this location. According to the NCHRP Report 457 guidelines, **a dedicated left-turn lane is not warranted for the westbound approach of State Road 10A (US 90 / Mobile Highway) at Millview Road given the current traffic volumes**. The results of the analysis are depicted in Table 9:

**TABLE 9**
**WESTBOUND LEFT-TURN EVALUATION**

**Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.**

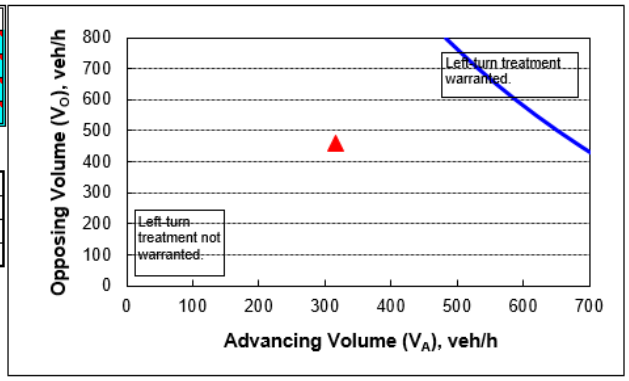
**2-lane roadway (English)**

INPUT

| Variable | Value |
|---|---|
| 85th percentile speed, mph: | 46 |
| Percent of left-turns in advancing volume ($V_A$), %: | 2% |
| Advancing volume ($V_A$), veh/h: | 317 |
| Opposing volume ($V_O$), veh/h: | 461 |

OUTPUT

| Variable | Value |
|---|---|
| Limiting advancing volume ($V_A$), veh/h: | 679 |
| **Guidance for determining the need for a major-road left-turn bay:** | |
| **Left-turn treatment NOT warranted.** | |




CALIBRATION CONSTANTS

| Variable | Value |
|---|---|
| Average time for making left-turn, s: | 3.0 |
| Critical headway, s: | 5.0 |
| Average time for left-turn vehicle to clear the advancing lane, s: | 1.9 |

A right-turn lane analysis was conducted utilizing Figure 2-6 NCHRP Report 457 to determine the need and appropriateness of a full length right-turn bay for the eastbound approach of State Road 10A (US 90 / Mobile Highway) at Millview Road. This analysis was performed during the critical volume hours at this location. According to Report 457, **a full length right-turn lane is justified for the eastbound approach of State Road 10A (US 90 / Mobile Highway) at Millview Road given the current traffic volumes**. The results of the analysis are depicted in Table 10:

**TABLE 10**
**EASTBOUND RIGHT-TURN LANE EVALUATION**

**Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.**

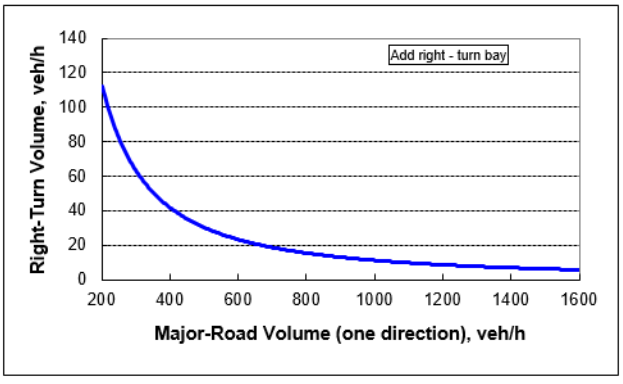
INPUT

| Roadway geometry: | 2-lane roadway |
|---|---|

| Variable | Value |
|---|---|
| Major-road speed, mph: | 48 |
| Major-road volume (one direction), veh/h: | 636 |
| Right-turn volume, veh/h: | 243 |

OUTPUT

| Variable | Value |
|---|---|
| Limiting right-turn volume, veh/h: | 21 |
| **Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:** | |
| **Add right-turn bay.** | |



## Field Observations

A site visit was conducted on 9/10/2018. It was noted at that time that there is evidence of vehicle off-tracking on the northbound approach of Millview Road at State Road 10A (US 90 / Mobile Highway). There were no other apparent operational deficiencies that were noted at that time. The following Exhibits illustrate the sight distance along State Road 10A (US 90 / Mobile Highway) at Millview Road.

**EXHIBIT 1**
**NORTHBOUND MILLVIEW ROAD LOOKING EAST**

**EXHIBIT 2**
**NORTHBOUND MILLVIEW ROAD LOOKING WEST**

## Step 1 Roundabout Screening

A Step 1 – Roundabout Screening was performed for the intersection of State Road 392A (Hutchison Boulevard) and Palm Cove.

1. Does the intersection have physical or geometric constraints that would limit visibility or complicate construction?
    a. Yes. There is less than 45 degree skew between Millview Road and State Road 10A (US 90 / Mobile Highway).
2. Does the major roadway AADT exceed 90% of the total intersection AADT?
    a. No.
3. Does the intersection have pedestrians with special needs that would have difficulty crossing the road?
    a. No.
4. Is the intersection located within a coordinated signal network?
    a. No.
5. Is there downstream traffic control or conditions that could cause queues to back up into the intersection?
    a. No.
6. Would the relocation of residences or businesses be required?
    a. No.

## Work Program

A Financial Project Search was conducted for State Road 10A (US 90 / Mobile Highway). There are currently no projects listed on the FDOT website which would include the subject intersection.

## Conclusions & Recommendations

The Criteria for MUTCD Warrant 1B (Eight Hour Volumes) and Warrant 2 (Four Hour Volumes) was satisfied. However, it is not recommended to signalize this location at this time.

It is recommended that Escambia County should consider constructing an exclusive 145-foot northbound right-turn lane on Millview Road at State Road 10A (US 90 / Mobile Highway).

It is recommended that the Department should construct an exclusive 185-foot eastbound right-turn lane on State Road 10A (US 90 / Mobile Highway) at Millview Road per FDOT Standard Index 301.

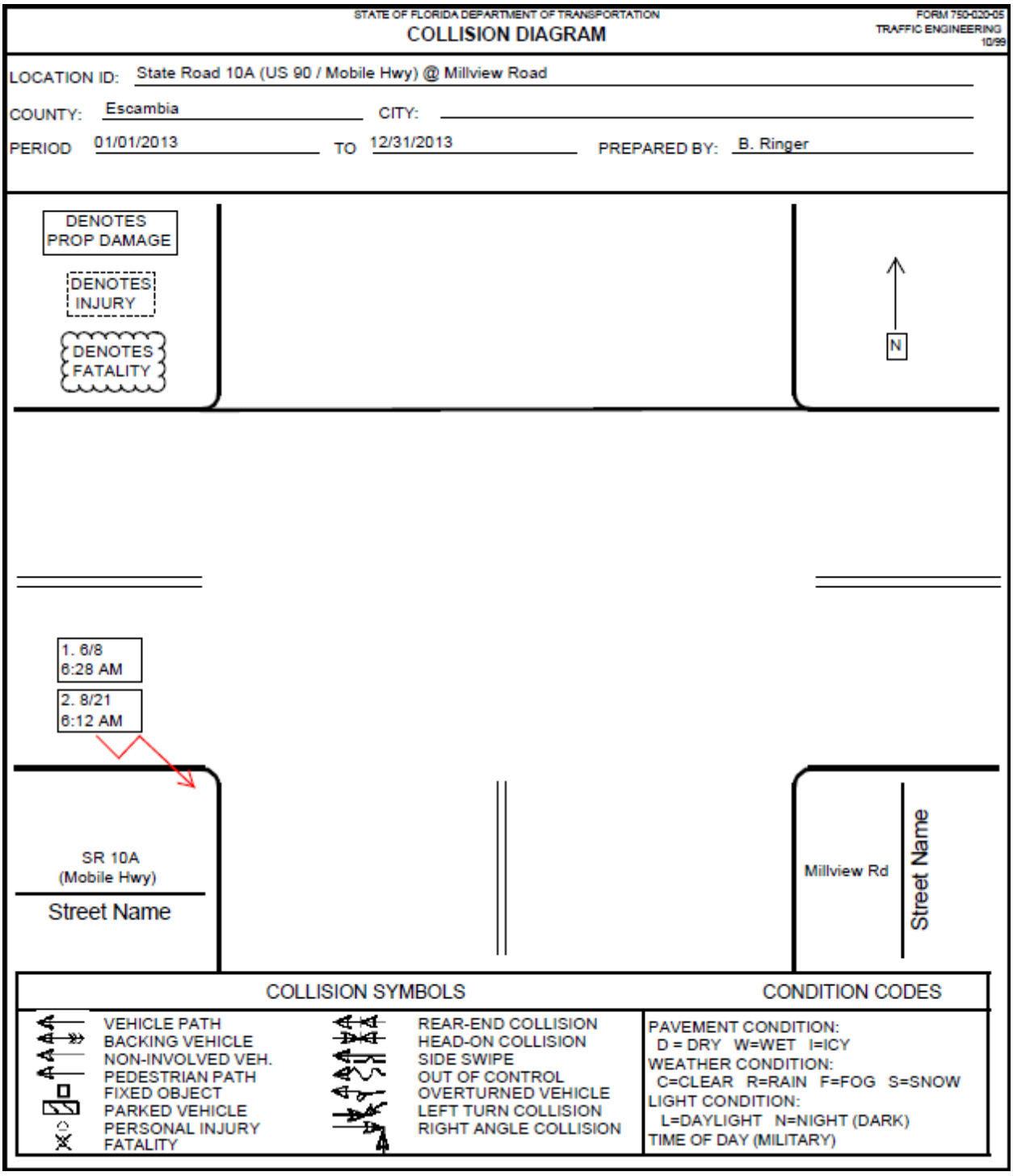
Phillip Kurth, PE PTOE
12/17/2018

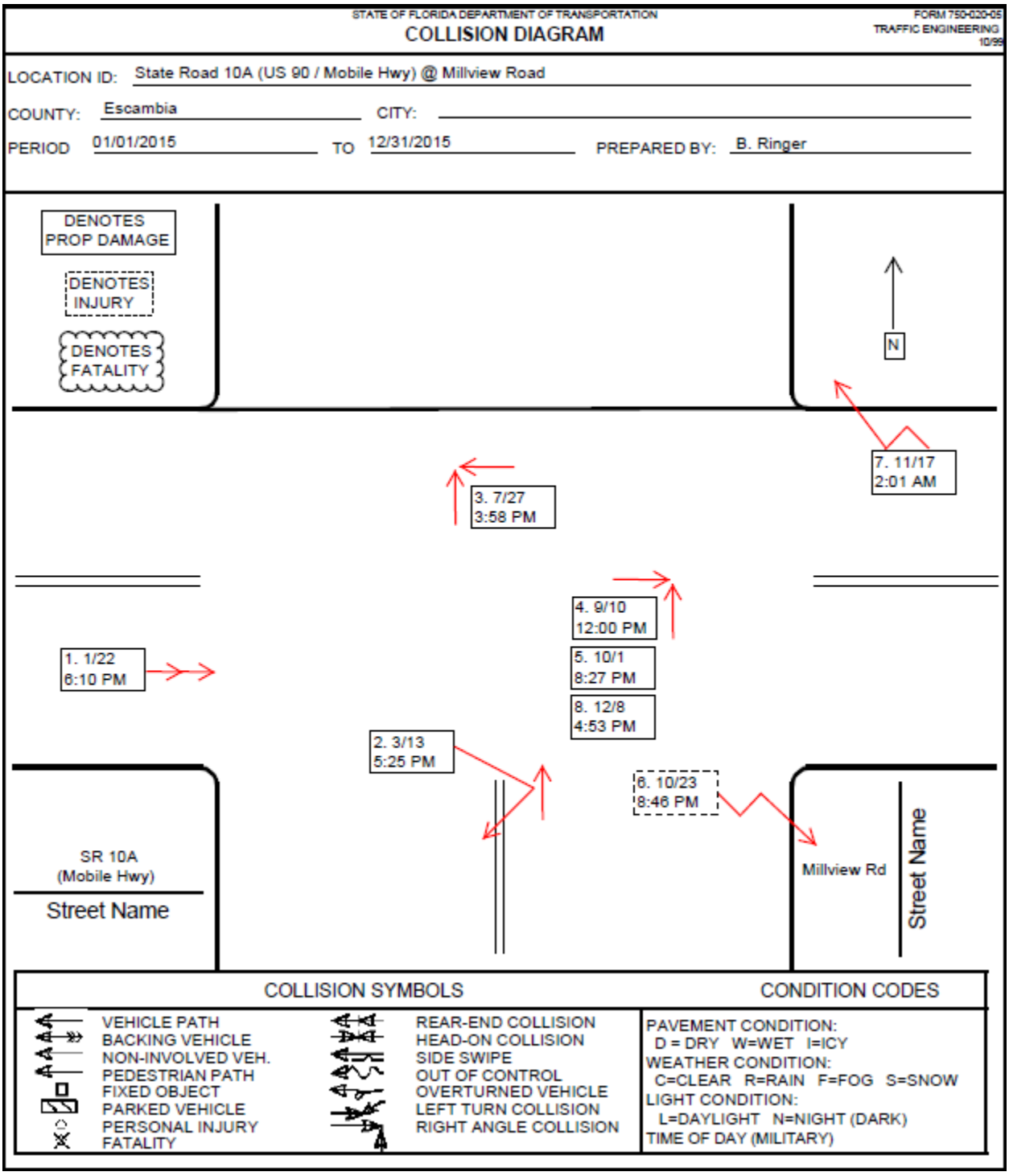
# APPENDIX

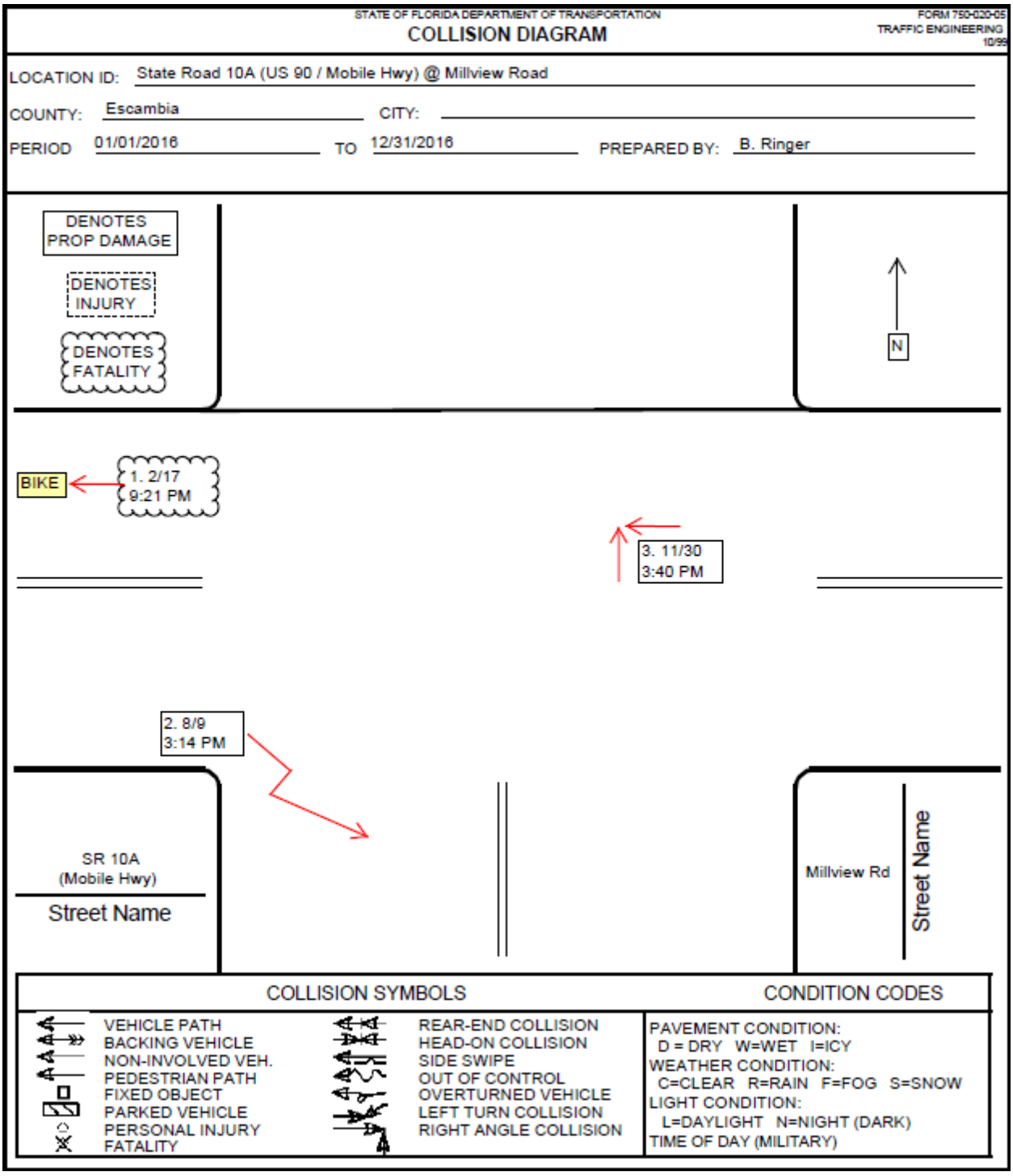
LOOKING EAST

LOOKING WEST

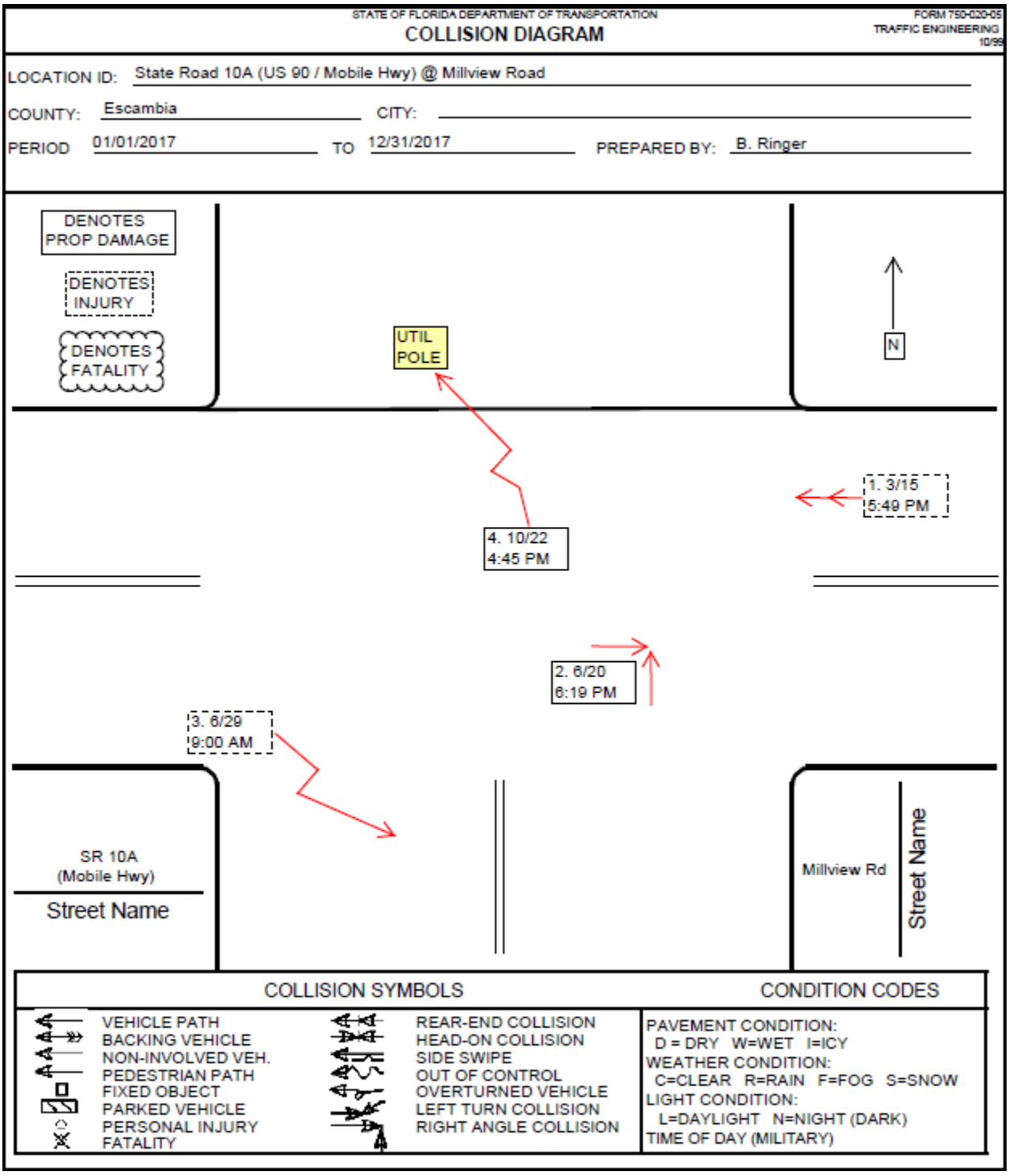
LOOKING NORTH


STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
COLLISION DIAGRAM
FORM 750-020-05
TRAFFIC ENGINEERING
10/99
LOCATION ID: State Road 10A (US 90 / Mobile Hwy) @ Millview Road
COUNTY: Escambia
CITY:
PERIOD 01/01/2013 TO 12/31/2013
PREPARED BY: B. Ringer
DENOTES PROP DAMAGE
DENOTES INJURY
DENOTES FATALITY
N
1. 6/8 6:28 AM
2. 8/21 6:12 AM
SR 10A (Mobile Hwy)
Street Name
Millview Rd
Street Name
COLLISION SYMBOLS
VEHICLE PATH
BACKING VEHICLE
NON-INVOLVED VEH.
PEDESTRIAN PATH
FIXED OBJECT
PARKED VEHICLE
PERSONAL INJURY
FATALITY
REAR-END COLLISION
HEAD-ON COLLISION
SIDE SWIPE
OUT OF CONTROL
OVERTURNED VEHICLE
LEFT TURN COLLISION
RIGHT ANGLE COLLISION
CONDITION CODES
PAVEMENT CONDITION:
D = DRY W=WET I=ICY
WEATHER CONDITION:
C=CLEAR R=RAIN F=FOG S=SNOW
LIGHT CONDITION:
L=DAYLIGHT N=NIGHT (DARK)
TIME OF DAY (MILITARY)


STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
COLLISION DIAGRAM
FORM 750-020-05
TRAFFIC ENGINEERING
10/99
LOCATION ID: State Road 10A (US 90 / Mobile Hwy) @ Millview Road
COUNTY: Escambia
CITY:
PERIOD 01/01/2015 TO 12/31/2015
PREPARED BY: B. Ringer
DENOTES PROP DAMAGE
DENOTES INJURY
DENOTES FATALITY
N
7. 11/17 2:01 AM
3. 7/27 3:58 PM
4. 9/10 12:00 PM
5. 10/1 8:27 PM
8. 12/8 4:53 PM
1. 1/22 6:10 PM
2. 3/13 5:25 PM
6. 10/23 8:46 PM
SR 10A (Mobile Hwy)
Street Name
Millview Rd
Street Name
COLLISION SYMBOLS
VEHICLE PATH
BACKING VEHICLE
NON-INVOLVED VEH.
PEDESTRIAN PATH
FIXED OBJECT
PARKED VEHICLE
PERSONAL INJURY
FATALITY
REAR-END COLLISION
HEAD-ON COLLISION
SIDE SWIPE
OUT OF CONTROL
OVERTURNED VEHICLE
LEFT TURN COLLISION
RIGHT ANGLE COLLISION
CONDITION CODES
PAVEMENT CONDITION:
D = DRY W=WET I=ICY
WEATHER CONDITION:
C=CLEAR R=RAIN F=FOG S=SNOW
LIGHT CONDITION:
L=DAYLIGHT N=NIGHT (DARK)
TIME OF DAY (MILITARY)


STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
COLLISION DIAGRAM
FORM 750-020-05
TRAFFIC ENGINEERING
10/99
LOCATION ID: State Road 10A (US 90 / Mobile Hwy) @ Millview Road
COUNTY: Escambia
CITY:
PERIOD 01/01/2016 TO 12/31/2016
PREPARED BY: B. Ringer
DENOTES PROP DAMAGE
DENOTES INJURY
DENOTES FATALITY
N
BIKE
1. 2/17 9:21 PM
3. 11/30 3:40 PM
2. 8/9 3:14 PM
SR 10A (Mobile Hwy)
Street Name
Millview Rd
Street Name
COLLISION SYMBOLS
VEHICLE PATH
BACKING VEHICLE
NON-INVOLVED VEH.
PEDESTRIAN PATH
FIXED OBJECT
PARKED VEHICLE
PERSONAL INJURY
FATALITY
REAR-END COLLISION
HEAD-ON COLLISION
SIDE SWIPE
OUT OF CONTROL
OVERTURNED VEHICLE
LEFT TURN COLLISION
RIGHT ANGLE COLLISION
CONDITION CODES
PAVEMENT CONDITION:
D = DRY W=WET I=ICY
WEATHER CONDITION:
C=CLEAR R=RAIN F=FOG S=SNOW
LIGHT CONDITION:
L=DAYLIGHT N=NIGHT (DARK)
TIME OF DAY (MILITARY)

**SR 10A (US 90 / Mobile Hwy) at Millview Rd.**
**Section No. 48020, Escambia County**
**December 17, 2018**



**SR 10A (US 90 / Mobile Hwy) at Millview Rd.**
**Section No. 48020, Escambia County**
**December 17, 2018**

## MUTCD Warrant No. 1 Eight- Hour Vehicular Volume Condition A

| | | |
|---|---|---|
| Major Street: S.R. 10A (US 90 / Mobile Hwy) | No. of Approach Lanes: 1 | Engineer Technician: Phillip Kurth |
| Minor Street: Millview Road | No. of Approach Lanes: 1 | Date: 9/17/2018 |
| City: | | County: Escambia |
| Major Street 85% speed > 40 MPH Yes ( X ) No ( ) | | Isolated Community < 10,000 Population Yes ( ) No ( X ) |

| | Minimum Vehicles/ Hr. ( 80% in Brackets ) | | | | Hour Volumes | | | | | | | | | | | | | Volumes Met | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Requirement | 100% | 70% | 100% | 70% | | | | | | | | | | | | | | | |
| Approach Lanes | 1 | | 2 or more | | 6-7am | 7-8am | 8-9am | 9-10am | 10-11am | 11-12am | 12-1pm | 1-2pm | 2-3pm | 3-4pm | 4-5pm | 5-6pm | 6- 7pm | Yes | No |
| Both Approaches on Major Street | 500 (400) | **350 (280)** | 600 (480) | 420 (336) | **662** | **1112** | **778** | **605** | | **525** | **632** | | **777** | **894** | **1110** | **1056** | | X | |
| AND Highest Approach on Minor Street (Thrus & Lefts) | 150 (120) | **105 (84)** | 200 (160) | 140 (112) | **165** | **193** | **128** | **96** | | **81** | **67** | | **86** | **119** | **148** | **128** | | | X |
| | No Excessive delay or conflict entering the major street **25 %** of Right Turns Added | | | | | | | | | | | | | | | | | | |
| Adjusted Minor Street Movement | | | | | **166** | **195** | **129** | **97** | | **82** | **68** | | **88** | **121** | **150** | **129** | | | X |

| | |
|---|---|
| 6 | Hours Meeting Threshold |

| | | |
|---|---|---|
| Warrant Satisfied | Yes ( ) | No ( **X** ) |
| ( 80% Volumes Met ) | Yes ( **X** ) | No ( ) |

## MUTCD Warrant No. 1 Eight-Hour Vehicular Volume Condition B (25% Right-Turns Added)

| | | |
|---|---|---|
| Major Street: S.R. 10A (US 90 / Mobile Hwy) | No. of Approach Lanes: 1 | Engineer Technician: Phillip Kurth |
| Minor Street: Millview Road | No. of Approach Lanes: 1 | Date: 9/17/2018 |
| City: | | County: Escambia |
| Major Street 85% speed > 40 MPH Yes ( X ) No ( ) | | Isolated Community < 10,000 Population Yes ( ) No ( X ) |

| | Minimum Vehicles/ Hr. ( 80% in Brackets ) | | | | Hour Volumes | | | | | | | | | | | | | Volumes Met | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Requirement | 100% | 70% | 100% | 70% | | | | | | | | | | | | | | | |
| Approach Lanes | 1 | | 2 or more | | 6-7am | 7-8am | 8-9am | 9-10am | 10-11am | 11-12am | 12-1pm | 1-2pm | 2-3pm | 3-4pm | 4-5pm | 5-6pm | 6- 7pm | Yes | No |
| Both Approaches on Major Street | 750 (600) | **525 (420)** | 900 (720) | 630 (504) | **662** | **1112** | **778** | **605** | | **525** | **632** | | **777** | **894** | **1110** | **1056** | | X | |
| AND Adjusted Minor Street Movement | 75 (60) | **53 (42)** | 100 (80) | 70 (56) | **166** | **195** | **129** | **97** | | **82** | **68** | | **88** | **121** | **150** | **129** | | X | |

| | | | |
|---|---|---|---|
| AND | Will a traffic signal seriously disrupt progressive traffic flow on major street? | Yes ( X ) | No ( ) |

| | |
|---|---|
| 10 | Hours Meeting Threshold |

| | | |
|---|---|---|
| Warrant Satisfied | Yes ( X ) | No ( ) |
| ( 80% Volumes Met ) | Yes ( X ) | No ( ) |

# MUTCD Warrant 2 - Four Hour Vehicular Volume

City: _____ Engineer Technician: **Phillip Kurth**
County: **Escambia** Date: **September 17, 2018**

Major Street: **SR 10A (US 90 / Mobile Hwy)** Lanes: **1** Critical Approach Speed: **48**
Minor Street: **Millview Road** Lanes: **1**

**Volume Level Criteria**

1. Is the critical speed of major street traffic > 70 km/h (40 mph) ? ☒ Yes ☐ No
2. Is the intersection in a built-up area of isolated community of <10,000 population? ☐ Yes ☒ No

If Question 1 or 2 above is answered "Yes", then use "70%" volume level ☒ 70% ☐ 100%

**WARRANT 2 - FOUR-HOUR VEHICULAR VOLUME**

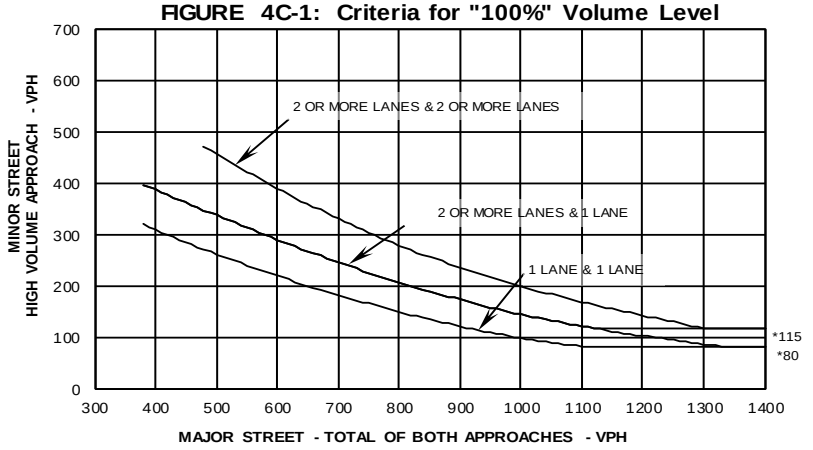
*If all four points lie above the appropriate line, then the warrant is satisfied.*

Applicable: ☒ Yes ☐ No
Satisfied: ☒ Yes ☐ No

*Plot four volume combinations on the applicable figure below.*

| Four Highest Hours | Volumes | |
|---|---|---|
| | Major Street | Minor Street |
| 6:00 AM 7:00 AM | 662 | 166 |
| 7:00 AM 8:00 AM | 1,112 | 195 |
| 4:00 PM 5:00 PM | 1,110 | 150 |
| 5:00 PM 6:00 PM | 1,056 | 129 |

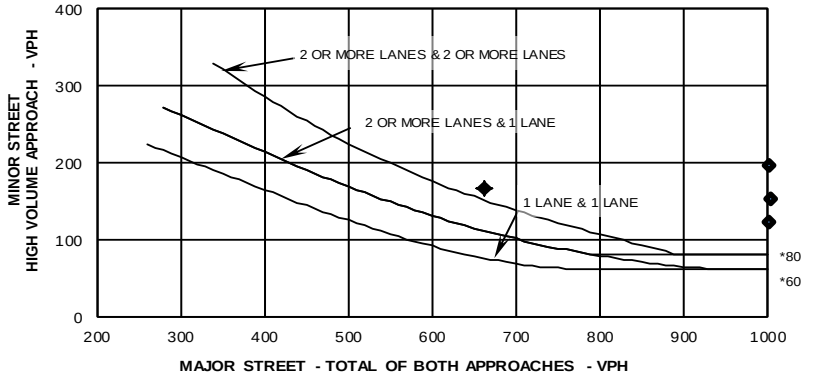
**FIGURE 4C-1: Criteria for "100%" Volume Level**




*Note: *115 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 80 vph applies as the lower threshold volume threshold for a minor street approach with one lane.*

**FIGURE 4C-2: Criteria for "70%" Volume Level**

(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)




*Note: *80 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 60 vph applies as the lower threshold volume threshold for a minor street approach with one lane.*

Source: Revised from NCHRP Report 457

## MUTCD Warrant 7 - Crash Experience

| | | |
|---|---|---|
| Major Street: S.R. 10A (US 90 / Mobile Hwy) | No. of Approach Lanes: 1 | Engineer Technician: Phillip Kurth |
| Minor Street: Millview Road | No. of Approach Lanes: 1 | Date: 9 / 17 / 2018 |
| City: | | County: Escambia |
| Major Street 85% speed > 40 MPH Yes ( X ) No ( ) | | Isolated Community < 10,000 Population Yes ( ) No ( X ) |

| | Minimum Requirements | Warrant | Met YES | Met NO | Fulfilled Yes | Fulfilled No |
|---|---|---|---|---|---|---|
| | 1. One of the warrants to the right is met | Warrant #1 - Condition A - Minimum Vehicle Volume (80% satisified) **OR** | X | | X | |
| | | Warrant #1 - Condition B - Minimum Vehicle Volume (80% satisified) **OR** | X | | | |
| | | Warrant #4 - Pedestrian Volume 80 ped/hr for 4 hrs. or 152 ped/hr for 1 hr | | **N/A** | | |
| **AND** | 2. Adequate trial of less restrictive remedies and enforcement has failed to reduce crash frequency. | Measure tried: NA | | | | **X** |
| **AND** | Five or more reported crashes, of types susceptible to correction by traffic signal have occurred within a 12-month period: **2013/0, 2014/0, 2015/4, 2016/1 and 2017/1** | | | | | **X** |

**Warrant Satisfied Yes ( ) No ( X )**

# FLORIDA DEPARTMENT OF TRANSPORTATION
# STEP 1 - ROUNDABOUT SCREENING

| | | | |
|---|---|---|---|
| **Prepared by:** | *Phillip Kurth, PE PTOE* | **Date Prepared:** | *12/17/2018* |
| **Financial Project ID:** | *220898-2-32-02* | **Project Name:** | *Traffic Operations Studies* |
| **FAP No.:** | | **State Road:** | *SR 10A (US 90 / Mobile Highway)* |
| **County:** | *Escambia* | **Intersecting Road:** | *Millview Road* |

## EXISTING CONTROL/PROJECT CLASSIFICATION

Control: ☐ Signal ☐ All Way Stop ■ 2 Way Stop ☐ Yield ☐ None

Classification: ☐ Design. ■ Traffic Operations ☐ Other

## SCREENING CRITERIA

| | | | |
|---|---|---|---|
| 1. | Does the intersection have physical or geometric constraints that would limit visibility or complicate construction? *(comment below if "yes")* *There is less than 45 degree skew between Millview Road and State Road 10A (US 90 / Mobile Highway).* | ■ yes | ☐ no |
| 2. | Does the major roadway AADT exceed 90% of the total intersection AADT? *(comment below if "yes")* | ☐ yes | ■ no |
| 3. | Does the intersection have pedestrians with special needs that would have difficulty crossing the road? *(comment below if "yes")* | ☐ yes | ■ no |
| 4. | Is the intersection located within a coordinated signal network? *(comment below if "yes")* | ☐ yes | ■ no |
| 5. | Is there downstream traffic control or conditions that could cause queues to back up into the intersection? *(comment below if "yes")* | ☐ yes | ■ no |
| 6. | Would the installation of a roundabout create impacts to historical, 4(f), or environmentally sensitive sites? Would the relocation of residences or businesses be required? *(comment below if "yes")* | ☐ yes | ■ no |

*Step 2 evaluation is required if no is checked for all criteria. Level 2 is optional if yes is checked for one or more of the criteria.*

Advance Roundabout Alternative to step 2 Roundabout b/c Evaluation ☐ yes ■ no

Approved by: ☐ DDE or ■ DTOE

Signature: _____ Date: 12-17-18

# FLORIDA DEPARTMENT OF TRANSPORTATION
# DISTRICT THREE TRAFFIC OPERATIONS

**DISTRICTWIDE TRAFFIC OPERATIONS STUDIES**
**TASK WORK ORDER NO. 6**

**CONTRACT NO: C-9L03**
**FDOT FINANCIAL ID NO: 22089823202**
**STUDY TYPE 1 – UNSIGNALIZED INTERSECTION**

# STATE ROAD 10A (US 90 / MOBILE HIGHWAY)
# AT
# KLONDIKE ROAD

**COUNTY: ESCAMBIA**
**SECTION: 48020**
**MILEPOST: 5.559**

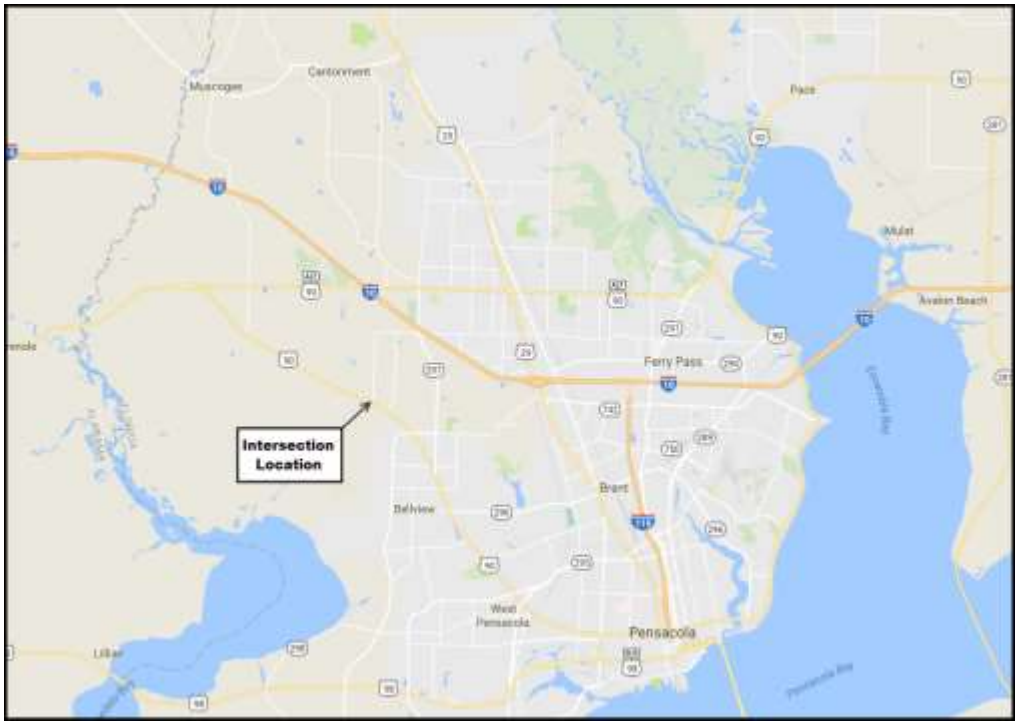
**PREPARED BY:**

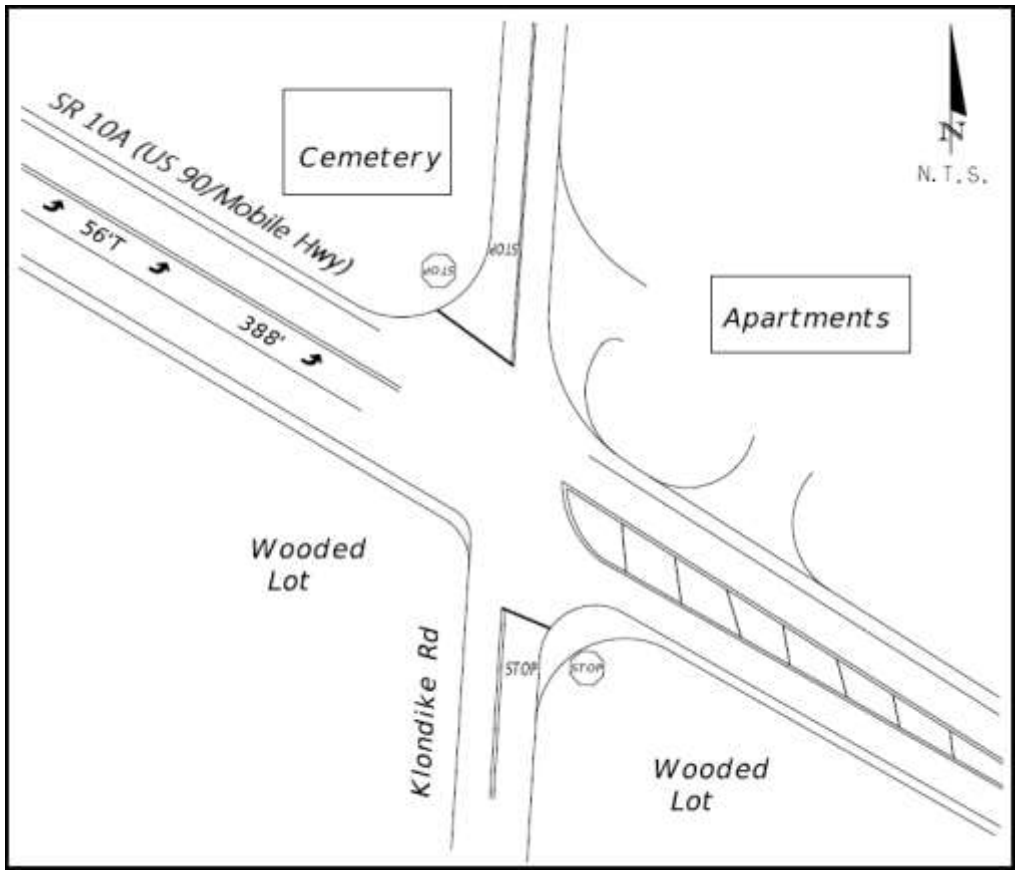
**FLORIDA TRANSPORTATION ENGINEERING, INC. (FTE)**
**1369 S. RAILROAD AVENUE, SUITE C**
**CHIPLEY, FLORIDA 32428**

**PHILLIP KURTH, PE PTOE**
**SENIOR TRAFFIC ENGINEER**
**FL PE NO. 72434**
**7/27/2017**

7/27/17

# Location Map and Topography



## Executive Summary

The following is a synopsis of the conclusions and recommendations of the Traffic Operational Study performed for **State Road 10A (US 90 / Mobile Highway) at Klondike Road** located in Escambia County.

### Conclusions:

- There were thirty-three (33) documented crashes reported by the CARS System as well as Signal Four Analytics within the last five (5) years.
- Fourteen (14) of the reported collisions (42%) resulted in injury where one or more people required transportation to a medical facility.
- There were twenty-five (25) reported collisions (76%) of the type susceptible to correction by a traffic signal.
- There were eleven (11) injury crashes of the type susceptible to correction by a traffic signal.
- In the last five (5) years, the number of reported crashes at State Road 10A (US 90 / Mobile Highway) and Klondike Road was greater than the statistical average of similar roadway facilities in District 3.
- Results from the delay analysis indicate that, while the overall delay falls within acceptable levels of service, the southbound approach of Klondike Road experiences some excessive delay (LOS E) in the PM peak period.
- According to the Generalized Tables, this segment of State Road 10A is operating at a LOS C in both the AM and PM peak periods.
- MUTCD Warrant 2 – Four Hour Vehicular Volume and MUTCD Warrant 7 – Crash Experience were satisfied for the subject intersection with 100% right turns added due to excessive conflict and vehicular delay entering the intersection as well as intersection geometry.
- According to the NCHRP Report 457 guidelines, no additional side street lanes on either approach of Klondike Road are justified given the current traffic volumes.
- According to the NCHRP Report 457 guidelines, a dedicated westbound left-turn lane is not warranted at this location *under the existing two-way stop control*.
- According to the NCHRP Report 457 guidelines**,** a full length right-turn lane is warranted for the westbound approach of State Road 10A (US 90 / Mobile Highway) at Klondike Road given the current traffic volumes.
- According to the SimTraffic models, no improvement for the existing eastbound left-turn lane on State Road 10A is justified at this time.
- The sight distance along State Road 10A was adequate from the driver's perspective on the side street approaches.
- A site visit conducted on 7/10/2017 did not reveal any apparent operational deficiencies in the roadway network that would justify the spike in angle crashes at this location. Westbound left-turning vehicles were observed using the gored median to exit the westbound lane and not obstruct thru traffic. Off-tracking from right-turning vehicles was observed along the northbound and southbound approaches of Klondike Road.
- Under signalized conditions, a Supplemental Analysis determined:
  - The storage capacity of the existing and proposed turn lanes at the intersection of State Road 10A (US 90 / Mobile Highway) and Klondike Road would exceed the current vehicular demand. The total deceleration length required at this location is 185 feet, per FDOT Design Standards Index 301. Based on the low traffic volume of westbound left-turn movements, a minimal amount of westbound left-turn queue storage is recommended as to not interfere with the operations of the adjacent un-signalized intersection at Yoshida Street.
  - Permissive phasing is recommended for the side street approaches of Klondike Road.
  - Protected/Permissive Left-Turn Phasing is recommended for the existing eastbound left-turn lane as well as the proposed westbound left-turn lane.
- There are currently no projects programmed into the Department's Five Year Work Program which would include the subject intersection.
- Step 1 of the Roundabout Screening Process was not satisfied for this location.

**Recommendations:**

- It is recommended that the Department should construct a 185-foot westbound right-turn lane on State Road 10A (US 90 / Mobile Highway) at Klondike Road per FDOT Standard Index 301.
- It is recommended that the Department should consider signalizing the intersection of State Road 10A (US 90 / Mobile Highway) at Klondike Road. Protected/Permissive Left-Turn Phasing is recommended for the mainline left-turn movement(s) and Permissive Phasing is recommended for the Klondike Road approaches.
- If signalization is the preferred option, then it is recommended that the Department should construct a 185-foot westbound left-turn lane on State Road 10A (US 90 / Mobile Highway) at Klondike Road per FDOT Standard Index 301. It is also recommended that a minimal amount of westbound left-turn storage be provided as to not interfere with the operations of the adjacent un-signalized intersection at Yoshida Street.

## Introduction

This traffic engineering study was conducted to analyze the operation of the intersection of State Road 10A (US 90 / Mobile Highway) and Klondike Road, located in Escambia County, and to determine if any operational improvements are needed at this location. The traffic data collected for the analysis consisted of ten (10) hour turning movement counts, fifteen minute delay samples, vehicular speed characteristics and the latest five (5) years of crash reports. The ten (10) hour turning movements were taken from 6:00 AM to 10:00 AM, from 11:00 AM to 1:00 PM, and from 2:00 PM to 6:00 PM. Of these ten (10) hours, **6:45 – 7:45 AM was determined to be the morning peak hour; and 4:30 – 5:30 PM was determined to be the evening peak hour**.

Various traffic engineering tools were used to evaluate this intersection. The data contained herein was evaluated using the following analytical tools and traffic engineering resources:

- Manual on Uniform Traffic Control Devices (MUTCD) Handbook, 2009 Edition with Revisions May 2012
- 2010 Highway Capacity Manual
- FDOT Quality / Level of Service Handbook
- Un-Signalized Intersection Delay Study
- NCHRP Report 457
- SYNCHRO / SimTraffic

## Site Characteristics

State Road 10A (US 90 / Mobile Highway) at Klondike Road is an un-signalized intersection consisting of unrestricted movements east and west on this segment of State Road 10A. At this location, State Road 10A is a two-lane undivided urban minor arterial with a posted speed limit of 45 mph. There is a dedicated eastbound left-turn lane on State Road 10A at Klondike Road. State Road 10A is an Access Class 4 Roadway with minimum signal spacing of 2,640 feet (0.50 mile). There is a traffic signal approximately 1.13 miles east of this intersection at State Road 173 (Blue Angel Parkway). There are no existing traffic signals to the west of this location that are within two (2) miles of the subject intersection.

The northbound and southbound approaches of Klondike Road are both regulated by a STOP sign and a STOP bar as well as STOP pavement markings on the northbound approach. Klondike Road is an undivided local roadway with a posted speed limit of 35 mph. There are no dedicated turn lanes on either the northbound or southbound approach. At the time of this study, the sight distance along State Road 10A was adequate from the driver's perspective on both of the side street approaches.

## Site Analysis

A spot speed study along State Road 10A (US 90 / Mobile Highway) was conducted at this location. Many speed characteristics were collected, measured, and computed for this study such as the posted speed limit, eighty-fifth percentile speed, average speed, percent exceeding, and the highest speed obtained during the study. This data is presented in Table 1 on the following page:

| TABLE 1<br>SPEED DATA | | | | |
|---|---|---|---|---|
| Speed | | Eastbound | Westbound | Posted Speed Limit – 45 MPH |
| 85 PERCENTILE | (MPH) | 56 | 56.2 | Speed Study was conducted on SR 10A (US 90) at Klondike Road |
| AVERAGE | (MPH) | 51.2 | 51.3 | |
| HIGH | (MPH) | 65 | 62 | |
| PERCENT EXCEEDING | (%) | 89.11 | 86.54 | |

Historical crash information for the years 2012 through December 31, 2016 was obtained from the FDOT Safety Office through the CARS System as well as Signal Four Analytics for the un-signalized intersection of State Road 10A (US 90 / Mobile Highway) and Klondike Road. Table 2 is a summary of the documented crash data:

| TABLE 2<br>COLLISION TYPE | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | Left Turn | | Rear End | | Right Angle | | Side Swipe | | Loss of Control | | Head-On | | Pedestrian Bike | | Other | |
| 2012 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2013 | 0 | 0 | 1 | 0 | 7 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2014 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2015 | 0 | 1 | 0 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2016 | 0 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | | 3 | | 23 | | 3 | | 2 | | 0 | | 0 | | 0 | |
| TOTAL COLLISIONS | | 33 | | | Property Damage Only | | | 19 | | | Injury | | | | | 14 |

**Fourteen (14) of the thirty-three (33) reported collisions (42%) resulted in injury where one or more people required transportation to a medical facility. In the last five (5) years, there were twenty-five (25) reported collisions of the type susceptible to correction by a traffic signal (76%).** Eleven (11) of the injury crashes were of the type susceptible to correction by a traffic signal. Detailed crash diagrams may be found in the study appendix.

Table 3 depicts the results of a statistical analysis of crash rates at similar roadway facilities in District 3 over the last five (5) years. The subject crash rates are based on estimated crashes per million vehicles entering the State System by intersection type. **In the last five (5) years, the number of reported crashes at State Road 10A (US 90 / Mobile Highway) and Klondike Road was greater than the statistical average of similar roadway facilities in District 3.**

| TABLE 3<br>FDOT District 3 Crash Statistics Analysis | |
|---|---|
| Vehicles per Day Entering Intersection = | 12,496 |
| Million Vehicles per Year Entering Intersection = | 4.561 |
| Statistical Crash Rate per Million Vehicles = | 0.174 |
| Reported Crashes in Last Five (5) Years = | 33 |
| Anticipated Number of Crashes per Year = | 0.79 |
| Actual Number of Reported Crashes per Year = | 6.60 |

Four 15-minute delay samples were collected for all movements with the exception of eastbound and westbound free right-turn and thru movements. Two of the four 15-minute delay samples were taken during the peak hours. These delays and computed average delays are shown in Table 4. **Results from the delay analysis indicate that, while the overall delay falls within acceptable levels of service, the southbound approach of Klondike Road experiences some excessive delay (LOS E) in the PM peak period.**

## TABLE 4
## UNSIGNALIZED INTERSECTION DELAY STUDY

**EASTBOUND MOVEMENTS (LEFTS)**

| TIME | | AVERAGE VEHICULAR DELAY | | LEVEL OF SERVICE * |
|---|---|---|---|---|
| BEGIN | END | STOPPED (SECS/VEH) | APPROACH (SECS/VEH) | |
| 6:45 am | 7:00 am | 9.81 | 9.81 | A |
| 8:15 am | 8:30 am | 10.71 | 10.71 | B |
| 2:45 pm | 3:00 pm | 9.81 | 9.81 | A |
| 4:30 pm | 4:45 pm | 10.19 | 10.19 | B |
| TOTAL | | 40.52 | 40.52 | |
| AVERAGE | | 10.13 | 10.13 | B |
| APPROACH VOLUME (VEH in 10 hrs) | | 615 | | |
| VEHICULAR DELAY (VEH-HRS) | | 1.73 | 1.73 | |

**WESTBOUND MOVEMENTS (LEFTS)**

| TIME | | AVERAGE VEHICULAR DELAY | | LEVEL OF SERVICE * |
|---|---|---|---|---|
| BEGIN | END | STOPPED (SECS/VEH) | APPROACH (SECS/VEH) | |
| 7:15 am | 7:30 am | 22.00 | 22.00 | C |
| 8:45 am | 9:00 am | 5.50 | 5.50 | A |
| 3:15 pm | 3:30 pm | 4.50 | 4.50 | A |
| 5:00 pm | 5:15 pm | 24.50 | 24.50 | C |
| TOTAL | | 56.50 | 56.50 | |
| AVERAGE | | 14.13 | 14.13 | B |
| APPROACH VOLUME (VEH in 10 hrs) | | 62 | | |
| VEHICULAR DELAY (VEH-HRS) | | 0.24 | 0.24 | |

**SOUTHBOUND MOVEMENTS (ALL)**

| TIME | | AVERAGE VEHICULAR DELAY | | LEVEL OF SERVICE * |
|---|---|---|---|---|
| BEGIN | END | STOPPED (SECS/VEH) | APPROACH (SECS/VEH) | |
| 7:00 am | 7:15 am | 20.27 | 20.27 | C |
| 8:30 am | 8:45 am | 11.53 | 11.53 | B |
| 3:00 pm | 3:15 pm | 20.94 | 20.94 | C |
| 4:45 pm | 5:00 pm | 42.88 | 42.88 | E |
| TOTAL | | 95.62 | 95.62 | |
| AVERAGE | | 23.91 | 23.91 | C |
| APPROACH VOLUME (VEH in 10 hrs) | | 200 | | |
| VEHICULAR DELAY (VEH-HRS) | | 1.33 | 1.33 | |

**NORTHBOUND MOVEMENTS (ALL)**

| TIME | | AVERAGE VEHICULAR DELAY | | LEVEL OF SERVICE * |
|---|---|---|---|---|
| BEGIN | END | STOPPED (SECS/VEH) | APPROACH (SECS/VEH) | |
| 7:30 am | 7:45 am | 26.89 | 26.89 | D |
| 9:00 am | 9:15 am | 14.43 | 14.43 | B |
| 3:30 pm | 3:45 pm | 15.25 | 15.25 | C |
| 5:15 pm | 5:30 pm | 19.25 | 19.25 | C |
| TOTAL | | 75.82 | 75.82 | |
| AVERAGE | | 18.96 | 18.96 | C |
| APPROACH VOLUME (VEH in 10 hrs) | | 896 | | |
| VEHICULAR DELAY (VEH-HRS) | | 4.72 | 4.72 | |

**TOTAL INTERSECTION DELAY**

| VEHICULAR DELAY | EASTBOUND | WESTBOUND | SOUTHBOUND | NORTHBOUND | TOTAL |
|---|---|---|---|---|---|
| STOPPED (VEH-HRS) | 1.73 | 0.24 | 1.33 | 4.72 | 8.02 |
| APPROACH (VEH-HRS) | 1.73 | 0.24 | 1.33 | 4.72 | 8.02 |

*** Level of Service (LOS) is stated in terms of the average approach delay per vehicle. Exhibit 19-1 in the *2010 Highway Capacity Manual* is used to compute the LOS.**

Ten (10) hour turning movements were taken on 7/11/2017 using Miovision video data collection units. The vehicular turning movements were collected from 6:00 AM to 10:00 AM, from 11:00 AM to 1:00 PM, and from 2:00 PM to 6:00 PM. Of these ten (10) hours, 6:45 – 7:45 AM was determined to be the morning peak hour; and 4:30 – 5:30 PM was determined to be the evening peak hour. Table 5 denotes the hourly breakdown of traffic volumes of the subject intersection.

**TABLE 5**
**10-HOUR TURNING MOVEMENTS**

| TIME | SOUTHBOUND Klondike Road | | | WESTBOUND SR 10A (US 90) | | | NORTHBOUND Klondike Road | | | EASTBOUND SR 10A (US 90) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LEFT | THRU | RIGHT | LEFT | THRU | RIGHT | LEFT | THRU | RIGHT | LEFT | THRU | RIGHT |
| 6:00 AM – 7:00 AM | 13 | 1 | 20 | 4 | 233 | 14 | 5 | 9 | 9 | 64 | 316 | 0 |
| 7:00 AM – 8:00 AM | 20 | 3 | 30 | 2 | 288 | 12 | 7 | 15 | 9 | 102 | 378 | 5 |
| 8:00 AM – 9:00 AM | 28 | 6 | 44 | 4 | 241 | 16 | 2 | 6 | 9 | 70 | 265 | 0 |
| 9:00 AM – 10:00 AM | 23 | 6 | 41 | 3 | 180 | 16 | 3 | 7 | 13 | 61 | 216 | 3 |
| 11:00 AM – 12:00noon | 20 | 4 | 47 | 6 | 197 | 18 | 1 | 2 | 5 | 46 | 204 | 2 |
| 12:00noon – 1:00 PM | 19 | 3 | 47 | 4 | 262 | 21 | 2 | 6 | 9 | 33 | 201 | 5 |
| 2:00 PM – 3:00 PM | 23 | 6 | 70 | 11 | 264 | 25 | 5 | 9 | 5 | 52 | 235 | 3 |
| 3:00 PM – 4:00 PM | 24 | 12 | 72 | 10 | 351 | 38 | 2 | 3 | 8 | 50 | 278 | 5 |
| 4:00 PM – 5:00 PM | 29 | 15 | 101 | 8 | 453 | 43 | 6 | 7 | 11 | 75 | 403 | 6 |
| 5:00 PM – 6:00 PM | 24 | 13 | 132 | 10 | 471 | 55 | 5 | 11 | 9 | 62 | 377 | 8 |
| TOTAL | 223 | 69 | 604 | 62 | 2940 | 258 | 38 | 75 | 87 | 615 | 2873 | 37 |

The Peak Hour Two-Way Volumes on State Road 10A (US 90 / Mobile Highway) were analyzed using the Generalized Tables published in the *FDOT Quality / Level of Service Handbook* for Class I Signalized Arterials. Table 6 denotes the results of the LOS Analysis.

**TABLE 6**
**QUALITY / LEVEL OF SERVICE**

| Analysis Period | Two-Way Volume | LOS |
|---|---|---|
| AM Peak | 794 | C |
| PM Peak | 1061 | C |

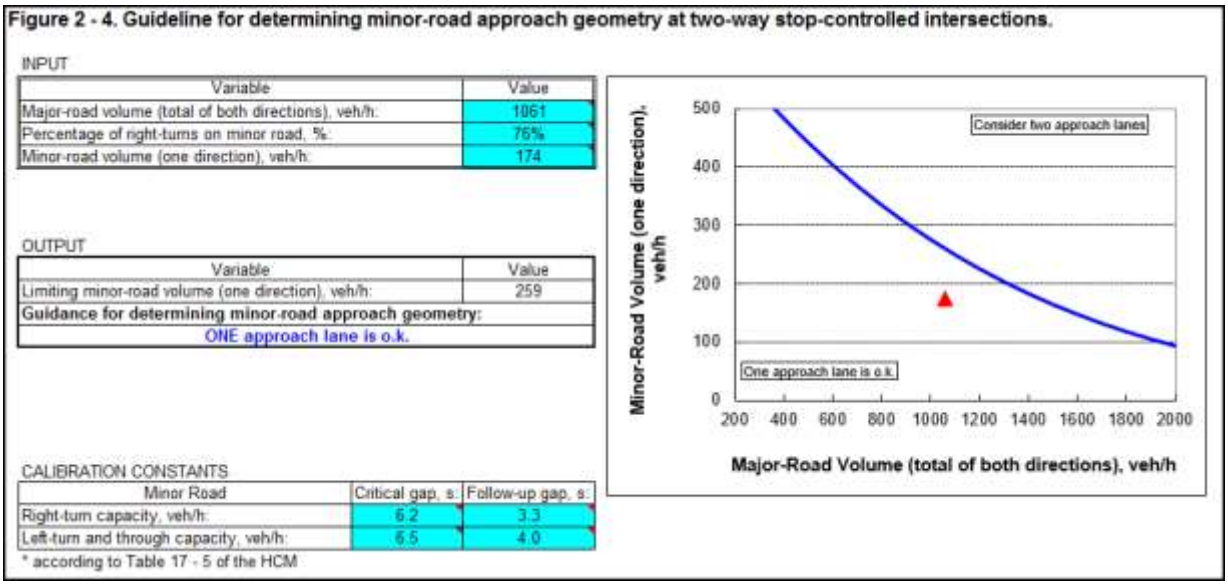
The ten (10) hour turning movement volumes were also analyzed using the nine MUTCD Warrants for traffic signal installation published in Section 4C.01 of the *2009 Manual of Uniform Traffic Control Devices*. **MUTCD Warrant 2 – Four Hour Vehicular Volume and MUTCD Warrant 7 – Crash Experience were satisfied** for the subject intersection with 100% right turns added due to excessive conflict and vehicular delay entering the intersection as well as intersection geometry. Individual Warrants that were performed for this location may be found in the study appendix.

**TABLE 7**
**TRAFFIC SIGNAL WARRANT SUMMARY EVALUATION**

| | | WARRANT SATISFIED | | |
|---|---|---|---|---|
| **WARRANT NUMBER** | **DESCRIPTON** | **YES** | **NO** | **NOT APPLICABLE** |
| **1A** | **EIGHT HOUR VEHICULAR VOLUME** | | **X** | |
| **1B** | **EIGHT HOUR VEHICULAR VOLUME (80% Volumes Met)** | | **X** | |
| **2** | **FOUR HOUR VEHICULAR VOLUME** | **X** | | |
| **3** | **PEAK HOUR** | | | **X** |
| **4** | **PEDESTRIAN VOLUME** | | | **X** |
| **5** | **SCHOOL CROSSING** | | | **X** |
| **6** | **COORDINATED SYSTEMS WARRANT** | | | **X** |
| **7** | **CRASH EXPERIENCE** | **X** | | |
| **8** | **ROADWAY NETWORK** | | | **X** |
| **9** | **INTERSECTION NEAR A GRADE CROSSING** | | | **X** |

Figure 2-4 of NCHRP Report 457 was used to determine the appropriateness of additional turn lanes on the minor side street approaches of Klondike Road. Both the AM and PM peak volumes were analyzed. As depicted in Table 8, **no additional side street lanes are justified at this time.**

**TABLE 8**
**ADDITIONAL SIDE STREET EVALUATION**



A left-turn lane analysis was conducted utilizing Figure 2-5 NCHRP Report 457 to determine the need and appropriateness of a left-turn bay for the westbound approach of State Road 10A (US 90 / Mobile Highway) at Klondike Road. This analysis was performed during the critical hour of potential vehicular conflicts at this location. According to the NCHRP Report 457 guidelines, **a dedicated westbound left-turn lane is not warranted at this location under the existing two-way stop control**. The results of the analysis are depicted in Table 9:

**TABLE 9**
**WESTBOUND LEFT-TURN EVALUATION**

**Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.**

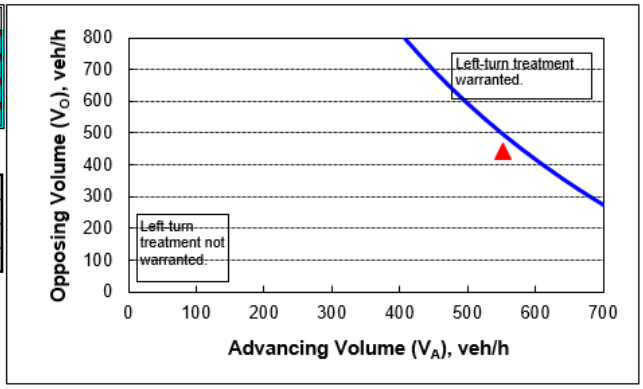
**2-lane roadway (English)**

INPUT

| Variable | Value |
|---|---|
| 85th percentile speed, mph: | 56 |
| Percent of left-turns in advancing volume ($V_A$), %: | 2% |
| Advancing volume ($V_A$), veh/h: | 552 |
| Opposing volume ($V_O$), veh/h: | 442 |

OUTPUT

| Variable | Value |
|---|---|
| Limiting advancing volume ($V_A$), veh/h: | 584 |
| **Guidance for determining the need for a major-road left-turn bay:** | |
| **Left-turn treatment NOT warranted.** | |




CALIBRATION CONSTANTS

| Variable | Value |
|---|---|
| Average time for making left-turn, s: | 3.0 |
| Critical headway, s: | 5.0 |
| Average time for left-turn vehicle to clear the advancing lane, s: | 1.9 |

A right-turn lane analysis was conducted utilizing Figure 2-6 NCHRP Report 457 to determine the need and appropriateness of a full length right-turn bay for the eastbound and westbound approaches of State Road 10A (US 90 / Mobile Highway) at Klondike Road. This analysis was performed during the critical volume hours at this location. According to Report 457, **a full length right-turn lane is warranted for the westbound approach of State Road 10A (US 90 / Mobile Highway) at Klondike Road given the current traffic volumes**. The results of the analysis are depicted in Tables 10 and 11:

**TABLE 10**
**WESTBOUND RIGHT-TURN LANE EVALUATION**

**Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.**

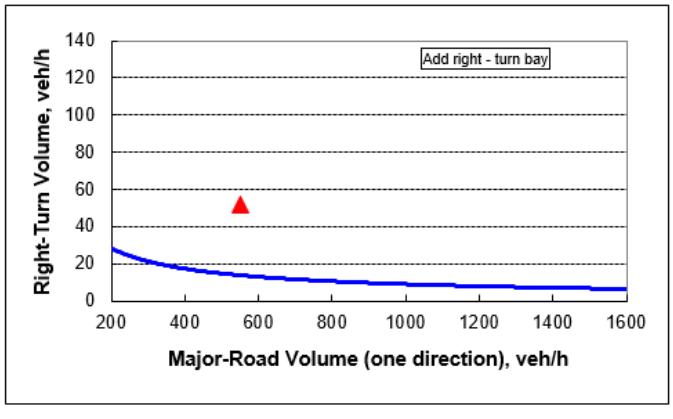
INPUT

| Roadway geometry: | 2-lane roadway |
|---|---|

| Variable | Value |
|---|---|
| Major-road speed, mph: | 56 |
| Major-road volume (one direction), veh/h: | 552 |
| Right-turn volume, veh/h: | 52 |

OUTPUT

| Variable | Value |
|---|---|
| Limiting right-turn volume, veh/h: | 14 |
| **Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:** | |
| **Add right-turn bay.** | |



## TABLE 11
## EASTBOUND RIGHT-TURN LANE EVALUATION

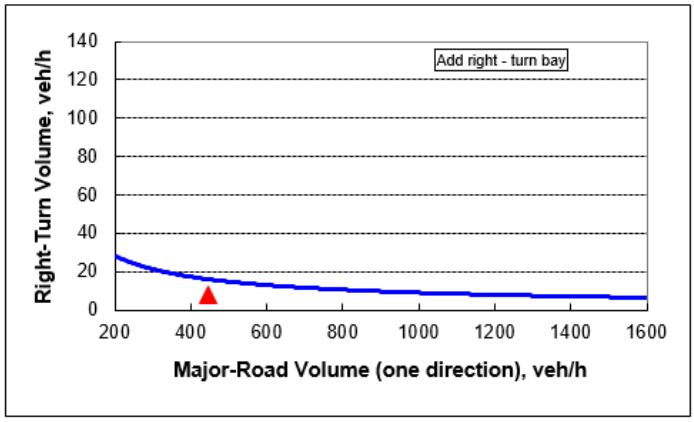
**Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.**

INPUT

| Roadway geometry: | 2-lane roadway |
|---|---|
| Variable | Value |
| Major-road speed, mph: | 56 |
| Major-road volume (one direction), veh/h: | 447 |
| Right-turn volume, veh/h: | 8 |

OUTPUT

| Variable | Value |
|---|---|
| Limiting right-turn volume, veh/h: | 16 |
| **Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:** | |
| Do NOT add right-turn bay. | |




As stated in the *Site Characteristics* section, there is a dedicated left-turn lane on the eastbound approach of State Road 10A (US 90 / Mobile Highway) at Klondike Road. The SimTraffic application of the Synchro software package was used to determine the adequacy of the existing turn lane in both the AM and PM peak periods. Five traffic simulations were conducted and averaged for the displayed results. Each simulation was one hour in duration with three minute model seedings. The dimensions of the subject turn lane are as follows:

- 388-Foot Eastbound Left-Turn Lane with 56-Foot Taper

As depicted in Tables 12 and 13, the storage capacity of the existing eastbound left-turn lane at the intersection of State Road 10A (US 90 / Mobile Highway) and Klondike Road exceeds the current vehicular demand. **No improvement for the existing turn lane at this location is justified under the existing two-way stop control.**

## TABLE 12
## QUEUING ANALYSIS OF EXISTING TURN LANES
## AM PEAK

Queuing and Blocking Report
State Road 10A (US 90 / Mobile Highway) and Klondike Road 07/21/2017

Intersection: 3:

| Movement | EB | EB | WB | NB | SB |
|---|---|---|---|---|---|
| Directions Served | L | TR | LTR | LTR | LTR |
| Maximum Queue (ft) | 75 | 13 | 62 | 80 | 72 |
| Average Queue (ft) | 31 | 1 | 8 | 28 | 29 |
| 95th Queue (ft) | 59 | 6 | 37 | 60 | 56 |
| Link Distance (ft) | | 930 | 906 | 592 | 575 |
| Upstream Blk Time (%) | | | | | |
| Queuing Penalty (veh) | | | | | |
| Storage Bay Dist (ft) | 388 | | | | |
| Storage Blk Time (%) | | | | | |
| Queuing Penalty (veh) | | | | | |

**TABLE 13**
**QUEUING ANALYSIS OF EXISTING TURN LANES**
**PM PEAK**

Queuing and Blocking Report
State Road 10A (US 90 / Mobile Highway) and Klondike Road 07/21/2017

Intersection: 3:

| Movement | EB | WB | NB | SB |
|---|---|---|---|---|
| Directions Served | L | LTR | LTR | LTR |
| Maximum Queue (ft) | 57 | 95 | 69 | 234 |
| Average Queue (ft) | 32 | 10 | 29 | 98 |
| 95th Queue (ft) | 58 | 48 | 59 | 192 |
| Link Distance (ft) | | 906 | 592 | 575 |
| Upstream Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |
| Storage Bay Dist (ft) | 388 | | | |
| Storage Blk Time (%) | | | | |
| Queuing Penalty (veh) | | | | |

## Field Observations

A site visit conducted on 7/10/2017 did not reveal any apparent operational deficiencies in the roadway network that would justify the spike in angle crashes at this location. Westbound left-turning vehicles were observed using the gored median to exit the westbound lane and not obstruct thru traffic. Off-tracking from right-turning vehicles was observed along the northbound and southbound approaches of Klondike Road. The following exhibits illustrate the sight distance along State Road 10A (US 90 / Mobile Highway) at Klondike Road.

**EXHIBIT 1**
**NORTHBOUND KLONDIKE ROAD LOOKING EAST**

**EXHIBIT 2**
**NORTHBOUND KLONDIKE ROAD LOOKING WEST**

**EXHIBIT 3**
**SOUTHBOUND KLONDIKE ROAD LOOKING EAST**

**EXHIBIT 4**
**SOUTHBOUND KLONDIKE ROAD LOOKING WEST**

## Supplemental Queueing Analysis

Additional queuing analysis was performed at the intersection of State Road 10A (US 90 / Mobile Highway) and Klondike Road to determine the adequacy of *both existing and proposed turn lanes* under signalized conditions. The subject location was modeled as an isolated intersection with a 100 second cycle length. The SimTraffic application of the Synchro software package was used to determine the required storage capacity of the potential westbound right-turn lane. Five traffic simulations were conducted and averaged for the displayed results. Each simulation was one hour in duration with three minute model seedings. The dimensions of the subject turn lanes are as follows:

- Existing 388-Foot Eastbound Left-Turn Lane with 56-Foot Taper
- Proposed 185-Foot Westbound Left-Turn Lane with 50-Foot Taper
- Proposed 185-Foot Westbound Left-Turn Lane with 50-Foot Taper

As depicted in Tables 14 & 15 on the following page, the storage capacity of the existing and proposed turn lanes at the intersection of State Road 10A (US 90 / Mobile Highway) and Klondike Road would exceed the current vehicular demand. The total deceleration length required at this location is 185 feet, per FDOT Design Standards Index 301. Based on the low traffic volume of westbound left-turn movements, a minimal amount of westbound left-turn queue storage is recommended as to not interfere with the operations of the adjacent un-signalized intersection at Yoshida Street.

**TABLE 14**
**QUEUING ANALYSIS OF POTENTIAL WESTBOUND LEFT-TURN LANE**
**AM PEAK**

Queuing and Blocking Report
State Road 10A (US 90 / Mobile Highway) and Klondike Road 07/27/2017

Intersection: 3:

| Movement | EB | EB | WB | WB | WB | NB | SB |
|---|---|---|---|---|---|---|---|
| Directions Served | L | TR | L | T | R | LTR | LTR |
| Maximum Queue (ft) | 54 | 119 | 31 | 116 | 31 | 56 | 114 |
| Average Queue (ft) | 29 | 53 | 5 | 66 | 6 | 26 | 24 |
| 95th Queue (ft) | 58 | 108 | 22 | 113 | 24 | 54 | 63 |
| Link Distance (ft) | | 930 | | 906 | | 592 | 561 |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | 388 | | 185 | | 185 | | |
| Storage Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |

**TABLE 15**
**QUEUING ANALYSIS OF POTENTIAL WESTBOUND LEFT-TURN LANE**
**PM PEAK**

Queuing and Blocking Report
State Road 10A (US 90 / Mobile Highway) and Klondike Road 07/27/2017

Intersection: 3:

| Movement | EB | EB | WB | WB | WB | NB | SB |
|---|---|---|---|---|---|---|---|
| Directions Served | L | TR | L | T | R | LTR | LTR |
| Maximum Queue (ft) | 72 | 202 | 67 | 237 | 44 | 66 | 121 |
| Average Queue (ft) | 32 | 82 | 8 | 104 | 15 | 20 | 52 |
| 95th Queue (ft) | 61 | 158 | 42 | 182 | 40 | 52 | 97 |
| Link Distance (ft) | | 930 | | 906 | | 592 | 561 |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | 388 | | 185 | | 185 | | |
| Storage Blk Time (%) | | | | 1 | | | |
| Queuing Penalty (veh) | | | | 0 | | | |

The side street left-turn phasing for Klondike Road was analyzed to determine if appropriate based on Figure 4-11 of the FHWA Traffic Signal Timing Manual. Traffic volumes do not warrant protected phasing for any approach. However, with the presence of an existing eastbound left-turn lane as well as the proposed westbound left-turn lane, Protected/Permissive Left-Turn Phasing is recommended for the subject movements. Figure 4-11 for the left-turn movements can be found in the Appendix.

## Work Program

A Financial Project Search was conducted for this segment of State Road 10A (US 90 / Mobile Highway). There are currently no projects programmed into the Department's Five Year Work Program which would include the subject intersection.

## Roundabout Screening

A Step 1 – Roundabout Screening was performed for the intersection of State Road 10A (US 90 / Mobile Highway) and Klondike Road.

1. Does the intersection have physical or geometric constraints that would limit visibility or complicate construction?
    a. Yes. There is a cemetery in the northwest quadrant of the intersection.
2. Does the major roadway AADT exceed 90% of the total intersection AADT?
    a. No.
3. Does the intersection have pedestrians with special needs that would have difficulty crossing the road?
    a. No.
4. Is the intersection located within a coordinated signal network?
    a. No.
5. Is there downstream traffic control or conditions that could cause queues to back up into the intersection?
    a. No.
6. Would the installation create impacts to historical, 4(f), or environmentally sensitive sites? Would the relocation of residences or businesses be required?
    a. Yes. There is a cemetery in the northwest quadrant of the intersection and a multi-family residence is located in the northeast quadrant of the intersection.

The Step 1 – Roundabout Screening form may be found in the study appendix.

## Recommendations

It is recommended that the Department should construct a 185-foot westbound right-turn lane on State Road 10A (US 90 / Mobile Highway) at Klondike Road per FDOT Standard Index 301.

It is recommended that the Department should consider signalizing the intersection of State Road 10A (US 90 / Mobile Highway) at Klondike Road. Protected/Permissive Left-Turn Phasing is recommended for the mainline left-turn movement(s).

If signalization is the preferred option, then it is recommended that the Department should construct a 185-foot westbound left-turn lane on State Road 10A (US 90 / Mobile Highway) at Klondike Road per FDOT Standard Index 301. It is also recommended that a minimal amount of westbound left-turn storage be provided as to not interfere with the operations of the adjacent un-signalized intersection at Yoshida Street.

Phillip Kurth, PE PTOE
7/27/2017

# APPENDIX

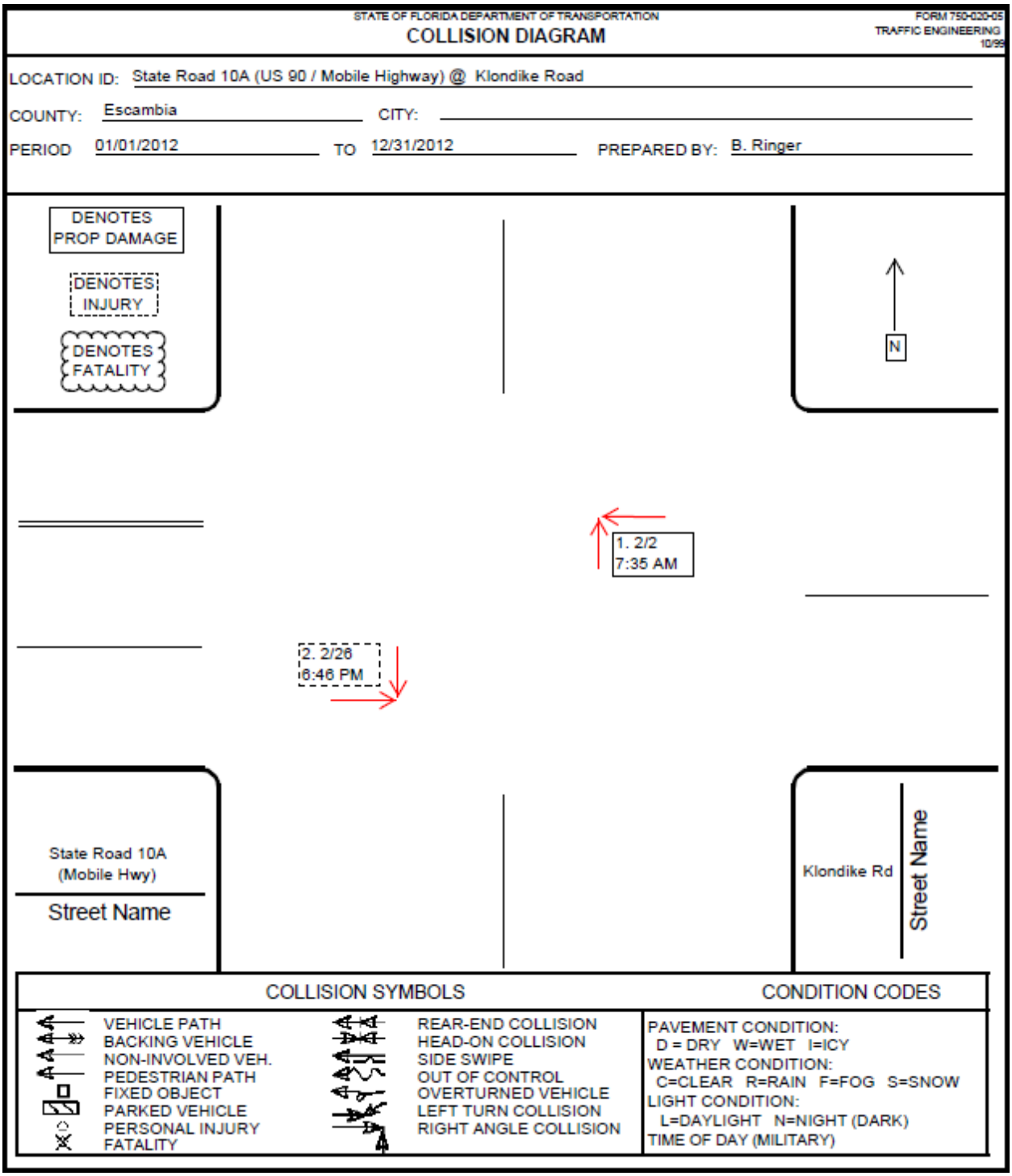
LOOKING EAST

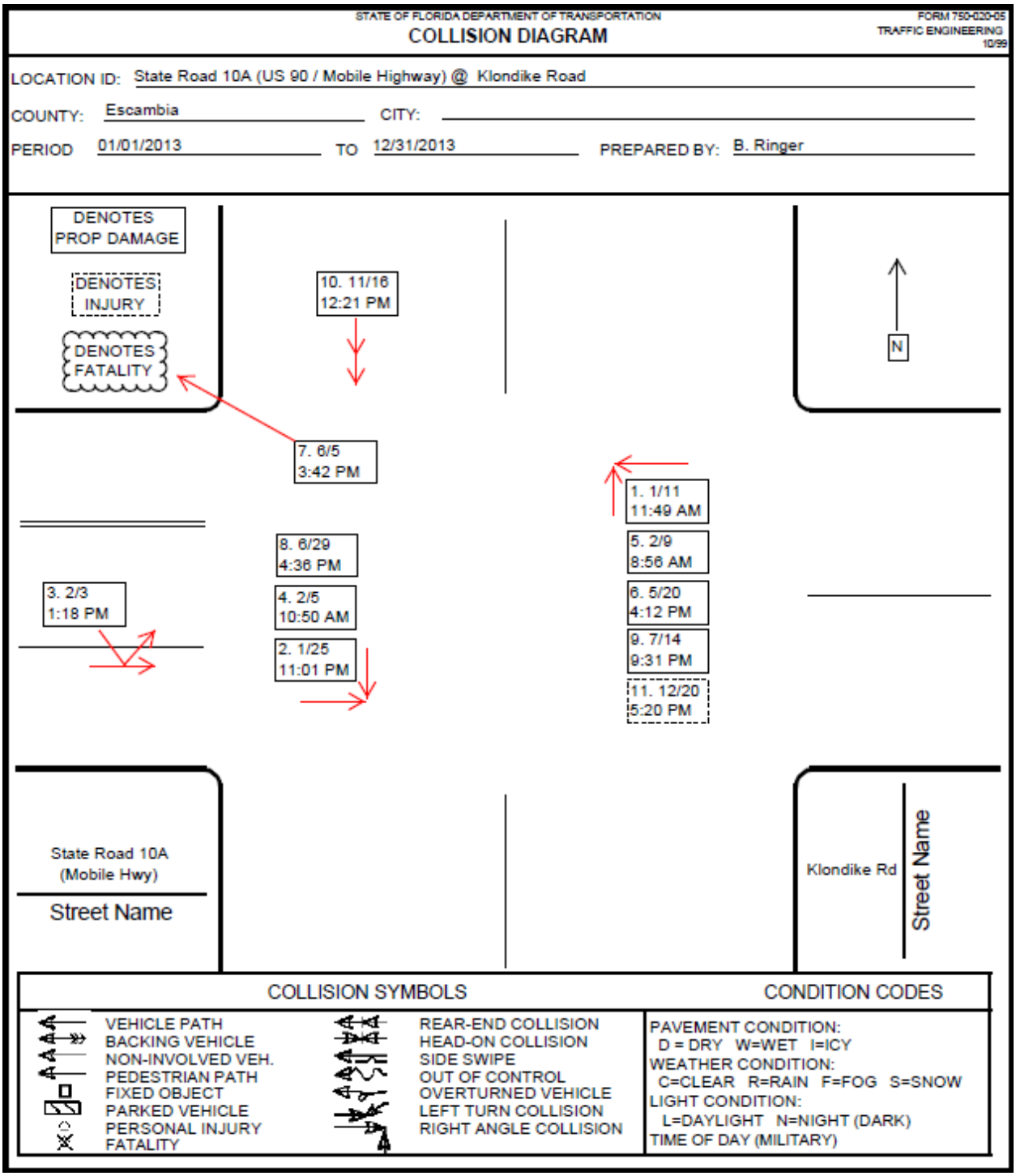
LOOKING WEST

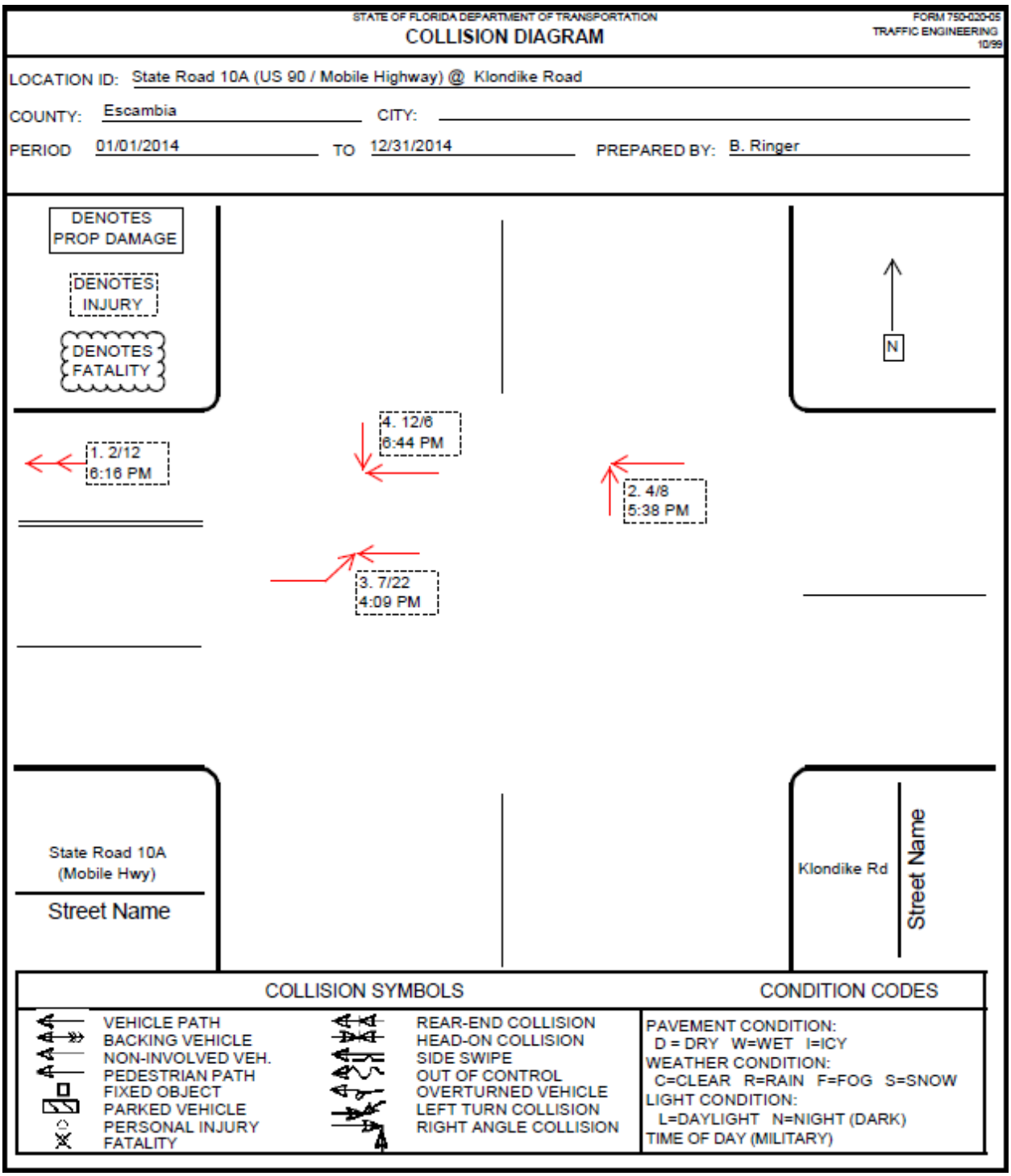
## LOOKING NORTH

## LOOKING SOUTH

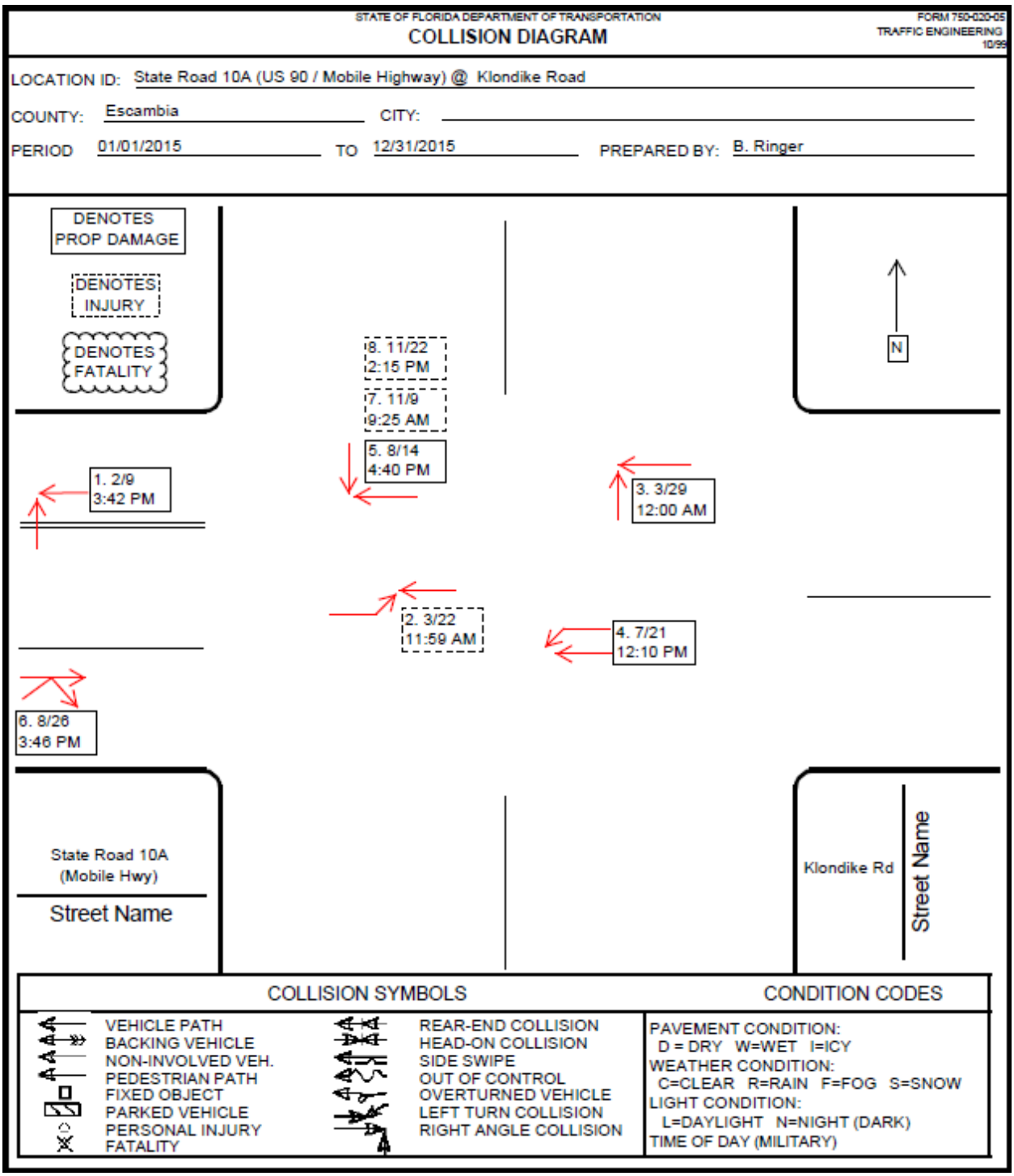
**S.R. 10A (US 90 / Mobile Highway) at Klondike Road**
**Section No. 48020, Escambia County**
**July 27, 2017**

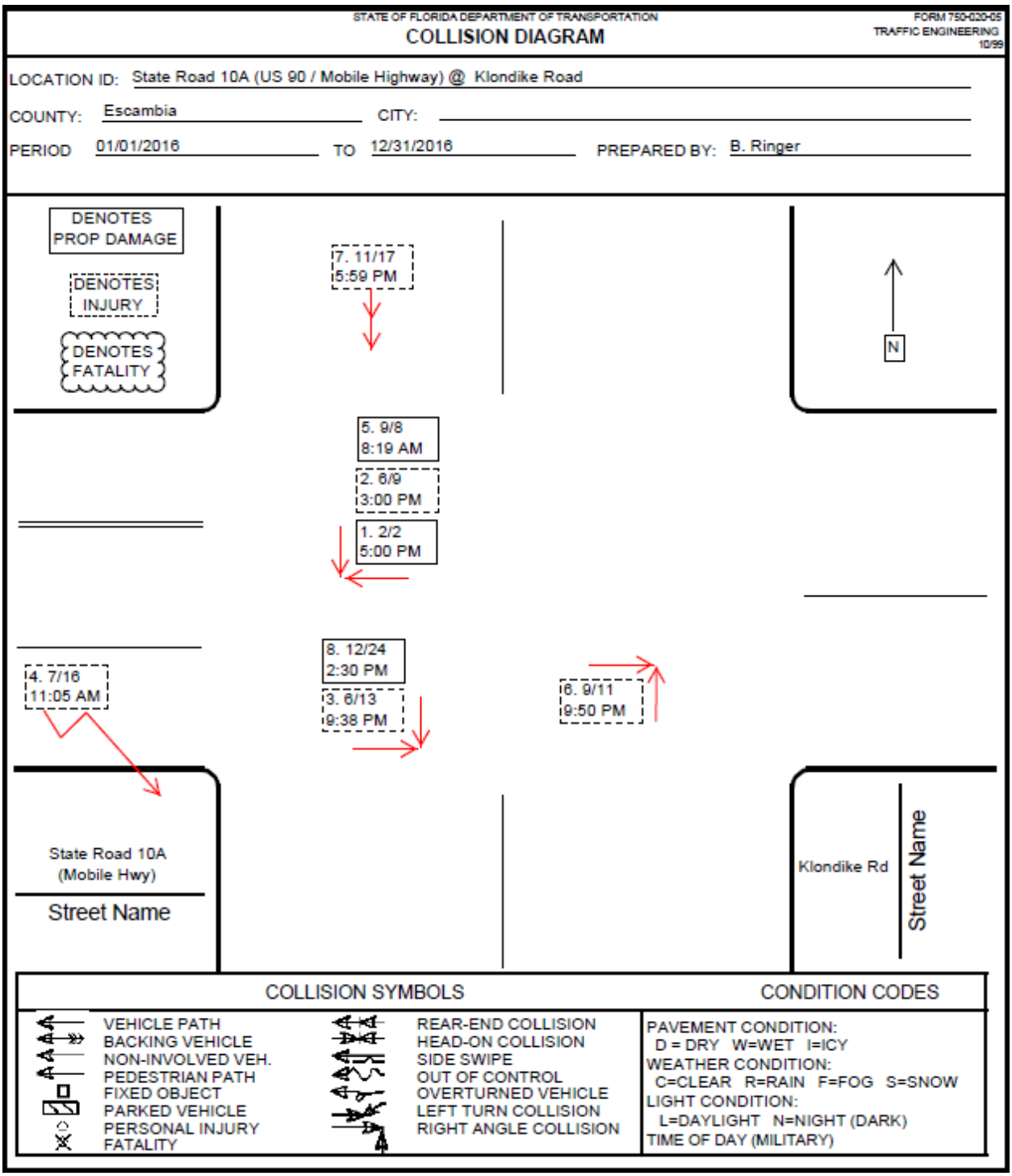



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
COLLISION DIAGRAM
FORM 750-020-05
TRAFFIC ENGINEERING
10/99
LOCATION ID: State Road 10A (US 90 / Mobile Highway) @ Klondike Road
COUNTY: Escambia
CITY:
PERIOD 01/01/2013 TO 12/31/2013
PREPARED BY: B. Ringer
DENOTES PROP DAMAGE
DENOTES INJURY
DENOTES FATALITY
10. 11/16 12:21 PM
7. 6/5 3:42 PM
1. 1/11 11:49 AM
5. 2/9 8:56 AM
8. 6/29 4:36 PM
4. 2/5 10:50 AM
6. 5/20 4:12 PM
3. 2/3 1:18 PM
2. 1/25 11:01 PM
9. 7/14 9:31 PM
11. 12/20 5:20 PM
N
State Road 10A (Mobile Hwy)
Street Name
Klondike Rd
Street Name
COLLISION SYMBOLS
VEHICLE PATH
BACKING VEHICLE
NON-INVOLVED VEH.
PEDESTRIAN PATH
FIXED OBJECT
PARKED VEHICLE
PERSONAL INJURY
FATALITY
REAR-END COLLISION
HEAD-ON COLLISION
SIDE SWIPE
OUT OF CONTROL
OVERTURNED VEHICLE
LEFT TURN COLLISION
RIGHT ANGLE COLLISION
CONDITION CODES
PAVEMENT CONDITION:
D = DRY W=WET I=ICY
WEATHER CONDITION:
C=CLEAR R=RAIN F=FOG S=SNOW
LIGHT CONDITION:
L=DAYLIGHT N=NIGHT (DARK)
TIME OF DAY (MILITARY)


STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
COLLISION DIAGRAM
FORM 750-020-05
TRAFFIC ENGINEERING
10/99
LOCATION ID: State Road 10A (US 90 / Mobile Highway) @ Klondike Road
COUNTY: Escambia
CITY:
PERIOD 01/01/2014 TO 12/31/2014
PREPARED BY: B. Ringer
DENOTES PROP DAMAGE
DENOTES INJURY
DENOTES FATALITY
N
1. 2/12 6:16 PM
2. 4/8 5:38 PM
3. 7/22 4:09 PM
4. 12/6 6:44 PM
State Road 10A (Mobile Hwy)
Street Name
Klondike Rd
Street Name
COLLISION SYMBOLS
VEHICLE PATH
BACKING VEHICLE
NON-INVOLVED VEH.
PEDESTRIAN PATH
FIXED OBJECT
PARKED VEHICLE
PERSONAL INJURY
FATALITY
REAR-END COLLISION
HEAD-ON COLLISION
SIDE SWIPE
OUT OF CONTROL
OVERTURNED VEHICLE
LEFT TURN COLLISION
RIGHT ANGLE COLLISION
CONDITION CODES
PAVEMENT CONDITION:
D = DRY W=WET I=ICY
WEATHER CONDITION:
C=CLEAR R=RAIN F=FOG S=SNOW
LIGHT CONDITION:
L=DAYLIGHT N=NIGHT (DARK)
TIME OF DAY (MILITARY)

**S.R. 10A (US 90 / Mobile Highway) at Klondike Road**
**Section No. 48020, Escambia County**
**July 27, 2017**




STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
COLLISION DIAGRAM
FORM 750-020-05
TRAFFIC ENGINEERING
10/99
LOCATION ID: State Road 10A (US 90 / Mobile Highway) @ Klondike Road
COUNTY: Escambia
CITY:
PERIOD 01/01/2016 TO 12/31/2016
PREPARED BY: B. Ringer
DENOTES PROP DAMAGE
DENOTES INJURY
DENOTES FATALITY
7. 11/17 5:59 PM
5. 9/8 8:19 AM
2. 6/9 3:00 PM
1. 2/2 5:00 PM
8. 12/24 2:30 PM
3. 6/13 9:38 PM
6. 9/11 9:50 PM
4. 7/16 11:05 AM
N
State Road 10A (Mobile Hwy)
Street Name
Klondike Rd
Street Name
COLLISION SYMBOLS
VEHICLE PATH
BACKING VEHICLE
NON-INVOLVED VEH.
PEDESTRIAN PATH
FIXED OBJECT
PARKED VEHICLE
PERSONAL INJURY
FATALITY
REAR-END COLLISION
HEAD-ON COLLISION
SIDE SWIPE
OUT OF CONTROL
OVERTURNED VEHICLE
LEFT TURN COLLISION
RIGHT ANGLE COLLISION
CONDITION CODES
PAVEMENT CONDITION:
D = DRY W=WET I=ICY
WEATHER CONDITION:
C=CLEAR R=RAIN F=FOG S=SNOW
LIGHT CONDITION:
L=DAYLIGHT N=NIGHT (DARK)
TIME OF DAY (MILITARY)

**S.R. 10A (US 90 / Mobile Highway) at Klondike Road**
**Section No. 48020, Escambia County**
**July 27, 2017**

## MUTCD Warrant No. 1 Eight- Hour Vehicular Volume Condition A

| | | |
|---|---|---|
| Major Street: S.R. 10A (Mobile Highway) | No. of Approach Lanes: 1 | Engineer Technician: Phillip Kurth |
| Minor Street: Klondike Road | No. of Approach Lanes: 1 | Date: 7/27/2017 |
| City: | | County: Escambia |
| Major Street 85% speed > 40 MPH Yes ( X ) No ( ) | | Isolated Community < 10,000 Population Yes ( ) No ( X ) |

| | Minimum Vehicles/ Hr. | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Requirement | 100% | 70% | 100% | 70% | Hour Volumes | | | | | | | | | | | | | | Volumes Met | |
| Approach Lanes | 1 | | 2 or more | | 6-7am | 7-8am | 8-9am | 9-10am | 10-11am | 11-12am | 12-1pm | 1-2pm | 2-3pm | 3-4pm | 4-5pm | 5-6pm | 6- 7pm | | Yes | No |
| Both Approaches on Major Street | 500 (400) | 350 (280) | 600 (480) | **420 (336)** | **631** | **787** | **596** | **479** | | **473** | **526** | | **590** | **732** | **988** | **983** | | | **X** | |
| AND Highest Approach on Minor Street (Thrus & Lefts) | 150 (120) | **105 (84)** | 200 (160) | 140 (112) | **14** | **23** | **34** | **29** | | **24** | **22** | | **29** | **36** | **44** | **37** | | | | **X** |
| Adjusted Minor Street Movement | | | | | **34** | **53** | **78** | **70** | | **71** | **69** | | **99** | **108** | **145** | **169** | | | | **X** |

Yes Excessive delay or conflict entering the major street **100 %** of Right Turns Added

Hours Meeting Threshold

| | | |
|---|---|---|
| Warrant Satisfied | Yes ( ) | No ( **X** ) |
| ( 80% Volumes Met ) | Yes ( ) | No ( **X** ) |

## MUTCD Warrant No. 1 Eight-Hour Vehicular Volume Condition B (100% Right Turn Volume)

| | | |
|---|---|---|
| Major Street: S.R. 10A (Mobile Highway) | No. of Approach Lanes: 1 | Engineer Technician: Phillip Kurth |
| Minor Street: Klondike Road | No. of Approach Lanes: 1 | Date: 7/27/2017 |
| City: | | County: Escambia |
| Major Street 85% speed > 40 MPH Yes ( **X** ) No ( ) | | Isolated Community < 10,000 Population Yes ( ) No ( X ) |

| | Minimum Vehicles/ Hr. | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Requirement | 100% | 70% | 100% | 70% | Hour Volumes | | | | | | | | | | | | | | Volumes Met | |
| Approach Lanes | 1 | | 2 or more | | 6-7am | 7-8am | 8-9am | 9-10am | 10-11am | 11-12am | 12-1pm | 1-2pm | 2-3pm | 3-4pm | 4-5pm | 5-6pm | 6- 7pm | | Yes | No |
| Both Approaches on Major Street | 750 (600) | 525 (420) | 900 (720) | **630 (504)** | **631** | **787** | **596** | **479** | | **473** | **526** | | **590** | **732** | **988** | **983** | | | | **X** |
| AND Adjusted Minor Street Movement | 75 (60) | **53 (42)** | 100 (80) | 70 (56) | **34** | **53** | **78** | **70** | | **71** | **69** | | **99** | **108** | **145** | **169** | | | **X** | |

AND Will a traffic signal seriously disrupt progressive traffic flow on major street? Yes ( ) No ( X )

Hours Meeting Threshold

| | | |
|---|---|---|
| Warrant Satisfied | Yes ( ) | No ( X ) |
| ( 80% Volumes Met ) | Yes ( X ) | No ( ) |

## MUTCD Warrant 2 - Four Hour Vehicular Volume

City: _____ Engineer Technician: **Phillip Kurth**
County: **Escambia** Date: **July 27, 2017**

Major Street: **SR 10A (Mobile Highway)** Lanes: **1** Critical Approach Speed: **56+**
Minor Street: **Klondike Road** Lanes: **1**

**Volume Level Criteria**

1. Is the critical speed of major street traffic > 70 km/h (40 mph) ? ☒ Yes ☐ No
2. Is the intersection in a built-up area of isolated community of <10,000 population? ☐ Yes ☒ No

If Question 1 or 2 above is answered "Yes", then use "70%" volume level ☒ 70% ☐ 100%

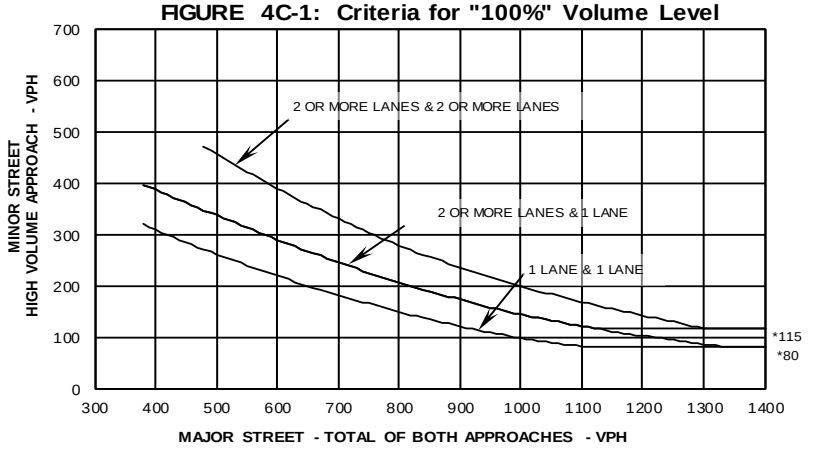
**WARRANT 2 - FOUR-HOUR VEHICULAR VOLUME**
*If all four points lie above the appropriate line, then the warrant is satisfied.*

Applicable: ☒ Yes ☐ No
Satisfied: ☐ Yes ☒ No

*Plot four volume combinations on the applicable figure below.*

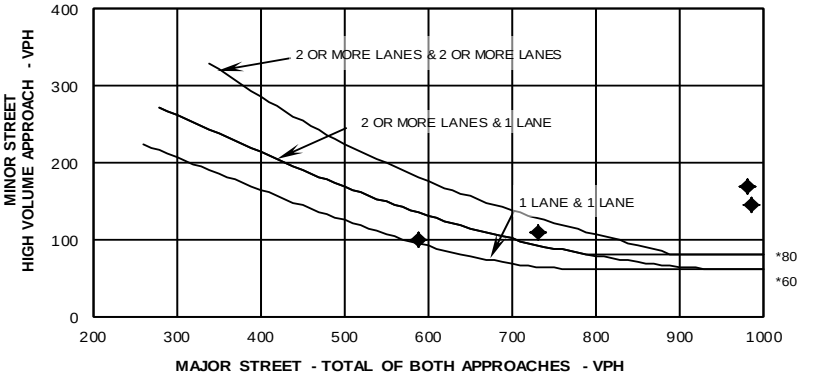
| Four Highest Hours | Volumes | |
|---|---|---|
| | Major Street | Minor Street |
| 2:00 PM 3:00 PM | 590 | 99 |
| 3:00 PM 4:00 PM | 732 | 108 |
| 4:00 PM 5:00 PM | 988 | 145 |
| 5:00 PM 6:00 PM | 983 | 169 |

**FIGURE 4C-1: Criteria for "100%" Volume Level**




**Note:* *115 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 80 vph applies as the lower threshold volume threshold for a minor street approach with one lane.*

**FIGURE 4C-2: Criteria for "70%" Volume Level**
(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)




**Note:* *80 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 60 vph applies as the lower threshold volume threshold for a minor street approach with one lane.*

Source: Revised from NCHRP Report 457

## MUTCD Warrant 7 - Crash Experience

| | | |
|---|---|---|
| Major Street S.R. 10A (Mobile Highway) | No. of Approach Lanes: 1 | Engineer Technician: Phillip Kurth |
| Minor Street: Klondike Road | No. of Approach Lanes: 1 | Date: 7 /27/ 2017 |
| City: | | County: Escambia |
| Major Street 85% speed > 40 MPH Yes ( X ) No ( ) | | Isolated Community < 10,000 Population Yes ( ) No ( X ) |

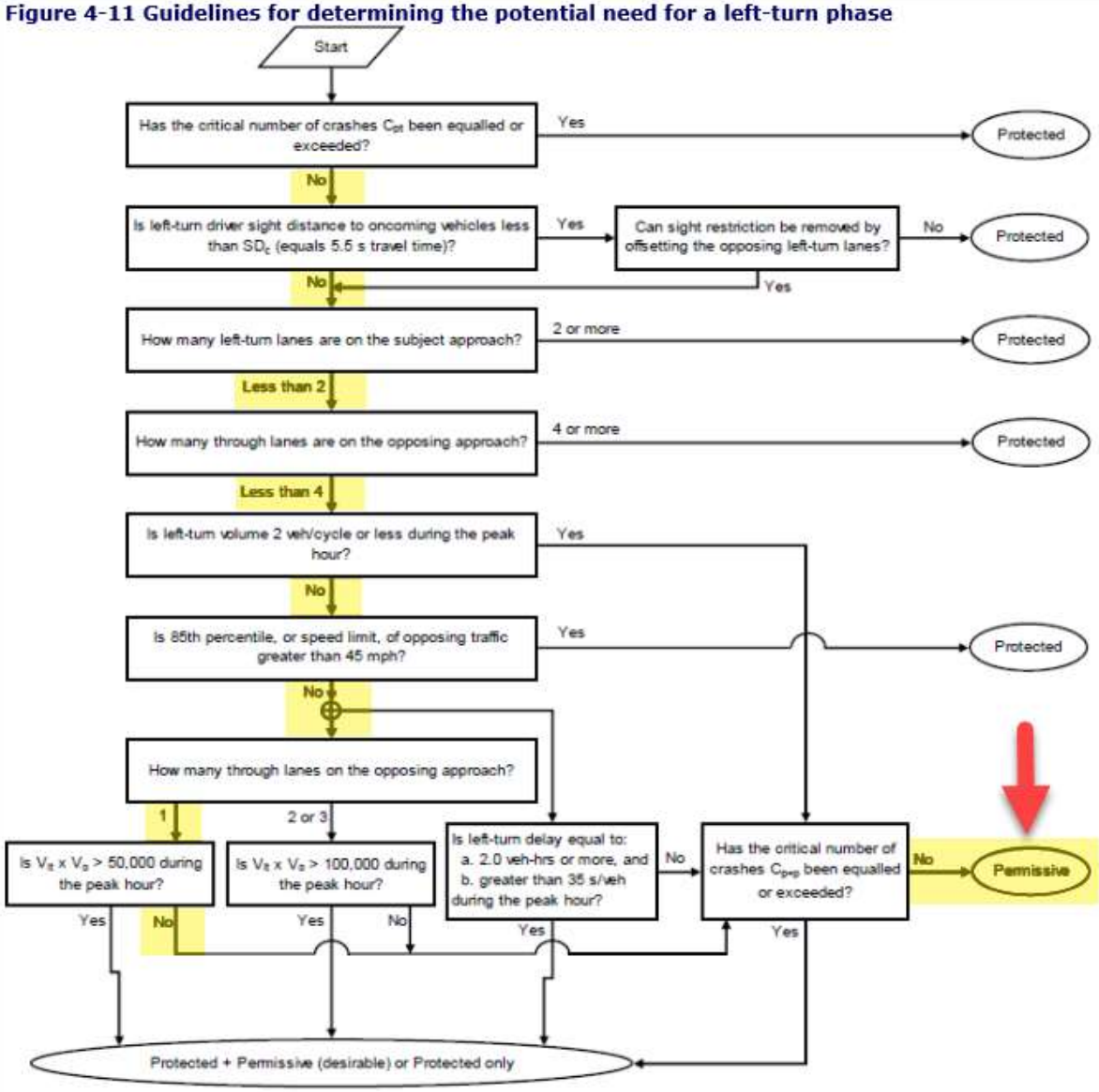
| | Minimum Requirements | Warrant | Met YES | Met NO | Fulfilled Yes | Fulfilled No |
|---|---|---|---|---|---|---|
| | 1. One of the warrants to the right is met | Warrant #1 - Condition A - Minimum Vehicle Volume (80% satisfied) **OR** | | X | X | |
| | | Warrant #1 - Condition B - Minimum Vehicle Volume (80% satisfied) **OR** | X | | | |
| | | Warrant #4 - Pedestrian Volume 80 ped/hr for 4 hrs. or 152 ped/hr for 1 hr | | **N/A** | | |
| **AND** | 2. Adequate trial of less restrictive remedies and enforcement has failed to reduce crash frequency. | Measure tried: Eastbound left-turn lane and reduced speed limit of 45 mph. | | | X | |
| **AND** | Five or more reported crashes, of types susceptible to correction by traffic signal have occurred within a 12-month period: **2012/2, 2013/8, 2014/3, 2015/6 and 2016/6** | | | | X | |

**Warrant Satisfied Yes ( X ) No ( )**

## FHWA Traffic Signal Timing Manual – Chapter 4
## Figure 4-11 Guidelines for determining the potential need for a left-turn phase

### All Approaches

**Figure 4-11 Guidelines for determining the potential need for a left-turn phase**




| Number of Left-turn Movements on Subject Road | Period During Which Crashes are Considered (years) | Critical Left-Turn-Related Crash Count When Considering Protected-only, $C_{pt}$ (crashes/period) | When Considering Prot.+Perm, $C_{p+p}$ (crashes/period) |
|---|---|---|---|
| One | 1 | 6 | 4 |
| One | 2 | 11 | 6 |
| One | 3 | 14 | 7 |
| Both | 1 | 11 | 6 |
| Both | 2 | 18 | 9 |
| Both | 3 | 26 | 13 |

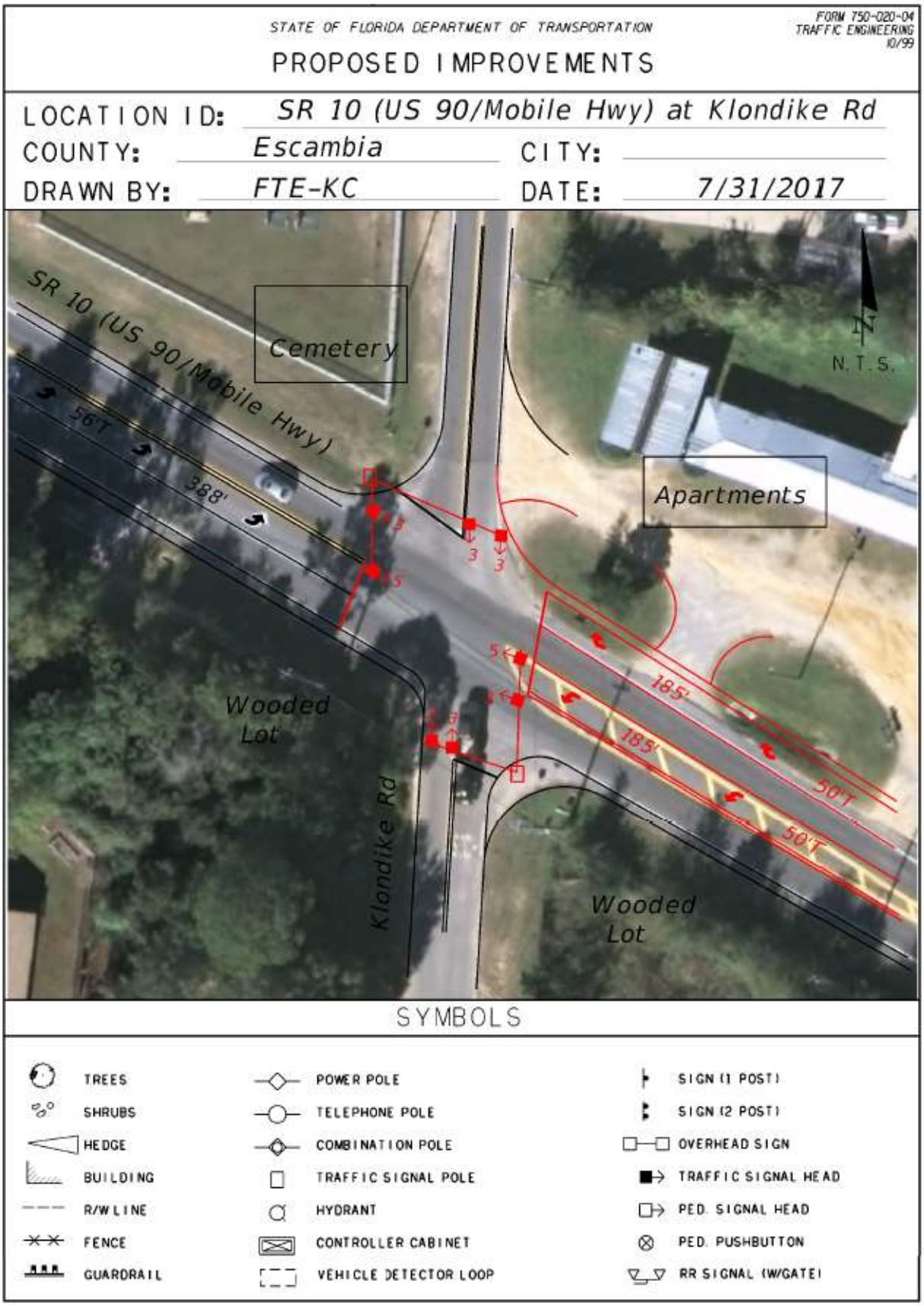
| Oncoming Traffic Speed Limit (mph) | Minimum Sight Distance to Oncoming Vehicles, $SD_c$ (ft) |
|---|---|
| 25 | 200 |
| 30 | 240 |
| 35 | 280 |
| 40 | 320 |
| 45 | 360 |
| 50 | 400 |
| 55 | 440 |
| 60 | 480 |

Variables
$V_t$ = left-turn volume on the subject approach, veh/h
$V_o$ = through plus right-turn volume on the approach opposing the subject left-turn movement, veh/h

Source: Adapted from (Kell and Fullerton, 1998; Orcutt, 1993; Traffic Engineering Manual, 1999).

**NOTE:** Opposing traffic speed was based on **posted speed** as 85th percentile speed is typically not collected for signalized intersections.

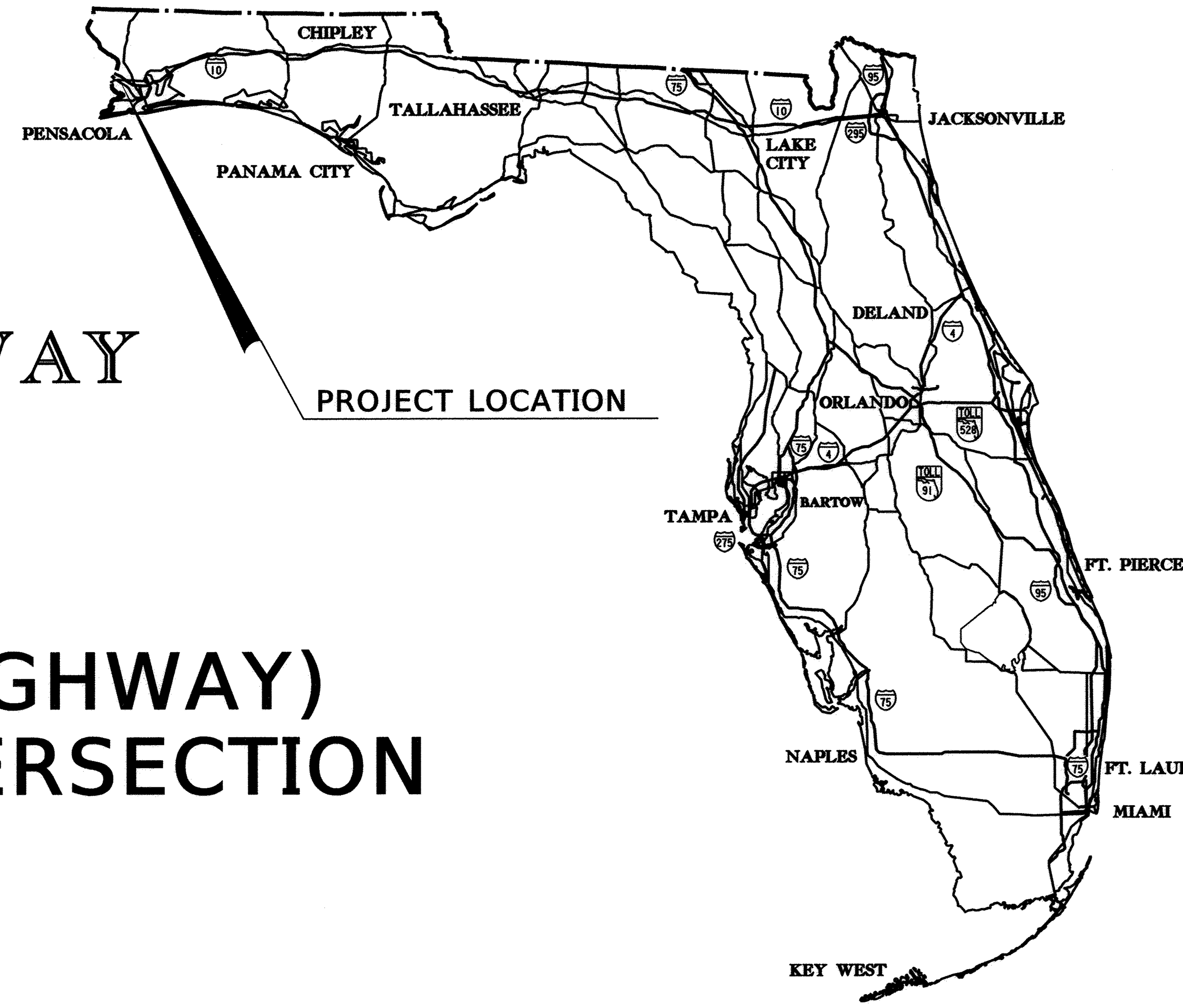
# Condition Diagram of Recommendation



# STATE OF FLORIDA
# DEPARTMENT OF TRANSPORTATION

## MAPS OF THE
## STATE HIGHWAY
## MAINTENANCE / RIGHT OF WAY CONTROL MAP

## F.P. No. 4367241
## S.R. 10A (U.S. 90 / MOBILE HIGHWAY) AT C.R. 99 (BEULAH ROAD) INTERSECTION
## ESCAMBIA COUNTY




### LEGEND

| | | |
|---|---|---|
| AC. | = | ACRE |
| AHD | = | AHEAD |
| ALUM. | = | ALUMINUM |
| ASSOC. | = | ASSOCIATES |
| AZ. | = | AZIMUTH |
| BK | = | BACK |
| B/L | = | BASELINE |
| B.O.S. | = | BEGINNING OF SURVEY |
| C/L | = | CENTERLINE |
| (C) | = | COMPUTED |
| C1 | = | CURVE NUMBER |
| CH ; C.B. | = | CHORD BEARING |
| C.R. | = | COUNTY ROAD |
| CONC. | = | CONCRETE |
| COR., CORN. | = | CORNER |
| CORP. | = | CORPORATION |
| CONST. | = | CONSTRUCTION |
| d | = | PENNYWEIGHT |
| Δ | = | DELTA ANGLE |
| D | = | DEGREE OF CURVE |
| (D) | = | DEED MEASUREMENT |
| E | = | EAST |
| E.F.B. | = | ELECTRONIC FIELD BOOK |
| E.O.S. | = | END OF SURVEY |
| EXIST. | = | EXISTING |
| (F) | = | FIELD MEASUREMENT |
| F.A.P. | = | FEDERAL AID PROJECT |
| F.D.O.T. | = | FLORIDA DEPARTMENT OF TRANSPORTATION |
| FL. | = | FLORIDA |
| FND. | = | FOUND |
| F.P.; FP | = | FINANCIAL PROJECT |
| FT. | = | FEET, FORT |
| GALV. | = | GALVANIZED |
| G.L.O. | = | GENERAL LAND OFFICE |
| GOV'T. | = | GOVERNMENT |
| HWY. | = | HIGHWAY |
| ID. | = | IDENTIFICATION |
| INC. | = | INCORPORATED |
| I.P. | = | IRON PIPE |
| IR & C | = | IRON ROD & CAP |
| L | = | LENGTH OF CURVE |
| L1 | = | LINE LABEL |
| LB | = | LICENSED BUSINESS |
| L.O.C. | = | LIMITS OF CONSTRUCTION |
| LS | = | LICENSED SURVEYOR |
| LT. | = | LEFT |
| MAINT. | = | MAINTAINED |
| MK. | = | MARK |
| MON. | = | MONUMENT |
| N | = | NORTH |
| NA, N/A | = | NOT APPLICABLE |
| NAVD | = | NORTH AMERICAN VERTICAL DATUM |
| NE | = | NORTHEAST |
| No. ; # | = | NUMBER |
| N.T.S. | = | NOT TO SCALE |
| NW | = | NORTHWEST |

| | | |
|---|---|---|
| (P) | = | PLAT |
| P.B. | = | PLAT BOOK |
| P.C. | = | POINT OF CURVATURE |
| P.C.P. | = | PERMANENT CONTROL POINT |
| P.O.C. | = | POINT ON CURVE |
| PG. | = | PAGE |
| P.I. | = | POINT OF INTERSECTION |
| P.K., PK | = | PARKER KALON |
| P.L.S. | = | PROFESSIONAL LAND SURVEYOR |
| P.O.T. | = | POINT ON TANGENT |
| P.R.C. | = | POINT OF REVERSE CURVE |
| PRELIM. | = | PRELIMINARY |
| P.R.M., PRM | = | PERMANENT REFERENCE MONUMENT |
| PROP | = | PROPERTY, PROPOSED |
| P.S.M. | = | PROFESSIONAL SURVEYOR AND MAPPER |
| P.T. | = | POINT OF TANGENCY |
| PUB. | = | PUBLISHED |
| R | = | RADIUS OR RANGE |
| RD. | = | ROAD |
| REF. | = | REFERENCE |
| REG. | = | REGISTERED |
| R.L.S., RLS | = | REGISTERED LAND SURVEYOR |
| R- -E | = | RANGE EAST |
| R- -W | = | RANGE WEST |
| RT. | = | RIGHT |
| R/W | = | RIGHT OF WAY |
| S | = | SOUTH |
| SE | = | SOUTHEAST |
| SQ. | = | SQUARE |
| S.R. | = | STATE ROAD |
| S.R.D., SRD | = | STATE ROAD DEPARTMENT |
| SEC. | = | SECTION |
| S.F. | = | SQUARE FEET |
| STA. | = | STATION |
| ST. | = | STREET, SAINT |
| SUR. | = | SURVEY, SURVEYOR |
| SURV. | = | SURVEY, SURVEYOR |
| SW | = | SOUTHWEST |
| T | = | TANGENT OR TOWNSHIP |
| T- -N | = | TOWNSHIP NORTH |
| T- -S | = | TOWNSHIP SOUTH |
| T.B. | = | TANGENT BEARING |
| T.C. | = | TANGENT TO CURVE |
| U.S. | = | UNITED STATES |
| USC&GS | = | UNITED STATES COASTAL AND GEODETIC SURVEY |
| USDA | = | UNITED STATES DEPARTMENT OF AGRICULTURE |
| W | = | WEST |
| W/ | = | WITH |
| WIT. | = | WITNESS |
| W.P.I. | = | WORK PROGRAM ITEM |
| ' | = | MINUTES, FEET |
| ° | = | DEGREES |
| " | = | SECONDS, INCHES |
| & | = | AND |
| X | = | EASTING |
| Y | = | NORTHING |
| +/- | = | MORE OR LESS |

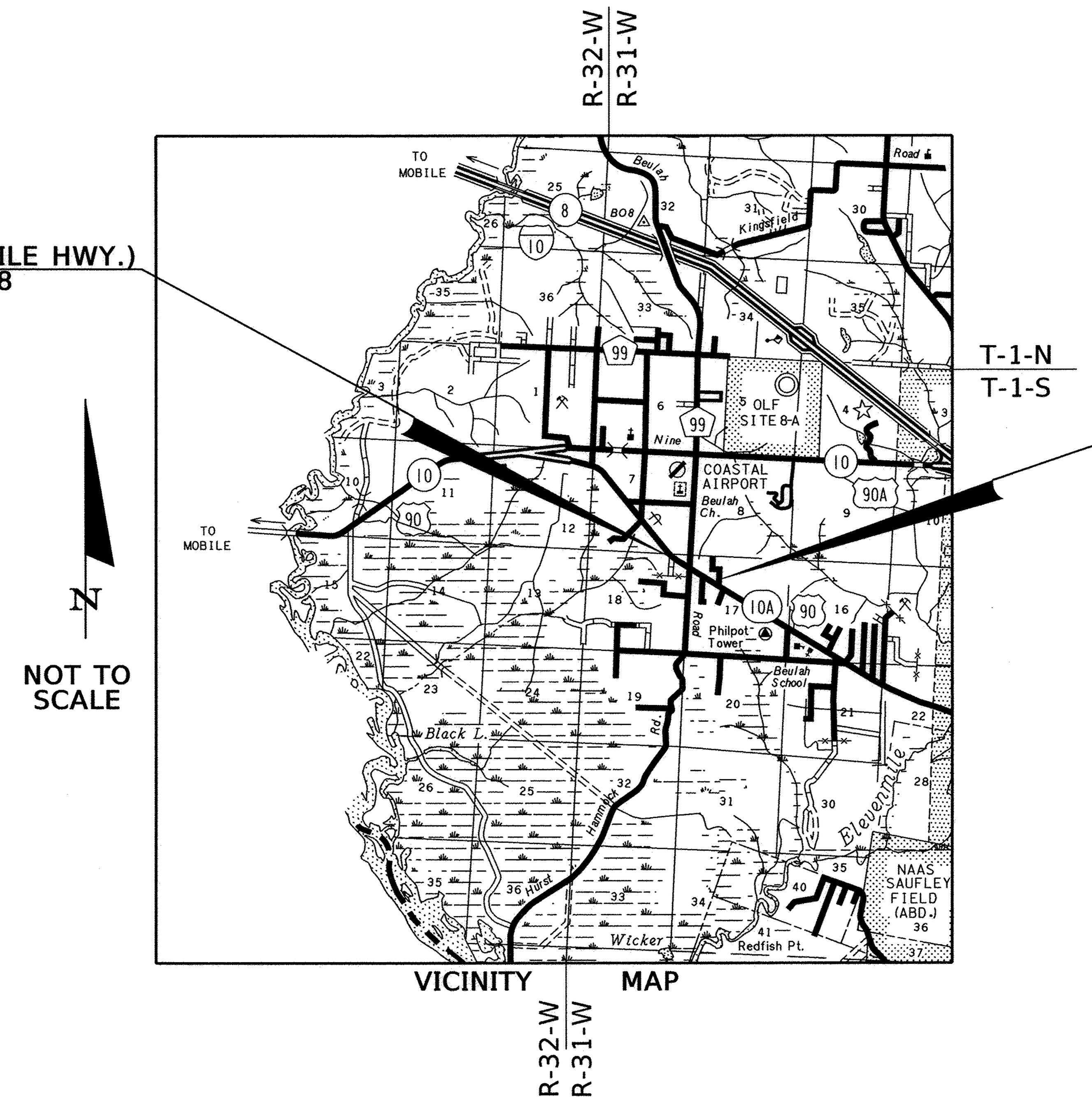
| INDEX | |
|---|---|
| SHEET No. | DESCRIPTION |
| 1 | COVER SHEET |
| 2 | KEY MAP |
| 3 | DETAIL SHEET, REFERENCE POINTS |

### GENERAL NOTES

1. ALL BEARINGS SHOWN HEREON ARE GRID BASED ON STATE PLANE COORDINATES, FLORIDA NORTH ZONE, LAMBERT PROJECTION, NORTH AMERICAN DATUM 1983/2011 AS DERIVED FROM STATIONS "ESC 4057", "ESC 4067", "ESC 4071", "ESC 4072", "ESC4073", "ESC4074" AND "Q302" AS PROVIDED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. ALL FLORIDA STATE PLANE COORDINATES SHOWN HEREON ARE ENGLISH AND BASED ON THE SAME.
2. PRIMARY GEODETIC NETWORK CONTROL WAS ESTABLISHED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. ALL SECONDARY TRAVERSES PERFORMED BY NOBLES CONSULTING GROUP ARE BASED ON SAID CONTROL NETWORK.
3. THIS SURVEY WAS PERFORMED FOR THE PURPOSE OF ESTABLISHING A CENTERLINE OF SURVEY, LOCATING LIMITS OF MAINTAINED RIGHT OF WAY, EXISTING MONUMENTATION, NECESSARY LAND LINES AND PLACING ADDITIONAL MONUMENTS WHERE REQUIRED. SAID DATA TO BE USED IN THE PREPARATION OF RIGHT OF WAY MAPS.
4. THE CENTERLINE WAS STAKED ON A PROPORTIONAL DISTANCE BETWEEN THE MAJOR CONTROL POINTS SO THAT THE CENTERLINE WILL COINCIDE WITH THE FLORIDA STATE PLANE COORDINATE SYSTEM. MINOR SIDE ROADS NOT FIELD STAKED.
5. UNLESS OTHERWISE SHOWN, ALL DATA NOTED AS (F) HAS BEEN CALCULATED FROM A CLOSED FIELD TRAVERSE OR DIRECT FIELD MEASUREMENT.
6. ANGLES ARE 90°00'00" UNLESS SHOWN OTHERWISE.
7. EXISTING RIGHTS OF WAY AS SHOWN HEREON COME FROM THE R/W MAP FOR PROJECT F.P. 2186801. EXISTING COUNTY RIGHTS OF WAY ARE SUPPORTED BY DEED INFORMATION.
8. THIS MAINTENANCE / RIGHT OF WAY CONTROL MAP IS SUPPORTED BY A SURVEYOR'S REPORT FOR F.P. 4367241. ADDITIONAL PERTINENT INFORMATION REGARDING THE SURVEY CAN BE FOUND IN SAID REPORT.
9. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
10. ATTENTION IS DIRECTED TO THE FACT THAT THESE MAPS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN SCALING DATA.
11. THE FIELD WORK FOR THIS SURVEY WAS STARTED ON MARCH 18, 2015 AND COMPLETED ON AUGUST 7, 2015.
12. LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR RIGHTS OF WAY, EASEMENTS, OWNERSHIP OR OTHER INSTRUMENTS OF RECORD.
13. THIS MAINTENANCE / RIGHT OF WAY CONTROL MAP WAS PREPARED BY:
NOBLES CONSULTING GROUP, INC.
2844 PABLO AVENUE, TALLAHASSEE, FLORIDA, 32308
PHONE (850) 385-1179

BEGIN SURVEY
S.R. 10A
(U.S. 90 / MOBILE HWY.)
STA. 223+38.78

END SURVEY
S.R. 10A
(U.S. 90 / MOBILE HWY.)
STA. 249+34.33




VICINITY MAP

### CONTROL DATA TABLE

| | STATION | X (EASTING) | Y (NORTHING) | SCALE FACTOR |
|---|---|---|---|---|
| C/L SURVEY S.R. 10A | B.O.S. STA. 223+38.78 | 1060528.9984 | 564329.7332 | 0.99996733 |
| | E.O.S. STA. 249+34.33 | 1062751.5317 | 562989.1214 | 0.99996695 |
| C/L SURVEY C.R. 99 | B.O.S. STA. 19+00.00 | 1061313.2586 | 562721.2079 | 0.99996686 |
| | E.O.S. STA. 42+00.00 | 1061442.1974 | 565017.5909 | 0.99996754 |

ZONE: FLORIDA NORTH LAMBERT
STATE PLANE IN : FEET

### CLERK OF COURT CERTIFICATION

FILED FOR RECORD IN THE OFFICE OF THE CLERK OF THE CIRCUIT COURT FOR THE COUNTY OF ESCAMBIA, STATE OF FLORIDA, IN ROAD MAP BOOK 1, PAGE 39,39A,39B, ON THE 21st DAY OF June, A.D. 2016.

PAM CHILDERS, CLERK OF THE CIRCUIT COURT
ESCAMBIA COUNTY, FLORIDA


### SURVEYOR'S CERTIFICATION

THIS SURVEY WAS PERFORMED FOR THE SPECIFIC PURPOSE OF ESTABLISHING A SURVEY CENTERLINE OR BASELINE AND LOCATING THE LIMITS OF MAINTAINED RIGHT OF WAY AS IDENTIFIED BY THE MAINTENANCE ENGINEER FOR THE TRANSPORTATION FACILITY SHOWN AND DEPICTED HEREON. I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS IS A TRUE, ACCURATE AND COMPLETE DEPICTION OF A FIELD SURVEY PERFORMED UNDER MY DIRECTION AND COMPLETED ON AUGUST 7, 2015. I FURTHER CERTIFY THAT SAID DRAWING ALSO MEETS THE REQUIREMENTS FOR A RIGHT OF WAY CONTROL SURVEY AND IS IN COMPLIANCE WITH THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

ERIC B. STUART
FLORIDA PROFESSIONAL SURVEYOR AND MAPPER NO.6707
ADDRESS:
600 UNIVERSITY OFFICE BLVD, SUITE 17-B
PENSACOLA, FLORIDA 32504

DATE OF SIGNATURE: 5/18/2016

NOT VALID WITHOUT SIGNATURE AND ORIGINAL RAISED SEAL

### COUNTY COMMISSIONER'S CERTIFICATION

THIS IS TO CERTIFY THAT SHEETS WITHIN AND ATTACHED NUMBERED 1 TO 3, CONSTITUTE A TRUE COPY OF THE OFFICIAL MAINTENANCE/RIGHT OF WAY CONTROL MAP SHOWING LOCATION AND SURVEY BY NOBLES CONSULTING GROUP, INC. FOR A PORTION OF BEULAH ROAD DESIGNATED AS F.P. NO. 4367241 IN ESCAMBIA COUNTY, FLORIDA.

THE PROPERTY LABELED "MAINT. COUNTY R/W" ON SAID SHEETS HAS BEEN VESTED IN ESCAMBIA COUNTY, FLORIDA PURSUANT TO THE PROVISION OF SECTION 95.361, FLORIDA STATUTES.

I FURTHER CERTIFY THAT THE RIGHT OF WAY LIMITS AS SHOWN ON THIS MAP HAVE BEEN MAINTAINED CONTINUOUSLY FOR FOUR (4) YEARS WITHOUT INTERRUPTION.

IN WITNESS WHEREOF, WE HAVE HEREUNTO SET OUR HANDS AND AFFIXED THE SEAL OF ESCAMBIA COUNTY AT PENSACOLA, FLORIDA, THIS 21st DAY OF June, A.D, 2016.

GROVER C. ROBINSON, IV, CHAIRMAN
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA


### COUNTY ENGINEER'S CERTIFICATION

THIS IS TO CERTIFY THAT SHEETS WITHIN AND ATTACHED NUMBERED 1 TO 3, CONSTITUTE A TRUE COPY OF THE OFFICIAL MAINTENANCE/RIGHT OF WAY CONTROL MAP SHOWING LOCATION AND SURVEY BY NOBLES CONSULTING GROUP, INC. FOR A PORTION OF BEULAH ROAD DESIGNATED AS F.P. NO. 4367241 IN ESCAMBIA COUNTY, FLORIDA.

THE PROPERTY LABELED "MAINT. COUNTY R/W" ON SAID SHEETS HAS BEEN VESTED IN ESCAMBIA COUNTY, FLORIDA PURSUANT TO THE PROVISION OF SECTION 95.361, FLORIDA STATUTES.

I FURTHER CERTIFY THAT THE RIGHT OF WAY LIMITS AS SHOWN ON THIS MAP HAVE BEEN MAINTAINED CONTINUOUSLY FOR FOUR (4) YEARS WITHOUT INTERRUPTION.

IN WITNESS WHEREOF, WE HAVE HEREUNTO SET OUR HANDS AND AFFIXED THE SEAL OF ESCAMBIA COUNTY AT PENSACOLA, FLORIDA, THIS 21st DAY OF June, A.D, 2016.

Joy Jones for Joy D. Blackmon
JOY D. BLACKMON, P.E.
DIRECTOR / COUNTY ENGINEER
ESCAMBIA COUNTY, FLORIDA

**COVER SHEET**
S.R. 10A (U.S 90 / MOBILE HIGHWAY) AT C.R. 99 (BEULAH ROAD) INTERSECTION



Maintenance Map Book 1, page 39

FOUND 4" SQUARE CONCRETE MONUMENT NO ID THE NW CORNER OF SECTION 18 T-1-S R-31-W

FOUND 4" ROUND CONCRETE MONUMENT NO ID THE NW CORNER OF THE NE QUARTER OF SECTION 18 T-1-S, R-31-W

SEE DETAIL "A"

S 87°33'56" E 2654.51'(F) S 86°50'13" E 2658.52'(F)

DETAIL "A" (NOT TO SCALE)

FOUND 1/2" IRON ROD NO ID

S 89°55'47" E 0.24'(F)

FOUND 2" OPEN IRON PIPE NO ID

S 41°30'08" E 0.51'(F)

FOUND 4" ROUND CONCRETE MONUMENT NO ID THE NW CORNER OF THE NE QUARTER OF SECTION 18 T-1-S, R-31-W

FOUND 1" OPEN IRON PIPE NO ID THE NE CORNER OF SECTION 18 T-1-S, R-31-W

800.71'(F)

90°27'00" (F)

S 87°14'11" E STA. 38+00.71

2659.35'(F)

DETAIL "B" (NOT TO SCALE)

S 71°26'38" W 2.50'(F)

FOUND 4" SQUARE CONCRETE MONUMENT STAMPED "CORP 7277"

FOUND 5/8" IRON ROD & CAP STAMPED "LB 6816" THE NE CORNER OF THE NW QUARTER OF SECTION 17 T-1-S, R-31-W

SEE DETAIL "B"

S 87°13'24" E 2655.00'(F)

SEE DETAIL "C"

FOUND 2-1/2" STEEL AXLE NO ID THE NE CORNER OF SECTION 17 T-1-S, R-31-W

FOUND 5/8" IRON ROD & CAP STAMPED "LB 6816" THE NE CORNER OF THE NW QUARTER OF SECTION 17 T-1-S, R-31-W

DETAIL "C" (NOT TO SCALE)

N 78°31'00" E 4.02'(F)

FOUND 2-1/2" STEEL AXLE NO ID THE NE CORNER OF SECTION 17 T-1-S, R-31-W

FOUND 4" SQUARE LIGHTWOOD POST NO ID

RANGE 31 WEST

RANGE 32 WEST

T-1-S

SCALE 1" = 200'

2640.61'(C)

N 03°13'33" E

2660.26'(C)

N 03°11'58" E

2648.23'(C)

N 03°16'48" E

2649.68'(F)

S 03°15'20" W

225 230 235 240 245

STA. 233+26.68

BEGIN SURVEY
S.R. 10A
(U.S. 90 / MOBILE HWY.)
STA. 223+38.78

℄ SURVEY S.R. 10A
(U.S. 90 / MOBILE HWY.)
STA. 233+26.68 =
℄ SURVEY C.R. 99
STA. 30+00.00

℄ SURVEY C.R. 99
N 03°12'49" E

℄ SURVEY S.R. 10A
(U.S. 90 / MOBILE HWY.)
STA. 241+88.77 =
℄ MINT JULEP TRAIL
STA. 30+00.00

62°06'56" (F)

S 58°54'07" E (GRID)

90°00'00" (F)

89°49'54" (F)

℄ SURVEY S.R. 10A
(U.S. 90 / MOBILE HWY.)
STA. 241+93.18 =
STA. 30+00.00
℄ DOOLEY DRIVE

END SURVEY
S.R. 10A
(U.S. 90 / MOBILE HWY.)
STA. 249+34.33

BLOCK "A" BLOCK "C" BLOCK "E" BLOCK "D"

TWIN SPIRES PLANTATION PLAT BOOK 18, PAGE 31

SHEET 3

NOTE: THE CENTERLINE OF SURVEY OF COUNTY ROAD 99 RUNS ALONG THE SECTION LINE AND ITS NORTHERLY PROJECTION FOR THE LENGTH OF THE SURVEY.

1845.42'(F)

N 03°12'49" E

2645.62'(F)

S 03°13'27" W

2648.00'(C)

N 03°16'48" E

2650.62'(F)

S 03°20'06" W

S 87°08'29" E 2655.54'(C) S 87°08'29" E 2657.91'(C) S 87°11'31" E 2656.27'(C) S 87°11'31" E 2656.12'(C)

CALCULATED CORNER THE SW CORNER OF THE NW QUARTER OF SECTION 18 T-1-S R-31-W NOT SET

CALCULATED CORNER THE SW CORNER OF THE NE QUARTER OF SECTION 18 T-1-S R-31-W NOT SET

FOUND RAILROAD SPIKE NO ID THE SE CORNER OF THE NE QUARTER OF SECTION 18 T-1-S, R-31-W

CALCULATED CORNER THE SE CORNER OF THE NW QUARTER OF SECTION 17 T-1-S R-31-W NOT SET

FOUND 5/8" IRON ROD & CAP STAMPED "LB 6816" THE NE CORNER OF THE SE QUARTER OF SECTION 17 T-1-S, R-31-W

DETAIL "D" (NOT TO SCALE)

S 09°52'51" W 0.15'(F)

FOUND 1/2" IRON ROD & CAP STAMPED "LS 1748" THE SW CORNER OF SECTION 18 T-1-S R-31-W

FOUND 1/2" IRON ROD & CAP STAMPED "LB 7073"

CALCULATED CORNER THE SW CORNER OF THE SE QUARTER OF SECTION 18 T-1-S R-31-W NOT SET

FOUND 1" OPEN IRON PIPE NO ID THE SE CORNER OF SECTION 18 T-1-S, R-31-W

FOUND 1/2" IRON ROD & CAP NO ID THE SE CORNER OF THE SW QUARTER OF SECTION 17 T-1-S R-31-W

FOUND 4" SQUARE CONCRETE MONUMENT NO ID THE SE CORNER OF SECTION 17 T-1-S, R-31-W

SEE DETAIL "D"

N 87°05'15" W 2656.74'(C) N 87°05'15" W 2656.74'(C) N 87°08'26" W 2653.68'(F) N 87°08'09" W 2653.54'(F)

FOUND 1/2" IRON ROD & CAP STAMPED "LS 1748" THE SW CORNER OF SECTION 18 T-1-S R-31-W

## KEY MAP

SEE SHEET ONE FOR CERTIFICATION, LEGEND AND GENERAL NOTES.
S.R. 10A (U.S 90 / MOBILE HIGHWAY) AT C.R. 99 (BEULAH ROAD) INTERSECTION

**MAINTENANCE / RIGHT OF WAY CONTROL MAP**

FLORIDA DEPARTMENT OF TRANSPORTATION
SURVEYING AND MAPPING

| REVISION | BY | DATE | REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| | BY | DATE |
|---|---|---|
| PRELIM | JEM | 8-22-15 |
| FINAL | JEM | 9-22-15 |
| CHECKED | EBS | 8-22-15 |

SECTION N/A

STATE ROAD No. 10A (U.S. 90 / MOBILE HWY.) ESCAMBIA COUNTY

MAPS PREPARED BY:
NOBLES CONSULTING GROUP, INC.
2844 PABLO AVENUE
TALLAHASSEE, FLORIDA 32308
PH: 850-385-1179 F: 850-385-1404

DATA SOURCE: 4367241.ZIP, 241.GPK

SCALE: 1" = 200'

F.P. NO. 4367241

SHEET 2 OF 3

Maintenance Map Book 1, Page 39 A

**NOTE: THE CENTERLINE OF SURVEY OF COUNTY ROAD 99 RUNS ALONG THE SECTION LINE AND ITS NORTHERLY PROJECTION FOR THE LENGTH OF THE SURVEY.**

FOUND 5/8" IRON ROD & CAP STAMPED "LB 6816" THE NE CORNER OF THE NW QUARTER OF SECTION 17 T-1-S, R-31-W

TWIN SPIRES PLANTATION
PLAT BOOK 18, PAGE 31

T-1-S, R-31-W SCALE 1" = 100'

MINT JULEP TRAIL (P)(F) 150' R/W

THOROUGHBRED ROAD (P)(F) (50' R/W)

BLOCK "A" BLOCK "B" BLOCK "C" BLOCK "D" BLOCK "E"

15' PUBLIC DRAINAGE EASEMENT (P)

10' PRIVATE DRAINAGE EASEMENT (P)

PUBLIC PARCEL "C"

PRIVATE PARCEL "A" CONSERVATION EASEMENT (P)

PRIVATE PARCEL "B"

FOUND 5/8" IRON ROD & CAP NO ID STA. 246+21.99 49.48'(F)

30' WIDE FDOT BUFFER

FOUND 1" OPEN IRON PIPE NO ID STA. 247+02.19 32.92'(F)

FOUND 4" SQUARE CONCRETE MONUMENT NO ID STA. 247+00.88 33.07'(F)

FOUND 1/2" IRON ROD & CAP STAMPED "CORP 4882" STA. 242+26.18 33.25'(F)

FOUND 1/2" IRON ROD & CAP STAMPED "CORP 7277" STA. 240+29.36 49.92'(F)

FOUND 1/2" IRON ROD & CAP STAMPED "LS 4082" STA. 239+22.06 32.89'(F)

FOUND 5/8" IRON ROD NO ID DISTURBED STA. 236+22.19 77.17(F)

FOUND 5/8" IRON ROD & CAP STAMPED "LB 6816" STA. 236+22.03 36.73'(F)

FOUND 1/2" IRON ROD & CAP STAMPED "CORP 7174" STA. 239+54.97 32.89'(F)

FOUND 1/2" IRON ROD & CAP STAMPED "CORP 7174" STA. 238+55.04 32.85'(F)

FOUND 1/2" IRON ROD NO ID STA. 233+81.71 32.65'(F)

FOUND 1/2" IRON ROD & CAP STAMPED "LB 7107" STA. 235+60.02 32.94'(F)

FOUND 5/8" IRON ROD & CAP STAMPED "LS 4082" STA. 25+74.04 33.30'(F)

FOUND 5/8" IRON ROD NO ID STA. 24+83.21 33.16'(F)

FOUND X-CUT IN DRIVEWAY NO ID STA. 27+17.44 24.83'(F)

FOUND 5/8" IRON ROD & CAP NO ID STA. 26+18.92 24.80'(F)

FOUND 5/8" IRON ROD & CAP NO ID STA. 24+55.63 24.80'(F)

FOUND 5/8" IRON ROD & CAP NO ID STA. 22+92.31 24.98'(F)

FOUND 1/2" IRON ROD NO ID STA. 21+39.60 33.11'(F)

FOUND 5/8" IRON ROD & CAP STAMPED "LB 6164" STA. 20+19.56 33.11'(F)

FOUND 5/8" IRON ROD & CAP NO ID STA. 21+28.89 24.60'(F)

FOUND 1/2" IRON ROD NO ID STA. 19+54.76 25.02'(F)

FOUND RAILROAD SPIKE NO ID THE SE CORNER OF THE NE QUARTER OF SECTION 18 T-1-S, R-31-W

FOUND 1/2" IRON ROD & CAP STAMPED "CORP 7277" STA. 229+71.07 31.30'(F)

FOUND 1/2" IRON ROD & CAP NO ID STA. 228+26.34 33.45'(F)

FOUND 1/2" IRON ROD & CAP STAMPED "LB 7612" STA. 227+25.62 33.65'(F)

FOUND 4" SQUARE CONCRETE MONUMENT NO ID STA. 226+50.77 33.66'(F)

FOUND 1/2" IRON ROD NO ID STA. 223+38.78 33.06'(F)

FOUND 1/2" IRON ROD & CAP STAMPED "LB 5879" STA. 223+38.78 32.90'(F)

FOUND 4" ROUND CONCRETE MONUMENT NO ID THE NW CORNER OF THE NE QUARTER OF SECTION 18 T-1-S, R-31-W

FOUND 1" OPEN IRON PIPE NO ID THE NE CORNER OF SECTION 18 T-1-S, R-31-W

FOUND SQUARE CONCRETE MONUMENT NO ID STA. 38+00.70 24.86'(F)

FOUND 1/2" IRON ROD & CAP STAMPED "CORP 4882" STA. 38+00.89 25.52'(F)

FOUND 5/8" IRON ROD & CAP STAMPED "PSM 5863" STA. 35+53.29 28.53'(F)

FOUND 1" OPEN IRON PIPE NO ID STA. 36+00.59 24.70'(F)

FOUND 1/2" IRON ROD & CAP STAMPED "LS 3286" STA. 34+50.60 24.46'(F)

FOUND 1/2" IRON ROD & CAP NO ID STA. 34+45.82 33.27'(F)

FOUND 1" OPEN IRON PIPE NO ID STA. 33+38.83 31.43'(F)

FOUND 1" OPEN IRON PIPE NO ID STA. 32+52.73 19.55'(F)

MAINT. COUNTY R/W

EXIST. R/W

EXIST. COUNTY R/W

2659.35'(F)

2658.52'(F)

S 86°50'13" E

S 87°14'11" E

90°27'00" (F)

S 03°12'49" W 800.71'(F)

117°53'04" (F)

62°06'53" (F)

89°59'54" (F)

90°00'00" (F)

N 03°12'49" E 1109.42'(C) 1109.21'(F)

N 03°12'49" E 1472.19'(P)

2646.13'(F)

1845.42'(F)

¢ SURVEY C.R. 99

¢ SURVEY S.R. 10A (U.S. 90 / MOBILE HWY.)

¢ MINT JULEP TRAIL

¢ DOOLEY DRIVE

**BEGIN SURVEY S.R. 10A (U.S.90 / MOBILE HWY.) STA. 223+38.78**

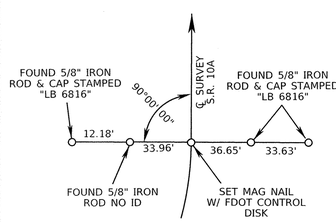
**¢ SURVEY S.R. 10A (U.S. 90 / MOBILE HWY.) STA. 233+26.68 = ¢ SURVEY C.R. 99 STA. 30+00.00**

**¢ SURVEY S.R. 10A (U.S. 90 / MOBILE HWY.) STA. 241+88.77 = ¢ MINT JULEP TRAIL STA. 30+00.00**

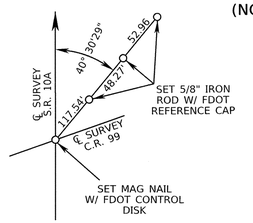
**¢ SURVEY S.R. 10A (U.S. 90 / MOBILE HWY.) STA. 241+93.18 = ¢ DOOLEY DRIVE STA. 30+00.00**

**END SURVEY S.R. 10A (U.S. 90 / MOBILE HWY.) STA. 249+34.33**

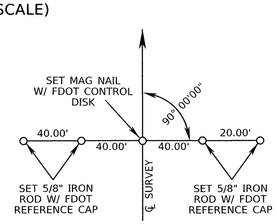
## REFERENCE POINTS
(NOT TO SCALE)



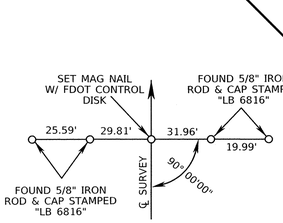

BEGIN ¢ SURVEY S.R. 10A STA. 223+38.78




¢ SURVEY S.R. 10A STA. 233+26.68 = ¢ SURVEY C.R. 99 STA. 30+00.00

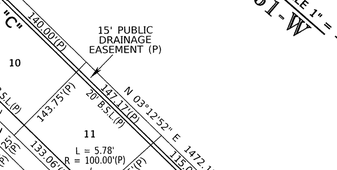



¢ SURVEY S.R. 10A STA. 241+00.00




END ¢ SURVEY S.R. 10A STA. 249+34.33

## REFERENCE POINTS
(NOT TO SCALE)




¢ SURVEY C.R. 99 STA. 19+00.00

¢ SURVEY C.R. 99 STA. 42+00.00

SEE SHEET ONE FOR CERTIFICATION, LEGEND AND GENERAL NOTES.
S.R. 10A (U.S 90 / MOBILE HIGHWAY) AT C.R. 99 (BEULAH ROAD) INTERSECTION

**MAINTENANCE / RIGHT OF WAY CONTROL MAP**

FLORIDA DEPARTMENT OF TRANSPORTATION
SURVEYING AND MAPPING

| REVISION | BY | DATE |
|---|---|---|
| | | |

| REVISION | BY | DATE |
|---|---|---|
| | | |

| REVISION | BY | DATE |
|---|---|---|
| | | |

| | BY | DATE |
|---|---|---|
| PRELIM | JEM | 8-22-15 |
| FINAL | JEM | 9-22-15 |
| CHECKED | EBS | 8-22-15 |

SECTION N/A

STATE ROAD No. 10A (U.S. 90 / MOBILE HWY.) ESCAMBIA COUNTY

F.P. NO. 4367241

MAPS PREPARED BY:
NOBLES CONSULTING GROUP, INC.
2844 PABLO AVENUE
TALLAHASSEE, FLORIDA 32308
PH: 850-385-1179 F: 850-385-1404

DATA SOURCE: 4367241.ZIP, 241.GPK

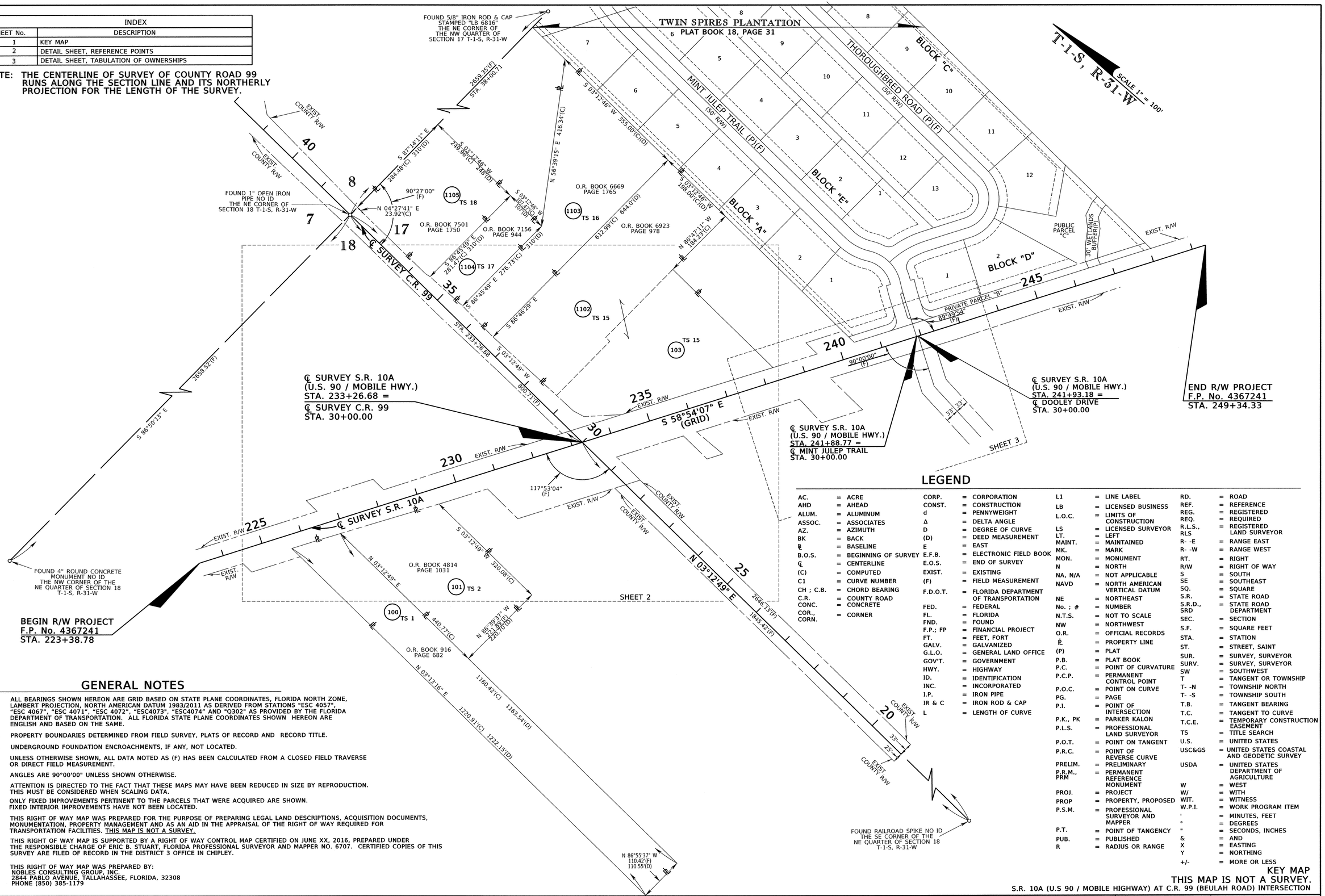
SCALE: 1" = 100'

SHEET 3 OF 3

Maintenance Map Book 1, Page 39B

| INDEX | |
|---|---|
| SHEET No. | DESCRIPTION |
| 1 | KEY MAP |
| 2 | DETAIL SHEET, REFERENCE POINTS |
| 3 | DETAIL SHEET, TABULATION OF OWNERSHIPS |

**NOTE: THE CENTERLINE OF SURVEY OF COUNTY ROAD 99 RUNS ALONG THE SECTION LINE AND ITS NORTHERLY PROJECTION FOR THE LENGTH OF THE SURVEY.**




## GENERAL NOTES

1. ALL BEARINGS SHOWN HEREON ARE GRID BASED ON STATE PLANE COORDINATES, FLORIDA NORTH ZONE, LAMBERT PROJECTION, NORTH AMERICAN DATUM 1983/2011 AS DERIVED FROM STATIONS "ESC 4057", "ESC 4067", "ESC 4071", "ESC 4072", "ESC4073", "ESC4074" AND "Q302" AS PROVIDED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. ALL FLORIDA STATE PLANE COORDINATES SHOWN HEREON ARE ENGLISH AND BASED ON THE SAME.
2. PROPERTY BOUNDARIES DETERMINED FROM FIELD SURVEY, PLATS OF RECORD AND RECORD TITLE.
3. UNDERGROUND FOUNDATION ENCROACHMENTS, IF ANY, NOT LOCATED.
4. UNLESS OTHERWISE SHOWN, ALL DATA NOTED AS (F) HAS BEEN CALCULATED FROM A CLOSED FIELD TRAVERSE OR DIRECT FIELD MEASUREMENT.
5. ANGLES ARE 90°00'00" UNLESS SHOWN OTHERWISE.
6. ATTENTION IS DIRECTED TO THE FACT THAT THESE MAPS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN SCALING DATA.
7. ONLY FIXED IMPROVEMENTS PERTINENT TO THE PARCELS THAT WERE ACQUIRED ARE SHOWN. FIXED INTERIOR IMPROVEMENTS HAVE NOT BEEN LOCATED.
8. THIS RIGHT OF WAY MAP WAS PREPARED FOR THE PURPOSE OF PREPARING LEGAL LAND DESCRIPTIONS, ACQUISITION DOCUMENTS, MONUMENTATION, PROPERTY MANAGEMENT AND AS AN AID IN THE APPRAISAL OF THE RIGHT OF WAY REQUIRED FOR TRANSPORTATION FACILITIES. THIS MAP IS NOT A SURVEY.
9. THIS RIGHT OF WAY MAP IS SUPPORTED BY A RIGHT OF WAY CONTROL MAP CERTIFIED ON JUNE XX, 2016, PREPARED UNDER THE RESPONSIBLE CHARGE OF ERIC B. STUART, FLORIDA PROFESSIONAL SURVEYOR AND MAPPER NO. 6707. CERTIFIED COPIES OF THIS SURVEY ARE FILED OF RECORD IN THE DISTRICT 3 OFFICE IN CHIPLEY.
10. THIS RIGHT OF WAY MAP WAS PREPARED BY:
NOBLES CONSULTING GROUP, INC.
2844 PABLO AVENUE, TALLAHASSEE, FLORIDA, 32308
PHONE (850) 385-1179

## LEGEND

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AC. | = ACRE | CORP. | = CORPORATION | L1 | = LINE LABEL | RD. | = ROAD |
| AHD | = AHEAD | CONST. | = CONSTRUCTION | LB | = LICENSED BUSINESS | REF. | = REFERENCE |
| ALUM. | = ALUMINUM | d | = PENNYWEIGHT | L.O.C. | = LIMITS OF CONSTRUCTION | REG. | = REGISTERED |
| ASSOC. | = ASSOCIATES | Δ | = DELTA ANGLE | LS | = LICENSED SURVEYOR | REQ. | = REQUIRED |
| AZ. | = AZIMUTH | D | = DEGREE OF CURVE | LT. | = LEFT | R.L.S., RLS | = REGISTERED LAND SURVEYOR |
| BK | = BACK | (D) | = DEED MEASUREMENT | MAINT. | = MAINTAINED | R- -E | = RANGE EAST |
| ℄ | = BASELINE | E | = EAST | MK. | = MARK | R- -W | = RANGE WEST |
| B.O.S. | = BEGINNING OF SURVEY | E.F.B. | = ELECTRONIC FIELD BOOK | MON. | = MONUMENT | RT. | = RIGHT |
| ℄ | = CENTERLINE | E.O.S. | = END OF SURVEY | N | = NORTH | R/W | = RIGHT OF WAY |
| (C) | = COMPUTED | EXIST. | = EXISTING | NA, N/A | = NOT APPLICABLE | S | = SOUTH |
| C1 | = CURVE NUMBER | (F) | = FIELD MEASUREMENT | NAVD | = NORTH AMERICAN VERTICAL DATUM | SE | = SOUTHEAST |
| CH ; C.B. | = CHORD BEARING | F.D.O.T. | = FLORIDA DEPARTMENT OF TRANSPORTATION | NE | = NORTHEAST | SQ. | = SQUARE |
| C.R. | = COUNTY ROAD | FED. | = FEDERAL | No. ; # | = NUMBER | S.R. | = STATE ROAD |
| CONC. | = CONCRETE | FL. | = FLORIDA | N.T.S. | = NOT TO SCALE | S.R.D., SRD | = STATE ROAD DEPARTMENT |
| COR., CORN. | = CORNER | FND. | = FOUND | NW | = NORTHWEST | SEC. | = SECTION |
| | | F.P.; FP | = FINANCIAL PROJECT | O.R. | = OFFICIAL RECORDS | S.F. | = SQUARE FEET |
| | | FT. | = FEET, FORT | ℄ | = PROPERTY LINE | STA. | = STATION |
| | | GALV. | = GALVANIZED | (P) | = PLAT | ST. | = STREET, SAINT |
| | | G.L.O. | = GENERAL LAND OFFICE | P.B. | = PLAT BOOK | SUR. | = SURVEY, SURVEYOR |
| | | GOV'T. | = GOVERNMENT | P.C. | = POINT OF CURVATURE | SURV. | = SURVEY, SURVEYOR |
| | | HWY. | = HIGHWAY | P.C.P. | = PERMANENT CONTROL POINT | SW | = SOUTHWEST |
| | | ID. | = IDENTIFICATION | P.O.C. | = POINT ON CURVE | T | = TANGENT OR TOWNSHIP |
| | | INC. | = INCORPORATED | PG. | = PAGE | T- -N | = TOWNSHIP NORTH |
| | | I.P. | = IRON PIPE | P.I. | = POINT OF INTERSECTION | T- -S | = TOWNSHIP SOUTH |
| | | IR & C | = IRON ROD & CAP | P.K., PK | = PARKER KALON | T.B. | = TANGENT BEARING |
| | | L | = LENGTH OF CURVE | P.L.S. | = PROFESSIONAL LAND SURVEYOR | T.C. | = TANGENT TO CURVE |
| | | | | P.O.T. | = POINT ON TANGENT | T.C.E. | = TEMPORARY CONSTRUCTION EASEMENT |
| | | | | P.R.C. | = POINT OF REVERSE CURVE | TS | = TITLE SEARCH |
| | | | | PRELIM. | = PRELIMINARY | U.S. | = UNITED STATES |
| | | | | P.R.M., PRM | = PERMANENT REFERENCE MONUMENT | USC&GS | = UNITED STATES COASTAL AND GEODETIC SURVEY |
| | | | | PROJ. | = PROJECT | USDA | = UNITED STATES DEPARTMENT OF AGRICULTURE |
| | | | | PROP | = PROPERTY, PROPOSED | W | = WEST |
| | | | | P.S.M. | = PROFESSIONAL SURVEYOR AND MAPPER | W/ | = WITH |
| | | | | P.T. | = POINT OF TANGENCY | WIT. | = WITNESS |
| | | | | PUB. | = PUBLISHED | W.P.I. | = WORK PROGRAM ITEM |
| | | | | R | = RADIUS OR RANGE | ' | = MINUTES, FEET |
| | | | | | | ° | = DEGREES |
| | | | | | | " | = SECONDS, INCHES |
| | | | | | | & | = AND |
| | | | | | | X | = EASTING |
| | | | | | | Y | = NORTHING |
| | | | | | | +/- | = MORE OR LESS |

## KEY MAP

**THIS MAP IS NOT A SURVEY.**

S.R. 10A (U.S 90 / MOBILE HIGHWAY) AT C.R. 99 (BEULAH ROAD) INTERSECTION

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **RIGHT OF WAY MAP** | **FLORIDA DEPARTMENT OF TRANSPORTATION** SURVEYING AND MAPPING | APPROVED BY | DATE | | | | | | | BY | DATE |
| | | | 7-11-16 | | | | | | PRELIM | JEM | 5/31/2016 |
| | | DISTRICT SURVEYOR | | | | | | | FINAL | JEM | 6/31/2016 |
| | | | | REVISION | BY | DATE | ADDED PARCEL 103 | S.D.G. | 10-10-16 | CHECKED | JND | 5/31/2016 |
| | | | | REVISION | BY | DATE | REVISION | BY | DATE | | | |

FED. PROJ. N/A — SECTION N/A

STATE ROAD No. 10A (U.S. 90 / MOBILE HWY.) — ESCAMBIA COUNTY

MAPS PREPARED BY:
NOBLES CONSULTING GROUP, INC.
2844 PABLO AVENUE
TALLAHASSEE, FLORIDA 32308
PH: 850-385-1179 F: 850-385-1404

DATA SOURCE: 4367241.ZIP, 341.GPK

SCALE: 1" = 100'

F.P. NO. 4367241

SHEET 1 OF 3

## DETAIL "A" (NOT TO SCALE)

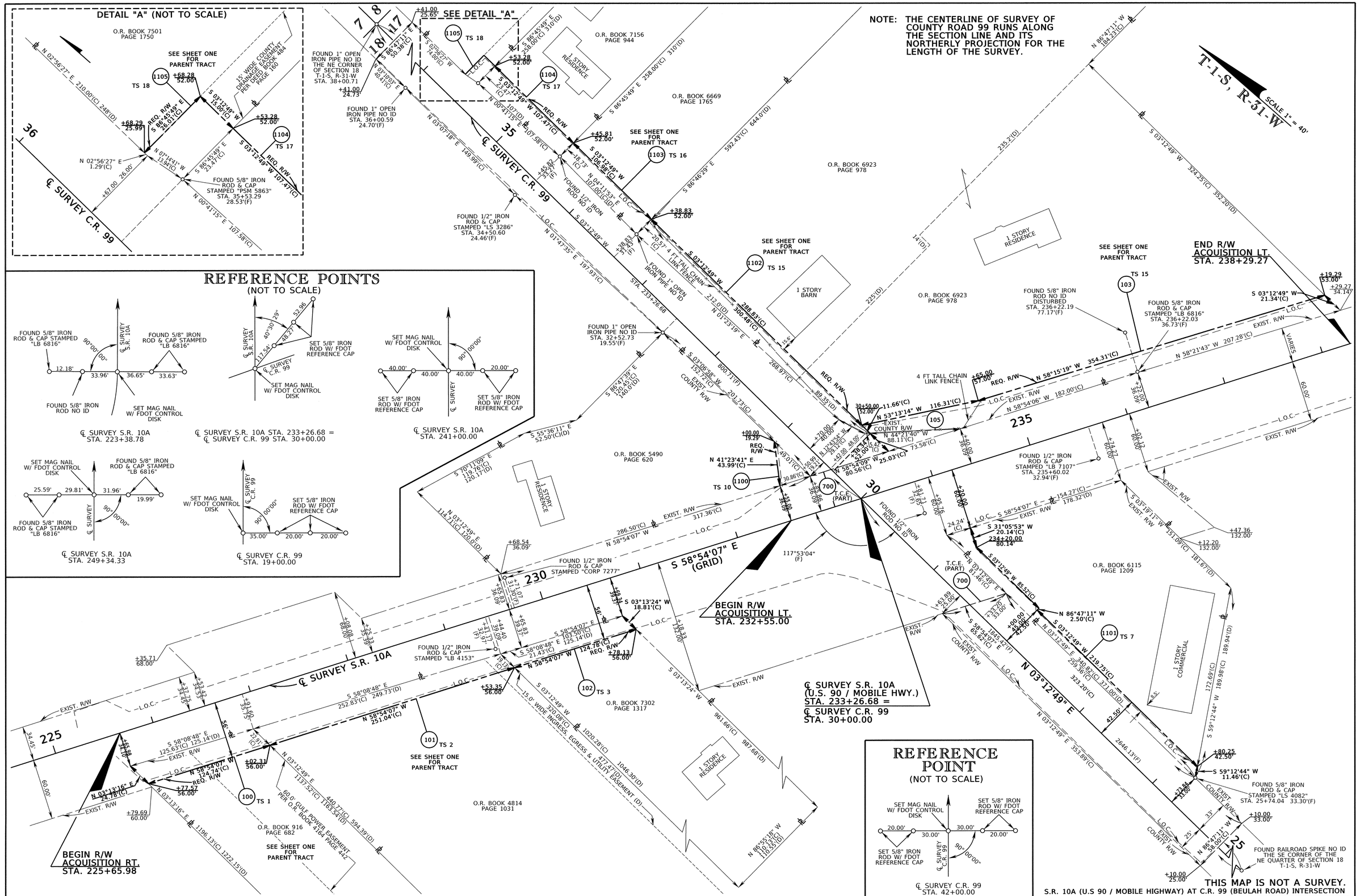



## REFERENCE POINTS
(NOT TO SCALE)




**NOTE:** THE CENTERLINE OF SURVEY OF COUNTY ROAD 99 RUNS ALONG THE SECTION LINE AND ITS NORTHERLY PROJECTION FOR THE LENGTH OF THE SURVEY.

T-1-S, R-31-W
SCALE 1" = 40'




## REFERENCE POINT
(NOT TO SCALE)




℄ SURVEY C.R. 99
STA. 42+00.00

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | BY | DATE |
| | | | | | | PRELIM | JEM | 5/31/2016 |
| | | | ADDED 103, 105 | | | FINAL | JEM | 6/31/2016 |
| | | | REVISED PARCEL 1102 | S.D.G. | 10-10-16 | CHECKED | JND | 5/31/2016 |
| REVISION | BY | DATE | REVISION | BY | DATE | | | |

APPROVED BY: DISTRICT SURVEYOR — DATE: 7-11-16

RIGHT OF WAY MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
SURVEYING AND MAPPING

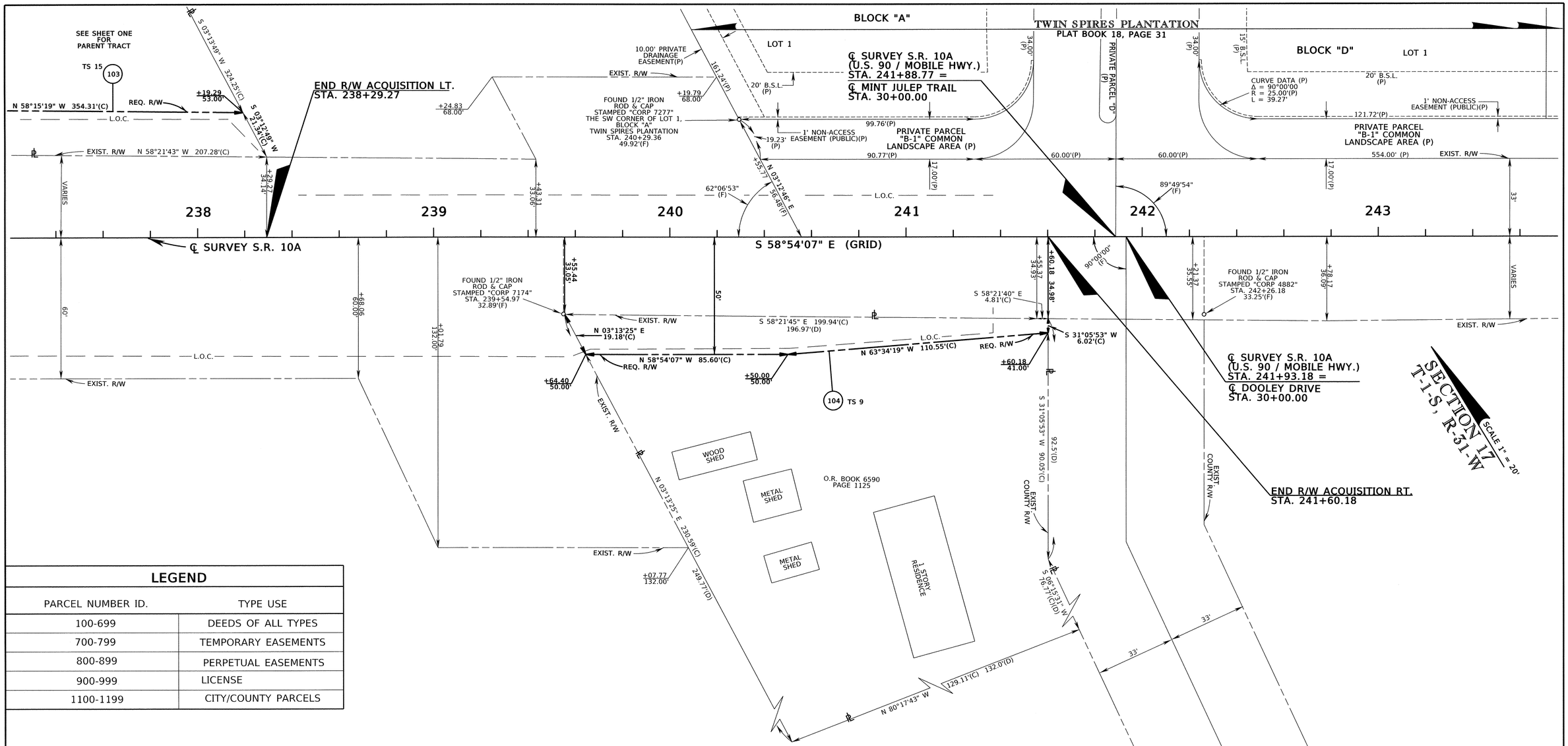
FED. PROJ. N/A — SECTION N/A

STATE ROAD No. 10A (U.S. 90 / MOBILE HWY.) — ESCAMBIA COUNTY

MAPS PREPARED BY:
NOBLES CONSULTING GROUP, INC.
2844 PABLO AVENUE
TALLAHASSEE, FLORIDA 32308
PH: 850-385-1179 F: 850-385-1404

DATA SOURCE: 4367241.ZIP, 341.GPK
SCALE: 1" = 40'

F.P. NO. 4367241 — SHEET 2 OF 3




## LEGEND

| PARCEL NUMBER ID. | TYPE USE |
|---|---|
| 100-699 | DEEDS OF ALL TYPES |
| 700-799 | TEMPORARY EASEMENTS |
| 800-899 | PERPETUAL EASEMENTS |
| 900-999 | LICENSE |
| 1100-1199 | CITY/COUNTY PARCELS |

## TABLE OF OWNERSHIPS

| PARCEL NO. | SHEET NO. | NAME | AREA TAKEN | REMAINDERS LEFT | REMAINDERS RIGHT | COMMENTS | RECORDING DATA |
|---|---|---|---|---|---|---|---|
| 100 | 1,2 | JAMES RANCE MACK, ET UX | 2629 S.F. | 0 | 2.956 AC. | | |
| 101 | 1,2 | LAURA E. SWANSON | 4664 S.F. | 0 | 1.831 AC. | | |
| 102 | 2 | SANDRA DEE LEWIS, ET AL | 2078 S.F. | 0 | 2.507 AC. | | |
| 103 | 1,2,3 | JAMES W. LAWRY, JR., ET UX | 8971 S.F. | 4.679 AC. | 0 | | |
| 104 | 3 | DON M. AUSTIN, ET UX | 2702 S.F. | 0 | 0.671 AC. | | |
| 105 | 2 | ESCAMBIA COUNTY | 814 S.F. | ——— | ——— | | |
| | | | | | | | |
| | | | | | | | |
| 700 | 2 | ESCAMBIA COUNTY | ——— | ——— | ——— | TEMPORARY CONSTRUCTION EASEMENT | |
| | | | | | | | |
| 1100 | 2 | BENJAMIN LEE LOWERY, ET UX | 668 S.F. | 0.936 AC. | 0 | | |
| 1101 | 2 | ABSOLUTE INVESTMENTS, LLC | 3563 S.F. | 0 | 0.808 AC. | | |
| 1102 | 1,2 | JAMES W. LAWRY, JR., ET UX | 4609 S.F. | SEE PARCEL 103 | | | |
| 1103 | 1,2 | JOHN SHAW III, ET UX | 2102 S.F. | 2.407 AC. | 0 | | |
| 1104 | 1,2 | JOYCE IRENE BOYETTE SHAW, ET AL | 2268 S.F. | 0.637 AC. | 0 | | |
| 1105 | 1,2 | TY SOUTHERLAND, ET UX | 373 S.F. | 1.616 AC. | 0 | | |

| REVISIONS | BY | DATE |
|---|---|---|
| | | |

THIS MAP IS NOT A SURVEY.

S.R. 10A (U.S 90 / MOBILE HIGHWAY) AT C.R. 99 (BEULAH ROAD) INTERSECTION

RIGHT OF WAY MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
SURVEYING AND MAPPING

APPROVED BY DISTRICT SURVEYOR — DATE 7-11-16

| REVISION | BY | DATE |
|---|---|---|
| ADD 103 & 105, REV 1102 | S.D.G. | 10-10-16 |
| NAME CHANGE PARCEL 101 | J.L.B. | 8-17-16 |

| | BY | DATE |
|---|---|---|
| PRELIM | JEM | 5/31/2016 |
| FINAL | JEM | 6/31/2016 |
| CHECKED | JND | 5/31/2016 |

FED. PROJ. N/A — SECTION N/A

STATE ROAD No. 10A (U.S. 90 / MOBILE HWY.) — ESCAMBIA COUNTY

MAPS PREPARED BY:
NOBLES CONSULTING GROUP, INC.
2844 PABLO AVENUE
TALLAHASSEE, FLORIDA 32308
PH: 850-385-1179 F: 850-385-1404

DATA SOURCE: 4367241.ZIP, 341.GPK

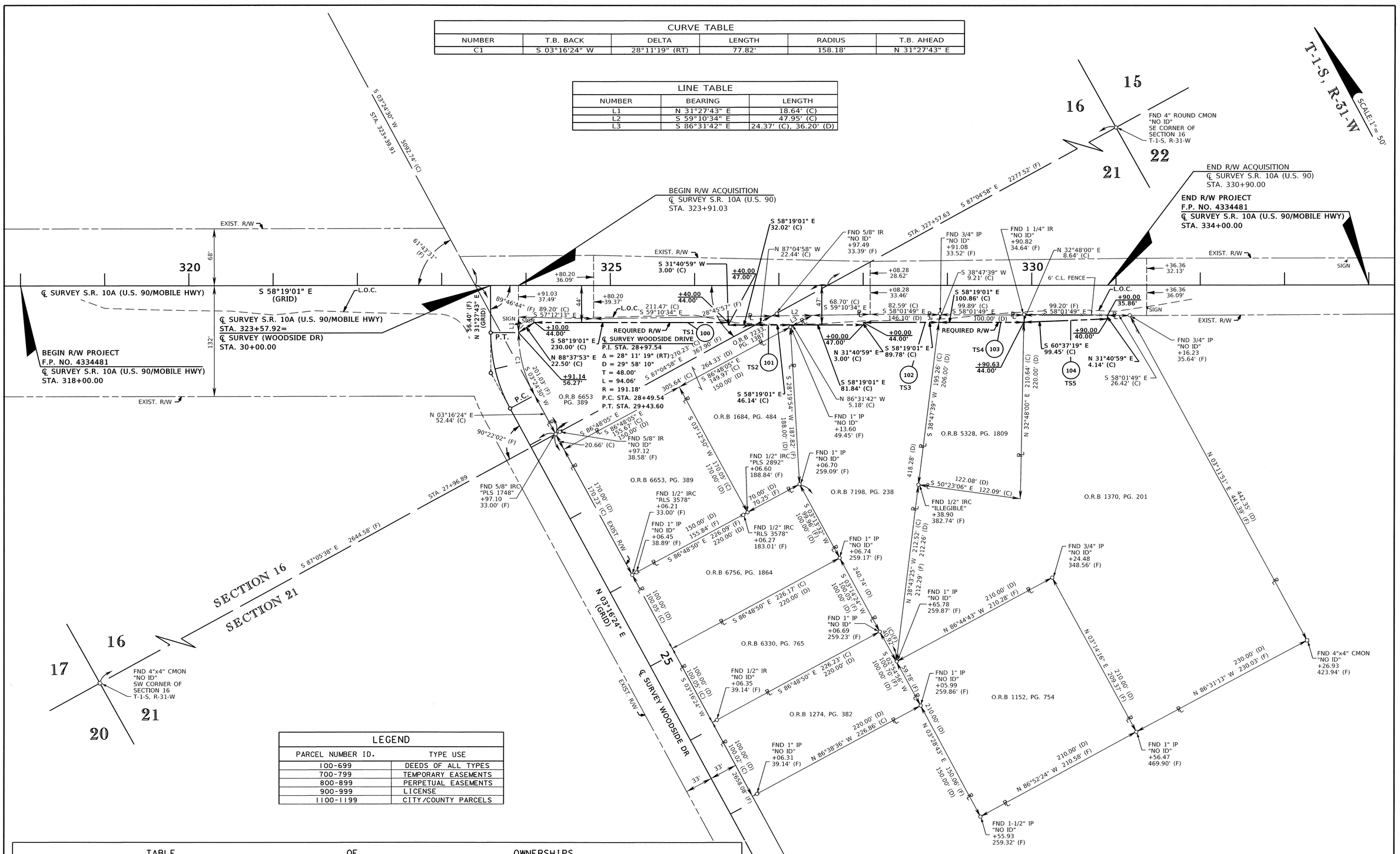
SCALE: 1" = 20'

F.P. NO. 4367241

SHEET 3 OF 3

| CURVE TABLE | | | | | |
|---|---|---|---|---|---|
| NUMBER | T.B. BACK | DELTA | LENGTH | RADIUS | T.B. AHEAD |
| C1 | S 03°16'24" W | 28°11'19" (RT) | 77.82' | 158.18' | N 31°27'43" E |

| LINE TABLE | | |
|---|---|---|
| NUMBER | BEARING | LENGTH |
| L1 | N 31°27'43" E | 18.64' (C) |
| L2 | S 59°10'34" E | 47.95' (C) |
| L3 | S 86°31'42" E | 24.37' (C), 36.20' (D) |




| LEGEND | |
|---|---|
| PARCEL NUMBER ID. | TYPE USE |
| 100-699 | DEEDS OF ALL TYPES |
| 700-799 | TEMPORARY EASEMENTS |
| 800-899 | PERPETUAL EASEMENTS |
| 900-999 | LICENSE |
| 1100-1199 | CITY/COUNTY PARCELS |

## TABLE OF OWNERSHIPS

| PARCEL NO. | SHEET NO. | NAME | AREA TAKEN | REMAINDERS LEFT | REMAINDERS RIGHT | COMMENTS | RECORDING DATA |
|---|---|---|---|---|---|---|---|
| 100 | 2 | BYRON W. BROWN ET UX | 1,969 S.F. | 0 | 19,836 S.F. | | |
| 101 | 2 | ROBERT M. LAMBERT ET UX | 518 S.F. | 0 | 6,207 S.F. | | |
| 102 | 2 | SCOTT E. BROWN ET UX | 1,692 S.F. | 0 | 1.041 AC. | | |
| 103 | 2 | DEBORAH A. SMEGELSKI | 892 S.F. | 0 | 0.517 AC. | | |
| 104 | 2 | DALLAS W. DIAMOND ET UX | 634 S.F. | 0 | 2.795 AC. | | |

REVISIONS

| REVISION | BY | DATE |
|---|---|---|
| | | |

THIS MAP IS NOT A SURVEY

SEE SHEET 1 FOR LEGEND AND GENERAL NOTES

S.R. 10A (U.S. 90/MOBILE HWY) AT WOODSIDE DRIVE INTERSECTION

RIGHT OF WAY MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
SURVEYING AND MAPPING

APPROVED BY _____ DATE 7-13-15
DISTRICT SURVEYOR

| REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|
| | | | | | |

| | BY | DATE |
|---|---|---|
| PRELIM | JMP | 3/13/2015 |
| FINAL | JMP | 7/06/2015 |
| CHECKED | JEM | 7/06/2015 |

F.A.P. NO. 4261-039-P SECTION N/A

STATE ROAD NO. 10A (U.S. 90/MOBILE HWY) ESCAMBIA COUNTY

MAPS PREPARED BY:
MSA CONSULTING GROUP, INC.
2900-A NORTHMONT DRIVE
TALLAHASSEE FLORIDA 32303
PHONE (850) 309-7510

DATA SOURCE: 4334481.ZIP

SCALE: 1" = 50'

F.P. NO. 4334481 SHEET 2 OF 2

## GENERAL NOTES

1. BEARINGS ARE BASED ON THE GRID BEARING BETWEEN FDOT PROVIDED CONTROL STATIONS "ESC 4073" AND "ESC 4074", WHICH WERE ESTABLISHED BY FDOT IN THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 83/2011. ALL FLORIDA STATE PLANE COORDINATES SHOWN HEREON ARE ENGLISH AND BASED ON SAME.
2. PROPERTY BOUNDARIES DETERMINED FROM FIELD SURVEY, PLATS OF RECORD AND RECORD TITLE.
3. UNDERGROUND FOUNDATION ENCROACHMENTS, IF ANY, NOT LOCATED.
4. UNLESS OTHERWISE SHOWN, ALL DATA NOTED AS (F) HAS BEEN CALCULATED FROM A CLOSED FIELD TRAVERSE OR DIRECT FIELD MEASUREMENT.
5. ANGLES ARE 90°00'00" UNLESS SHOWN OTHERWISE.
6. ATTENTION IS DIRECTED TO THE FACT THAT THESE MAPS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN SCALING DATA.
7. ONLY FIXED IMPROVEMENTS PERTINENT TO THE PARCELS TO BE ACQUIRED ARE SHOWN. FIXED INTERIOR IMPROVEMENTS NOT LOCATED.
8. THIS RIGHT OF WAY MAP WAS PREPARED FOR THE PURPOSE OF PREPARING LEGAL LAND DESCRIPTIONS, ACQUISITION DOCUMENTS, MONUMENTATION, PROPERTY MANAGEMENT AND AS AN AID IN THE APPRAISAL OF THE RIGHT OF WAY REQUIRED FOR TRANSPORTATION FACILITIES. THIS MAP IS NOT A SURVEY.
9. THIS RIGHT OF WAY MAP IS SUPPORTED BY A RIGHT OF WAY CONTROL SURVEY CERTIFIED ON OCTOBER 6, 2014, PREPARED UNDER THE RESPONSIBLE CHARGE OF JOHN E. MATTHEWS, FLORIDA PROFESSIONAL SURVEYOR AND MAPPER NO. 4494. CERTIFIED COPIES OF THIS SURVEY ARE FILED ON RECORD IN THE DISTRICT 3 OFFICE IN CHIPLEY.
10. THIS RIGHT OF WAY MAP WAS PREPARED BY:
HSA CONSULTING GROUP, INC.
2900-A NORTHMONT DRIVE
TALLAHASSEE, FLORIDA 32303

| INDEX | |
|---|---|
| SHEET NO. | DESCRIPTION |
| 1 | KEY SHEET / REFERENCE POINTS |
| 2 | DETAIL SHEET / TABLE OF OWNERSHIP |

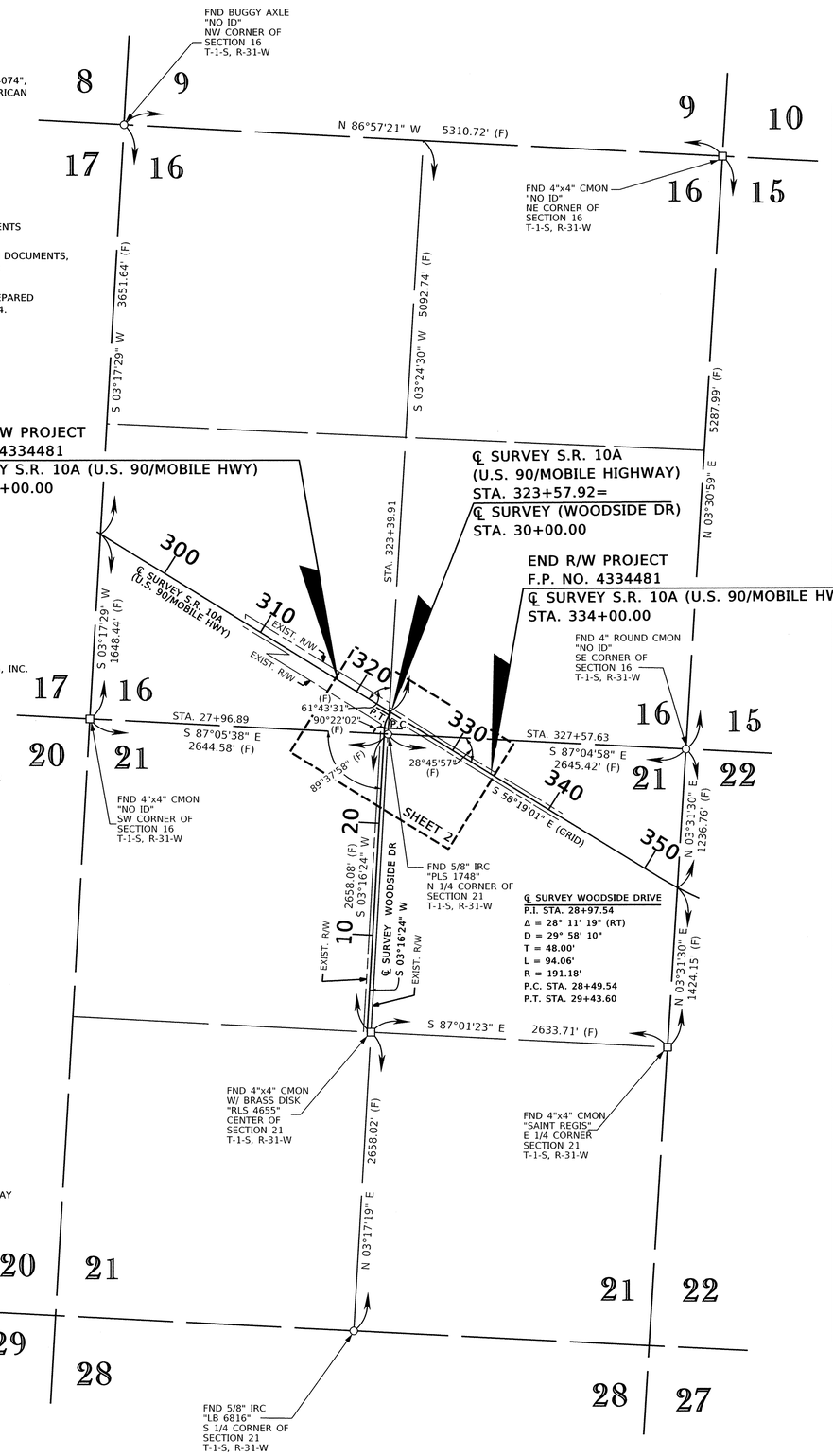
T-1-S, R-31-W

SCALE: 1"=600'

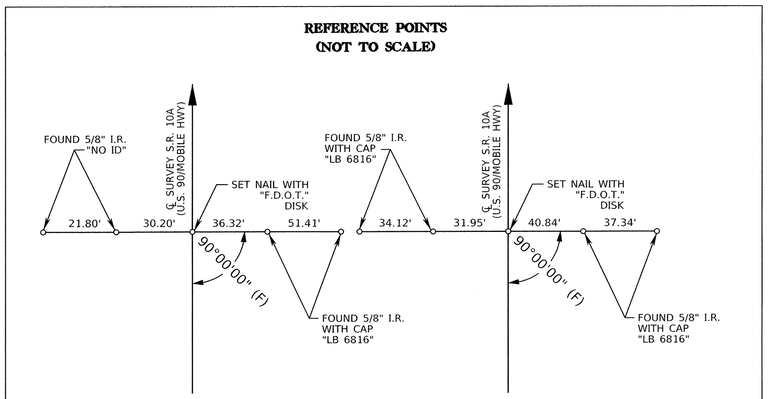
## LEGEND

| | | |
|---|---|---|
| & | = | AND |
| AC. | = | ACRE |
| AHD. | = | AHEAD |
| AVE. | = | AVENUE |
| BK. | = | BACK |
| ℄ | = | BASELINE |
| B.O.S. | = | BEGINNING OF SURVEY |
| BLVD. | = | BOULEVARD |
| C1 | = | CURVE TABLE NUMBER |
| CB | = | CHORD BEARING |
| C.C.R. | = | CERTIFIED CORNER RECORD |
| C.L. | = | CHAINLINK |
| COM. | = | COMMERCIAL |
| CONC. | = | CONCRETE |
| COR. | = | CORNER |
| CORP. | = | CORPORATION |
| ℄ | = | CENTERLINE |
| (C) | = | CALCULATED |
| C.M./CMON | = | CONCRETE MONUMENT |
| C.R. | = | COUNTY ROAD |
| D;° | = | DEGREE |
| (D) | = | DEED |
| D.B. | = | DEED BOOK |
| D.E. | = | DRAINAGE EASEMENT |
| DR | = | DRIVE |
| E.O.S. | = | END OF SURVEY |
| EXIST. | = | EXISTING |
| E | = | EAST |
| ESMT | = | EASEMENT |
| E.D.E. | = | EXISTING DRAINAGE EASEMENT |
| Δ | = | CURVE DELTA ANGLE |
| FB | = | FIELD BOOK |
| FEI | = | FABRE ENGINEERING, INC. |
| FND. | = | FOUND |
| (F) | = | FIELD |
| F.P. | = | FINANCIAL PROJECT |
| F.A.P. | = | FEDERAL AID PROJECT |
| FDOT/F.D.O.T. | = | FLORIDA DEPARTMENT OF TRANSPORTATION |
| FED | = | FEDERAL |
| G.L.O. | = | GENERAL LAND OFFICE |
| HWY. | = | HIGHWAY |
| I.P. | = | IRON PIPE |
| IRC | = | IRON ROD AND CAP |
| I.R. | = | IRON ROD |
| ID. | = | IDENTIFICATION |
| L | = | LENGTH OF CURVE |
| L1 | = | LINE TABLE NUMBER |
| LA | = | LICENSE AGREEMENT |
| LB/ L.B. | = | LICENSED BUSINESS |
| LT. | = | LEFT |
| L/A | = | LIMITED ACCESS |
| L.O.C. | = | LIMITS OF CONSTRUCTION |
| LS/ L.S. | = | LICENSED SURVEYOR |
| MAINT. | = | MAINTAINED |
| MAG | = | MAGNETIC |
| MISC. | = | MISCELLANEOUS |
| N | = | NORTH |
| #/NO. | = | NUMBER |
| NAD | = | NORTH AMERICAN DATUM |
| N/A | = | NOT APPLICABLE |

| | | |
|---|---|---|
| N&D | = | NAIL & DISK |
| NE | = | NORTHEAST |
| NW | = | NORTHWEST |
| NWFLS | = | NORTHWEST FLORIDA LAND SURVEYING, INC. |
| N.T.S. | = | NOT TO SCALE |
| N.V.A.L. | = | NON VEHICULAR ACCESS LINE |
| OR | = | OFFICIAL RECORD |
| O.R.B. | = | OFFICIAL RECORD BOOK |
| PK | = | PARKER KALON |
| PRM | = | PERMANENT REFERENCE MONUMENT |
| (P) | = | PLAT |
| PSM | = | PROFESSIONAL SURVEYOR AND MAPPER |
| ℄ | = | PROPERTY LINE |
| P.B. | = | PLAT BOOK |
| P.C. | = | POINT OF CURVATURE |
| P.C.C. | = | POINT OF COMPOUND CURVE |
| PG. | = | PAGE |
| P.I. | = | POINT OF INTERSECTION |
| PIP | = | PINCHED IRON PIPE |
| PLS/P.L.S. | = | PROFESSIONAL LAND SURVEYOR |
| P.O.C. | = | POINT ON CURVE |
| P.O.T. | = | POINT ON TANGENT |
| P.R.C. | = | POINT OF REVERSE CURVE |
| PRELIM. | = | PRELIMINARY |
| PRM | = | PERMANANT REFERENCE MONUMENT |
| PROJ | = | PROJECT |
| P.T. | = | POINT OF TANGENCY |
| R | = | RADIUS/RANGE |
| RD. | = | ROAD |
| REF. | = | REFERENCE |
| RES. | = | RESIDENCE |
| RLS | = | REGISTERED LAND SURVEYOR |
| RPS | = | REGISTERED PROFESSIONAL SURVEYOR |
| RR | = | RAILROAD |
| RT. | = | RIGHT |
| R/W | = | RIGHT OF WAY |
| SEC. | = | SECTION |
| S | = | SOUTH |
| SE | = | SOUTHEAST |
| SW | = | SOUTHWEST |
| S.F. | = | SQUARE FEET |
| S.R. | = | STATE ROAD |
| SRDRW | = | STATE ROAD DEPARTMENT RIGHT OF WAY |
| ST. | = | STREET |
| STA. | = | STATION |
| T | = | TANGENT/TOWNSHIP |
| TAS | = | TIMOTHY ALLEN SIMMONS |
| T.C. | = | TANGENT TO CURVE |
| T.S. | = | TITLE SEARCH |
| TYP. | = | TYPICAL |
| T.B. | = | TANGENT BEARING |
| U.S. | = | UNITED STATES |
| W | = | WEST |
| Y | = | NORTHING |
| X | = | EASTING |
| ' | = | FEET/MINUTES |
| " | = | INCHES/SECONDS |
| +/- | = | MORE OR LESS |
| w/ | = | WITH |

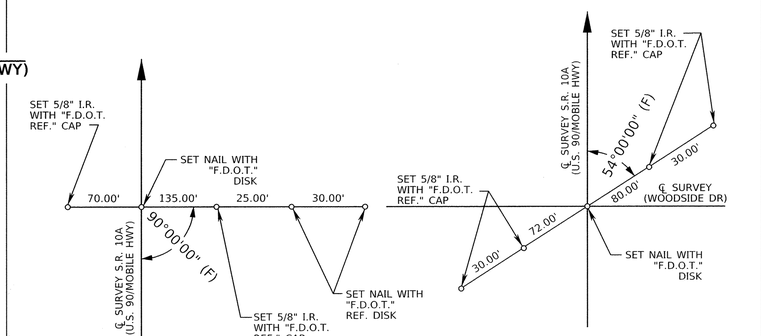



### REFERENCE POINTS (NOT TO SCALE)



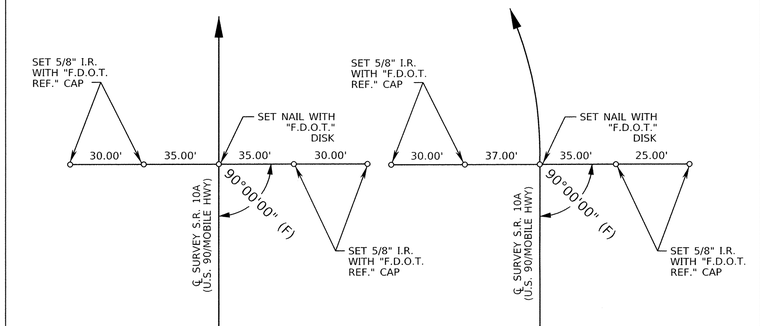

STA. 292+95.91
℄ SURVEY S.R. 10A
(U.S. 90/MOBILE HWY)

STA. 305+11.75
℄ SURVEY S.R. 10A
(U.S. 90/MOBILE HWY)




STA. 315+00.00
℄ SURVEY S.R. 10A
(U.S. 90/MOBILE HWY)

STA. 323+57.92
℄ SURVEY S.R. 10A
(U.S. 90/MOBILE HWY)




STA. 333+00.00
℄ SURVEY S.R. 10A
(U.S. 90/MOBILE HWY)

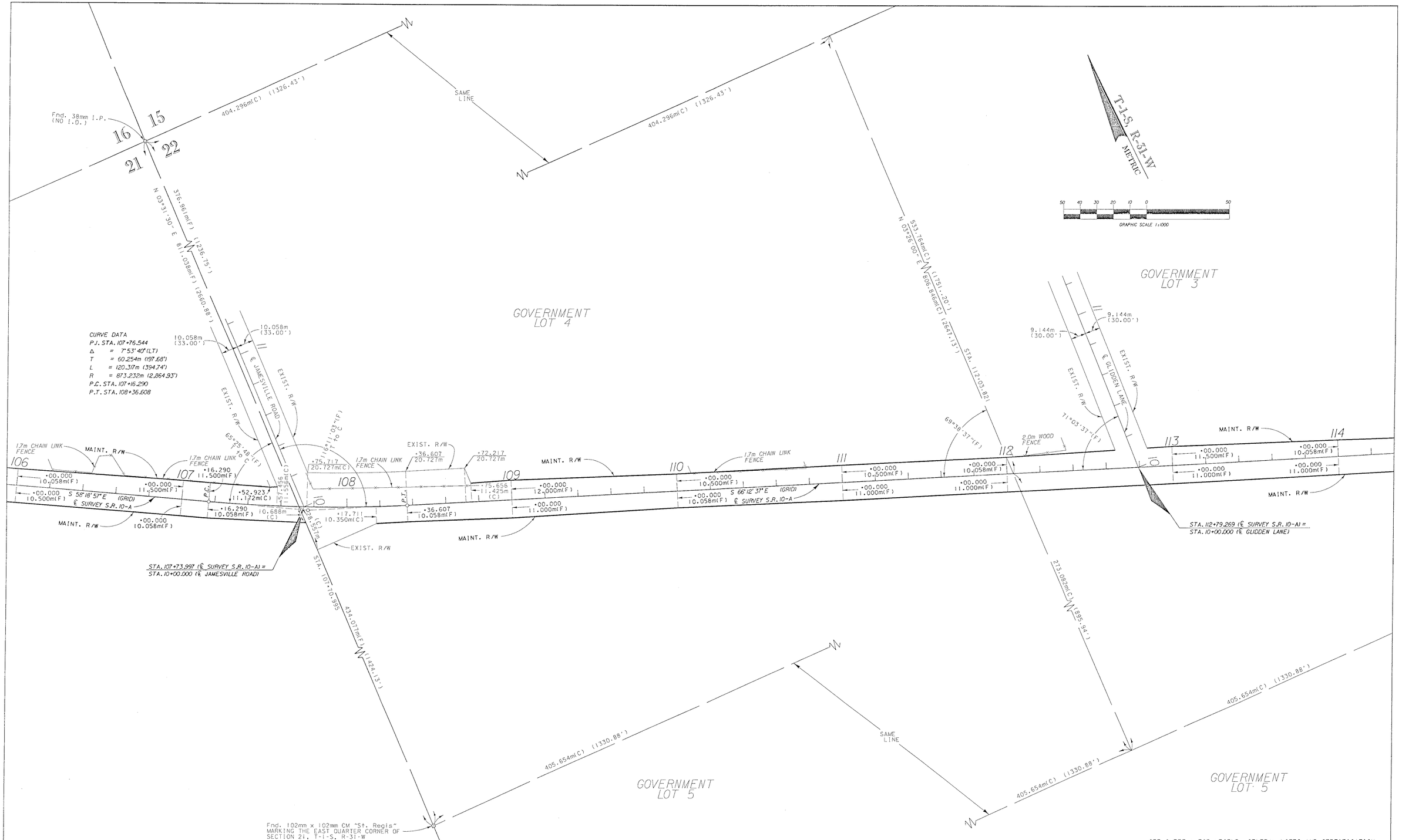
STA. 351+58.30
℄ SURVEY S.R. 10A
(U.S. 90/MOBILE HWY)

# KEY SHEET

**THIS MAP IS NOT A SURVEY**

**S.R. 10A (U.S. 90/MOBILE HWY) AT WOODSIDE DRIVE INTERSECTION**

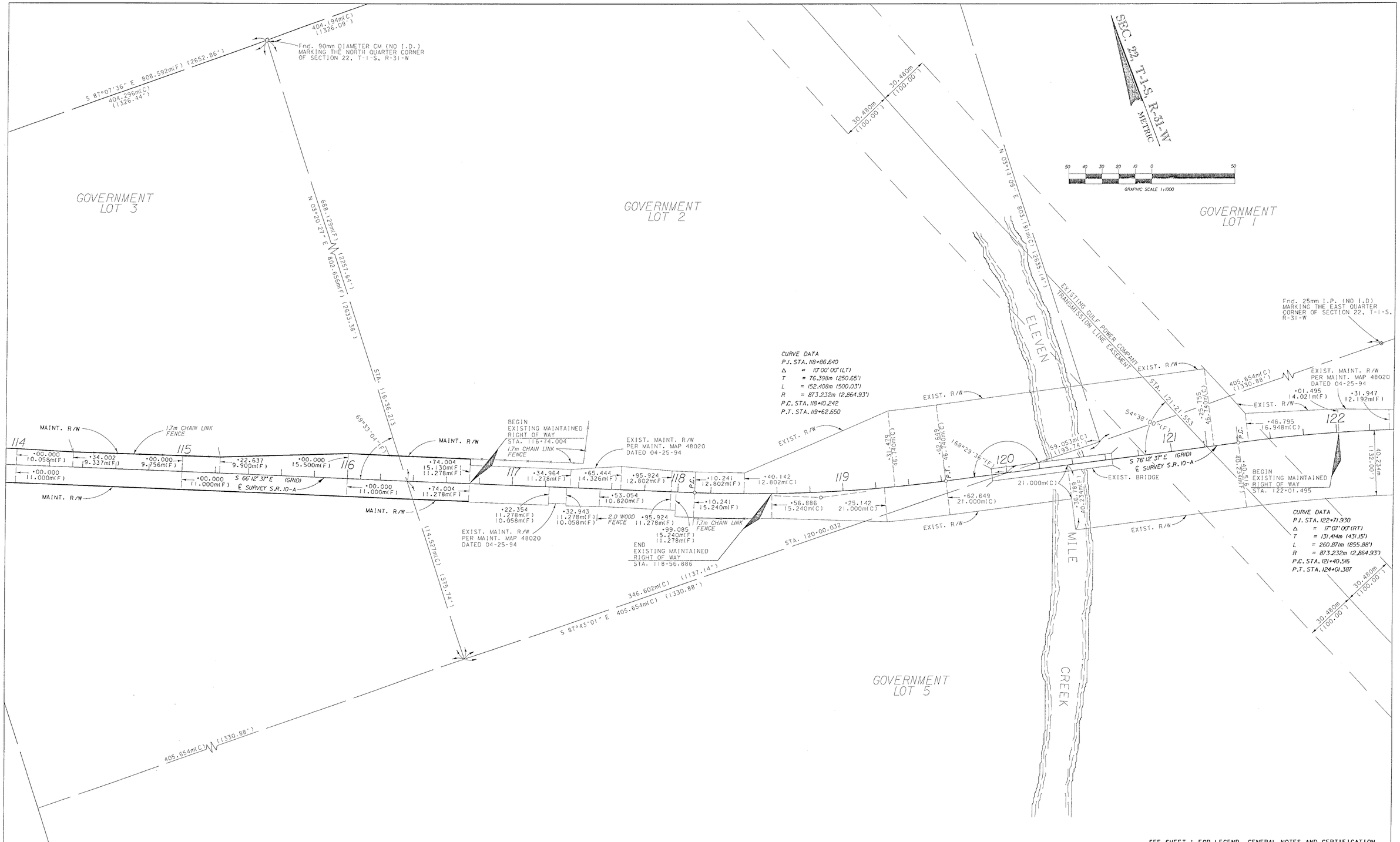
| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RIGHT OF WAY MAP | FLORIDA DEPARTMENT OF TRANSPORTATION SURVEYING AND MAPPING | APPROVED BY DISTRICT SURVEYOR | DATE 7-13-15 | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A.P. NO. 4261-039-P | SECTION N/A | MAPS PREPARED BY: HSA CONSULTING GROUP, INC. 2900-A NORTHMONT DRIVE TALLAHASSEE, FLORIDA 32303 PHONE (850) 309-7510 | DATA SOURCE: 4334881.ZIP | |
| | | | | | | | | | | PRELIM | JMP | 3/13/2015 | | | | | |
| | | | | | | | | | | FINAL | JMP | 7/06/2015 | | | | | |
| | | | | | | | | | | CHECKED | JEM | 7/06/2015 | STATE ROAD NO. 10A (U.S. 90/MOBILE HWY) | ESCAMBIA COUNTY | F.P. NO. 4334481 | SCALE: 1" = 600' | SHEET 1 OF 2 |




SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. G. Wood DATE 10-25-01<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | PRELIM | E.E.W. | 08-23-01 | F.A.P. NO. N/A | MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303 | FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038 20040056, 20421043, 20421051, 20421059 20421060, 20421069 | |
| | | | | | | | | | FINAL | E.E.W. | 08-28-01 | STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY | W.P.I. NO. 3112056 | SCALE: 1:1000 | |
| | | | | | | | | | CHECKED | W.L.E. | 08-27-01 | | F.P. NO. 2186801 | SHEET 14 OF 22 | |

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE




SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. H. Hood DATE 10-25-01<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A.P. NO. N/A | MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303 | FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038 20040056, 20421043, 20421051, 20421059 20421060, 20421069 | |
| | | | | | | | | | PRELIM | E.E.W. | 08-23-01 | | | | |
| | | | | | | | | | FINAL | E.E.W. | 08-28-01 | STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY | W.P.I. NO. 3112056 | SCALE: 1:1000 | |
| | | | | | | | | | CHECKED | W.L.E. | 08-27-01 | | F.P. NO. 2186801 | SHEET 15 OF 22 | |

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

T-1-S, R-31-W

METRIC

GRAPHIC SCALE 1:1000

GOVERNMENT LOT 4

GOVERNMENT LOT 1

GOVERNMENT LOT 5

THOMAS ENGLISH GRANT

Fnd. 25mm I.P. (NO I.D.) MARKING THE EAST QUARTER CORNER OF SECTION 22, T-1-S, R-31-W

TANGEN STREET (P) 66' R/W(P)

PINE AVENUE (P) 60' R/W(P)

MAGNOLIA AVENUE (P) 66' R/W(P)

LOCKHART STREET (F)

YOSHIDA STREET (F)

INNISWOLD DRIVE (P) 50' R/W(P)

PLANK DRIVE (P) 50' R/W(P)

ANNANDALE DRIVE (P)

HERITAGE WOODS
PLATBOOK 16, PAGE 12

FIRST ADDITION TO TANGEN HEIGHTS
PLATBOOK 3, PAGE 15

TANGEN HEIGHTS
PLATBOOK 3, PAGE 1

BLOCK 1

BLOCK 2

BLOCK 3

U.S. HIGHWAY NO. 90 (P)

S 59°05'37" E (GRID)
℄ SURVEY S.R. 10-A

EXIST. R/W

EXIST. MAINT. R/W PER MAINT. MAP 48020 DATED 04-25-94

MAINT. R/W

1.7m CHAIN LINK FENCE

2.0m WOOD FENCE w/ BRICK COLUMNS

BEGIN EXISTING MAINTAINED RIGHT OF WAY STA. 122+01.495

END EXISTING MAINTAINED RIGHT OF WAY STA. 124+77.390

SEE DETAIL "A"

SEE DETAIL "B"

CURVE DATA
P.I. STA. 122+71.930
Δ = 17°01'00" (RT)
T = 131.414m (431.15')
L = 260.871m (855.88')
R = 873.232m (2,864.93')
P.C. STA. 121+40.516
P.T. STA. 124+01.387

DETAIL "A" N.T.S.

DETAIL "B" N.T.S.

SET 16mm I.R.C. LB 6816

Fnd. 102mm x 102mm CONC. MON. (NO I.D.)

Fnd. 102mm x 102mm CM (NO I.D.)

Fnd. 25mm I.P. (NO I.D.)

SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

| | | | |
|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAPPING | APPROVED BY R. H. Wood DISTRICT SURVEYOR ADMINISTRATOR | DATE 10-25-01 |

| REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|
| | | | | | |

| | BY | DATE |
|---|---|---|
| PRELIM | E.E.W. | 08-23-01 |
| FINAL | E.E.W. | 08-28-01 |
| CHECKED | W.L.E. | 08-27-01 |

F.A.P. NO. N/A

STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY

MAPS PREPARED BY: GENESIS GROUP, 2507 CALLAWAY ROAD, SUITE 100, TALLAHASSEE, FL. 32303

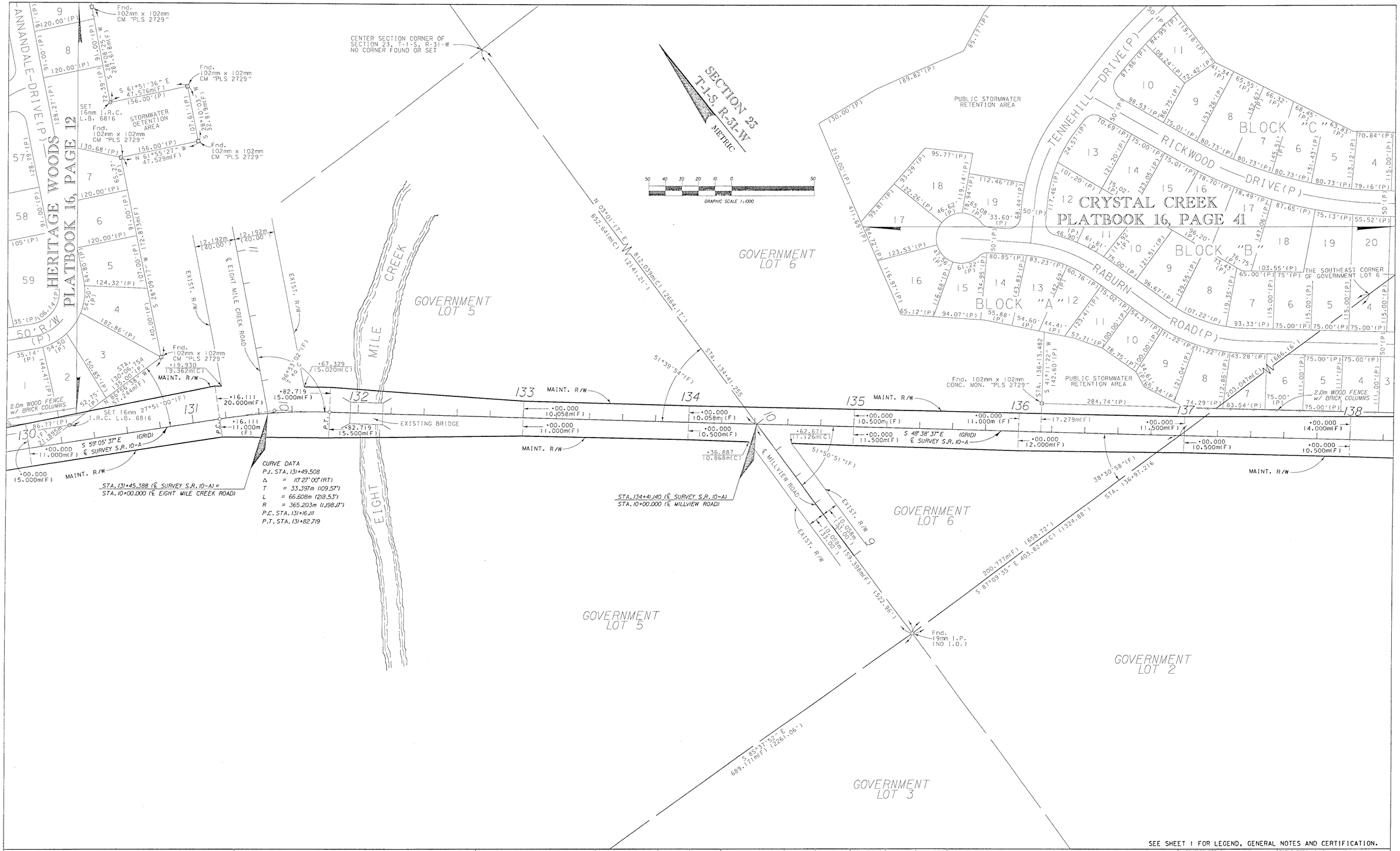
FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038, 20040056, 20421043, 20421051, 20421059, 20421060, 20421069

W.P.I. NO. 3112056

SCALE: 1:1000

F.P. NO. 2186801

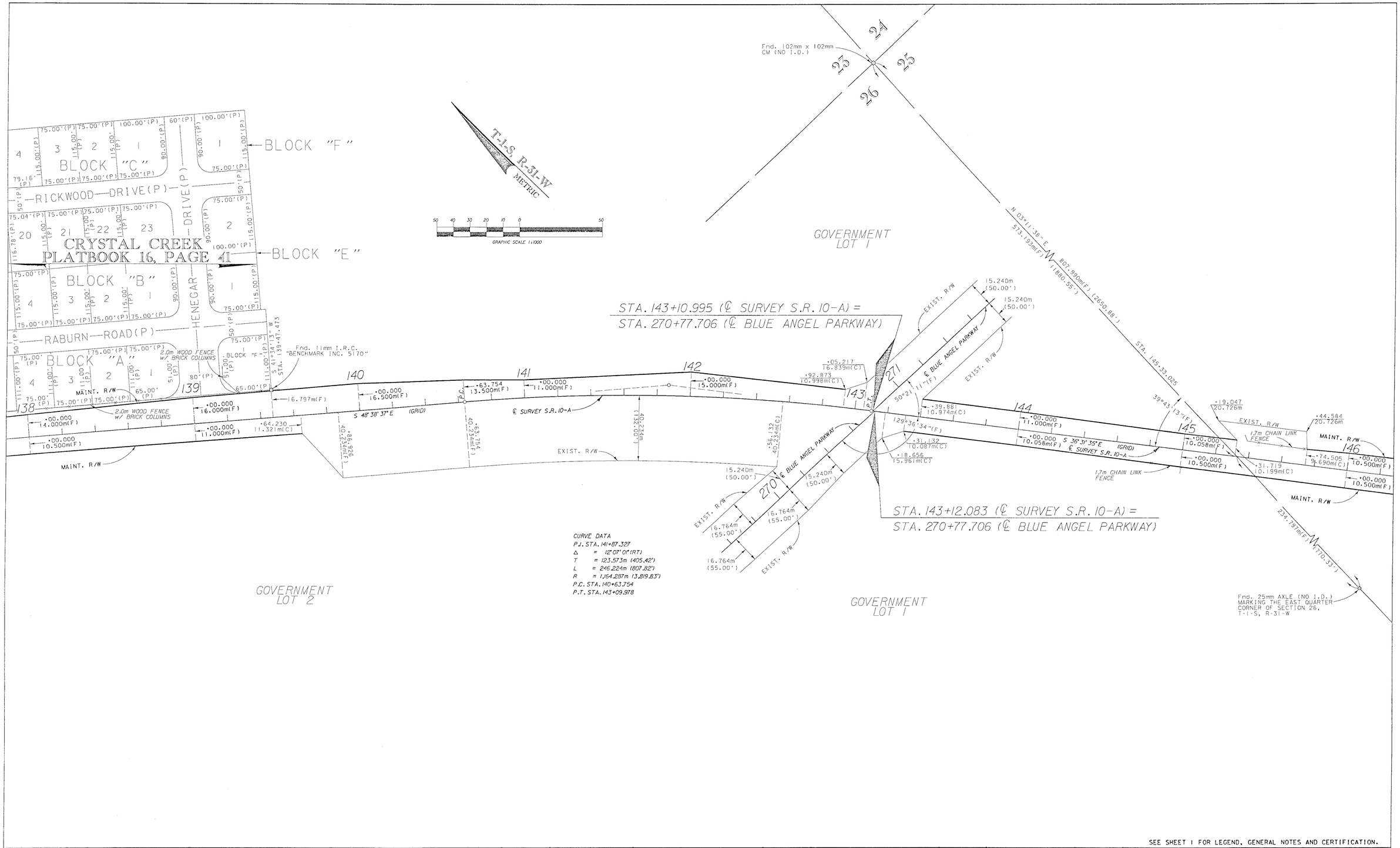
SHEET 16 OF 22




SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. H. Hood DATE 10-25-01<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | PRELIM | E.E.W. | 08-23-01 | F.A.P. NO. N/A | MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303 | FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038 20040056, 20421043, 20421051, 20421059 20421060, 20421069 |
| | | | | | | | | | FINAL | E.E.W. | 08-28-01 | STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY | W.P.I. NO. 3112056 | SCALE: 1:1000 |
| | | | | | | | | | CHECKED | W.L.E. | 08-27-01 | | F.P. NO. 2186801 | SHEET 17 OF 22 |

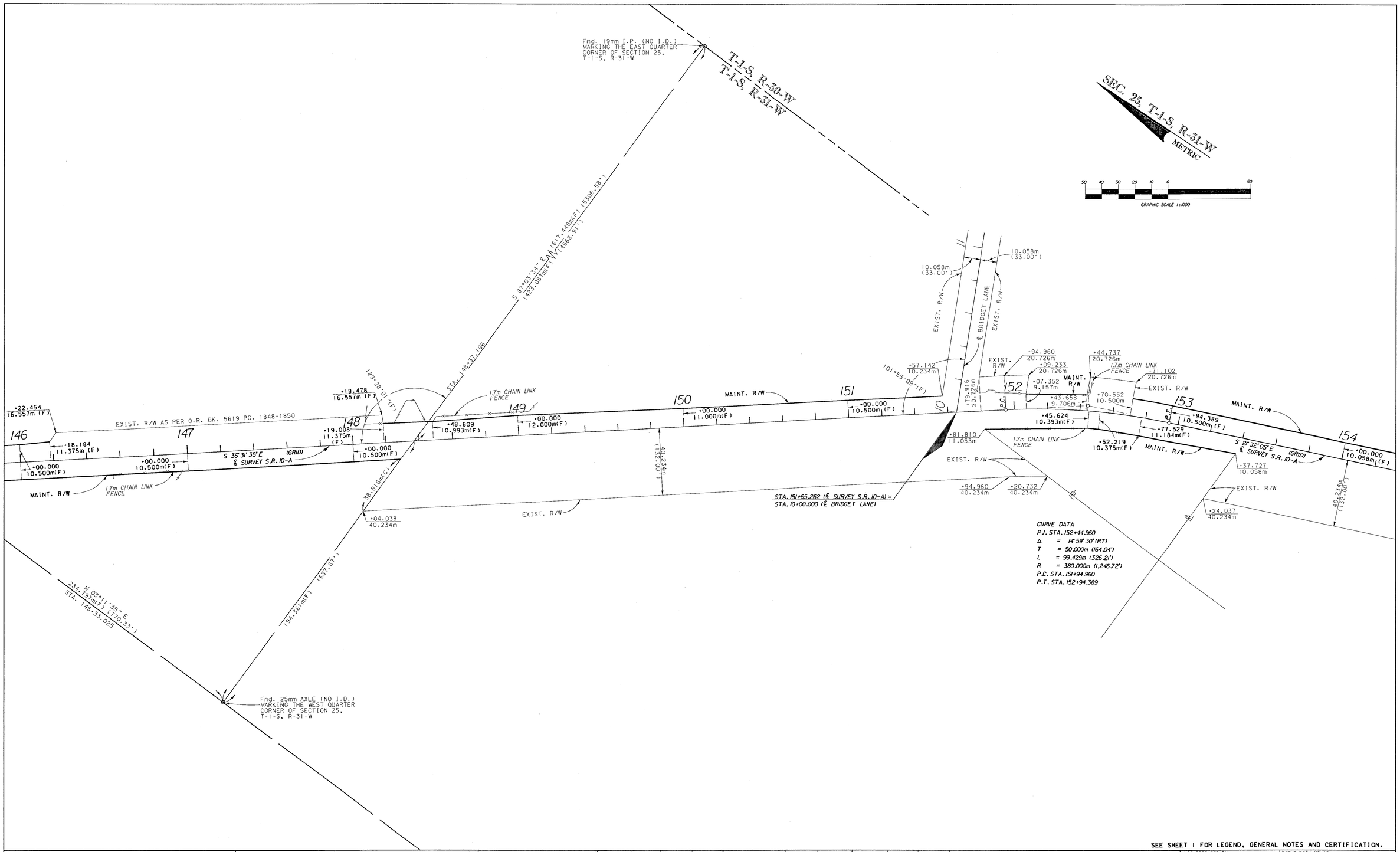
STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE




SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. L. Hood DATE 10-25-01<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A.P. NO. N/A | MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303 | FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038 20040056, 20421043, 20421051, 20421059 20421060, 20421069 |
| | | | | | | | | | PRELIM | E.E.W. | 08-23-01 | | | |
| | | | | | | | | | FINAL | E.E.W. | 08-28-01 | STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY | W.P.I. NO. 3112056 | SCALE: 1:1000 |
| | | | | | | | | | CHECKED | W.L.E. | 08-27-01 | | F.P. NO. 2186801 | SHEET 18 OF 22 |

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE




SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

# MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY _____ DATE 10-25-01
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE |
|---|---|---|
| | | |

| REV. EXIST. R/W | R.G.M. | 11-21-05 |
|---|---|---|
| REVISION | BY | DATE |

| | BY | DATE |
|---|---|---|
| PRELIM | E.E.W. | 08-23-01 |
| FINAL | E.E.W. | 08-28-01 |
| CHECKED | W.L.E. | 08-27-01 |

F.A.P. NO. N/A

STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY

MAPS PREPARED BY:
GENESIS GROUP
2507 CALLAWAY ROAD, SUITE 100
TALLAHASSEE, FL. 32303

W.P.I. NO. 3112056

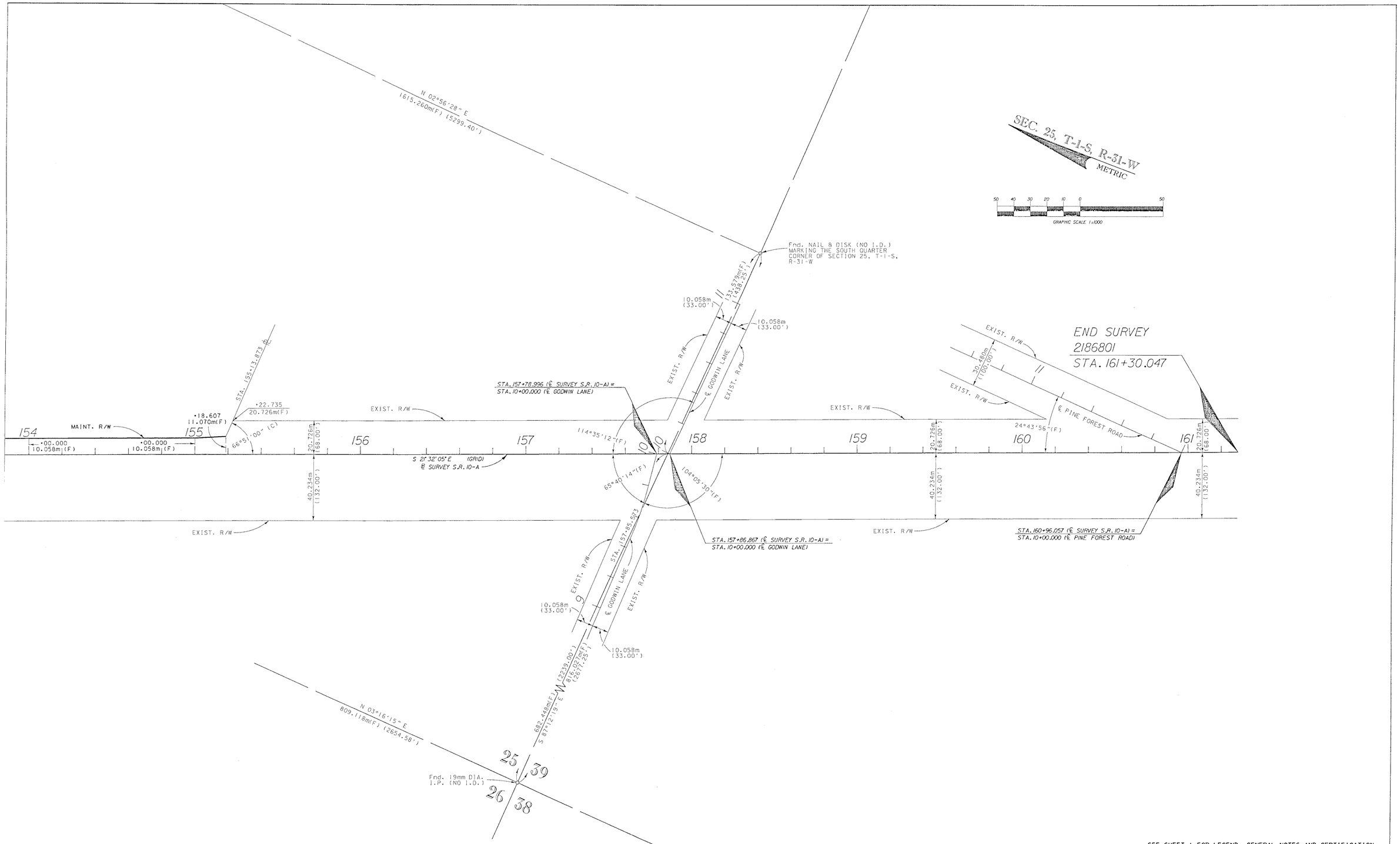
F.P. NO. 2186801

FIELD BOOK NO.'S
20040019, 20040020, 20040022, 20040038
20040056, 20421043, 20421051, 20421059
20421080, 20421063

SCALE: 1:1000

SHEET 19 OF 22

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

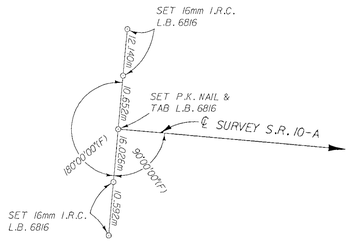



SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

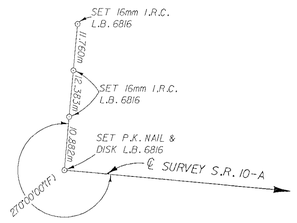
| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R G Hood DATE 10-25-01<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A.P. NO. N/A | MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303 | FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038 20040056, 20421043, 20421051, 20421059 20421060, 20421069 |
| | | | | | | | | | PRELIM | E.E.W. | 08-23-01 | | | |
| | | | | | | | | | FINAL | E.E.W. | 08-28-01 | STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY | W.P.I. NO. 3112056 | SCALE: 1:1000 |
| | | | | | | | | | CHECKED | W.L.E. | 08-27-01 | | F.P. NO. 2186801 | SHEET 20 OF 22 |

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

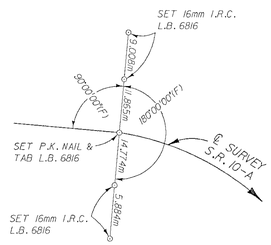
# REFERENCE POINTS



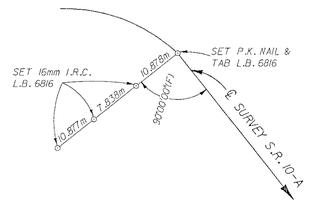

BEGIN SURVEY
STATE ROAD 10-A
STA. 41+14.808



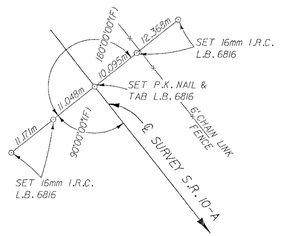

STATE ROAD 10-A
STA. 45+00.000



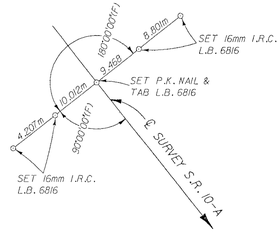

STATE ROAD 10-A
P.C. STA. 46+04.040



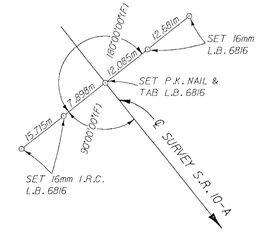

STATE ROAD 10-A
P.T. STA. 48+86.750




STATE ROAD 10-A
STA. 53+00.000

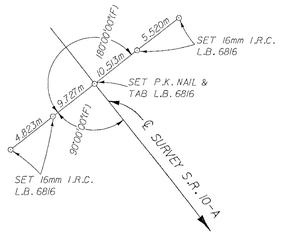



STATE ROAD 10-A
STA. 57+00.000

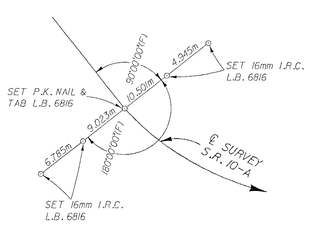



STATE ROAD 10-A
STA. 61+00.000

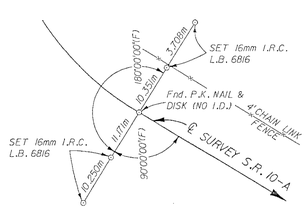
NORTH
N.T.S.



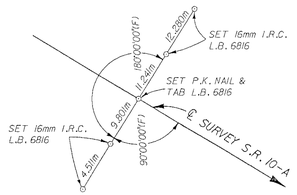

STATE ROAD 10-A
STA. 65+00.000



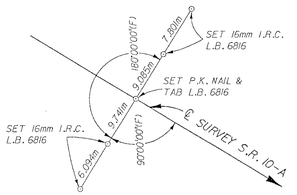

STATE ROAD 10-A
P.C. STA. 66+86.260



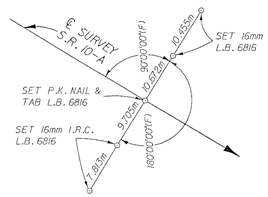

STATE ROAD 10-A
P.T. STA. 68+08.862



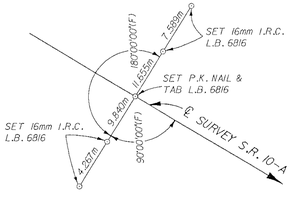

STATE ROAD 10-A
STA. 72+00.000



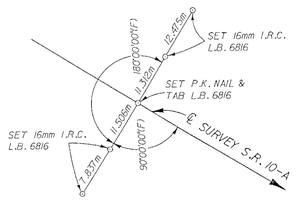

STATE ROAD 10-A
STA. 76+00.000



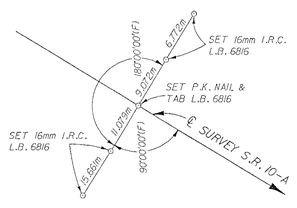

STATE ROAD 10-A
STA. 80+00.000



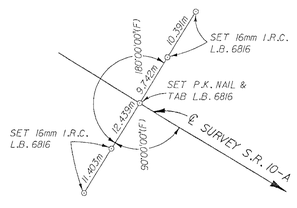

STATE ROAD 10-A
STA. 84+00.000



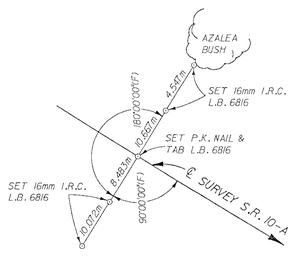

STATE ROAD 10-A
STA. 88+00.000



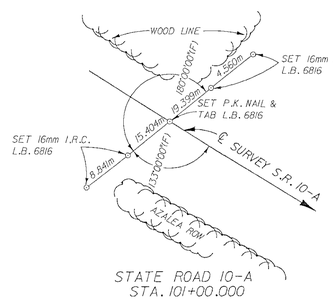

STATE ROAD 10-A
P.I. STA. 89+29.412



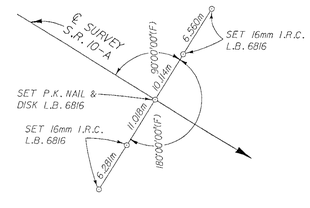

STATE ROAD 10-A
STA. 93+00.000



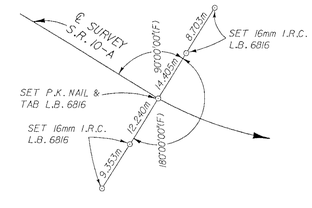

STATE ROAD 10-A
STA. 97+00.000



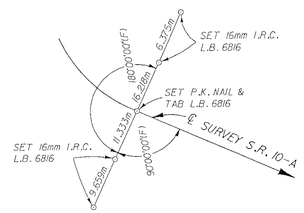

STATE ROAD 10-A
STA. 101+00.000



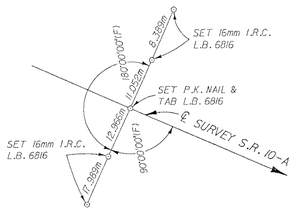

STATE ROAD 10-A
STA. 103+00.000



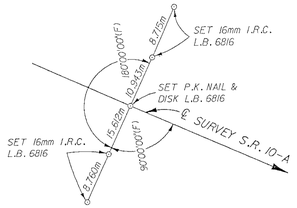

STATE ROAD 10-A
P.C. STA. 107+16.290



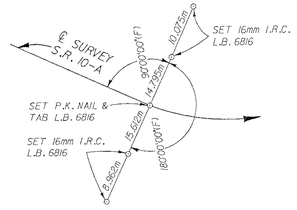

STATE ROAD 10-A
P.T. STA. 108+36.607



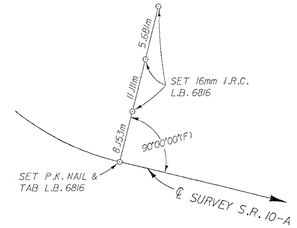

STATE ROAD 10-A
STA. 112+00.000



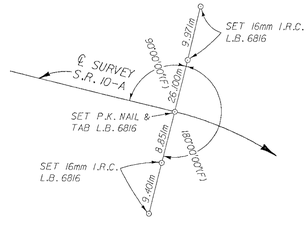

STATE ROAD 10-A
STA. 116+00.000



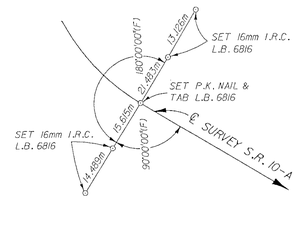

STATE ROAD 10-A
P.C. STA. 118+10.242




STATE ROAD 10-A
P.T. STA. 119+62.650




STATE ROAD 10-A
P.C. STA. 121+40.516




STATE ROAD 10-A
P.T. STA. 124+01.387

SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY<br>R. B. Hood<br>DISTRICT SURVEYOR ADMINISTRATOR | DATE<br>10-25-01 | REVISION | BY | DATE | REVISION | BY | DATE | PRELIM<br>FINAL<br>CHECKED | BY<br>E.E.W.<br>E.E.W.<br>W.L.E. | DATE<br>08-23-01<br>08-28-01<br>08-27-01 |

F.A.P. NO. N/A

STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY

MAPS PREPARED BY:
GENESIS GROUP
2507 CALLAWAY ROAD, SUITE 100
TALLAHASSEE, FL. 32303

FIELD BOOK NO.'S
20040018, 20040029, 20040022, 20040038
20040058, 20421043, 20421051, 20421059
20421069, 20421069

W.P.I. NO. 3112056

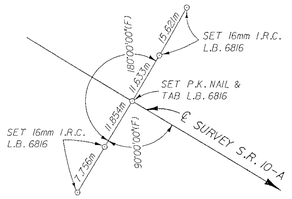
F.P. NO. 2186801

SCALE:N.T.S.

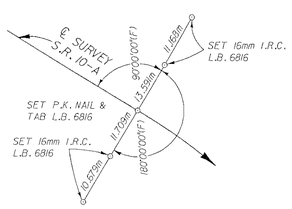
SHEET 21 OF 22

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

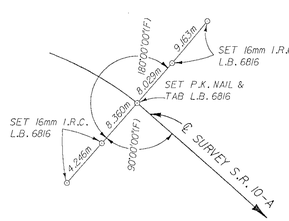
# REFERENCE POINTS



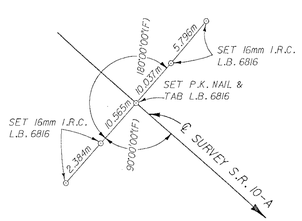

STATE ROAD 10-A
STA. 128+00.000



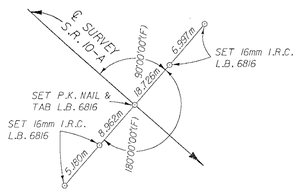

STATE ROAD 10-A
P.C. STA. 131+16.111



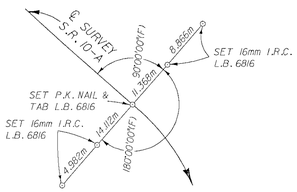

STATE ROAD 10-A
P.T. STA. 131+82.719



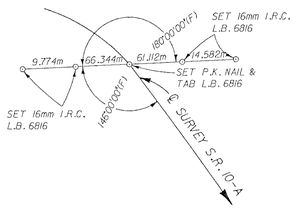

STATE ROAD 10-A
STA. 136+00.000




STATE ROAD 10-A
STA. 140+00.000

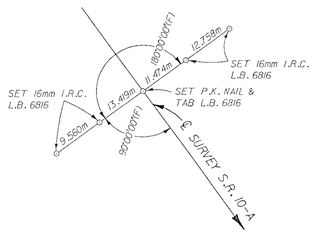



STATE ROAD 10-A
P.C. STA. 140+63.754

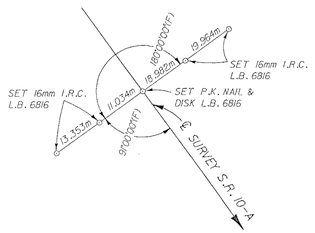



STATE ROAD 10-A
P.T. STA. 143+09.979

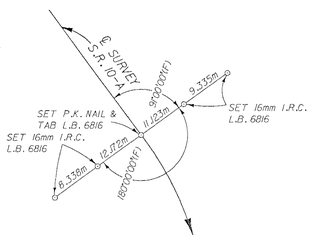
NORTH
N.T.S.



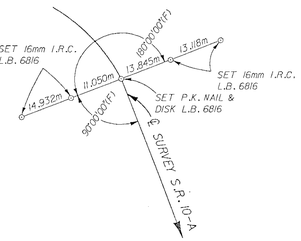

STATE ROAD 10-A
STA. 147+00.000



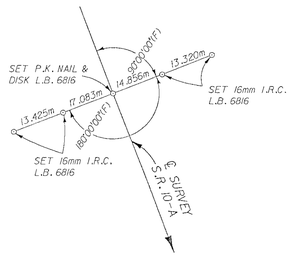

STATE ROAD 10-A
STA. 151+00.000



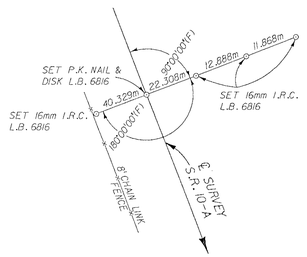

STATE ROAD 10-A
P.C. STA. 151+94.960



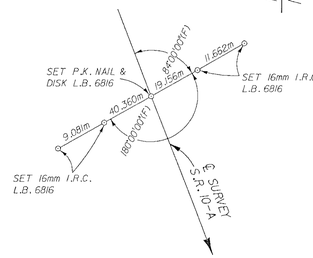

STATE ROAD 10-A
P.T. STA. 152+94.389




STATE ROAD 10-A
STA. 155+00.000




STATE ROAD 10-A
STA. 159+00.000




END OF SURVEY
STATE ROAD 10-A
STA. 161+30.047

SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

| | | | |
|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. L. Hood DATE 10-28-01<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION / BY / DATE / REVISION / BY / DATE |

| | BY | DATE |
|---|---|---|
| PRELIM | E.E.W. | 08-23-01 |
| FINAL | E.E.W. | 08-28-01 |
| CHECKED | W.L.E. | 08-27-01 |

F.A.P. NO. N/A

STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY

MAPS PREPARED BY:
GENESIS GROUP
2507 CALLAWAY ROAD, SUITE 100
TALLAHASSEE, FL. 32303

FIELD BOOK NO.'S
20040019, 20040020, 20040022, 20040038
20040056, 20421041, 20421051, 20421059
20421060, 20421069

W.P.I. NO. 3112056

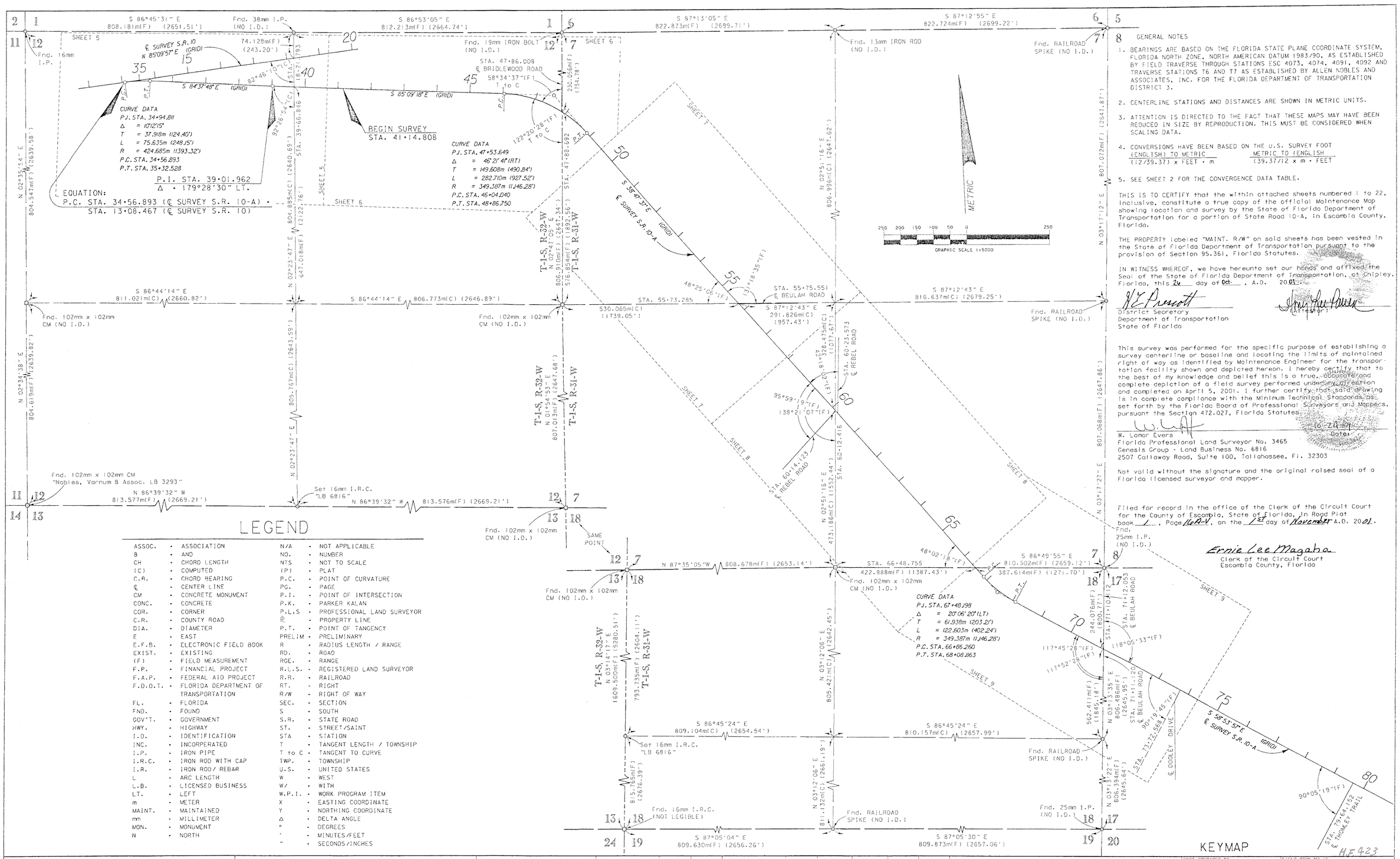
SCALE: N.T.S.

F.P. NO. 2186801

SHEET 22 OF 22

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

REORDER BY NUMBER 07/04/81
REORDER BY NUMBER 07/04/81




## LEGEND

| | | | |
|---|---|---|---|
| ASSOC. | ASSOCIATION | N/A | NOT APPLICABLE |
| & | AND | NO. | NUMBER |
| CH | CHORD LENGTH | NTS | NOT TO SCALE |
| (C) | COMPUTED | (P) | PLAT |
| C.B. | CHORD BEARING | P.C. | POINT OF CURVATURE |
| ℄ | CENTER LINE | PG. | PAGE |
| CM | CONCRETE MONUMENT | P.I. | POINT OF INTERSECTION |
| CONC. | CONCRETE | P.K. | PARKER KALAN |
| COR. | CORNER | P.L.S. | PROFESSIONAL LAND SURVEYOR |
| C.R. | COUNTY ROAD | ℙ | PROPERTY LINE |
| DIA. | DIAMETER | P.T. | POINT OF TANGENCY |
| E | EAST | PRELIM | PRELIMINARY |
| E.F.B. | ELECTRONIC FIELD BOOK | R | RADIUS LENGTH / RANGE |
| EXIST. | EXISTING | RD. | ROAD |
| (F) | FIELD MEASUREMENT | RGE. | RANGE |
| F.P. | FINANCIAL PROJECT | R.L.S. | REGISTERED LAND SURVEYOR |
| F.A.P. | FEDERAL AID PROJECT | R.R. | RAILROAD |
| F.D.O.T. | FLORIDA DEPARTMENT OF TRANSPORTATION | RT. | RIGHT |
| | | R/W | RIGHT OF WAY |
| FL. | FLORIDA | SEC. | SECTION |
| FND. | FOUND | S | SOUTH |
| GOV'T. | GOVERNMENT | S.R. | STATE ROAD |
| HWY. | HIGHWAY | ST. | STREET/SAINT |
| I.D. | IDENTIFICATION | STA | STATION |
| INC. | INCORPERATED | T | TANGENT LENGTH / TOWNSHIP |
| I.P. | IRON PIPE | T to C | TANGENT TO CURVE |
| I.R.C. | IRON ROD WITH CAP | TWP. | TOWNSHIP |
| I.R. | IRON ROD / REBAR | U.S. | UNITED STATES |
| L | ARC LENGTH | W | WEST |
| L.B. | LICENSED BUSINESS | W/ | WITH |
| LT. | LEFT | W.P.I. | WORK PROGRAM ITEM |
| m | METER | X | EASTING COORDINATE |
| MAINT. | MAINTAINED | Y | NORTHING COORDINATE |
| mm | MILLIMETER | Δ | DELTA ANGLE |
| MON. | MONUMENT | ° | DEGREES |
| N | NORTH | ' | MINUTES/FEET |
| | | " | SECONDS/INCHES |

## 8 GENERAL NOTES

1. BEARINGS ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE, NORTH AMERICAN DATUM 1983/90, AS ESTABLISHED BY FIELD TRAVERSE THROUGH STATIONS ESC 4073, 4074, 4091, 4092 AND TRAVERSE STATIONS T6 AND T7 AS ESTABLISHED BY ALLEN NOBLES AND ASSOCIATES, INC. FOR THE FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 3.
2. CENTERLINE STATIONS AND DISTANCES ARE SHOWN IN METRIC UNITS.
3. ATTENTION IS DIRECTED TO THE FACT THAT THESE MAPS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN SCALING DATA.
4. CONVERSIONS HAVE BEEN BASED ON THE U.S. SURVEY FOOT
   (ENGLISH) TO METRIC: (12/39.37) x FEET = m
   METRIC TO (ENGLISH: (39.37/12 x m = FEET
5. SEE SHEET 2 FOR THE CONVERGENCE DATA TABLE.

THIS IS TO CERTIFY that the within attached sheets numbered 1 to 22, inclusive, constitute a true copy of the official Maintenance Map showing location and survey by the State of Florida Department of Transportation for a portion of State Road 10-A, in Escambia County, Florida.

THE PROPERTY labeled "MAINT. R/W" on said sheets has been vested in the State of Florida Department of Transportation pursuant to the provision of Section 95.361, Florida Statutes.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed the Seal of the State of Florida Department of Transportation, at Chipley, Florida, this 24 day of Oct., A.D. 2001.

K. Z. Prescott
District Secretary
Department of Transportation
State of Florida

(SEAL)

This survey was performed for the specific purpose of establishing a survey centerline or baseline and locating the limits of maintained right of way as identified by Maintenance Engineer for the transportation facility shown and depicted hereon. I hereby certify that to the best of my knowledge and belief this is a true, accurate and complete depiction of a field survey performed under my direction and completed on April 5, 2001. I further certify that said drawing is in complete compliance with the Minimum Technical Standards, as set forth by the Florida Board of Professional Surveyors and Mappers, pursuant to Section 472.027, Florida Statutes.

W. Lamar Evers
Florida Professional Land Surveyor No. 3465
Genesis Group - Land Business No. 6816
2507 Callaway Road, Suite 100, Tallahassee, Fl. 32303

10-26-01
Date

Not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper.

Filed for record in the office of the Clerk of the Circuit Court for the County of Escambia, State of Florida, in Road Plat book 1, Page 10A-V, on the 1st day of November A.D. 2002.

Ernie Lee Magaha
Clerk of the Circuit Court
Escambia County, Florida

KEYMAP

HE423

# MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY R. H. Wood DATE 10-25-01
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|
| | | | | | |

| | BY | DATE |
|---|---|---|
| PRELIM | E.E.W. | 08-23-01 |
| FINAL | E.E.W. | 08-28-01 |
| CHECKED | W.L.E. | 08-27-01 |

F.A.P. NO. N/A

STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY

MAPS PREPARED BY: GENESIS GROUP, 2507 CALLAWAY ROAD, SUITE 100, TALLAHASSEE, FL. 32303

W.P.I. NO. 3112056

F.P. NO. 2186801

FIELD BOOK NO.'S: 20040019, 20040020, 20040027, 20040038, 20040056, 20421043, 20421051, 20421059, 20421060, 20421069

SCALE: 1:5000

SHEET 1 OF 22

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

Fnd. 25mm I.P. (NO I.D.)
Fnd. 25mm DIAMETER AXLE (NO I.D.)
Set 16mm I.R.C. "LB 6816"
Fnd. 90mm DIAMETER CM (NO I.D.)
Fnd. 25mm IP (NO I.D.)
Fnd. R.R. SPIKE (NO I.D.) MARKING THE WEST QUARTER OF SECTION 17, T-1-S, R-31-W
Fnd. 16mm I.R.C. (NO I.D.)
Fnd. 102mm x 102mm CM (NO I.D.)
Fnd. 38mm I.P. (NO I.D.)
Fnd. 25mm I.P. (NO I.D.)
Fnd. 102mm x 102mm CM "Pittman 1748"
Fnd. 102mm x 102mm CM "St. Regis"
Fnd. 90mm DIAMETER CM (NO I.D.)
SET 16mm I.R.C. LB 6816
Set 16mm I.R.C. "LB 6816"

POND
DEERFIELD ESTATES PLAT BOOK 6, PAGE 35
DETENTION POND
BERARDO WOOD PLAT BOOK 3, PAGE 42

STA. 79+64.152 ℄ THOMLEY TRAIL
STA. 80+25.696
STA. 82+96.863
STA. 89+40.776
STA. 90+03.574 ℄ T-JAR DRIVE
STA. 89+44.381 ℄ BEULAH SCHOOL ROAD
STA. 98+57.236
STA. 99+84.564
STA. 102+06.662 ℄ STILLERLAKE ROAD
STA. 104+69.229 ℄ WILSHIRE ROAD
STA. 106+14.914 ℄ STAGECOACH ROAD
STA. 107+70.995
STA. 107+73.997 ℄ JAMESVILLE ROAD
STA. 112+79.289 ℄ GLIDDEN LANE
STA. 112+03.821
STA. 116+36.213
STA. 120+00.035

CURVE DATA
P.I. STA. 107+76.544
Δ = 7°53'40" (LT)
T = 60.254m (197.68')
L = 120.317m (394.74')
R = 873.232m (2,864.93')
P.C. STA. 107+16.290
P.T. STA. 108+36.608

CURVE DATA
P.I. STA. 118+86.640
Δ = 10°00'00" (LT)
T = 76.398m (250.65')
L = 152.408m (500.02')
R = 873.232m (2,864.93')
P.C. STA. 118+10.242
P.T. STA. 119+62.650

EXISTING GULF POWER COMPANY TRANSMISSION LINE EASEMENT

GOV'T. LOT 2
GOV'T. LOT 3
GOV'T. LOT 4
GOV'T. LOT 5
THOMAS ENGLISH GRANT

SHEET 10
SHEET 11
SHEET 12
SHEET 13
SHEET 14
SHEET 15
SHEET ELEVEN
SHEET 17

T-1-S, R-31-W
METRIC
250 200 150 100 50 0 250
GRAPHIC SCALE 1:5000

| CONVERGENCE DATA TABLE | | | | | |
|---|---|---|---|---|---|
| | STATION | X(EASTING) | Y(NORTHING) | CONVERGENCE | SCALE FACTOR |
| BEGIN | 41+14.808 | 321300.34593 | 173661.45493 | -01°27'35" | 0.99996891 |
| P.C | 46+04.040 | 321787.83019 | 173620.13367 | -01°27'25" | 0.99996888 |
| P.I | 47+53.649 | 321936.90393 | 173607.49754 | -01°27'23" | 0.99996887 |
| P.T. | 48+86.750 | 322030.63582 | 173490.89143 | -01°27'21" | 0.99996876 |
| P.C. | 66+86.260 | 323158.05564 | 172088.33727 | -01°26'59" | 0.99996740 |
| P.I. | 67+48.198 | 323196.86087 | 172040.06205 | -01°26'58" | 0.99996736 |
| P.T. | 68+08.862 | 323249.89600 | 172008.06800 | -01°26'57" | 0.99996733 |
| P.I. | 89+29.412 | 325065.63447 | 170912.70292 | -01°26'22" | 0.99996633 |
| P.C. | 107+16.290 | 326586.18771 | 169974.16575 | -01°25'53" | 0.99996549 |
| P.I. | 107+76.544 | 326637.46124 | 169942.51798 | -01°25'52" | 0.99996546 |
| P.T. | 108+36.608 | 326692.59562 | 169918.21248 | -01°25'51" | 0.99996544 |
| P.C | 118+10.242 | 327583.50080 | 169525.46497 | -01°25'34" | 0.99996510 |
| P.I | 118+86.640 | 327653.40729 | 169494.64732 | -01°25'33" | 0.99996508 |
| P.T. | 119+62.649 | 327727.60317 | 169476.43700 | -01°25'32" | 0.99996506 |
| P.C. | 121+40.516 | 327900.34284 | 169434.04051 | -01°25'28" | 0.99996503 |
| P.I. | 122+71.930 | 328027.96951 | 169402.71636 | -01°25'26" | 0.99996500 |
| P.T. | 124+01.387 | 328140.72400 | 169335.21676 | -01°25'24" | 0.99996495 |
| P.C. | 131+16.111 | 328753.96174 | 168968.10679 | -01°25'12" | 0.99996463 |
| P.I. | 131+49.508 | 328782.61637 | 168950.95292 | -01°25'11" | 0.99996461 |
| P.T. | 131+82.719 | 328807.68439 | 168928.88628 | -01°25'11" | 0.99996460 |
| P.C. | 140+63.754 | 329538.52456 | 168285.54906 | -01°24'57" | 0.99996404 |
| P.I. | 141+87.327 | 329561.75635 | 168265.09879 | -01°24'56" | 0.99996402 |
| P.T. | 143+09.979 | 329705.63225 | 168103.51380 | -01°24'54" | 0.99996389 |
| P.C. | 151+94.960 | 330028.20821 | 167666.94268 | -01°24'47" | 0.99996351 |
| P.I. | 152+44.960 | 330191.80176 | 167414.46404 | -01°24'44" | 0.99996330 |
| P.T. | 152+94.389 | 330248.86360 | 167268.28448 | -01°24'43" | 0.99996318 |
| END | 161+30.047 | 330516.89732 | 166590.62953 | -01°24'38" | 0.99996261 |

KEYMAP
SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL NOTES.

MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY R. H. Good DATE 10-25-01
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|
| | | | | | |

| | BY | DATE |
|---|---|---|
| PRELIM | E.E.W. | 08-23-01 |
| FINAL | E.E.W. | 08-28-01 |
| CHECKED | W.L.E. | 08-27-01 |

F.A.P. NO. N/A
STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY

MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303
FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038 20040056, 20421043, 20421051, 20421059 20421066, 20421069
W.P.I. NO. 3112056
SCALE: 1:5000
F.P. NO. 2186801
SHEET 2 OF 22

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

REORDER BY NUMBER (07/94)
REORDER BY NUMBER

Fnd. 102mm x 102mm CM (NO I.D.)

808.387m(F) (2652.18')

S 87°47'47" E 404.193m(C) (1326.09')

15 14 22 23

Fnd. 102mm x 102mm CM w/ BRASS DISK "PLS 3578" NORTH QUARTER CORNER OF SECTION 23, T-1-S, R-31-W.

S 87°16'50" E 807.313m(F) (2648.66')

403.656m(C) (1324.33')

403.657m(C) (1324.33')

S 87°16'25" E 806.796m(F) (2646.96')

403.398m(C) (1323.48')

403.398m(C) (1323.48')

14 13 23 24

Fnd. 102mm x 102mm CM w/ BRASS DISK "T-1-S, R-31-W PLS 3578"

GOV'T LOT 2

GOV'T LOT 1

GOV'T LOT 4

GOV'T LOT 3

GOV'T LOT 2

GOV'T LOT 1

N 03°14'09" E 803.191m(C) (2635.14')

N 03°07'52" E 803.730m(F) (2636.90')

N 03°04'34" E 804.146m(C) (2638.27')

N 03°01'17" E 804.563m(C) (2639.64')

N 02°56'30" E 804.979m(C) (2640.84')

N 02°51'43" E 805.297m(F) (2642.05')

EXISTING GULF POWER COMPANY TRANSMISSION LINE EASEMENT

SHEET 15

SHEET 16

SHEET 17

SHEET 1

SHEET 7

SHEET 8

SHEET 9

SHEET 10

SHEET 11

SHEET 12

SHEET 13

SHEET 14

SHEET 18

MILE CREEK

EIGHT MILE CREEK

S 87°43'01" E 405.654m(C) (1330.88')

464.707m(F) (1524.63')

S 87°43'01" E 404.423m(C) (1326.84')

S 87°43'01" E 404.423m(C) (1326.84')

S 87°43'01" E 404.517m(C) (1327.15')

S 87°43'01" E 404.517m(C) (1327.15')

Fnd. 102mm x 102mm CM (NO I.D.)

Fnd. 25mm I.P. (NO I.D.)

S 16°12'47" E (GRID)

ELEVEN P.C.

CURVE DATA
P.I. STA. 122+71.930
Δ = 17°07'00"(RT)
T = 131.414m (431.15')
L = 260.871m (855.88')
R = 873.232m (2,864.93')
P.C. STA. 121+40.516
P.T. STA. 124+01.387

P.T.

N 03°22'21" E 351.805m(F) (1154.24')

90.998m(F) (626.63')

TANGENT HEIGHTS PLATBOOK 3, PAGE 15

FIRST ADDITION TO HEATHERWOOD PLATBOOK 3, PAGE 15

HEATHERWOOD PLATBOOK 3, PAGE 15

POND

S 87°43'01" E 1384.648m(F) (4542.80')

S 87°43'01" E 1171.190m(F) (3841.65')

Fnd. 102mm x 102mm CM (NO I.D.)

Fnd. 25mm IP (NO I.D.)

GOV'T LOT 5

GOV'T LOT 6

GOV'T LOT 7

THOMAS ENGLISH GRANT

N 09°31'55" E 424.132m(F) (1391.47')

S 85°35'14"(F) T to C

STA. 131+45.388 & EIGHT MILE CREEK ROAD

652.841m(C) (2141.21')

N 03°01'17" E 812.039m(C) (2664.17')

N 03°04'13" E 812.473m(C) (2665.59')

N 03°07'08" E 812.908m(F) (2667.02')

STA. 134+41.255

S 39°54'54"(F)

CURVE DATA
P.I. STA. 131+49.508
Δ = 10°27'00"(RT)
T = 33.397m (109.57')
L = 66.608m (218.53')
R = 365.203m (1,198.37')
P.C. STA. 131+16.111
P.T. STA. 131+82.719

STORM POND

CRYSTAL LAKE PLATBOOK 6, PAGE 41

CREEK PAGE 41

POND

Fnd. 13mm IR (NO I.D.)

S 85°37'52" E 689.171m(F) (2261.06')

Fnd. 19mm IP (NO I.D.)

STA. 136+97.216

159.398m(F) (522.98')

S 31°50'51"(F)

200.777m(F) (658.72')

203.047m(C) (666.15')

403.824m(C) (1324.88')

S 87°09'35" E 807.648m(F) (2649.76')

S 87°04'38" E 807.804m(F) (2650.27')

Set 16mm I.R.C. "LB 6816"

S 87°04'38" E 807.804m(F) (2650.27')

Fnd. 102mm x 102mm CM (NO I.D.)

Fnd. 102mm x 102mm CONC. MON. (NO I.D.)

141°29'02"(F)

S 48°38'37" E

℄ SURVEY S.R. 10-A (GRID)

STA. 134+41.140 ℄ MILLVIEW ROAD

CURVE DATA
P.I. STA. 141+87.327
Δ = 12°07'01"(RT)
T = 123.573m (405.42')
L = 246.224m (807.82')
R = 1,164.287m (3,819.83')
P.C. STA. 140+63.754
P.T. STA. 143+09.978

P.C.

GOV'T LOT 3

GOV'T LOT 2

GOV'T LOT 1

T-1-S, R-31-W

METRIC

250 200 150 100 50 0 250

GRAPHIC SCALE 1:5000

T-1-S, R-31-W

T-1-S, R-30-W

KEYMAP

SEE SHEET ONE FOR LEGEND, CERTFICATION AND GENERAL NOTES.

MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY: R H Hood DATE: 10-25-01
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|
| | | | | | |

| | BY | DATE |
|---|---|---|
| PRELIM | E.E.W. | 08-23-01 |
| FINAL | E.E.W. | 08-28-01 |
| CHECKED | W.L.E. | 08-27-01 |

F.A.P. NO. N/A

STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY

MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303

FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038, 20040055, 20421043, 20421051, 20421059, 20421060, 20421069

W.P.I. NO. 3112056

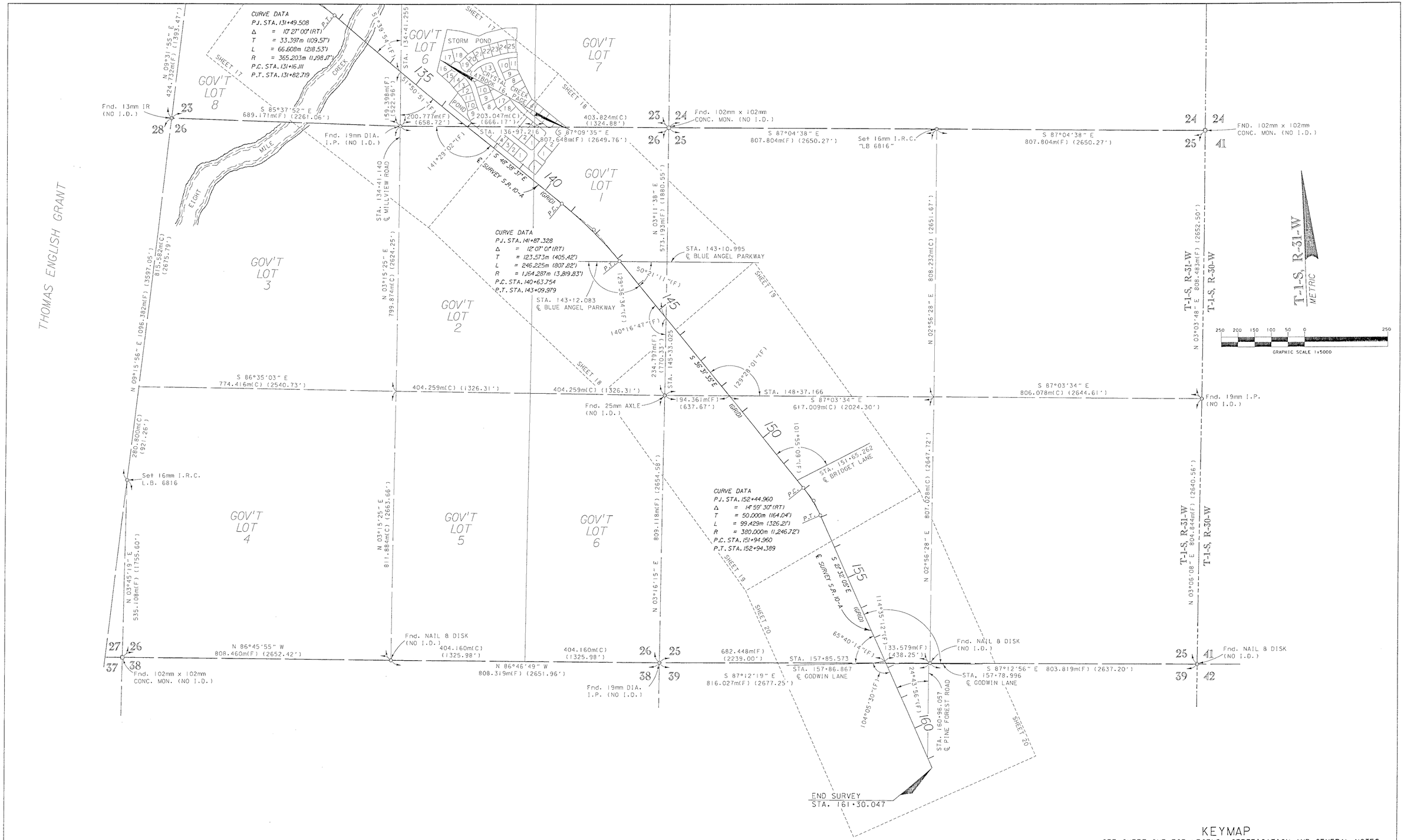
SCALE 1:5000

F.P. NO. 2186801

SHEET 3 OF 22

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

RECORDED BY NUMBER D7DAR
RECORDED BY NUMBER D7DAR

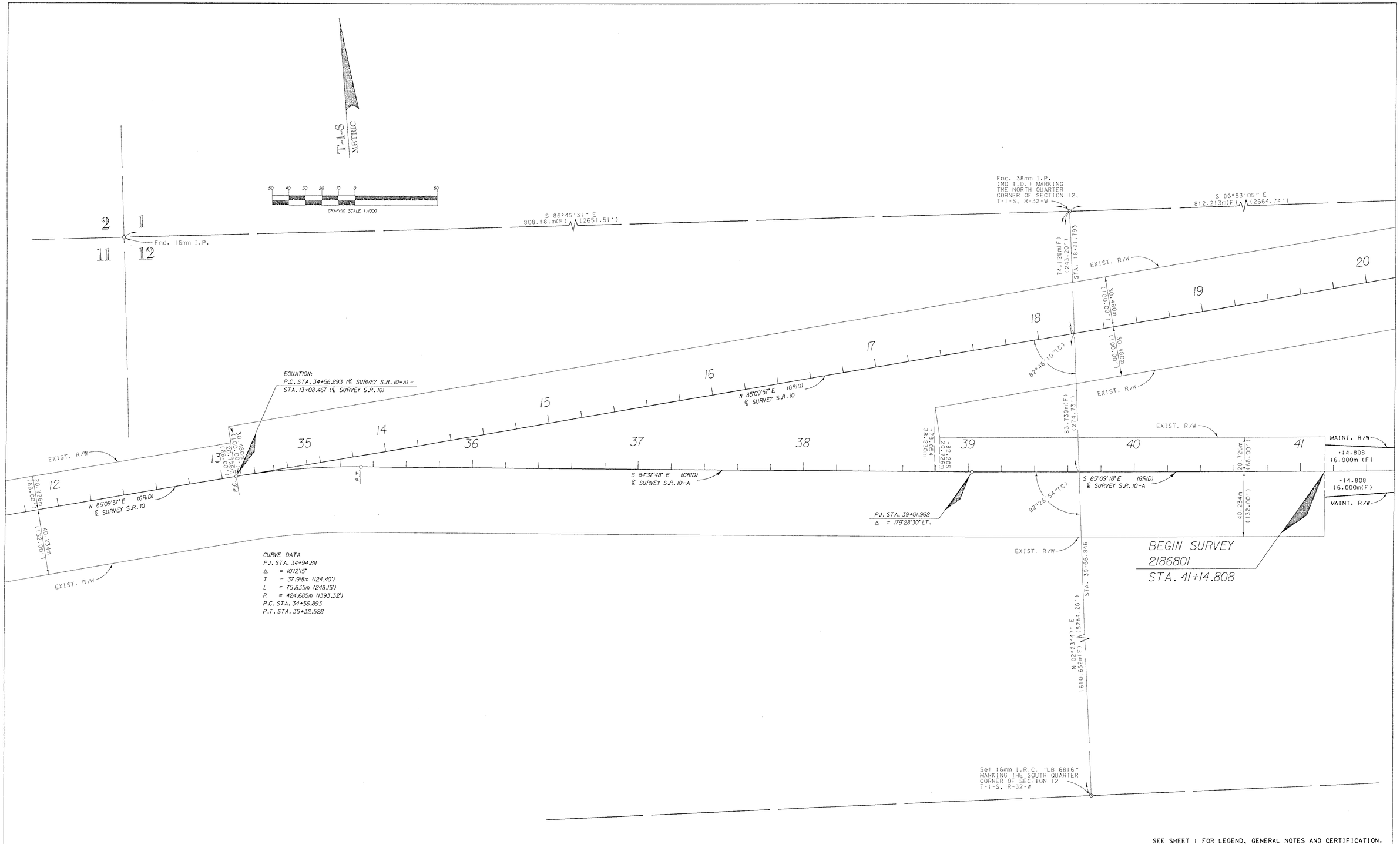



KEYMAP

SEE SHEET ONE FOR LEGEND, CERTFICATION AND GENERAL NOTES.

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. G. Hood DATE 10-25-01<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A.P. NO. N/A | MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303 | FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038 20040056, 20421043, 20421051, 20421059 20421060, 20421069 |
| | | | | | | | | | PRELIM | E.E.W. | 08-23-01 | | | |
| | | | | | | | | | FINAL | E.E.W. | 08-28-01 | STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY | W.P.I. NO. 3112056 | SCALE: 1:5000 |
| | | | | | | | | | CHECKED | W.L.E. | 08-27-01 | | F.P. NO. 2186801 | SHEET 4 OF 22 |

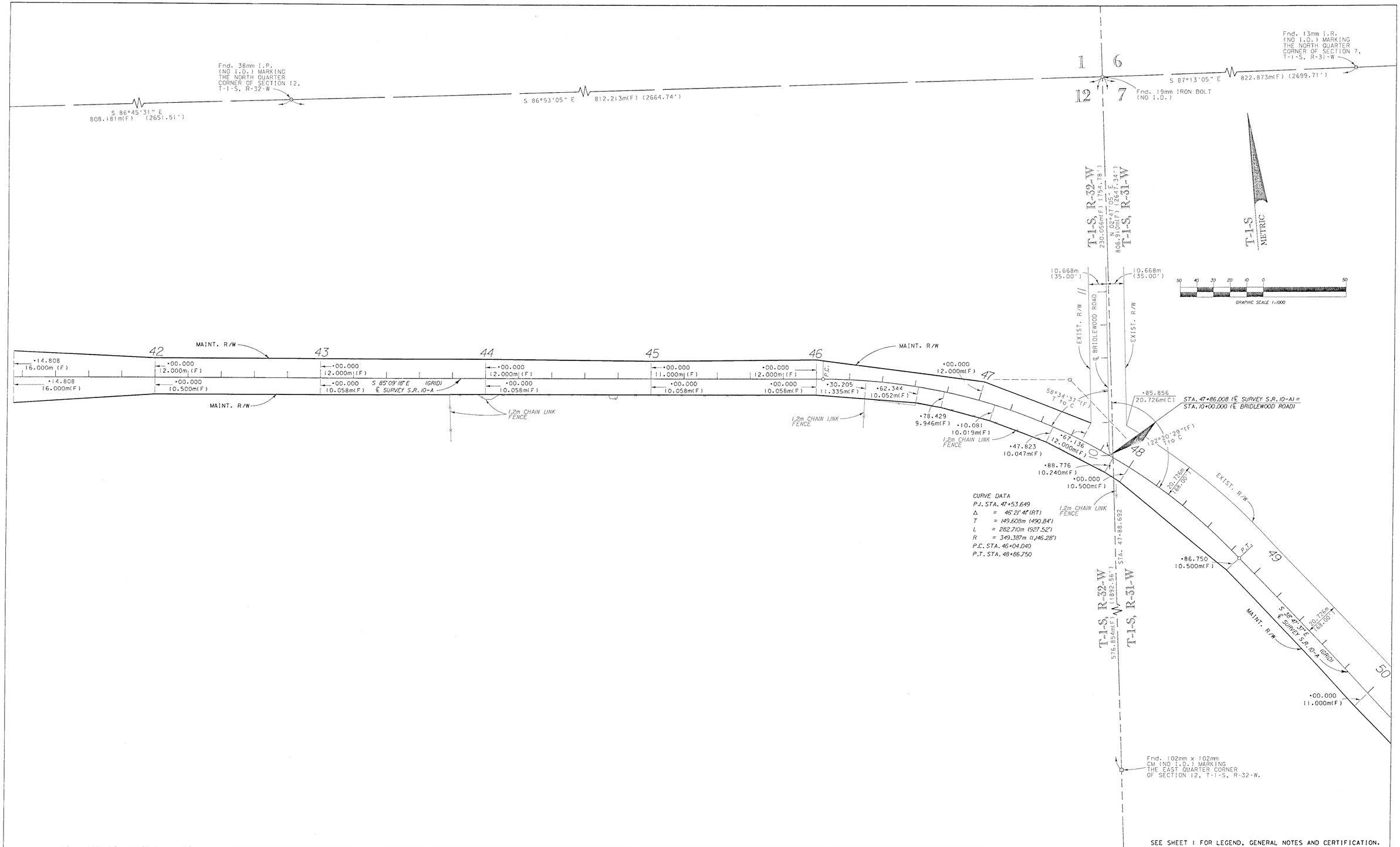
STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGUN FOUR LANE AT GODWIN LANE




SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. G. Wood DATE 10-25-01<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A.P. NO. N/A | MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303 | FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038 20040056, 20421043, 20421051, 20421059 20421060, 20421069 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | PRELIM | E.E.W. | 08-23-01 | | | |
| | | | | | | | | | FINAL | E.E.W. | 08-28-01 | STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY | W.P.I. NO. 3112056 | SCALE: 1:1000 |
| | | | | | | | | | CHECKED | W.L.E. | 08-27-01 | | F.P. NO. 2186801 | SHEET 5 OF 22 |

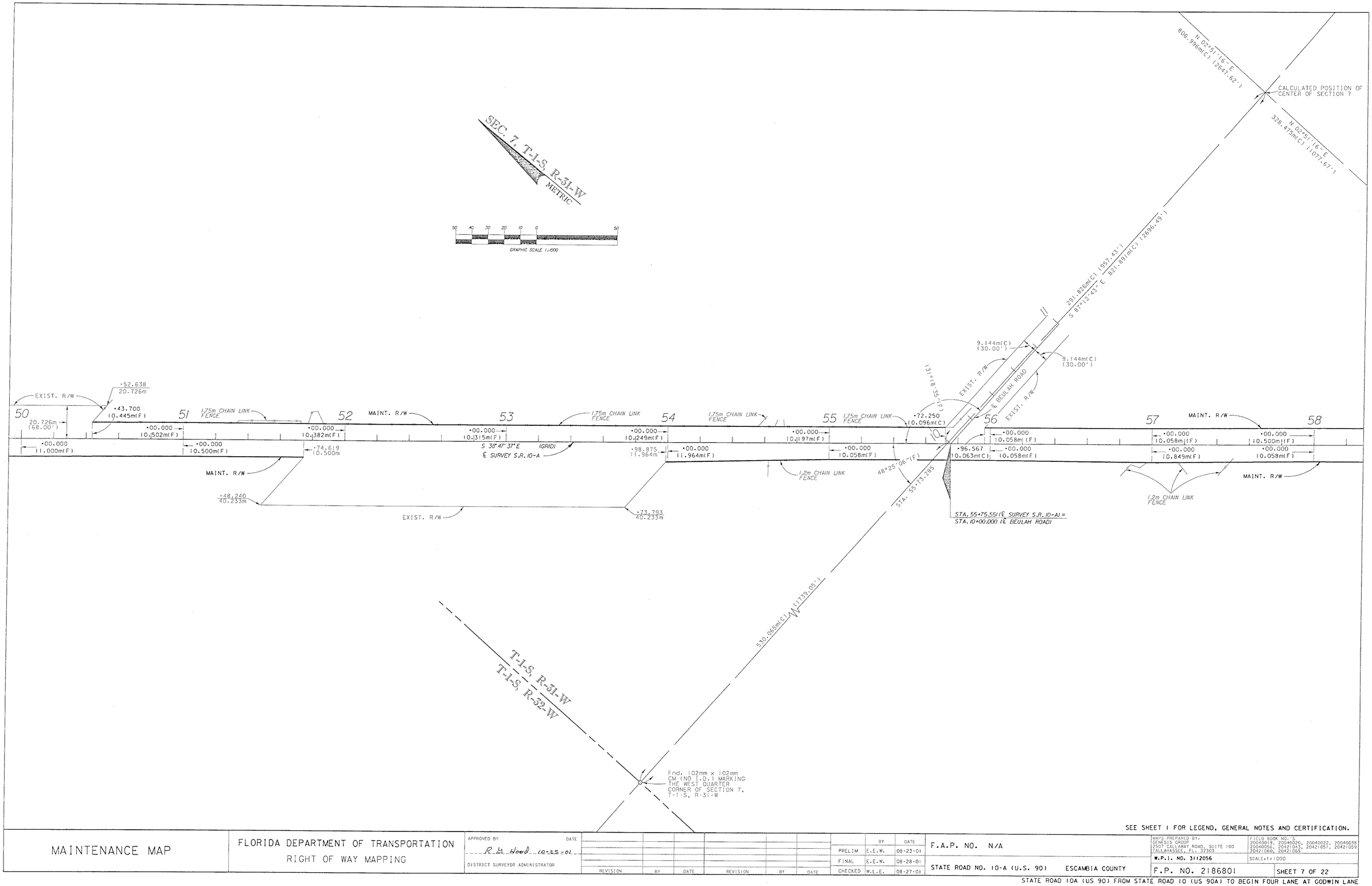
STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE




SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. B. Hood DATE 10-25-01<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A.P. NO. N/A | MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303 | FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038 20040056, 20421043, 20421051, 20421059 20421060, 20421069 |
| | | | | | | | | | PRELIM | E.E.W. | 08-23-01 | | | |
| | | | | | | | | | FINAL | E.E.W. | 08-28-01 | STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY | W.P.I. NO. 3112056 | SCALE: 1:1000 |
| | | | | | | | | | CHECKED | W.L.E. | 08-27-01 | | F.P. NO. 2186801 | SHEET 6 OF 22 |

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE




SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY _____ DATE 10-25-01
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|
| | | | | | |

| | BY | DATE |
|---|---|---|
| PRELIM | E.E.W. | 08-23-01 |
| FINAL | E.E.W. | 08-28-01 |
| CHECKED | W.L.E. | 08-27-01 |

F.A.P. NO. N/A

STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY

MAPS PREPARED BY:
GENESIS GROUP
2507 CALLAWAY ROAD, SUITE 160
TALLAHASSEE, FL. 32303

FIELD BOOK NO.'S
20040019, 20040020, 20040022, 20040038
20040056, 20421043, 20421051, 20421059
20421060, 20421069

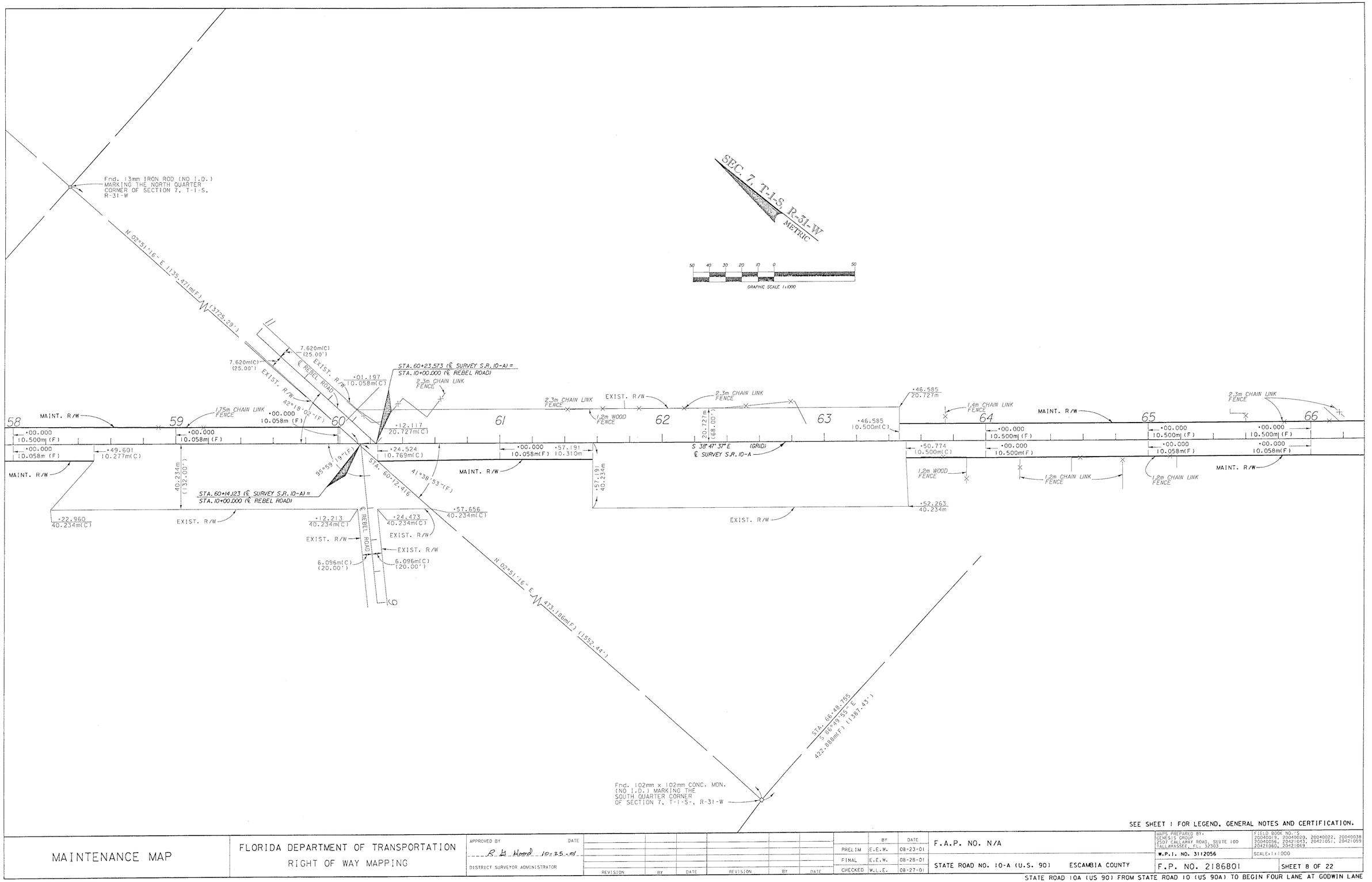
W.P.I. NO. 3112056

SCALE: 1:1000

F.P. NO. 2186801

SHEET 7 OF 22

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE




SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY _____ DATE 10-25-01
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|
| | | | | | |

| | BY | DATE |
|---|---|---|
| PRELIM | E.E.W. | 08-23-01 |
| FINAL | E.E.W. | 08-28-01 |
| CHECKED | W.L.E. | 08-27-01 |

F.A.P. NO. N/A

STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY

MAPS PREPARED BY:
GENESIS GROUP
2507 CALLAWAY ROAD, SUITE 100
TALLAHASSEE, FL. 32303

FIELD BOOK NO.'S
20040019, 20040020, 20040022, 20040038
20040056, 20421043, 20421051, 20421059
20421062, 20421069

W.P.I. NO. 3112056

SCALE: 1:1000

F.P. NO. 2186801

SHEET 8 OF 22

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

Fnd. R.R. SPIKE (NO I.D.)
MARKING THE EAST QUARTER
CORNER OF SECTION 7, T-1-S,
R-31-W

807.088m(F) N 03°17'27" E (2647.86')

SET 16mm IRC LB 6816
MARKING THE NORTH
QUARTER CORNER OF
SECTION 17, T-1-S, R-31-W.

S 87°13'47" E
809.754m(F) (2656.67')

8
7
17
18

Fnd. 25mm I.P.
(NO I.D.)

244.576m(F) S 03°13'35" W
STA. 71+10.172 (800.77')

T-1-S, R-31-W
METRIC

50 40 30 20 10 0 50
GRAPHIC SCALE 1:1000

S 86°49'55" E
810.502m(F) (2659.12')
387.614m(F) (1271.70')

STA. 66+48.755

2.3m CHAIN LINK FENCE

CURVE DATA
P.I. STA. 67+48.198
Δ = 20°06'20" (LT)
T = 61.938m (203.21')
L = 122.603m (402.24')
R = 349.387m (1146.28')
P.C. STA. 66+86.260
P.T. STA. 68+08.863

131°57'42" (F)

66
·00.000
10.500m(F)
S 38°47'3"E (GRID)

·00.000
10.058m(F)
·39.324
10.487m

422.888m(F)
(1387.43')

40.234m
(132.00')

·80.000
10.928m(C)

·86.260
10.500m(F)

·86.260
11.00m(F)

·50.000
10.058m(F)

·12.577
40.233m

·86.259
40.234m

·09.085
40.234m

EXIST. R/W

Fnd. 102mm x102mm
CONC. MON. (NO I.D.)
MARKING THE NORTH
QUARTER OF SECTION 18,
T-1-S, R-31-W

67

·86.260
10.500m(F)

·50.000
10.500m(F)

·64.255
9.308m(C)

·01.854
10.039m(C)

2.3m CHAIN LINK FENCE

68

·00.000
10.500m(F)

P.T.

·08.863
10.500m(F)

·08.863
10.058m(F)

·39.886
10.208m(C)

·44.159
18.288m

8.288m
(60.00')

EXIST. R/W

·55.766
40.234m

·82.302
18.288m

·93.909
40.234m

CROSS-HATCHED AREA QUIT CLAIMED
(O.R. BK. 5282, PG. 666)

1.4m CHAIN LINK FENCE
MAINT. R/W

·99.379
20.726m

EXIST. R/W

·51.917
20.726m

·57.174
10.786m(C)

69

·04.775
10.524m(C)

·00.000
10.500m (F)

·00.000
10.500m (F)

·78.126
10.393m

·00.000
12.000m(F)

MAINT. R/W

70

·00.000
11.000m(F)

·31.548
12.000m(C)

EXIST. R/W

·46.481
40.234m

STA. 71+11.120 (℄ SURVEY S.R. 10-A) =
STA. 10+00.000 ℄ BEULAH ROAD)

7.620m
(25.00')

7.620m
(25.00')

EXIST. R/W

℄ BEULAH ROAD

EXIST. R/W

STA. 71+12.053 (℄ SURVEY S.R. 10-A) =
STA. 10+00.000 ℄ BEULAH ROAD)

HATCHED AREA QUIT CLAIMED
(EXISTING R/W) TO F.D.O.T.
O.R. BOOK 6394, PAGE 1866
AND O.R. BOOK 6395, PAGE 1158

62°07'32" (F)

·97.543
11.000m

71

·14.818
11.000m

118°25'33" (F)

HATCHED AREA QUIT CLAIMED
(EXISTING R/W) TO F.D.O.T.
O.R.B. 6522, PAGES 1201 & 1202

·29.36
18.288m

·23.683
40.234m

·40.905
40.234m

·95.31
40.234m

·07.73
40.234m

EXIST. R/W

DOUBLE CROSS-HATCHED
AREA QUIT CLAIMED
O.R. BOOK 6394, PAGE 1869

DOUBLE CROSS-HATCHED
AREA QUIT CLAIMED
O.R.B. 6522, PAGES 1203 & 1204

8.288m
(60.00')

·83.71
18.288m

·85.28
40.234m

·17.584
40.234m

·92.304
20.726m

EXIST. R/W

2.3m CHAIN LINK FENCE

MAINT. R/W

72

73

·00.000
11.000m(F)

·97.937
10.077m(C)

·20.302
20.726m

·25.944
10.058m

·62.571
10.647m(C)

·01.632
10.073m(C)

·93.94
18.288m

1.4m WOOD FENCE

·75.00
18.288m

EXIST. R/W

S 58°53'51"E (GRID)
℄ SURVEY S.R. 10-A

STA. 73+72.568 (℄ SURVEY S.R. 10-A) =
STA. 10+00.000 ℄ DOOLEY DRIVE)

74

10.058m
(33.00')

·00.000
11.000m(F)

·82.688
10.837m(C)

1.4m WOOD FENCE

90°19'45" (F)

10.058m
(33.00')

10.058m
(33.00')

℄ DOOLEY DRIVE

EXIST. R/W

EXIST. R/W

9

7.620m
(25.00')

7.620m
(25.00')

562.41.10(F) S 03°13'35" W (1845.18')

Fnd. R.R. SPIKE (NO I.D.)
MARKING THE EAST QUARTER
CORNER OF SECTION 18, T-1-S,
R-31-W

SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

# MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY _____ DATE 10-25-01
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE |
|---|---|---|
| ADD ADDITIONAL REC. DATA | J.L.B. | 3-15-11 |
| ADD DOUBLE CROSS-HATCH G.C. REC. DATA | J.L.B. | 11-3-09 |
| ADD DOUBLE CROSS-HATCH G.C. | J.L.B. | 9-3-09 |
| ADD DOUBLE CROSS-HATCH G.C. REC. DATA | J.L.B. | 8-13-09 |
| ADD DOUBLE CROSS-HATCH G.C. | J.L.B. | 10-7-08 |
| REV. EXIST.& MAINT.R/W | R.G.W. | 10-15-07 |
| ADD CROSS-HATCH | | |

| | BY | DATE |
|---|---|---|
| PRELIM | E.E.W. | 08-23-01 |
| FINAL | E.E.W. | 08-28-01 |
| CHECKED | W.L.E. | 08-27-01 |

F.A.P. NO. N/A

STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY

MAPS PREPARED BY:
GENESIS GROUP
2507 CALLAWAY ROAD, SUITE 100
TALLAHASSEE, FL. 32303

FIELD BOOK NO.'S
20040019, 20040020, 20040022, 20040038
20040056, 20421043, 20421051, 20421059
20421060, 20421069

W.P.I. NO. 3112056

SCALE: 1:1000

F.P. NO. 2186801

SHEET 9 OF 22

STATE ROAD 10A (US90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

SEC. 17, T-1-S, R-31-W

METRIC

50 40 30 20 10 0 50

GRAPHIC SCALE 1:1000

SET 16mm I.R.C. LB 6816
MARKING THE NORTH
QUARTER CORNER OF SECTION 17,
T-1-S, R-31-W

678.59m(C) N 03°15'29" E (2226.35')

STA. 80+25.695

STA. 79+64.152 (℄ SURVEY S.R. 10-A) =
STA. 10+00.000 (℄ THOMLEY TRAIL)

62°09'26" (F)

EXIST. R/W

EXIST. R/W

74 75 76 77 78 79 80 81 82

10.058m (33.00') EXIST. R/W

+52.672
20.726m

+74.748
10.058m

+37.068
20.726m

+58.270
10.058m

+72.949
20.726m

+42.488
10.058m

I.7m CHAIN LINK FENCE

+55.024
10.500m(F)

+00.000
11.000m(F)

+76.073
10.307m(F)

+29.611
10.851m(C)

+00.000
11.000m(F)

+45.152
40.233m

+81.105
10.499m(C)

+00.000
10.500m(F)

+00.000
10.058m(F)

S 58°53'57" E (GRID)
℄ SURVEY S.R. 10-A

+00.000
10.500m(F)

+00.000
10.500m(F)

+00.000
11.500m(F)

+00.000
11.000m(F)

20.726m (68.00')

I.7m CHAIN LINK FENCE

MAINT. R/W

I.7m CHAIN LINK FENCE

I.7m CHAIN LINK FENCE

MAINT. R/W

MAINT. R/W

+86.440
40.233m

EXIST. R/W

90°05'19" (F)

+73.312
10.500m(F)

10

9

℄ THOMLEY TRAIL

EXIST. R/W

EXIST. R/W

9.144m
(30.00')

9.144m
(30.00')

128.50m(C) N 03°15'29" E (421.62')

S 87°11'11" E 239.782m(C) (786.68')

807.027m(C) N 03°15'29" E (2647.72')

S 87°11'11" E 809.301m(C) (2655.18')

Fnd R.R. SPIKE (NO I.D.)
MARKING THE WEST
QUARTER CORNER OF
SECTION 17, T-1-S, R-31-W

Fnd. 16mm I.R.C. (NO I.D.)
MARKING THE SOUTH
QUARTER CORNER OF SECTION 17,
T-1-S, R-31-W

SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

# MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY R.Y. Wood DATE 10-25-01
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|
| | | | | | |

| | BY | DATE |
|---|---|---|
| PRELIM | E.E.W. | 08-23-01 |
| FINAL | E.E.W. | 08-28-01 |
| CHECKED | W.L.E. | 08-27-01 |

F.A.P. NO. N/A

STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY

MAPS PREPARED BY:
GENESIS GROUP
2507 CALLAWAY ROAD, SUITE 100
TALLAHASSEE, FL. 32303

FIELD BOOK NO.'S
20040019, 20040020, 20040022, 20040038
20040056, 20421041, 20421051, 20421059
20421060, 20421969

W.P.I. NO. 3112056

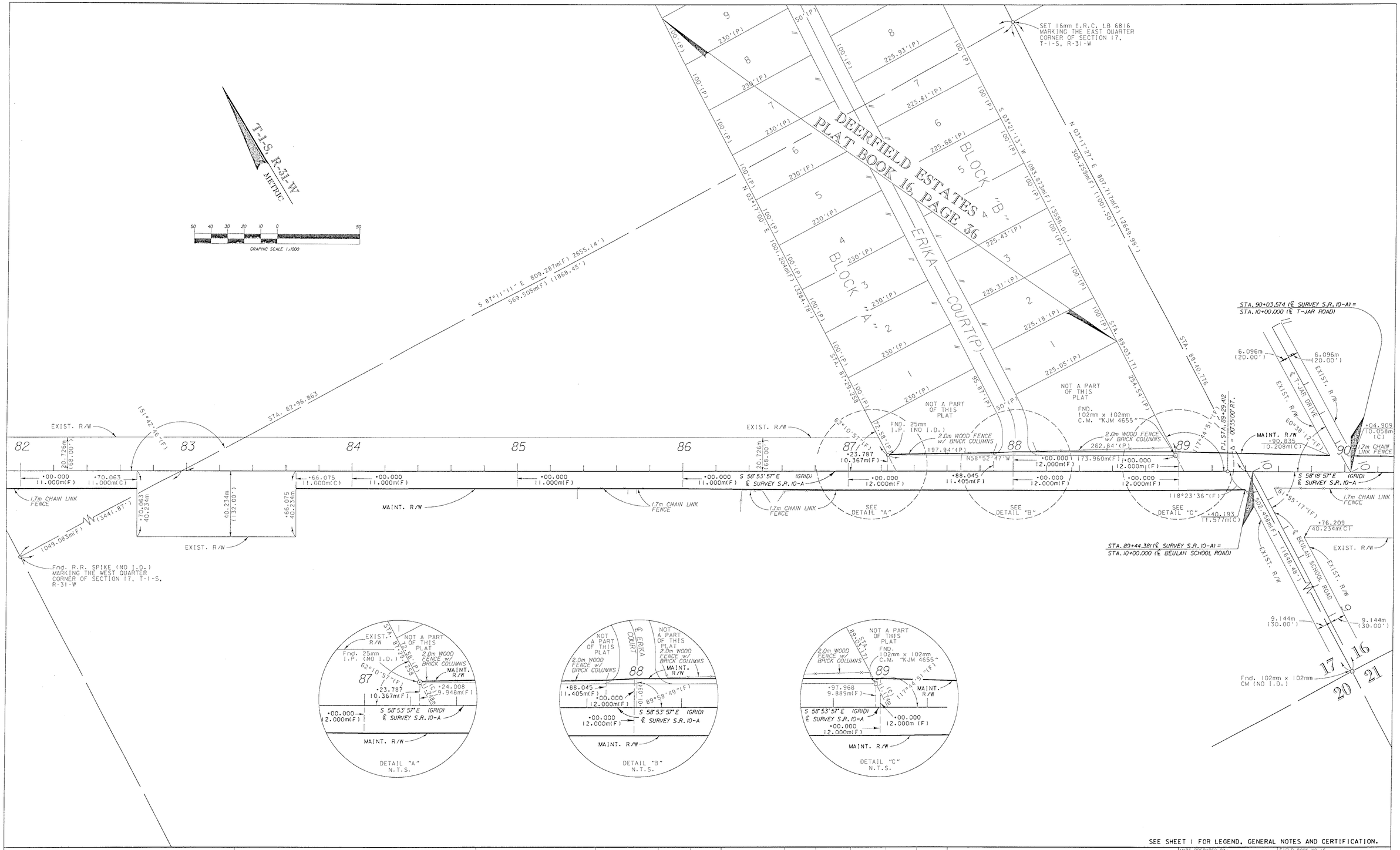
SCALE: 1:1000

F.P. NO. 2186801

SHEET 10 OF 22

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

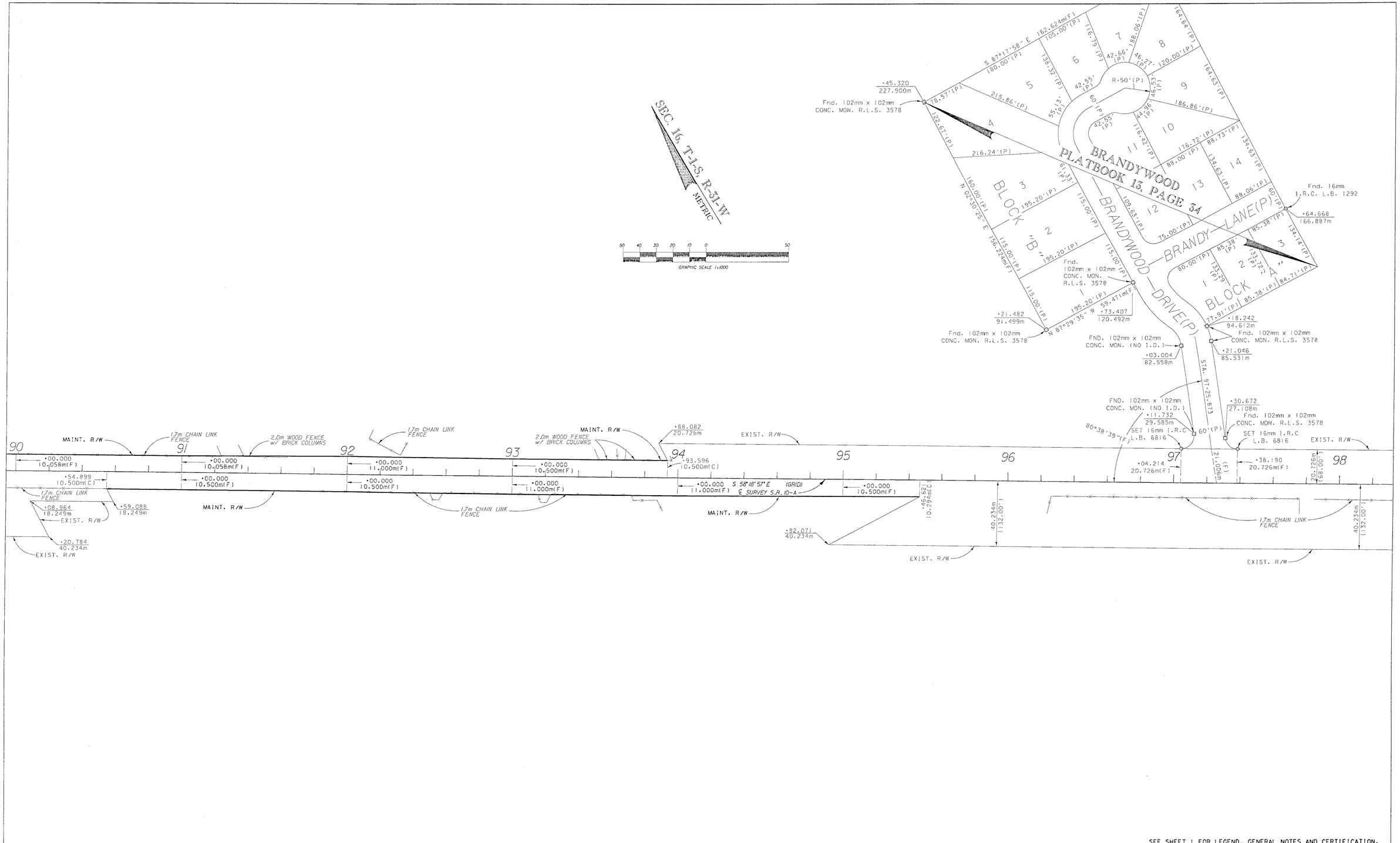
RECORDED IN PLAT BOOK 17 PAGE 4
RECORDED BY RAMBER




SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. G. Hood DATE 10-25-01<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | PRELIM | E.E.W. | 08-23-01 | F.A.P. NO. N/A | MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303 | FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038 20040056, 20421043, 20421051, 20421059 20421060, 20421069 |
| | | | | | | | | | FINAL | E.E.W. | 08-28-01 | STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY | W.P.I. NO. 3112056 | SCALE: 1:1000 |
| | | | | | | | | | CHECKED | W.L.E. | 08-27-01 | | F.P. NO. 2186801 | SHEET 11 OF 22 |

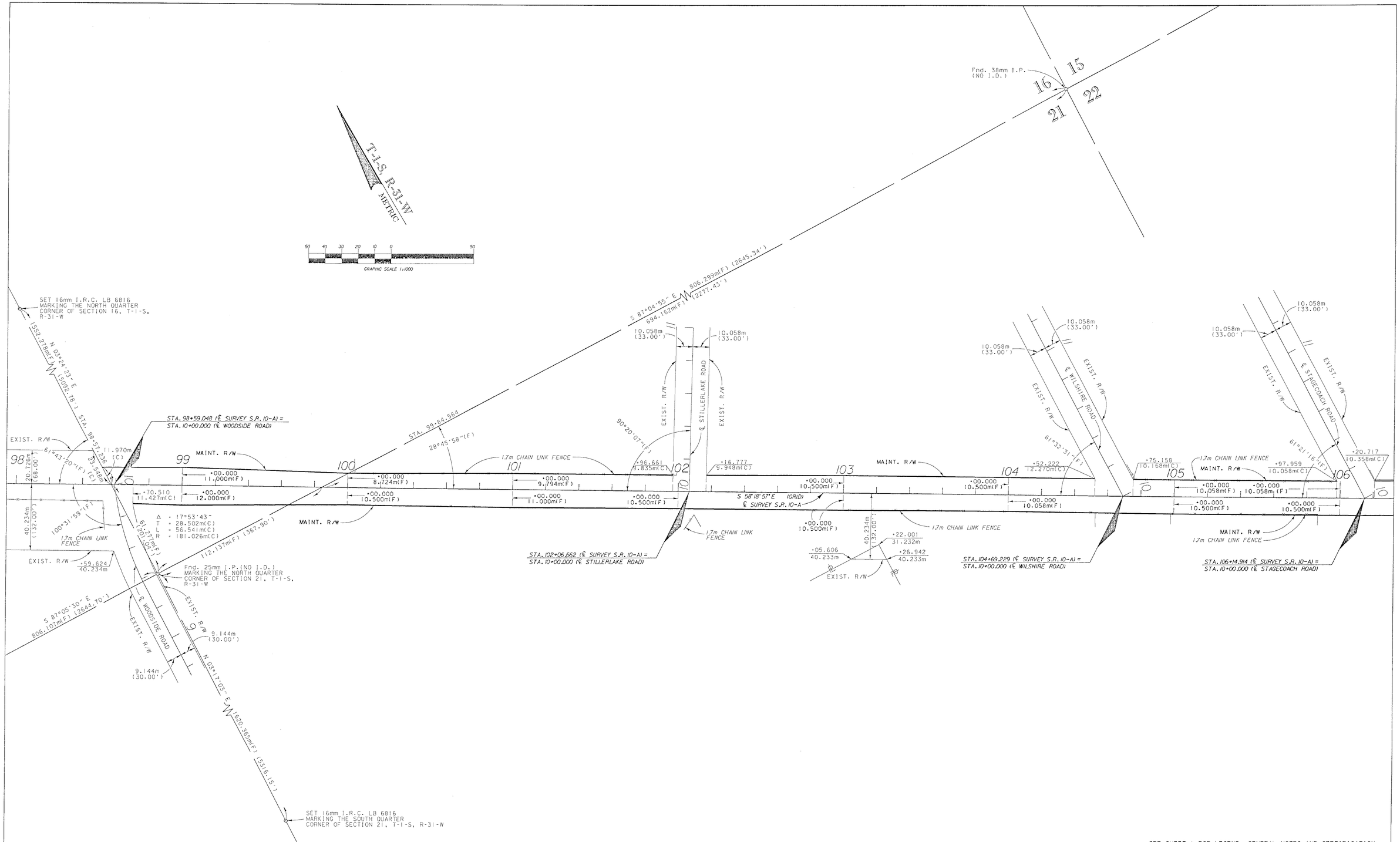
STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE




SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. H. Wood DATE 10-25-01<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A.P. NO. N/A | MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303 | FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038 20040056, 20421043, 20421051, 20421059 20421060, 20421069 |
| | | | | | | | | | PRELIM | E.E.W. | 08-23-01 | | | |
| | | | | | | | | | FINAL | E.E.W. | 08-28-01 | | W.P.I. NO. 3112056 | SCALE: 1:1000 |
| | | | | | | | | | CHECKED | W.L.E. | 08-27-01 | STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY | F.P. NO. 2186801 | SHEET 12 OF 22 |

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE




SEE SHEET 1 FOR LEGEND, GENERAL NOTES AND CERTIFICATION.

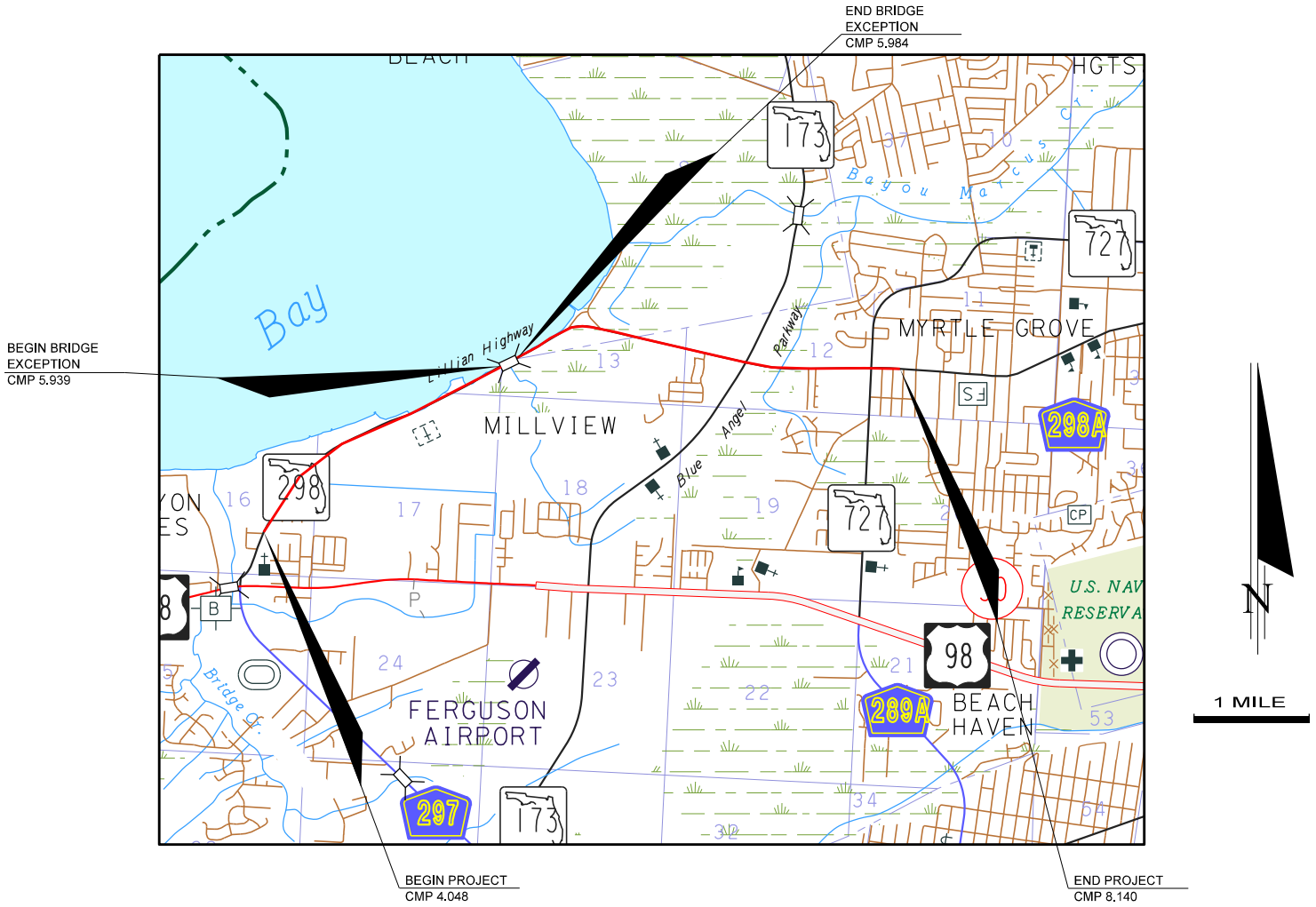
| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R.G. Hood DATE 10-25-01<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A.P. NO. N/A | MAPS PREPARED BY: GENESIS GROUP 2507 CALLAWAY ROAD, SUITE 100 TALLAHASSEE, FL. 32303 | FIELD BOOK NO.'S 20040019, 20040020, 20040022, 20040038 20040056, 20421043, 20421051, 20421059 20421060, 20421069 |
| | | | | | | | | | PRELIM | E.E.W. | 08-23-01 | | | |
| | | | | | | | | | FINAL | E.E.W. | 08-28-01 | | W.P.I. NO. 3112056 | SCALE: 1:1000 |
| | | | | | | | | | CHECKED | W.L.E. | 08-27-01 | STATE ROAD NO. 10-A (U.S. 90) ESCAMBIA COUNTY | F.P. NO. 2186801 | SHEET 13 OF 22 |

STATE ROAD 10A (US 90) FROM STATE ROAD 10 (US 90A) TO BEGIN FOUR LANE AT GODWIN LANE

# Escambia County
# Resurfacing, Rehabilitation, Restoration (RRR) Project

SR 298 (Lillian Highway)
From North of SR 30 (US 98) to East of SR 727 (Fairfield Drive)

FPID: 443651-1
Section No.: 48110000




# PROJECT LOCATION MAP

| | 5 YR INV | SLD REV | BMP | EMP | INV | SLD REV |
|---|---|---|---|---|---|---|
| DATE | 11/11/2015 | 12/04/2015 | 1.327 | 10.596 | 09/07/2016 METRIC | 12/01/2016 METRIC |
| BY | SSMC | SSMC | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION

# STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

| SECTION STATUS | INT. or US ROUTE NO. | STATE ROAD NO. | COUNTY | DISTRICT | ROADWAY ID | SHEET NO: |
|---|---|---|---|---|---|---|
| 02 | US 98 | SR 30/SR 298 | ESCAMBIA | 03 | 48110000 | 1 OF 3 |

1.0 2.0

**ROADWAY FEATURES**

SECTION BEGINS: MID OF PERD BAY BR (0.388)

INSIDE URBAN, OUTSIDE CITY
* PENSACOLA
*|<=LILLIAN HWY
*|<SR 30/SR 298
*|<US 98

MID OF PERD BAY BR 0.388 | BAY | PERDIDO | PARADISE BEACH CIR 0.876 | PARADISE LN 0.865 | PERDIDO MANOR DR 0.920 | 0325 0.991 | PARADISE BEACH CIR 1.027 | SPANISH MOSS DR 1.131 | SPANISH MOSS DR 1.151 | CORDOVA RD 1.251 | TRACY RD 1.369 | JOCELIN RD 1.491 | TROUT RD 1.746 | BRONSON RD 2.006 | JUAN RD 2.121 | JOAQUIN RD 2.236 | 2.236 | CR-293/ BAUER RD 2.355 | HALCYON CIR 2.374

293

**LANE WIDTHS ARE AVERAGED**

0.388 46.0' - 24.0'
2 - 12.0' RDWY
2 - 5.0' PVD SHLD1
2 - 6.0' LWN SHLD2

2.331 40.0' - 24.0'
2 - 12.0' RDWY
12.0 PVD MED
2 - 2.0' C&G SHLD1

**ROADWAY COMPOSITION**

0.388 28/FC-6 | 2.331 28/FC-6
28/FC-6

**HORIZONTAL ALIGNMENT**

CURVE DATA NOT FIELD VERIFIED

PC=0.700
PI=0.779
PT=0.858
Δ=6°00'00.00"
D=0°43'00 00

Δ=39°00'00.00"
D=6°22'00 00
PC=1.132
PI=1.190
PT=1.248

**STRUCTURE DESCRIPTION**

0.388 #0140 2053.9' BR 0.777

1.327 1 - 18" X 64' CC

1.502 1 - 16" X 60' CC

1.800 1 - 36" X 96' CC

**DISTRICT USE**

**SIS**

**FUN CLASS**

0.388 URBAN PRIN ART OTHER

3.0 4.0

**ROADWAY FEATURES**

2.388 INSIDE URBAN, OUTSIDE CITY
* PENSACOLA
*|<=LILLIAN HWY
*|<SR 30/SR 298
*|<US 98

SHOPPING CENTER LENT 2.409 | CROWN POINTE 2.547 | CROWN POINTE 2.645 | HALCYON CIR 2.664 | MIRAMAR DR 2.734 | CROWN POINTE BLVD 3.106 | LITTLE CREEK LN 3.241 | WILD HERON WAY 3.666 | 3.739 | NIX RD 3.808 | 0155 3.844 | RIOLA PL 3.845 | BAYOU | HERRON 3.971 CR-297/DOG TRACK RD | 3.971 US-98/SR-30 | 0203 4.085 | HERRON VILLA LN 4.196

297 98 30

ASSOCIATED STATION EXCEPTION
SEE ROADWAY ID: 48280000
MP 0.000 TO MP 0.232

**LANE WIDTHS ARE AVERAGED**

2.388 40.0' - 24.0'
2 - 12.0' RDWY
12.0 PVD MED
2 - 2.0' C&G SHLD1

2.547 46.0' - 24.0'
2 - 12.0' RDWY
2 - 5.0' PVD SHLD1
2 - 6.0' LWN SHLD2

2.977 60.0' - 24.0'
2 - 12.0' RDWY
14.0 PVD MED
2 - 5.0' PVD SHLD1
2 - 6.0' LWN SHLD2

3.303 58.0' - 24.0'
2 - 12.0' RDWY
12.0 PVD MED
2 - 5.0' PVD SHLD1
2 - 6.0' LWN SHLD2

3.433 46.0' - 24.0'
2 - 12.0' RDWY
2 - 5.0' PVD SHLD1
2 - 6.0' LWN SHLD2

3.603 58.0' - 24.0'
2 - 12.0' RDWY
12.0 PVD MED
2 - 5.0' PVD SHLD1
2 - 6.0' LWN SHLD2

3.971 57.0' - 24.0'
2 - 12.0' RDWY
11.0 PVD MED
2 - 5.0' PVD SHLD1
2 - 6.0' LWN SHLD2

4.038 36.0' - 20.0'
2 - 10.0' RDWY
2 - 2.0' PVD SHLD1
2 - 6.0' LWN SHLD2

**ROADWAY COMPOSITION**

2.388 28/FC-6 | 2.547 28/FC-6 | 2.977 28/FC-6 | 3.433 28/FC-6 | 3.603 28/FC-6 | 4.038 28/FC-6
28/FC-6 28/FC-6 28/FC-6

**HORIZONTAL ALIGNMENT**

CURVE DATA NOT FIELD VERIFIED

Δ=17°00'00.00"
D=2°16'00.00
PC=2.548
PI=2.620
PT=2.690

Δ=90°00'00.00"
PI=3.971

Δ=46°00'00.00"
D=8°09'00.00
PC=4.031
PI=4.075
PT=4.138

PC=4.279
PI=4.345
PT=4.390
Δ=16°00'00.00"
D=2°44'00.00

**STRUCTURE DESCRIPTION**

3.090 1 - 2'X 2'X 66' CBC

3.907 #0016 200.6' BR 3.945

4.332 3 - 68" X 42" X 98' CC

4.374 1 - 2'X 3'X 34' CBC

**DISTRICT USE**

**SIS**

**FUN CLASS**

2.388 URBAN PRIN ART OTHER

3.971 URBAN MINOR ART

Version: 1.4.2.25 12/01/2016

| | 5 YR INV | SLD REV |
|---|---|---|
| DATE | 11/11/2015 | 12/04/2015 |
| BY | SSMC | SSMC |

| BMP | EMP | INV | SLD REV |
|---|---|---|---|
| 1.327 | 10.596 | 09/07/2016 METRIC | 12/01/2016 METRIC |
| | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION

# STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

| SECTION STATUS | INT. or US ROUTE NO. | STATE ROAD NO. | COUNTY | DISTRICT | ROADWAY ID | SHEET NO: |
|---|---|---|---|---|---|---|
| 02 | US 98 | SR 30/SR 298 | ESCAMBIA | 03 | 48110000 | 2 OF 3 |

5.0 6.0

**ROADWAY FEATURES**

4.388 INSIDE URBAN, OUTSIDE CITY
* PENSACOLA
*|<=LILLIAN HWY
*|<SR 298

4.412 JOLYNE DR

LAZY ACRES ST 4.655

BAYOU MILLVIEW

SAN SABASTIAN CIR 6.310

**LANE WIDTHS ARE AVERAGED**

4.388 36.0' - 20.0'
2 - 10.0' RDWY
2 - 2.0' PVD SHLD1
2 - 6.0' LWN SHLD2

5.831 44.0' - 20.0'
2 - 10.0' RDWY
2 - 4.0' PVD SHLD1
2 - 8.0' LWN SHLD2

6.113 40.0' - 20.0'
2 - 10.0' RDWY
2 - 2.0' PVD SHLD1
2 - 8.0' LWN SHLD2

6.260 42.0' - 22.0'
2 - 11.0' RDWY
9.0' PVD SHLD1 - LT
5.0' PVD SHLD1 - RT
6.0' LWN SHLD2 - RT

**ROADWAY COMPOSITION**

4.388 28/FC-6

**HORIZONTAL ALIGNMENT**

CURVE DATA NOT FIELD VERIFIED

PC=4.740
PI=4.850
PT=4.961
Δ=27°00'00.00"
D=2°19'00 00

PC=5.198
PI=5.265
PT=5.330
Δ=10°00'00.00"
D=1°26'00 00

Δ=13°00'00.00"
D=1°44'00 00
PC=5.330
PI=5.390
PT=5.472

Δ=5°00'00.00"
D=0°01'00 00
PC=5.680
PI=5.740
PT=5.790

PC=5.899
PI=5.971
PT=6.042
Δ=9°34'10.00"
D=1°16'00 00

Δ=9°08'45.00"
D=2°30'00 00
PC=6.042
PI=6.077
PT=6.111

PC=6.310
PI=6.400
PT=6.479
Δ=41°00'00.00"
D=4°36'00 00

**STRUCTURE DESCRIPTION**

4.601 1 - 4'X 3'X 32' CBC

5.021 2 - 36"X 34' CMP

5.050 1 - 2'X 2'X 34' CBC

5.211 1 - 2'X 2'X 34' CBC

5.939 #0022 5.984
237.6'
BR

**DISTRICT USE**

**SIS**

**FUN CLASS**

4.388 URBAN MINOR ART

7.0 8.0

**ROADWAY FEATURES**

6.388 INSIDE URBAN, OUTSIDE CITY
* PENSACOLA
*|<=LILLIAN HWY
*|<SR 298

6.495 LA PAZ ST

ROEBLING TR 7.079

SR-173/ S BLUE ANGEL 7.306

BAYOU MARCUS BRANCH

STAFFORD LN 7.651

CARONDELAY DR 7.690

4016 7.762

ESCONDITAS PL 7.902

SR-727/ FAIRFIELD DR 7.989

SHOPPING CENTER ENT 8.053

5148 8.214

N 77TH AVE 8.233

N 75TH AVE 8.381

N 80TH AVE 8.053

N 79TH AVE 8.109

N 78TH AVE 8.167

77TH AVE 8.233

N 75TH AVE 8.365

**LANE WIDTHS ARE AVERAGED**

6.388 42.0' - 22.0'
2 - 11.0' RDWY
9.0' PVD SHLD1 - LT
5.0' PVD SHLD1 - RT
6.0' LWN SHLD2 - RT

6.495 32.0' - 20.0'
2 - 10.0' RDWY
2 - 2.0' PVD SHLD1
2 - 4.0' LWN SHLD2

6.982 50.0' - 12.0'L+10.0'R
1 - 12.0'L + 1 - 10.0'R RDWY
12.0 PVD MED
2 - 2.0' PVD SHLD1
2 - 6.0' LWN SHLD2

7.306 49.0' - 22.0'
2 - 11.0' RDWY
11.0 PVD MED
2 - 2.0' PVD SHLD1
2 - 6.0' LWN SHLD2

7.534 36.0' - 20.0'
2 - 10.0' RDWY
2 - 2.0' PVD SHLD1
2 - 6.0' LWN SHLD2

7.856 44.0' - 28.0'
2 - 14.0' RDWY
12.0 PVD MED
2 - 2.0' C&G SHLD1

7.989 50.0' - 24.0'
2 - 12.0' RDWY
12.0 PVD MED
2 - 2.0' PVD SHLD1
2 - 5.0' LWN SHLD2

8.132 48.0' - 24.0'
2 - 12.0' RDWY
2 - 5.0' PVD SHLD1
2 - 7.0' LWN SHLD2

**ROADWAY COMPOSITION**

6.388 28/FC-6

6.982 28/FC-6
28/FC-6

7.534 28/FC-6

7.856 28/FC-6
28/FC-6

8.132 28/FC-6

**HORIZONTAL ALIGNMENT**

CURVE DATA NOT FIELD VERIFIED

Δ=13°00'00.00"
D=2°14'00 00
PC=7.420
PI=7.490
PT=7.530

PC=8.050
PI=8.110
PT=8.163
Δ=9°00'00.00"
D=1°31'00 00

**STRUCTURE DESCRIPTION**

6.739 2 - 18" X 34' CIP

7.587 #0127 7.591
21.1'
CB

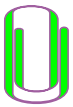
**DISTRICT USE**

**SIS**

**FUN CLASS**

6.388 URBAN MINOR ART

Version: 1.4.2.25 12/01/2016



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          CCC             AAA     AAA      RRR      RRR
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```

C R A S H  R E P O R T I N G  S Y S T E M

N O T I C E: THE INFORMATION CONTAINED IN THIS DOCUMENT (REPORT, SCHEDULE, LIST, OR DATA) HAS BEEN COMPILED FROM INFORMATION COLLECTED FOR THE PURPOSE OF IDENTIFYING, EVALUATING, OR PLANNING SAFETY ENHANCEMENTS. THIS PRODUCT IDENTIFIES INFORMATION USED FOR THE PURPOSE OF DEVELOPING HIGHWAY SAFETY CONSTRUCTION IMPROVEMENT PROJECTS WHICH MAY BE IMPLEMENTED UTILIZING FEDERAL-AID HIGHWAY FUNDS. ANY DOCUMENT DISPLAYING THIS NOTICE SHALL BE USED ONLY FOR THOSE PURPOSES DEEMED APPROPRIATE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. SEE TITLE 23, UNITED STATES CODE, SECTION 409.

```
I/O NAME: ...............  CARI122
PROGRAM ID: .............  CARPJ122
REPORT NUMBER: ..........  01
RUN CLASS: ..............  A
MESSAGE CLASS: ..........  Q
PRINTER DEST: ...........  LOCAL
# COPIES: ...............  01
ACCOUNT #: ..............  5565945
SUBMIT W/HOLD? ..........  N
USERID: .................  KNAKNGH
DETAIL SORT ORDER: ......  1 - SORT BY ROADWAY, MILE POINT
PRINT SEGMENTS? .........  N
PRINT INTERSECTIONS? ....  N
SUMMARY FORMAT: .........  2 - TOP LINE ALL BREAKS
OVERRIDE VALUES:
 MAX # OF BREAKS: .......  06
 CRASH RATE CATEGORY: ...
 AVERAGE DAILY TRAFFIC:..
 # OF LEGS: .............
```

REPORT...CARPJ122-01 FLORIDA - DEPARTMENT OF TRANSPORTATION PAGE NO: 1
DATE...02/06/2019 C A R - CRASH ANALYSIS REPORTING SYSTEM USERID: KNAKNGH
TIME...14:41:47 CRASH DATA (IN 2011 AND LATER) DETAIL FOR STATE-MAINTAINED ROADS I/O.... CARO213

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2012 TO 12/31/2016 RAMPS INCL
FROM CO/SEC/SUB: 48 110 000 MP: 003.971 INFL INCL
TO CO/SEC/SUB: 48 110 000 MP: 008.140 CR/OS INCL

| C R N A U S M H B E R | ROADWYID C S T I O N O E C T I O T | M I L E A G E | N E N A O R D E E S T | S T R A D | ADT VAR EIA RLF AYF G I E C | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE Y | A L C | H AE RV ME FN EO TD UT RL IT NN GS | MO AF NC HN TO HD RL L NN GS | L IC GO TN HD ET L NN RN S | W EC AO U R F S | R D OC AO D N T | DL OO TC A D ST II EN | R O A L I S D OT YP E R1 | A C N R | V 1 D B P E DY C | V 1 SC E DI RO IN V R1 | VF 1U 1A N T M | VM 1A 1C N T R | VA 1C 1A G M F | V 2 DE R I R | V 2N OD DE /S C | V 2N B UL NO CC / | V M F MP VI TT /R | VN 2M NR RO 1N /1 | VN 2M AA CC | N M C T N 2 | V 2N RA AG GE E | # # # H L L R S D | I N J U R D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 853324270Y48004000 | 02.972 0575 | 727 | 014500 | 16 | 06 | 28 | 13 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 01 | R | 1 | E | 02 | 01 | 01 | 02 | 32 | E | 03 | 01 | 13 | 01 | | 48 | 2 | 0 | 04 |
| 853698260Y48004000 | 02.972 0575 | 727 | 014500 | 16 | 08 | 18 | 15 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | 1 | N | 08 | 13 | 01 | 02 | 41 | N | 01 | 01 | 13 | 01 | | 59 | 3 | 0 | 06 |
| 836857490Y48004000 | 02.982 0575 | 727 | 013000 | 13 | 10 | 14 | 14 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | M | M | E | 01 | 01 | 01 | 03 | 73 | N | 01 | 01 | 01 | | | 00 | 2 | 0 | 00 |
| 838344460Y48004000 | 02.991 0575 | 727 | 015000 | 14 | 08 | 06 | 09 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | 1 | N | 01 | 01 | 01 | 02 | 25 | N | 01 | 01 | 13 | 01 | | 19 | 3 | 0 | 00 |
| 845569100Y48004000 | 02.991 0575 | 727 | 015000 | 14 | 12 | 31 | 16 | S-2DP | 0 | 14 | 01 | 02 | 02 | 01 | 01 | 01 | R | 1 | N | 16 | 01 | 01 | 02 | 26 | N | 16 | 01 | 13 | 01 | | 40 | 3 | 0 | 00 |
| 853118800Y48004000 | 02.995 0575 | 727 | 014500 | 16 | 05 | 11 | 14 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | 1 | N | 00 | 01 | 01 | | 00 | N | 03 | 01 | 13 | 01 | | 29 | 4 | 0 | 00 |
| 852737570Y48004000 | 02.996 0575 | 727 | 014500 | 16 | 03 | 25 | 14 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 03 | R | L | W | 01 | 01 | 01 | 02 | 42 | N | 01 | 01 | 01 | 01 | | 28 | 2 | 0 | 03 |
| 836506610 48004000 | 03.001 0575 | 727 | 013000 | 13 | 07 | 07 | 18 | S-2DP | 0 | 14 | 01 | 01 | 02 | 02 | 01 | 02 | R | 1 | N | 01 | 01 | 01 | 02 | 23 | N | 01 | 01 | 14 | 01 | | 39 | 2 | 0 | 01 |
| 853976140Y48004000 | 03.002 0575 | 727 | 014500 | 16 | 09 | 27 | 21 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 03 | R | 1 | N | 01 | 01 | 01 | | 00 | N | 01 | 01 | 13 | 01 | | 50 | 2 | 0 | 00 |
| 845707610 48004000 | 03.005 0575 | 727 | 013500 | 15 | 01 | 22 | 19 | S-2DP | 0 | 14 | 01 | 02 | 01 | 01 | 01 | 02 | R | 1 | N | 01 | 01 | 01 | 02 | 20 | N | 16 | 01 | 13 | 01 | | 22 | 3 | 0 | 00 |
| 852931480Y48004000 | 03.005 0575 | 727 | 014500 | 16 | 03 | 15 | 21 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 03 | R | 1 | N | 03 | 01 | 01 | | 00 | N | 03 | 01 | 01 | 01 | | 28 | 2 | 0 | 00 |
| 838337370 48004000 | 03.007 0575 | 727 | 015000 | 14 | 07 | 29 | 21 | S-2DP | 0 | 14 | 01 | 04 | 01 | 01 | 01 | 02 | R | L | N | 01 | 01 | 01 | 02 | 33 | N | 03 | 01 | 13 | 01 | | 59 | 2 | 0 | 00 |
| 852737670Y48004000 | 03.007 0575 | 727 | 014500 | 16 | 03 | 27 | 19 | S-2DP | 0 | 14 | 88 | 05 | 02 | 02 | 01 | 03 | R | 1 | 0 | 00 | 01 | 00 | | 00 | N | 01 | 01 | 13 | 01 | | 57 | 2 | 0 | 00 |
| 828667730 48004000 | 03.008 0575 | 727 | 013500 | 12 | 02 | 03 | 03 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 02 | R | 1 | N | 00 | 01 | 01 | | 00 | N | 01 | 01 | 13 | 01 | | 64 | 2 | 0 | 00 |
| 832748890 48004000 | 03.008 0575 | 727 | 013000 | 13 | 03 | 06 | 15 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | L | N | 16 | 01 | 01 | 02 | 58 | N | 16 | 01 | 13 | 01 | | 48 | 2 | 0 | 01 |
| 829027390 48004000 | 03.010 0575 | 727 | 013500 | 12 | 05 | 13 | 18 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 01 | 11 | 21 | E | 01 | 01 | 01 | 01 | | 42 | 2 | 0 | 01 |
| 833130250 48004000 | 03.010 0575 | 727 | 013000 | 13 | 05 | 28 | 10 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | L | 1 | S | 02 | 01 | 01 | 11 | 73 | W | 16 | 01 | 01 | 01 | | 48 | 2 | 0 | 01 |
| 836692600 48004000 | 03.010 0575 | 727 | 013000 | 13 | 08 | 25 | 13 | S-2DP | 0 | 14 | 77 | 01 | 02 | 02 | 10 | 02 | L | 1 | N | 02 | 01 | 01 | 25 | 33 | S | 01 | 01 | 01 | 01 | | 52 | 3 | 0 | 04 |
| 837824040 48004000 | 03.010 0575 | 727 | 015000 | 14 | 05 | 18 | 20 | S-2DP | 0 | 14 | 05 | 05 | 01 | 01 | 01 | 02 | R | 1 | W | 00 | 01 | 05 | | 00 | S | 02 | 01 | 03 | 01 | | 32 | 2 | 0 | 00 |
| 837955330 48004000 | 03.010 0575 | 727 | 015000 | 14 | 11 | 14 | 02 | S-2DP | 0 | 33 | 77 | 04 | 01 | 01 | 01 | 02 | L | 1 | N | 01 | 01 | 03 | 01 | 27 | | | | | | | | 1 | 0 | 00 |
| 845542290 48004000 | 03.010 0575 | 727 | 013500 | 15 | 03 | 10 | 14 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | R | R | E | 02 | 01 | 05 | 03 | 50 | S | 03 | 01 | 01 | 01 | | 57 | 2 | 0 | 00 |
| 851282800 48004000 | 03.010 0575 | 727 | 013500 | 15 | 08 | 24 | 06 | S-2DP | 0 | 14 | 02 | 01 | 01 | 01 | 01 | 02 | L | 1 | N | 03 | 01 | 03 | 03 | 54 | S | 01 | 01 | 01 | 01 | | 48 | 2 | 0 | 02 |
| 852288500 48004000 | 03.010 0575 | 727 | 013500 | 15 | 12 | 21 | 12 | S-2DP | 0 | 14 | 03 | 01 | 02 | 02 | 01 | 02 | R | 1 | N | 03 | 01 | 01 | 11 | 72 | W | 01 | 01 | 03 | 01 | | 67 | 2 | 0 | 02 |
| 852786930 48004000 | 03.010 0575 | 727 | 014500 | 16 | 02 | 28 | 14 | S-2DP | 0 | 14 | 77 | 01 | 01 | 01 | 01 | 02 | I | M | E | 01 | 01 | 01 | 01 | 24 | N | 01 | 01 | 01 | 01 | | 24 | 2 | 0 | 00 |
| 852752670 48004000 | 03.010 0575 | 727 | 014500 | 16 | 03 | 10 | 08 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | I | M | S | 16 | 01 | 05 | 03 | 95 | W | 01 | 01 | 01 | 01 | | 54 | 2 | 0 | 00 |
| 853341530 48004000 | 03.010 0575 | 727 | 014500 | 16 | 05 | 25 | 20 | S-2DP | 0 | 09 | 77 | 05 | 01 | 01 | 01 | 02 | I | M | S | 03 | 01 | 03 | 01 | 55 | | | | | | | | 1 | 0 | 01 |
| 854165240 48004000 | 03.010 0575 | 727 | 014500 | 16 | 10 | 17 | 11 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 03 | 01 | 74 | S | 03 | 01 | 01 | 01 | | 73 | 2 | 0 | 00 |
| 844951260 48004000 | 03.012 0575 | 727 | 015500 | 14 | 08 | 23 | 21 | S-2DP | 0 | 14 | 01 | 04 | 01 | 01 | 01 | 02 | L | 1 | S | 00 | 01 | 01 | | 00 | S | 11 | 01 | 13 | 01 | | 25 | 2 | 0 | 01 |
| 853429820Y48004000 | 03.012 0575 | 727 | 015500 | 16 | 07 | 04 | 03 | S-2DP | 0 | 14 | 01 | 04 | 02 | 02 | 01 | 03 | L | 1 | S | 01 | 01 | 01 | | 00 | S | 01 | 01 | 13 | 01 | | 36 | 2 | 0 | 00 |
| 854009140Y48004000 | 03.014 0575 | 727 | 015500 | 16 | 11 | 17 | 22 | S-2DP | 3 | 14 | 01 | 04 | 01 | 01 | 01 | 03 | L | 1 | S | 01 | 01 | 01 | 02 | 36 | S | 01 | 01 | 13 | 01 | | 17 | 2 | 0 | 00 |
| 851901180 48004000 | 03.015 0575 | 727 | 015000 | 15 | 10 | 28 | 08 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 02 | 01 | 01 | 02 | 21 | S | 02 | 01 | 01 | 01 | | 27 | 2 | 0 | 00 |
| 837077380 48004000 | 03.016 0575 | 727 | 014500 | 13 | 12 | 14 | 14 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 01 | 02 | 31 | W | 02 | 01 | 13 | 01 | | 87 | 2 | 0 | 00 |
| 848812280 48004000 | 03.019 0575 | 727 | 015000 | 15 | 03 | 29 | 16 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 02 | 01 | 01 | | 00 | S | 01 | 01 | 13 | 01 | | 26 | 2 | 0 | 00 |
| 845482950 48004000 | 03.019 0575 | 727 | 015000 | 15 | 03 | 30 | 19 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | N | 01 | 01 | 01 | 02 | 34 | N | 16 | 01 | 13 | 01 | | 49 | 2 | 0 | 00 |
| 849008230Y48004000 | 03.024 0575 | 727 | 015000 | 15 | 06 | 18 | 20 | S-2DP | 0 | 10 | 77 | 05 | 01 | 01 | 01 | 03 | R | 1 | N | 02 | 01 | 01 | 01 | 82 | * | 01 | 77 | 01 | 05 | 09 | 45 | 1 | 0 | 01 |
| 836841700Y48004000 | 03.029 0575 | 727 | 014500 | 13 | 09 | 24 | 16 | S-2DP | 0 | 14 | 01 | 01 | 03 | 02 | 01 | 03 | L | 1 | S | 01 | 01 | 01 | 02 | 61 | S | 01 | 01 | 13 | 01 | | 19 | 3 | 0 | 01 |
| 837394500Y48004000 | 03.029 0575 | 727 | 015500 | 14 | 02 | 22 | 01 | S-2DP | 0 | 14 | 01 | 04 | 01 | 01 | 01 | 03 | L | 1 | S | 01 | 01 | 01 | | 00 | S | 01 | 01 | 13 | 01 | | 25 | 2 | 0 | 00 |

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2012 TO 12/31/2016 RAMPS INCL
FROM CO/SEC/SUB: 48 110 000 MP: 003.971 INFL INCL
TO CO/SEC/SUB: 48 110 000 MP: 008.140 CR/OS INCL

| C R N A U S M H B E R | ROADWY C S O E U C N T I Y O N | ID S E SC UT BI O T | M I L E P O | N EN AO RD EE S T | S TR AO TA ED | ADT VAR EIA RLF AYF G I E C | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE H SG Y | A L C | H AE RV ME FN I | MO AF N NC EO 1 | L IC GO HN TD GO | W EC AO TN HD S U | R D | R OC AO DN D T | DL OO TC A ST S | R O C A L I N | A 1 D OT R DY | V 1 P E C | VF 1U N P E | VM 1A N SC U | VA 1C T E V | V 1A G DI RO IN V | V 2 DE R I R | V 2N M OD DE C / | V 2N M B UL NO /S /R | V M F CC RO VI 1N /1 | VN 2M M MP TT NR | VN 2M M AA CC 1N | N M V AG GE 2 | V 2N M D C RA AG E | # # # E I L S | # # # K I N J U R D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 845107310Y | 48004000 | 03.029 | 0575 | 727 | 015500 | 14 | 11 | 21 | 18 | S-2DP | 0 | 14 | 01 | 04 | 01 | 01 | 01 | 03 | L | 1 | S | 01 | 01 | 01 | 02 | 48 | S | 16 | 01 | 13 | 01 | | 28 | 2 | 0 | 00 |
| 845542240Y | 48004000 | 03.029 | 0575 | 727 | 015000 | 15 | 02 | 27 | 19 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 03 | L | 1 | S | 01 | 01 | 01 | 02 | 48 | S | 16 | 01 | 13 | 01 | | 40 | 2 | 0 | 02 |
| 853681430Y | 48004000 | 03.029 | 0575 | 727 | 015500 | 16 | 07 | 28 | 21 | S-2DP | 0 | 10 | 77 | 05 | 01 | 01 | 01 | 01 | R | 1 | N | 16 | 01 | 01 | 01 | 30 | * | 01 | 05 | 01 | 02 | 03 | 13 | 1 | 0 | 01 |
| 852971630Y | 48004000 | 03.048 | 0905 | 727 | 015500 | 16 | 03 | 20 | 13 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | R | N | 02 | 01 | 03 | 03 | 41 | S | 01 | 01 | 01 | 01 | | 51 | 2 | 0 | 05 |
| 854059970Y | 48004000 | 03.057 | 0905 | 727 | 015500 | 16 | 11 | 29 | 16 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 01 | L | 1 | S | 01 | 01 | 01 | 01 | 18 | S | 16 | 01 | 01 | 01 | | 69 | 2 | 0 | 00 |
| 828928840 | 48110000 | 03.971 | 0569 | 30 | 018400 | 12 | 04 | 06 | 14 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | T | R | W | 01 | 01 | 01 | 02 | 35 | W | 01 | 01 | 13 | 01 | | 34 | 2 | 0 | 02 |
| 831590540 | 48110000 | 03.971 | 0569 | 30 | 018400 | 12 | 07 | 06 | 14 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | L | 1 | S | 03 | 01 | 01 | 02 | 52 | S | 01 | 01 | 13 | 01 | | 24 | 2 | 0 | 02 |
| 831931550Y | 48110000 | 03.971 | 0569 | 30 | 018400 | 12 | 09 | 20 | 06 | S-2DP | 0 | 32 | 77 | 03 | 01 | 01 | 01 | 01 | S | S | N | 16 | 01 | 01 | 01 | 27 | | | | | | | | 1 | 0 | 00 |
| 832476290 | 48110000 | 03.971 | 0569 | 30 | 018400 | 12 | 12 | 23 | 19 | S-2DP | 0 | 14 | 05 | 05 | 02 | 01 | 01 | 02 | I | M | S | 01 | 01 | 05 | 06 | 49 | E | 01 | 01 | 13 | 01 | | 79 | 2 | 0 | 00 |
| 832668110 | 48110000 | 03.971 | 0569 | 30 | 018100 | 13 | 01 | 15 | 17 | S-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | R | 1 | W | 16 | 01 | 03 | 03 | 49 | E | 03 | 01 | 01 | 01 | | 67 | 2 | 0 | 04 |
| 831509480 | 48110000 | 03.971 | 0569 | 30 | 018100 | 13 | 02 | 06 | 05 | S-2DP | 0 | 14 | 02 | 05 | 04 | 02 | 01 | 02 | L | 1 | E | 16 | 01 | 03 | 77 | 34 | W | 16 | 01 | 01 | 77 | | 25 | 2 | 0 | 01 |
| 832617290 | 48110000 | 03.971 | 0569 | 30 | 018100 | 13 | 03 | 19 | 20 | S-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | L | 1 | E | 16 | 01 | 03 | 03 | 17 | W | 01 | 01 | 01 | 01 | | 37 | 2 | 0 | 05 |
| 832886530 | 48110000 | 03.971 | 0569 | 30 | 018100 | 13 | 03 | 22 | 10 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 03 | 03 | 38 | W | 03 | 01 | 01 | 01 | | 70 | 2 | 0 | 02 |
| 832834050 | 48110000 | 03.971 | 0569 | 30 | 018100 | 13 | 03 | 26 | 08 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 13 | 02 | R | 1 | S | 01 | 01 | 01 | 03 | 21 | E | 03 | 01 | 01 | 01 | | 21 | 2 | 0 | 00 |
| 832898040 | 48110000 | 03.971 | 0569 | 30 | 018100 | 13 | 03 | 26 | 19 | S-2DP | 0 | 14 | 03 | 03 | 01 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 01 | 01 | 57 | S | 19 | 01 | 05 | 01 | | 60 | 2 | 0 | 00 |
| 832779690 | 48110000 | 03.971 | 0569 | 30 | 018100 | 13 | 04 | 26 | 17 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | E | 01 | 01 | 01 | 02 | 63 | E | 03 | 01 | 13 | 01 | | 56 | 2 | 0 | 01 |
| 837183170 | 48110000 | 03.971 | 0569 | 30 | 017100 | 14 | 01 | 26 | 17 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 03 | 03 | 58 | W | 02 | 01 | 01 | 01 | | 78 | 2 | 0 | 02 |
| 848812460 | 48110000 | 03.971 | 0569 | 30 | 018300 | 15 | 04 | 08 | 17 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | S | L | N | 01 | 01 | 01 | 02 | 20 | N | 20 | 01 | 01 | 01 | | 42 | 2 | 0 | 00 |
| 851817540 | 48110000 | 03.971 | 0569 | 30 | 018300 | 15 | 09 | 13 | 18 | S-2DP | 0 | 14 | 03 | 02 | 01 | 01 | 01 | 02 | I | M | E | 01 | 01 | 03 | 03 | 18 | W | 01 | 01 | 01 | 01 | | 16 | 2 | 0 | 00 |
| 852180140 | 48110000 | 03.971 | 0569 | 30 | 018300 | 15 | 12 | 23 | 23 | S-2DP | 1 | 14 | 03 | 05 | 02 | 02 | 01 | 02 | I | M | E | 03 | 01 | 01 | 11 | 27 | S | 01 | 01 | 01 | 01 | | 21 | 3 | 0 | 03 |
| 852869000 | 48110000 | 03.971 | 0569 | 30 | 019600 | 16 | 03 | 01 | 18 | S-2DP | 0 | 11 | 77 | 05 | 01 | 01 | 01 | 02 | I | M | N | 02 | 01 | 01 | 01 | 64 | * | 03 | 06 | 06 | 04 | 00 | 20 | 1 | 0 | 01 |
| 853792660 | 48110000 | 03.971 | 0569 | 30 | 019600 | 16 | 11 | 08 | 10 | S-2DP | 0 | 14 | 03 | 01 | 03 | 02 | 01 | 02 | I | M | W | 03 | 01 | 03 | 03 | 26 | E | 01 | 01 | 01 | 01 | | 29 | 2 | 0 | 04 |
| 854488550 | 48110000 | 03.971 | 0569 | 30 | 019600 | 16 | 12 | 15 | 06 | S-2DP | 0 | 14 | 03 | 03 | 01 | 01 | 01 | 02 | I | M | N | 01 | 01 | 03 | 06 | 27 | S | 16 | 01 | 01 | 01 | | 55 | 2 | 0 | 03 |
| 844948820 | 48110000 | 03.972 | 0569 | 30 | 009300 | 14 | 10 | 17 | 13 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | L | R | S | 03 | 01 | 01 | 02 | 16 | S | 16 | 01 | 13 | 01 | | 64 | 2 | 0 | 03 |
| 844824240 | 48110000 | 03.973 | 0569 | 30 | 009300 | 14 | 08 | 03 | 02 | S-2DP | 0 | 09 | 77 | 04 | 01 | 01 | 01 | 02 | L | S | S | 01 | 01 | 01 | 02 | 21 | | | | | | | | 1 | 0 | 02 |
| 837014300 | 48110000 | 03.976 | 0569 | 30 | 009500 | 13 | 11 | 01 | 07 | S-2DP | 0 | 25 | 77 | 01 | 03 | 02 | 10 | 02 | R | S | N | 01 | 01 | 01 | 01 | 44 | | | | | | | | 1 | 0 | 01 |
| 831509330 | 48110000 | 03.980 | 0569 | 30 | 009500 | 13 | 01 | 09 | 18 | S-2DP | 0 | 25 | 77 | 05 | 02 | 02 | 01 | 02 | R | S | E | 16 | 01 | 03 | 02 | 27 | | | | | | | | 1 | 0 | 00 |
| 845439300 | 48110000 | 03.980 | 0569 | 30 | 010000 | 15 | 02 | 12 | 21 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 01 | 02 | 26 | S | 03 | 01 | 13 | 01 | | 49 | 2 | 0 | 00 |
| 853698140 | 48110000 | 03.980 | 0569 | 30 | 010900 | 16 | 08 | 12 | 16 | S-2DP | 0 | 14 | 01 | 01 | 02 | 02 | 01 | 03 | L | 1 | S | 03 | 01 | 01 | 00 | S | 01 | 01 | 13 | 01 | | 47 | 2 | 0 | 00 |
| 851769850 | 48110000 | 03.999 | 0569 | 30 | 010000 | 15 | 09 | 12 | 03 | S-2DP | 0 | 01 | 77 | 05 | 03 | 02 | 01 | 01 | R | S | S | 01 | 01 | 15 | 01 | 27 | | | | | | | | 1 | 0 | 01 |
| 852789110 | 48110000 | 04.009 | 0569 | 30 | 010900 | 16 | 02 | 27 | 14 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | L | 1 | S | 01 | 01 | 01 | 02 | 58 | S | 03 | 01 | 13 | 01 | | 70 | 2 | 0 | 01 |
| 832029690 | 48110000 | 04.018 | 0569 | 30 | 009500 | 12 | 09 | 23 | 01 | S-2DP | 0 | 33 | 77 | 05 | 01 | 01 | 01 | 03 | L | S | N | 01 | 01 | 15 | 00 | | | | | | | | | 1 | 0 | 00 |
| 851603380 | 48110000 | 04.066 | 0569 | 30 | 010000 | 15 | 08 | 06 | 18 | S-2UN | 0 | 32 | 77 | 01 | 01 | 01 | 01 | 01 | R | S | S | 01 | 01 | 15 | 25 | 18 | | | | | | | | 1 | 0 | 00 |
| 851997560 | 48110000 | 04.155 | 2533 | 30 | 010000 | 15 | 10 | 19 | 16 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | R | 1 | N | 01 | 01 | 01 | 02 | 18 | N | 16 | 01 | 01 | 01 | | 74 | 2 | 0 | 00 |
| 828796030 | 48110000 | 04.202 | 2533 | 30 | 009500 | 12 | 02 | 18 | 11 | S-2UN | 0 | 14 | 01 | 01 | 03 | 02 | 01 | 04 | R | 1 | N | 01 | 01 | 01 | 02 | 17 | N | 16 | 01 | 13 | 01 | | 60 | 2 | 0 | 02 |
| 851923290 | 48110000 | 04.205 | 2533 | 30 | 010000 | 15 | 10 | 19 | 06 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 03 | 01 | 01 | 02 | 35 | S | 01 | 01 | 14 | 01 | | 33 | 2 | 0 | 00 |

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2012 TO 12/31/2016 RAMPS INCL
FROM CO/SEC/SUB: 48 110 000 MP: 003.971 INFL INCL
TO CO/SEC/SUB: 48 110 000 MP: 008.140 CR/OS INCL

| C R N A U S M H B E R | ROADWYID C S T I O N O E C T I Y | M I L E A G E | N E N A O R D E E | S T R A O T A E D | ADT VAR EIA RLF AYF G I E C | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE S-2UN SG Y | A L C | H AE RV ME FN EO TD RL IT L | MO AF N | L IC GO HN | W EC AO TN HD | R D U S | R OC AO DN D T | DL OO TC A ST S | R O C A L N | A C I R | V 1 DY TO | V 1 YP E | VF 1U AO SC P E | VM 1A N E U V | VA 1C T DI RO IN | V 1A G DE R I | V 2 D R | V 2N M OD DE /S C | V 2N M UL NO CC / | V M F VI TT 1N /R /1 | VN 2M MP NR CC RO | VN 2M AA | M 2N M A G E 2 | V K I D E I N RA H L J AG C L U E R S D D | # # # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 836969820 | 48110000 | 04.212 | 2533 | 30 | 009500 | 13 | 12 | 06 | 06 | S-2UN | 0 | 32 | 77 | 01 | 01 | 01 | 01 | 01 | L | S | S | 01 | 01 | 01 | 01 | 50 | | | | | | | | | 1 | 0 | 01 |
| 837228240 | 48110000 | 04.221 | 2533 | 30 | 009500 | 13 | 12 | 17 | 22 | S-2UN | 1 | 15 | 03 | 05 | 01 | 01 | 01 | 01 | R | S | W | 01 | 01 | 01 | 02 | 52 | E | 03 | 01 | 08 | | | 00 | 3 | 0 | 01 |
| 832419920 | 48110000 | 04.230 | 2533 | 30 | 009500 | 12 | 11 | 10 | 11 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | L | 1 | S | 01 | 01 | 01 | 02 | 50 | S | 03 | 01 | 05 | 01 | | 57 | 2 | 0 | 00 |
| 832039290 | 48110000 | 04.296 | 2533 | 30 | 009500 | 12 | 09 | 27 | 12 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | R | S | N | 01 | 01 | 01 | 02 | 30 | N | 03 | 01 | 05 | 01 | | 52 | 2 | 0 | 02 |
| 844944160 | 48110000 | 04.412 | 2534 | 30 | 009300 | 14 | 09 | 21 | 04 | S-2UN | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | L | 1 | W | 03 | 01 | 03 | 03 | 27 | S | 16 | 01 | 01 | 77 | | 61 | 2 | 0 | 03 |
| 853341910 | 48110000 | 04.414 | 2534 | 30 | 010900 | 16 | 06 | 10 | 14 | S-2UN | 0 | 32 | 77 | 01 | 01 | 01 | 01 | 01 | R | S | N | 01 | 01 | 05 | 02 | 17 | | | | | | | | | 1 | 0 | 00 |
| 837170780 | 48110000 | 04.466 | 2534 | 30 | 009500 | 13 | 11 | 22 | 17 | S-2UN | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 01 | L | 1 | S | 01 | 01 | 01 | 02 | 42 | S | 01 | 01 | 13 | 01 | | 30 | 2 | 0 | 00 |
| 852768590 | 48110000 | 04.560 | 2535 | 30 | 010900 | 16 | 03 | 12 | 13 | S-2UN | 0 | 25 | 77 | 01 | 02 | 01 | 01 | 01 | R | S | N | 01 | 01 | 77 | 02 | 75 | | | | | | | | | 1 | 0 | 02 |
| 851576630 | 48110000 | 04.651 | 2535 | 30 | 010000 | 15 | 07 | 11 | 12 | S-2UN | 0 | 10 | 77 | 01 | 01 | 01 | 01 | 03 | R | 1 | N | 03 | 01 | 01 | 01 | 73 | * | 01 | 10 | 06 | 05 | 00 | 30 | 1 | 0 | 01 |
| 831509150 | 48110000 | 04.655 | 2535 | 30 | 009500 | 12 | 08 | 07 | 14 | S-2UN | 0 | 14 | 05 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 16 | 01 | 01 | 02 | 37 | W | 01 | 01 | 01 | 01 | | 69 | 3 | 0 | 02 |
| 837951900 | 48110000 | 04.655 | 2535 | 30 | 009300 | 14 | 05 | 28 | 16 | S-2UN | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | L | 1 | E | 16 | 01 | 03 | 03 | 50 | W | 03 | 01 | 01 | 01 | | 49 | 2 | 0 | 01 |
| 831635240 | 48110000 | 04.693 | 2535 | 30 | 009500 | 12 | 07 | 07 | 03 | S-2UN | 0 | 25 | 77 | 05 | 01 | 01 | 01 | 01 | R | S | S | 01 | 01 | 15 | 26 | 23 | | | | | | | | | 1 | 0 | 01 |
| 854264040 | 48110000 | 04.693 | 2535 | 30 | 010900 | 16 | 11 | 20 | 01 | S-2UN | 0 | 09 | 77 | 05 | 01 | 01 | 01 | 01 | L | S | E | 01 | 01 | 77 | 02 | 29 | | | | | | | | | 1 | 0 | 00 |
| 854181350 | 48110000 | 04.750 | 2535 | 30 | 010900 | 16 | 11 | 29 | 20 | S-2UN | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 01 | R | 1 | N | 01 | 01 | 01 | 02 | 64 | N | 16 | 01 | 13 | 01 | | 17 | 2 | 0 | 01 |
| 836499770 | 48110000 | 04.755 | 2535 | 30 | 009500 | 13 | 07 | 15 | 10 | S-2UN | 0 | 14 | 01 | 01 | 03 | 02 | 01 | 01 | R | 1 | E | 02 | 01 | 01 | 02 | 29 | E | 16 | 01 | 01 | 01 | | 78 | 2 | 0 | 00 |
| 836499780 | 48110000 | 04.755 | 2535 | 30 | 009500 | 13 | 07 | 15 | 10 | S-2UN | 0 | 14 | 01 | 01 | 02 | 02 | 01 | 01 | R | 1 | W | 01 | 01 | 01 | 02 | 21 | W | 01 | 01 | 01 | 01 | | 23 | 2 | 0 | 00 |
| 831675750 | 48110000 | 04.905 | 2535 | 30 | 009500 | 12 | 08 | 10 | 23 | S-2UN | 0 | 25 | 77 | 05 | 03 | 02 | 01 | 01 | R | S | N | 01 | 01 | 01 | | 00 | | | | | | | | | 1 | 0 | 00 |
| 831851610 | 48110000 | 04.905 | 2535 | 30 | 009500 | 12 | 09 | 13 | 16 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | L | 1 | E | 07 | 01 | 01 | 77 | 71 | W | 08 | 01 | 01 | 01 | | 72 | 3 | 0 | 00 |
| 853375490 | 48110000 | 04.905 | 2535 | 30 | 010900 | 16 | 07 | 10 | 22 | S-2UN | 0 | 25 | 77 | 05 | 02 | 01 | 01 | 01 | L | S | S | 01 | 01 | 16 | 01 | 17 | | | | | | | | | 1 | 0 | 00 |
| 832517500 | 48110000 | 04.955 | 2535 | 30 | 009500 | 12 | 12 | 02 | 17 | S-2UN | 0 | 01 | 77 | 01 | 01 | 01 | 01 | 01 | L | S | E | 01 | 01 | 01 | | 00 | | | | | | | | | 1 | 0 | 00 |
| 845328200 | 48110000 | 05.005 | 2535 | 30 | 009300 | 14 | 11 | 10 | 06 | S-2UN | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | 1 | E | 03 | 01 | 03 | 02 | 51 | E | 01 | 01 | 03 | 01 | | 39 | 2 | 0 | 00 |
| 844836110 | 48110000 | 05.155 | 2535 | 30 | 009300 | 14 | 11 | 13 | 02 | S-2UN | 0 | 15 | 03 | 05 | 01 | 01 | 01 | 04 | L | 1 | W | 16 | 01 | 08 | | 00 | S | 01 | 01 | 01 | 01 | | 19 | 2 | 0 | 02 |
| 845672930 | 48110000 | 05.155 | 2535 | 30 | 010000 | 15 | 03 | 13 | 20 | S-2UN | 0 | 14 | 03 | 05 | 03 | 02 | 01 | 04 | R | 1 | W | 16 | 01 | 04 | 04 | 16 | N | 01 | 01 | 01 | 01 | | 37 | 2 | 0 | 00 |
| 853213000 | 48110000 | 05.155 | 2535 | 30 | 010900 | 16 | 06 | 06 | 06 | S-2UN | 0 | 32 | 77 | 01 | 03 | 02 | 01 | 01 | R | S | W | 03 | 01 | 01 | 12 | 31 | | | | | | | | | 1 | 0 | 00 |
| 831769900 | 48110000 | 05.489 | 0571 | 30 | 009500 | 12 | 09 | 02 | 03 | S-2UN | 1 | 36 | 77 | 04 | 01 | 01 | 01 | 01 | R | S | E | 03 | 01 | 01 | 02 | 31 | S | 03 | 01 | 01 | | | 00 | 2 | 0 | 00 |
| 832384290 | 48110000 | 05.495 | 0571 | 30 | 009500 | 12 | 11 | 10 | 14 | S-2UN | 0 | 25 | 77 | 01 | 01 | 01 | 01 | 01 | L | 1 | W | 01 | 01 | 11 | 02 | 23 | | | | | | | | | 1 | 0 | 00 |
| 837249890 | 48110000 | 05.810 | 0571 | 30 | 009300 | 14 | 03 | 23 | 09 | S-2UN | 0 | 14 | 02 | 05 | 01 | 01 | 01 | 01 | R | 1 | W | 01 | 01 | 01 | 01 | 27 | E | 01 | 01 | 01 | 01 | | 29 | 2 | 0 | 05 |
| 849008340 | 48110000 | 05.810 | 0571 | 30 | 010000 | 15 | 06 | 28 | 20 | S-2UN | 0 | 14 | 05 | 05 | 02 | 01 | 01 | 01 | R | 1 | W | 00 | 01 | 01 | | 00 | E | 16 | 01 | 01 | 01 | | 60 | 2 | 0 | 00 |
| 836671370 | 48110000 | 05.837 | 0571 | 30 | 009500 | 13 | 10 | 12 | 09 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | L | 1 | S | 03 | 01 | 13 | 77 | 52 | S | 01 | 01 | 01 | 01 | | 63 | 2 | 0 | 00 |
| 853486230 | 48110000 | 05.995 | 2939 | 30 | 010900 | 16 | 06 | 29 | 12 | S-2UN | 0 | 14 | 03 | 01 | 02 | 02 | 01 | 01 | L | 1 | E | 16 | 01 | 10 | 06 | 29 | W | 03 | 01 | 01 | 01 | | 45 | 2 | 0 | 01 |
| 852667940 | 48110000 | 06.055 | 2939 | 30 | 010900 | 16 | 02 | 10 | 19 | S-2UN | 0 | 14 | 02 | 04 | 01 | 01 | 01 | 01 | L | 1 | N | 01 | 01 | 01 | 25 | 57 | S | 03 | 01 | 01 | 01 | | 51 | 2 | 0 | 00 |
| 832104380 | 48110000 | 06.060 | 2939 | 30 | 009500 | 12 | 11 | 13 | 15 | S-2UN | 0 | 32 | 77 | 01 | 01 | 01 | 01 | 01 | L | S | W | 16 | 01 | 01 | 77 | 32 | | | | | | | | | 1 | 0 | 01 |
| 833286290 | 48110000 | 06.060 | 2939 | 30 | 009500 | 13 | 05 | 31 | 04 | S-2UN | 0 | 01 | 77 | 88 | 77 | 88 | 01 | 01 | L | S | E | 16 | 01 | 10 | | 00 | | | | | | | | | 1 | 0 | 00 |
| 853853730 | 48110000 | 06.060 | 2939 | 30 | 010900 | 16 | 08 | 31 | 20 | S-2UN | 0 | 14 | 77 | 02 | 02 | 01 | 01 | 01 | R | 1 | S | 01 | 01 | 16 | 25 | 44 | N | 03 | 01 | 01 | 01 | | 49 | 3 | 0 | 03 |
| 836630530 | 48110000 | 06.110 | 2939 | 30 | 009500 | 13 | 09 | 25 | 06 | S-2UN | 0 | 33 | 77 | 01 | 03 | 02 | 10 | 01 | R | S | S | 01 | 01 | 01 | 02 | 33 | | | | | | | | | 1 | 0 | 00 |
| 852746360 | 48110000 | 06.110 | 2939 | 30 | 010900 | 16 | 03 | 27 | 00 | S-2UN | 0 | 09 | 77 | 05 | 03 | 02 | 01 | 01 | R | S | W | 16 | 01 | 01 | 02 | 24 | | | | | | | | | 1 | 0 | 01 |
| 833219530 | 48110000 | 06.295 | 2536 | 30 | 009500 | 13 | 05 | 03 | 10 | S-2UN | 0 | 05 | 77 | 01 | 01 | 01 | 01 | 01 | R | 1 | W | 20 | 01 | 01 | 77 | 66 | E | 01 | 01 | 01 | 01 | | 48 | 4 | 0 | 00 |

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2012 TO 12/31/2016 RAMPS INCL
FROM CO/SEC/SUB: 48 110 000 MP: 003.971 INFL INCL
TO CO/SEC/SUB: 48 110 000 MP: 008.140 CR/OS INCL

| C R N A U S M H B E R | ROADWYID C S E C T I O N | S E S T | M I L E P O S T | N E A R O A D | S T R A T A | ADT VAR EIA RLF AYF | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE | A L C | H AE RV ME FN I | MO AF NC EO UT G | L IC HN TD RL I | W EC AO HD ET S | R D U R | R OC AO DN T | DL OO TC A ST D | R O C A L | A C I | 1 1 D | VF 1U N SC P E | VM 1A N E U | VA 1C T DI RO IN | 1A G DE R I | V 2 M OD R | V 2N M F UL | V 2N M MP NR | VN 2M AA VI | VN 2M CC TT | N M V 2N C T N | # # # D RA AG GE E | M V K I E I L J S D D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 851370410 | 48110000 | 06.301 | 2536 | 30 | 010000 | 15 | 08 | 12 | 02 | S-2UN | 0 | 33 | 77 | 04 | 01 | 01 | 01 | 02 | R | S | E | 01 | 01 | 01 | 02 | 57 | | | | | | | 1 | 0 | 00 |
| 845477390 | 48110000 | 06.308 | 2536 | 30 | 010000 | 15 | 02 | 19 | 13 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | E | 01 | 01 | 01 | 02 | 34 | E | 16 | 01 | 13 | 01 | | 70 | 2 | 0 | 02 |
| 819933380 | 48110000 | 06.374 | 2536 | 30 | 009500 | 12 | 08 | 29 | 11 | S-2UN | 0 | 27 | 77 | 04 | 02 | 01 | 01 | 01 | L | S | S | 11 | 01 | 01 | 17 | 21 | | | | | | | 1 | 1 | 00 |
| 852335000 | 48110000 | 06.400 | 2536 | 30 | 010900 | 16 | 02 | 20 | 14 | S-2UN | 0 | 07 | 77 | 01 | 01 | 01 | 01 | 01 | L | S | E | 03 | 01 | 01 | 77 | 44 | E | 01 | 01 | 01 | 01 | | 51 | 2 | 0 | 01 |
| 833042880 | 48110000 | 06.448 | 0572 | 30 | 009500 | 13 | 04 | 09 | 09 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | L | 1 | W | 16 | 01 | 01 | 02 | 72 | W | 17 | 01 | 14 | 01 | | 46 | 2 | 0 | 02 |
| 853229500 | 48110000 | 06.448 | 0572 | 30 | 010900 | 16 | 05 | 20 | 19 | S-2UN | 0 | 39 | 88 | 05 | 02 | 02 | 01 | 01 | R | S | E | 01 | 01 | 01 | | 00 | | | | | | | | 1 | 0 | 00 |
| 845658340 | 48110000 | 06.586 | 0573 | 30 | 010000 | 15 | 04 | 03 | 02 | S-2UN | 1 | 09 | 77 | 05 | 01 | 01 | 01 | 01 | L | S | E | 16 | 01 | 01 | 02 | 21 | | | | | | | | 1 | 0 | 01 |
| 832395310 | 48110000 | 06.695 | 0573 | 30 | 009500 | 12 | 12 | 05 | 07 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | R | 2 | E | 01 | 01 | 01 | 10 | 57 | E | 01 | 01 | 13 | 01 | | 16 | 3 | 0 | 03 |
| 852334600 | 48110000 | 06.806 | 0573 | 30 | 010900 | 16 | 01 | 23 | 23 | S-2UN | 0 | 32 | 77 | 05 | 01 | 01 | 01 | 01 | L | S | E | 01 | 01 | 01 | | 00 | | | | | | | | 1 | 0 | 00 |
| 852797130 | 48110000 | 06.810 | 0573 | 30 | 010900 | 16 | 02 | 21 | 15 | S-2UN | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 01 | R | 1 | E | 01 | 01 | 01 | 02 | 25 | E | 03 | 01 | 13 | 01 | | 24 | 2 | 0 | 00 |
| 845583230 | Y48205000 | 07.098 | 2317 | 173 | 016500 | 14 | 12 | 26 | 14 | S-2DP | 0 | 14 | 77 | 02 | 01 | 01 | 01 | 04 | R | L | N | 03 | 01 | 88 | 01 | 16 | N | 11 | 01 | 01 | 01 | | 62 | 2 | 0 | 01 |
| 852190790 | Y48205000 | 07.098 | 2317 | 173 | 017500 | 15 | 12 | 11 | 15 | S-2DP | 1 | 14 | 77 | 01 | 01 | 01 | 01 | 03 | R | 1 | S | 03 | 01 | 10 | 02 | 60 | N | 01 | 01 | 01 | 01 | | 32 | 2 | 0 | 02 |
| 848880570 | Y48205000 | 07.108 | 2317 | 173 | 017500 | 15 | 07 | 06 | 15 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | 1 | N | 01 | 01 | 14 | 02 | 18 | N | 01 | 01 | 13 | 01 | | 60 | 2 | 0 | 01 |
| 838336820 | Y48205000 | 07.113 | 2317 | 173 | 016500 | 14 | 08 | 09 | 16 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 03 | R | 1 | N | 01 | 01 | 01 | 02 | 18 | N | 16 | 01 | 01 | 01 | | 55 | 2 | 0 | 00 |
| 832833740 | 48110000 | 07.117 | 3075 | 30 | 009500 | 13 | 02 | 26 | 00 | S-2DP | 1 | 25 | 77 | 05 | 03 | 02 | 01 | 01 | R | S | W | 01 | 01 | 01 | 02 | 30 | | | | | | | | 1 | 0 | 00 |
| 851769990 | 48110000 | 07.117 | 3075 | 30 | 010000 | 15 | 10 | 14 | 07 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | M | M | E | 01 | 01 | 01 | 02 | 19 | E | 03 | 01 | 13 | 01 | | 68 | 2 | 0 | 02 |
| 832625860 | Y48205000 | 07.117 | 2317 | 173 | 015500 | 13 | 01 | 08 | 07 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 03 | R | 1 | N | 01 | 01 | 01 | 02 | 42 | N | 01 | 01 | 13 | 01 | | 30 | 2 | 0 | 00 |
| 837627370 | Y48205000 | 07.117 | 2317 | 173 | 016500 | 14 | 02 | 18 | 14 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | 1 | N | 01 | 01 | 01 | 02 | 35 | N | 03 | 01 | 13 | 01 | | 63 | 2 | 0 | 01 |
| 848812120 | Y48205000 | 07.117 | 2317 | 173 | 017500 | 15 | 03 | 13 | 09 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 03 | R | 1 | N | 01 | 01 | 01 | 02 | 21 | N | 16 | 01 | 13 | 01 | | 36 | 2 | 0 | 00 |
| 854152080 | Y48205000 | 07.117 | 2317 | 173 | 016500 | 16 | 11 | 27 | 11 | S-2DP | 0 | 14 | 04 | 01 | 01 | 01 | 01 | 03 | R | L | N | 01 | 01 | 06 | 02 | 63 | N | 16 | 01 | 01 | 01 | | 29 | 2 | 0 | 00 |
| 828937430 | 48205000 | 07.127 | 2317 | 173 | 017500 | 12 | 03 | 16 | 14 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | N | 03 | 01 | 01 | 02 | 39 | N | 02 | 01 | 13 | 01 | | 54 | 2 | 0 | 00 |
| 852768520 | Y48205000 | 07.127 | 2317 | 173 | 016500 | 16 | 03 | 09 | 13 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | 1 | N | 01 | 01 | 01 | 02 | 28 | N | 03 | 01 | 13 | 01 | | 54 | 2 | 0 | 02 |
| 819503910 | 48205000 | 07.128 | 2317 | 173 | 015500 | 13 | 11 | 01 | 14 | S-2DP | 0 | 14 | 03 | 01 | 03 | 02 | 10 | 02 | R | 1 | S | 01 | 01 | 03 | 25 | 26 | N | 01 | 01 | 13 | 01 | | 22 | 2 | 0 | 00 |
| 845407130 | 48205000 | 07.128 | 2317 | 173 | 016500 | 14 | 12 | 22 | 13 | S-2DP | 0 | 14 | 01 | 01 | 02 | 02 | 01 | 02 | R | 1 | N | 01 | 01 | 01 | 02 | 67 | N | 16 | 01 | 13 | 01 | | 56 | 3 | 0 | 01 |
| 845678390 | 48205000 | 07.132 | 2317 | 173 | 017500 | 15 | 02 | 09 | 09 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 01 | 02 | 50 | S | 03 | 01 | 13 | 01 | | 60 | 2 | 0 | 00 |
| 837401820 | 48205000 | 07.134 | 2317 | 173 | 016500 | 14 | 01 | 21 | 12 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | N | 01 | 01 | 01 | 02 | 27 | N | 01 | 01 | 13 | 01 | | 48 | 2 | 0 | 01 |
| 852992140 | Y48205000 | 07.134 | 2317 | 173 | 016500 | 16 | 04 | 12 | 17 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | L | L | N | 02 | 01 | 01 | 02 | 31 | S | 02 | 01 | 13 | 01 | | 58 | 2 | 0 | 00 |
| 836402400 | 48205000 | 07.135 | 2317 | 173 | 015500 | 13 | 08 | 03 | 03 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 02 | R | 1 | N | 01 | 01 | 01 | 02 | 24 | N | 01 | 01 | 13 | 01 | | 45 | 2 | 0 | 00 |
| 853643260 | 48205000 | 07.135 | 2317 | 173 | 016500 | 16 | 09 | 28 | 13 | S-2DP | 0 | 14 | 02 | 01 | 01 | 01 | 01 | 02 | I | M | S | 01 | 01 | 01 | 11 | 57 | N | 01 | 01 | 13 | 01 | | 35 | 2 | 0 | 03 |
| 831855290 | 48205000 | 07.136 | 2317 | 173 | 017500 | 12 | 08 | 13 | 06 | S-2DP | 0 | 14 | 02 | 01 | 01 | 01 | 01 | 02 | R | R | N | 01 | 01 | 05 | 02 | 23 | N | 01 | 01 | 05 | 01 | | 29 | 2 | 0 | 00 |
| 832853620 | 48205000 | 07.136 | 2317 | 173 | 015500 | 13 | 04 | 02 | 01 | S-2DP | 0 | 36 | 77 | 04 | 01 | 01 | 01 | 02 | R | S | S | 16 | 01 | 03 | 30 | 28 | | | | | | | | 1 | 0 | 00 |
| 833347840 | 48205000 | 07.136 | 2317 | 173 | 015500 | 13 | 07 | 22 | 20 | S-2DP | 0 | 14 | 03 | 05 | 02 | 01 | 01 | 02 | L | 1 | S | 03 | 01 | 01 | 77 | 35 | W | 03 | 01 | 03 | 01 | | 25 | 2 | 0 | 00 |
| 836553890 | 48205000 | 07.136 | 2317 | 173 | 015500 | 13 | 10 | 08 | 12 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 00 | 01 | 01 | | 00 | S | 03 | 01 | 13 | 01 | | 46 | 2 | 0 | 00 |
| 838214300 | 48205000 | 07.136 | 2317 | 173 | 016500 | 14 | 07 | 06 | 19 | S-2DP | 0 | 14 | 03 | 02 | 01 | 01 | 01 | 02 | R | 1 | S | 03 | 01 | 03 | 06 | 24 | N | 01 | 01 | 01 | 01 | | 20 | 2 | 0 | 03 |

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2012 TO 12/31/2016 RAMPS INCL
FROM CO/SEC/SUB: 48 110 000 MP: 003.971 INFL INCL
TO CO/SEC/SUB: 48 110 000 MP: 008.140 CR/OS INCL

| C R A S H | N U M B E R | ROADWY CS UC NT TI YO N | ID S SC UT BI O T | M I L E P O S T | N EN AO RD EE S | S TR AO TA ED | ADT VAR EIA RLF AYF G I E C | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE H SG Y | A L C | H AE RV ME FN I V | MO AF N NC EO RL 1 | L IC GO HN TD IT NN GS | W EC AO TN HD ET RN S | R D U R | R OC AO DN D T N S | DL OO TC A ST II EN | R O C D L S # | A N | V 1 1 D I N R YP E | V 1U 1A 1C 1A SC E DI DE R V R R1 | V 2 D I R | V 2N 2N 2M 2M N N T G M M C | V VN VN M 2N M E S | # # # V K I L J U E R D | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 851566670 | 48205000 | 07.136 | 2317 | 173 | 017500 | 15 | 08 | 31 | 13 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | I | M | E | 01 | 01 | 03 | 03 | 19 | W | 16 | 01 | 01 | 01 | 71 | 2 | 0 | 03 |
| 851923430 | 48205000 | 07.136 | 2317 | 173 | 017500 | 15 | 10 | 31 | 13 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | R | 1 | S | 01 | 01 | 03 | 03 | 67 | N | 16 | 01 | 01 | 01 | 72 | 2 | 0 | 00 |
| 852111560 | 48205000 | 07.136 | 2317 | 173 | 017500 | 15 | 11 | 09 | 22 | S-2DP | 0 | 14 | 03 | 05 | 02 | 01 | 01 | 02 | R | L | N | 01 | 01 | 05 | 01 | 24 | E | 16 | 01 | 01 | 01 | 21 | 2 | 0 | 02 |
| 836406160 | 48205000 | 07.140 | 2317 | 173 | 021000 | 13 | 08 | 08 | 14 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 16 | 01 | 01 | 02 | 43 | S | 03 | 01 | 13 | 01 | 41 | 2 | 0 | 00 |
| 845363530 | 48205000 | 07.141 | 2317 | 173 | 023000 | 14 | 11 | 19 | 07 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 01 | 02 | 20 | E | 01 | 01 | 13 | 01 | 49 | 2 | 0 | 00 |
| 851297200 | 48205000 | 07.142 | 2317 | 173 | 022500 | 15 | 07 | 08 | 14 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 01 | 02 | 59 | S | 03 | 01 | 14 | 01 | 48 | 2 | 0 | 00 |
| 848755810 | 48205000 | 07.142 | 2317 | 173 | 022500 | 15 | 09 | 01 | 20 | S-2DP | 0 | 14 | 01 | 04 | 02 | 01 | 01 | 02 | L | 1 | S | 16 | 01 | 01 | 02 | 77 | S | 01 | 01 | 13 | 01 | 49 | 3 | 0 | 00 |
| 832853370 | 48205000 | 07.144 | 2317 | 173 | 021000 | 13 | 03 | 12 | 07 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | L | 2 | S | 16 | 01 | 01 | 02 | 58 | S | 01 | 01 | 13 | 01 | 44 | 2 | 0 | 01 |
| 831847860 | 48205000 | 07.145 | 2317 | 173 | 022000 | 12 | 08 | 26 | 20 | S-2DP | 0 | 14 | 01 | 04 | 01 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 01 | 02 | 19 | S | 16 | 01 | 13 | 01 | 45 | 2 | 0 | 00 |
| 852621800Y | 48205000 | 07.145 | 2317 | 173 | 024000 | 16 | 03 | 20 | 13 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | L | 1 | S | 03 | 01 | 01 | 02 | 19 | S | 03 | 01 | 13 | 01 | 36 | 2 | 0 | 00 |
| 828928690Y | 48205000 | 07.147 | 2317 | 173 | 022000 | 12 | 03 | 26 | 12 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | L | 1 | S | 01 | 01 | 01 | 02 | 25 | S | 11 | 01 | 13 | 01 | 38 | 2 | 0 | 01 |
| 836906280Y | 48205000 | 07.147 | 2317 | 173 | 021000 | 13 | 10 | 04 | 21 | S-2DP | 0 | 14 | 01 | 05 | 02 | 01 | 01 | 03 | L | 1 | S | 01 | 01 | 01 | | 00 | S | 03 | 01 | 13 | 01 | 49 | 2 | 0 | 00 |
| 848608060Y | 48205000 | 07.155 | 2317 | 173 | 022500 | 15 | 05 | 12 | 09 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | L | E | 01 | 01 | 01 | 03 | 23 | S | 03 | 01 | 01 | 01 | 41 | 2 | 0 | 02 |
| 852932040Y | 48205000 | 07.155 | 2317 | 173 | 024000 | 16 | 04 | 12 | 11 | S-2DP | 0 | 14 | 77 | 01 | 03 | 02 | 01 | 03 | L | L | E | 02 | 01 | 03 | | 00 | S | 01 | 01 | 01 | 01 | 70 | 2 | 0 | 02 |
| 853323170Y | 48205000 | 07.155 | 2317 | 173 | 024000 | 16 | 06 | 05 | 15 | S-2DP | 0 | 14 | 77 | 01 | 02 | 01 | 01 | 03 | L | R | S | 01 | 01 | 06 | 77 | 15 | S | 11 | 01 | 01 | 01 | 22 | 2 | 0 | 01 |
| 853375460Y | 48205000 | 07.155 | 2317 | 173 | 024000 | 16 | 07 | 09 | 22 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 03 | L | 1 | S | 01 | 01 | 01 | 02 | 18 | S | 16 | 01 | 13 | 01 | 37 | 2 | 0 | 00 |
| 831558310 | 48110000 | 07.161 | 3075 | 30 | 009500 | 12 | 06 | 08 | 07 | S-2DP | 0 | 14 | 01 | 01 | 03 | 02 | 01 | 03 | R | L | E | 01 | 01 | 01 | 02 | 64 | E | 16 | 01 | 13 | 01 | 57 | 3 | 0 | 03 |
| 852787180Y | 48205000 | 07.164 | 2317 | 173 | 024000 | 16 | 03 | 09 | 18 | S-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 04 | L | L | E | 01 | 01 | 03 | 03 | 61 | S | 16 | 01 | 01 | 01 | 66 | 2 | 0 | 03 |
| 836857650Y | 48205000 | 07.174 | 2317 | 173 | 021000 | 13 | 10 | 23 | 07 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | L | E | 01 | 01 | 01 | 03 | 22 | S | 01 | 01 | 01 | 01 | 36 | 2 | 0 | 00 |
| 844971910Y | 48205000 | 07.174 | 2317 | 173 | 023000 | 14 | 09 | 16 | 16 | S-2DP | 0 | 14 | 01 | 01 | 03 | 02 | 01 | 03 | L | 1 | S | 17 | 01 | 01 | 02 | 47 | S | 02 | 01 | 13 | 01 | 41 | 3 | 0 | 02 |
| 853212960Y | 48205000 | 07.174 | 2317 | 173 | 024000 | 16 | 06 | 01 | 07 | S-2DP | 0 | 14 | 02 | 01 | 01 | 01 | 01 | 01 | L | L | N | 00 | 01 | 01 | | 00 | S | 16 | 01 | 01 | 01 | 68 | 2 | 0 | 00 |
| 837560320Y | 48205000 | 07.183 | 2317 | 173 | 023000 | 14 | 04 | 17 | 07 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 01 | L | 1 | N | 03 | 01 | 01 | 02 | 30 | N | 01 | 01 | 10 | 01 | 21 | 2 | 0 | 00 |
| 851305000 | 48110000 | 07.206 | 2317 | 30 | 010000 | 15 | 09 | 04 | 16 | S-2DP | 0 | 09 | 77 | 01 | 01 | 01 | 01 | 01 | M | M | E | 03 | 01 | 01 | 26 | 19 | | | | | | | 1 | 0 | 00 |
| 820429040 | 48110000 | 07.211 | 2317 | 30 | 009500 | 13 | 07 | 03 | 22 | S-2DP | 0 | 32 | 77 | 05 | 03 | 02 | 10 | 01 | R | S | W | 16 | 01 | 01 | 12 | 43 | | | | | | | 1 | 0 | 01 |
| 831742520 | 48110000 | 07.249 | 2317 | 30 | 009500 | 12 | 07 | 30 | 16 | S-2DP | 0 | 34 | 77 | 01 | 03 | 02 | 01 | 01 | L | S | W | 02 | 01 | 01 | 25 | 43 | | | | | | | 1 | 0 | 00 |
| 832772010 | 48110000 | 07.268 | 2317 | 30 | 009500 | 13 | 04 | 03 | 00 | S-2DP | 1 | 14 | 01 | 04 | 01 | 01 | 01 | 03 | R | 1 | E | 01 | 01 | 01 | 02 | 22 | E | 01 | 01 | 14 | 01 | 22 | 2 | 0 | 00 |
| 836494870 | 48110000 | 07.268 | 2317 | 30 | 009500 | 13 | 07 | 28 | 17 | S-2DP | 0 | 33 | 77 | 01 | 01 | 01 | 01 | 03 | L | S | W | 01 | 01 | 01 | 02 | 25 | | | | | | | 1 | 0 | 00 |
| 836670680 | 48110000 | 07.270 | 2317 | 30 | 009500 | 13 | 08 | 08 | 19 | S-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 04 | R | L | N | 01 | 01 | 01 | 06 | 53 | E | 16 | 01 | 01 | 01 | 17 | 2 | 0 | 01 |
| 837514660 | 48110000 | 07.287 | 2317 | 30 | 009300 | 14 | 03 | 21 | 13 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | 1 | E | 16 | 01 | 01 | 02 | 60 | E | 01 | 01 | 13 | 01 | 53 | 2 | 0 | 00 |
| 845623900 | 48110000 | 07.287 | 2317 | 30 | 010000 | 15 | 02 | 11 | 09 | S-2DP | 0 | 14 | 04 | 01 | 01 | 01 | 01 | 03 | R | L | E | 16 | 01 | 06 | 77 | 27 | E | 01 | 01 | 01 | 01 | 61 | 2 | 0 | 01 |
| 851603620 | 48110000 | 07.287 | 2317 | 30 | 010000 | 15 | 09 | 11 | 12 | S-2DP | 0 | 14 | 77 | 01 | 03 | 02 | 01 | 03 | R | R | W | 01 | 01 | 03 | 03 | 67 | E | 03 | 01 | 01 | 01 | 64 | 2 | 0 | 00 |
| 853118790 | 48110000 | 07.295 | 2317 | 30 | 010900 | 16 | 05 | 08 | 17 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | 1 | E | 01 | 01 | 03 | 03 | 24 | W | 16 | 01 | 01 | 01 | 28 | 2 | 0 | 08 |
| 831478290 | 48110000 | 07.297 | 2317 | 30 | 009500 | 12 | 05 | 25 | 21 | S-2DP | 1 | 39 | 77 | 05 | 01 | 01 | 01 | 02 | L | S | E | 03 | 01 | 03 | 02 | 51 | | | | | | | 1 | 0 | 00 |
| 832980960 | 48110000 | 07.297 | 2317 | 30 | 009500 | 13 | 03 | 26 | 12 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | E | 01 | 01 | 01 | 02 | 71 | E | 01 | 01 | 13 | 01 | 47 | 2 | 0 | 00 |

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2012 TO 12/31/2016 RAMPS INCL
FROM CO/SEC/SUB: 48 110 000 MP: 003.971 INFL INCL
TO CO/SEC/SUB: 48 110 000 MP: 008.140 CR/OS INCL

| C R N A U S M H B E R | ROADWYID C S E C T I O N | S U R F A C E T Y P E | M I L E P O S T | N E N A T U R E | S C H O O L | ADT V A R E I A | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE | A L C | H AE RV ME FN I | MO AF NC EO UT G I | L IC HN TD RL N | W EC AO HD IT GS | R D U R | R OC AO DN T S | DL OO TC A D ST | R O C | A C L I | 1 1 D B OT DY YP | VF 1U N SC P E | VM 1A N E U V | VA 1C T DI RO IN | V 1A G DE R I | V 2 M OD DE /S | V 2N M UL NO CC / | VN 2M MP NR VI 1N /R | VN 2M AA CC TT | N V M 2N C RA AG GE 2 E | # # # M V K I E I L L N S D D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 837514240 | 48110000 | 07.300 | 2317 | 30 | 009300 | 14 | 02 | 07 | 14 | S-2DP | 0 | 14 | 04 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 01 | 01 | 61 | W | 16 | 01 | 01 | 01 | 22 | 2 | 0 | 00 |
| 845631470 | 48110000 | 07.300 | 2317 | 30 | 010000 | 15 | 01 | 05 | 13 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 16 | 01 | 01 | 02 | 64 | W | 16 | 01 | 13 | 01 | 30 | 2 | 0 | 01 |
| 833219590 | 48110000 | 07.301 | 2317 | 30 | 009500 | 13 | 05 | 04 | 15 | S-2DP | 0 | 14 | 04 | 01 | 01 | 01 | 01 | 02 | R | L | E | 16 | 01 | 01 | | 00 | E | 16 | 01 | 01 | 01 | 34 | 2 | 0 | 00 |
| 845678320 | 48110000 | 07.301 | 2317 | 30 | 010000 | 15 | 01 | 27 | 17 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 02 | L | 1 | W | 03 | 01 | 04 | | 00 | E | 01 | 01 | 13 | 01 | 39 | 2 | 0 | 00 |
| 833219610 | 48110000 | 07.302 | 2317 | 30 | 009500 | 13 | 05 | 05 | 08 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | E | 16 | 01 | 04 | 04 | 70 | E | 01 | 01 | 13 | 01 | 71 | 2 | 0 | 00 |
| 845288160 | 48110000 | 07.303 | 2317 | 30 | 009300 | 14 | 11 | 10 | 15 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 01 | 02 | 48 | E | 16 | 01 | 13 | 01 | 31 | 2 | 0 | 02 |
| 831447500 | 48110000 | 07.304 | 2317 | 30 | 009500 | 12 | 05 | 01 | 11 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | E | 16 | 01 | 01 | | 00 | E | 01 | 01 | 13 | 01 | 43 | 2 | 0 | 00 |
| 851923180 | 48110000 | 07.305 | 2317 | 30 | 010000 | 15 | 10 | 12 | 12 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | E | 16 | 01 | 01 | 02 | 42 | E | 01 | 01 | 13 | 01 | 55 | 3 | 0 | 00 |
| 828622330 | 48110000 | 07.306 | 2317 | 30 | 009500 | 12 | 01 | 19 | 09 | S-2DP | 0 | 14 | 02 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 03 | 03 | 72 | W | 16 | 01 | 01 | 01 | 39 | 2 | 0 | 01 |
| 828942560 | 48110000 | 07.306 | 2317 | 30 | 009500 | 12 | 03 | 12 | 13 | S-2DP | 0 | 14 | 01 | 01 | 02 | 02 | 01 | 02 | S | 1 | N | 00 | 01 | 00 | | 00 | N | 01 | 01 | 13 | 01 | 25 | 2 | 0 | 00 |
| 831851430 | 48110000 | 07.306 | 2317 | 30 | 009500 | 12 | 09 | 05 | 16 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 01 | 02 | 51 | W | 01 | 01 | 13 | 01 | 47 | 2 | 0 | 00 |
| 831978420 | 48110000 | 07.306 | 2317 | 30 | 009500 | 12 | 10 | 05 | 17 | S-2DP | 0 | 14 | 03 | 04 | 01 | 01 | 01 | 02 | L | 1 | E | 03 | 01 | 03 | 03 | 45 | W | 01 | 01 | 01 | 01 | 56 | 2 | 0 | 00 |
| 837295660 | 48110000 | 07.306 | 2317 | 30 | 009300 | 14 | 01 | 10 | 07 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 03 | 03 | 38 | W | 01 | 01 | 01 | 01 | 25 | 2 | 0 | 01 |
| 851900730 | 48110000 | 07.306 | 2317 | 30 | 010000 | 15 | 09 | 21 | 05 | S-2DP | 0 | 14 | 77 | 04 | 01 | 01 | 01 | 02 | I | M | E | 01 | 01 | 03 | | 00 | E | 01 | 01 | 01 | 01 | 33 | 2 | 0 | 00 |
| 852165610 | 48110000 | 07.306 | 2317 | 30 | 010000 | 15 | 11 | 19 | 10 | S-2DP | 0 | 14 | 04 | 01 | 01 | 01 | 01 | 02 | L | 1 | S | 16 | 01 | 05 | 03 | 75 | W | 02 | 01 | 01 | 01 | 70 | 2 | 0 | 00 |
| 852708890 | 48110000 | 07.306 | 2317 | 30 | 010900 | 16 | 02 | 09 | 08 | S-2DP | 0 | 11 | 77 | 01 | 01 | 01 | 01 | 01 | R | 1 | E | 88 | 08 | 01 | | 00 | * | 03 | 07 | 03 | 05 | 00 | 15 | 1 | 0 | 00 |
| 853212900 | 48110000 | 07.306 | 2317 | 30 | 010900 | 16 | 05 | 26 | 12 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | I | M | E | 01 | 01 | 03 | 01 | 25 | W | 03 | 01 | 01 | 01 | 17 | 2 | 0 | 00 |
| 853983970 | 48110000 | 07.306 | 2317 | 30 | 010900 | 16 | 11 | 08 | 15 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | I | M | E | 16 | 01 | 03 | 03 | 21 | W | 16 | 01 | 01 | 01 | 31 | 3 | 0 | 00 |
| 837594550 | 48110000 | 07.307 | 2317 | 30 | 013000 | 14 | 03 | 07 | 21 | S-2DP | 0 | 14 | 01 | 05 | 02 | 01 | 01 | 02 | R | 1 | E | 01 | 01 | 01 | 01 | 34 | E | 02 | 01 | 13 | 01 | 58 | 2 | 0 | 02 |
| 851183470 | 48110000 | 07.308 | 2317 | 30 | 013600 | 15 | 05 | 17 | 16 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | R | W | 01 | 01 | 01 | 02 | 21 | W | 03 | 01 | 13 | 01 | 37 | 2 | 0 | 00 |
| 852709330 | 48110000 | 07.308 | 2317 | 30 | 014900 | 16 | 03 | 16 | 19 | S-2DP | 0 | 14 | 77 | 02 | 01 | 01 | 01 | 03 | L | 1 | N | 01 | 01 | 01 | 30 | 34 | N | 01 | 01 | 13 | 01 | 40 | 2 | 0 | 00 |
| 838209800 | 48110000 | 07.309 | 2317 | 30 | 013000 | 14 | 06 | 22 | 15 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | V | S | 01 | 01 | 01 | | 00 | W | 03 | 01 | 01 | 01 | 50 | 2 | 0 | 00 |
| 848961850 | 48110000 | 07.311 | 2317 | 30 | 013600 | 15 | 05 | 20 | 20 | S-2DP | 0 | 14 | 01 | 04 | 01 | 01 | 01 | 02 | L | L | W | 16 | 01 | 01 | 02 | 29 | W | 16 | 01 | 01 | 01 | 36 | 2 | 0 | 00 |
| 831914410 | 48110000 | 07.312 | 2317 | 30 | 013900 | 12 | 10 | 10 | 20 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 02 | R | 1 | E | 01 | 01 | 01 | 02 | 35 | E | 01 | 01 | 13 | 01 | 38 | 2 | 0 | 00 |
| 845672500 | 48110000 | 07.314 | 2317 | 30 | 013600 | 15 | 02 | 06 | 17 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | L | W | 01 | 01 | 03 | 03 | 45 | W | 01 | 01 | 01 | 01 | 52 | 2 | 0 | 00 |
| 851296970 | 48110000 | 07.314 | 2317 | 30 | 013600 | 15 | 06 | 02 | 20 | S-2DP | 0 | 24 | 77 | 05 | 02 | 01 | 01 | 02 | L | R | W | 11 | 01 | 05 | 02 | 63 | | | | | | | 1 | 0 | 01 |
| 837392380 | 48110000 | 07.315 | 2317 | 30 | 013000 | 14 | 01 | 27 | 16 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 01 | 02 | 61 | W | 01 | 01 | 13 | 01 | 43 | 3 | 0 | 01 |
| 853857410 | 48110000 | 07.315 | 2317 | 30 | 014900 | 16 | 09 | 09 | 12 | S-2DP | 0 | 24 | 77 | 01 | 01 | 01 | 01 | 03 | L | S | W | 01 | 01 | 05 | 02 | 82 | S | 03 | 01 | 08 | 01 | 41 | 2 | 0 | 02 |
| 837373520 | 48110000 | 07.316 | 2317 | 30 | 013000 | 13 | 12 | 16 | 09 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 01 | L | 1 | E | 01 | 01 | 01 | 02 | 24 | W | 01 | 01 | 01 | 01 | 19 | 2 | 0 | 00 |
| 833112130 | 48110000 | 07.317 | 2317 | 30 | 013000 | 13 | 05 | 23 | 08 | S-2DP | 0 | 14 | 04 | 01 | 01 | 01 | 01 | 04 | R | 1 | E | 01 | 01 | 06 | 03 | 16 | E | 01 | 01 | 01 | 01 | 34 | 2 | 0 | 00 |
| 836687200 | 48110000 | 07.320 | 2317 | 30 | 013000 | 13 | 09 | 19 | 17 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | L | S | 16 | 01 | 03 | 03 | 35 | W | 16 | 01 | 01 | 01 | 40 | 2 | 0 | 00 |
| 828599410 | 48110000 | 07.325 | 2317 | 30 | 013900 | 12 | 01 | 06 | 11 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 04 | R | 1 | S | 17 | 01 | 03 | 03 | 39 | E | 01 | 01 | 01 | 01 | 50 | 2 | 0 | 00 |
| 828607910 | 48110000 | 07.325 | 2317 | 30 | 013900 | 12 | 01 | 26 | 07 | S-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 03 | L | 1 | W | 01 | 01 | 01 | 02 | 31 | W | 08 | 01 | 13 | 01 | 52 | 2 | 0 | 00 |
| 828807960 | 48110000 | 07.325 | 2317 | 30 | 013900 | 12 | 03 | 04 | 16 | S-2DP | 0 | 14 | 04 | 01 | 01 | 01 | 01 | 03 | L | R | W | 03 | 01 | 05 | 06 | 50 | W | 01 | 01 | 14 | 01 | 46 | 2 | 0 | 00 |
| 831508930 | 48110000 | 07.325 | 2317 | 30 | 013900 | 12 | 05 | 26 | 10 | S-2DP | 0 | 14 | 04 | 01 | 01 | 01 | 01 | 03 | L | L | W | 01 | 01 | 06 | 03 | 54 | W | 16 | 01 | 01 | 01 | 31 | 2 | 0 | 00 |
| 848607490 | 48110000 | 07.325 | 2317 | 30 | 013600 | 15 | 02 | 24 | 16 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 04 | L | R | E | 01 | 01 | 03 | 06 | 53 | W | 01 | 01 | 01 | 01 | 56 | 2 | 0 | 02 |
| 848756150 | 48110000 | 07.325 | 2317 | 30 | 013600 | 15 | 11 | 10 | 17 | S-2DP | 0 | 14 | 03 | 04 | 01 | 01 | 01 | 01 | L | L | E | 03 | 01 | 03 | 03 | 17 | W | 16 | 01 | 01 | 01 | 26 | 2 | 0 | 02 |

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2012 TO 12/31/2016 RAMPS INCL
FROM CO/SEC/SUB: 48 110 000 MP: 003.971 INFL INCL
TO CO/SEC/SUB: 48 110 000 MP: 008.140 CR/OS INCL

| C R A S H | N U M B E R | ROADWY CO SEC UT BI O N | ID S I P O T | M N RD TA RLF AYF | N EN AO RD EE S T | S TR AO TA ED | ADT VAR EIA RLF AYF G I E C | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE SG Y | A L C | H AE RV ME FN I UT V L 1 | MO AF N NC EO RL L | L IC GO HN TD IT NN GS | W EC AO TN HD ET RN S | R D U R | R OC AO DN D T S | DL OO TC A ST II EN | R O C D S | A C N | V 1 E B OT YP E | V 1 16 P E C | VF 1U N SC E DI R E V R1 | VM 1A N E U RO IN V R | VA 1C T DI R V | V 1A G DE R | V 2 M I R | V 2N 2N OD DE C | V 2N M UL NO /S / | V 2M M F CC RO /R | VN 2M MP NR VI 1N /1 | VN 2M AA CC TT N 2 | N V M A C E | V 2N M RA AG GE E | # # # V H C L S | # K I L U D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 852602190 | 48110000 | 07.325 | 2317 | 30 | 014900 | 16 | 01 | 20 | 17 | S-2DP | 0 | 14 | 03 | 05 | 02 | 01 | 01 | 04 | L | 1 | E | 16 | 01 | 03 | 03 | 50 | W | 01 | 01 | 01 | 01 | | 23 | 3 | 0 | 03 |
| 852904320 | 48110000 | 07.325 | 2317 | 30 | 014900 | 16 | 04 | 13 | 16 | S-2DP | 0 | 14 | 03 | 01 | 02 | 02 | 01 | 03 | L | L | S | 01 | 01 | 03 | 03 | 61 | W | 16 | 01 | 01 | 01 | | 41 | 2 | 0 | 02 |
| 831978350 | 48110000 | 07.334 | 2317 | 30 | 013900 | 12 | 10 | 03 | 14 | S-2DP | 0 | 14 | 04 | 01 | 02 | 01 | 01 | 04 | L | 1 | S | 20 | 01 | 05 | 01 | 24 | S | 03 | 01 | 05 | 01 | | 60 | 2 | 0 | 00 |
| 836494930 | 48110000 | 07.334 | 2317 | 30 | 013000 | 13 | 08 | 02 | 17 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | R | E | 02 | 01 | 03 | 01 | 22 | W | 02 | 01 | 01 | 01 | | 40 | 2 | 0 | 00 |
| 831442310 | 48110000 | 07.337 | 2317 | 30 | 013900 | 12 | 05 | 17 | 14 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | R | E | 01 | 01 | 03 | 03 | 20 | W | 01 | 01 | 01 | 01 | | 87 | 2 | 0 | 01 |
| 837918830 | 48110000 | 07.344 | 2317 | 30 | 013000 | 14 | 05 | 02 | 07 | S-2DP | 0 | 09 | 77 | 01 | 02 | 02 | 01 | 01 | R | S | E | 16 | 01 | 01 | 03 | 52 | E | 03 | 01 | 01 | 01 | | 23 | 2 | 0 | 00 |
| 845329540 | 48110000 | 07.344 | 2317 | 30 | 013000 | 14 | 12 | 21 | 20 | S-2DP | 0 | 14 | 77 | 05 | 01 | 01 | 01 | 01 | L | 1 | U | 01 | 01 | 01 | 02 | 26 | U | 01 | 01 | 01 | 01 | | 18 | 2 | 0 | 00 |
| 853125720 | 48110000 | 07.344 | 2317 | 30 | 014900 | 16 | 06 | 16 | 17 | S-2DP | 0 | 14 | 03 | 01 | 02 | 02 | 01 | 04 | L | L | S | 03 | 01 | 03 | 03 | 21 | W | 16 | 01 | 01 | 01 | | 47 | 2 | 0 | 02 |
| 854181490 | 48110000 | 07.344 | 2317 | 30 | 014900 | 16 | 12 | 09 | 15 | S-2DP | 0 | 14 | 03 | 02 | 01 | 01 | 01 | 01 | L | L | E | 01 | 01 | 10 | 06 | 32 | E | 16 | 01 | 11 | 15 | | 68 | 2 | 0 | 00 |
| 831509210 | 48110000 | 07.363 | 2317 | 30 | 013900 | 12 | 09 | 18 | 07 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | 1 | S | 01 | 01 | 01 | 03 | 66 | W | 03 | 01 | 01 | | | 00 | 2 | 0 | 00 |
| 833219790 | 48110000 | 07.363 | 2317 | 30 | 013000 | 13 | 05 | 23 | 18 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | 1 | S | 03 | 01 | 01 | 03 | 25 | W | 03 | 01 | 01 | 01 | | 37 | 2 | 0 | 00 |
| 833015910 | 48110000 | 07.363 | 2317 | 30 | 013000 | 13 | 12 | 17 | 16 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 01 | R | 1 | W | 02 | 01 | 01 | 02 | 72 | W | 03 | 01 | 13 | 01 | | 38 | 2 | 0 | 01 |
| 854045550 | 48110000 | 07.382 | 2317 | 30 | 014900 | 16 | 11 | 10 | 17 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 01 | L | 1 | W | 01 | 01 | 77 | 02 | 63 | W | 01 | 01 | 13 | 01 | | 18 | 4 | 0 | 04 |
| 836494940 | 48110000 | 07.406 | 2317 | 30 | 013000 | 13 | 08 | 02 | 20 | S-2DP | 0 | 14 | 01 | 04 | 01 | 01 | 01 | 04 | L | S | E | 16 | 01 | 01 | 02 | 35 | E | 16 | 01 | 13 | | | 00 | 2 | 0 | 00 |
| 853009390 | 48110000 | 07.406 | 2317 | 30 | 014900 | 16 | 04 | 20 | 15 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | L | S | 01 | 01 | 03 | 03 | 22 | W | 16 | 01 | 01 | 01 | | 38 | 2 | 0 | 04 |
| 831442040 | 48110000 | 07.420 | 2317 | 30 | 013900 | 12 | 04 | 27 | 08 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 04 | L | L | S | 01 | 01 | 03 | 03 | 17 | W | 01 | 01 | 01 | 01 | | 43 | 2 | 0 | 02 |
| 832395490 | 48110000 | 07.551 | 0568 | 30 | 013900 | 12 | 12 | 25 | 22 | S-2UN | 0 | 14 | 01 | 05 | 02 | 02 | 10 | 01 | R | 1 | E | 00 | 01 | 01 | | 00 | E | 03 | 01 | 01 | 01 | | 17 | 2 | 0 | 01 |
| 851576840 | 48110000 | 07.556 | 0568 | 30 | 013600 | 15 | 08 | 22 | 01 | S-2UN | 0 | 32 | 77 | 05 | 02 | 02 | 01 | 01 | L | S | W | 16 | 01 | 01 | 01 | 59 | | | | | | | | | | 1 | 0 | 01 |
| 852152770 | 48110000 | 07.556 | 0568 | 30 | 013600 | 15 | 12 | 26 | 19 | S-2UN | 0 | 10 | 77 | 05 | 02 | 01 | 01 | 01 | L | S | W | 00 | 01 | 01 | | 00 | * | 01 | 07 | 03 | 01 | 01 | 63 | 1 | 0 | 01 |
| 852382770 | 48110000 | 07.632 | 2537 | 30 | 014900 | 16 | 01 | 01 | 09 | S-2UN | 0 | 39 | 77 | 01 | 02 | 02 | 01 | 03 | R | S | E | 16 | 01 | 16 | 02 | 41 | | | | | | | | | | 1 | 0 | 00 |
| 836790930 | 48110000 | 07.685 | 2538 | 30 | 013000 | 13 | 12 | 10 | 16 | S-2UN | 0 | 14 | 03 | 02 | 01 | 01 | 01 | 04 | L | 1 | S | 02 | 01 | 01 | 03 | 58 | W | 01 | 01 | 01 | 01 | | 62 | 2 | 0 | 01 |
| 853682390 | 48110000 | 07.688 | 2538 | 30 | 014900 | 16 | 08 | 10 | 10 | S-2UN | 0 | 14 | 01 | 01 | 03 | 02 | 01 | 03 | R | 1 | E | 01 | 01 | 01 | 02 | 30 | E | 01 | 01 | 13 | 01 | | 22 | 2 | 0 | 01 |
| 836506660 | 48110000 | 07.690 | 2538 | 30 | 013000 | 13 | 07 | 08 | 19 | S-2UN | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | I | M | W | 02 | 01 | 03 | 03 | 72 | E | 11 | 01 | 01 | 01 | | 39 | 2 | 0 | 02 |
| 837232920 | 48110000 | 07.690 | 2538 | 30 | 013000 | 13 | 12 | 24 | 12 | S-2UN | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | R | 1 | N | 16 | 01 | 03 | 03 | 52 | E | 11 | 01 | 01 | 01 | | 48 | 2 | 0 | 01 |
| 832030040 | 48110000 | 07.691 | 2538 | 30 | 013900 | 12 | 10 | 22 | 13 | S-2UN | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 01 | 02 | 17 | W | 01 | 01 | 13 | 01 | | 67 | 3 | 0 | 02 |
| 836577440 | 48110000 | 07.800 | 3081 | 30 | 013000 | 13 | 09 | 04 | 07 | S-2UN | 0 | 14 | 04 | 01 | 02 | 01 | 01 | 01 | R | L | E | 02 | 01 | 77 | 77 | 56 | E | 16 | 01 | 06 | 01 | | 41 | 2 | 0 | 00 |
| 836686850 | 48110000 | 07.889 | 2539 | 30 | 013000 | 13 | 08 | 30 | 11 | U-2DP | 0 | 11 | 88 | 01 | 01 | 01 | 01 | 04 | R | S | U | 00 | 01 | 05 | | 00 | * | 03 | 07 | 88 | 01 | 00 | 20 | 1 | 0 | 01 |
| 852787170 | 48110000 | 07.903 | 2539 | 30 | 014900 | 16 | 03 | 09 | 16 | U-2DP | 0 | 14 | 77 | 01 | 02 | 01 | 01 | 03 | L | R | W | 01 | 01 | 01 | 02 | 37 | W | 16 | 01 | 14 | 01 | | 31 | 3 | 0 | 06 |
| 844827950 | 48110000 | 07.906 | 2539 | 30 | 013000 | 14 | 07 | 24 | 06 | U-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | M | M | N | 03 | 01 | 03 | 01 | 40 | S | 16 | 01 | 03 | 01 | | 32 | 2 | 0 | 00 |
| 838183680 | 48110000 | 07.908 | 2539 | 30 | 013000 | 14 | 05 | 20 | 20 | U-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 10 | 06 | 17 | W | 03 | 01 | 01 | 01 | | 20 | 2 | 0 | 02 |
| 853341980 | 48110000 | 07.950 | 0575 | 30 | 014900 | 16 | 06 | 12 | 20 | U-2DP | 0 | 32 | 77 | 05 | 01 | 01 | 01 | 02 | E | E | W | 01 | 01 | 01 | 02 | 37 | | | | | | | | | | 1 | 0 | 01 |
| 833036810 | 48110000 | 07.970 | 0575 | 30 | 013000 | 13 | 04 | 24 | 15 | U-2DP | 0 | 14 | 01 | 01 | 03 | 02 | 01 | 03 | R | 1 | E | 02 | 01 | 01 | 02 | 51 | E | 03 | 01 | 13 | 01 | | 65 | 3 | 0 | 02 |
| 838344150 | 48110000 | 07.975 | 0575 | 30 | 013000 | 14 | 06 | 25 | 07 | U-2DP | 0 | 14 | 01 | 01 | 02 | 02 | 01 | 03 | L | 1 | W | 02 | 01 | 01 | 10 | 38 | * | 01 | 77 | 01 | 02 | 03 | 22 | 2 | 0 | 01 |
| 837305710 | 48110000 | 07.980 | 0575 | 30 | 013000 | 14 | 02 | 24 | 14 | U-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | L | E | 01 | 01 | 01 | 02 | 23 | E | 16 | 01 | 13 | 01 | | 35 | 2 | 0 | 02 |
| 845328730 | 48110000 | 07.984 | 0575 | 30 | 013000 | 14 | 12 | 23 | 15 | U-2DP | 0 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | L | 1 | W | 03 | 01 | 05 | 02 | 68 | W | 01 | 01 | 05 | 01 | | 50 | 2 | 0 | 00 |
| 832350480 | 48110000 | 07.985 | 0575 | 30 | 013900 | 12 | 11 | 09 | 16 | U-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | E | 20 | 01 | 01 | 02 | 36 | E | 03 | 01 | 13 | 01 | | 63 | 2 | 0 | 00 |
| 851229360 | 48110000 | 07.985 | 0575 | 30 | 013600 | 15 | 06 | 15 | 20 | U-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 02 | R | 1 | E | 01 | 01 | 01 | 02 | 36 | E | 01 | 01 | 13 | 01 | | 41 | 2 | 0 | 01 |

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2012 TO 12/31/2016 RAMPS INCL
FROM CO/SEC/SUB: 48 110 000 MP: 003.971 INFL INCL
TO CO/SEC/SUB: 48 110 000 MP: 008.140 CR/OS INCL

| C R N A U S M H B E R | ROADWYID C S O E U C N T T I Y O N | S E SC UT BI O T | M I L E P O T | N EN AO RD EE S | S TR AO TA ED | ADT VAR EIA RLF AYF G I E C | Y E A R | M O N T H | D A Y | H O U R | CRCC RALA ATAT SESE H SG O R Y | A L C | H AE RV ME FN I N V | MO AF N NC EO RL | L IC GO HN TD IT NN GS | W EC AO TN HD ET RN S | R D U R F S | R OC AO DN D T N | DL OO TC A ST II TO EN | R O C A L S D YP E | A 1 C D I N R E | V 1 1 B OT E DY C | VF 1U N SC P E V | VM 1A N E U | VA 1C T DI RO IN V R1 | V 1A G DE R I V R | V 2 M OD DE /S C | V 2N 2N M UL NO CC / | VN 2M M MP VI RO /R | VN 2M AA TT 1N /1 | N V C T 2 | # 2N M AG GE E | # # # V K L L R S D D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 832350380 | 48110000 | 07.987 | 0575 | 30 | 013900 | 12 | 11 | 03 | 12 | U-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | R | E | 02 | 01 | 05 | 02 | 27 | E | 01 | 01 | 13 | 01 | 67 | 2 | 0 | 00 |
| 854323180 | 48110000 | 07.987 | 0575 | 30 | 014900 | 16 | 12 | 06 | 17 | U-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 03 | R | 1 | E | 02 | 01 | 01 | 02 | 34 | E | 01 | 01 | 13 | 01 | 26 | 2 | 0 | 00 |
| 831530140 | 48110000 | 07.989 | 0575 | 30 | 013900 | 12 | 06 | 17 | 19 | U-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 16 | 01 | 01 | 11 | 46 | E | 03 | 01 | 03 | 01 | 26 | 2 | 0 | 01 |
| 831998140 | 48110000 | 07.989 | 0575 | 30 | 013900 | 12 | 10 | 25 | 15 | U-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 03 | 03 | 20 | W | 01 | 01 | 01 | 01 | 16 | 2 | 0 | 02 |
| 832308790 | 48110000 | 07.989 | 0575 | 30 | 013900 | 12 | 11 | 02 | 06 | U-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 03 | 01 | 03 | 03 | 23 | W | 02 | 01 | 01 | 01 | 48 | 2 | 0 | 00 |
| 832356020 | 48110000 | 07.989 | 0575 | 30 | 013900 | 12 | 12 | 07 | 17 | U-2DP | 0 | 14 | 03 | 04 | 01 | 01 | 01 | 02 | L | 1 | W | 03 | 01 | 01 | 11 | 38 | N | 01 | 01 | 03 | 01 | 36 | 2 | 0 | 01 |
| 832668160 | 48110000 | 07.989 | 0575 | 30 | 013000 | 13 | 01 | 18 | 21 | U-2DP | 0 | 14 | 03 | 05 | 01 | 01 | 01 | 02 | R | 1 | W | 01 | 01 | 03 | 01 | 21 | E | 16 | 01 | 01 | 01 | 42 | 2 | 0 | 02 |
| 833004120 | 48110000 | 07.989 | 0575 | 30 | 013000 | 13 | 03 | 21 | 01 | U-2DP | 0 | 14 | 03 | 04 | 01 | 01 | 01 | 02 | R | 1 | S | 00 | 01 | 01 | | 00 | E | 01 | 01 | 01 | 01 | 56 | 2 | 0 | 00 |
| 836405900 | 48110000 | 07.989 | 0575 | 30 | 013000 | 13 | 07 | 02 | 11 | U-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 16 | 01 | 03 | 01 | 28 | W | 02 | 01 | 01 | 77 | 21 | 2 | 0 | 01 |
| 837392390 | 48110000 | 07.989 | 0575 | 30 | 013000 | 14 | 01 | 28 | 18 | U-2DP | 0 | 14 | 03 | 05 | 05 | 02 | 01 | 02 | R | 1 | N | 01 | 01 | 01 | | 00 | E | 16 | 01 | 01 | 01 | 29 | 2 | 0 | 00 |
| 837919100 | 48110000 | 07.989 | 0575 | 30 | 013000 | 14 | 05 | 18 | 10 | U-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | R | 1 | E | 03 | 01 | 01 | 02 | 34 | E | 16 | 01 | 13 | 01 | 66 | 2 | 0 | 02 |
| 838335110 | 48110000 | 07.989 | 0575 | 30 | 013000 | 14 | 07 | 11 | 00 | U-2DP | 0 | 14 | 03 | 04 | 01 | 01 | 01 | 02 | L | 1 | S | 01 | 01 | 01 | 11 | 20 | W | 01 | 01 | 01 | 01 | 21 | 2 | 0 | 03 |
| 836859080 | 48110000 | 07.989 | 0575 | 30 | 013600 | 15 | 03 | 23 | 15 | U-2DP | 0 | 33 | 77 | 01 | 02 | 01 | 01 | 02 | R | S | E | 01 | 01 | 01 | 30 | 64 | | | | | | | | 1 | 0 | 00 |
| 851576760 | 48110000 | 07.989 | 0575 | 30 | 013600 | 15 | 07 | 23 | 11 | U-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 03 | 06 | 16 | W | 16 | 01 | 01 | 01 | 31 | 2 | 0 | 02 |
| 851535520 | 48110000 | 07.989 | 0575 | 30 | 013600 | 15 | 08 | 13 | 14 | U-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | 1 | E | 01 | 01 | 03 | 03 | 52 | W | 16 | 01 | 01 | 01 | 42 | 2 | 0 | 00 |
| 851576880 | 48110000 | 07.989 | 0575 | 30 | 013600 | 15 | 08 | 25 | 23 | U-2DP | 0 | 14 | 02 | 05 | 01 | 01 | 01 | 02 | L | 1 | E | 03 | 01 | 03 | 06 | 48 | W | 16 | 01 | 01 | 01 | 39 | 2 | 0 | 02 |
| 852382760 | 48110000 | 07.989 | 0575 | 30 | 013600 | 15 | 12 | 31 | 19 | U-2DP | 0 | 14 | 04 | 02 | 02 | 01 | 01 | 02 | R | 1 | E | 00 | 01 | 05 | | 00 | N | 16 | 01 | 05 | 01 | 33 | 2 | 0 | 00 |
| 854339720 | 48110000 | 07.989 | 0575 | 30 | 014900 | 16 | 12 | 10 | 10 | U-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | I | M | E | 03 | 01 | 03 | 77 | 42 | W | 03 | 01 | 01 | 77 | 61 | 2 | 0 | 01 |
| 831855460 | 48110000 | 07.991 | 0575 | 30 | 008000 | 12 | 08 | 22 | 18 | S-2DP | 2 | 14 | 01 | 01 | 02 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 01 | 02 | 42 | W | 01 | 01 | 13 | 01 | 59 | 2 | 0 | 01 |
| 832625970 | 48110000 | 07.991 | 0575 | 30 | 007400 | 13 | 01 | 11 | 10 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | L | R | S | 01 | 01 | 03 | 06 | 47 | W | 11 | 01 | 13 | 01 | 46 | 2 | 0 | 01 |
| 838209890 | 48110000 | 07.992 | 0575 | 30 | 007400 | 14 | 06 | 30 | 17 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 01 | 02 | 23 | W | 16 | 01 | 13 | 01 | 57 | 2 | 0 | 00 |
| 852737710 | 48110000 | 07.992 | 0575 | 30 | 007800 | 16 | 04 | 01 | 15 | S-2DP | 0 | 14 | 01 | 01 | 03 | 02 | 10 | 03 | L | L | W | 16 | 01 | 14 | 02 | 18 | W | 08 | 12 | 13 | 01 | 64 | 2 | 0 | 00 |
| 836535910 | 48110000 | 07.995 | 0575 | 30 | 007400 | 13 | 07 | 25 | 16 | S-2DP | 0 | 14 | 01 | 01 | 01 | 01 | 01 | 02 | L | 1 | W | 01 | 01 | 01 | | 00 | W | 16 | 01 | 13 | 01 | 36 | 2 | 0 | 00 |
| 833168890 | 48110000 | 08.008 | 0575 | 30 | 007400 | 13 | 09 | 17 | 20 | S-2DP | 0 | 14 | 01 | 05 | 01 | 01 | 01 | 03 | L | 1 | W | 01 | 01 | 01 | 02 | 26 | W | 01 | 01 | 13 | 01 | 38 | 2 | 0 | 00 |
| 854045320 | 48110000 | 08.015 | 0575 | 30 | 007800 | 16 | 10 | 31 | 10 | S-2DP | 0 | 14 | 04 | 01 | 01 | 01 | 01 | 01 | L | 1 | W | 02 | 01 | 06 | 03 | 74 | W | 01 | 01 | 01 | 01 | 62 | 2 | 0 | 01 |
| 832765930 | 48110000 | 08.017 | 0575 | 30 | 007400 | 13 | 02 | 24 | 16 | S-2DP | 0 | 33 | 77 | 01 | 02 | 01 | 01 | 03 | R | S | E | 01 | 01 | 01 | 02 | 20 | | | | | | | | 1 | 0 | 00 |
| 837490420 | 48110000 | 08.034 | 0576 | 30 | 007400 | 14 | 02 | 03 | 13 | S-2DP | 0 | 14 | 04 | 01 | 01 | 01 | 01 | 01 | L | L | W | 16 | 01 | 06 | 77 | 51 | W | 01 | 01 | 01 | 01 | 65 | 2 | 0 | 02 |
| 845364070 | 48110000 | 08.044 | 0576 | 30 | 007600 | 15 | 01 | 11 | 16 | S-2DP | 0 | 14 | 01 | 02 | 02 | 02 | 01 | 02 | R | 1 | E | 01 | 01 | 01 | 02 | 28 | E | 16 | 01 | 13 | 01 | 57 | 2 | 0 | 00 |
| 852992260 | 48110000 | 08.053 | 0576 | 30 | 007800 | 16 | 04 | 20 | 17 | S-2DP | 0 | 14 | 77 | 01 | 01 | 01 | 01 | 02 | I | M | S | 02 | 01 | 01 | 03 | 62 | W | 16 | 01 | 01 | 01 | 48 | 2 | 0 | 00 |
| 851997640 | 48110000 | 08.057 | 0576 | 30 | 007600 | 15 | 10 | 22 | 16 | S-2DP | 0 | 14 | 03 | 01 | 02 | 01 | 01 | 02 | L | L | E | 01 | 01 | 03 | 03 | 58 | W | 01 | 01 | 01 | 01 | 17 | 2 | 0 | 00 |
| 853946810 | 48110000 | 08.062 | 0576 | 30 | 007800 | 16 | 10 | 13 | 11 | S-2DP | 0 | 14 | 03 | 01 | 01 | 01 | 01 | 02 | I | M | E | 01 | 01 | 11 | 15 | 60 | S | 02 | 01 | 01 | 01 | 82 | 2 | 0 | 02 |
| 836894430 | 48110000 | 08.110 | 0577 | 30 | 007400 | 13 | 10 | 24 | 23 | S-2DP | 1 | 09 | 77 | 05 | 01 | 01 | 01 | 01 | R | S | E | 01 | 01 | 01 | 02 | 49 | | | | | | | | 1 | 0 | 00 |
| 832617130 | 48110000 | 08.132 | 0577 | 30 | 007400 | 13 | 03 | 11 | 14 | S-2DP | 0 | 11 | 03 | 01 | 03 | 02 | 01 | 04 | L | S | S | 01 | 01 | 03 | 03 | 30 | * | 03 | 07 | 04 | 01 | 00 | 52 | 1 | 0 | 01 |

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
FROM: 01/01/2012 TO 12/31/2016 RAMPS INCL
FROM CO/SEC/SUB: 48 110 000 MP: 003.971 INFL INCL
TO CO/SEC/SUB: 48 110 000 MP: 008.140 CR/OS INCL

| FOR YEAR | FATAL CRASH STATISTICS | | | INJURY CRASH STATS | | PROPERTY DAMAGE ONLY | TOTALS | | | INFLUENCE CRASHES OCCURRING ON INTERSECTING RDWYS | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | CRASHES | FATALITIES | INJURIES | CRASHES | INJURIES | CRASHES | CRASHES | FATALITIES | INJURIES | AT INT. | INFL AREA |
| 2012 | 1 | 1 | 0 | 20 | 32 | 29 | 50 | 1 | 32 | 7 | 2 |
| 2013 | 0 | 0 | 0 | 27 | 42 | 39 | 66 | 0 | 42 | 12 | 5 |
| 2014 | 0 | 0 | 0 | 24 | 46 | 20 | 44 | 0 | 46 | 8 | 9 |
| 2015 | 0 | 0 | 0 | 25 | 41 | 33 | 58 | 0 | 41 | 14 | 6 |
| 2016 | 0 | 0 | 0 | 34 | 86 | 33 | 67 | 0 | 86 | 5 | 21 |
| TOTAL | 1 | 1 | 0 | 130 | 247 | 154 | 285 | 1 | 247 | 46 | 43 |

N O T I C E: THE INFORMATION CONTAINED IN THIS DOCUMENT (REPORT, SCHEDULE, LIST, OR DATA) HAS BEEN COMPILED FROM INFORMATION COLLECTED FOR THE PURPOSE OF IDENTIFYING, EVALUATING, OR PLANNING SAFETY ENHANCEMENTS. THIS PRODUCT IDENTIFIES INFORMATION USED FOR THE PURPOSE OF DEVELOPING HIGHWAY SAFETY CONSTRUCTION IMPROVEMENT PROJECTS WHICH MAY BE IMPLEMENTED UTILIZING FEDERAL-AID HIGHWAY FUNDS. ANY DOCUMENT DISPLAYING THIS NOTICE SHALL BE USED ONLY FOR THOSE PURPOSES DEEMED APPROPRIATE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. SEE TITLE 23, UNITED STATES CODE, SECTION 409.

*** REPORT TOTALS ***

CUMULATIVE TOTALS FOR ALL LOCATIONS SUBMITTED - OVERLAPPING OR INTERSECTING LOCATIONS MAY RESULT IN CRASHES COUNTED MORE THAN ONCE

| FOR | FATAL CRASH STATISTICS | | | INJURY CRASH STATS | | PROPERTY DAMAGE ONLY | TOTALS | | | INFLUENCE CRASHES OCCURRING ON INTERSECTING RDWYS | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| YEAR | CRASHES | FATALITIES | INJURIES | CRASHES | INJURIES | CRASHES | CRASHES | FATALITIES | INJURIES | AT INT. | INFL AREA |
| 2012 | 1 | 1 | 0 | 20 | 32 | 29 | 50 | 1 | 32 | 7 | 2 |
| 2013 | 0 | 0 | 0 | 27 | 42 | 39 | 66 | 0 | 42 | 12 | 5 |
| 2014 | 0 | 0 | 0 | 24 | 46 | 20 | 44 | 0 | 46 | 8 | 9 |
| 2015 | 0 | 0 | 0 | 25 | 41 | 33 | 58 | 0 | 41 | 14 | 6 |
| 2016 | 0 | 0 | 0 | 34 | 86 | 33 | 67 | 0 | 86 | 5 | 21 |
| TOTAL | 1 | 1 | 0 | 130 | 247 | 154 | 285 | 1 | 247 | 46 | 43 |

N O T I C E: THE INFORMATION CONTAINED IN THIS DOCUMENT (REPORT, SCHEDULE, LIST, OR DATA) HAS BEEN COMPILED FROM INFORMATION COLLECTED FOR THE PURPOSE OF IDENTIFYING, EVALUATING, OR PLANNING SAFETY ENHANCEMENTS. THIS PRODUCT IDENTIFIES INFORMATION USED FOR THE PURPOSE OF DEVELOPING HIGHWAY SAFETY CONSTRUCTION IMPROVEMENT PROJECTS WHICH MAY BE IMPLEMENTED UTILIZING FEDERAL-AID HIGHWAY FUNDS. ANY DOCUMENT DISPLAYING THIS NOTICE SHALL BE USED ONLY FOR THOSE PURPOSES DEEMED APPROPRIATE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. SEE TITLE 23, UNITED STATES CODE, SECTION 409.

Date: 4/5/2019 4:24:10 PM

# FDOT Long Range Estimating System - Production

## R3: Project Details by Sequence Report

**Project:** 443651-1-52-01 **Letting Date:** 09/2021

**Description:** SR 298 FROM SR 30 (US 98)/CR 297 TO E OF SR 727 FAIRFIELD DR

**District:** 03 **County:** 48 ESCAMBIA **Market Area:** 01 **Units:** English

**Contract Class:** 7 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 4.169 MI

**Project Manager:** JORDAN BURNETT

**Version 5-P Project Grand Total** **$6,360,483.47**

**Description:** SR 298 FROM SR 30 (US 98)/CR 297 TO E OF SR 727 FAIRFIELD DR = 3R Candidate Revised after Design Meeting = 2019 6MU = 2/7/2019 = PR

**Sequence:** 1 RSU - Resurfacing, Undivided **Net Length:** 0.067 MI
354 LF

**Description:** SEC 48110000 (CMP 3.971-4.038), Urban, MR 2-12' Lanes, 11' Paved Median, 2-5' Paved Shoulders, plus incidentals

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### ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 3 |
| Roadway Pavement Width L/R | 17.50 / 17.50 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 1,375.73 | SY | $3.16 | $4,347.31 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 113.50 | TN | $120.00 | $13,620.00 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 94.93 | TN | $140.00 | $13,290.20 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 215.00 | TN | $120.00 | $25,800.00 |
| 701-17-101 | PROFILED THERMOPLAST,STD, WHITE,SOLID,6" | 8.34 | GM | $6,162.17 | $51,392.50 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 2 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 36.00 | EA | $4.29 | $154.44 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.13 | GM | $986.25 | $128.21 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.13 | GM | $652.63 | $84.84 |
| 711-15-201 | THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6" | 0.13 | GM | $4,176.74 | $542.98 |
| 711-16-101 | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6" | 0.13 | GM | $4,400.00 | $572.00 |
| 711-16-231 | THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6" | 0.13 | GM | $2,085.04 | $271.06 |
| | **Roadway Component Total** | | | | $110,203.54 |

## SHOULDER COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 5.00 / 5.00 |
| Structural Spread Rate | 0 |
| Friction Course Spread Rate | 138 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 393.07 | SY | $3.17 | $1,246.03 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 27.12 | TN | $140.00 | $3,796.80 |
| 570-1-1 | PERFORMANCE TURF | 209.90 | SY | $1.25 | $262.38 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-11 | FLOATING TURBIDITY BARRIER | 6.70 | LF | $13.76 | $92.19 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 6.70 | LF | $7.34 | $49.18 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 | EA | $201.67 | $201.67 |
| 107-1 | LITTER REMOVAL | 0.16 | AC | $37.59 | $6.01 |
| 107-2 | MOWING | 0.16 | AC | $61.07 | $9.77 |
| | **Shoulder Component Total** | | | | $5,664.03 |

## SIGNALIZATIONS COMPONENT

**Signalization 1**

| Description | Value |
|---|---|
| Type | Miscellaneous |
| Multiplier | 1 |
| Description | Loops at SR 30 (US 98) Intersection |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 630-2-11 | CONDUIT, F& I, OPEN TRENCH | 148.00 | LF | $7.58 | $1,121.84 |
| 630-2-12 | CONDUIT, F& I, DIRECTIONAL BORE | 124.00 | LF | $19.50 | $2,418.00 |
| 632-7-1 | SIGNAL CABLE- NEW OR RECO, FUR & INSTALL | 1.00 | PI | $5,381.72 | $5,381.72 |
| 635-2-12 | PULL & SPLICE BOX, F&I, 24" X 36" | 4.00 | EA | $1,447.39 | $5,789.56 |
| 660-4-11 | VEHICLE DETECTION SYSTEM-VIDEO, CABINET | 1.00 | EA | $12,960.37 | $12,960.37 |
| 660-4-12 | VEHICLE DETECTION SYSTEM-VIDEO, ABOVE G | 4.00 | EA | $3,251.24 | $13,004.96 |
| 670-5-110 | TRAF CNTL ASSEM, F&I, NEMA | 1.00 | AS | $26,965.01 | $26,965.01 |
| 670-5-600 | TRAF CNTL ASSEM, REMOVE | 1.00 | AS | $509.95 | $509.95 |
| 684-1-1 | MANAGED FIELD ETHERNET SWITCH, F&I | 1.00 | EA | $2,402.90 | $2,402.90 |
| | **Signalizations Component Total** | | | | $70,554.31 |

**Sequence 1 Total** $186,421.88

**Sequence:** 2 RSU - Resurfacing, Undivided **Net Length:** 1.793 MI
9,467 LF

**Description:** SEC 48110000 (CMP 4.038-5.831), Urban, MR 2-10' Lanes, 2-2' Shoulders, plus incidentals

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 10.00 / 10.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 21,037.87 | SY | $3.16 | $66,479.67 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 1,735.62 | TN | $120.00 | $208,274.40 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 1,451.61 | TN | $140.00 | $203,225.40 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 242.00 | EA | $4.29 | $1,038.18 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 3.59 | GM | $986.25 | $3,540.64 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 1.79 | GM | $652.63 | $1,168.21 |
| 711-16-101 | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6" | 3.59 | GM | $4,400.00 | $15,796.00 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 3.59 | GM | $4,400.00 | $15,796.00 |
| 711-16-231 | THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6" | 1.79 | GM | $2,085.04 | $3,732.22 |
| | **Roadway Component Total** | | | | $519,050.72 |

## SHOULDER COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 10.00 / 10.00 |

| | |
|---|---|
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 2.00 / 2.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 4,207.57 | SY | $3.16 | $13,295.92 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 347.12 | TN | $120.00 | $41,654.40 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 290.32 | TN | $140.00 | $40,644.80 |
| 570-1-1 | PERFORMANCE TURF | 5,617.11 | SY | $1.25 | $7,021.39 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-11 | FLOATING TURBIDITY BARRIER | 179.30 | LF | $13.76 | $2,467.17 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 179.30 | LF | $7.34 | $1,316.06 |
| 104-18 | INLET PROTECTION SYSTEM | 4.00 | EA | $201.67 | $806.68 |
| 107-1 | LITTER REMOVAL | 4.34 | AC | $37.59 | $163.14 |
| 107-2 | MOWING | 4.34 | AC | $61.07 | $265.04 |
| | **Shoulder Component Total** | | | | $107,634.60 |

**Sequence 2 Total** $626,685.32

**Sequence:** 3 RSU - Resurfacing, Undivided **Net Length:** 0.237 MI
1,251 LF

**Description:** SEC 48110000 (CMP 5.831-6.113), Urban, MR 2-10' Lanes, 2-4' Paved Shoulders, plus incidentals

**Special Conditions:** Except out bridge 480022 (CMP 5.939-5.984)

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## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 10.00 / 10.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 2,780.80 | SY | $3.16 | $8,787.33 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 229.42 | TN | $120.00 | $27,530.40 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 191.88 | TN | $140.00 | $26,863.20 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 536-1-1 | GUARDRAIL- ROADWAY, GEN TL-3 | 550.00 | LF | $19.78 | $10,879.00 |
| 536-8-13 | APPROACH TRANS CONN TO RIGID BA, F&I, 3 | 2.00 | EA | $2,656.51 | $5,313.02 |
| 536-85-20 | GUARDRAIL END TREAT-TRAILING ANCHORAGE | 2.00 | EA | $1,000.00 | $2,000.00 |
| 713-103-101 | PERMANENT TAPE, WHITE,SOLID,6" CONC BR | 0.09 | GM | $40,000.00 | $3,600.00 |
| 713-103-201 | PERMANENT TAPE, YELLOW,SOLID,6" CONC BR | 0.09 | GM | $40,000.00 | $3,600.00 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 32.00 | EA | $4.29 | $137.28 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.47 | GM | $986.25 | $463.54 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.24 | GM | $652.63 | $156.63 |

| | | | | |
|---|---|---|---|---|
| 711-16-101 | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6" | 0.47 GM | $4,400.00 | $2,068.00 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.47 GM | $4,400.00 | $2,068.00 |
| 711-16-231 | THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6" | 0.24 GM | $2,085.04 | $500.41 |
| | **Roadway Component Total** | | | $93,966.81 |

**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 4.00 / 4.00 |
| Structural Spread Rate | 0 |
| Friction Course Spread Rate | 138 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 1,112.32 | SY | $3.17 | $3,526.05 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 76.75 | TN | $140.00 | $10,745.00 |
| 570-1-1 | PERFORMANCE TURF | 742.47 | SY | $1.25 | $928.09 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-11 | FLOATING TURBIDITY BARRIER | 23.70 | LF | $13.76 | $326.11 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 23.70 | LF | $7.34 | $173.96 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 | EA | $201.67 | $201.67 |
| 107-1 | LITTER REMOVAL | 0.57 | AC | $37.59 | $21.43 |
| 107-2 | MOWING | 0.57 | AC | $61.07 | $34.81 |
| | **Shoulder Component Total** | | | | $15,957.12 |

**Sequence 3 Total** $109,923.93

**Sequence:** 4 RSU - Resurfacing, Undivided **Net Length:** 0.147 MI
776 LF

**Description:** SEC 48110000 (CMP 6.113-6.260), Urban, MR 2-10' Lanes, 2-2' Paved Shoulders, plus incidentals

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 10.00 / 10.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 1,724.80 | SY | $3.16 | $5,450.37 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 142.30 | TN | $120.00 | $17,076.00 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 119.01 | TN | $140.00 | $16,661.40 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | N |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 2 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 2 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 20.00 | EA | $4.29 | $85.80 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.59 | GM | $986.25 | $581.89 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.29 | GM | $652.63 | $189.26 |
| | **Roadway Component Total** | | | | $40,044.72 |

## SHOULDER COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 2.00 / 2.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |
| Total Width (T) / 8" Overlap (O) | T |

Rumble Strips ï¿½No. of Sides 0

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 344.96 | SY | $3.16 | $1,090.07 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 28.46 | TN | $120.00 | $3,415.20 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 23.80 | TN | $140.00 | $3,332.00 |
| 570-1-1 | PERFORMANCE TURF | 460.52 | SY | $1.25 | $575.65 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-11 | FLOATING TURBIDITY BARRIER | 14.70 | LF | $13.76 | $202.27 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 14.70 | LF | $7.34 | $107.90 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 | EA | $201.67 | $201.67 |
| 107-1 | LITTER REMOVAL | 0.36 | AC | $37.59 | $13.53 |
| 107-2 | MOWING | 0.36 | AC | $61.07 | $21.99 |
| | **Shoulder Component Total** | | | | $8,960.28 |

**Sequence 4 Total** $49,005.00

**Sequence:** 5 RSU - Resurfacing, Undivided **Net Length:** 0.235 MI
1,241 LF

**Description:** SEC 48110000 (CMP 6.260-6.495), Urban, MR 2-11' Lanes, 9' Paved Shoulder Left, 5' Paved Shoulder Right, plus incidentals

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 11.00 / 11.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 3,033.07 | SY | $3.16 | $9,584.50 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 250.23 | TN | $120.00 | $30,027.60 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 209.28 | TN | $140.00 | $29,299.20 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | N |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 2 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 2 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 32.00 | EA | $4.29 | $137.28 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.94 | GM | $986.25 | $927.08 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.47 | GM | $652.63 | $306.74 |
| | **Roadway Component Total** | | | | $70,282.40 |

## SHOULDER COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 14.00 / 11.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 9.00 / 5.00 |
| Structural Spread Rate | 0 |
| Friction Course Spread Rate | 138 |
| Total Width (T) / 8" Overlap (O) | T |

Rumble Strips ï¿½No. of Sides 0

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 1,930.13 | SY | $3.17 | $6,118.51 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 133.18 | TN | $140.00 | $18,645.20 |
| 570-1-1 | PERFORMANCE TURF | 736.21 | SY | $1.25 | $920.26 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-11 | FLOATING TURBIDITY BARRIER | 23.50 | LF | $13.76 | $323.36 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 23.50 | LF | $7.34 | $172.49 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 | EA | $201.67 | $201.67 |
| 107-1 | LITTER REMOVAL | 0.57 | AC | $37.59 | $21.43 |
| 107-2 | MOWING | 0.57 | AC | $61.07 | $34.81 |
| | **Shoulder Component Total** | | | | $26,437.73 |

**Sequence 5 Total** $96,720.13

**Sequence:** 6 RSU - Resurfacing, Undivided **Net Length:** 0.487 MI 2,571 LF

**Description:** SEC 48110000 (CMP 6.495-6.982), Urban, MR 2-10' Lanes, 2-2' Paved Shoulders, plus incidentals

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 10.00 / 10.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 5,714.13 | SY | $3.16 | $18,056.65 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 471.42 | TN | $120.00 | $56,570.40 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 394.28 | TN | $140.00 | $55,199.20 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 66.00 | EA | $4.29 | $283.14 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.97 | GM | $986.25 | $956.66 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.49 | GM | $652.63 | $319.79 |
| 711-16-101 | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6" | 0.97 | GM | $4,400.00 | $4,268.00 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.97 | GM | $4,400.00 | $4,268.00 |
| 711-16-231 | THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6" | 0.49 | GM | $2,085.04 | $1,021.67 |
| | **Roadway Component Total** | | | | $140,943.51 |

## SHOULDER COMPONENT

**User Input Data**

| Description | Value |
|---|---|

| | |
|---|---|
| Total Outside Shoulder Width L/R | 6.00 / 6.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 2.00 / 2.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 1,142.83 | SY | $3.16 | $3,611.34 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 94.28 | TN | $120.00 | $11,313.60 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 78.86 | TN | $140.00 | $11,040.40 |
| 570-1-1 | PERFORMANCE TURF | 1,525.67 | SY | $1.25 | $1,907.09 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-11 | FLOATING TURBIDITY BARRIER | 48.70 | LF | $13.76 | $670.11 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 48.70 | LF | $7.34 | $357.46 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 | EA | $201.67 | $201.67 |
| 107-1 | LITTER REMOVAL | 1.18 | AC | $37.59 | $44.36 |
| 107-2 | MOWING | 1.18 | AC | $61.07 | $72.06 |
| | **Shoulder Component Total** | | | | $29,218.09 |

**Sequence 6 Total** $170,161.60

**Sequence:** 7 RSU - Resurfacing, Undivided **Net Length:** 0.324 MI
1,711 LF

**Description:** SEC 48110000 (CMP 6.982-7.306), Urban, MR 2-11' Lanes, 12' Paved Median, 2-2' Paved Shoulders, plus incidentals

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**ROADWAY COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 3 |
| Roadway Pavement Width L/R | 17.00 / 17.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 6,462.72 | SY | $3.16 | $20,422.20 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 533.17 | TN | $120.00 | $63,980.40 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 445.93 | TN | $140.00 | $62,430.20 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 2 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 175.00 | EA | $4.29 | $750.75 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.65 | GM | $986.25 | $641.06 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.65 | GM | $652.63 | $424.21 |
| 711-16-101 | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6" | 0.65 | GM | $4,400.00 | $2,860.00 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.65 | GM | $4,400.00 | $2,860.00 |
| 711-16-231 | THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6" | 0.65 | GM | $2,085.04 | $1,355.28 |
| | **Roadway Component Total** | | | | $155,724.10 |

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**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|

| | |
|---|---|
| Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 2.00 / 2.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 760.32 | SY | $3.16 | $2,402.61 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 62.73 | TN | $120.00 | $7,527.60 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 52.46 | TN | $140.00 | $7,344.40 |
| 570-1-1 | PERFORMANCE TURF | 1,015.03 | SY | $1.25 | $1,268.79 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-11 | FLOATING TURBIDITY BARRIER | 32.40 | LF | $13.76 | $445.82 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 32.40 | LF | $7.34 | $237.82 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 | EA | $201.67 | $201.67 |
| 107-1 | LITTER REMOVAL | 0.78 | AC | $37.59 | $29.32 |
| 107-2 | MOWING | 0.78 | AC | $61.07 | $47.63 |
| | **Shoulder Component Total** | | | | $19,505.66 |

**Sequence 7 Total** $175,229.76

**Sequence:** 8 RSU - Resurfacing, Undivided **Net Length:** 0.228 MI
1,204 LF

**Description:** SEC 48110000 (CMP 7.306-7.534), Urban, MR 2-11' Lanes, 11' Paved Median, 2-2' Paved Shoulders, plus incidentals

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 3 |
| Roadway Pavement Width L/R | 16.50 / 16.50 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 4,414.08 | SY | $3.16 | $13,948.49 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 364.16 | TN | $120.00 | $43,699.20 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 304.57 | TN | $140.00 | $42,639.80 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | N |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 2 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 2 |
| Skip Stripe No. of Stripes | 2 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 123.00 | EA | $4.29 | $527.67 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.91 | GM | $986.25 | $897.49 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.91 | GM | $652.63 | $593.89 |
| | **Roadway Component Total** | | | | $102,306.54 |

## SHOULDER COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 2.00 / 2.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 535.04 | SY | $3.16 | $1,690.73 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 44.14 | TN | $120.00 | $5,296.80 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 36.92 | TN | $140.00 | $5,168.80 |
| 570-1-1 | PERFORMANCE TURF | 714.28 | SY | $1.25 | $892.85 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-11 | FLOATING TURBIDITY BARRIER | 22.80 | LF | $13.76 | $313.73 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 22.80 | LF | $7.34 | $167.35 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 | EA | $201.67 | $201.67 |
| 107-1 | LITTER REMOVAL | 0.55 | AC | $37.59 | $20.67 |
| 107-2 | MOWING | 0.55 | AC | $61.07 | $33.59 |

**Shoulder Component Total** $13,786.19

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**SIGNALIZATIONS COMPONENT**

**Signalization 1**

| Description | Value |
|---|---|
| Type | Miscellaneous |
| Multiplier | 1 |
| Description | Loops at SR 173 Intersection |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 630-2-11 | CONDUIT, F& I, OPEN TRENCH | 148.00 | LF | $7.58 | $1,121.84 |
| 630-2-12 | CONDUIT, F& I, DIRECTIONAL BORE | 148.00 | LF | $19.50 | $2,886.00 |
| 632-7-1 | SIGNAL CABLE- NEW OR RECO, FUR & INSTALL | 1.00 | PI | $5,381.72 | $5,381.72 |
| 635-2-12 | PULL & SPLICE BOX, F&I, 24" X 36" | 4.00 | EA | $1,447.39 | $5,789.56 |
| 660-4-11 | VEHICLE DETECTION SYSTEM-VIDEO, CABINET | 1.00 | EA | $12,960.37 | $12,960.37 |
| 660-4-12 | VEHICLE DETECTION SYSTEM-VIDEO, ABOVE G | 4.00 | EA | $3,251.24 | $13,004.96 |
| 670-5-110 | TRAF CNTL ASSEM, F&I, NEMA | 1.00 | AS | $26,965.01 | $26,965.01 |
| 670-5-600 | TRAF CNTL ASSEM, REMOVE | 1.00 | AS | $509.95 | $509.95 |
| 684-1-1 | MANAGED FIELD ETHERNET SWITCH, F&I | 1.00 | EA | $2,402.90 | $2,402.90 |

**Signalizations Component Total** $71,022.31

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**Sequence 8 Total** $187,115.04

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**Sequence:** 9 RSU - Resurfacing, Undivided **Net Length:** 0.322 MI 1,700 LF

**Description:** SEC 48110000 (CMP 7.534-7.856), Urban, MR 2-10' Lanes, 2-2' Paved Shoulders, plus incidentals

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**ROADWAY COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 10.00 / 10.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 3,778.13 | SY | $3.16 | $11,938.89 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 311.70 | TN | $120.00 | $37,404.00 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 260.69 | TN | $140.00 | $36,496.60 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 43.00 | EA | $4.29 | $184.47 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.64 | GM | $986.25 | $631.20 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.32 | GM | $652.63 | $208.84 |
| 711-16-101 | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6" | 0.64 | GM | $4,400.00 | $2,816.00 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.64 | GM | $4,400.00 | $2,816.00 |
| 711-16-231 | THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6" | 0.32 | GM | $2,085.04 | $667.21 |
| | **Roadway Component Total** | | | | $93,163.21 |

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**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|

| | |
|---|---|
| Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 2.00 / 2.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 755.63 | SY | $3.16 | $2,387.79 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 62.34 | TN | $120.00 | $7,480.80 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 52.14 | TN | $140.00 | $7,299.60 |
| 570-1-1 | PERFORMANCE TURF | 1,008.76 | SY | $1.25 | $1,260.95 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-11 | FLOATING TURBIDITY BARRIER | 32.20 | LF | $13.76 | $443.07 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 32.20 | LF | $7.34 | $236.35 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 | EA | $201.67 | $201.67 |
| 107-1 | LITTER REMOVAL | 0.78 | AC | $37.59 | $29.32 |
| 107-2 | MOWING | 0.78 | AC | $61.07 | $47.63 |
| | **Shoulder Component Total** | | | | $19,387.18 |

**Sequence 9 Total** $112,550.39

**Sequence:** 10 RSU - Resurfacing, Undivided **Net Length:** 0.276 MI 1,457 LF

**Description:** SEC 48110000 (CMP 7.856-8.132), Urban, MR 2-12' Lanes, 12' Paved Median, 2' Paved Shoulders, plus incidentals

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 3 |
| Roadway Pavement Width L/R | 18.00 / 18.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 5,829.12 | SY | $3.16 | $18,420.02 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 480.90 | TN | $120.00 | $57,708.00 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 402.21 | TN | $140.00 | $56,309.40 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 2 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 149.00 | EA | $4.29 | $639.21 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.55 | GM | $986.25 | $542.44 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.55 | GM | $652.63 | $358.95 |
| 711-16-101 | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6" | 0.55 | GM | $4,400.00 | $2,420.00 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.55 | GM | $4,400.00 | $2,420.00 |
| 711-16-231 | THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6" | 0.55 | GM | $2,085.04 | $1,146.77 |
| | **Roadway Component Total** | | | | $139,964.79 |

## SHOULDER COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |

| | |
|---|---|
| Paved Outside Shoulder Width L/R | 2.00 / 2.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 647.68 | SY | $3.16 | $2,046.67 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 53.43 | TN | $120.00 | $6,411.60 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 44.69 | TN | $140.00 | $6,256.60 |
| 570-1-1 | PERFORMANCE TURF | 864.65 | SY | $1.25 | $1,080.81 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-11 | FLOATING TURBIDITY BARRIER | 27.60 | LF | $13.76 | $379.78 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 27.60 | LF | $7.34 | $202.58 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 | EA | $201.67 | $201.67 |
| 107-1 | LITTER REMOVAL | 0.67 | AC | $37.59 | $25.19 |
| 107-2 | MOWING | 0.67 | AC | $61.07 | $40.92 |
| | **Shoulder Component Total** | | | | $16,645.82 |

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**SIGNALIZATIONS COMPONENT**

**Signalization 1**

| Description | Value |
|---|---|
| Type | 4 Lane Mast Arm |
| Multiplier | 1 |
| Description | Mast Arms at SR 727 Intersection |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 630-2-11 | CONDUIT, F& I, OPEN TRENCH | 750.00 | LF | $7.58 | $5,685.00 |
| 630-2-12 | CONDUIT, F& I, DIRECTIONAL BORE | 250.00 | LF | $19.50 | $4,875.00 |
| 632-7-1 | SIGNAL CABLE- NEW OR RECO, FUR & INSTALL | 1.00 | PI | $5,381.72 | $5,381.72 |
| 635-2-11 | PULL & SPLICE BOX, F&I, 13" x 24" | 16.00 | EA | $600.00 | $9,600.00 |
| 639-1-112 | ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON | 1.00 | AS | $1,218.43 | $1,218.43 |
| 639-2-1 | ELECTRICAL SERVICE WIRE, F&I | 60.00 | LF | $1.71 | $102.60 |
| 649-21-10 | STEEL MAST ARM ASSEMBLY, F&I, 60' | 4.00 | EA | $42,296.31 | $169,185.24 |
| 650-1-14 | VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W | 12.00 | AS | $974.55 | $11,694.60 |
| 653-1-11 | PEDESTRIAN SIGNAL, F&I LED | 8.00 | AS | $685.27 | $5,482.16 |

| | | | | | |
|---|---|---|---|---|---|
| | COUNT, 1 WAY | | | | |
| 665-1-11 | PEDESTRIAN DETECTOR, F&I, STANDARD | 8.00 | EA | $231.17 | $1,849.36 |
| 670-5-111 | TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT | 1.00 | AS | $26,786.36 | $26,786.36 |
| 700-3-101 | SIGN PANEL, F&I GM, UP TO 12 SF | 4.00 | EA | $239.72 | $958.88 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 660-4-11 | VEHICLE DETECTION SYSTEM-VIDEO, CABINET | 1.00 | EA | $12,960.37 | $12,960.37 |
| 660-4-12 | VEHICLE DETECTION SYSTEM-VIDEO, ABOVE G | 4.00 | EA | $3,251.24 | $13,004.96 |
| 670-5-110 | TRAF CNTL ASSEM, F&I, NEMA | 1.00 | AS | $26,965.01 | $26,965.01 |
| 684-1-1 | MANAGED FIELD ETHERNET SWITCH, F&I | 1.00 | EA | $2,402.90 | $2,402.90 |
| | **Signalizations Component Total** | | | | $298,152.59 |

**LIGHTING COMPONENT**

**Conventional Lighting Subcomponent**

| Description | Value |
|---|---|
| Spacing | MAX |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 630-2-11 | CONDUIT, F& I, OPEN TRENCH | 200.00 | LF | $7.58 | $1,516.00 |
| 630-2-12 | CONDUIT, F& I, DIRECTIONAL BORE | 500.00 | LF | $19.50 | $9,750.00 |
| 635-2-11 | PULL & SPLICE BOX, F&I, 13" x 24" | 12.00 | EA | $600.00 | $7,200.00 |
| 635-2-12 | PULL & SPLICE BOX, F&I, 24" X 36" | 1.00 | EA | $1,447.39 | $1,447.39 |
| 715-1-13 | LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2 | 1,400.00 | LF | $2.42 | $3,388.00 |
| 715-4-13 | LIGHT POLE COMPLETE, F&I-STD, 40' | 12.00 | EA | $6,237.78 | $74,853.36 |
| 715-500-1 | POLE CABLE DIST SYS, CONVENTIONAL | 12.00 | EA | $582.23 | $6,986.76 |
| | **Subcomponent Total** | | | | $105,141.51 |

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 715-7-12 | LOAD CENTER, F&I, PRIMARY VOLTAGE | 1.00 | EA | $12,066.90 | $12,066.90 |
| | **Lighting Component Total** | | | | $117,208.41 |

**Sequence 10 Total** $571,971.61

**Sequence:** 11 RSU - Resurfacing, Undivided **Net Length:** 0.080 MI 422 LF

**Description:** SEC 48110000 (CMP 8.132-8.140), Urban, MR 2-12' Lanes, 2-5' Paved Shoulders, plus incidentals

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Roadway Pavement Width L/R | 12.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 1,126.40 | SY | $3.16 | $3,559.42 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 92.93 | TN | $120.00 | $11,151.60 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 77.72 | TN | $140.00 | $10,880.80 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | Y |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 1 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 1 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 11.00 | EA | $4.29 | $47.19 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 0.16 | GM | $986.25 | $157.80 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 0.08 | GM | $652.63 | $52.21 |
| 711-16-101 | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6" | 0.16 | GM | $4,400.00 | $704.00 |
| 711-16-201 | THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6" | 0.16 | GM | $4,400.00 | $704.00 |
| 711-16-231 | THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6" | 0.08 | GM | $2,085.04 | $166.80 |
| | **Roadway Component Total** | | | | $27,423.82 |

## SHOULDER COMPONENT

**User Input Data**

| Description | Value |
|---|---|

| | |
|---|---|
| Total Outside Shoulder Width L/R | 10.00 / 10.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 2.67 / 2.67 |
| Paved Outside Shoulder Width L/R | 5.00 / 5.00 |
| Structural Spread Rate | 0 |
| Friction Course Spread Rate | 138 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-12 | MILLING EXIST ASPH PAVT,1 1/4" AVG DEPTH | 469.33 | SY | $3.17 | $1,487.78 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 32.38 | TN | $140.00 | $4,533.20 |
| 570-1-1 | PERFORMANCE TURF | 250.62 | SY | $1.25 | $313.28 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-11 | FLOATING TURBIDITY BARRIER | 8.00 | LF | $13.76 | $110.08 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 8.00 | LF | $7.34 | $58.72 |
| 104-18 | INLET PROTECTION SYSTEM | 1.00 | EA | $201.67 | $201.67 |
| 107-1 | LITTER REMOVAL | 0.19 | AC | $37.59 | $7.14 |
| 107-2 | MOWING | 0.19 | AC | $61.07 | $11.60 |
| | **Shoulder Component Total** | | | | $6,723.47 |

**Sequence 11 Total** $34,147.29

**Sequence:** 12 MIS - Miscellaneous Construction

**Net Length:** 0.000 MI 0 LF

**Description:** Extend Crossdrains

**DRAINAGE COMPONENT**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 430-174-118 | PIPE CULV, OPT MATL, ROUND,18"SD | 48.00 | LF | $78.67 | $3,776.16 |
| 430-174-136 | PIPE CULV, OPT MATL, ROUND,36"SD | 48.00 | LF | $140.60 | $6,748.80 |

**Box Culvert 1**

| Description | Value |
|---|---|
| Size | 2 x 3 |
| Length | 22.00 |
| Multiplier | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 400-4-1 | CONC CLASS IV, CULVERTS | 13.34 | CY | $1,724.47 | $23,004.43 |
| 415-1-1 | REINF STEEL- ROADWAY | 1,319.60 | LB | $1.25 | $1,649.50 |

**Box Culvert 2**

| Description | Value |
|---|---|
| Size | 4 x 3 |
| Length | 26.00 |
| Multiplier | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 400-4-1 | CONC CLASS IV, CULVERTS | 20.22 | CY | $1,724.47 | $34,868.78 |
| 415-1-1 | REINF STEEL- ROADWAY | 2,184.60 | LB | $1.25 | $2,730.75 |

**Box Culvert 3**

| Description | Value |
|---|---|
| Size | 2 x 3 |
| Length | 40.00 |
| Multiplier | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 400-4-1 | CONC CLASS IV, CULVERTS | 18.20 | CY | $1,724.47 | $31,385.35 |
| 415-1-1 | REINF STEEL- ROADWAY | 1,928.00 | LB | $1.25 | $2,410.00 |

**Drainage Component Total** $106,573.77

| | |
|---|---|
| **Sequence 12 Total** | $106,573.77 |

**Sequence:** 13 MIS - Miscellaneous Construction **Net Length:** 0.000 MI 0 LF

**Description:** Replace Bridge Culvert 480127 with Double 8x5 Culvert

**ROADWAY COMPONENT**

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 536-1-1 | GUARDRAIL- ROADWAY, GEN TL-3 | 60.00 | LF | $19.78 | $1,186.80 |
| 536-85-22 | GUARDRAIL END TREA- FLARED APP TERM | 4.00 | EA | $2,564.08 | $10,256.32 |
| | **Roadway Component Total** | | | | $11,443.12 |

**DRAINAGE COMPONENT**

**X-Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-3 | REMOVAL OF EXISTING STRUCTURES/BRIDGES | 720.00 | SF | $60.00 | $43,200.00 |

**Box Culvert 1**

| Description | Value |
|---|---|
| Size | Dbl. 8 x 5 |
| Length | 58.00 |
| Multiplier | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 400-4-1 | CONC CLASS IV, CULVERTS | 102.82 | CY | $1,724.47 | $177,310.01 |
| 415-1-1 | REINF STEEL- ROADWAY | 14,516.80 | LB | $1.25 | $18,146.00 |
| | **Drainage Component Total** | | | | $238,656.01 |

**Sequence 13 Total** $250,099.13

**Sequence:** 14 WUR - Widen/Resurface, Undivided, Rural

**Net Length:** 4.169 MI 22,012 LF

**Description:** Add 4' paved shoulders

## EARTHWORK COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Standard Clearing and Grubbing Limits L/R | 5.00 / 5.00 |
| Incidental Clearing and Grubbing Area | 0.00 |
| Alignment Number | 1 |
| Distance | 4.169 |
| Top of Structural Course For Begin Section | 102.00 |
| Top of Structural Course For End Section | 102.00 |
| Horizontal Elevation For Begin Section | 100.00 |
| Horizontal Elevation For End Section | 100.00 |
| Existing Front Slope L/R | 6 to 1 / 6 to 1 |
| Existing Outside Shoulder Cross Slope L/R | 6.00 % / 6.00 % |
| Front Slope L/R | 6 to 1 / 6 to 1 |
| Outside Shoulder Cross Slope L/R | 6.00 % / 6.00 % |
| Roadway Cross Slope L/R | 2.00 % / 2.00 % |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 110-1-1 | CLEARING & GRUBBING | 5.05 | AC | $15,000.00 | $75,750.00 |
| 120-2-2 | BORROW EXCAVATION, TRUCK MEASURE | 4,728.57 | CY | $22.86 | $108,095.11 |
| | **Earthwork Component Total** | | | | $183,845.11 |

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 2 |
| Existing Roadway Pavement Width L/R | 0.00 / 0.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 80 |
| Widened Outside Pavement Width L/R | 4.00 / 4.00 |
| Widened Structural Spread Rate | 138 |
| Widened Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 160-4 | TYPE B STABILIZATION | 19,566.51 | SY | $6.60 | $129,138.97 |
| 285-701 | OPTIONAL BASE,BASE GROUP 01 | 21,180.74 | SY | $18.00 | $381,253.32 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 1,350.09 | TN | $120.00 | $162,010.80 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 1,350.09 | TN | $140.00 | $189,012.60 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|

| | |
|---|---|
| Include Thermo/Tape/Other | N |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 2 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 2 |
| Skip Stripe No. of Stripes | 1 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 706-3 | RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS | 563.00 | EA | $4.29 | $2,415.27 |
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 16.68 | GM | $986.25 | $16,450.65 |
| 710-11-231 | PAINTED PAVT MARK,STD,YELLOW,SKIP,6" | 8.34 | GM | $652.63 | $5,442.93 |
| | **Roadway Component Total** | | | | $885,724.54 |

## SHOULDER COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Existing Total Outside Shoulder Width L/R | 0.00 / 0.00 |
| New Total Outside Shoulder Width L/R | 0.00 / 0.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 0.00 / 0.00 |
| Existing Paved Outside Shoulder Width L/R | 0.00 / 0.00 |
| New Paved Outside Shoulder Width L/R | 0.00 / 0.00 |
| Structural Spread Rate | 110 |
| Friction Course Spread Rate | 80 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-10-3 | SEDIMENT BARRIER | 50,628.34 | LF | $3.03 | $153,403.87 |
| 104-11 | FLOATING TURBIDITY BARRIER | 416.90 | LF | $13.76 | $5,736.54 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 416.90 | LF | $7.34 | $3,060.05 |
| 104-15 | SOIL TRACKING PREVENTION DEVICE | 5.00 | EA | $3,420.12 | $17,100.60 |
| 104-18 | INLET PROTECTION SYSTEM | 9.00 | EA | $201.67 | $1,815.03 |
| 107-1 | LITTER REMOVAL | 10.09 | AC | $37.59 | $379.28 |
| 107-2 | MOWING | 10.09 | AC | $61.07 | $616.20 |
| | **Shoulder Component Total** | | | | $182,111.57 |

## DRAINAGE COMPONENT

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 400-2-2 | CONC CLASS II, ENDWALLS | 75.04 | CY | $1,479.62 | $111,030.68 |

| | | | | |
|---|---|---|---|---|
| 430-174-124 | PIPE CULV, OPT MATL, ROUND,24"SD | 632.00 LF | $86.39 | $54,598.48 |
| 430-175-136 | PIPE CULV, OPT MATL, ROUND, 36"S/CD | 272.00 LF | $180.47 | $49,087.84 |
| 430-984-129 | MITERED END SECT, OPTIONAL RD, 24" SD | 42.00 EA | $1,540.95 | $64,719.90 |
| 570-1-1 | PERFORMANCE TURF | 1,684.28 SY | $1.25 | $2,105.35 |
| | **Drainage Component Total** | | | $281,542.25 |

**SIGNING COMPONENT**

**Pay Items**

| Pay item | Description | Quantity Unit | Unit Price | Extended Amount |
|---|---|---|---|---|
| 700-1-11 | SINGLE POST SIGN, F&I GM, <12 SF | 9.00 AS | $339.84 | $3,058.56 |
| 700-1-12 | SINGLE POST SIGN, F&I GM, 12-20 SF | 84.00 AS | $1,277.85 | $107,339.40 |
| 700-1-50 | SINGLE POST SIGN, RELOCATE | 9.00 AS | $52.87 | $475.83 |
| 700-1-60 | SINGLE POST SIGN, REMOVE | 84.00 AS | $37.42 | $3,143.28 |
| 700-2-13 | MULTI- POST SIGN, F&I GM, 21-30 SF | 9.00 AS | $4,728.15 | $42,553.35 |
| 700-2-60 | MULTI- POST SIGN, REMOVE | 9.00 AS | $457.09 | $4,113.81 |
| | **Signing Component Total** | | | $160,684.23 |

**Sequence 14 Total** $1,693,907.70

**Sequence:** 15 RSU - Resurfacing, Undivided

**Net Length:** 0.590 MI 3,117 LF

**Description:** Turn Lanes and Side Roads

## ROADWAY COMPONENT

**User Input Data**

| Description | Value |
|---|---|
| Number of Lanes | 1 |
| Roadway Pavement Width L/R | 0.00 / 12.00 |
| Structural Spread Rate | 165 |
| Friction Course Spread Rate | 138 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 4,155.71 | SY | $3.16 | $13,132.04 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 342.85 | TN | $120.00 | $41,142.00 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 286.74 | TN | $140.00 | $40,143.60 |

**Turnouts/Crossovers Subcomponent**

| Description | Value |
|---|---|
| Asphalt Adjustment | 60.00 |
| Milling Code | Y |
| Friction Course Code | Y |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 327-70-15 | MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH | 2,493.43 | SY | $3.16 | $7,879.24 |
| 334-1-53 | SUPERPAVE ASPH CONC, TRAF C, PG76-22 | 205.71 | TN | $120.00 | $24,685.20 |
| 337-7-82 | ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22 | 172.04 | TN | $140.00 | $24,085.60 |

**Pavement Marking Subcomponent**

| Description | Value |
|---|---|
| Include Thermo/Tape/Other | N |
| Pavement Type | Asphalt |
| Solid Stripe No. of Paint Applications | 2 |
| Solid Stripe No. of Stripes | 2 |
| Skip Stripe No. of Paint Applications | 2 |
| Skip Stripe No. of Stripes | 0 |

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | 2.36 | GM | $986.25 | $2,327.55 |
| | **Roadway Component Total** | | | | $153,395.23 |

**SHOULDER COMPONENT**

**User Input Data**

| Description | Value |
|---|---|
| Total Outside Shoulder Width L/R | 0.00 / 0.00 |
| Total Outside Shoulder Perf. Turf Width L/R | 0.00 / 0.00 |
| Paved Outside Shoulder Width L/R | 0.00 / 0.00 |
| Structural Spread Rate | 110 |
| Friction Course Spread Rate | 80 |
| Total Width (T) / 8" Overlap (O) | T |
| Rumble Strips ï¿½No. of Sides | 0 |

**Erosion Control**

**Pay Items**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 104-11 | FLOATING TURBIDITY BARRIER | 59.03 | LF | $13.76 | $812.25 |
| 104-12 | STAKED TURBIDITY BARRIER-NYL REINF PVC | 59.03 | LF | $7.34 | $433.28 |
| 104-18 | INLET PROTECTION SYSTEM | 2.00 | EA | $201.67 | $403.34 |
| 107-1 | LITTER REMOVAL | 1.43 | AC | $37.59 | $53.75 |
| 107-2 | MOWING | 1.43 | AC | $61.07 | $87.33 |
| | **Shoulder Component Total** | | | | $1,789.95 |

**Sequence 15 Total** $155,185.18

Date: 4/5/2019 4:24:13 PM

# FDOT Long Range Estimating System - Production

## R3: Project Details by Sequence Report

**Project:** 443651-1-52-01 **Letting Date:** 09/2021

**Description:** SR 298 FROM SR 30 (US 98)/CR 297 TO E OF SR 727 FAIRFIELD DR

**District:** 03 **County:** 48 ESCAMBIA **Market Area:** 01 **Units:** English
**Contract Class:** 7 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 4.169 MI

**Project Manager:** JORDAN BURNETT

**Version 5-P Project Grand Total** **$6,360,483.47**
**Description:** SR 298 FROM SR 30 (US 98)/CR 297 TO E OF SR 727 FAIRFIELD DR = 3R Candidate Revised after Design Meeting = 2019 6MU = 2/7/2019 = PR

| | | | |
|---|---|---|---|
| **Resurfacing Lane Mile Cost** | | | **$349,093.49** |
| **Project Sequences Subtotal** | | | **$4,525,697.73** |
| 102-1 | Maintenance of Traffic | 10.00 % | $452,569.77 |
| 101-1 | Mobilization | 10.00 % | $497,826.75 |
| **Project Sequences Total** | | | **$5,476,094.25** |
| Project Unknowns | | 15.00 % | $821,414.14 |
| Design/Build | | 0.00 % | $0.00 |

**Non-Bid Components:**

| Pay item | Description | Quantity | Unit | Unit Price | Extended Amount |
|---|---|---|---|---|---|
| 999-25 | INITIAL CONTINGENCY AMOUNT (DO NOT BID) | | LS | $62,975.08 | $62,975.08 |
| **Project Non-Bid Subtotal** | | | | | **$62,975.08** |
| **Version 5-P Project Grand Total** | | | | | **$6,360,483.47** |

## LEGEND

| | | | | | |
|---|---|---|---|---|---|
| AC. | -ACRES | L | -LENGTH | STA. | -STATION |
| ADM. | -ADMINISTRATOR | LB | -LICENSED BUSINESS | ST. | -STREET / SAINT |
| AHD. | -AHEAD | LS | -LICENSED SURVEYOR | T.B. | -TANGENT BEARING |
| ALUM. | -ALUMINUM | L.W.P. | -LIGHT WOOD POST | T.C. | -TANGENT TO CURVE |
| ASPH. | -ASPHALT | L.W.S. | -LIGHT WOOD STAKE | T | -TOWNSHIP OR TANGENT |
| AVE. | -AVENUE | L.E.U.M.V.L. | -LOWER EDGE OF UPLAND MATURE VEGETATION LINE | (UNREC.) | -UNRECORDED |
| BCK. | -BACK | | | W | -WEST |
| ℄ | -BASELINE | M | -METERS | W.P.I. | -WORK PROGRAM ITEM |
| | -CENTERLINE | MAINT. | -MAINTAINED | ○ | -SET ½" (0.013m) REBAR AND CAP, LB 4346, UNLESS OTHERWISE NOTED. |
| (C) | -COMPUTED | M & B | -MARIANNA AND BLOUNTSTOWN | ⚠ | -SET PK NAIL AND DISC LB 4346 |
| COMM. | -COMMERCIAL | ' | -MINUTE OR FEET | | |
| Co. | -COMPANY | MON. | -MONUMENT | | |
| C.M. | -CONCRETE MONUMENT | N.A.D. | -NORTH AMERICAN DATUM | | |
| CONC. | -CONCRETE | N | -NORTH / NORTHERLY | | |
| C.C.R. | -COPPER COATED ROD | N.E. | -NORTHEAST / NORTHEASTERLY | | |
| COR. | -CORNER | N.W. | -NORTHWEST / NORTHWESTERLY | | |
| C.R. | -COUNTY ROAD | N/A | -NOT APPLICABLE | | |
| (D) | -DEED | # | -NUMBER | | |
| ° | -DEGREE | NO. | -NUMBER | | |
| D | -DEGREE OF CURVE | (P) | -PLAT | | |
| △ | -DELTA ANGLE | P.B. | -PLAT BOOK | | |
| D.O.T. | -DEPARTMENT OF TRANSPORTATION | PG. | -PAGE | | |
| DR. | -DRIVE | P.C. | -POINT OF CURVATURE | | |
| E | -EAST | P.I. | -POINT OF INTERSECTION | | |
| ETAL. | -AND OTHERS | P.T. | -POINT OF TANGENCY | | |
| ETUX. | -AND WIFE | P.O.T. | -POINT ON TANGENT | | |
| ETVIR. | -AND HUSBAND | PRELIM. | -PRELIMINARY | | |
| EXIST. | -EXISTING | P.L.S. | -PROFESSIONAL LAND SURVEYOR | | |
| F.A. | -FEDERAL AID | | -PROPERTY LINE | | |
| ft. | -FEET | R | -RADIUS OR RANGE | | |
| F.C. | -FENCE CORNER | R.R. | -RAILROAD | | |
| (F) | -FIELD | R.L.S. | -REGISTERED LAND SURVEYOR | | |
| (FA) | -FIELD ADJUSTED | RES. | -RESIDENTIAL | | |
| FL | -FLORIDA | RT. | -RIGHT | | |
| F.D.O.T. | -FLORIDA DEPARTMENT OF TRANSPORTATION | R/W | -RIGHT OF WAY | | |
| FND. | -FOUND | RD. | -ROAD | | |
| I.D. | -IDENTIFICATION | " | -SECOND OR INCH | | |
| INC. | -INCORPORATED | SEC. | -SECTION | | |
| I | -INTERSTATE | S | -SOUTH | | |
| I.P. | -IRON PIPE | S.E. | -SOUTHEAST / SOUTHEASTERLY | | |
| I.R. | -IRON ROD | S.W. | -SOUTHWEST / SOUTHWESTERLY | | |
| LT. | -LEFT | sq. | -SQUARE | | |
| | | S.R. | -STATE ROAD | | |

## INDEX

| SHEET NO. | SHEET DESCRIPTION |
|---|---|
| 1-16 | Detail Sheet's |
| 17 | Detail Sheet & Reference Points |

FILED FOR RECORD IN THE OFFICE CLERK OF THE CIRCUT COURT FOR THE COUNTY OF ESCAMBIA STATE OF FLORIDA, IN ROAD PLAT BOOK 2, PAGE 18, ON THE 21 DAY OF FEB, A.D.,19 97.

ERNIE LEE MAGAHA
CLERK OF THE CIRCUT COURT
ESCAMBIA COUNTY, FLORIDA

THIS IS TO CERTIFY THAT THE WITHIN AND ATTACHED SHEETS NUMBERED 1 TO 17, INCLUSIVE, CONSTITUTE A TRUE COPY OF THE OFFICIAL MAINTENANCE MAP SHOWING LOCATION AND SURVEY BY THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FOR A PORTION OF STATE ROAD 298, DESIGNATED AS SECTION 48110 IN ESCAMBIA COUNTY, FLORIDA.

THE PROPERTY LABELED MAINTAINED R/W ON SAID SHEETS HAS BEEN VESTED IN THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO THE PROVISION OF SECTION 95.361 FLORIDA STATUTES.

IN WITNESS WHEREOF, WE HAVE HEREUNTO SET OUR HANDS AND AFFIXED THE SEAL OF THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, AT CHIPLEY, FLORIDA, THIS 10th DAY OF February, A.D.,19 97.

DISTRICT SECRETARY
DEPARTMENT OF TRANSPORTATION
STATE OF FLORIDA

(ATTESTOR)

GENERAL NOTES:
BEARINGS ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH ZONE, LAMBERT PROJECTION.

CONVERSIONS HAVE BEEN BASED UPON THE U.S. SURVEY FOOT

(ENGLISH) TO METRIC: (12/39.37) x feet=m
METRIC TO (ENGLISH): (39.37/12) x m=feet

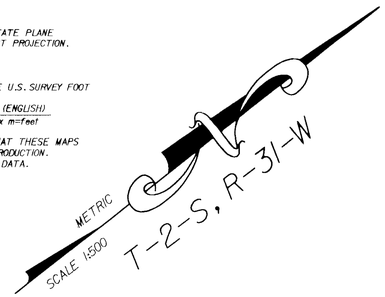
ATTENTION IS DIRECTED TO THE FACT THAT THESE MAPS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN SCALING DATA.

### CONVERGENCE DATA TABLE

| STATION | X(EASTING) | Y(NORTHING) | CONVERGENCE | SCALE FACTOR |
|---|---|---|---|---|
| 30+00.000 | 333450.8255 | 158949.3000 | 01°23'38.92" | 0.99995698 |
| 30+69.959 | 333460.1259 | 159018.6386 | 01°23'38.78" | 0.99995702 |
| 31+72.018 | 333534.7345 | 159090.2930 | 01°23'37.41" | 0.99995707 |
| 35+71.715 | 333669.4913 | 159468.7036 | 01°23'35.04" | 0.99995732 |
| 43+94.069 | 334178.2368 | 160117.9189 | 01°23'25.76" | 0.99995777 |
| 50+42.556 | 334771.5301 | 160397.7465 | 01°23'14.72" | 0.99995797 |
| 52+27.961 | 334947.6610 | 160456.1292 | 01°23'11.43" | 0.99995801 |
| 58+04.247 | 335461.3108 | 160718.0051 | 01°23'01.88" | 0.99995820 |
| 60+54.635 | 335675.1202 | 160848.4048 | 01°22'57.92" | 0.99995829 |
| 63+15.808 | 335911.0832 | 160960.6077 | 01°22'53.53" | 0.99995838 |
| 68+67.795 | 336384.5882 | 161244.4352 | 01°22'44.74" | 0.99995858 |
| 86+23.907 | 338109.6221 | 160845.8927 | 01°22'12.09" | 0.99995833 |
| 96+28.727 | 339115.9176 | 160858.6736 | 01°21'53.15" | 0.99995836 |
| 98+58.636 | 339345.2203 | 160840.5627 | 01°21'48.82" | 0.99995835 |

DATUM: NAD 83
ZONE: N
STATE PLANE IN: METERS
BEARING ON NORTH LAMBERT ZONE GRID

P.I. STA. 31+72.018
△ - 26°33'21" Lt.
T - 55.457m
L - 108.922m
R - 235.006m
P.C. STA. 31+16.561
P.T. STA. 32+25.483




GRAPHIC SCALE
0m 10m 20m 30m 40m 50m
SCALE 1:500

HAVEN PARK
PLAT BOOK 1, PAGE 37A

BEGIN SURVEY
STA. 30+00.000 (℄ S.R. 298)=
STA. 8+84.463 (℄ U.S. 98)

℄ SURVEY
P.I. STA. 8+59.568
△ - 16°14'00" Rt.
T - 166.048m
L - 329.872m
R - 1164.287m
P.C. STA. 6+93.520
P.T. STA. 10+23.392

P.I. STA. 30+69.959
△ - 38°31'04" Rt.
T - 18.254m
L - 35.122m
R - 52.245m
P.C. STA. 30+51.705
P.T. STA. 30+86.827

SET ½" REBAR/CAP LB 4346

THIS SURVEY WAS PERFORMED FOR THE SPECIFIC PURPOSE OF ESTABLISHING A SURVEY CENTERLINE OR BASELINE AND LOCATING THE LIMITS OF MAINTAINED RIGHT OF WAY AS IDENTIFIED BY THE MAINTENANCE ENGINEER FOR THE TRANSPORTATION FACILITY SHOWN AND DEPICTED HEREON. I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS IS A TRUE, ACCURATE AND COMPLETE DEPICTION OF A FIELD SURVEY PERFORMED UNDER MY DIRECTION AND COMPLETED ON DECEMBER 15, 1995. I FURTHER CERTIFY THAT SAID DRAWING ALSO MEETS THE REQUIREMENTS FOR A RIGHT OF WAY CONTROL SURVEY AND IS IN COMPLIANCE WITH THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

JOHN D. JOHNSON
FLORIDA PROFESSIONAL LAND SURVEYOR AND MAPPER NO. 1499
205 E. RAILROAD AVENUE
CHIPLEY, FLORIDA 32428

DATE: 02/07/97

NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER

MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY R.A. Heard DATE 2-07-97
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE |
|---|---|---|
| | | |

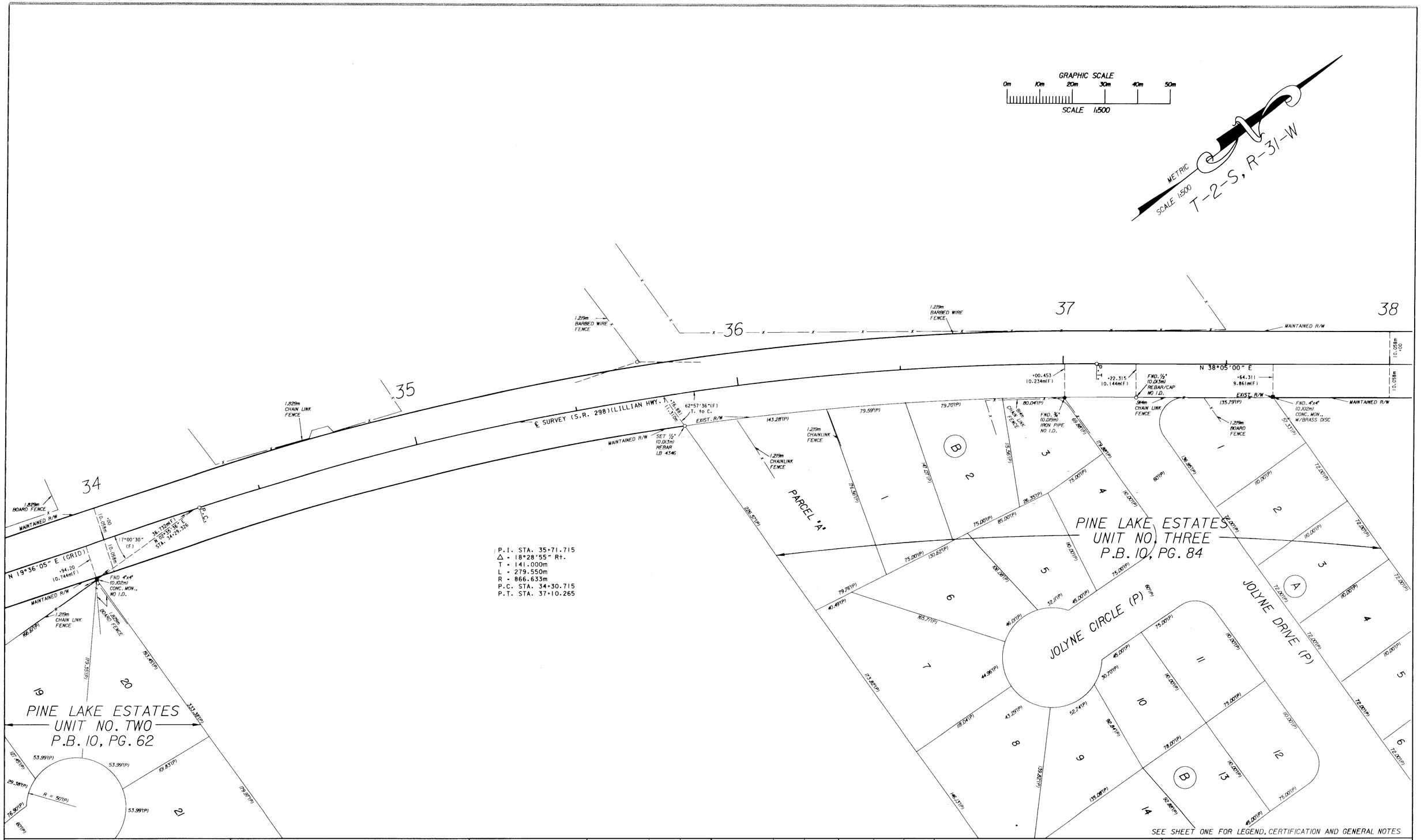
| REVISION | BY | DATE |
|---|---|---|
| | | |

| | BY | DATE |
|---|---|---|
| PRELIM | K.C.W. | 08/31/96 |
| FINAL | K.C.W. | 01/23/97 |
| CHECKED | T.J.T. | 01/24/97 |

F.A. PROJECT NO. N/A
STATE ROAD NO. 298 ESCAMBIA COUNTY
SECTION 48110 SHEET 1 OF 17

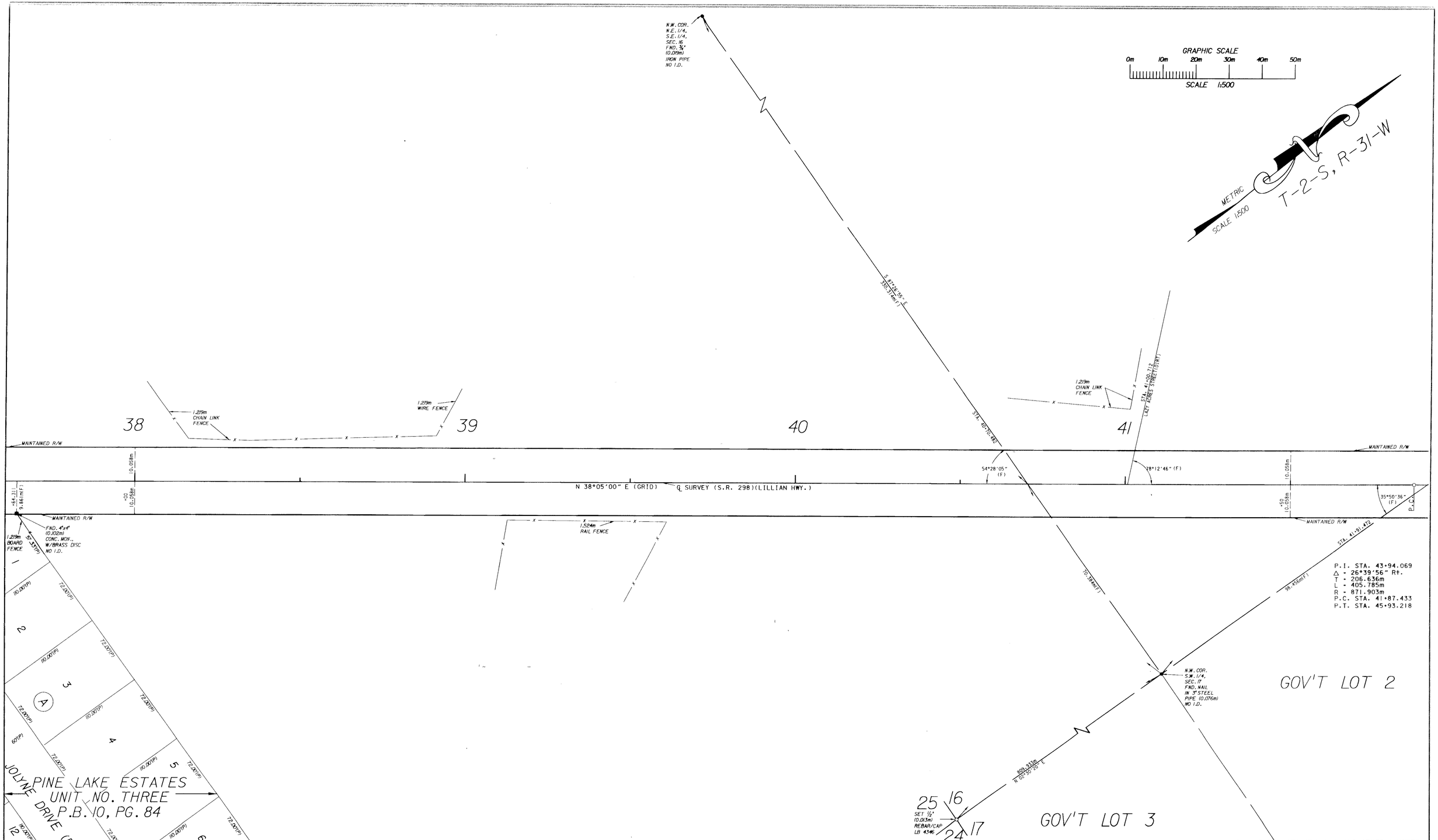
MAPS PREPARED BY JOHNSON SURVEYORS, INC.
W.P.I. NO. 3112002
FIELD BOOK NO.'S 20012843, 20012904
SCALE: 1:500

S.R. 298 (LILLIAN HWY.) FROM C.R. 297 (DOGTRACK ROAD) TO 78th AVENUE




| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R.G. Hood DATE 2-07-97<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A. PROJECT NO. N/A | | MAPS PREPARED BY JOHNSON SURVEYORS, INC. | FIELD BOOK NO.'S 20012843, 20012904 |
| | | | | | | | | | PRELIM | K.C.M. | 08/31/96 | | | W.P.I. NO. 3112002 | SCALE: 1:500 |
| | | | | | | | | | FINAL | K.C.M. | 01/23/97 | STATE ROAD NO. 298 | ESCAMBIA COUNTY | SECTION 48110 | SHEET 2 OF 17 |
| | | | | | | | | | CHECKED | T.J.T. | 01/24/97 | | | | |

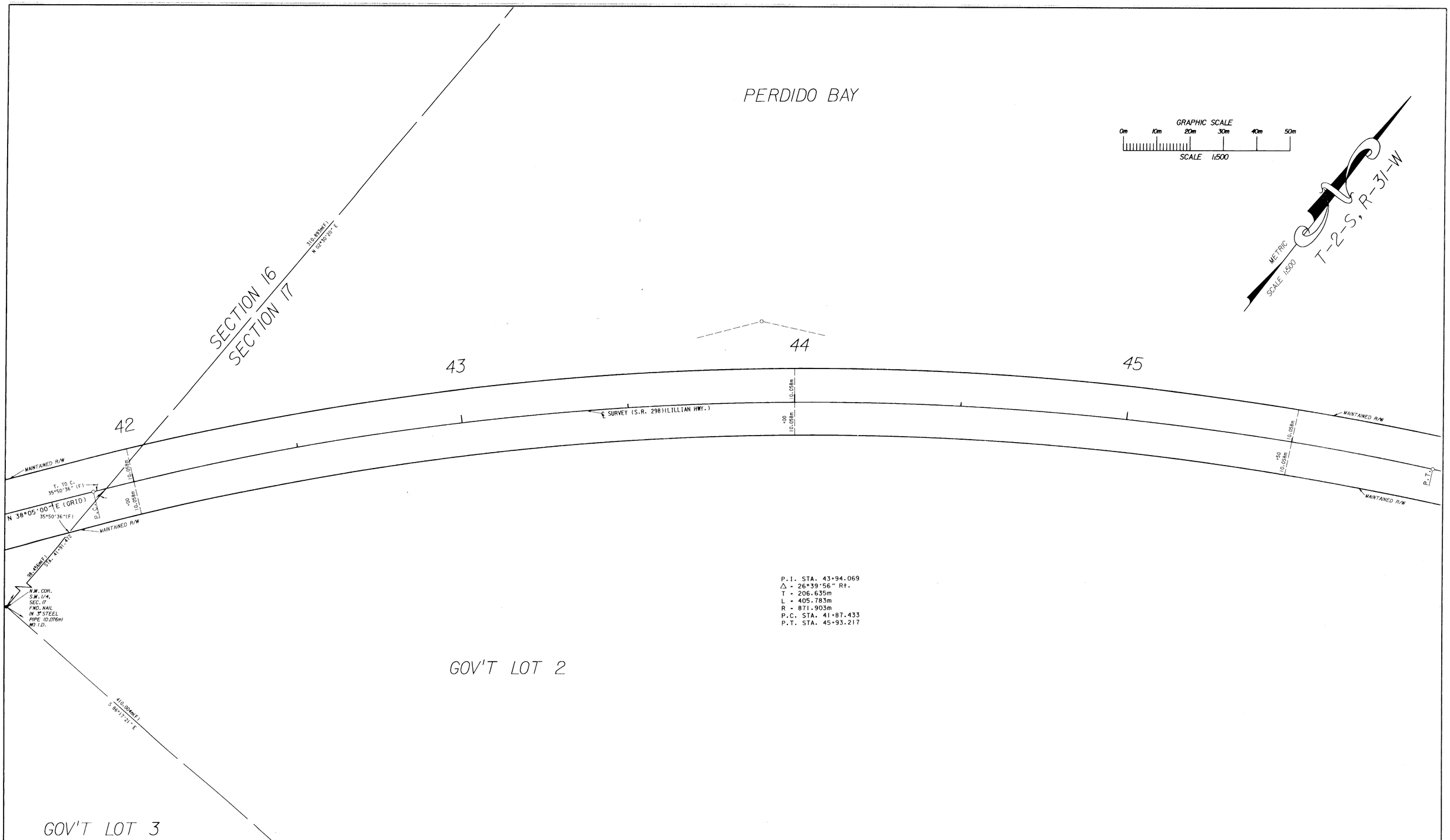
S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE




SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL NOTES

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. B. Hood DATE 2-07-97<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A. PROJECT NO. N/A | | MAPS PREPARED BY JOHNSON SURVEYORS, INC. | FIELD BOOK NO.'S 20012843, 20012904 |
| | | | | | | | | | PRELIM | K.C.M. | 08/31/96 | | | W.P.I. NO. 3112002 | SCALE: 1:500 |
| | | | | | | | | | FINAL | K.C.M. | 01/23/97 | STATE ROAD NO. 298 | ESCAMBIA COUNTY | SECTION 48110 | SHEET 3 OF 17 |
| | | | | | | | | | CHECKED | T.J.T. | 01/24/97 | | | | |

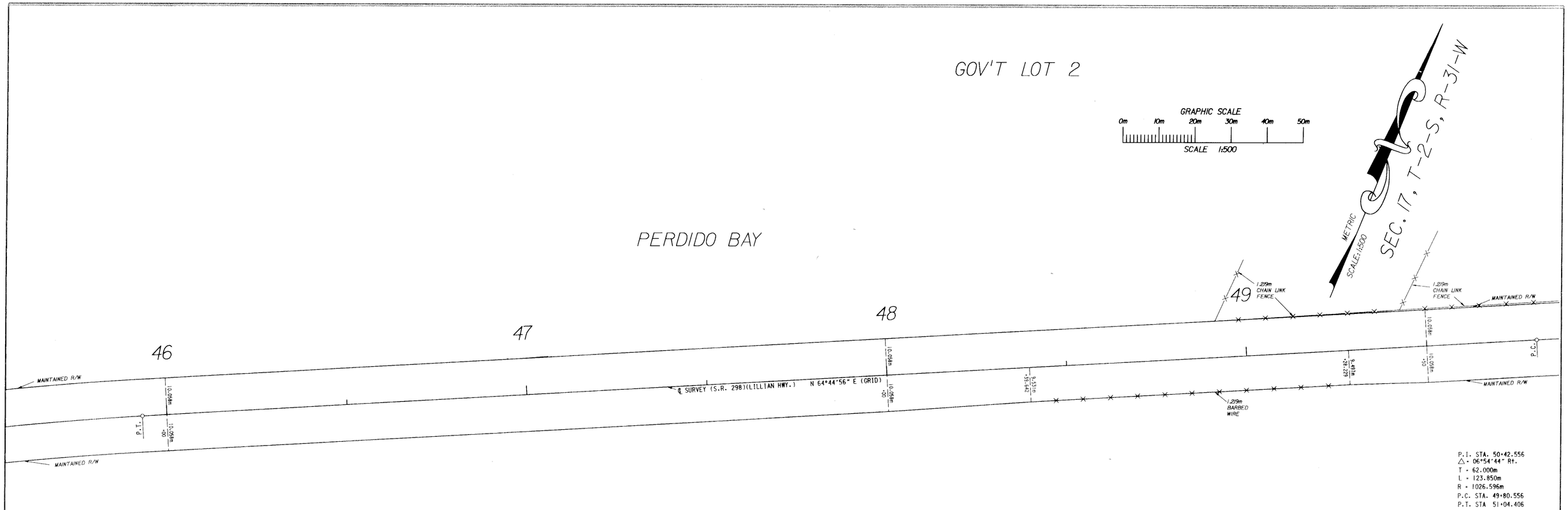
S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE




SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL NOTES

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. L. Hood DATE 2-07-97<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A. PROJECT NO. N/A | | MAPS PREPARED BY JOHNSON SURVEYORS, INC. | FIELD BOOK NO.'S 20012843, 20012904 |
| | | | | | | | | | PRELIM | K.C.M. | 08/31/96 | | | W.P.I. NO. 3112002 | SCALE: 1:500 |
| | | | | | | | | | FINAL | K.C.M. | 01/23/97 | STATE ROAD NO. 298 | ESCAMBIA COUNTY | SECTION 48110 | SHEET 4 OF 17 |
| | | | | | | | | | CHECKED | T.J.T. | 01/24/97 | | | | |

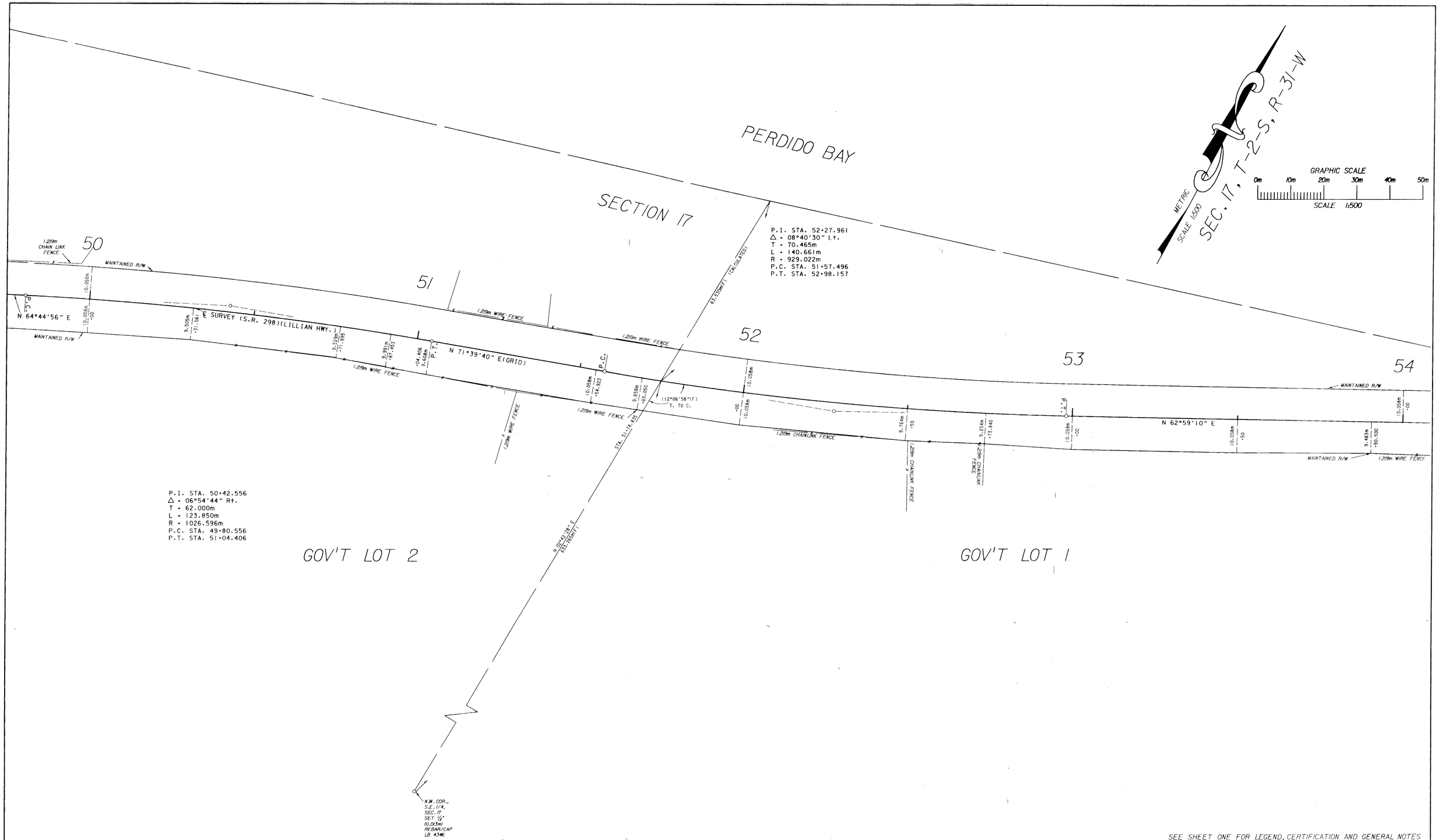
S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE




SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL NOTES

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R G Hood DATE 2-07-97<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A. PROJECT NO. N/A | MAPS PREPARED BY JOHNSON SURVEYORS, INC. | FIELD BOOK NO.'S 20012843, 20012904 |
| | | | | | | | | | PRELIM | K.C.M. | 08/31/96 | | W.P.I. NO. 3112002 | SCALE:1:500 |
| | | | | | | | | | FINAL | T.F.B. | 01/23/97 | STATE ROAD NO. 298 ESCAMBIA COUNTY | SECTION 48110 | SHEET 5 OF 17 |
| | | | | | | | | | CHECKED | T.J.T. | 01/24/97 | | | |

S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE




SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL NOTES

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R. G. Hood DATE 2-07-97<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A. PROJECT NO. N/A | MAPS PREPARED BY JOHNSON SURVEYORS, INC. | FIELD BOOK NO.'S 20012843, 20012904 |
| | | | | | | | | | PRELIM | K.C.M. | 08/31/96 | | W.P.I. NO. 3112002 | SCALE: 1:500 |
| | | | | | | | | | FINAL | K.C.M. | 01/23/97 | STATE ROAD NO. 298 ESCAMBIA COUNTY | SECTION 48110 | SHEET 6 OF 17 |
| | | | | | | | | | CHECKED | T.J.T. | 01/24/97 | | | |

S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE

SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL NOTES

| | | | | |
|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R L Hood DATE 2-07-97<br>DISTRICT SURVEYOR ADMINISTRATOR | F.A. PROJECT NO. N/A | MAPS PREPARED BY JOHNSON SURVEYORS, INC. / FIELD BOOK NO.'S 20012843, 20012904 |
| | | | STATE ROAD NO. 298 ESCAMBIA COUNTY | W.P.I. NO. 3112002 / SCALE: 1:500 |
| | | | | SECTION 48110 / SHEET 7 OF 17 |

| REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|

| | BY | DATE |
|---|---|---|
| PRELIM | K.C.M. | 08/31/96 |
| FINAL | K.C.M. | 01/23/97 |
| CHECKED | T.J.T. | 01/24/97 |

S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE

P.I. STA. 58+04.247
△ - 04°21'53" Lt.
T - 49.741m
L - 99.434m
R - 1305.270m
P.C. STA. 57+54.506
P.T. STA. 58+53.940

T-2-S, R-31-W

METRIC
SCALE 1:500

GRAPHIC SCALE
0m 10m 20m 30m 40m 50m
SCALE 1:500

PERDIDO BAY

PERDIDO TERRACE
PLAT BOOK 4, PAGE 6

EXIST. R/W

58 59 60 61 62

362.875m(F)
N 62°43'21" E
STA. 58+68.972
P.T.
N 58°37'17" E(GRID)
04°06'03"(F)
89°50'21"(F)
P.C.
℄ SURVEY (S.R. 298)(LILLIAN HWY.)
90°20'42" (F)
N 62°43'21" E
240.614m(F)
SET ½" (0.013m) REBAR/CAP LB 4346
117°46'18"(F)
93°37'21"(F)
N 64°34'06" E

0.914m BOARD FENCE
1.067m CHAINLINK FENCE
1.524m CHAINLINK FENCE
1.676m CHAINLINK FENCE

17 18 19 20 21 22 23 24 25 26 27

PERDIDO TERRACE
PLAT BOOK 4, PAGE 6

8 14 13

P.I. STA. 60+54.635
△ - 05°56'49" Rt.
T - 60.534m
L - 120.959m
R - 1165.381m
P.C. STA. 59+94.101
P.T. STA. 61+15.060

N 12°20'25" E
301.753m(F)

GOV'T LOT 2

14 13 17 18

SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL NOTES

MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY R B Hood DATE 2-07-97
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE |
|---|---|---|
| REVISION | BY | DATE |

| | BY | DATE |
|---|---|---|
| PRELIM | K.C.M. | 08/31/96 |
| FINAL | K.C.M. | 01/23/97 |
| CHECKED | T.J.T. | 01/24/97 |

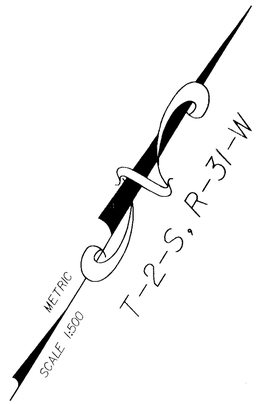
F.A. PROJECT NO. N/A
STATE ROAD NO. 298 ESCAMBIA COUNTY

MAPS PREPARED BY JOHNSON SURVEYORS, INC.
FIELD BOOK NO.'S 20012843, 20012904
W.P.I. NO. 3112002
SCALE: 1:500
SECTION 48110
SHEET 8 OF 17

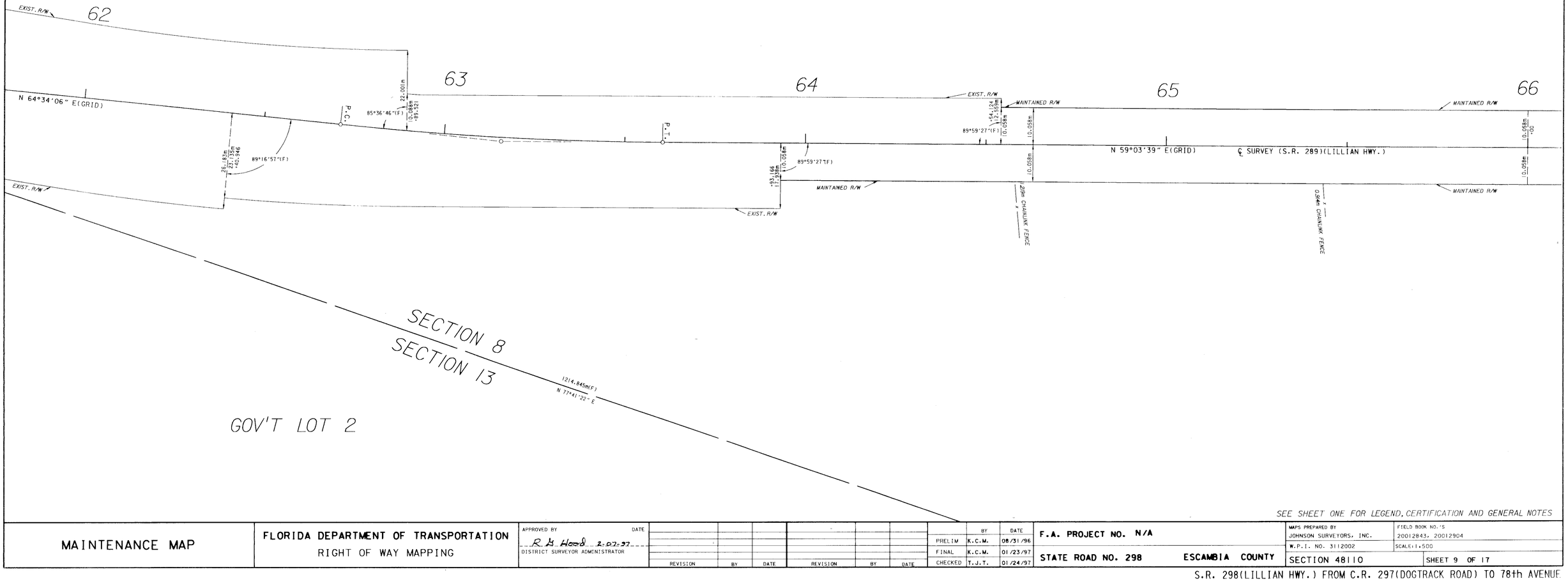
S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE

PERDIDO BAY

P.I. STA. 63+15.808
△ - 05°30'27" Lt.
T - 44.723m
L - 89.377m
R - 929.811m
P.C. STA. 62+71.085
P.T. STA. 63+60.462




GRAPHIC SCALE
0m 10m 20m 30m 40m 50m
SCALE 1:500




SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL NOTES

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY<br>R B Hood | DATE<br>2-07-97 | | | | | | | | | | | | BY | DATE | F.A. PROJECT NO. N/A | | MAPS PREPARED BY<br>JOHNSON SURVEYORS, INC. | | FIELD BOOK NO.'S<br>20012843, 20012904 | |
| | | DISTRICT SURVEYOR ADMINISTRATOR | | | | | | | | | | | PRELIM | K.C.M. | 08/31/96 | | W.P.I. NO. 3112002 | | SCALE 1:500 | |
| | | | | | | | | | | | | | FINAL | K.C.M. | 01/23/97 | STATE ROAD NO. 298 | ESCAMBIA COUNTY | SECTION 48110 | | SHEET 9 OF 17 | |
| | | | | REVISION | BY | DATE | REVISION | BY | DATE | | | | CHECKED | T.J.T. | 01/24/97 | | | | | | |

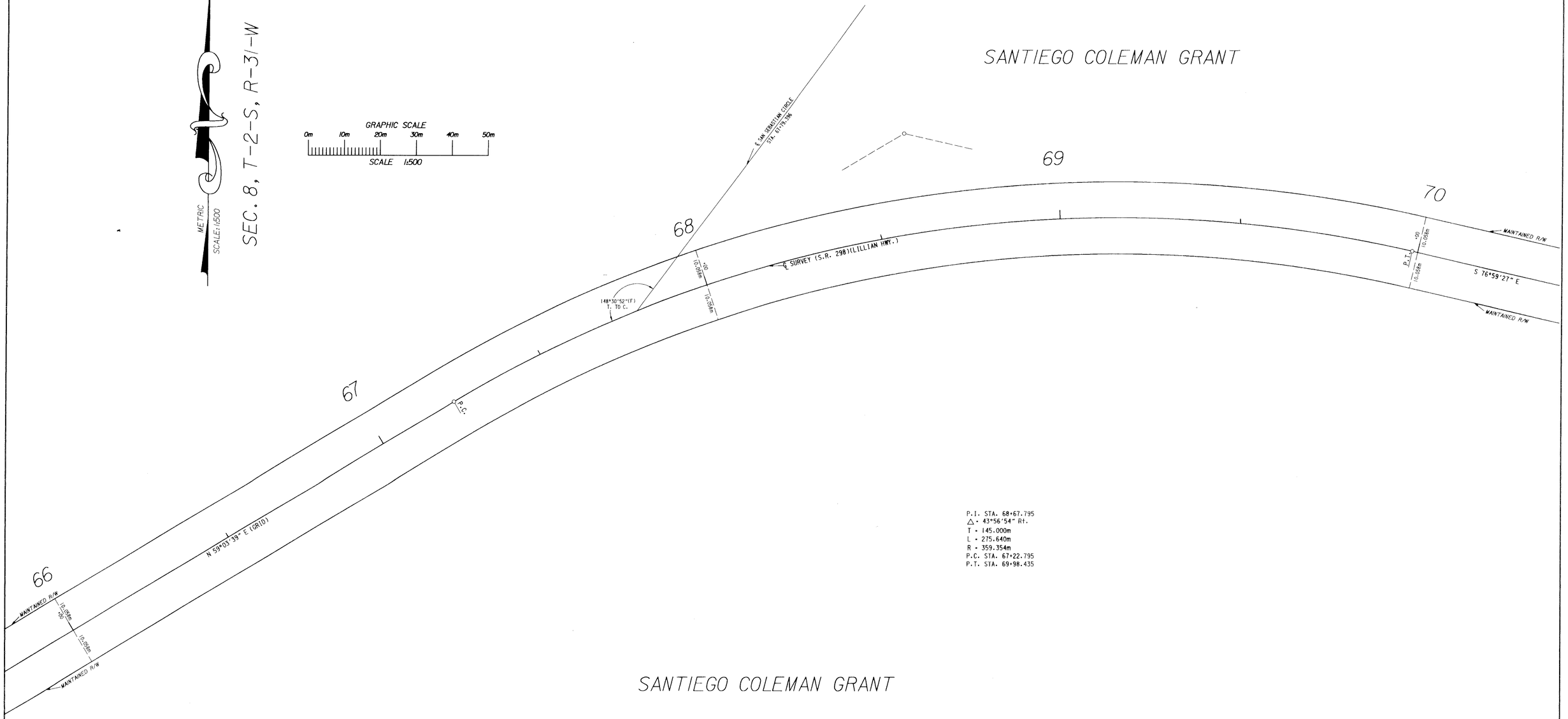
S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE

METRIC
SCALE: 1:500

SEC. 8, T-2-S, R-3/-W

GRAPHIC SCALE
0m 10m 20m 30m 40m 50m
SCALE 1:500

SANTIEGO COLEMAN GRANT




P.I. STA. 68+67.795
△ - 43°56'54" Rt.
T - 145.000m
L - 275.640m
R - 359.354m
P.C. STA. 67+22.795
P.T. STA. 69+98.435

SANTIEGO COLEMAN GRANT

SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL NOTES

MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY R. L. Hood DATE 2-07-97
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|
| | | | | | |

| | BY | DATE |
|---|---|---|
| PRELIM | K.C.M. | 08/26/96 |
| FINAL | T.J.T. | 01/23/97 |
| CHECKED | T.F.B. | 01/24/97 |

F.A. PROJECT NO. N/A

STATE ROAD NO. 298 ESCAMBIA COUNTY

MAPS PREPARED BY JOHNSON SURVEYORS, INC.
FIELD BOOK NO.'S 20012843, 20012904
W.P.I. NO. 3112002
SCALE: 1:500
SECTION 48110
SHEET 10 OF 17

S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE

SANTIEGO COLEMAN GRANT

GRAPHIC SCALE
0m 10m 20m 30m 40m 50m
SCALE 1:500

T-2-S, R-31-W

METRIC
SCALE 1:500

71 72 73 74

℄ LA PAZ STREET
STA. 70+76.372

MAINTIANED R/W

146°07'51"(F)

1.219m RAIL FENCE

+50
10.058m

+50.000
10.063m(F)

+79.942
10.063m(F)

+100.000
10.059m

+18.213
10.058m(F)

+50
10.063m(F)

℄ SURVEY (S.R. 298)(LILLIAN HWY.)

S 76°59'27" E (GRID)

MAINTAINED R/W

N 77°41'22" E
452.481m

25°19'11"(F)

STA. 74+00.650

10.058m

MAINTAINED R/W

1.219m WIRE FENCE

SANTIEGO COLEMAN GRANT
SECTION 8
SECTION 13

N 77°41'22" E
(214.845m F)

GOV'T LOT 1

SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL NOTES

MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY — DATE
R. H. Hood 2-07-97
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE |
|---|---|---|
| | | |

| REVISION | BY | DATE |
|---|---|---|
| | | |

| | BY | DATE |
|---|---|---|
| PRELIM | K.C.M. | 08/31/96 |
| FINAL | T.F.B. | 01/23/97 |
| CHECKED | T.J.T. | 01/24/97 |

F.A. PROJECT NO. N/A

STATE ROAD NO. 298 ESCAMBIA COUNTY

MAPS PREPARED BY
JOHNSON SURVEYORS, INC.

W.P.I. NO. 3112002

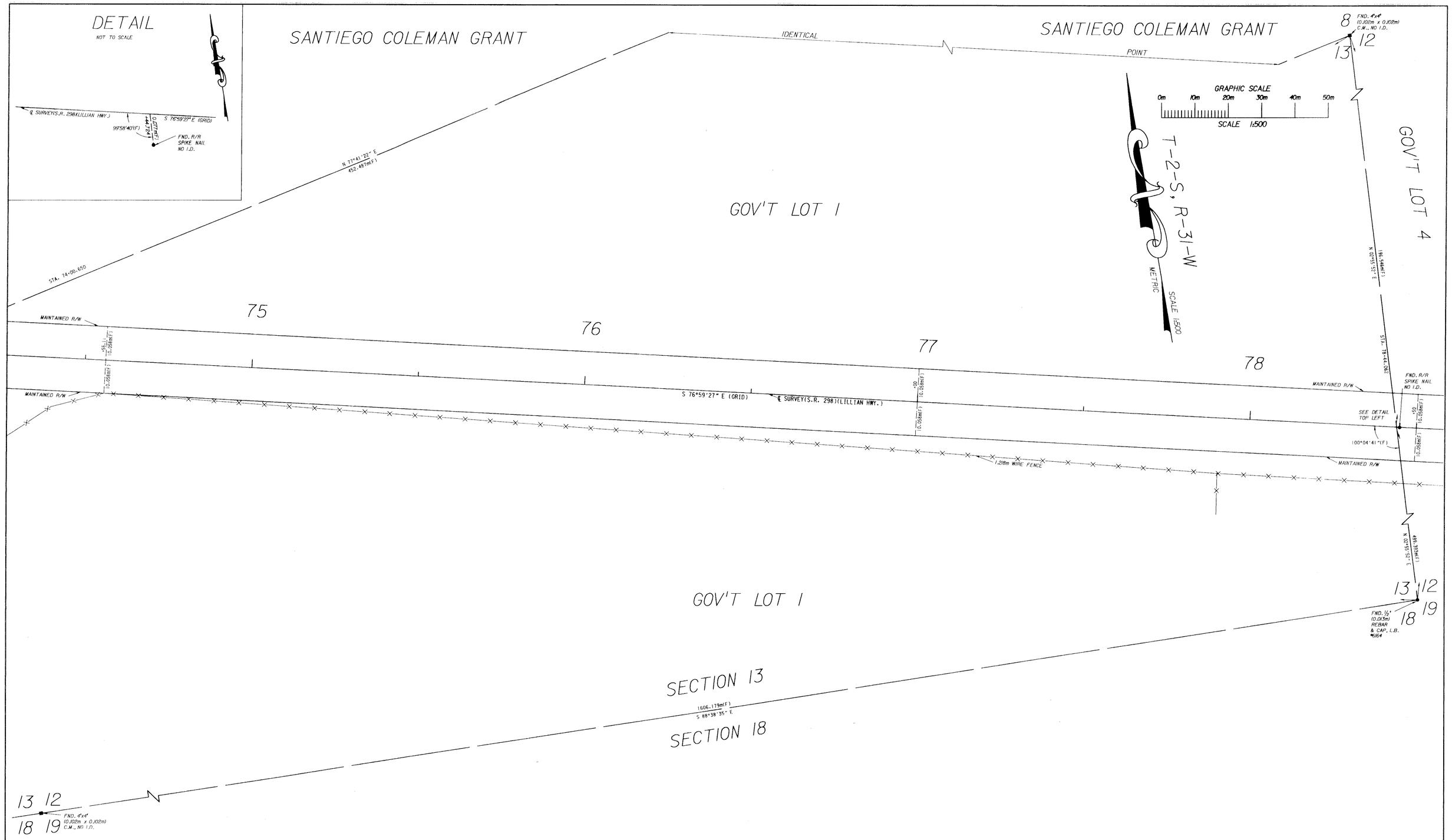
FIELD BOOK NO.'S
20012843, 20012904

SCALE: 1:500

SECTION 48110

SHEET 11 OF 17

S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE




SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL NOTES

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R G Hood DATE 2-07-97<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A. PROJECT NO. N/A | MAPS PREPARED BY JOHNSON SURVEYORS, INC<br>W.P.I. NO. 3112002 | FIELD BOOK NO.'S 20012843, 20012904<br>SCALE: 1:500 |
| | | | | | | | | | PRELIM | K.C.M. | 08/31/96 | | | |
| | | | | | | | | | FINAL | T.F.B. | 01/23/97 | STATE ROAD NO. 298 ESCAMBIA COUNTY | SECTION 48110 | SHEET 12 OF 17 |
| | | | | | | | | | CHECKED | T.J.T. | 01/24/97 | | | |

S.R. 293(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE

SANTIEGO COLEMAN GRANT

SET ½" (0.013m) REBAR, LB 4346 N.E. COR., NW. 1/4, SEC. 12

828.332m(F) N 73°30'40" E

FND. 4x4 (0.102m x 0.102m) C.M., NO I.D.

8

13 | 12

N 02°55'52" E 196.546m(F)

S 54°78'44.05"E

SEC. 13 FND. R/R SPIKE NAIL

GOV'T LOT 4

79

80

81

82

GOV'T LOT 3

GRAPHIC SCALE

0m 10m 20m 30m 40m 50m

SCALE 1:500

T-2-S, R-31-W

SCALE 1:500 METRIC

MAINTAINED R/W

SEE DETAIL BELOW

100°04'41"(F)

50 0.058m(F)

S 76°59'27" E (GRID)

℄ SURVEY(S.R. 298)(LILLIAN HWY.)

1.218m WIRE FENCE

1.219m WIRE FENCE

GOV'T LOT 1

3.745'55.20 N 1.141456'E(F)

DETAIL

NOT TO SCALE

℄ SURVEY(S.R. 298)(LILLIAN HWY.)

99°58'40"(F)

0.077m(F) 1.427241

S 76°59'27" E (GRID)

FND. R/R SPIKE NAIL NO I.D.

GOV'T LOT 4

807.695m(F) S 87°13'54" E

FND. 4x4 (0.102m x 0.102m) C.M. & DISC LS 475 S.E. COR., S.W. 1/4, SEC. 12

FND. ½" (0.013m) REBAR & CAP, L.B. #264

13 | 12

18 | 19

1606.179m(F) S 88°38'35" E

SEE SHEET ONE FOR LEGEND AND GENERAL NOTES

MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY R. L. Hood DATA
DISTRICT SURVEYOR ADMINISTRATOR

| REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|
| | | | | | |

| | BY | DATE |
|---|---|---|
| PRELIM | K.C.M. | 08/31/96 |
| FINAL | T.F.B. | 01/23/97 |
| CHECKED | T.J.T. | 01/24/97 |

F.A. PROJECT NO. N/A

STATE ROAD NO. 298 ESCAMBIA COUNTY

MAPS PREPARED BY JOHNSON SURVEYORS, INC.

FIELD BOOK NO.'S 20012843, 20012904

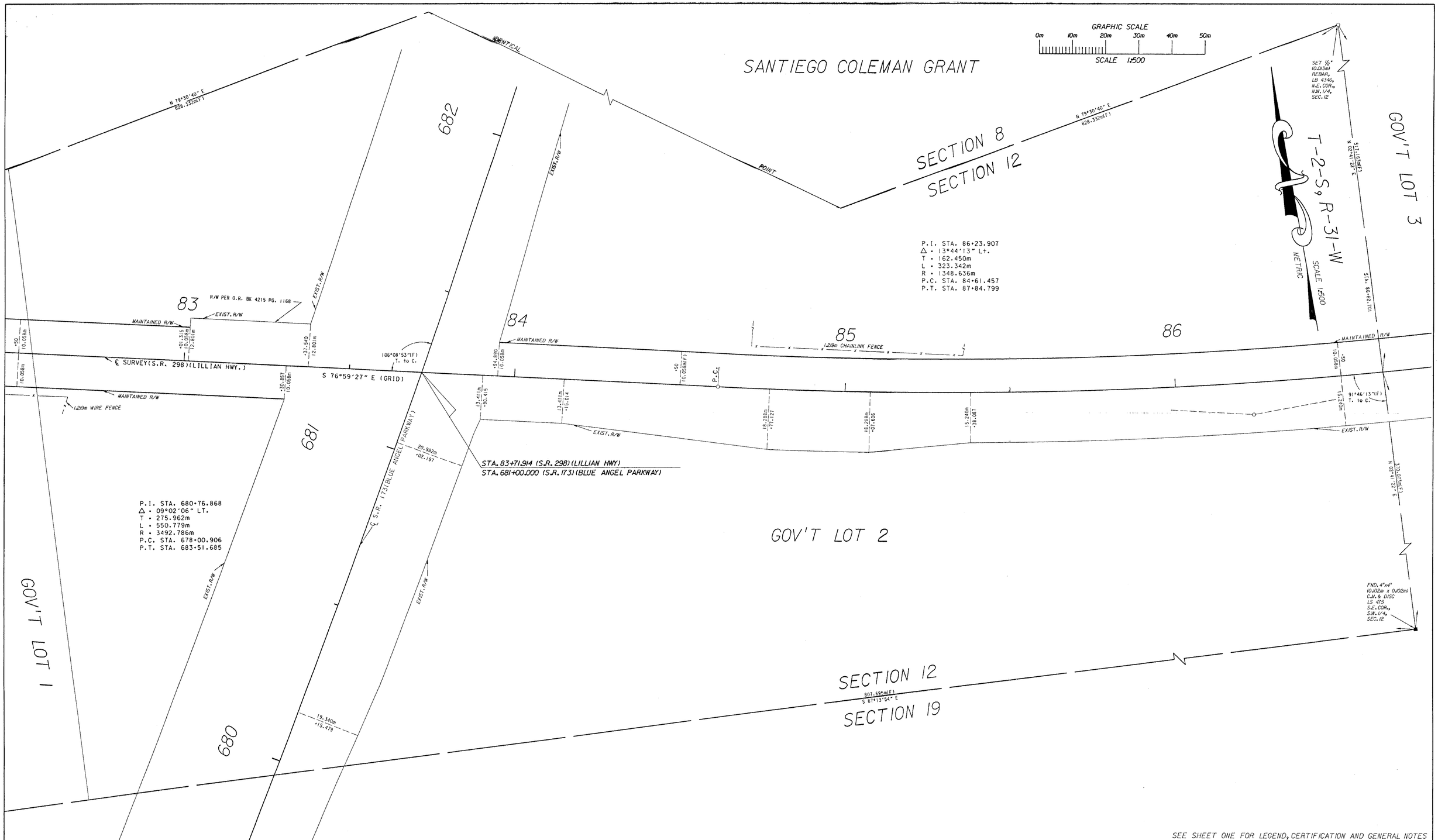
W.P.I. NO. 3112002

SCALE: 1:500

SECTION 48110

SHEET 13 OF 17

S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE




SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL NOTES

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY<br>R. G. Hood 2-07-97<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REV. MAINTAINED R/W<br>REVISION | R.M.<br>BY | 8-13-02<br>DATE | | BY | DATE | F.A. PROJECT NO. N/A | MAPS PREPARED BY<br>JOHNSON SURVEYORS, INC. | FIELD BOOK NO.'S<br>20012843, 20012904 |
| | | | | | | | | | PRELIM | K.C.M. | 08/31/96 | | W.P.I. NO. 3112002 | SCALE: 1:500 |
| | | | | | | | | | FINAL | K.C.M. | 01/23/97 | STATE ROAD NO. 298 ESCAMBIA COUNTY | SECTION 48110 | SHEET 14 OF 17 |
| | | | | | | | | | CHECKED | T.J.T. | 01/24/97 | | | |

S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th AVENUE

SECTION 8

828.332m(F)
N 79°30'40" E

SECTION 12

SET ½" (0.013m) REBAR/CAP LB 4346 N.E. COR., N.W. 1/4, SEC. 12

517.153m(F)
N 02°41'22" E

STA. 86+62.70

P.I. STA. 86+23.907
Δ - 13°44'13" Lt.
T - 162.449m
L - 323.341m
R - 1348.636m
P.C. STA. 84+61.457
P.T. STA. 87+84.799

GOV'T LOT 3

GRAPHIC SCALE
0m 10m 20m 30m 40m 50m
SCALE 1:500

METRIC
SCALE 1:500

SEC. 12, T-2-S, R-31-W

87 88 89 90

MAINTAINED R/W

1.219m WIRE FENCE

91°46'13"(F)
T. to C.

10.058m

15.240m

P.T.

59.057
15.240m(F)
10.058m(F)

90°00'00"(F)
T. to C.

℄ SURVEY (S.R. 298)(LILLIAN HWY.)

N 89°16'20" E (GRID)

10.058m

+42.835
10.076m

93°25'51"(F)

EXIST. R/W
93.67'(P)

1.219m BOARD FENCE

+79.383
19.376m

93°17'23"(F)

SET ½" (0.013m) REBAR LB 4346

1.219m CHAINLINK FENCE

FND. ½" (0.013m) REBAR LS 4082

+40.622
10.249m

202.95'(P)
118.89'(P)

EXIST. R/W

1.829m BOARD FENCE

10.058m

+50

84.06'(P)

MAINTAINED R/W

+66.814
10.181m

FND. 4
(0.102
CONC.
NO I.D.

1.219m CHAINLINK FENCE

96.14'(P)

EXIST. R/W

35

60'(P)

SET ½" (0.013m) REBAR LB 4346

+59.027
12.496m
N 02°33'43" E
41.74'(P)

91.07'(P)

1

2

114.13'(P)

88.98'(P)

120.00'(P)

SET ½" (0.013m) REBAR LB 4346

55.36'(P) 32.18'(P) 52.36'(P) 130.24'(P)

34

84.00'(P)

2nd. ADDITION LI-FAIR ESTATES
P.B. 9, PG. 74

CARONDELAY DRIVE (P)

33

32

31

30

3

4

5

6

7

8

90.00'(P)

114.13'(P)

55.88'(P)

125.00'(P)

101.09'(P)

375.712m

N 02°41'22" E

FND. 4"x4" (0.102m x 0.102m) C.M. & DISC LS 415 S.E. COR., S.W. 1/4, SEC. 12

SECTION 12
S 87°19'38" E
805.935m(F)
SECTION 19

SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL

MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY R. L. Hood DATE 2-27-97
DISTRICT SUERVEYOR ADMINISTRATOR

| REVISION | BY | DATE |
|---|---|---|
| | | |

| REVISION | BY | DATE |
|---|---|---|
| | | |

| | BY | DATE |
|---|---|---|
| PRELIM | K.C.M. | 08/31/96 |
| FINAL | K.C.M. | 01/23/97 |
| CHECKED | T.J.T. | 01/24/97 |

F.A. PROJECT NO. N/A

STATE ROAD NO. 298 ESCAMBIA COUNTY

MAPS PREPARED BY JOHNSON SURVEYORS, INC.
FIELD BOOK NO.'S 20012843, 20012904
W.P.I. NO. 3112002
SCALE: 1:500
SECTION 48110
SHEET 15 OF 17

S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th

GRAPHIC SCALE
0m 10m 20m 30m 40m 50m
SCALE 1:500

METRIC
SCALE 1:500

T-2-S, R-31-W

ESCONDITAS PLACE
P.B. 8, PG. 70

11 32.55'(P) 6.00'(P) 20.35'(P) 80.00'(P) 32.33'(P) 28.59'(P)
10
9 22.00'(P) 22.00'(P)
8 22.00'(P) 22.00'(P)
7 32.33'(P) 32.33'(P)
6 32.33'(P) 32.33'(P)
5 22.00'(P) 22.00'(P)
4 22.00'(P) 22.00'(P)
3 22.00'(P) 22.00'(P)
2 22.00'(P) 22.00'(P) 100.00'(P)
1 63.48'(P) 33.27'(P) 76.65'(P)

29 76.28'(P) 18.67'(P) 7.88'(P) 18.69'(P) 9.65'(P) 5.20'(P) 41.09
30 106.28'(P) 22.00'(P) 125.00'(P)
31 22.00'(P) 22.00'(P)
32 32.33'(P) 32.33'(P)
33 32.33'(P) 32.33'(P)
34 106.29'(P) 22.00'(P) 22.00'(P)
35 106.30'(P) 22.00'(P) 123.58'(P)
36 106.30'(P) 37.25'(P) 57.25'(P) 79.93'(P)
28 112.50'(P) 23.39'(P) 32.34'(P)
27 105.91'(P) 22.39'(P) (P) 22.00'
26 108.23'(P) 22.39'(P) (P) 22.00'
25 155.00'(P) 60.40'(P) 37.33'(P)
37 121.62'(P) 32.40'(P)
38 120.28'(P) (P) 22.04'
39 118.95'(P) (P) 22.04'
40 116.69'(P) 37.40'(P)

60'(P)

91 92 93 94 51 50 GOV'T LOT 3 GOV'T LOT 4

BRICK & STUCCO FENCE
3' WIRE FENCE
MAINTAINED R/W
EXIST. R/W
10.058m
11.125m
+84.186
11.278m
+55.582
+87.147
+49.101
+79.556
+05.396
12.192m
+54.755
5.889m
N 02°44'20" E (CENTERLINE)
STA. 94+70.023 (CENTERLINE)
STA. 94+70.132 (SECTION)
663.413m(F)
N 02°43'13" E (SECTION)
86°32'00"(F)
93°26'53"(F) (SECTION)
(CENTERLINE)
93°42'34"
+85.250
+97.182
10.105m
10.15m
12.325m
N 89°16'20" E (GRID)
℄ SURVEY (S.R. 298)(LILLIAN HWY.)
1.219m RAIL FENCE
0.914m CHAINLINK FENCE
FND. 1/2" (0.013m) ROD/CAP, LB 0155
FND. 4"x4" (0.102m x 0.102m) C.M. & DISC LS 475 S.E. COR., S.W. 1/4, SEC. 12
805.935m(F) S 87°19'38" E
EXIST R/W
412.435m(F)
630.00'(P)
ROYAL PI
P.B. 5, P
12 11 19 20
SET 1/2" (0.013m) REBAR/CAP LB 4346
403.535m(F) N 87°04'55" W

SEE SHEET ONE FOR LEGEND, CERTIFICATION AND GENERAL

MAINTENANCE MAP

FLORIDA DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAPPING

APPROVED BY R. H. Head DATE 2-07-97
DISTRICT SURVEYOR ADMINISTRATOR

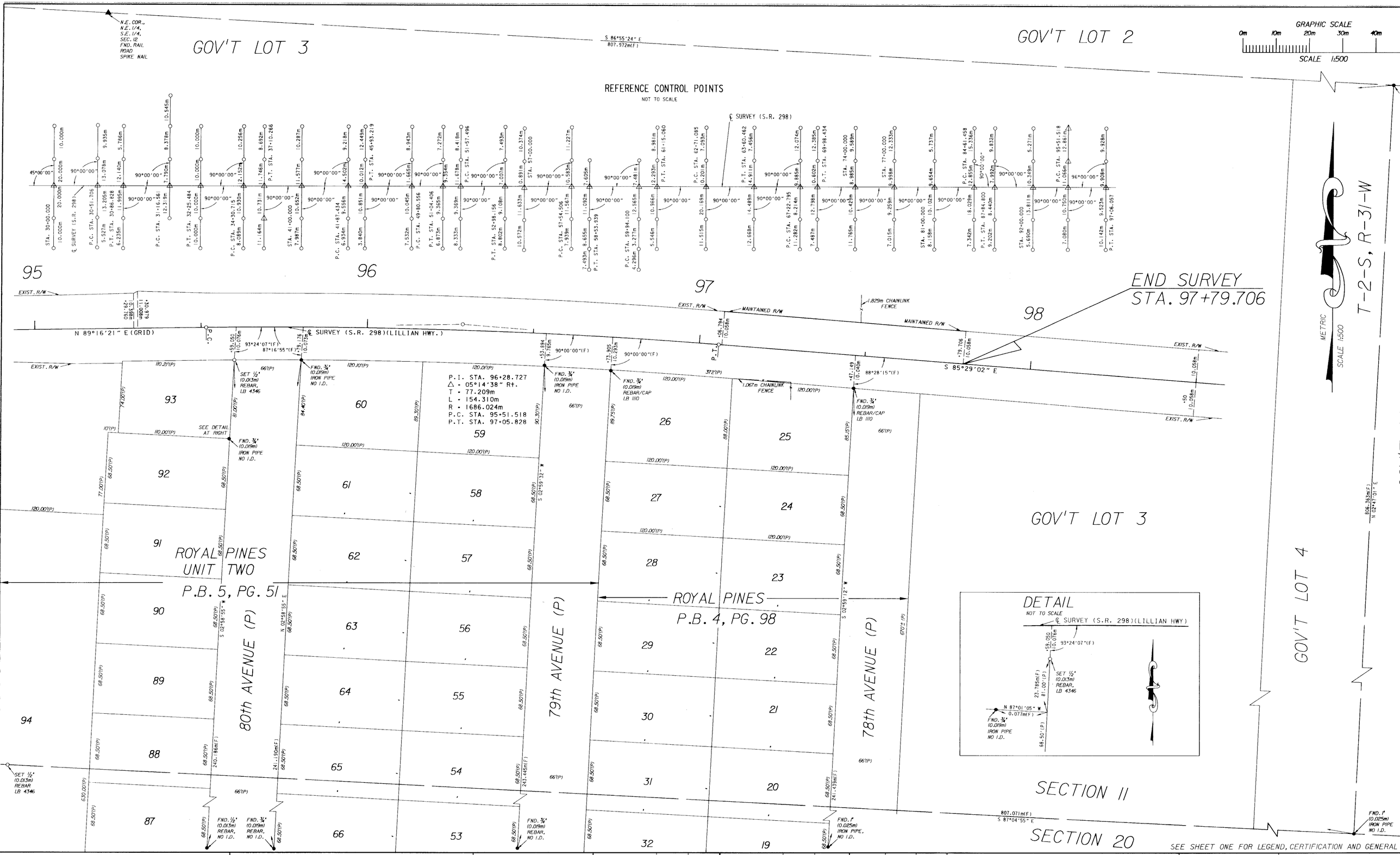
| REVISION | BY | DATE | REVISION | BY | DATE |
|---|---|---|---|---|---|
| | | | | | |

| | BY | DATE |
|---|---|---|
| PRELIM | K.C.M. | 08/31/96 |
| FINAL | K.C.M. | 01/23/97 |
| CHECKED | T.J.T. | 01/24/97 |

F.A. PROJECT NO. N/A
STATE ROAD NO. 298 ESCAMBIA COUNTY

MAPS PREPARED BY JOHNSON SURVEYORS, INC.
FIELD BOOK NO.'S 20012843, 20012904
W.P.I. NO. 3112002
SCALE: 1:500
SECTION 48110
SHEET 16 OF 17

S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th




| MAINTENANCE MAP | FLORIDA DEPARTMENT OF TRANSPORTATION<br>RIGHT OF WAY MAPPING | APPROVED BY R.G. Hood DATE 2-07-97<br>DISTRICT SURVEYOR ADMINISTRATOR | REVISION | BY | DATE | REVISION | BY | DATE | | BY | DATE | F.A. PROJECT NO. N/A | MAPS PREPARED BY JOHNSON SURVEYORS, INC. | FIELD BOOK NO.'S 20012843, 20012904 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | PRELIM | K.C.M. | 08/31/96 | | W.P.I. NO. 3112002 | SCALE: 1:500 |
| | | | | | | | | | FINAL | K.C.M. | 01/23/97 | STATE ROAD NO. 298 ESCAMBIA COUNTY | SECTION 48110 | SHEET 17 OF 17 |
| | | | | | | | | | CHECKED | T.J.T. | 01/24/97 | | | |

S.R. 298(LILLIAN HWY.) FROM C.R. 297(DOGTRACK ROAD) TO 78th