#### FINAL POND SITING REPORT

#### S.R. 39 FROM I-4 TO U.S. 301 HILLSBOROUGH AND PASCO COUNTIES, FLORIDA

Work Program Item Segment Nos: 255099 1 & 256289 1 Federal Aid Project No: F-321-1(4)

This proposed project involves multi-lane improvements to S.R. 39 and the proposed extension at the Alexander Street Bypass from I-4 in Hillsborough County to U.S. 301 in Pasco County, a distance of approximately 21.2 kilometers (13.2 miles).

December 2000

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#### FINAL POND SITING REPORT

#### S.R. 39 FROM I-4 TO U.S. 301 HILLSBOROUGH AND PASCO COUNTIES, FLORIDA

Work Program Item Segment Nos: 255099 1 & 256289 1 Federal Aid Project No: F-321-1(4)

This proposed project involves multi-lane improvements to S.R. 39 and the proposed extension at the Alexander Street Bypass from I-4 in Hillsborough County to U.S. 301 in Pasco County, a distance of approximately 21.2 kilometers (13.2 miles).

December 2000

#### FINAL POND SITING REPORT

#### S.R. 39 FROM I-4 TO U.S. 301 HILLSBOROUGH AND PASCO COUNTIES, FLORIDA

Work Program Item Segment Nos: 255099 1 & 256289 1 Federal Aid Project No: F-321-1(4)

Prepared for:

Florida Department of Transportation District Seven 11201 North McKinley Drive Tampa, Florida 33612-6456

Prepared by:

**URS Corporation Southern** 

December 2000

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#### **EXECUTIVE SUMMARY**

The Florida Department of Transportation (FDOT) conducted a Project Development and Environment (PD&E) Study to evaluate the expansion of S.R. 39 to a four-lane facility from the vicinity of Joe McIntosh Road in Hillsborough County to the vicinity of U.S. 301 in Pasco County, Florida. In addition, the FDOT is evaluating the extension of Alexander Street Bypass as a four-lane facility from I-4 northward to S.R. 39 in the vicinity of Joe McIntosh Road.

This report addresses the stormwater management facilities required for the segment of roadway on the new and existing alignment from I-4 to Knights-Griffin Road and includes a pond site alternative analysis. This study provides pond locations that are both hydraulically feasible and environmentally permitable based on the best available information. The pond site locations were evaluated for cultural resources, environmental impacts, right-of-way costs, and drainage considerations.

This report also addresses floodplain encroachment compensation areas for the Alexander Street Bypass segment of roadway from I-4 to Knights-Griffin Road.

#### SECTION 1.0

#### INTRODUCTION

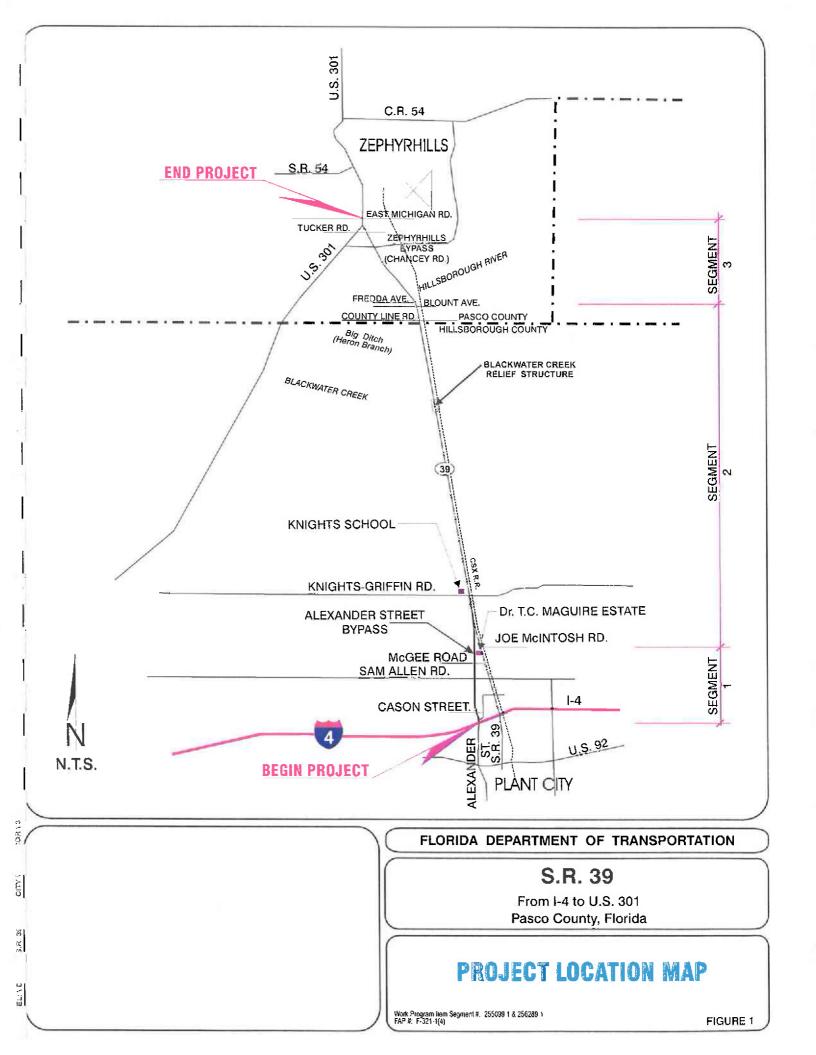
#### 1.1 PROJECT DESCRIPTION

Through the PD&E Study process, the FDOT is evaluating the expansion of S.R. 39 to a four-lane facility from the vicinity of Joe McIntosh Road in Hillsborough County to the vicinity of U.S. 301 in Pasco County. In addition, the FDOT is evaluating the extension of Alexander Street Bypass as a four-lane facility from Interstate 4 (I-4) northward to S.R. 39 in the vicinity of Joe McIntosh Road.

The S.R. 39 corridor is functionally classified as a north/south minor arterial facility between I-4 and U.S. 301. S.R. 39 is part of the Federal-Aid Primary and State Highway System and is classified as an emergency evacuation route. The project limits extend from I-4 in Plant City and Hillsborough County to U.S. 301 in Pasco County, a distance of 21.2 kilometers (km) [13.2 miles (mi)]. Figure 1 illustrates the limits of the study area in relation to the highway system.

S.R. 39 is currently a two-lane undivided roadway with drainage ditches adjacent to the existing roadway. A CSX Transportation railroad line parallels the existing roadway on the east side of S.R. 39 for approximately 17.7 km (11.0 mi) from the existing S.R. 39 and I-4 intersection to a point just north of Crystal Springs in Pasco County.

In 1988, FDOT began the PD&E Study for the widening of S.R. 39 from I-4 to U.S. 301. Early in the study process, it was determined that it would not be feasible to widen S.R. 39 from I-4 to the vicinity of Knights-Griffin Road. The existing facility could not be expanded to the west due to the presence of Plant City Memorial Park cemetery near the I-4 interchange and two structures located farther north that were found to be potentially eligible for listing on the *National Register of Historic Places (NRHP*<sup>12</sup>). Expansion to the east was constrained by the presence of the CSX railroad which parallels S.R. 39.



#### SECTION 2.0

#### **EXISTING CONDITIONS**

#### 2.1 LOCATION

The project is located within Sections 5, 6, 8, 17, and 20 of Township 28 South, Range 22 East; Sections 6, 7, 18, 19, 30, and 31 of Township 27 South, Range 22 East; and Section 1 of Township 27 South, Range 21 East in Hillsborough County and Sections 14, 23, 24, 25, and 36 of Township 26 South, Range 21 East in Pasco County. The location and limits of the project are shown in Figure 1.

#### 2.2 EXISTING CONDITIONS

S.R. 39 is currently a two-lane undivided roadway with drainage ditches adjacent to the existing roadway. A CSX Transportation railroad line parallels the existing roadway on the east side of SR 39 for approximately 17.7 km (11.0 mi) from the existing S.R. 39 and I-4 intersection to a point just north of Crystal Springs.

The existing land use patterns along the S.R. 39 corridor are both urban and rural in character. At the southern terminus, the Plant City urban district extends northward from I-4 to the vicinity of Sam Allen Road. This area is primarily residential in nature with minor commercial development. The Memorial Park Cemetery is located in the northwest quadrant of I-4 and S.R. 39. Land uses in the central portion of the study area from Sam Allen Road north to the vicinity of Zephyrhills consist of agricultural uses, rural residential development, vacant parcels, and a few commercial/industrial uses. Based on the Hillsborough and Pasco County Comprehensive Plans, development activity adjacent to, and in the vicinity of, the S.R. 39 corridor is converting from agricultural land use to residential, commercial, and industrial land use. In addition, an ultra-light aircraft airport is located to the east of S.R. 39. At the northern portion of the project in Zephyrhills, the land uses are primarily residential development.

#### SECTION 3.0

#### **DESIGN INFORMATION**

#### 3.1 DESIGN INFORMATION SOURCES

This Pond Siting Report (PSR) is prepared according to the requirements set forth in the FDOT Drainage Manual (Topic No. 625-040-001-b). Engineering specifics will be further addressed during the project design phase.

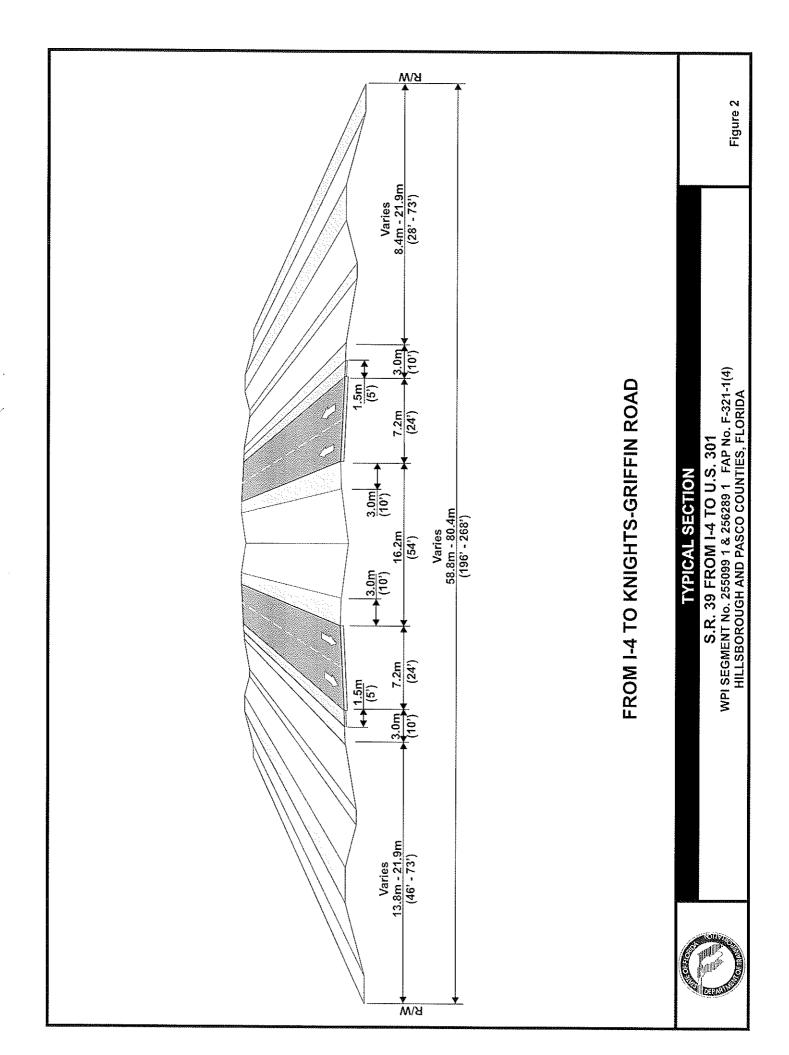
Sources of information for the investigation and development of this report include:

- USGS Quadrangle Maps;
- Southwest Florida Water Management District (SWFWMD) Contour Maps;
- FEMA Flood Insurance Rate Maps for Hillsborough and Pasco Counties;
- FEMA Flood Insurance Studies for Hillsborough and Pasco Counties;
- Soil Surveys of Hillsborough and Pasco Counties;
- Florida Department of Transportation S.R. 39 Widening Plans;
- Recent I-4 Plans and Drainage Calculations;
- City of Plant City, Westside Canal Stormwater Management Master Plan; and
- Floodplain Information on the Blackwater Creek and Hillsborough River Watershed by SWFWMD.

A detailed list of references is provided in Section 9.0 of this document.

#### 3.2 DESIGN ASSUMPTIONS

The scope of this report covers general planning information. Much of the existing data was taken from FDOT construction plans and previous design information. Detailed calculations will be



#### 3.5 STORMWATER QUANTITY

The design of detention ponds will be in accordance with the Environmental Resource Permitting (ERP) Manual, which requires that the discharge rate for post-development not exceed that of predevelopment. FDOT critical duration requirements will also be followed. Design storm frequency for stormwater ponds of 25 years for an open basin, 100 years for a closed basin, with a duration of 24 hours for both based on the SWFWMD Type II Florida Modified rainfall distribution. The durations required to satisfy the FDOT critical duration criteria will also be utilized.

#### 3.6 POND SITE CONFIGURATION

The proposed wet detention ponds are typically based on a 6.1 m (20 ft) perimeter strip for maintenance activities. The proposed ponds will have a minimum of 1:4 vertical to horizontal side slopes and a minimum of 0.30 m (1 ft) of freeboard between the maximum design stage and the top of bank of the pond.

#### 3.7 POND VOLUME

Pond volumes were estimated by calculating the required treatment volume and attenuation volume within each basin area. Detailed calculations are contained in Appendix A. The sum of these estimated volumes and maintaining a 0.30 m (1 ft) of free board was used to determine wet detention pond sizes.

#### **SECTION 4.0**

#### PROPOSED CONDITIONS

#### 4.1 PROPOSED DRAINAGE SYSTEM

The proposed drainage system for the Alexander Street Bypass will consist of a combination of rural and suburban sections. From I-4 to Cason Street, runoff from the roadway will drain to roadside conveyance ditches and then to detention ponds for stormwater treatment and attenuation. A separate collector ditch is proposed outside of the conveyance ditch which will collect offsite runoff and direct this flow to cross-drains under the roadway. From Cason Street to the tie-in to S.R. 39, runoff from the roadway will drain to roadside conveyance ditches and then to stormwater treatment and attenuation ponds. There is no separate offsite runoff collector ditch for this area. The preliminary roadway profile grade line from I-4 to Knights-Griffin Road is shown in Appendix A.

There are five drainage basins within the project limits of the Alexander Street Bypass. Generally, all roadway runoff and any adjacent off-site drainage area that has to be taken into the conveyance system will be collected and discharged to stormwater management ponds. The following section of this report includes a brief discussion of the major basin boundaries, the general flow paths, and how project and offsite drainage is proposed to be handled for the proposed improvements.

#### 4.1.1 Basin 1

The drainage area for Basin 1 is approximately 5.5 hectares (13.6 acres) in size from Station 22+50 to Station 29+25. The basin begins at I-4 and ends approximately at Cason Street. The proposed vertical alignment will sag near Station 26+20 and then rise to a high point at Station 29+80, beyond the end Station of the drainage area. Roadway drainage north of Cason Street will be passed to the next northerly drainage basin. A cross drain will be provided at the sag so off-site flows can pass through.

#### **SECTION 5.0**

#### STORMWATER POND ALTERNATIVES

#### 5.1 METHODOLOGY

This section contains a review and recommendation of the stormwater management facilities proposed for this project. Each of the potential stormwater ponds were reviewed for wetland impacts, threatened and endangered species, contamination and historic/archaeological impacts.

In many cases, the outlines of the stormwater pond locations are shown as rectangular on the Alternate Pond Site Location Maps (Appendix C); however, during detailed design, these ponds could be shaped to follow existing features such as adjacent wetlands to provide a more aesthetic and efficient appearance.

Additional factors considered in selecting the pond sites were that fewer, larger ponds will achieve better water quality treatment and will be less maintenance-intensive than numerous, smaller ponds. Maps from the Hillsborough County Property Appraiser's office were used as a guide in locating ponds to minimize land acquisition from multiple property owners. Remainder parcels or parcels which will be required for the roadway right-of-way were reviewed for potential pond site locations. The Alternate Pond Site Location Maps in Appendix C show the stormwater pond locations and the basin limits. Three alternative pond sites were evaluated for each drainage basin. The pond size is dependent on the SHWT elevation and if the pond will be receiving off-site drainage. Therefore, each pond alternate area will vary because the SHWT depth and off-site drainage areas vary. Table 1 summarizes the pond site alternatives.

See Table 2 for a matrix showing the factors involved in selecting the preferred or recommended pond sites. The locations of the alternate pond sites were furnished to FDOT and right-of-way cost estimates were developed. The right-of-way cost information is included in Appendix F.

TABLE 2

# S.R. 39 Pond Siting Report POND SITING MATRIX

				***	Alternate Pond Sites	tes			
		Basin 1			Basin 2			Basin 3	
FACTORS	PIA	PIB	)Id	P2A	P2B	P2C	P3A	P3B	P3C
Business Impact	0	0	<b>,</b> (	0	0	0	0	0	0
Residential Impact		0	0	0	0	5	0	0	0
Sign Impact	0	0	0	0	0	0	0	0	0
Special Impact	0	0		0	0	0	0	0	0
Impact Total	1	0	2	0	0	5	0	0	0
Contamination Impacts	I/N	I/N	I/Z	I/N	N/Z	I/N	I/N	N/I	N/I
Wetland Impacts	I/N	I/N	I/N	I/N	I/N	N/I	I/N	N/I	N/I
Threatened & Endangered Species	IN	I/N	I/N	I/N	I/N	N/I	N/I	I/X	N/I
Archaeological Impacts	I/N	I/N	Ιχ	N/I	N/I	N/I	N/I	I/Z	I/N
Right-of-Way Cost	\$441,600	\$112,000	\$440,200	\$337,400	\$287,800	\$1,157,600	\$338,300	\$304,800	\$229,900
Recommended Pond Site		×		X					X
									***************************************

			Alternate	Alternate Pond Sites		
		Basin 4			Basin 5	
FACTORS	V Pd	P4B	P4C	PSA	BSB	D\$4
Business Impact	0	0	0	0	1	<b>}</b>
Residential Impact	2	2	0	Į	0	
Sign Impact	0	0	0	0	0	0
Special Impact	0	0	0	0	1	
Impact Total	2	2	0	Ţ	2	3
Contamination Impacts	I/N	N/I	I/N	I/N	I/N	N/I
Wetland Impacts	I/Z	N/I	I/N	I/N	I/N	I/N
Threatened & Endangered Species	I/N	I/N	I/N	I/N	N/I	N/I
Archaeological Impacts	I/N	I/N	I/N	I/N	N/I	I/N
Right-of-Way Cost	\$594,000	\$747,200	\$182,500	\$277,400	\$1,604,200	\$568,900
Recommended Pond Site			X	X		

## LEGEND:

N/I = No Involvement according to FDOT. Business, Residential, Sign, Special Impact = Type of impacts according to FDOT R/W Cost Estimate.

#### 5.2.4 Quantifiable Factors for Basin 1 Pond Site Alternatives

- Alternative P1A would have one residential impact.
- Alternative P1C would have one business impact and one special impact.
- Alternative P1B would have no estimated relocatees and be the least costly.

#### 5.2.5 Recommendation

Alternative Bond P1B is the recommended site for Basin 1.

#### 5.3 BASIN 2

The possible stormwater alternatives for Basin 2 will be located between Terrace Drive and Sam Allen Road or Station 29+25 to Station 43+60 and are provided below:

#### 5.3.1 **Pond P2A**

Pond P2A will be located between Station 35+30 and 37+30 (approximately) on the west side of the Alexander Street Bypass alignment. The required pond storage volume was calculated to be 10,361 m<sup>3</sup> (8.40 acre-feet). This 3.02 hectare (9.39 acre) alternate pond site consists of a portion of a large row crop farm. The farm property will be impacted by the proposed Alexander Street Bypass right-of-way. The outfall for this pond would be to the south at a proposed cross drain at Station 34+20.

#### **5.3.2** Pond P2B

The alternate site for Pond P2B is almost a mirror image of the site presented for Pond 2A. The site will be on the east side of the Alexander Street Bypass right-of -way and approximately between the stations mentioned for Pond Site P2A. The required pond storage volume was calculated to be 9,560 m<sup>3</sup> (7.75 acre-feet). This 3.37 hectare (8.33 acre) site also consists of a portion of the same large row crop farm that would be impacted for alternate Pond Site P2A. The outfall for this site will be the

#### 5.4.1 **Pond P3A**

The P3A pond site alternate will be located on the west side of the proposed Alexander Street Bypass alignment from Station 50+25 to Station 52+00. The total required pond storage volume was calculated to be 10,127 m³ (8.21 acre-feet). The area of the taking of this pond site will be 2.74 hectares (6.76 acres). The west side of this site is shown to be adjacent to a local road right-of-way, Jerry Red Road. This site is also a portion of another row crop farm and will be a single taking. The outfall for this pond would be to a wetland north of this proposed pond site.

#### 5.4.2 **Pond P3B**

Alternate pond site P3B would be located north of the intersection of the proposed Alexander Street Bypass alignment and Joe McIntosh Road extension. This site would be a single taking between Stations 56+80 and 58+20. The required pond storage volume was calculated to be 9,510 m<sup>3</sup> (7.71 acre-feet). This 2.39 hectare (5.9 acre) site is presently a pasture and a portion of a wetland is encroached upon at the northwest corner of the site. The outfall for this pond alternate will be a wetland located north of this alternate site.

#### **5.4.3 Pond P3C**

Pond site P3C alternative would be located on the east side of the Alexander Street Bypass alternative between Stations 52+00 and 54+50. The required pond storage volume was calculated to be 9,621 m<sup>3</sup> (7.80 acre-feet). This 2.75 hectare (6.80 acre) site is part of the same row crop farm that contains site P1A and will be a single taking. The P3C outfall will be a wetland located north of this alternate site.

#### 5.4.4 Quantifiable Factors for Basin 3 Pond Site Alternatives

- None of the Basin 2 alternatives would incur relocating impacts.
- Alternative P3C would be the least costly.

#### 5.5.4 Ouantifiable Factors for Basin 4 Pond Site Alternatives

- Alternative P4A and P4B would have two residential impacts each.
- Alternative P4C is the least costly and hydraulically adequate.

#### 5.5.5 Recommendation

Alternative Pond P4C is the recommended site for Basin 4.

#### 5.6 BASIN 5

The pond site alternatives for Basin 5 Station 68+00 to Station 73+40 are as follows:

#### 5.6.1 Pond P5A

Pond P5A will be located on the west side of the proposed roadway between McLin Drive and Station 70+50. The required pond storage volume was calculated to be 2,109 m³ (1.71 acre-feet). This 0.50 hectare (1.25 acre) site consists of rural developed areas on four parcels. These parcels will all be remainder parcels from the Alexander Street Bypass roadway right-of-way acquisition. The pond would outfall to a wetland area to the west of this alternate pond site.

#### 5.6.2 **Pond P5B**

Pond P5B will be located on the south side of Knights-Griffin Road and west of Knights Baptist Church. The required pond storage volume was calculated to be 1,998 m<sup>3</sup> (1.62 acre-feet). This site is currently undeveloped and consists of 0.63 hectares (1.56 acres). An existing drainage ditch located on the west side of the site will be the outfall for this alternate pond site.

#### SECTION 6.0

#### **ENVIRONMENTAL EVALUATION**

#### 6.1 JURISDICTIONAL WETLAND INVOLVEMENT

Field Surveys were conducted and according to a memorandum from FDOT, no jurisdictional wetland areas will be impacted by the limits of the proposed pond alternatives. See the FDOT memorandum dated November 22, 1999, in Appendix E.

#### 6.2 THREATENED AND ENDANGERED SPECIES

Field surveys were conducted and according to a memorandum from FDOT, no species listed as threatened or endangered were observed during the field reconnaissances within the potential pond locations. See the memorandum from FDOT, dated November 22, 1999 in Appendix E.

#### 6.3 CONTAMINATION

Field surveys were conducted and according to a memorandum from FDOT, Pond Site 5A is adjacent to Contamination Site Number 7. The site ranking was "medium" and additional contamination assessment activities are warranted. Further investigation will be completed on Contamination Site Number 7 prior to final design and construction. All other sites are considered to be ranked as "no" and should have no potential for contamination impacts. See the FDOT memorandum dated February 10, 2000 in Appendix E.

#### 6.4 HISTORICAL/ARCHAEOLOGICAL RESOURCES

A Cultural Resources Assessment Survey (CRAS) Report for the S.R. 39 (I-4 to U.S. 301) PD&E Study was originally prepared by Archaeological Consultants, Inc. (ACI) and completed in April 1992. An updated cultural resource assessment survey of the above referenced project was performed by ACI in January and October 1999. Work included background research, ground surface reconnaissance, systematic archaeological survey, and historic structures survey.

#### SECTION 7.0

#### FLOODPLAIN COMPENSATION SITE ALTERNATIVES

#### 7.1 METHODOLOGY

The Federal Emergency Management Agency (FEMA) has developed Flood Insurance Rate Maps (FIRMs) for the unincorporated areas of Hillsborough, Pasco counties and Plant City in the vicinity of the project. Information from the FEMA FIRMs was transferred to aerial maps to show the floodplain limits on the maps provided in Appendix D. FEMA FIRMs relevant for this project are listed in Section 9.0.

#### 7.2 FLOODPLAIN ENCROACHMENT

The proposed construction of the S.R. 39 Alexander Street Bypass will impact the 100-year floodplain at three locations. The majority of the encroachment is within the Pemberton Creek floodplain. Floodplain calculations are contained in Appendix B.

The first floodplain encroachment area is located in the Pemberton Creek floodplain from Station 23+50 to Station 28+25. The proposed roadway will transversely cross the floodplain. The total encroachment volume for this area is estimated at 16,035 m³ (13.0 acre-feet).

The second floodplain encroachment area is located in a tributary to Pemberton Creek from Station 31+25 to Station 33+50. The proposed roadway will transversely cross the floodplain. The total encroachment volume for this area is 1357 m³ (1.1 acre-feet).

The last area of floodplain encroachment is the Alexander Street Bypass from Station 54+80 to Station 55+60. The total encroachment volume for this area was estimated to be 826 m<sup>3</sup> (0.67 acrefeet).

The total floodplain encroachment volume and required floodplain compensation volume for the Alexander Street Bypass is estimated to be 18,256 m³ (14.8 acre-feet).

#### **SECTION 8.0**

#### **CONCLUSION**

Alternative stormwater detention and mitigation ponds were reviewed along the project corridor from I-4 to Knights-Griffin Road. Many parameters were evaluated for each site including right-of-way costs, construction costs, and permitting difficulty. Each prospective site was also reviewed for wetland, contamination, threatened and endangered species, and historical/archaeological impacts. In summary, the 15 proposed pond site alternates did not have any involvement with wetlands, contamination, threatened and endangered species, or historical/archaeological impacts.

Table 3 provides the recommended pond sites and their corresponding basins.

TABLE 3
RECOMMENDED POND SITES

Basin	Alternative Pond Site
1	PIB
2	P2A
3	P3C
4	P4C
5	P5A

It should be noted that the stormwater pond and mitigation area sizes, locations, and stormwater conveyance systems are conceptual and are based on preliminary data and assumptions. At the time of final design, pond sizes and locations could be modified pursuant to design and permitting requirements and additional geotechnical investigations.

#### **SECTION 9.0**

#### **REFERENCES**

- 1. USGS Quad Maps, Plant City West, Fla, 1975 Zephyrhills, Fla. 1975.
- 2. The following SWFWMD Aerials

Sections 5, 6, 8, 17, 20; Township 28 E; Range 22S

Sections 6, 7, 18, 19, 30, 31; Township 27E; Range 22S

Section 1 Township 27E; Range 21S

Sections 14, 23, 24, 25, 36; Township 26E; Range 21S

3. FEMA Flood Insurance Rate Maps

Panel No.	Community A A CALL	Effective Date
120113 0005B	Plant City	April 29, 1983
120112 0270D	Hillsborough County	August 3, 1992
120112 0260C	Hillsborough County	April 17, 1984
120112 0120C	Hillsborough County	April 17, 1984
120230 0470B	Pasco County	November 11, 1981
120230 0460D	Pasco County	September 30, 1992

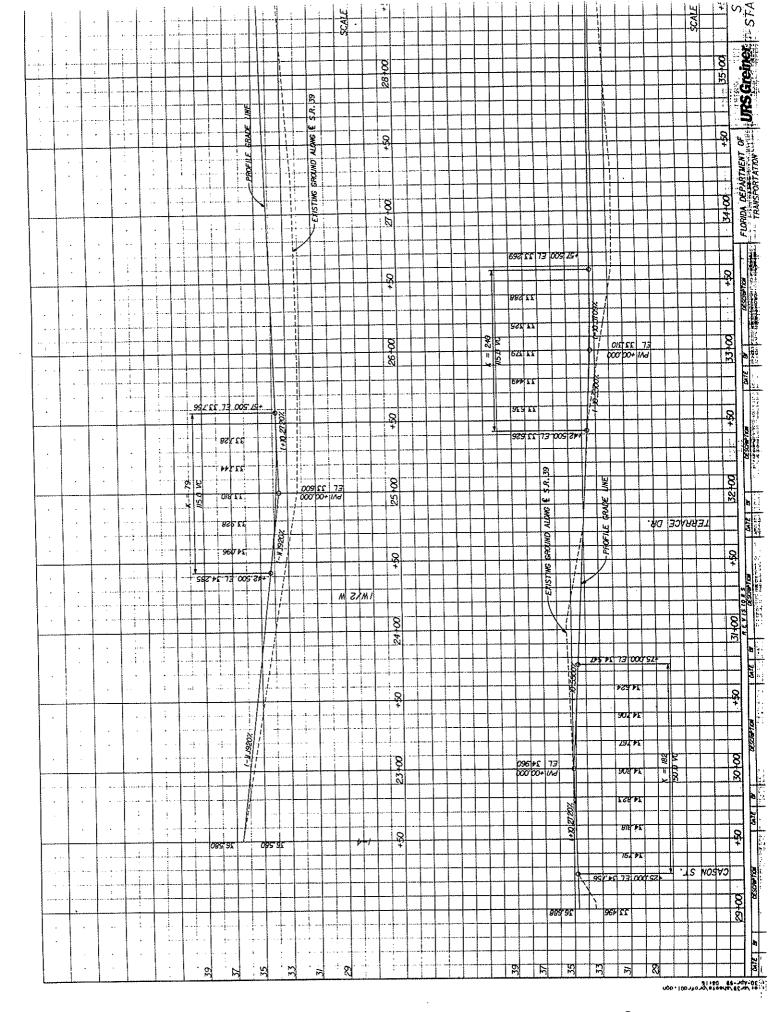
- 4. FIS Hillsborough County, August 3, 1992. FIS Pasco County, May 18, 1981.
- 5. NRCS Soils Surveys for Hillsborough County (1989) and Pasco County (June 1982).
- 6. Design Documentation for I-4 Drainage, (Volumes 1 through 4). Improvements (Segment 4) State Project Number: 10190-431, Work Program Number: 7143200, Federal Aid and Project Number: DPI-0043-(1). Proposed for FDOT by Parsons Brinkerhoff, Revised March 1996.
- 7. City of Plant City, Florida, Westside Canal Stormwater Management Plan, May 1997, by Camp Dresser and McKee.

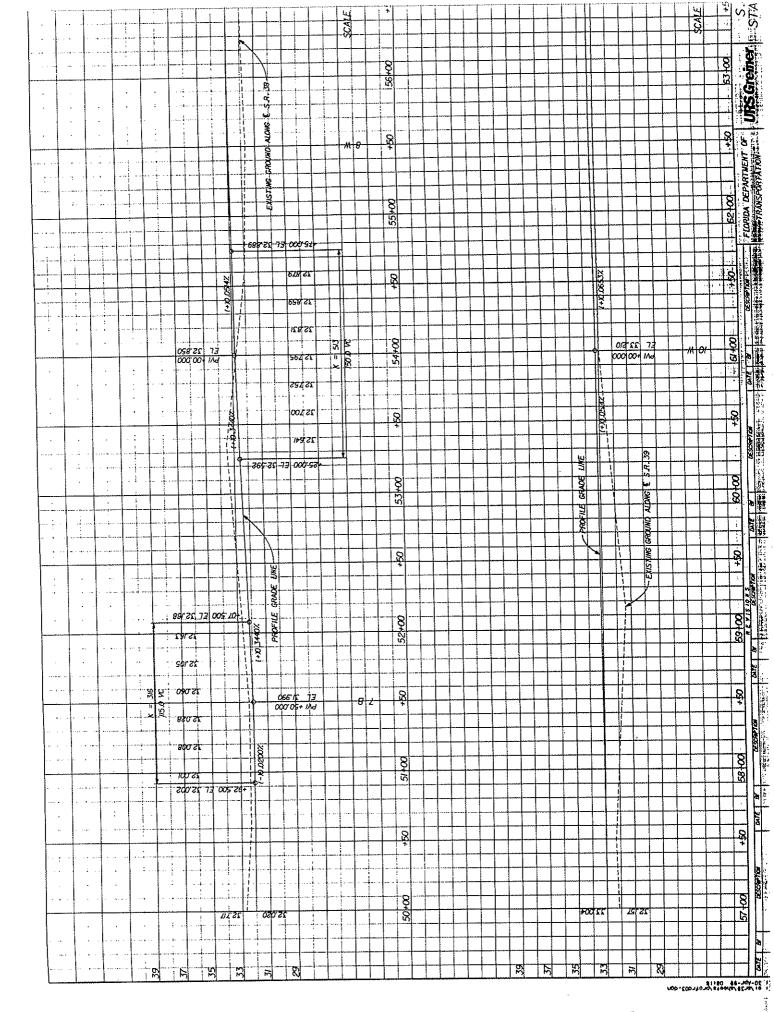
#### SR39 / ALEXANDER ST. BYPASS POND SITING CALCULATIONS TABLE OF CONTENTS

- I. Basin 1 Description
  - A. Treatment Area
  - B. Pond Site P-1A

NOTE: All elevations in the computations are in feet, NGVD, unless noted otherwise. For each pond site the analyses are typically as follows:

- 1. Pond Site Conditions
- 2. Treatment Volume
- 3. Attenuation Volume
- 4. Total Pond Volume Required
- 5. Pond Configuration
- C. Pond Site P-1B
- D. Pond Site P-1C
- II. Basin 2 Description
  - A. Treatment Area
  - B. Pond Site P-2A
  - C. Pond Site P-2B
  - D. Pond Site P-2C
- III. Basin 3 Description
  - A. Treatment Area
  - B. Pond Site P-3A
  - C. Pond Site P-3B
  - D. Pond Site P-3C





JOB: SR39 / ALEXANDER ST. BYPASS

DESCRIPTION: I. Basin 1 Description

SHEET\_OF\_\_ PROJ. NO. <u>C100003240.19</u> COMPUTED BY: Zinner DATE: 03-06-2000

CHECKED BY: KAG DATE: 03-15-00

From station 22+50 to 29+25

Length = 675 m = 2215 ft

R/W width from I-4 to Cason Street = 268 ft

R/W area =  $2215 \times 268 = 593,620 \text{ ft2} = 13.63 \text{ ac} = 5.52 \text{ ha}$ 

#### A. Treatment Area

See attached CN calculations for the total drainage area.

JOB: SR39 / ALEXANDER ST. BYPASS
DESCRIPTION: B. Alternate Pond Site P-1A

SHEET\_OF\_\_ PROJ. NO. <u>C100003240.19</u>
COMPUTED BY: Zinner DATE: 03-06-2000
CHECKED BY: KAG- DATE: <u>03-15-00</u>

#### 1. Pond Site Conditions

Location: Station 28+00 right

Existing grade elevation of site: the average grade is approximately 113.0.

Existing Soils Types: predominantly Lake and Seffner soils.

Existing Seasonal High Water Table (SHWT) of pond site:

The following data is available:

Source	Estimated SHWT Elevation (ft, NGVD)
NRCS (SCS) Soils Survey states the depth to SHWT for Lake is > 6.0' and Seffner soils is 1.5' to 3.5'	107.0 to 111.5
SHWT determination by Mark Brown of FDOT at approximately stations 25+70 to 27+23 of proposed Alexander Street Bypass alignment (see attached correspondence)	105.5 to 106.0

### The SHWT is estimated to be 107.0

Maximum Design High Water (DHW): The calculated shoulder elevation at the sump will be at 112.2.

Minimum Ditch Flow Line elevation: The attached profile shows that the proposed ditch will positively convey onsite runoff from one side of the proposed cross drain, and usually the outfall, to the pond inlet.

#### 2. Treatment Volume

This is not an existing roadway therefore the treatment volume is the entire contributing drainage area per Southwest Florida Water Management District (SWFWMD) criteria.

Type of Treatment: with high ground water in the pond area percolation will not be a mode of discharge. Therefore we will assume the type of stormwater treatment will be wet detention. Per SWFWMD criteria the required treatment volume for wet detention will be 1" of runoff from the total contributing drainage area. See attached CN calculations for the total drainage area.

Total Drainage Area = 13.64 ac (ASB R/W) + 7.39 (offsite and pond) = 21.03 acres

Treatment Volume: D.A. (ac) \* ( 1"/ 12"/' ) = 21.03 \* ( <math>1/ 12 ) = 1.75 ac-ft

For remander of this
memo see Communications
Appendix of this
report

interoffice MEMORANDUM

to:

Gabor Farkasfalvy, Dennis Jent, Carlos Lopez, John Kubler

from: Mark Brown

subject: SR 39 From 1-4 to US 301, PD&E Study, Wotland & Soil Water Levels

date: March 14, 1999

At the request of PD&E and Greiner, I conducted water level determinations at various station locations associated with the proposed Alexander Street Extension and potential SR 39 improvements. The attached aerials provided by Greiner designate the locations (blue dots) where surface and ground water elevations were evaluated while using biological and/or soil indicators. For the wetland crossings, various water level indicators were used to determine normal pool (NP), seasonal high water table (SHWT) and flood elevations. In some wetland cases only one or two indicators are present, but at least the SHWT elevation was determined using the best available indicator. For the soil horings, only the SHWT distance below grade was determined and compared with the NRCS Hillsborough County Soil Survey information.

In order to potentially minimize the effort needed by the DOT survey crew to spend on the sites. I have referenced the natural grade elevations listed in the table provided by Greiner. Depending on the degree of accuracy associated with those elevations and the necessity to compile exact clevations for the PD&E level study, the elevations I provide for each of the requested stations may be all that is needed. This is particular true for the soil borings that have a deep SHWT elevation compared to the proposed road grade. I refer to Gabor and Carlos for that decision. In any case, I will provide directions and survey locations on the aerials to assist the survey crew locate the sites for the Alexander Street Extension. The remaining SR 39 locations are adjacent to the existing R/W

Sites 1W and 2W (Sheet 1) - This is a severely dewatered swamp, which has resulted in a couple feet of muck oxidation within some portions. Since organic muck oxidizes down to an elevation where the soil stays somewhat saturated, an estimated SHWT equates to the interior grade elevations. I flagged six locations spaced 30-40 ft. apart within the proposed roadway alignment through the lower grade elevations. Based on plant cover, it appears these six flags cover an area where the SHWT still reaches existing grade. According to the table, the grade elevation from that area (Stations 25+70 and 27+23) are 105.5 ft. and 106.0 ft. Location: Lither Alexander Street from the south or Franklin Street from the north, take the North Frontage Lane (dirt) down the proposed extension route. There are pink locator flags leading down to the lower elevations from a tree along the north side of the adjacent horse stables.

Site 3W (Sheet 2) - The wetland boundary is further north than depicted on the aerial so the site was moved north. I nailed a SHWT and NP elevation in a maple adjacent to a small pond. I can't get a good handle on the grade elevation at that location. Station 33+63 is listed as 110.0 ft., Stations 34+24 and 34+85 are listed as 105.0 ft. and 104.0 ft. Even though the nailed tree is closest to Station 33.1 can't help but believe the grade is closer to 105 ft. Location: Take Terrace Drive west from

-SHUT estimate near alt. Fond site PIA.

JOB: SR 39, ALEXANDER ROAD BYPASS	SHEET of		PROJ.	NO. C100003240.19
DESCRIPTION: Runoff Volume Calculations	COMPUTED BY	Jim Zinner	DATE	03-03-2000
for FDOT critical duration analysis	CHECKED BY	KAG	DATE	03-15-00

## NRCS Runoff Curve Number Method Equation

$$Qr = (P - la)^2 / (P + 0.8S)$$

where: Qr = runoff in inches

P = rainfall in inches

la = 0.2S (initial abstraction)

S = (1000 / CN) - 10

substituting la and then S into the runoff equation yields:

$$Qr = (P - 0.2 (1000 / CN - 10))^2 / (P + 0.8 (1000 / CN - 10))$$

JOB: SR 39, ALEXANDER ST. BYPASS	T SHEET of	PROJ. NO. C100003240.19
JOB. SR 39, ALLXANDER OF BOLLS	COMPUTED BY Jim Zinner	DATE 03-06-2000
DESCRIPTION: Namen volume		DATE 03-15-00
for alt. pond P1A volume analysis	CHECKED BY KAG	DATE OS BOO

FDOT 100 Year Storm

	Rainfall
Duration	Depth
(hr)	(in)
1	4.25

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Volume (ac-ft)	Post-Pre Volume (ac-ft)
P1A EXIST 1	77	2.01	7.38	1.24	P1A PROP 1	83	2.50	13.64	2.85	
P1A EXIST 2	55	0.63	6.26	0.33	P1A PROP 2	89	3.06	3.73	0.95	
	72	1.64	3.73	0.51	P1A OFFSITE	76	1.93	3.66	0.59	
P1A EXIST 3	• —		3.66	0.59	. ,,					
P1A OFFSITE	76	1.93			Total			21.03	4.39	1.72
Total			21.03	2.66	Total					

	Rainfall
Duration	Depth
(hr)	(in)
2	6

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Volume (ac-ft)	Post-Pre Volume (ac-ft)
P1A EXIST 1	77	3.48	7.38	2.14	P1A PROP 1	83	4.09	13.64	4.65	
P1A EXIST 2	55	1.52	6.26	0.79	P1A PROP 2	89	4.74	3.73	1.47	
P1A EXIST 3	72	2.99	3.73	0.93	P1A OFFSITE	76	3.38	3.66	1.03	
P1A OFFSITE	76	3.38	3.66	1.03						0.00
Total			21.03	3.86	Total			21.03	7.15	3.29

	Rainfall
Duration	Depth
(hr)	(in)
4	7.36

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Volume (ac-ft)	Post-Pre Volume (ac-ft)
P1A EXIST 1	77	4.69	7.38	2.88	P1A PROP 1	83	5.37	13.64	6.10	
P1A EXIST 2	55	2.36	6.26	1.23	P1A PROP 2	89	6.06	3.73	1.88	
P1A EXIST 3	72	4.14	3.73	1.29	P1A OFFSITE	76	4.58	3.66	1.40	
P1A OFFSITE	76	4.58	3.66	1.40						
Total			21.03	5.40	Total			21.03	9.38	3.98

JOB: SR 39, ALEXANDER ST. BYPASS	SHEET		PROJ. NO. C100003240.19
DESCRIPTION: Pond Stage Storage Calculations	COMPUTED BY	' Jim Zinner	DATE 03-06-2000
for alternate pond P1A volume analysis	CHECKED BY	KAG	DATE 03-15-00

STAGE - STORAGE CALCULATIONS (English Units)

INPUT:

ĺ	2.8	ac	A = Area at Top of Basin
İ	1360	ft	P = Perimeter at Top of Basin
	4	fth/1ftv	S = Avg. Side Slope of Basin
	0.25	ft	H = Incremental Stage of Basin
Ì	113	ft, elevation	E1 = Elevation at the Top of Basin
	107	ft, elevation	E2 = Elevation at Lower Depth of Basin

FORMULAE: n = (E1 - E2)/H

VARIABLES: n = Number of Incremental Stages

An = (An - 1) - (Pn - 1SH) Vn = (An - (An - 1))/2H

An = Incremental Area Vn = Incremental Volume

OUTPUT:

	Vn = ( An - ( Ar	ı - 1 )) / 2H		vn = incremen	ital volume
Ī	Stage El.	Inc. Area	Inc. Storage	Volume	
	(ft, elev.)	(ac)	(ac-ft)	(ac-ft)	
•••	107.00	2.05	0.00	0.00	SHWT ELEV.
	107.25	2.08	0.52	0.52	
	107.50	2.11	0.52	1.04	
	107.75	2.14	0.53	1.57	
	108.00	2.18	0.54	2.11	TREATMENT VOL.
	108.25	2.21	0.55	2.66	
	108.50	2.24	0.56	3.22	
	108.75	2.27	0.56	3.78	
	109.00	2.30	0.57	4.35	
	109.25	2.33	0.58	4.93	
	109.50	2.36	0.59	5.52	
	109.75	2.39	0.59	6.11	
	110.00	2.43	0.60	6.71	DHW ELEV.
	110.25	2.46	0.61	7.32	
	110.50	2.49	0.62	7.94	
	110.75	2.52	0.63	8.57	
	111.00	2.55	0.63	9.20	
	111.25	2.58	0.64	9.84	
	111.50	2.61	0.65	10.49	
	111.75	2.64	0.66	11.15	
	112.00	2.68	0.66	11.81	SHOULDER ELEV. @ SUMP
	112.25	2.71	0.67	12.49	
	112.50	2.74	0.68	13.17	
	112.75	2.77	0.69	13.86	
	113.00	2.80	0.70	14.55	TOB ELEV.

JOB: SR39 / ALEXANDER ST. BYPASS SHEET\_OF\_ PROJ. NO. C100003240.19
DESCRIPTION: C. Alternate Pond Site P-1B (continued)

CHECKED BY: KAG DATE: 03-15-00

#### 3. Attenuation Volume

Existing (Pre-development) and Proposed (Post-development) Conditions volume of stormwater discharge: The methodology used for estimating the pre- and post-development volume of runoff was the NRCS (SCS) Runoff Curve Number Method.

See attached calculations for composite CN numbers, runoff volumes and the table below for a summary of results:

Rainfall Distribution, Event - Duration	Pre-development Runoff Volume (ac-ft)	Post-development Runoff Volume (ac-ft)	Volume Difference (ac-ft)
FDOT 100 year - 1 hour	2.17	3.84	1.67
FDOT 100 year - 2 hour	4.16	6.37	2.21
FDOT 100 year - 4 hour	5.86	8.43	2.57
FDOT 100yr - 8hr	8.32	11.28	2.96
Florida Modified 6.70 Type II 25 year - 24 hour		9.41	2.41

Required Attenuation Volume = 2.96 ac-ft

#### 4. Total Pond Volume Required

The total stormwater treatment and attenuation volume: 1.64 + 2.96 = 4.60 ac-ft.

Total Pond Volume Required = 4.60 ac-ft

#### 5. Pond Configuration

See attached stage storage output for the pond configuration shown on maps in the Appendix.

Pond P-1B will accommodate the Total Pond Volume Required.

JOB: SR 39, ALEXANDER ST. BYPASS	SHEET	of	PROJ. NO. C100003240.19
	COMPUTED BY	Jim Zinner	DATE 03-06-2000
for alt. pond P1B volume analysis	CHECKED BY	Kag	DATE 63-15-00

FDOT 100 Year Storm

	Rainfall
Duration	Depth
(hr)	(in)
1	4.25

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P1B EXIST 1	77	2.01	7.38	1.24	P1B PROP 1	81	2.33	13.53	2.63	
P1B EXIST 2	55	0.63	6.26	0.33	P1B PROP 2	88	2.96	2.97	0.73	
P1B EXIST 3	53	0.54	2.86	0.13	P1B OFFSITE	74	1.78	3.20	0.48	
P1B OFFSITE	74	1.78	3.20	0.48						
Total			19.70	2.17	Total			19.70	3.84	1.67

	Rainfall
Duration	Depth
(hr)	(in)
2	6

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P1B EXIST 1	77	3.48	7.38	2.14	P1B PROP 1	81	3.88	13.53	4.38	<u>,                                      </u>
P1B EXIST 2	55	1.52	6.26	0.79	P1B PROP 2	88	4.63	2.97	1.14	
P1B EXIST 3	56	1.60	2.86	0.38	P1B OFFSITE	74	3.18	3.20	0.85	
P1B OFFSITE	74	3.18	3.20	0.85						
Total			19.70	4.16	Total			19.70	6.37	2.21

	Rainfall
Duration	Depth
(hr)	(in)
4	7.36

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P1B EXIST 1	77	4.69	7.38	2.88	P1B PROP 1	81	5.14	13.53	5.80	
P1B EXIST 2	55	2.36	6.26	1.23	P1B PROP 2	88	5.94	2.97	1.47	
P1B EXIST 3	56	2.46	2.86	0.59	P1B OFFSITE	74	4.36	3.20	1.16	
P1B OFFSITE	74	4.36	3.20	1.16						
Total			19.70	5.86	Total			19.70	8.43	2.57

JOB: SR 39, ALEXANDER ST. BYPASS	SHEET	of	PROJ. NO. C100003240.19
DESCRIPTION: Pond Stage Storage Calculation	COMPUTED BY	Jim Zinner	DATE 03-06-2000
for alternate pond P1B volume analysis	CHECKED BY	KAG	DATE 3/15/00

STAGE - STORAGE CALCULATIONS (English Units)

INPUT:

2.14 ac	VARIABLES:	A = Area at Top of Basin
1670 ft 4 ft h / 1 ft v		P = Perimeter at Top of Basin S = Avg. Side Slope of Basin
0.25 ft		H = Incremental Stage of Basin
113.5 ft, elevation 108 ft, elevation		E1 = Elevation at the Top of Basin E2 = Elevation at Lower Depth of Basin

FORMULAE: n = (E1 - E2)/H

An = (An - 1) - (Pn - 1SH)

Vn = (An - (An - 1))/2H

VARIABLES: n = Number of Incremental Stages

An = Incremental Area Vn = Incremental Volume

OUTPUT:

					<del>"</del>
Ī	Stage El.	Inc. Area	Inc. Storage	Volume	1
	(ft, elev.)	(ac)	(ac-ft)	(ac-ft)	<u> </u>
٠	108.00	1.30	0.00	0.00	SHWT ELEV.
	108.25	1.33	0.33	0.33	
	108.50	1.37	0.34	0.67	
	108.75	1.41	0.35	1.02	
	109.00	1.45	0.36	1.37	
	109.25	1.49	0.37	1.74	TREATMENT VOL.
	109.50	1.53	0.38	2.12	
	109.75	1.56	0.39	2.50	
	110.00	1.60	0.40	2.90	
	110.25	1.64	0.41	3.31	
	110.50	1.68	0.42	3.72	
	110.75	1.72	0.42	4.15	
	111.00	1.76	0.43	4.58	
	111.25	1.79	0.44	5.02	DHW ELEV.
	111.50	1.83	0.45	5.48	
	111.75	1.87	0.46	5.94	
	112.00	1.91	0.47	6.41	SHOULDER ELEV. @ SUMP
	112.25	1.95	0.48	6.90	
	112.50	1.99	0.49	7.39	
	112.75	2.02	0.50	7.89	
	113.00	2.06	0.51	8.40	
	113.25	2.10	0.52	8.92	
	113.50	2.14	0.53	9.45	TOB ELEV.

JOB: SR39 / ALEXANDER ST. BYPASS SHEET\_OF\_ PROJ. NO. C100003240.19
DESCRIPTION: D. Alternate Pond Site P-1C
(continued) SHEET\_OF\_ PROJ. NO. C100003240.19
COMPUTED BY: Zinner DATE: 03-06-2000
CHECKED BY: CAC- DATE: 03-15 00

#### 3. Attenuation Volume

See alternate pond P1A calculations for the methodology used for estimating the pre- and post-development volume of runoff. See attached calculations for composite CN numbers, runoff volumes and the table below for a summary of results:

Rainfall Distribution, Event - Duration	Pre-development Runoff Volume (ac-ft)	Post-development Runoff Volume (ac-ft)	Volume Difference (ac-ft)
FDOT 100 year - 1 hour	1.84	3.84	2.00
FDOT 100 year - 2 hour	3.54	6.21	2.67
FDOT 100 year - 4 hour	5.03	8.11	3.08
FDOT 100 year - 8 hour	7.21	10.73	3.52
Florida Modified Type II 25 year - 24 hour	5.77	9.01	3.24

Required Attenuation Volume = 3.52 ac-ft

## 4. Total Pond Volume Required

The total stormwater treatment and attenuation volume: 1.48 + 3.52 = 5.00 ac-ft.

Total Pond Volume Required = 5.00 ac-ft

## 5. Pond Configuration

See attached stage storage output for the pond configuration shown on maps in the Appendix.

Pond P-1C will accommodate the Total Pond Volume Required.

Project: S.R. 39, Alexander Street Bypass Pond Siting Report

Subject: Existing Conditions Curve Number Calculations for Pond Alternate P1C

Project No.: C100003240.19

Computed By: Zinner Date: 03-06-2000

Sheet of

Checked By: KAG Date: めらいい

Project No.: C100003240.19	100003240	S .					1	CN = (Ha)n(CN)i + /Ha)i+1(CN)i+1 + (Ha)i+2(CN)i+2 + (Ha)n-1(CN)n-1 + (Ha)n(CN)n)) / Total Area	VCN)i+2 +		Ha	n-1(CN)n	-1 + (FB	)n(CN)n)	) / Total	Area		
	ŀ	; }			003 V 011		5			Pervio	Pervious Area	, ,						Composite
Basin	0(3)	i Orai	≡	100 m	Impervious Area		+	Soils						Land Use				
Name	Aca	ğ	Dayomont	Lair		Roofe	lacksquare	Symbol / Name	Hydrologic		Open Space	Woods	ds	Pasture	ure			
	Ë	Ą	T a	NO.	Ţ.	S	-7		Group	Ha	S	Ha	CN	Ha	S	На	CN	S
P4C EXIST4	2 988	7.38		86	0.010	╢	┪	Basinger, # 5, Myakka, #29	O	0.401	8	2.263	77					77
(exist R/W	2						Ťay	Tavares, #53	A	0.087	-							
south of						_	Sef	Seffner, #47	O	0.227	74							
crossing)											+							Ļ
P1C EXIST2	2.534	6.26		86		98		Basinger, # 5	۵		_	1.365	77					8
(exist. R/W							Ť	Lake, #25	A	-	-	1.169	95 25					
north of								- Linguista - Ling		_	_							
crossing)										_	$\downarrow$	_		00.0				58
P1C EXIST3	1.680	4.15		86		98		Seffner, # 47	ပ		+			0.528	4 2			
fexist bond							ā	Tavares, #53	¥		_			0.780	8			
area)					ļ	_	Ba	Basinger, # 5	۵		$\perp$	0.372	11					
	1	77.70					-											
otal	7.207	£/./3						Dond Silv D1C										
Subject: Propo	sed Condi	tions Curv	e Numbe	Zaz Zaz	Jianons			Subject: Proposed Conditions Curve Number Catediations for Alternate Point Sing 11-2014/CANALT ACCIDENT	+ CHINDIC		E	(Hah-1(CN)-1+ (Hah(CN)n)) / Total Area	1-1 + (H	a)n(CN)n	)) / Tota	Area		
L.,,,							<u>ح</u>	= ((Ha) (CN)  + (Ha) +  (CN) +   (11a)	7.17.10.77			7						Composite
Basin	Total	Total	<u> </u>	npervi	Impervious Area	m m	_			Fervi	Pervious Area	g						
Name	Area	Area		Land	Land Use			Soils						Land Use				
	:		Pavement	nent	×	Water	-	Symbol / Name	Hydrologic		Open Space	e Woods	Spc			Proposed	Proposed pond area	{
	Ž.	Ac	На	S	뫈	S	z		Group	Ha	-	I На	CN	모	S	На	Z C	200
P1C PROP1	5,522	13.64	1.697	86			83	Basinger #5, Myakka #29	a	2.794	-							28
(oron R/W				_		-	Ta	Tavares #53	∢	0.873								
north and						_	Se	Seffner #47	U	0.158	8 74				_			
south of						<u> </u>	_				1							
crossing)										-			_		-			
										_	$\dashv$	-	-		_	7.02	,	o
P1C PROP2	1.680	4.15		86	1.113		98 us						_		-	0.30	ţ	O.
(prop. pond)						_	ds	space for exist pond berms		$\downarrow$	+	1	_		_			
Total	7.202	17.79						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								-		
	IJl					-				1		0.00	000	accumed to be in Good condition	a Good co	ndilion		

NOTES: (1) Soit Names, Symbols and Hydrologic Soif Group were obtained from USDA Soil Conservation Service Soil Survey of Hillsborogh County, Florida.

(2) Runoff curve numbers for land use type were obtained from Table 2-2a Runoff curve numbers for Urban Areas & Table 2-2c Runoff Curve Numbers

for Agricultural Lands in USDA Soil Conservation Service Urban Hydrology for Small Watersheds, (TRS5 Manual).
(3) Open Spaces assumed to be in Fair condition (grass cover 50% to 75%).

(4) Woods assumed to be in Good condition (woods are protected from grazing, and litter and brush adequately cover the soil).

(5) Row crops assumed to be in Good condition

(6) Open spaces assumed to be in Good condition (grass cover 50 to 75%)

(7) Woods-Grass assumed to be in Good condition.

(8) Areas obtained from PD&E photobase plans produced by URS Greiner.

JOB: SR 39, ALEXANDER ST. BYPASS	SHEET	of	PROJ. NO. C100003240.19
DESCRIPTION: Runoff volume calc.s	COMPUTED BY	Jim Zinner	DATE 03-06-2000
for alt. pond P1C volume analysis	CHECKED BY	KAG	DATE 03-15-00
To all, portain to volune analysis			

FDOT 100 Year Storm

	Rainfall
Duration	Depth
(hr)	(in)
8	9.2

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P1C EXIST 1	77	6.39	7.38	3.93	P1C PROP 1	82	7.01	13.64	7.96	
P1C EXIST 2	55	3.63	6.26	1.90	P1C PROP 2	90	7.99	4.15	2.76	
P1C EXIST 3	58	4.01	4.15	1.39						
Total			17.79	7.21	Total			17.79	10.73	3.52

SWFWMD 25 Year Storm

	25 year	
Curve Type	Duration	Rainfall Amount (in)
NRCS (SCS) Type II Florida Modified	24 hr	8

The rainfall amount for the Type II Florida Modified Rainfall was taken from the SWFWMD ERP Manual (1999).

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P1C EXIST 1	77	5.27	7.38	3.24	P1C PROP 1	82	5.86	13.64	6.66	
P1C EXIST 2	55	2.78	6.26	1.45	P1C PROP 2	90	6.81	4.15	2.35	
P1C EXIST 3	58	3.11	4.15	1.08						
Total			17.79	5.77	Total			17.79	9.01	3.24

JOB: SR39 / ALEXANDER ST. BYPASS SHEET\_OF\_ PROJ. NO. C100003240.19
DESCRIPTION: II. Basin 2 Description COMPUTED BY: Zinner DATE: 03-06-2000
CHECKED BY: KAY DATE: 03-15-03

From station 29+25 to 43+60, along the Alexander Street Bypass (ASB)

Length = 1435 m = 4708 ft

R/W width from Cason Street to S.R. 39 = 222 ft

R/W area = 4708' x 222' = 23.99 ac

Sam Allen Road Intersection

Proposed widening of Sam Allen Road for turn lanes will occur on the east and west sides of the ASB R/W. See Treatment Area calculations for the total treatment area contributing from Sam Allen Road.

 JOB: SR39 / ALEXANDER ST. BYPASS
 SHEET\_OF\_ PROJ. NO. C100003240.19

 DESCRIPTION: II. Basin 2 (continued)
 COMPUTED BY: Zinner DATE: 03-06-2000

 CHECKED BY: ★AG\_ DATE: 03-15-∞

#### A. Treatment Area

According to SWFWMD criteria for alterations to existing public roadway projects the required treatment will be for runoff from the directly connected impervious areas (DCIA). For an in-line stormwater management system treatment of the total contributing DCIA is required. This would be applicable for the Sam Allen Road intersection and are computed as follows:

Proposed pavement reconstruction for Sam Allen on the east side of the ASB alignment:

Travel lanes with

Length = 80 m (262 ft), Width = 10.8 m tapering to 7.2 m [average = 9 m (30 ft)]

and
Turn lanes with

Length = 48 m (157 ft), Width = 7.2 m (24 ft)

Sub-area =  $(262 \times 30) + (157 \times 24) = 11628 \text{ sf} = 0.27ac$ 

Proposed pavement for Sam Allen on the west side of the ASB alignment:

Travel lanes with

Length =129 m (423 ft), Width = 10.8 m tapering to 7.2 m [average = 9 m (30 ft)]

and

Turn lanes

Length = 92 m (302 ft), Width = 7.2 m (24 ft)

Sub-area =  $(423 \times 30) + (92 \times 24) = 14898 \text{ sf} = 0.34 \text{ ac}$ 

Total DCIA for Sam Allen Road = 0.27 + 0.34 = 0.61 ac

The ASB treatment area is the entire R/W = 23.99 ac (see Basin 2 Description area calculations).

JOB: SR39 / ALEXANDER ST. BYPASS
DESCRIPTION: B. Alternate Pond Site P-2A
(continued)

SHEET\_OF\_\_ PROJ. NO. C100003240.19
COMPUTED BY: Zinner DATE: 03-06-2000
CHECKED BY: KPG DATE: 03-15 \*\*\*

#### 3. Attenuation Volume

See alternate pond P1A calculations for the methodology used for estimating the pre- and post-development volume of runoff. The attenuation volume calculations for the alternates pond sites in Basin 1 show that the FDOT 100 year - 8 hour storm was the critical duration event. Therefore only calculations for the FDOT 100 year - 8 hour and the SWFWMD Florida Modified Type II 25 year - 24 hour storm events will be performed for the remainder of this report.

See attached calculations for composite CN numbers, runoff volumes and below for results:

Rainfall Distribution, Event - Duration	Pre-development Runoff Volume (ac-ft)	Post-development Runoff Volume (ac-ft)	Volume Difference (ac-ft)
FDOT 100 year - 8 hour	11.27	17.16	5.89
Florida Modified Type II 25 year - 24 hour	8.89	14.25	5.36

Required Attenuation Volume = 5.89 ac-ft

## 4. Total Pond Volume Required

The total stormwater treatment and attenuation volume: 2.51 + 5.89 = 8.40 ac-ft.

Total Pond Volume Required = 8.40 ac-ft

## 5. Pond Configuration

See attached stage storage output for the pond configuration shown on maps in the Appendix.

Pond P-2A will accommodate the Total Pond Volume Required.



Project: S.R. 39, Alexander Street Bypass Pond Siting Report

Subject: Existing Conditions Curve Number Calculations for Pond Alternate P2A

Computed By: Zinner Date: 03-06-2000 Checked By: KAK Date: 43-15-00

Sheet of

Project No.: C100003240.19

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NI - 1/U - 1 Subject: Proposed Conditions Curve Number Calculations for Pond Alternate P2A

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			-				Service County Florida	TOTAL COLORANT	S FINANCE		SOM CLODS	assurier to	350 200	5		

NOTES: (1) Soil Names, Symbols and Hydrologic Soil Group were obtained from USDA Soil Conservation Service Soil Survey of Hilsborogh County, Florida.

(2) Runoff curve numbers for land use type were obtained from Table 2-2a Runoff curve numbers for Urban Areas & Table 2-2c Runoff Curve Numbers for Agricultural Lands in USDA Soil Conservation Service Urban Hydrology for Small Watersheds, (TR55 Manual).

Open Spaces assumed to be in Fair condition (grass cover 50% to 75%).
 Woods assumed to be in Good condition (woods are protected from grazing, and litter and brush adequately cover the soil).

(6) Open spaces assumed to be in Good condition (grass cover 50 to 75%)
 (7) Woods-Grass assumed to be in Good condition.
 (8) Areas obtained from PD&E photobase plans produced by URS Greiner.

				110 0400000040 40
JOB: SR 39, ALEXANDER ST. BYPASS	SHEET			NO. C100003240.19
DESCRIPTION: Pond Stage Storage Calculations	COMPUTED BY	Jim Zinner	DATE	03-06-2000
DESCRIPTION: 1 one diage diage distance	CHECKED BY	YPG		03-15-00
for alternate pond P2A volume analysis	101,20,422		L	

STAGE - STORAGE CALCULATIONS (English Units)

INPUT:

4.92 ac 2360 ft	VARIABLES:	A = Area at Top of Basin P = Perimeter at Top of Basin
4 ft h / 1 ft v		S = Avg. Side Slope of Basin H = Incremental Stage of Basin
0.25 ft 109 ft, elevation 105.5 ft elevation		E1 = Elevation at the Top of Basin E2 = Elevation at Lower Depth of Basin

FORMULAE: n = (E1 - E2)/H

VARIABLES:

n = Number of Incremental Stages

An = (An - 1) - (Pn - 1SH) Vn = (An - (An - 1))/2H

An = Incremental Area Vn = Incremental Volume

**OUTPUT**:

				<del></del>
Stage El.	Inc. Area	Inc. Storage	Volume	
(ft, elev.)	(ac)	(ac-ft)	(ac-ft)	
105.50	4.16	0.00	0.00	SHWT ELEV.
105.75	4.22	1.05	1.05	
106.00	4.27	1.06	2.11	
106.25	4.32	1.07	3.18	TREATMENT VOL.
106.50	4.38	1.09	4.27	
106.75	4.43	1.10	5.37	
107.00	4.49	1.11	6.49	
107,25	4.54	1.13	7.61	
107.50	4.59	1.14	8.76	DHW
107.75	4.65	1.16	9.91	
108.00	4.70	1.17	11.08	SHLDR ELEV @ SUMP
108.25	4.76	1.18	12.26	
108.50	4.81	1.20	13.46	
108.75	4.87	1.21	14.67	
109.00	4.92	1.22	15.89	TOB ELEV.

JOB: SR39 / ALEXANDER ST. BYPASS
DESCRIPTION: C. Alternate Pond Site P-2B
(continued)

SHEET\_OF\_ PROJ. NO. C100003240.19
COMPUTED BY: Zinner DATE: 03-06-2000
CHECKED BY: YAG DATE: 03-15-00

#### 3. Attenuation Volume

See alternate pond P1A calculations for the methodology used for estimating the pre- and post-development volume of runoff.

See attached calculations for composite CN numbers, runoff volumes and below for results:

Rainfall Distribution, Event - Duration	Pre-development Runoff Volume (ac-ft)	Post-development Runoff Volume (ac-ft)	Volume Difference (ac-ft)
FDOT 100 year - 8 hour	12.32	17.51	5.19
Florida Modified Type II 25 year - 24 hour	10.18	15.45	4.36

Required Attenuation Volume = 5.19 ac-ft

## 4. Total Pond Volume Required

The total stormwater treatment and attenuation volume: 2.56 + 5.19 = 7.75 ac-ft.

Total Pond Volume Required = 7.75 ac-ft

## 5. Pond Configuration

See attached stage storage output for the pond configuration shown on maps in the Appendix.

Pond P-2B will accommodate the Total Pond Volume Required.

The TOB of the proposed pond will have to be raised above the existing average grade approximately 1.75 foot.

DESCRIPTION: Runoff volume calc.s COMPUTED BY Jim Zinner DATE 03-06-2000	CARLES MAR CANNERS		
DESCRIPTION: Runoff volume calc.s COMPUTED BY Jim Zinner DATE 03-00-2000	DOD SD 30 ALEXANDER ST BYPASS	I SHEET of	PROJ. NO. C100003240.19
DESCRIPTION, Nation voiding states		COMPLITED BY Jim Zinner	DATE 03-06-2000
for alt nond P2R volume analysis ICHECKEU BY	DESCRIPTION: Nation voicine script		
(I) (AII, I) (I) I ZD VOIGING WHAT JOIN	for alt. pond P2B volume analysis	CHECKED BY (%C	DATE 63-15-00

FDOT 100 Year Storm

	Rainfall
Duration	Depth
(hr)	(in)
8	9.2

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P2B EXIST 1	46	2.53	8,24	1.73	P2B PROP 1	75	6.14	25.89	13.24	
P2B EXIST 2	62	4.51	17.64	6.63	P2B PROP 2	93	8.35	6.13	4.27	
P2B EXIST 3	88	7.74	6.13	3.96					477 774	
Total			32.01	12.32	Total			32.02	17.51	5.19

SWFWMD 25 Year Storm

Curve Type	Duration (hr)	Rainfall Depth (in)
NRCS (SCS) Type II Florida Modified	24	8

The rainfall amount for the Type II Florida Modified Rainfall was taken from the SWFWMD ERP Manual (1999).

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P2B EXIST 1	46	1.84	8.24	1.26	P2B PROP 1	75	5.04	25.89	10.88	
P2B EXIST 2	64	3.78	17.64	5.56	P2B PROP 2	93	7.16	6.13	3.66	
P2B EXIST 3	88	6.57	6.13	3.36					11 11 1	1.00
Total			32.01	10.18	Total			32.02	14.54	4.36

JOB: SR39 / ALEXANDER ST. BYPASS
DESCRIPTION: D. Alternate Pond Site P-2C

SHEET\_OF\_ PROJ. NO. <u>C100003240.19</u>
COMPUTED BY: Zinner DATE: 03-06-2000

CHECKED BY: KAG DATE: @3-15-00

#### 1. Pond Site Conditions

Location: Station 32+00 right

Existing grade elevation of site: grades range from 109.5 to 111.5, therefore the average grade is approximately 110.5

Existing Soils Types: entirely Orlando soils.

Existing Seasonal High Water Table (SHWT) of pond site:

The following data is available:

Source	Estimated SHWT Elevation (ft, NGVD)
Soils Survey states the depth to SHWT for Orlando soils is > 6'	104.5
SHWT determination by Mark Brown of FDOT at approximately station 32+00	104.08

## The SHWT is estimated to be 104.5

Maximum Design High Water (DHW) at pond site: The calculated shoulder elevation at the sump will be at elevation 107.9.

Minimum Flow Line elevation: See attached profile. It shows that the proposed ditch will positively convey onsite runoff from one side of the proposed cross drain, which is usually the outfall, to the pond inlet.

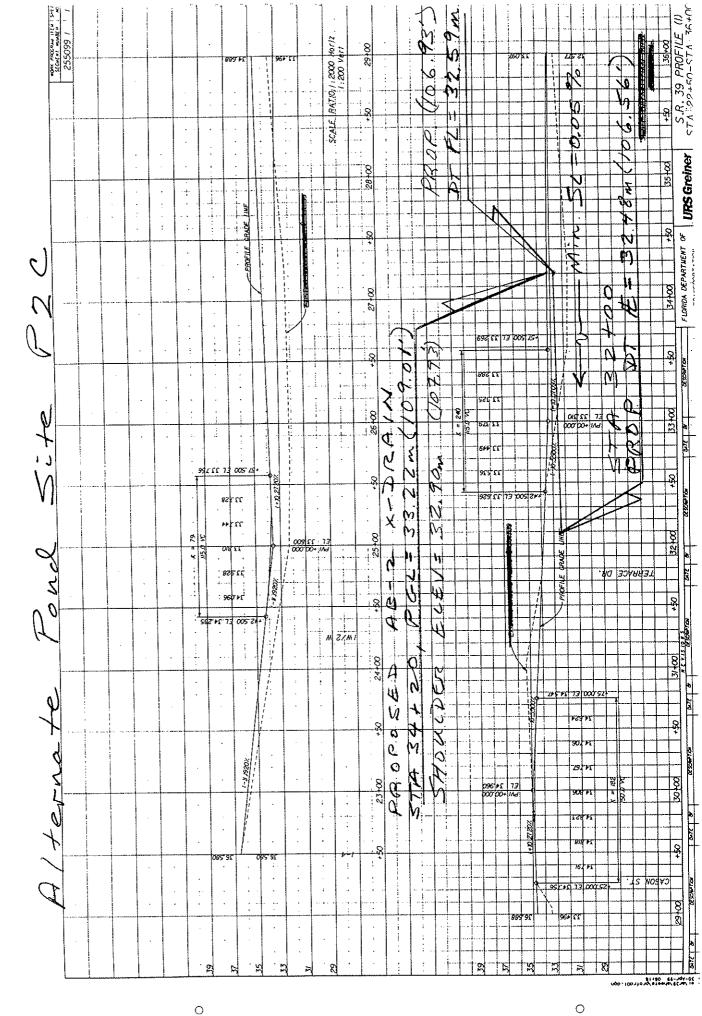
#### 2. Treatment Volume

See Treatment Area calculations for the ASB and Sam Allen Road treatment area. See the CN calculations for the pond area.

Total Treatment Area = 23.99 (ASB) + 0.61 (Sam Allen Rd.) + 3.79 (pond) = 28.38 ac

Treatment Volume = D.A. (ac) \* ( 1"/ 12"/' ) = 28.39 \* ( <math>1/ 12 ) = 2.37 ac-ft

Required Treatment Volume = 2.37 ac-ft



JOB: SR 39, ALEXANDER ST. BYPASS	SHEET of	PROJ. NO. C100003240.19
DESCRIPTION: Runoff volume calc.s	COMPUTED BY Jim Zinner	DATE 03-06-2000
for alt. pond P2C volume analysis	CHECKED BY KAG	DATE \$3-15-00

FDOT 100 Year Storm

	Rainfall
Duration	Depth
(hr)	(in)
8	9.2

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P2C EXIST 1	46	2.53	8.24	1.73	P2C PROP 1	75	6.14	25.89	13.24	
P2C EXIST 2	62	4.51	17.64	6.63	P2C PROP 2	94	8.48	3.79	2.68	
P2C EXIST 3	54	3.51	3.79	1,11						····
Total			29.67	9.47	Total			29.68	15.92	6.45

SWFWMD 25 Year Storm

Curve Type	Duration	Rainfall Amount
	(hr)	(in)
NRCS (SCS) Type II Florida Modified	24	8

The rainfall amount for the Type II Florida Modified Rainfall was taken from the SWFWMD ERP Manual (1999).

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P2C EXIST 1	46	1.84	8.24	1.26	P2C PROP 1	74	4.93	25.89	10.63	
P2C EXIST 2	64	3.78	17.64	5.56	P2C PROP 2	94	7.28	3.79	2.30	
P2C EXIST 3	54	2.68	3.79	0.85						
Total			29.67	7.66	Total			29.68	12.93	5.26

JOB: SR39 / ALEXANDER ST. BYPASS SHEET\_OF\_ PROJ. NO. C100003240.19
DESCRIPTION: B. Alternate Pond Site P-3A (continued) SHEET\_OF\_ PROJ. NO. C100003240.19
COMPUTED BY: Zinner DATE: 03-06-2000
CHECKED BY: DATE: 03-15-00

### 3. Attenuation Volume

See alternate pond P2C calculations for the methodology used for estimating the pre- and post-development volume of runoff.

See attached calculations for composite CN numbers, runoff volumes and below for results:

Rainfall Distribution, Event - Duration	Pre-development Runoff Volume (ac-ft)	Post-development Runoff Volume (ac-ft)	Volume Difference (ac-ft)
FDOT 100 year - 8 hour	11.50	17.29	5.78
Florida Modified Type II 25 year - 24 hour	9.15	14.50	5.35

Required Attenuation Volume = 5.78 ac-ft

## 4. Total Pond Volume Required

The total stormwater treatment and attenuation volume: 2.43 + 5.78 = 8.21 ac-ft.

Total Pond Volume Required = 8.21 ac-ft

## 5. Pond Configuration

See attached stage storage output for the pond configuration shown on maps in the Appendix.

Pond P-3A will accommodate the Total Pond Volume Required.

The TOB of the proposed pond will have to be raised above the existing average grade approximately 1 foot.

Project: S.R. 39, Alexander Street Bypass Pond Siting Report

Subject: Existing Conditions Curve Number Calculations for Pond Alternate P3A

Computed By: Zinner Date: 03-06-2000

Checked By:

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Sheet

Project No.: C100003240.19

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Subject: Propo	sed Condi	tions Curv	'e Numb	er Calc	Sulations	s for Alt	Subject Proposed Conditions Curve Number Calculations for Alternate Pond Site P3A	9 P3A										
ada: : malano	200					***************************************	(C):(-1 ())	+ CTICKLY TONIX + + /CONTACT OF INC.	SICKNIE +		(H <sub>2</sub> )	(Haln-1(CNln-1 + (Haln(CNln)) / Total Area	.11 + 1-	(CN)u	i) / Total	Area		

CN = ((Ha)i(CN)i + (Ha)i+1(CN)i+1 + (Ha)i+2(CN)i+2 +......(Ha)n-1(CN)n-1 + (Ha)n(CN)n)) / Total Area 20 Land Use Τ̈ S Woods 늄 Pervious Area Hydrologic Open Space Ç \$ 49 3.536 2.395 Ŧ Group ۵ | A Symbol / Name used percentages of CNs from existing conditions S 86 Water Impervious Area 포 0 Land Use N 86 Pavement 3.474 Ŧ 23.23 Total Area Ä 9.405 Total Area Ţ P3A PROP1 (prop. R/W north and south of Basin Name

Composite

S 8

prop. pond area

S

뿟

(2) Runoff curve numbers for land use type were obtained from Table 2-2a Runoff curve numbers for Urban Areas & Table 2-2c Runoff Curve Numbers NOTES: (1) Soil Names, Symbols and Hydrologic Soil Group were obtained from USDA Soil Conservation Service Soil Survey of Hillsborogh County, Florida.

used average CN for open

86

1.96

86

5.95

2.408

P3A PROP2

crossing)

(prop. pond)

29.18

11.813

Total

space for pond berms

(5) Row crops assumed to be in Good condition

8

74

0.448

(6) Open spaces assumed to be in Good condition (grass cover 50 to 75%)

(7) Woods-Grass assumed to be in Good condition.

(8) Areas obtained from PD&E photobase plans produced by URS Greiner.

Open Spaces assumed to be in Fair condition (grass cover 50% to 75%).
 Woods assumed to be in Good condition (woods are protected from grazing, and litter and brush adequately cover the soil).

for Agricultural Lands in USDA Soil Conservation Service Urban Hydrology for Small Watersheds, (TRS5 Manual).

JOB: SR 39, ALEXANDER ST. BYPASS	SHEET	•		NO. C100003240.19
DESCRIPTION: Pond Stage Storage Calculation	COMPUTED BY	Jim Zinner	DATE	03-06-2000
for alternate pond P3A volume analysis	CHECKED BY	KAK	DATE	03-15-00

STAGE - STORAGE CALCULATIONS (English Units)

INPUT:

5.05 2295		VARIABLES: A = Area at Top of Basin P = Perimeter at Top of Basin
4 0.25	ft h / 1 ft v	S = Avg. Side Slope of Basin H = Incremental Stage of Basin E1 = Elevation at the Top of Basin
	ft, elevation	E2 = Elevation at Lower Depth of Basir

FORMULAE:

n = (E1 - E2)/H

VARIABLES: n = Number of Incremental Stages

An = (An - 1) - (Pn - 1SH)Vn = (An - (An - 1))/2H An = Incremental Area
Vn = Incremental Volume

OUTPUT:

Stage El.	Inc. Area	Inc. Storage	Volume	
(ft, elev.)	(ac)	(ac-ft)	(ac-ft)	
		0.00	0.00	SHWT ELEV.
104.00	4.42			Oliver ELEV.
104.25	4.47	1.11	1.11	
104.50	4.52	1.12	2.24	
104.75	4.58	1.14	3.37	TREATMENT VOLUME
105.00	4.63	1.15	4.52	
105.25	4.68	1.16	5.69	
105.50	4.73	1.18	6.86	
105.75	4.79	1.19	8.05	
106.00	4.84	1.20	9.26	DHW ELEV.
106.25	4.89	1.22	10.47	
106.50	4.94	1.23	11.70	
106.75	5.00	1.24	12.95	
107.00	5.05	1.26	14.20	SHOULDER ELEV. @ SUMP
107.25	5.10	1.27	15.47	
107.50	5.16	1.28	16.75	
107.75	5.21	1.30	18.05	
108.00	5.26	1.31	19.36	TOB

JOB: SR39 / ALEXANDER ST. BYPASS
DESCRIPTION: C. Alternate Pond Site P-3B
(continued)
SHEET\_OF\_ PROJ. NO. C100003240.19
COMPUTED BY: Zinner DATE: 03-06-2000
CHECKED BY: VAY- DATE: 03-15 + 000

#### 3. Attenuation Volume

See alternate pond P1A calculations for the methodology used for estimating the pre- and post-development volume of runoff.

See attached calculations for composite CN numbers, runoff volumes and the table below for a summary of results:

Rainfall Distribution, Event - Duration	Pre-development Runoff Volume (ac-ft)	Post-development Runoff Volume (ac-ft)	Volume Difference (ac-ft)
FDOT 100 year - 8 hour	11.91	17.19	5.28
Florida Modified Type II 25 year - 24 hour	9.53	14.41	4.88

Required Attenuation Volume = 5.28 ac-ft

## 4. Total Pond Volume Required

The total stormwater treatment and attenuation volume: 2.43 + 5.28 = 7.71 ac-ft.

Total Pond Volume Required = 7.71 ac-ft

## 5. Pond Configuration

See attached stage storage output for the pond configuration shown on maps in the Appendix.

Pond P-3B will accommodate the Total Pond Volume Required.

The TOB of the proposed pond will have to be raised above the existing average grade approximately 1.75 feet.

Project: S.R. 39, Alexander Street Bypass Pond Siting Report

Subject: Existing Conditions Curve Number Calculations for Pond Alternate P3B

Project No.: C100003240.19

Checked By: KA6 Date: Q3-(C-De-(Ha)n-1(CN)n-1 + (Ha)n(CN)n)) / Total Area

Computed By: Zinner Date: 03-06-2000

ŏ

Sheet

		1					CN = ((Ha)i(CN)i + (Ha)i+1(CN)i+1 + (Ha)i+2(CN)i+2 +	+ (Ha)i+2(CN)i+.	- '- '-	Pervious Area	(Ta):	Pervious Area	(F)d ):	CINTIL	I Diai	200		Сотроѕіте
Basin	Total	lota	=	mpervik	Impervious Area	ga	sico						Lan	Land Use				
Name	Area	Area	6	Lan	Land Use	3	Sino Sino	Hydro	Hydrologic C	Open Space	ege ege	Woods	F	Row Crops	Sd	Pasture	ire	
	:		Pavement	nen	ک ا	Roois	<del>- 1-</del>	Group	_	먇	- - - - - -	Ha	<u>8</u>	문	<u>г</u>	На	N O	CN
	E .	HC SS SS	E L	5 6	a l	╁	Doctorer # 5	O				0.638	<u>77  </u> 0	0.297	88			90
P3B EXIST1	8.253	20.38		နှ <u>ြ</u>		5	7	7	4			2.030	30	1.989	29			
(exist. K/W								7	4			0.458	30	1.130	29			
south of						+	Marka #29	Ω				0.439	11					
crossing)					_	1	St. Johns. #46	Q	0			0.807	77 (	0.465	89			
OT COST	7 4 5	300		ő		ő	┪~			1.152	25	-	_					28
P3B EXIS IZ	701.1	20.7		8		5	-		-									
(exist. R/vv					_	+												
north of				_	ļ	-	Laboret Labore		-									
crossing)				_							-							
				_		+					-				-			
						-			1	1	1	+	╁	Ī	T	2 388	74	74
P3B EXIST3	2.388	5.90		88		88	8 Myakka, #29						$\dagger$			200		
(exist. pond											1		+					
area)											1		+		$\dagger$			
										T	$\dagger$		$\dagger$		1			
Total	11.793	29.13		_		_							-					
Subject: Proposi	ed Condit	ions Curv	e Numb	er Cak	culation	s for A	Subject: Proposed Conditions Curve Number Calculations for Alternate Pond Site P3B											
							CN = ((Ha)i(CN)i + (Ha)i+1(CN)i+1 + (Ha)i+2(CN)i+2 + (Ha)i+2(CN)i+2 + (Ha)i+2(CN)i+3 + (Ha)i+3(CN)i+3 + (Ha)i+3 + (H	+ (Ha)i+2(CN)i+			(Ha)	(Ha)n-1(CN)n-1 + (Ha)n(CN)n)) / 10tai Area	+ (Ha)	n(CN)n)	) / lotai	Area		Omposito
Rasin	Total	Total		mperv	Impervious Area	ea			٦	Pervious Area	Area							anendino
o weiv	Area	Area		Lan	Land Use		Soils						ľa	Land Use	ŀ			
2			Pavement	ment		Water	Symbol / Name	Hydr	Hydrologic	Open Space	pace	Woods	1					
	Ξ	Ac	ΕΞ	S	L	一	Т''''	Ö	dr	ΕΉ	S	Fa	2	모	N O	Ha	Z C	ع د
P3B PROP1	9.405	23.23	3.474	╫╌	0	┢	98 used percentages of CNs			3.536	象		-					00
(nroo, R/W							from existing conditions		۵	2,395	49							
north and													+					
south of																		
crossing)									1				$\dagger$					
													$\dagger$			0.403	74	63
P3B PROP2	2.388	5.90	0	86	1.895	-	98 used average CN for open					$\uparrow$	$\dagger$			00.4.0	-	)
(prop. pond)							space for pond berms				1	1	t					
Total	11.793	29.13		<u> </u>									1					
							Spirit State County Florida	- willehoroup	Suph Flo	irta	_	(5) Row crops assumed to be in Good condition	assume	I to be in G	ood conditi	LO.		

NOTES: (1) Soil Names, Symbols and Hydrologic Soil Group were obtained from USDA Soil Conservation Service Soil Survey of Hillsborogh County, Florida.

(2) Runoff curve numbers for land use type were obtained from Table 2-2a Runoff curve numbers for Urban Areas & Table 2-2c Runoff Curve Numbers

for Agricultural Lands in USDA Soil Conservation Service Urban Hydrology for Small Watersheds, (TRS5 Manual).

(4) Woods assumed to be in Good condition (woods are protected from grazing, and litter and brush adequately cover the soil). (3) Open Spaces assumed to be in Fair condition (grass cover 50% to 75%).

(5) Row crops assumed to be in Good cor

(6) Open spaces assumed to be in Good condition (grass cover 50 to 75%)

(7) Woods-Grass assumed to be in Good condition

(8) Areas obtained from PD&E photobase plans produced by URS Greiner.

JOB: SR 39, ALEXANDER ST. BYPASS	SHEET	•		NO. C100003240.19
DESCRIPTION: Pond Stage Storage Calculations	COMPUTED BY	Jim Zinner	DATE	03-06-2000
for alternate pond P3B volume analysis	CHECKED BY	KOG	DATE	03-15-00

STAGE - STORAGE CALCULATIONS (English Units)

INPUT:

•••	<u> </u>	( —		
ſ	4.77	ac	VARIABLES:	A = Area at Top of Basin
1	1968	ft		P = Perimeter at Top of Basin
ı	4	ft h / 1 ft v		S = Avg. Side Slope of Basin
ı	0.25	ft		H = Incremental Stage of Basin
ŀ	105.75	ft, elevation		E1 = Elevation at the Top of Basin
	103	ft, elevation		E2 = Elevation at Lower Depth of Basin

FORMULAE:

n = (E1 - E2)/H

VARIABLES: n = Number of Incremental Stages

An = (An - 1) - (Pn - 1SH)

An = Incremental Area

Vn = (An - (An - 1))/2H

Vn = Incremental Volume

OUTPUT:

Γ	Stage El.	Inc. Area	Inc. Storage	Volume	
	(ft, elev.)	(ac)	(ac-ft)	(ac-ft)	
i.	103.00	4.27	0.00	0.00	SHWT ELEV.
	103.25	4.32	1.07	1.07	
	103.50	4.36	1.09	2.16	
	103.75	4.41	1.10	3.26	TREATMENT VOLUME
	104.00	4.45	1.11	4.36	
	104.25	4.50	1.12	5.48	
	104.50	4.54	1.13	6.61	
	104.75	4.59	1.14	7.75	DHW & SHOULDER ELEV. @ SUMP
	105.00	4.63	1.15	8.91	
	105.25	4.68	1.16	10.07	
	105.50	4.72	1.18	11.25	
	105.75	4.77	1.19	12.43	TOB ELEV.

OB: SR39 / ALEXANDER ST. BYPASS SHEET\_OF\_ PROJ. NO. C100003240.19
DESCRIPTION: D. Alternate Pond Site P-3C
(continued) SHEET\_OF\_ PROJ. NO. C100003240.19
COMPUTED BY: Zinner DATE: 03-06-2000
CHECKED BY: LAGGED DATE: 63-15-00

#### 3. Attenuation Volume

See alternate pond P1A calculations for the methodology used for estimating the pre- and post-development volume of runoff.

See attached calculations for composite CN numbers, runoff volumes and the table below for a summary of results:

Rainfall Distribution, Event - Duration	Pre-development Runoff Volume (ac-ft)	Post-development Runoff Volume (ac-ft)	Volume Difference (ac-ft)
FDOT 100 year - 8 hour	11.71	17.09	5.38
Florida Modified Type II 25 year - 24 hour	9.35	14.32	4.97

Required Attenuation Volume = 5.38 ac-ft

## 4. Total Pond Volume Required

The total stormwater treatment and attenuation volume: 2.42 + 5.38 = 7.80 ac-ft.

## Total Pond Volume Required = 7.80 ac-ft

## 5. Pond Configuration

See attached stage storage output for the pond configuration shown on maps in the Appendix.

Pond P-3C will accommodate the Total Pond Volume Required.

The TOB of the proposed pond will have to be raised above the existing average grade approximately 1 foot.

<del></del>		
JOB: SR 39, ALEXANDER ST. BYPASS	SHEET of	PROJ. NO. C100003240.19
DESCRIPTION: Runoff volume calc.s	COMPUTED BY Jim Zinner	DATE 03-06-2000
for alt. pond P3C volume analysis	CHECKED BY KOG-	DATE 03-15-00

FDOT 100 Year Storm

	Rainfall
Duration	Depth
(hr)	(in)
8	9.2

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P3C EXIST 1	60	4.26	20.38	7.23	P3C PROP 1	80	6.76	23.23	13.08	
P3C EXIST 2	84	7.25	2.85	1.72	P3C PROP 2	93	8.35	5.75	4.00	
P3C EXIST 3	72	5.76	5.74	2.76						
Total	······································		28.97	11.71	Total			28.98	17.09	5.38

SWFWMD 25 Year Storm

	25 year	
Curve Type	Duration	Rainfall Amount (in)
NRCS (SCS) Type II Florida Modified	24 hr	8

The rainfall amount for the Type II Florida Modified Rainfall was taken from the SWFWMD ERP Manual (1999).

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P3C EXIST 1	60	3.33	20.38	5.66	P3C PROP 1	80	5.63	23.23	10.89	
P3C EXIST 2	84	6.10	2.85	1.45	P3C PROP 2	93	7.16	5.75	3.43	
P3C EXIST 3	72	4.69	5.74	2.25						
Total			28.97	9.35	Total			28.98	14.32	4.97

JOB: SR39 / ALEXANDER ST. BYPASS

DESCRIPTION: IV. Basin 4 Description

SHEET\_OF\_ PROJ. NO. C100003240.19 COMPUTED BY: Zinner DATE: 03-06-2000

CHECKED BY: KAG DATE: 03-15-00

From station 57+50 to 68+00, Length = 1050 m = 3444 ft

R/W width from Cason Street to S.R. 39 (Station 61+00) = 222 ft

R/W width from Station 61+00 to 64+50 = 209 ft

R/W width from 64+50 to 68+00 m = 196 ft

R/W area =  $1148 \times 222 = 5.85$  ac = 2.37 ha

R/W area =  $1149 \times 209 = 5.51$  ac = 2.23 ha

R/W area =  $1149 \times 196 = 5.61$  ac = 2.27 ha

Total area = 16.52 ac = 6.69 ha

#### A. Treatment Area

There is not an existing roadway from station 57+50 to 64+50, therefore the treatment volume is the entire contributing drainage area per SWFWMD criteria. There is existing roadway from 64+50 to 68+00, therefore the treatment volume is the DCIA for that segment of the roadway.

Type of Treatment: with high ground water in the pond area percolation will not be a mode of discharge. Therefore we will assume the type of stormwater treatment will be wet detention. According to SWFWMD criteria the required treatment volume for wet detention will be 1" of runoff from the applicable treatment areas.

Proposed new roadway from 57+50 to 64+50 Length = 700 m = 2,297' Right-of-way = 222' Area: 2,297 x 222 = 11.71 ac

Proposed roadway widening from 64+50 to 68+00Length = 350 m = 1,149' Total pavement & Shoulder width:  $6 \times 12' + 2 \times 5' = 82'$ Area:  $1.149 \times 82 = 2.16$  ac

Total Treatment Area = 11.71 + 2.16 = 13.87 ac

JOB: SR39 / ALEXANDER ST. BYPASS
DESCRIPTION: B. Alternate Pond Site P-4A

SHEET\_OF\_\_ PROJ. NO. C100003240.19
COMPUTED BY: Zinner DATE: 03-06-2000
CHECKED BY: KAG DATE: 03-15-00

## 1. Pond Site Conditions

Location: Station 64 + 50 left

Existing grade elevation of site: the average grade is approximately 104.5.

Existing Soils Types: predominantly Myakka and Malabar soils

Existing Seasonal High Water Table (SHWT) of pond site:

The following data is available:

Source	Estimated SHWT Elevation (ft, NGVD)
Soils Survey states the depth to SHWT for Myakka and Malabar soils is 0.0' to 1.0'	103.5 to 104.5
SHWT determination by Mark Brown of FDOT at approximately station 61+00	104.0

## The SHWT is estimated to be 104.0

Maximum Design High Water (DHW) at pond site: The calculated shoulder elevation at the sump will be at elevation 107.6.

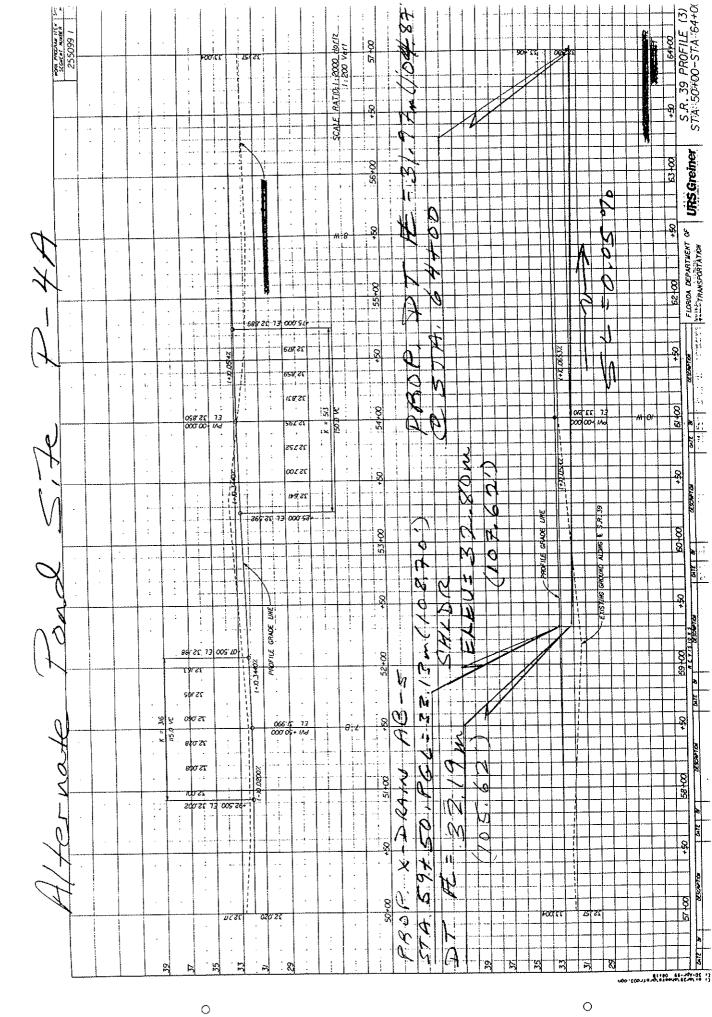
Minimum Flow Line elevation: See the attached ditch profile for alternate pond site P-3A analaysis. It shows that the proposed ditch will positively convey onsite runoff from one side of the proposed cross drain, which is usually the outfall, to the pond inlet.

#### 2. Treatment Volume:

Total Treatment Area = 13.87 ac (see Treatment Area calculations).

Treatment Volume = Total Treatment Area (ac) \* ( 1"/ 12"/' ) = 13.87 \* ( 1/ 12 ) = 1.16 ac-ft

Required Treatment Volume = 1.16 ac-ft



<del>-</del>		
JOB: SR 39, ALEXANDER ST. BYPASS	SHEET of	PROJ. NO. C100003240.19
DESCRIPTION: Runoff volume calc.s	COMPUTED BY Jim Zinner	DATE 03-06-2000
for alt. pond P4A volume analysis	CHECKED BY KAG	DATE 03-15-00

FDOT 100 Year Storm

	Rainfall
Duration	Depth
(hr)	(in)
8	9.2

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P4A EXIST 1	82	7.01	16.52	9.64	P4A PROP 1	89	7.87	16.52	10.83	
P4A EXIST 2	80	6.76	3.30	1.86	P4A PROP 2	89	7.87	3.30	2.16	
Total			19.82	11.50	Total			19.82	12.99	1.49

SWFWMD 25 Year Storm

	25 year	
Curve Type	Duration	Rainfall Amount (in)
NRCS (SCS) Type II Florida Modified	24 hr	8

The rainfall amount for the Type II Florida Modified Rainfall was taken from the SWFWMD ERP Manual (1999).

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P4A EXIST 1	82	5.86	16.52	8.07	P4A PROP 1	89	6.69	16.52	9.21	
P4A EXIST 2	80	5.63	3.30	1.55	P4A PROP 2	89	6.69	3.30	1.84	
Total			19.82	9.61	Total			19.82	11.04	1.43

JOB: SR39 / ALEXANDER ST. BYPASS

DESCRIPTION: C. Alternate Pond Site P-4B

COMPUTED BY: Zinner DATE: 03-06-2000 CHECKED BY: KAGE DATE: 03-15-05

#### 1. Pond Site Conditions

Location: Station 63 + 50 left

Existing grade elevation of site: the average grade is approximately 105.0.

Existing Soils Types: predominantly Myakka and Malabar soils

Existing Seasonal High Water Table (SHWT) of pond site:

The following data is available:

Source	Estimated SHWT Elevation (ft, NGVD)
Soils Survey states the depth to SHWT for Myakka and Malabar soils is 0.0' to1.0'	104.0 to 105 .0
SHWT determination by Mark Brown of FDOT at approximately station 61+00	104.0

## The SHWT is estimated to be 104.0

Maximum Design High Water (DHW) at pond site: The calculated shoulder elevation at the sump will be at elevation 107.6.

Minimum Flow Line elevation: See the profile for alternate pond site P-4A analaysis. It shows that the proposed ditch will positively convey onsite runoff from one side of the proposed cross drain, which is usually the outfall, to the pond inlet.

#### 2. Treatment Volume

Total Treatment Area = 13.87 ac (see Treatment Area calculations).

Treatment Volume = Total Treatment Area (ac) \* ( 1"/ 12"/' ) = 13.87 \* ( 1/ 12 ) = 1.16 ac-ft

Required Treatment Volume = 1.16 ac-ft

Project: S.R. 39, Alexander Street Bypass Pond Siting Report

Subject: Existing Conditions Curve Number Calculations for Pond Alternate P4B

Computed By: Zinner Date: 03-06-2000

Sheet

Project No.: C100003240.19

Basin Name

Composite 3 8 82 Checked By: KPL Date: 03-15-0-S Pasture 꿈 CN = ((Ha)i(CN)i + (Ha)i+1(CN)i+1 + (Ha)i+2(CN)i+2 +......(Ha)n-1(CN)n-1 + (Ha)n(CN)n)) / Total Area Land Use Row Crops Ha CN S 80 3 Woods 1.072 1.800 Ξ Pervious Area Open Space 8 S 65 3.900 0.304 ř Hydrologic Group Ω ۵ Ω Soils Symbol / Name Myakka, #29, Maibar, #27 Myakka, #29 Candler, #7 86 S 86 Roofs Impervious Area Ϋ́ Land Use S ဗ္တ 86 Pavement Ή 0.683 19.16 16.52 2.65 Total Area Ac 7.759 1.072 Total Area 6.687 Ë

Total

exist. pond site)

P4B EXIST2

P4B EXIST1 (exist. r/w)

Composite S 8 88 S 뿟 (Ha)n-1(CN)n-1 + (Ha)n(CN)n)) / Total Area (5) Row crops assumed to be in Good condition S Land Use Нa S Woods Ħ Pervious Area Open Space 3 49 74 8 0.198 0.449 표 3.68 Hydrologic CN = ((Ha)i(CN)i + (Ha)i+1(CN)i+1 + (Ha)i+2(CN)i+2 +.... Group ۵  $\Box$ Symbol / Name used average CN for open space for pond berms Subject: Proposed Conditions Curve Number Calculations for Alternate Pond Site P4B Myakka, #29 Candler, #7 98 86 Ö Water 0.619 Impervious Area На lo Land Use S 8 98 Pavement 표 2.81 19.16 16.52 Area Total 2.64 Š Ha 6.688 1.068 7.756 Total Area Total P4B PROP2 P4B PROP1 (prop. pond) (prop. R/W) Basin Name

(1) Soil Names, Symbols and Hydrologic Soil Group were obtained from USDA Soil Conservation Service Soil Survey of Hillsborogh Counly, Florida. NOTES:

(2) Runoff curve numbers for land use type were obtained from Table 2-2a Runoff curve numbers for Urban Areas & Table 2-2c Runoff Curve Numbers for Agricultural Lands in USDA Soil Conservation Service Urban Hydrology for Small Watersheds, (TR55 Manual).

(3) Open Spaces assumed to be in Fair condition (grass cover 50% to 75%).

(4) Woods assumed to be in Good condition (woods are protected from grazing, and itter and brush adequately cover the soil).

(6) Open spaces assumed to be in Good condition (grass cover 50 to 75%)

(7) Woods-Grass assumed to be in Good condition.

(8) Areas obtained from PD&E photobase plans produced by URS Greiner.

JOB: SR 39, ALEXANDER ST. BYPASS	SHEET	of	PROJ. NO. C100003240.19
DESCRIPTION: Pond Stage Storage Calculation	COMPUTED BY	Jim Zinner	DATE 03-06-2000
for alternate pond P4B volume analysis	CHECKED BY	KAR	DATE 03 - 15.00

STAGE - STORAGE CALCULATIONS (English Units)

INPUT:

ï	1.67	ac	VARIABLES:	A = Area at Top of Basin
	1476			P = Perimeter at Top of Basin
İ		ft h / 1 ft v		S = Avg. Side Slope of Basin
	0.25			H = Incremental Stage of Basin
		ft, elevation		E1 = Elevation at the Top of Basin
		ft, elevation		E2 = Elevation at Lower Depth of Basin

FORMULAE:

n = (E1 - E2)/H

VARIABLES:

n = Number of Incremental Stages

An = (An - 1) - (Pn - 1SH)

An = Incremental Area

Vn = (An - (An - 1))/2H

Vn = Incremental Volume

OUTPUT:

		L Otanama	Valuma	<del></del> 1
Stage El.	Inc. Area	Inc. Storage	Volume	
(ft, elev.)	(ac)	(ac-ft)	(ac-ft)	
104.00	1.26	0.00	0.00	SHWT ELEV.
104.25	1.30	0.32	0.32	
104.50	1.33	0.33	0.65	
104.75	1.37	0.34	0.99	
105.00	1.40	0.35	1.33	TREATMENT VOLUME
105.25	1.43	0.35	1.69	
105.50	1.47	0.36	2.05	
105.75	1.50	0.37	2.42	
106.00	1.53	0.38	2.80	DHW ELEV.
106.25	1.57	0.39	3.19	
106.50	1.60	0.40	3.58	
106.75	1.64	0.40	3.99	
107.00	1.67	0.41	4.40	TOB ELEV.
107.25	1.70	0.42	4.82	
107.50	1.74	0.43	5.25	SHOULDER ELEV. @ SUMP

JOB: SR39 / ALEXANDER ST. BYPASS
DESCRIPTION: D. Alternate Pond Site P-4C
(continued)

SHEET\_OF\_ PROJ. NO. C100003240.19
COMPUTED BY: Zinner DATE: 03-06-2000
CHECKED BY: KDC- DATE: 03-05-00

#### 3. Attenuation Volume

Rainfall Distribution, Event - Duration	Pre-development Runoff Volume (ac-ft)	Post-development Runoff Volume (ac-ft)	Volume Difference (ac-ft)
FDOT 100 year - 8 hour	11.42	12.90	1.48
Florida Modified Type II 25 year - 24 hour	9.55	10.97	1.42

Required Attenuation Volume = 1.48 ac-ft

### 4. Total Pond Volume Required

The total stormwater treatment and attenuation volume: 1.16 + 1.48 = 2.64 ac-ft.

Total Pond Volume Required = 2.64 ac-ft

## 5. Pond Configuration

See attached stage storage output for the pond configuration shown on maps in the Appendix.

Pond P-4C will accommodate the Total Pond Volume Required.

The TOB of the proposed pond will have to be raised above the existing average grade approximately 2.5 feet.

JOB: SR 39, ALEXANDER ST. BYPASS	SHEET	of	PROJ. NO. C100003240.19
	COMPUTED BY	Jim Zinner	DATE 03-06-2000
for alt. pond P4C volume analysis	CHECKED BY	KAG	DATE 03-15-00

FDOT 100 Year Storm

	Rainfall
Duration	Depth
(hr)	(in)
8	9.2

Basin Name	Pre CN	Pre Qr	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P4C EXIST 1	82	7.01	16.52	9.64	P4C PROP 1	89	7.87	16.52	10.83	
P4C EXIST 2	80	6.76	3.16	1.78	P4C PROP 2	89	7.87	3.16	2.07	
Total	·····		19.68	11.42	Total			19.68	12.90	1.48

SWFWMD 25 Year Storm

	25 year	
Curve Type	Duration	Rainfall Amount (in)
NRCS (SCS) Type II Florida Modified	24 hr	8

The rainfall amount for the Type II Florida Modified Rainfall was taken from the SWFWMD ERP Manual (1999).

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Post Qr Volume (ac-ft)	Post-Pre Volume (ac-ft)
P4C EXIST 1	82	5.86	16.52	8.07	P4C PROP 1	89	6.69	16.52	9.21	
P4C EXIST 2	80	5.63	3.16	1.48	P4C PROP 2	89	6.69	3.16	1.76	
Total			19.68	9.55	Total			19.68	10.97	1.42

JOB: SR39 / ALEXANDER ST. BYPASS
DESCRIPTION: V. Basin 5 Description

SHEET\_OF\_\_ PROJ. NO. <u>C100003240.19</u> COMPUTED BY: Zinner DATE: 03-06-2000

CHECKED BY: KAG- DATE: 03-15-00

From station 68+00 to 73+40

Length = 540 m = 1772 ft

Proposed R/W width = 196 ft

R/W area =  $1772 \times 196 = 7.97$  ac

#### A. Treatment Area

There is existing roadway from 68+00 to 73+40, therefore the treatment volume is the existing and proposed pavement (DCIA) for that segment of the roadway.

Proposed roadway widening from 68+00 to 73+40

Length = 540 m = 1,772'

Total pavement & shoulder width: 6 x 12' + 2 x 5' = 82'

Area: 1,772' x 82' = 3.34 ac

JOB: SR39 / ALEXANDER ST. BYPASS

DESCRIPTION: B. Alternate Pond Site P-5A

SHEET\_OF\_\_ PROJ. NO. <u>C100003240.19</u>

5A COMPUTED BY: Zinner DATE: 03-06-2000

CHECKED BY: <u>KAG</u> DATE: <u>03 15-00</u>

### 1. Pond Site Conditions

Location: Station 53 + 50 right

Existing grade elevation of site: the average grade is approximately 107.0.

Existing Soils Types: predominantly Candler soils

Existing Seasonal High Water Table (SHWT) of pond site:

The following data is available:

Source	Estimated SHWT Elevation (ft, NGVD)
Soils Survey states the depth to Candler soils is > 6.0'	101.0
SHWT determination by Mark Brown of FDOT at approximately station 67+	105.4
SHWT determination by Mark Brown of FDOT at approximately station 71+50	101.49

The SHWT is estimated to be 103.5

#### 2. Treatment Volume

Type of Treatment: assume wet detention, therefore1" of runoff from the DCIA.

Treatment Volume = Total Treatment Area (ac) \* ( 1"/ 12"/' ) = 3.34 \* ( 1/ 12 ) = 0.28 ac-ft

Required Treatment Volume = 0.28 ac-ft

Project: S.R. 39, Alexander Street Bypass Pond Siting Report

Computed By: Zinner Date: 03-06-2000 Checked By: KAG Date: Of .. r-Op

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Sheet

Subject: Existing Conditions Curve Number Calculations for Pond Alternate P5A

Project No.: C100003240.19

Composite 2 74 12 5 Pasture 뿣 (Hala/CN)n-1 + (Hala/CN)n)) / Total Area ..(Ha)n-1(CN)n-1 + (Ha)n(CN)n)) / Total Area S Row Crops Land Use 운 70 S 30 Woods 0.298 0.250 콮 Pervious Area Open Space 공 74 98 1.927 1.200 盎 Hydrologic Group ပ Ç ⋖ CN = ((Ha)i(CN)i + (Ha)i+1(CN)i+1 + (Ha)i+2(CN)i+2 Soils Symbol / Name Subject: Proposed Conditions Curve Number Calculations for Alternate Pond Site P5A Seffner, #47 Seffner, #47 Candler, #7 88 98 S Roofs Impervious Area 꽃 Land Use CN 88 98 Pavement Ha 0.752 10.93 Total Area 2.96 79.7 Ac 1.200 4.427 Total Area 3.227 뿟 Total P5A EXIST2 P5A EXIST1 (exist. pond (exist. R/W) Basin Name area)

							$CN = ((Ha)i(CN)i + (Ha)i+1(CN)i+1 + (Ha)i+2(CN)i+2 + \dots (Ha)i+1(CN)i+1 + (Ha)i+1(CN)i+1 + (Ha)i+2(CN)i+1 CN)i+1 + (Ha)i+2(CN)i+2($	a)i+2(CN)i+2 +		(Ha)n	-u(SS)	(BH) +		2012	200		
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0000	Aroa	Δ:03		l and Use	Use		Soils					רמ	260 DI				
	3	3			14/04		Symbol / Name	Hydrologic   Open Space	Open S	pace	Woods						
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	í	۷	r I	NO	Ha	CN		Group	π	5	Га	3	Пa	5	- 10	5	
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PSA PROP2	1.130	2.30		3	25.5	3											
(prop. pond)										1		+		†			
Total 4423	4 423	10.93															
כומו	7-1-1	>					The state of the s				and the second sesumed to be in Group condition	ominate or	d to be in G	Spoot coods	lion		

NOTES: (1) Soil Names, Symbols and Hydrologic Soil Group were obtained from USDA Soil Conservation Service Soil Survey of Hillsborogh County, Florida.

(2) Runoff curve numbers for land use type were obtained from Table 2-2a Runoff curve numbers for Urban Areas & Table 2-2c Runoff Curve Numbers for Agricultural Lands in USDA Soil Conservation Service Urban Hydrology for Small Watersheds, (TRS5 Manual):

(3) Open Spaces assumed to be in Fair condition (grass cover 50% to 75%).

(4) Woods assumed to be in Good condition (woods are protected from grazing, and litter and brush adequately cover the soil).

Row crops assumed to be in Good condition

(6) Open spaces assumed to be in Good condition (grass cover  $50\ \text{lo}\ 75\%$ )

(7) Woods-Grass assumed to be in Good condition.

(8) Areas obtained from PD&E photobase plans produced by URS Greiner.

JOB: SR 39, ALEXANDER ST. BYPASS	SHEET	of	PROJ. NO. C100003240.19
DESCRIPTION: Pond Stage Storage Calculations	COMPUTED BY Ji	m Zinner	DATE 03-06-2000
for alternate pond P5A volume analysis	CHECKED BY	KAG	DATE 03-15-00

STAGE - STORAGE CALCULATIONS (English Units)

INPUT:

٦	0.9 ac	VARIABLES:	A = Area at Top of Basin P = Perimeter at Top of Basin	
Ì	650 ft			
Ì	4 ft h / 1 ft v		S = Avg. Side Slope of Basin	
ŀ	0.25 ft		H = Incremental Stage of Basin	
ł	106.5 ft, elevation		E1 = Elevation at the Top of Basin	
	103.5 ft, elevation		E2 = Elevation at Lower Depth of Basin	

FORMULAE: n = (E1 - E2)/H

An = (An - 1) - (Pn - 1SH)

Vn = (An - (An - 1))/2H

VARIABLES:

n = Number of Incremental Stages

An = Incremental Area Vn = Incremental Volume

OUTPUT:

*****	Volume	Inc. Storage	Inc. Area	Stage El.
	(ac-ft)	(ac-ft)	(ac)	(ft, elev.)
SHWT ELEV.	0.00	0.00	0.72	103.50
	0.18	0.18	0.74	103.75
TREATMENT VOLUME	0.37	0.19	0.75	104.00
	0.56	0.19	0.77	104.25
	0.75	0.19	0.78	104.50
	0.95	0.20	0.80	104.75
	1.15	0.20	0.81	105.00
	1.35	0.20	0.83	105.25
	1.56	0.21	0.84	105.50
DHW ELEV.	1.77	0.21	0.86	105.75
	1.99	0.22	0.87	106.00
	2.21	0.22	0.89	106.25
	2.43	0.22	0.90	106.50
	2.66	0.23	0.91	106.75
TOB & SHLDR ELEV. @ SUMF	2.89	0.23	0.93	107.00

JOB: SR39 / ALEXANDER ST. BYPASS SHEET\_OF\_ PROJ. NO. C100003240.19
DESCRIPTION: C. Alternate Pond Site P-5B
(continued) SHEET\_OF\_ PROJ. NO. C100003240.19
COMPUTED BY: Zinner DATE: 03-06-2000
CHECKED BY: KDG DATE: 63-15-100

#### 3. Attenuation Volume

See attached calculations for composite CN numbers, runoff volumes and the table below for a summary of results:

Rainfall Distribution, Event - Duration	Pre-development Runoff Volume (ac-ft)	Post-development Runoff Volume (ac-ft)	Volume Difference (ac-ft)
FDOT 100 year - 8 hour	5.31	6.65	1.34
Florida Modified Type II 25 year - 24 hour	4.33	5.60	1.27

Required Attenuation Volume = 1.34 ac-ft

### 4. Total Pond Volume Required

The total stormwater treatment and attenuation volume: 0.28 + 1.34 = 1.62 ac-ft.

## Total Pond Volume Required = 1.62 ac-ft

## 5. Pond Configuration

See attached stage storage output for the pond configuration shown on maps in the Appendix.

Pond P-5B will accommodate the Total Pond Volume Required.

The TOB of the proposed pond will have to be raised above the existing average grade approximately 3.25 feet.

JOB: SR 39, ALEXANDER ST. BYPASS	SHEET	of	PROJ. NO. C100003240.19
DESCRIPTION: Runoff volume calc.s	COMPUTED BY	Jim Zinner	DATE 03-06-2000
for alt. pond P5B volume analysis	CHECKED BY	FAG-	DATE 03-15-00

FDOT 100 Year Storm

	Rainfall
Duration	Depth
(hr)	(in)
8	9.2

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Volume (ac-ft)	Post-Pre Volume (ac-ft)
P5B EXIST 1	72	5.76	7.97	3.83	P5B PROP 1	82	7.01	7.97	4.65	
P5B EXIST 2	74	6.01	2.96	1.48	P5B PROP 2	91	8.11	2.96	2.00	
Total	7-3	0.01	10.93	5.31	Total			10.93	6.65	1.34

SWFWMD 25 Year Storm

	25 year	
Curve Type	Duration	Rainfall Amount (in)
NRCS (SCS) Type II Florida Modified	24 hr	8

The rainfall amount for the Type II Florida Modified Rainfall was taken from the SWFWMD ERP Manual (1999).

Basin Name	Pre CN	Pre Qr (in)	Area (ac)	Pre Qr Volume (ac-ft)	Basin Name	Post CN	Post Qr (in)	Area (ac)	Volume (ac-ft)	Post-Pre Volume (ac-ft)
P5B EXIST 1	72	4.69	7.97	3.12	P5B PROP 1	82	5.86	7.97	3.89	
P5B EXIST 2	74	4.93	2.96	1.22	P5B PROP 2	91	6.92	2.96	1.71	
Total	,	1.00	10.93	4.33	Total			10.93	5.60	1.27

JOB: SR39 / ALEXANDER ST. BYPASS

DESCRIPTION: D. Alternate Pond Site P-5C

SHEET\_OF\_\_ PROJ. NO. <u>C100003240.19</u> COMPUTED BY: Zinner DATE: 03-06-2000 CHECKED BY: KAG DATE: 63-15-00

### 1. Pond Site Conditions

Location: Station 53 + 50 right

Existing grade elevation of site: the average grade is approximately 102.5

Existing Soils Types: predominantly St. Johns soils

Existing Seasonal High Water Table (SHWT) of pond site:

Source	Estimated SHWT Elevation (ft, NGVD)
Soils Survey states the depth to St. Johns soils is 0.0' to 1.0'	101.5 to 102.50
SHWT determination by Mark Brown of FDOT at approximately station 71+50	101.49

### The SHWT is estimated to be 102.0

### 2. Treatment Volume

Treatment Volume = Total Treatment Area (ac) \* ( 1"/ 12"/' ) = 3.34 \* ( 1/ 12 ) = 0.28 ac-ft

Required Treatment Volume = 0.28 ac-ft

#### 3. Attenuation Volume

See the table below for a summary of results:

Rainfall Distribution, Event - Duration	Pre-development Runoff Volume (ac-ft)	Post-development Runoff Volume (ac-ft)	Volume Difference (ac-ft)
FDOT 100 year - 8 hour	5.15	6.19	1.04
Florida Modified Type II 25 year - 24 hour	4.22	5.20	0.98

Required Attenuation Volume = 1.04 ac-ft

Project: S.R. 39, Alexander Street Bypass Pond Siting Report

Subject: Existing Conditions Curve Number Calculations for Pond Alternate P5C

Computed By: Zinner Date: 03-06-2000 Date: **63 - (5 - 00** Checked By: KAK ö Sheet

Composite

S S

2

Pasture

8

뿐 (Ha)n-1(CN)n-1 + (Ha)n(CN)n)) / Total Area 5 Row Crops Ha CN Land Use 70 3 ဗ္က Woods 0.250 0.298 뭐 Pervious Area Open Space 동 80 88 1.927 0.951 На Hydrologic Group ۵ ۷ ک CN = ((Ha)i(CN)i + (Ha)i+1(CN)i+1 + (Ha)i+2(CN)i+2 Soils Symbol / Name St. Johns, #46 Seffner, #47 Candler, #7 S 8 86 Roofs Impervious Area 꺔 Land Use S 89 8 Pavement 0.752 Ξ 10.32 2.35 Area Total Ac 7.97 Project No.: C100003240.19 4.178 Total Area 0.951 3.227 표 Total offsite church) P5C EXIST2 P5C EXIST1 (exist. pond (exist. R/W) area and Basin Name

<u> </u>		40.0		_												
Subject: Proposed Conditions Curve Number Calculations for Alternate Pond Site	sed Conditi	ions Curve	Number	Calcuit	ations for	Alterna	ate Pond Site P5C									
Subject. 1 John	ace contain						CN = //H=)i-1/(CN)i+1 (H=)i+1/(CN)i+1 + (H=)i+2/(CN)i+2 +(H=)in-1/(CN)n-1 + (H=)in(CN)n)} / Total Area	2(CN)i+2 +		(Ha)n-1	(CN)n-1	+ (Ha)n(C)	)))/ Tot	al Area		
						ار										Composite
	Total	Total	۲	nnervio	Impervious Area				Pervious Area	Area						2
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Name	Area	Area		Land Use	Ose		SIDO			ŀ		۱				
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	21			30		~ ~	C +	A	0.834	89	0.250	30				87
P5C PROP1	3.227	7.97	1.845	×	>	S	Caliquei, #1			1	Т	1				
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P5C PROP2	0.951	2.35		88	0.0	န္တ	St. 30iiils, #40	)								
(prop. pond)										+	Ì	+	1	_		
	ļ	30,									••••					
iota	Total 4.178 10.32	10.32					Carry Control of the					or or	o pood oi o	condition		

NOTES: (1) Soil Names, Symbols and Hydrologic Soil Group were obtained from USDA Soil Conservation Service Soil Survey of Hillsborogh County, Florida.

(2) Runoff curve numbers for land use type were obtained from Table 2-2a Runoff curve numbers for Urban Areas & Table 2-2c Runoff Curve Numbers

for Agricultural Lands in USDA Soil Conservation Service Urban Hydrology for Small Watersheds, (TRS5 Manual).

(3) Open Spaces assumed to be in Fair condition (grass cover 50% to 75%).

(4) Woods assumed to be in Good condition (woods are protected from grazing, and litter and brush adequately cover the soil).

Row crops assumed to be in Good condition

(6) Open spaces assumed to be in Good condition (grass cover 50 to 75%)

(7) Woods-Grass assumed to be in Good condition.

(8) Areas obtained from PD&E photobase plans produced by URS Greiner.

JOB: SR 39, ALEXANDER ST. BYPASS	SHEET	~.		NO. C100003240.19
DESCRIPTION: Pond Stage Storage Calculations	COMPUTED BY	Jim Zinner	DATE	03-06-2000
for alternate pond P5C volume analysis	CHECKED BY	K46	DATE	07-15.00

STAGE - STORAGE CALCULATIONS (English Units)

INPUT:

1.2 ac		VARIABLES:	A = Area at Top of Basin
932 ft	•		P = Perimeter at Top of Basin
	h/1ftv		S = Avg. Side Slope of Basin
0.25 ft			H = Incremental Stage of Basin
104.5 ft.	elevation		E1 = Elevation at the Top of Basin
	elevation		E2 = Elevation at Lower Depth of Basin

FORMULAE:

n = (E1 - E2)/H

An = (An - 1) - (Pn - 1SH)Vn = (An - (An - 1))/2H

VARIABLES: n = Number of Incremental Stages

An = Incremental Area Vn = Incremental Volume

OUTPUT:

Γ	Stage El.	Inc. Area	Inc. Storage	Volume	
1	(ft, elev.)	(ac)	(ac-ft)	(ac-ft)	
i	102.00	0.99	0.00	0.00	SHWT ELEV.
	102.25	1.01	0.25	0.25	
	102.50	1.03	0.25	0.50	TREATMENT VOLUME
	102.75	1.05	0.26	0.76	
	103.00	1.07	0.27	1.03	
	103.25	1.09	0.27	1.30	
	103.50	1.11	0.28	1.58	DHW ELEV.
	103.75	1.14	0.28	1.86	
	104.00	1.16	0.29	2.14	
	104.25	1.18	0.29	2.44	
	104.50	1.20	0.30	2.73	TOB & SHLDR ELEV. @ SUMP

## **URS Greiner Woodward Clyde**

A Division of URS Corporation

7650 West Courtney Campbell Causes Tampa, Ft 33607-1462 Tel: 813.286 1711

JOB 50 39 Alexanler S	1. Bypass	SHEET	OF	PROJ.	NO.	
DESCRIPTION	<b>)\</b>	COMPUTED	BY	NES	DATE	6/23/99
Floodplain Encload	nnert	CHECKED	BY		DATE	1 1

5N 39 - Alexander St. Bypass (ALB)

- · Estimate area of floodplain encroachment for New ALB
- · Whize absorbert on aexials all FEMA Firm Maps
  · FEMA maps show Zone A No elevations
  · Use Com Westside canal study

  Moodplain Encroncherent May 1

· Sh 23+50 to St 28+25 = 475 m : 1558 F

- SHW et estimated at 106.0 f.
- · 100 M Ploud elevation estimated at 101.4 feet (from com study)
- = 2.0.W wilth = 268' (8' For whater litch) = 260 F
- · Encroachment Volume = (1558 F+260F) x (107.4 F-106.0 F) = (405,080 F2) × 1.4 F = 567, 112 F3 (13.0 Ac A)

Floodplain Encouchment Avay 2

- · 5h 31+25 to 33+50 = 225 m 738 fr
- · SHW elv. estimated at 104.0 · 100411 Ploud Elivation estimated at 101.3ff (from CPM study)
- ROW widt = 222'
- · Encroachment Volume · (738 & x 222 ft) x (104.3 ft 104.0 ft)

= (163,836 ft 2) x (03 ft) = 49,151 ft3 (1.1 Ac. ft)

## **URS Greiner Woodward Clyde**

A Division of URS Corporation

7650 West Courtney Campbell Causewiss Tampa, Ft 33607-1462 Tel: 813.286.1711

JOB 51 39 ALB	SHEET 3 OF PROJ. NO.
DESCRIPTION	COMPUTED BY DATE 6 23 69
Yoodplain (unperation	CHECKED BY DATE

· Hoodplain Compensation Volume Required 14.8 herfi

Floody lair Corpersation St.

- · Existy FOOT Parcel adjacent to Westsile Carel (x 8.0 Ac)
- SHW = 104. R
- · 1004/1 Et in Canal = 107.4
- · Existy yale Varies from 107 R to 109 A
- · Aug . 108 F
- = Depth avail = 107.4 to 104.4 F = 3.0 F
- 14.8 Ac & = 644,688 G3 = 3.0 R = 214,896 R2 = 4.9 Ac
- · Existy FDOT site could be used to accomplate floodplain compensation volume.

CONDEMNED

(Ind. SW)

See Final Judement, SRD No. 206

OR 127/41 - 6/10/56

- tip	. ,
RD NO. 293-Revised	ンスノ
ECTION 1017-201	
TATE BOAD 600	
Hillsborough COU	NTY

SPECIAL WARRANTY DEED

THIS INDENTURE made this day of A. D. 195 between Sem Rosenberg
as part of the first part and the STATE OF FLORIDA, for the use and benefit of the State Road Department of Florida, as party of the second part.
WITNESSETH, That the said part of the first part, for and in consideration of the sum of One Dollar and other valuable considerations, paid, receipt of which is hereby acknowledged, do hereby grant, bargain, sell, and convey unto the party of the second part, its successors and assigns, the following described land, situate, lying and being in the County of

BORROW PIT NO. 9

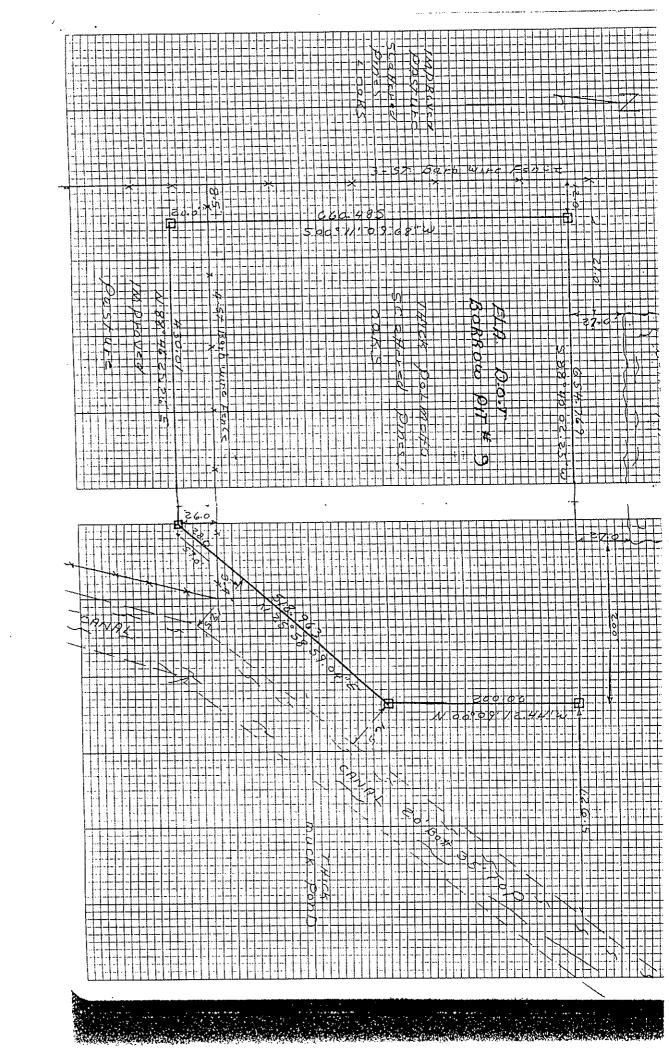
P.J.

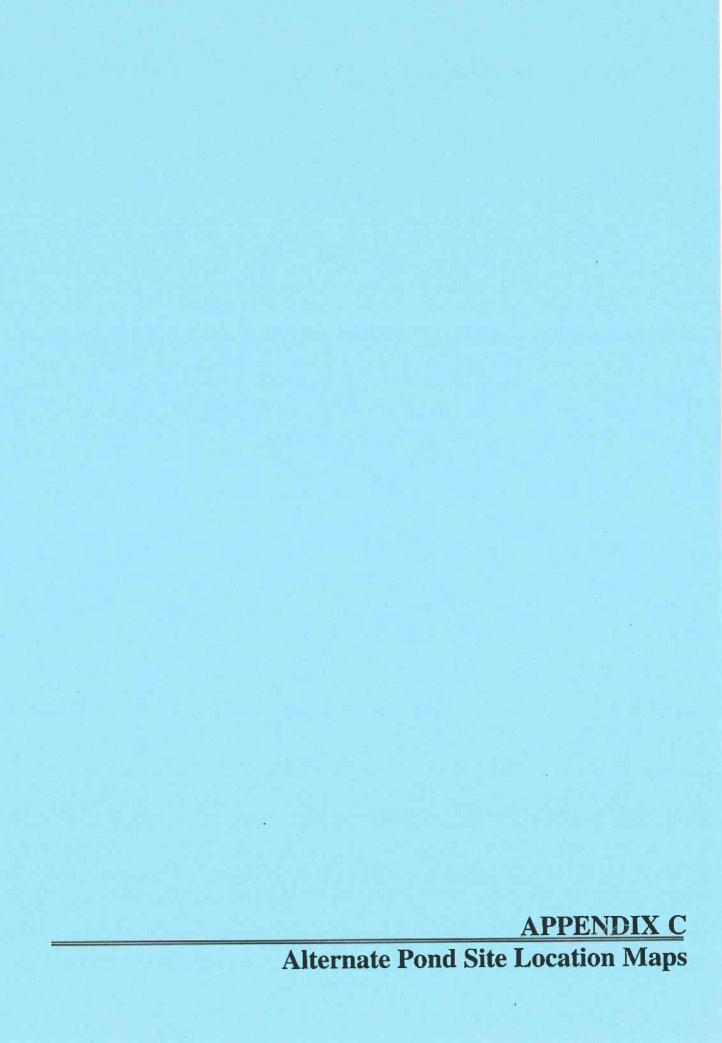
A parcel of land in the 62 of REL of Nel of Section 19, Township 28 South, Range 22 East, described as follows: Commence on the East boundary of Section 19, Township 28 South, Range 22 East, at a point 662.52 feet South from the Northeast corner thereof; run thence South 88°40'30" West 654.82 feet to the POINT OF EEGINNING; thence continue South 88°40'30" West 654.82 feet; thence South 00°10'30" West 660.77 feet; thence North 88°46' East 430.01 feet; thence North 25°59'57" East 518.93 feet; thence North 00°07'30" West 200 feet to the POINT OF EEGINHING; containing 8.756 acres, more or less.

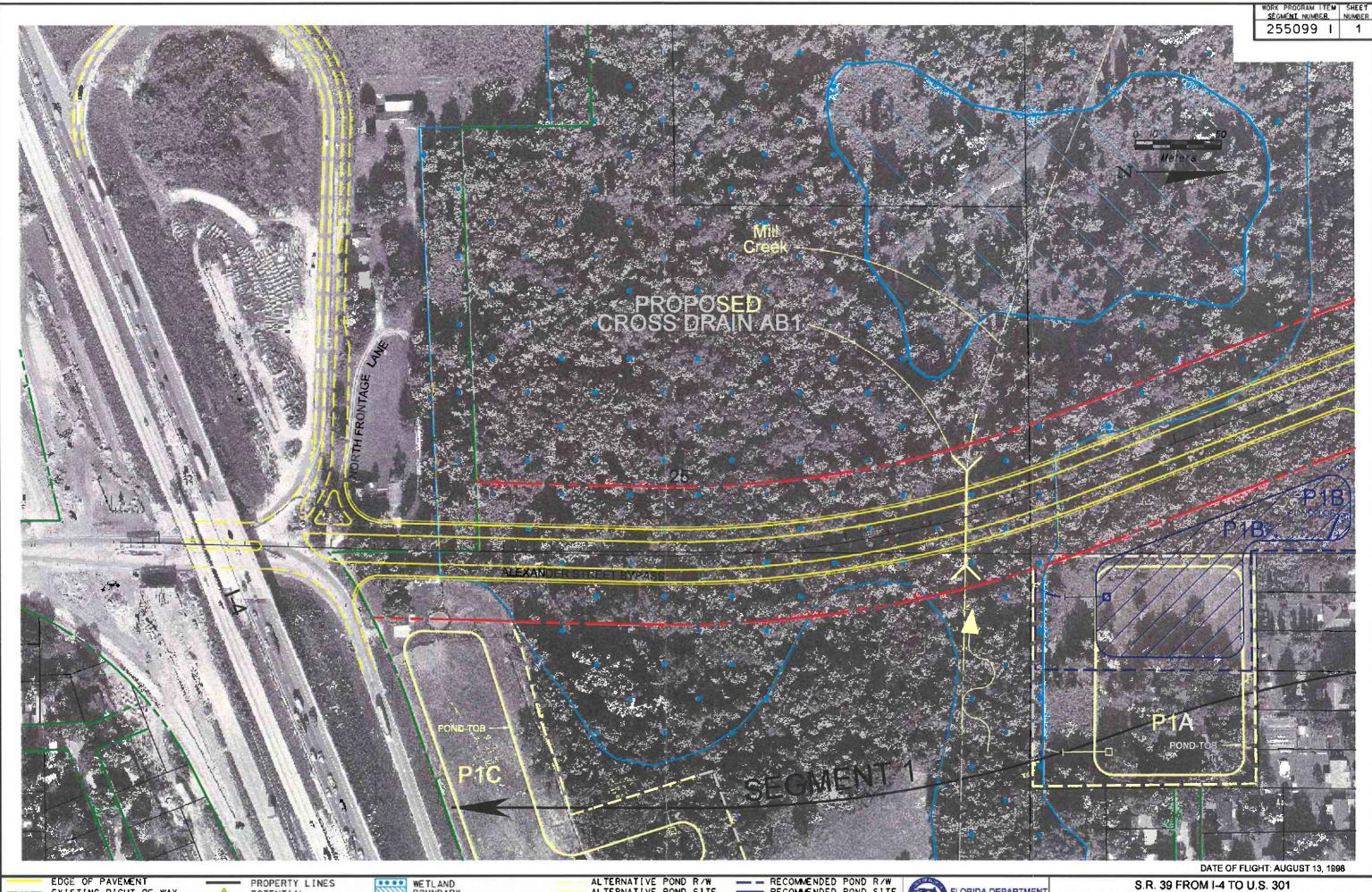
STATE ROAD CEPAREMENT OF FLORIDA-DIVISION OF RIGHTS OF WAY DESCRIPTION APPROVED JUN 20 1956 BY D. N. B.

FEB 28 1984

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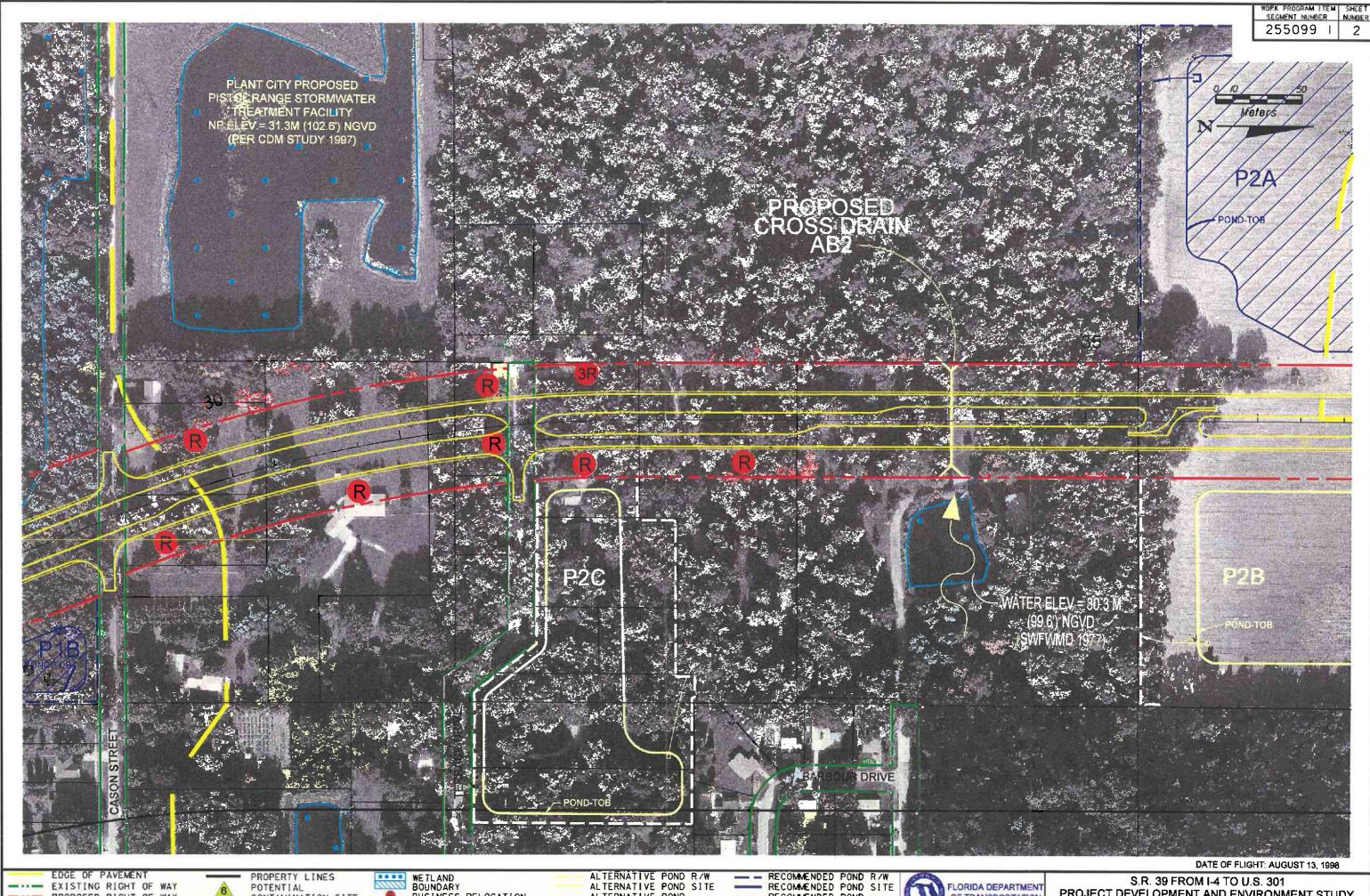
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RESIDENTIAL RELOCATION

ALTERNATIVE POND R/W ALTERNATIVE POND SITE ALTERNATIVE POND OUTFALL

RECOMMENDED POND R/W
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OUTFALL





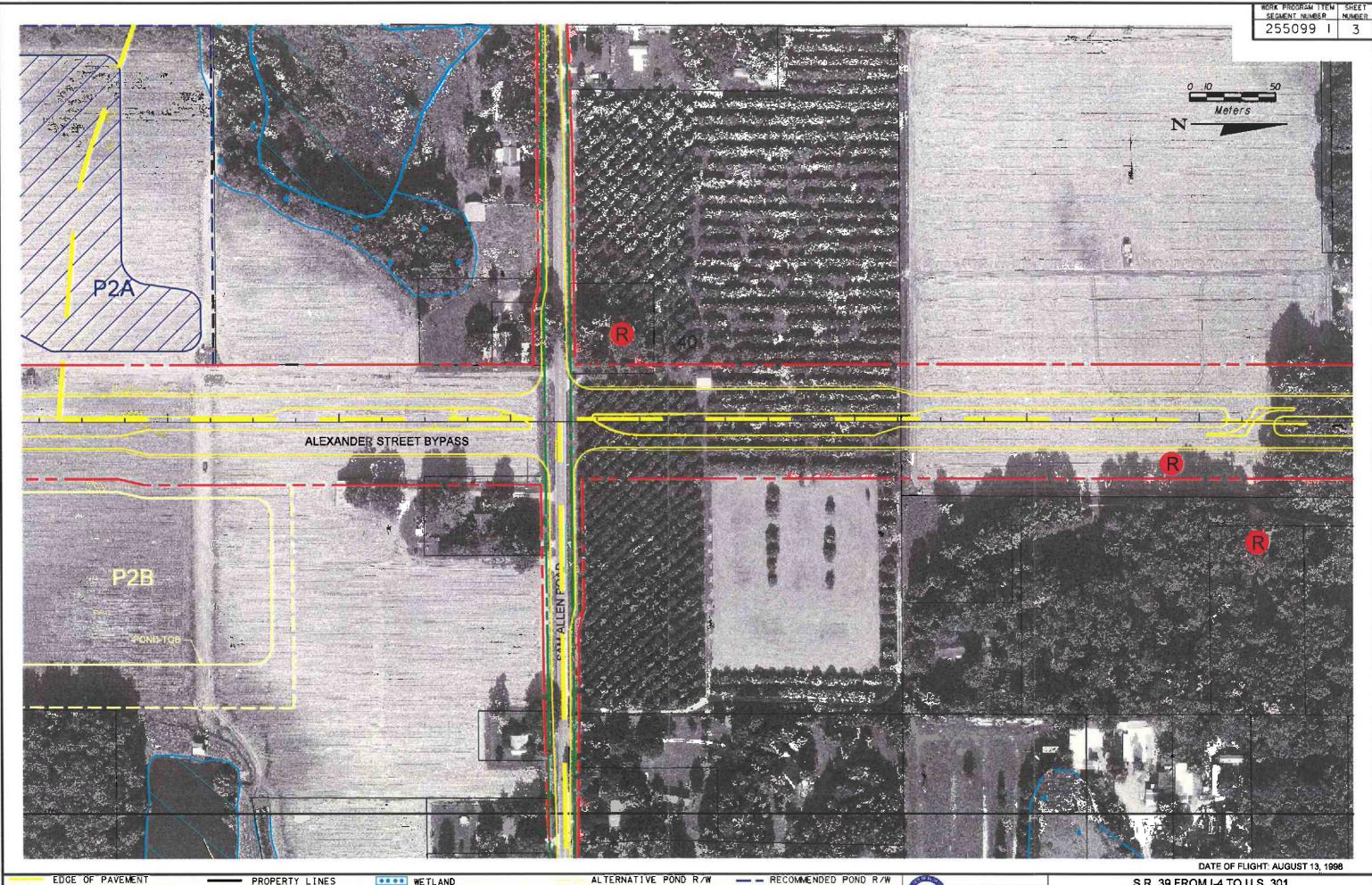
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OUTFALL

FLORIDA DEPARTMENT OF TRANSPORTATION



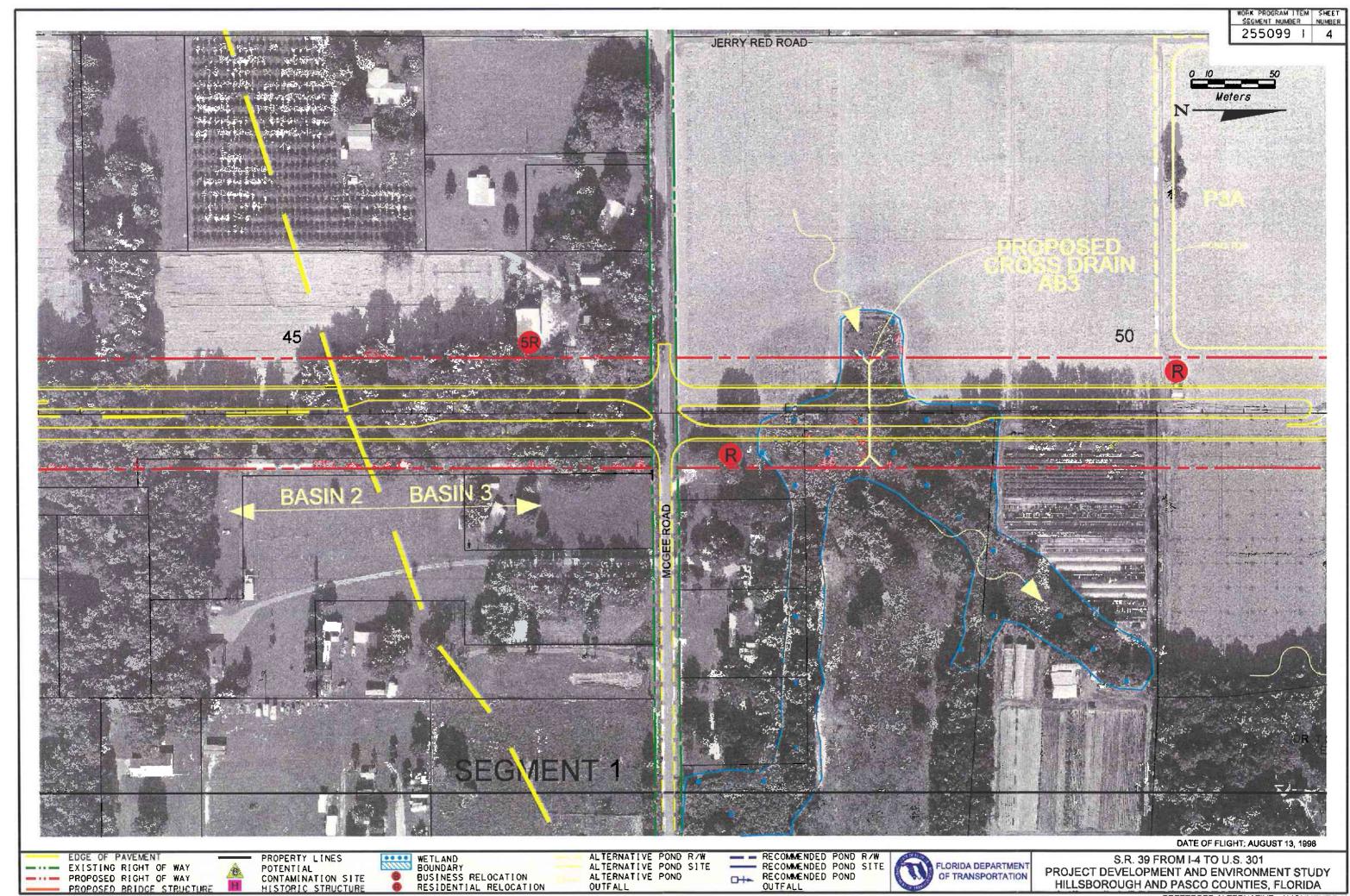
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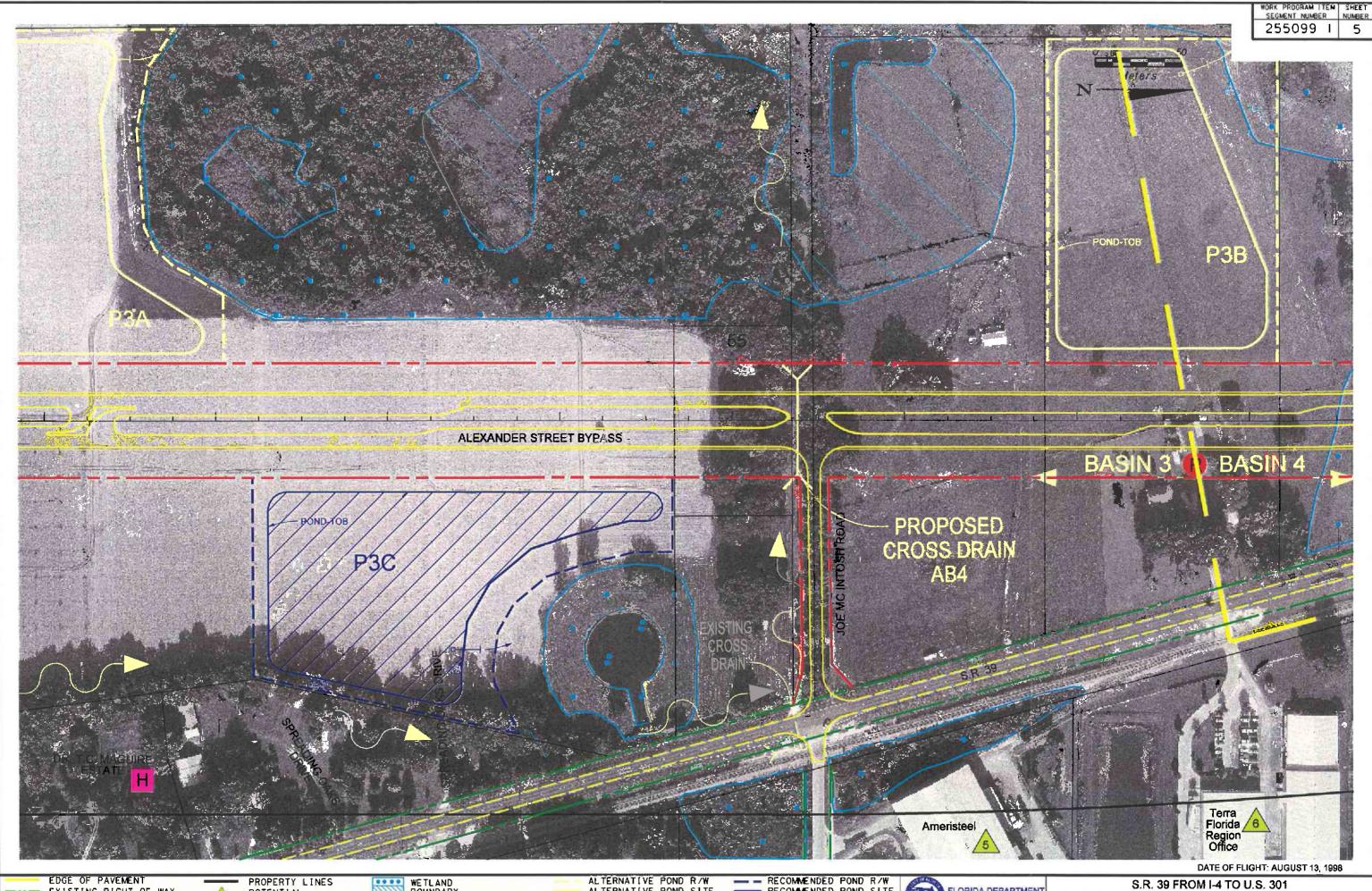
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ALTERNATIVE POND SITE
ALTERNATIVE POND
OUTFALL

RECOMMENDED POND R/W
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RECOMMENDED POND
OUTFALL

FLORIDA DEPARTMENT OF TRANSPORTATION





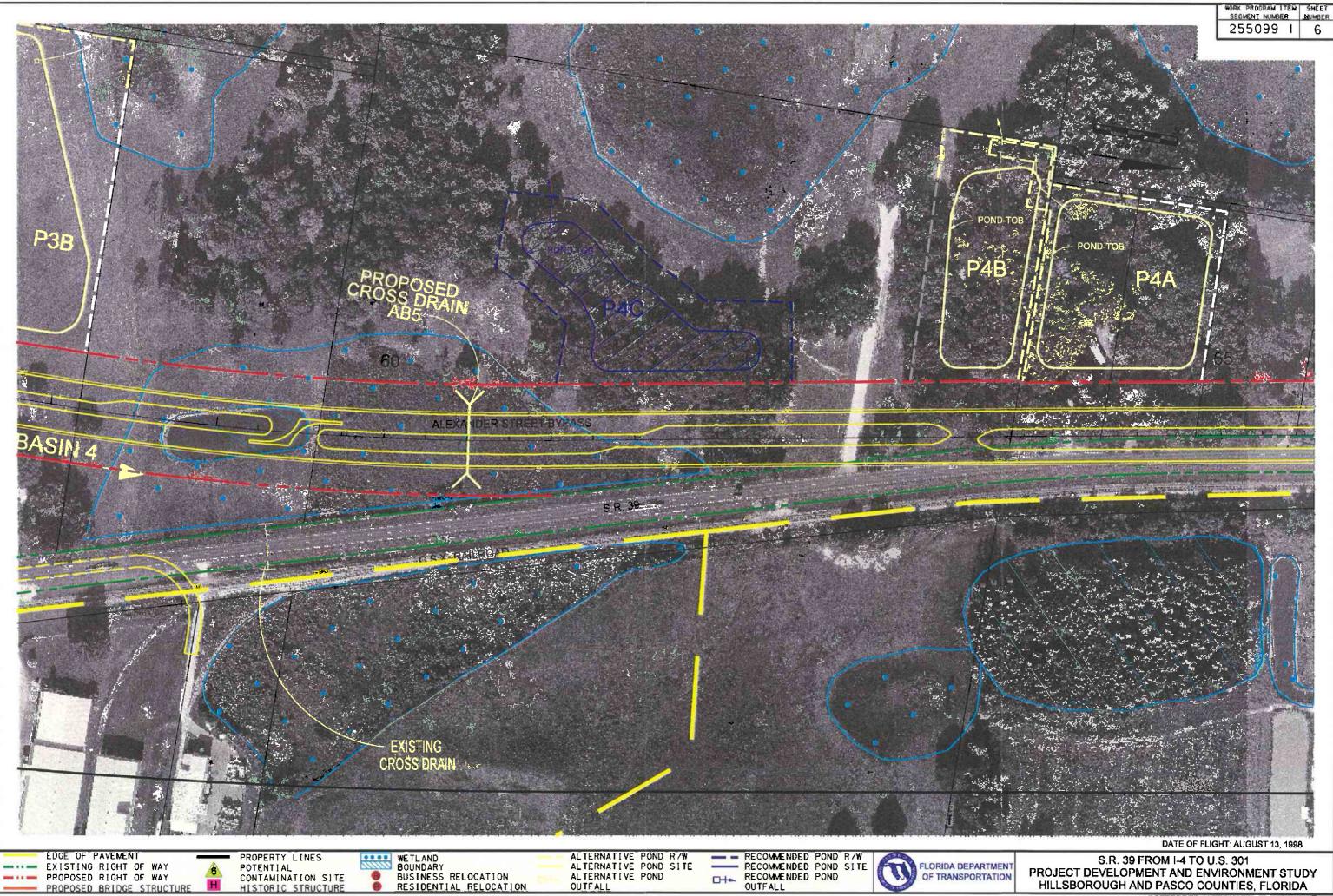
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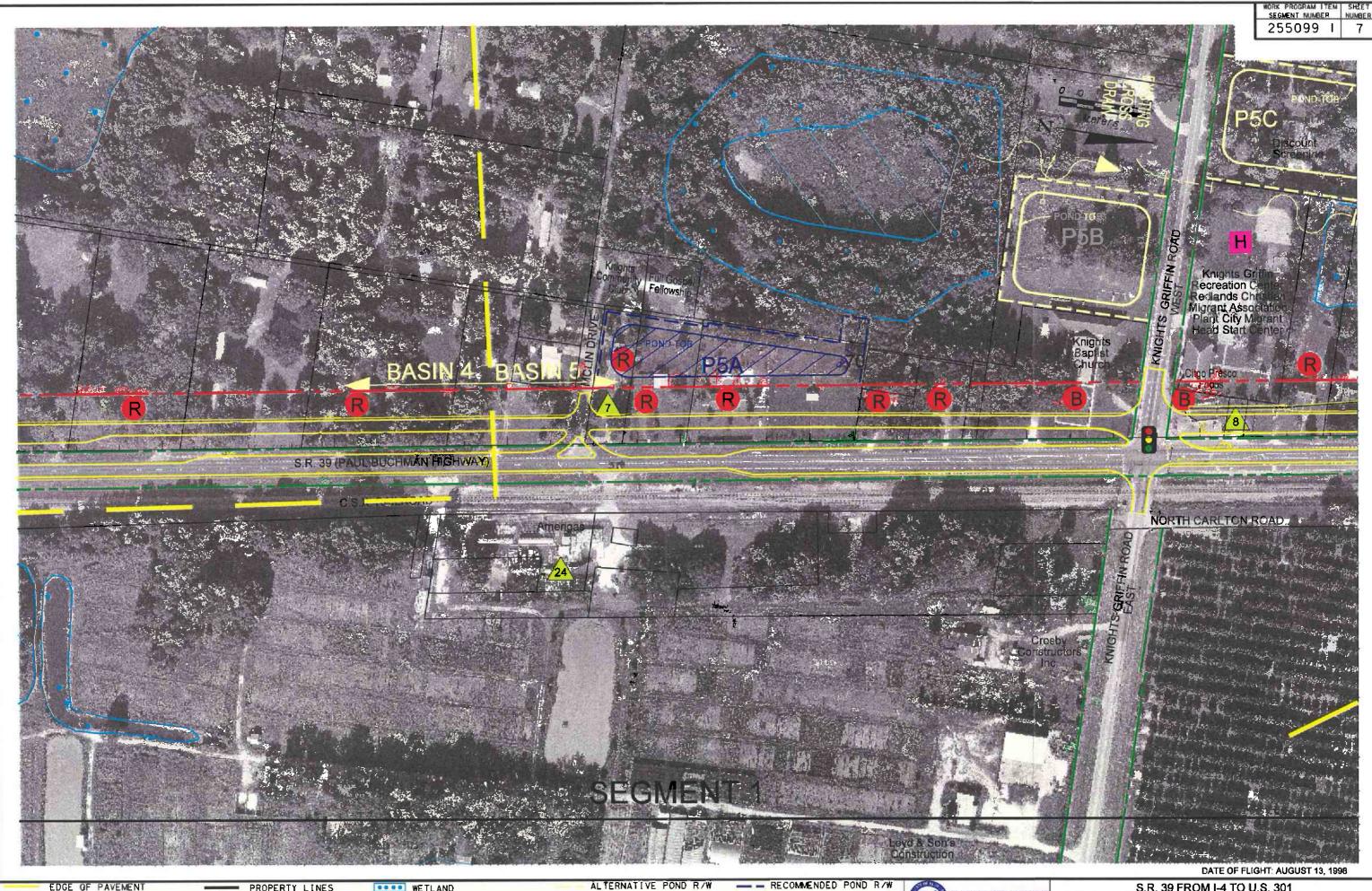
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RECOMMENDED POND SITE
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FLORIDA DEPARTMENT OF TRANSPORTATION





PROPERTY LINES
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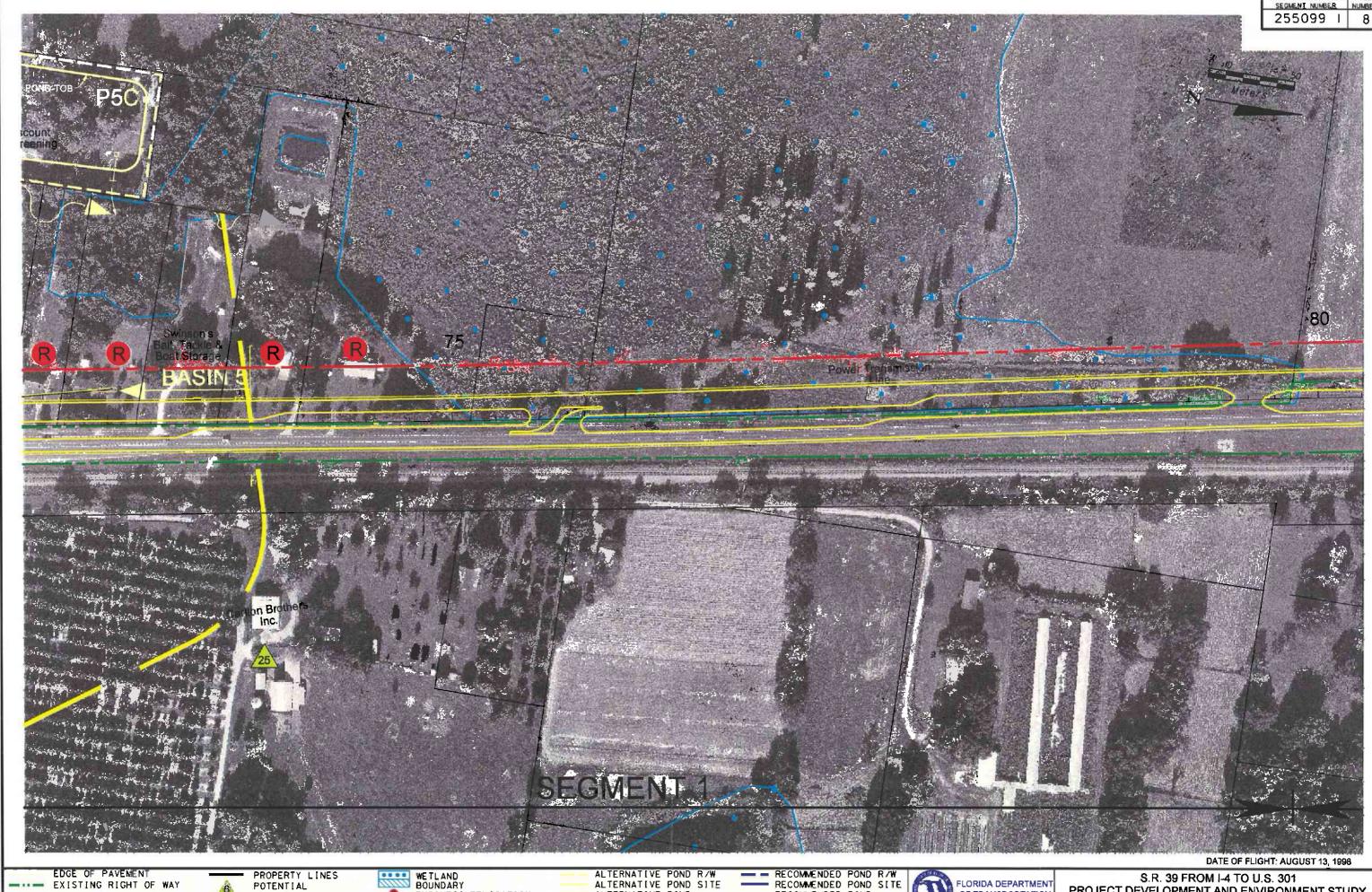
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ALTERNATIVE POND R/W ALTERNATIVE POND SITE ALTERNATIVE POND OUTFALL

RECOMMENDED POND R/W
RECOMMENDED POND SITE
RECOMMENDED POND
OUTFALL



S.R. 39 FROM I-4 TO U.S. 301
PROJECT DEVELOPMENT AND ENVIRONMENT STUDY
HILLSBOROUGH AND PASCO COUNTIES, FLORIDA
PREFERRED ALTERNATIVE - ALIGNMENT R-



PROPOSED RIGHT OF WAY
PROPOSED BRIDGE STRUCTURE

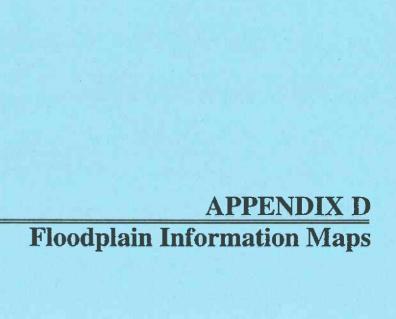
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POTENTIAL
CONTAMINATION SITE
HISTORIC STRUCTURE

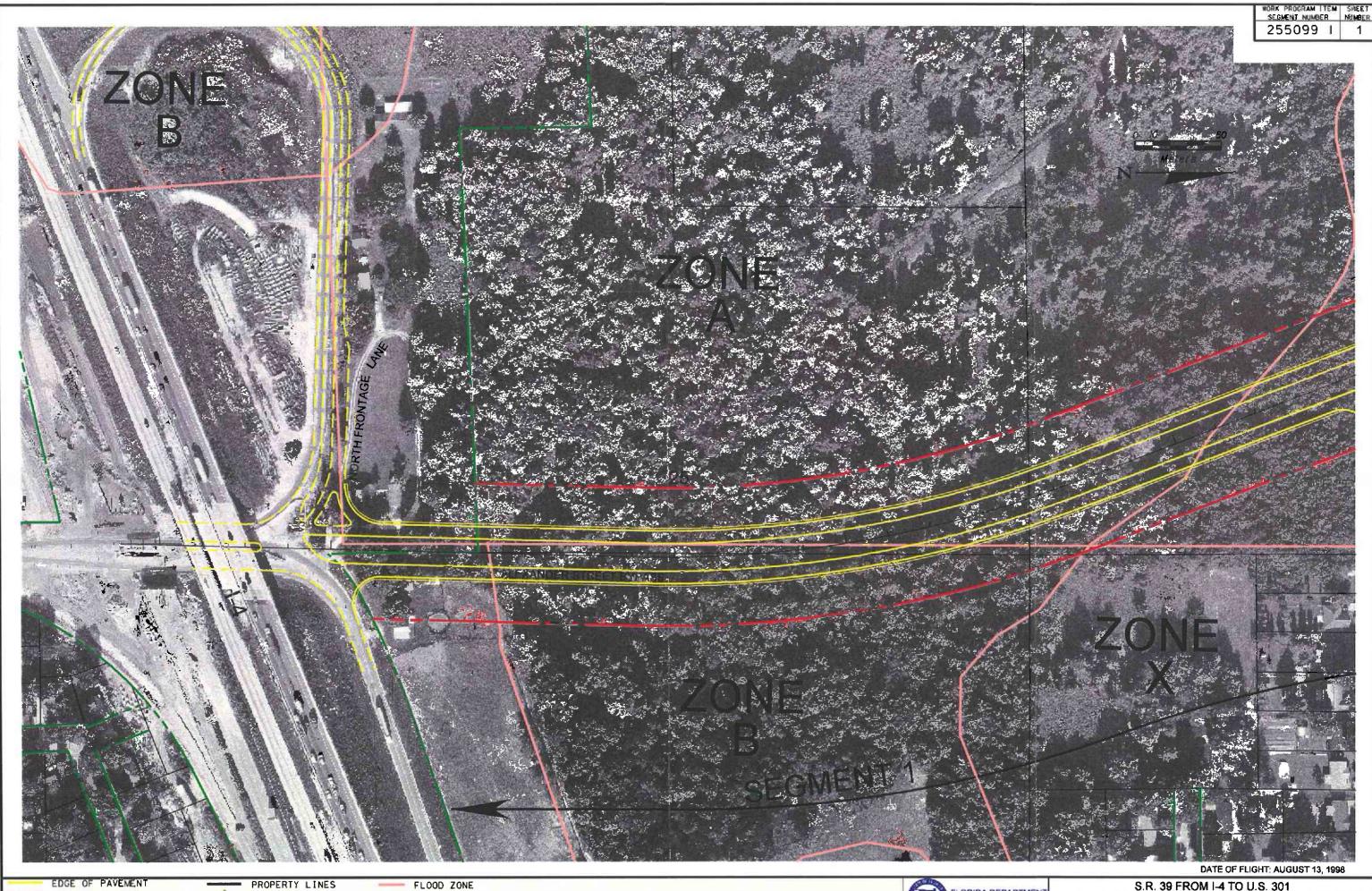
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FLORIDA DEPARTMENT OF TRANSPORTATION





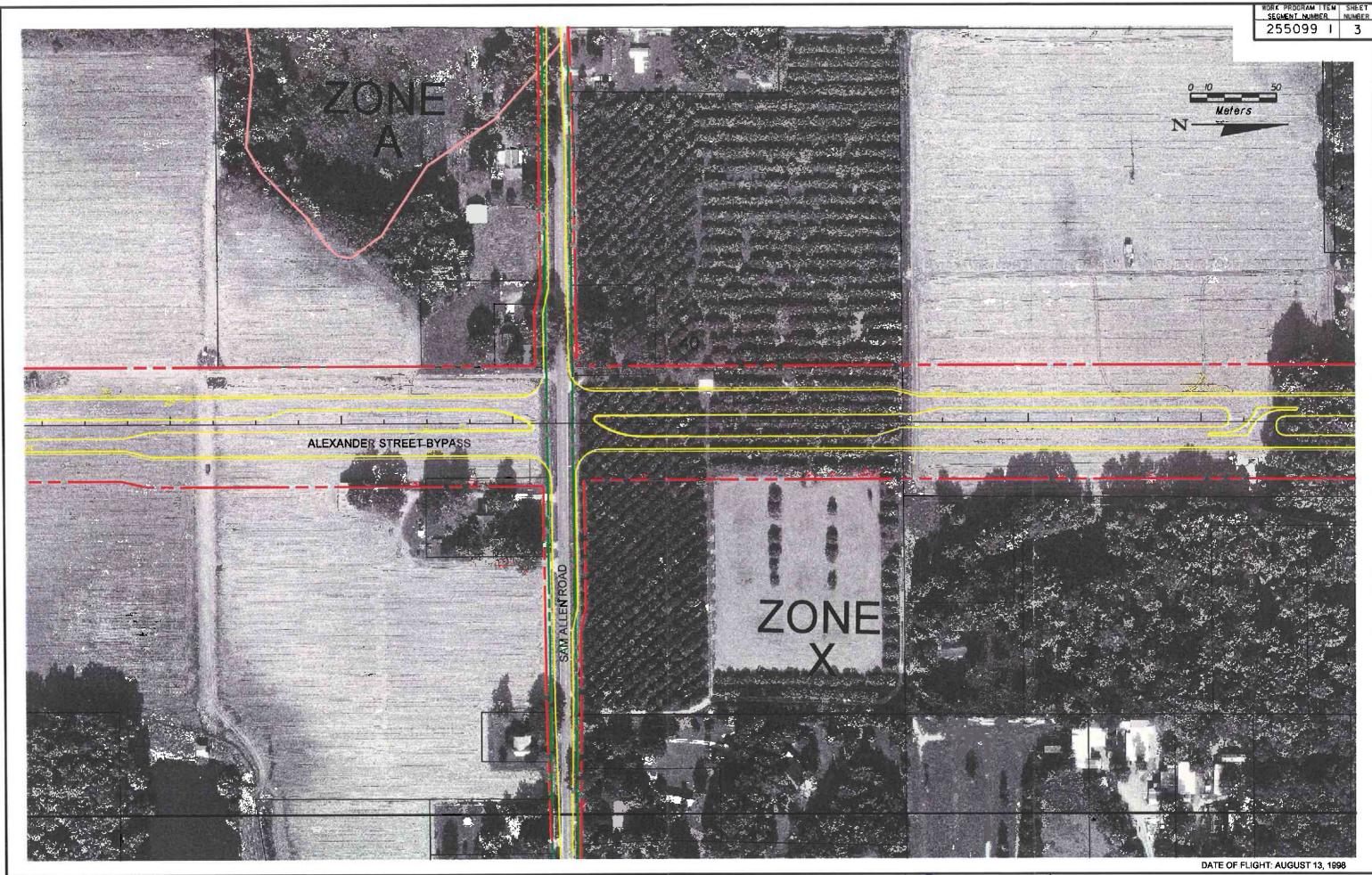
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FLORIDA DEPARTMENT OF TRANSPORTATION



PROPERTY LINES
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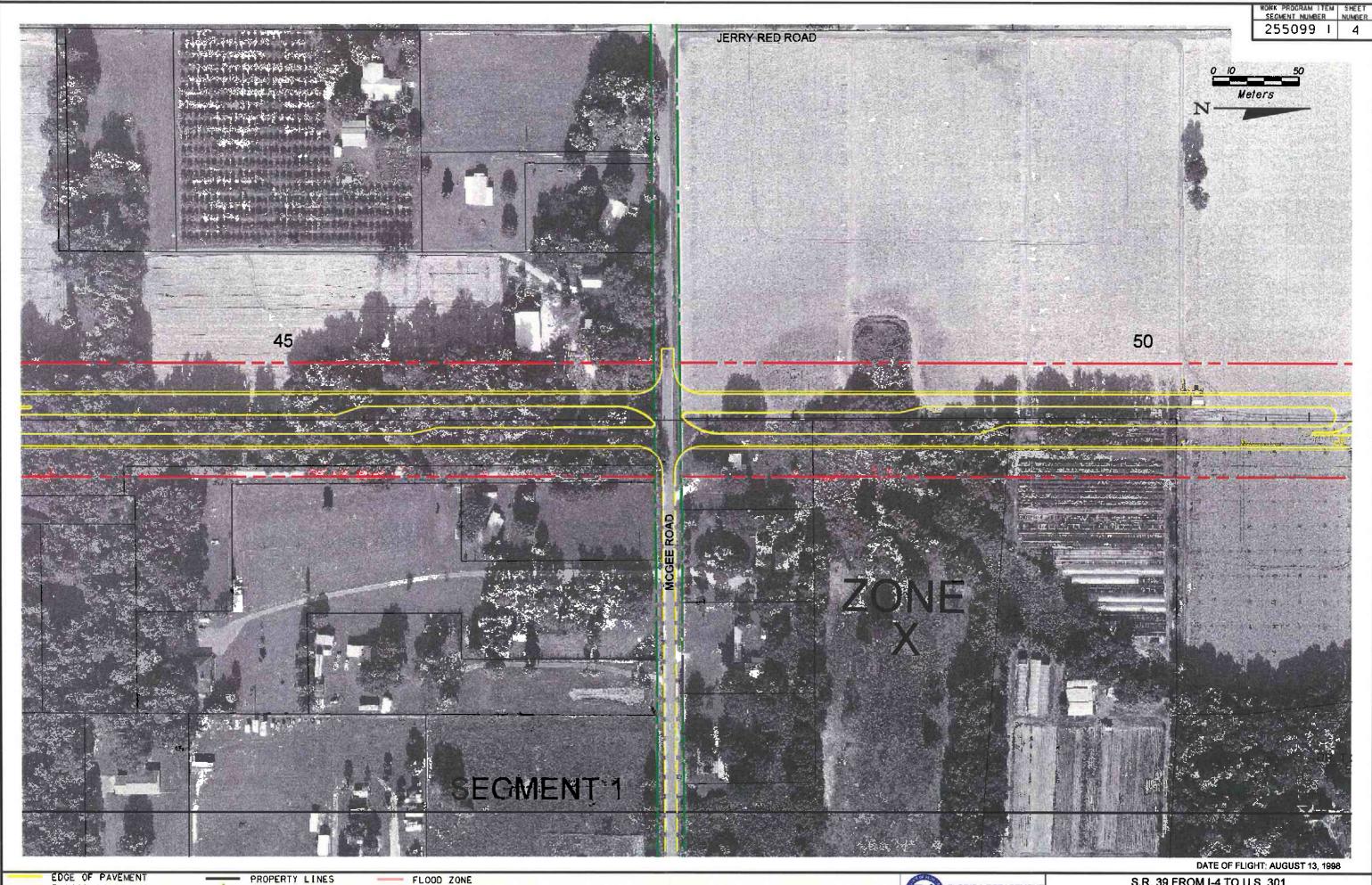
FLORIDA DEPARTMENT OF TRANSPORTATION



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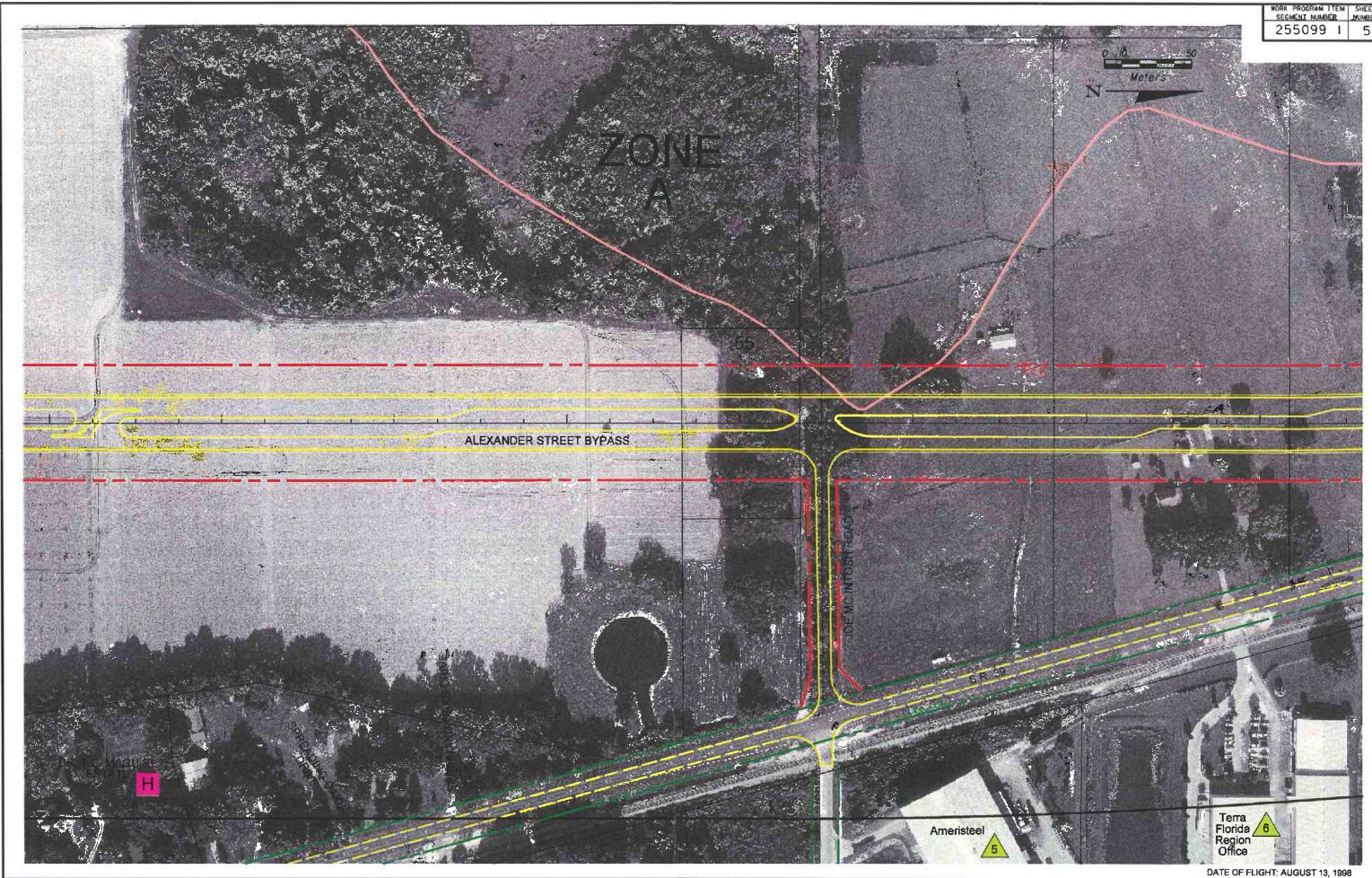
FLOOD ZONE

FLORIDA DEPARTMENT OF TRANSPORTATION



PROPERTY LINES
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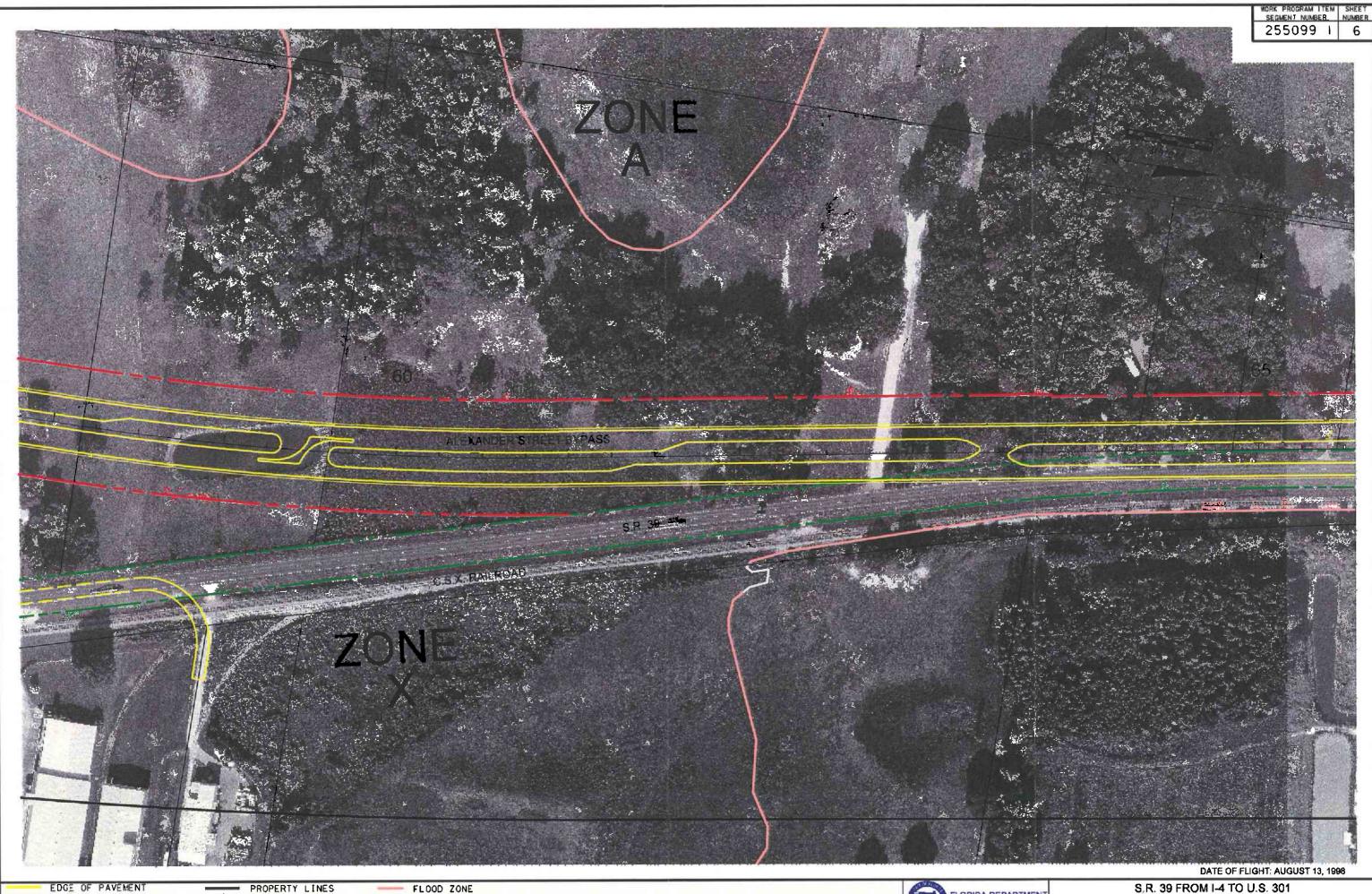
FLORIDA DEPARTMENT OF TRANSPORTATION



PROPERTY LINES
POTENTIAL
CONTAMINATION SITE
HISTORIC STRUCTURE

FLOOD ZONE

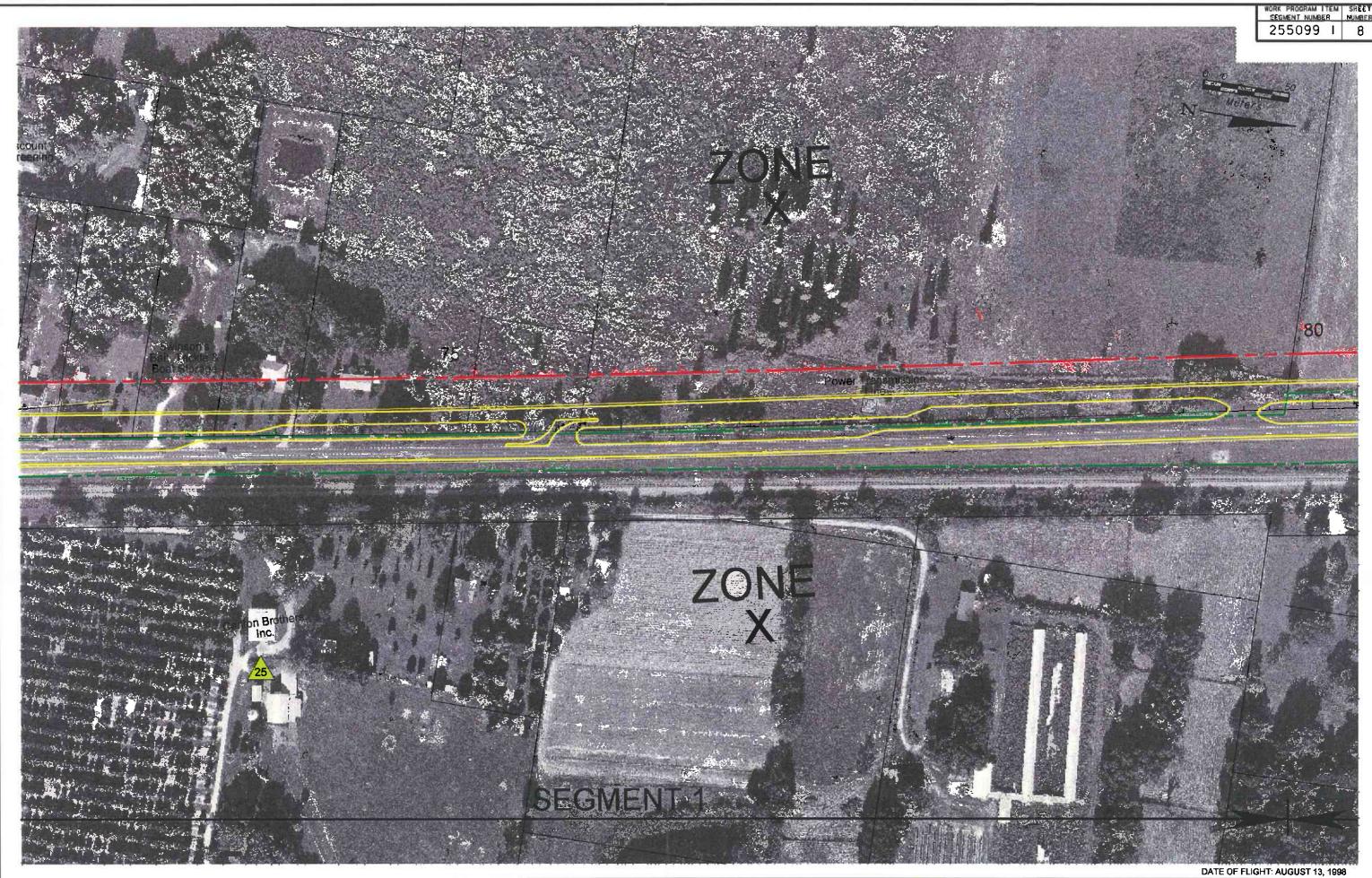
FLORIDA DEPARTMENT OF TRANSPORTATION



PROPERTY LINES
POTENTIAL
CONTAMINATION SITE
HISTORIC STRUCTURE

FLORIDA DEPARTMENT OF TRANSPORTATION





PROPERTY LINES
POTENTIAL
CONTAMINATION SITE
HISTORIC STRUCTURE

FLOOD ZONE



APPENDIX E
Communications

### Camp Dresser & McKee Inc.

engineering construction operations 1715 North Westshore Boulevard, Suite 875 Tampa, Florida 33607 Tel: 813 281-2900 Fax: 813 288-8787

July 28, 1998

Ms. Pauline Baker United States Army Corps of Engineers P.O. Box 19247 Tampa, Florida 33686-9247

Subject: Pistol Range Regional Stormwater Treatment Facility Section 19 and 20, Township 28 South, Range 22 East

Plant City, Florida, Hillsborough County

COE #199704025

Dear Ms. Baker:

Attached for your review are the proposed construction plans (Figures 1 through 11) for the Pistol Range Regional Stormwater Treatment Facility located in the City of Plant City. The attached drawings show delineated wetland areas reviewed in the field by Peter Bottone (Peninsula Design & Engineering, Inc.) and Edward Craig (SWFWMD) on August 12, 1997 and Eric Summa (USACOE) on October 9, 1997 as well as proposed impacts. A summary of surface water and wetland impacts is shown in the attached Table 1. Also attached is a Wetland/Biological Assessment of the Pistol Range site by Peninsula Design & Engineering, Inc. (Attachment A) which includes copies of correspondence with the U.S. Army Corps of Engineers, the Southwest Florida Water Management District (SWFWMD), U.S. Fish and Wildlife Service and the State of Florida Division of Historic Resources in the appendix. A summary of the Pistol Range project is given below.

Stormwater management to help restore and protect Lake Thonotosassa is a major challenge confronting Plant City, Hillsborough County and SWFWMD. Lake Thonotosassa is a priority surface water body of regional or statewide significance, which requires restoration or protection under the Surface Water Improvement and Management (SWIM) Act.

The only inlet to stream to Lake Thonotosassa is Baker Creek. Pemberton Creek is a tributary to Baker Creek, draining the western portion of Plant City through the Westside Canal, Mill Creek and Spartman Branch. The Westside Canal flows south to north, west of the Central Business District of Plant City. The Westside Canal, approximately 0.7 miles north of Interstate 4, changes names to Mill Creek and then to Pemberton Creek at Wallace Branch Road.

SWFWMD has defined critical areas where the greatest improvement in water resources can be obtained for the least investment in best management practices (BMPs). The highest priority has been placed on the urban areas in and around Plant City. The Pistol Range Regional Stormwater Treatment Facility is a proposed SWFWMD Cooperative project with the City of Plant City. The goal is to facilitate improvements to water quality in Lake Thonotosassa that may be attributable to stormwater contributions and associated nutrient loads flowing to the lake via the Westside Canal.

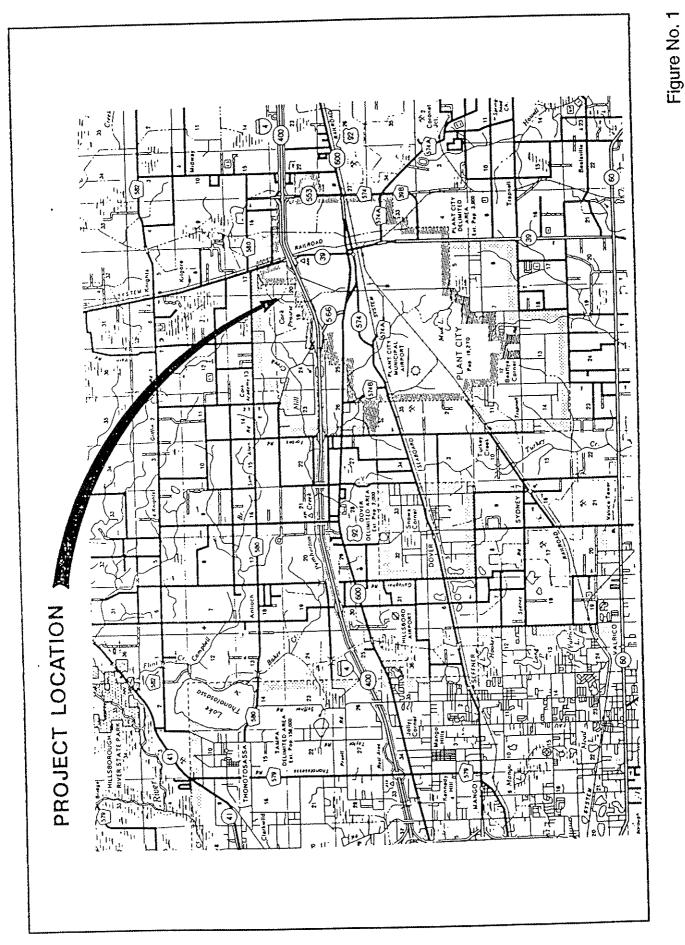


Figure No. 3
PISTOL RANGE REGIONAL
STORMWATER TREATMENT FACILITY
GRADING PLAN - EAST

t o

Mr. Carlos Lopez, P.E. April 14, 1999 Page 2

Table 1 summarizes the vertical control elevations (Natural Grade, SHWT, DHW) that were discussed and established in our meeting along with their locations. The minimum proposed PGL elevation for these locations was computed and included in this table.

Table 1 SR39 and Alexander Street Bypass PD&E Study From Interstate 4 to Knights-Griffin Road

Station (meters)	Natural Grade m (ft) NGVD	SHWT Elevation m (ft) NGVD	DHW Elevation m (ft) NGVD	Minimum Proposed PGL Elevation m (ft) NGVD
25+00	32.31	32.31	32.54	33.72
	(106.00)	(106.00)	(106.75)	(110.62)
34+00	31.58	31.72	31.95	33.13
	(103.62)	(104.08)	(104.83)	(108.70)
44+00	33.53	31.62	31.85	33.53
	(110.00)	(103.75)	(104.50)	(110.00)
48+00	31.39	30.63	30.86	32.04
	(103.00)	(100.5)	(101.25)	(105.12)
55+00	31.70	31.39	31.62	32.80
	(104.00)	(103.00)	(103.75)	(107.62)
61+00	31.39	31.70	31.93	33.11
	(103.00)	(104.00)	(104.75)	(108.62)
67+00	33.60	32.13	32.35	33.53
	(110.24)	(105.40)	(106.25)	(110.02)
71+50	32.13	30.94	31.16	32.34
	(105.41)	(101.49)	(102.24)	(106.11)

The remainder of this letter explains how the information in Table 1 was determined and includes other information such as discussions on wetland flood indicators, base flood elevations and suggested PGL elevations (McGee Road), etc. The new roadway alignment of the project, which runs from I-4 to SR 39, is known as the Alexander Street Bypass and is hereafter referred to as the ASB.

Mr. Carlos Lopez, P.E. April 14, 1999 Page 4

At station 61+00, a wetland area will be crossed by the ASB (location 10W). The SHWT was estimated at 31.70 m (104.0 ft) NGVD.

The drainage basin south of Knights-Griffin Road will outfall to a wetland area southwest of the intersection of SR39 and Knights-Griffin Road. The SHWT at approximately station 67+00 was estimated at 32.13 m (105.40 ft) NGVD using a soil boring (location 11B).

A soil boring was taken at the southwest quadrant of the Knight-Griffin/SR39 intersection (location 13B), and the SHWT was estimated at 30.93 m (101.49 ft) NGVD. This is below the existing grade of 32.13 m (105.41 ft) NGVD.

In the area of station 61+00, stormwater would be diverted from one basin to another in the proposed pond siting scheme. Carlos Lopez suggested that another pond and alternates be sited for this basin so the stormwater diversion would not occur.

This is our understanding of what was discussed in our meeting and the resulting minimum PGL elevations. If there are any corrections required to the above information, please advise.

Sincerely,

URS GREINER, INC.

JYZ/mhc

attachments

cc: Gabor Farkasfalvy

Kevin Doyle (URSGWC)

Lisa Heimburg, P.E. (URSGWC) Robert Johnson, P.E. (URSGWC)

# Interoffice

to: Gabor Farkasfalvy, Dennis Jent, Carlos Lopez, John Kubler

from: Mark Brown

subject: SR 39 From 1-4 to US 301, PD&E Study, Wetland & Soil Water Levels

date: March 14, 1999

At the request of PD&E and Greiner, I conducted water level determinations at various station locations associated with the proposed Alexander Street Extension and potential SR 39 improvements. The attached aerials provided by Greiner designate the locations (blue dots) where surface and ground water elevations were evaluated while using biological and/or soil indicators. For the wetland crossings, various water level indicators were used to determine normal pool (NP), seasonal high water table (SHWT) and flood elevations. In some wetland cases only one or two indicators are present, but at least the SHWT elevation was determined using the best available indicator. For the soil borings, only the SHWT distance below grade was determined and compared with the NRCS Hillsborough County Soil Survey information.

In order to potentially minimize the effort needed by the DOT survey crew to spend on the sites. I have referenced the natural grade elevations listed in the table provided by Greiner. Depending on the degree of accuracy associated with those elevations and the necessity to compile exact elevations for the PD&E level study, the elevations I provide for each of the requested stations may be all that is needed. This is particular true for the soil borings that have a deep SHWT elevation compared to the proposed road grade. I refer to Gabor and Carlos for that decision. In any case, I will provide directions and survey locations on the aerials to assist the survey crew locate the sites for the Alexander Street Extension. The remaining SR 39 locations are adjacent to the existing R/W

Sites 1W and 2W (Sheet 1) - This is a severely dewatered swamp, which has resulted in a couple feet of muck oxidation within some portions. Since organic muck oxidizes down to an elevation where the soil stays somewhat saturated, an estimated SHWT equates to the interior grade elevations. I flagged six locations spaced 30-40 ft. apart within the proposed roadway alignment through the lower grade elevations. Based on plant cover, it appears these six flags cover an area where the SHWT still reaches existing grade. According to the table, the grade elevation from that area (Stations 25+70 and 27+23) are 105.5 ft. and 106.0 ft. Location: Either Alexander Street from the south or Franklin Street from the north, take the North Frontage Lane (dirt) down the proposed extension route. There are pink locator flags leading down to the lower elevations from a tree along the north side of the adjacent horse stables.

Site 3W (Sheet 2) - The wetland boundary is further north than depicted on the aerial so the site was moved north. I nailed a SHWT and NP elevation in a maple adjacent to a small pond. I can't get a good handle on the grade elevation at that location. Station 33+63 is listed as 110.0 ft., Stations 34+24 and 34+85 are listed as 105.0 ft. and 104.0 ft. Even though the nailed tree is closest to Station 33. I can't help but believe the grade is closer to 105 ft. Location: Take Terrace Drive west from

Gabor Farkasfalvy, Dennis Jont, Carlos Lopez Page 3 March 15, 1999

grade and the site is located between Station 54-194 (110.0 ft.) and Station 56-119 (105.0 ft.). A boring was not conducted at Site 9B however it appears from vegetative cover and grade elevation that approximately the same water level conditions can be expected. Location: Either take the crop roads from Site 7B or the private driveway off SR 39.

Site 10W (Sheet 6) - This is a wetland marsh and the estimated SHWT matches the perimeter grade elevation (one stake with pink flagging). The closest station (Station 60+91) is listed at elevation 103.0 ft. If that is accurate, I would estimate the SHWT of the marsh to be approximately 104.0 ft. Location: Did not locate a gate, just crossed the fence along SR 39.

Sites 11B and 13B (Sheet 7) - These sites have similar soils and both mapped within the NRCS soil survey as having Candler soils which has a SHWT greater than 80 inches below grade. However, both sites are not quite as well drained but made up of known inclusions of the Candler series. Site 11B is considered a Millhopper soil which was determined to have a SHWT at 58 inches below grade. The boring was conducted within a few feet north of SR 39 and the closest station (Station 67+16) has a road elevation of 108.2 ft. which would approximate a SHWT elevation of 103.3 ft. Site 13B was found to have a Tavares soil with a SHWT at 47 inches below grade at Station 71+31 (fil. 106.0 ft.) which would approximate a SHWT elevation of 102.1 ft.

Site 12W (Sheet 7) - This maple swamp surrounding a marsh exhibits substantial water level elevations. Three nails were set in a maple found southwest of Knights Baptist Church. These nails represent a Flood, SHWT, and NP elevation. Since this swamp outfalls through a ditch located under Knights Griffin Road (West), it may be prudent to get a cross-sectional survey of that culvert crossing. Since the roadway does not encroach upon this wetland, I did not have any grade elevations to estimate the nail elevations.

Site 14W (Sheet 8) - This is a large marsh adjacent to SR 39. A few cypress are located ithin the proposed R/W. SHWT and NP elevations are nailed in the tree 1-1.5 ft. above grade. Station 78+63 grade elevation is listed at 101 ft., Station 78+80 is listed as 100 ft. The cypress tree is located at Station 79+00 so depending on the grade elevation, the SHWT could be as high as 102.5 ft.

Site 15W (Sheet 11) - There is a forested wetland west of the R/W where I hammered a nail in a cypress tree for the Flood/SHWT elevation and the grade elevation is NP. Since the wetland is away from the R/W, I cannot estimate the grade elevation compared to the roadway elevation.

Site 16W (Sheet 12) - There is an dredged, impounded pond adjacent to the roadway but the site conditions do not exhibit good natural water level conditions. A soil boring within proximity of the roadway also did not have a natural soil profile. Based on vegetative indicators, I placed a stake along the roadway sideslope where the water level appears to reach during SHWT conditions. This clovation is probably 1-1.5 ft. below the road grade elevation.

### **MEMORANDUM**

Florida Department of Transportation Environmental Management Office - MS 7-500

DATE:

November 22, 1999

TO:

Gabor Farkasfalvy, Project Engineer

FROM:

Todd Mccklenborg, Biologist

TW

COPIES:

File

SUBJECT:

WPI Seg. No. 255099 1, SR 39 Pond Siting

Per your request, field surveys were conducted during the month of November along the SR 39 corridor. As part of the pond siting request the alternative pond locations were investigated for threatened or endangered species occurrences and wetland concerns.

No species listed as threatened or endangered were observed during the field reconnaissances within the potential pond locations. The limits of the ponds will not impact jurisdictional wetland areas with their current configuration.

Date: 03/20/00

From: Rebecca Schwarz KN704SR - DOT1
To: Gabor I. Farkasfalvy PD701GF - DOT1

Subject: SR 39 PD&E, CRAS for Proposed Pond Sites (255099 1 & 256289 1)

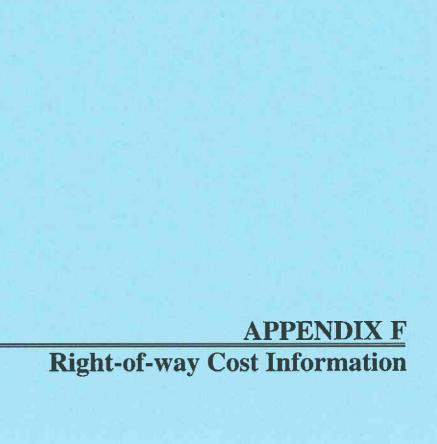
Gabor

In answer to your request last week, I am sending you an e-mail which summarizes the findings in the Cultural Resource Assessment Survey (CRAS) Report (November 1999) that pertain to the proposed pond sites. The CRAS, prepared by Archaeological Consultants, Inc. (ACI), included an update of the mainline roadway, as well as 15 proposed pond sites located in the vicinity of the Alexander Street Bypass between I-4 and Knights Griffin Road. As a result, four previously recorded archaeological sites (8HI5360, 8HI5363, 8HI5361, and 8HI5070) were identified within proposed ponds P1B, P2B, P2C, and PIC, respectively. None of these lithic and artifact scatter type sites was evaluated as being potentially eligible for listing in the National Register of Historic Places (NRHP). In addition, one "archaeological occurence," evidenced by a single ceramic sherd, was discovered in proposed Pond P1A. This single artifact find may be associated with 8HI5360. No historic structures were found within any of the proposed ponds. Five proposed ponds (P2A, P2B, P3A, P3B, and P3C) were not archaeologically field tested due to either denial of landowner permission for access (P3B & P3C), the presence of newly cultivated agricultural fields (P2A, P2B, P3A), or the adequacy of previous archaeological survey (P2B).

The CRAS Report was submitted to the FHWA and the SHPO for review in December 1999. The SHPO responded with a concurrence letter dated February 24, 2000. They indicated that if any of the proposed ponds that were not archaeologically field tested are selected for construction they will need to be tested.

In summary, none of the 15 proposed pond sites, evaluated in the November 1999 CRAS, involve significant archaeological or historical resources.

-- Becky Spain Schwarz, D-7 Cultural Resource Program Manager





JEB BUSH GOVERNOR 11201 N. McKINLEY DRIVE \* TAMPA, FL 33612-6456 \* 975-6119 \* 1-800-226-7220 PD&E DEPARTMENT \* M.S. 7-500

THOMAS F. BARRY, JR. SECRETARY

Date: December 1, 1999 Phone: (813) 975-6455 Fax: (813) 975-6451

### LETTER OF TRANSMITTAL

Fax: (813) 9/3-6431	I KANSIMI I	. <b>AL</b>	
TO: Kevin Doyle		RE: WPI Seg. No. 255099	1
Greiner			
	And the state of t		
WE ARE FORWARDING TO YOU:			
Copy of Letter(s) Preliminary Concept Plans Draft Engineering Report Public Information/Letter X The Following Described Item(s) S.R. 39 right-of-way cost estimate.		Final Environmental Reports Request(s) for Traffic Study Permit(s)/Agreements(s) Draft Environmental Report	
THESE ARE TRANSMITTED/RETU	IDNED.		
		For Circulation	Review
For Approval For Revis For Your Use For Signa As Requested For Your	ature	For Your Handling For Your Information	& Comments Other
	•		
		BY: Gabor Farkasfalvy	
cc:		•	
	www.dot.state.fl.	us TITLE: Project Manager	HECYCLED PAPER



#### **MEMORANDUM**

Date:

October 27, 1999

To:

Aurelie J. Anthony, Dep. District R/W Manager, Operations (MS 7-900)

FDOT - District Seven

From:

Mitch Hammer, PBS&J

Subject:

Cost Estimate

FP#

: 2550991 & 2562891

WPI#

: 7113826

**FAP** 

: N/A

PBS&J#

: 700140.06

County

: Hillsborough & Pasco

Description: SR 39/Alexander St. extension From I-4 to US 301

Type of Est.: Work Program

in accordance with your request, a R/W cost estimate has been prepared for the above project. Attached is the estimate based on PD&E aerial maps. This estimate includes an update of the prior estimate submitted 2/18/88 in addition to three new segments (2, 3A and 3B) and 15 pond alternates. Business damage estimates were provided by Gerson, Preston & Co.

Please call if you have questions or concerns (877-7275 x499). At your direction additional copies will be forwarded for distribution.

AFM RIGHT OL	<b>WAY COST ESTI</b>	TION MATE	PBS&J#:700140.06
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	105 Parcels x	12,000	Amount 1,260,000 Participating
	7 Claims x	19,000	133,000 Non-Partic. 39,500 Participating
	79 Parcels x	30,000	2,370,000 Participating
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			15,000 Participating
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	(100% Participating)	TOTAL PHASE 42	\$
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	(100% Participating)	TOTAL PHASE 45	\$550,50
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		Date:	10-27-47
	105   =   105	Segment 2   Estimated R   Business   Residential   Signs   Special   Total Relocation   Estimated Relocatees: Business   Residential   Signs   Special   Total Relocatees:   Substitution   Special   Total Relocatees   Special   Total Relocatees   Special   Total Relocatees   Substitution   Special   Total Relocatees   Substitution	
1 4

#### FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT SEVEN RIGHT OF WAY COST ESTIMATE PBS&J#:700140.06 Seven District 7113826 Former WPW: 2550991 26-0ct-99 FP# Date: NIA FAP No.: Hills./Pasco N!A County: C.E. Sequence #: Segment 3-8 Alternate: State Rd.: 39 SR 39 from 1-4 to US 301 Project Des Estimated Relocatees: Gross Ū Parcels: Business ~~ 6 Business Residential 13 13 Ō Residential Signs 15 15 Unimproved Special 8 Total Relocates: 32 32 Total Parcels Federal Aid Amount RIW SUPPORT COSTS (PHASE 41) Participating 208,000 6,500 Rate) 32 (Parcels Participating \$208,000 1. Direct Labor Cost Rate) NIA 32 2. Indirect Overhead (Parcels TOTAL PHASE 41 0 ) (Non-Participating 208,000 ) 3. (Participating Amount RIW OPS (PHASE 4B) 384,000 Participating 12,000 32 Parcels x Appraisal Fees Through Trial 19,000 Non-Partic. 19,000 1 Claims x Business Damage CPA Fees Through Trial 500 12,000 Participating 24 Parcels x Court Reporter & Process Servers 75% 720,000 Participating 30,000 24 Parcels x 75% Expert Witness 38,400 Participating 2,400 16 Parcels x 50% Mediators 135,000 Participating 15,000 9 Imprymt x 9. Demolition, Asb. Abate., Survey, etc. 15,000 Participating Per Project 10. Miscellaneous Contracts 0 Participating 5,000 NIA Parcels x 11. Appraisal Fee Review \$1,323,400 TOTAL PHASE 4B 19,008 1 (Non-Participating 1.304.400 ) 12. (Participating Amount Subtotal RIW LAND COSTS (PHASE 43) 13. Land, improvements & Severance Damages/Cost to Cure **Participating** 1,723,257 130% \* Dasign plan stage 1,325,582 Amount Participating 0 130% (0 parcels wio /R/W Acq 14. Water Retention & Mit. Ω X 1,723,257 SUBTOTAL (Lines 13 and 14) 15. Participating 232,600 30% of Line 15) 45% 16. Admin. Settlements Factor **Participating** 723,800 of Line 15) 70% 60% 17. Litigation Awards (Factor Non-Partic. 43,000 ± n 18. Business Damages (Claims Non-Partic. 10,800 \$43,000 25% (Factor 19, Bus. Damages Incrs. Non Partic. 240,000 \$10,000 24 (Parcels 20, Owner Appr. Fees Non-Partic. 10,000 \$10,000 (Claims 21. Owner CPA Fees Non-Partic. 404,100 40% 22. Defend. Atty Fees (Lines 16+17+18+19) Non-Partic. ) x 18,000 342,000 Unimproved 23. Owner Expert Witness (Businesses **Participating** \$500 16,000 (Parcels 24. Other Condemn. Costs 2,022,300 SUBTOTAL (lines 16 thru 24) 3,745,600 TOTAL PHASE 43 1,049,900) + (Non-Participating 2,695,700) 26. (Participating Design contingency for design plan stage: (3) 60% plans - 120% (4) 90% plans - 115% (5) 268 Date - 110% (1) PD&E plans · 130% (2) 30% plans · 125% Federal Aid RIW ACQUISITION CONSULTANT (PHASE 42) \$0 **TOTAL PHASE 42** (100% Participating) 27. RELOCATION COSTS (PHASE 45) Number Amount Replacement Housing 60.000 \$20,000 Per Unit 28. Owner 30,000 3 \$10,000 Per Unit 29. Tenant Move Costs 9.000 6 \$1,500 Per Unit 30. Residential \$20,000 Per Unit 31. Business/farm \$4,000 \$2,000 Per Unit 32. Personal Property 1103,000 TOTAL PHASE 45 (100% Participating) 33. (Lines 28 thru 32) \$10,300 (Not in Phase Total) 34. Relocation Services Cost Non-Participating 1,068,900 35. **Participating** 4,311,100 36. TOTAL ESTIMATE \$5,380,000 (All Phases) 37 Date: Signed: Mitch Hammer Appraisal: 25-0ct-99 Date: By attachme Signed: Gerson, Preston & Co. Bus. Dam. : 10-26-Date: Signed: Relocation: Mitch Hammer Date: Signed: Terry L. Dunn Overall Review: Data Input Completion Date: In the amount of \$ Cost Estimate Sequence # REMARKS: Segment 3B from Blount Ave. to US 301(east and west side alignments).

he following indicates the estimator's confidence in the above estimate:  Type A - indicates the most confidence  Type B - indicates above average confidence  X Type C - indicates below average confidence  Type D - indicates the least or no confidence	Future Value Factors @ One Year: Two Years: Three Years: Four Years: Five Years:	10.0% 1.1000 1.2100 1.3310 1.4641 1.6105
The following indicates the Department's purpose for this estimate:  Work Program Update:  X Special Purpose: Comm	nents:	

Former WPI#:		WAY COST ESTIMA	1	PBS&J#:700149.06
	7113826		District:	Seven 26-Oct-99
FAP Na.:	N/A		Date:	N/A
Alternate:	POND P18		C.E. Sequence #:	10/4
		Estimated Re	locatees:	
O Count incl. in r	nainline parcel	Business		<u> </u>
0				U G
0				0
D			1885	G
			Amount	Federal Aid
0	x 6,500	Rate)		Participating
				Participating \$1
() + (Non-	Participating	a 0/	TOTAL FIRAGE 41	Amount
		A Darnale v	12 000	O Participating
-1-1			19.000	0 Non-Partic.
	x 0	= 0 Parcels x	500	0 Participating
75%	x 0	■ 0 Parcels x		0 Participating
50%	x <u> </u>			0 Participating 0 Participating
		•	13,000	15,000 Participating
			5,000	0 Participating
INDI + (Non-	Participating	= 0)	TOTAL PHASE 4B	<b>\$15,00</b>
		The state of the s	Amount	Subtotal
mages/Cost to Cure				
130% * D	esign plan stage		0	Participating
) ×			54,626	Participating
<del></del>	SUBTOTAL (Line	es 13 and 14)		54,626
45%	x 30%			Participating
				Participating Non-Partic.
				Non-Partic.
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0			0	Non-Partic.
+ 19)				Non-Partic.
os <u>0</u>	· ·			Non-Partic. Participating
U			<u></u>	42,400
4 900 ) + {N			TOTAL PHASE 43	<b>\$97,0</b> (
ge:			Comment of the Commen	3000
olans - 125% (3)	60% plans - 120% (4)	90% plans - 115% (5) 26	8 Date - 110%	
E 42)		14000 P - 1 1 - 1 - 1	TOTAL DUACE 42	Federal Aid
		(100% Participating)	HUTAL PHASE 42	
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0 000 Per Unit			0	
		)	0	
			_	
1,500 Per Unit				
2,000 Per Unit	х			
	<b>\$</b> [		HOTALT HADE TO	
		12,1	DD <b>No</b> r	n-Participating
		99,9		ticipating
		(All Phases)	TOTAL ESTIMATE	\$112, <b>0</b>
			TOTAL ESTIMATE Date:	
Sign	ned:	(Ali Phases)	TOTAL ESTIMATE  Date: Date:	\$112, <b>0</b>
Sig:	ned: Make 7	(Ali Phases)	OTOTAL ESTIMATE  Date:  Date:  Date:	<b>\$112,0</b>
Sign Sign Sign	ned:	(All Phases)	TOTAL ESTIMATE  Date: Date:	\$112, <b>0</b>
	O   O   O   O   O   O   O   O   O   O	O   O   O   O   O   O   O   O   O   O	O   Count incl. in mainline parcel   Business   Residential   Signs   Special   Total Relocation   Total Relocation   Special   Total Relocation   Total Reloc	O   Count incl. in mainline parcel   Residential   Signs   Special   Total Relocatees

The following indicates the Department's purpose for this estimate:

Work Program Update:

X Special Purpose:

Comments:

		DINTRI	T 0511	IN DICUT OF W	AV COST ESTIMA	ON Ate	PBS&J#:700149.06
Court   Final   Parcel   Former WYEF   Final Sub   Date:   C.C. Sequence #:   NA   Sequence   Parcel   Sequence   Sequence		Company of the Company	programme and the state of the	Control of the Contro	AT COOT EDITION		Garage Colored
Alternate			H:				26-Oct-99
Internation	/Pasco					C.E. Sequence #:	N/A
Second Color	0 deam   4 to   10 201	Alternate.		, ORD I Zn			
State					Estimated R	elocatees:	
Appraisal   Parcels   Pa		Count incl.	in mainlir	ie parce!		<u> </u>	
Improvement				•			
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Table							
N SUPPORT COSTS (PHASE 41)	0:	0			i otal Keloc	and the second control of the second control	Commence of the Commence of th
Direct Lober Cost	(PHASE 41)						
More Participating		0	x				
	(Parcels	0	x				ratticipating
W   Pop F   PhASE 48		0) + (N	on Partic	ipating =	V )	STUTAL PRASE 41	
Appraisal Fees Through Trial   Substant Damage   PA Fees Through Trial   Substant Damage   Substant Damage   Substant Damage   Substant Damage   Substant		***************************************					
Businest Damage CPA Feas Through Trial	nuch Trial						
Court Reporter & Process Servers   75%	CPA Fees Through Tria	1					
Expert Witness	rocess Servers	75%	x				
Mediators		75%	X				
Demolition, Ash. Abate., Survey, etc.   15,000   Participating   Apprisatal Fee Review   15,000   Participating   Apprisatal Fee Review   15,000   Participating   15,000   Participating   Apprisatal Fee Review   15,000   Participating   15,000		50%	X	=			
Miscellaneous Contracts	bate., Survey, etc.				•		
Apprisial Fee Review   1.6,000   +   Non-Participating   0     TOTAL PHASE 48   115.	ntracts				•		
							115.
Mark   Participating   Parti	15,00	)() + II	Ion-Partic	ipating =	U į		
3. Land, Improvements & Severance Damages/Cost to Cure				—		Amount	2010191
Amount   0   x   130 %   130		ges/Cost to C	กเล			4	<b>A</b>
Water Retention & Mit.   139,520   x   130% (0 parcels who (RIW Acq   181,376   181,			" Dasign ,				
Substitute   1 and 14		x	130			181,376	
S. Admin. Settlements				SUBTOTAL (Lines	13 and 14)	<del>,,</del>	
Claims   C	ite (Factor	45%	x	30%	of Line 15)		Participation
8. Business Damages (Claims 0 x \$ 10 ) 0 Non-Partic. 9. Bus. Damages Incrs. (Factor 25½ x \$ 10 ) 0 Non-Partic. 9. Bus. Damages Incrs. (Factor 25½ x \$ 10,000 ) 0 Non-Partic. 9. Bus. Damages Incrs. (Factor 25½ x \$ 10,000 ) 0 Non-Partic. 1. Owner CPA Feas (Claims 0 x \$ 10,000 ) 0 Non-Partic. 1. Owner CPA Feas (Claims 16 + 17 + 18 + 19) x \$ 10,000 ) 0 Non-Partic. 2. Defend. Atty Feas (Lines 16 + 17 + 18 + 19) x \$ 10,000 ) 0 Non-Partic. 2. Defend. Atty Feas (Lines 16 + 17 + 18 + 19) x \$ 10,000 0 0 Non-Partic. 3. Owner Expert Witness (Businesses 0 + Unimproved 0 x \$ 18,000 0 0 Non-Partic. 4. Other Condemn. Costs (Parcels 0 x \$ SUBTOTAL (lines 16 thru 24) 141,000							
Bus. Damages Incrs.   (Factor   25%   x   10   )   0			x	<b>\$</b> 0	}		
0. Owner Appr. Fees	· .	25%	×	\$0	)		
1. Owner CPA Fees   (Claims   0   x   \$10,000   )		0	x	\$10,000	1		
20		D	x		)		
3. Dwner Expert Witheas   Charlets   Charl	s (Lines 16+17+18+1)	9}	x		)		
A. Uniter Condemin. Costs   Parcels   SUBTOTAL (lines 16 thru 24)   141,000	tness (Businesses		+	Unimproved			
Design contingency for design plan stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Outsign contingency for design plans stage:   Out	Costs (Parcels	0	X			· · ·	•
Design contingency for design plan stage:						TOTAL DUASE AT	
Page   Page			+ (Non-Pa	rticipating	40.300	HUINI FRASE 45	T 0 & 6.
Federal Air	y for design plan stage.	****	/21 CM/ ·	lane 1200/ /#1 0	ON plane . 11EM IEI C	768 Date - 110%	
			ם מישם וב	iaii5 · i ZU74 (4) 9:	uzebiena i i nize (n) v	.00 0010 - 11071	F 11 411
Replacement Housing   Number   Amount	ONSULTANT (PHASE 4	<b>\$</b> 2)			1400W P	TOTAL DUACE AC	rederal All
Replacement Housing   Number   Amount					(186% Participating)	MUTAL PRASE 42	
18. 0 wner   \$20,000   Per Unit   x   0   0   0   0   0   0   0   0   0				<u>.</u>			
3.					Ami		
Move Costs							
10   10   10   10   10   10   10   10		180 Per Unit	x	0		U	
1. Business Farm   \$20,000   Per Unit   x   0   0   10   10   10   10   10		00.00.00.00		^		0	
12. Personal Property   \$2,000 Per Unit   x   0     100% Participating     0% Participating   100% Partici							
100% Participating   TOTAL PHASE 45   100% Participating   TOTAL PHASE 45   100% Participating   100% Participat							
\$40,300   \$40,		100 Let Out	x	<u> </u>	(100% Participation)		
Appraisal: Mitchell Hammer   Signed:   More   Mor				<b>⊕</b> n		1010F11100F43	
19.   297,100   Participating   19.   19	ces Cost			*U			
Appraisal: Mitchell Hammer Signed: Mort Hammer Date: 10-26-99  Bus, Dam.: NIA Signed: Date: 10-26-99  Relocation: Mitchell Hammer Signed: Date: 10-26-99  Overall Review: Terry L. Dunn Signed: Date: 10-77/99							, -
Appraisal: Mitchell Hammer Signed: Moto W Date: 10-36-99  Bass. Dam.: N/A Signed: Date: 10-36-99  Belocation: Mitchell Hammer Signed: Date: 10-36-99  Overall Review: Terry L. Dunn Signed: Date: 10-27/99							
Relocation: Mitchell Hammer Signed: Date: 10-36-97 Overall Review: Terry L. Dunn Signed: Date: 10/27/19					(All Phases)	HUIALESTIMATE	
Bus. Dam.: N/A Signed: Date: 10-36-97 Relocation: Mitchell Hammer Signed: Date: 10-36-97 Overall Review: Terry L. Dunn Signed: Date: 10/27/99	tchell Hammer		Signed:	11/2/00 \$18	~	Date:	10-26-49
Relocation: Mitchell Hammer Signed: 15 Try L. Dunn Signed: Date: 10/27/79  Date: 10/27/79	AWARD TO A PROPERTY OF					Data:	
OVERAL REVIEW. TOTAL C. DELIN			Signeu:				
cost Estimate Sequence #: Dated: In the amount of \$ Data Input Completion Date:	A			Mit the		Date:	10-26-97
	A itcheil Hammer		Signad:	The the	72-	Date:	10/27/99
REMARKS:	A itcheil Hammer rry L. Dunn		Signad: Signad:	nount of \$	Data Input C	Date:	10-36-47
36. 37. Appraisal: Mi Bus, Dam. : Ni Relocation: Mi Overall Review: Te		(PHASE 41) (Parcels (Parcels (Parcels (Parcels (Parcels (Parcels (Parcels (Parcels (Parcels (Parcels (Parcels (Parcels (Parcels (Claims (Claims (Claims (Claims (Claims (Claims (Claims (Parcels	O   O   O   O   O   O   O   O   O   O	PHASE 41    Parcels   O   X     Parcels   O   X     Parcels   O   X     Parcels   O   X     O   O   X     O   O   X     O   O   X     O   O   X     O   O   X     O   O   X     O   O   X     O   O   X     O   O   X     O   O   O   X     O   O   O   O     O   O   O   O     O   O	Parcels	O   O   O   O   O   O   O   O   O   O	D

Comments:

The following indicates the Department's purpose for this estimate:
Work Program Update: X Special Purpose:

X Special Purpose:

#: 2550991				AY COST ESTIMA		PBS&J#:700149.06
	Former WP		7113826		District:	Seven
unty: Hills:/Pasco	FAP No.:		NIA		Date:	26-Oct-99
ate Rd.: 39	Alternate:		POND P2C		C.E. Sequence #:	NIA
oject Des. SR 39 from 1-4 to L				Estimated Re	incatees:	
rcels: Gross	Net 0 Count incl.	io mainlin	o narcel	Business		0
usiness 6- exidential 4-	4	111 113 <b>6</b> 13111111	t hareo	Residential		5
nimproved 0:	0			Signs		0
				Special		<u>0</u>
otal Parcels 4	4			Total Reloca	والمرابطة والمحرور والمراوي والمحاولة والمحاورين	Federal Aid
W SUPPORT COSTS (PHASE 41)			2.500	5t	Amount 26,000	Participating
Direct Labor Cost (Parc		X	6,500	Rate) Rate)	20,000	Participating
Indirect Overhead (Parc		x ion Partici	N/A	. O)	TOTAL PHASE 41	\$26,000
(Participating	20,000 / + (1)	olt i al tital	21076			Åmount
W OPS (PHASE 4B)				4 Parcels x	12,000	48,000 Participating
. Appraisal Fees Through Trial . Business Damage CPA Fees Thro	nugh Trisl			0 Claims x	19,000	8 Non-Partic.
. Court Reporter & Process Serve		x	4	: 3 Parcels x	500	1,500 Participating
Expert Witness	75%	X	4 ×	3 Parcels x	30,000	90,000 Participating 4,800 Participating
. Mediators	50%	x	4,	2 Parcels x	2,400 15,000	60,000 Participating
. Demolition, Asb. Abate., Survey,	, etc.			4 Imprvmt x Per Project	10,000	15,000 Participating
6. Miscellaneous Contracts				NIA Parcels x	5,000	0 Participating
1. Appraisal Fee Review 2. (Participating	219,300 ) + (	lon-Partici	pating :	= 0)	TOTAL PHASE 48	\$219,300
W LAND COSTS (PHASE 43)	2,0,000			Marketina and Carlo Carl	Amount	Subtotal
/w како созто (елизе ча) 3. Land, Improvements & Severan	ora DamanasiCost to C	LITA				
Amount (0)	x 130%	* Design p	lan stage		(0)	Participating
	38,878 ×	130%	(O parcels wio (R)		440,541	Participating
5.			SUBTOTAL (Line:	: 13 and 14)		440,541
6. Admin. Settlements (Fac	tor 45%	x	30%	of Line 15)	59,500	Participating
7. Litigation Awards (Fac		x	70%	of Line 15)	185,000	Participating
8. Business Damages (Clai		x	<b>\$</b> D	)	0	Non-Partic.
9. Bus. Damages Incrs. (Fac	*****	x	\$0	)	<u>0</u> 30,000	Non-Partic. Non-Partic.
O. Owner Appr. Fees (Par	***************************************	X	\$10,000 \$10,000	}	30,000	Non-Partic.
1. Owner CPA Fees (Cla 2. Defend. Atty Fees (Lines 16+1		x X	40%	/ 1	97,800	Non-Partic.
	inesses 0	+	Unimproved	0 ) x 18,000	0	Non-Partic.
	cels 4	x		\$500 }	2,000	Participating
24. Other Condemn. Costs (Par	1014	^			2,000	
24. Other Condemn. Costs   {Par 25.			SUBTOTAL (line	16 thru 24)		374,300
25. 26. (Participating	687,000 )	- + (Non-Par			TOTAL PHASE 43	
25. 26. (Participating * Design contingency for design po	687,000 )	+ (Non-Par	ticipating	16 thru 24) 127,800 )	TOTAL PHASE 43	374,300
25. 26. (Participating * Dasign contingency for dasign pi (1) PD&E plans · 130% (2)	687,000 ) lan stage: 30% plans - 125%	+ (Non-Par		16 thru 24) 127,800 )		374,300 #814,80
25. 26. (Participating * Design contingency for design pi (1) PD&E plans · 130% (2) RIW ACQUISITION CONSULTANT	687,000 ) lan stage: 30% plans - 125%	+ (Non-Par	ticipating	s 16 thru 24) 127,800 ) 0% pians - 115% (5) 20	TOTAL PHASE 43	374,300 \$814,80 Federal Aid
25. 26. (Participating * Dasign contingency for dasign p. (1) PD&E plans • 130% (2) RIW ACQUISITION CONSULTANT 27.	687,000 ) lan stage: 30% plans - 125%	+ (Non-Par	ticipating	16 thru 24) 127,800 )	TOTAL PHASE 43	374,300 \$814,80 Federal Aid
25. 26. (Participating * Design contingency for design po (1) PD&E plans - 130% (2) RIW ACQUISITION CONSULTANT 27. RELOCATION COSTS (PHASE 45)	687.000 ) lan stage: 30% plans - 125% ( (PHASE 42)	+ (Non-Par	ticipating 1905 - 120% (4) 9	s 16 thru 24) 127,800 ) 0% plans - 115% (5) 20 (100% Participating)	TOTAL PHASE 43  68 Dato · 110%  TOTAL PHASE 42	374,300 \$814,80
25. 26. (Participating * Design contingency for design po (1) PD&E plans · 130% (2) RIW ACQUISITION CONSULTANT 27. RELOCATION COSTS (PHASE 45) Replacement Hol	687,000 ) lan stege: 30% plans - 125% ( PHASE 42)	+ (Non-Par (3) 60% pla	ticipating ens - 120% (4) 9 Number	s 16 thru 24) 127,800 ) 0% plans - 115% (5) 20 (100% Participating)	TOTAL PHASE 43  SB Dato · 110%  TOTAL PHASE 42  unt	374,300 \$814,80 Federal Aid
25. (Participating  **Design contingency for design p.  **(1) PD&E plans - 130% (2)  **RIW ACQUISITION CONSULTANT  27.  **RELOCATION COSTS (PHASE 45)  **Replacement Hol  28. Owner	687,000 )  lan stage: 30% plans - 125% ( PHASE 42)  using \$20,000 Per Unit	+ (Non-Par <i>(3) 60% pla</i> x	ticipating 1905 - 120% (4) 9	s 16 thru 24) 127,800 ) 0% plans - 115% (5) 20 (100% Participating)	TOTAL PHASE 43  TOTAL PHASE 42  unt 00	374,300 \$814,80 Federal Aid
25. 26. (Participating * Design contingency for design po (1) PD&E plans · 130% (2) RIW ACQUISITION CONSULTANT 27. RELOCATION COSTS (PHASE 45) Replacement Hol	687,000 ) lan stege: 30% plans - 125% ( PHASE 42)	+ (Non-Par (3) 60% pla	ticipating ens - 120% (4) 9 Number	\$ 16 thru 24)	TOTAL PHASE 43  TOTAL PHASE 42  Interpretation of the control of t	374,300 \$814,80 Federal Aid
25. 26. (Participating * Dasign contingancy for design p. (1) PD&E plans · 130% (2) RIW ACQUISITION CONSULTANT 27. RELOCATION COSTS (PHASE 45) Replacement Hol 28. Owner 29. Tenant Move Costs	687.000 ) lan stage: 30% plans - 125% ( PHASE 42)  using \$20,000 Per Unit \$10,000 Per Unit	+ (Non-Par <i>(3) 60% pla</i> x	Number 4 1 5	16 thru 24) 127,800 ) 0% plans - 115% (5) 20 (100% Participating) Amol 80,0	TOTAL PHASE 43  TOTAL PHASE 42  TOTAL PHASE 42  unt 00 00	374,300 \$814,80 Federal Aid
25. 26. (Participating * Design contingency for design p. (1) PD&E plans · 130% (2) RIW ACQUISITION CONSULTANT 27. RELOCATION COSTS (PHASE 45) Replacement Hot 28. Owner 29. Tenant Move Costs 30. Residential 31. Business/Farm	687.000 ) lan stage: 30% plans - 125% (PHASE 42)  using \$20,000 Per Unit \$10,000 Per Unit \$10,000 Per Unit	+ (Non-Par (3) 60% pla x x x	Number 4 5 0	* 16 thru 24)  **127,800 )  **0% plans - 115% (5) 26  (100% Participating)  **Amon 80,0  **10,0  **7.5	TOTAL PHASE 43  TOTAL PHASE 42  TOTAL PHASE 42  unt 00 00 00	374,300 \$814,80 Federal Aid
25. (Participating  **Design contingency for design p.  **(1) PD&E plans - 130% (2)  **(2) PD&E plans - 130% (2)  **(2) PD&E plans - 130% (2)  **(2) PHASE 45)  **Replacement Hole  **28. Owner  **(29. Tenant Move Costs)  **(30. Residential)  31. Business/Farm  32. Personal Property	687.000 ) lan stage: 30% plans - 125% ( PHASE 42)  using \$20,000 Per Unit \$10,000 Per Unit	+ (Non-Par (3) 60% pla x x x	Number 4 1 5	* 16 thru 24)  **127,800 )  **0% plans - 115% (5) 24  (100% Participating)  **Amon 80,0    **10,0    **7.5	TOTAL PHASE 43  TOTAL PHASE 42  Unit  00  00  00  40	374,300 \$814,80 Federal Aid \$
25. 26. (Participating 26. (Participating 27. (Participating 28. (Participating 29. (Participating 27. (Phase 45) 28. Owner 29. Tenant 29. Tenant 20. Residential 31. Business/Farm 32. Personal Property 33. (Lines 28 thru 32)	687.000 ) lan stage: 30% plans - 125% (PHASE 42)  using \$20,000 Per Unit \$10,000 Per Unit \$10,000 Per Unit	+ (Non-Par (3) 60% pla x x x	Number 4 1 5 0 0	* 16 thru 24)  127,800 )  0% plans - 115% (5) 21  (100% Participating)  Amoi 80,0  10,0  7,5  (100% Participating)	TOTAL PHASE 43  TOTAL PHASE 42  TOTAL PHASE 42  unt 00 00 00	374,300 \$814,80 Federal Aid
25.  26. (Participating  27. Design contingency for design p. 28. (2) PD&E plans - 130% (2)  27. RELOCATION COSTS (PHASE 45)  28. Owner  29. Tenant  Move Costs  30. Residential  31. Business/Farm  32. Personal Property  33. (Lines 28 thru 32)  34. Relocation Services Cost	687.000 ) lan stage: 30% plans - 125% (PHASE 42)  using \$20,000 Per Unit \$10,000 Per Unit \$10,000 Per Unit	+ (Non-Par (3) 60% pla x x x	Number 4 5 0	\$ 16 thru 24) \$ 127,800 )  0% plans - 115% (5) 26  (100% Participating)  Amoi 80,0  10,0  7,5  (100% Participating) (Not in Phase Total)	TOTAL PHASE 43  TOTAL PHASE 42  Unit  OC  OC  TOTAL PHASE 42  Unit  OC  TOTAL PHASE 45	374,300 \$814,80 Federal Aid \$
25. 26. (Participating 26. (Participating 27. Dasign contingancy for design p. 27. (1) PD&E plans · 130% (2) 28. (WACQUISITION CONSULTANT 27. RELOCATION COSTS (PHASE 45) Replacement Hol 28. Owner 29. Tenant Move Costs 30. Residential 31. Business/Farm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost 35.	687.000 ) lan stage: 30% plans - 125% (PHASE 42)  using \$20,000 Per Unit \$10,000 Per Unit \$10,000 Per Unit	+ (Non-Par (3) 60% pla x x x	Number 4 1 5 0 0	* 16 thru 24)	TOTAL PHASE 43  TOTAL PHASE 42  Unit  00  00  10  TOTAL PHASE 45  No	374,300 \$814,80 Federal Aid \$
25. 26. (Participating * Dasign contingancy for dasign p. (1) PD&E plans · 130% (2)  RIW ACQUISITION CONSULTANT 27.  RELOCATION COSTS (PHASE 45) Replacement Hol 28. Owner 29. Tenant Move Costs 30. Rasidential 31. Business/Farm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost 35. 36.	687.000 ) lan stage: 30% plans - 125% (PHASE 42)  using \$20,000 Per Unit \$10,000 Per Unit \$10,000 Per Unit	+ (Non-Par (3) 60% pla x x x	Number 4 1 5 0 0	\$ 16 thru 24)	TOTAL PHASE 43  TOTAL PHASE 42  INTOTAL PHASE 42  INTOTAL PHASE 45  TOTAL PHASE 45  TOTAL PHASE 45	374,300  \$814,80  Federal Aid  \$97,50
25. 26. (Participating * Design contingancy for design p. (1) PD&E plans · 130% (2)  RIW ACQUISITION CONSULTANT 27.  RELOCATION COSTS (PHASE 45) Replacement Hol 28. Owner 29. Tenent Move Costs 30. Residential 31. Business/Farm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost 35. 36. 37.	687,000 )  lan stage: 30% plans - 125% ( PHASE 42)  using \$20,000 Per Unit \$10,000 Per Unit \$1,500 Per Unit \$20,000 Per Unit \$2,000 Per Unit	+ (Non-Par (3) 60% pla x x x	Number 4 1 5 0 0	* 16 thru 24)	TOTAL PHASE 43  TOTAL PHASE 42  INTOTAL PHASE 42  INTOTAL PHASE 45  TOTAL PHASE 45	374,300
25. 26. (Participating * Dasign contingancy for design p. (1) PD&E plans · 130% (2)  RIW ACQUISITION CONSULTANT 27.  RELOCATION COSTS (PHASE 45) Replacement Hol 28. Owner 29. Tenant Move Costs 30. Residential 31. Business/Farm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost 35. 36. 37.  Appraisal: Mitchell Hamme	687,000 )  lan stage: 30% plans · 125% ( PHASE 42)  using \$20,000 Per Unit \$10,000 Per Unit \$20,000 Per Unit \$20,000 Per Unit	+ (Non-Par (3) 60% pla x x x x	Number 4 1 5 0 0	\$ 16 thru 24)	TOTAL PHASE 43  TOTAL PHASE 42  INTOTAL PHASE 42  INTOTAL PHASE 45  TOTAL PHASE 45  Do Pai	374,300  \$814,80  Federal Aid  \$97,50
25. (Participating  **Design contingency for design p.	687,000 )  lan stage: 30% plans - 125% ( PHASE 42)  using \$20,000 Per Unit \$10,000 Per Unit \$20,000 Per Unit \$20,000 Per Unit \$2,000 Per Unit	+ (Non-Par (3) 60% pla x x x x x x Signed:	Number 4 1 5 0 0	\$ 16 thru 24)	TOTAL PHASE 43  TOTAL PHASE 42  INTOTAL PHASE 42  INTOTAL PHASE 45  TOTAL PHASE 45	374,300
25.  26. (Participating  27. Design contingency for design p. 27. (2)  27. RELOCATION COSTS (PHASE 45)  Replacement Hol  28. Owner  29. Tenant  Move Costs  30. Residential  31. Business/Farm  32. Personal Property  33. (Lines 28 thru 32)  34. Relocation Services Cost  35.  36.  37.  Appraisal:  Bus. Dam.:  NIA  Relocation:  Mitchell Hamme	687,000 )  lan stage: 30% plans - 125% ( PHASE 42)  using \$20,000 Per Unit \$10,000 Per Unit \$20,000 Per Unit \$20,000 Per Unit \$2,000 Per Unit	+ (Non-Par (3) 60% pla x x x x	Number 4 1 5 0 0	\$ 16 thru 24)	TOTAL PHASE 43  SB Dato · 110%  TOTAL PHASE 42  unt 00 00 0 10 TOTAL PHASE 45  TOTAL PHASE 45  OO No 00 Pai TOTAL ESTIMATE Date: Date:	374,300
25. (Participating  **Design contingency for design p.	687,000 )  lan stage: 30% plans - 125% ( PHASE 42)  using \$20,000 Per Unit \$10,000 Per Unit \$20,000 Per Unit \$20,000 Per Unit \$2,000 Per Unit	+ (Non-Par (3) 60% pla x x x x x Signed: Signed:	Number 4 1 5 0 0 49.750	\$ 16 thru 24) \$ 127,800 )  0% plans - 115% (5) 21  (100% Participating)  Amoi 80,0  10,0  7,5  (100% Participating) (Not in Phase Total)  127,8  1,029,8 (All Phases)	TOTAL PHASE 43  BB Dato · 110%  TOTAL PHASE 42  Unit  00  00  10  10  10  10  10  10  10  1	374,300

Comments:

The following indicates the Department's purpose for this estimate:
Work Program Update: X Special Purpose: \_\_\_\_X

Work Program Update:

FP#:   255U991   Former WP#:   F1320   Date:   2	even 6-Oct-99 JA Participating Participating Participating Participating Participating Participating Participating Participating Participating Participating Participating Participating Participating
County:   Hills. Pasco   FAP No.:   NIA   Date:   2   2   2   2   39   4   20   20   20   20   20   20   20	ederal Aid articipating Participating Non-Partic. Participating Participating Participating Participating Participating Participating Participating Participating
State Rd.: 39   Alternate: FUND F3P   Project Das. SR 39 from I-4 to US 301   Parcels: Gross   Net   Business   Description   Signs   Signs   Description   Signs   Signs   Description   Signs   Sign	ederal Aid Participating Participating Non-Partic. Participating Participating Participating Participating Participating Participating Participating
Parcels   Gross   Net   Substants   Subs	Participating Participating Participating Non-Partic. Participating Participating Participating Participating Participating Participating Participating Participating
Agrical Street   St	Participating Participating Participating Non-Partic. Participating Participating Participating Participating Participating Participating Participating Participating
Residential   O   O   O   O   O   O   O   O   O	Participating Participating Participating Non-Partic. Participating Participating Participating Participating Participating Participating Participating Participating
Unimproved   D	Participating Participating Participating Non-Partic. Participating Participating Participating Participating Participating Participating Participating Participating
Total Parcels	Participating Participating Participating Non-Partic. Participating Participating Participating Participating Participating Participating Participating Participating
Amount   A	Participating Participating Participating Non-Partic. Participating Participating Participating Participating Participating Participating Participating Participating
Direct Labor Cost   (Parcels   0   x   6,500   Rate)   0	Participating Participating Non-Partic. Participating Participating Participating Participating Participating Participating Participating
Control   Cont	Participating Non-Partic. Participating Participating Participating Participating Participating Participating
3. (Participating   0   + (Non-Participating	Participating Non-Partic. Participating Participating Participating Participating Participating Participating
A Appraisal Fees Through Trial   0 Parcels x   12,000   0	Non-Partic. Participating Participating Participating Participating Participating Participating Participating
4. Appraisal Fees Through Trial 5. Business Damage CPA Fees Through Trial 6. Court Reporter & Process Servers 75% x 0 = 0 Parcels x 12,000 0 6. Court Reporter & Process Servers 75% x 0 = 0 Parcels x 30,000 0 7. Expert Witness 8. Mediators 9. Demolition, Asb. Abate., Survey, etc. 9. Demolition, Asb. Abate., Survey, etc. 10. Miscellaneous Contracts 11. Appraisal Fee Review 12. (Participating 15,000) + (Non-Participating = 0) TOTAL PHASE 4B 12. (Participating 15,000) + (Non-Participating = 0) TOTAL PHASE 4B 13. Land, Improvements & Severance Damages/Cost to Cure Amount 0 x 130% *Design plan stage 0 14. Water Retention & Mit. 125,460 x 130% (0 parcels w/o IR/W Acq 163,098) 15. SUBTOTAL (Lines 13 and 14) 163.098	Non-Partic. Participating Participating Participating Participating Participating Participating Participating
5. Business Damage CPA Fees Inrodge Trial 6. Court Reporter & Process Servers 75% x 0 = 0 Parcels x 30,000 0 7. Expert Witness 75% x 0 = 0 Parcels x 30,000 0 8. Mediators 50% x 0 = 0 Parcels x 2,400 0 9. Demolition, Asb. Abate., Survey, etc. 10. Miscellaneous Contracts Per Project 15,000 0 11. Appraisal Fee Review 12. (Participating = 0) 10TAL PHASE 4B 12. (Participating 15,000) + (Non-Participating = 0) 10TAL PHASE 4B 13. Land, Improvements & Severance Damages/Cost to Cure Amount 0 x 130% * Design plan stage 0 14. Water Retention & Mit. 125,460 x 130% (0 parcels w/o IR/W Acq 163,098) 15. SUBTOTAL (Lines 13 and 14) 163,098	Participating Participating Participating Participating Participating Participating
5. Court Reporter & Process Servers   73/2   75/4	Participating Participating Participating Participating Participating
7. Expert Winds	Participating Participating Participating
9. Demolition, Asb. Abate., Survey, etc.  10. Miscellaneous Contracts 11. Appraisal Fee Review 11. Appraisal Fee Review 12. (Participating 15,000 ) + (Non-Participating = 0 ) TOTAL PHASE 4B  RIW LAND COSTS (PHASE 43) 13. Land, Improvements & Severance Damages/Cost to Cure Amount 0 x 130% * Design plan stage* 14. Water Retention & Mit. 125,460 x 130% (0 parcels w/o IR/W Acq 163,098) 15. SUBTOTAL (Lines 13 and 14) 15,000 0 0	Participating Participating
10. Miscellaneous Contracts	Participating
11. Appraisal Fee Review   15,000   + (Non-Participating = 0 )	
R/W LAND COSTS (PHASE 43)   Amount Subtotal	
13. Land, Improvements & Saverance Damages/Cost to Cure   13. Land, Improvements & Saverance Damages/Cost to Cure   2. Amount   0   x   130%   * Design plan stage   0	. 10100
Amount 0 x 130% * Design plan stage 0 14. Water Retention & Mit. 125,460 x 130% (0 parcels w/o  R/W Acq 163,098 15. SUBTOTAL (Lines 13 and 14) 163,098	
14. Water Retention & Mit.     125,460     x     130% (0 parcels w/o IR/W Acq     163,098       15.     SUBTOTAL (Lines 13 and 14)     163,098	Participating
15. SUBTOTAL (Lines 13 and 14) 163,098	Participating
The Annie Settlements (Factor 45% & 45% of the 70)	Participating
17. Litigation Awards (Factor 60% x 70% of Line 15) 68,500	Participating
18. Business Damages (Claims 0 ^ TO	Non-Partic. Non-Partic.
13. Dus. Daniages inicis. I actui	Non-Partic.
20. Dwner Appr. Fees   Percels   0 x \$10,600 }   U	Non-Partic.
22. Defend. Atty Fees (Lines 16+17+18+19) x 40% ) 36,200	Non-Partic.
23. Owner Expert Witness (Businesses 0 + Unimproved 0 ) x 18,000 0	Non-Partic.
24. Other Condemn. Costs (Percels 0 x \$500) 0 25. SUBTOTAL (lines 16 thru 24) 126,700	Participating
25.   SUBTOTAL (lines 16 thru 24)   126,700     26. (Participating   253,600 ) + (Non-Participating   36,200 )   TOTAL PHASE 43	\$289.8
* Design contingency for design plan stage:	************
(1) PD&E plans 130% (2) 30% plans 125% (3) 60% plans 120% (4) 90% plans 115% (5) 268 Date 110%	
RIW ACQUISITION CONSULTANT (PHASE 42)	Federal Aid
27. (100% Participating) ITOTAL PHASE 42	
RELOCATION COSTS (PHASE 45)	
Replacement Housing Number Amount	
28. Owner \$20,000 Per Unit x 0 0 29. Yenant \$10,000 Per Unit x 0 0	
Move Costs	
30. Residential \$1,500 Per Unit x 0	
31. Business/Farm \$20,000 Per Unit x 0	
32. Personal Property \$2,000 Per Unit x 0 \$0 33. (Lines 28 thru 32) (100% Participating)   TOTAL PHASE 45	
33. (Lines 28 thru 32)   TU AL PHASE 45   134. Relocation Services Cost   40 (Not in Phase Total)	
35. 36,200 Non-Participating 36. 268,600 Participating	
37. (All Phases) ITOTAL ESTIMATE	<b>\$304.8</b>
Appraisal: Mitchell Hammer Signed: // Volu 72 Date: /0-/6	~ YY
	T 70 T
Bus. Dam.: N/A Signed: Date:	-77
Relocation: Mitchell Hammer Signed: Date: 10-26:	100
Relocation: Mitchell Hammer Signed: Date: 0-76.  Overall Review: Terry L. Dunn Signed: Date: 0-72.7.	195
Relocation: Mitchell Hammer Signed: The Date: 10-76.  Overall Review: Terry L. Dunn Signed: Date: 10/27  Cost Estimate Sequence #: Dated: In the amount of \$ Data Input Completion Date:	199
Relocation: Mitchell Hammer Signed: Date: Overall Review: Terry L. Dunn Signed: Date: Overall Review: Terry L. Dunn Date: Date	199
Relocation: Mitchell Hammer Signed: Date: 0-76.  Overall Review: Terry L. Dunn Signed: Date: 0/2.7.  Cost Estimate Sequence #: Dated: In the amount of \$ Data Input Completion Date:	199
Relocation: Mitchell Hammer Signed: The Date: Overall Review: Terry L. Dunn Signed: Date: Overall Review: Terry L. Dunn Date: Overall Review: Date: Overall Review: Date: Date: Overall Remarks:	195
Relocation: Mitchell Hammer Signed: The Date: Overall Review: Terry L. Dunn Signed: Date: Overall Review: Terry L. Dunn Date: Overall Review: Date: Overall Review: Date: Date: Overall Remarks:	195
Relocation: Mitchell Hammer Signed: The Date: Overall Review: Terry L. Dunn Signed: Date: Overall Review: Terry L. Dunn Date: Overall Review: Date: Overall Review: Date: Date: Overall Remarks:	195
Relocation: Mitchell Hammer Signed: The Date: Overall Review: Terry L. Dunn Signed: Date: Overall Review: Terry L. Dunn Date: Overall Review: Date: Overall Review: Date: Overall Review: Date: Overall Remarks:	195
Relocation: Mitchell Hammer Signed: The Date: Overall Review: Terry L. Dunn Signed: Date: Overall Review: Terry L. Dunn Signed: Date: Overall Review: Terry L. Dunn Date: Overall Residue Sequence #: Dated: In the amount of \$ Data Input Completion Date: REMARKS:	1.95
Relocation: Mitchell Hammer Signed: Date: 0-6.  Overall Review: Terry L. Dunn Signed: Date: 0/2.7.  Cost Estimate Sequence #: Dated: In the amount of \$ Date Input Completion Date: REMARKS:	195

1 }

The following indicates the estimator's confidence in the above estimate:	future Value Factors 📵	10.0%
Type A - indicates the most confidence	One Year:	1.1000
Type B - indicates above average confidence	Two Years:	1.2100
X Type C · indicates below average confidence	Three Years:	1.3310
Type D - indicates the least or no confidence	Four Years:	1.4641
	Five Years:	1.6105
The following indicates the Department's purpose for this estimate:		
Work Program Update: X Special Purpose: Comments	r:	

		VEN RIGHT OF V	VAY COST ESTIMA	16	P8S&J#:700149.06
#: 2550991	Former WPI#:	7113826		District:	Seven
#; 2550551 unty: Hills.JPasco	FAP No.:	NIA		Date:	29-Nov-99
ate Rd.: 39	Alternate:	POND P4A		C.E. Sequence #:	N/A
pject Des. SR 39 from I-4 to US 301			Estimated Re	locatoos:	
rcels: Gross Net			Estimateu ne Business	nocatees.	0
siness 0	1		Residential	<del></del>	2
sidential 1 improved 0	<del>'</del> 0		Signs	<del>-</del>	0
insproved	<del></del>		Special		0
tal Parcels 1	1		Total Reloca	and the second s	<u>د</u>
W SUPPORT COSTS (PHASE 41)				Amount	Federal Aid Participating
Direct Labor Cost (Parcels	1 x	6,500	Rate)	6,500 D	Participating
Indirect Overhead (Parcels	1 x	NIA	Rate) = 0)	TOTAL PHASE 41	\$6,50
th articipating	500 ) + (Non-Par	ticipating =	. 01		Amount
W OPS (PHASE 48)			1 Parcels x	12,000	12,000 Participating
Appraisal Fees Through Trial			D Claims x	19,000	0 Non-Partic.
Business Damage CPA Fees Through Tr Court Reporter & Process Servers	75% x	1 :	= 1 Parcels x	500	500 Participating
Expert Witness	75% ×	1	= 1 Parcels x	30,000	30,000 Participating
Mediators	50% ×	1 :	= 1 Parcels x	2,400	2,400 Participating
Demolition, Asb. Abate., Survey, etc.	<del></del>		2 Imprymt x	15,000	30,000 Participating 15,000 Participating
). Miscellaneous Contracts			Per Project	5.000	0 Participating
1. Appraisal Fee Review			N/A Parcels x = 0 )	TOTAL PHASE 4B	\$89.90
	900 ) + (Non-Pa	rticipating	= U 1		Subtotal
W LAND COSTS (PHASE 43)				Amount	Suprova
3. Land, Improvements & Severance Dam	ages/Cost to Cure	wlaw adama		0	Participating
Amount 0 x 4. Water Retention & Mit. 196,589		<i>gn plan stage</i> 30% (0 parcels wjo JR	IW Arn	255,566	Participating
4. Water Retention & Mit. 196,589 5.	^ <u></u>	SUBTOTAL (Line			255,566
	454			34,500	Participating
6. Admin. Settlements (Factor	45% x	30% 70%	of Line 15) of Line 15)	107,300	Participating
7. Litigation Awards (Factor 8. Rusiness Damages (Claims	60% x	\$0	() Faue 12)	0	Non Partic.
8. Business Damages (Claims 9. Bus, Damages Incrs. (Factor	25% x	\$0	)	0	Non-Partic.
O. Owner Appr. Fees (Parcels	1 x	\$10,000	)	10,000	Non-Partic.
1. Owner CPA Fees (Claims	0 x	\$10,000	)	0	Non Partic.
2. Defend. Atty Fees (Lines 16+17+18+		40%	)	56,700	Non-Partic. Non-Partic.
3. Owner Expert Witness (Businesses		Unimproved	0 ) x 18,000 \$500 )	<u>0</u> 500	Participating
4. Other Condemn. Costs (Parcels	1 x	SUBTOTAL (line		300	209.000
5. 6. (Participating 397,	,990 ) + (Non-	Participating	66,700 )	TOTAL PHASE 43	\$464,6
Design contingency for design plan stag		t at tro-patring		Maduli Alas es serrendos como cubili-	ina alabah 1975-ya menerahan dari Kabupatèn Kabupatèn Bandara (Kabupatèn Bandara).
(1) PD&E plans - 130% (2) 30% pl	ans 125% (3) 60%	% plans - 120% (4) S	10% plans - 115% (5) 26	18 Date - 110%	
W ACQUISITION CONSULTANT (PHASE	42)				Federal Aid
7. ELOCATION COSTS (PHASE 45)			(100% Participating)	TOTAL PHASE 42	
Replacement Housing		Number	Amoi	unt	
	,000 Per Unit x	1	20,0		
9. Tenant \$10	,000 Per Unit x	1	10,0	00_	
Move Costs			2.0	00	
	,500 Per Unit x	2	3,0	0	
	,000 Per Unit x ,000 Per Unit x	0		\$0	
32. Personal Property \$2	,000 rei uiiit x		(100% Participating)	TOTAL PHASE 45	\$33.0
12 (Lines 20 thru 22)					and the second section of the second
13. (Lines 28 thru 32) 14. Relocation Services Cost		\$3,300	(Not in Phase Total)	.,	
34. Relocation Services Cost	<u></u>	\$3,300	(Not in Phase Total)	. , . ,	Von-Participating
34. Relocation Services Cost 35.		\$3,300		80	Participating
34. Relocation Services Cost		\$3,300	(Not in Phase Total) 66,7	80	Participating
34. Relocation Services Cost 35. 36. 37.	Signed		(Not in Phase Total) 66,7 527,3	8 <u>0</u>	Participating
34, Relocation Services Cost 35. 36.	Signed Signed Signed	: Joyal Ha	(Not in Phase Total) 66,7 527,3	80 00 Total Estimate	Participating \$594,0
34. Relocation Services Cost 35. 36. 37. Appraisal: Mitchell Hammer Bus. Dam. : N/A Relocation: Mitchell Hammer	Signed Signed	Total Ha	(Not in Phase Total) 66,7 527,3	00 TOTAL ESTIMATE Date: Date: Date:	Participating \$594,0
34. Relocation Services Cost  35. 36. 37.  Appraisal: Mitchell Hammer  Bus. Dam.: N/A	Signed Signed Signed	Total Ha	(Not in Phase Total)  66.7  527,3  (All Phases)	00 00 TOTAL ESTIMATE Date:	Participating \$594,0

The following indicates the Department's purpose for this estimate:

Work Program Update:

X Special Purpose:

Five Years:

Comments:

1.4641 1.6105

unty: H	55,000	erganian (sagarata artis		Committee and the second	Charles and the second and address and the	WAY COST ESTIN		PBS&J#:700149.06
unty: H	CC0004						0	
	550991		Former W	<b>₩</b> :	7113826		District: Date:	Seven 26-Oct-99
ate Rd.: 3	lills./Pasco		FAP No.:		N/A		C.E. Sequence #:	N/A
	9		Alternate:		POND P4C		о.ь. общоство и.	
	SR 39 trom 1-					Estimated	Relocatees:	
rcels:	Gross	Net	7			Business		<u>D</u>
isiness	0	1				Residentia		0
sidential simproved	0		į.			Signs		0
inihi nasa —			<del>-</del>			Special		0
tal Parcels	D.;	(	)			Total Relo	cateos	0
W SUPPORT CO	STS IPHASE	A1)	Same of the State	energene entre del		2004-2004-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Amount	Federal Aid
Direct Labor Co		Parceis	0	x	6,500	Rate)	0	Participatin
Indirect Overhe		Parcels	0	X	N/A	Rate)	0	Participatin
(Participating	•		0 ) + (1	ion-Partici	pating	= 0)	TOTAL PHASE 41	
W OPS IPHASE	4R)					<u>an an an tao an an an aire dhearan an u>		Amount
Appraisal Fees		al				0 Parcels x	12,000	0 Participatio
Business Dama						0 Claims x	19,000	D Non-Partic.
Court Reporter			75%	X	0	= 0 Parcels x	500	G Participatir
Expert Witness			75%	x	G	⇒ 0 Parcels x	30,000	0 Participatir
Mediators			50%	X	0	= 0 Parcels x	2,400	0 Participatir
Demolition, As	b. Abate., Su	rvey, etc.				0 imprvmt :		0 Participatir
). Miscellaneous	Contracts					Per Proje		15,000 Participatir
1. Appraisal Fee				_		N/A Parcels x		0 Participatio
?. (Participating		15,00	D) + {	Non-Partic	pating	= 0)	TOTAL PHASE 48	
W LAND COSTS	(PHASE 43)						Amount	Subtotal
i. Land, Improve		erance Damao	jesiCost to (	ure				
Amount	0	X	130%	* Design p	ilan stage		0	Participati
I. Water Retent		72,525	X		(0 parcels wie /R		94,283	Participati
i.			-		SUBTOTAL (Line	s 13 and 14)		94,283
5. Admin, Sattle		(Factor	45%	x	30%	of Line 15)	12,700	Participati
		(Factor	60%	x	70%	of Line 15)	39,600	Participati
7. Litigation Aw		(Claims	0070	x	\$0	)	0	Non-Partic
		(Factor	25%	x	<b>\$</b> 0	j	0	Non-Partic
	. incre		2070	X	<b>\$10,090</b>	i	0	Non-Partic
l. Bus. Damages			0				Ų	
l. Bus. Damages ). Owner Appr.	Fees	(Parcels	<u> </u>			·	0	
3. Bus. Damages ). Owner Appr. I. Owner CPA F	Fees ees	(Parcels (Claims	0	x	\$10,000 40%	; }		Non-Partic
9. Bus. Damages 0. Owner Appr. 1, Owner CPA F 2. Detend. Atty	Fees ees Fees (Lines 1	(Parcels (Claims 6+17+18+19	0		<b>\$10,000</b>	) ) 0 ) x 18,00	0 20,900	Non-Partic Non-Partic
9. Bus. Damages 0. Owner Appr. 1. Owner CPA F 2. Defend. Atty 3. Owner Experi	Fees ees Fees (Lines 1 t Witness	(Parcels (Claims 6+17+18+19 (Businesses	0	x x	\$10,000 40%	0 ) x 18,00	0 20,900	Non-Partic Non-Partic Non-Partic Participati
8. Business Dam 9. Bus. Damages 0. Owner Appr. 1. Owner CPA F 2. Defend. Atty 3. Owner Expert 4. Other Conden 5.	Fees ees Fees (Lines 1 t Witness	(Parcels (Claims 6+17+18+19	0	х х +	\$10,000 40%	\$580 ) \$ 16 thru 24)	20,900 0 0	Non-Partic Non-Partic Non-Partic Participati 73,200
9. Bus. Damages 0. Owner Appr. 1, Owner CPA F 2. Defend. Atty 3, Owner Expert 4. Other Conden	Fees ees Fees (Lines 1 t Witness nn, Costs	(Parcels (Claims 6+17+18+19 (Businesses	0 0	х х +	\$10,000 40% Unimproved SUBTOTAL (line	\$500 )	0 20,900 0	Non-Partic Non-Partic Non-Partic Participati
9. Bus. Damages 0. Owner Appr. 1, Owner CPA F 2. Defend. Atty 3. Owner Expert 4. Other Conden 5. 6. (Participating) Design contings	Fees ees Fees (Lines 1 t Witness nn, Costs g ency for desi	(Parcels (Claims 6+17+18+19 (Businesses (Parcels  146.60 gn plan stage:	0 0 0	x + x + {Non-Par	\$10,000 40% Unimproved SUBTOTAL (line ticipating	\$500 ) \$ 16 thru 24) 20,900 )	0 20,900 0 0 0 0 TOTAL PHASE 43	Non-Partic Non-Partic Non-Partic Participati 73,200
9. Bus. Damages 0. Owner Appr. 1. Owner CPA F 2. Defend. Atty 3. Owner Expert 4. Other Conden 5. 6. (Participating (1) PD&E ps	Fees ees Fees (Lines 1 t Witness nn. Costs g ency for desi lans - 130%	(Parcels (Claims 6+17+18+19 (Businesses (Parcels 146,60 gn pian stage: (2) 30% pian	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x + x + {Non-Par	\$10,000 40% Unimproved SUBTOTAL (line ticipating	\$500 ) \$ 16 thru 24) 20,900 )	20,900 0 0	Non-Partic Non-Partic Non-Partic Participati 73,200
9. Bus. Damages 0. Owner Appr. 1. Owner CPA F 2. Defend. Atty 3. Owner Expert 4. Other Conden 5. 6. (Participating (1) PD&E ps	Fees ees Fees (Lines 1 t Witness nn. Costs g ency for desi lans - 130%	(Parcels (Claims 6+17+18+19 (Businesses (Parcels 146,60 gn pian stage: (2) 30% pian	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x + x + {Non-Par	\$10,000 40% Unimproved SUBTOTAL (line ticipating	\$500 ) \$ 16 thru 24) \$ 20,900 )  90% plans - 115% (5)	0 20,900 0 0 0 0 TOTAL PHASE 43 268 Date · 110%	Non-Partic Non-Partic Non-Partic Participati 73,200
9. Bus. Damages 0. Owner Appr. 1. Owner CPA F 2. Defend. Atty 3. Owner Expert 4. Other Conden 5. 6. (Participating Design contings	Fees ees Fees (Lines 1 t Witness nn. Costs g ency for desi lans - 130%	(Parcels (Claims 6+17+18+19 (Businesses (Parcels 146,60 gn pian stage: (2) 30% pian	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x + x + {Non-Par	\$10,000 40% Unimproved SUBTOTAL (line ticipating	\$500 ) \$ 16 thru 24) 20,900 )	0 20,900 0 0 0 0 TOTAL PHASE 43	Non-Partic Non-Partic Non-Partic Participati 73,200
9. Bus. Damages 0. Owner Appr. 1. Owner CPA F 2. Defend. Atty 3. Owner Expert 4. Other Conden 5. 6. (Participating (1) PD&F pi IW ACQUISITIO 7.	Fees Fees (Lines 1 t Witness nn. Costs  g ency for desi lans - 130% N CONSULT	(Parcels (Claims 6+17+18+19 (Businesses (Parcels 146,60 gn plan stage: (2) 30% plan ANT (PHASE 4)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x + x + {Non-Par	\$10,000 40% Unimproved SUBTOTAL (line ticipating	\$500 ) \$ 16 thru 24) \$ 20,900 )  80% plans - 115% (5)  (100% Participating)	0 20,900 0 0 TOTAL PHASE 43 268 Date - 110%	Non-Partic Non-Partic Non-Partic Participati 73,200
9. Bus. Damages 0. Owner Appr. 1. Owner CPA F 2. Defend. Atty 3. Owner Expert 4. Other Conden 5. 6. (Participating (1) PD&F pu  W ACQUISITIO	Fees Fees (Lines 1 t Witness nn. Costs  g ency for desi lans - 130% N CONSULT	(Parcels (Claims 6+17+18+19 (Businesses (Parcels 146,6( gn plan stage: (2) 30% plan ANT (PHASE 4: 45) t Housing	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x + x + {Non-Par	\$10,000 40% Unimproved SUBTOTAL (line ticipating	\$500 ) \$ 16 thru 24) 20,900 ) 90% plans - 115% (5) (100% Participating)	0 20,900 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Non-Partic Non-Partic Non-Partic Participati 73,200
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9. Bus. Damages 0. Owner Appr. 1. Owner CPA F 2. Defend. Atty 3. Owner Experi 4. Other Conden 5. 6. (Participatini Design contings (1) PD&F pi W ACQUISITIO 7. ELOCATION CO 8. Owner 9. Tenant 0. Residential 1. Business/Far	Fees ees Fees (Lines 1 t Witness nn. Costs g ancy for desi lans : 130% N CONSULT STS (PHASE Replacemen Move Costs	(Parcels (Claims 6+17+18+19 (Businesses (Parcels 146,66 gn plan stege: (2) 30% plan NT (PHASE 4: 45) t Housing \$20.01 \$10.01	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x x + x + {Non-Par (3) 60% pl x x x	\$10,000 40% Unimproved SUBTOTAL (line ticipating ans - 120% (4) 5	\$500 } \$ 16 thru 24) 20,900 } 90% plans - 115% (5) (100% Participating)	20,900 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Non-Partic Non-Partic Non-Partic Participati 73,200
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I. Bus. Damages J. Owner Appr. J. Owner CPA F C. Defend, Atty J. Owner Experi J. Other Conden J. Other Conden J. Oraricipatin Design contings (1) PD&F pi W ACQUISITIO J. Owner J. Tenant J. Business/Far L. Personal For J. Residential J. Business/Far L. Personal For J. Relocation S J. (Lines 28 thr Relocation S J. Relocation S J. Conden J. Relocation S J. Conden J. Relocation S J. Conden J. Design Conden J. Conden	Fees ees Fees (Lines 1 t Witness nn. Costs  g ency for dezi lans - 130% N CONSULT  STS (PHASE Replacemen  Move Costs m perty u 32)	(Parcels (Claims 6+17+18+19 (Businesses (Parcels 146,66 gn plan stege: (2) 30% plan NT (PHASE 4: 45) t Housing \$20.01 \$10.01	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x x + x + {Non-Par (3) 60% pl x x x	\$10,000 40% Unimproved SUBTOTAL (line ticipating ens - 120% (4) ±  Number 0 0 0 0	4580 ) s 16 thru 24) 20,980 ) 90% plans - 115% (5) (100% Participating) An (100% Participating) (Not in Phase Total)	20,900 0 10 10 10 10 10 10 10 10 10 10 10 10	Non-Partic Non-Partic Participating orticipating \$18
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B. Bus. Damages D. Owner Appr. Downer CPA F Defend. Atty Gomer Expert Design conting (1) PD&F p ACQUISITIO RELOCATION CO B. Owner D. Residential Business/Far Personal Pro J. Lines 28 thr Relocation S 5.	Fees ees Fees (Lines 1 t Witness nn. Costs g ency for desi lans - 130% N CONSULT  STS (PHASE Replacemen  Move Costs m perty u 32) ervices Cost  Mitchell Ha NIA  Mitchell Ha	(Parcels (Claims 6+17+18+19 (Businesses (Parcels 146.66 gn plan stege: (2) 30% plan NT (PHASE 4: 45) t Housing \$20.00 \$10.00 \$1.55 \$20.00 \$2.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x x + 1	\$10,000 40% Unimproved SUBTOTAL (line ticipating ens - 120% (4) ±  Number 0 0 0 0	4500 ) s 16 thru 24) 20,900 ) 90% plans - 115% (5) (100% Participating) (100% Participating) (Not in Phase Total) (All Phases)	0 20,900 0 0 0 10TAL PHASE 43 268 Date - 110% 10TAL PHASE 42 100Unt 0 0 0 0 10 0 0 30 10TAL PHASE 45 1,900 No.,600 Pa	Non-Partic Non-Partic Participating orticipating \$18

The following indicates the Department's purpose for this estimate:
Work Program Update:
X Special Purpose:

Four Years: Five Years:

Comments:

1.6105

#: 2550					AY COST ESTIMA	t h.	PBS&J#:700149.06
	1001	Former WPI	Commence of the Commence of th	7113826	and the second s	District:	Seven
unty: Hills	/Pasco	FAP No.:		NIA		Date:	26-Oct-99 N/A
ate Rd.: 39	,	Alternate:		POND P5B		C.E. Sequence #:	MIN
	9 from 1-4 to US 301				Estimated Re	locatees:	
***************************************	iross Net	0			Business		5
sidential		<del>0</del>			Residential		0
nimproved	0	0			Signs		0
					Special Total Relocat		2
ital Parcels	0	0	e glane skriver	19-19-19-19-19-19-19-19-19-19-19-19-19-1	1013) nelocal	a distribution of the fifty to be a series of the	Federal Aid
W SUPPORT COST:		_		6 500	Rate)	Amount 0	Participating
Direct Labor Cost	(Parcels	0	X X	6,500 N/A	Rate)		Participating
Indirect Overhead	{Parcels		x en-Partici;		0 )	TOTAL PHASE 41	\$
(Participating		U / T \/**	0,11 41 1101	rating			Amount
W DPS (PHASE 4B)					0 Parcels x	12,000	0 Participating
Appraisal Fees The	rough Trial CPA Fees Through Tria	»1			0 Claims x	19,000	0 Non-Partic.
Court Reporter &		75%	x	0 =	0 Parcels x	500	0 Participating
Expert Witness		75%	x	0 =	0 Parcels x	30,000	0 Participating
Mediators		50%	x	0 =	0 Parcels x	2,400	0 Participating 0 Participating
Demolition, Asb. A	lbate., Survey, etc.				0 Impromt x	15,000	15,000 Participating
O. Miscellaneous Co					Per Project N/A Parcels x	5,000	0 Participating
1. Appraisal Fee Re		100) + (N	on-Partici	nating =	0 1	TOTAL PHASE 4B	\$15,00
2. (Participating	The second secon	וטטן ∓ (וטטן	on-rartici	Paring		Amount	Subtotal
W LAND COSTS IP	HASE 43)	10				Millongs	
	nts & Severance Dama	ages/Cost to Ci 130%	sce * Design p	lan stana		0	Participating
Amount 4. Water Retention	0 x & Mit. 678,400	130% X		ion staye (O parcels w/o /R/)	N Acq	881,920	Participating
4. Water Hetention 5.	or mil. 070,400	^	100/	SUBTOTAL (Lines			881,920
		450	_	30%	of Line 15)	119,100	Participating
6. Admin. Settlemer		45% 60%	x x	70%	of Line 15)	370,400	Participating
7. Litigation Award 8. Business Damag		00%	x	\$0	)	0	Non-Partic.
8. Business Damagi 9. Bus. Damages In	•	25%	x	\$0	}	0	Non-Partic.
0. Owner Appr. Fee		0	x	\$10,000	Y	0	Non Partic
1, Owner CPA Fees	(Claims	0	x	\$10,080	)	0	Non-Partic.
2. Defend. Atty Fee	s (Lines 16+17+18+1		x	40%	)	195,800	Non-Partic. Non-Partic.
3, Owner Expert W	itness (Businesses	<u> </u>	+	Unimproved	0 } x 18,000	<u>0</u>	Non-Partic. Participating
4. Other Condemn.	Costs (Parcels		x	SUBTOTAL (lines	\$500 ) 16 thru 24)	U	685,300
26.	1,371,4	400 \	(Non-Par		195,800 )	TOTAL PHASE 43	\$1,567,2
26. (Participating * <i>Design continuent</i>	y for design plan stage		, ¢15 1 131			50000 Carrier - 1	
(1) PD&E plan:	s · 130% (2) 30% pla	nos 125% (	3) 60% pla	ene 120% /41 9/	20/ 1154/ (5) 26		
117 / 444 / 1111	1 - 130/2 12/ 00/2 0/2	1,000 14477	, o, p,	2/13 - (2.07) 14/ 30	0% plans - 115% (5) 26	8 Data - 110%	A. C. Mariana, 19
	ONSULTANT (PHASE			293 - 72078 147 30	)% pians - (13% (3) 20		Federal Aid
RIW ACQUISITION C				273 - 1207   17/ 30	(100% Participating)	TOTAL PHASE 42	Federal Aid
RIW ACQUISITION C 27.	CONSULTANT (PHASE			14/ 30	(100% Participating)	TOTAL PHASE 42	
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Comments:

The following indicates the Department's purpose for this estimate:
Work Program Update:
X Special Purpose:



engineering construction pperations 1715 North Westshore Boulevard, Suite 875 Tampa, Florida 33607 Tel: 813 281-2900 Fax: 813 288-8787

July 28, 1998

Ms. Pauline Baker United States Army Corps of Engineers P.O. Box 19247 Tampa, Florida 33686-9247

Subject: Pistol Range Regional Stormwater Treatment Facility Section 19 and 20, Township 28 South, Range 22 East

Plant City, Florida, Hillsborough County

COE #199704025

Dear Ms. Baker:

Attached for your review are the proposed construction plans (Figures 1 through 11) for the Pistol Range Regional Stormwater Treatment Facility located in the City of Plant City. The attached drawings show delineated wetland areas reviewed in the field by Peter Bottone (Peninsula Design & Engineering, Inc.) and Edward Craig (SWFWMD) on August 12, 1997 and Eric Summa (USACOE) on October 9, 1997 as well as proposed impacts. A summary of surface water and wetland impacts is shown in the attached Table 1. Also attached is a Wetland/Biological Assessment of the Pistol Range site by Peninsula Design & Engineering, Inc. (Attachment A) which includes copies of correspondence with the U.S. Army Corps of Engineers, the Southwest Florida Water Management District (SWFWMD), U.S. Fish and Wildlife Service and the State of Florida Division of Historic Resources in the appendix. A summary of the Pistol Range project is given below.

Stormwater management to help restore and protect Lake Thonotosassa is a major challenge confronting Plant City, Hillsborough County and SWFWMD. Lake Thonotosassa is a priority surface water body of regional or statewide significance, which requires restoration or protection under the Surface Water Improvement and Management (SWIM) Act.

The only inlet to stream to Lake Thonotosassa is Baker Creek. Pemberton Creek is a tributary to Baker Creek, draining the western portion of Plant City through the Westside Canal, Mill Creek and Spartman Branch. The Westside Canal flows south to north, west of the Central Business District of Plant City. The Westside Canal, approximately 0.7 miles north of Interstate 4, changes names to Mill Creek and then to Pemberton Creek at Wallace Branch Road.

SWFWMD has defined critical areas where the greatest improvement in water resources can be obtained for the least investment in best management practices (BMPs). The highest priority has been placed on the urban areas in and around Plant City. The Pistol Range Regional Stormwater Treatment Facility is a proposed SWFWMD Cooperative project with the City of Plant City. The goal is to facilitate improvements to water quality in Lake Thonotosassa that may be attributable to stormwater contributions and associated nutrient loads flowing to the lake via the Westside Canal.

Ms. Pauline Baker July 28, 1998 Page 2

The Pistol Range property is a 29.7 acre site owned by the City of Plant City. The property is located at the west end of Cason Street approximately 0.6 miles north of Interstate 4 and 0.6 miles west of State Road 39. The project site abuts Cork Prairie to the west, wetlands associated with Mill Creek to the north, a residential neighborhood to the east, and forested uplands and wetlands to the south. The Westside Canal bisects the project site in a north-south direction, flowing north until its confluence with Mill Creek. Located within the interior portions of the site are three excavated water bodies that are former borrow pits. The ponds are immediately adjacent to the Westside Canal and have a total area of 14.7 acres.

The Westside Canal is the primary drainage channel for approximately 3 square miles upstream of the Pistol Range property. The purpose of the Pistol Range project is to treat stormwater runoff contributed by the Westside Canal for water quality improvement and enhancement of natural habitat.

The project uses the existing property boundary. Pond area will be increased to 18.2 acres to maximize the possible treatment area and create littoral zones. A ditch-block weir will be placed approximately 500 feet north of Cason Street in the Westside Canal. The water from the Westside Canal will enter the treatment ponds on the east and west side of canal through excavated channels. The water will then be routed by surface flow across large expanses of emergent wetlands (littoral shelf). Water fluctuation in the system will vary between the NWL (NIP) of 102.5 ft-NGVD and the DTW (SHW) of 104.0 ft-NGVD. Outfall structures discharge just downstream of the ditch-block weir. The 48-inch CMP under Cason Street will be replaced with two 48-inch RCPs.

In addition to the emergent wetlands, both palustrine mixed hardwood and cypress wetland habitats will also be created in the system to diversify the ecological function of the system. A total of 8.00 acres of planted wetland habitats are proposed and will consist of 6.62 acres of palustrine emergent (PEM1/2) wetlands, 1.01 acres of palustrine hardwood wetlands (PFO1/3, 7-gallon potted red maple, black gum and American elm trees with a soft-rush understory) and 0.37 acres of palustrine deciduous (cypress - PFO2) wetlands. Detailed plans, typical cross-sections and planting specifications are contained in the attached figures.

We appreciate your attention to this project. If you have any questions regarding the information submitted or need additional information please do not hesitate to contact me.

Sincerely,

CAMP DRESSER & McKEE INC.

John B. Adams, Jr.

cc: Kathy Burke, City of Plant City JoAnn Macrina, SWFWMD Blake Guillory, CDM

Peter Bottone, Peninsula Design & Engineering, Inc.

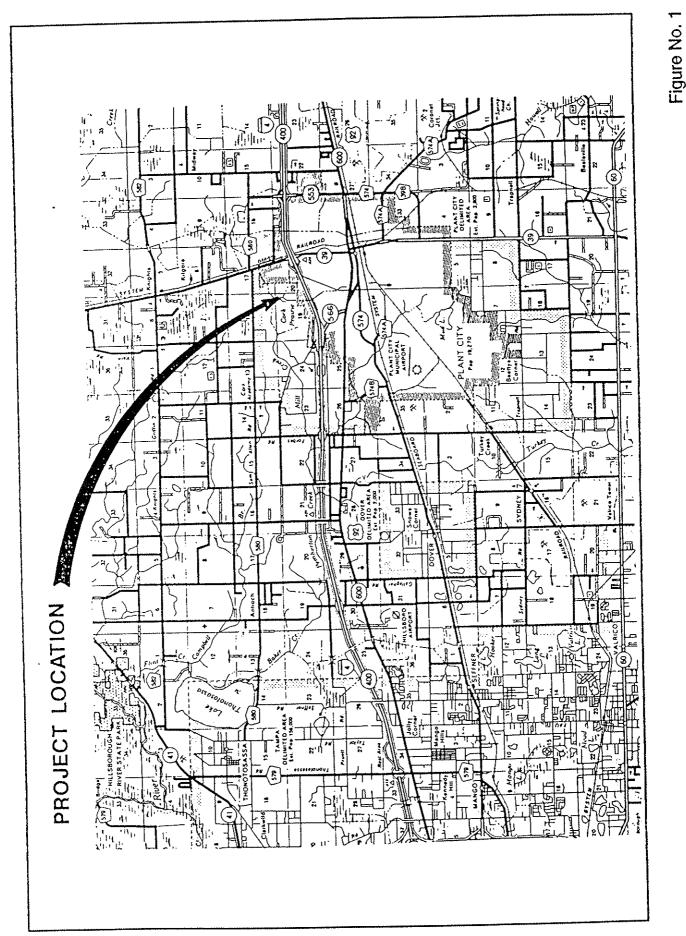
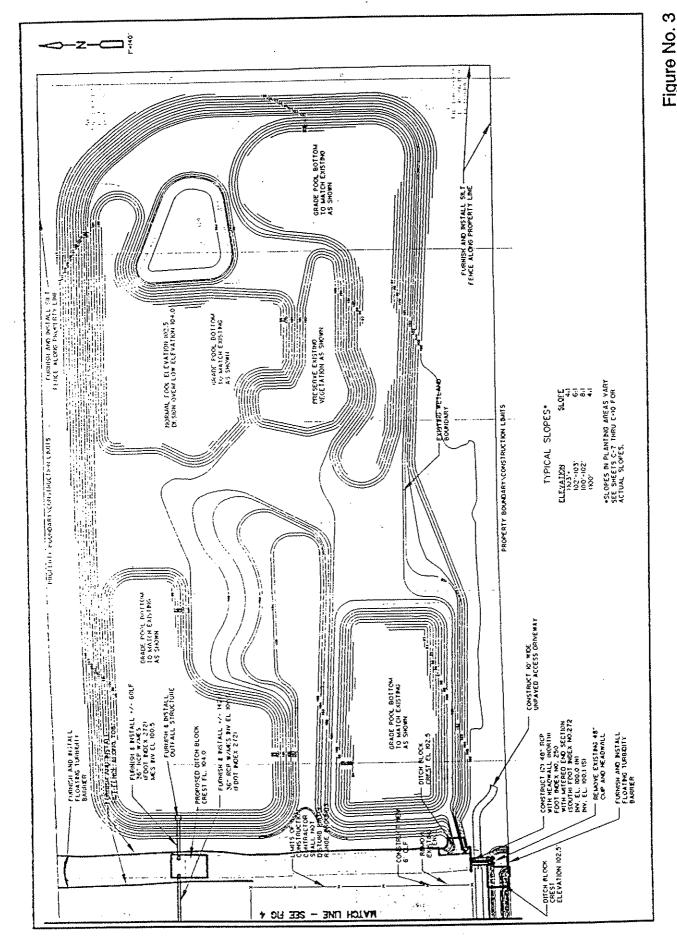


Figure No. 2 PISTOL RANGE REGIONAL STORMWATER TREATMENT FACILITY

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PISTOL RANGE REGIONAL STORMWATER TREATMENT FACILITY GRADING PLAN - EAST

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# **URS Greiner**

April 14, 1999

P.O. Box 31646 (33631-3416) 7650 W. Courtney Campbell Causeway Tampa, Florida 33607-1462 Telephone: (813) 286-1711 Facsimile: (813) 287-8591

Offices in Principal Cities Nationwide

FLORIDA #AA C000901 FLORIDA #LC C000234

**URS Greiner, Inc.** 

Mr. Carlos Lopez, P.E. District Drainage Engineer FDOT District Seven 1120 N. McKinley Drive Tampa, FL 33612

Re:

SR39 and Alexander Street Bypass PD&E Study WPI Segment No. 254552, FAP No. F-321-1 (4) Hillsborough and Pasco Counties, Florida

Dear Mr. Lopez:

This letter presents the conclusions of our meeting held on April 9, 1999 concerning the roadway grade control elevations discussed for the referenced project along with some background information for clarification. We discussed the seasonal high water table (SHWT) and design high water (DHW) elevations for the portion of the referenced project from I-4 to Knights-Griffin Road and an additional pond site.

The SHWT, used for vertical control elevations, was estimated by Mark Brown of FDOT at predetermined locations using wetland and soil boring indicators. The normal pool (NP) and flood elevations were also estimated at most of the wetland locations. Some the control elevations, as well as the NP and flood estimates, were field surveyed at locations where it appeared the grade elevation may not be reflected accurately on the Southwest Florida Water Management (SWFWMD) contoured aerials due to development, vegetative cover, etc. Mark Brown presented his findings in the attached memorandums. An error in the field reduction for the SHWT at site 13B was discovered and confirmed with Mark (see correction in 3-26-99 memorandum).

The nominal DHW elevation was typically assumed to be one-half of the 0.46 m (1.5 ft) maximum treatment depth (SWFWMD criteria) or 0.23 m (0.75 ft) above the SHWT. Although it was not specifically discussed, the profile grade line (PGL) can be generated from the DHW for use by Roadway Design. If the DHW was above natural grade, the minimum PGL was determined at the control elevation locations by adding 1.18m (3.87 ft) to the DHW. This 1.18 m (3.87 ft) distance is the sum of 0.61m (2 ft) base clearance, 0.42 m (1.39 ft) of pavement thickness, and 0.15 m (0.48 ft) for the cross slope. If the calculated minimum PGL elevation occurred below natural grade, the minimum PGL was assumed to be set at natural grade at that station.

Mr. Carlos Lopez, P.E. April 14, 1999 Page 2

Table 1 summarizes the vertical control elevations (Natural Grade, SHWT, DHW) that were discussed and established in our meeting along with their locations. The minimum proposed PGL elevation for these locations was computed and included in this table.

Table 1
SR39 and Alexander Street Bypass PD&E Study
From Interstate 4 to Knights-Griffin Road

Station (meters)	Natural Grade m (ft) NGVD	SHWT Elevation m (ft) NGVD	DHW Elevation m (ft) NGVD	Minimum Proposed PGL Elevation m (ft) NGVD
25+00	32.31	. 32.31	32.54	33.72
	(106.00)	(106.00)	(106.75)	(110.62)
34+00	31.58	31.72	31.95	33.13
	(103.62)	(104.08)	(104.83)	(108.70)
44+00	33.53	31.62	31.85	33.53
	(110.00)	(103.75)	(104.50)	(110.00)
48+00	31.39	30.63	30.86	32.04
	(103.00)	(100.5)	(101.25)	(105.12)
55+00	31.70	31.39	31.62	32.80
	(104.00)	(103.00)	(103.75)	(107.62)
61+00	31.39	31.70	31.93	33.11
	(103.00)	(104.00)	(104.75)	(108.62)
67+00	33.60	32.13	32.35	33.53
	(110.24)	(105.40)	(106.25)	(110.02)
71+50	32.13	30.94	31.16	32.34
	(105.41)	(101.49)	(102.24)	(106.11)

The remainder of this letter explains how the information in Table 1 was determined and includes other information such as discussions on wetland flood indicators, base flood elevations and suggested PGL elevations (McGee Road), etc. The new roadway alignment of the project, which runs from I-4 to SR 39, is known as the Alexander Street Bypass and is hereafter referred to as the ASB.

Mr. Carlos Lopez, P.E. April 14, 1999 Page 3

The first basin that the ASB traverses is an upper reach of Pemberton Creek just north of I-4. The SHWT in the area of station 25+00 (meters) was estimated at grade, approximately 32.31 m (106.0 ft) NGVD at location 1W. This portion of Pemberton Creek is a FEMA designated floodplain but has no designated 100-year base flood elevation. This reach was recently modeled by CDM for the Westside Canal Study (for the City of Plant City) and according to their study the 100-year flood stage is 32.74 m (107.4 ft) NGVD. Mr. Lopez suggested we obtain the Pemberton Creek Study recently performed by Hillsborough County to confirm the elevations computed by CDM.

The second basin traversed by the ASB is part of another reach of Pemberton Creek farther north of the aforementioned reach. The SHWT and flood elevations were estimated and surveyed at 31.72 m (104.08 ft) NGVD and 31.98 m (104.92 ft) NGVD, respectively, near station 34+00 (location 3W). The base flood elevation in the area of this control elevation was calculated to be 32.25 m (105.8 ft) NGVD according to the CDM study, approximately 0.3 m (1 ft) above the wetland flood elevation delineated by Mark Brown.

A control elevation south of McGee Road was estimated using a soil boring at an existing high point in the proposed alignment near station 44+00 (location 5B). This control elevation was not field surveyed and therefore SWFWMD topographic information was used for estimating the SHWT at 31.62 m (103.75 ft) NGVD. In this case, the control elevation was estimated lower than the existing grade (approximately 33.53m [110.0 ft]).

McGee Road will be crossed by the ASB at approximately station 47+50. McGee Road does not appear to have flooding problems and its existing grade at 32.16 m (105.5 ft) should be maintained with the proposed vertical profile as much as possible.

The ASB crosses an agriculture irrigation and drainage (man-made) ditch system, associated with adjacent farming activities north of McGee Road, near station 48+00 (location 6W). The break-over elevation downstream of this drainage system is approximately 29.72 m (97.5 ft). It was estimated that the SHWT in this system is 2 to 3 feet above this break-over elevation, thus setting the SHWT at 30.63 m (100.5 ft) NGVD.

A control elevation was estimated using a soil boring between McGee and Joe McIntosh Roads at an existing high point near station 51+50 (location 7B). This control elevation was field surveyed and the SHWT is at 31.63m (103.76 ft) NGVD, which is lower than the existing grade (32.31m [106.01 ft]).

Part of the aforementioned man-made irrigation and drainage system drains to an existing ditch which travels west from the existing SR39 alignment, near Joe McIntosh Road. The ASB crosses this ditch at approximately 55+00 (location 8W). The SHWT at this location is estimated at 31.39 m (103.0 ft) NGVD using an adjacent wetland boundary elevation noted on the SWFWMD aerial.

Mr. Carlos Lopez, P.E. April 14, 1999 Page 4

At station 61+00, a wetland area will be crossed by the ASB (location 10W). The SHWT was estimated at 31.70 m (104.0 ft) NGVD.

The drainage basin south of Knights-Griffin Road will outfall to a wetland area southwest of the intersection of SR39 and Knights-Griffin Road. The SHWT at approximately station 67+00 was estimated at 32.13 m (105.40 ft) NGVD using a soil boring (location 11B).

A soil boring was taken at the southwest quadrant of the Knight-Griffin/SR39 intersection (location 13B), and the SHWT was estimated at 30.93 m (101.49 ft) NGVD. This is below the existing grade of 32.13 m (105.41 ft) NGVD.

In the area of station 61+00, stormwater would be diverted from one basin to another in the proposed pond siting scheme. Carlos Lopez suggested that another pond and alternates be sited for this basin so the stormwater diversion would not occur.

This is our understanding of what was discussed in our meeting and the resulting minimum PGL elevations. If there are any corrections required to the above information, please advise.

Sincerely,

URS GREINER, INC.

JYZ/mhc

attachments

cc: Gabor Farkasfalvy

Kevin Doyle (URSGWC)

Lisa Heimburg, P.E. (URSGWC) Robert Johnson, P.E. (URSGWC)

# FDOT Technical Memorandum

RECEIVED PO & E

PLAMR 30 AM IO: 13

To:

Gabor Farkasfalvy, Carlos Lopez

ce: Dennis Jent, John Kubler

From:

Mark Brown

Subject:

SR 39/Alexander Street Extension

PD&E Study (FIN 255099-1, SPN 10200-1508)

Date:

March 26, 1999

The following table lists the water elevations associated with the sites requested for evaluation. I have attached a copy of my original memorandum with approximate elevations that are within close range of the surveyed elevations. If I receive additional data from the survey crew, I will pass that information along. If you have any questions, please call (ext. 27989) or e-mail (RI)744MB). Thanks again for all your help. Mark

State Road 39 - Wetland/Upland Surface & Ground Water Elevations

SITE	Grade Elev.	Normal Pool	Seasonal High	Flood Elev.
3W	103.62 ft.	103.62 ft.	104.08 ft.	104.92 ft.
7B	106.01 ft.		103.76 ft.	
118	110.24 ft.		105.4 ft.	
12W	100.2 ft.	100,71 ft.	101.37 ft.	102,19 ft.
13B	105.41 ft.		1066 II.	
14W	100.7 ft.	101,19 ft.	101.99 ft.	
15W	97.42 ft.	97.42 ft.	98,41 ft.	
16W	95.65 ft.		95.65 ft.	
19W	72.23 ft.	72.8 ft.	73.54 ft.	** ** ***** ** ** ** ** **
20W	70.34 ft.	70.74 ft.	71.59 ft.	

Note. The sites are designated "W" for wetland elevations using above-grade biological indicators for hydrological estimations. Sites designated as "B" are wetlands and uplands using soil borings for hydrological evaluations. Site 4W/B was not surveyed since it is part of the same wetland associated with Site 3W. A few wetlands have grade elevations that match either normal pool or seasonal high water elevations

Post-It Fax Note 7671	Date 3/30/99 pages > 5
To Kevin Doule	From Gaber Farkerfally
COIDEDI URS GITTIAPI	<sup>co</sup> FDOT
Phone #	PIKHU 1 975-6455
For 286-6587	Fern

# interoffice MEMORANDUM

to:

Gabor Farkasfalvy, Dennis Jent, Carlos Lopez, John Kubler

from: Mark Brown

subject: SR 39 From 1-4 to US 301, PD&E Study, Wetland & Soil Water Levels

date:

March 14, 1999

At the request of PD&E and Greiner, I conducted water level determinations at various station locations associated with the proposed Alexander Street Extension and potential SR 39 improvements. The attached aerials provided by Greiner designate the locations (blue dots) where surface and ground water elevations were evaluated while using biological and/or soil indicators. For the wetland crossings, various water level indicators were used to determine normal pool (NP), seasonal high water table (SHWT) and flood elevations. In some wetland cases only one or two indicators are present, but at least the SHWT elevation was determined using the best available indicator. For the soil borings, only the SHWT distance below grade was determined and compared with the NRCS Hillsborough County Soil Survey information.

In order to potentially minimize the effort needed by the DOT survey crew to spend on the sites. I have referenced the natural grade elevations listed in the table provided by Greiner Depending on the degree of accuracy associated with those elevations and the necessity to compile exact elevations for the PD&E level study, the elevations I provide for each of the requested stations may be all that is needed. This is particular true for the soil borings that have a deep SHWT elevation compared to the proposed road grade. I refer to Gabor and Carlos for that decision. In any case, I will provide directions and survey locations on the aerials to assist the survey crew locate the sites for the Alexander Street Extension. The remaining SR 39 locations are adjacent to the existing R/W

Sites 1W and 2W (Sheet 1) - This is a severely dewatered swamp, which has resulted in a couple feet of muck oxidation within some portions. Since organic muck oxidizes down to an elevation where the soil stays somewhat saturated, an estimated SHWT equates to the interior grade elevations. I flagged six locations spaced 30-40 ft. apart within the proposed roadway alignment through the lower grade elevations. Based on plant cover, it appears these six flags cover an area where the SHWT still reaches existing grade. According to the table, the grade elevation from that area (Stations 25+70 and 27+23) are 105.5 ft. and 106.0 ft. Location: Either Alexander Street from the south or Franklin Street from the north, take the North Frontage Lane (dirt) down the proposed extension route. There are pink locator flags leading down to the lower elevations from a tree along the north side of the adjacent horse stables.

Site 3W (Sheet 2) - The wetland boundary is further north than depicted on the aerial so the site was moved north. I nailed a SHWT and NP elevation in a maple adjacent to a small pond. I can't get a good handle on the grade elevation at that location. Station 33+63 is listed as 110.0 ft., Stations 34+24 and 34+85 are listed as 105.0 ft. and 104.0 ft. Even though the nailed tree is closest to Station 33.1 can't help but believe the grade is closer to 105 ft. Location: Take Terrace Drive west from

Gabor Farkasfalvy, Dennis Jent, Carlos Lopez Page 2 March 14, 1999

franklin Street until the road ends. Turn right on a private drive, when the driveway turns back to the east, you will see a series of locator flags leading north to the maple tree on the north side of a fenceline.

Site 4B/W (Sheet 2) - This site is actually a tailwater recovery pond used for the adjacent strawberry fields. It would be good to know how deep the pond is since it will have to be filled for the roadway. The table lists the elevation for 35146 as 104.0 ft. and 37+13 as 109.0 ft. Since the latter elevation is representative of the surrounding strawberry fields, I can't tell if the 104.0 elevation is at the pond toc-of-slope or somewhere else. In any case, I put a stake with pink ribbon at the northeast pond boundary to mark the grade elevation (SHWT) of the pond and surrounding fields. The water levels are controlled for berry production but on the average, the SHWT appears to be at least two feet below grade through the fields. Location: Take SR 39 north then west on Sam Allen Road until you see strawberry fields (south) across from the citrus groves (north) (Refer to Sheet 3). There is a dirt road approximately located down the proposed road right-of-way

Site 5B (Sheet 4) - In the soil survey, this area is mapped as Fort Meade which matches the soil characteristics I found in the soil boring. The SHWT is greater than 75 inches below grade. The grade elevation at Station 44+45 is listed as 109.0 ft. Location: Take SR 39 north then west on McGee Road until you reach the proposed roadway centerline. Take private dirt road south until almost the end of the driveway. There is pink flag on a tree where the boring was conducted

Site 6W (Sheet 4) - This area is a series of canals and ponds dredged within historic wetlands. Water levels within this ponded area substantially vary due to the influence of the surrounding strawberry fields. The closest station (Station 48+72) is listed as 105.0 ft. which may be close to the SHWT/Flood Elev. nailed in a willow tree, followed with a nail at the NP elev. The next station (Station 49+94) is listed as 92.4 ft. which appears to be a real questionable elevation. Location: There is a gate along McGee Road north of the proposed R/W. If it is closed, there is another entrance north along Jerry Red Road. There are dirt roads through the strawberry fields that run along the proposed roadway centerline.

Site 7B (Sheet 5) - There is a descrepency between the soil conditions and what is depicted in the NRCS soil survey. Additional borings within the area found the same soil characteristics as a soil mapped just south of the proposed R/W. The soil is Seffner which has a SHWT 20-40 inches below grade. The borings conducted found a SHWT approximately 27 inches below grade. The grade elevation is difficult to determine at Station 51+50 (Station 50+70 is 105.0 ft. and Station 54+97 is 110.0 ft.). Location: You can either take the crop roads from Site 6W or take the private driveway from SR 39 across from Joe McIntosh Road.

Sites 8W and 9B (Sheet 5) - These sites were included as one since the soil conditions are anticipated to be the same. Both sites are mapped on the NRCS soil survey as Myakka which has a SHWT approximately 12 inches below grade. A soil boning at 8W found a SHWT at 14 inches below.

Gabor Farkasfalvy, Dennis Jont, Carlos Lopez Page 3 March 15, 1999

grade and the site is located between Station 54-194 (110.0 ft.) and Station 56-19 (105.0 ft.). A boring was not conducted at Site 9B however it appears from vegetative cover and grade elevation that approximately the same water level conditions can be expected. Location: Either take the crop roads from Site 7B or the private driveway off SR 39.

Site 10W (Sheet 6) - This is a wetland marsh and the estimated SHWT matches the perimeter grade elevation (one stake with pink flagging). The closest station (Station 60+91) is listed at elevation 103.0 ft. If that is accurate, I would estimate the SHWT of the marsh to be approximately 104.0 ft. Location: Did not locate a gate, just crossed the fence along SR 39.

Sites 11B and 13B (Sheet 7) - These sites have similar soils and both mapped within the NRCS soil survey as having Candler soils which has a SHWT greater than 80 inches below grade. However, both sites are not quite as well drained but made up of known inclusions of the Candler series. Site 11B is considered a Millhopper soil which was determined to have a SHWT at 58 inches below grade. The boring was conducted within a few feet north of SR 39 and the closest station (Station 67+16) has a road elevation of 108,2 ft. which would approximate a SHWT elevation of 103,3 ft. Site 13B was found to have a Tavares soil with a SHWT at 47 inches below grade at Station 71+31 (Fil. 106.0 ft.) which would approximate a SHWT elevation of 102,1 ft.

Site 12W (Sheet 7) - This maple swamp surrounding a marsh exhibits substantial water level elevations. Three nails were set in a maple found southwest of Knights Baptist Church. These nails represent a Flood, SHWT, and NP elevation. Since this swamp outfalls through a ditch located under Knights Griffin Road (West), it may be prudent to get a cross-sectional survey of that culvert crossing. Since the roadway does not encroach upon this wetland, I did not have any grade elevations to estimate the nail elevations.

Site 14W (Sheet 8) - This is a large marsh adjacent to SR 39. A few cypress are located ithin the proposed R/W. SHWT and NP elevations are nailed in the tree 1-1.5 ft, above grade. Station 78+63 grade elevation is listed at 101 ft., Station 78+80 is listed as 100 ft. The cypress tree is located at Station 79+00 so depending on the grade elevation, the SHWT could be as high as 102.5 ft.

Site 15W (Sheet 11) - There is a forested wetland west of the R/W where I hammered a nail in a cypress tree for the Flood/SHWT elevation and the grade elevation is NP. Since the wetland is away from the R/W, I cannot estimate the grade elevation compared to the roadway elevation.

Site 16W (Sheet 12) - There is an dredged, impounded pond adjacent to the roadway but the site conditions do not exhibit good natural water level conditions. A soil boring within proximity of the roadway also did not have a natural soil profile. Based on vegetative indicators, I placed a stake along the roadway sideslope where the water level appears to reach during SHWT conditions. This clovation is probably 1-1.5 ft. below the road grade elevation.

Gabor Farkasfalvy, Dennis Jent, Carlos Lopez Page 4 March 15, 1999

. . . . . .

Site 17B (Sheet 16) - I conducted a soil boring adjacent to the roadway that indicated the SHWT is approximately 20 inches below. The roadway and adjacent natural grade elevation at that location (Station 135+18) is listed as 85 ft. which would estimate the SHWT at approximately 83.5 ft. There is a large, deep drainage swale along the R/W that probably maintains that lower water level. In addition, approximately 6 inches of fill is located adjacent to the roadway.

Site 18W (Sheet 17) - This is the Blackwater Creek crossing area. I did not set any water level indicators but refer to the specific hydrologic modeling conducted by Megan Arasteh in preparation of the Blackwater Creek Bridge replacement.

Site 19W (Sheet 21) - I set two nails (SHWT, NP) within a cypresss tree along the proposed R/W limits. The nearest grade elevation (Station 168+87) is listed as 73.0 with the road grade elevation at 77.7. The SHWT elevation is 1-1.5 ft. above natural grade.

Site 20W (Sheet 23)- I set two nails (SHWT, NP) within a cypress tree. There is an old road grade berm located along the edge of the proposed R/W through this swamp. That berm acts to impound surface water between the existing SR 39 embankment and the old berm, resulting in some rather high water level indicators. The closest station (Station 185+03) has a road grade elevation of 74.5 ft. and natural grade elevation of 70.0 ft. The wetland SHWT is probably around 72.0 ft

Site 21W (Sheet 29) - This area is listed as both a wetland and within the 100-Year Flood Zone. It is not a wetland area and have real doubts about the accuracy of the FEMA map if it is in a flood zone. The NRCS soil survey depicts the area as a Tavares soil which has a SHWT between 40 to 60 inches below grade. A soil boring within the proposed alignment verified that the soil is Tavares and a SHWT is estimated at 52 inches below grade.

If you should have any questions, please my e-mail is RD744MB and extension is 27989. Thanks-MB

# **MEMORANDUM**

Florida Department of Transportation Environmental Management Office - MS 7-500

DATE:

November 22, 1999

TO:

Gabor Farkasfalvy, Project Engineer

FROM:

Todd Mccklenborg, Biologist

m

COPIES:

File

SUBJECT:

WPI Seg. No. 255099 1, SR 39 Pond Siting

Per your request, field surveys were conducted during the month of November along the SR 39 corridor. As part of the pond siting request the alternative pond locations were investigated for threatened or endangered species occurrences and wetland concerns.

No species listed as threatened or endangered were observed during the field reconnaissances within the potential pond locations. The limits of the ponds will not impact jurisdictional wetland areas with their current configuration.

# MEMORANDUM

#### FLORIDA DEPARTMENT OF TRANSPORTATION FDOT, District 7 11201 McKinley Drive

DATE:

February 10, 2000

TO:

Gabor Farkasfalvy, Project Manager

FROM:

Michael A. Gonsalves, Hazardous Materials Engineer

COPIES:

File

SUBJECT:

WPI Segment No. 255099-1, S.R. 39 Pond Siting

Per your request, a field survey was conducted for pond sites during the month of November for the above project. As part of the pond siting request, the alternative pond sites were investigated for hazardous materials and potential nearby impacts.

Pond Site 5A is directly adjacent to the east of Contamination Site # 7 (Vacant / Old Gasoline Station), located at S.R. 39 and McLin Road. Site ranking for this site was "Medium" meaning that additional contamination assessment activities are warranted. Contamination Site # 7 is within current proposed right-of-way for this project, so further investigation will be completed prior to final design and construction.

All other pond site locations are situated in areas of little or no current development, and so all other sites are considered to be ranked as "No", and should have no potential for contamination impacts. Unregistered dumping of household or other debris in these areas was not noted, but the potential exists for this type of activity.

Date: 03/20/00

From: Rebecca Schwarz KN704SR - DOT1
To: Gabor I. Farkasfalvy PD701GF - DOT1

Subject: SR 39 PD&E, CRAS for Proposed Pond Sites (255099 1 & 256289 1)

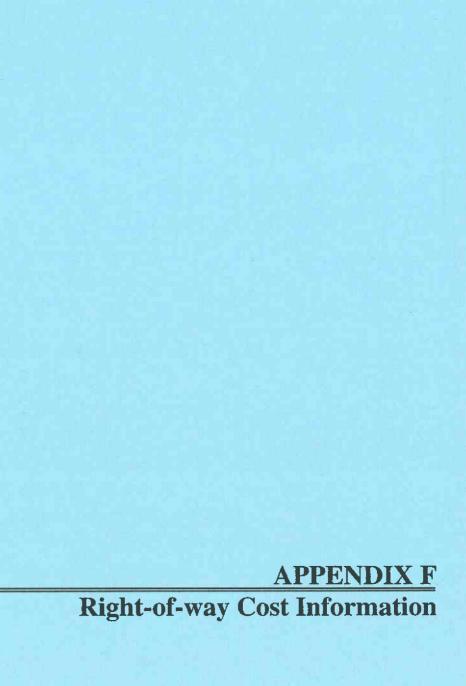
Gabor.

In answer to your request last week, I am sending you an e-mail which summarizes the findings in the Cultural Resource Assessment Survey (CRAS) Report (November 1999) that pertain to the proposed pond sites. The CRAS, prepared by Archaeological Consultants, Inc. (ACI), included an update of the mainline roadway, as well as 15 proposed pond sites located in the vicinity of the Alexander Street Bypass between I-4 and Knights Griffin Road. As a result, four previously recorded archaeological sites (8HI5360, 8HI5363, 8HI5361, and 8HISO70) were identified within proposed ponds P1B, P2B, P2C, and PIC, respectively. None of these lithic and artifact scatter type sites was evaluated as being potentially eligible for listing in the National Register of Historic Places (NRHP). In addition, one "archaeological occurence," evidenced by a single ceramic sherd, was discovered in proposed Pond PIA. This single artifact find may be associated with 8HI5360. No historic structures were found within any of the proposed ponds. Five proposed ponds (P2A, P2B, P3A, P3B, and P3C) were not archaeologically field tested due to either denial of landowner permission for access (P3B & P3C), the presence of newly cultivated agricultural fields (P2A, P2B, P3A), or the adequacy of previous archaeological survey (P2B).

The CRAS Report was submitted to the FHWA and the SHPO for review in December 1999. The SHPO responded with a concurrence letter dated February 24, 2000. They indicated that if any of the proposed ponds that were not archaeologically field tested are selected for construction they will need to be tested.

In summary, none of the 15 proposed pond sites, evaluated in the November 1999 CRAS, involve significant archaeological or historical resources.

-- Becky Spain Schwarz, D-7 Cultural Resource Program Manager





JEB BUSH GOVERNOR 11201 N. McKINLEY DRIVE \* TAMPA, FL 33612-6456 \* 975-6119 \* 1-800-226-7220 PD&E DEPARTMENT \* M.S. 7-500 THOMAS F. BARRY, JR. SECRETARY

Date: December 1, 1999

Phone: (813) 975-6455 Fax: (813) 975-6451

#### LETTER OF TRANSMITTAL

rax: (813) 973-0431	RANSIMI I AL
TO: Kevin Doyle	RE: WPI Seg. No. 255099 1
Greiner	
WE ARE FORWARDING TO YOU:	. *
Copy of Letter(s) Preliminary Concept Plans Draft Engineering Report Public Information/Letter X The Following Described Item(s)	Final Environmental Reports Request(s) for Traffic Study Permit(s)/Agreements(s) Draft Environmental Report
S.R. 39 right-of-way cost estimate.	
THESE ARE TRANSMITTED/RETURNE	D: .
For Approval For Revision For Your Use For Signature As Requested For Your Files	
· .	
ce:	BY: Gabor Farkasfalvy
	TITLE: Project Manager



# Memo

Date:

November 29, 1999

To:

Bill McTeer, Cost Estimate Coordinator

FDOT - District Seven (MS 7-900)

From:

Terry L. Dunn, Division Manager

Right of Way Services

Re:

**Cost Estimate** 

25#0991 & 2562891 FP#

7113826 WPI#

FAP# N/A

700140.06 PBS&J#

Hillsborough & Pasco County SR 39/Alexander Street Description

Extension from I-4 to US 301

**Work Program Update** Type of Estimate

Aurelie J. Anthony CC:

(MS 7-900)

Cabor Falkasfalvy, Proj. Mgr. (MS 7-600)

**Rick Creamer** 

(MS 7-350)

Terri Rayo

(MS 7-350)

Toni Loyd

(MS 7-600)

**GEC Project File** 

(PBS&J - Kathy Wilkins)

PBS&J C.E. File

(700140.06)

As requested, enclosed are copies of the above cost estimate for your distribution together with a diskette containing the cost estimate in lotus format for your use. Please inform us of any changes you might make to the estimate so that our numbers concur.

(a:final.mem)



#### MEMORANDUM

Date:

October 27, 1999

To:

Aurelie J. Anthony, Dep. District R/W Manager, Operations (MS 7-900)

FDOT - District Seven

From:

Mitch Hammer, PBS&J / W

Subject:

**Cost Estimate** 

FP#

: 2550991 & 2562891

WPI#

: 7113826

FAP

: N/A

PBS&J#

: 700140.06

County

: Hillsborough & Pasco

Description: SR 39/Alexander St. extension From I-4 to US 301

Type of Est.: Work Program

In accordance with your request, a R/W cost estimate has been prepared for the above project. Attached is the estimate based on PD&E aerial maps. This estimate includes an update of the prior estimate submitted 2/18/88 in addition to three new segments (2, 3A and 3B) and 15 pond alternates. Business damage estimates were provided by Gerson, Preston & Co.

Please call if you have questions or concerns (877-7275 x499). At your direction additional copies will be forwarded for distribution.

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REMARKS:	Segment 2 - north of Kr	sights-Griffen Ad.	. (sta. 80+00) to Bio	unt Ave. in Pasco Co. (sta	. 192+50).	
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## FLORIDA DEPARTMENT OF TRANSPORTATION PBS&J#:700140.06 DISTRICT SEVEN RIGHT OF WAY COST ESTIMATE Seven District: 7113826 Former WPL#: 991 27-Oct-99 Date: NIA FAP No.: LiPasco N/A C.E. Sequence #: Segment 3-A Alternate: 3 39 from I-4 to US 301 Estimated Relocatees: Parcels: Gross Business Ř 29 D Business Residential Residential Signs 15 15 30 Unimproved Special 60 Total Relocatees 30 30 Total Parceis Amount Federal Aid RIW SUPPORT COSTS (PHASE 41) **Participating** 195,080 6,500 Rate) 30 (Parcels 1. Direct Labor Cost Participat<sup>2</sup> Rate) NIA 30 (Parcels 2. Indirect Overhead TOTAL PHASE 41 \$19! 0) (Non-Participating 195,000 ) 3. (Participating Amount RIW OPS (PHASE 4B) 360,000 Participating 12,000 30 Parcels x 4. Appraisal Fees Through Trial 57,000 Non-Partic. 19,000 3 Claims x 5. Business Damage CPA Fees Through Trial 11,500 Participat 500 23 Parcels x 75% 6. Court Reporter & Process Servers 690,000 Participat 23 Parcels x 30,000 30 75% 7. Expert Witness 36,000 Participating 2,400 15 Parcels x 50% 8. Mediators 180,000 Participating 15,000 12 Imprvmt x 9. Demolition, Asb. Abate., Survey, etc. 15,000 Participation Per Project 10. Miscellaneous Contracts 5,000 O Participa N/A Parcels x 11. Appraisal Fee Review 00 TOTAL PHASE 48 \$1,34 57,000) 1,292,500 ) (Non-Participating 12. (Participating Subtotal Amount RIW LAND COSTS (PHASE 43) 13. Land, Improvements & Severance Damages/Cost to Cure Participa 2,634,374 130% \* Dasign plan stage 2,026,441 Amount Participa 130% (0 parcels wio (R/W Acq 14. Water Retention & Mit. 0 X 2,634,374 SUBTOTAL (Lines 13 and 14) 15. Participating of Line 15) 355,600 30% 45% 16. Admin. Settlements (Factor 1,106,400 Participa\*ing of Line 15) 70% 60% 17. Litigation Awards (Factor 108,400 Non-Part \$0 18. Business Damages (Claims 27,100 Non-Part 25% \$108,400 (Factor 19, Bus. Damages Incrs. Non-Partic. 230.000 \$10,000 (Parcels 23 20. Dwner Appr. Fees Non-Partic. 30,000 \$10,000 21. Owner CPA Fees (C)aims Non-Partir 639,000 40% 22. Defend. Atty Fees (Lines 16 + 17 + 18 + 19Non-Parti 414,000 ) x 18,000 Unimproved 23. Owner Expert Witness (Businesses 15,000 Participa 1500 30 {Parcels 24. Other Condemn. Costs 2,925,500 SUBTOTAL (lines 16 thru 24) \$5,559,900 TOTAL PHASE 43 1,448,500 ) 4,111,490 ) + (Non-Participating 26. (Participating \* Design contingency for design plan stage: (3) 60% plans · 120% (4) 90% plans · 115% (5) 268 Date · 110% (1) PD&E plans - 130% (2) 30% plans - 125% Federal A RIW ACQUISITION CONSULTANT (PHASE 42) 10 TOTAL PHASE 42 (100% Participating) RELOCATION COSTS (PHASE 45) Number Amount Replacement Housing 000,08 \$20,000 Per Unit 28. Owner 250,000 25 29. Tenant \$10,000 Per Unit Move Costs 43,500 29 \$1,500 Per Unit X 30 Residential 20.000 \$20,000 Per Unit 31. Business/Farm 30 \$60,000 \$2,000 Per Unit 32, Personal Property 4453,500 TOTAL PHASE 45 (100% Participating) 33. (Lines 28 thru 32) (Not in Phase Total) \$45,350 34. Relocation Services Cost Non-Participating 1,505,500 35. 6,052,400 Participating 36. \$7,5, ,,900 TOTAL ESTIMATE (All Phases) 37. Date: 77 Signed: Appraisal: Mitch Hammer 25-0et-99 By attachment Data: Signed: Bus. Dam. : Gerson, Preston & Co. Date: Signed: Relocation: Mitch Hammer Date: Signed: Overall Review: Terry L. Dunn Data Input Completion Date: In the amount of \$ Dated: Cost Estimate Seguence # REMARKS: Segment 3A from Blount Ave. to US 301(all west side alignment).

ne following indicates the estimator's confidence in the above estimate:	Future Value Factors @	10.0%
Type A - indicates the most confidence Type B - indicates above average confidence	One Year: Two Years:	1,1000 1,2100
X Type C - indicates below average confidence Type D - indicates the least or no confidence	Three Years: Four Years: Five Years:	1,3310 1,4641 1,6105
he following indicates the Department's purpose for this estimate:  Vork Program Update: X Special Purpose: Com	nents:	

## FLORIDA DEPARTMENT OF TRANSPORTATION PBS&J#:700140.06 DISTRICT SEVEN RIGHT OF WAY COST ESTIMATE Seven District: formar WP₩: 2550991 26-0ct-99 FP# NIA FAP No.: Hills./Pasco NIA County C.E. Sequence #: Segment 3-B Alternate: State Rd.: SR 39 from 1-4 to US 301 Project Des Estimated Relocatees: ถ Parcels: Gross Business 6 Business Residential Ü Residential Signs 15 Unimproved Special Total Relocatees 32 32 Total Parcels Federal Aid Amount RIW SUPPORT COSTS (PHASE 41) **Participating** 208,000 6,500 Rate) 32 (Parceis **Participating** 1. Direct Labor Cost Rate) N/A (Parcels 32 \$208,000 2. Indirect Overhead TOTAL PHASE 4 0 } 208,000 ) (Non-Participating 3. (Participating RIW OPS (PHASE 48) 384,000 Participating 12.000 32 Parcels x 4. Appraisal Fees Through Trial 19,000 Non-Partic. 19,000 1 Claims x Business Damage CPA Fees Through Trial 12,000 Participating 500 24 Parcels x 75% Court Reporter & Process Servers 720,000 Participating 30,000 24 Parceis x 75% 38,400 Participating Expert Witness 2,400 16 Parcels x 50% 135,000 Participating 8. Mediators 15,000 9 Imprvmt x Demolition, Asb. Abate., Survey, etc. 15,000 Participating Per Project 10. Miscellaneous Contracts 0 Participating 5.000 NIA Parceis x 11. Appraisal Fee Review \$1,323,400 TOTAL PHASE 4B 19,000 } (Non-Participating 1,304,400) 12. (Participating Subtotal Amount RIW LAND COSTS (PHASE 43) 13. Land, Improvements & Severance Damages/Cost to Cure **Participating** 1,723,257 130% \* Design plan stage 1,325,582 **Participating** 0 130% (O percels w/o /R/W Acq 14. Water Retention & Mit. 1,723,257 SUBTOTAL (Lines 13 and 14) **Participating** of Line 15) 232,600 45% (Factor 16. Admin. Settlements **Participating** 723.800 70% of Line 15) 60% (Factor 17. Litigation Awards Non-Partic. 43 000 **\$**D (Claims 18. Business Damages Non-Partic. 10,800 \$43 000 19. Bus, Damages Incrs. Factor Non-Partic. 240,000 \$10,000 20. Owner Appr. Fees Parcels Non-Partic. 10,000 \$10,000 21. Owner CPA Fees (Claims Non-Partic. 404,100 40% 16+17+18+19) 22. Defend. Atty Fees (Lines Mon-Partic. ) x 18,000 342,000 Unimproved (Businesses 23. Owner Expert Witness 16,000 Participating \$500 32 24, Other Condemn, Costs 2,022,300 SUBTOTAL (lines 16 thru 24) 3,745,600 25. TOTAL PHASE 43 1,049,900) 2,695,700 } + (Non-Participating 26. (Participating Design contingency for design plan stage: (3) 60% plans · 120% (4) 90% plans · 115% (5) 268 Date · 110% (1) PD&E plans - 130% (2) 30% plans - 125% Federal Aid RIW ACQUISITION CONSULTANT (PHASE 42) TOTAL PHASE 42 (100% Participating) RELOCATION COSTS (PHASE 45) Amount Number Replacement Housing 60,000 \$20,000 Per Unit 28. Owner 30,000 \$10,000 Per Unit 29. Tenant Move Costs 9,000 \$1,500 Per Unit 30, Residential \$20,000 Per Unit 31 Rusiness/Farm \$4,000 \$2,000 Per Unit 32. Personal Property 103,000 TOTAL PHASE 45 (100% Participating) 33. (Lines 28 thru 32) \$10,300 (Not in Phase Total) 34. Relocation Services Cost Non-Participating 1.068,900 35. **Participating** 4,311,100 36. \$5,380,000 TOTAL ESTIMATE (All Phases) 37. /O − ∂ € ^ ° 25-0ct-99 Date: Signed: 11/1/2/ / Appraisal: Mitch Hammer Date: Gerson, Preston & Co Signed: By attachmen Bus. Dam. : 10-26-99 Date: Signed: Relocation: Mitch Hammer Signed: Overall Review: Terry L. Dunn Data Input Completion Date: In the amount of \$ Cost Estimate Sequence #: Dated: REMARKS:

Segment 3B from Blount Ave. to US 301(east and west side alignments).

The following indicates the estimator's confidence in the above estimate:  Type A - indicates the most confidence Type B - indicates above average confidence X Type C - indicates below average confidence Type D - indicates the least or no confidence	Future Value Factors @ 10.0% One Year: 1.1000 Two Years: 1.2100 Three Years: 1.3310 Four Years: 1.4641 Five Years: 1.6105
The following indicates the Department's purpose for this estimate:  Work Program Update: X Special Purpose: Comm	nents:

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Comments:

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(Participating	<u> </u>		0) + (8	ion-Partici	pating	3 0 /	. (01)	T I BASE 41	
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	vements & Se		angelCart to C	ture					
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	intion & Mit.	42,020	^ -	1307	SUBTOTAL (Line				54,626
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. Litigation A		(Factor	60%	x	70%	of Line 15)		22,900	Participati
. Business D		(Claims	0	x	\$0	, )		0	Non-Partic
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1. Owner CPA		(Cleims	Ö	x	\$16,000	)		0	Non-Partic
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Bus. Dam. :	N/A	·		Signed:	A1_2.7 =0	<del></del>		Date:	10-26-09
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One Year:

Two Years:

Comments:

Three Years: Four Years: Five Years:

Type A - indicates the most confidence
Type B - indicates above average confidence
Type C - indicates below average confidence

Type D indicates the least or no confidence

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Special Purpose:

The following indicates the Department's purpose for this estimate:

Work Program Update:

unty:	550991	Markey and Markey and A	Former WP	The State of the S					
unty: I	33000,			Tù:	7113826			District: Date:	Seven 27-Oct-99
	lills./Pasco		FAP No.:		N/A POND P1C			C.E. Sequence #:	NIA
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		Factor	45%	X	30% 70%	of Line 15) of Line 15)		27,600 86,000	Particip
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7. Litigation Aw 8. Business Dan 9. Bus. Damage 0. Owner Appr. 1. Owner CPA F 2. Defend. Atty 3. Owner Exper 4. Other Conder 6. (Participatin Design conting (1) PD&E p IW ACQUISITIO 7. ELOCATION CO 8. Owner 9. Tenant 0. Residential 1. Business/Fai 2. Personal Pro	rards rages s incrs. Fees Fees Fees (Lines 1) t Witness mn. Costs genery for designans 130% UN CONSULTA DISTS (PHASE Replacement Move Costs	Factor Claims Factor Partor Factor Fa	1 25% 6 1 1 0 0 0 0 0 0 Per Unit 00 Per Un	x x x + x + {Non-Pa (3) 60% p.	\$5,900 \$10,000 \$10,000 40% Unimproved SUBTOTAL (linearticipating	0 \$508 16 thru 24) 65,800 7% plans - 11 (100% Part	20.0 \$2.0 ticipating)	1,500 0 10,000 48,400 0 0 TOTAL PHASE 43 58 Date - 110% TOTAL PHASE 42 unt 0 0	Non-Par Non-Par Non-Par Non-Par Particip 179,400
7. Litigation Aw. 3. Business Dari 3. Bus. Damage 9. Bus. Damage 10. Owner Appr. 1. Owner CPA F. 2. Defend. Atty 3. Owner Exper 4. Other Conder 5. 6. (Participatin Design conting (1) PD&E p JW ACQUISITIO 7. ELOCATION CO 8. Owner 9. Tenant 0. Residential 1. Business/Fai 2. Personal Pro 3. (Lines 28 thi	rards mages s incrs. Fees Fees Fees (Lines 1) t Witness mn. Costs  rency for designans · 130% IN CONSULTA  DISTS (PHASE Replacement  Move Costs	Factor Claims Factor Partor Factor Fa	1 25% 6 1 1 ) 0 0 0 0 0 Per Unit 00 Per Un	x x x + x + {Non-Pa (3) 60% p.	\$5,900 \$10,000 \$10,000 40% Unimproved SUBTOTAL (linearticipating	0 \$509 16 thru 24) 65,800 7% plans : 11	20.0 \$2.0 ticipating)	1,500 0 10,000 48,400 0 0 TOTAL PHASE 43 58 Date - 110% TOTAL PHASE 42	Non-Par Non-Par Non-Par Non-Par Particip 179,400 \$3
7. Litigation Aw. 3. Business Dari 3. Bus. Damage 3. Bus. Damage 6. Owner Appr. 1. Owner CPA F 2. Defend. Atty 3. Owner Exper 4. Other Conder 6. (Participatin Design conting (1) PD&E p JW ACQUISITIO 7. ELOCATION CO 8. Owner 9. Tenant 0. Residential 1. Business[Fal 2. Personal Pro 3. (Lines 28 th) 4. Relocation S	rards mages s incrs. Fees Fees Fees (Lines 1) t Witness mn. Costs  rency for designans · 130% IN CONSULTA  DISTS (PHASE Replacement  Move Costs	Factor Claims Factor Partor Factor Fa	1 25% 6 1 1 ) 0 0 0 0 0 Per Unit 00 Per Un	x x x + x + {Non-Pa (3) 60% p.	\$5,900 \$10,000 \$10,000 40% Unimproved SUBTOTAL (linearticipating lans - 120% (4) 9.	0 \$508 16 thru 24) 65,800 7% plans - 11 (100% Part	Amount icipating)  20,0 \$2,0 ticipating) ase Total)	1,500 0 10,000 48,400 0 0 TOTAL PHASE 43 58 Dote - 110% TOTAL PHASE 42	Non-Part Non-Part Non-Part Non-Part Non-Part 179,400 \$3
1. Litigation Aw. 13. Business Dari 13. Bus. Damage 13. Bus. Damage 14. Owner CPA F 15. Defend. Atty 15. Owner Exper 16. (Participatin 17. Design conting 17. PD&F 17. PD&F 18. Owner 19. Tenant 10. Residential 11. Business/Fa 12. Personal Pro 13. (Lines 28 th 14. Relocation S 15.	rards mages s incrs. Fees Fees Fees (Lines 1) t Witness mn. Costs  rency for designans · 130% IN CONSULTA  DISTS (PHASE Replacement  Move Costs	Factor Claims Factor Partor Factor Fa	1 25% 6 1 1 ) 0 0 0 0 0 Per Unit 00 Per Un	x x x + x + {Non-Pa (3) 60% p.	\$5,900 \$10,000 \$10,000 40% Unimproved SUBTOTAL (linearticipating lans - 120% (4) 9.	0 \$500 16 thru 24) 65,800 0% plans · 11 (100% Part	20,0 \$2,0 \$2,0 \$2,0 \$1,0 \$2,0 \$2,0 \$3,5 \$4,8 \$3,5,4	1,500 0 10,000 48,400 0 0 TOTAL PHASE 43 58 Data - 110% TOTAL PHASE 42 unt 0 0 0 0 0 TOTAL PHASE 45	Non-Participating
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. Litigation Aw. 3. Business Dari 3. Bus. Damage 3. Bus. Damage 3. Dus. Damage 4. Other Conder 5. Learning Conder 6. Learning Conting (1) POSE p  IW ACQUISITIO 7. ELOCATION CO 8. Owner 9. Tenant 1. Businessifia 2. Personal Pro 3. (Lines 28 th 4. Relocation S 5. 6. 7.	rards mages s incrs. Fees Fees Fees (Lines 1) t Witness mn. Costs  rency for designans · 130% IN CONSULTA  DISTS (PHASE Replacement  Move Costs	Factor Claims Factor Parcels Factor Parcels Claims i+17+18+19 Businesses (Parcels  318,44 in plan stage: (2) 30% plan NT (PHASE 4 45) Housing \$20,0 \$10,0 \$20,0 \$20,0 \$20,0	1 25% 6 1 1 ) 0 0 0 0 0 Per Unit 00 Per Un	x x x x + + x + {Non-Pa (3) 60% p. x x x x x x x x x x x x x x x x x x	\$5,900 \$10,000 \$10,000 40% Unimproved SUBTOTAL (linear rticipating lans - 120% (4) 9.	0 \$500 16 thru 24) 65,800 0% plans · 11 (100% Part	20,0 \$2,0 \$2,0 \$2,0 \$1,0 \$2,0 \$2,0 \$3,5 \$4,8 \$3,5,4	1,500 0 10,000 48,400 0 0 TOTAL PHASE 43 58 Data · 110% TOTAL PHASE 42 unt 0 0 0 TOTAL PHASE 45 00 00 TOTAL PHASE 45 00 00 TOTAL PHASE 45	Non-Part Non-Part Non-Part Non-Part Non-Part Particip 179,400 \$3  Federal
. Litigation Aw. 3. Business Dar 3. Bus. Damage 3. Bus. Damage 4. Owner CPA F 4. Other Conder 5. (Participatin Design conting (1) POSE P IW ACQUISITIO 7. ELOCATION CO 8. Owner 9. Tenant 1. Businessifar 2. Personal Pro 3. (Lines 28 thi 4. Relocation S 5. 6. 7.	rards rages s incrs. Fees sees Fees (Lines 1) t Witness mn. Costs  gency for designation 130%  IN CONSULTA  DISTS (PHASE Replacement Move Costs rm operty ru 32) services Cost  Mitchell Har Gerson, Pre-	Factor Claims Factor Partor Pa	1 25% 6 1 1 ) 0 0 0 0 0 Per Unit 00 Per Un	x x x x + + x + {Non-Pa (3) 60% p. x x x x x x x x x x x x x x x x x x	\$5,900 \$10,000 \$10,000 40% Unimproved SUBTOTAL (linearticipating lans - 120% (4) 9.	0 \$500 16 thru 24) 65,800 0% plans · 11 (100% Part	20,0 \$2,0 \$2,0 \$2,0 \$1,0 \$2,0 \$2,0 \$3,5 \$4,8 \$3,5,4	1,500 0 10,000 48,400 0 0 TOTAL PHASE 43 68 Date - 110%  TOTAL PHASE 42  unt 0 0 0 0 TOTAL PHASE 45  0 0 TOTAL PHASE 45  0 0 TOTAL PHASE 45  0 0 TOTAL PHASE 45	Non-Part Non-Part Non-Part Non-Part Non-Part Particip 179,400 \$3  Federal Federal Participating Participating \$1,000 Participating \$25.0ct.99
7. Litigation Aw. 3. Business Dar 3. Bus. Damage 3. Bus. Damage 7. Litigation Aw. 3. Defend. Atty 3. Owner Exper 4. Other Conder 5. 6. (Participatin Design conting (1) PD&E p JW ACQUISITIO 7. ELOCATION CO 8. Owner 9. Tenant 0. Residential 1. Business[Fal 2. Personal Pro 3. (Lines 28 thi 4. Relocation S 15. 16. 17. Appraisal: Sus. Dam.: Belocation:	mages s incrs. Fees Fees (Lines 1) t Witness mm. Costs  rency for designans 130% IN CONSULTA  IN CONSULTA  Move Costs  Mitchell Har  Gerson, Pre-  Mitchell Har	Factor Claims Factor Claims Factor Parcels Claims i+17+18+19 Businesses (Parcels  318,40 m plan stage: (2) 30% plan NT (PHASE 4 45) Housing \$20,0 \$10,0 \$1,5 \$20,0 \$20,0 \$10,0 \$1,5 \$20,0 \$10,0 \$1,5 \$20,0 \$1,5 \$20,0 \$1,5 \$20,0 \$20,0 \$1,5 \$20,0 \$20,	1 25% 6 1 1 ) 0 0 0 0 0 Per Unit 00 Per Un	x x x + + X + (Non-Pa (3) 60% p.  x x x X Signed: Signed: Signed:	\$5,900 \$10,000 \$10,000 40% Unimproved SUBTOTAL (linear rticipating lans - 120% (4) 9.	0 \$500 16 thru 24) 65,800 0% plans · 11 (100% Part	20,0 \$2,0 \$2,0 \$2,0 \$1,0 \$2,0 \$2,0 \$3,5 \$4,8 \$3,5,4	1,500 0 10,000 48,400 0 0 0 TOTAL PHASE 43 68 Date - 110%  TOTAL PHASE 42  unt 0 0 0 0 TOTAL PHASE 45  0 0 TOTAL PHASE 45  0 0 TOTAL PHASE 45  0 0 TOTAL PHASE 45	Non-Part Non-Part Non-Part Non-Part Non-Part Particip 179,400 \$3  Federal
7. Litigation Aw 8. Business Dan 9. Bus. Damage 0. Owner Appr. 1. Owner CPA F 2. Defend. Atty 3. Owner Exper 4. Other Conder 5. 6. (Participatin Design conting (1) PD&E p JW ACQUISITIO 7. ELOCATION CO 8. Owner	rards rages s incrs. Fees Fees Fees (Lines 1) t Witness mn. Costs  g ency for desig dans - 130%  IN CONSULTA  INTERPOLATION  Move Costs  m operty ru 32) cervices Cost  Mitchell Har  Terry L. Dur	Factor Claims Factor Claims Factor Parcels Claims i+17+18+19 Businesses (Parcels  318,40 m plan stage: (2) 30% plan NT (PHASE 4 45) Housing \$20,0 \$10,0 \$1,5 \$20,0 \$20,0 \$10,0 \$1,5 \$20,0 \$10,0 \$1,5 \$20,0 \$1,5 \$20,0 \$1,5 \$20,0 \$20,0 \$1,5 \$20,0 \$20,	1 25% 6 1 1 ) 0 0 0 0 0 Per Unit 00 Per Un	x x x x + + x + {Non-Pa (3) 60% p. x x x x x x x x x x x x x x x x x x	\$5,900 \$10,000 \$10,000 40% Unimproved SUBTOTAL (lines riticipating lans - 120% (4) 9 Number 0 0 1 1 1 \$2,200	0 \$500 16 thru 24) 65,800 7% plans - 11 (100% Part	20.0 \$2.0 ticipating)  Amount	1,500 0 10,000 48,400 0 0 TOTAL PHASE 43 68 Date - 110%  TOTAL PHASE 42  unt 0 0 0 0 TOTAL PHASE 45  0 0 TOTAL PHASE 45  0 0 TOTAL PHASE 45  0 0 TOTAL PHASE 45	Non-Part Non-Part Non-Part Non-Part Non-Part Particip 179,400 \$3  Federal Federal Participating Participating \$1,000 Participating \$25.0ct.99

Four Years: Five Years:

Comments:

		PLUKIUA I DISTRICT SI	VEN RIGHT OF	F TRANSPORTATIO WAY COST ESTIMA	TE	PBS&J#: 700149.06
P#:	2550991	Former WPW:	7113826	Santanas (n. 1911). A santa de la compansión de la compan	District:	Seven
r#: County:	Hills./Pasco	FAP No.:	N/A		Date:	26-Dct-99
State Rd.:	39	Alternate:	POND P2A		C.E. Sequence #:	N/A
roject Des.	SR 39 from 1-4 to US 30	1		full-rand Da	la entere	
arcels:	Gross Net			Estimated Re Business	iucatees:	8
បន់ពេចនង	0	Count incl. in ma	intine parce:	Residentia!		0
esidential	0	0		Signs		0
nimproved	U			Special		0
otal Parcels	0	0		Total Reloca	lees	Ū
	and the state of t			and the state of t	Amount	Federal Aid
	OSTS (PHASE 41)	0 x	6,500	Rate)	0	Partic <del>i</del> pating
. Direct Labor ( !. Indirect Over)	,	— <u> </u>	NIA	Rate)	0	Participating Participating
. multect over I. (Participating		0 + (Non-Pa	rticipating	<b>=</b> 0)	TOTAL PHASE 41	
THE RESERVE OF THE PARTY OF THE	ALL PROPERTY AND AND ADDRESS OF A STATE	Control of the Contro	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		<u> </u>	Amount
IW DPS (PHAS				0 Parceis x	12,000	9 Participating
Appraisat Fe	es Through Trial mage CPA Fees Through	Trial		0 Claims x	19,000	0 Non-Partic.
	er & Process Servers	75% x	a	= 0 Parcels x	500	0 Participating
ι. Court πυμυτί '. Expert Witne		75% ×	0	≖ 0 Parcels x	30,000	0 Participating
. Expert With	113	50% x	0	= 0 Parceis x	2,400	8 Participating
	Asb. Abate., Survey, etc.			0 imprvmt x	15,000	0 Participating
ID. Miscellaneo				Per Project		15,000 Participating
l I. Appraisal Fe				N/A Parcels x	5,000	0 Participating
2. (Participation		5,000) + (Non-Pa	rticipating	= 0}	TOTAL PHASE 4B	\$15.00
	TS (PHASE 43)				Amount	Subtotal
1711 LAND 003	vements & Severance Da	manas/Cost to Cure				
i S. Lanu, mipro Amount	Vallients of Severance D	130% * Desi	ign plan stage		0	Participating
Amount 14. Water Rete		************	30% (O parcels wie if	RIW Acq	181,376	Participating
15.	100,00 mit. 100,00		SUBTOTAL (Lin			181,376
		#F9/	30%	of Line 15)	24,500	Participating
le. Admin. Sett		45% x 60% x		of Line 15)	76,200	Participating
17. Litigation A		X		- )	D	Non-Partic.
18. Business Da		25% x	***************************************	- ;	0	Non-Partic.
19. Bus. Damag 20. Owner Appi	,				0	Non-Partic.
21. Owner App. 21. Owner CPA		- 0 x			0	Non-Partic.
	y Fees (Lines 16+17+16			• ;	40,300	Non-Partic.
23. Owner Exp				0 ) x 18,000	0	Non-Partic.
24. Other Cond		0 x		<b>\$500</b>	0	Participating
25.			SUBTOTAL (line		A STATE OF THE PARTY OF THE PAR	141,000
26. (Participat	ing 25	(Nor	Participating	40,300	TOTAL PHASE 43	\$322.4
	ngency for design plan st			/ 4454 /FI #1	20.0-1- 4400/	
(1) PD&E	plans - 130% (2) 30%	plans 125% (3) 60	% plans - 120% (4)	90% plans - 115% (5) 20	88 Date - 110%	Name of the state
RIW ACQUISIT	ION CONSULTANT (PHA	SE 42)		•••		Federal Aid
27.				(100% Participating)	TOTAL PHASE 42	
	OSTS (PHASE 45)	NECONOTIC DE LA COMPANSION DE LA COMPANS	A CONTRACTOR OF THE CONTRACTOR			
KELUCATION	Replacement Housing		តិប្រកាប់ <del>ខ</del>	. Amoi	unt	
28. Owner		20,000 Per Unit			0	
29. Tenant				ī	<del>0</del>	
20. 722	Move Costs					
30. Residential		\$1,500 Per Unit ::			0	
31, Business/F		20,000 Per Unit				
32. Personal P	roperty	\$2,000 Per Unit	( [		<b>\$</b> D	
33. (Lines 2B t				(100% Participating)	TOTAL PHASE 45	
34. Relocation	Services Cost		\$(	] {Not in Phase Total}		
35.		erent er batterstellen med ett ett. bl. bl. b.	naga, terminakan histologia kanada kan	40,3	00 N	on-Participating
36.				297,1		articipating
37.			,	, (All Phases)	TOTAL ESTIMATE	\$337,4
early result read \$ 5 costs and	Minch all December	Signe	d: ///2/40 48	2. ~	Date:	10-26-99
Appraisal:	Mitchell Hammer N/A	Signer		<u> </u>	Date:	10 5 0
Bus. Dam. : Relocation:	Mitchell Hammer	Signe			Data:	10-26-99
	v: Terry L. Dunn	Signe			Date:	10/27/96
Cost Estimate	AND THE RESERVE TO TH	·	amount of \$	Data Input Co	mpletion Date:	, , , , , , , , , , , , , , , , , , , ,
	voquenius n. Vato					
REMARKS:						
-	Pond parcel P2A.					
ŀ						

Future Value Factors 😉	10.0%
One Year:	1.1000
Two Years:	1.2100
Three Years:	1.3310
Four Years:	1.4641
Five Years:	1,6109
	One Year: Two Years: Three Years: Four Years:

7: Bnty:			DID: 1110			Maria Company	ESTIMA		PBS&J#: 700149.0
	2550991		former WPI	Name and Address of the Owner,	7113826			District:	Seven 26-Oct-99
	Hills./Pasco		FAP No.:		N/A			Date: C.E. Sequence #:	N/A
ito Ra.:	39	. 110 000	Alternate:		POND P2B			over godgenes a.	
ject Des. rcels:	SR 39 from I-4	to US 3D1 Net	.,				stimated Re	ocates:	2
rceis: siness	0.033	0	Count incl. i	in mainli	ne parcel		Business		0
sidential	D·	0					Residential Cione	<del></del>	<u></u>
improved	0	0	-				Signs Special	···	0
and December	0 ;	O	i				Special Total Relocat	eas	0
tai Parcels		_				Constant Const	and the same of th	Amount	Federal A
	COSTS (PHASE 4	i 1) Parceis	0	x	6,500	Rate		0	Participa
Direct Labor   Indirect Over		arcels	0	x	NIA	Rate)		0	Participa
(Participating			) <del>) + (</del> N	on-Partic	ipating ≖	0	)	ITOTAL PHASE 41	
W OPS (PHAS	and the second second				<u> </u>				Amount
	es Through Trial					_	Parcels x	12,000	0 Participa 0 Non-Part
Business Da	mage CPA Fees	Through Trial					Claims x	19,000	0 Participa
Court Repor	ter & Process Se	rvers	75%	X	<u> </u>		Parceis x Parceis x	30,000	0 Participa
Expert Witn	911		75% 50%	X X		-	Parcels x	2,400	0 Participa
Mediators	Asb. Abate., Sur	way ato	100	¥			Imprvmt x	15,000	0 Participa
	Asb. Abate., Sur ous Contracts	ray, all.					Per Project		15,000 Participa
, miscellanei , Appraisal F							Parcels x	5,000	0 Participa
. (Participati		15,00	0 ) + (N	on-Parti	sipating =	. 0	}	TOTAL PHASE 4B	, , , , , , , , , , , , , , , , , , ,
	TS (PHASE 43)	National Association of the Control		-				Amount	Subtotal
, Land, Impre	vements & Seve	erance Damag	es/Cost to C	ure				•	Dunkl-!-
Amount	Đ	X	130%	* Design	plan stage	Mr A		0 153,525	Particip Particip
	ention & Mit.	118,096	×	130	(0 parcels wie /R/			193,525	153,525
i.					SUBTOTAL (Lines			***	
. Admin. Set		Factor	45%	X	30%	of Line 15		20,700	Particip Particip
, Litigation /		Factor	60%	X	76%	of Line 15	!	64,500	Non-Par
l. Business D		Claims	25%	X X	\$0 \$0	ì		0	Non-Par
Bus, Dama	,	Factor Parcels	<u>Z5%</u>	X X	\$10,000	,		0	Non-Par
i, Owner App i, Owner CP/		Claims	0	x	\$10,000	j		Ð	Non-Par
	ty Fees (Lines 16			x	40%	)		34,100	Non-Par
3. Owner Exp		Businesses	0	+	Unimproved	0	_} x 18,000	0	Non-Par
4. Other Con		(Parcels	0	x		\$500	_}	0	Particip 119,300
5.	.•	200 **	nn 1	(Nan Pi	SUBTOTAL (lines	(16 thru 24 1 (34,10		TOTAL PHASE 43	113,300
6. (Participa		238,70		· (man-1'8	erticipating	34,100	<u>. '</u> '	AVIALI HADE TO	
	ngency for desig Splans - 130%			3) 60% i	olans - 120% (4) 9	0% plans · 1	15% (5) 26	8 Date - 110%	
	ION CONSULTA								Federal
7.	VOIRDULIM	, 117.01. 4				{100% Par	ticipating)	TOTAL PHASE 42	
	COSTS (PHASE	45)			Access to the second se				
	Replacement	Housing			Number		Amo		
0. Owner			00 Per Unit	X	0			<u>0</u>	
		\$10,0	00 Per Unit	X	······································			<del></del>	
9. Tenant	и		00 Per Unit	x	0			0	
	Move Costs	41 E		^					
IO. Residentia	d		00 Per Unit	х	C			0	
0. Residentia 1. Business/l	it Farm	\$20,0			0 8	•		<del>\$0</del>	
0, Residentia 1, Business/I 2, Personal I	arm Property	\$20,0	00 Per Unit	X	0		rticipating)		
0. Residentia 1. Business/I 2. Personal I 3. (Lines 28 I	arm Property	\$20,0	00 Per Unit	X			rticipating) ase Total)	TOTAL PHASE 45	
0. Residentia 1. Business/I 2. Personal I 3. (Lines 28 4. Relocation	il Farm Property thru 32)	\$20,0	00 Per Unit	X	0		rticipating) ase Total) 34,1	TOTAL PHASE 45	ion-Participating
0. Residentia 1. Business/I 2. Personal I 3. (Lines 28 1 4. Relocation 5.	il Farm Property thru 32)	\$20,0	00 Per Unit	X	0	(Not in Ph	rticipating) ase Total) 34,1 253,7	10 (TOTAL PHASE 45)	articipating
0. Residentia 1. Business/I 2. Personal I 3. (Lines 28 I 4. Relocation 5.	il Farm Property thru 32) I Services Cost	\$20,0 \$2,0	00 Per Unit 00 Per Unit	X X	0	(Not in Ph	rticipating) ase Total) 34,1	TOTAL PHASE 45  OO N OO P TOTAL ESTIMATE	articipating .
0. Residentia 1. Business/ 2. Personal I 3. (Lines 28 t 4. Relocation 5. 6. 7.	il Farm Property thru 32)	\$20,0 \$2,0	00 Per Unit 00 Per Unit	x x Signed:	0	(Not in Ph	rticipating) ase Total) 34,1 253,7	TOTAL PHASE 45  TOTAL PHASE 45  OO N  TOTAL ESTIMATE  Date:	articipating
0. Residentia 1. Business/l 2. Personal I 3. (Lines 28 d 4. Relocation 5. d 6. d 7. sppraisal: Bus. Dam. :	al Farm Property thru 32) o Services Cost Mitchell Han NIA	\$20,0 \$2,0	00 Per Unit	x x Signed: Signed:	0	(Not in Ph	rticipating) ase Total) 34,1 253,7	TOTAL PHASE 45  TOTAL PHASE 45  OO P  TOTAL ESTIMATE  Date: Date:	articipating .
0. Residentia 1. Business/ 2. Personal I 3. (Lines 28: 4. Relocation 5. 6. 7. Appraisa): Nus. Dam.: Relocation:	al arm Property thru 32) Services Cost Mitchell Han N/A Mitchell Han	\$20,0 \$2,0	OD Per Unit	x x Signed: Signed: Signed:	0	(Not in Ph	rticipating) ase Total) 34,1 253,7	TOTAL PHASE 45  TOTAL PHASE 45  OO P  TOTAL ESTIMATE  Date: Date: Date:	articipating .
0. Residentia 1. Business/I 2. Personal I 3. (Lines 28: 4. Relocation 5. 6. 7. ppraisal: us. Dam.: lelocation: lverall Revie	Altram Property thru 32) Services Cost  Mitchell Han N/A Mitchell Har w: Terry L. Dun	\$20,0 \$2,0	OD Per Unit	x x Signed: Signed: Signed: Signed:	10 \$0 May 15	(Not in Ph	rticipating) ase Total) 34,1 253,7	TOTAL PHASE 45  TOTAL PHASE 45  OD P  TOTAL ESTIMATE  Date: Date: Date: Date: Date:	articipating .
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29. Tenant 30. Residentiz 31. Business/ 32. Personal I 33. (Lines 28 i 34. Relocation 35. 36. 37. Appraisal: Bus, Dam. : Relocation: Overall Revie	al arm Property thru 32) Services Cost Mitchell Han N/A Mitchell Han	\$20,0 \$2,0	OD Per Unit	x x Signed: Signed: Signed:	0	(Not in Ph	rticipating) ase Total) 34,1 253,7	TOTAL PHASE 45  TOTAL PHASE 45  OD P  TOTAL ESTIMATE  Date: Date: Date: Date: Date:	articipating

				PARTMENT OF	24 V 0003		1 6	PBS&J#:700149.06
-		DISTRIC	T SEV	N RIGHT OF W	AN FOR	CO I HAIN		Seven
2550991	***************************************	Former WP	<b>1#</b> :	7113826			District:	26-0ct-99
Hills./Pasco								NIA
	A to HC 201	Alternate:		FURDIZE			,	
					1	stimated Re	locat <del>es</del> :	
	. (	Count incl.	in mainlii	ne parcel				<u> </u>
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	urvey, etc.				4		13,000	15.000 Participation
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	210 20	16 ) 🚣 🥕	Non.Partic	inating =			TOTAL PHASE 4B	\$219
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ON CONSUL	ANI (PRASE 4	<i>(</i> 2)			(100% Par	ticipatino)	TOTAL PHASE 42	
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Move Cost		<u></u> ,	,				<del>-</del>	
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ırm				0			0	
operty	\$2,0	100 Per Unit	x	0				
ru 32)							TOTAL PHASE 45	\$9
Services Cos	t			\$9,750	(Not in Ph	ase Total)		
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Services Cus	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>					1,029,8	00 P	articipating
36t AtC02 C02			٠		( #			erticipating \$1,15
Mitchell H	ammer		Signed:	11100 6	(#	1,029,8	TOTAL ESTIMATE  Date:	articipating
	ammer		Signed:	1900 B	Marchana Caranta	1,029,8	OD P: STOTAL ESTIMATE Date: Date:	erticipating \$1,15
Mitchell H			Signed: Signed:	MAR HO	Marchana Caranta	1,029,8	TOTAL ESTIMATE Date: Date: Date: Date:	erticipating \$1,15
Mitchell H N/A	ammer		Signed: Signed: Signed:	NAM HO		1,029,8 (II Phases)	OD P: STOTAL ESTIMATE Date: Date:	erticipating \$1,15
	Hills./Pasco 19 SR 39 from I- Gross  0: 44.  OSTS (PHASE 43 arents & Se 18 (PHASE 43 arents & Se 18 (D)  Stion & Mit.  Hills of the series of	Hills./Pasco  SR 39 from I-4 to US 301  Gross Net  0: (4)  0: (4)  OSTS (PHASE 41)  DSTS (PHASE 43)  DSTS (PHASE 44)  DSTS (PHASE 45)  DSTS (PHASE 45)  DSTS (PHASE 45)  DSTS (PHASE 45)  Replacement Housing  \$20,0  \$10,0  Move Costs  \$1,5  Trim (\$20,0  \$10,0  \$10,0  \$10,0  \$10,0  \$10,0  \$10,0  \$20,0  \$1	Hills.   Peaco   SR 39 from 1-4 to US 301	Hills.   Pasco   FAP No.:   39	Alternate:   N/A	S   S   S   S   S   S   S   S   S   S	Hills.Pesco   FAP No.:   NIA   Alternate:   POND P2C	Miles   Peace   FAP No.

i		DISTRICT SEV	EN RIGHT OF W	TRANSPORTATIO AY COST ESTIMA	TE	PB\$&J#:700149.06
FP#:	2550991	Former WPL#:	7113826		District:	Seven
) I II' /	Hills./Pasco	FAP No.:	NJA		Date:	26-Oct-99 N/A
	39	Alternate:	POND P3A		C.E. Sequence #:	With
Project Des.	SR 39 from I-4 to US 301				1	
Parceis:	Gross Net			Estimated Re Business	HOCAT <del>OO</del> X:	0
Business	ARROWS THE RESIDENCE AND ADDRESS OF THE PARTY OF THE PART	Count incl. in main	line parcei	Residential		0
Residential		0		Signs	<del></del>	0
Unimproved	<u> </u>	0		Special	<del></del>	0
	<u> </u>	•		Total Reloca	tees	0
Total Parcels		0			Amount	Federal Aid
RIW SUPPORT C	OSTS (PHASE 41)		0.500	O-a-l	0	Participating
1. Direct Labor C		0 x	6,500	Rate) Rate)	0	Participat
2. Indirect Overh	ead (Parcels	0 X	N/A	0)	TOTAL PHASE 41	
3. (Participating	1 No. 2 Co.	() + (Non-Part	cipating ~			Amount
RIW OPS (PHAS	E 4B)			0.00	12.000	() Participating
4. Appraisal Fee	s Through Trial			0 Parcels x	12,000 19,000	0 Non-Partir
5. Business Dan	nage CPA fees Through Triz	ıl		0 Claims x	500	© Participa
6. Court Report	er & Process Servers	75%x	<u> </u>	0 Parcels x	30,000	D Participal
7. Expert Witne	11	75% x	0 =	D Parcels x	2,400	0 Participating
8. Mediators		50% x	<u> </u>	0 Parcels x	15,000	15,000 Participatin
	isb. Abate., Survey, etc.			1 Imprvmt x Per Project	10,000	15,000 Participa***
10. Miscellaneo				•	5,000	0 Participa
11. Appraisal Fe				N/A Parcels x	TOTAL PHASE 4B	\$5
12. (Participation	g 30,0	DG) + (Non-Pari	ticipating #	0)	100	
RIW LAND COS	TS (PHASE 43)				Amount	Subtotal
13. Land Impro	vements & Severance Dama	ges/Cost to Cure			_	<b>6</b> 2.6
-Amount	0 x	130% Dasigi	n pian stage		0	Participa Participa
14. Water Rete			0% (0 parcels w/o /R/\		173,482	Participa 473.403
15.			SUBTOTAL (Lines			173,482
	, P	AEO/	30%	of Line 15)	23,400	Participatir
16. Admin. Sett		45% x	78%	of Line 15)	72,900	Participe
17. Litigation A			*0	1	0	Non-Part
18. Business Da		0 x	\$0	1	0	Non-Part
19. Bus. Damag		25% x	\$10,000	í	0	Non-Partic.
20. Owner Appl		<del></del>	<b>\$10,000</b>	j	0	Non-Partic.
21. Owner CPA	rees (Lines 16+17+18+1		40%	j	38,500	Non-Part <sup>r</sup>
22. Detend. Att 23. Owner Expe		0 +	Unimproved	0 ) x 18,000	0	Non-Part
24. Other Cond				\$500	0	Participa
1	ciiii. Custa (Faiceis	^	SUBTOTAL (lines			134,800
25.	ing 269,8	100 ) + (Non-F	Participating	38,500 }	TOTAL PHASE 43	<b>\$</b> 308.
26. (Participati	gency for design plan stage	<u></u>	, -		Ç	
uesign contin	plans - 130% (2) 30% pla	ns 125% (3) 60%	plans - 120% (4) 90	1% plans - 115% (5) 20	68 Data - 110%	
						Federal Aio
3	ION CONSULTANT (PHASE	4Z)		14000/ P41-111	TOTAL PHASE 42	, 0001 B1 A10
27.				(100% Participating)	ATOTAL PRASE 42	
RELOCATION C	OSTS (PHASE 45)					
	Replacement Housing		Number	Amo		
28. 0wner		000 Per Unit x	0	w	-0	
29. Tenant		000 Per Unit x	0		0	
	Move Costs		=		0	
30. Residential		500 Per Unit x	0		<u>D</u>	
100, 11001001111	±20	000 Per Unit x	0		0	
31, Business/f					40	
31, Business/F 32, Personal P	roperty \$2,	000 Per Unit x	G		\$0	
31, Business/F 32, Personal P 33, (Lines 28 ti	roperty \$2, hru 32)		0	(100% Participating)	\$0 ITOTAL PHASE 45	
31, Business/F 32, Personal P	roperty \$2, hru 32)				TOTAL PHASE 45	
31, Business/F 32, Personal P 33, (Lines 28 ti 34, Relecation	roperty \$2, hru 32)		0	(100% Participating)	TOTAL PHASE 45	on-Participating
31, Business/F 32, Personal P 33, (Lines 28 to 34, Relecation 35,	roperty \$2, hru 32)		0	(100% Participating) (Not in Phase Total)	TÖTAL PHASE 45	articipating
31. Business/F 32. Personal P 33. (Lines 28 to 34. Relecation 35. 36.	roperty \$2, hru 32)		0	(100% Participating) (Not in Phase Total) 38,5	TOTAL PHASE 45	articipating
31. Business/f 32. Personal P 33. (Lines 28 ti 34. Relecation 35. 36. 37.	roperty \$2, hru 32) Services Cost	000 Per Unit x	0 \$0	(100% Participating) (Not in Phase Total) 38.5 299,8	TOTAL PHASE 45  00 N 00 P TOTAL ESTIMATE	articipating \$3sc
31. Business(F 32. Personal P 33. (Lines 28 ti 34. Relocation 35. 36. 37. Appraisal:	roperty \$2, hru 32) Services Cost  Mitchell Hammer	000 Per Unit x Signed:	10 10	(100% Participating) (Not in Phase Total) 38.5 299,8	TOTAL PHASE 45  OO N OO P  TOTAL ESTIMATE  Date:	
31. Business/F 32. Personal P 33. (Lines 28 ti 34. Relocation 35. 36. 37. Appraisal: Bus. Dam. :	roperty \$2, hru 32) Services Cost  Mitchell Hammer N/A	DDO Per Unit x Signed: Signed:	10 10	(100% Participating) (Not in Phase Total) 38.5 299,8	TOTAL PHASE 45  000 N  000 P  TOTAL ESTIMATE  Date:  Date:	articipating \$3sc
31. Business/F 32. Personal P 33. (Lines 28 ti 34. Relocation 35. 36. 37. Appraisal: Bus. Dam. : Relocation:	Mitchell Hammer N/A Mitchell Hammer	D00 Per Unit x  Signed: Signed: Signed: Signed:	so so	(100% Participating) (Not in Phase Total) 38.5 299,8	TOTAL PHASE 45  000 N  000 P  TOTAL ESTIMATE  Date:  Date:  Date:  Date:	articipating \$350
31. Business/F 32. Personal P 33. (Lines 28 to 34. Relocation 35. 36. 37. Appraisal: Bus. Dam. :	Mitchell Hammer NIA Mitchell Hammer V: Terry L. Dunn	Signed: Signed: Signed: Signed: Signed:	so so	(100% Participating) (Not in Phase Total) 38.5 299.8 (All Phases)	TOTAL PHASE 45  000 N  000 P  TOTAL ESTIMATE  Date: Date:	articipating \$35

X Type C · indicates below average confidence Type D · indicates the least or no confidence	Three Years: Four Years: Five Years:	1.4641 1.6105
The following indicates the Department's purpose for this estimate: Work Program Update: X Special Purpose: Comments:		

asco .	Former Wi			WAY COST ESTIMA		PBS&J#: 700149.06
•	FORTING W.	DI#	7113826		District:	Seven
	FAP No.:	ET.	N/A		Date:	26-0ct-99
	Alternate:		POND P3B		C.E. Sequence #:	NIA
from I-4 to US 301						
ss Net				Estimated R	elocatees:	^
0	D Count incl	. in mainlin	e parcel	Business		0
	0			Residential		<u> </u>
0.	0			Signs		0
	•			Special Total Reloc		0
6.	0	namen attendance	tation (in Agraphy), the transport of the control o	IDIAI NAIUC		Federal Aid
PHASE 41)						
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(Parcels						Participatir
	0) + {/	Yon-Partici	pating	× U)	HUIAL PHASE 41	
The second secon	JOSEPH TO SERVICE STREET, TO SER	***************************************				Amount
uch Trial				O Parcels x		O Participatio
'A Fees Through Trin	al			0 Claims x		0 Non-Partic.
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	75%	x	0	≂ 0 Parcels x		0 Participatii
	50%	x	0	= 0 Parcels x		0 Participatio
ite., Survey, etc.				0 Imprvmt x	15,000	0 Participatii
				Per Project		15,000 Participatis
				N/A Parcels x	5,000	0 Participati
	00) + (	Non-Partici	pating	= <b>C</b> )	TOTAL PHASE 4B	<b>1</b> 15
SE 43)	(Agestopessions environment	(besterlik destationer)		<u>et en tete francisco en en el francis de appelledada estada el</u>	Amount	Subtotal
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		X		J		Non-Partic
(Parcels		X		}		Non-Partic
(Claims		x		1		Non-Partic
		x		1		Non-Partic
		+	Unimproved			Non-Partic
sts (Parcels	0	X			0	Participati
				•		126,700
		+ (Non-Par	ticipating	36,200	IUTAL PHASE 43	1289
		m env : t	1207 /61	106/ -/ 4450/ /F! **	CO Data 1100/	
The state of the s		isi ou% pla	ms · 120% (4) 5	uzepians · 115% (5) Z	yo <b>ya</b> ta 11071	
isultant (Phase #	12}					Federal Aid
				(100% Participating)	ITOTAL PHASE 42	
HASE 45)						
				Amo		
		×			0	
	100 Per Unit	x	0		0	
		X				
		x				
\$2,0	100 Per Unit	x	0		Named To American Street, and the Control of the Co	
					IUTAL PHASE 45	······································
s Cost			\$0			
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				(All Phases)	TOTAL ESTIMATE	<b>\$30</b> 4
ieli Hammer	A SAME OF THE SAME	Signed:	147.74		Date:	10-26-49
***************************************		Signed:			Date:	
nell Hammer		Signed:	MANA	#	Date:	10-26-99
		Signed:			Date:	10/27/00
L. Dunn		In the amo				
	PHASE 41)  (Parcels  (Parcels  (Parcels  (Parcels  PA Fees Through Trial  (Sa Servers  Mit. 125,460  (Factor (Factor (Claims  3. (Factor (Parcels (Claims  4.10,460  PHASE 45)  RECEMBER (2) 30% plan  PHASE 45)  RECEMBER (4)  PHASE 45)	PHASE 41)  (Parcels (Parcels (Parcels 0) + (1)  PA Fees Through Trial pocess Servers 75% 50%  ste Survey, etc.  (racts (Parcels 0) x 130%  Mit. 125,460 x  (Factor 45% (Factor 60% (Claims 0 (Claims 0 (Claims 0 (Claims 0 (Claims 0 (Parcels 0 (Parcels 0 (Parcels 0 (Parcels 0 (Claims 10) (Claims 10)  (SE 43)  S. (Factor 25% (Parcels 0 (Parcels 0 (Claims 10) (Claims 10)  (Claims 10)	PHASE 41	PHASE 41    (Parcels   0   x   N/A     0   + (Non-Participating	PHASE 41)  (Parcels 0 x N/A Rate)  (Parcels x 0 x O)  (Claims x O)  (Claims x O = O Parcels x O Parcels x O Claims x O Parcels	PHASE 41)  (Parcels 0 x 0,500 Rate) 0 1  (Parcels 0 x NIA Rate) 0 0  (Parcels x 12,000 0 0  (Parcels x 12,000 0 0  (Parcels x 19,000 0 0 0  (Parcels x 19,000 0 0 0 0 0 0 0 0 0  (Parcels x 19,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

The following indicates the Department's purpose for this estimate:

X Special Purpose:

Work Program Update:

1.4641 1.6105

Five Years:

		Seven H	ICH I UF W	AY COST ESTI	MATE	PBS&J#:700149.06
	Former WPW:	7113	The Control of the Co	tanggan at samu an daga daga samu an ma	District:	Seven
<b>S</b> CO	FAP No.:	NIA			Date:	28-Oct-99 NJA
	Alternate:	PON	D P3C		C.E. Sequence #:	nia
om I-4 to US 301					d Data anto a	
s Net					d Relocatees:	0
0 0	Count incl. in r	nainline par	cel	Busines		0
0 0				Resident	181	<del></del>
0 0	•			Signs		0
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		Angelon School Control		TOLAT NO	والمراوع والمراوع والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية	Federal Aid
1ASE 41)						Participatin
(Parcels	0	х				•
(Parcels	0	х				Participati
0	} + {Non-	Participatin	g =	U)	HUIAL PHASE 41	
A CONTRACTOR OF THE PROPERTY OF THE PARTY OF	and the property desired to the second		ATTION OF THE PERSON			Amount
h Trial				0 Parcels	x 12,000	0 Participatin
Cane Through Trial				D Claims	x 19,000	0 Non-Partic
	75%		0 =			0 Participat
ess Servers				*		0 Participat
	***************************************	***************************************				0 Participatio
	7070	<u> </u>				0 Participatin
				•		15,000 Participat
						0 Participat
		Omerical cal				11
15,000	)} + {Mon∙	rarticipatir	ig ≅	U )		***************************************
E 43)					Amount	Subtotal
	as/Cost to Cure					
	130% D	asign plan s	taga		<u> </u>	Participat
	X			/ Acq	121,035	Participat
						121,035
					10 200	Participati
						Participat
(Factor	-	х		of Line (5)		Non-Parti
(Claims		х		)		Non-Parti
(Factor	25%	х		}		
(Parcels	0	x		}		Non-Partic.
(Claims	0	х		)		Non Partic
nes 16+17+18+19)	, <del></del>	x	40%	}		Non-Partir
	0	+ 1	nimproved	8 ) x 18,1		Non Parti
	0	x		\$500 )	0	Participat
	<del></del>	SU	BTDTAL (lines	16 thru 24)	WAR THE TAXABLE PARTY.	93,900
188,10	0 ) + (6	on-Participa	ating	26,800)	TOTAL PHASE 43	\$214
r dasign plan stage.	····					
30% (2) 30% plans	s · 125% (3)	60% plans	120% (4) 90	% plans - 115% (	5) 268 Dato - 110%	
						Federal Air
SULTANT (PHASE 42	.}			tenner namelalasia	-) STOTAL BUSCE AS	1000101
				(100% Participation	gi (TUTAL PHASE 42	
HASE 45)	Color Color					
			Number		Amount	
	D Per Unit	x	0		0	
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Market Committee				-		
	If Par Unit		n		0	
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+4,00	TO THE OWN	^		(108% Participation		····
A			<b>\$</b> 0	(Not in Phase Total	The state of the s	<u> </u>
Cost			<b></b>	and the second s	and the second s	
						-Participating
						icipating
				(All Phase	s) TOTAL ESTIMATE	\$22
		ned:	10-12-4		Date:	10-26-97
d Bonner	Çin.	, ruu.	1111			
ell Hammer		ned:			Date <sup>*</sup>	
	Sign	ned:	101-1-1-1		Date:	10-26-49
el! Hammer	Sign	ned:	MARK A		Date:	10-26-99
	Sigi Sigi Sig		Mark A			10-26-99
THE CONTRACT OF THE CONTRACT O	O O O O O O O O O O O O O O O O O O O	O	O	Costs   Cost	Special Total Re	Special   Total Relocates   Total Relocates   Total Relocates

The following indicates the estimator's confidence in the above estimate:

Type A - indicates the most confidence

The following indicates the Department's purpose for this estimate:
Work Program Update: X Special Purpose:

Type B indicates above average confidence
Type C indicates below average confidence
Type D indicates the least or no confidence

Future Value Factors 🥝

One Year:

Two Years:

Three Years:

Four Years: Five Years:

Comments:

10.0% 1.1000

1.2100

1.3310

1.4641

				TRANSPORTATION		P8S&J#:70014	9.06
FP#: County: State Rd.:	2550991 Hills./Pasco 39	Former WPI#: FAP No.: Alternate:	7113826 N/A POND P4A	I	District: Date: C.E. Sequence #:	Seven 29-Nov NJA	- 1
Project Des. Parcels: Business Residential Unimproved	SR 39 from I-4 to US 301  Gross Net  0 0 1 0 0 0	_		Estimated Relo Business Residential Signs Special	00m	0 2 0 0	
Total Parcels	1 1		100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to	Tetal Relocate		and a second control of the second control o	al Aid
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RIW OPS IPHAS	The second secon		North Committee			Amount	
4. Appraisal Fer 5. Business Dar 6. Court Report 7. Expert Witne 8. Mediators	es Through Trial nage CPA Fees Through Trial er & Process Servers ss .sh. Abate Survey, etc. us Contracts	75% x 75% x 50% x	1 =	1 Parcels x 0 Claims x 1 Parcels x 1 Parcels x 1 Parcels x 2 Imprymt x Per Project N/A Parcels x	12,000 19,000 500 30,000 2,400 15,000	12,000 Partie 0 Non-F 500 Partie 30,000 Partie 2,400 Partie 30,000 Partie 15,000 Partie 0 Partie	Partic. cipating cipating cipating cipating cipating cipating cipating
12. (Participation	g 89,90	D) + (Non-Partic	cipating =	0)	TOTAL PHASE 4B	.,	\$89,900
Amount 14. Water Rete	vements & Severance Damag	130% * Design	pian stage % (0 parce}s wio iRi		Amount 0 255,586	Parti	cipating cipating
23. Owner Expe 24. Other Cond 25. 26. (Participati	wards (Factor mages (Claims ses Incrs. (Factor . Fees (Parcels Fees (Claims y Fees (Lines 16+17+18+19 rt Witness (Parcels mn. Costs (Parcels mg 397.90	0 + 1 x	\$UBTOTAL (Lines  30% 70% \$3 \$0 \$10,000 \$10,000 40% Unimproved  \$UBTOTAL (lines rticipating	of Line 15) of Line 15) ) ) ) ) ) 0   1x 18,000	34,500 107,300 0 0 10,000 0 56,700 0 500	Parti Non- Non- Non- Non- Non- Non-	cipating cipating Partic. Partic. Partic. Partic. Partic. Partic. icipating
	gency for design plan stage: plans 130% (2) 30% plan	e . 125% (3) 60% n	lans - 120% (4) 90	7% plans - 115% (5) 268	Date - 110%		
	ON CONSULTANT (PHASE 42	The same of the sa	ans 12070 (4) 30	(100% Participating)	TOTAL PHASE 42		ral Aid \$0
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33. (Lines 28 t) 34. Relocation	ru 32)	0 ) st on:	\$3,300	(100% Participating) (Not in Phase Total)	TOTAL PHASE 45	outh to the control of the control o	\$33,000
35. 36. 37.				66,700 527,300 (All Phases)		Non-Participating Participating	\$594,000
Appraisal: Bus. Dam. : Relocation: Overall Review Cost Estimate :	<del></del>	Signed: Signed: Signed: Signed: In the am	May Admount of \$	Data Input Comp	Date: Date: Date: Date: Date: Date:	11-34-41 11-24/95 11/29/99	
REMARKS:	Pond parcel P4A.						

e following indicates the estimator's confidence in the above estimate:	Future Value Factors @	10.0%
Type A - indicates the most confidence	One Year:	1.1000
Type B indicates above average confidence	Two Years:	1.2100
X Type C indicates below average confidence	Three Years:	1.3310
Type O indicates the least or no confidence	Four Years:	1.4641
······································	Five Years:	1.6105
he following indicates the Department's purpose for this estimate:		
Vork Program Update: X Special Purpose: Comm	nents:	

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C C D A -	Andreas and the second of the second		VAY COST ESTIMA	District:	PBS&J#:700149.06 Seven
550991	Former WPI#:	7113B26 N/A		Date:	26-0ct-99
lills./Pasco	FAP No.: Alternate:	POND P4B		C.E. Sequence #:	NIA
9 SR 39 from I-4 to US 301	Miteriate.	10/10/1-			
Gross Net			Estimated Re	docatees:	ũ
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ad (Parcels				COTAL PHASE 41	\$1
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4B)				40.000	36,000 Participat
: Through Trial					0 Non-Parti
age CPA Fees Through Ts	rial				1,000 Participat
r & Process Servers	75% x	3			60,000 Participat
s					4,800 Participat
	50% x	3 :	*		30,000 Participat
b. Abate., Survey, etc.			•		15,000 Participat
s Contracts			,		0 Participa
Review		38 8 - 48 S	•		\$14
	,₩UU} + {Non-Pa	irticipating	~ V /	a land a second	Subtotal
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ements & Severance Dan	nages(Cost to Cure			•	Participa
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	3 x			280,409	280,409
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amante (Energy	45% v	30%	of Line 15)	37,900	Participa
			of Line 15)	117,800	Participa
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mn. Costs (Parcels	3 )	¢ .		1,500	Participa
	<u> </u>	SUBTOTAL (line			257,500 #5
ng 437	/,600 ) + {Nor	n-Participating	100,300)	IUTAL PHASE 43	<b>†</b> 3.
pency for design plan sta	ga:			000 0-A- 4400/	
olans - 130% (2) 30% p	lans 125% (3) 60	1% plans - 120% (4) 5	90% plans - 115% (5) Z	oo Date - 1707	
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			(100% Participating)	TOTAL PHASE 42	
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ги 32)			(100% Participating)	TOTAL PHASE 45	
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Mitchell Hammer N/A Mitchell Hammer	Signe Signe	ad:	646. (All Phases)	900 Pa TOTAL ESTIMATE Date:	orticipating
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1.4641 1.6105

Four Years: Five Years:

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				26-Oct-99
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		(Not in Phase Total) 20,90 161,60	Date: Date:	rticipating \$182,500 /0-26-99
	Former WPW: FAP No.: Alternate:    0	Former WPW: 7113826 FAP No.: N/A Alternate: POND P4C     0	Former WPW: 7113826 FAP No.: N/A Alternate: POND P4C    Estimated Re	FAP No.:

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The following indicates the estimator's confidence in the above estimate:	Future Value Factors 🙉	10.0%
Type A - indicates the most confidence	One Year:	1,1000
Type B · indicates above average confidence	Two Years:	1.2100
X Type C · indicates below average confidence	Three Years:	1.3310
Type D - indicates the least or no confidence	Four Years:	1.4641
···	Five Years:	1.6105
The following indicates the Department's purpose for this estimate:		
Work Program Update: X Special Purpose: Com	ments:	

		010111101	OF A PIR INDINI OF	WAY COST ESTIMA		PBS&J#:700149.06
#:	2550991	Former WPW	and the first production with the expension of the second section of the second second section of the second secon		District:	Seven
	Hills./Pasco	FAP No.:	NIA		Date:	26-Oct-99 N/A
tate Rd.:	39	Alternate:	POND P5A		C.E. Sequence #:	BJA .
roject Des.	SR 39 from I-4 to US 301			Estimated Re	Incataet:	
arcels:	Gross Net			Business	ithrataes.	0
usiness	0 · 0 :	0		Residential		1
exidential	0;	<del></del>		Signs		0
nimproved				Special		0
otal Parcels	o <sup>i</sup>	1		Total Reloca	tees	
	OSTS (PHASE 41)	the Arthur Salaman Control of the St.	<u>a pagagaga a managa a paga paga panaban da bababah bababa</u>		Amount	Federal Aid
. Direct Labor Co		1	x 6,500	Rate)	6,500	Participating
. Indizect Overh	• • • • • • • • • • • • • • • • • • • •	1	x N/A	Rate)	0	Participati \$1
(Participating	6,	500) + {No:	n-Participating	= 0)	TOTAL PHASE 41	
W DPS (PHASE	4B)		-			Amount
. Appraisal Fee:				1 Parcels x	12,000	12,000 Participating 0 Non-Partic
Business Dam	age CPA Fees Through To	ial		D Claims x	19,000	500 Participat
. Court Reporte	r & Process Servers	75%	x <u>'</u>	= 1 Parcels x	30,000	30,000 Participate
. Expert Witnes	35	75%	x 1	= 1 Parcels x	2,400	2,400 Participating
. Mediators		50%	x 1	1 Imprvmt x	15,000	15,000 Participating
	sb. Abate., Survey, etc.			Per Project		15,000 Participat
0. Miscellaneou				N/A Parcels x	5,000	0 Participat
1. Appraisal Fee 2. (Participating		900) + (No	n-Participating	<b>=</b> 0)	TOTAL PHASE 4B	<b>\$7</b> .
Name and Address of the Owner, where the Owner, which is the Owne	and the contract of the contra		Secretaria de la companya de la comp		Amount	Subtotal
NW LAND COST	S (PHASE 43)	annelCost to Civi	•			
	ements & Severance Dan (0) x	130%	o Design plan stage		(0)	Participa!
Amount 14. Water Reter		****	130% (0 parcels w/o	R/W Acq	82,216	Participat
14. Water neter 15.	ICIDII & WIIC. 03,240		SUBTOTAL (Lis			82,216
		450/	x 30%	of Line 15)	11,100	Participating
16. Admin. Settl		45% 60%	x 30% x 70%		34,500	Participa <sup>1</sup>
7. Litigation Av		007	x \$1	<u> </u>	0	Non-Parti
18. Business Dai 19. Bus. Damage		25%	x \$1	•••	0	Non-Parti
20. Owner Appr.			x \$10,000	י דֿ ( ) י דֿ ( )	10,000	Non Partic.
21. Owner CPA		0	x \$10,00	<b>0</b> )	0	Non Partic.
22. Defend. Atty	Fees (Lines 16+17+18+	19)	x 48%		1B,200	Non-Parti
23. Owner Expe			+ Unimproved	1 ) x 18,000	18,000 500	Non-Parti Participat
24. Other Conde	mn. Costs (Parcels	1	X	\$500 )	300	92,300
25.	4.50			nes 16 thru 24) 45,208 )	TOTAL PHASE 43	\$174,5
26. (Participatis			Non-Participating	40,200 [	CONTRACTOR OF	
* Design conting	gency for besign plan stag	iane i 125% - /3:	60% plans - 120% (4)	90% plans - 115% (5) 2	68 Date - 110%	
(1) PD&E j	olans - 130% (2) 30% p	ians - 125% (3)	60% plans - 120% (4)	90% plans - 115% (5) 2	68 Date - 110%	Federal Ato
(1) PD&E) R/W ACQUISITI	o <i>ians - 130% (2) 30% p</i> On Consultant (Phase	ians - 125% (3)	60% plans · 120% (4)			Federal Ato
(1) PD&E) R/W ACQUISITI 27.	<i>olans · 130% (2) 30% p</i> On Consultant (Phase	ians - 125% (3)	60% plans • 120% (4)	90% plans - 115% (5) 2-	TOTAL PHASE 42	Federal Ato
(1) PD&E) R/W ACQUISITI 27.	olans - 130% (2) 30% p on Consultant (Phase osts (Phase 45)	ians - 125% (3)		(100% Participating)	TOTAL PHASE 42	Federal Aug
(1) PD&E   RIW ACQUISITI 27. RELOCATION C	olans - 130% (2) 30% p ON CONSULTANT (PHASE OSTS (PHASE 45) Replacement Housing	ians - 125% (3) [42]	Numbo	(100% Participating)	TOTAL PHASE 42	Federal Ato
(1) PD&E ) RIW ACQUISITI 27. RELOCATION CO 28. Owner	olans - 130% (2) 30% p ON CONSULTANT (PHASE OSTS (PHASE 45) Replacement Housing \$26	(3) (42) (5),009 Per Unit	Numbo x	(100% Participating)  ar Amo 1 20,0	TOTAL PHASE 42 unt 00	Federal Ato
(1) PD&E   RIW ACQUISITI 27. RELOCATION C	olans - 130% (2) 30% p ON CONSULTANT (PHASE OSTS (PHASE 45) Replacement Housing \$20 \$10	ians - 125% (3) [42]	Numbo	(100% Participating)	TOTAL PHASE 42	Federal Aro
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(1) PD&E j R/W ACQUISITI 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential	Okaris	0,000 Per Unit 0,000 Per Unit 1,500 Per Unit	Number x x	(100% Participating)  ar Amo 1 20,0 6 1 1,5	TOTAL PHASE 42	Federal Ato
(1) PD&E   RIW ACQUISITI 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fa	03   03   03   03   04   05   05   05   05   05   05   05	0,000 Per Unit 0,000 Per Unit 1,500 Per Unit 1,500 Per Unit	X Number	(100% Participating)  ar Amo 1 20,0	TOTAL PHASE 42	
(1) PD&E   RIW ACQUISITI 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business(Fa 32. Personal Pr	00   00   00   00   00   00   00   0	0,000 Per Unit 0,000 Per Unit 1,500 Per Unit	Number x x x x x x x x x x x x x x x x x x x	(100% Participating)  ar Amo 1 20,0 0 1 1,5	UNIT OF AL PHASE 42	Federal Ato
(1) PD&E   RIW ACQUISITI 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fa	03   03   03   03   04   05   05   05   05   05   05   05	0,000 Per Unit 0,000 Per Unit 1,500 Per Unit 1,500 Per Unit	Number x x x x x x x x x x x x x x x x x x x	(100% Participating)  ar	TOTAL PHASE 42	
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(1) PD&E / R/W ACQUISITI 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pr 33. (Lines 28 th 34. Relocation :	03   03   03   03   04   05   05   05   05   05   05   05	0,000 Per Unit 0,000 Per Unit 1,500 Per Unit 1,500 Per Unit	Number x x x x x x x x x x x x x x x x x x x	(100% Participating)  er Amo 1 20,0 0 1 1,5 0 (100% Participating) (Not in Phase Total) 46,2 231,2	#TOTAL PHASE 42	\$21, on-Participating articipating
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(1) PD&E   RIW ACQUISITII 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pr 33. (Lines 28 th 34. Relocation 1 35. 36. 37. Appraisal: Bus. Dam. : Relocation:	ON CONSULTANT (PHASE ON CONSUL	0,000 Per Unit 0,000 Per Unit 1,500 Per Unit 2,000 Per Unit 2,000 Per Unit 2,000 Per Unit	Number x x x x x x x x x x x x x x x x x x x	(100% Participating)  ar	TOTAL PHASE 42  unt 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$21, on-Participating articipating
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The following indicates the estimator's confidence in the above estimate:

Type A - indicates the most confidence

The following indicates the Department's purpose for this estimate:
Work Program Update: X Special Purpose:

Type B indicates above average confidence

Type C - indicates below everage confidence

Type D indicates the least or no confidence

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Future Value Factors @

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Three Years:

Four Years:

Five Years:

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Comments:

The following indicates the Department's purpose for this estimate:

Work Program Update: X Special Purpose:

X Special Purpose: