

NEPA/PD&E and Scoping

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What is PD&E

- ◆ **What is NEPA**
- ◆ **NEPA vs. PD&E**
- ◆ **Scope of Service**

Introduction

What is NEPA?

- ◆ **National Environmental Policy Act -1969**
 - Requires consideration of environmental effects and reasonable alternatives
 - Environmental - natural, human, physical
 - 42 USC, Title 42, Chapter 55, Section 4321

Introduction

- ◆ **NEPA** applies to improvement projects when:
 - Federal funds will be used
 - It is (or will be) a State or Federal transportation facility
 - **Federal** approval of an action is required
 - Permits are required from Federal Agencies (Army Corp, EPA, etc)
 - Project requires review or approval by a Federal Agency

Introduction

NEPA vs. PD&E

- ◆ FDOT's PD&E Process is state procedure for complying with NEPA regulations
- ◆ In Florida, NEPA = **PD&E**
- ◆ **PD&E Manual**
 - Defines the process for Federal and State projects to ensure compliance with **NEPA**

Introduction

What leads up to PD&E??

- ◆ **Planning**
- ◆ **The ETDM Process**
 - Planning Screen
 - Programming Screen
- ◆ **PD&E Process**
 - Data Collection
 - Engineering Analysis
 - Environmental Analysis
 - Public and Community Involvement

Project Development

The purpose of Project Development is to ...

- ◇ **Determine if an Engineering solution which is environmentally feasible can be provided for a transportation need**
- ◇ **Coordinate and Document the PD&E Studies and Reports**

PD&E Scope

Before your PD&E Study begins ...

- ◆ Review **Programming Screen Summary Report** to Identify:
 - Project Need
 - Engineering Required
 - Environmental Studies Required
 - Permit issues/Types
 - Dispute resolution issues

PREPARE FOR AN “FDOT KICK-OFF”

◆ Review procurement schedule

- Set date for Kick-off Meeting
- Set date for Field Review
- Set date for Scope Review

◆ Establish functional area Liaisons

◆ Gather Data

◆ Coordinate with Locals (how will City/County be involved)

PREPARE SCOPE OF SERVICES

Multi-Disciplined Field Review

◆ Look at existing conditions – Environment

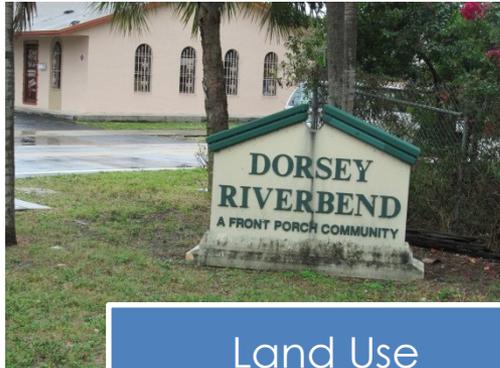
- Social Environment - Land Use, Community
- Cultural Environment – Native American site, historic properties
- Natural Environment - Wetlands, Species, Conservation, Farmlands
- Bridges – Navigation
- Physical Environment - Noise Sensitive Sites, Contamination

PREPARE SCOPE OF SERVICES

Community



Community Facilities



Land Use



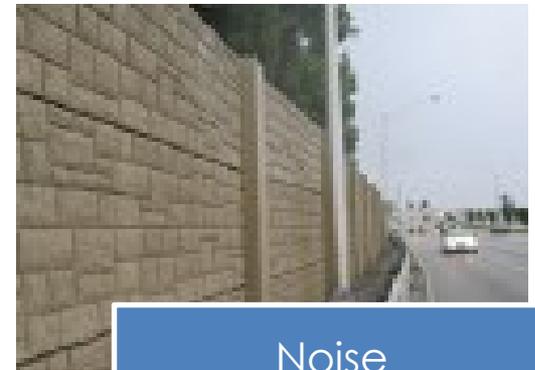
Bicycle/Sidewalk



Parks



Landscaping



Noise

PREPARE SCOPE OF SERVICES

Multi-Disciplined Field Review - Engineering

- ◆ **Roadway** – pavement condition
- ◆ **Typical section features** – lane/shoulder widths, grades, cross slopes, sidewalk/bicycle facilities, intersection geometry and operation (watch what happens through cycles), ADA
- ◆ **Right of way constraints**
- ◆ **Access** – driveways, median openings
- ◆ **Drainage** – type open/closed, existing facilities
- ◆ **Structures** – clearances, pier protection, damage to beams
- ◆ **Utilities** – major facilities?, Florida Gas
- ◆ **Railroad** – crossing
- ◆ **Transit Facilities** – condition of stops, ADA, access

Prepare Scope of Services and Estimate Staffhours

- ◆ **Standard Scope of Work**
 - **Public Involvement**
 - **Engineering**
 - **Environmental**
 - **Miscellaneous**
- ◆ **www.dot.state.fl.us/projectmanagementoffice**
- ◆ **Identify required technical studies**
- ◆ **Identify potential project alternatives for study**
- ◆ **Outline the level of public involvement based on identified community concerns**

Prepare Scope of Services and Estimate Staffhours

◆ Public Involvement

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Project Activity: Public Involvement

Task No.	Task	Staff Hour Range	Basis for Staff Hour Range	Low-Range	Mid-Range	High-Range
1.5	Public Kickoff Meeting					
	Set up *	80 to 160	The task includes the invitations, advertisements, press releases, as well as preparation of presentation, handouts, and exhibits, site selection, set up, and FDOT staff briefings. The staff hour range for this task is 80 to 160 hours. Criteria affecting the hours needed are, location of project, type of presentation, number of exhibits, etc. (If this is combined with an Elected Official meeting adjust hours accordingly)	The project is in rural area, with one municipality and few adjacent properties.	The project may cross municipal boundaries, have known groups of interested citizens and project stakeholders.	The project may be long and cross many municipal lines or involve multiple counties, it may be in an urban setting involving multiple adjacent properties as well as neighborhoods, numerous stakeholders and interest groups.
	Participation and notes	See Basis for Staff Hour Range	This task consists of the actual attendance and participation in the Kickoff Meeting. The hour estimate is based on number of staff attending x (length of meeting + travel time) + note preparation and distribution.		Use formula	
	Corridor or Informational					
	Set up *	80 to 160	The task includes the invitations, advertisements, press releases, as well as preparation of presentation, handouts, and exhibits, site selection, set up, and FDOT staff briefings. The staff hour range for this task is 80 to 160 hours. Criteria affecting the hours needed are location of project, type of presentation, number of exhibits, etc.	The project has one or two corridors.	The project has 3 to 5 corridors.	The project may have 6 or more corridors, or may involve coordination with working groups
	Participation and notes	See Basis for Staff Hour Range	This task consists of the actual attendance and participation in the Corridor Public Meeting. The hour estimate is based on number of staff attending x (length of meeting + travel time) + note preparation and distribution.		Use formula	
	Alternatives Public Meeting					
	Set up *	120 to 240	The task includes the invitations, advertisements, press releases, as well as preparation of presentation, handouts, and exhibits, site selection, set up, and FDOT staff briefings. The staff hour range for this task is 120 to 240 hours. Criteria affecting the hours needed are, location of project, type of presentation, number of exhibits, etc.	The project is in a rural area with one municipality and few adjacent properties.	The project may cross municipal boundaries, have known groups of interested citizens and project stakeholders.	The project may be long and cross many municipal boundaries or involve multiple counties, it may be in an urban setting involving multiple adjacent properties as well as neighborhoods, numerous stakeholders and interest groups.

Prepare Scope of Services and Estimate Staffhours

◆ Engineering Analysis and Report

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Project Activity: Engineering Analysis and Report

Task No.	Task	Units	Staff Hour Range	Basis for Staff Hour Range	Low-Range	Mid-Range	High-Range
2.9	Roadway Design Alternatives *	LS	See Basis for Staff Hour Range	This task consists of the development of reasonable alignment alternatives for the roadway portion of the project. The hours needed for this task can be estimated by taking the number of alternatives x the length of the project in miles x the number of hours depending on complexity (4 to 24) + hours estimated for any "special features" such as interchanges or grade separated intersections. The criteria for determining the hours for complexity in the equation are the vertical and horizontal alignment, urban or rural location, density of development, potential for special aesthetic treatments, length of the project (generally, the longer the project the lower the range value), and any environmental constraints.	Rural Typical Section (Complexity = 4 to 8 hrs)	Rural interstate, Simple Urban Typical Section (Complexity = 8-16 hrs)	Urban Interstate, Complex Urban Sections (Complexity = 16 -24 hrs)
	Access Management *	LS	8 to 56	This task is to develop the access management details for the study alternatives. If the project will require a change in the Access Management Classification, the hours needed for coordination and preparing the needed information for the public hearing. This task does not include any additional public meetings. The anticipated controversy associated with access management will determine the estimate of hours needed for this task.	Limited access, Use Access Class for ranges (8-20)	Rural Typical section with change in classification, or Urban Typical Section with no change in classification (20-35)	Urban area changing classification (complete access to restricted with median) from 2 to 4 lane (35-56)
	Identify Construction Segments *	LS	See Basis for Staff Hour Range	This task is to be defined in the SOS. It may include the segmenting and identification of the project into implemental construction segments. . This task may also include financing, staging and sequencing plans. The hours needed to complete this task will be determined by the effort required in the SOS. For a project where the consultant is to verify the previously identified segments the effort may require 8 to 12 hours total. For projects where it is anticipated that the consultant will be required to identify individual segments the hours are estimated at 8 to 12 hours per segment. This effort does not include the additional traffic analysis associated with this task. Note - Construction segments must be checked for consistency with the local TIP/STIP/LRTP plans	Verify previously defined segments (8-12 hrs total)	Consultant Identifies Segmentation, limited access, or rural facility (8 hrs per segment)	Consultant Identifies Segmentation, Urban facility (8-12 hrs per segment)
STRUCTURES							
	Existing Structures Characteristics	EA	4 to 80	This task includes the review of all relevant data with regards to the existing structures, including but not limited to plans, Bridge Inspection Reports, maintenance records, navigation data (if applicable). The hours associated with this task are based on the type of structure. Bridges that are not over a navigable waterway will have a range of 4 to 8 hours per structure depending on the complexity of the structure. Bridges over navigable waterways have a range of 4 to 80 hours. Criteria used in estimating the hours needed are the type of structure and availability of data.	Bridge over roadway (4-8 hrs)	Simple structure over water, widening bridge (4-12 hrs)	Bascule bridge or other major bridges over navigable water vessel survey required, new bridge, replacement bridge (12- 80 hrs)

Prepare Scope of Services and Estimate Staffhours

◆ Environmental Analysis and Report

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Project Activity: Environmental Analysis and Reports

Task No.	Task	Units	Staff Hour Range	Basis for Staff Hour Range	Basis for Staff Hour Range		
					All Field Time and Meeting Time is included in the tasks		
				Low-Range	Mid-Range	High-Range	
SOCIOCULTURAL EFFECTS				If the Summary Degree Of Effect from the Final Programming Summary Report is "Enhancement", "N/A", or "None", the level of effort may be none.			
SOCIAL RESOURCES							
3.1	Land Use Changes *	LS	6 to 24	This task consists of reviewing existing and future land use and analyzing the compatibility of the project with the identified land use in accordance with Part 2, Chapter 9 of the PDSE Manual. The criteria for estimating the hours needed for this task are the number of jurisdictions, potential and ongoing growth along the corridor. (ETDM)	Low number of jurisdictions, low potential for growth along corridor - 6-12 hours	Several jurisdictions or medium potential for growth along corridor - 12-18 hours	Numerous jurisdictions or high potential for growth along corridor - 18-24 hours
	Social *	LS	8 to 24	This task consists of collecting data and completing the Community Characteristics Inventory (CCI) and performing the analysis necessary to determine Title VI/VIII involvement, evaluate the community cohesion, and community services, analyze and evaluate the effects of the project on individual groups or neighborhoods near the project and the effect of the project on the community in accordance with Part 2, Chapter 9 of the PDSE Manual. The criteria for estimating the hours needed for this task are the type of neighborhoods along the corridor, the magnitude of impact to the community, and the anticipated coordination effort. (ETDM)	Few adjacent neighborhoods, low level of potential community impacts and low level of coordination anticipated - 8-12 hours	Several adjacent neighborhoods, medium level of potential community impacts or medium level of coordination anticipated - 12-18 hours	Numerous adjacent neighborhoods, potential high level of potential community impacts or high level of coordination anticipated - 18-24 hours
	Economic *	LS	8 to 24	This task consists of identifying all community service properties along the project, and analyzing the economic effect of the project on the community services and facilities as per Part 2, Chapter 9 of the PDSE Manual. The criteria for estimating the hours needed for this task are the number of community services and potential impacts. (ETDM)	None or few number of community services near corridor and no or low level of potential impacts anticipated - 8-12 hours	Several community services near corridor and low to medium level of potential impacts anticipated - 12-18 hours	Numerous community services near corridor and medium to high level of potential impacts anticipated - 18-24 hours
	Mobility *	LS	0 to 24	If the DDE is N/A, None, or no significant impact hours will be 0. This task consists of identifying and analyzing the project alternatives for mobility as per Part 2, Chapter 9 of the PDSE Manual. Considerable effort may be required for projects that will have parallel transit corridors, new alignments, or street closures. (ETDM)	ETDM Degree of Effect is N/A, None or Enhanced and there are no significant impacts expected - 0 hours	ETDM Degree of Effect is Minimal to Medium and there are parallel transit corridors, or street closures possible - 4-18 hours	ETDM Degree of Effect is Medium or Higher and there are parallel transit corridors, new alignment or street closures possible - 18-24 hours
	Aesthetic *	LS	4 to 24	This task includes all efforts necessary to analyze the visual impacts of the project, and the development of aesthetic treatments as per Part 2, Chapter 15 of the PDSE Manual. The criteria for estimating the hours needed for this task are historic or scenic potential of corridor, and/or the potential for controversy.	Low potential for historic/scenic impacts in corridor or low potential for controversy related to aesthetics - 4-12 hours	Medium potential for historic/scenic impacts in corridor or medium potential for controversy related to aesthetics - 12-18 hours	High or known potential for historic/scenic impacts in corridor or highly anticipated potential for controversy related to aesthetics - 18-24 hours
3.2	Socio-cultural Effects Evaluation Report*	LS	8 to 80	This task includes the preparation of a Socio-cultural Effects Evaluation Report. This report documents the resources and potential effects to potential impacts to land use, social, economic, mobility or aesthetic resources evaluated in section 3.1 and other social resources. Report prepared in accordance with Part 2, Chapter 15 of the PDSE Manual. The criteria for estimating the hours based on the complexity of issues. If the effects will only be documented in the Environmental Document and not compiled in a separate Report, the hours for this task will be 0.	No or low complexity of affected resources from Item 3.1 - 8-20 hours	Medium complexity or several affected resources from Item 3.1 - 20-40 hours	High complexity or high number of affected resources from Item 3.1 - 40-80 hours
3.3	Relocation Potential *	LS					
	Review and Impact Determination	LS	16 to 40	This task consists of the analysis of the GSRP and assessing the impacts associated with relocations for the project alternatives as per Part 2, Chapter 9 of the PDSE Manual. The criteria for estimating the hours needed for this task are the number and type of relocations, and the location of the project.	No expected or Low number of relocations - 16-20 hours	Moderate number of relocations - 20-32 hours	High number of relocations - 32-40 hours
	Conceptual Stage Relocation Plan*	LS	16 to 80	This task consists of all the necessary tasks to prepare the GSRP as per Part 2, Chapter 9 of the PDSE Manual. This task will be completed in the ROW office. The estimate should be based upon rural vs urban, length of the project, potential number of relocations, and availability of property for relocation.	Low number of relocations - 16-24	Moderate number of relocations 24-40	High number of relocations 40-80
Cultural Resources							
	Archaeological and Historic Resources	LS	See Basis for Staff Hour Range (See Below)	This task includes the identifying and analyzing impacts to Archeological and Historical sites and districts along the project including documentation and coordination with the appropriate agencies as per Part 2, Chapter 12 of the PDSE Manual and the Department's Cultural Resource Management Handbook. The criteria for estimating the hours needed for this task are the length of the project, known sites, and potential for sites. The hours estimated for this task should be done by knowledgeable staff using the Florida Geographical Data Library (FGDL) to identify potential sites as well as using any information obtained by SHRP or other reviewer comments through ETDM. Known historic or archeological sites that are eligible for the National Registry may require substantially greater involvement.			

Prepare Scope of Services and Estimate Staffhours

◆ Public Involvement

- From ETDM and Field Review determine who is out there and special considerations:
 - Potential for Controversy
 - Need for Context Sensitive Solutions
 - Demographics
 - ★ Environment Justice - Low income and/or minority populations
 - ★ Limited English Proficiency
 - ★ Age/mobility issues

Sociocultural Data Report

Sociocultural Data Report: Rusty's PI

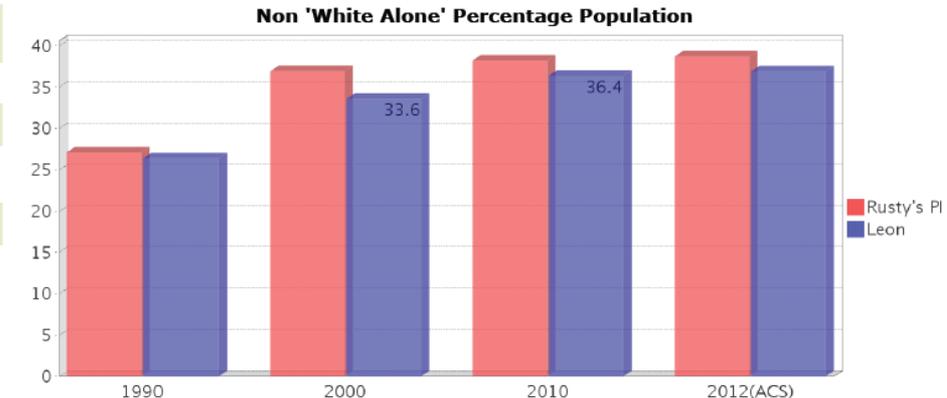
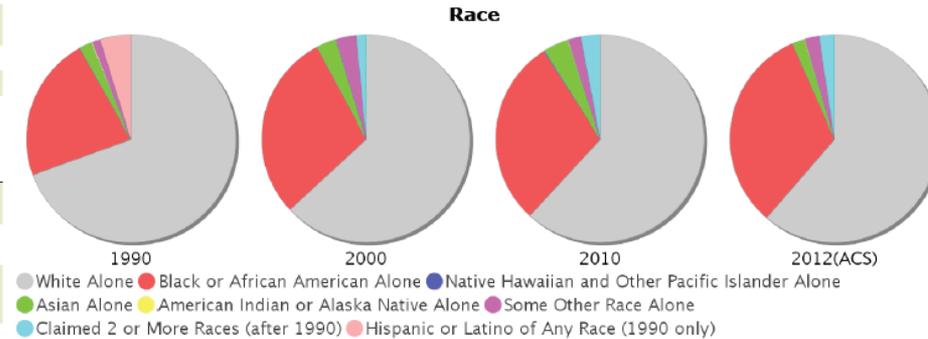
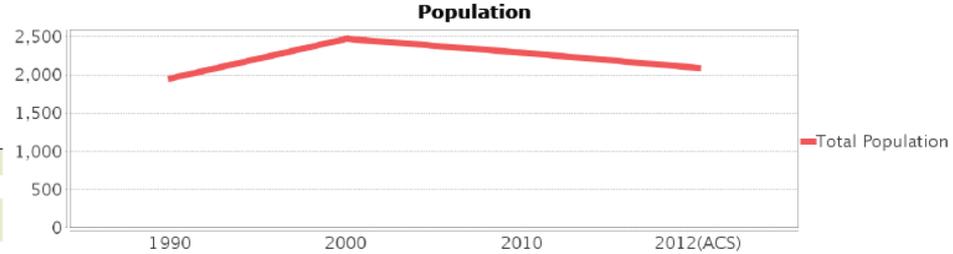
Area: 0.265 square miles
Jurisdiction(s): Cities: Tallahassee
 Counties: Leon

General Population Trends

Description	1990	2000	2010	2012(ACS)
Total Population	1,951	2,468	2,286	2,089
Total Households	715	1,112	881	857
Average Persons per Acre	14.06	16.14	18.61	18.34
Average Persons per Household	40.76	1.74	2.00	1.73
Average Persons per Family	3.16	2.32	2.00	2.36
Males	967	1,188	1,119	973
Females	984	1,280	1,167	1,117

Race and Ethnicity Trends

Description	1990	2000	2010	2012(ACS)
White Alone	1,422 (72.89%)	1,556 (63.05%)	1,412 (61.77%)	1,280 (61.27%)
Black or African American Alone	459 (23.53%)	719 (29.13%)	665 (29.09%)	671 (32.12%)
Native Hawaiian and Other Pacific Islander Alone	1 (0.05%)	0 (0.00%)	3 (0.13%)	0 (0.00%)
Asian Alone	39 (2.00%)	77 (3.12%)	88 (3.85%)	40 (1.91%)
American Indian or Alaska Native Alone	5 (0.26%)	2 (0.08%)	4 (0.17%)	3 (0.14%)
Some Other Race Alone	25 (1.28%)	78 (3.16%)	45 (1.97%)	46 (2.20%)
Claimed 2 or More Races	NA (NA)	36 (1.46%)	68 (2.97%)	49 (2.35%)
Hispanic or Latino of Any Race	97 (4.97%)	240 (9.72%)	241 (10.54%)	199 (9.53%)
Not Hispanic or Latino	1,854 (95.03%)	2,228 (90.28%)	2,045 (89.46%)	1,890 (90.47%)
Non White Alone	529 (27.11%)	912 (36.95%)	874 (38.23%)	809 (38.73%)



Field Reviews



Prepare Scope of Services and Estimate Staffhours

◆ Public Involvement

- Determine number and frequency of meetings:
 - Kick-off meeting(s)
 - Local government and/or MPO presentations
 - Corridor public meeting(s)
 - Alternative public meeting(s)
 - Unscheduled meetings
 - Public hearing

Prepare Scope of Services and Estimate Staffhours

◆ Public Involvement

- Determine need for other outreach methods and/or techniques:
 - Newsletters
 - Fact sheets
 - Website
 - Special graphics
 - Translation services

Prepare Scope of Services and Estimate Staffhours

◆ Public Involvement

- Don't forget the small details:
 - Who is paying for cost of postage, FDOT or consultant?
 - Do newspaper advertisements and notification materials need to be written in other languages?
 - Consider notification boundaries – 300 feet minimum, is more needed?
 - How many consultants do you expect to attend each public meeting?

Project Area



8550 Search

Saved Searches: Project History:

13 Alerts | [Advanced Search](#) | [My ETDM](#) | [Bookmarks](#) | [Logout](#)

Active project: #8550 SR 951 Widen 4-6 Lanes

Contents Tools Search Help

Pan Zoom In Zoom Out Identify Clear

Scale 1:4988 Print Feedback



ETDM Results

Social and Economic

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Alternative #1

Project Effects Overview for Alternative #1

Issue	Degree of Effect	Organization	Date Reviewed
Social and Economic			
Land Use Changes	0 None	FL Department of Economic Opportunity	09/11/2014
Land Use Changes	1 Enhanced	FDOT District 1	09/09/2014
Social	0 None	US Environmental Protection Agency	09/12/2014
Social	2 Minimal	FDOT District 1	09/09/2014
Relocation Potential	2 Minimal	FDOT District 1	09/09/2014
Farmlands	2 Minimal	Natural Resources Conservation Service	07/31/2014
Aesthetic Effects	2 Minimal	FDOT District 1	09/09/2014
Economic	0 None	FL Department of Economic Opportunity	09/11/2014
Economic	2 Minimal	FDOT District 1	09/09/2014
Mobility	1 Enhanced	FDOT District 1	09/09/2014

ETDM Results

Social and Economic

Aesthetic Effects

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Agency Comments - Project Effects

Printed on: 12/08/2014

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Project Effects

Coordinator Summary Degree of Effect: ■ Minimal assigned 11/12/2014 by FDOT District 1

Comments:

The FDOT District One indicated that residential uses tend to be limited to the east side of SR 951 as the Rookery Bay National Estuarine Research Reserve is located on the west side of the roadway. The FDOT District One stated that the widening is not likely to affect the visual character of the corridor. **Coordination Document:** PD&E Support Document as per PD&E Manual.

Due to the fact that access to proximate businesses, residences, and recreational features (i.e., the Rookery Bay National Estuarine Research Reserve and nearby multi-use pathway) and enjoyment of the area recreational amenities may be temporarily affected during project construction (and as a result of increased traffic noise from the widening), a Summary DOE of Minimal has been assigned to the Aesthetic Effects issue.

Commitments and Responses: During the Project Development phase, the FDOT District One will conduct public outreach in coordination with the Collier Metropolitan Planning Organization to solicit opinions and preferences from residents and businesses on potential project effects and general design concepts related to aesthetics.

ETDM Results – Physical

Physical

Air Quality

0 None

US Environmental Protection Agency

Contamination

2 Minimal

US Environmental Protection Agency

Contamination

2 Minimal

FL Department of Environmental Protection

Contamination

2 Minimal

South Florida Water Management District

Navigation

3 Moderate

Federal Highway Administration

Navigation

3 Moderate

US Army Corps of Engineers

Navigation

3 Moderate

US Coast Guard

ETDM Results - Physical

Navigation

Project Effects

Coordinator Summary Degree of Effect: 3 Moderate assigned 11/12/2014 by FDOT District 1

Degree of Effect: 3 Moderate assigned 07/30/2014 by Randall D Overton, US Coast Guard

Coordination Document: Permit Required

Coordination Document Comments:

A navigational needs study will be required to ensure that the replacement/modified structure meets the needs of navigation on the waterway. I am available for questions at anytime (305)415-6736 or randall.d.overton@uscg.mil

Direct Effects

Identified Resources and Level of Importance:

Navigable Waters of the United States - Navigation

Comments on Effects to Resources:

Henderson Creek is a navigable water of the US with considerable recreational navigation. A Coast Guard bridge permit will be required for the replacement or modification of the bridge(s) which cross Henderson Creek. A navigational needs study will be required to ensure that the replacement/modified structure meets the needs of navigation on the waterway. I am available for questions at anytime (305)415-6736 or randall.d.overton@uscg.mil

Recommended Avoidance, Minimization, and Mitigation Opportunities:

A navigational needs study will be required to ensure that the replacement/modified structure meets the needs of navigation on the waterway. I am available for questions at anytime (305)415-6736 or randall.d.overton@uscg.mil

CLC Recommendations:

Indirect Effects

Identified Resources and Level of Importance:

Comments on Effects to Resources:

Recommended Avoidance, Minimization, and Mitigation Opportunities:

ETDM Results

Special Designation

Special Designations

Special Designations

4 Substantial

US Environmental Protection Agency

09/12/2014

Special Designations

4 Substantial

FL Department of Environmental Protection

09/12/2014

Special Designations

3 Moderate

South Florida Water Management District

09/09/2014

Special Designations

4 Substantial

Federal Highway Administration

09/03/2014

Special Designations

4 Substantial

US Fish and Wildlife Service

07/30/2014

ETDM Results

Special Designation

ETAT Reviews and Coordinator Summary: Special Designations

Special Designations

Project Effects

Coordinator Summary Degree of Effect: 4 *Substantial* assigned 11/12/2014 by FDOT District 1

Comments:

The FDEP, FWS, SFWMD, and USEPA commented that the project has the potential to impact Henderson Creek [an Outstanding Florida Water (OFW) within the Rookery Bay Aquatic Preserve]. The agencies noted that the west side of the existing roadway abuts the Rookery Bay National Estuarine Research Reserve (consisting of state-owned conservation lands); the FDOT must address state public interest criteria for any proposed impacts to these lands. **Coordination Document:** To Be Determined: Further Coordination Required (FDEP, FWS, and USEPA). / **Coordination Document:** Permit Required (SFWMD).

The project crosses Henderson Creek, an OFW which is part of the Rookery Bay Aquatic Preserve. The Rookery Bay National Estuarine Research Reserve (a state-owned public conservation land) is also located adjacent to the west side of the existing roadway. Due to the presence of these resources within the project vicinity and the potential need for additional agency coordination, a Summary DOE of Substantial has been assigned to the Special Designations issue.

Commitments and Responses: Further agency coordination will take place during the Project Development phase.

Technical Study: None.

Degree of Effect: 4 *Substantial* assigned 09/12/2014 by Maher Budeir, US Environmental Protection Agency

Coordination Document: To Be Determined: Further Coordination Required

Coordination Document Comments:

More discussion on need is required. Project purpose and scope needs more discussion.

Prepare Scope of Services

- ◆ **More things to consider....**
 - **Level of Engineering Detail**
 - **Number of Alternatives / Scale for public display**
 - **Project Schedule**

Prepare Scope of Services and Estimate Staffhours

- ◆ **Engineering Analysis and Report**
 - **Survey and Geotechnical Needs**
 - ★ **Coordinate with Survey Department and Geotechnical Engineer**
 - ★ **Hours in Basis of Estimate are for coordination**
 - ★ **Dependant on level of engineering**
 - **Traffic**
 - ★ **Coordinate with District Traffic Specialist**
 - ★ **Consultant**
 - ★ **Department**
 - ★ **Traffic Data for Noise Analysis**

Prepare Scope of Services and Estimate Staffhours

◆ Engineering Analysis and Report

■ Safety

★ Crash Data

★ Safety Analysis

■ Railroads/Utilities

■ Needs/Transportation Plans

★ Number of local agencies

★ Consistency



Prepare Scope of Services and Estimate Staffhours

- ◆ **Engineering Analysis and Report**
 - **Corridor Study needed**
 - ★ Case by case basis
 - **Existing Roadway Analysis**
 - ★ Length of project
 - ★ Type of project
 - ★ Availability of data
 - **Identify Construction Segments**
 - **Structures**
 - ★ Bridges – New/Widening/Replacement/Load Ratings
 - ★ Miscellaneous - Retaining Walls / Noise Walls /Box Culverts

Prepare Scope of Services and Estimate Staffhours

- ◆ **Engineering Analysis and Report**
 - **Drainage**
 - ★ Pond Siting
 - ★ Flood Plain
 - ★ Permitting
 - ★ Local concerns
 - **Concept Plans**
 - ★ Length of project
 - ★ Complexity of project
 - ★ Number of Alternatives
 - ★ Level of Detail (15% plans or 60% Design)

Prepare Scope of Services and Estimate Staffhours

- ◆ Engineering Analysis and Report
 - Typical Section Package
 - ★ Anticipated number of typical sections
 - ★ Pavement design?
 - Design Exceptions
 - ★ Identify
 - ★ Prepare Design Exception Package
 - Multimodal/Park and ride
 - Maintenance of Traffic

Prepare Scope of Services and Estimate Staffhours

- ◆ Engineering Analysis and Report
 - Maintenance of Traffic
 - ★ Land use
 - ★ Constrained Facility/Bridge
 - ★ Cost Estimate
 - Matrix
 - ★ Anticipated Number of Alternatives
 - ★ Anticipated Number of Issues
 - Value Engineering/Risk Management
 - Cost Estimates (construction and ROW)
 - Other

PREPARE SCOPE OF SERVICES

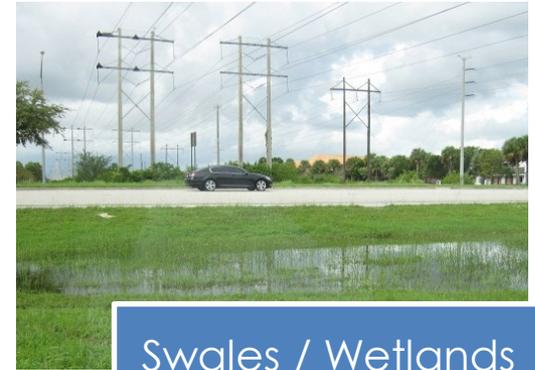
Environmental Concerns



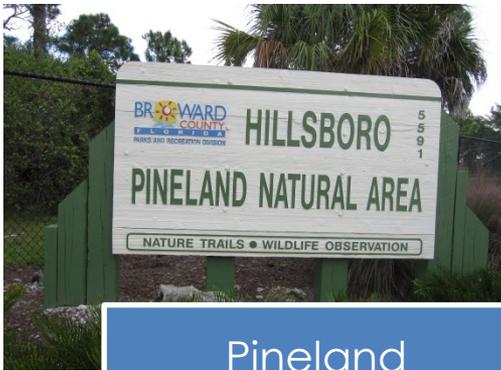
Land Use



Tribal Lands



Swales / Wetlands



Pineland



Species



Greenway

Prepare Scope of Services and Estimate Staffhours

- ◆ **Environmental Analysis and Report**
 - **From ETDM**
 - **Anticipated Class of Action**
 - **Technical Reports Needed**
 - **Issues/Concerns**

ETDM Results Cultural

Cultural

Section 4(f) Potential	4 Substantial	Federal Highway Administration	09/03/2014
Historic and Archaeological Sites	3 Moderate	FL Department of State	09/12/2014
Recreation Areas	4 Substantial	US Environmental Protection Agency	09/12/2014
Recreation Areas	4 Substantial	FL Department of Environmental Protection	09/12/2014
Recreation Areas	3 Moderate	South Florida Water Management District	09/09/2014
Recreation Areas	0 None	National Park Service	08/20/2014

ETDM Results Cultural

Recreation Areas

Project Effects

Degree of Effect: 4. *Substantial* assigned 09/12/2014 by Lauren P. Milligan, FL Department of Environmental Protection

Coordination Document: To Be Determined: Further Coordination Required

Direct Effects

Identified Resources and Level of Importance:

The following public conservation lands are located within 500 ft. of the corridor study area: Rookery Bay Aquatic Preserve, Rookery

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Bay National Estuarine Research Reserve property and its Headquarters/Environmental Learning Center.

Comments on Effects to Resources:

These lands contain significant natural communities and numerous element occurrences of listed species, as indicated by the Florida Natural Areas Inventory. The Department is interested in preserving the area's natural communities, wildlife corridor functions, natural flood control, stormwater runoff filtering capabilities, aquifer recharge potential and recreational trail opportunities.

Therefore, future environmental documentation should include an evaluation of the primary, secondary and cumulative impacts of roadway/bridge construction on the above public lands and any acquisition sites.

Recommended Avoidance, Minimization, and Mitigation Opportunities:

Under Article X, Section 18 of the Florida Constitution (as amended in 1998), dispositions of state-owned conservation lands are restricted to those lands "no longer needed for conservation purposes." If the proposed roadway construction activities necessitate right-of-way expansion within these state lands, the FDOT may need to request that the Board of Trustees of the Internal Improvement Trust Fund determine whether the subject properties are no longer needed for conservation purposes. This requirement must be met before the conveyance of these lands can proceed. In addition, please be advised that proposals to utilize state conservation lands may be required to meet the guidelines of the state's linear facility policy, POLICY Use of Natural Resource Lands by Linear Facilities As Approved By Board of Trustees of the Internal Improvement Trust Fund on January 23, 1996.

CLC Recommendations:

Indirect Effects

Identified Resources and Level of Importance:

Comments on Effects to Resources:

Recommended Avoidance, Minimization, and Mitigation Opportunities:

ETDM Results Cultural

Degree of Effect: 3 Moderate assigned 09/12/2014 by Alyssa McManus, FL Department of State

Coordination Document: PD&E Support Document As Per PD&E Manual

Coordination Document Comments:

WE LOOK FORWARD TO REVIEWING THE CRAS REPORT FOR THIS PROJECT.

Direct Effects

Identified Resources and Level of Importance:

IDENTIFIED RESOURCES INCLUDE CR718, THE ONCEWASA SITE AND ONE STRUCTURE THAT IS UNRECORDED, BUT IS WITHIN THE PROJECT'S AREA OF POTENTIAL EFFECTS. NO OTHER SITES ARE CURRENTLY IDENTIFIED WITHIN THE AREA OF POTENTIAL EFFECTS.

A review of the Florida Master Site File indicates that the project area has not been surveyed for archaeological and historical properties. Since environmental conditions in the area are favorable for the presence of these kinds of resources, it is our request that the project area be subjected to a professional cultural resources assessment survey. The resultant survey report must conform to the provisions of Chapter 1A-46, *Florida Administrative Code*, and should be forwarded to the Division of Historical Resources to complete the review process. In addition, the report will assist this office in determining if further measures are necessary to avoid, minimize, or mitigate adverse effects to significant archaeological and historic properties.

Comments on Effects to Resources:

AT THIS TIME, IT IS UNKNOWN HOW THIS PROJECT WILL AFFECT CULTURAL AND HISTORICAL RESOURCES.

ETDM Results Natural

Natural				
Wetlands	4	Substantial	US Environmental Protection Agency	09/12/2014
Wetlands	4	Substantial	FL Department of Environmental Protection	09/12/2014
Wetlands	3	Moderate	South Florida Water Management District	09/09/2014
Wetlands	4	Substantial	US Army Corps of Engineers	09/03/2014
Wetlands	3	Moderate	National Marine Fisheries Service	08/11/2014
Wetlands	4	Substantial	US Fish and Wildlife Service	07/30/2014
Water Quality and Quantity	3	Moderate	US Environmental Protection Agency	09/12/2014
Water Quality and Quantity	4	Substantial	FL Department of Environmental Protection	09/12/2014
Water Quality and Quantity	3	Moderate	South Florida Water Management District	09/09/2014
Floodplains	4	Substantial	US Environmental Protection Agency	09/12/2014
Floodplains	3	Moderate	South Florida Water Management District	09/09/2014

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Floodplains	3	Moderate	Federal Highway Administration	09/03/2014
Wildlife and Habitat	3	Moderate	Federal Highway Administration	09/03/2014
Wildlife and Habitat	3	Moderate	FL Fish and Wildlife Conservation Commission	09/02/2014
Wildlife and Habitat	0	None	FL Department of Agriculture and Consumer Services	08/07/2014
Wildlife and Habitat	3	Moderate	US Fish and Wildlife Service	07/30/2014
Coastal and Marine	3	Moderate	South Florida Water Management District	09/09/2014
Coastal and Marine	3	Moderate	National Marine Fisheries Service	08/11/2014

ETDM Results Natural

ETAT Reviews and Coordinator Summary: Natural Wetlands Project Effects

Degree of Effect: 3 Moderate assigned 09/09/2014 by Mindy Parrott, South Florida Water Management District

Coordination Document: Permit Required

Coordination Document Comments:

A permit (ERP) is required, however, if additional wetland studies are conducted, the SFWMD would like the opportunity to review and comment.

Direct Effects

Identified Resources and Level of Importance:

Wetlands exist within the project area, including mixed wetland forests, hydric pine flatwoods and mangroves. The majority appear to be on the west side of the project. The mangroves may also serve as smalltooth sawfish habitat.

Comments on Effects to Resources:

Filling of wetlands. Reduction and elimination of wetland and surface water impacts must be demonstrated as part of the ERP application.

Recommended Avoidance, Minimization, and Mitigation Opportunities:

SFWMD staff in the Lower West Coast Service Center (Laura Layman- (239) 338-2929 ext. 7725) should be contacted to verify the wetland limits once they are delineated by the project team. Perhaps widening to the east side could reduce wetland impacts. Mitigation must be provided to offset any wetland impacts that remain after reduction and elimination has been satisfied.

CLC Recommendations:

Indirect Effects

Identified Resources and Level of Importance:

Comments on Effects to Resources:

Recommended Avoidance, Minimization, and Mitigation Opportunities:

ETDM Results Natural

Wildlife and Habitat Project Effects

Degree of Effect: 3 Moderate assigned 09/03/2014 by Cathy Kendall, Federal Highway Administration
Coordination Document: PD&E Support Document As Per PD&E Manual

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Direct Effects

Identified Resources and Level of Importance:

Wildlife and Habitat resources in the project area include -
Crocodile consultation area;
Rare and imperiled fish habitat at Henderson Creek;
Red cockaded woodpecker consultation area;
Scrub jay consultation area;
numerous listed species of mammals, birds, fish, reptiles, plants and invertebrates.

Comments on Effects to Resources:

Informal consultation with USFWS, NMFS, and the FFWC should begin as soon as possible. For those species where the project is likely to adversely affect the species, coordination with FHWA to begin Section 7 formal consultation should begin early in the project development phase so that a NEPA decision can be based on a coordinated assessment of impacts to the listed species, and the necessary commitments to avoid, minimize and mitigate impacts are included.

Recommended Avoidance, Minimization, and Mitigation Opportunities:

CLC Recommendations:

Indirect Effects

Identified Resources and Level of Importance:

Comments on Effects to Resources:

Recommended Avoidance, Minimization, and Mitigation Opportunities:

Prepare Scope of Services and Estimate Staffhours

- ◆ Environmental Analysis and Report
 - Sociocultural Effects
 - Relocation Potential
 - Cultural Resources
 - ★ Archeological/ Historic Resources
 - ★ Pond Site Tech Memo
 - ★ Section 106 Consultation Meetings/
public involvement/ Cultural Resource
Committee
 - ★ Research Design Methodology/CRAS
 - ★ Native American Coordination
 - Section 4(f)

Prepare Scope of Services and Estimate Staffhours

- ◆ Environmental Analysis and Report

 - Natural Resources

 - ★ Species Surveys – time of year
 - ★ Wetlands
 - ★ Habitat
 - ★ Water Quality
 - ★ **Outstanding** Florida Waters

 - Physical Effects

 - ★ Noise
 - ★ Contamination
 - » Current Data
 - » Structures - Lead based paint/Asbestos

 - Special Agency Coordination Required
 - ★ Concurrence letter from FFWCC for ESBA
 - ★ FDEP - contamination

For More Information

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References :

◆ FDOT PD&E Manual

- *Available at:*

<http://www.dot.state.fl.us/emo/pubs/pdeman/pdeman1.shtm>

Questions

