

# FINAL CONCEPTUAL POND SITING REPORT

Work Program Item Number: 256422 1 Federal Aid Project Number: 1455-001-U

> U.S. 301 (S.R. 41) S.R. 39 to C.R. 54 Pasco County, Florida

This study evaluates pond site alternatives on U.S. 301 from S.R. 39 to C.R. 54 through Zephyrhills. A one-way pair system using 6th Street and U.S. 301 is being considered.

The approximate length of the project is 2.6 miles.



Prepared by:

Florida Department of Transportation District 7 11201 N. McKinley Drive Tampa, Florida 33612-6403

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# **SECTION 1**

# **EXECUTIVE SUMMARY**

The Florida Department of Transportation proposes to widen U.S. 301 from S.R.39 to C.R. 54 in Pasco County, Florida. The project is located in the Zephyrhills area. The widening will transform the existing 2 lane rural section of U.S. 301 into an urban section with curb and gutter. A one-way pair system with 3 lanes in each direction is proposed. U.S. 301 is to be used for northbound traffic and 6<sup>th</sup> Street for southbound traffic.

The purpose of this report is to evaluate pond site alternatives in order to recommend conceptual stormwater management facilities required due to the roadway improvements. The report will also provide the methodology proposed for the permitting of the project through the Southwest Florida Water Management District (SWFWMD) once the project goes to the design phase.

Much information regarding the floodplain and outfall data was obtained from the *Lake Zephyr Watershed Study*, 1989 by Greiner, Inc. Excerpts from this Study are included in Appendices E and F (also see References listed in Section 4 of this report).

The project is 2.6 miles in length and is divided into six basins. A total of eighteen alternative pond sites were evaluated for their potential to serve as stormwater management facilities. The four recommended pond sites were selected based on hydraulic, environmental, and economic considerations. Table 1-1 summarizes the recommended pond sites, the right-of-way cost, and Hazmat rating. More detail as to the reasoning for the selection of pond sites is included in Section 7, *Conclusions and Recommendations* of this report.

TABLE 1-1
SUMMARY OF RECOMMENDED POND SITES

Pond No.	Basin No.	Area (ac)	Total Cost \$	Relocations (Residential)	Hazmat Rating		
2-3	1	2.45	755,000	0	Medium		
2-6	2	1.20	778,100	3	Low		
2-15A	3	1.20	947,000	2	Low		
2-24	4,5,6	5.00	756,000	0	Medium		

# **SECTION 2**

# INTRODUCTION

#### 2.1 PROJECT DESCRIPTION

The Florida Department of Transportation (FDOT) is conducting a Project Development and Environment (PD&E) Study that evaluates improvement options along the U.S. 301 corridor from S.R. 39 to C.R. 54 in the Zephyrhills area of Pasco County. The U.S. 301 corridor is a north/south urban principal arterial facility located which passes through downtown Zephyrhills. The location and limits of the approximately 2.6 mile long project are shown in Figure 1. The project is located in Sections 2,3,10,11, and 14 of Township 26 South, Range 21 East. The southern portion of the project (from S.R. 39 to Avenue C) is located within unincorporated Pasco County. The northern portion (from Avenue C to C.R. 54) is located within the City of Zephyrhills. Figure 2 shows the project limits on the USGS quadrangle map.

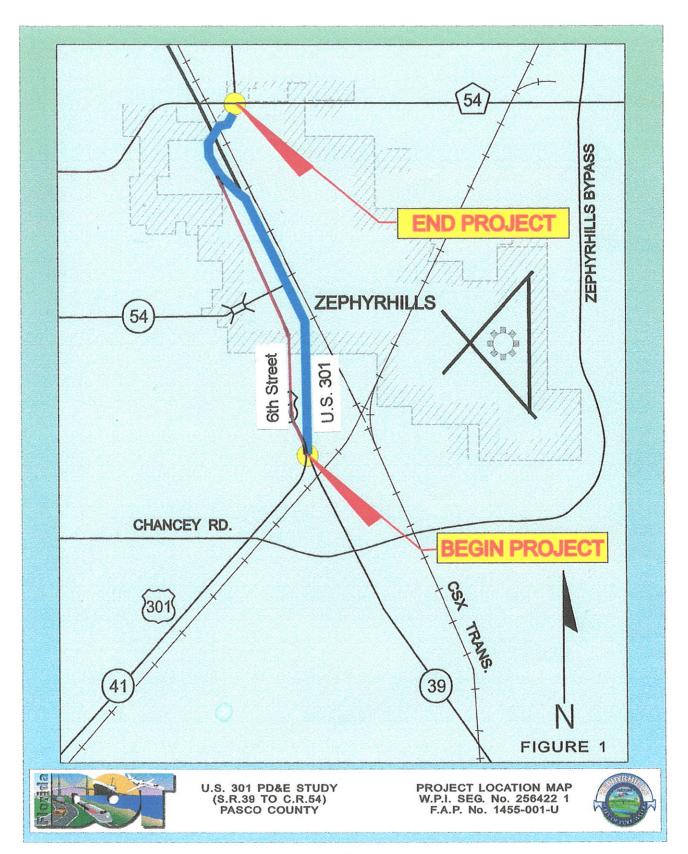
The U.S. 301 corridor is currently a two-lane rural section (open and closed drainage), FDOT-maintained roadway with four foot paved shoulders. Roadside ditches and occasional storm sewer systems convey runoff away from the road to low-lying areas adjacent to the roadway or to existing stormwater management facilities.

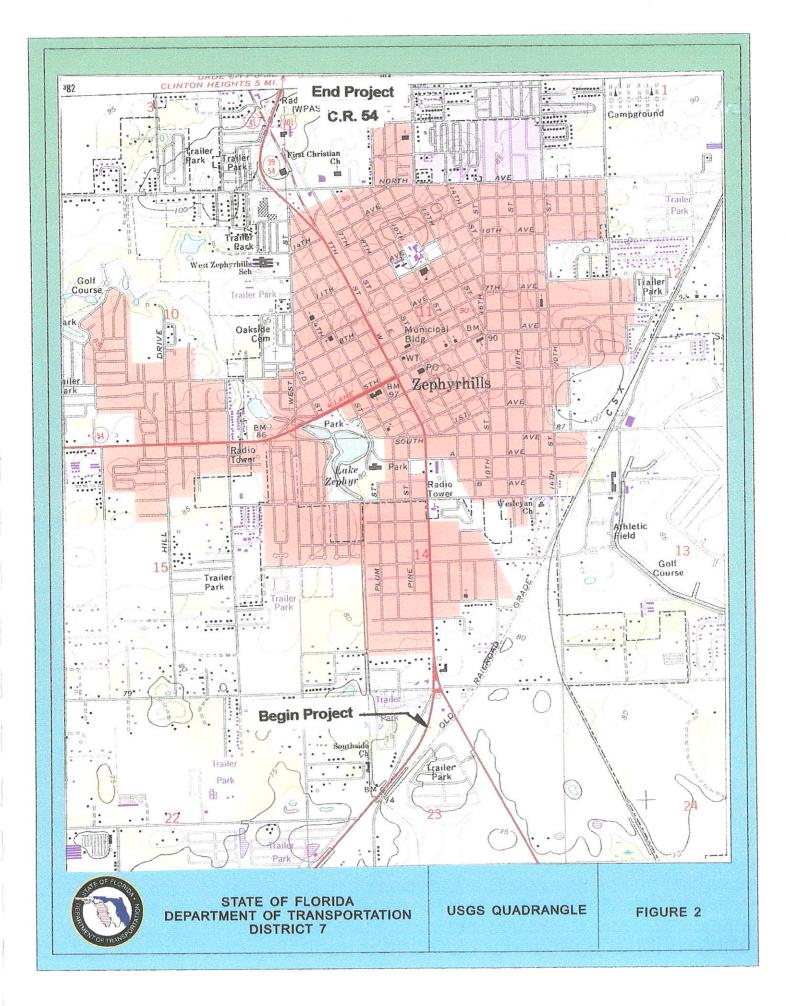
#### 2.2 PURPOSE

The objective of the PD&E Study is to provide documented environmental and engineering analyses which will help the Florida Department of Transportation (FDOT) reach a decision on the type, conceptual design, and location of the necessary improvements along the U.S. 301 corridor to accommodate future transportation needs in a safe and efficient manner. The PD&E Study also satisfies the requirements of the National Environmental Policy Act (NEPA) and other state and federal requirements in order to qualify for Federal-aid funding.

The purpose of this report is to evaluate pond site alternatives to recommend conceptual stormwater management facilities required due to the roadway improvements. The report will also provide the methodology proposed for the permitting of the project through the Southwest Florida Water Management District (SWFWMD) once the project goes to the design phase.

In November 2000, FHWA approved the PD&E study south of the project along S.R. 39 from the Hillsborough County line to the apex of S.R. 39 and U.S. 301. The FDOT Financial Project Number is FPN 2562891. Coordination with the section to the south will be required for pond location and tie-ins during the design phase.





#### 2.3 EXISTING TYPICAL SECTION

Existing U.S. 301 is currently a 2 lane rural section with 12 foot travel lanes, a 4 foot paved shoulder, and roadside ditches. The existing typical section is shown on Figure 3. 6<sup>th</sup> Street is a two lane rural section with 11 foot travel lanes. Roadside ditches along 6<sup>th</sup> Street are minimal south of S.R. 54. 6<sup>th</sup> Street is an unpaved dirt road from Jendrall Ave. to Avenue C.

#### 2.4 RECOMMENDED TYPICAL SECTION

Following the Public Hearing in April 2001, the recommended typical changed from 12-foot lanes to 11-foot for both U.S. 301 and 6<sup>th</sup> Street. The recommended typical section is shown on Figure 4. The typical is a one-way pair system using 6<sup>th</sup> Street (southbound) and U.S. 301 (northbound). The typical proposes a 3 lane urban section for both roadways with separate trunk line storm sewers. Below is a more detailed description of each one-way road.

#### 2.4.1 U.S. 301

The recommended typical section for U.S. 301 is an urban section with 3-11 foot travellanes, a 4-foot bike lane, and a 5-foot sidewalk on both sides of the roadway. The cross slope drains to the east so that the mainline storm sewer is located on the east side of the roadway under the sidewalk. The four-foot bike lane is located on the east side adjacent to the gutter.

# 2.4.2 6th Street

The proposed typical section for 6<sup>th</sup> Street is an urban section with 3-11 foot travel lanes, a four-foot bike lane, and a 5-foot sidewalk on both sides of the roadway. The typical section for 6<sup>th</sup> Street is a mirror image of the typical for U.S. 301. 6<sup>th</sup> Street cross slope drains to the west side where the mainline storm sewer would intercept the pavement runoff. The four-foot bike lane is located on the west side adjacent to the gutter.

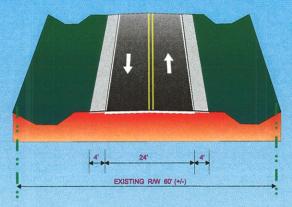
# U.S. 301 IN ZEPHYRHILLS FROM S.R. 39 TO C.R. 54

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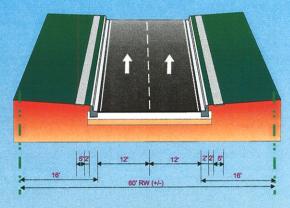
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6TH STREET



U.S. 301



7TH STREET



EXISTING
TYPICAL SECTIONS



# U.S. 301 ZEPHYRHILLS PD&ESTUDY FROM S.R. 39 TO C.R. 54

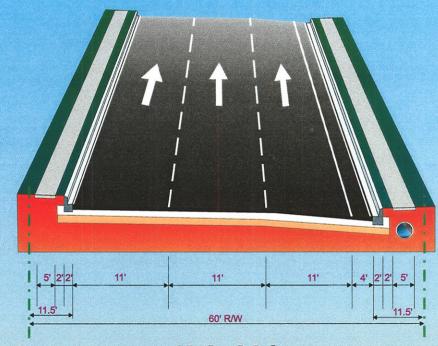
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PROPOSED THREE LANE ONE WAY TYPICAL SECTION



PROPOSED THREE LANE ONE WAY TYPICAL SECTION



U.S. 301



RECOMMENDED ALTERNATIVE



# **SECTION 3**

# STORMWATER MANAGEMENT REQUIREMENTS

This project lies within the jurisdiction of the SWFWMD and will require stormwater management systems that meet the District's criteria. An Environmental Resource Permit will be required for this project. The stormwater management systems should provide water quality requirement, peak discharge attenuation and adequate drainage.

# 3.1 WATER QUALITY REQUIREMENTS

The water quality requirements, as defined in Chapter 40D.4 of the Florida Administrative Code (FAC) and the SWFWMD Environmental Resource Permitting Information Manual, 1999 are used to quantify treatment volumes for wet detention, on-line, and off-line ponds.

The following water quality requirements were derived from Chapter 5 of the SWFWMD ERP Manual:

- (1) If off-site runoff is not prevented from combining with on-site runoff prior to treatment, then treatment must be provided for the combined off-site project runoff.
- A wet detention system shall treat one inch of runoff from the contributing area. Since Zephyr Creek is not listed as an Outstanding Florida Water (reference Rule 62-302.700 in the Florida Administrative Code), no additional treatment volume is required.

The stormwater management facilities selected for this project have been analyzed as on-line wet detention treatment systems.

## 3.2 WATER QUANTITY REQUIREMENTS

There are two jurisdictional criteria for determining water quantity volumes, which are the FDOT 14.86 and SWFWMD 40D-4. The criteria used to design the stormwater management ponds were the more stringent of the two.

#### **FDOT 14.86 Requirements**

The critical duration analysis is defined as:

"The duration of a specific storm event (i.e., 100-year storm) which creates the largest volume or highest rate of net stormwater runoff (post-developed less predeveloped runoff) for typical durations up through and including the 10-day duration event. The critical duration is determined by comparing various durations of the specified storm and calculating the peak rate and volume of runoff for each. The duration resulting in the highest peak discharge rate is the "critical duration" storm for an open basin.

## SWFWMD Criteria

Section 3.2.1.2 of the SWFWMD ERP Manual states that allowable discharge is determined based on whether or not the project is located within an open or closed basin. An open basin is defined as a watershed that has a positive outfall under gravity flow. A closed basin is defined as a watershed in which the runoff does not have a surface outfall up to and including the 100-year flood level. This majority of the project is located within open basin. The runoff within the limits of project discharges to Zephyr Creek.

The allowable discharge for an open basin is based on the historical discharge. The historical discharge is the peak rate at which runoff leaves a parcel of land by gravity under existing site conditions.

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The offsite discharges for the existing and developed condition shall be computed using the SWFWMD's 24-hour, 25-year rainfall maps and the Soil Conservation Services's type II Florida Modified 24-hour rainfall distribution with an antecedent moisture condition II.

The historic or pre-developed and post-developed discharge is determined by the 25-year /24-hour duration storm event. The pre-developed discharge runoff rate must be preserved in the post-developed condition. The peak runoff rate must be detained within the stormwater pond, which discharges at no greater than the pre-developed rate. The resulting volume within the pond is the attenuation volume.

SWFWMD was contacted regarding the attenuation requirements for this project. (Refer to Appendix A Pre-Application memo dated 8-23-00). The existing stormwater management facilities within the limits of project all discharge to Zephyr Creek.

# **SECTION 4**

# **EXISTING CONDITIONS**

## 4.1 DESIGN INFORMATION SOURCES

The design information sources used for the Pond Siting Report are listed below. One of the more useful reports was the Lake Zephyr Watershed Mater Plan by Greiner, Inc. (1989). This study was instrumental in revising the floodplain map (revised 1992).

- (1) FDOT Drainage Manual, Volume 1 Standards, 1992
- (2) SWFWMD Permit Information Manual, February 1999
- (3) SWFWMD aerials, 1980
- (4) Soil Survey of Pasco County, Florida, 1982
- (5) Field reviews by Carlos Lopez and Scott Garth (1999-2000).
- (6) FEMA Flood Insurance Rate Map Panel No. 460 (September 1992).
- (7) Aerial Photographic Maps, 1998
- (8) USGS Quadrangle Map, Zephyrhills (1998).
- (9) Lake Zephyr Watershed Stormwater and Flood Management Master Plan, Greiner, Inc. (April 1989).
- (10) Location Hydraulic Report U.S. 301 from Chancey Road to C.R. 54E, Greiner Inc., (August 1988).
- (11) Original Construction Plans U.S.301, Project No. B-940 (Fiscal Year 1935).
- (12) Old Drainage Maps, Project No. 14050-1511-01 (no date found).
- (13) Technical Proposal for U.S. 301 from Chancey Road to C.R. 54E, State Project No. 14050-1537, WPA No. 7115944; HNTB (Feb. 16, 1988).

- (14) Drainage Structure Investigation and Evaluation Report, SPN 14050-3546, WPA 7116045, S.R. 39 (U.S. 301); Coastal Engineering (August 1993).
- (15) Design Documentation U.S. 301 Zephyrhills; Coastal Engineering (March 1994).
- (16) Interviews with FDOT Maintenance personnel and outside agency officials (see Appendix for project correspondence).
- (17) PD&E Manual; Part 2, Chapter 24-Floodplains
- (18) Draft Preliminary Engineering Report, WPI No. 256422 1, May 2000
- (19) Level I Hazardous Materials Investigation, WPI No. 256422 1May 2000

#### 4.2 SOILS DATA

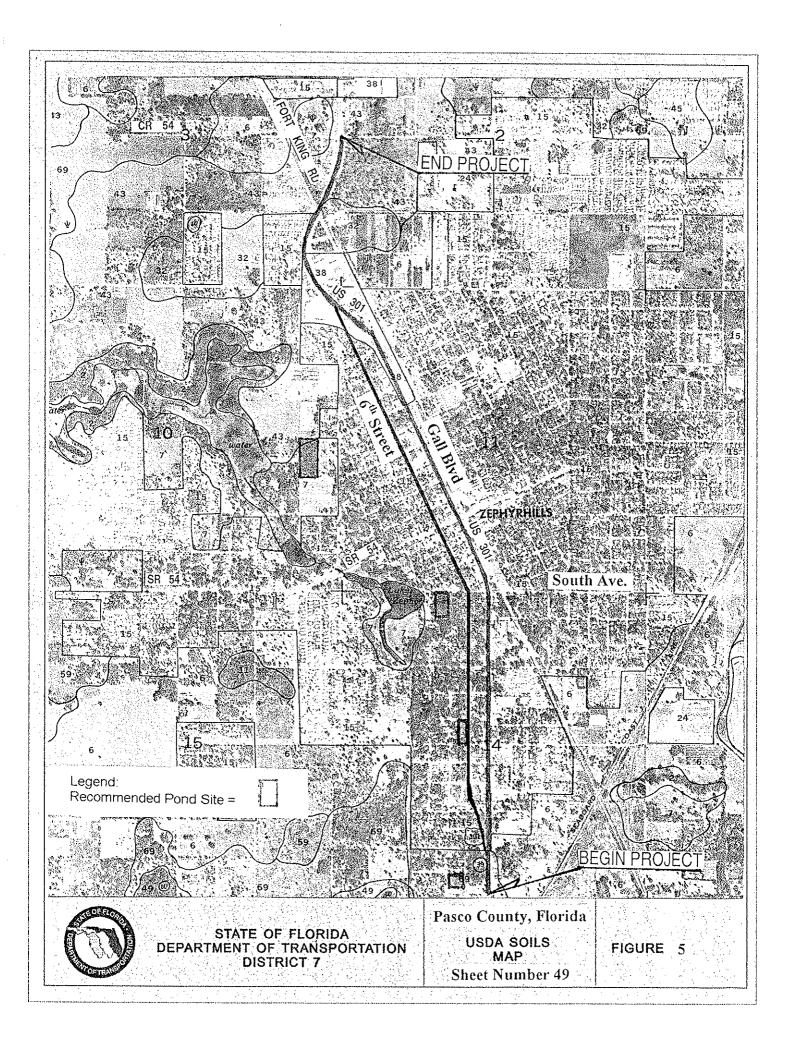
The soils within the limits of the project are categorized according to the U.S. Department of Agriculture Soil Conservation Service (SCS) <u>Soil Survey of Pasco County</u>, (1982). The predominant soil categories located within the project limits are identified in Table 4-1 below. A soils map is shown as Figure 5.

The predominant soil type within the project corridor is Tavares-Urban Land Complex that is characterized by heavy urbanization. In general, the soils are uplands, nearly level to sloping, moderately to well-drained soils that are sandy throughout. All of the soil types within the project limits are type A soil that have high infiltration rates (low runoff potential).

The seasonal high water table is at a depth of 3.5 feet or greater. Since no soil borings were performed at the pond sites, the Soil Survey was used to approximate the depth to seasonal high water table. In the design phase of the project, it is recommended that geotechnical investigation be performed at each recommended pond site. The establishment of an accurate Seasonal High Water Table (SHWT) is critical to the proper design of a stormwater management facility.

Table 4-1
Summary of Pasco County USDA / SCS Soil Survey

USDA Map Symbol and Soil Name	Hydrologic Group	Seasonal High Water Table					
		Depth (ft)	Kind	Month			
Tavares Sand (6)	А	3.5-6.0	Apparent	Jun-Dec			
Sparr (7)	С .	1.5-3.5	Apparent	Jul-Oct			
Tavares - Urban Land Complex (15)	А	3.5-6.0	Apparent	Jun-Dec			
Lake Fine Sand (32)	А	>6.0	***				
Urban Land (38)	N/A	777	***				
Arredondo Fine Sand (43)	А	>6.0		as as as			
Millhopper Fine Sand (69)	A	3.5-6.0	Perched	Aug-Feb			



# 4.3 EXISTING DRAINAGE PATTERNS AND LOCAL DRAINAGE RELATED PROBLEMS

The existing drainage patterns and basin limits were determined using several sources including USGS quadrangle maps, Southwest Florida Water Management District (SWFWMD) 1 inch = 200 feet aerial photography with 1 foot contours, and the Lake Zephyr Watershed Stormwater and Flood Management Master Plan by Greiner, Inc. (1989). Copies of the Watershed Delineation Map are included in Appendix E.

The study area is encompassed within the Lake Zephyr Watershed (see Appendix E for basin delineation maps). In general, the project could be divided into two existing basins with the ridgeline being S.R. 54 (5<sup>th</sup> Avenue). The south basin begins at the apex of S.R. 39 and extends north to S.R. 54. The northern basin extends from S.R. 54 to Geiger Road. Both basins drain west to the Lake Zephyr Watershed. A small portion of U.S. 301 in the south basin from Charles Avenue to Avenue C (Station 424+00 to 432+00,RT) drains to a closed basin to the east and does not outfall to the Lake Zephyr Watershed.

According to the above noted Greiner report, areas within the Lake Zephyr Watershed experience flooding problems during frequent storm events. These flooding problems are attributed to:

- Limited channel capacity of Zephyr Creek
- Hydraulically inadequate structures along Zephyr Creek
- Development in flood prone areas
- Urbanized land uses in areas adjacent to Zephyr Creek, and
- Uncontrolled runoff from the upstream portions of the watershed (north of Geiger Road)

West of U.S. 301 are numerous closed basins which parallel Zephyr Creek. The depressional storage areas east of Zephyr Creek and west of 6<sup>th</sup> Street are usually self-contained for frequent events and then overflow to other basins or Zephyr Creek for less frequent events. The interconnections between the closed basins and/or Zephyr Creek are through natural overflows in the sub-basin divide. Zephyr Creek from U.S. 301 to Avenue C is a man-made

channel with several culverts located at the side streets. The Greiner report identifies the 60-inch culvert at Avenue C as a major constriction for the outfall of Lake Zephyr.

According to Pasco County (see telephone memo with Joellyn Miller dated 11-14-00 in Appendix B), the only drainage improvements to Zephyr Creek that are presently in design are at the following locations (other improvements are to follow):

- a) The box culvert where Zephyr Creek crosses under U.S. 301 south of the project (approximately 600 feet north of Chancey Road), and
- b) The Geiger Road Detention Pond located north of the project.

The City of Zephyrhills, FDOT Maintenance Department, and Pasco County were also contacted to identify any historic flooding problems in the vicinity of U.S. 301 in Zephyrhills (see correspondence in Appendix B). Contact with the agencies determined that there have been many flooding problems caused by the lack of adequate stormwater management facilities, drainage conveyance systems, and constrictions along Zephyr Creek.

# 4.4 EXISTING STORMWATER MANAGEMENT FACILITIES

Presently, four stormwater management facilities are located within the project limits. Three of the four ponds are owned and operated by the City of Zephyrhills. The existing ponds are shown on the Drainage Maps in Appendix G.

The only pond not owned by the City of Zephyrhills is **Existing Pond No. 1** located at Station 440+00, RT. The pond accepts runoff from the GTE site located immediately north and east of the pond. A small portion of runoff from U.S. 301(Gall Boulevard) also drains into the pond.

**Existing Pond No. 2** is located adjacent to 7<sup>th</sup> Street, east of U.S. 301 between Avenue A and South Avenue (Station 445+00,RT). The pond was constructed around 1995 in conjunction with the City of Zephyrhills one-way pair extension of 7<sup>th</sup> Street. The pond accepts runoff from the improved 7<sup>th</sup> Street, a small portion of U.S. 301, and adjacent property. The dry retention pond has a high infiltration rate (Double Ring Infiltrometer tests on the pond site averaged 17 feet per

day). A conversation memo with Rick Moore of the City of Zephyrhills on 10-4-99 is included in Appendix A.

Existing Pond No. 3 is located near the middle of the project (Station 466+00,RT); north of 6<sup>th</sup> Avenue, east of U.S. 301 (across from The Clock Family Restaurant). The pond accepts runoff from approximately 40 acres of surrounding area. The pond is owned and operated by the City of Zephyrhills whose offices are located due east from the pond. The pond is equipped with a pump station and force main which discharges west to Lake Zephyr. The City of Zephyrhills has expressed a desire to increase the pumping capacity of the pond to help alleviate some flooding problems associated with the pond. No SWFWMD permit exists for this pond as it was constructed prior to the 1960's. A telephone memorandum (dated 11-15-99) with Rick Moore of City of Zephyrhills is included in Appendix A.

Existing Pond No. 4 is located at the West Zephyrhills Elementary School located west of U.S. 301 at 14<sup>th</sup> Avenue and 1<sup>st</sup> Street. The pond receives runoff from east of U.S. 301 and pumps to an outfall ditch that leads to Lake Zephyr via a 16-inch force main running south along 1<sup>st</sup> Street (see telephone memo with Rick Moore dated 2-21-00 in Appendix A). This pond was originally a Pasco County pond but has since been modified and is now permitted through SWFWMD (Permit no. 4011662.00) with the City of Zephyrhills as owner and operator. The ponds on the school site have been designed to attenuate the 25yr/24hr storm event.

# 4.5 WETLANDS

There are no wetlands present within the project limits.

# 4.6 CULTURAL AND HISTORICAL RESOURCES

It is anticipated that SHPO will concur that there are no cultural or historical resources affected within the project limits.

# **SECTION 5**

# **DRAINAGE BASINS**

The project has been divided into six drainage basins (Basin 1 through 6) within the limits of project area. These basins are delineated on the Drainage Maps in Appendix H (Sheets 1,2, and 3). Lake Zephyr (Zephyr Creek) is the water body that receives runoff from this project. Lake Zephyr outfalls south through Zephyr Creek and into the Hillsborough River.

Eighteen stormwater management facilities were evaluated based on estimated SHWT's (determined from Soil Survey) and ground surface elevations obtained from SWFWMD 1 foot contour maps to determine the hydraulic capacity of each pond. The sites were evaluated using the SUPRA-3 program developed for the FDOT critical duration analysis. The program simulates runoff hydrographs resulting from storms of different frequencies (2-year through 100-year) with different durations (1 hour through 10 day). FDOT critical duration analysis for six frequencies (2-5-10-25-50- and 100-year) with five durations (1-2-4-8- and 24-hours) were analyzed. The 3, 7 and 10-day duration storms were not analyzed since there is no discharge to a closed basin. SUPRA-3 uses the rational method to compute pre-development peak discharges. Runoff hydrographs and peak discharges for the post development condition were determined from the modified rational method. The storage-area data for a detention pond was provided in each calculation and pre and post-development conditions were checked to make sure the post development discharge was not greater than the pre development discharge.

Tailwater elevations for each pond site were taken from the Lake Zephyr Watershed Study. The 5-year peak stage of the Zephyr Creek system was determined from the profiles along the Creek and used as a tailwater. A copy of the Zephyr Creek profiles is found in Appendix F. The tailwaters used for the recommended pond sites is shown on the profiles.

#### 5.1 DESIGN CRITERIA

The design criteria that were used to analyze the proposed pond sites are listed below:

- Provide a 1-foot clearance between the Hydraulic Grade Line (HGL) and the
  existing low edge of pavement (LEOP) elevation (estimated from SWFWMD.

  1 foot contours).
- Using the 5-year critical duration max pond stage as a starting elevation, the HGL at LEOP was calculated by assuming a hydraulic slope of 0.08%. Note that the approximate location of the low point of each basin is shown on the Drainage Maps in Appendix H.
- A minimum of 1-foot must be provided between the 100-year max stage
   (E-Max) and the top of bank (TOB) elevation. Top of bank elevations were estimated from the SWFWMD 1 foot contour maps.
- A maximum allowable treatment depth of 1.5 feet must be provided between the weir discharge elevation and the SHWT elevation.
- Pond sites are not to be located in contaminated areas identified in the Level I
  Hazardous Materials Investigation Report.
- SHWT elevations used for the pond analysis were estimated from the Pasco County Soil Survey. No geotechnical borings were performed. The vertical constraints that determine the allowable vertical volume are the estimated SHWT and the estimated low edge of pavement. Therefore, depending on the ground surface elevation at the pond site, ponds in the same basin may be different sizes.
- Assume a 20-foot maintenance berm and 10-feet to tie-in to existing ground.
   Therefore, a total of 60-feet was added to the length and width of the pond site at
   Top of Bank to estimate the required pond area.
- Treatment Volume was calculated using 1-inch over DCIA plus the pond water at
  Top of Bank. Calculations are located in Appendix B. Zephyr Creek is not
  recognized as an Outstanding Florida Water (OFW). The closest OFW is Crystal
  Springs (a tributary to the Hillsborough River) located south of the project limits.
- Offsite runoff was separated from on-site runoff for all calculations. The existing
   eross drains will continue to pass offsite runoff as in existing conditions.

## 5.2 POND DESCRIPTIONS

Refer to Appendix B for SUPRA-3 program output of the proposed pond sites selected. The proposed basins and pond sites from S.R. 39 to C.R. 54 are described in the following section. The locations of the existing and proposed stormwater management facilities within the limits of the project are shown on the drainage maps in Appendix H. It should be noted that the basin limits labeled on the drainage maps correspond to the basin limits of 6<sup>th</sup> Street and not U.S. 301.

## <u>Basin 1</u>

Basin 1 extends from Station 385+00 to Station 424+00. The U.S. 301 basin begins at the apex of S.R. 39 and U.S. 301 and extends north to Charles Avenue. For 6<sup>th</sup> Street, the basin begins at Palm Grove Avenue and extends north to Jendrall Avenue (approximate stationing for basin 1, 6<sup>th</sup> Street is from 606+00 to 618+00). In the existing condition, the runoff from U.S. 301 right-of-way and off site areas adjacent to U.S. 301, is directed to the existing storm drain system running parallel to U.S. 301. The system conveys stormwater via an 18 inch pipe north along U.S. 301 to the 24 inch cross drain located at Station 411+00. The cross drain serves as an equalizer pipe and is analyzed in more detail in the Location Hydraulics Report. The runoff from Basin 1 ultimately discharges to Zephyr Creek located approximately 1300 feet west of U.S. 301. In Basin 1, 6<sup>th</sup> Street is a new roadway on a new alignment which affects mobile home parks and businesses.

Impacts to the floodplain occur longitudinally along the west side of U.S. 301. Traverse impacts to the floodplain occur along 6<sup>th</sup> Street as well.

The proposed pond areas for Basin 1 have been included in the total pre developed and post developed basin areas used in the pond sizing calculations. Below is a description of the pond alternates for Basin 1.

#### **Pond 2-2**

Pond 2-2 is located south of the apex of U.S. 301 and S.R. 39 near Station 388+00, RT. The pond is 1.86 acres in size and is bordered on the south by the proposed new alignment of S.R. 39 (FPN 2562891). The site is bordered on the north by the Alan Chenkin Power Equipment site.

The existing land use of the pond site consists of vacant woodlands. Soils within the pond site are Tavares Sand of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is not located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-2 has a basin size of 8.89 acres with 0.62 ac-ft of required treatment volume. The estimated ground surface elevation is 76.0 feet which is the estimated top of berm elevation. The critical storm is the 100yr-2hr event with a peak stage of 75.13. The pond will outfall 1900 feet south along the east side of U.S. 301 to the existing cross drain located approximately 600 feet north of Chancey Road. The cross drain is to be upsized to a triple 6'x4' according to Pasco County. The system ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **medium** risk rating for Pond 2-2. The Level I report recommends approximately \$4,000 of additional testing. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

#### **Pond 2-3**

Pond 2-3 is located 500 feet west of U.S. 301 at the northeast quadrant of Tucker Road and Edwin Street (Station 395+00, LT). The pond is 2.45 acres in size.

The existing land use at the pond site consists of vacant woodlands and open grass. Soils within the pond site are Millhopper Fine Sand of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-3 has a basin size of 9.48 acres with 0.66 ac-ft of required treatment volume. The estimated ground surface elevation is 79.0 feet which is the estimated top of berm elevation. The critical storm is the 100yr-2hr event with a peak stage of 77.52. The pond will outfall west for 700 feet along Tucker Road (Michigan Avenue) to Zephyr Creek which has a tailwater elevation of 75.0 feet. The system ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **medium** risk rating for Pond 2-3. The Level I report recommends approximately \$4,000 of additional testing. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

# Pond 2-4 and Pond 2-1

#### Pond 2-4:

Pond 2-4 is located 400 feet east of U.S. 301, north of Palm Grove Avenue (Station 406+00, RT). The pond is 1.56 acres in size. The pond is designed to work in conjunction with Pond 2-1.

The existing land use of the pond site consists of open grass. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is not located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-4 has a basin size of 7.22 acres with 0.50 ac-ft of required treatment volume. The estimated ground surface elevation is 78.0 feet which is the estimated top of berm elevation. The critical storm is the 100yr-8hr event with a peak stage of 76.96. The pond will outfall west for 1900 feet along Palm Grove Avenue to Zephyr Creek which has a tailwater elevation of 76.0 feet. The system ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **low** risk rating for Pond 2-4. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

#### Pond 2-1:

Pond 2-1 is located 400 feet east of U.S. 301, north of Palm Grove Avenue (Station 385+00, RT). The pond is 1.1 acres in size. The pond is designed to work in conjunction with Pond 2-4.

The existing land use of the pond site consists of open grass. Soils within the pond site are Tavares Sand of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is not located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-1 has a basin size of 2.48 acres with 0.16 ac-ft of required treatment volume. The estimated ground surface elevation is 76.0 feet which is the estimated top of berm elevation. The critical storm is the 100yr-8hr event with a peak stage of 73.91. The pond will outfall west for 1700 feet south along the east side of U.S. 301 to the existing cross drain located approximately 600 feet north of Chancey Road. The cross drain is to be upsized to a triple 6'x4' according to Pasco County. The system ultimately outfalls to the Hillsborough River.

Table 5-1 below summarizes the results of the SUPRA-3 analysis for Ponds 2-2,2-3, and 2-4/2-1.

TABLE 5-1
BASIN 1 POND SITES DESIGN SUMMARY

Pond Site	Pond Size (ac)	Pre CN	Post CN	Treatment Volume (ac-ft)	SHWT Elev. (ft)	Weir Elev. (ft)	Q Pre (cfs)	Q Post (cfs)	E Max Elev. (ft)	TOB Elev. (ft)	HGL LP (ft)	EOP Elev. (ft)	R/W Cost Estimate (\$)
2-2	1.86	62.1	88.6	0.62	72.5	73.2	19.71	19.42	75.13	76.0	74.35	77.0	728,300
2-3	2.45	60.7	88.4	0.66	75.5	76.01	19.83	19.54	77.52	79.0	77.87	80.0	729,800
2-4*	1.56	61.9	87.9	0.50	74.5	75.25	-22.51	14.85	76.96	78.0	77.50	80.0	479,600
2-1	1.10	55.4	83.8	0.16	72.5	72.94	6.33	4.73	73.91	76.0	73.48	76.0	666,600

Note: E. Max - Maximum stage elevation in pond

TOB - Top of bank

EOP - Edge of pavement

HGL - Hydraulic Grade Line

LP – Low Point

\* Pond 2-4 to work with Pond 2-1, therefore total r/w cost is \$1,146,200.

#### Basin 2

Basin 2 extends from Station 424+00 to Station 432+00. In the existing condition, the crown of existing U.S. 301 forms a ridge between the open basin on the west (Zephyr Creek) and the closed basin on the east side. The closed basin on the east side is an existing low depressional area located near the Zephyr Egg Company.

A pond on the west side of U.S. 301 is proposed for this basin. The pond will be sized to account for the additional area that did not previously go to Zephyr Creek. Therefore, the post-developed area is larger than the pre developed area. The pond will outfall to Zephyr Creek. The proposed pond areas for Basin 2 have been included in the total pre developed and post developed basin areas used in the pond sizing calculations. Below is a description of the pond alternates for basin 2.

Impacts to the floodplain occur longitudinally along the west side of U.S. 301. Traverse impacts to the floodplain occur along 6<sup>th</sup> Street as well.

#### **Pond 2-6**

Pond 2-6 is located west of 6<sup>th</sup> Street, north of Alston Avenue and south of Stebbins Avenue (Station 623+00, LT). The Oakdale Village Trailer Park is located due east of the proposed pond site. The pond is 1.20 acres in size.

The existing land use of the pond site consists of residential. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-6 has a basin size of 5.06 acres (post development) with 0.34 ac-ft of required treatment volume. The estimated ground surface elevation is 80.0 feet which is the estimated top of berm elevation. The critical storm is the 100yr-2hr event with a peak stage of 79.63. The pond will outfall west for 900 feet along Stebbins Avenue to Zephyr Creek

which has a tailwater elevation of 78.6 feet. The system ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **low** risk rating for Pond 2-6. Therefore, no additional testing is required for this site. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

#### **Pond 2-7**

Pond 2-7 is located east of 6<sup>th</sup> Street, north of Alston Avenue and south of Stebbins Avenue (Station 623+00, RT). The pond is located within the western half of the Oakdale Village Trailer Park. The pond is 1.20 acres in size.

The existing land use of the pond site consists of mobile homes. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-7 has a basin size of 5.06 acres (post development) with 0.34 ac-ft of required treatment volume. The estimated ground surface elevation is 80.0 feet which is the estimated top of berm elevation. The critical storm is the 100yr-2hr event with a peak stage of 79.02. The pond will outfall west for 900 feet along Stebbins Avenue to Zephyr Creek which has a tailwater elevation of 78.6 feet. The system ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **low** risk rating for Pond 2-7. Therefore, no additional testing is required for this site. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

#### Pond 2-8a

Pond 2-8a is located west of 6<sup>th</sup> Street, north of Stebbins Avenue and south of Justin Avenue (Station 627+00, LT). The pond is 2.40 acres in size. The pond is larger than the other alternates in this basin because the estimated seasonal high water elevation is higher thereby reducing the available vertical storage volume.

The existing land use at the pond site consists of residential. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is not located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-8a has a basin size of 6.22 acres (post development) with 0.42 ac-ft of required treatment volume. The estimated average ground surface elevation is 81.2 feet. The estimated top of berm elevation is 81.2 feet. The critical storm is the 100yr-2hr event with a peak stage of 78.82. The pond will outfall west for 700 feet west along Stebbins Avenue to Zephyr Creek which has a tailwater elevation of 78.6 feet. The system ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **low** risk rating for Pond 2-8a. Therefore, no additional testing is required for this site. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

Table 5-2 summarizes the results of the SUPRA-3 analysis for Basin 2.

TABLE 5-2
BASIN 2 POND SITES DESIGN SUMMARY

Pond Site	Pond Size	Pre CN	Post CN	Treatment Volume	SHWT Elev.	Weir Elev.	Q Pre	Q Post	E Max Elev.	TOB Elev.	HGL LP	EOP Elev.	R/W Cost Estimate
	(ac)			(ac-ft)	(ft)	(ft)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(\$)
2-6	1.20	67.2	86.1	0.34	76.0	77.03	11.43	10.58	78.85	80.00	78.10	79.5	745,700
2-7	1.20	71.7	86.1	0.34	76.5	77.45	13.31	13.04	79.02	80.00	78.31	79.5	2,152,200
2-8a	2.40	65.9	86.6	0.42	77.7	78.06	13.88	13.67	78.82	81.00	78.62	79.5	2,356,800

Note: E. Max - Maximum stage elevation in pond

TOB - Top of bank

EOP - Edge of pavement

HGL - Hydraulic Grade Line

LP – Low Point

#### Basin 3

Basin 3 extends from Station 432+00 to Station 460+00. The approximate street limits extend from Avenue C to S.R. 54 (5<sup>th</sup> Avenue). In the existing condition, a portion of the basin (from Avenue C to Avenue A) is directed to the east side of U.S. 301 into a closed basin. An existing wet pond serving the GTE site at station 440+00 RT also accepts some of the runoff from U.S. 301. North of Avenue A to S.R. 54 the runoff from U.S. 301 is directed along South Avenue and then west to Lake Zephyr.

The 6<sup>th</sup> Street basin limits extend from Avenue B (station 638+00) to S.R. 54 (station 659+00). From Avenue B to 200 feet north of Avenue A the runoff flows towards Shepard Park. The park is a low area that collects runoff from the west side of U.S. 301 as well. The depressional area then pops over around elevation 82.6 (from 1' contours) and flows northwesterly towards Lake Zephyr. From north of Avenue A to S.R. 54, 6<sup>th</sup> Street drains to South Avenue and then flows west to Lake Zephyr.

A pond is proposed on the west side of U.S. 301. The pond will be sized to account for the additional area that did not previously go to Zephyr Creek. Therefore, the post-developed area is larger than the pre developed area. The pond will outfall to Zephyr Creek. The proposed pond area for Basin 3 has been included in the total pre developed and post developed basin areas used in the pond sizing calculations.

Impacts to the floodplain occur longitudinally along the west side of U.S. 301 near Shepard Park. Traverse impacts to the floodplain occur along 6<sup>th</sup> Street from Avenue A to 200 feet north of 2<sup>nd</sup> Avenue.

## **Pond 2-11 and Pond 2-12**

Ponds 2-11 and 2-12 were combined because the ponds were found to be too small separately.

#### Pond 2-11

Pond 2-11(Station 645+00, RT) is located east of 6<sup>th</sup> Street, north of Avenue A and south of South Avenue. The pond is located west of the Hungry Howies on U.S. 301 (Gall Boulevard). The pond is 1.20 acres in size.

The existing land use at the pond site consists of residential and business. The Sun Motel is located on the site and it would be acquired. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is not located within the 100-year floodplain of Lake Zephyr.

The Level I Hazmat analysis assigned a **medium** risk rating for Pond 2-11. The Level I report recommends approximately \$4,000 of additional testing. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

#### **Pond 2-12**

Pond 2-12 (Station 445+00, LT) is located west of U.S. 301 (Gall Boulevard), north of Avenue A and south of South Avenue. The pond is located on the vacant lot immediately north of the Hungry Howies. The pond is 0.75 acres in size.

The existing land use at the pond site consists of grass and trees. The lot is vacant. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is not located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-11/2-12 has a basin size of 8.68 acres (post development) with 0.60 acft of required treatment volume. The estimated ground surface elevation is 83.0 feet which is the estimated top of berm elevation. The critical storm event from the Supra-3 analysis is the 2yr/100hr event with a peak stage of 82.08 feet. Results from the analysis are summarized in Table 5-3. The pond will outfall west for 900 feet along South Avenue to Lake Zephyr

which has a tailwater elevation of 80.7 feet. Lake Zephyr outfalls south through Zephyr Creek which ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **medium** risk rating for Pond 2-12. The Level I report recommends approximately \$4,000 of additional testing. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

### **Pond 2-11 and Pond 2-14**

A second alternative could be to combine Pond 2-11 with Pond 2-14. Pond 2-14 is located east of 6<sup>th</sup> Street between 2<sup>nd</sup> and 3<sup>rd</sup> Avenue. The pond is 1.0 acres in size and resides in a residential area.

The existing land use at the pond site consists of residential. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is not located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-14 has a basin size of 4.02 acres (post development) with 0.28 ac-ft of required treatment volume. The estimated ground surface elevation is 85.0 feet. The critical storm is the 100yr-2hr event with a peak stage of 83.39. The pond will outfall west for 1000 feet along South Avenue to Lake Zephyr which has a tailwater elevation of 80.7 feet. Lake Zephyr outfalls south through Zephyr Creek which ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **medium** risk rating for Pond 2-14. The Level I report recommends approximately \$4,000 of additional testing. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

#### **Pond 2-15A**

Pond 2-15A (Station 645+00, 400'LT) is located west of 5<sup>th</sup> Street, north of Avenue A and south of South Avenue. The pond is situated midway between 6<sup>th</sup> Street and Lake Zephyr. The pond is 1.20 acres in size.

The existing land use of the pond site consists of woodlands. The site is vacant. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-15A has a basin size of 7.95 acres (post development) with 0.55 ac-ft of required treatment volume. The estimated ground surface elevation is 81.0 feet. The critical storm is the 100yr-2hr event with a peak stage of 82.25. The pond will need to be bermed up approximately 2 feet to elevation 83.0 on the south end in order to contain the critical storm event. The pond will outfall west for 400 feet along South Avenue to Lake Zephyr which has a tailwater elevation of 80.7 feet. Lake Zephyr outfalls south through Zephyr Creek which ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **low** risk rating for Pond 2-15A. Therefore, no additional testing is required for this site. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

Table 5-3 summarizes the results of the SUPRA-3 analysis for Ponds 2-11/2-12, 2-11/2-14, and 2-15A of Basin 3.

TABLE 5-3
BASIN 3 POND SITES DESIGN SUMMARY

Pond Site	Pond Size (ac)	Pre CN	Post CN	Treatment Volume (ac-ft)	SHWT Elev. (ft)	Weir Elev. (ft)	Q Pre (cfs)	Q Post (cfs)	E Max Elev. (ft)	TOB Elev. (ft)	HGL LP (ft)	EOP Elev. (ft)	R/W Cost Estimate (\$)
2-11*	1.20	67.5	85.7	0.32	80.5	81.26	13.27	11.58	82.73	84.00	82.08	83.2	1,163,900
2-14	1.00	66.5	89.0	0.28	81.5	82.12	10.57	9.63	83.39	85.00	83.00	84.0	1,103,400
2-15A	1.20	62.6	88.1	0.55	77.5	79.00	18.66	17.85	82.25	83.00	81.38	83.2	932,600
2-11&12	1.95	60.4	88.2	0.60	79.5	80.20	18.81	18.68	82.08	83.00	81.33	83.20	1,577,900

Note: E. Max - Maximum stage elevation in pond

TOB - Top of bank

EOP - Edge of pavement

HGL – Hydraulic Grade Line

LP – Low Point

\* Pond 2-11 to work with Ponds 2-12 and 2-14 as two separate alternates.

### Basin 4

Basin 4 extends from Station 460+00 to Station 471+00. The street limits are from S.R. 54 to 8<sup>th</sup> Avenue. In the existing condition, the runoff from 40th Street right-of-way and off site areas adjacent to 40th Street, are directed to the existing storm drain systems running along 40th Street. These systems convey stormwater east to an existing stormwater management facility owned and operated by the City of Zephyrhills. (The facility is called Existing Pond No. 3 on the drainage maps in Appendix G). The outflow from the pond is pumped west to Lake Zephyr. A telephone memorandum with the City of Zephyrhills dated 11-15-99 is included in the Correspondence section, Appendix A. Since the existing pond has flooding problems associated with it already it is assumed that the pond is at full capacity. However, it may be possible to take a portion of Basin 4 (U.S. 301) into the existing pond and increase the pump capacity. Further coordination with the SWFWMD would be required.

Basin 4 is not in the 100-year flood zone of Lake Zephyr.

The proposed pond area for Basin 4 has been included in the total pre developed and post developed basin areas used in the pond sizing calculations.

### Pond 2-17

Pond 2-17 (Station 668+00, 200'LT) is located east of 5<sup>th</sup> Street, north of 7<sup>th</sup> Avenue and south of 8th Avenue. The pond is 0.96 acres in size.

The existing land use at the pond site consists of residential. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is not located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-17 has a basin size of 4.55 acres (post development) with 0.31 ac-ft of required treatment volume. The estimated ground surface elevation is 87.0 feet which is also the estimated top to berm (TOB) elevation. The critical storm is the 100yr-2hr event with a peak stage of 86.76. The pond will outfall west for 1200 feet along 7<sup>th</sup> Avenue where it will

then drain south along 1<sup>St</sup> Street for 800 feet to Lake Zephyr. The tailwater elevation of Lake Zephyr at S.R. 54 is 80.7 feet (see profiles in Appendix F). Lake Zephyr outfalls south through Zephyr Creek which ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **low** risk rating for Pond 2-17. Therefore, no additional testing is required for this site. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

### **Pond 2-18**

Note: Pond 2-18 has the same hydraulic characteristics as Pond 2-17 only the outfall length is 200 feet longer.

Pond 2-18 (Station 668+00, LT) is located west of 6<sup>th</sup> Street, north of 7<sup>th</sup> Avenue and south of 8th Avenue. The pond is 0.96 acres in size.

The existing land use of the pond site consists of residential. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is not located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-18 has a basin size of 4.55 acres (post development) with 0.31 ac-ft of required treatment volume. The estimated ground surface elevation is 87.0 feet which is also the estimated top to berm (TOB) elevation. The critical storm is the 100yr-2hr event with a peak stage of 86.76. The pond will outfall west for 1400 feet along 7<sup>th</sup> Avenue where it will then drain south along 1<sup>St</sup> Street for 800 feet to Lake Zephyr. The tailwater elevation of Lake Zephyr at S.R. 54 is 80.7 feet (see profiles in Appendix F). Lake Zephyr outfalls south through Zephyr Creek which ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **low** risk rating for Pond 2-18. Therefore, no additional testing is required for this site. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

### **Existing Pond No. 3**

Existing Pond No. 3 is located within this basin and presently accepts a portion of the runoff from U.S. 301. The pond is equipped with a pump station that pumps to Lake Zephyr via a force main. It is owned and operated by the City of Zephyrhills (see memo in Appendix A dated 11-15-99).

Conversations with the City of Zephyrhills have indicated that it may be possible to use the existing pond site by increasing the pumping capacity to Lake Zephyr. This would involve seeking a permit modification to the existing SWFWMD permit. It may be possible to increase the size of the pond by buying adjacent property. Property north of the pond is an existing Auto Zone dealer. The cost estimate for the purchase of the Pond 2-16 site would be \$1,286,600.

Table 5-4 summarizes the results of the SUPRA-3 analysis for Pond 2-17, Pond 2-18, and for Existing Pond No. 3 for Basin 4.

TABLE 5-4
BASIN 4 POND SITES DESIGN SUMMARY

Pond Site	Pond Size (ac)	Pre CN	Post CN	Treatment Volume (ac-ft)	SHWT Elev. (ft)	Weir Elev. (ft)	Q Pre (cfs)	Q Post (cfs)	E Max Elev. (ft)	TOB Elev. (ft)	HGL LP (ft)	EOP Elev. (ft)	R/W Cost Estimate (\$)
2-17	0.96	64.3	86.4	0.31	83.5	84.61	13.12	13.04	86.76	87.0	85.94	88.0	1,104,100
2-18	0.96	64.3	86.4	0.31	83.5	84.61	13.12	13.04	86.76	87.0	85.80	88.0	1,063,100
Exist. Pond 3	1.65	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D

Note: E. Max - Maximum stage elevation in pond

HGL - Hydraulic Grade Line

LP – Low Point

EOP - Edge of pavement

N/D – Not Determined

TOB - Top of bank

### Basin 5

Basin 5 extends from Station 471+00 to Station 486+00. The basin extends basically from 8<sup>th</sup> Avenue to 12<sup>th</sup> Avenue. Runoff from U.S. 301 drains to a low area east of and adjacent to U.S. 301 in front of the car wash near station 480+00. The low area is connected to an existing 18-inch storm sewer under U.S. 301 that outfalls west to the Lake Zephyr system. The basin limits for 6<sup>th</sup> Street are from 9<sup>th</sup> Avenue (Station 674+00) to just north of 12<sup>th</sup> Avenue (Station 687+00).

Minor impacts to the floodplain occur longitudinally along the west side of U.S. 301 near Station 480+00. Approximately 200 feet of traverse impacts to the floodplain occur along 6<sup>th</sup> Street between 10<sup>th</sup> Avenue and 11<sup>th</sup> Avenue.

The proposed condition will include construction of a storm drain system that will direct runoff to a stormwater management facility located west of U.S. 301. The proposed pond will outfall to Lake Zephyr. The pond will provide for treatment of the right-of-way area of U.S. 301 and 6<sup>th</sup> Street.

The proposed pond area for Basin 5 has been included in the total pre developed and post developed basin areas used in the pond sizing calculations.

### Pond 2-19

Pond 2-19 (Station 680+00, 200'LT) is located east of 5<sup>th</sup> Street, north of 10<sup>th</sup> Avenue and south of 11th Avenue. The pond is 0.96 acres in size.

The existing land use at the pond site consists of residential. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-19 has a basin size of 4.82 acres with 0.33 ac-ft of required treatment volume. The estimated ground surface elevation is 84.0 feet. The critical storm is the 100yr-2hr event with a peak stage of 83.94. The top of berm (TOB) elevation would need to be set at elevation 85.0 feet to contain the critical storm event. The pond will outfall west for 800 feet along 10<sup>th</sup> Avenue where it will then drain south along 1<sup>St</sup> Street for 1200 feet to Lake Zephyr. The tailwater elevation of Lake Zephyr at S.R. 54 is 80.7 feet (see profiles in Appendix F). Lake Zephyr outfalls south through Zephyr Creek which ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **low** risk rating for Pond 2-19. Therefore, no additional testing is required for this site. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

### **Pond 2-20A**

Pond 2-20A (Station 679+00,LT) is located west of 6<sup>th</sup> Street, north of 10<sup>th</sup> Avenue and south of 11th Avenue. The pond is 0.96 acres in size.

The existing land use at the pond site consists of residential. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-20A has a basin size of 4.82 acres with 0.33 ac-ft of required treatment volume. The estimated ground surface elevation is 85.0 feet. The critical storm is the 100yr-2hr event with a peak stage of 84.94. The top of berm (TOB) elevation would need to be set at elevation 86.0 feet on the south side of the pond to contain the critical storm event. The pond will outfall west for 1000 feet along 10<sup>th</sup> Avenue where it will then drain south along 1<sup>St</sup> Street for 2000 feet to Lake Zephyr. The tailwater elevation of Lake Zephyr at S.R. 54 is 80.7 feet (see profiles in Appendix F). Lake Zephyr outfalls south through Zephyr Creek which ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **low** risk rating for Pond 2-20A. Therefore, no additional testing is required for this site. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

### **Pond 2-20B**

Pond 2-20B (Station 679+00,RT) is located east of 6<sup>th</sup> Street, north of 10<sup>th</sup> Avenue and south of 11th Avenue. The pond is 0.96 acres in size.

The existing land use of the pond site consists of residential. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-20B has a basin size of 4.82 acres with 0.33 ac-ft of required treatment volume. The estimated ground surface elevation is 84.0 feet. The critical storm is the 100yr-2hr event with a peak stage of 83.94. The top of berm (TOB) elevation would need to be set at elevation 85.0 feet to contain the critical storm event. The pond will outfall west for 1200 feet along 10<sup>th</sup> Avenue where it will then drain south along 1<sup>St</sup> Street for 2000 feet to Lake Zephyr. The tailwater elevation of Lake Zephyr at S.R. 54 is 80.7 feet (see profiles in Appendix F). Lake Zephyr outfalls south through Zephyr Creek which ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **medium** risk rating for Pond 2-20B. The Level I report recommends approximately \$4,000 of additional testing. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

Table 5-5 summarizes the results of the SUPRA-3 analysis for Ponds 2-19, 2-20A, and 2-20B for Basin 5.

TABLE 5-5
BASIN 5 POND SITES DESIGN SUMMARY

Pond	Pond	Pre	Post	Treatment	SHWT	Weir	Q	Q	E Max	ТОВ	HGL	EOP	R/W Cost
Site	Size	CN	CN	Volume	Elev.	Elev.	Pre	Post	Elev.	Elev.	LP	Elev.	Estimate
	(ac)			(ac-ft)	(ft)	(ft)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(\$)
2-19	0.96	64.8	86.8	0.33	80.5	81.68	14.17	13.97	83.94	85.0	82.97	84.30	1,330,300
2-20A	0.96	64.8	86.8	0.33	80.5	81.68	14.17	13.97	84.94	86.0	84.00*	84.30	1,058,100
2-20B	0.96	64.8	86.8	0.33	80.5	81.68	14.17	13.97	83.94	85.0	83.00	84.30	1,200,500

Note: E. Max - Maximum stage elevation in pond

TOB - Top of bank

EOP - Edge of pavement

HGL - Hydraulic Grade Line

LP – Low Point

\* Does not meet minimum criteria.

### Basin 6

Basin 6 extends from Station 486+00 to Station 503+00. The basin extends from 12<sup>th</sup> Avenue to 1<sup>st</sup> Street. The basin limits for 6<sup>th</sup> Street are from 200 feet north of 12<sup>th</sup> Avenue (Station 687+00) to 1<sup>st</sup> Street (Station 700+00). Runoff from these portions of roadway as well as from offsite area to the east of U.S. 301 flow westerly to 1<sup>st</sup> Street. The runoff is collected into an existing pond that pumps to Lake Zephyr. The existing pond is identified on the drainage maps in Appendix G as Existing Pond No. 4.

Minor impacts to the floodplain occur longitudinally along the west side of U.S. 301 near Stations 493+00 and 497+00. Approximately 200 feet of traverse impacts to the floodplain occur along 6<sup>th</sup> Street at 14<sup>th</sup> Avenue and 15<sup>th</sup> Avenue.

The proposed pond area for Basin 6 has been included in the total pre developed and post developed basin areas used in the pond sizing calculations.

### Pond 2-21

Pond 2-21 (Station 690+00, 200' LT) is located on the southeast quadrant of 5<sup>th</sup> Street and 14th Avenue. The pond is 0.90 acres in size.

The existing land use at the pond site consists of residential. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. A portion of the pond is located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-21 has a basin size of 5.09 acres with 0.35 ac-ft of required treatment volume. The estimated ground surface elevation is 85.0 feet which is also the estimated top of berm (TOB) elevation. The critical storm is the 100yr-2hr event with a peak stage of 83.11. The pond will outfall west for 200 feet along 13<sup>th</sup> Avenue where it will then drain south along 1<sup>St</sup> Street for 3000 feet to Lake Zephyr. The tailwater elevation of Lake Zephyr at

S.R. 54 is 80.7 feet (see profiles in Appendix F). Lake Zephyr outfalls south through Zephyr Creek which ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **low** risk rating for Pond 2-21. Therefore, no additional testing is required for this site. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

### Pond 2-22

Pond 2-22 (Station 690+00,LT) is located west of 6<sup>th</sup> Street north of 13<sup>th</sup> Avenue and south of 14th Avenue. The pond is 0.90 acres in size.

The existing land use at the pond site consists of residential. Soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. A portion of the pond is located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-22 has a basin size of 5.09 acres with 0.35 ac-ft of required treatment volume. The estimated ground surface elevation is 85.0 feet which is also the estimated top of berm (TOB) elevation. The critical storm is the 100yr-2hr event with a peak stage of 83.11. The pond will outfall west for 400 feet along 13<sup>th</sup> Avenue where it will then drain south along 1<sup>St</sup> Street for 3000 feet to Lake Zephyr. The tailwater elevation of Lake Zephyr at S.R. 54 is 80.7 feet (see profiles in Appendix F). Lake Zephyr outfalls south through Zephyr Creek which ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **low** risk rating for Pond 2-22. Therefore, no additional testing is required for this site. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

### **Pond 2-23**

Pond 2-23 (Station 697+00,LT) is located west of 6<sup>th</sup> Street north of 15<sup>th</sup> Avenue and south of 16th Avenue. The pond is bordered on the west by 1<sup>st</sup> Street. The pond is 0.61 acres in size.

The existing land use at the pond site consists mostly of open space. A barbershop and a satellite TV business occupy the northern portion of the site. The pond site is a natural low area soils within the pond site are Tavares Urban Land Complex of hydrologic soil type A with an anticipated depth to water table of 3.5 feet. The pond is located within the 100-year floodplain of Lake Zephyr.

The proposed Pond 2-23 has a basin size of 4.74 acres with 0.34 ac-ft of required treatment volume. The estimated ground surface elevation is 81.5 feet. The pond outfalls west for 100 feet along 15<sup>th</sup> Avenue where it will then drain south along 1<sup>St</sup> Street for 3500 feet to Lake Zephyr. The tailwater elevation of Lake Zephyr at S.R. 54 is 80.7 feet (see profiles in Appendix F). Lake Zephyr outfalls south through Zephyr Creek which ultimately outfalls to the Hillsborough River.

The Level I Hazmat analysis assigned a **medium** risk rating for Pond 2-23. The Level I report recommends approximately \$4,000 of additional testing. No historic structures were found and no prehistoric archeological sites were discovered. No listed protected species were observed.

### Basins 4, 5, and 6 Combined

### **Pond 2-24**

It may be possible to combine basins 4,5,and 6 so that only one pond site would need to be purchased rather than three. The scenario was analyzed using the same methodology as with the previous pond sites. The basin hydrology for basin 4, 5,and 6 was combined for a total basin area of 16.6 acres. A possible pond site is located 500 feet west of 1<sup>st</sup> Street at 10<sup>th</sup> Avenue. The site is a 5.0 acre wooded area due west of Oakside Cemetery. The soil type is Hydrologic-Soil Group C (Sparr). The estimated depth to seasonal high water table is 1.5

feet according to the SCS Soil Survey of Pasco County. The average ground surface elevation at the pond site is elevation 83.5 from the 1' contours. The critical storm is the 100yr/2hr event with a peak stage of 83.15 feet. The pond would outfall to the Lake Zephyr Watershed.

Table 5-6 summarizes the results of the SUPRA-3 analysis for Ponds 2-21, 2-22, and 2-23 for Basin 6. Pond 2-24 (combined Basins 4,5,and 6) is shown at the bottom of Table 5-6.

TABLE 5-6
BASIN 6 POND SITES DESIGN SUMMARY

Pond Site	Pond Size (ac)	Pre CN	Post CN	Treatment Volume (ac-ft)	SHWT Elev. (ft)	Weir Elev. (ft)	Q Pre (cfs)	Q Post (cfs)	E Max Elev. (ft)	TOB Elev. (ft)	HGL LP (ft)	EOP Elev. (ft)	R/W Cost Estimate (\$)
2-21	0.96	60.9	87.2	0.35	79.0	80.35	12.79	12.05	83.11	85.00	82.40	83.50	1,605,300
2-22	0.96	60.9	87.2	0.35	79.0	80.35	12.79	12.05	83.11	85.00	82.24	83.50	1,517,600
2-23	0.61	64.8	89.5	0.34	78.0	80.56	13.93	13.37	83.51	84.00	82.44	83.40	384,600
2-24	5.00	67.0	91.7	1.18	82.0	80.35	44.42	41.00	83.15	83.50	83.42	84.50	622,400

Note: E. Max - Maximum stage elevation in pond

TOB - Top of bank

EOP - Edge of pavement

HGL - Hydraulic Grade Line

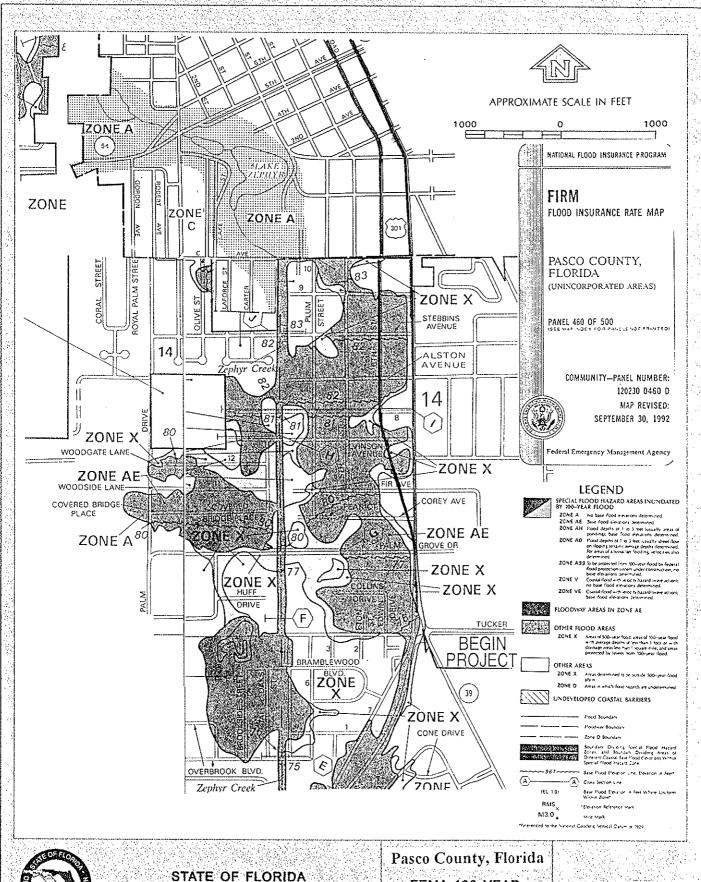
LP – Low Point

## **SECTION 6**

## BASE FLOODPLAIN INVOLVEMENT

There are no regulated floodways within the project limits. The 100-year (base) floodplain has been established for the Lake Zephyr Watershed and is shown in Figure 6. The Lake Zephyr floodplain is located adjacent to Zephyr Creek and extends eastward to U.S. 301. Flood profiles along Zephyr Creek have been developed and can be seen in the Pasco County Flood Insurance Study (revised 1992).

Measures have been taken during conceptual design of the proposed roadway improvements for U.S. 301 and 6<sup>th</sup> Street to avoid or minimize roadway encroachments within the base floodplain. It is anticipated however that encroachments will occur and that compensating storage poinds will likely be required to offset the impact. Estimated floodplain encroachments and compensation pond sizes are included in Appendix C.

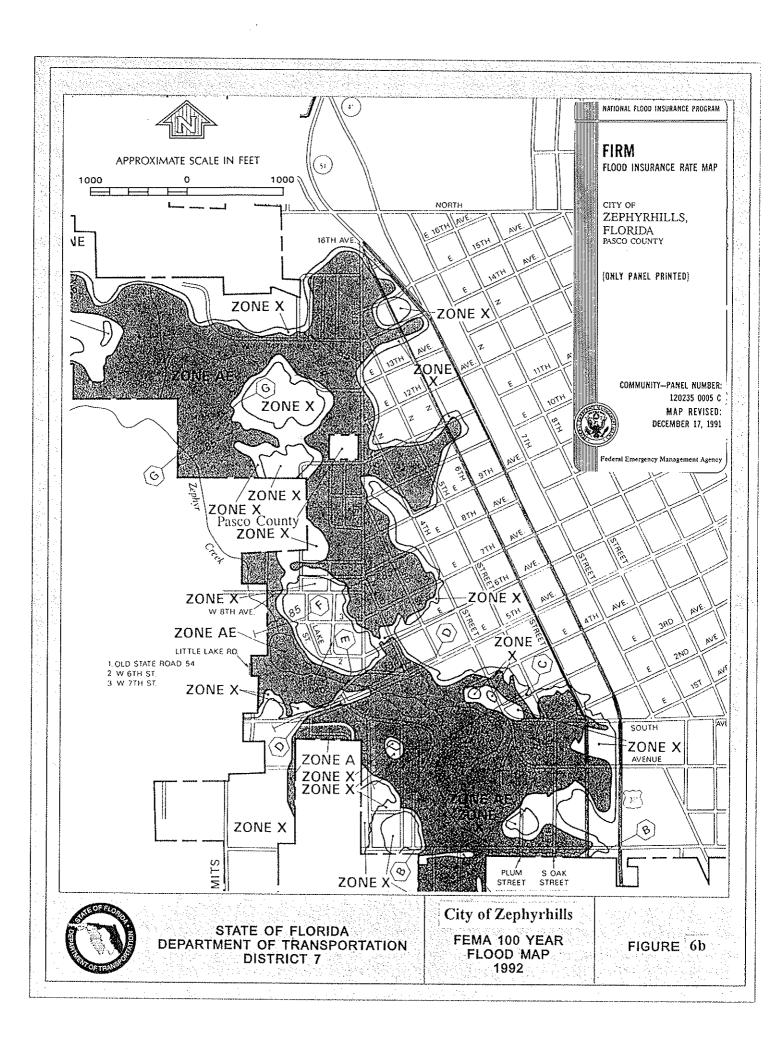




STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT 7

FEMA 100 YEAR FLOOD MAP 1992

FIGURE 6a



### **SECTION 7**

## CONCLUSIONS AND RECOMMENDATIONS

Six basins were evaluated for pond siting alternatives. A total of 18 stormwater management facilities were considered for their potential to serve the basins. Historical and archeological sites, wetlands, and protected species are not found within the project limits. Therefore, the recommended ponds were based largely on hydraulic adequacy, right-of-way cost, and hazardous materials involvement. The following conclusions and recommendations were made for each basin. Table 7-1 lists the recommended alternatives. Table 7-2 is an evaluation matrix for all pond alternates.

### Basin 1

Because Pond 2-1/2-4 right-of-way is so costly, the recommended alternate is between Pond 2-2 and 2-3. The cost of the outfall pipe for Pond 2-3 is approximately \$40,000 less than that of Pond 2-2. From a permitting standpoint, Pond 2-2 may cause difficulty since not all of the basin drains to its location in the pre-development condition. Hydraulically, Pond 2-3 is better situated to outfall to the Zephyr Creek system than Pond 2-2. **Pond 2-3 is the recommended site for Basin 1.** 

### Basin 2

The recommended site for Basin 2 is Pond 2-6. The cost savings of Pond 2-6 is over \$1 million compared to the other two alternates. Therefore, Pond 2-6 is the recommended site for Basin 2.

### Basin 3

The recommended site for Basin 3 is Pond 2-15A. The cost of Pond 2-15A is considerably less costly (approximately \$1.5 million) than the other alternates in the basin. Pond 2-15A is the recommended site for Basin 3.

### Basin 4,5, and 6

The recommended site for Basin 4,5 and 6 is Pond 2-24. Since all of the runoff from basins 4, 5, and 6 goes to the same point of entry into the Lake Zephyr system, it would be possible to combine the basins into one pond. The recommended pond alternates for basins 4, 5 and 6 are listed in Table 7-1 below. These sites represent what would be the recommended pond for each separate basin if Pond 2-24 had not been an option. As shown in the table, the cost of Pond 2-24 is approximately \$2 million less than that of the cost of purchasing three separate pond sites. Therefore, **Pond 2-24 is the recommended site for Basin 4,5, and 6.** 

TABLE 7-1
COST COMPARISON: ONE POND VS. THREE PONDS

Basin	Pond Alternate	Total cost, \$		
4	2-18	1,142,300		
5	2-20a	1,176,900		
6	2-23	496,600		
	Total cost	2,815,800		
4,5,6	2-24	756,000		
	Potential Savings	2,059,800		

A summary of recommended pond sites is shown in Table 7-2 below.

TABLE 7-2
SUMMARY OF RECOMMENDED POND SITES

Pond · No.	Basin No.	Area (acres)	Total Cost \$	Relocations (Residential)	Hazmat Risk Rating
2-3	1	2.45	755,000	0	Medium
2-6	2	1.20	778,100	3	Low
2-15A	3	1.20	947,000	2	Low
2-24	4,5,6	5.00	756,000	0	Medium

TABLE 7-3a
ALTERNATIVES EVALUATION MATRIX

		Basin 1			Basin 2		Basin 3		
Pond Site	2-2	2-3	2-4/2-1	2-6	2-7	2-8a	2-11/2-12	2-11/2-14	2-15A
Location (Station)	388+00 LT	396+00 LT	406+00 RT	623+00 LT	623+00 RT	627+00 LT	645+00 RT	445+00 LT	627+00 LT
Size (Acres)	1.86	2,45	2.66	1.20	1.20	2.40	1.95	2.20	1,20
Wetland Impact	None								
Historic and Architectural Sites	None								
Contamination Type P=Petroleum H=Non Petroleum	Р	P.	Н	н	Н	Н	Р	Р	Н
Contamination Ranking	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Low
Additional Testing Cost,\$	4,000	4,000	0	0	0	0	8,000	8,000	0
Protected Species	None								
Outflow Pipe Length (feet)	1900	700	3600	900	900	700	900	1000	400
Pipe Cost,\$ Assume 36" pipe @ \$36/LF	68,400	25,200	108,000	32,400	32,400	25,200	32,400	36,000	14,400
Estimated R/W Cost,\$	728,300	729,800	1,146,200	745,700	2,152,200	2,356,800	1,577,900	2,267,300	932,600
Total Cost,\$	796,700	755,000	1,254,200	778,100	2,184,600	2,382,000	1,618,300	2,311,300	947,000

TABLE 7-3b
ALTERNATIVES EVALUATION MATRIX

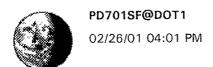
	Bas	sin 4		Basin 5			Basin 6		Basin 4,5, 6
Pond Site	2-17	2-18	2-19	2-20A	2-20B	2-21	2-22	2-23	2-24
Location (Station)	668+00 LT	689+00 LT	680+00 LT	679+00 LT	679+00 RT	690+00 LT	690+00 LT	697+00 LT	680+00, 1500' LT
Size (Acres)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.61	5.00
Wetland Impact	None	None	None	. None	None	None	None	None	None
Historic and Architectural Sites	None								
Contamination Type P=Petroleum H=Non Petroleum	H	Н	Н	Н	Р	Н	H	P	H
Contamination Ranking	Low	Low	Low	Low	Medium	Low	Low	Medium	Medium
Additional Testing Cost,\$	0	0	0	0	4,000	0	0	4,000	4,000
Protected Species	None								
Outflow Pipe Length (feet)	2000	2200	3000	3300	3500	3000	3000	3000	3600*
Pipe Cost,\$ Assume 36" pipe @ \$36/LF	72,000	79,200	108,000	118,800	126,000	108,000	108,000	108,000	129,600
Estimated R/W Cost,\$	1,104,100	1,063,100	1,330,300	1,058,100	1,200,500	1,605,300	1,517,600	384,600	622,400
Total Cost,\$	1,176,100	1,142,300	1,438,300	1,176,900	1,330,500	1,713,300	1,625,600	496,600	756,000

<sup>\*</sup> includes length of inflow pipe due to distance of Pond 2-24 from U.S. 301.

## **APPENDICES**

APPENDIX A	CORRESPONDENCE
APPENDIX B	SUPRA-3 ANALYSIS FOR THE CONCEPTUAL POND ALTERNATES BASINS 1 THROUGH 6
APPENDIX C	FLOODPLAIN COMPENSATION CALCULATIONS BASINS 1 THROUGH 6
APPENDIX D	POND COST ESTIMATES
APPENDIX E	LAKE ZEPHYR WATERSHED BASIN DELINEATION MAPS
APPENDIX F	LAKE ZEPHYR WATERSHED EXISTING CONDITIONS PROFILES
APPENDIX G	HISTORICAL DRAINAGE MAPS
APPENDIX H	AERIAL DRAINAGE MAPS

# APPENDIX A CORRESPONDENCE



To: Scott A Garth/D7/FDOT

CC:

Subject: US 301 Hazmat assessment for

new Pond sites

02/26/01 16:01 Date:

Farash, Scott From:

To: Arasteh, Megan

GARTH, SCOTT

Copylist: Gao, Ming

Bogen, Kirk

US 301 Hazmat assessment for new Pond sites Subject:

PD701SF - F

RD744MA - D

RD744SG - D

PD701GM - F

PD701KB - F

As we discussed, the Pond Site report can be completed using a preliminary risk rating for the three new pond sites. Ming suggested using a "medium" rating for the large site on undeveloped, wooded land and a "low" rating for the other two sites.

This is acceptable since the ratings should not affect the selection of the preferred pond sites unless the remediation cost is prohibitive.

DISTRICT SEVEN	TELEPHONE CONVERSATION
DESIGN 1201 N. MCKINLEY DRIVE	OFFICE CONVERSATION
TAMPA, FL 33612	TIME: // AM/PM
	DATE: ///3/00
CONVERSATION WITH: Joelly	
RE:	
RE.	
REPRESENTING: Pasa Com+	
DISCUSSION: I spoke to Jo	(
	Presently in design
are two projects associated	with Zephyr Creck.
Joellyn is sending me the	data
1. US 301 / chancey Rd	culvert upgrade
to triple 6'x4'	RCBC.
2. Geizer Rd Detention	Pond (2 178 acres?)
XC:	BY: 5G
	TITLE:
	ate after the shed shed 9
	•

## MEMORANDUM

### FLORIDA DEPARTMENT OF TRANSPORTATION

Drainage Design Office - M/S 7-800

DATE:

August 23, 2000

TO:

Scott Farash-FDOT Environmental Management Engineer

FROM:

Scott Garth-FDOT Drainage Engineer

SUBJECT:

US 301 Zephyrhills

From S.R. 39 to C.R. 54 FM 256422 1 21 01

Pre Application Meeting with SWFWMD

I met with Mr. Wojciech Mroz of the SWFWMD on August 1, 2000 at 9 am in Brooksville. The purpose of our meeting was to discuss criteria for the sizing and selecting of pond sites for the above referenced project.

I informed Wojciech that the project is not scheduled for design until 2002. I also showed him the proposed \*typical section (attached) as shown in the draft Preliminary Engineering Report. Proposed is Alternate 2 which is a one way pair involving the widening of 6<sup>th</sup> Street which is located west of US 301. Both US 301 and 6<sup>th</sup> Street are to be curb and gutter sections.

\*Note: The typical section presented in the meeting was incorrect. The correct typical has three lanes of traffic each direction rather than two.

Wojciech informed me that the Greiner study (*Lake Zephyr Watershed*, 1989) should be used as the most recent information. Based on our discussion several issues arose which are listed below.

- 1. For floodplain elevations use the Lake Zephyr cross section tables in the Greiner report.
- 2. In general, US 301 forms a ridge between the Lake Zephyr Basin (open) and closed basins to the east. Mixing of basins is not recommended. Therefore, separate storage facilities should be provided for both basins. For the west side of US 301 (including 6<sup>th</sup> Street) use the difference in the 25yr/24hr pre- post volume. For portions of the east side of US 301 that are located within

closed basins, ponds should be sized to accommodate the pre-post volume for the 100yr/24hr

event. However, if the east side of US 301 is to be taken into the Lake Zephyr Basin where

runoff used to outfall into a closed basin (i.e., mixing basins), then 100 year total retention would

be required for the eastern portion that did not previously go to Lake Zephyr. This would likely

increase the size of the pond for that basin.

3. The portion of 6th Street that is presently not paved (i.e., dirt road) will be considered

undeveloped and will need to consider off-site runoff as well.

4. Contact Joellyn Miller (Pasco County) for information regarding the development south of the

SR 39/US 301 intersection.

5. The culvert north of Chancey Road is to be restricted to the pre-development discharge rate until

the large pond on Geiger Road is constructed as shown in Greiner report. When the pond is

constructed, the pipe can be opened up.

End of Memorandum

Attachment

cc: Wojciech Mroz

Megan Arasteh

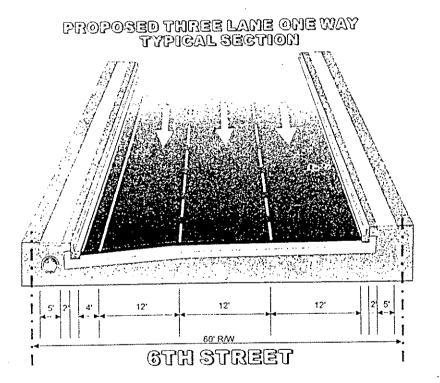
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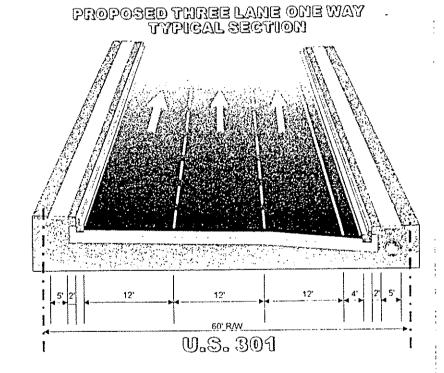
2

# U.S. 301 ZEPHYRHILLS . FROM S.R. 39 TO C.R. 54

ITEM SEG. 256422 1

FEDERAL AID MO. 1455-001-U





ALTERNATIVE 2

# RECORD OF TELEPHONE COMMUNICATION

DATE: 02-21-00

TIME: 2:00 pm

PROJECT NAME: US 301 Zephyrhills

PROJECT NO.: 25642212101

PARTY CALLING: Scott A. Garth

COMPANY: FDOT D. 7

PARTY CONTACTED: Rick Moore

COMPANY: CITY OF ZEPHYRHILLS

813-788-2313

SUBJECT: 12" rcp @ U.S. 301 and Fort King Road

# TELEPHONE COMMUNICATION SUMMARY (Including Decisions and Commitments)

I spoke to Rick today concerning the 12-inch cross drain at 14th Avenue and U.S. 301. Rick said the pipe conveys runoff to the west to the Zephyrhills Elementary School detention pond. The pond has a pump station with a 16-inch force main that pumps to Lake Zephyr. This was permitted by SWFWMD.

As for the cross drain, only Fort King Road overtops. No overtopping of U.S. 301.

### **ACTION REQUIRED**

obtain SWFWMD permit for pump station at Zephyrhills Elementary School

H:\DRAINAGE\SCOTT\US301PDE\022100.WPD

DISTRICT SEVEN	TELEPHONE CONVERSATION
DESIGN 1201 N. MCKINLEY DRIVE	OFFICE CONVERSATION
TAMPA, FL 33612	TIME: 9:30 (AM)PM
	DATE: 11/15/99
CONVERSATION WITH: RICK /	Moore 313-782-5531
RE: US 301 Zephyrhills	PDAE
Existing City Pond	across from city Hall
REPRESENTING: City of Zeph	
DISCUSSION: T asked Rick	about the existing pond
located between 7th Street	et and US301, north
of S.R. 54 west of c	ity ttell east of Clock
Restaurant.	
Rick Said that po	nd was built in 1960's
and is duried via a	12" FM to Zeply-Lake.  to SwFWMD) The
lass permitted - prior	to SWFWMD) The
Dona Las Fredire 0005	lens and the city has
tord to increase of	apacity of pury thru
(atting) but his	1- + see able to. Port is
JOHNAN JOHNAN MAN	VAD Dim / Ge 10 to
eguipha with a good	Kup pun / generator.
	data but no old plans/cales.
Kick is agreeaslan to	oT usage of pond if purp
capacity could be increas	sed the swrwni and Dot maintaine
xc:	BY: Scott Garth
	TITLE: Draining
Carlos Lopez	

DISTRICT SEVEN	TELEPHONE CONVERSATION					
DESIGN 1201 N. MCKINLEY DRIVE	OFFICE CONVERSATION					
TAMPA, FL 33612	TIME: 12:40 AM/PM)					
,	1					
,	DATE: /5/4/99					
CONVERSATION WITH: Rick MOO	ге					
RE: US 301 PDAE"						
REPRESENTING: City of Zephyshil	15 Public Works Director					
DISCUSSION: I asked Rick two	e (2) questions:					
D. have a site of	ian for the proposed					
Do you have a site plan for the proposed  Ferman Auto Site on the east side of US 301						
between Ave B and Ave						
ł						
\	lan has been submitted but					
not approved yet.	City of Zephyshills tried					
	y but failed Oval Terrance					
is the owner Kill	K suggested calling him to see					
if he's interested in	Selling.					
2) Dry retention ponds	north of GTE on 7th					
Street. De you he	ve calcis/ borings/perc rates.					
	- Nikolov) did design.					
Rick to get us co,	py of calcis. We are welcome					
	. They are overdesigned and					
l'	BY: Scott Garth					
AC.	TITLE: Draineye					
<u>Carlos Lopez</u>						

DISTRICT SEVEN	TELEPHO	ONE CONVERSATION
DESIGN 1201 N. MCKINLEY DRIVE	OFFICE	CONVERSATION
TAMPA, FL 33612	TIME:	2:30 AM/PM)
	DATE:	9/15/99
1	•	
CONTERCATION WITH. TOCCY	Som for	· .d
CONVERSATION WITH: Jerry		
RE: US301 Zghyrhills PD 5R39 to 5R54	-12.	
REPRESENTING: Brusksville - Mail	nterince	
DISCUSSION: <u>Carlos Lopez</u> an		
Jerry Sanford to discuss dr	ainage	issues concerning US301
in Zephyrhills. The Following	items.	were discussed:
		_
o No overtoffing association	ted Wi	the existing 24"
cross drain just north	of Fi	- Avenue. Jerry feels
that it probably used	to fo	w west towards
Zephy- Creek.		
u Ponding problem from	SIR.	39 to coss drain
——————————————————————————————————————		where closed piping exists)
= Ponding behind Zeph		
o Jerry referred to n		
C 1 10 10 10 100	Dungs	ng involved? Drainage
"Killed" the proje		) 111011011
XC: <u>Carlos LopeZ</u>		Scott Garth
Jerry Sanford	TITLE	: Drainage Engineer
		,
	1	

## MEMORANDUM TO PROJECT NOTEBOOK

Date:

June. 2, 1993.

From:

Jack M. Wright, Project Designer

RE:

Concerns of FDOT Maintenance Department

Project No. 93270, (R 39 (US 301), Pasco County, Florida

On this date I talked with Mr. Jerry Sanford of FDOT, Dade City, Florida, regarding any special concerns they might have about drainage or other facets of maintenance of the captioned project. Mr. Sanford expressed concern for the following locations:

- 1. Intersection of 12th Avenue and US 301. Mr. Sanford stated that even though he had not witnessed any flooding at this location, he felt that the roadway was low in this area and that an analysis of the area would be in order. He stated that the basin was closed and the he felt that this was a potential problem area.
- 2. Intersection of Fort King Road and US 301. Mr. Sanford stated that this intersection floods very frequently and that the local police had become very efficient at closing this intersection to traffic during rainstorms. He also related that the properties adjacent to this intersection were inundated at these times as well. This location is a major source of concern for FDOT forces.
- 3. Intersection of 6th Avenue and US 301 near the Clock Restaurant. Mr. Sanford stated that the outfall pipe from the side ditch at this location which transports water to the City's DRA is of insufficient capacity to accept the runoff at this location. Some minor flooding and excess standing water is experienced at this location.
- 4. Intersection of 5th Avenue (SR 54) and US 301. Some flooding has been experienced along the side streets at this location. The problem may well be outside the Scope of this project, but Mr. Sanford expressed the desire for us to investigate this location to determine if anything could be done to alleviate this problem.
- 5. First intersection north of begin project to east: Mr. Sanford stated that this location traps runoff and that the side ditches have no outfall. He suggested that the possibility of cutting a lateral ditch to the existing canal be investigated or transporting runoff to the existing city right-of-way and thence to the canal. (There may be difficulties encountered in that the canal is a connection for the chain of lakes in the area. Should these be classed as "outstanding" waters it may not be possible to discharge without prior treatment, if at all.)

MEMORANDUM TO PROJECT NOTE BOOK

FROM: JACK M. WRIGHT, PROJECT DESIGNER

AUGUST 25, 1993

PROJECT NO. 93709, SR 39 (US 301), PASCO COUNTY, FLORIDA

RE: MEMORANDUM DATED JUNE 2, 1993 DOCUMENTING CONCERNS OF THE FDOT MAINTENANCE DEPARTMENT

ON THIS DATE LT. TRACY OF THE ZEPHYRHILLS POLICE DEPARTMENT WAS CONTACTED REGARDING THE FLOODING REPORTED TO CEA IN THE CAPTIONED MEMORANDUM. LT. TRACY STATED THAT NO FLOODING IMPACTED US 301 (SR 39). DURING HEAVY RAINSTORMS FLOODING DOES OCCUR NEAR THE INTERSECTION OF FORT KING AVENUE AND SR 39, BUT THE FLOODING ONLY AFFECTS FORT KING ROAD.

RESPECTFULLY SUBMITTED,

FRANK MATTMULLER

FROM COASTAL ENGINEERING REPORT (8-93)

## APPENDIX B SUPRA-3 ANALYSIS FOR THE CONCEPTUAL POND ALTERNATES BASINS 1 THROUGH 6

Hydology and pond routings are kept in file H:\drainage\scott\US301pde\psr

### **BASIN 1 - HYDROLOGY 2-2**

Pre Development Hydrology

Basin 1

Approximate Stations

385+00 to 424+00 LT. US 301

Total Area (ac) =

8.89

385+00 to 424+00 RT. US301

Soils =

Tavares-Urban land complex

606+00 to 618+00 6th Street

Weighted CN Calculation:

**Hydrologic** 

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (30')		2.68	98	262.64
pervious	Α	2.69	39	104.91
Pond Site	Α	1.86	39	72.72
6th Street:				
residential (1/4 ac)	Α	1.28	61	78.08
business	Α	0.38	89	33.82
Total Area (ac) =		8.89		552.17

Weighted CN = 62.1

Post Development Hydrology

Basin 1

Approximate Stations

385+00 to 424+00 LT. US 301

Total Area (ac) = 8.89

385+00 to 424+00 RT. US301

Soils =

Tavares-Urban land complex

606+00 to 618+00 6th Street

Weighted CN Calculation:

Hydrologic

	,			
Land Use	Soil Group	Area (ac)	CN	Product
US 301:			***************************************	
Impervious (54')		4.83	98	473.34
Pervious	Α	0.54	39	21.06
Pond (Impervious)		1.16	98	113.89
Pond (Pervious)	Α	0.70	39	27.40
6th Street:				
Impervious (54')	•	1.49	98	146.02
Pervious	Α	0.17	39	6.63
Total Area (ac) =		8.89		788.34
		Weighted C	N =	88.6
		_		

### **BASIN 1 - TREATMENT 2-2**

1 in. over impervious, DCIA and Pond TOB = 0.62 Ac.-ft

### **BASIN 1 - HYDRAULICS 2-2**

Basin No. 1 Location 388+00 RT.

Estimated Ground Surface Elevation at pond = 76.0 ft.
Estimated depth to Seasonal High Water, ft = 3.50 ft.
Estimated Seasonal High Water Elevation = 72.5 ft.

Pond site width= 285 ft. Pond site Length= 285 ft.
Pond site area= 1.86 Ac.
Pond TOB width = 225 Pond TOB length = 225 ft.
Pond TOB area= 1.16 Ac.
Pond TOB el. = 76.0 ft.

Pond 100 yr. el. = 75.13 ft. E-Max from Supra

Weir elevation = 73.2 ft.

Outfall TW elevation (5 yr.)= 72.0 ft.

Length of pipe to outfall = 1900 ft.

estimated pipe size = 36 in.

Estimated low road E/P in basin = 77.0 ft.

5 yr. Critical duration pond elevation = 74.33 ft. from supra HGL slope = 0.08% estimated

19.4 cfs

Approximate stormsewer length pond to low point = 20 ft. calculated HGL at low point = 74.35 ft.

Low point - HGL = 2.7 ft. ok

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11-14-2000

### Pond 2-2 (22bas1)

\*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	8.89
CURVE NUMBER	<b>3</b> 22	62.1
RUNOFF COEFFICIENT	=	.348
TIME OF CONCENTRATION (min.)		30.0
RAINFALL INTENSITY (in/hr)		6.38
PEAK FLOW RATE (cfs)	=	19.71
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	8.89
CURVE NUMBER	=	88.6
RUNOFF COEFFICIENT	=	.781
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	=	5.96

.0     .000     .00     73.20     .00     .00     .00       .2     .500     20.68     73.38     .57     .00     .57       .4     .750     31.02     73.78     3.25     .00     3.25       .6     1.000     41.36     74.29     8.24     .00     8.24       .8     1.250     51.70     74.84     15.21     .00     15.21	TIME (hrs)	I/Ptotal RATIO	INFLOW (cfs)	STAGE (ft)	TOTAL OUTFLOW	PERCOLATION FLOW	CONNECTED OUTFLOW
1.0     .500     20.68     75.13     19.42     .00     19.42       1.2     .300     12.41     75.09     18.83     .00     18.83       1.4     .250     10.34     74.98     17.31     .00     17.31       1.6     .200     8.27     74.87     15.73     .00     15.73       1.8     .150     6.20     74.75     14.08     .00     14.08       2.0     .000     .00     74.60     12.01     .00     12.01	.2 .4 .6 .8 1.0 1.2 1.4 1.6	.500 .750 1.000 1.250 .500 .300 .250 .200	20.68 31.02 41.36 51.70 20.68 12.41 10.34 8.27 6.20	73.38 73.78 74.29 74.84 75.13 75.09 74.98 74.87 74.75	.57 3.25 8.24 15.21 19.42 18.83 17.31 15.73 14.08	.00 .00 .00 .00 .00 .00	.57 3.25 8.24 15.21 19.42 18.83 17.31 15.73 14.08

### OUTPUT SUMMARY

\_\_\_\_\_\_

 PEAK FLOW (cfs)
 = 19.42

 PEAK STAGE (ft)
 = 75.13

 PEAK STORAGE (ac-ft)
 = 1.953

 TIME TO PEAK (hrs)
 = 1.00

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Pond 2-2 (22bas1)

### \*\*\*\*\* WEIR STRUCTURE \*\*\*\*\*

NUMBER OF WEIRS	=	1
WEIR COEFFICIENT	=	3.3
EXPONENTIAL CONSTANT	==	1.5
WEIR ELEVATION (ft)	==	73.20
WEIR LENGTH (ft)	=	2.20
TOP BANK ELEVATION (ft) POND AREA AT TOP BANK (acres) POND PERIMETER AT TOP BANK (ft) SIDE SLOPE OF POND DESIGN NORMAL WATER ELEVATION (ft) DISCHARGE ELEVATION (ft)	= = =	900.0
DISCIANGE EDEVALION (IC)	=	73.20
TREATMENT VOLUME (ac-ft)	=	.620
PERCOLATION RATE (in/hr)	===	.00

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
73.20	.940	.000	.00	.00	.00
73.20	.940	.000	.00	.00	.00
73.40	. 955	.190	.00	. 65	.65
73.60	.970	.382	.00	1.84	1.84
73.80	.985	.578	.00	3.37	3.37
74.00	1.001	.776	.00	5.19	5.19
74.20	1.016	.978	.00	7.26	7.26
74.40	1.032	1.183	.00	9.54	9.54
74.60	1.047	1.390	.00	12.03	12.03
74.80	1.063	1.601	.00	14.69	14.69
75.00	1.079	1.816	.00	17.53	17.53
75.20	1.095	2.033	.00	20.53	20.53
75.40	1.111	2.254	.00	23.69	23.69
75.60	1.127	2.477	.00	26.99	26.99
75.80	1.144	2.704	.00	30.44	30.44

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

11-14-2000

Pond 2-2 (22bas1)

### OUTPUT SUMMARY

FREQUENCY	RESULTS			DURATIO		
	<u> </u>	1-HR	2-HR	4-HR	8-HR	24-HR
2-YR	Q-pre Q-post	2.23	3.77	5.43	7.34	10.61
	E-max	73.98	74.03	74.08	74.09	73.77
5-YR	Q-pre	4.30	6.61	9.02	11.56	15.75
	Q-post E-max	7.38	7.98 74.26	8.59 74.32	8.78	4.39
10-YR	Q-pre	6.08	9.18	11.84	15.01	19.48
	Q-post E-max	9.33	10.33 74.46	10.55 74.48	10.99 74.52	5.27 74.01
25-YR	Q-pre	8.96	12.71	16.22	19.70	25.23
	Q-post E-max	74.62	13.26 74.69	13.43 74.71	13.64 74.72	6.67
50-YR	Q-pre	11.41	15.96	19.48	23.33	28.88
	Q-post E-max	14.70 74.80	16.23 74.91	15.48 74.86	15.73 74.87	7.39
100-YR	Q-pre	14.24	19.71	23.73	27.87	33.80
	Q-post E-max	17.27 74.98	19.42 75.13	18.20 75.04	18.32 75.05	8.51 74.31

CRITICAL DURATION: \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 19.71 Q-post (cfs) = 19.42

#### **BASIN 1 - HYDROLOGY 2-3**

Pre Development Hydrology

Basin 1

Total Area (ac) = 9.48

Soils =

Tavares-Urban land complex

Approximate Stations

385+00 to 424+00 LT. US 301

385+00 to 424+00 RT. US301

606+00 to 618+00 6th Street

Weighted CN Calculation:

Hydrologic

	i i y ai o logio			
Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (30')		2.68	98	262.64
pervious	Α	2.69	39	104.91
Pond Site	Α	2.45	39	95.48
6th Street:				
residential (1/4 ac)	A	1.28	61	78.08
business	· A	0.38	89	33.82
Total Area (ac) =		9.48 <b>Weighted CN =</b>	60.7	574.93

Post Development Hydrology

Basin 1

Total Area (ac) = 9.478232

Soils =

Tavares-Urban land complex

Approximate Stations

385+00 to 424+00 LT. US 301

385+00 to 424+00 RT. US301

606+00 to 618+00 6th Street

Weighted CN Calculation:

Hydrologic

	riyurologic			
Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		4.83	98	473.34
Pervious	Α	0.54	39	21.06
Pond (Impervious	s)	1.62	98	158.6651
Pond (Pervious)	Α	0.83	39	32.33884
6th Street:				
Impervious (54')		1.49	98	146.02
Pervious	Α	0.17	39	6.63
Total Area (ac) =		9.48		838.05
		Weighted 0	CN =	88.4

#### **BASIN 1 - TREATMENT 2-3**

1 in. over impervious, DCIA and Pond TOB = 0.66 Ac.-ft

#### **BASIN 1 - HYDRAULICS 2-3**

Basin No.

1

Location

396+00 LT.

Estimated Ground Surface Elevation at pond =	79.0	ft.
Estimated depth to Seasonal High Water, ft =	3.50	ft.
Estimated Seasonal High Water Elevation =	75.5	ft.

Pond site width= 385 ft. Pond site Length= 277 ft.
Pond site area= 2.45 Ac.
Pond TOB width = 325 Pond TOB length = 217 ft.

Pond TOB area = 1.62 Ac. Pond TOB el. = 79.0 ft.

Pond 100 yr el. = 77.52 ft. E-Max from Supra

Weir elevation = 76.01 ft.

Outfall TW elevation (5 yr)= 75.0 ft.

Length of pipe to outfall = 700 ft.

estimated pipe size = 30 in. 19.5 cfs

Estimated low road E/P in basin = 80.0 ft.

5 yr. Critical duration pond elevation = 76.9 ft. from supra HGL slope = 0.08% estimated

Approximate stormsewer length pond to low point = 1200 ft. calculated HGL at low point = 77.87 ft.

Low point - HGL = 2.1 ft. ok

11-14-2000

### Basin $\cdot$ 1 - Pond 2-3 (23bas1)

# \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	9.48
CURVE NUMBER	=	60.7
RUNOFF COEFFICIENT	=	.328
TIME OF CONCENTRATION (min.)	=	30.0
RAINFALL INTENSITY (in/hr)	=	6.38
PEAK FLOW RATE (cfs)	=	19.83
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	9.48
CURVE NUMBER	=	88.4
RUNOFF COEFFICIENT	=	.777
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	=	5.96

TIME (hrs)	I/Ptotal RATIO	INFLOW (cfs)	STAGE (ft)	TOTAL OUTFLOW	PERCOLATION FLOW	CONNECTED OUTFLOW
.0	.000	.00	76.01	.00	.00	.00
. 2	.500	21.95	76.14	.62	.00	.62
.4	.750	32.93	76.45	3.14	.00	3.14
.6	1.000	43.90	76.84	8.02	.00	8.02
.8	1.250	54.88	77.28	15.10	.00	15.10
1.0	.500	21.95	77.52	19.54	.00	19.54
1.2	.300	13.17	77.50	19.15	.00	19.15
1.4	.250	10.98	77.42	17.76	.00	17.76
1.6	.200	8.78	77.34	16.28	.00	16.28
1.8	.150	6.59	77.25	14.68	.00	14.68
2.0	.000	.00	77.14	12.65	.00	12.65

#### OUTPUT SUMMARY

PEAK FLOW (cfs) PEAK STAGE (ft) = 19.54= 77.52 . PEAK STORAGE (ac-ft) = 2.116 TIME TO PEAK (hrs) = 1.00

11-14-2000

Basin 1 - Pond 2-3 (23bas1)

#### \*\*\*\*\* WEIR STRUCTURE \*\*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft) WEIR LENGTH (ft)	= 1 = 3.3 = 1.5 = 76.01 = 3.20
TOP BANK ELEVATION (ft) POND AREA AT TOP BANK (acres) POND PERIMETER AT TOP BANK (ft) SIDE SLOPE OF POND DESIGN NORMAL WATER ELEVATION (ft) DISCHARGE ELEVATION (ft)	=1084.0 $=4.0$
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)	= .660 = .00

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
76.01 76.01	1.336 1.336	.000	.00	.00	.00
76.21	1.354	.269	.00	.94	.94
76.41	1.372	.541	.00	2.67	2.67
76.61	1.390	.818	.00	4.91	4.91
76.81	1.409	1.098	.00	7.56	7.56
77.01	1.428	1.381	.00	10.56	10.56
77.21	1.447	1.669	.00	13.88	13.88
77.41	1.465	1.960	.00	17.49	17.49
77.61	1.484	2.255	.00	21.37	21.37
77.81	1.504	2.554	.00	25.50	25.50
78.01	1.523	2.856	.00	29.87	29.87
78.21	1.542	3.163	.00	34.46	34.46
78.41	1.562	3.473	.00	39.26	39.26
78.61	1.581	3.788	.00	44.27	44.27

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

11-14-2000

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Basin 1 - Pond 2-3 (23bas1)

### OUTPUT SUMMARY

FREQUENCY	RESULTS	1-HR	2-HR	DURATIC 4-HR		24-HR
2-YR	Q-pre	1.98	3.53	5.22	7.21	10.65
	Q-post	4.80	5.37	6.06	6.30	3.32
	E-max	76.60	76.65	76.70	76.72	76.47
5-YR	Q-pre	4.00	6.37	8.88	11.55	16.01
	Q-post	7.20	7.94	8.78	9.02	4.60
	E-max	76.78	76.84	76.89	76.91	76.58
10-YR	Q-pre	5.78	8.98	11.77	15.13	19.92
	Q-post	9.17	10.29	10.82	11.35	5.56
	E-max	76.92	76.99	77.03	77.06	76.66
25-YR	Q-pre	8.68	12.59	16.30	20.01	25.97
	Q-post	12.11	13.19	13.86	14.15	7.04
	E-max	77.10	77.17	77.21	77.22	76.77
50-YR	Q-pre	11.17	15.95	19.68	23.81	29.81
	Q-post	14.60	16.25	16.05	16.36	7.80
	E-max	77.25	77.34	77.33	77.35	76.83
100-YR	Q-pre	14.05	19.83	24.11	28.57	35.01
	Q-post	17.21	19.54	18.92	19.14	9.00
	E-max	77.39	77.52	77.48	77.49	76.91

CRITICAL DURATION: \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 19.83 Q-post (cfs) = 19.54 E-max (ft) = 77.52

#### **BASIN 1 - HYDROLOGY 2-1**

Pre Development Hydrology

Basin 1

Approximate Stations 385+00 to 395+00 US 301

Total Area (ac) = 2.48

Soils =

Tavares-Sand

Weighted CN Calculation:

Hydrologic

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (30')		0.69	98	67.62
pervious	Α	0.69	39	26.91
Pond Site	Α	1.10	39	43.09
		<del></del>		
Total Area (ac) =		2.48		137.62

Weighted CN = 55.4

Post Development Hydrology

Basin 1

Approximate Stations 385+00 to 395+00 US 301

Total Area (ac) = 2.48

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Hydrologic

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		1.24	98	121.52
Pervious	Α	0.14	39	5.46
Pond (Impervious)		0.65	98	63.39
Pond (Pervious)	Α	0.46	39	17.86
Total Area (ac) =		2.48		208.23
·		Weighted C	N =	83.8

#### **BASIN 1 - TREATMENT 2-1**

Pond TOB el. =

Pond 100 yr el. =

1 in. over impervious, DCIA and Pond TOB =

**BASIN 1 - HYDRAULICS 2-1** Basin No. 1 Location 385+00 RT Estimated Ground Surface Elevation at pond = 76.0 ft. Estimated depth to Seasonal High Water, ft = 3.50 ft. Estimated Seasonal High Water Elevation = 72.5 ft. Pond site width= 175 ft. Pond site Length= 550 ft. Pond site area= 1.10 Ac. (triangular shape) Pond TOB width = 115 Pond TOB length = 490 ft. Pond TOB area= 0.65 Ac.

0.16 Ac.-ft

Weir elevation = 72.94 ft.

Outfall TW elevation (5 yr)= 72.0 ft.

Length of pipe to outfall = 1500 ft.

estimated pipe size = 36 in.

73.91 ft. E-Max from Supra

76.0 ft.

Estimated low road E/P in basin = 76.0 ft.

5 yr. Critical duration pond elevation = 73.46 ft. from supra

HGL slope = 0.08% estimated

Approximate stormsewer length pond to low point = 20 ft.

calculated HGL at low point = 73.48 ft.

Low point - HGL = 2.5 ft.

1- 4-2001

### Pond 2-1 (21bas1)

# \*\*\*\* 8-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	2.48
CURVE NUMBER	=	55.4
RUNOFF COEFFICIENT	=	.400
TIME OF CONCENTRATION (min.)	=	30.0
RAINFALL INTENSITY (in/hr)	==	6.38
PEAK FLOW RATE (cfs)	=	6.33
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	.==	2.48
CURVE NUMBER	***	83.8
RUNOFF COEFFICIENT	==	.786
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	==	9.20

TIME	I/Ptotal	INFLOW	STAGE	TOTAL	PERCOLATION	CONNECTED
(hrs)	RATIO	(cfs)	(ft)	OUTFLOW	FLOW	OUTFLOW
.0	.000	.00	72.50	.00	.00	.00
2.0	.060	1.08	72.70	.00	.00	.00
3.0	.150	2.69	73.07	.44	.00	.44
4.0	.420	7.53	73.69	3.38	.00	3.38
5.0	.160	2.87	73.91	4.73	.00	4.73
6.0	.060	1.08	73.58	2.68		2.68
7.0	.050	.90	73.37	1.51		1.51
8.0	.000	.00	73.21	.95	.00	.95

#### OUTPUT SUMMARY

 PEAK FLOW (cfs)
 =
 4.73

 PEAK STAGE (ft)
 =
 73.91

 PEAK STORAGE (ac-ft)
 =
 .570

 TIME TO PEAK (hrs)
 =
 5.00

1- 4-2001

Pond 2~1 (21bas1)

#### \*\*\*\*\* WEIR STRUCTURE \*\*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft) WEIR LENGTH (ft)	= 1 = 3.3 = 1.5 = 72.94 = 1.50
TOP BANK ELEVATION (ft) POND AREA AT TOP BANK (acres) POND PERIMETER AT TOP BANK (ft) SIDE SLOPE OF POND DESIGN NORMAL WATER ELEVATION (ft) DISCHARGE ELEVATION (ft)	=1000.0 = 4.0
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)	

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
72.50	.347	.000	.00	.00	.00
72.94	.383	.160	.00	.00	.00
73.44	.425	.362	.00	1.75	1.75
73.94	.467	.585	.00	4.95	4.95
74.44	.510	.830	.00	9.09	9.09
74.94	.554	1.096	.00	14.00	14.00
75.44	.599	1.384	.00	19.57	19.57
75.94	.644	1.695	.00	25.72	25.72

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

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Pond 2-1 (21bas1)

### OUTPUT SUMMARY

FREQUENCY   RESULTS   DURATION						
FREQUENCY	RESULIS	1-HR		DURATIO 4-HR		24-HR
2-YR	Q-pre	.21	.51	.87	1.32	2.16
	Q-post	.26	.61	1.00	1.16	.79
	E-max	73.01	73.11	73.22	73.27	73.17
5-YR	Q-pre	.56	1.07	1.65	2.29	3.43
	Q-post	.80	1.16	1.64	1.86	1.11
	E-max	73.17	73.27	73.41	73.46	73.26
10-YR	Q-pre	.91	1.62	2.29	3.12	4.37
	Q-post	1.22	1.66	2.30	2.64	1.34
	E-max	73.29	73.41	73.53	73.58	73.32
25-YR	Q-pre	1.49	2.41	3.32	4.27	5.87
	Q-post	1.82	2.51	3.17	3.46	1.71
	E-max	73.45	73.56	73.66	73.71	73.43
50-YR	Q-pre	2.02	3.16	4.10	5.18	6.81
	Q-post	2.56	3.34	3.76	4.03	1.94
	E-max	73.57	73.69	73.75	73.80	73.47
100-YR	Q-pre	2.63	4.05	5.15	6.33	8.11
	Q-post	3.31	4.22	4.51	4.73	2.27
	E-max	73.68	73.83	73.87	73.91	73.52

CRITICAL DURATION: \*\*\*\* 8-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 6.33 Q-post (cfs) = 4.73 E-max (ft) = 73.91

#### **BASIN 1 - HYDROLOGY 2-4**

Pre Development Hydrology

Basin 1

Approximate Stations

395+00 to 424+00 US 301

Total Area (ac) = 7.22

606+00 to 618+00 6th Street

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Hydrologic

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (30')		2.00	98	196
pervious	Α	2.00	39	78
Pond Site	Α	1.56	39	60.88
6th Street:				
residential (1/4 ac)	` <b>A</b>	1.28	61	78.08
business	Α	0.38	89	33.82
Total Area (ac) =		7.22		446.78

Weighted CN = 61.9

Post Development Hydrology

Basin 1

Approximate Stations

395+00 to 424+00 US 301

Total Area (ac) = 7.22

606+00 to 618+00 6th Street

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

**Hydrologic** 

	· · · · · · · · · · · · · · · · · · ·			
Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		3.60	98	352.8
Pervious	Α	0.40	39	15.6
Pond (Impervious)		0.90	98	88.19
Pond (Pervious)	Α	0.66	39	25.79
6th Street:				
Impervious (54')		1.49	98	146.02
Pervious	Α	0.17	39	6.63
Total Area (ac) =		7.22		635.03
		Weighted C	N =	87.9

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### **BASIN 1 - TREATMENT 2-4**

1 in. over impervious, DCIA and Pond TOB = 0.50 Ac.-ft

### **BASIN 1 - HYDRAULICS 2-4**

Basin No.	1
Lagation	606 - 00 DT

Location 606+00 RT.

Estimated Ground Surface Elevation at pond =	78.0	ft.
Estimated depth to Seasonal High Water, ft =	3.50	ft.
Estimated Seasonal High Water Elevation =	74.5	ft.

Pond site width=	200 ft.	Pond site Length=	340 ft.
Pond site area=	1.56 Ac.		
Pond TOB width =	140	Pond TOB length =	280 ft.
D. ITOD	0.00.4	<del>-</del>	

Pond TOB area= 0.90 Ac. Pond TOB el. = 78.0 ft.

Pond 100 yr el. = 76.96 ft. E-Max from Supra

Weir elevation =	75.25 ft.	
Outfall TW elevation (5 yr)=	76.0 ft.	
Length of pipe to outfall =	1900 ft.	
estimated pipe size =	36 in.	19.1 cfs

Estimated low road E/P in basin =	80.0 ft.
5 yr. Critical duration pond elevation =	76.2 ft. from supra
HGL slope =	0.08% estimated
Approximate stormsewer length pond to low point =	1600 ft.
calculated HGL at low point =	77.5 ft

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Low point - HGL =

ok

2.5 ft.

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#### Pond 2-4 (24bas1)

\*\*\*\* 8-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	7.22
CURVE NUMBER	=	61.9
RUNOFF COEFFICIENT	=	.489
TIME OF CONCENTRATION (min.)	=	30.0
RAINFALL INTENSITY (in/hr)	=	6.38
PEAK FLOW RATE (cfs)	=	22.51
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)		7.22
CURVE NUMBER	=	87.9
RUNOFF COEFFICIENT		.840
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	-22	9.20

TIME (hrs)	I/Ptotal	INFLOW	STAGE	TOTAL	PERCOLATION	CONNECTED
	RATIO	(cfs)	(ft)	OUTFLOW	FLOW	OUTFLOW
.0 1.0 2.0 3.0 4.0 5.0 6.0 7.0	.000 .020 .060 .150 .420 .160 .060	.00 1.12 3.35 8.37 23.45 8.93 3.35 2.79	74.50 74.57 74.84 75.48 76.59 76.96 76.40 76.03 75.78	.00 .00 .00 1.08 10.41 14.85 8.26 4.73 2.60	.00	.00 .00 .00 1.08 10.41 14.85 8.26 4.73 2.60

#### OUTPUT SUMMARY

 PEAK FLOW (cfs)
 = 14.85

 PEAK STAGE (ft)
 = 76.96

 PEAK STORAGE (ac-ft)
 = 1.805

 TIME TO PEAK (hrs)
 = 5.00

1- 4-2001

Pond 2-4 (24bas1)

### \*\*\*\*\* WEIR STRUCTURE \*\*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft) WEIR LENGTH (ft)	=======================================	3.3 1.5 75.25 2.00
TOP BANK ELEVATION (ft) POND AREA AT TOP BANK (acres) POND PERIMETER AT TOP BANK (ft) SIDE SLOPE OF POND DESIGN NORMAL WATER ELEVATION (ft) DISCHARGE ELEVATION (ft)	=======================================	78.00 .900 840.0 4.0 74.50 75.25
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)	 	.500

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

		<del> </del>			
STAGE	AREA (acres)	STORAGE	PERCOLATION	CONNECTED	TOTAL
(ft)		(ac-ft)	FLOW	OUTFLOW	OUTFLOW
74.50 75.25 75.75 76.25 76.75	.648 .699 .734 .770 .806	.000 .505 .863 1.239 1.633	.00 ,00 .00 .00	.00 .00 2.33 6.60 12.12	.00 .00 2.33 6.60 12.12
77.25	.843	2.045	.00	18.67	18.67
77.75	.881	2.476		26.09	26.09

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

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Pond 2-4 (24bas1)

# OUTPUT SUMMARY

						·	·	
	FREQUENCY	RESULTS			DURATIO			
	 	[ 	1-HR	2-HR	4-HR	8-HR	24-HR	,
	2-YR	Q-pre	1.76	3.01	4.35	5.90	8.54	_
		Q-post E-max	1.21 75.51	2.04	3.35	3.85	2.43	
	! 		12.51	75.69	75.87	75.93	75.76	
	5-YR	Q-pre	3.42	5.29	7.25	9.30	12.71	
		Q-post E-max	2.76 75.80	4.02	5.77	6.37	3.58	
-	· 		100.00	75.95	76.15	76.22	75.90	
	10-YR	Q-pre	4.86	7.37	9.52	12.09	15.73	
		Q-post E-max	4.39	5.91	7.64	8.43	4.31	
-	·		75.99	76.17	76.34	76.42	75.98	
	25-YR	Q-pre	7.18	10.22	13.07	15.89	20.39	
		Q-post	6.65	8.39	10.17	10.86	5.43	
-		E-max	76.25	76.41	76.57	76.64	76.11	
-	50-YR	Q-pre	9.16	12.85	15.70	18.83	23.35	
		Q-post	8.90	10.90	11.93	12.58	6.01	
-		E-max	76.46	76.64	76.73	76.78	76.18	
	100-YR	Q-pre	11.44	15.88	19.14	22.51	27.34	
	.,,,	Q-post	11.12	13.64	14.33	14.85	6.93	
		E-max	76.66	76.87	76.92	76.96	76.28	

CRITICAL DURATION : \*\*\*\* 8-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 22.51 Q-post (cfs) = 14.85 E-max (ft) = 76.96

### **BASIN 2 - HYDROLOGY 2-6**

Pre Development Hydrology

Basin 2

Approximate Stations 424+00 to 432+00 LT. US 301

618+00 to 638+00 6th Street

Total Area (ac) =

4.24

Soils =

Tavares-Urban land complex

# Weighted CN Calculation:

F F		
Hyd	raia	AIA.
1 I V V	I VIV	uic
		J

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (15')		0.28	98	27.44
pervious (15')	Α	0.28	39	10.92
Pond Site	A	1.20	61	73.44
6th Street:				
impervious (400'x24	", ` A	0.22	98	21.56
pervious (400'x36')	Α	0.33	39	12.87
dirt; includes r/w	Α	1.93	72	138.96
Total Area (ac) =		4.24		285.19

Weighted CN = 67.2

# Post Development Hydrology

Basin 2

Total Area (ac) =

5.06

Soils =

Tavares-Urban land complex

# Weighted CN Calculation:

### **Hydrologic**

	riyarologic			
Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		0.99	98	97.02
Pervious	Α	0.11	39	4.29
Pond (Impervious)		0.57	98	56.15
Pond (Pervious)	Α	0.63	39	24.60
6th Street:				
Impervious (54')		2.48	98	243.04
Pervious	Α	0.28	39	10.92
Total Area (ac) =	mark of the	5.06		436.03

Weighted CN =

86.1

01/03/2001

# **BASIN 2 - TREATMENT 2-6**

1 in. over impervious, DCIA and Pond TOB =

5 yr. Critical duration pond elevation =

calculated HGL at low point =

Approximate stormsewer length pond to low point =

HGL slope =

Low point - HGL =

BASIN 2 - HYDRAU	LICS 2-6				
Basin No. Location	Basin 2 623+00 LT.				
Estimated Ground S Estimated depth to S Estimated Seasonal	Seasonal High Wat	er, ft =	79.5 3.50 76.0	ft. ft. ft.	
Pond site width= Pond site area= Pond TOB width = Pond TOB area= Pond TOB el. = Pond 100 yr. el. =	138 ft. 1.20 Ac. 78 ft. 0.57 Ac. 80.0 ft. 78.85 ft. E-M	Pond site Length= Pond TOB length =  Max from Supra		O ft.	
Weir elevation = Outfall TW elevation Length of pipe to out estimated pipe size =	fall =		90	3 ft. 6 ft. 0 ft. 0 in.	10.7 cfs
Estimated low road E	79.	5 ft.			

0.34 Ac.-ft

78.08 ft. from supra

ok

0.08% estimated

20 ft.

1.4 ft.

78.10 ft.

13 -23

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#### Pond 2-6 (26bas2)

\*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	4.24
CURVE NUMBER	=	67.2
RUNOFF COEFFICIENT	=	.422
TIME OF CONCENTRATION (min.)	=	30.0
RAINFALL INTENSITY (in/hr)	==	6.38
PEAK FLOW RATE (cfs)	=	11.43
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	5.06
CURVE NUMBER	=	86.1
RUNOFF COEFFICIENT	_	.735
RAINFALL ZONE NUMBER	==	6
TOTAL RAINFALL DEPTH (inches)	=	5.96

TIME	I/Ptotal	INFLOW	STAGE	TOTAL	PERCOLATION	CONNECTED
(hrs)	RATIO	(cfs)	(ft)	OUTFLOW	FLOW	OUTFLOW
.0 .2 .4 .6 .8 1.0 1.2 1.4 1.6 1.8 2.0	.000 .500 .750 1.000 1.250 .500 .300 .250 .200	.00 11.09 16.63 22.17 27.72 11.09 6.65 5.54 4.43 3.33	76.00 76.28 76.97 77.74 78.49 78.85 78.80 78.68 78.55 78.42 78.24	.00 .00 .00 2.68 7.60 10.58 10.14 9.12 8.07 7.07 5.81	.00 .00 .00 .00 .00 .00 .00	.00 .00 .00 2.68 7.60 10.58 10.14 9.12 8.07 7.07 5.81

#### OUTPUT SUMMARY

 PEAK FLOW (cfs)
 = 10.58

 PEAK STAGE (ft)
 = 78.85

 PEAK STORAGE (ac-ft)
 = 1.117

 TIME TO PEAK (hrs)
 = 1.00

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Pond 2-6 (26bas2)

### \*\*\*\* WEIR STRUCTURE \*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft)	=	1 3.3 1.5 77.03
WEIR LENGTH (ft)		1.30
TOP BANK ELEVATION (ft) POND AREA AT TOP BANK (acres) POND PERIMETER AT TOP BANK (ft) SIDE SLOPE OF POND DESIGN NORMAL WATER ELEVATION (ft) DISCHARGE ELEVATION (ft)	=======================================	80.00
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)	=	.340

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

			<del>_</del> _ <del>_</del> _ <del>_</del> _ <del>_</del>		
STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
76.00	.300	.000	.00	.00	.00
77.03	.365	.342	.00	.00	.00
77.53	.398	.533	.00	1.52	1.52
78.03	.431	.740	.00	4.29	4.29
78.53	.465	.964	.00	7.88	7.88
79.03	.500	1.205	.00	12.13	12.13
79.53	.536	1.464	.00	16.96	16.96

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

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Pond 2-6 (26bas2)

# OUTPUT SUMMARY

FREQUENCY	RESULTS			DURATIO	N	1
<u> </u>		1-HR	2-HR	4-HR	8-HR	24-HR
2-YR	Q-pre	1.85	2.73	3.62	4.60	6.19
	Q-post	.77	1.42	2.50	2.90	1.74
	E-max	77.28	77.50	77.71	77.78	77.57
5-YR	Q-pre	3.14	4.38	5.60	6.85	8.82
	Q-post	2.07	2.98	4.21	4.67	2.47
	E-max	77.63	77.79	78.02	78.08	77.70
10-YR	Q-pre	4.19	5.80	7.12	8.63	10.68
	Q-post	3.31	4.50	5.54	6.14	2.97
	E-max	77.85	78.06	78.20	78.29	77.79
25-YR	Q-pre	5.85	7.73	9.43	11.05	13.53
	Q-post	5.20	6.38	7.31	7.75	3.76
	E-max	78.16	78.32	78.45	78.51	77.93
50-YR	Q-pre	7.21	9.46	11.12	12.89	15.36
	Q-post	6.89	8.39	8.55	9.00	4.16
	E-max	78.39	78.59	78.61	78.66	78.01
100-YR	Q-pre	8.78	11.43	13.30	15.17	17.77
	Q-post	8.60	10.58	10.24	10.56	4.81
	E-max	78.61	78.85	78.81	78.85	78.10

CRITICAL DURATION : \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 11.43 Q-post (cfs) = 10.58 E-max (ft) = 78.85

# **BASIN 2 - HYDROLOGY 2-7**

Pre Development Hydrology

Basin 2

Approximate Stations 424+00 to 432+00 LT. US 618+00 to 638+00 6th Str

Total Area (ac) =

4.24

Soils = ·

Tavares-Urban land complex

# Weighted CN Calculation:

# Hydrologic

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (15')		0.28	98	27.44
pervious (15')	Α	0.28	39	10.92
Pond Site	Α	1.20	77	92.70
6th Street:				
impervious (400'x24'	) A	0.22	98	21.56
pervious (400'x36')	Α	0.33	39	12.87
dirt; includes r/w	Α	1.93	72	138.96
Total Area (ac) =		4.24		304.45

Weighted CN = 71.7

# Post Development Hydrology

Basin 2

Total Area (ac) =

5.06

Soils =

Tavares-Urban land complex

# Weighted CN Calculation:

# Hydrologic '

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		0.99	98	97.02
Pervious	Α	0.11	39	4.29
Pond (Impervious)		0.57	98	56.15
Pond (Pervious)	Α	0.63	39	24.60
6th Street:				
Impervious (54')		2.48	98	243.04
Pervious	Α	0.28	39	10.92
Total Area (ac) =		5.06		436.03

Weighted CN =

86.1

3-27

### **BASIN 2 - TREATMENT 2-7**

1 in. over impervious, DCIA and Pond TOB =

0.34 Ac.-ft

#### **BASIN 2 - HYDRAULICS 2-7**

Basin No. Basin 2 Location 623+00 RT.

Estimated Ground Surface Elevation at pond = 80.0 ft.
Estimated depth to Seasonal High Water, ft = 3.50 ft.
Estimated Seasonal High Water Elevation = 76.5 ft.

Pond site width= 138 ft. Pond site Length= 380 ft.

Pond site area= 1.20 Ac.

Pond TOB width = 78 ft. Pond TOB length = 320 ft.

Pond TOB area= 0.57 Ac. Pond TOB el. = 80.0 ft.

Pond 100 yr. el. = 79.02 ft. E-Max from Supra

Weir elevation = 77.45 ft.

Outfall TW elevation (5 yr.)= 78.6 ft.

Length of pipe to outfall = 900 ft.

estimated pipe size = 30 in.

Estimated low road E/P in basin = 79.5 ft.

5 yr. Critical duration pond elevation = 78.29 ft. from supra HGL slope = 0.08% estimated

Approximate stormsewer length pond to low point = 0.08% estimate 20 ft.

calculated HGL at low point = 78.31 ft.

Low point - HGL = 1.2 ft.

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#### Pond 2-7 (27bas2)

### \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	4.24
CURVE NUMBER	=	71.7
RUNOFF COEFFICIENT		.492
TIME OF CONCENTRATION (min.)	=	30.0
RAINFALL INTENSITY (in/hr)	m	6.38
PEAK FLOW RATE (cfs)	=	13.31
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	5.06
CURVE NUMBER	=	86.1
RUNOFF COEFFICIENT	=	.735
RAINFALL ZONE NUMBER	===	6
TOTAL RAINFALL DEPTH (inches)		5.96

TIME (hrs)	I/Ptotal RATIO	INFLOW (cfs)	STAGE (ft)	TOTAL OUTFLOW	PERCOLATION FLOW	CONNECTED OUTFLOW
.0 .2 .4 .6 .8 1.0 1.2 1.4 1.6 1.8 2.0	.000 .500 .750 1.000 1.250 .500 .300 .250 .200 .150	.00 11.09 16.63 22.17 27.72 11.09 6.65 5.54 4.43 3.33	76.50 76.75 77.39 78.09 78.75 79.02 78.91 78.74 78.60 78.47 78.31	.00 .00 .00 3.57 9.92 13.04 11.63 9.85 8.29 6.87 5.40	.00 .00 .00 .00 .00 .00 .00	.00 .00 .00 3.57 9.92 13.04 11.63 9.85 8.29 6.87 5.40

#### OUTPUT SUMMARY

PEAK	FLOW (cfs)	=	13.04
PEAK	STAGE (ft)		79.02
PEAK	STORAGE (ac-ft)		1.044
	TO PEAK (hrs)		1 00

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Pond 2-7 (27bas2)

#### \*\*\*\* WEIR STRUCTURE \*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft) WEIR LENGTH (ft)	=	3.3 1.5 77.45
TOP BANK ELEVATION (ft) .		2.00
<b>***</b>		.570
POND PERIMETER AT TOP BANK (ft)		
SIDE SLOPE OF POND		4.0
DESIGN NORMAL WATER ELEVATION (ft)	==	76.50
DISCHARGE ELEVATION (ft)	=	77.45
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)	=	

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
•					<del></del>
76.50	.331	.000	.00	.00	.00
77.45	.392	.343	.00	.00	.00
77.95	426	.548	.00	2.33	2.33
78.45	.460	.769	.00	6.60	6.60
78.95	.494	1.008	.00	12.12	12.12
79.45	.530	1.264	.00	18.67	18.67
79.95	.566	1.538	.00	26.09	26.09

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

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Pond 2-7 (27bas2)

# OUTPUT SUMMARY

FREQUENCY	RESULTS			DURATIO	ИC	1
	<u> </u>	1-HR	2-HR			24-HR
2-YR	Q-pre	2.74	3.72	4.66	5.67	7.24
	Q-post	1.04	1.76	2.87	3.28	1.77
	E-max	77.67	77.83	78.01	78.06	77.83
5-YR	Q-pre Q-post E-max	4.30 2.57 77.98	5.62 3.65 78.10	4.74	8.10 5.24 78.29	9.99 2.48 77.97
10-YR	Q-pre	5.53	7.20	8.52	9.99	11.92
	Q-post	4.24	5.52	6.04	6.57	3.05
	E-max	78.17	78.32	78.38	78.45	78.03
25-YR	Q-pre	7.43	9.34	11.00	12.54	14.84
	Q-post	6.56	7.95	8.13	8.29	3.90
	E-max	78.45	78.57	78.59	78.60	78.13
50-YR	Q-pre	8.96	11.19	12.80	14.47	16.72
	Q-post	8.74	10.49	9.70	9.50	4.31
	E-max	78.64	78.80	78.73	78.71	78.18
100-YR	Q-pre	10.71	13.31	15.09	16.83	19.18
	Q-post	10.80	13.04	11.65	10.99	4.97
	E-max	78.83	79.02	78.91	78.85	78.26

CRITICAL DURATION : \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 13.31 Q-post (cfs) = 13.04 E-max (ft) = 79.02

# **BASIN 2 - HYDROLOGY 2-8A**

Pre Development Hydrology

Basin 2

Approximate Stations 424+00 to 432+00 LT. US 301 618+00 to 638+00 6th Street

Total Area (ac) =

5.40

Soils =

Tavares-Urban land complex

# Weighted CN Calculation:

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Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (15')		0.28	98	27.44
pervious (15')	Α	0.28	39	10.92
Pond Site	Α	2.36	61	143.68
6th Street:				
impervious (400'x24'	) A	0.22	98	21.56
pervious (400'x36')	Α	0.33	39	12.87
dirt; includes r/w	Α	1.93	72	138.96
Total Area (ac) =		5.40		355.43

Weighted CN = 65.9

# Post Development Hydrology

Basin 2

Total Area (ac) =

6.22

Soils =

Tavares-Urban land complex

# Weighted CN Calculation:

# Hydrologic

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		0.99	98	97.02
Pervious	Α	0.11	39	4.29
Pond (Impervious)		1.54	98	151.18
Pond (Pervious)	Α	0.81	39	31.69
6th Street:				
Impervious (54')		2.48	98	243.04
Pervious	Α	0.28	39	10.92
Total Area (ac) =		6.00		500 45
rotal Alea (ac) =		6.22		538.15
RASIN 2 TREATMENT 2 04		Weighted C	N = .	86.6

**BASIN 2 - TREATMENT 2-8A** 

B-32

1 in. over impervious, DCIA and Pond TOB =

0.42 Ac.-ft

### **BASIN 2 - HYDRAULICS 2-8A**

Basin No.

Basin 2

Location

627+00 LT.

Estimated Ground Surface Elevation at pond =

81.2 ft.

Estimated depth to Seasonal High Water, ft =

3.50 ft. to 6.0 ft.

Estimated Seasonal High Water Elevation =

77.7 ft.

Pond site width=

270 ft.

Pond site Length=

380 ft.

Pond site area= Pond TOB width = 2.36 Ac.

210 ft.

Pond TOB length =

320 ft.

Pond TOB area=

1.54 Ac.

Pond TOB el. =

81.2 ft.

Pond 100 yr. el. =

78.82 ft. E-Max from Supra

Weir elevation =

78.06 ft.

Outfall TW elevation (5 yr.)= Length of pipe to outfall =

78.6 ft. 700 ft.

estimated pipe size =

24 in.

Estimated low road E/P in basin =

79.5 ft.

5 yr. Critical duration pond elevation =

78.5 ft. from supra

HGL slope =

0.08% estimated 200 ft.

Approximate stormsewer length pond to low point = calculated HGL at low point =

200 11

78.62 ft.

Low point - HGL =

0.9 ft.

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### Pond 2-8A (28Abas2)

# \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	5.40
CURVE NUMBER	=	65.9
RUNOFF COEFFICIENT	=	.403
TIME OF CONCENTRATION (min.)	=	30.0
RAINFALL INTENSITY (in/hr)	=	6.38
PEAK FLOW RATE (cfs)	=	13.88
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	6.22
CURVE NUMBER	=	86.6
RUNOFF COEFFICIENT	==	.744
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	=	5.96

TIME (hrs)	I/Ptotal RATIO	INFLOW (cfs)	STAGE (ft)	TOTAL OUTFLOW	PERCOLATION FLOW	CONNECTED OUTFLOW
.0 .2 .4 .6 .8 1.0 1.2 1.4 1.6	.000 .500 .750 1.000 1.250 .500 .300 .250 .200	.00 13.80 20.69 27.59 34.49 13.80 8.28 6.90 5.52 4.14	77.70 77.80 78.04 78.34 78.66 78.82 78.79 78.73 78.68 78.62	.00 .00 .00 3.88 9.55 13.67 12.93 11.42 9.95 8.50	.00 .00 .00 .00 .00 .00 .00	.00 .00 .00 3.88 9.55 13.67 12.93 11.42 9.95 8.50
2.0	.000	.00	78.55	6.81	.00	6.81

#### OUTPUT SUMMARY

PEAK FLOW (cfs)

= 13.67

 PEAK STAGE (ft)
 = 78.82

 PEAK STORAGE (ac-ft)
 = 1.375

 TIME TO PEAK (hrs)
 = 1.00

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Pond 2-8A (28Abas2)

#### \*\*\*\* WEIR STRUCTURE \*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft) WEIR LENGTH (ft)	= 3.3 = 1.5 = 78.06 = 6.00
TOP BANK ELEVATION (ft) .  POND AREA AT TOP BANK (acres)  POND PERIMETER AT TOP BANK (ft)  SIDE SLOPE OF POND  DESIGN NORMAL WATER ELEVATION (ft)  DISCHARGE ELEVATION (ft)	= 81.00 = 1.540 =1300.0 = 4.0 = 77.70 = 78.06
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)	= .420 = .00

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

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)

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

Pond 2-8A (28Abas2)

# OUTPUT SUMMARY

FREQUENCY	RESULTS					1
, , , , , , , , , , , , , , , , , , , ,	 	1-HR	2-HR	4-HR	8-HR	24-HR
2-YR	Q-pre	2.07	3.15	4.25	5.48	7.51
	Q-post E-max	1.39	2.25	3.39	3.78	2.20
	E-Max	78.16	78.22	78.30	78.33	78.22
5-YR	Q-pre	3.61	5.15	6.70	8.28	10.80
	Q-post E-max	3.18	4.08	5.26 78.44	5.65 78.46	3.04
	== max			70.44	70.40	70.20
10-YR	Q-pre	4.89	6.90	8.57	10.50	13.15
	Q-post E-max	4.49	5.69 78.47	6.65 78.53	7.29	3.65 78.32
· · · · · · · · · · · · · · · · · · ·					,0.5/1	
25-YR	Q-pre	6.91	9.29	11.45	13.53	16.75
	Q-post E-max	6.41 78.52	7.78	9.08 78.64	9.83	4.60 78.39
	,					
50-YR	Q-pre Q-post	8.58	11.43	13.56 10.71	15.84 11.46	19.05
***************************************	E-max	78.62	78.71	78.70	78.73	5.09 78.42
1 400 75						
100-YR	Q-pre Q-post	10.51	13.88	16.29 13.09	18.72 13.30	5.85
	E-max	78.72	78.82	78.80	78.81	78.48
		-	•	•	•	

CRITICAL DURATION : \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 13.88 Q-post (cfs) = 13.67 E-max (ft) = 78.82

### BASIN 3 - HYDROLOGY 2-11 Pond 2-11 to work with Pond 2-14

Pre Development Hydrology

Basin 3

Approximate Stations

432+00 to 450+00 LT US 301

447+00 to 450+00 RT US 301

638+00 to 647+00 6th Street

Total Area (ac) =

4.09

Soils =

Tavares-Urban land complex

#### Weighted CN Calculation:

Hvd	rolo	aic
		9.0

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (25'x180	O')	1.03	98	100.94
impervious (25'x300'	)	0.17	39	6.63
pervious	Α	0.46	39	17.94
pond site	Α	1.19	61	72.82
6th Street:				
impervious (24')	Α	0.50	98	49
pervious	Α	0.74	39	28.86
Total Area (ac) =		4.09		276.19

Weighted CN = 67.5

# Post Development Hydrology

Basin 3

Approximate Stations

432+00 to 450+00 LT US 301 638+00 to 647+00 6th Street

Total Area (ac) =

4.91

Soils =

Tavares-Urban land complex

#### Weighted CN Calculation:

#### Hydrologic

	riyarologic			
Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		2.23	98	218.54
Pervious	Α	0.25	39	9.75
Pond (Impervious)		0.55	98	53.54454
Pond (Pervious)	Α	0.65	39	25.24793
6th Street:				
Impervious (54')		1.11	98	108.78
Pervious	Α	0.13	39	5.07
Total Area (ac) =		4.91		420.93
				,,
		Weighted C	N =	85.7
		-		

#### **BASIN 3 - TREATMENT 2-11**

1 in. over impervious, DCIA and Pond TOB =

0.32 Ac.-ft

#### **BASIN 3 - HYDRAULICS 2-11**

Basin No.

Basin 3

Location 645+00 RT.

Estimated Ground Surface Elevation at pond = 84.0 ft.

Estimated depth to Seasonal High Water, ft = 3.50 ft. to 6.0

Estimated Seasonal High Water Elevation = 80.5 ft.

Pond site width= 130 ft. Pond site Length= 400 ft.

Pond site area = 1.19 Ac.

Pond TOB width = 70 ft. Pond TOB length = 340 ft.

Pond TOB area = 0.55 Ac. Pond TOB el. = 84.0 ft.

Pond 100 yr. el. = 82.73 ft. E-Max from Supra

Weir elevation = 81.26 ft.

Outfall TW elevation (5 yr.)= 80.7 ft.
Length of pipe to outfall = 900 ft.

estimated pipe size = 30 in. 18 cfs

Estimated low road E/P in basin = 83.2 ft.

5 yr. Critical duration pond elevation = 82.06 ft. from supra

HGL slope = 0.08% estimated

Approximate stormsewer length pond to low point = 20 ft. calculated HGL at low point = 82.08 ft.

Low point - HGL = 1.1 ft. ok

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#### Pond -2-11 (211bas3)

# \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	4.09
CURVE NUMBER	=	67.5
RUNOFF COEFFICIENT	=	.427
TIME OF CONCENTRATION (min.)	=	20.0
RAINFALL INTENSITY (in/hr)	=	7.60
PEAK FLOW RATE (cfs)	=	13.27
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	4.91
CURVE NUMBER	===	85.7
RUNOFF COEFFICIENT		.728
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	=	5.96

TIME (hrs)	I/Ptotal RATIO	INFLOW (cfs)	STAGE (ft)	TOTAL OUTFLOW	PERCOLATION FLOW	CONNECTED OUTFLOW
.0 .2 .4 .6 .8 1.0 1.2 1.4 1.6	.000 .500 .750 1.000 1.250 .500 .300 .250 .200	.00 10.65 15.98 21.31 26.63 10.65 6.39 5.33 4.26 3.20	80.50 80.71 81.24 81.86 82.46 82.73 82.65 82.52 82.40 82.29	.00 .00 .00 3.01 8.60 11.58 10.67 9.24 7.92 6.67	.00 .00 .00 .00 .00 .00 .00	.00 .00 .00 3.01 8.60 11.58 10.67 9.24 7.92 6.67
2.0	.000	.00	82.14	5.38	.00	5.38

#### OUTPUT SUMMARY

 PEAK FLOW (cfs)
 =
 11.58

 PEAK STAGE (ft)
 =
 82.73

 PEAK STORAGE (ac-ft)
 =
 1.033

 TIME TO PEAK (hrs)
 =
 1.00

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Pond 2-11(211bas3)

### \*\*\*\*\* WEIR STRUCTURE \*\*\*\*

NUMBER OF WEIRS	***	1
WEIR COEFFICIENT	==	3.3
EXPONENTIAL CONSTANT	==	1.5
WEIR ELEVATION (ft)	==	81.28
WEIR LENGTH (ft)	==	2.00
TOP BANK ELEVATION (ft)	=	85.00
POND AREA AT TOP BANK (acres)		
POND PERIMETER AT TOP BANK (ft)	=	820.0
SIDE SLOPE OF POND	=	4.0
DESIGN NORMAL WATER ELEVATION (ft)	==	80.50
DISCHARGE ELEVATION (ft)	=	81.28
TREATMENT VOLUME (ac-ft)		.320
PERCOLATION RATE (in/hr)		00

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

			<b> </b>		
STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
80.50	.391	.000	.00	.00	.00
81.28	.440	.324	.00	.00	.00
81.78	.473	.552	.00	2.33	2.33
82.28	.506	.797	.00	6.60	6.60
82.78	.540	1.059	.00	12.12	12.12
<b>.83.28</b>	.575	1.337	.00	18.67	18.67
83.78	.610	1.634	.00	26.09	26.09
<b>84.</b> 28	.647	1.948	.00	34.29	34.29
84.78	.684	2.280	.00	43.22	43.22

Pond 2-11(211bas3)

# OUTPUT SUMMARY

FREQUENCY	RESULTS			DURATIO	N	1
	 	1-HR	2-HR	4-HR	8-HR	24-HR
2-YR	Q-pre	2.27	3.34	4.40	5.58	7.48
	Q-post	.91	1.59	2.48	2.91	1.68
	E-max	81.47	81.62	81.80	81.85	81.64
5-YR	Q-pre	3.76	5.22	6.66	8.12	10.42
- Trickers	Q-post	2.19	3.16	4.35	4.86	2.33
	E-max	81.75	81.88	82.02	82.08	81.78
10-YR	Q-pre	5.01	6.90	8.45	10.22	12.62
	Q-post	3.58	4.85	5.62	6.16	2.88
1	E-max	81.93	82.08	82.17	82.23	81.84
25-YR	Q-pre	6.96	9.17	11.15	13.04	15.93
	Q-post	5.70	6.87	7.32	7.78	3.70
	E-max	82.17	82.30	82.35	82.39	81.94
50-YR	Q-pre	8.53	11.14	13.07	15.13	17.98
	Q-post	7.55	9.25	8.80	9.04	4.11
	E-max	82.37	82.52	82.48	82.50	81.99
100-YR	Q-pre	10.23	13.27	15.41	17.56	20.53
	Q-post	9.49	11.58	10.73	10.49	4.73
	Ê-max	82.54	82.73	82.65	82.63	82.06
		•	•	1	,	•

CRITICAL DURATION : \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 13.27 Q-post (cfs) = 11.58 E-max (ft) = 82.73

# **BASIN 3 - HYDROLOGY 2-14**

Pre Development Hydrology

Basin 3

Approximate Stations 450+00 to 460+00 US 301 647+00 to 659+00 6th Street

Total Area (ac) =

4.02

Soils =

Tavares-Urban land complex

# Weighted CN Calculation:

HV	arc	oloc	211
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Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (32'x1000')		0.73	98	71.54
pervious	Α	0.64	49	31.36
pond site	Α	1.00	61	61.00
6th Street:				
impervious (1200'x24')	Α	0.66	98	64.68
pervious	Α	0.99	39	38.61
Total Area (ac) =		4.02		267.19

Weighted CN = 66.5

Post Development Hydrology

Basin 3

Approximate Stations 450+00 to 460+00 US 301 647+00 to 659+00 6th Street

Total Area (ac) =

4.02

Soils =

Tavares-Urban land complex

# Weighted CN Calculation:

# **Hydrologic**

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		1.24	98	121.52
Pervious .	Α	0.13	49	6.37
Pond (Impervious)		0.66	98	64.34
Pond (Pervious)	Α	0.34	39	13.39
6th Street:				
Impervious (54')		1.49	98	146.02
Pervious	Α	0.16	39	6.24
Total Area (ac) =		4.02		357.89

Weighted CN = 89.0

B-43

0.28 Ac.-ft

260 ft.

## **BASIN 3 - HYDRAULICS 2-14**

Basin No.

Basin 3

Location

650+00 RT.

Estimated Ground Surface Elevation at pond =	85.0	ft.
Estimated depth to Seasonal High Water, ft =	3.50	ft.
Estimated Seasonal High Water Elevation =	81.5	ft.

Pond site width= 150 ft. Pond site Length= 300 ft.
Pond site area= 1.03 Ac.

Pond TOB width = 110 ft. Pond TOB length = 0.66 Ac.

Pond TOB el. = 85.0 ft.

Pond 100 yr. el. = 83.4 ft. E-Max from Supra

Weir elevation = 82.12 ft.

Outfall TW elevation (5 yr.)= 80.7 ft.

Length of pipe to outfall = 1000 ft.

estimated pipe size = 24 in.

Estimated low road E/P in basin = 84.0 ft.

5 yr. Critical duration pond elevation = 82.84 ft. from supra HGL slope = 0.08% estimated

Approximate stormsewer length pond to low point = 200 ft.

calculated HGL at low point = 83.00 ft.

Low point - HGL = 1.0 ft.

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#### Pond 2-14 (214Bas3)

## \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	4.02
CURVE NUMBER	=	66.5
RUNOFF COEFFICIENT	=	.412
TIME OF CONCENTRATION (min.)	=	30.0
RAINFALL INTENSITY (in/hr)	=	6.38
PEAK FLOW RATE (cfs)	=	10.57
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	==	4.02
CURVE NUMBER	=	89.0
RUNOFF COEFFICIENT	=	.788
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	-222	5.96

I/Ptotal INFLOW STAGE TOTAL PERCOLATION CONNECTED RATIO (cfs) (ft) OUTFLOW FLOW OUTFLOW TIME 
 .0
 .000
 .00
 81.50
 .00

 .2
 .500
 9.44
 81.67
 .00

 .4
 .750
 14.16
 82.10
 .00

 .6
 1.000
 18.88
 82.62
 2.33

 .8
 1.250
 23.60
 83.15
 6.90
 .00 .00 .00 .00 .00 2.33 23.60 83.15 9.44 83.39 .8 1.250 6.90 9.63 .500 .300 .250 1.0 9.63 1.2 5.66 83.34 9.04 .00 9.04 1.44.72 83.24 7.95 .00 7.95 

 3.78
 83.15
 6.90
 .00

 2.83
 83.05
 5.99
 .00

 .00
 82.92
 4.90
 .00

 1.6 .200 6.90 1.8 .150 5.99 2.0 .000 4.90

#### OUTPUT SUMMARY

. .

 PEAK FLOW (cfs)
 = 9.63

 PEAK STAGE (ft)
 = 83.39

 PEAK STORAGE (ac-ft)
 = .938

 TIME TO PEAK (hrs)
 = 1.00

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Pond 2-14 (214Bas3)

# OUTPUT SUMMARY

FREQUENCY	RESULTS	1-HR	2-HR	DURATIO 4-HR		24-HR
2-YR	Q-pre	1.64	2.46	3.29	4.21	5.72
	Q-post	1.12	1.59	2.25	2.51	1.48
	E-max	82.36	82.46	82.60	82.64	82.44
5-YR	Q-pre	2.82	3.98	5.14	6.31	8.19
	Q-post	2.18	2.86	3.83	4.18	2.02
	E-max	82.59	82.68	82.80	82.84	82.55
10-YR	Q-pre	3.79	5.30	6.55	7.99	9.95
	Q-post	3.31	4.26	4.92	5.32	2.44
	E-max	82.73	82.85	82.92	82.97	82.63
25-YR	Q-pre	5.33	7.11	8.71	10.26	12.64
	Q-post	5.07	5.82	6.32	6.57	3.13
	E-max	82.94	83.03	83.09	83.12	82.71
50-YR	Q-pre	6.60	8.72	10.30	11.99	14.36
	Q-post	6.46	7.62	7.34	7.64	3.46
	E-max	83.10	83.21	83.19	83.21	82.75
100-YR	Q-pre	8.05	10.57	12.35	14.14	16.64
	Q-post	8.06	9.63	8.90	8.95	3.99
	E-max	83.25	83.39	83.33	83.33	82.81

CRITICAL DURATION: \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 10.57 Q-post (cfs) = 9.63 E-max (ft) = 83.39

### **BASIN 3 - HYDROLOGY 2-15A**

· Pre Development Hydrology

Basin 3

Total Area (ac) = 6.92

Soils =

Tavares-Urban land complex

Approximate Stations

432+00 to 460+00 LT US 301 447+00 to 460+00 RT US 301

638+00 to 659+00 6th Street

Weighted CN Calculation:

Hydrologic

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (25'x28	300')	1.61	98	157.78
impervious (25'x13	300')	0.75	39	29.25
pervious	Α	0.46	39	17.94
pond site	Α	1.20	39	46.91
6th Street:				
impervious (24')	Α	1.16	98	113.68
pervious	Α	1.74	39	67.86
Total Area (ac) =		6.92		433.42

Weighted CN =

Post Development Hydrology

Basin 3

Approximate Stations 432+00 to 460+00 US 301 638+00 to 659+00 6th Street

62.6

Total Area (ac) =

7.95

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Hyd	rologic
Soil	Group

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		3.47	98	340.06
Pervious	Α	0.39	39	15.21
Pond (Impervious)		0.55	98	54.31
Pond (Pervious)	Α	0.65	39	25.30
6th Street:				
Impervious (54')	•	2.6	98	254.8
Pervious	Α	0.29	39	11.31
Total Area (ac) =		7.95		700.99
		Maria tanta a sa a a a a	18.1	00.4
anos		Weighted C	<i>i</i> N =	88.1

### **BASIN 3 - TREATMENT 2-15A**

1 in. over impervious, DCIA and Pond TOB =

0.55 Ac,-ft

### **BASIN 3 - HYDRAULICS 2-15A**

Basin No.

Basin 3

Location

627+00 LT.

Estimated Ground Surface Elevation at pond =		81.0	ft. to 84.0
Estimated depth to Seasonal High Water, ft =	•	3.50	ft. to 6.0
Estimated Seasonal High Water Elevation =		77.5	ft.

Pond site width=

Pond site area=

Pond site Length= 131 ft.

400 ft.

Pond TOB width =

1.20 Ac.

71 ft. Pond TOB length =

340 ft.

Pond TOB area=

0.55 Ac.

Pond TOB el. =

81.0 ft. (Berm to elevation 83.0 on the south end)

82.25 ft. E-Max from Supra Pond 100 yr. el. =

79 ft. Weir elevation = 80.7 ft. Outfall TW elevation (5 yr.)= Length of pipe to outfall = 400 ft.

18 cfs 30 in. estimated pipe size =

83.2 ft. Estimated low road E/P in basin =

80.82 ft. from supra 5 yr. Critical duration pond elevation = 0.08% estimated HGL slope =

700 ft. Approximate stormsewer length pond to low point = calculated HGL at low point = 81.38 ft.

1.8 ft. ok Low point - HGL =

### Pond 2-15A(215bas3)

## \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	6.92
CURVE NUMBER	=	62.6
RUNOFF COEFFICIENT	===	.355
TIME OF CONCENTRATION (min.)	<del></del>	20.0
RAINFALL INTENSITY (in/hr)	=	7.60
PEAK FLOW RATE (cfs)	===	18.66
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	7.95
CURVE NUMBER	==	88.1
RUNOFF COEFFICIENT	=	.772
RAINFALL ZONE NUMBER	==	6
TOTAL RAINFALL DEPTH (inches)	=	5.96

TIME (hrs)	I/Ptotal RATIO	INFLOW (cfs)	STAGE (ft)	TOTAL OUTFLOW	PERCOLATION FLOW	CONNECTED OUTFLOW
.0	.000	.00	79.00	.00	.00	.00
.2 .4	.500 .750	18.28 27.42	79.32 80.04	.63 3.53	.00 .00	.63 3.53
.6	1.000	36.56	80.87	8.45	.00	8.45
.8	1.250	45.70	81.77	14.58	.00	14.58
1.0	.500	18.28 10.97	82.25 82.16	17.85 17.24	.00	17.85 17.24
$\frac{1.2}{1.4}$	.300 .250	9.14	81.96	15.89	.00	15.89
1.6	.200	7.31	81.75	14.46	.00	14.46
1.8	.150	5.48	81.53	12.94	.00	12.94
2.0	.000	.00	81.25	11.03	.00	11.03

## OUTPUT SUMMARY

\_\_\_\_\_\_

PEAK FLOW (cfs) = 17.85
PEAK STAGE (ft) = 82.25
PEAK STORAGE (ac-ft) = 1.669
TIME TO PEAK (hrs) = 1.00

Pond 2-14 (214Bas3)

#### \*\*\*\*\* WEIR STRUCTURE \*\*\*\*

NUMBER OF WEIRS	=	1
WEIR COEFFICIENT	==	3.3
EXPONENTIAL CONSTANT	==	1.5
WEIR ELEVATION (ft)	=	82.12
WEIR LENGTH (ft)	=	2.00
TOP BANK ELEVATION (ft)	=	85.00
POND AREA AT TOP BANK (acres)	=	.660
POND PERIMETER AT TOP BANK (ft)	===	750.0
SIDE SLOPE OF POND		4.0
DESIGN NORMAL WATER ELEVATION (ft)	=	81.50
DISCHARGE ELEVATION (ft)	=	82.12
TREATMENT VOLUME (ac-ft)	=	.280
PERCOLATION RATE (in/hr)	=	.00

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
81.50	.437	.000	.00	.00	.00
82.12	.474	.282	.00	.00	.00
82.62	.504	.527	.00	2.33	2.33
83.12	.536	.787	.00	6.60	6.60
83.62	.568	1.063	.00	12.12	12.12
84.12	.601	1.355	.00	18.67	18.67
84.62	.634	1.664	.00	26.09	26.09

Pond 2-15A(215bas3)

#### \*\*\*\*\* WEIR STRUCTURE \*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft) WEIR LENGTH (ft)	===	1 3.3 1.5 79.00 1.00
TOP BANK ELEVATION (ft) POND AREA AT TOP BANK (acres) POND PERIMETER AT TOP BANK (ft) SIDE SLOPE OF POND DESIGN NORMAL WATER ELEVATION (ft) DISCHARGE ELEVATION (ft)	=======================================	81.00 .550 820.0 3.0 79.00 79.00
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)	== ==	.550 .00

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
79.00	.440	.000	.00	.00	.00
79.00	.440	.000	.00	.00	.00
79.20	.451	.089	.00	.30	.30
79.40	.462	.180	.00	.83	.83
79.60	.473	.274	.00	1.53	1.53
79.80	.483	.369	.00	2.36	2.36
80.00	.494	.467	.00	3.30	3.30
80.20	.505	.567	.00	4.34	4.34
80.40	.516	.669	.00	5.47	5.47
80.60	.528	.774	.00	6.68	6.68
80.80	.539	.880	.00	7.97	7.97
81.00	.550	.989	.00	9.33	9.33

11-15-2000

SUPRA-3 (VERSION 4.02)
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Pond 2-15A(215bas3)

## OUTPUT SUMMARY

FREQUENCY	RESULTS	1-HR	2-HR	DURATIO 4-HR	N 8-HR	24-HR
2-YR	Q-pre	2.28	3.81	5.43	7.29	10.45
	Q-post	5.06	5.40	5.63	5.79	2.86
	E-max	80.33	80.39	80.43	80.45	79.91
5-YR	Q-pre	4.25	6.47	8.77	11.18	15.14
	Q-post	7.41	7.89	7.98	8.13	3.96
	E-max	80.71	80.79	80.80	80.82	80.13
10-YR	Q-pre	5.98	8.94	11.47	14.47	18.69
	Q-post	9.27	10.14	9.73	10.09	4.75
	E-max	80.99	81.12	81.06	81.11	80.27
25-YR	Q-pre	8.74	12.31	15.63	18.91	24.10
	Q-post	11.90	12.72	12.25	12.36	6.00
	E-max	81.38	81.50	81.43	81.44	80.49
50-YR	Q-pre	11.04	15.34	18.64	22.26	27.44
	Q-post	14.04	15.24	14.01	14.14	6.63
	E-max	81.69	81.87	81.69	81.70	80.59
100-YR	Q-pre	13.57	18.66	22.37	26.20	31.66
	Q-post	16.19	17.85	16.32	16.33	7.63
	E-max	82.00	82.25	82.02	82.03	80.75

CRITICAL DURATION: \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 18.66 Q-post (cfs) = 17.85 E-max (ft) = 82.25

## BASIN 3 - HYDROLOGY 2-11 and 2-12

Pre Development Hydrology

Basin 3

7.65

Soils =

Total Area (ac) =

Tavares-Urban land complex

Approximate Stations

Approximate Stations

432+00 to 460+00 LT US 301

447+00 to 460+00 RT US 301 638+00 to 659+00 6th Street

Weighted CN Calculation:

Hydrologic

	119 010 910			
Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (25'x280	00')	1.61	98	157.78
impervious (25'x130	00')	0.75	39	29.25
pervious	Α	0.46	39	17.94
pond site	Α	1.93	39	75.21
6th Street:				
impervious (24')	Α	1.16	98	113.68
pervious	Α	1.74	39	67.86
		<del> </del>		
Total Area (ac) =		7.65		461.72

Weighted CN = 60.4

Post Development Hydrology

Basin 3

432+00 to 460+00 US 301 638+00 to 659+00 6th Street

Total Area (ac) =

8.68

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Hydrologic

	riyarologic			
Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		3.47	98	340.06
Pervious	Α	0.39	39	15.21
Pond (Impervious)		1.17	98	114.7383
Pond (Pervious)	Α	0.76	39	29.54545
6th Street:				
Impervious (54')		2.6	98	254.8
Pervious	Α	0.29	39	11.31
Total Area (ac) =		8.68		765.66
` '	,			
	<b></b>	Weighted C	:N =	88.2

## BASIN 3 - TREATMENT 2-11 and 2-12

1 in. over impervious, DCIA and Pond TOB =

0.60 Ac.-ft

## BASIN 3 - HYDRAULICS 2-11 and 2-12

Basin No.

Basin 3

Location

645+00 RT.

Estimated Ground Surface Elevation at pond =	83.0	ft. to 85.5
Estimated depth to Seasonal High Water, ft =	3.50	ft. to 6.0
Estimated Seasonal High Water Elevation =	79.5	ft.

Estimated Seasonal High Water Elevation = 79.5 II.

Pond site width= 210 ft. Pond site Length= 400 ft.

Pond site area= 1.93 Ac.

Pond TOB width = 150 ft. Pond TOB length = 340 ft.

Pond TOB area = 1.17 Ac. Pond TOB el. = 83.0 ft.

Pond 100 yr. el. = 82.08 ft. E-Max from Supra

Weir elevation = 80.2 ft.

Outfall TW elevation (5 yr.)= 80.7 ft.

Length of pipe to outfall = 900 ft.

estimated pipe size = 24 in. 19 cfs

Estimated low road E/P in basin = 83.2 ft.

5 yr. Critical duration pond elevation = 81.31 ft. from supra

HGL slope = 0.08% estimated

HGL slope = 0.08% esti
Approximate stormsewer length pond to low point = 20 ft.

calculated HGL at low point = 81.33 ft.

Low point - HGL = 1.9 ft. ok

Pond 2-11 and 2-12 (bas3com)

### \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	<u></u>	7.65
CURVE NUMBER	=	60.4
RUNOFF COEFFICIENT	=	.324
TIME OF CONCENTRATION (min.)	=	20.0
RAINFALL INTENSITY (in/hr)	===	7.60
PEAK FLOW RATE (cfs)	===	18.81
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	8.68
CURVE NUMBER	=	88.2
RUNOFF COEFFICIENT	=	.773
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	=	5.96

TIME I/Ptotal INFLOW STAGE TOTAL PERCOLATION CONNECTED (hrs) RATIO (cfs) (ft) OUTFLOW FLOW OUTFLOW 

 .0
 .000
 .00
 80.20
 .00
 .00

 .2
 .500
 20.00
 80.37
 .56
 .00

 .4
 .750
 30.01
 80.77
 3.14
 .00

 .6
 1.000
 40.01
 81.26
 7.93
 .00

 .8
 1.250
 50.01
 81.79
 14.62
 .00

 1.0
 .500
 20.00
 82.08
 18.68
 .00

 1.2
 .300
 12.00
 82.04
 18.13
 .00

 1.4
 .250
 10.00
 81.94
 16.70
 .00

 1.6
 .200
 8.00
 81.83
 15.19
 .00

 1.8
 .150
 6.00
 81.72
 13.62
 .00

 2.0
 .000
 .00
 81.57
 11.63
 .00

 \_\_\_\_ .00 .00 .56 3.14 .6 1.000 .8 1.250 7.93 14.62 1.0 .500 1.2 .300 1.4 .250 1.6 .200 18.68 18.13 16.70 15.19 1.8 .150 2.0 001 13.62 .00 11.63

### OUTPUT SUMMARY

 PEAK FLOW (cfs)
 =
 18.68

 PEAK STAGE (ft)
 =
 82.08

 PEAK STORAGE (ac-ft)
 =
 1.892

 TIME TO PEAK (hrs)
 =
 1.00

Pond 2-11 and 2-12 (bas3com)

#### \*\*\*\*\* WEIR STRUCTURE \*\*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft) WEIR LENGTH (ft)	=	1 3.3 1.5 80.20 2.20
TOP BANK ELEVATION (ft) POND AREA AT TOP BANK (acres) POND PERIMETER AT TOP BANK (ft) SIDE SLOPE OF POND DESIGN NORMAL WATER ELEVATION (ft) DISCHARGE ELEVATION (ft)	=======================================	83.00 1.170 980.0 4.0 80.20 80.20
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)		.600 .00

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
		·			
80.20 80.20 80.40 80.60 80.80 81.00 81.20 81.40 81.60 81.80	.930 .930 .946 .962 .979 .996 1.013 1.030 1.047 1.064	.000 .000 .188 .378 .573 .770 .971 1.175 1.383 1.594 1.809	.00 .00 .00 .00 .00 .00 .00	.00 .65 1.84 3.37 5.19 7.26 9.54 12.03 14.69 17.53	.00 .65 1.84 3.37 5.19 7.26 9.54 12.03 14.69
82.20 82.40 82.60 82.80	1.031 1.099 1.117 1.134 1.152	2.027 2.248 2.473 2.702	.00	20.53 23.69 26.99 30.44	20.53 23.69 26.99 30.44

11-15-2000

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Pond 2-11 and 2-12 (bas3com)

# OUTPUT SUMMARY

FREQUENCY	FREQUENCY   RESULTS   DURATION					
		1-HR	2-HR	4-HR	8-HR	24-HR
2-YR	Q-pre	1.90	3.43	5.11	7.08	10.51
	Q-post	4.72	5.19	5.74	5.93	3.05
	E-max	80.95	81.00	81.05	81.07	80.76
5-YR	Q-pre	3.81	6.11	8.55	11.15	15.53
	Q-post	7.03	7.64	8.26	8.46	4.26
	E-max	81.18	81.23	81.29	81.31	80.90
10-YR	Q-pre	5.53	8.64	11.37	14.65	19.35
	Q-post	8.91	9.89	10.15	10.62	5.11
	E-max	81.34	81.43	81.45	81.49	80.99
25-YR	Q-pre	8.31	12.12	15.74	19.37	25.21
	Q-post	11.70	12.72	12.96	13.19	6.48
	E-max	81.57	81.65	81.67	81.69	81.12
50-YR	Q-pre	10.67	15.31	18.94	22.96	28.82
	Q-post	14.08	15.59	14.94	15.21	7.17
	E-max	81.75	81.86	81.82	81.84	81.19
100-YR	Q-pre	13.28	18.81	22.93	27.23	33.44
	Q-post	16.55	18.68	17.58	17.73	8.27
	E-max	81.93	82.08	82.00	82.01	81.29

CRITICAL DURATION : \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 18.81 Q-post (cfs) = 18.68 E-max (ft) = 82.08

### **BASIN 4 - HYDROLOGY 2-17**

# Pre Development Hydrology

Basin 4

Approximate Stations 460+00 to 471+00 US 301 659+00 to 674+00 6th Street

Total Area (ac) =

4.55

Soils =

Tavares-Urban land complex

## Weighted CN Calculation:

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (30')		0.76	98	74.48
pervious	Α	0.76	39	29.64
pond site	Α	0.96	61	58.82
6th Street:		,		
impervious (24')	Α	0.83	98	81.34
pervious	Α	1.24	39	48.36
Total Area (ac) =		4.55		292.64
		Weighted CN =	64.3	

Post Development Hydrology

Basin 4

Approximate Stations 460+00 to 471+00 US 301 659+00 to 674+00 6th Street

Total Area (ac) =

4.55

Soils =

Tavares-Urban land complex

## Weighted CN Calculation:

Land Use	Hydrologic Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		1.36	98	133.28
Pervious	Α	0.16	39	6.24
Pond (Impervious)		0.44	98	43.20
Pond (Pervious)	Α	0.52	39	20.41
6th Street:				
Impervious (54')		1.86	98	182.28
Pervious	Α	0.21	39	8.19
Total Area (ac) =		4.55		393.60
		Weighted C	ON =	86.4

#### **BASIN 4 - TREATMENT 2-17**

1 in. over impervious, DCIA and Pond TOB = 0.31 Ac.-ft

### **BASIN 4 - HYDRAULICS 2-17**

Basin No.

Location 668+00 LT.

Basin 4

Estimated Ground Surface Elevation at pond = 87.0 ft.
Estimated depth to Seasonal High Water, ft = 3.50 ft.
Estimated Seasonal High Water Elevation = 83.5 ft.

Pond site width= 140 ft. Pond site Length= 300 ft.
Pond site area= 0.96 Ac.
Pond TOB width = 80 ft. Pond TOB length = 240 ft.

Pond TOB area= 0.44 Ac. Pond TOB el. = 87.0 ft.

Pond 100 yr. el. = 86.76 ft. E-Max from Supra

Weir elevation = 84.61 ft.
Outfall TW elevation (5 yr.)= 80.7 ft.
Length of pipe to outfall = 2000 ft.

estimated pipe size = 30 in. 13 cfs

Estimated low road E/P in basin = 88.0 ft.

5 yr. Critical duration pond elevation = 85.78 ft. from supra
HGL slope = 0.08% estimated

Approximate stormsewer length pond to low point = 200 ft. calculated HGL at low point = 85.94 ft.

Low point - HGL = 2.1 ft. ok

#### Pond 2-17(217bas4)

#### \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:	
DRAINAGE AREA (acres) =	4.55
CURVE NUMBER =	64.3
RUNOFF COEFFICIENT =	.379
TIME OF CONCENTRATION (min.) =	20.0
RAINFALL INTENSITY (in/hr) =	7.60
PEAK FLOW RATE (cfs) = 1	13.12
POST-DEVELOPMENT CONDITION:	
<pre>DRAINAGE AREA (acres) =</pre>	4.55
CURVE NUMBER =	86.4
RUNOFF COEFFICIENT =	.741
RAINFALL ZONE NUMBER =	6
TOTAL RAINFALL DEPTH (inches) =	5.96

TIME I/Ptotal INFLOW STAGE TOTAL PERCOLATION CONNECTED (hrs) RATIO (cfs) (ft) OUTFLOW FLOW OUTFLOW 

 .0
 .000
 .00
 84.61
 .00
 .00

 .2
 .500
 10.04
 84.86
 .54
 .00

 .4
 .750
 15.06
 85.39
 2.87
 .00

 .6
 1.000
 20.09
 85.98
 6.59
 .00

 .8
 1.250
 25.11
 86.55
 11.13
 .00

 1.0
 .500
 10.04
 86.76
 13.04
 .00

 1.2
 .300
 6.03
 86.60
 11.55
 .00

 1.4
 .250
 5.02
 86.39
 9.79
 .00

 1.6
 .200
 4.02
 86.20
 8.29
 .00

 .00 .54 2.87 6.59 11.13 .00 13.04 .00 11.55 9.79 8.29 .200 . 4.02 86.20 .150 3.01 86.03 .000 .00 85.82 8.29 .00 1.6 .00 6.96 6.96 5.50 5.50 .00

#### OUTPUT SUMMARY

PEAK	FLOW (cfs)	==	13.04
PEAK	STAGE (ft)	=	86.76
PEAK	STORAGE (ac-ft)	=	.788
TIME	TO PEAK (hrs)	=	1.00

Pond 2-17(217bas4)

# \*\*\*\* WEIR STRUCTURE \*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft) WEIR LENGTH (ft)	=	3.3 1.5 84.61 1.25
TOP BANK ELEVATION (ft) POND AREA AT TOP BANK (acres) POND PERIMETER AT TOP BANK (ft) SIDE SLOPE OF POND DESIGN NORMAL WATER ELEVATION (ft) DISCHARGE ELEVATION (ft)	= =	87.00 .440 640.0 4.0 84.61 84.61
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)	==	.310

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
84.61 84.61 84.81 85.01 85.21 85.41	.308 .308 .318 .329 .340 .350	.000 .000 .063 .127 .194 .263	.00 .00 .00 .00	.00 .00 .37 1.04 1.92 2.95	.00 .00 .37 1.04 1.92 2.95 4.12
85.61 85.81 86.01 86.21 86.41 86.61 86.81	.361 .372 .383 .394 .406 .417	.334 .408 .483 .561 .641 .723	.00 .00 .00 .00 .00	4.12 5.42 6.83 8.35 9.96 11.67 13.46	5.42 6.83 8.35 9.96 11.67 13.46

11-14-2000

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Pond 2-17(217bas4)

# OUTPUT SUMMARY

FREQUENCY	RESULTS	1-HR	2-HR	DURATION 4-HR		24-HR
2-YR	Q-pre	1.83	2.90	4.01	5.27	7.37
	Q-post	3.57	3.80	3.46	3.48	1.62
	E-max	85.52	85.56	85.50	85.50	85.14
5-YR	Q-pre	3.24	4.77	6.32	7.92	10.52
	Q-post	5.25	5.58	4.99	4.87	2.25
	E-max	85.78	85.83	85.74	85.73	85.27
10-YR	Q-pre	4.47	6.48	8.17	10.15	12.90
	Q-post	6.59	7.19	6.15	6.04	2.70
	E-max	85.98	86.06	85.91	85.90	85.36
25-YR	Q-pre	6.41	8.80	11.00	13.14	16.50
	Q-post	8.55	9.11	7.86	7.42	3.43
	E-max	86.24	86.30	86.15	86.09	85.49
50-YR	Q-pre	8.00	10.87	13.04	15.39	18.73
	Q-post	10.19	11.02	9.07	8.50	3.81
	E-max	86.44	86.53	86.30	86.23	85.56
100-YR	Q-pre Q-post E-max	9.75 11.87 86.63		10.68	9.85	4.40

CRITICAL DURATION : \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 13.12 Q-post (cfs) = 13.04 E-max (ft) = 86.76

# **BASIN 4 - HYDROLOGY 2-18**

Pre Development Hydrology

Basin 4

Approximate Stations 460+00 to 471+00 US 301 659+00 to 674+00 6th Street

Total Area (ac) =

4.55

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Land Use	Hydrologic Soil Group	Area (ac)	CN	Product
US 301:				
impervious (30')		0.76	98	74.48
pervious	Α	0.76	39	29.64
pond site	Α	0.96	61	58.82
6th Street:				
impervious (24')		0.83	98	81.34
pervious	Α _	1.24	39	48.36
Total Area (ac) =	=	4.55		292.64

Weighted CN = 64.3

Post Development Hydrology

Basin 4

Approximate Stations 460+00 to 471+00 US 301 659+00 to 674+00 6th Street

Total Area (ac) =

4.55

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Land Use	Hydrologic Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		1.36	98	133.28
Pervious	Α	0.16	39	6.24
Pond (Impervious)		0.44	98	43.20
Pond (Pervious)	Α	0.52	39	20.41
6th Street:				
Impervious (54!)		1.86	98	182.28
Pervious	Α	0.21	39	<u>8.19</u>
Total Area (ac) =		4.55		393.60
÷		Weighted CN =		86.4

## **BASIN 4 - TREATMENT 2-18**

calculated HGL at low point =

Low point - HGL =

1 in. over impervious, DCIA and Pond TOB = **BASIN 4 - HYDRAULICS 2-18** Basin No. Basin 4 689+00 LT. Location 87.0 ft. Estimated Ground Surface Elevation at pond = Estimated depth to Seasonal High Water, ft = 3.50 ft. 83.5 ft. Estimated Seasonal High Water Elevation = 300 ft. Pond site Length= 140 ft. Pond site width= 0.96 Ac. Pond site area= 240 ft. Pond TOB length = Pond TOB width = 80 ft. 0.44 Ac. Pond TOB area= 87.0 ft. Pond TOB el. = Pond 100 yr. el. = 86.76 ft. E-Max from Supra 84.61 ft. Weir elevation = 80.7 ft. Outfall TW elevation (5 yr.)= 2200 ft. Length of pipe to outfall = 30 in. 13 cfs estimated pipe size = 88.0 ft. Estimated low road E/P in basin = 85.78 ft. from supra 5 yr. Critical duration pond elevation = 0.08% estimated HGL slope = 20 ft. Approximate stormsewer length pond to low point = 85.80 ft.

0.31 Ac.-ft

2.2 ft.

ok

## Pond 2-18(218bas4)

# \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	4.55
CURVE NUMBER	==	64.3
RUNOFF COEFFICIENT	=	.379
TIME OF CONCENTRATION (min.)	=	20.0
RAINFALL INTENSITY (in/hr)	==	7,60
PEAK FLOW RATE (cfs)	=	13.12
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	4.55
CURVE NUMBER	=	86.4
RUNOFF COEFFICIENT	=	.741
RAINFALL ZONE NUMBER	<b>=</b> :	6
TOTAL RAINFALL DEPTH (inches)	==	5.96

TIME	I/Ptotal	INFLOW (cfs)	STAGE	TOTAL	PERCOLATION	CONNECTED
(hrs)	RATIO		(ft)	OUTFLOW	FLOW	OUTFLOW
.0 .2 .4 .6 .8 1.0 1.2 1.4 1.6 1.8 2.0	.000 .500 .750 1.000 1.250 .500 .300 .250 .200 .150	.00 10.04 15.06 20.09 25.11 10.04 6.03 5.02 4.02 3.01	84.61 84.86 85.39 85.98 86.55 86.76 86.60 86.39 86.20 86.03 85.82	.00 .54 2.87 6.59 11.13 13.04 11.55 9.79 8.29 6.96 5.50	.00 .00 .00 .00 .00 .00 .00	.00 .54 2.87 6.59 11.13 13.04 11.55 9.79 8.29 6.96 5.50

### OUTPUT SUMMARY

PEAK	FLOW (cfs)	=	13.04
	STAGE (ft)	===	86.76
	STORAGE (ac-ft)	=	.788
	TO PEAK (hrs)	=	1.00

Pond 2-18(218bas4)

## \*\*\*\* WEIR STRUCTURE \*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft) WEIR LENGTH (ft)	=	3.3 1.5 84.61 1.25
TOP BANK ELEVATION (ft) POND AREA AT TOP BANK (acres) POND PERIMETER AT TOP BANK (ft) SIDE SLOPE OF POND DESIGN NORMAL WATER ELEVATION (ft) DISCHARGE ELEVATION (ft)	=======================================	87.00 .440 640.0 4.0 84.61 84.61
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)	=	.310

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE	AREA	STORAGE (ac-ft)	PERCOLATION	CONNECTED	TOTAL
(ft)	(acres)		FLOW	OUTFLOW	OUTFLOW
84.61 84.61 84.81 85.01 85.21 85.41 85.61 85.81 86.21 86.41 86.61 86.81	.308 .308 .318 .329 .340 .350 .361 .372 .383 .394 .406 .417	.000 .000 .063 .127 .194 .263 .334 .408 .483 .561 .641 .723	.00 .00 .00 .00 .00 .00 .00 .00	.00 .00 .37 1.04 1.92 2.95 4.12 5.42 6.83 8.35 9.96 11.67 13.46	.00 .00 .37 1.04 1.92 2.95 4.12 5.42 6.83 8.35 9.96 11.67 13.46

11-14-2000

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Pond 2-18(218bas4)

# OUTPUT SUMMARY

FREQUENCY	RESULTS	1-HR	2-HR	OURATION 4-HR	N 8-HR	24-HR
2-YR	Q-pre	1.83	2.90	4.01	5.27	7.37
	Q-post	3.57	3.80	3.46	3.48	1.62
	E-max	85.52	85.56	85.50	85.50	85.14
5-YR	Q-pre	3.24	4.77	6.32	7.92	10.52
	Q-post	5.25	5.58	4.99	4.87	2.25
	E-max	85.78	85.83	85.74	85.73	85.27
10-YR	Q-pre	4.47	6.48	8.17	10.15	12.90
	Q-post	6.59	7.19	6.15	6.04	2.70
	E-max	85.98	86.06	85.91	85.90	85.36
25-YR	Q-pre	6.41	8.80	11.00	13.14	16.50
	Q-post	8.55	9.11	7.86	7.42	3.43
	E-max	86.24	86.30	86.15	86.09	85.49
50-YR	Q-pre	8.00	10.87	13.04	15.39	18.73
	Q-post	10.19	11.02	9.07	8.50	3.81
	E-max	86.44	86.53	86.30	86.23	85.56
100-YR	Q-pre	9.75	13.12	15.55	18.03	21.53
	Q-post	11.87	13.04	10.68	9.85	4.40
	E-max	86.63	86.76	86.49	86.40	85.65

CRITICAL DURATION : \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 13.12 Q-post (cfs) = 13.04 E-max (ft) = 86.76

#### **BASIN 5 - HYDROLOGY 2-19**

## Pre Development Hydrology

Basin 5

Approximate Stations 471+00 to 486+00 US 301 674+00 to 687+00 6th Street

Total Area (ac) =

4.82

Soils =

Tavares-Urban land complex

# Weighted CN Calculation:

Land Use	Hydrologic Soil Group	Area (ac)	CN	Product
US 301:				
impervious (30')		1.03	98	100.94
pervious	Α	1.04	39	40.56
pond site	Α	0.96	61	58.82
6th Street:				
impervious (24')	Α	0.72	98	70.56
pervious	Α	1.07	39	41.73
·				
Total Area (ac) =		4.82		312.61

Weighted CN = 64.8

Post Development Hydrology

Basin 5

Approximate Stations 471+00 to 486+00 US 301 674+00 to 687+00 6th Street

Total Area (ac) =

4.82

Soils =

Tavares-Urban land complex

## Weighted CN Calculation:

Land Use	Hydrologic Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		1.86	98	182.28
Pervious	Α	0.21	39	8.19
Pond (Impervious)		0.44	98	43.20
Pond (Pervious)	Α	0.52	39	20.41
6th Street:				
Impervious (54')		1.61	98	157.78
Pervious	Α	0.18	39	7.02
Total Area (aç) =		4.82		418.88
		Weighted C	:N =	86.8

#### **BASIN 5 - TREATMENT 2-19**

0.33 Ac.-ft 1 in. over impervious, DCIA and Pond TOB =

#### **BASIN 5 - HYDRAULICS 2-19**

Basin 5 Basin No. 680+00 LT. Location

84.0 ft. Estimated Ground Surface Elevation at pond = ft. 3.50 Estimated depth to Seasonal High Water, ft = Estimated Seasonal High Water Elevation = 80.5 ft.

300 ft. 140 ft. Pond site Length= Pond site width=

Pond site area= 0.96 Ac.

Pond TOB length = 240 ft. 80 ft. Pond TOB width =

0.44 Ac. Pond TOB area=

Pond TOB el. = 84.0 ft. Berm to 85.0 ft. 83.9 ft. E-Max from Supra Pond 100 yr. el. =

81.68 ft. Weir elevation = 80.7 ft. (SR54) Outfall TW elevation (5 yr.)=

3000 ft.

Length of pipe to outfall =

14 cfs 24 in. estimated pipe size =

84.3 ft. Estimated low road E/P in basin =

83.0 ft. from supra 5 yr. Critical duration pond elevation = 0.08% estimated

HGL slope = 400 ft.

Approximate stormsewer length pond to low point = 83.29 ft. calculated HGL at low point =

ok 1.0 ft. Low point - HGL =

Pond 2-19(219bas5)

2.0

#### \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	===	4.82
CURVE NUMBER	=	64.8
RUNOFF COEFFICIENT	=	.387
TIME OF CONCENTRATION (min.)	===	20.0
RAINFALL INTENSITY (in/hr)		7.60
PEAK FLOW RATE (cfs)	=	14.17
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)		4.82
CURVE NUMBER	=	86.8
RUNOFF COEFFICIENT	222	.748
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	=	5.96

TIME I/Ptotal INFLOW STAGE TOTAL PERCOLATION CONNECTED (hrs) RATIO (cfs) (ft) OUTFLOW FLOW OUTFLOW .0 .000 .00 81.68 .00 2 500 10.74 81.94 .58 ..00 .00 .500 .58 .00 10.74 81.94 . 2 16.11 82.51 21.48 83.11 3.10 .00 3.10 .750 . 4 .6 1.000 .8 1.250 .6 1.000 .00 7.09 7.09 11.94 13.97 12.38 10.49 11.94 26.86 83.71 .00 .500 .300 .250 .00 13.97 10.74 83.94 1.0 6.45 83.76 5.37 83.54 12.38 .00 1.2 .00 10.49 1.4 8.88 8.88 .00 .200 4.30 83.35 .150 1.6 .00 7.45 7.45 3.22 83.16 1.8

#### OUTPUT SUMMARY

82.95

.00

5.88

.00

5.88

PEAK	FLOW (cfs)	===	13.97
PEAK	STAGE (ft)	=	83.94
PEAK	STORAGE (ac-ft)	=	.841
TIME	TO PEAK (hrs)	==	1.00

Pond 2-19 (219bas5)

#### \*\*\*\*\* WEIR STRUCTURE \*\*\*\*\*

=	1
=	3.3
=	1.5
=	81.68
=	1.25
==	84.00
=	.440
=	640.0
===	4.0
=	81.68
	81.68
=	.330
=	.00

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
81.68	.312	.000	.00	.00	.00
81.68 81.88	.312 .322	.063	.00	.37	.37
82.08	.333	.129	.00	1.04	1.04
82.28	.343	.196	.00	1.92	1.92
82.48	.354	.266	.00	2.95	2.95
82.68	.365	.338	.00	4.12	4.12
82.88	.376	.412	.00	5.42	5.42
83.08	.387	.488	.00	6.83	6.83
83.28	398	.567	.00	8.35	8.35
83.48	.410	.648	.00	9.96	9.96
83.68	.421	.731	.00	11.67	11.67
83.88	.433	.816	.00	13.46	13.46

Pond 2-19(219bas5)

# OUTPUT SUMMARY

FREQUENCY	RESILTS	DURATION				
FREIQUERCE		1-HR	2-HR	4-HR	8-HR	24-HR
2-YR	Q-pre	2.04	3.20	4.39	5.73	7.96
	Q-post	3.91	4.13	3.74	3.74	1.73
	E-max	82.64	82.68	82.61	82.61	82.24
5-YR	Q-pre	3.58	5.21	6.87	8.57	11.32
	Q-post	5.72	6.04	5.37	5.22	2.40
	E-max	82.92	82.97	82.87	82.85	82.37
10-YR	Q-pre	4.91	7.06	8.85	10.95	13.85
	Q-post	7.15	7.76	6.60	6.46	2.88
	E-max	83.12	83.20	83.05	83.03	82.47
25-YR	Q-pre	7.00	9.55	11.88	14.15	17.68
	Q-post	9.25	9.80	8.42	7.93	3.66
	E-max	83.39	83.46	83.29	83.22	82.60
50-YR	Q-prė	8.72	11.76	14.06	16.54	20.05
	Q-post	10.99	11.83	9.70	9.08	4.05
	E-max	83.60	83.70	83.45	83.37	82.67
100-YR	Q-pre	10.59	14.17	16.73	19.35	23.03
	Q-post	12.78	13.97	11.41	10.51	4.69
	E-max	83.80	83.94	83.65	83.54	82.77

CRITICAL DURATION: \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 14.17 Q-post (cfs) = 13.97 E-max (ft) = 83.94

### **BASIN 5 - HYDROLOGY 2-20A**

Pre Development Hydrology

Basin 5

Approximate Stations 471+00 to 486+00 US 301 674+00 to 687+00 6th Street

Total Area (ac) =

4.82

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

٠
:

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (30')		1.03	98	100.94
pervious	Α	1.04	39	40.56
pond site	A	0.96	61	58.82
6th Street:				
impervious (24')	Α	0.72	98	70.56
pervious	Α	1.07	39	41.73
•				
Total Area (ac) =		4.82		312.61

Weighted CN = 64.8

Post Development Hydrology

Basin 5

Approximate Stations 471+00 to 486+00 US 301 674+00 to 687+00 6th Street

Total Area (ac) =

4.82

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

# Hydrologic

	Hyarologic			
Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		1.86	98	182.28
Pervious	Α	0.21	39	8.19
Pond (Impervious)		0.44	98	43.20
Pond (Pervious)	Α	0.52	39	20.41
6th Street:				
Impervious (54')		1.61	98	157.78
Pervious	Α	0.18	39	7.02
Total Area (ac) =		4.82		418.88
		Weighted CN =		86.8

#### **BASIN 5 - TREATMENT 2-20A**

1 in. over impervious, DCIA and Pond TOB = 0.33 Ac.-ft

#### **BASIN 5 - HYDRAULICS 2-20A**

Basin No. Basin 5 Location 679+00 LT.

Estimated Ground Surface Elevation at pond = 85.0 ft.
Estimated depth to Seasonal High Water, ft = 3.50 ft.
Estimated Seasonal High Water Elevation = 81.5 ft.

Pond site width= 140 ft. Pond site Length= 300 ft.

Pond site area= 0.96 Ac.

Pond TOB width = 80 ft. Pond TOB length = 240 ft.

Pond TOB area= 0.44 Ac. Pond TOB el. = 85.0 ft.

Pond 100 yr. el. = 84.94 ft. E-Max from Supra

Weir elevation = 82.68 ft.

Outfall TW elevation (5 yr.)= 80.7 ft. (SR54)

Length of pipe to outfall = 3300 ft.

estimated pipe size = 30 in. 14 cfs

Estimated low road E/P in basin = 84.3 ft.

5 yr. Critical duration pond elevation = 83.97 ft. from supra
HGL slope = 0.08% estimated

HGL slope = 0.08% estimate 
Approximate stormsewer length pand to low point = 20 ft.

Approximate stormsewer length pond to low point = 20 ft. calculated HGL at low point = 83.986 ft.

Low point - HGL = 0.3 ft. error

#### Pond 2-20A(220Abas5)

#### \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	==	4.82
CURVE NUMBER	=	64.8
RUNOFF COEFFICIENT	=	.387
TIME OF CONCENTRATION (min.)	=	20.0
RAINFALL INTENSITY (in/hr)	=	7.60
PEAK FLOW RATE (cfs)	===	14.17
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	4.82
CURVE NUMBER	m	86.8
RUNOFF COEFFICIENT	=	.748
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	=	5.96

TIME I/Ptotal INFLOW STAGE TOTAL PERCOLATION CONNECTED (hrs) RATIO (cfs) (ft) OUTFLOW FLOW OUTFLOW 

 .0
 .000
 .00
 82.68
 .00
 .00

 .2
 .500
 10.74
 82.94
 .58
 .00

 .4
 .750
 16.11
 83.51
 3.10
 .00

 .6
 1.000
 21.48
 84.11
 7.09
 .00

 .8
 1.250
 26.86
 84.71
 11.94
 .00

 1.0
 .500
 10.74
 84.94
 13.97
 .00

 1.2
 .300
 6.45
 84.76
 12.38
 .00

 1.4
 .250
 5.37
 84.54
 10.49
 .00

 1.6
 .200
 4.30
 84.35
 8.88
 .00

 1.8
 .150
 3.22
 84.16
 7.45
 .00

 2.0
 .000
 .000
 83.95
 5.88
 .00

 .58 3.10 7.09 11.94 13.97 
 1.4
 .250
 5.37
 84.54

 1.6
 .200
 4.30
 84.35

 1.8
 .150
 3.22
 84.16

 2.0
 .000
 .00
 83.95
 10.49 8.88 7.45 5.88 7.45 .00 5.88

#### OUTPUT SUMMARY

 PEAK FLOW (cfs)
 = 13.97

 PEAK STAGE (ft)
 = 84.94

 PEAK STORAGE (ac-ft)
 = .841

 TIME TO PEAK (hrs)
 = 1.00

Pond 2-20A(220Abas5)

#### \*\*\*\* WEIR STRUCTURE \*\*\*\*

NUMBER OF WEIRS	=	1
WEIR COEFFICIENT	==	3.3
EXPONENTIAL CONSTANT	===	1.5
WEIR ELEVATION (ft)	=	82.68
WEIR LENGTH (ft)	=	1.25
TOP BANK ELEVATION (ft)	===	85.00
POND AREA AT TOP BANK (acres)	=	.440
POND PERIMETER AT TOP BANK (ft)	=	640.0
SIDE SLOPE OF POND	==	4.0
DESIGN NORMAL WATER ELEVATION (ft)	=	82.68
DISCHARGE ELEVATION (ft)	=	82.68
HITTER TIMES TO TIME ( a.e. 54 )		.330
TREATMENT VOLUME (ac-ft)	=	
PERCOLATION RATE (in/hr)	=	.00

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
				<b></b>	
82.68 82.68	.312 .312	.000	.00	.00	.00
82.88	.322	.063	.00	.37	.37
83.08	.333	.129	.00	1.04	1.04
83.28	.343	.196	.00	1.92	1.92
83.48	.354	.266	.00	2.95	2.95
83.68	.365	.338	.00	4.12	4.12
83.88	.376	.412	.00	5.42	5.42
84.08	.387	.488	.00	6.83	6.83
84.28	.398	.567	.00	8.35	8.35
84.48	.410	.648	.00	9.96	9.96
84.68	.421	.731	.00	11.67	11.67
84.88	.433	.816	.00	13.46	13.46

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

#### **BASIN 5 - HYDROLOGY 2-20B**

Pre Development Hydrology

Basin 5

Approximate Stations 471+00 to 486+00 US 301 674+00 to 687+00 6th Street

Total Area (ac) =

4.82

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Land Use	Hydrologic Soil Group	Area (ac)	CN	Product
US 301:				
impervious (30')		1.03	98	100.94
pervious	Α	1.04	39	40.56
pond site	Α	0.96	61	58.82
6th Street:				
impervious (24')	Α	0.72	98	70.56
pervious	А	1.07	39	41.73
Total Area (ac) =		4.82		312.61

Weighted CN = 64.8

Post Development Hydrology

Basin 5

Approximate Stations 471+00 to 486+00 US 301 674+00 to 687+00 6th Street

Total Area (ac) =

4.82

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Land Use	Hydrologic Soil Group	Area (ac)	CN	Product
US 301:	·			
Impervious (54')		1.86	98	182.28
Pervious	Α	0.21	39	8.19
Pond (Impervious)		0.44	98	43.20
Pond (Pervious)	Α	0.52	39	20.41
6th Street:				
Impervious (54')		1.61	98	157.78
Pervious	Α	0.18	39	7.02
Total Area (ac) =		4.82		418.88
		Weighted C	N =	86.8

#### **BASIN 5 - TREATMENT 2-20B**

1 in. over impervious, DCIA and Pond TOB =

0.33 Ac.-ft

240 ft.

14 cfs

#### **BASIN 5 - HYDRAULICS 2-20B**

Basin No.

Basin 5

Location

679+00 RT.

Estimated Ground Surface Elevation at pond =	84.0	ft.
Estimated depth to Seasonal High Water, ft =	3.50	ft.
Estimated Seasonal High Water Elevation =	80.5	ft.

Pond site width=	140 ft.	Pond site Length=	300 ft.
Pond site area=	0.96 Ac.		

Pond TOB width = 80 ft. Pond TOB length = 0.44 Ac.

Pond TOB el. = 84.0 ft. Berm to 85.0 ft. Pond 100 yr. el. = 83.94 ft. E-Max from Supra

Weir elevation = 81.68 ft.
Outfall TW elevation (5 yr.)= 80.7 ft. (SR54)

Length of pipe to outfall = 3500 ft.

estimated pipe size = 36 in.

Estimated low road E/P in basin = 84.3 ft.

5 yr. Critical duration pond elevation = 82.97 ft. from supra
HGL slope = 0.08% estimated

Approximate stormsewer length pond to low point = 20 ft. calculated HGL at low point = 82.986 ft.

Low point - HGL = 1.3 ft. ok

#### Pond 2-20b(220Bbas5)

## \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:	
DRAINAGE AREA (acres) $= 4$ .	82
CURVE NUMBER = 64	8.3
RUNOFF COEFFICIENT = .3	87
TIME OF CONCENTRATION (min.) = 20	).0
RAINFALL INTENSITY $(in/hr) = 7$ .	60
PEAK FLOW RATE (cfs) $= 14$ .	17
POST-DEVELOPMENT CONDITION:	
DRAINAGE AREA (acres) $= 4$ .	. 82
CURVE NUMBER = 86	5.8
RUNOFF COEFFICIENT = .7	748
RAINFALL ZONE NUMBER =	6
TOTAL RAINFALL DEPTH (inches) = $5.$	.96

TIME (hrs)	I/Ptotal RATIO	INFLOW (cfs)	STAGE (ft)	TOTAL OUTFLOW	PERCOLATION FLOW	CONNECTED OUTFLOW
.0	.000	.00	81.68 81.94	.00	.00	.00
.4	.750	16.11	82.51	3.10	.00	3.10
.6	1.000	21.48	83.11	7.09	.00	7.09
.8	1.250	26.86	83.71	11.94	.00	11.94
1.0	.500	10.74	83.94	13.97	.00	13.97
1.2	.300	6.45	83.76	12.38	.00	12.38
1.4	.250	5.37	83.54	10.49	.00	10.49
1.6	.200	4.30	83.35	8.88	.00	8.88
1.8	.150	3.22	83.16	7.45	.00	7.45
2.0	.000	.00	82.95	5.88	.00	5.88

## OUTPUT SUMMARY

 PEAK FLOW (cfs)
 = 13.97

 PEAK STAGE (ft)
 = 83.94

 PEAK STORAGE (ac-ft)
 = .841

 TIME TO PEAK (hrs)
 = 1.00

Pond 2-20b(220Bbas5)

#### \*\*\*\* WEIR STRUCTURE \*\*\*\*

NUMBER OF WEIRS	===	1
WEIR COEFFICIENT	==	3.3
EXPONENTIAL CONSTANT	=	1.5
WEIR ELEVATION (ft)	==	81.68
WEIR LENGTH (ft)	=	1.25
TOP BANK ELEVATION (ft)	=	84.00
	=	.440
POND PERIMETER AT TOP BANK (ft)	=	640.0
SIDE SLOPE OF POND		4.0
DESIGN NORMAL WATER ELEVATION (ft)	=	81.68
DISCHARGE ELEVATION (ft)		81.68
TREATMENT VOLUME (ac-ft)	===	.330
PERCOLATION RATE (in/hr)	==	.00

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
				<b></b>	
81.68 81.88 82.08 82.28 82.48 82.68 82.88	.312 .312 .322 .333 .343 .354 .365	.000 .000 .063 .129 .196 .266 .338	.00 .00 .00 .00 .00 .00	.00 .00 .37 1.04 1.92 2.95 4.12 5.42	.00 .37 1.04 1.92 2.95 4.12 5.42
83.08 83.28 83.48 83.68 83.88	.387 .398 .410 .421 .433	.488 .567 .648 .731 .816	.00 .00 .00 .00	6.83 8.35 9.96 11.67 13.46	6.83 8.35 9.96 11.67 13.46

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

11-15-2000

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Pond 2-20b(220Bbas5)

# OUTPUT SUMMARY

FREQUENCY	RESULTS	1-HR	2-HR	DURATIO 4-HR	N 8-HR	24-HR
2-YR	Q-pre	2.04	3.20	4.39	5.73	7.96
	Q-post	3.91	4.13	3.74	3.74	1.73
	E-max	82.64	82.68	82.61	82.61	82.24
5-YR	Q-pre	3.58	5.21	6.87	8.57	11.32
	Q-post	5.72	6.04	5.37	5.22	2.40
	E-max	82.92	82.97	82.87	82.85	82.37
10-YR	Q-pre	4.91	7.06	8.85	10.95	13.85
	Q-post	7.15	7.76	6.60	6.46	2.88
	E-max	83.12	83.20	83.05	83.03	82.47
25-YR	Q-pre	7.00	9.55	11.88	14.15	17.68
	Q-post	9.25	9.80	8.42	7.93	3.66
	E-max	83.39	83.46	83.29	83.22	82.60
50-YR	Q-pre     Q-post     E-max	8.72 10.99 83.60	11.76 11.83 83.70	14.06 9.70 83.45	16.54 9.08 83.37	4.05
100-YR	Q-pre	10.59	14.17	16.73	19.35	23.03
	Q-post	12.78	13.97	11.41	10.51	4.69
	E-max	83.80	83.94	83.65	83.54	82.77

CRITICAL DURATION: \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 14.17 Q-post (cfs) = 13.97 E-max (ft) = 83.94

#### **BASIN 6 - HYDROLOGY 2-21**

Pre Development Hydrology

Basin 6

Approximate Stations 486+00 to 503+00 US 301 687+00 to 700+00 6th Street

Total Area (ac) =

5.09

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Land Use	Hydrologic Soil Group	Area (ac)	CN	Product
US 301:				
impervious (30')		1.17	98	114.66
pervious	Α	1.17	39	45.63
pond site	Α	0.96	39	37.60
6th Street:				
impervious (24')	Α	0.72	98	70.56
pervious	Α	1.07	39	41.73
Total Area (ac) =		5.09		310.18

Weighted CN = 60.9

Post Development Hydrology

Basin 6

Approximate Stations 486+00 to 503+00 US 301 687+00 to 700+00 6th Street

Total Area (ac) =

5.09

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Land Use	Hydrologic Soil Group	Area (ac)	CN	Product
US 301:	·			
Impervious (54')		2.11	98	206.78
Pervious	Α	0.23	39	8.97
Pond (Impervious)		0.44	98	43.20
Pond (Pervious)	Α	0.52	39	20.41
6th Street:				
Impervious (54')		1.61	98	157.78
Pervious	Α	0.18	39	7.02
Total Area (ac) =		5.09		444.16
		Weighted C	:N =	87.2

#### **BASIN 6 - TREATMENT 2-21**

1 in. over impervious, DCIA and Pond TOB =

0.35 Ac.-ft

## **BASIN 6 - HYDRAULICS 2-21**

Basin No.

Basin 6

Location

690+00 LT.

Estimated Ground Surface Elevation at pond =	85.0	ft.
Estimated depth to Seasonal High Water, ft =	6.00	ft.
Estimated Seasonal High Water Elevation =	79.0	ft.

Pond site width=	140 ft.	Pond site Length=	300 ft.
Pond site area=	0.96 Ac.		040 #
Pond TOB width =	80 ft.	Pond TOB length =	240 ft.
Pond TOB area=	0.44 Ac.		

Pond TOB area = 0.44 Ac. Pond TOB el. = 85.0 ft.

Pond 100 yr. el. = 83.11 ft. E-Max from Supra

Weir elevation = 80.35 ft.

Outfall TW elevation (5 yr.)= 80.7 ft.

Length of pipe to outfall = 3000 ft.

estimated pipe size = 36 in. 12.5 cfs

Estimated low road E/P in basin = 83.5 ft. raised LP 0.7 ft. 5 yr. Critical duration pond elevation = 81.92 ft. from supra 0.08% estimated

Approximate stormsewer length pond to low point = 600 ft. calculated HGL at low point = 82.4 ft.

Low point - HGL = 1.1 ft. ok

#### Pond 2-21(221bas6)

# \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	5.09
CURVE NUMBER	===	60.9
	=	.331
RUNOFF COEFFICIENT		
TIME OF CONCENTRATION (min.)	=	20.0
RAINFALL INTENSITY (in/hr)	=	7.60
PEAK FLOW RATE (cfs)	=	12.79
PRAK FLOW KAIL (CID)		
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	===	5.09
		87.2
CURVE NUMBER		755
RUNOFF COEFFICIENT	==	.755
RAINFALL ZONE NUMBER	22	6
TOTAL RAINFALL DEPTH (inches)	=	5.96
TOTAL KATMENDE DEETH (THORCA)	_	

TIME	I/Ptotal	INFLOW	STAGE	TOTAL	PERCOLATION	CONNECTED
(hrs)	RATIO	(cfs)	(ft)	OUTFLOW	FLOW	OUTFLOW
.0 .2 .4 .6 .8 1.0 1.2 1.4 1.6 1.8 2.0	.000 .500 .750 1.000 1.250 .500 .300 .250 .200	.00 11.45 17.18 22.91 28.63 11.45 6.87 5.73 4.58 3.44	80.35 80.65 81.30 82.02 82.76 83.11 83.01 82.83 82.65 82.47 82.23	.00 .45 2.45 5.73 9.87 12.05 11.43 10.33 9.23 8.13 6.81	.00 .00 .00 .00 .00 .00 .00	.00 .45 2.45 5.73 9.87 12.05 11.43 10.33 9.23 8.13 6.81

## OUTPUT SUMMARY

 PEAK FLOW (cfs)
 =
 12.05

 PEAK STAGE (ft)
 =
 83.11

 PEAK STORAGE (ac-ft)
 =
 1.015

 TIME TO PEAK (hrs)
 =
 1.00

Pond 2-21(221bas6)

#### \*\*\*\* WEIR STRUCTURE \*\*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft) WEIR LENGTH (ft)	===	3.3 1.5 80.35 .80
TOP BANK ELEVATION (ft) POND AREA AT TOP BANK (acres) POND PERIMETER AT TOP BANK (ft) SIDE SLOPE OF POND DESIGN NORMAL WATER ELEVATION (ft) DISCHARGE ELEVATION (ft)	=	83.00 .440 640.0 4.0 80.35 80.35
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)	=	.350

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
.295 .295	.000	.00	.00	.00
.305	.060	.00	.24	.24
.315	.122	.00	.67	.67
.326	.186	.00	1.23	1.23
.336	.252	.00	1.89	1.89
.347	.321	.00	2.64	2.64
.358	.391	.00	3.47	3.47
.369	.464	.00	4.37	4.37
.380	.539	.00	5.34	5.34
.391	.616	.00	6.38	6.38
.402	. 695	.00	7.47	7.47
	.777	.00	8.61	8.61
.425	.861	.00	9.82	9.82
437	.947	.00	11.07	11.07
	(acres)295 .295 .305 .315 .326 .336 .347 .358 .369 .380 .391 .402 .414 .425	(acres) (ac-ft)  .295 .000 .295 .000 .305 .060 .315 .122 .326 .186 .336 .252 .347 .321 .358 .391 .369 .464 .380 .539 .391 .616 .402 .695 .414 .777 .425 .861	(acres)     (ac-ft)     FLOW       .295     .000     .00       .295     .000     .00       .305     .060     .00       .315     .122     .00       .326     .186     .00       .336     .252     .00       .347     .321     .00       .358     .391     .00       .369     .464     .00       .380     .539     .00       .391     .616     .00       .402     .695     .00       .414     .777     .00       .425     .861     .00	ARTHY (acres)     (ac-ft)     FLOW     OUTFLOW       .295     .000     .00     .00       .305     .060     .00     .24       .315     .122     .00     .67       .326     .186     .00     1.23       .336     .252     .00     1.89       .347     .321     .00     2.64       .358     .391     .00     3.47       .369     .464     .00     4.37       .380     .539     .00     5.34       .391     .616     .00     6.38       .402     .695     .00     7.47       .414     .777     .00     8.61       .425     .861     .00     9.82

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

11-15-2000

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Pond 2-21(221bas6)

# OUTPUT SUMMARY

FREQUENCY	RESULTS	1-HR	2-HR	DURATIO 4-HR	<del>.</del> .	24-HR
2-YR	Q-pre	1.35	2.39	3.53	4.86	7.15
	Q-post	3.32	3.55	3.59	3.70	1.81
	E-max	81.51	81.57	81.58	81.60	81.12
5-YR	Q-pre Q-post E-max	2.66 4.86 81.85	4.22 5.20 81.92	5.86 5.10 81.90	7.60 5.20 81.92	10.51 2.51 81.31
10-YR	Q-pre	3.84	5.94	7.76	9.95	13.07
	Q-post	6.08	6.69	6.22	6.46	3.02
	E-max	82.09	82.21	82.12	82.17	81.44
25-YR	Q-pre	5.73	8.29	10.71	13.12	16.99
	Q-post	7.87	8.45	7.86	7.96	3.81
	E-max	82.42	82.52	82.42	82.44	81.63
50-YR	Q-pre Q-post E-max	7.33 9.35 82.67	10.43 10.21 82.81		15.53 9.14 82.64	19.41 4.22 81.72
100-YR	Q-pre	9.09	12.79	15.53	18.38	22.49
	Q-post	10.86	12.05	10.67	10.60	4.86
	E-max	82.92	83.11	82.89	82.88	81.85

CRITICAL DURATION: \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 12.79 Q-post (cfs) = 12.05 E-max (ft) = 83.11

#### **BASIN 6 - HYDROLOGY 2-22**

Pre Development Hydrology

Basin 6

Approximate Stations 486+00 to 503+00 US 301 687+00 to 700+00 6th Street

Total Area (ac) =

5.09

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Hydr	olo	aic
,	•.•:	J

Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
impervious (30')		1.17	98	114.66
pervious	Α	1.17	39	45.63
pond site	Α	0.96	39	37.60
6th Street:				
impervious (24')	Α	0.72	98	70.56
pervious	Α	1.07	39	41.73
•				
Total Area (ac) =		5.09		310.18
()				

Weighted CN = 60.9

Post Development Hydrology

Basin 6

Approximate Stations 486+00 to 503+00 US 301 687+00 to 700+00 6th Street

Total Area (ac) =

5.09

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

				•
ы	VIC	ra	oa	10
			-	10

	i iyai ologio			
Land Use	Soil Group	Area (ac)	CN	Product
US 301:				
Impervious (54')		2.11	98	206.78
Pervious	Α	0.23	39	8.97
Pond (Impervious)		0.44	98	43.20
Pond (Pervious)	Α	0.52	39	20.41
6th Street:				
Impervious (54')		1.61	98	157.78
Pervious	Α	0.18	39	7.02
Total Area (ac) =		5.09		444.16
		Weighted C	:N =	87.2

#### **BASIN 6 - TREATMENT 2-22**

1 in. over impervious, DCIA and Pond TOB = 0.35 Ac.-ft

#### **BASIN 6 - HYDRAULICS 2-22**

Basin No. Basin 6 Location 690+00 LT.

Estimated Ground Surface Elevation at pond = 85.0 ft.
Estimated depth to Seasonal High Water, ft = 6.00 ft.
Estimated Seasonal High Water Elevation = 79.0 ft.

Pond site width= 140 ft. Pond site Length= 300 ft.

Pond site area= 0.96 Ac.

Pond TOB width = 80 ft. Pond TOB length = 240 ft.

Pond TOB area= 0.44 Ac. Pond TOB el. = 85.0 ft.

Pond 100 yr. el. = 83.11 ft. E-Max from Supra

Weir elevation = 80.35 ft.

Outfall TW elevation (5 yr.)= 80.7 ft.

Length of pipe to outfall = 3000 ft.

estimated pipe size = 99 in. 99 cfs

Estimated low road E/P in basin = 83.5 ft. raised LP 0.7 ft.

5 yr. Critical duration pond elevation = 81.92 ft. from supra 0.08% estimated

HGL slope = 0.08% estimate stormsewer length pond to low point = 400 ft.

calculated HGL at low point = 82.24 ft.

Low point - HGL = 1.3 ft. ok

## Pond 2-22(222bas6)

# \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	5.09
CURVE NUMBER	=	60.9
RUNOFF COEFFICIENT	=	.331
TIME OF CONCENTRATION (min.)	==	20.0
RAINFALL INTENSITY (in/hr)	=	7.60
PEAK FLOW RATE (cfs)	==	12.79
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	5.09
CURVE NUMBER	=	87.2
RUNOFF COEFFICIENT	=	.755
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	==	5.96

TIME (hrs)	I/Ptotal RATIO	INFLOW (cfs)	STAGE (ft)	TOTAL OUTFLOW	PERCOLATION FLOW	CONNECTED OUTFLOW
.0 .2 .4 .6 .8 1.0 1.2 1.4 1.6 1.8 2.0	.000 .500 .750 1.000 1.250 .500 .300 .250 .200 .150	.00 11.45 17.18 22.91 28.63 11.45 6.87 5.73 4.58 3.44	80.35 80.65 81.30 82.02 82.76 83.11 83.01 82.83 82.65 82.47 82.23	.00 .45 2.45 5.73 9.87 12.05 11.43 10.33 9.23 8.13 6.81	.00	.00 .45 2.45 5.73 9.87 12.05 11.43 10.33 9.23 8.13 6.81

#### OUTPUT SUMMARY

 PEAK FLOW (cfs)
 =
 12.05

 PEAK STAGE (ft)
 =
 83.11

 PEAK STORAGE (ac-ft)
 =
 1.015

 TIME TO PEAK (hrs.)
 =
 1.00

Pond 2-22(222bas6)

# \*\*\*\*\* WEIR STRUCTURE \*\*\*\*\*

NUMBER OF WEIRS	=	1
WEIR COEFFICIENT	=	3.3
EXPONENTIAL CONSTANT	=	1.5
WEIR ELEVATION (ft)	=	80.35
WEIR LENGTH (ft)	=	.80
TOP BANK ELEVATION (ft)	=	83.00
POND AREA AT TOP BANK (acres)	=	.440
POND PERIMETER AT TOP BANK (ft)	=	640.0
SIDE SLOPE OF POND	=	4.0
DESIGN NORMAL WATER ELEVATION (ft)	=	80.35
DISCHARGE ELEVATION (ft)	=	80.35
TREATMENT VOLUME (ac-ft)	=	.350
PERCOLATION RATE (in/hr)	. =	.00

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
				<del></del>	
80.35 80.35 80.55 80.75 80.95 81.15 81.35 81.55 81.75 81.95	.295 .295 .305 .315 .326 .336 .347 .358 .369 .380	.000 .000 .060 .122 .186 .252 .321 .391 .464 .539	.00 .00 .00 .00 .00 .00 .00	.00 .00 .24 .67 1.23 1.89 2.64 3.47 4.37 5.34 6.38	.00 .24 .67 1.23 1.89 2.64 3.47 4.37 5.34 6.38
82.35 82.55 82.75 82.95	.402 .414 .425 .437	.695 .777 .861 .947	.00 .00 .00 .00	7.47 8.61 9.82 11.07	7.47 8.61 9.82 11.07

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

Pond 2-22(222bas6)

# OUTPUT SUMMARY

FREQUENCY	RESULTS	1-HR	2-HR	OURATION 4-HR	8-HR	24-HR
2-YR	Q-pre	1.35	2.39	3.53	4.86	7.15
	Q-post	3.32	3.55	3.59	3.70	1.81
	E-max	81.51	81.57	81.58	81.60	81.12
5-YR	Q-pre	2.66	4.22	5.86	7.60	10.51
	Q-post	4.86	5.20	5.10	5.20	2.51
	E-max	81.85	81.92	81.90	81.92	81.31
10-YR	Q-pre	3.84	5.94	7.76	9.95	13.07
	Q-post	6.08	6.69	6.22	6.46	3.02
	E-max	82.09	82.21	82.12	82.17	81.44
25-YR	Q-pre	5.73	8.29	10.71	13.12	16.99
	Q-post	7.87	8.45	7.86	7.96	3.81
	E-max	82.42	82.52	82.42	82.44	81.63
50-YR	Q-pre	7.33	10.43	12.85	15.53	19.41
	Q-post	9.35	10.21	9.06	9.14	4.22
	E-max	82.67	82.81	82.62	82.64	81.72
100-YR	Q-pre	9.09	12.79	15.53	18.38	22.49
	Q-post	10.86	12.05	10.67	10.60	4.86
	E-max	82.92	83.11	82.89	82.88	81.85

CRITICAL DURATION : \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 12.79 Q-post (cfs) = 12.05 E-max (ft) = 83.11

## BASIN 6 - HYDROLOGY 2-23

Pre Development Hydrology

Basin 6

Approximate Stations 486+00 to 503+00 US 301 687+00 to 700+00 6th Street

Total Area (ac) =

4.74

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Land Use	Hydrologic Soil Group	Area (ac)	CN	Product
US 301:				
impervious (32')		1.25	98	122.5
pervious	Α	1.09	39	42.51
pond site	Α	0.61	49	29.70
6th Street:		•		
impervious (24')		0.72	98	70.56
pervious	Α	1.07	<b>3</b> 9	41.73
Total Area (ac) =		4.74		307.00

Weighted CN = 64.8

Post Development Hydrology

Basin 6

Approximate Stations 486+00 to 503+00 US 301 687+00 to 700+00 6th Street

Total Area (ac) =

4.74

Soils =

Tavares-Urban land complex

Weighted CN Calculation:

Hydrologic Land Use Soil Group Area (ac) CN Product US 301: Impervious (54') 2.11 98 206.78 Pervious Α 0.23 39 8.97 Pond (Impervious) 0.33 98 32.40 Pond (Pervious) Α 0.28 39 10.74 6th Street: Impervious (54') 1.61 98 157.78 Pervious Α 0.18 39 7.02 Total Area (ac) = 4.74 423.69 Weighted CN = 89.5

#### **BASIN 6 - TREATMENT 2-23**

1 in. over impervious, DCIA and Pond TOB =

0.34 Ac.-ft

12 cfs

#### **BASIN 6 - HYDRAULICS 2-23**

Basin No. Basin 6 Location 697+00 LT.

Estimated Ground Surface Elevation at pond = 81.5 ft.
Estimated depth to Seasonal High Water, ft = 3.50 ft.
Estimated Seasonal High Water Elevation = 78.0 ft.

Pond site width= 120 ft. Pond site Length= 220 ft.

Pond site area= 0.61 Ac.

Pond TOB width = 80 ft. Pond TOB length = 180 ft.

Pond TOB area= 0.33 Ac.

Pond TOB el. = 84.0 ft.
Pond 100 yr. el. = 83.74 ft. E-Max from Supra

Weir elevation = 80.56 ft.

Outfall TW elevation (5 yr.)= 80.7 ft.

Length of pipe to outfall = 3000 ft.

estimated pipe size = 36 in.

Estimated low road E/P in basin = 83.4 ft.

5 yr. Critical duration pond elevation = 82.42 ft. from supra HGL slope = 0.08% estimated

Approximate stormsewer length pond to low point = 20 ft. calculated HGL at low point = 82.44 ft. Low point - HGL = 1.0 ft.

1- 4-2001

## Pond 2-23(223bas6)

# \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	4.74
CURVE NUMBER	****	64.8
RUNOFF COEFFICIENT	<u></u>	.387
TIME OF CONCENTRATION (min.)	=	20.0
RAINFALL INTENSITY (in/hr)	=	7.60
PEAK FLOW RATE (cfs)	=	13.93
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	<b>200</b>	4.74
CURVE NUMBER	==	89.5
RUNOFF COEFFICIENT	=	.797
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	=	5.96

TIME (hrs)	I/Ptotal	INFLOW	STAGE	TOTAL	PERCOLATION	CONNECTED
	RATIO	(cfs)	(ft)	OUTFLOW	FLOW	OUTFLOW
.0 .2 .4 .6 .8 1.0 1.2 1.4 1.6 1.8 2.0	.000 .500 .750 1.000 1.250 .500 .300 .250 .200	.00 11.26 16.89 22.52 28.15 11.26 6.76 5.63 4.50 3.38	78.00 78.71 80.48 81.93 83.07 83.51 83.30 83.02 82.76 82.51 82.20	.00 .00 .00 4.26 10.53 13.37 12.02 10.22 8.65 7.23 5.59	.00 .00 .00 .00 .00 .00 .00	.00 .00 .00 4.26 10.53 13.37 12.02 10.22 8.65 7.23 5.59

## OUTPUT SUMMARY

\_\_\_\_\_\_

PEAK FLOW (cfs)	=	13.37
PEAK STAGE (ft)	=	83.51
PEAK STORAGE (ac-ft)	<b>=</b>	1.041
TIME TO PEAK (hrs)	=	1 00

1- 4-2001

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Pond 2-23(223bas6)

#### \*\*\*\*\* WEIR STRUCTURE \*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft) WEIR LENGTH (ft)	=	3.3 1.5 80.56 .80
TOP BANK ELEVATION (ft) POND AREA AT TOP BANK (acres) POND PERIMETER AT TOP BANK (ft) SIDE SLOPE OF POND DESIGN NORMAL WATER ELEVATION (ft) DISCHARGE ELEVATION (ft)	=======================================	540.0 4.0
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)		

#### \*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

		<b></b>			
STAGE (ft)	AREA (acres)	STORAGE (ac-ft)	PERCOLATION FLOW	CONNECTED OUTFLOW	TOTAL OUTFLOW
78.00 80.56 81.06 81.56 82.06 82.56 83.06	.085 .177 .197 .218 .239 .262	.000 .336 .429 .533 .647 .772	.00 .00 .00 .00 .00	.00 .00 .93 2.64 4.85 7.47	.00 .00 .93 2.64 4.85 7.47
83.56	.308	1.057	.00	13.72	13.72

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

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Pond 2-23(223bas6)

#### OUTPUT SUMMARY

FREQUENCY	RESULTS		_	DURATIO		
		1-HR	2-HR	4-HR	8-HR	24-HR
2-YR	Q-pre	2.01	3.14	4.31	5.63	7.83
	Q-post	1.75	2.41	3.45	3.80	1.85
	E-max	81.30	81.49	81.74	81.82	81.33
5-YR	Q-pre	3.52	5.13	6.75	8.43	11.13
	Q-post	3.81	4.51	5.16	5.45	2.52
	E-max	81.83	81.98	82.12	82.17	81.52
10-YR	Q-pre	4.83	6.94	8.71	10.77	13.62
	Q-post	5.49	6.51	6.50	6.77	3.03
	E-max	82.18	82.38	82.38	82.43	81.65
25-YR	Q-pre	6.88	9.39	11.68	13.91	17.39
25-1K	Q-pre Q-post	7.87	8.82	8.51	8.26	3.83
	E-max	82.63	82.79	82.74	82.69	81.83
50-YR	Q-pre	8.57	11.57	13.83	16.27	19.72
	Q-post	9.80	11.06	9.88	9.42	4.22
	E-max	82.95	83.16	82.97	82.89	81.92
100-YR	Q-pre	10.41	13.93	16.46	19.03	22.64
	Q-post	11.73	13.37	11.65	10.84	4.84
	E-max	83.26	83.51	83.25	83.12	82.06
·	· 	<u>'</u>	'			

CRITICAL DURATION: \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 13.93 Q-post (cfs) = 13.37 E-max (ft) = 83.51

## **BASIN 4,5,6 - HYDROLOGY**

#### Pond 2-24

Pre Development Hydrology

Combined basins 4, 5, & 6

Approximate Stations 460+00 to 503+00 US 301 659+00 to 700+00 6th Street

Total Area (ac) =

16.60

Soils =

Sparr

## Weighted CN Calculation:

## Hydrologic

Land Use	Soil Group	il Group Area (ac)		Product
US 301:				
impervious		2.96	98	290.08
pervious	Α	2.97	39	115.83
pond site	С	5.02	70	351.53
6th Street:		•		
impervious (24')	Α	2.27	98	222.46
pervious	Α	3.38	39	131.82
Total Area (ac) =		16.60		1111.72

Weighted CN = 67.0

## Post Development Hydrology

Combined basins 4, 5, & 6

Total Area (ac) =

16.60

Soils =

Tavares-Urban land complex

## Weighted CN Calculation:

## Hydrologic

Land Use	Land Use Soil Group		CN	Product
US 301:				
Impervious (54')		5.33	98	522.34
Pervious	Α	0.60	39	23.4
Pond (Impervious)		3.76	98	368.62
Pond (Pervious)	С	1.26	70	88.22
6th Street:				
Impervious (54')		5.08	98	497.84
Pervious	Α	0.57	39	22.23
Total Area (ac) =		16.60		1522.66
	•		N =	91.7

## **BASIN 6 - TREATMENT 2-24**

1 in. over impervious, DCIA and Pond TOB =

1.18 Ac.-ft

36 in.

## BASIN 6 - HYDRAULICS 2-24

Basin No.

Combined basins 4, 5, & 6

Location

690+00 LT.

Estimated Ground Surface Elevation at pond =	83.5	ft.
Estimated depth to Seasonal High Water, ft =	1.50	ft.
Estimated Seasonal High Water Elevation =	82.0	ft.

Pond site width=	350 ft.	Pond site Length=	625 ft.
Pond site area=	5.02 Ac.	<b>3</b>	0_0
Pond TOB width =	290 ft.	Pond TOB length =	565 ft.
Pond TOB area=	3.76 Ac.	3	000 11.
Pond TOB el. =	83.5 ft.		
Pond 100 yr. el. =	83.36 ft. E-M	ax from Supra	

83.36 ft. E-Max from Supra

Weir elevation =	80.35 ft.
Outfall TW elevation (5 yr.)=	80.7 ft.
Length of pipe to outfall =	2700 ft.
estimated pipe size =	36 in

Estimated low road E/P in basin = 84.5 ft. 5 yr. Critical duration pond elevation = 82.94 ft. from su HGL slope = 0.08% estimated Approximate stormsewer length pond to low point = 600 ft.

calculated HGL at low point = 83.42 ft. Low point - HGL = 1.1 ft.

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#### Pond 2-24 (comb)

#### \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

PRE-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	16.60
CURVE NUMBER	=	67.0
RUNOFF COEFFICIENT	==	.419
TIME OF CONCENTRATION (min.)	=	30.0
RAINFALL INTENSITY (in/hr)	=	6.38
PEAK FLOW RATE (cfs)	=	44.42
POST-DEVELOPMENT CONDITION:		
DRAINAGE AREA (acres)	=	16.60
CURVE NUMBER	m	91.7
RUNOFF COEFFICIENT	=	.838
RAINFALL ZONE NUMBER	=	6
TOTAL RAINFALL DEPTH (inches)	=	5.96

### OUTPUT SUMMARY

\_\_\_\_\_\_

PEAK FLOW (cfs) = 41.00
PEAK STAGE (ft) = 83.15
PEAK STORAGE (ac-ft) = 4.157
TIME TO PEAK (hrs) = 1.00

1- 4-2001

Pond 2-24 (comb)

## \*\*\*\*\* WEIR STRUCTURE \*\*\*\*\*

NUMBER OF WEIRS WEIR COEFFICIENT EXPONENTIAL CONSTANT WEIR ELEVATION (ft) WEIR LENGTH (ft)	= = =	3.3 1.5 82.34 17.00
TOP BANK ELEVATION (ft) POND AREA AT TOP BANK (acres) POND PERIMETER AT TOP BANK (ft) SIDE SLOPE OF POND DESIGN NORMAL WATER ELEVATION (ft) DISCHARGE ELEVATION (ft)	= =1 = =	1760.0 4.0
TREATMENT VOLUME (ac-ft) PERCOLATION RATE (in/hr)	==	

\*\*\*\* STAGE/STORAGE/DISCHARGE DATA \*\*\*\*

			<b></b>		
STAGE	AREA	STORAGE	PERCOLATION	CONNECTED	TOTAL
(ft)	(acres)	(ac-ft)	FLOW	OUTFLOW	OUTFLOW
82.00	3.521	.000	.00	.00	.00
82.34	3.575	1.206	.00	.00	.00
82.54	3.606	1.924	.00	5.02	5.02
82.74	3.638	2.649	.00	14.19	14.19
82.94	3.670	3.379	.00	26.07	26.07
83.14	3.702	4.117	· .00	40.14	40.14
83.34	3.734	4.860	.00	56.10	56.10

NOTE: The stage-storage data is computed by a rectangular shape approximation in conjunction with the double-end area method. The other option should be used for highly irregular pond shape or for nonuniform side slope.

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LICENSED TO:

Pond 2-24 (comb)

## OUTPUT SUMMARY

FREQUENCY RESULTS DURATION 1-HR 2-HR 4-HR 8-HR 24-HR 2-YR 10.53 | 13.99 | Q-pre 7.10 17.82 24.05 4.94 7.33 Q-post 10.70 11.72 6.54 E-max | 82.54 82.59 | 82.66 | 82.69 | 82.57 5-YR 16.93 21.73 26.59 Q-pre 12.10 10.79 Q-post 13.05 17.06 17.87 E-max | 82.67 | 82.71 | 82.79 | 82.80 | 82.63 10-YR Q-pre 16.20 | 22.47 27.63 33.55 15.13 18.65 Q-post 21.39 23.02 10.67 82.76 82.82 82.86 E-max 82.89 82.66 25-YR Q-pre 22.64 30.01 36.64 43.00 Q-post | 22.69| 25.30 27.64 28.52 13.27 E-max 82.88 82.93 82.96 82.97 82.72 50-YR Q-pre 27.95 36.73 43.25 50.20 59.88 Q-post 28.85 33.04 31.92 32.93 14.66 E-max | 82.98 | 83.04 | 83.02 | 83.04 | 82.75 100-YR 34.05 | 44.42 | 51.75 Q-pre 59.12 69.34 Q-post 35.40 41.00 38.19 38.19 16.81 E-max | 83.07 | 83.15 | 83.11 | 83.11 | 82.78

CRITICAL DURATION: \*\*\*\* 2-HOUR, 100-YEAR STORM \*\*\*\*

Q-pre (cfs) = 44.42 Q-post (cfs) = 41.00 E-max (ft) = 83.15

## APPENDIX C FLOODPLAIN COMPENSATION CALCULATIONS BASINS 1 THROUGH 6

## **BASIN 1 - FLOODPLAIN**

## Floodplain impacts

Basin 1 U.S. 301

U.S. 301								
	Station	to Station	Side	Length ft.	Width ft.	Area Ac.	Fema E	1.
	38500	39400	Lt.	900	30	0.62	75.5 to	76.0
	39400	40300	Lt.	900	30	0.62	76.0 to	77.0
	41050	41300	L.t.	250	30	0.17	80.5 to	81.0
	41400	41550	Lt.	150	30	0.10	80.5 to	81.0
	42000	42400	Lt.	400	30	0.28	82.0 to	82.0
6th St.								
	61050	61250		200	60	0.28	80.5 to	81.0
	61350	61600		250	60	0.34	80.5 to	81.0
Total Area						2.41		

# BASIN 2 - FLOODPLAIN

## Floodplain impacts

Basin 2 U.S. 301

0.0,00,	<b>.</b>	a	<b></b>				
	Station to	Station	Side	Length ft.	Width ft.	Area Ac.	Fema El.
	42400	42950	Lt.	550	30	0.38	82.0 to 82.5
6th St.							
	61800	63000		1200	60	1.65	82.0 to 82.5
	63400	63500		100	60	0.14	83.0
Tibela							
Total Area						2.17	

## **BASIN 3 - FLOODPLAIN**

## Floodplain impacts

Basin 3 U.S. 301

	Station to 43700 44650	Station 44350 44700	Lt.	Length ft. 650	30	0.45	Fema El.
6th St.	44650	44700	Lt.	50	30	0.03	
	63500	63600		100	60	0.14	
	64150	64450		300	60	0.41	
	64600	65050		450	60	0.62	
Total Area			,			1.65	

#### BASIN 4 - FLOODPLAIN

(no impacts)

## **BASIN 5 - FLOODPLAIN**

## Floodplain impacts

Basin 5 U.S. 301

Station to Station Side Length ft. Width ft. Area Ac. Fema El. 48000 48200 Lt. 200 30 0.14
6th St. 67900 68100 200 60 0.28

Total Area 0.41

#### **BASIN 6 - FLOODPLAIN**

## Floodplain impacts

Basin 6 U.S. 301

Station to Station Side Length ft. Width ft. Area Ac. Fema El. 49200 49350 Lt. 150 30 0.10 49700 49900 Lt. 200 30 0.14 6th St. 69200 69350 150 60 0.21 69650 70000 350 60 0.48 Total Area 0.93

# APPENDIX D POND COST ESTIMATES

					ARTMENT OF T				PBS&J#:	700103.30 5023
FM#:	2564221		Former WPW:	SEV	EN RIGHT OF W	AT CUS	ESTIMATE	District:	PBSQJ#:	Seven
County:	Pasco		FAP No.:		1455-001-U			Date:		30-Jan-01
State Rd.: Project Des.	41 \$9.41.01	IS 301) from SR39 to (	Alternate: CR54 One Way (	Pairc	POND 2-1 Using 6th St & U	\$301		C.E. Sequence		NIA
Parcels	Gross	Net	0115 4; 0110 144 j		03.118 01.11 01.01		Estimated Re	locatees:		
Commercial	1	<u>1</u>					Business Residential		0	
Residential Unimproved	3	- 3					Signs		<u>0</u>	
,							Special		0	
Total Parcels	4	4					Total Relocat		Ų	
R/W SUPPORT C		ASE 41) (Parcels	А	x	13.800 *	Rate	}	Amount 52,000		
2. Indirect Over		(Parcels	4	x	0 -			0		
3.		(, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,			*			TOTAL PHASE 41		<b>\$52,00</b> 0
RIW OPS (PHAS									Amount	
4. Appraisal Fa		h Trial . Fees Through Trial				4 D	Parcels Claims	x 12,000 = 19,000 =	48,000	
6. Court Repor			75%	X	4 *	: 3	Parcels	x 500 =	1,500	
7. Expert Witn	1855		75%	X	4 .	· 3 · 2	Parcels	x 30,000 = x 2,400 =	90,000 4,800	
8. Mediators 9. Demolition,	Ash. Ahate	a., Survey, etc.	50%	X		. 2	Parcels Impremet	x 15.000 =	4,800	
10. Miscellaneo	ous Contrac					1	Per Project	x 15,000 ×	15,000	
11. Appreisal F	ee Review					N/A	Parcels	x 5,000 = Total phase 48	0	\$159,300
12. R/W LAND COST	TO (DILACE	421							Subtotal	4133,301
		43) : Severance Damages						Amount S	antafật	
and Cost to		-	D	x	130%	Design p	olan stage	=0		
14. Water Rete		t.	152,088	X	130% (		wio RIW Acq)	197,700		
15. SUBTOTAL		(Fauta-	AE4/		200/ -	(Lines 1)	-	20 700	197,700	
16. Admin. Sett 17. Litigation A		(Factor	45% 60%	X		f Line 15) f Line 15)		= <u>26,700</u> = 83,000		
18. Business Da		(Claims	0	X	\$0)			<b>-</b> 0		
19. Bus. Damag	•		25%	X	\$0 )			22 B		
20. Owner App		(Parcels	3	X	\$10,000 )			= <u>30,000</u>		
21. Owner CPA 22. Defend.Atty		(Claims (Sum of Lines 16,17&	109,700	X	\$10,000 ) 40% )			= 0 = 43,900		
		(Comm.+Unimproved)		+	•	18,0BC	)	72,000		
24. Other Cond	iemn. Costs		4	x	\$500		_	= 2,000		
25. SUBTOTAL						(Lines 1	6 thru 24)	*	257,600	
26.										
	nancy for	decina nian stane:						TOTAL PHASE 43		<b>\$455,30</b> 0
• Design contin	igency for a plans - 130	design plan stage: 0% (2) 30% plans - 12	?5% (3) 60% pla	ns -	120% (4) 90% pl	ans -1155	4 (5) 268 Data			\$455,300
* Design contin (1) PD&E	plans - 13t	design plan stage: 0% (2) 30% plans - 12 LTANT (PHASE 42)	?5% (3) 60% pla	ns -	120% (4) 90% pl	ans -1155	4 (5) 268 Data	-110%		¥456,500
* Design contin (1) PD&E RIW ACQUISITIO 27.	<i>pians - 13i</i> On Consu	0% (2) 30% plans - 12 LTANT (PHASE 42)	25% (3) 60% pla	ns -	120% (4) 90% pl	ans -1155	4 (5) 268 Data			\$405,30U \${
* Design contin (1) PD&E RIW ACQUISITION 27. RELOCATION CO	<i>pians - 130</i> On Consu Osts (Pha	<i>0% (2) 30% plans - 12</i> LTANT (PHASE 42) SE 45)	?5% (3) 50% pla	ns -		ans -1155		-110%		
* Design contin (1) PD&E RIW ACQUISITH 27. RELOCATION CO	<i>pians - 130</i> On Consu Osts (Pha	0% (2) 30% plans - 12 LTANT (PHASE 42)	,		Number	ans -1155	Amount	-110%		
* Design contin (1) PD&E RIW ACQUISITION 27. RELOCATION CO	<i>pians - 130</i> On Consu Osts (Pha	<i>0% (2) 30% plans - 12</i> LTANT (PHASE 42) SE 45)	, \$20,000	x		ans -1155		-110%		
* Design contin (1) PD&E RIW ACQUISITE 27. RELOCATION CO 28. Owner	<i>pians - 130</i> On Consu Osts (Pha	9% (2) 30% plans 12 LTANT (PHASE 42) SE 45) ment Housing	,		Number 0	* =	Amount 0	-110%		
* Design conting (1) PD&E RIW ACQUISITE 27. RELOCATION CC 28. Owner 29. Tenant 30. Residential	Plans - 13t ON CONSU OSTS (PHA Replace Move Co	9% (2) 30% plans 12 LTANT (PHASE 42) SE 45) ment Housing	\$20,000 \$10,000 \$1,500	x	Number 0 0	* * *	Amount 0 0	-110%		
* Design contin (1) PD&E R W ACQUISITE 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business Fa	plans - 13t ON CONSU OSTS (PHA Replace Move Co	9% (2) 30% plans 12 LTANT (PHASE 42) SE 45) ment Housing	\$20,000 \$10,000 \$1,500 \$20,000	х х х	Number 0 0	# # #	Amount 0 6 6 0 0 0 0 0 0	-110%		
* Design contin (1) PD&E R W ACQUISITM 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business Fe 32. Personal Pr	ON CONSU ON CONSU OSTS (PHA Repiace Move Co	9% (2) 30% plans 12 LTANT (PHASE 42) SE 45) ment Housing	\$20,000 \$10,000 \$1,500	X X	Number 0 0	* # # # # # # # # # # # # # # # # # # #	Amount 0 0	TOTAL PHASE 42		**
* Design contin (1) PD&E R W ACQUISITE 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business Fa	ON CONSU ON CONSU OSTS (PHA Repiace Move Co erm roperty aru 32)	9% (2) 30% plans 12 LTANT (PHASE 42) SE 45) ment Housing	\$20,000 \$10,000 \$1,500 \$20,000	х х х	Number 0 0	* = = = = = = = = = = = = = = = = = = =	Amount 0 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-110%		
* Design contin (1) PD&E R W ACQUISITE 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fe 32. Personal Pr 33. (Lines 28 th	ON CONSU ON CONSU OSTS (PHA Repiace Move Co erm roperty aru 32)	9% (2) 30% plans 12 LTANT (PHASE 42) SE 45) ment Housing	\$20,000 \$10,000 \$1,500 \$20,000	х х х	Number 0 0 0	* = = = = = = = = = = = = = = = = = = =	Amount  0  0  0  0  0  0  0  Phase Total)	TOTAL PHASE 42		<b>\$</b> {
* Design contine (1) PD&E RIW ACQUISITE 27. RELOCATION CC 28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pr 33. (Lines 28 th 34. Relocation 35.	plans - 131 ON CONSU OSTS (PHA Replace Move Co erm roperty atu 32) Services C	0% (2) 30% plans 12 LTANT (PHASE 42) SE 45) ment Housing osts	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000	X X X X	Number 0 0 0 0 0	* = = = = = = = = = = = = = = = = = = =	Amount 0 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 42  TOTAL PHASE 45		**
* Design contine (1) PD&E  R W ACQUISITE  27.  RELOCATION CC  28. Owner  29. Tenant  30. Residential  31. Business Fa  32. Personal Pr  33. (Lines 28 th  34. Relocation	plans - 131 ON CONSU OSTS (PHA Replace Move Co erm roperty atu 32) Services C	9% (2) 30% plans 12 LTANT (PHASE 42) SE 45) ment Housing	\$20,000 \$10,000 \$1,500 \$20,000	X X X X	Number 0 0 0	* = = = = = = = = = = = = = = = = = = =	Amount  0  0  0  0  0  0  0  Phase Total)	TOTAL PHASE 42		<b>\$</b> {
* Design conting (1) PD&E RIW ACQUISITIE 27. RELOCATION CC 28. Owner 29. Tenant 30. Residential 31. Business/Fr 32. Personal Pr 33. (Lines 28 th 34. Relocation 35. Appraisal: Bus. Dam.: Relocation:	plans - 131 ON CONSU OSTS (PHA Replaca Move Co arm roperty oru 32) Services C Gerald V NIA Gerald V	9% (2) 30% plans - 12 LTANT (PHASE 42) SE 45) ment Housing osts  N. Springstead II V. Springstead II	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000	X X X X	Number 0 0 0 0 0	* = = = = = = = = = = = = = = = = = = =	Amount  0  0  0  0  0  0  0  Phase Total)	TOTAL PHASE 42  TOTAL PHASE 45  TOTAL ESTIMATE  Date: Date: Date:	1/30/01	<b>\$</b> {
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					RANSPORTATION			
			DISTRICT SE	VEN BIGHT OF WA	Y COST ESTIMAT	E	PBS&J#: 7	00103.30 5023
	FM#: 2	2564221	Former WPW:	N}A		District:		ievan
	County: F	Pasco	FAP No.:	1455-001-U		Dete: C.E. Sequence		10-nat-0
	State Rd.: 4	11 SR 41 (US 301) from SR39 t	Alternate:	POND 2-2 rs Using 6th St & US	301.	C.C. Sequence	·	""
		Gross Net	D Chay, Olle Way 1 D	15 C3Mg C1 CC C C C	Estimated	lelocatees:		
	Commercial	1 0			Business		<u> </u>	
	Residential	0 6			Residentia	-	0	
	Unimproved _	3 0			Signs Special	•	1	
	Tatal Barasta	4 0			Total Reloc	ateas	F	
)	Total Parcels					Amount		
	RIW SUPPORT COS		ο,	13,090 =	Rate)	0		ì
Į	1. Direct Labor Co		0 7	13,000 =	Rate)	0		
Ì	2. Indirect Overhe	ead (Parcels		·		TOTAL PHASE 41		\$0
	3.		***************************************			The second secon	Amount	
	RIW OPS (PHASE 4				0 Parcels	x 12,000 ×	C	1
	4. Appraisal Fees	age CPA Fees Through Trial			3 Claims	x 19,000 =	57,000	
		r & Process Servers	75%	( B ==	O Parcels	x 500 =	C	-
	7. Expert Witnes:		75%	=	0 Parcels	x 30,000 =	0	
	8. Mediators		50%	*	8 Parcels	x 2,400 * x 15,000 =	0	
		b. Abate., Survey, etc.			0 Impremet 1 Per Projec		15,000	
	10. Miscellaneous 11. Appraisal Fee				NiA Parcels	x 5.000 *	0	
	12.	URAIRM				TOTAL PHASE 4E	}	\$72,000
		(0)(405.43)				Amount	Subtotal	
	RIW LAND COSTS		,			Amount	0.000	
		ments & Severance Damag	es 0 .	138%	Dasign plan staga	≖ Û		
!	and Cost to Ci 14. Water Betenti				Parcels w/o R/W Ac			
	15. SUBTOTAL	OH OF WINE.	201,001		(Lines 13 & 14)		308,100	
	16. Admin, Settles	ments {Factor	45%		Line 15)	<b>41,600</b>		
	17. Litigation Awa				Line 15)	<b>=</b> 129,400		
	18. Business Dam			x \$0)		= 56,900		i
	19. Bus. Damages	•	25%	x \$56,900)		= 14,200		
	20. Owner Appr. F		Ō	x \$10,000]		×0		
	21. Owner CPA Fo	ees {Claims	3	x \$10,000 }		<b>=</b> 30,000		
	22. Defend.Atty F	ees {Sum of Lines 16,1	7&1 185,200	x 40% )		= 74,190		
	23. Owner Expert	Witnes: (Comm.+ Unimprov			18,000	ER		
	24. Other Condom	ın. Costs	0	x <u>\$500</u>		=0	245 200	
	25. SUBTOTAL				(Lines 16 thru 24)	TOTAL PHASE 4	346,200	\$654,300
	26.					TIDIAL FRANCE	J	¥854,300
	Design continge	ncy for design plan staga: lans - 130% (2) 30% plans :	125% (3) 60% plans	. 120% (4) 90% pla	ns ·115% (5) 268 D	ata -110%		
	27.	CONSULTANT (PHASE 42)				TOTAL PHASE 4	7	\$0
						1,011,111,101		
								,
	RELOCATION COS			Ot comb an	*			
	RELOCATION COS	TS (PHASE 45) Replacement Housing	470 000	Number	Amount	n		
	RELOCATION COS 28. Owner			Number x 0	Amount	0		:
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	RELOCATION COS 28. Owner 29. Tenant		\$10,800	x 0 0		0		:
	RELOCATION COS 28. Owner 29. Tenent 30. Residential	Replacement Housing  Move Costs	\$10,800 \$1,500	x 0 x 0		<u>0</u>		:
·	RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr	Replacement Housing  Move Costs	\$10,000 \$1,500 \$20,000	x 0 x 0 x 0 x 0	22 23 25 26 26 26 26 26 26 26 26 26 26 26 26 26	0 0 0		:
	RELOCATION COS  28. Owner  29. Tenant  30. Residential  31. Business/Farr  32. Personal Prop	Replacement Housing  Move Costs  n perty	\$10,000 \$1,500 \$20,000	x 0 x 0		0 0 0 0	5	; \$2,090
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	RELOCATION COS  28. Owner  29. Yonant  30. Residential  31. Business/Farr  32. Personal Prop  33. (Lines 28 thru	Replacement Housing  Move Costs  n perty 1 32)	\$10,000 \$1,500 \$20,000	x 0 x 0 x 0 x 0 x 0 x 1	x	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	É	
	RELOCATION COS  28. Owner  29. Yonant  30. Residential  31. Business/Farr  32. Personal Prop  33. (Lines 28 thru  34. Relocation Se  35.  Appraisal:	Replacement Housing  Move Costs  n perty 1 32) prvices Cost  Gerald W. Springstead II	\$10,800 \$1,500 \$20,000 \$2,000 \$2,000	x 0 x 0 x 0 x 0 x 1 \$200	* \$2,0 {Not in Phase Total	B B B B B B B B B B B B B B B B B B B	(E \ /30/0\	
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	RELOCATION COS  28. Owner  29. Tenant  30. Residential  31. Business/Farr  32. Personal Prop  33. (Lines 28 thru  34. Relocation Se  35.  Appraisal: Bus. Dam.: Relocation: Overall Review:	Replacement Housing  Move Costs  n perty 1 32) prvices Cost  Gerald W. Springstead II Gerson, Preston & Co. Gorald W. Springstead II Norris L. Smith	\$10,800 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 Signed: P Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 1 \$200	* \$2,0 {Not in Phase Total	TOTAL PHASE 4  Solution 1  TOTAL ESTIMAT  Date: 2  Date: 1	16 1/30/0} 5-Jul-00 1/30/0)	
	RELOCATION COS  28. Owner 29. Tonant  30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35.  Appraisal: Bus. Dam.: Relocation:	Replacement Housing  Move Costs  n perty 1 32) prvices Cost  Gerald W. Springstead II Gerson, Preston & Co. Gorald W. Springstead II Norris L. Smith	\$10,800 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 Signed: P Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 1 1 \$208	* \$2,0 {Not in Phase Total	B B B TOTAL PHASE 4 st   TOTAL ESTIMA Date: Date: Date: Date:	16 1/30/0} 5-Jul-00 1/30/0)	
	RELOCATION COS  28. Owner  29. Yenant  30. Residential  31. Business/Farr  32. Personal Prop  33. (Lines 28 thru  34. Relocation Se  35.  Appraisal: Bus. Dem.: Relocation: Overall Review: Cost Estimate Ser	Replacement Housing  Move Costs  m perty 1 32) prvices Cost  Gerald W. Springstead II Gerson, Preston & Co. Garald W. Springstead II Norris L. Smith quence #: Dat	\$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3igned: Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 1 \$208	# \$2,0  {Not in Phase Total (All Phase	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMA  SI TOTAL ESTIMA  Date: Date: Date: Date: Date: Date: Total ESTIMA  Let : Date: Date: Date: Date: Date: Total ESTIMA	16 1/30/0) 5-Jul-90 1/30/0) 1/30/0) tion Date:	\$728,300
	RELOCATION COS  28. Owner  29. Yenant  30. Residential  31. Business/Farr  32. Personal Prop  33. (Lines 28 thru  34. Relocation Se  35.  Appraisal: Bus. Dem.: Relocation: Overall Review: Cost Estimate Ser	Replacement Housing  Move Costs  n perty 1 32) prvices Cost  Gerald W. Springstead II Gerson, Preston & Co. Garald W. Springstead II Norris L. Smith quence #: Dat	\$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3igned: Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 1 \$208	# \$2,0  {Not in Phase Total (All Phase	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMA  SI TOTAL ESTIMA  Date: Date: Date: Date: Date: Date: Total ESTIMA  Let : Date: Date: Date: Date: Date: Total ESTIMA	16 1/30/0) 5-Jul-90 1/30/0) 1/30/0) tion Date:	\$728,300
	RELOCATION COS  28. Owner  29. Yenant  30. Residential  31. Business/Farr  32. Personal Prop  33. (Lines 28 thru  34. Relocation Se  35.  Appraisal: Bus. Dem.: Relocation: Overall Review: Cost Estimate Ser	Replacement Housing  Move Costs  m perty 1 32) prvices Cost  Gerald W. Springstead II Gerson, Preston & Co. Garald W. Springstead II Norris L. Smith quence #: Dat	\$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3igned: Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 1 \$208	# \$2,0  {Not in Phase Total (All Phase	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMA  SI TOTAL ESTIMA  Date: Date: Date: Date: Date: Date: Total ESTIMA  Let : Date: Date: Date: Date: Date: Total ESTIMA	16 1/30/0) 5-Jul-90 1/30/0) 1/30/0) tion Date:	\$728,300
	RELOCATION COS  28. Owner  29. Yenant  30. Residential  31. Business/Farr  32. Personal Prop  33. (Lines 28 thru  34. Relocation Se  35.  Appraisal: Bus. Dem.: Relocation: Overall Review: Cost Estimate Ser	Replacement Housing  Move Costs  m perty 1 32) prvices Cost  Gerald W. Springstead II Gerson, Preston & Co. Garald W. Springstead II Norris L. Smith quence #: Dat	\$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3igned: Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 1 \$208	# \$2,0  {Not in Phase Total (All Phase	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMA  SI TOTAL ESTIMA  Date: Date: Date: Date: Date: Date: Total ESTIMA  Let : Date: Date: Date: Date: Date: Total ESTIMA	16 1/30/0) 5-Jul-90 1/30/0) 1/30/0) tion Date:	\$728,300
	RELOCATION COS  28. Owner  29. Yenant  30. Residential  31. Business/Farr  32. Personal Prop  33. (Lines 28 thru  34. Relocation Se  35.  Appraisal: Bus. Dem.: Relocation: Overall Review: Cost Estimate Ser	Replacement Housing  Move Costs  m perty 1 32) prvices Cost  Gerald W. Springstead II Gerson, Preston & Co. Garald W. Springstead II Norris L. Smith quence #: Dat	\$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3igned: Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 1 \$208	# \$2,0  {Not in Phase Total (All Phase	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMA  SI TOTAL ESTIMA  Date: Date: Date: Date: Date: Date: Total ESTIMA  Let : Date: Date: Date: Date: Date: Total ESTIMA	16 1/30/0) 5-Jul-90 1/30/0) 1/30/0) tion Date:	\$728,300
	RELOCATION COS  28. Owner  29. Yenant  30. Residential  31. Business/Farr  32. Personal Prop  33. (Lines 28 thru  34. Relocation Se  35.  Appraisal: Bus. Dem.: Relocation: Overall Review: Cost Estimate Ser	Replacement Housing  Move Costs  m perty 1 32) prvices Cost  Gerald W. Springstead II Gerson, Preston & Co. Garald W. Springstead II Norris L. Smith quence #: Dat	\$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3igned: Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 1 \$208	# \$2,0  {Not in Phase Total (All Phase	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMA  SI TOTAL ESTIMA  Date: Date: Date: Date: Date: Date: Total ESTIMA  Let : Date: Date: Date: Date: Date: Total ESTIMA	16 1/30/0) 5-Jul-90 1/30/0) 1/30/0) tion Date:	\$728,300
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	RELOCATION COS  28. Owner  29. Yenant  30. Residential  31. Business/Farr  32. Personal Prop  33. (Lines 28 thru  34. Relocation Se  35.  Appraisal: Bus. Dem. : Relocation: Overal! Review: Cost Estimato Ser  REMARKS:	Replacement Housing  Move Costs  m perty 1 32) prvices Cost  Gerald W. Springstead II Gerson, Preston & Co. Gorald W. Springstead II Norris L. Smith quence #: Dat  The percels included in Po (FM#2550991 & 2552891  icates the estimator's conit Type A - indicates the mos Type B - indicates above a Type C - indicates below a	\$1,500 \$1,500 \$20,000 \$20,000 \$2,000	x 0 x 0 x 0 x 1 x 1  \$200  \$200  In the Amount of \$  Inded in the mainline this reason, parcel co	# \$2,0  {Not in Phase Total (All Phase	TOTAL PHASE 4  SI TOTAL ESTIMA  Date: Date: Date: Date in the estimate.  Future Value Factor Year Two Year Three	1/30/0) 5-Jul-90 1/30/0) 1/30/0) tion Date:	\$728,300 \$timate 10% 1,1000 1,2100 1,3310
	RELOCATION COS  28. Owner  29. Tenant  30. Residential  31. Business/Farr  32. Personal Prop  33. (Lines 28 thru  34. Relocation Se  35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Ser REMARKS:	Replacement Housing  Move Costs  m perty 1 32) prvices Cost  Gerald W. Springstead II Gerson, Preston & Co. Gorald W. Springstead II Norris L. Smith quence #: Dat  The parcels included in Po (FM#2550991 & 2562891  Type A - indicates the mos Type B - indicates above a	\$1,500 \$1,500 \$20,000 \$20,000 \$2,000	x 0 x 0 x 0 x 1 x 1  \$200  \$200  In the Amount of \$  Inded in the mainline this reason, parcel co	# \$2,0  {Not in Phase Total (All Phase	SI TOTAL ESTIMA  SI TOTAL ESTIMA  SI TOTAL ESTIMA  Date: Date: Date: Date: Date Input Comple  SR 39 from i-4 to US 3 ded in the estimate.	1/30/0) 5-Jul-90 1/30/0) 1/30/0) tion Date:	\$728,300  stimate  10% 1.1000 1.2100
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					DEPARTMENT OF					
	6144	0504004			SEVEN RIGHT OF W	IAY COST	ESTIMALE	Di-+-i	PBS&J#:	7001030.30 5023
	FM#; County:	2564221 Pasco		Former WPW: FAP No.:	N/A 1455-081-U			District: Date:		Seven 30-Jan-01
	State Rd.:	41		Alternate:	POND 2-3	10224		C.E. Sequence		NIA
	Project Des. Parceis	SR 41 (US 301) fr Gross Net	rom SR39 to	UK54, Une Way I	Pairs Using 6th St & I	<u> 15381.</u>	Estimated Rel	ocatees:		
	Commercial	0 0					Business		<u>D</u>	
	Residential Unimproved	0 0					Residential Signs		0	ł
	Giritibinaed						Special		D	
	Total Parcels	1 1					Total Relocat		O	
	1-4	OSTS (PHASE 41)	)l-		x 13,000	= Rate)	ı	Amount 13,000		ļ
	1. Direct Labor ( 2. Indirect Overl		Parcels Parcels	1	x 13,000 x			13,000		
	3.							<b>TOTAL PHASE 4</b>	1	\$13,000
	RIW OPS (PHASE		######################################						Amount	<u> </u>
	4. Appraisal Fee	es Through Trial mage CPA Fees Thr	rough Trial			1 N	Parcels Claims	12,000 =		
	6. Court Report	tar & Process Servi		75%	x1	= Ĭ	Parcels :	< 500 ≂	500	
	7. Expert Witne 8. Mediators	iss		75% 50%	x 1 1	= 1 - 1	Perceis Parceis	30,000 ± 2,400 ×	30,000 2,400	
		Asb. Abate., Survey	y, etc.		^	Ö	Impremet	15,000 ×	. 0	
	10. Miscellaneou					1	Per Project			
	11. Appraisal Fee	9 HEAISM				N/A	Parcels )	TOTAL PHASE 4		\$59,900
	R/W LAND COSTS	S (PHASE 43)		L	<u></u>		· · · · · · · · · · · · · · · · · · ·	Amount	Subtotal	177,200
		rements & Severan	ice Damages							
•	1	Cure Amount		0 0 740		* Design p		- 0		
	14. Water Retent	uoл & Mit.		262,710	x 130% {	0 Percels 13 Lines 13}	w/o R/W Acq} { &14}	341,500	341,500	
	1	ements (Factor		45%	x 0% a	of Line 15)	. 417	. 0	341,340	
	17. Litigation Av	wards (Factor		60%		of Line 15)		204,900		
•	18. Business Dar			0 25%	x \$0} x \$0}		1	<u> </u>		
	19. Bus. Damage 20. Owner Appr.			25%	x \$10,000 }			10,000		
	21. Owner CPA F			Û	x \$10,000 )	)	,	= 0		
	22. Defend.Atty		Lines 16,17&		x 40%)		4	82,000		
	23. Owner Exper	rt Witnes: (Comm.+	·Unimproved)	)0		18,000	_	= 18,000 = 500		
	25. SUBTOTAL	nni. Custs			x\$500	(Lines 1f	5 thru 24)		315,400	
	26.							TOTAL PHASE 4		\$656,900
	* Design conting	rency for design plants 120 7.	an stage: //% nigne . 1:	25% (3) 68% ale	ns · 120% (4) 90% pi	iane .115%	(5) 258 Date	.110%		
		N CONSULTANT (P		.571 707 0071 pile.	13 · 120/1 (4/ 30/2 pr	0113 111371	(J) 100 Date	- 7107	<u>,</u>	<u> </u>
	27.	ii oolootikaii ji	IIAGE 4L)					TOTAL PHASE 4	2	\$0
•	RELOCATION COS	STS (PHASE 45)	***************************************						<del></del>	
	-	Replacement Hou	ısing		Number		Amount			
	28. Owner 29. Tenant			\$20,000 \$10,000	x0		B			
	25. Tenant	Move Costs		¥10,893	x	E				1
	30. Residential	WOAR POST2		\$1,500	x 0	<b>*</b>	0			
•	31. Business/Far	rm		\$20,000	x 0	355 ME	<u>B</u>			
	31. Business/Far 32. Personal Pro	rm Sperty			x 0	## ### ###		TOTAL BUSINESS		-
	31. Business/Far 32. Personal Pro 33. (Lines 28 thr	rm sperty ru 32)		\$20,000	x 0 x 0		B \$0	TOTAL PHASE 4	5	<b>\$</b> 0
•	31. Business/Fer 32. Personal Pro 33. (Lines 28 thr 34. Relocation S	rm sperty ru 32)	·	\$20,000	x 0 x 0		B \$D			
•	31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.	rm operty u 32) ervices Cost		\$20,000 \$2,800	x 0 x 0 \$0		B \$0	TOTAL ESTIMA	TE .	\$0 \$729,800
	31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.	rm sperty ru 32)	stead II	\$20,800 \$2,800	x 0 x 0		B \$D	TOTAL ESTIMA		
	31. Business[Fer 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam.: Relocation:	rm 19 32) 19 arvices Cost  Gerald W. Spring NIA Gerald W. Spring		\$2,000 \$2,000 \$2,000 Signed: Signed: Signed:	x 0 x 0 \$0		B \$D	TOTAL ESTIMA Date: Date: Date:	TE	
	31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. :	operty 2 32) ervices Cost Gerald W. Spring NIA		\$20,000 \$2,000 Signed: Signed:	x 0 x 0 \$0		B \$D	TOTAL ESTIMA Date: Date:	TE \ / 30/01	\$729,800
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	31. Business[Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	operty 13 32) Gerold W. Spring NIA Gerold W. Spring Norris L. Smith	stead li Dated:	\$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed:	x 0 x 0 \$0		\$0 \$0 thase Total) (All Phases)	TOTAL ESTIMA  Date: Date: Date: Date:	15 1730701 1730701	\$729,800
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	31. Business[Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se REMARKS:	gerold W. Spring NIA Gerold W. Spring NIA Gerold W. Spring Norris L. Smith Inquance #:	Dated:	\$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed:	x 0 x 0 \$0 \$0 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10		B \$0 thase Yotal) (All Phases)	TOTAL ESTIMA  Date: Date: Date: Date: Date: Date: Date:	1/30/0/ 1/30/0/ 1/30/0/ 1/30/0/ 1/30/0/	\$729,800
	31. Business[Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se REMARKS:	operty 19 32) arvices Cost  Gerald W. Spring N/A Gerald W. Spring Norris L. Smith	Dated: Of the pond al	\$20,000 \$2,000 \$2,000  Signed: Signed: Signed: Signed: Signed:	x 0 x 0 \$0 \$0 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10		B 40	TOTAL ESTIMA  Date: Date Input Comple	1/30/0/ 1/30/0/ 1/30/0/ 1/30/0/ 1/30/0/	\$729,800 /
	31. Business Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:	Gerald W. Spring NIA Gereld W. Spring NIA Gereld W. Spring Norris L. Smith Iquence #:  Pond 2-3 is one of	Dated:  Dated: of the pond all or's contiden s the most co	\$20,000 \$2,000 \$2,000 \$2,000 \$2,000 Signed:	x 0 x 0 \$0 \$0 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10		B \$0 \$0 (All Phases)	TOTAL ESTIMA  Date: Date: Date: Date: Date: Date: Date: Date input Comple	1/30/0/ 1/30/0/ 1/30/0/ 1/30/0/ 1/30/0/	\$729,800 , , 1.1000 1.2100
	31. Business[Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se REMARKS:	Gerald W. Spring N/A Gerald W. Spring N/A Gerald W. Spring Norris L. Smith Iquance #: Pond 2-3 is one of dicates the estimat Type A - indicates Type B - indicates	Dated: Dated: Of the pond al	\$2,000 \$2,000 \$2,000 \$2,000 \$2,000 Signed:	x 0 x 0 \$0 \$0 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10		B \$0  thase Yotal) (All Phases)	TOTAL ESTIMA  Date: Date	1/30/0/ 1/30/0/ 1/30/0/ 1/30/0/ 1/30/0/	10% 1.1000 1.2100 1.3310
	31. Business[Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:	gerald W. Spring NIA Gerald W. Spring NIA Gerald W. Spring Norris L. Smith equence #:  Pond 2-3 is one of Type A indicate: Type B indicate: Type C indicate: Type C indicate: Type D indicate:	Dated: Dated: of the pond all or's confidents the most constants above averas below averas the least or	\$20,000 \$2,000 \$2,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: or	x 0 x 0 \$0 \$0 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10		B \$0 \$0 (All Phases)	TOTAL ESTIMA  Date: Date: Date: Date: Date: Date: Date: Date input Comple	1/30/0/ 1/30/0/ 1/30/0/ 1/30/0/ 1/30/0/	\$729,800 , , 1.1008 1.2100
	31. Business[Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:  The following ind	Gerald W. Spring NIA Rorris L. Smith Squence #:  Pond 2-3 is one of Type A indicate: Type B indicate: Type C indicate: Type D indicate: Type D indicate:	Dated: Dated: of the pond all or's confidents the most constants above averas below averas the least or	\$20,000 \$2,000 \$2,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed: or Signed: Signed: or Signed: or Signed: signed: or Or Or Signed: or	x 0 \$0 \$0 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	(Not in P	B \$0 \$0 (All Phases)	Date:		10% 1.100B 1.2100 1.3310 1.4641 1.6105
	31. Business[Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:	Gerald W. Spring NIA Rorris L. Smith Squence #:  Pond 2-3 is one of Type A indicate: Type B indicate: Type C indicate: Type D indicate: Type D indicate:	Dated: Dated: of the pond all or's confidents the most constants above averas below averas the least or	\$20,000 \$2,000 \$2,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: or	x 0 \$0 \$0 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	(Not in P	B \$0 \$0 (All Phases)	Date:	1/30/0/ 1/30/0/ 1/30/0/ 1/30/0/ 1/30/0/	10% 1.100B 1.210D 1.3310 1.4641 1.6105

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					PARTMENT OF				0000	700400 00 5000
				SEV	EN RIGHT OF W	AY CUST	ESHMATE		PBS&J#:	700103.30 5023
FM#:	2564221		Former WPW: FAP No.:		N/A 1455-001-U			District: Date:		Seven 30-Jan-01
County: State Rd.:	Pasco 41		Alternate:		POND 2-4			C.E. Sequence		N/A
Project Des.		301) from SR39 to		Pair:		IS301.		0.2. 0.4		
Parcels	Gross	Net					Estimated Re	locatees:		,
Commercial	- 0	<u>0</u>					Business		0	į
Residential Unimproved	- 1	<u>1</u> 0					Residential Signs		<u>0</u>	1
Ommipi Oven							Special		0	1
Total Parcels	1	1					Total Relocat	882	0	
N/W SUPPORT C	OSTS (PHA:	SE 41)			······································			Amount		
1. Direct Labor	Cost	(Parcels		X	13,000 -	Rate)		13,000		
2. Indirect Over	rhead	{Parcels	1	X	0 ×	Rate		ß		
3.								TOTAL PHASE 4	1	\$13,000
RIW OPS (PHASI	E 48)								Amount	
4. Appraisal Fe						1	Parcels	x 12,000 =	12,000	
		ees Through Trial	7747			0	Claims	x 19,000 =	0	اً *
6. Court Repor 7. Expert Witn		ss servers	75% 75%	X		• 1 • 1	Parcels Parcels	x 500 = x 30,000 =	30,000	
8. Mediators	033		50%	X		. i	Parcels	x 2.400 ×	2,400	
	Asb. Abate.,	Survey, etc.		-	<del></del>	ó	Imprymet	x 15,000 ==	0	
10. Miscellaneo	us Contract					1		x 15,000 =	15,000	İ
11. Appraisal Fe	ee Review					N/A	Parceis	x 5,000 ≈	0	
12.								TOTAL PHASE 4	В	\$59,900
R/W LAND COST	S (PHASE 4	3)						Amount	Subtotel	
		Severance Damages								İ
ì	Cure Amou	ıt	0	X		Design p		=0		. [
14. Water Reter	ntion & Mit.		165,585	X	130% (	Parcels v	wio R/W Acq)	215,300		
15. SUBTOTAL						(Lines 13	8 & 14)		215,300	
16. Admin. Sett		actor	45%	X	***************************************	f Line 15)		=0		
17. Litigation A	-	actor	60%	X		f Line 15)		129,200		
18. Business Da		Jaims	0	X	\$8 )			<u> </u>		
19. Bus. Damag 20. Owner Appr		actor 'arcels	25%	X	\$0 ) \$10,000 )			= <u>0</u> = 10,000 .		
21. Owner CPA		laims	1 0	X	\$10,000)			# 10,000 .		
22. Defend.Atty	•	oum of Lines 16,17&		X	40%)			= 51,700		
		omm. + Unimproved)		·		18,000		= 0		
24. Other Conde			1	x	\$500	10,000	-	= 500		
25. SUBTOTAL			·			(Lines 16	i thru 24)	±	191,400	
26.									5	1444
20.								TIBLAL PHASE 4	3	\$406,700
• Design conting	gancy for de	sign plan stage:						TOTAL PHASE 4	3	\$406,700
• Design conting	gancy for de plans - 1309	sign plan stage: 4 (2) 30% plans - 12	?5% (3) 60% pla	ns.	120% (4) 90% pl	ans -115%	(5) 268 Date		3	\$406,700
* Design conting (1) PD&E	plans - 1305	sign plan stage: 4 (2) 30% plans - 12 ANT (PHASE 42)	?5% (3) 50% pla	ns ·	120% (4) 90% pl	ans -115%	(5) 268 Date		3	\$406,700
* Design conting (1) PD&E	plans - 1305	(2) 30% plans - 12	25% (3) 60% pla	ns ·	120% (4) 90% pl	ans -115%	(5) Z68 Date			\$406,700 \$0
* Design conting (1) PD&E R/W ACQUISITIO	<i>plans - 1309</i> IN CONSULT	4 (2) 30% plans - 12 ANT (PHASE 42)	?5% (3) 60% pla	ns ·	120% (4) 90% pl	ans -115%	(5) Z68 Date	-110%		
* Design conting (1) PD&E RIW ACQUISITIO 27. RELOCATION CO	<i>plans - 1309</i> IN CONSULT	4 <i>(2) 30% plans - 12</i> ANT (PHASE 42) E 45)	25% (3) 60% pla	ns ·	120% (4) 90% pl	ans -115%	(5) 268 Date	-110%		
* Design conting (1) PD&E RIW ACQUISITIO 27. RELOCATION CO 28. Owner	<i>pians - 1309</i> In Consult ISTS (Phasi	4 <i>(2) 30% plans - 12</i> ANT (PHASE 42) E 45)	?5% (3) 60% pla.	ns ·		ens -115%		-110%		
* Design conting (1) PD&E RIW ACQUISITIO 27. RELOCATION CO	plens - 1309 DN CONSULT DSTS (PHAS) Replacem	4 (2) 30% plans - 12 ANT (PHASE 42) - 45) ent Housing			Number		Amount	-110%		
* Design conting (1) PD&E RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenent	<i>pians - 1309</i> In Consult ISTS (Phasi	4 (2) 30% plans - 12 ANT (PHASE 42) - 45) ent Housing	<b>\$20,000</b>	х	Number D	2	Amount 0	-110%		
* Design contin. (1) PD&E RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential	plans - 1305 ON CONSULT ISTS (PHAS) Replacem Move Cos	4 (2) 30% plans - 12 ANT (PHASE 42) - 45) ent Housing	\$20,000 \$10,000 \$1,500	х	Number 0 0	2	Amount 0 0	-110%		
* Design contin. (1) PD&E RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fa	plans - 1305 N CONSULT ISTS (PHAS) Replacem Move Cos	4 (2) 30% plans - 12 ANT (PHASE 42) - 45) ent Housing	\$20,000 \$10,000 \$1,500 \$20,000	x x	Number 0 0	2	Amount 0 0 0 0 0 0 0 0 0	-110%		
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* Design contin. (1) PD&E RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pri 33. (Lines 28 th) 34. Relocation S 35. Appraisal: Bus. Dam.: Relocation:	Plans - 1309 ON CONSULT ISTS (PHASI Replacem Move Cos rm operty ru 32) Services Cos Gerald W. N/A Gerald W.	ANT (PHASE 42)  45)  45)  45)  ant Housing  ts  t  Springstead II  Springstead II	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000	х х х	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	호 	Amount 0 0 0 0 0 0 0 \$10 thase Total)	TOTAL PHASE 4	5 E (/30/0)	\$0 \$0 \$479,600
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* Design contin. (1) PD&E RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pro 33. (Lines 28 thi 34. Relocation S 35. Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:	plans - 1309 N CONSULT ISTS (PHASI Replacem Move Cos rm operty ru 32) Services Cos Gerald W. N/A Gerald W. Norris L. S equence #:	A (2) 30% plans - 12 ANT (PHASE 42)  E 45) ant Housing  ts  t  Springstead II  Springstead II  Smith  Dated: is one of the pond al	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed:	x x x x x x x asin	Number  0 0 40 40 40 1. The pond is to	= = = = = = = = = = = = = = = = = = =	Amount  0 0 30 30 hase Total) (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date: Date: Date: Date: Date:	5 E 1/30/0	\$0 \$479,600
* Design contin. (1) PD&E  RIW ACQUISITIO 27.  RELOCATION CO 28. Owner 29. Tenent 30. Residential 31. Business/Fa 32. Personal Pr 33. (Lines 28 th 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:	plans - 1309 ON CONSULT ISTS (PHASI Replacem Move Cos rm operty ru 32) Services Cos Gerald W. N/A Gerald W. Norris L. S equence #: Pond 2-4	ANT (PHASE 42)  45) ent Housing  ts  t  Springstead II Springstead II Smith Dated: is one of the pend al	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000	x x x x x x x asin	Number  0 0 40 40 40 1. The pond is to	= = = = = = = = = = = = = = = = = = =	Amount  0 0 30 30 hase Totall (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Dat	5 E 1/30/0	\$0 \$479,600
* Design contin. (1) PD&E  RIW ACQUISITIO 27.  RELOCATION CO 28. Owner 29. Tenent 30. Residential 31. Business/Fa 32. Personal Pr 33. (Lines 28 th 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:	plans - 1309 DN CONSULT ISTS (PHASI Replacem Move Cos rm operty ru 32) Services Cos Gerald W. N/A Gerald W. Norris L. S equence #: Pond 2-4 dicates the c Type A - in	ANT (PHASE 42)  E 45) ent Housing  ts  t  Springstead II Smith Dated:  is one of the pend al	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed: Signed: Online above enfidence	x x x x x x x asin	Number  0 0 40 40 40 1. The pond is to	= = = = = = = = = = = = = = = = = = =	Amount  0 0 40 40 Amount Control Specific All Phases	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date: Date: Total Phase 4	5 E 1/30/0	\$0 \$479,600 \$479,600
* Design contin, (1) PD&E RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenent 30. Residentiaf 31. Business/Fa 32. Personal Pre 33. (Lines 28 th 34. Relocation S 35. Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:	plans - 1309 DN CONSULT DN CONSUL	ANT (PHASE 42)  E 45) ant Housing  ts  t  Springstead II  Springstead II  mith  Dated:  is one of the pend al	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x x asin	Number  0 0 40 40 40 1. The pond is to	= = = = = = = = = = = = = = = = = = =	Amount  0 0 10 40 40 Ahase Total) (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date: Date: Total Estimat  Date: Date: Post Input Complet  Future Value Factor  Year One Year Two	5 E 1/30/0	\$0 \$479,600 \$479,600 1.1000 1.2100
* Design contin. (1) PD&E RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pro 33. (Lines 28 thi 34. Relocation S 35. Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:	plans - 1309 N CONSULT ISTS (PHAS) Replacem Move Cos rm Operty ru 32) Services Cos Gerald W. N/A Gerald W. Norris L. S equence #: Pond 2-4  dicates the c Type A - is Type B - is Type B - ir	ANT (PHASE 42)  E 45) ent Housing  ts  t  Springstead II Smith Dated:  is one of the pend al	\$20,000 \$10,000 \$10,000 \$20,000 \$20,000 \$2,000  Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x x asin	Number  0 0 40 40 40 1. The pond is to	= = = = = = = = = = = = = = = = = = =	Amount  0 0 30 430 hase Total) (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date: Date: Total Estimat  Date: Date: Date: Date: Date: Total Estimat  Date: Date: Date: Total Estimat  Date: Date: Date: Total Estimat  Date: Total Estimat  Tot	5 E 1/30/0	\$0 \$479,600 \$479,600 \$1,100 1,2100 1,2100 1,3310
* Design conting (1) PD&E RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pri 33. (Lines 28 th 34. Relocation S 35. Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:  The following in	plans - 1309 DN CONSULT ISTS (PHASI Replacem  Move Cos rm operty ru 32) Services Cos  Gerald W. N/A Gerald W. Norris L. S equence #:  Pond 2-4  dicates the c Type A - is Type B - is Type B - is	ANT (PHASE 42)  ANT (PHASE 42)  E 45)  ent Housing  ts  t  Springstead II  Springstead II  Smith  Dated:  is one of the pend all  estimator's confident dicates the most condicates the most condicates above avera dicates below avera dicates the least or	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed: Signed: Signed: oc in the above onlidence oge confidence on confidence on confidence	x x x x x x x assin	Number  0 0 40 40 40 1. The pond is to	= = = = = = = = = = = = = = = = = = =	Amount  0 0 30 30 hase Totall (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date: Date: Total Estimat  Date: Date: Post Input Complet  Future Value Factor  Year One Year Two	5 E 1/30/0	\$0 \$479,600 \$479,600 1.1000 1.2100
* Design contin, (1) PD&E RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenent 30. Residentiaf 31. Business/Fa 32. Personal Pre 33. (Lines 28 th 34. Relocation S 35. Appraisel: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:  The following in:  X	plans - 1309 DN CONSULT DN CONSUL	ANT (PHASE 42)  ANT (PHASE 42)  E 45)  ent Housing  ts  t  Springstead II  Springstead II  Smith  Dated:  is one of the pend all  estimator's confident dicates the most condicates the most condicates above avera dicates below avera dicates the least or	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed: Signed: Signed: oc in the above onlidence oge confidence on confidence on confidence	x x x x x x x assin	Number  0 0 40 40 40 1. The pond is to	= = = = = = = = = = = = = = = = = = =	Amount  0 0 30 30 hase Totall (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date: Total Phase 4	5 E 1/30/0	\$0 \$479,600 \$479,600 1.100 1.2100 1.3310 1.4641
* Design conting (1) PD&E RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pri 33. (Lines 28 th 34. Relocation S 35. Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:  The following in	plans - 1309 DN CONSULT DN CONSUL	ts  Springstead II Springstead II Springstead II Springstead II Springstead II Smith Dated: is one of the pend al dicates the most co dicates above avera	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed: Signed: Signed: oc in the above onlidence oge confidence on confidence on confidence	x x x x x x x x x x assin	Number  0 0 40 40 40 1. The pond is to	Not in P	Amount  0 0 30 30 hase Totall (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date: Total Phase 4	5 E 1/30/0	\$0 \$479,600 \$479,600 1,1000 1,2100 1,3310 1,4641 1,6105

RIW LAND COSTS (PHASE 43)   13. Land, Improvements & Severance Damages and Cost to Cure Amount   0 x   130%   Design plan stage   220,000   14. Water Retention & Mit.   169,256   x   130% (0 Parcels w)o RIW Acq)   15. SUBTOTAL   (Lines 13 & 14)   220,000   16. Admin. Settlements (Factor   45%   x   30% of Line 15)   229,700   17. Litigation Awards   Factor   60%   x   70% of Line 15)   92,400   17. Litigation Awards   Factor   60%   x   70% of Line 15)   92,400   17. Litigation Awards   Factor   25%   x   40     0   0   0   0   0   0   0   0			AY COST ESTIMATE	PBS&J#	* 7001103.30 5
Country   Pasco   Factor   F	rormar wystr:			D:-+-:-	
State Ric					
Farcels   Gross   Met   Commercial   Business   Business   Gross   Met   Commercial   A   A   A   Commercial   Business   Gross   Business   Gross	Alternata:	POND 2-6			
Commercial   0   0   0   0   0   0   0   0   0	CR54, One Way Pair	s Using 6th St & U	S301.   Fetimated Ro	incetooc.	
Unimproved   0   0   0   0   0   0   0   0   0				sucateus.	0
Total Parcels			Residential	<del></del>	
Total Parcels					0
RIVE SUPPORT COSTS (PHASE 41)   1. Direct Labor Cost   Parcels   4 x   0 - Pate)					<u>-1</u>
Direct Labor Cost   Parcels			Trotal tiblocat		
2. Indirect Overhead	4 "	12.000 _	Date)		
RIV OPS (PHASE 48)	***************************************				
A Spiritus Fore Through Trial	^ ^		110101		
4. Appraisal Feet Through Trial   4					
S. Business Damage CPA Fees Through Trial   0   Claims   19,000   0   1,500			4 Parcels		000
7. Export Witness   75%			0 Claims		
8. Medicitares   50% x   4   2   Parcels   2,400   4,500   4,500   10. Miscellaneous Contracts   1   Per Project   x   15,000   - 15,000   15,000   10. Miscellaneous Contracts   1   Per Project   x   5,000   0   15,000   10. Miscellaneous Contracts   1   Per Project   x   5,000   0   15,000   10. Miscellaneous Contracts   1   Per Project   x   5,000   0   10. Miscellaneous Contracts   1   Per Project   x   5,000   0   10. Miscellaneous Contracts   1   Per Project   x   5,000   0   10. Miscellaneous Contracts   1   Per Project   x   5,000   0   10. Miscellaneous   10. Miscellaneous   1   Per Project   x   5,000   0   10. Miscellaneous   10. Miscellaneous   1   Per Project   x   5,000   0   10. Miscellaneous   2   Percelaneous		4 =			
3		<u>4</u> *			
10. Miscollaneous Contracts   1	50% X	<u> </u>			
11. Appraisal Fee Review   N/A Parcels   TOTAL PHASE 48     12.   R/W LAND COSTS (PHASE 43)   Amount   Subtotal     13. Land, Improvements & Severance Damages and Cest to Cure Amount   169,250   x   130% * Design plan stage   0     14. Water Rotention & Mit.   169,250   x   130% * O Parcels wio R/W Acq   220,000     15. SUBTOTAL   (Illines 13 & 14)   220,000     15. Admin. Sattlements (Factor   45%   x   30% of Line 15)   29,700     17. Litigation Awards (Factor   60%   x   70% of Line 15)   93,400     18. Business Damages (Claims   0   x   30   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0   0   0   0   0     19. Bus. Damages Incrs. (Factor   25%   x   50   0   0   0   0   0   0   0   0					
12.					
RIW LAND COSTS (PHASE 43)					\$
13. Land, Improvements & Severance Damages and Cost to Cure Amount   6   x   130%   Design plan stage   0   220,000					
Add Cost to Cure Amount				AMOUNT DUCKO(8)	
14. Water Retention & Mit.   169,250 x   130% (0 Parcels win RIW Acq)   220,000	U A	130% *	Dasian alan staaa	<b>=</b> 0	
15. SUBTOTAL	***************************************				
16. Admin. Sattlements   Factor   45%   x   30% of Line 15    29.700     17. Litigation Awards   Factor   60%   x   70% of Line 15    92.400     18. Business Damages   0   x   30     0   0     19. Bus. Damages Incrs.   Factor   25%   x   40     0     20. Owner Appr. Fees   Percels   3   x   \$10.000     0     20. Owner Appr. Fees   Percels   3   x   \$10.000     0     21. Owner CPA Fees   Claims   0   x   \$10.000     0     22. Delend.Atty Fees   Sum of Lines 16.17&   122.100   x   40%     x   48.800     23. Owner Export Witnes (Comm.+Unimproved)   0   +   0   18.000     2.000     24. Other Condemn. Costs   4   x   \$500     2.000     25. SUBTOTAL     100.000     100.000     100.000     26.					000
17. Litigation Awards   Factor   60% x   70% of Line   15)   92,400     18. Business Damages   Claims   0 x   30   0     19. Bus. Damages Incrs.   Factor   225% x   40   0     20. Owner Appr. Fees   (Parcels   3 x   310,000   0     21. Owner CPA Fees   (Claims   0 x   310,000   0     22. Defend.Atty Fees   (Claims   0 x   310,000   0     23. Owner Expert Witnes (Comm. + Unimproved)   0 + 0   1     24. Other Condemn. Costs   4 x   \$500   0     25. SUBTOTAL   20.   (Lines 16 thru 24)   20.     26. ** 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 Dato - 110%     27. RIW ACQUISITION CONSULTANT (PHASE 42)   27.   (1) PD&E plans - 130% (2) 30% plans - 125% (3) 60% plans - 120% (4) 90% plans - 115% (5) 268 Dato - 110%     28. Owner   220,000   x   3   60,000     29. Tenent   \$10,000   x   0   0     30. Residential   \$1,500   x   3   4,500     31. Businessiferam   \$20,000   x   0   0     32. Personal Property   \$1,000   x   0   0     33. (Lines 28 thru 32)   (All Phase 545)     34. Relocation Services Cost   \$6,550   (Not in Phase Total)     35.   (All Phases)   (All Phases)   (All Phases)     4. Data   (All Phases)   (All Phases)   (All Phases)     5. Data   (All Phases)   (All Phases)   (All Phases)   (All Phases)     5. Data   (All Phases)   (A	45% x				********
19. Bus. Dameges Incrs.   Factor   25%   x   10		70% of	Line 15)		
20. Owner Appr. Fees   Parcels   3 x   \$10,000     30,000	x	\$0 )		= <u>0</u>	
21. Owner CPA Fees   Claims   0   x   \$10,000	25% x	\$0 )		= 0	
22. Defand.Atty Fees (Sum of Lines 16,17&: 122,100 x 40%)	3 x	\$10,000 )		= 30,000	
23. Owner Expert Witnes (Comm.+Unimproved)	0 x	\$10,000 )		= 0	
24. Other Condemn. Costs	. 122,100 x	40% )		<b>≈</b> 48,800	
25. SUBTOTAL 26. **Design contingency for design plan stage: (1) PORE plans - 130% (2) 30% plans - 125% (3) 60% plans - 120% (4) 90% plans - 115% (5) 258 Date - 110%  R[W ACQUISITION CONSULTANT (PHASE 42) 27. **TOTAL PHASE 45  **Replacement Housing	0 +	0);	18,000	<b>™</b> 0	
26.	4 x	\$500		= 2,000	
**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%  R[W ACQUISITION CONSULTANT (PHASE 42)  27.			(Lines 16 thru 24)		
### ACQUISITION CONSULTANT (PHASE 42)  27.   TOTAL PHASE 42   27.   TOTAL PHASE 42   27.   TOTAL PHASE 42   28.   Dwner   \$20,000   x   3   = 60,000    29.   Tenant   \$10,000   x   0   = 0      Move Costs   \$1,500   x   3   = 4,500    31.   Business/Farm   \$20,000   x   0   = 0    32.   Personal Property   \$2,000   x   1   = \$2,000    33.   Lines 28 thru 32    34.   Relocation Services Cost   \$6,650   (Not in Phase Total)    35.   Appraisel:   Gerald W. Springstead    Signed:   Bus. Dam. :   M A				TOTAL PHASE 43	
RIW ACQUISITION CONSULTANT (PHASE 42)   27.	75V (2) 60V -1	1208/ (4) 008/ m/s	#4EW (E) DED D-4-	4404/	
TOTAL PHASE 42   TOTAL PHASE 42   TOTAL PHASE 42	.371 (37 0071 pians ·	120% (4) SUN PIB	NS -1 1070 (0) ZOB UBIO	1 + 1   071	
RELOCATION COSTS (PHASE 45)					
Replacement Housing	<del>, , , , , , , , , , , , , , , , , , , </del>			TUTAL PHASE 42	
28. Dwner					
29. Tenant \$10.000 x 0 = 0  Move Costs  30. Residential \$1,500 x 3 = 4,500  31. Business/Farm \$20,000 x 0 = 0  32. Personal Property \$2,000 x 1 = \$2,000  33. (Lines 28 thru 32)  34. Relocation Services Cost \$6,650 (Not in Phase Total)  35. (All Phases)   TOTAL PHASE 45    Appraisel: Gerald W. Springstead    Signed:    Bus. Dam.: N/A Signed:    Relocation: Gerald W. Springstead    Signed:    Date:    Cost Estimate Sequence #: Date:    Date:		_			
Move Costs   30. Residential   \$1,500 x   3   = 4,500       31. Business/Farm   \$20,000 x   0   = 0   0     32. Personal Property   \$2,000 x   1   = \$2,000     33. (Lines 28 thru 32)                     34. Relocation Services Cost   \$6,650 (Not in Phase Total)     35.					
30. Residential	\$10,000 x	0	<b>=</b> 0		
31. Business/Farm \$20,000 x 0 = 0 32. Personal Property \$2,000 x 1 = \$2,000 33. (Lines 28 thru 32) TOTAL PHASE 45  34. Relocation Services Cost \$6,650 (Not in Phase Total)  35. (All Phases) TOTAL ESTIMATE  Appraisal: Gerald W. Springstead II Signed: Bus. Dam.: N/A Signed: Gerald W. Springstead II Signed: Date: 1/30/0/ Relocation: Gerald W. Springstead II Signed: Date: 1/30/0/ Coverall Review: Norris L. Smith Signed: Date: 1/30/0/  Cost Estimate Sequence #: Date: In the Amount of \$100 Date: 1/30/0/  Date In the Amount of \$100 Dat					
32. Personal Property   \$2,000 x   1	44 500				
33. (Lines 28 thru 32)  34. Relocation Services Cost  35. (All Phases)   TOTAL ESTIMATE    Appraisal: Gerald W. Springstead II   Signed: Date:   L/D/O/    Bus. Dam.: N/A   Signed: Date:   Date:   L/D/O/    Relocation: Gerald W. Springstead II   Signed: Date:   L/D/O/    Relocation: Gerald W. Springstead II   Signed: Date:   L/D/O/    Cost Estimate Sequence #: Dated: In the Amount of \$ Date Input Completion Date:					
34. Relocation Services Cost \$6,650 (Not in Phase Total)  35. (All Phases)   TOTAL ESTIMATE    Appraisel: Gerald W. Springstead II   Signed: Date:   L/D/O/ Date:    Relocation: Gerald W. Springstead II   Signed: Date:   L/D/O/ Date:    Relocation: Gerald W. Springstead II   Signed: Date:   L/D/O/ Date:    Cost Estimate Sequence #: Dated: In the Amount of \$ Date Input Completion Date:	\$20,000 x	0	es 0		
35. (All Phases) TOTAL ESTIMATE  Appraisal: Gerald W. Springstead II Signed: Date: L /10/0/ Date: Date: Corald W. Springstead II Signed: Date: L /3 0/0 Date: Corald W. Springstead II Signed: Date: L /3 0/0 Date: Cost Estimate Sequence #: Date: Da	\$20,000 x	0	es 0	<u> </u>	
Appraisel: Gerald W. Springstead II Signed: Date: L/D/O/ Bus. Dam.: N/A Signed: Date: Date: L/30/0/ Relocation: Gerald W. Springstead II Signed: Date: L/30/0/ Overall Review: Norris L. Smith Signed: Date: L/30/0/ Cost Estimate Sequence #: Dated: In the Amount of \$ Date Input Completion Date:	\$20,000 x	<u>0</u>	± \$2,0B0	TOTAL PHASE 45	
Appraisal: Gerald W. Springstead II Signed: Date: L/D/O/ Bus. Dam.: N/A Signed: Date:	\$20,000 x	<u>0</u>	± \$2,0B0	TOTAL PHASE 45	
Bus. Dam.: N/A Signed: Relocation: Gerald W. Springstead II Signed: Overall Review: Norris L. Smith Signed:  Cost Estimate Sequence #: Dated: In the Amount of \$ Date Input Completion Date:	\$20,000 x	<u>0</u>			
Relocation: Gerald W. Springstead II Signed: Date: 1/30/01 Dverall Review: Norris L. Smith Signed: Date: 1/30/01 D	\$20,000 x \$2,000 x	0 1 \$6,650		TOTAL ESTIMATE	
Overall Review: Norris L. Smith Signed: Date:  Cost Estimate Sequence #: Dated: In the Amount of \$ Date Input Completion Date:	\$20,000 x \$2,000 x Signed:	0 1 \$6,650		TOTAL ESTIMATE  Date: L (10)	\$ /0
Cost Estimate Sequence #: Dated: In the Amount of \$ Date Input Completion Date:	\$20,000 x \$2,000 x Signed:	1 \$6,650		TOTAL ESTIMATE  Date: 1 / 30 Date:	/0/
The state of the s	\$20,000 x \$2,000 x Signed: Signed: Signed:	1 \$6,650		Date: 1/3	/0/ 2/0]
	\$20,000 x \$2,000 x \$3,000 x Signed: Signed: Signed: Signed:	\$6.550	# 0 \$2,080 (Not in Phase Total) (All Phases)	Date: 1/30 Date: 1/30 Date: 1/30	/0/ 2/0]
30. Residential 31. Business/Farm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost 35.  Appraisal: Bus. Dam.: Relocation: Gerald W. Springstead II N/A Gerald W. Springstead II Norris L. Smith Cost Estimate Sequence #: Dated:		75% x 75% x	A x   13,000	Estimated Re Business   Residential   Signs   Special   Total Relocal	Estimated Relocatees: Business   Residential   Signs   Special   Total Relocatees:

					ARTMENT OF					
				SEV	EN RIGHT OF W	AY COST	ESTIMATE		PBS&J#:	700103.30 5023
FM#:	256422	.1	Former WPI#: FAP No.:		N/A 1455-001-U			District: Date:		Seven 30-Jan-01
County: State Rd.:	Pasco 41		FAP No.: Alternate:		POND 2-7			C.E. Sequence		NIA
Project Dos.	SR 41 {	US 301) from SR39 to (		airs		JS301.	12			
Parcels	Gross	Net	-				Estimated Re Business	locatees:	0	
Commercial Residential	<u>u</u>	ļ <u> </u>					Residential		50	
Unimproved	<u>·</u>	Ö					Signs		0	
· ·		<u> </u>					Special		0 50	
Total Parcels	1	1					Total Relocat		30	
RIW SUPPORT C					42.000	Pasal		Amount		
1. Direct Labor (		(Parcels		X	13,000			13,000		
2. Indirect Over	head	(Parcels		X		« 1/2(0)		TOTAL PHASE 4		\$13,000
3.	- 401							HOIME FRANCE	Amount	¥10,400
R/W OPS (PHASE 4. Appraisal Fe		nh Trial				. 1	Parcels	x 12,000 •		
		A Fees Through Trial				Ċ	Claims	x 19,000 =	- 0	
6. Court Report	ter & Pro		75%	X	1	- 1	Parcels	x 500 •		
7. Expert Witne	229		75%	X	1	<b>-</b> 1	Parcels	x 30,000 •		
8. Mediators 9. Demolition,	Ark Ahat	ta., Survey, etc.	50%	x		= 1 3	Parcels Impremat	x 2,400 = x 15,000 =		
10. Miscellaneou						i	Per Project			
11. Appraisal Fe						NIA	Parcels	x 5,000 ±	•	
12.								TOTAL PHASE	4B	<b>\$104,900</b>
R/W LAND COST:	S (PHASE	43)			···			Amount	Subtotal	
		& Severance Damages								
and Cost to			<u>C</u>	X		Design p		= 0		
14. Water Reten	ntion & M	it.	605,680	X	130%		wio RIW Acq)	787,400	707 407	
15. SUBTOTAL					ne.	(Lines 13	8 & 14)		787,460	
16. Admin. Settl		(Factor	45%	X		of Line 15)		* U		
17. Litigation Av		(Factor	60%	X	100%	of Line 15)		= 472,400 = 0		
18. Business Da 19. Bus. Damage	•	(Claims	25%	x	\$0 I			= <u> </u>		
20. Owner Appr.		(Parcels	1	x	\$10,000			± 10,000		
21. Owner CPA		(Claims	<u>-</u>	x	\$10,000			<u> </u>	-	
22. Defend.Atty		(Sum of Lines 16,17&		x	40%			= 189,000		
1		(Comm. + Unimproved)		+		18,000	I	= 0		
24. Other Conde			1	x	\$500		•	<del>=</del> 500		
25. SUBTOTAL						(Lines 16	thru 24)	tz	671,900	
26.								CVOTAL MILLOR		41 450 300
								TOTAL PHASE	43	\$1,459,300
* Design conting	gency for	design plan stage:	76M. (7) 6A% nigi	40.	120W IAI 90W n.	lanc . 1 15%	- /51 268 Bata		43	¥1,435,300
* Design conting (1) PD&E p	plans - 13	10% (2) 30% plans - 12	75% (3) 60% plai	ns -	120% (4) 90% p.	ans -115%	(5) 268 Date		43	¥1,433,380
* Design conting (1) PD&E ; R/W ACQUISITIO	plans - 13	design plan stage: 10% (2) 30% plans - 12 JLTANT (PHASE 42)	75% (3) 60% ple.	ns -	120% (4) 90% p.	ans -115%	(5) 268 Date	-110%		
* Design conting (1) PD&E p R/W ACQUISITIO 27.	<i>plans - 13</i> DN CONSU	10% <i>(2) 30% plans - 12</i> JLTANT (PHASE 42)	75% (3) 60% ple.	ns -	120% (4) 90% p.	lans -115%	(5) 268 Date			\$1,495,300
* Design conting (1) PD&E p R/W ACQUISITIO 27. RELOCATION CO	<i>pians - 13</i> DN CONSU DSTS (PH <i>i</i>	90% <i>(2) 30% plans - 12</i> Jltant (Phase 42) Ase 45)	75% (3) 60% pla	ns ·		lans -115%		-110%		
* Design conting (1) PD&E RIW ACQUISITIO 27. RELOCATION CO	<i>pians - 13</i> DN CONSU DSTS (PH <i>i</i>	10% <i>(2) 30% plans - 12</i> JLTANT (PHASE 42)			Number		Amount	-110%		
Posign conting (1) PD&E RIW ACQUISITIO 27. RELOCATION CO 28. Owner	<i>pians - 13</i> DN CONSU DSTS (PH <i>i</i>	90% <i>(2) 30% plans - 12</i> Jltant (Phase 42) Ase 45)	\$20,000	x	Number 0	ans -115%	Amount 0	-110%		
* Design conting (1) PD&E RIW ACQUISITIO 27. RELOCATION CO	<i>pians · 13</i> DN CONSU DSTS (PHA Replace	10% (2) 30% plans - 12 JLTANT (PHASE 42) ASE 45) ement Housing			Number		Amount	-110%		
Design conting (1) PD&E s RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant	plans - 13 DN CONSU  DSTS (PH/ Replace  Move C	10% (2) 30% plans - 12 JLTANT (PHASE 42) ASE 45) ement Housing	\$20,000 \$10,000	x x	Number 0 50		Amount 0 508,000	-110%		
Design conting (1) PD&F p  RIW ACQUISITIO  27.  RELOCATION CO  28. Owner  29. Tenant  30. Residential	plans - 13 DN CONSU DSTS (PH/ Replace Move C	10% (2) 30% plans - 12 JLTANT (PHASE 42) ASE 45) ement Housing	\$20,000 \$10,000 \$1,500	x	Number 0	जर देव	Amount 0	-110%		
* Design conting (1) PD&F p  R/W ACQUISITIO 27.  RELOCATION CO  28. Owner 29. Tenant  30. Residential 31. Business/Fai	plans - 13 DN CONSE DSTS (PHA Replace Move C	10% (2) 30% plans - 12 JLTANT (PHASE 42) ASE 45) ement Housing	\$20,000 \$10,000 \$1,500 \$20,000	х х х	Number 0 50 50	कर 100 340	Amount 0 500,000 75,000	-110%		
* Design conting (1) PD&F p  RIW ACQUISITIO 27.  RELOCATION CO 28. Owner 29. Tenant 30. Residential	plans - 13 DN CONSE  DSTS (PHA  Replace  Move Const	10% (2) 30% plans - 12 JLTANT (PHASE 42) ASE 45) ement Housing	\$20,000 \$10,000 \$1,500	x x	Number 0 50 50 0	कर 100 340	Amount 0 500,000 75,000 0	-110%	42	
* Design conting (1) PD&E R W ACQUISITIO 27. RELOCATION CO. 28. Owner 29. Tenant 30. Residential 31. Business[Fai 32. Personal Pro	plans - 13 DN CONSE  DSTS (PH/ Replace  Move Construction  irm operty  iru 32)	10% (2) 30% plans - 12 JLTANT (PHASE 42) ASE 45) ement Housing	\$20,000 \$10,000 \$1,500 \$20,000	х х х	Number 0 50 50 0	*** *** *** ***	Amount 0 500,000 75,000 0	110%	42	\$8
* Design conting (1) PD&F p RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business[Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S	plans - 13 DN CONSE  DSTS (PH/ Replace  Move Construction  irm operty  iru 32)	10% (2) 30% plans - 12 JLTANT (PHASE 42) ASE 45) ement Housing	\$20,000 \$10,000 \$1,500 \$20,000	х х х	Number 0 50 50 0 0	*** *** *** ***	Amount 0 509,000 75,000 0 \$0 \$10 thase Total)	TOTAL PHASE	45	\$575,000
* Design conting (1) PD&F p RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business[fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.	plans - 13 DN CONSU DSTS (PH/ Replace  Move Control operty oru 32) Services C	10% (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45)  ement Housing  Costs	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000	х х х	Number 0 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	*** *** *** ***	Amount 0 508,000 75,000 0 \$0	TOTAL PHASE	42 45 11	\$575,000 \$2,152,200
* Design conting (1) PD&F p R/W ACQUISITIO 27.  RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal:	pleas 13 ON CONSE OSTS (PHA Replace Move Corm operty operty oru 32) Services C	10% (2) 30% plans - 12 JLTANT (PHASE 42) ASE 45) ement Housing	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000	х х х	Number 0 50 50 0 0	*** *** *** ***	Amount 0 509,000 75,000 0 \$0 \$10 thase Total)	TOTAL PHASE	45	\$575,000 \$2,152,200
* Design conting (1) PD&F R W ACQUISITIO 27.  RELOCATION CO. 28. Owner 29. Tenant 30. Residential 31. Business[Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam. :	pleas - 13 ON CONSUIDERS (PHA Replace Move Court operty oru 32) Services E Gerald NIA	10% (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45)  ement Housing  Costs  Cost  W. Springstead II	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed:	х х х	Number 0 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	*** *** *** ***	Amount 0 509,000 75,000 0 \$0 \$10 thase Total)	TOTAL PHASE A  TOTAL PHASE A  TOTAL ESTIMA  Date: Date:	45 YE \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$575,000 \$2,152,200 \$2,152,200
* Design conting (1) PD&F p R/W ACQUISITIO 27.  RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal:	pleas 13 ON CONSE ON CONSE ON CONSE ON CONSE Move C Arm operty oru 32 Services C Gerald NIA Gerald	10% (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45) ement Housing  Costs  W. Springstead II  W. Springstead II	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000	х х х	Number 0 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	*** *** *** ***	Amount 0 509,000 75,000 0 \$0 \$10 thase Total)	TOTAL PHASE	45 TE 1/30/6	\$575,000 \$2,152,200 \$2,152,200
* Design conting (1) PD&F p R/W ACQUISITIO 27.  RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam. : Relocation: Overall Review:	pleas 13 ON CONSUITE Replace  Move Corm operty operty oru 32 Services Corn Gerald NIA Gerald Norris	10% (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45) ement Housing  Costs  W. Springstead II U. Smith	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed:	X X X X	Number 0 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	*** *** *** ***	Amount 0 500,000 75,000 0 \$0 \$10 (All Phases)	TOTAL PHASE A  TOTAL PHASE A  TOTAL ESTIMA  Date: Date: Date: Date:	45 TE 1/30/6	\$575,000 \$2,152,200 \$2,152,200
* Design conting (1) PD&F p R/W ACQUISITIO 27.  RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	pleas 13 ON CONSUITE Replace  Move Corm operty operty oru 32 Services Corn Gerald NIA Gerald Norris	10% (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45) ement Housing  Costs  W. Springstead II U. Smith	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed:	X X X X	Number 0 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	*** *** *** ***	Amount 0 500,000 75,000 0 \$0 \$10 (All Phases)	TOTAL PHASE	45 TE 1/30/6	\$575,000 \$2,152,200 \$2,152,200
* Design conting (1) PD&F p R/W ACQUISITIO 27.  RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam. : Relocation: Overall Review:	pleas - 13 DN CONSU DSTS (PHA Replace Move C  arm operty iru 32) Services C  Gerald N/A Gerald Norris equance A	IOW (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45)  ement Housing  Costs  W. Springstead II  W. Springstead II  L. Smith  The Cost of the	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed:	x x x x	### Number	*** *** *** ***	Amount 0 500,000 75,000 0 \$0 \$10 (All Phases)	TOTAL PHASE A  TOTAL PHASE A  TOTAL ESTIMA  Date: Date: Date: Date:	45 TE 1/30/6	\$575,000 \$2,152,200 \$2,152,200
* Design conting (1) PD&F p R/W ACQUISITIO 27.  RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	pleas - 13 DN CONSU DSTS (PHA Replace Move C  arm operty iru 32) Services C  Gerald N/A Gerald Norris equance A	10% (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45) ement Housing  Costs  W. Springstead II U. Smith	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed:	x x x x	### Number	*** *** *** ***	Amount 0 500,000 75,000 0 \$0 \$10 (All Phases)	TOTAL PHASE A  TOTAL PHASE A  TOTAL ESTIMA  Date: Date: Date: Date:	45 TE 1/30/6	\$575,000 \$2,152,200 \$2,152,200
* Design conting (1) PD&F p  R/W ACQUISITIO 27.  RELOCATION CO  28. Owner 29. Tenant  30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S  35.  Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	pleas - 13 DN CONSU DSTS (PHA Replace Move C  arm operty iru 32) Services C  Gerald N/A Gerald Norris equance A	IOW (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45)  ement Housing  Costs  W. Springstead II  W. Springstead II  L. Smith  The Cost of the	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed:	x x x x	### Number	*** *** *** ***	Amount 0 500,000 75,000 0 \$0 \$10 (All Phases)	TOTAL PHASE A  TOTAL PHASE A  TOTAL ESTIMA  Date: Date: Date: Date:	45 TE 1/30/6	\$575,000 \$2,152,200 \$2,152,200
* Design conting (1) PD&F p  R/W ACQUISITIO 27.  RELOCATION CO  28. Owner 29. Tenant  30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S  35.  Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	pleas - 13 DN CONSU DSTS (PHA Replace Move C  arm operty iru 32) Services C  Gerald N/A Gerald Norris equance A	IOW (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45)  ement Housing  Costs  W. Springstead II  W. Springstead II  L. Smith  The Cost of the	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed:	x x x x	### Number	*** *** *** ***	Amount 0 500,000 75,000 0 \$0 \$10 (All Phases)	TOTAL PHASE A  TOTAL PHASE A  TOTAL ESTIMA  Date: Date: Date: Date:	45 TE 1/30/6	\$575,000 \$2,152,200 \$2,152,200
* Design conting (1) PD&F p R/W ACQUISITIO 27.  RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	pleas - 13 DN CONSU DSTS (PHA Replace Move C  arm operty iru 32) Services C  Gerald N/A Gerald Norris equance A	IOW (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45)  ement Housing  Costs  W. Springstead II  W. Springstead II  L. Smith  The Cost of the	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed:	x x x x	### Number	*** *** *** ***	Amount 0 500,000 75,000 0 \$0 \$10 (All Phases)	TOTAL PHASE A  TOTAL PHASE A  TOTAL ESTIMA  Date: Date: Date: Date:	45 TE 1/30/6	\$575,000 \$2,152,200 \$2,152,200
* Design conting (1) PD&F p R/W ACQUISITIO 27.  RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	pleas - 13 DN CONSU DSTS (PHA Replace Move C  arm operty iru 32) Services C  Gerald N/A Gerald Norris equance A	IOW (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45)  ement Housing  Costs  W. Springstead II  W. Springstead II  L. Smith  The Cost of the	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed:	x x x x	### Number	*** *** *** ***	Amount 0 500,000 75,000 0 \$0 \$10 (All Phases)	TOTAL PHASE A  TOTAL PHASE A  TOTAL ESTIMA  Date: Date: Date: Date:	45 TE 1/30/6	\$575,000 \$2,152,200 \$2,152,200
* Design conting (1) PD&F p R/W ACQUISITIO 27.  RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	pleas - 13 DN CONSU DSTS (PHA Replace Move C  arm operty iru 32) Services C  Gerald N/A Gerald Norris equance A	IOW (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45)  ement Housing  Costs  W. Springstead II  W. Springstead II  L. Smith  The Cost of the	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed:	x x x x	### Number	*** *** *** ***	Amount 0 500,000 75,000 0 \$0 \$10 (All Phases)	TOTAL PHASE A  TOTAL PHASE A  TOTAL ESTIMA  Date: Date: Date: Date:	45 TE 1/30/6	\$575,000 \$2,152,200 \$2,152,200
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* Design conting (1) PD&E s RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business[fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se REMARKS:	pleas 13 ON CONSE ON	IDW (2) 30% plans - 12  JLTANT (PHASE 42)  ASE 45)  ement Housing  Costs  W. Springstead II  W. Springstead II  T. Smith  T. Dated:  '7 is one of the pond all  the estimator's confident	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed:	x x x x	Number   0   50   50   0   0   0   0   0   0	*** *** *** ***	Amount 0 500,000 75,000 0 30 (All Phases)	TOTAL PHASE :  TOTAL PHASE :  TOTAL ESTIMA  Date: Date: Date: Date: Date: Date: Date:	45 TE 1/30/0 (/30/0	\$575,000 \$2,152,200 \$2,152,200
* Design conting (1) PD&E s RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business[Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se REMARKS:	pleas 13 ON CONSE ON	ICY (2) 30% plans - 12  JETANT (PHASE 42)  ASE 45)  ement Housing  Costs  W. Springstead II  W. Springstead II  L. Smith  : Dated:  -7 is one of the pond al	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x	Number   0   50   50   0   0   0   0   0   0	*** *** *** ***	Amount 0 508,000 75,000 0 \$0 (All Phases)	TOTAL PHASE ( TOTAL PHASE ( TOTAL ESTIMA Date: Date: Date: Date: Date: Total Phase ( T	45 TE 1/30/0 (/30/0	\$575,000 \$2,152,200 \$2,152,200 \$2,152,200
* Design conting (1) PD&F p R/W ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se REMARKS:	pleas 13 ON CONSE ON	ICS (2) 30% plans - 12  JETANT (PHASE 42)  ASE 45)  ement Housing  Costs  W. Springstead II  W. Springstead II  L. Smith  T: Dated:  -7 is one of the pond all  indicates the most co- indicates the most co- indicates above avera	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x	Number   0   50   50   0   0   0   0   0   0	*** *** *** ***	Amount 0 500,000 75,000 0 \$0 (All Phases)	TOTAL PHASE A  TOTAL PHASE A  TOTAL ESTIMA  Date: Date: Date: Date: Date: Date: Total Phase A  Future Value Fact Year One Year Two	45 TE 1/30/0 (/30/0	\$575,000 \$2,152,200 2/ 1,1000 1,2100
* Design conting (1) PD&E s RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business[Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se REMARKS:	pleas 13 ON CONSE ON	ICY (2) 30% plans - 12  JETANT (PHASE 42)  ASE 45)  ement Housing  Costs  W. Springstead II  W. Springstead II  L. Smith  : Dated:  -7 is one of the pond al	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 Signed:	x x x x	Number   0   50   50   0   0   0   0   0   0	*** *** *** ***	Amount 0 508,000 75,000 0 \$0 (All Phases)	TOTAL PHASE ( TOTAL PHASE ( TOTAL ESTIMA Date: Date: Date: Date: Date: Total Phase ( T	45 TE 1/30/0 (/30/0	\$575,000 \$2,152,200 \$2,152,200 \$2,152,200
* Design conting (1) PD&E p RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business[Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se REMARKS:  The following in:  X	pleas 13 DN CONSE DSTS (PHA Replace Move Correct Operty Iru 32) Services Correct Gerald Norris Gerald Norris Apond 2 Pond 2 Type A Type B Type C	ICS (2) 30% plans - 12  JETANT (PHASE 42)  ASE 45)  ement Housing  Costs  W. Springstead II  W. Springstead II  L. Smith  T: Dated:  -7 is one of the pond at  the estimator's confidential indicates the most confidential indicates below averatindicates below averatindicates the least or	\$20,000 \$10,000 \$1,500 \$2,000 \$2,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed: Signed: Signed: or of the above endidence age confidence age confidence are confidence are confidence	x x x x x x x asin	Number   0   50   50   0   0   0   0   0   0	*** *** *** ***	Amount 0 509,000 75,000 0 \$0 (All Phases)	TOTAL PHASE A  TOTAL PHASE A  TOTAL ESTIMA  Date: Date: Date: Date: Date: Total Phase A  Total P	45 TE 1/30/0 (/30/0	\$575,000 \$2,152,200 \$2,152,200 1.1000 1.2100 1.3310
* Design conting (1) PD&E p RIW ACQUISITIO 27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business[Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se REMARKS:  The following in:  X	pleas 13 DN CONSE DSTS (PHA Replace Move C from operty ru 32) Services C Gerald NIA Gerald NOTIS Requence A Type A Type B Type C Type D	ICH (2) 30% plans - 12  JETANT (PHASE 42)  ASE 45)  ement Housing  Costs  Cost  W. Springstead II  W. Springstead II  Smith  The Dated:  -7 is one of the pond all  he estimator's confidention indicates the most continuous above averatindicates below averating the properties averating th	\$20,000 \$10,000 \$1,500 \$2,000 \$2,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed: Signed: Signed: or of the above endidence age confidence age confidence are confidence are confidence	x x x x x x x x assin	Number   0   50   50   0   0   0   0   0   0	(Not in F	Amount 0 509,000 75,000 0 \$0 (All Phases)	TOTAL PHASE A  TOTAL PHASE A  TOTAL ESTIMA  Date: Date: Date: Date: Date: Par One Year Two Year Two Year Two Year Four	45 TE 1/30/0 (/30/0	\$575,000 \$2,152,200 2 1.1000 1.2100 1.3310 1.4641 1.6105

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					ARTMENT OF				PBS&J#:	700103.30 5023
FM#:	256422	1	DISTRICT S	έVE	N RIGHT OF W	AT CUST	ESTIMATE	District:	rbada#;	Seven
rm#: County:	Pasco	•	FAP No.:		1455-001-U			Date:		30-Jan-01
State Rd.:	41	U0.004) 4	Alternate:		POND 2-8A	10201		C.E. Sequence		NIA
Project Des. Perceis	Gross	US 301) from SR39 to   Net	CR54, UNB Way r	811.2	using our steet	13301.	Estimated Re	locatees:		
Commercial	0	0					Business		<u>0</u>	
Residential Unimproved	11	11					Residential Signs		- 13	
01313111970400		<del></del>					Special		0	
Total Parcels	11	11					Total Relocat		11	
RIW SUPPORT C			44		13,000 •	- Rate		Amount 143,080		
1. Direct Labor 2. Indirect Over		(Parcels (Parcels	11	X X	13,000 *			145,660		
3.	.,,,,,,,	11 010013						TOTAL PHASE 4	1	\$143,00
R/W OPS (PHAS									Amount	
4. Appraisal Fe						11 0	Percels Claims	x 12,000 = x 19,000 =		
6. Court Repor		A Fees Through Trial cess Servers	75%	X	11 -	. 8		x 500 =		
7. Expert Witn			75%	x	11 .	* 8	Parceis	x 30,000 =		
8. Mediators 9. Demolition,	Ach Ahat	o Survey etc	50%	X	11:	≖ 6 11	Parcels Impremet	x 2,400 × x 15,000 •		
10. Miscellaneo	ous Contra	cts				1	Per Project	x 15,000 •	15,000	
11. Appraisal Fe	ee Review					AIR	Parcels	x 5,000 =		\$570,40
12.	ro Ib	. 420		10064				TOTAL PHASE 4	Subtotal	4376,48
R/W LAND COST		: 43) & Severance Damages						Amount	2000000	
and Cost to			C	x	130%	Design p	lan stage	<b>=</b> 0		
14. Water Reter			589,270	X	130% (		w/o R/W Acq)	766,100		
15. SUBTOTAL			••••		900/	(Lines 1	-	402 400	766,100	
16. Admin. Sett 17. Litigation A		(Factor (Factor	45% 60%	X		if Line 15) if Line 15)		= 103,400 = 321,806		
18. Business Da		(Claims	0	x	\$D }			* O		
19. Bus. Damag	jes lacrs.	(Factor	25%	x	\$0 }			<b>≖</b> 0		
20. Owner Appr		(Parcels	8	x	\$10,000)			≖ <u>80,000</u>		
21. Owner CPA 22. Defend.Atty		(Claims (Sum of Lines 16,17&	425,200	X X	\$10,080 ) 40% )			= <u>0</u> = 170,100		
		: (Comm.+Unimproved)		+		> 18,000		= 0		
24. Other Cond			11	×	\$500		-	5,500		
25. SUBTOTAL						(Lines 1	6 thru 24)	TOTAL BUART	680,800	A1 44C 00
26.	naanev for	design plan stage:						TOTAL PHASE	13	\$1,446,90
		0% (2) 30% plans - 12	25% (3) 60% pla.	7 <b>5</b> - 3	120% (4) 90% pl	ans -115%	(5) 268 Date	-110%		
	ON CONSU	ILTANT (PHASE 42)			·					
27.		AP 48						TOTAL PHASE	12	
RELOCATION CO		ASE 45) ement Housing			Number		Amount			
28. Owner	периал	anear nodanig	\$20,000	x	7	102	140,000			
29. Tenant			\$10,000	x	4	28	49,000			.*
	Move C	osts						·		
30. Residential 31. Business/Fa			\$1,500 \$20,000	X	11 n	*	16,500			
32. Personal Pr			\$2,000	×	0	-	<b>3</b> B			
33. (Lines 28 th								TOTAL PHASE	15	\$196,50
34. Relocation	Services (	ost			\$19,650	(Not in I	hase Total)			
35.							(All Phases)	TOTAL ESTIMA	TE	\$2,356,80
Appraisal:	Gerald	W. Springstead II	Signed: .		Rus	,		Date:	1/30/0	
Bus. Dam. :	NIA		_Signed:		چون چ	,		Date: Date:		
	N/A Gerald	W. Springstead II	Signed: Signed:	_	\$000 8000	2		Date: Date: Date:	173070	)
Bus. Dam. ; Relocation: Overall Review;	N/A Gerald Norris	W. Springstead II L. Smith	_Signed:	Z	Bur Durg			Date: Date: Date: Date:	1/30/0	
Bus. Dam. : Relocation: Overall Review: Cost Estimate S	N/A Gerald Norris	W. Springstead II L. Smith	Signed: Signed:	-In t	the Amount of \$	· ?		Date: Date: Date:	1/30/0	)
Bus. Dam. ; Relocation: Overall Review;	N/A Gerald Norris Sequence A	W. Springstead II L. Smith	Signed: Signed: Signed:			,		Date: Date: Date: Date:	1/30/0	)
Bus. Dam. : Relocation: Overall Review: Cost Estimate S	N/A Gerald Norris Sequence A	W. Springstead II L. Smith	Signed: Signed: Signed:			3		Date: Date: Date: Date:	1/30/0	)
Bus. Dam. : Relocation: Overall Review: Cost Estimate S	N/A Gerald Norris Sequence A	W. Springstead II L. Smith	Signed: Signed: Signed:			3		Date: Date: Date: Date:	1/30/0	)
Bus. Dam. : Relocation: Overall Review: Cost Estimate S	N/A Gerald Norris Sequence A	W. Springstead II L. Smith	Signed: Signed: Signed:			2		Date: Date: Date: Date:	1/30/0	)
Bus. Dam. : Relocation: Overall Review: Cost Estimate S	N/A Gerald Norris Sequence A	W. Springstead II L. Smith	Signed: Signed: Signed:			3		Date: Date: Date: Date:	1/30/0	)
Bus. Dam. : Relocation: Overall Review: Cost Estimate S	N/A Gerald Norris Sequence A	W. Springstead II L. Smith	Signed: Signed: Signed:			3		Date: Date: Date: Date:	1/30/0	)
Bus. Dam. : Relocation: Overall Review: Cost Estimate S REMARKS:	R/A Gerald : Norris : Sequence A Pond 2	W. Springstead II L. Smith	Signed: Signed: Signed: Signed: Signed:	Basii	<b>1 2</b> .	3		Date: Date: Date: Date:	1/30/0	)
Bus. Dam. : Relocation: Overall Review: Cost Estimate S REMARKS:	N/A Gerald Norris Sequence A Pond 2	W. Springstead II L. Smith  The Dated: BA is one of the pond the estimator's confider indicates the most co	Signed: Signed: Signed: Signed: alternatives for	Basii	<b>1 2</b> .	3		Date: Date: Date: Date: Date: Date: Date: Date: Date: Data Input Comple	1/30/0	10% 1.1080
Bus. Dam. : Relocation: Overall Review: Cost Estimate S REMARKS:	RIA Gerald Rorris Requence A Pond 2  Indicates ti Type A Type B	W. Springstead II L. Smith  T: Dated: BA is one of the pond  The estimator's confider  indicates the most co- indicates above aver.	Signed: Signed: Signed: Signed: alternatives for ace in the above enfidence age confidence	Basii	<b>1 2</b> .	3		Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Data Input Comple	1/30/0	10% 1.1000 1.2100
Bus. Dam. : Relocation: Dverall Review: Cost Estimate S REMARKS:	RIA Gerald Norris Sequence A Pond 2  Indicates ti Type A Type B Type C	W. Springstead II L. Smith  The Dated: BA is one of the pond the estimator's confider indicates the most co	Signed: Signed: Signed: Signed: Signed:  alternatives for alternatives for age confidence age confidence	Basii	<b>1 2</b> .	3		Date: Date:	1/30/0	10% 1.1080
Bus. Dam. : Relocation: Dverall Review: Cost Estimate S REMARKS:  The following in	RIA Gerald Fords  Pond 2  Pond 2  Indicates ti Type A Type B Type C Type D	W. Springstead II L. Smith  T: Dated: BA is one of the pond  The estimator's confider Tindicates the most confider Tindicates the most confider Tindicates below aver Tindicates the least or	Signed: Signed: Signed: Signed: Signed:  alternatives for alternatives for action the above on fidence age confidence age confidence age confidence no confidence	Basii	<b>1 2</b> .	3		Date: Date: Date: Date: Date: Date: Date: Date: Date: Date: Data Input Comple Future Value Fact Year One Year Three	1/30/0	10% 1.1080 1.2100 1.3310
Bus. Dam. : Relocation: Overall Review: Cost Estimate S REMARKS:  The following in	RIA Gerald Norris Sequence A Pond 2  Indicates ti Type A Type B Type C Type D Indicates ti	W. Springstead II L. Smith  T: Bated: BA is one of the pond  The estimator's confider  Indicates the most co- Indicates above aver  Indicates below aver	Signed: Signed: Signed: Signed: Signed:  alternatives for alternatives for action the above on fidence age confidence age confidence age confidence no confidence	Basii estim	<b>1 2</b> .	3		Date: Date:	1/30/0	10% 1.1000 1.2100 1.3319 1.4641 1.6105

					RTMENT OF					300403 55 5555
	· ···· ·· · · · · · · · · · · · · · ·			•	RIGHT OF W	AY COST	ESTIMATE		PBS&J#:	700103.30 5023
FM#:	2564221		Former WPI#: FAP No.:		/A 455-001-U			District: Date:		Seven 30-Jen-01
County: State Ad.:	Pasco 41		Alternate:		455-UU1-U ONO 2-11			C.E. Sequence		NIA
Project Des.		01) from SR39 to (				JS301.				
Parcels	Grass I	let					Estimated Re	iocatees:	0	}
Commercial Residential	3						Business Residential		<u>_</u>	
Unimproved	0	0					Signs		0	(
							Special Total Relocat		<u>2</u>	
Total Parcels	4}	4					TO(B) MAIOCAL			
RIW SUPPORT C			4		13,000	= Ratel		Amount 52,000		
<ol> <li>Direct Labor</li> <li>Indirect Over</li> </ol>		(Parcels (Parcels	4	×	13,000 ·			0		
3.	Itaau	ir arcuis		^ -		,,,,,,		TOTAL PHASE 4	1	\$52,000
u. RJW OPS (PHASE	AR)				<b>4.4</b>	·			Amount	
4. Appraisal Fe		rial				4	Parcels	x 12,000 =	48,000	
5. Business Da			754			0	Claims	x 19,000 =	0	1
6. Court Report 7. Expert Witne		Servers	75%	х х	4	= 3 = 3	Parcels Parcels	x 500 = 30,000 =	1,500 90,000	
8. Mediators	122		50%	x ~	4	<b>=</b> 2	Parcels	x 2,400 -	4,800	
9. Demolition,		urvey, etc.		_		6	Imprymet	x 15,000 =	90,000	
10. Miscelianeo						1 N/A	Per Project Parcels	x 15,000 ± x 5,000 =	15,000	
11. Appræisal Fe 12.	9 usalam					II) A	£ 01 € 013	TOTAL PHASE 4		\$249,300
R/W LAND COST	S IDHAGE ASI							Amount	Subtotal	
		verance Damages						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1
•	Cure Amount		0	x _	130%	• Design p	lan staga	<u> </u>		
14. Water Reten	ition & Mit.		326,476	x _	130%	O Parcels v	wlo RIW Acq)	424,400		
15. SUBTOTAL						(Lines 13	814)		424,400	1
16. Admin. Settl		ctor	45%	×		of Line 15)		= 57,300		
17. Litigation Av 18. Business Da		ctor nims	60%	X -	\$0 )	of Line 15) '		= <u>178,200</u>		
19. Bus. Damagi	_		25%	Ŷ-	\$0			= 0		
20. Owner Appr		rceis	3	~	\$10,000			<b>30,000</b> .		
21. Owner CPA		nims	0	х _	\$10,000	}		<b>=</b> 0		
22. Defend.Atty		m of Lines 16,17&		X	48%			= 94,20B		
		mm.+Unimproved)		+ ~		18,000	-	≈ 18,000		
24. Other Conde 25. SUBTOTAL	mn. Casts		4	x _	\$500	(Lines 16	i thru 24)	2,000	379,700	
26.						(Elitos IV	( till 4 & 4)	TOTAL PHASE 4		\$804,100
• Design contin	gency for des	gn plan stage:						Lincoln		
(1) PD&E)	olans - 130%	(2) 30% plans - 12	?5% (3) 60% pla	ns - 12	0% (4) 90% p.	lans -115%	(5) 268 Date	-110%		
R/W ACQUISITIO	IN CONSULTA	NT (PHASE 42)						<del></del>		
27.								TOTAL PHASE 4	2	<b>\$</b> 0
RELOCATION CO										
no n	Replacemen	nt Housing	400 000		Number		Amount			
28, Owner 29, Tenant			\$20,000 \$10,000	χ _		=	10,000			•
23. 18HBBL	Move Costs	•	410,000	* -		<del>-</del>	10,000			
30. Residential	17,000 0031.		\$1,500	x	3	<b>#2</b>	4,500			
31. Business/Fa	rm		\$20,000	χ ~	0	#	0			
32. Personal Pri	operty		\$2,000	х _	2	=	\$4,000			
33. (Lines 28 th	ru 32)							TOTAL PHASE 4	5	\$58,500
34. Relocation S	Services Cost				\$5,850	(Not in P	hasa Total)			
35.							(All Phases)	TOTAL ESTIMA	E	\$1,163,900
Appraisal:	Gerald W. S	pringstead II	Signed:		SKUYE			Date:	1/30/0	
Bus. Dam. :	N/A		Signed:					Date:		
Relocation: Overall Review:	Gerald W. S Norris L. Sr	pringstead II	Signed:		Service.		-	Date:	1/39/01	
OTEISH NEVIEW:	monns L. M	inet)	_\$igned:	2	<u>~`()                                    </u>	-	<u>~ , ~</u> →	Date:		-/
Cost Estimate S	equence #:	Dated:		In th	Amount of \$			Data Input Comple	tion Date:	
REMARKS:										
	Pond 2-11 i	s one of the pond a	alternatives for B	lasin 3	-					
										Į
										•
The following in	dicates the e	timator's confiden	ice in the above e	stima	le:			Future Value Facto	នេ ស្ថិ	10%
		licates the most co						Year One		1.1000
X		licates above averi						Year Two Year Three		1.2100
^		licates below aver: licates the least or						Year Four		1.3310 1.4641
								Year Five		1.6105
The following in	diantan the N	opartment's purpo:	4 01-141							
		ոհայ արգու ա հուհու								
Work Program U Comments:			Document to R/			. Ga	ming 1:	<del></del>	Special Purpos	• <u>x</u>

	4 HIGHT HE WAY				
	N/A	COST ESTIMATE	District:	PBS&J#: 700 Sev	103,30 5023 on
FAP No.:	1455-001-U		Date:	38/7	n-01
	POND 2-12 Jeing 6sb St & US30	•	C.E. Sequence	NJA	
HO4, UNE WAY PAIRS U	ising our at & case	Estimated Rel	ocatees:		
		Business		0	
		Special	•	0	
			es	0	
J			Amount		
1 x .	13,000 ==	Rato)	13,000		
1 x	0 =	Rate)			447
			dente de la constantina della		\$13
		1 December			
				12,000 D	
75% x	1 =		500 =	500	
75% x	1 *	1 Parceis	x 30,000 ×	30,000	
50% x	1 "	1 Parcels :			
	· .				
		report of the control		<u>`</u>	\$59
				ibtotal	
			without 21	1017101	
n u	130% • 8-	einn nian etana			
100,000 4				169,900	
45% ×			. 0		
			<u> 101,900</u>		
		<del>-</del> /	<u> </u>		
	\$10,000 )		= 10,000		
<u> </u>	\$10,000 }	:	× 0		
101,900 x	40% }	:	40,800		
1 +		8,000	= 18,000		
i x	\$500		= 500		
	(Li	nes 16 thru 24)	=	171,200	
			TOTAL PHASE 43		\$34
EN. (2) CON -1 *	90% (A) DOM =1	.1154 IEL 250 BAAA	.1104		
270 (3) 00% PIBNS - 12	cum (4) Sum plans	·11371  37 Z08 U818	1107		
			V0741 DU106 40		
<u></u>			LIGIAL PHASE 42		
	E1 . 1				
AAA AA	_				
\$10,000 x	0	e			
44 500	•				
***************************************					
\$2,000 X	U	= \$0	TOTAL DURANT		
	,		TUTAL PHASE 45		
	\$0 (N	ot in Phase Total)			
		(All Phases)	TOTAL ESTIMATE		\$41
Signed:	Buss		Date:	1/30/01	
Signed:				1,, 3-, 51,	
	•		Date:		
Signed:	Auto /		Date:	1/30/01	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		di		1/30/01	
Signed: Signed:		di.	Date:	1/30/0	
Signed: Signed:		<u> Ari</u>	Date:	1/30/0	
	1 x 1 x 1 x 1 x 1 x x 1 1 x x 1 1 x x 1 1 x x 1 1 x 1 x 1 x 1 1 x	1 x 13,000 = 1 x 13,000 = 1 x 13,000 = 1 x 13,000 = 1 x 13,000 = 1 x 13,000 = 1 x 130% * De =	Stimated Rel   Stand Rel   S	State	Estimated Relocatees:   Business   0

			PARTMENT OF TRA				
			EN RIGHT OF WAY	COST ESTIMATE	District:	PBS&J#:	700103,30 5023 Seven
M#: County:	2564221 Pasco	Former WPI#; FAP No.:	N/A 1455-001-U		Date:		39-Jan-01
tate Rd.:	41	Alternate:	POND 2-14		C.E. Sequence		N/A
roject Des. Parcels	SR 41 (US 301) from SR39 to Gross   Net	CH54, One Way Pair	s using oth St & USSU	Estimated Rel	ocatees:		
commercial	1 1			Business			
Residential	2 2			Residential Signs		5 0	
Inimproved	<del></del>			Special		4	
otal Parcels	5 5			Total Relocat	962	10	
RIW SUPPORT O	OSTS (PHASE 41)				Amount		
1. Direct Labor		5 x	13,000 =	Rate)	65,000		
2. Indirect Ove	rhead (Parcels	<u> </u>	0 =.	Rate)	TOTAL PHASE 4	.1	\$65
3.					IIOTAL TRASE 4	Amount	702
R/W OPS (PHAS	t 461 eas Through Trial			5 Parcels	x 12,000 =		
5. Business Da	image CPA Fees Through Trial			0 Claims	x 19,000 =		
	rter & Process Servers	75% x	<u>——</u> =	4 Parcels	x 500 = x 30.000 *		
7. Expert With 8. Mediators	1855	75% x 50% x		4 Parcels 3 Parcels	x 30,000 * x 2,400 *		
	Ash. Abate., Survey, etc.	30/V X		4 Impremet	x 15,000 =	60,000	
10. Miscellane	ous Contracts			1 Per Project			
11. Appraisal F	ee Review			N/A Parcels	x 5,000 =		\$264
12.							¥2.04
R/W LAND COS					Amount	Subtotal	
	ovements & Severance Damages o Cure Amount	; 0 x	130% * DA	sign plan stage	_ 0		•
and Cost to 14. Water Rete		252,081 x		rcels wio R/W Acq)	327,700		
15. SUBTOTAL	arrive of these			ines 13 &14)		327,700	
	tiements (Factor	45% x	30% of Li		= 44,200		
17. Litigation A		60% ×	70% of Li	ne 15)	137,600		
18. Business D	-	0 ×	\$0 )		= 0		
	ges Incrs. (Factor	25% ×			= <u>0</u> ≈ 40,000		
20. Owner App 21. Owner CDA		4 >			#U,UU		
21. Owner CPA 22. Defend.Att					= 72,700		
	ert Witnes: (Comm. + Unimprove		2),	18,080	sa 54,000		
24. Other Cond		5 >		<del></del>	<b>2,500</b>		
25. SUBTOTAL			{L	ines 16 thru 24)	=	351,000	
26.					TOTAL PHASE	43	\$67
Design contin	ngancy for design plan stage: Fplans • 130% (2) 30% plans • .	125% (3) 50% nlans	. 120% (4) 90% olans	-115% (5) 268 Date	-110%		
	ON CONSULTANT (PHASE 42)	20,1 (0) 00/19/2000	12070 (17 2070 )				
nii Acadisii 27.	ON COMPOLINIES IS MADE 427				TOTAL PHASE	42	
	OSTS (PHASE 45)	<u> </u>					
	Replacement Housing		Number	Amount			
28. Owner		\$20,000	1	= 20,000			
29. Yenant		\$10,000	4	= 40,000			
	Move Costs	44 600		7 500			
30. Residentia		\$1,500	·	= 7,500 = 20,000	•		
31. Business/F		\$20,000	4	= 20,000 = \$8,000			
32, Personal P 33, (Lines 28 t		\$2,900	×4	- +0,000	TOTAL PHASE	45	\$9
33. (Lines 28 t 34. Relocation			\$9,550 (A	lot in Phase Total}	LIGIAL HINGE		
***************************************	G0,71003 G031		40,000 (0	(All Phases)	TOTAL ESTIMA	YI.	\$1,10
35.			C	(MILT. HERRY)			
Appraisal:	Gerald W. Springstead II N/A	Signed: Signed:	क्रिक्ट इंग्लिक		Date: _ Date:	1/3	0/01
Bus. Dam. : Relocation:	Gerald W. Springstead II	Signed:			Date:	[73.0	701
Overall Review		Signed:		-65T	Date:	//3	
	***************************************		and a bar and a state		Data Issued Com	ation Date:	,
Cost Estimate	Sequence#: Date	d:	n the Amount of \$		Data Input Compl	BUON DATE:	
REMARKS:	Daniel O Ad la sus alabe	d attanemativas das D-	oio 3				
	Pond 2-14 is one of the pon	a atternatives for Ba	sin J.				
The deller de	indicates the estimator's confid	ence in the above es	timate:		Futura Value Fac	tors 🖯	10%
THE TOTION INC.					Year One		1.1000
tua tonomină	Type A - indicates the most	confidence					
	Type A - indicates the most Type B - indicates above av	erage confidence			Year Two		1.2100
Lhe following	Type A - indicates the most Type B - indicates above av Type C - indicates below av	erage confidence erage confidence			Year Two Year Three		1.2100 1.3310
	Type A - indicates the most Type B - indicates above av	erage confidence erage confidence			Year Two Year Three Year Four		1.2100 1.3310 1.4641
X	Type A - indicates the most Type B - indicates above ave Type C - indicates below ave Type D - indicates the least	erage confidence erage confidence or no confidence	2.		Year Two Year Three		1.2100 1.3310 1.4641
X The fallowing	Type A - indicates the most Type B - indicates above ave Type C - indicates below av Type D - indicates the least Indicates the Department's pury	erage confidence erage confidence or no confidence nose for this estimati		Gamino 1:	Year Two Year Three Year Four	Special Purns	1.2100 1.3310 1.4641 1.6105
X	Type A - indicates the most Type B - indicates above ave Type C - indicates below av Type D - indicates the least Indicates the Department's pury	erage confidence erage confidence or no confidence		Geming 1:	Year Two Year Three Year Four	Special Purpo	1.2100 1.3310 1.4841 1.8105

Former WPW: FAP No.: Alternate:		VAY COST ESTIMATE	1	PBS&J#: 700103.30 5023
FAP No.: Alternate:	N/A			
Alternate:			District:	Seven
	1455-001-U		Date:	10-net-08
n SR39 to CR54. Doe Way	POND 2-15A		C.E. Sequence	NIA
1 01100 (0 01104, 0110 118)	Pairs Using 6th St &			
		Estimated Re Business	HOCAIRES;	C
		Residential	_	<del></del>
		Signs	_	D
		Special		0
		Total Reloca	tees	2
			Amount	
rale F	. v 13.080	ec Rate)	*******	
		•	0	
	- ^			\$78.00
		6 h L		nount 72,000
				72,000
	. v . E			2,500
				150.000
				7,200
	_ ^			30.000
<b></b>				15,000
		N/A Parcels	x 5,000 =	0
			TOTAL PHASE 4B	\$275,70
		······································		btotal
. D			Millioner 20	Rifical
-		4 Destau at	•	
***************************************				
177,485	x130%	•	230,700	
			<u>.</u>	230,700
50%			= 96,900	
. (	) x <u>\$0</u>	)	m0	
25%	x \$0	)	·· 0	
	x \$10,000	)	= 50,000	
	x \$10,000	j	** O	
nes 16.17& 128.00	x 40%	j	= 51,200	
	_			
		,,		
	<u> </u>	(Lines 16 thru 24)	22	304,200
		140,000 14 1014 4 17	TOTAL PHASE 43	\$534,90
etene.			Li il il il il il il il il il il il il il	
	lans - 120% (4) 90% p	lans -115% (5) 268 Dat	o -110%	
H3E 42;			TOTAL BUACE 42	\$
			I TOTAL PRASE 42	
ing	Number	Amount -		
\$20,000	0 x 2	= 40,000		
\$10,000	0 x 0	= 0	,	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			•	
\$1,50	) x 2	<b>≈ 3.000</b>		
	_ ———		•	
***************************************	· ^		TOTAL PHASE 45	\$43,00
	44 200	man at the think the think	TOTAL LUNGE 40	**3,00
	\$4,300	(Not in Phase Total)		
		(All Pheses)	TOTAL ESTIMATE	\$932,60
			<b>^</b>	1 . 7
ead II Signed:	- Jones		Date:	130/01
Signed:	- James		Date:	
Signed: ead II Signed:	- James	· · · · · · · · · · · · · · · · · · ·	Date:	1/30/0]
Signed:	July 2		Date:	
Signed: Signed: Signed:	Fine 7		Date: Date: Date:	1/30/01
Signed: ead II Signed:	In the Amount of \$		Date:	1/30/01
Signed: Signed: Signed:	Fine 7		Date: Date: Date:	1/30/01
	righ Trial   75%   75%   75%   75%   75%   50%   177,485   128,000   128,000   128,000   125%   128,000   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   125%   1	Trial	Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Total Reloca   Tota	Total Relocatees

1					PARTMENT OF					
				SEV	EN RIGHT OF V	AY COST	ESTIMATE		PB\$&J#:	700103.30 5023
FM#:	2564221		Former WPW:		N/A			District: Date:		Seven 30-Jan-01
County: State Rd.:	Pasco 41		FAP No.: Alternata:		1455-001-U POND 2-15B			C.E. Saquence		N/A
Project Des.		301) from SR39 to		Pairs		J\$301.				
Parcels	Gross	Net					Estimated Re	ocatees:	0	
Commercial Residential							Business Residential		0	
Unimproved	ŏ	- 3					Signs		0	
							Special		1	
Total Parcels	1	<u> </u>					Total Relocat	Bes	2	
RIW SUPPORT C								Amount		
1. Direct Labor		(Parcels		. х	13,000			13,000		
2. Indirect Over 3.	rnead	(Parcels		. ×	0	= Rate)		TOTAL PHASE	t 1	+12 ABA
	r an							ILOTAL PRASE		\$13,000
R/W OPS (PHASI 4. Appraisal Fe		Trial				1	Parcels	x 12,000 ·	Amount * 12,000	
		ees Through Trial				i	Claims	x 19,000 ·		
6. Court Repor		ss Servers	75%	×	11	<b>= 1</b>	Parcels	x 500 ·		
7. Expert Witn 8. Mediators	ess		75% 50%			* 1	Parcels Parcels	x 30,000 a		
	Asb. Abato.,	, Survey, etc.	3076	. ^		Ö	Impremet	x 15,000		
10. Miscellaneo	us Contract					1		x 15,000 •	- 15,000	
11. Appraisal Fe	e Review					N/A	Parcels	x 5,000		
12.								TOTAL PHASE		<b>\$78,9D</b> 0
R/W LAND COST	-							Amount	Subtotal	
		Saverance Damages			****					
and Cost to 14. Water Reten		nt	115,500	, х	~~~~~	Dasiga p.	-	= <u>0</u>		
15. SUBTOTAL	ruun er mil.		113,500	X	130%	u rarcais v Lines 13}	w/o R/W Acq) 1.8.1.61	150,208	150,200	
16. Admin. Sett	iements (F	actor	45%	х	0%	of Line 15)	1 (2 14)	<del>-</del> 0	130,200	
17. Litigation Av	-	actor	60%	X		f Line 15)		= 90,100		
18. Business Da	mages (C	laims	1	х	\$0 }			= 39,500		
19. Bus. Damagi		actor	25%	Х	\$39,500 )			= 9,900		
20. Owner Appr.		arcels		. X	\$10,000			= 10,000	-	
21. Owner CPA 22. Defend.Atty		laims	100,000	. X	\$10,000 }			= 10,000		
		Sum of Lines 16,17& Comm.+Unimproved)		, X	40% }	18,000		* 40,000 ** 18,000		
24. Other Conde		10111111 1 0111111p1 0 4 Caj	1	×	\$500	7 10,000	•	× 500		
25. SUBTOTAL						{Lines 16	thru 24)	<del></del>	218,000	
26.								TOTAL PHASE		\$368,200
* Design conting	gency for de	sign plan stage:								
(II FUNE)	7451 • \$11010						(C) 200 flags	4402/		
DILL ACQUICTIO			5% (3) 60% pla	ms ·	120% (4) 90% pi	ans -115%	(5) 258 Date	-110%	······································	
			5% (3) 60% pla	ins -	120% (4) 90% pi	ans -115%	(5) 258 Date		13	
27.	N CONSULT	ANT (PHASE 42)	5% (3) 6U% pla	ms ·	120% (4) 90% pi	ans -115%	(5) 258 Data	-110% TOTAL PHASE 4	12	10
RELOCATION CO	IN CONSULT STS (PHAS)	'ANT (PHASE 42) E 45)	5% (3) 60% pia	us.		ans -115%			32	‡0:
27. RELOCATION CO	IN CONSULT STS (PHAS)	ANT (PHASE 42)			Number	ans -115%	Amount		12	<b>‡</b> 0
27. RELOCATION CO	IN CONSULT STS (PHAS)	'ANT (PHASE 42) E 45)	\$20,000 \$10,000	x x		ans -115%	Amount 29,000		12	+0
27. RELOCATION CO 28. Owner	IN CONSULT STS (PHAS)	ANT (PHASE 42) E 45) ent Housing	\$20,000	×	Number 1	## No. 115%	Amount		2	+0
27. RELOCATION CO 28. Owner 29. Tenant 30. Residential	STS (PHAS) Replacem Move Cos	ANT (PHASE 42) E 45) ent Housing	\$20,000 \$10,000 \$1,500	×	Number 1 0	## ### ###############################	Amount 29,000		12	<b>\$0</b>
27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai	STS (PHASI *- Replacem Move Cos	ANT (PHASE 42) E 45) ent Housing	\$20,000 \$10,000 \$1,500 \$20,000	×	Number 1 0	# to a	Amount 29,000 0 1,500 0		12	*0
27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro	STS (PHASI Replacem Move Cos m	ANT (PHASE 42) E 45) ent Housing	\$20,000 \$10,000 \$1,500	x x	Number 1 0	# **	Amount 28,006 0	TOTAL PHASE 4		·
27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thi	STS (PHASI TREPIACEM Move Cos rm pperty ru 32)	ANT (PHASE 42) E 45) ent Housing	\$20,000 \$10,000 \$1,500 \$20,000	x x x	Number 1 0 1 0 1 1 0 1 1		Amount 29,000 0 1,500 0 \$2,000			\$0.  \$23,500
27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 th) 34. Relocation S	STS (PHASI TREPIACEM Move Cos rm pperty ru 32)	ANT (PHASE 42) E 45) ent Housing	\$20,000 \$10,000 \$1,500 \$20,000	x x x	Number 1 0 0 1 0		Amount 29,000 0 1,500 0	TOTAL PHASE 4	15	\$23,500
27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 th) 34. Relocation S	STS (PHASI TREPIACEM Move Cos rm pperty ru 32)	ANT (PHASE 42) E 45) ent Housing	\$20,000 \$10,000 \$1,500 \$20,000	x x x	Number 1 0 1 0 1 1 0 1 1		Amount 29,000 0 1,500 0 \$2,000	TOTAL PHASE 4	15	·
27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thi 34. Relocation S 35. Appraisal:	STS (PHAS)  Replacem  Move Cos  rm  operty ru 32)  Gerald W.	E 45) E 45) ent Housing ts	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000	x x x x	Number 1 0 1 0 1 1 2.350		Amount 20,000 0 1,500 0 \$2,000 hase Total)	TOTAL PHASE 4	15	\$23,500
27. RELOCATION CO 28. Owner 29. Tenant 30. Residential- 31. Business/Fai 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. :	STS (PHASI STS (PHASI Replacem Move Cos rm operty ru 32) Services Cos Gerald W. Gerson Pr	ANT (PHASE 42) E 45) ent Housing ts t Springstead II eston & Co.	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000	x x x x	Number 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Amount 20,000 0 1,500 0 \$2,000 hase Total)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMA  Date: Date: Date:	15 TE (/30/0) 16/25/2000	\$23,500
27. RELOCATION CO 28. Owner 29. Tenant 30. Residential- 31. Business/Fai 32. Personal Pro 33. (Lines 28 th 34. Relocation S 35. Appraisal: Bus. Dam.: Belocation:	STS (PHASILT STS (PHASILT Replacem  Move Cos  rm operty ru 32) Gervices Cos  Gerald W. Gerson Pr Gerald W.	ANT (PHASE 42)  E 45) ent Housing  ts  t  Springstead II eston & Co. Springstead II	\$20,000 \$10,000 \$10,000 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed:	x x x x	Number 1 0 1 0 1 1 2.350		Amount 20,000 0 1,500 0 \$2,000 hase Total)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMA Date: Date: Date: Date: Date:	15 1/30/01 6/25/2000 1/30/01	\$23,500 \$483,600
27. RELOCATION CO 28. Owner 29. Tenant 30. Residential- 31. Business/Fai 32. Personal Pro 33. (Lines 28 th 34. Relocation S 35. Appraisal: Bus. Dam.: Belocation:	STS (PHASI STS (PHASI Replacem Move Cos rm operty ru 32) Services Cos Gerald W. Gerson Pr	ANT (PHASE 42)  E 45) ent Housing  ts  t  Springstead II eston & Co. Springstead II	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000	x x x x	Number 1 0 1 0 1 1 1 2 2 3 5 0		Amount 20,000 0 1,500 0 \$2,000 hase Total)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMA  Date: Date: Date:	15 \[ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$23,500
27. RELOCATION CO 28. Owner 29. Tenant 30. Residential 31. Business/Fai 32. Personal Pro 33. (Lines 28 thi 34. Relocation S 35. Appraisal: Bus. Dam. : Belocation: Overall Review: Cost Estimate Se	STS (PHASI Replacement Move Cos rm operty ru 32) Services Cos Gerald W. Gerson Pr Gerald W. Norris L. S	ANT (PHASE 42)  E 45) ent Housing  ts  t  Springstead II eston & Co. Springstead II	\$20,000 \$10,000 \$10,000 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed:	x x x x x x	Number 1 0 1 0 1 1 1 2 2 3 5 0		Amount 29,000 0 1,500 0 \$2,000 hase Total) (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMA Date: Date: Date: Date: Date:	15 \[ \( \) 3 \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \(	\$23,500 \$483,600
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RIW SUPPORT COSTS (PHASE 41)		42.000	B-4al	Amount 13,000	
1. Direct Labor Cost (Parcels 2. Indirect Overhead (Parcels		x 13,000 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	Rate) Rate)	13,000	
*** /**********************************		^	natu,	TOTAL PHASE 41	\$
3.	***************************************			Amount	
R/W OPS (PHASE 4B) 4. Appraisal Fees Through Trial			1 Perceis		12,000
5. Business Damage CPA Fees Through Tria	Í		0 Claims	x 19,000 w	0
6. Court Reporter & Process Servers	75%	x <u>1</u> =	i Parceis	x 500 =	500
7. Expert Witness	75%	x <u>1</u>	1 Parcels	x 30,000 = x 2,400 =	30,000
8. Mediators	50%	x	1 Parceis 1 Imprymet		2,400 15,000
9. Damelition, Ash. Abate., Survey, etc. 10. Miscellaneous Contracts			1 Per Project		15,000
11. Appraisal Fee Review			N/A Parceis	x 5,000 =	0
12.				TOTAL PHASE 48	\$
RIW LAND COSTS (PHASE 43)			······································	Amount Subtot	al
13. Land, Improvements & Severance Damag	es ·				
and Cost to Cure Amount	0		Dasign plan staga	<u> </u>	
14. Water Retention & Mit.	489,224		Parcels wio R/W Acq)	636,000	
15. SUBTOTAL	_		Lines 13 &14}	6	36,000
16. Admin. Settlements (Factor	45%		Line 15)	204 000	
17. Litigation Awards (Factor	60%	x 100% of	Line 15)	= 381,600 = 0	
18. Business Demages (Claims		x \$0 } x \$0 }		<u> </u>	
19. Bus. Damages Incrs. (Factor 28. Owner Apor. Fees (Parcels		x \$0 \ x \$10,000 \		10.000	
28. Owner Appr. Fees (Parcels 21. Owner CPA Fees (Claims		x \$10,000)		= 0	
22. Defend.Atty Fees (Sum of Lines 16,1		x 40%)		<b>152,600</b>	
23. Owner Expert Witnes: (Comm.+Unimprov			18,000	<b>18,000</b>	
24. Other Condemn. Costs		x \$500		<b>≈ 500</b>	
25. SUBTOTAL			(Lines 16 thru 24)		i62,700
26.				TOTAL PHASE 43	\$1,1
* Design contingency for design plan stage: (1) PD&E plans - 130% (2) 30% plans	125% /7) EB% nion	. 120% (A) 90% alai	ec. 115% (5) 268 Data	.110%	
<del></del>		· 120/1 (4) 30/1 piai	13 · 1 13 /3 (3) 200 D810	771078	<del></del>
R/W ACQUISITION CONSULTANT (PHASE 42) 27.				TOTAL PHASE 42	
RELOCATION COSTS (PHASE 45)				TID THE TOMOSE 42	
C NHBIRCHERAR & NHBIRCHERAR STREET		Number	Amaunt		
<ul> <li>Replacement Housing</li> <li>28. Owner</li> </ul>	<b>\$20 ANA</b>	Number x 0	Amount ≖ D		
28. Owner	\$20,000 \$10.000	x <u>0</u>	Amount = 0 = 0		
28. Owner 29. Tenant  Move Costs		x <u> </u>	= <u>0</u>		
28. Owner 29. Tenant	\$10,000	x <u>0</u>	= <u>0</u>		
28. Owner 29. Tenant Move Costs	\$10,000	x 0 x 0 x 0 x 0	= 0		
28. Owner 29. Tenant Move Costs 30. Residential	\$10,000 \$1,500	x 0 x 0 x 0	= 0		
28. Owner 29. Tenant Move Costs 30. Residential- 31. Business/Farm 32. Personal Property	\$10,000 \$1,500 \$20,000	x 0 x 0 x 0	= 0	TOTAL PHASE 45	
28. Owner 29. Tenant Move Costs 30. Residential 31. Business/Farm	\$10,000 \$1,500 \$20,000	x 0 x 0 x 0 x 0 x 0 x 0	= 0	TOTAL PHASE 45	
28. Owner 29. Tenant Move Costs 30. Residential 31. Business/Farm 32. Personal Property 33. (Lines 28 thru 32)	\$10,000 \$1,500 \$20,000	x 0 x 0 x 0 x 0 x 0 x 0	= 0 = 0 = 0 = 0 = 0	TOTAL PHASE 45	<b>\$1,</b> 7
28. Owner 29. Tenant  Move Costs 30. Residential- 31. Business/Farm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost 35.	\$1,500 \$1,500 \$20,000 \$2,000	x 0 x 0 x 8 x 0 x 0 x 0	= 0 = 0 = 0 = 0 = \$0 (Not in Phase Total)	TOTAL ESTIMATE	
28. Owner 29. Tenant  Move Costs  30. Residential 31. Business/Farm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost  35.  Appraisal: Bus, Dam.;  M/A	\$10,000 \$1,500 \$20,000 \$2,000 Signed:	x 0 x 0 x 0 x 0 x 0 x 0	= 0 = 0 = 0 = 0 = \$0 (Not in Phase Total)	TOTAL ESTIMATE  Date:  Date:	#1,2 /31/91
28. Owner 29. Tenant  Move Costs  30. Residential- 31. Business/Farm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost  35.  Appraisal: Bus. Dam. : Relocation:  N/A Relocation: Gerald W. Springstead II	\$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed:	x 0 x 0 x 8 x 0 x 0 x 0	= 0 = 0 = 0 = 0 = \$0 (Not in Phase Total)	TOTAL ESTIMATE  Date: Date: Date:	/31701 /3170)
28. Owner 29. Tenant  Move Costs  30. Residential- 31. Business/Farm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost  35.  Appraisal: Bus, Dam.:  Gerald W. Springstead II N/A	\$10,000 \$1,500 \$20,000 \$2,000 Signed:	x 0 x 0 x 0 x 0 x 0 x 0	= 0 = 0 = 0 = 0 = \$0 (Not in Phase Total)	TOTAL ESTIMATE  Date:   Date:	/31/01
28. Owner 29. Tenant  Move Costs 30. Residential- 31. Business/Farm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost 35.  Appraisal: Bus, Dam.: N/A Relocation: Gerald W. Springstead II	\$10,000 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 0 x 0	= 0 = 0 = 0 = 0 = \$0 (Not in Phase Total)	TOTAL ESTIMATE  Date: Date: Date:	/31/91 /31/0) <b>\$</b> / <i>O</i> /

•					RANSPORTATI			
L			DISTRICT S	SEVEN RIGHT OF WA	Y COST ESTIN		PBS&J#:	700103.30 502
FM#:	2564221		Former WPU:	N/A 1455-001-U		District: Date:	•	Seven 30-Jan-01
County: State Rd.:	Pasco 41		FAP No.: Alternate:	POND 2-17		C.E. Sequence		N/A
Project Des.	SR 41 (US 301)	from SR39 to	CR54, One Way P	airs Using 6th St & US	301.	4   D-1	<del></del>	
Parcels Commercial	Gross Net	D			Busine	ted Relocatees:	0	
Residential	5	5			Reside		5	
Unimproved	0	0			Signs Specia	t	<u>0</u>	
Total Parcels	5	5				i Relocatees		
	COSTS (PHASE 41	)		· · · · · · · · · · · · · · · · · · ·		Amount		
1. Direct Labo		(Parcels	<u>5</u>	x 13,000 =	Rate)	65,000		
2. Indirect Ove	erhead	(Parcels	5	x <u>D</u> =	Rate)	D DIACE	11	\$6
3.	05 40)				- 115-11-11-11-11-11-11-11-11-11-11-11-11-	TOTAL PHASE	Amount	*0
R/W DPS (PHAS 4. Appraisal F	st 46) Fees Through Trial				5 Parcel:	s x 12,000 s		
5. Business D	amage CPA Fees T				0 Claims			
<ol><li>Court Report</li><li>Expert Wit</li></ol>	ırter & Process Sei	AGLZ	75%	X	4 Parcel: 4 Parcel:			
B. Mediators	11033		50%	x 5 =	3 Parcei:	s x 2,400	7,200	
	, Asb. Abate., Surv	ey, etc.		,	5 Impryn	net x 15,000 - oject x 15,000 -		
10. Miscellane 11. Appraisal i					N/A Parcei			
12.		·				TOTAL PHASE		\$27
R/W LAND COS	TS (PHASE 43)					Amount	Subtotal	
	ovements & Sever	ance Damages						
	o Cure Amount		262,275		Design plan stag Parcels wio RIW			
<ol> <li>Water Rete</li> <li>SUBTOTAL</li> </ol>			202,215	A 130/8 (U	(Lines 13 &14)	Fred 341,000	341,000	
	ttiements (Factor		45%		Line 15)	= 46,000		
17. Litigation			60%		Line 15)	* 143,200		
18. Business D			25%	x \$0)		= 0		
19. Bus. Dama 20. Owner App	ges Incrs. {Factor or. Fees {Parcel		25% 4	x \$10,000)		= 40,000		
21. Owner CP/			0	x		= 0	•	
22. Defend.Att	•	f Lines 16,178		x 40%)		75,700		
	ert Witnes: (Comm	.+Unimproved	)		18,000	= 2,500		
24. Other Cond 25. SUBTOTAL				x \$500	(Lines 16 thru 2		307,400	
26.						TOTAL PHASE		\$64
	ngency for design ;		254 (2) 50H =1-	ne . 120K (A) 00K -1-	ne .115% /51 25	SR Data . 110W.		
***************************************	ION CONSULTANT		. 5 / F   5 / UU 7 F   D   B	ns - 120% (4) 90% pla	11071 (0) 20			
n/W AGUUISIII 27.	ION CONSULTANT	if Brok 44]				TOTAL PHASE	42	
	OSTS (PHASE 45)					,		
	- Replacement H	ousing		Number	Атонг			
28. Owner			\$20,000	x5	= 10	0,000		
29. Tenant	Move Costs		\$10,000	x0	=	0		
30. Residentia			\$1,500	x 5	12	7,500		
			\$20,000	x 0	=	0		
31. Business/F								
31. Business/F 32. Personal P	roperty		\$2,000	x 2	= \$	4,000		
31. Business/F 32. Personal P 33. (Lines 28 t	roperty hru 32)		\$2,000			TOTAL PHASE	45	\$11
31. Business/F 32. Personal P 33. (Lines 28 t 34. Relocation	roperty hru 32)		\$2,000	x 2 \$11,150	(Not in Phase To	TOTAL PHASE		
31. Business/F 32. Personal P 33. (Lines 28 t 34. Relocation 35.	roperty hru 32) Services Cost		\$2,000			TOTAL PHASE		\$11 \$1,80
31. Business/F 32. Personal P 33. (Lines 28 t 34. Relocation 35. Appraisal:	roperty hru 32) Services Cost Gerald W. Spri	ngstead II	Signed:		(Not in Phase To	TOTAL PHASE  ptal)  pases) TOTAL ESTIMA  Date:		
31. Business/F 32. Personal P 33. (Lines 28 t 34. Relocation 35. Appraisal: Bus. Dam. :	roperty hru 32) Services Cost Gerald W. Spri N/A		Signed: Signed:	\$11,150	(Not in Phase To	TOTAL PHASE  otal)  asses)   TOTAL ESTIMA  Date: Date:	TE 1.3701	
31. Business F 32. Personal P 33. {Lines 28 t 34. Relocation 35. Appraisal: Bus. Dam. : Relocation: Overall Review	roperty hru 32) Services Cost  Gerald W. Spri NIA Gerald W. Spri	ngstead II	Signed:	\$11,150	(Not in Phase To	TOTAL PHASE  ptal)  pases) TOTAL ESTIMA  Date:	ME	
31. Business/F 32. Personal P 33. (Lines 28 t 34. Relocation 35. Appraisal: Bus. Dam. : Relocation:	Gerald W. Spri NIA Gerald W. Spri NIA Gerald W. Spri Norris L. Smith	ngstead II	Signed: Signed: Signed: Signed:	\$11,150	(Not in Phase To	TOTAL PHASE Data: Date: Date: Date:	TE   [3/01  /3/01  /3//	\$1,80

FM#: 2		DISTRICT SEV	EN RIGHT OF WAY CO	IST FSTIMALE	PBS&J#:	700103.30 503
	2564221 Pasco 41	Former WPL#: FAP No.: Alternate:	N/A 1455-001-U POND 2-18		District: Date: C.E. Sequence	Seven 30-Jan-81 R/A
Project Des. S Parceis	SR 41 (US 301) from SR39 to Gross Net			Estimated Re	locatees:	
Commercial Residential Unimproved	1 1 3 3 1 1			Business Residential Signs		0 3 0
Total Parcels	5 5			Special Total Relocat		<u>0</u> 3
R/W SUPPORT COS	, ,	5 x	13,000 × Re	ota)	Amount 65,000	
2. Indirect Overhe				118)	0	
3. R/W OPS (PHASE 4	(2)				TOTAL PHASE 41	\$1
4. Appraisal Fees	Through Trial		5	Parcels	x 12,000 # 60,00	_
6. Court Reporter	age CPA Feas Through Trial r & Process Servers	75% x	5 = 4		x 500 = 2,00	<u> </u>
7. Expert Witness 8. Mediators	S	75% x 50% x	5 = 4		x 30,000 = 120,00 x 2,400 = 7,20	
	b. Abate., Survey, etc.		4		x 15,000 ≈ 60,00	D .
10. Miscellanaeus 11. Appraisal Fee F			1 N//		x 15,000 = 15,00 x 5,000 =	T
12.	HCARORA		15)	- 1016013	TOYAL PHASE 4B	\$20
R/W LAND COSTS (	(PHASE 43)				Amount Subtotal	
13. Land, Improven and Cost to Cu	ments & Severance Damage:		, 1280/ * Danta	n nlan 2020-	<b>≖</b> 0	
and Lost to Lu 14. Water Retentio		0 x 255,776 x	130% * Desig	<i>n pien stage</i> ils w/o R/W Acq)	332,500	
15. SUBTOTAL				13 & 14)	332,50	10
<ol> <li>Admin, Settlen</li> <li>Litigation Awa</li> </ol>		45% x 60% x	30% of Line 70% of Line		= 44,900 = 139,700	
18. Business Dama		0 x	\$0 }	12)	= 133,/00 = 0	
19. Bus. Damages	Incrs. (Factor	25% x	<b>\$0</b> }		<b>=</b> 0	
20. Owner Appr. Fe 21. Owner CPA Fee		4 x	\$10,000 } \$10,000 }		= <u>40,000</u>	
22. Defend.Atty Fe	ees (Sum of Lines 16,17	& 184,600 x	40% }		73,800	
23. Owner Expert \	Witnes: (Comm. + Unimprove	d) <u>1</u> +	1)) 18,0	<u> 100</u>	= 36,000	
24. Other Condemo 25. SUBTOTAL	a. Costs	<u>5</u> x	\$500 (Lines	s 16 thru 24)	= 2,500 = 336,90	ın
26.			(Emo.	, 10 11/10 24,	TOTAL PHASE 43	161
<ul> <li>Design contingen</li> <li>(1) PD&amp;E pla</li> </ul>	ncy for design plan stage: ens - 130% (2) 30% plans - 1	125% (3) 60% nlans -	120% (4) 90% plans -11	15% (5) 268 Date	-110%	
	CONSULTANT (PHASE 42)			•	TOTAL PHASE 42	
RELOCATION COST	(S (PHASE 45)				FIDIAL FRANCE 42	
	Replacement Housing		Number	Amount		
28. Owner 29. Tenant		\$20,000 x \$10,000 x	3 =			
•	Move Costs	410,800 X	<u>v</u> =			
		\$1,500 x	3 *	4,500		
30. Residential						
31. Business/Farm		\$20,000 x	0 -=			
31. Business/Farm 32. Personal Prope	erty	\$20,000 x \$2,000 x	0 =	\$0	TOTAL PHASE 45	11
31. Business/Farm 32. Personal Prope 33. (Lines 28 thru )	erty 32)		0 =		TOTAL PHASE 45	\$1
31. Business/Ferm 32. Personal Prope 33. (Lines 28 thru: 34. Relocation Ser	erty 32)		0 =	\$0	TOTAL PHASE 45	
31. Business/Farm 32. Personal Prope 33. (Lines 28 thru ; 34. Balocation Sen 35.  Appraisal:	erty 32  vices Cost Gerald W. Springstead II	\$2,000 x Signed:	0 =	‡D π Phase Total)	TOTAL ESTIMATE  Date: (73)/	\$1,06 (7 d)
31. Business/Farm 32. Personal Prope 33. (Lines 28 thru: 34. Belocation Sen 35.  Appraisal: Bus. Dam.:	erty 32) vices Cost Gerald W. Springstead II NIA	\$2,000 x Signed: Signed:	0 = \$6,450 (Noti	‡D π Phase Total)	[TOTAL ESTIMATE Date: 13)/	\$1.0i
31. Business/Farm 32. Personal Prope 33. (Lines 28 thru: 34. Relocation Ser 35.  Appraisal: Bus. Dam.: Relocation:	erty 32  vices Cost Gerald W. Springstead II	\$2,000 x Signed:	0 = \$6,450 (Noti	‡D π Phase Total)	TOTAL ESTIMATE  Date: (73)/	\$1.0 7 d )
31. Business/Farm 32. Personal Prope 33. (Lines 28 thru: 34. Relocation Ser 35.  Appraisal: Bus. Dam.: Relocation:	erty 32) vices Cost Gerald W. Springstead II NIA Gerald W. Springstead II Norris L. Smith	\$2,000 x  Signed: Signed: Signed: Signed:	0 = \$6,450 (Noti	n Phase Total) (All Phases)	TOTAL ESTIMATE  Date: 1/3// Date: 1/3//	\$1.0 7 d j

		· · · · · · · · · · · · · · · · · · ·			DEPARTMENT OF 1					
					EVEN RIGHT OF W	AY COS	ESTIMATE	District:	PBS&J#:	700103.30 5023 Seven
	FM#: County:	256422 Pasco	1	Former WPW: FAP No.:	N/A 1455-001-U			Date:		30-Jan-01
	State Ad.:	41 CD 41 //	10 2011 from 5030 to	Alternate:	POND 2-19 birs Using 6th St & U	1052		C.E. Sequence		NIA
	Project Des. Percels	Gross	Net	01104, 0110 1121	and banky our or or a		Estimated Re	ocatees:		
	Commercial Residential	0	6				Business Residential	•	<u>0</u> 6	
	Unimproved	0	0				Signs		0	
	Total Parcels	6	6				Special Total Relocat	805	<u>2</u>	
•	RIW SUPPORT CO							Amount	·····	
	1. Direct Labor C	ost	(Parcels	6	x 13,000 =			78,000		
	2. Indirect Over	ead	(Parcels	6	x0 =	Rate	)	TOTAL PHASE 41		\$78,000
	3. R/W OPS (PHASE	AD)						سناب والمرسون والمرسون	Amount	470,000
	4. Appraisal Fee	s Throug				6	Parcels	x 12,000 =	72,000	
	5. Business Dan 6. Court Reports		Fees Through Trial	75%	x 6 =	· 5	Claims Parcels	x 19,000 = x 500 =	0 2,500	1
	7. Expert Witne			75%	x 6 =	- 5	Parcels	x 30,000 =	150,000	
	8. Mediators 9. Demolition, A	sh. Ahat	e., Survey, etc.	50%	х <u> </u>	· 3	Parcels Imprymet	x 2,400 = x 15,000 =	7,200 90,000	
	10. Miscellaneou	s Contra				1	Per Project	x 15,000 ± 5,000 =	15,000 B	
	11. Appraisal Fac	Heview				N/A	Parcels	TOTAL PHASE 4E		<b>\$336,700</b>
	R/W LAND COSTS	(PHASE	43}						Subtotal	
	13. Land, Improv	ements 8	Severance Damages							
	and Cost to I			<u>0</u> 320,162			olan stage wio R(W Acq)	= <u>0</u> 416,200		
	14. Water Retent	លេខ សាវ	L	320,102	x 130% (	Lines 1:		+10,200	416,200	
	16. Admin. Settle			45%		f Line 15)		= 56,200		
	17. Litigation Aw 18. Business Dar		{Factor {Claims .	60%	x 70% o	f Line 15)		= 174,800 = 0		
	19. Bus. Damage			25%	x \$0}			= 0		
	20. Owner Appr.		[Parcels	5	x \$10,000}			= 50,000		
	21. Owner CPA F 22. Defend.Atty		(Claims (Sum of Lines 16,178	0 k: 231,000	x \$10,000 } x 40% }			= 92,400 = 92,400		
			(Comm.+Unimproved	)0		18,000	<u>)</u>	= 0		
	24. Other Conder 25. SUBTOTAL	nn. Costs	•		x \$500	(Liona ti	6 thru 24)	= 3,000	376,400	
	26.					(FILLEZ L	0 LIITU 24)	TOTAL PHASE 43		\$792,600
	* Design conting	ency for	design plan stage:	25V (2) 50V mls	1201/ /41 BOW at	<i>1158</i>	/ (E) 2EP R	1104	***************************************	
			U74 (2) 3074 pians · 1. LTANT (PHASE 42)	2374 (3) 8074 918.	ns - 120% (4) 90% pl	ans •1197	i (3) 200 Date	-11071		
	27.	1 60030	LIAMI (FRASE 42)					TOTAL PHASE 42	!	<b>\$</b> 0
	RELOCATION COS	STS (PHA	SE 45)				······		***********	
	1	Replace	ment Housing	480 000	Number		Amount			
•	28. Owner 29. Tenant			\$20,000 \$10,000	x5	=	100,000			
	LS. Tollant	Move C	osts	710,000	^	_	10,000			
	30. Residential-			\$1,500	x <u>6</u>	=	9,000			
	31. Business/Far 32. Personal Pro			\$20,000 \$2,000	x 0 x 2	== ==	\$4,000			
	33. {Lines 28 thr				4	-	,000	TOTAL PHASE 45	5	\$123,000
	34. Relocation S	ervices C	ost		\$12,300	(Not in I	Phase Total)			
	35.						(All Phases)	TOTAL ESTIMAT	E	\$1,330,300
	Appraisal:		W. Springstead II	Signed:	Sowes.			Date:	1/30/0	1
	Bus. Dam. : Relocation;	N/A Gerald 1	W. Springstead II	Signed: Signed:	<b>X</b>			Date:	1/30/0	, }
	Overall Review:	Norris L		_Signed:			7	Date:	1/30/	
	Cost Estimate Se	quanca #	: Dated:	. /	In the Amount of \$		,	Data input Complet	ion Data:	
	REMARKS:	·								
		Pond 2-	19 is one of the pond	alternatives for E	asin 5.					
		,								
	The following ind	icates th	e estimator's confide	nce in the above o	stimate:		· · · · · · · · · · · · · · · · · · ·	Future Value Factor	: <u>0</u>	10%
		Туре А	<ul> <li>indicates the most c</li> </ul>	onfidence	•			Year One	ū	1.1000
	X		- indicates above aver - indicates below aver					Year Two Year Three		1.2100 1.3310
			- indicates the least o					Year Four		1.4641
	The following inc	icates th	e Department's purpo	se for this estima	ie:			Year Five	· · · · · · · · · · · · · · · · · · ·	1.6105
	Work Program Up			Document to R		G	ming 1:		Special Purpose	X
	Comments:									

FM#: 2564221		N RIGHT OF WAY COS	ST ESTEMATE		PBS&J#:	700103.30
County: Pasco State Rd.: 41	former WPW: FAP No.:	N/A 1455-001-U POND 2-20A	// ESTANCE	District: Date: C.E. Sequence		Seven 30-Jen-D1 NJA
Project Des. SR 41 (US 301) from SR39 to Parcels Gross Net Commercial 0 0			Estimated Rel Business	•	0	
Residential 4 4 Unimproved 0 0			Residential Signs Special		3 0 1	
Total Parcels 4 4  B/W SUPPORT COSTS (PHASE 41)		<del>                                     </del>	Total Relocat	Amount	4	
Direct Labor Cost (Parcels     Indirect Overhead (Parcels	4 x	13,000 = Ret 0 = Ret		52,000 0		
3.		<u> </u>		TOTAL PHASE 41		
R/W OPS (PHASE 4B)  4. Appraisal Fees Through Trial		4		x 12,000 =	Amount 48,000	
5. Business Damage CPA Fees Through Trial 6. Court Reporter & Process Servers	75% x	· 0	Claims Parcels	x 19,000 = x 500 =	1,500	
7. Expert Witness	75% x 50% x	4 = 3	Parcels Parcels	x 30,000 = x 2,400 =	90,000 4,800	
8. Mediators 9. Demolition, Asb. Abate., Survey, etc.	3074 X	- 5	Imprvmet	x 15,000 ×	75,000	
18. Miscellaneous Contracts 11. Appraisal Fee Review		1 N/A	Per Project Parcels	x 15,000 * x 5,000 =	15,000	
12.		1471		TOTAL PHASE 48		
R/W LAND COSTS (PHASE 43)				Amount	Subtotal	
13. Land, Improvements & Severance Damages and Cost to Cure Amount	. <u> </u>	130% * Design	pian staga	<u> </u>		
14. Water Retention & Mit.	291,437 x	130% (0 Parcel		378,900	370 000	
15. SUBTOTAL 16. Admin, Settlements (Factor	45% x	Lines 30% of Line 1	13 &14) 5}	<b>-</b> 51,200	378,900	
17. Litigation Awards (Factor	60% x	70% of Line 1	•	× 159,100		
18. Business Damages (Claims 19. Bus. Damenes Incrs. (Factor	0_ x 25% x	\$0 \$0		= <u>0</u> =		
20. Owner Appr. Fees {Percels	3 x	\$10,000)		30,000		
21. Owner CPA Fees (Claims	D x	\$10,000 l		= 0		
<ol> <li>Defend.Atty Fees {Sum of Lines 16,17</li> <li>Owner Expert Witnes: {Comm.+Unimprove</li> </ol>		40% } 0 }> 18,0	no	= <u>84,100</u> = 0		
24. Other Condemn. Costs	4 x	\$50D		= 2,000		
25. SUBTOTAL 26.		(Lines	16 thru 24)	TOTAL PHASE 43	326,400	
* Design contingency for design plan stage:		000/ 161 000/ 15 441	rec (c) een o	· · · · · · · · · · · · · · · · · · ·	<u>,</u>	
(1) PD&E plans - 130% (2) 30% plans - 1 R/W ACQUISITION CONSULTANT (PHASE 42)	20%   3  OU% PIBRS -	20% (4) 30% plans - 113	79 (3) 200 D818	TOTAL PHASE 4:		
RELOCATION COSTS (PHASE 45)				TIOTAL CHASE 42		
Replacement Housing		Number	Amount			
28. Owner 29. Tenant	\$20,000 x \$10,000 x	3 =	60,000			,•
Maye Costs		<u>-</u>				
30. Residential	\$1,500 x	=	4,500			
i	\$20,000 x	0 =	Û			
31. Business/Ferm		1 =	\$2.000			
1	\$2,090 x	1 =====================================	\$2,000	TOTAL PHASE 4	j	······································
31. Business/Ferm 32. Personal Property			\$2,000 Phase Total)	TOTAL PHASE 4	j	
31. Business/Ferm 32. Personal Property 33. (Lines 28 thru 32)				TOTAL PHASE 4		
31. Business/Ferm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost 35.  Appraisal: Gerald W. Springstead II	\$2,000 x Signed:		Phase Total)	TÖTAL ESTIMAT		
31. Business/Ferm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost 35.  Appraisal: Gerald W. Springstead II Bus. Dam.: N/A	\$2,080 x Signed: Signed:	\$6,650 (Not in	Phase Total)	TOTAL ESTIMAT  Date:  Date:	73070	7
31. Business/Ferm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost 35.  Appraisal: Gerald W. Springstead II	\$2,000 x Signed:	\$6,650 (Not in	Phase Total)	TÖTAL ESTIMAT	[75070 [73073	7
31. Business Ferm 32. Personal Property 33. (Lines 28 thru 32) 34. Relocation Services Cost 35.  Appraisal: Bus. Dam.: Relocation:  Gerald W. Springstead II  Gerald W. Springstead II	\$2,000 x  Signed: Signed: Signed: Signed:	\$6,650 (Not in	(All Phases)	TOTAL ESTIMAT  Date: Date: Date:	[   (75070   /3075   /6 <b>5</b> 0/6	) )}

			nictoirt :			AV POST	CCTIMATE		PBS&J#:	700103.30 5023
FM#;	2564221		Former WPW:	SEAL	EN RIGHT OF W.	N1 6031	ESTIMATE	District:	r doddr.	Seven
County:	Pasco		FAP No.:		1455-001-0			Dato:		30-Jen-01
State Rd.: Project Des.	41 SR 41 (US	301) from SR39 to	Alternate: CR54, One Way I	Pairs	POND 2-20B Using 6th St & U	S301.		C.E. Sequence		N/A
Parcels		Net		,	***************************************		Estimated Re	ocatees:	3	
Commercial Residential	- 1	<del>3</del>					Business Residential	-	<u>3</u>	
Unimproved	B	0					Signs	-	0	
Total Parcels	4	4					Special Total Relocat	aot .	3	
R/W SUPPORT C	nete ibuae	*	<del></del>				Total Holocat	Amount		
1. Direct Laber		(Parcels	4	×	13,000 =	Rate)		52,000		
2. Indirect Over	head	(Parcels	4	x	0 =	Rate)		0		`
3.			**********************	-	-			TOTAL PHASE 41		\$52,0
R/W OPS (PHASE 4. Appraisal Fe		Taiat				4	Parcels	x 12.000 =	Amount 48,000	
		ees Through Trial				Õ	Claims	x 19,000 =	40,000	
6. Court Report	ter & Proces		75%	X	4 =	3	Parceis	x 500 =	1,500	
7. Expert Witne 8. Mediators	855		75% 50%	X		3 2	Parcels Parcels	x 30,000 = 2,400 =	90,000 4,800	
9. Demolition,						4	Imprvmet	x 15,000 =	60,000	
10. Miscellaneou						1	Per Project		15.000	
11. Appraisal Fe 12.	e neview					NIA	Parcels :	TOTAL PHASE 48	Ū	\$219,3
R/W LAND COST:	S IPHASE AS		<del></del>	_		-			Subtotal	72,0,01
-	-	r everance Damages						MINNER	oud to tel	
and Cost to	Cure Amoun		0	x		Design pi		<b></b> 0		
14. Water Reten	ition & Mit.		322,138	X	130% (0		vio RIW Acq)	418,800		
15. SUBTOTAL 16. Admin. Settle	lamente (E		AEN	L.	20% 66	{Lines 13 Line 15}	&14)	_ EE E00 -	418,800	
17. Litigation Av		actor	45% 60%	x	***************************************	Line 15)	,	= 56,500 = 175,900		
8. Business Der		laims	D	X	)			= 0		
9. Bus. Damage			25%	X	\$0 )			= <u>0</u>		
20. Owner Appr. 21. Owner CPA I		arcels Iaims	<u>3</u>	X	\$10,000			<u>30,000</u>		
22. Defend.Atty		um of Lines 16,17&		x	\$10,000 } 40% }		•	93,000		
		omm. + Unimproved)		+		18,000		= 54,000 = 54,000		
24. Other Conde	mn. Costs		4	X	<b>\$500</b>			2,000		
25. SUBTOTAL 26.						(Lines 16	thru 24) 1	TOTAL DUACE AS	411,400	4000.0
	gency for de:	sign plan stage:			•			TOTAL PHASE 43		\$830,2
		(2) 30% plans - 12	25% (3) 60% pla	ns · f	120% (4) 90% pla	ns -115%	(5) 268 Date	-110%		
R/W ACQUISITIO	N CONSULT	ANT (PHASE 42)								
27.	CTC IDUACT	46)		***************************************				TOTAL PHASE 42		!
RELOCATION CO:	STS (PHASE Replaceme		•		Number		Amount			
28. Owner			\$20,000	x	1	•	20,000			
29. Tenant			\$10,000	x	1	=	10,000			
O Danistanala	Move Cost	\$	44 ***		_					
		S	\$1,500	x	2	_	3,800			
31. Business/Far	ım	S	\$20,000	X X	2 3 3	=	60,000			
31. Business/Far 32. Personal Pro	rm operty	s		x x	2 3 3	=======================================		TOTAL PHASE 45		\$99,0
31. Business/Far 32. Personal Pro 33. {Lines 28 thr	rm operty ru 32)		\$20,000	x x	3	=	60,000	TOTAL PHASE 45		\$93,0
31. Business/Far 32. Personal Pro 33. {Lines 28 thr 34. Relocation S	rm operty ru 32)		\$20,000	x x x	3	=	60,000 \$6,000	TOTAL PHASE 45		
31. Business/Far 32. Personal Pro 33. {Lines 28 thr 34. Relocation S 35.	rm operty ru 32) Services Cost		\$20,000	x x x	3 \$9,900	=	60,000 \$6,000 hase Total}	TOTAL ESTIMATE		<b>\$1,200,5</b>
31. Business[Far 32. Personal Pro 33. {Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. :	rm operty ru 32) Services Cost Gerald W.:	Springstead II	\$2,000 \$2,000 Signed:	x x	3	=	60,000 \$6,000 hase Total}	TOTAL ESTIMATE Date: Date:		<b>\$1,200,5</b>
31. Business/Far 32. Personal Pro 33. {Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam. : Relocation:	operty ru 32) Services Cost  Gerald W.: N/A  Gerald W.:	Springstead II Springstead II	\$2,000 \$2,000 Signed: Signed: Signed:	×××	3 \$9,900	=	60,000 \$6,000 hase Total}	TOTAL ESTIMATE Date: Date: Date:	(130/0) (130/0)	\$1,200.5
30. Residential- 31. Business/Far 32. Personal Pro 33. {Lines 28 thr 34. Relocation S. 35.  Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	operty ru 32) Services Cost  Gerald W.: NIA Gerald W. Norris L. S	Springstead II Springstead II	\$2,000 \$2,000 Signed:	×××	\$9,900	=	60,000 \$6,000 hase Total}	TOTAL ESTIMATE Date: Date:	[/30/0] [/30/0]	<b>\$1,200,</b> 5

					PEPARTMENT OF				PBS&J#:	700103.30 5023
	fM#:	256422		Former WPW:	EVEN RIGHT OF W	ATLUS	LESTIMATE	District:	PB30GJ#:	Seven
	County:	Pasco	. 1	FAP No.:	1455-001-U			Date:		36-Jan-01
	State Rd.:	41		Aiternate:	POND 2-21			C.E. Sequence		NIA
	Project Des. Parcels	SR 41 (	US 301) from SR39 to Net	CH54, Une Way P	airs Using 6th St & C	18301.	Estimated Re	Incatnes:		
	Commercia!	0.033	C				Business		0	
	Residential	4	<u> </u>				Residential		<u>17</u>	
	Unimproved	0	0				Signs Special		1	
	Total Parcels	4	4				Total Relocat	888	18	
	R/W SUPPORT C	OSTS (PH	IASE 41)		······································			Amount		
	1. Direct Labor		(Parcels	4	x 13,000 =			52,000		
	2. Indirect Over	head	(Parcels	4	x v	* Rate	)	D DULET 4		<b>★</b> C 2 000
	3.	45)		<del>                                      </del>			<del> </del>	TOTAL PHASE 4	Amount	\$52,000
,	R/W OPS (PHASE 4. Appraisal Fe		ah Trisl			4	Parcels	x 12,000 =		
	5. Business Dai	mage CP	A Fees Through Trial			0	Claims	x 19,000 =		
	6. Court Report 7. Expert Witne		cess Servers	75%	x 4	- 3 - 3	Parcels Parcels	x 500 = x 30,000 =		
	8. Mediators	955		50%	x -4	. 2	Parcels	x 2,400 =		
			e., Survey, etc.		· · · · · · · · · · · · · · · · · · ·	4	Imprvmet	x 15,000 =		
	10. Miscellaneou 11. Appraisal Fe					H/A	Per Project Parcels	x 15,000 = x 5,000 =		
	12.	C 11C41C41				МА	1 81 6 613	TOTAL PHASE 4		\$219,300
	RIW LAND COST	S (PHASE	43)	<del></del>				Amount	Subtotal	
•	1 '	-	3 Severance Damages							
	and Cost to			0			olan staga	=0		
	14. Water Reten	tion & M	it.	465,143	x130%_(	Parcels (Lines 1)	wio R/W Acq)	604,700	CO4 700	
	15. SUBTOTAL 16. Admin. Settl	etnema	(Fector	45%	v 30% o	Lines 1. (Line 15)		= 81,600	604,700	
	17. Litigation Av		(Factor	60%	***************************************	f Line 15)		= 254,000		
	18. Business Da		(Claims	Ð	x \$B			= 0		
	19. Bus. Damage			25%	x \$0}			<b>=</b> 0		
	20. Owner Appr. 21. Owner CPA i		(Parcels (Claims	3 0	x \$10,000 }			= 30,000 = 0		
	22. Defend.Atty		(Sum of Lines 16,178		x \$10,000 } x 40% }			= 134,200		
			:{Comm.+Unimproved			18,800	)	= <u>104,250</u>		
	24. Other Conde			4	x \$500		-	= 2,000		
	25. SUBTOTAL					(Lines 1)	6 thru 24)	=	<del>5</del> 01,800	44400.500
	25. SUBTOTAL 26.	raneu for	decigo plan etaga:			(Lines 1)	6 thru 24)	TOTAL PHASE 4		\$1,106,500
	25. SUBTOTAL 26. * Design conting		design plan stage: 0% (2) 30% plans - 1.	25% (3) 60% plan	s · 120% (4) 90% ph			**************************************		\$1,106,500
	25. SUBTOTAL 26. * Design conting (1) PD&E p	ilans - 13		25% (3) 60% plan	s · 120% (4) 90% ph			**************************************		\$1,106,500
	25. SUBTOTAL 26. * Design conting (1) PD&E p	ilans - 13	0% (2) 30% plans - 1.	25% (3) 60% plan	s · 120% (4) 90% ph			**************************************	3	\$1,106.500 \$0
	25. SUBTOTAL 26. * Design conting (1) PD&E p B/W ACQUISITIO	<i>nians - 13</i> N CONSU	<i>10% (2) 30% plans - 1.</i> ILTANT (PHASE 42)	25% (3) 60% plan	s · 120% (4) 90% ph			-110%	3	
	25. SUBTOTAL 26. * Design conting (1) PD&E p BIW ACQUISITIO 27. RELOCATION CO:	olans - 13 n consu sts (Pha	<i>10% (2) 30% plans - 1.</i> ILTANT (PHASE 42)		Number		<i>(5) 268 Date</i> Amount	-110%	3	
	25. SUBTOTAL 26. * Design conting (1) POSE p  BIW ACQUISITIO 27. RELOCATION CO: 28. Owner	olans - 13 n consu sts (Pha	<i>0% (2) 30% plans - 1.</i> LTANT (PHASE 42) (SE 45)	<b>\$20,00</b> 0	Number x 3	ans -115%	4 (5) 268 Date Amount 60,000	-110%	3	
	25. SUBTOTAL 26. * Design conting (1) PD&E p BIW ACQUISITIO 27. RELOCATION CO:	n consu STS (PHA Reptace	0% (2) 30% plans - 1. HITANT (PHASE 42) ISE 45) Iment Housing		Number	ans -115%	<i>(5) 268 Date</i> Amount	-110%	3	
	25. SUBTOTAL 26. * Design conting (1) POSE p  BIW ACQUISITIO 27. RELOCATION CO: 28. Owner	olans - 13 n consu sts (Pha	0% (2) 30% plans - 1. HITANT (PHASE 42) ISE 45) Iment Housing	\$20,000 \$10,000	Number x 3	ans -115%	Amount 60,000 140,000	-110%	3	
	25. SUBTOTAL 26. * Design conting (1) PD&F p  R/W ACQUISITIO 27.  RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Fer	N CONSU STS (PHA Replace Move C	0% (2) 30% plans - 1. HITANT (PHASE 42) ISE 45) Iment Housing	<b>\$20,00</b> 0	Number x 3 x 14	ans -115%	4 (5) 268 Date Amount 60,000	-110%	3	
	25. SUBTOTAL 26. * Design conting (1) PD&F p  R/W ACQUISITIO 27.  RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Fer 32. Personal Pro	N CONSU STS (PHA Replace Move C	0% (2) 30% plans - 1. HITANT (PHASE 42) ISE 45) Iment Housing	\$20,000 \$10,000 \$1,500	Number x 3 x 14 x 17	ans -115%	Amount 80,000 140,000	.110%	2	\$0
	25. SUBTOTAL 26. * Design conting (1) PO&E p  B/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Fer 32. Personal Pro 33. (Lines 28 thr	N CONSU STS (PHA Replace Move C	0% (2) 30% plans - 1.  ILTANT (PHASE 42)  ISE 45)  Imment Housing  osts	\$20,000 \$10,000 \$1,500 \$20,000	Number x 3 x 14 x 17 x 0 x 1	### ### ### ##########################	Amount 60,000 140,000 0 \$2,000	-110%	2	
	25. SUBTOTAL 26. * Design conting (1) PD&E p  RIW ACQUISITIO. 27.  RELOCATION CO: 28. Owner 29. Tenant 30. Residential: 31. Business(Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S	N CONSU STS (PHA Replace Move C	0% (2) 30% plans - 1.  ILTANT (PHASE 42)  ISE 45)  Imment Housing  osts	\$20,000 \$10,000 \$1,500 \$20,000	Number x 3 x 14 x 17 x 0	### ### ### ### ######################	Amount 80,000 140,000 0	TOTAL PHASE 4	2	\$0 \$227,500
	25. SUBTOTAL 26. * Design conting (1) PO&E p  B/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Fer 32. Personal Pro 33. (Lines 28 thr	N CONSU STS (PHA Replace Move C	0% (2) 30% plans - 1.  ILTANT (PHASE 42)  ISE 45)  Imment Housing  osts	\$20,000 \$10,000 \$1,500 \$20,000	Number x 3 x 14 x 17 x 0 x 1	### ### ### ### ######################	Amount 60,000 140,000 0 \$2,000	.110%	2	\$0
	25. SUBTOTAL 26. * Design conting (1) POSE p  B/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Fer 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal:	N CONSU STS (PHA Beplace Move C m perty u 32) ervices C	0% (2) 30% plans - 1.  ILTANT (PHASE 42)  ISE 45)  Imment Housing  osts	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000	Number x 3 x 14 x 17 x 0 x 1	### ### ### ### ######################	Amount 80,009 140,000 0 \$2,508 0 \$2,000	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT	2	\$227,500 \$227,500
	25. SUBTOTAL 26. * Design conting (1) POSE p  R/W ACQUISITIO 27.  28. Owner 29. Tenant 30. Residential 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisel: Bus. Dam.:	N CONSU STS (PHA - Replace Move C m perty u 32) ervices C Gerald NA	0% (2) 30% plans - 1.  ILTANT (PHASE 42)  ISE 45)	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$3,000	Number x 3 x 14 x 17 x 0 x 1  \$22,750	### ### ### ### ######################	Amount 80,009 140,000 0 \$2,508 0 \$2,000	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date:	3 2 5 1E	\$227,500 \$1,505,300
	25. SUBTOTAL 26. * Design conting (1) POSE p  B/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Fer 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal:	Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C	0% (2) 30% plans - 1.  ELTANT (PHASE 42)  ISE 45)  Imment Housing  osts	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000	Number x 3 x 14 x 17 x 0 x 1  \$22,750	### ### ### ### ######################	Amount 80,009 140,000 0 \$2,508 0 \$2,000	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date:	5 [E []30/6	\$227,500 \$227,500 \$1,605,300
	25. SUBTOTAL 26. * Design conting (1) POSE p  B/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review:	Mova C  Mova C  Mova C  Mova C  Mova C  Mova C  Mova C  Mova C  Mova C  Mova C  Mova C	0% (2) 30% plans - 1.  ILTANT (PHASE 42)  ISE 45)  Imment Housing  Osts  Ost  W. Springstead II  W. Springstead II  C. Smith	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000	Number x 3 x 14  x 17 x 0 x 1  \$22,750	### ### ### ### ######################	Amount \$0,009 140,000 0 \$2,500 0 \$2,000 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date:	3 2 5 (130/0	\$227,500 \$227,500 \$1,605,300
	25. SUBTOTAL 26. * Design conting (1) POSE p  R/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	Mova C  Mova C  Mova C  Mova C  Mova C  Mova C  Mova C  Mova C  Mova C  Mova C  Mova C	0% (2) 30% plans - 1.  ILTANT (PHASE 42)  ISE 45)  ISE 45	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000	Number x 3 x 14 x 17 x 0 x 1  \$22,750	### ### ### ### ######################	Amount \$0,009 140,000 0 \$2,500 0 \$2,000 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date:	3 2 5 (130/0	\$227,500 \$227,500 \$1,605,300
	25. SUBTOTAL 26. * Design conting (1) POSE p  B/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review:	Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C	0% (2) 30% plans - 1.  HITANT (PHASE 42)  USE 45)  Imment Housing  Osts  Ost  W. Springstead II  W. Springstead II  Smith  Dated:	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000	Number x	### ### ### ### ######################	Amount \$0,009 140,000 0 \$2,500 0 \$2,000 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date:	3 2 5 (130/0	\$227,500 \$227,500 \$1,605,300
	25. SUBTOTAL 26. * Design conting (1) POSE p  R/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C	0% (2) 30% plans - 1.  ILTANT (PHASE 42)  ISE 45)  Imment Housing  Osts  Ost  W. Springstead II  W. Springstead II  C. Smith	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000	Number x	### ### ### ### ######################	Amount \$0,009 140,000 0 \$2,500 0 \$2,000 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date:	3 2 5 (130/0	\$227,500 \$227,500 \$1,605,300
	25. SUBTOTAL 26. * Design conting (1) POSE p  R/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C	0% (2) 30% plans - 1.  HITANT (PHASE 42)  USE 45)  Imment Housing  Osts  Ost  W. Springstead II  W. Springstead II  Smith  Dated:	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000	Number x	### ### ### ### ######################	Amount \$0,009 140,000 0 \$2,500 0 \$2,000 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date:	3 2 5 (130/0	\$227,500 \$227,500 \$1,605,300
	25. SUBTOTAL 26. * Design conting (1) POSE p  R/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C	0% (2) 30% plans - 1.  HITANT (PHASE 42)  USE 45)  Imment Housing  Osts  Ost  W. Springstead II  W. Springstead II  Smith  Dated:	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000	Number x	### ### ### ### ######################	Amount \$0,009 140,000 0 \$2,500 0 \$2,000 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date:	3 2 5 (130/0	\$227,500 \$227,500 \$1,605,300
	25. SUBTOTAL 26. * Design conting (1) POSE p  R/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C	0% (2) 30% plans - 1.  HITANT (PHASE 42)  USE 45)  Imment Housing  Osts  Ost  W. Springstead II  W. Springstead II  Smith  Dated:	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000	Number x	### ### ### ### ######################	Amount \$0,009 140,000 0 \$2,500 0 \$2,000 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date:	3 2 5 (130/0	\$227,500 \$227,500 \$1,605,300
	25. SUBTOTAL 26. * Design conting (1) POSE p  R/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se	Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C	0% (2) 30% plans - 1.  HITANT (PHASE 42)  USE 45)  Imment Housing  Osts  Ost  W. Springstead II  W. Springstead II  Smith  Dated:	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000	Number x	### ### ### ### ######################	Amount \$0,009 140,000 0 \$2,500 0 \$2,000 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date:	3 2 5 (130/0	\$227,500 \$227,500 \$1,605,300
	25. SUBTOTAL 26. * Design conting (1) PD&E p  RIW ACQUISITIO. 27.  RELOCATION CO: 28. Owner 29. Tenant 30. Residential: 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se  REMARKS:	Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Move C Mo	0% (2) 30% plans - 1.  HITANT (PHASE 42)  USE 45)  Iment Housing  Osts  Ost  W. Springstead II  W. Springstead II  Smith  Dated:  21 is one of the pond	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000	Number x 3 x 14 x 17 x 0 x 1 1	### ### ### ### ######################	Amount \$0,000 140,000 0 \$25,500 0 \$2,000 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date: Date: Date:	5 [E     30/6   tion Date:	\$227,580 \$1,805,300 3)
	25. SUBTOTAL 26. * Design conting (1) PD&E p  RIW ACQUISITIO. 27.  RELOCATION CO: 28. Owner 29. Tenant 30. Residential: 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se  REMARKS:	Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C	0% (2) 30% plans - 1.  ILTANT (PHASE 42)  ISE 45) Iment Housing  Osts  Ost  W. Springstead II  W. Springstead II  C. Smith  C. Dated:  21 is one of the pond	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000	Number x 3 x 14 x 17 x 0 x 1 1	### ### ### ##########################	Amount \$0,009 140,000 0 \$2,500 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date:	5 [E     30/6   tion Date:	\$227,500 \$227,500 \$1,605,300
	25. SUBTOTAL 26. * Design conting (1) POSE p  B/W ACQUISITIO 27. RELOCATION CO: 28. Owner 29. Tenant 30. Residential: 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate Se REMARKS:	Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C	### (2) 30% plans - 1.  ###################################	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000 signed: Signed: Signed: Signed: Signed: alternatives for Balance age confidence	Number x 3 x 14 x 17 x 0 x 1 1	### ### ### ##########################	Amount \$0,000 140,000 0 \$25,500 0 \$2,000 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMA  Date: Date: Date: Date: Date: Total Completed  Future Value Factor  Year One Year Two	5 [E     30/6   tion Date:	\$227,580 \$1,505,300 \$1,1005 1,1000 1,2100
	25. SUBTOTAL 26. * Design conting (1) PD&E p  RIW ACQUISITIO. 27.  RELOCATION CO: 28. Owner 29. Tenant 30. Residential: 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se  REMARKS:	Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C	ON (2) 30% plens - 1.  HITANT (PHASE 42)  USE 45)  Iment Housing  Osts  Ost  W. Springstead II  W. Springstead II  Smith  Dated:  21 is one of the pond	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000  Signed: Signed: Signed: Signed: Signed: Signed: alternatives for Balance age confidence age confidence	Number x 3 x 14 x 17 x 0 x 1 1	### ### ### ##########################	Amount 80,009 140,000 0 \$2,500 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAT  Date: Date: Date: Date: Date: Date: Total Completed  Future Value Factor  Year Two  Year Three	5 [E     30/6   tion Date:	\$227,500 \$1,505,300 \$1,505,300 3) \$1,100 1,2100 1,2100 1,3310
	25. SUBTOTAL 26.  * Design conting (1) POSE p  B/W ACQUISITIO 27.  RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:  The following inc	Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C  Move C	10% (2) 30% plans - 1.  ILTANT (PHASE 42)  ISE 45) Iment Housing  Osts  Ost  W. Springstead II  W. Springstead II  V. Smith  C. Dated:  21 is one of the pond  The estimator's confider indicates the most confider indicates the most confider indicates below aver indicates below aver indicates the least or indicates the le	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3,000 Signed: Signed: Signed: Signed: Signed: alternatives for Banca in the above as confidence age confidence are confidence or no confidence	Number  x 3 x 14  x 17 x 0 x 1  \$22,750	### ### ### ##########################	Amount \$0,009 140,000 0 \$2,500 0 \$2,000 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMA  Date: Date: Date: Date: Date: Total Completed  Future Value Factor  Year One Year Two	5 [E     30/6   tion Date:	\$227,580 \$1,505,300 \$1,1005 1,1000 1,2100
	25. SUBTOTAL 26.  * Design conting (1) POSE p  B/W ACQUISITIO 27.  RELOCATION CO: 28. Owner 29. Tenant 30. Residential 31. Business/Far 32. Personal Pro 33. (Lines 28 thr 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate Se REMARKS:  The following inc	Move C  Move C  Move C  Gerald  Noris I  Replaces  Move C  Gerald  NA  Gerald  Noris I  Pand 2-  Type A  Type B  Type C  Type D  dicates th	ON (2) 30% plens - 1.  HITANT (PHASE 42)  USE 45)  Iment Housing  Osts  Ost  W. Springstead II  W. Springstead II  Smith  Dated:  21 is one of the pond	\$20,000 \$10,000 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3,000 Signed: Signed: Signed: Signed: Signed: alternatives for Banca in the above as confidence age confidence are confidence or no confidence	Number x 3 x 14 x 17 x 0 x 1 1	ens - 115%	Amount \$0,009 140,000 0 \$2,500 0 \$2,000 (All Phases)	TOTAL PHASE 4  TOTAL PHASE 4  TOTAL PHASE 4  TOTAL ESTIMAL  Date: Date: Date: Date: Date: Date: Total Estimal	5 [E     30/6   tion Date:	\$227,580 \$1,805,300 \$1,1005 1,1000 1,2100 1,3310 1,4641 1,6105

Country   Pasco   FAP No.:   1455-001-1   Date:   30-Jan   Milk   Project Des.   SR 41 (US 301) from SR39 to ERS 4, 0ne Way Pairs Using 8th St 8 US301   Estimated Relocations:   Commercial   To   State   To   St	County: Pasco FAP State Rd: 41 Alte Project Des. SR 41 (US 301) from SR39 to CR54. Percels Gross Not Commercial 1 1 Residential 5 5 5 Unimproved 0 0  Total Parcels 6 6  R/W SUPPORT COSTS (PHASE 41) 1. Direct Labor Cost (Parcels 2. Indirect Overhead (Parcels 3.  R/W OPS (PHASE 4B) 4. Appraisal Faes Through Trial 5. Business Damage CPA Fees Through Trial 6. Court Reporter & Process Servers 7. Expert Witness 8. Mediators 9. Demolition, Asb. Abate., Survey, etc.	No.: rnate: , One Way Pairs  6 x 6 x  75% x 75% x	1455-001-U POND 2-22 Using 6th St & US301.  13,090 = Ra 0	Business Residential Signs Special Total Relocat ste) te) Parcels Claims Parcels Parcels	Date: C.E. Sequence  locatees:  Bess  Amount 78,000 0  TOTAL PHASE 41  x 12,000 = 72,00 x 19,008 = 2,500 = 2,500	30-Jan-01 N/A 2 4 0 3 3 9
Parcels   Grass   Not	Parcels Gross Net Commercial 1 1 Residential 5 5 5 Unimproved 0 0 Total Parcels 6 6 RIW SUPPORT COSTS (PHASE 41) 1. Direct Labor Cost (Parcels 2. Indirect Overhead (Parcels 3. RIW OPS (PHASE 4B) 4. Appraisal Fees Through Trial 5. Business Damage CPA Fees Through Trial 6. Court Reporter & Process Servers 7. Expert Witness 8. Mediators 9. Demolition, Asb. Abate., Survey, etc. 10. Miscollaneous Contracts 11. Appraisal Fee Review 12. RIW LARD COSTS (PHASE 43)	6 x 6 x 75% x 75% x	13,000 × Ra 0 × Ra 6 0 6 0 5 × 5	Business Residential Signs Special Total Relocat ste) te) Parcels Claims Parcels Parcels	Amount 78,000 0 TOTAL PHASE 41  x 12,000 = 72,00 x 19,008 = 2,50	4 0 3 5 5
New Support Costs (Plase 4)   1. Direct Labor Cost   Parcels   6 x   13.000   Rate)   77.000	R/W SUPPORT COSTS (PHASE 41)  1. Direct Labor Cost (Parcels 2. Indirect Overhead (Parcels 3.  R/W OPS (PHASE 4B)  4. Appraisal Fees Through Trial 5. Business Damage CPA Fees Through Trial 6. Court Reporter & Process Servers 7. Expert Witness 8. Mediators 9. Demolition, Asb. Abate., Survey, etc. 10. Miscellaneous Contracts 11. Appraisal Fee Review 12.  R/W LAND COSTS (PHASE 43)	6 x 75% x 75% x	0 × Ra	Parcels Claims Parcels Parcels	Amount 78,800 0  TOTAL PHASE 41  x 12,000 = 72,00 x 19,000 = 2,50 x 500 = 2,50	0
Parcels   Comment   Comm	2. Indirect Overhead (Parcels 3.  R/W OPS (PHASE 4B) 4. Appraisal Fees Through Trial 5. Court Reporter & Process Servers 7. Expart Witness 8. Mediators 9. Desmolition, Asb. Abate., Survey, etc. 10. Miscellaneous Contracts 11. Appraisal Fee Review 12.  R/W LARD COSTS (PHASE 43)	6 x 75% x 75% x	0 × Ra	Parcels Claims Parcels Parcels	TOTAL PHASE 41  x 12,088 = 72,68  x 19,080 = 2,50  x 500 = 2,50	0
4. Appraisal Fees Through Trial   5   Parcels   12,000   72,000	4. Appraisal Fees Through Trial 5. Business Damage CPA Fees Through Trial 6. Court Reporter & Process Servers 7. Expert Witness 8. Mediators 9. Demolition, Asb. Abate., Survey, etc. 10. Miscellaneous Contracts 11. Appraisal Fee Review 12. R/W LAND COSTS (PHASE 43)	75% x	<u>6</u> * 5	Claims Parcels Parcels	x 12,000 = 72,00 x 19,000 = x 500 = 2,50	0
RIW LAND COSTS (PHASE 43)   13. Land, Improvements & Severance Dameges and Cost to Cure Amount   0   x   130%   Design plan stage   0   517,700	R/W LAND COSTS (PHASE 43)		1 11/4	Imprvmet Per Project	x 2,400 = 7,20 x 15,000 = 90,00 x 15,000 = 15,00	<u>0</u> 0 0
A	13. Land, Improvements & Severance Damages				<del></del>	
17. Litigation Awards	14. Water Retention & Mit. 15. SUBTOTAL	398,226 x	130% (O Perce (Lines	ls w/o R/W Acq) : 13 &14)	<u>517,700</u> 517,70	<u>10</u>
22. Defend.Atty Fees {Sum of Lines 16,178; 287,300 x 40% } = 114,900 23. Owner Expert Witnes (Comm.+Unimproved) 1 + 0 ) 18,000 = 18,000 24. Other Condemn. Costs 6 x \$500 = 3,000 25. SUBTOTAL (Lines 16 thru 24) = 473,200 26. ** Design contingency for design plan stage: (TOTAL PHASE 43) 27. ** Design contingency for design plan stage: (1) PD&E plans - 130% (2) 30% plans - 125% (3) 60% plans - 120% (4) 90% plans - 115% (5) 288 Date - 110%  28. Owner 29. Tenant 40000 x 2 = 40,000 x 2 = 40,000 29. Tenant 510,000 x 2 = 40,000 31. Business/Farm 420,000 x 2 = 40,000 32. Personal Property \$2,000 x 3 = \$6,000 31. Business/Farm 420,000 x 3 = \$6,000 32. Personal Property \$2,000 x 3 = \$6,000 33. (Lines 28 thru 32) 34. Relocation Services Cost \$11,200 {Not in Phase Total}  35. (All Phases)    TOTAL PHASE 45   17. Litigation Awards (Factor 18. Business Damages (Cleims 19. Bus. Damages Incrs. (Factor 20. Owner Appr. Fees (Parcels	60% x 0 x 25% x 5 x	70% of Line 1 \$0 ) \$0 ) \$10,000 )		= 217,490 = 0 = 0 = 50,800		
TOTAL PHASE 43	22. Defend.Atty Fees (Sum of Lines 16,17&: 23. Owner Expert Witnes: (Comm. + Unimproved) 24. Other Condemn. Costs	287,300 x 1 +	40%) 0)> 18,0 \$500		= 114,900 = 18,000 = 3,000	10
TOTAL PHASE 42   TOTAL PHASE 42	26. * Design contingency for design plan stage:	(3) 60% plans - 1			TOTAL PHASE 43	
Replacement Housing   Replacement Housing   Replacement Housing   Replacement Housing   Replacement Housing   Replacement Housing   Replacement Housing   Replacement Housing   Replacement Housing   Replacement Housing   Replacement Housing   Replacement Housing   Replacement Housing   Replacement Housing   Replacement   Replacement Housing   Replac	27.				TOTAL PHASE 42	
1,506 x   4   = 6,000	Replacement Housing 28. Owner 29. Tenant		2 ==	40,000		
33. (Lines 28 thru 32)  34. Relocation Services Cost \$11,200 (Not in Phase Total)  35. (All Phases) TOTAL PHASE 45  Appraisal: Gerald W. Springstead II Signed: Date: 1/30/0)  Bus. Dam.: N/A Signed: Date: Date: 1/30/0)  Relocation: Gerald W. Springstead II Signed: Date: 1/30/0)	30. Residential 31. Business/Farm	\$20,000 x		40,000		
Appraisal: Gerald W. Springstead II Signed: Date: 1/30/07 Bus. Dam.: N/A Signed: Date: Relocation: Gerald W. Springstead II Signed: Date: 1/30/07	33. (Lines 28 thru 32)	K			TOTAL PHASE 45	
Bus. Dam.: NIA Signed: Date: Relocation: Gerald W. Springstead II Signed: Date: 130/0)	35.		~	(All Phases)		
	Bus. Dam. : N/A Sign Relocation: Gerald W. Springstead II Sign	ned:	MUSE MUSE		Date: /30/	0)

			FLORIDA	DEF	ARTMENT OF	TRANSPO	DRTATION			
			DISTRICT S	SEV	EN RIGHT OF W	AY COST	ESTIMATE		PBS&J#:	700103.30 5023
FM#:	2564221		Former WPW:		N/A			District:		Seven
County: State Rd.:	Pasco 41		FAP No.: Alternate:		1455-001-U POND 2-23			Date: C.E. Sequence		39-Jan-01 N/A
Project Des.		S 301) from SR39 to		airs		J\$301.		C.L. Suquente		nite.
Parcels	Gross	Net			· · · · · · · · · · · · · · · · · · ·		Estimated Re	locatees:	_	
Commercia!	1	<del>1</del>					Business		0	
Residential Unimproved	0	0					Residentia! Signs		- 0	
Cilinpi Cito		<del></del>					Special		<u>0</u>	
Total Parcels	1	1					Total Relocat	885		
R/W SUPPORT C	OSTS (PHA	SE 41)						Amount		
1. Direct Labor		(Parcels		X	13,000			13,000		
2. Indirect Over	rhead	(Parcels	1	X	0 •	· Rate)		0	·	
3.								TOTAL PHASE 4		\$13,000
RIW OPS (PHASE		. Yutu1					N	x 12,000 =	Amount 12,000	
4. Appraisal Fe 5. Business Da		Fees Through Triel				Ó	Parcels Claims	x 12,000 = x 19,000 =		
6. Court Repor			75%	x	1	= 1	Parceis	x 500 =		
7. Expert Witne	8\$\$		75%	X		• 1	Parcels	x 30,000 w		
8. Mediators 9. Demolition.	Ach Abata	., Survey, etc.	50%	X		• }	Parcels Imprimet	x 2,480 = x 15,000 =		
10. Miscellaneo						i		x 15,000 =		
11. Appraisal Fe		,-				NIA	*	x 5.000 =		
12.								TOTAL PHASE 4	В	<b>\$74,900</b>
RIW LAND COST	S (PHASE	13)						Amount	Subtotal	
1 -		Severance Damages								
and Cost to			0	x		Design p		<u> </u>		
14. Water Reten	rtion & Mit.	•	107,270	X	130% (		wlo R/W Acq)	139,500		
15. SUBTOTAL		<b>.</b> .	****		***	(Lines 13	&14)		139,500	
16. Admin. Settl		Factor	45%	X	***************************************	f Line 15)		= 0		
17. Litigation Av		Factor Claims	60% 0	X	100% 0	f Line 15)		≈ 83,700 ≈ 0		
18. Business Da 19. Bus. Damapi			25%	X	\$0 }			= 0		
20. Owner Appr		Parcels	1	X	\$10,000 }			₩ 10,000		
21. Owner CPA		Claims	Ō	x	\$10,000 }			= 0		
22. Defend.Atty	Fees {	Sum of Lines 16,17&	83,700	x	40% }			= 33,500		
		Comm. + Unimproved)	1	+		18,000		18,000		
24. Other Conde	ımn. Costs		1	X	\$500			≈ <u> </u>		
25. SUBTOTAL 26.						(Lines 16	thru 24)	Trore buler 4	145,700	000 2004
	anney for d	esign plan stage:						TOTAL PHASE 4	<u>J</u>	\$285,200
		% (2) 30% plans • 12	25% (3) 60% plai	75 · 1	120% (4) 90% pl	ans -115%	(5) 268 Date	-110%		
BIW ACQUISITIO	N CONSUL	TANT (PHASE 42)					•			
27.								TOTAL PHASE 4	2	\$0
RELOCATION CO	STS (PHAS	F 45)	<del></del>							
2		ient Housing			Number		Amount			
28. Owner		,,	\$20,000	x	0		0			
29. Tenant			\$10,000	x	1	=	10,000			
	Move Co:	sts st								
30. Residential			<b>\$1,500</b>	X	1	×	1,500			
31. Business/Fa		,	\$20,000	X	0	- =	0			
32. Personal Pro			\$2,000	X	0	**	<u> </u>			
33. (Lines 28 th								TOTAL PHASE 4	5	\$11,500
34. Relocation S	OJ 283IVIBS	51			\$1,150	(Not in P	hase Total)		<u></u>	
35.							(All Phases)	TOTAL ESTIMA	Œ	\$384,600
Appraisal:	Gerald W	. Springstead II	Signed:		Buse			Date:	1/30/0	))
Bus, Dam. :	NIA		Signed:					Date:		
Relocation: Overall Review:		. Springstead II	_Signed:			<u> </u>		_ Date:_	1/30/0	<u>,</u>
Overall neview:	Norris L.	SHIII	_Signed:	_		) - 6		Date:	1/30/	<b>&gt;</b> /
Cost Estimate Se	មជុបមាជម #:	Dated:	/	in t	he Amount of ‡			Data Input Comole	tion Date:	
REMARKS:	····		<del></del>	_						
	Pond 2-2	3 is one of the pond a	Iternatives for B	asin	8.					
1										
The following in		estimator's confiden		stim	ate:			Future Value Facto	rs 🖯	10%
<u> </u>		indicates the most co indicates above avera						Year One		1.1000
х		indicates above avera indicates below avera						Year Two Year Three		1.2190 1.3310
		indicates the least or						Year Four		1.4641
								Year Five		1.6105
		Department's purpos							_	
The following in Work Program U Comments:		Department's purpos	e for this estima Document to R			Ga	ming 1:	····	Special Purpose	<u> </u>

	ì					RANSPORTA			PBS&J#:	700103.30 5023
	FM#:	2564221		Former WPW:	EVEN RIGHT OF WA	(1 CUST EST		District:	rbaass:	Увитал. 38 5023 Ѕвитя
	County:	Pasco		FAP No.:	1455-001-0			Date:		30-Jan-01
	State Rd.:	41	41 danse CD20 4	Alternate:	POND 2-24 airs Using 6th St & US	201		C.E. Sequence		NIA
	Project Des. Parcels	Gross Ne		O CR34, OHE WAY F	ans osing our St & Da		nated Relo	catees:		
	Commercial	0	0			Busi			0	
	Residential  Unimproved	0	1			Hesu Sign:	dential *	-	0	
						Spec	ial	•	0	
•	Total Parcels	1	1			Tota	l Relocates		0	
	R/W SUPPORT C		•		x 13,000 =	Rate)		Amount 13,000		
	1. Direct Labor 2. Indirect Over		(Parcels (Parcels	<u>_</u>	x 13,000 ×	Rate)		13,000		
	3.		(, 0,00,0	<del></del>	" <del></del>			TOTAL PHASE 41		\$13,000
	R/W OPS (PHAS								Amount	
	4. Appraisal Fe 5. Business Da	ees Through Trie	al Through Teigl			1 Parc 0 Clair		12,000 =	12,000	
	6. Court Repor			75%	x 1 =	1 Parc		500 =	500	
	7. Expert Witn			75%	x 1 =	1 Parc		30,000 =	30,000	
	8. Mediators 9. Demolition	Asb. Abate., Su	rvav. etc.	50%	x=	1 Parc	els x vmet x	2,400 = 15,000 =	2,400 0	
	10. Miscellaneo	us Contracts				1 Per l	Project x	15,000 =	15,000	
	11. Appraisal Fe	ee Review				N/A Parc		5,000 =	8	AF0.000
	12.	10 (DU 40° 40)					-	TOTAL PHASE 48	<del></del>	\$59,900
	R/W LAND COST 13. Land, Impro		rance Damaca	•				Amount	Subtotal	
		voments a seve Cure Amount	·· >!!#> BRINDAG	0		Design plan st		0		
	14. Water Reter	ntion & Mit.		217,800	x 130% (0	Parcels w/o R/	(W Acq)	283,100		
	15. SUBTOTAL	lamanta (Face		#E4/		(Lines 13 &14) Line 15)	)	,	283,100	
	16. Admin. Sett 17. Litigation A			45% 60%	x 100% of			169,900		
	18. Business Da			0	x)			0		
	19. Bus. Damag			25%	x \$0)			0		
	20. Owner Appr 21. Owner CPA			<u>1</u> 0	x \$10,000)		=	10,000		
	22. Defend.Atty		ns of Lines 16,17		x \$10,000 \\ x 40% \)			68,000		
	23. Owner Expo					18,000	**	18,000		
	24. Other Conde	emn. Costs		1	x \$500		-	500		
	25. SUBTOTAL 26.					(Lines 16 thru		TOTAL BUACE 42	266,400	AF 40 F00
	1	gency for design	n nian stana:					TOTAL PHASE 43		<b>\$549,500</b>
	(1) PD&E	plans - 130% (2	) 30% plans -	125% (3) 60% plan	s · 120% (4) 90% plac	ns -115% (5) 2	268 Date - 1	110%		
	R/W ACQUISITION	ON CONSULTAN	T (PHASE 42)							
	27.			····				TOTAL PHASE 42		\$0
		1070/04/05 40	i}							
	RELOCATION CO		Maria de la companya della companya							
	-	Replacement	Housing	•20 DBD	Number	Amo				
			Housing	\$20,000 \$10,000		Amo:	unt 0			:
	28. Owner 29. Tenant		Housing	\$20,000 \$10,000	x0	Amo:	. 0			:
	28. Owner 29. Tenant 30. Residential	Replacement  Move Costs	Housing	\$10,000 \$1,500	x 0 x 0	Amo:	0 0			:
	28. Owner 29. Tenant 30. Residential 31. Business/Fa	Replacement  Move Costs	Housing	\$10,000 \$1,500 \$20,000	x 0 x 0 x 0 x 0	Amo	0 0			:
	28. Owner 29. Tenant 30. Residential	Replacement  Move Costs  irm  operty	Housing	\$10,000 \$1,500	x 0 x 0	Amo	0 0 0 0	TOTAL PHASE 45		: \$1
	28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pr	Replacement  Move Costs  irm operty ru 32)	Housing	\$10,000 \$1,500 \$20,000	x 0 x 0 x 0 x 0 x 0 x 0	Amo:	0 0 0 0	TOTAL PHASE 45		:
	28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pr 33. (Lines 28 th	Replacement  Move Costs  irm operty ru 32)	Housing	\$10,000 \$1,500 \$20,000	x 0 x 0 x 0 x 0 x 0 x 0	Not in Phase	0 0 0 0 \$0			
	28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pr 33. (Lines 28 th 34. Relocation S 35.	Replacement  Move Costs  frm operty ru 32} Services Cost		\$1,500 \$20,000 \$20,000 \$2,000	x 0 x 0 x 0 x 0 x 0 x 0	Not in Phase	0 0 0 0 \$0	TOTAL ESTIMATI	:	*0 \$522,400
	28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pr 33. (Lines 28 th 34. Relocation 5 35. Appraisal: Bus. Dam. :	Move Costs  irm operty ru 32) Services Cost  Gerald W. Spr	ringstead li	\$1,500 \$20,000 \$20,000 \$2,000 \$2,000	x 0 x 0 x 0 x 0 x 0 x 0	Not in Phase	0 0 0 0 \$0			
	28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pr 33. (Lines 28 th 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation:	Replacement  Move Costs  frm operty ru 32) Services Cost  Gerald W. Spr N/A Gerald W. Spr	ingstead li	\$1,500 \$1,500 \$20,000 \$2,000 \$2,000 Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 0 x 0	Not in Phase	0 0 0 0 \$0	TOTAL ESTIMATI Date: Date: Date:	:	
	28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pr 33. (Lines 28 th 34. Relocation 5 35. Appraisal: Bus. Dam. :	Replacement  Move Costs  frm operty ru 32) Services Cost  Gerald W. Spr N/A Gerald W. Spr	ingstead li	\$1,500 \$20,000 \$20,000 \$2,000 \$2,000	x 0 x 0 x 0 x 0 x 0 x 0	Not in Phase	0 0 0 0 \$0	TOTAL ESTIMATI Date: Date:	[/30/0]	
	28. Owner 29. Tenant 30. Residential 31. Business/fa 32. Personal Pr 33. (Lines 28 th 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate S	Move Costs  arm operty ru 32) Services Cost  Gerald W. Spr N/A Gerald W. Spr Norris L. Smit	ingstead li	\$1,500 \$20,000 \$2,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 0 x 0	Not in Phase	0 0 0 0 \$0 \$0 Total)	TOTAL ESTIMATI Date: Date: Date:	(/30/0) (/30/0) (/34/0	
	28. Owner 29. Tenant 30. Residential 31. Business/fa 32. Personal Pr 33. (Lines 28 th 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review:	Move Costs  from operty ru 32) Services Cost  Gerald W. Spr N/A Gerald W. Spr Norris L. Smit	ringstead li ringstead li Ih Dates	\$1,500 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 0 x 0 x 0	Not in Phase	0 0 0 0 \$0 \$0 Total)	TOTAL ESTIMATI  Date: Date: Date: Date:	(/30/0) (/30/0) (/34/0	
	28. Owner 29. Tenant 30. Residential 31. Business/fa 32. Personal Pr 33. (Lines 28 th 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate S	Move Costs  from operty ru 32) Services Cost  Gerald W. Spr N/A Gerald W. Spr Norris L. Smit	ringstead li ringstead li Ih Dates	\$1,500 \$20,000 \$2,000 \$2,000 \$2,000 Signed: Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 0 x 0 x 0	Not in Phase	0 0 0 0 \$0 \$0 Total)	TOTAL ESTIMATI  Date: Date: Date: Date:	(/30/0) (/30/0) (/34/0	
	28. Owner 29. Tenant 30. Residential 31. Business/fa 32. Personal Pr 33. (Lines 28 th 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate S	Move Costs  from operty ru 32) Services Cost  Gerald W. Spr N/A Gerald W. Spr Norris L. Smit	ringstead li ringstead li Ih Dates	\$1,500 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 0 x 0 x 0	Not in Phase	0 0 0 0 \$0 \$0 Total)	TOTAL ESTIMATI  Date: Date: Date: Date:	(/30/0) (/30/0) (/34/0	
	28. Owner 29. Tenant 30. Residential 31. Business/fa 32. Personal Pr 33. (Lines 28 th 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate S	Move Costs  from operty ru 32) Services Cost  Gerald W. Spr N/A Gerald W. Spr Norris L. Smit	ringstead li ringstead li Ih Dates	\$1,500 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 0 x 0 x 0	Not in Phase	0 0 0 0 \$0 \$0 Total)	TOTAL ESTIMATI  Date: Date: Date: Date:	(/30/0) (/30/0) (/34/0	
	28. Owner 29. Tenant 30. Residential 31. Business/fa 32. Personal Pr 33. (Lines 28 th 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate S	Move Costs  from operty ru 32) Services Cost  Gerald W. Spr N/A Gerald W. Spr Norris L. Smit	ringstead li ringstead li Ih Dates	\$1,500 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 0 x 0 x 0	Not in Phase	0 0 0 0 \$0 \$0 Total)	TOTAL ESTIMATI  Date: Date: Date: Date:	(/30/0) (/30/0) (/34/0	
	28. Owner 29. Tenant 30. Residential 31. Business/fa 32. Personal Pr 33. (Lines 28 th 34. Relocation S 35.  Appraisal: Bus. Dam.: Relocation: Overall Review: Cost Estimate S	Move Costs  from operty ru 32) Services Cost  Gerald W. Spr N/A Gerald W. Spr Norris L. Smit	ringstead li ringstead li Ih Dates	\$1,500 \$1,500 \$20,000 \$2,000 \$2,000 \$2,000 Signed: Signed: Signed:	x 0 x 0 x 0 x 0 x 0 x 0 x 0	Not in Phase	0 0 0 0 \$0 \$0 Total)	TOTAL ESTIMATI  Date: Date: Date: Date:	(/30/0) (/30/0) (/34/0	
	28. Owner 29. Tenant 30. Residential 31. Business/Fa 32. Personal Pr 33. (Lines 28 th 34. Relocation S 35. Appraisal: Bus. Dam. : Relocation: Overall Review: Cost Estimate S REMARKS:	Replacement  Move Costs  frm operty ru 32) Services Cost  Gerald W. Spi N/A Gerald W. Spi Norris L. Smit equence #:	ringstead if ringstead if th Dates one of the pand	\$1,500 \$20,000 \$20,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000	x	Not in Phase	0 0 0 \$0 Total)	TOTAL ESTIMATI  Date: Date: Date: Date: Date:	[/30/0] [/30/0] [/30/0] //30/0 ion Date:	<b>\$522,400</b>
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### APPENDIX E LAKE ZEPHYR WATERSHED DELINEATION MAPS

## Lake Zephyr Watershed

## STORMWATER AND FLOOD MANAGEMENT MASTER PLAN

FINAL REPORT

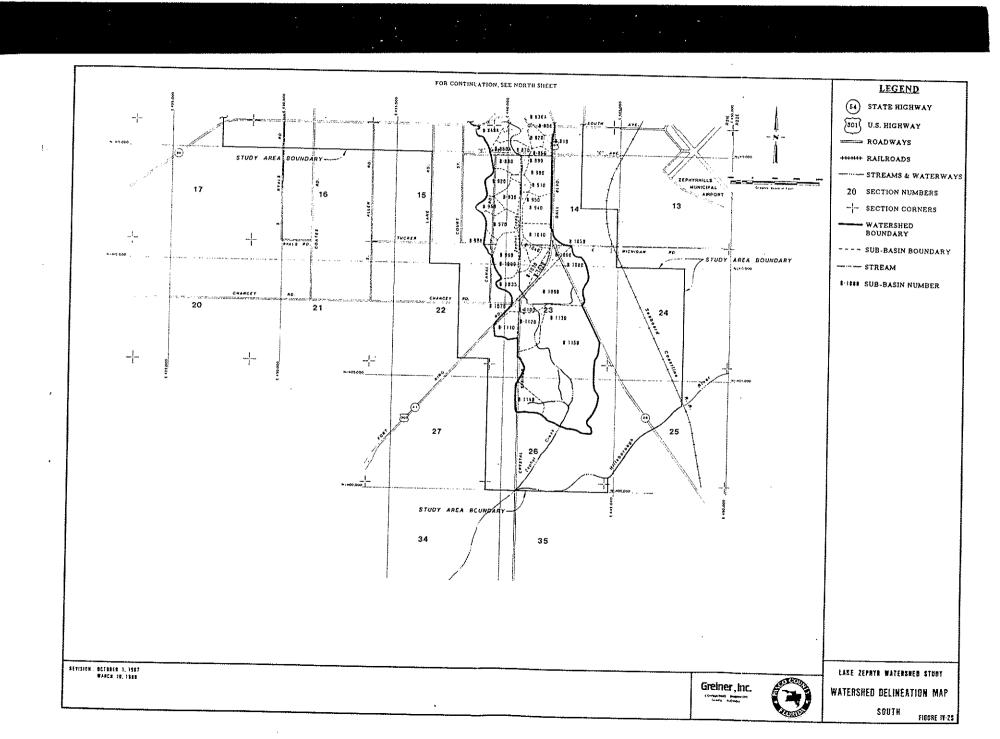
**April**, 1989

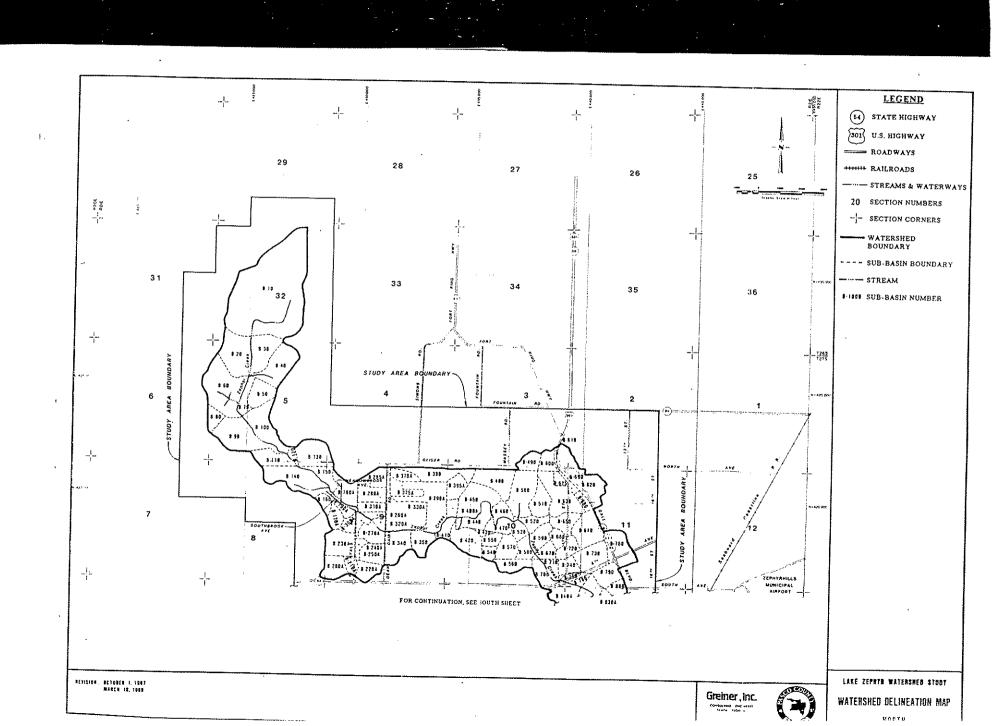


PREPARED FOR:

PASCO COUNTY
BOARD OF COUNTY COMMISSIONERS

By: Greiner, Inc. Tampa, Florida





### APPENDIX F LAKE ZEPHYR WATERSHED FLOOD PROFILES

# Lake Zephyr Watershed

STORMWATER AND FLOOD MANAGEMENT MASTER PLAN

FINAL REPORT

April, 1989

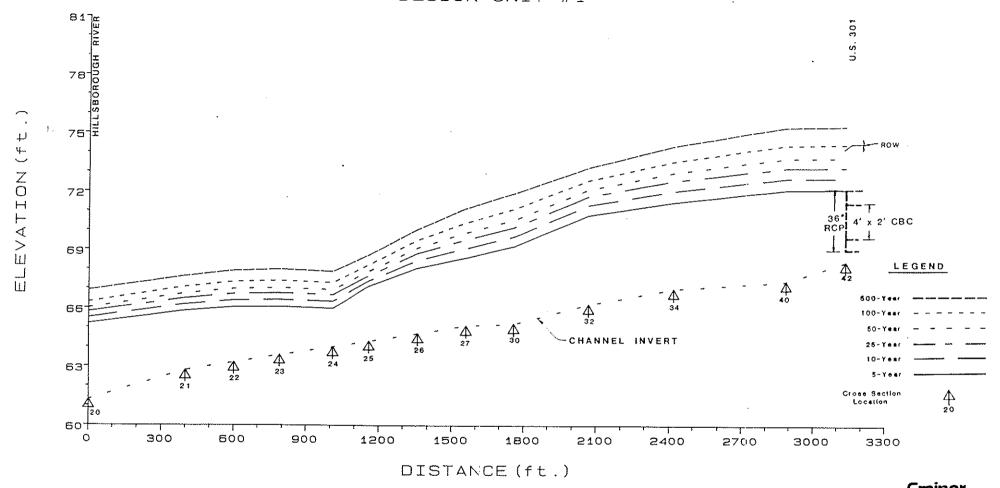


PREPARED FOR:

PASCO COUNTY
DOARD OF COUNTY COMMISSIONERS

By: Greiner, Inc. Tampa, Florida

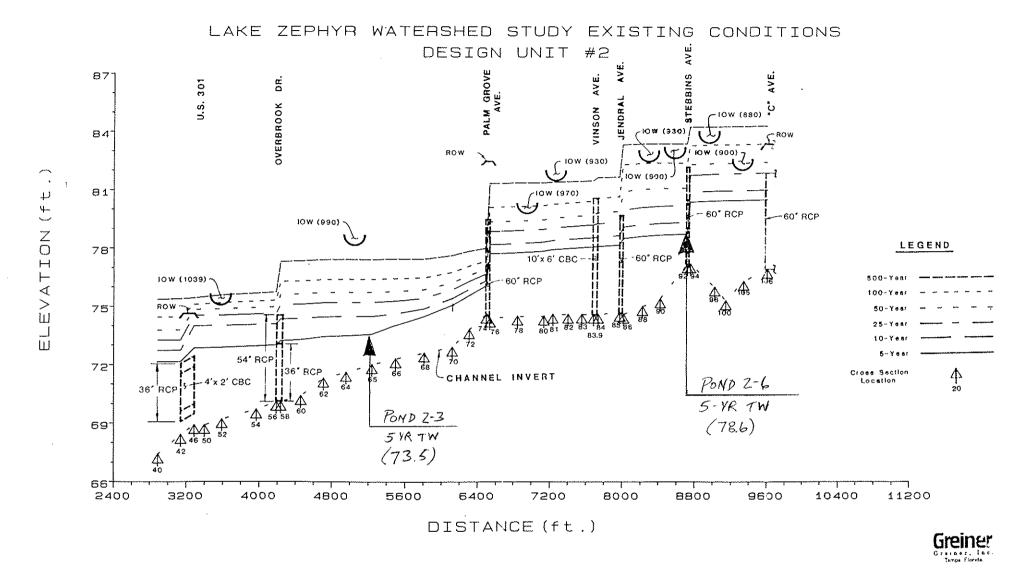
### LAKE ZEPHYR WATERSHED STUDY EXISTING CONDITIONS DESIGN UNIT #1



CBC - Concrete Box Culvert RCP - Reinforced Concrete Pipe

ROW (17) - Roadway Overtopping Weir (May not be located at creek crossing)

FIGURE V-3.1



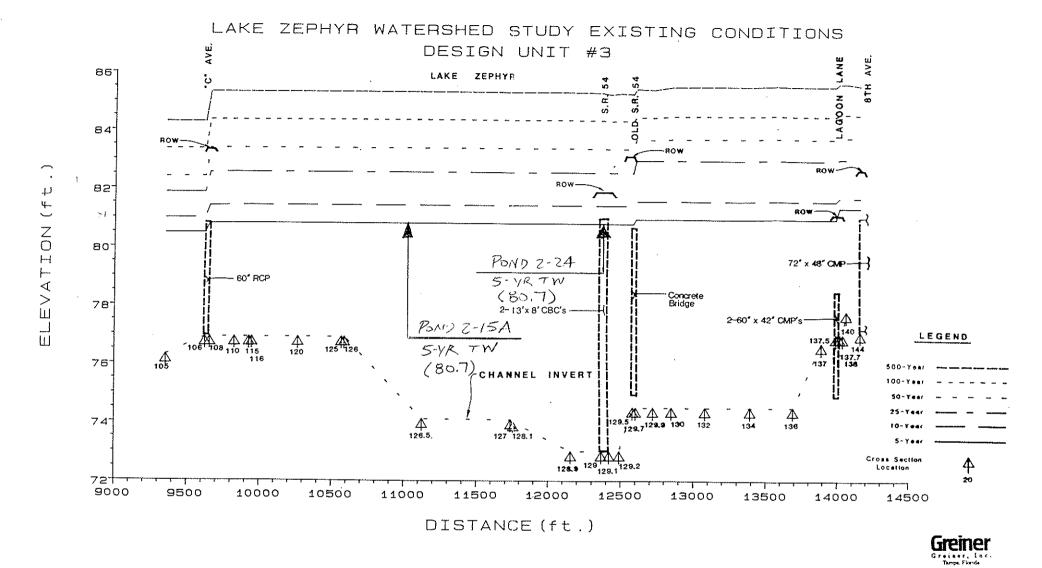
**CBC-Concrete Box Culvert** 

RCP - Reinforced Concrete Pipe

ROW ( ) - Roadway Overtopping Weir (May not be located at creek crossing)

IOW (♥) - Inter-basin Overtopping Weir (900) - Node Number

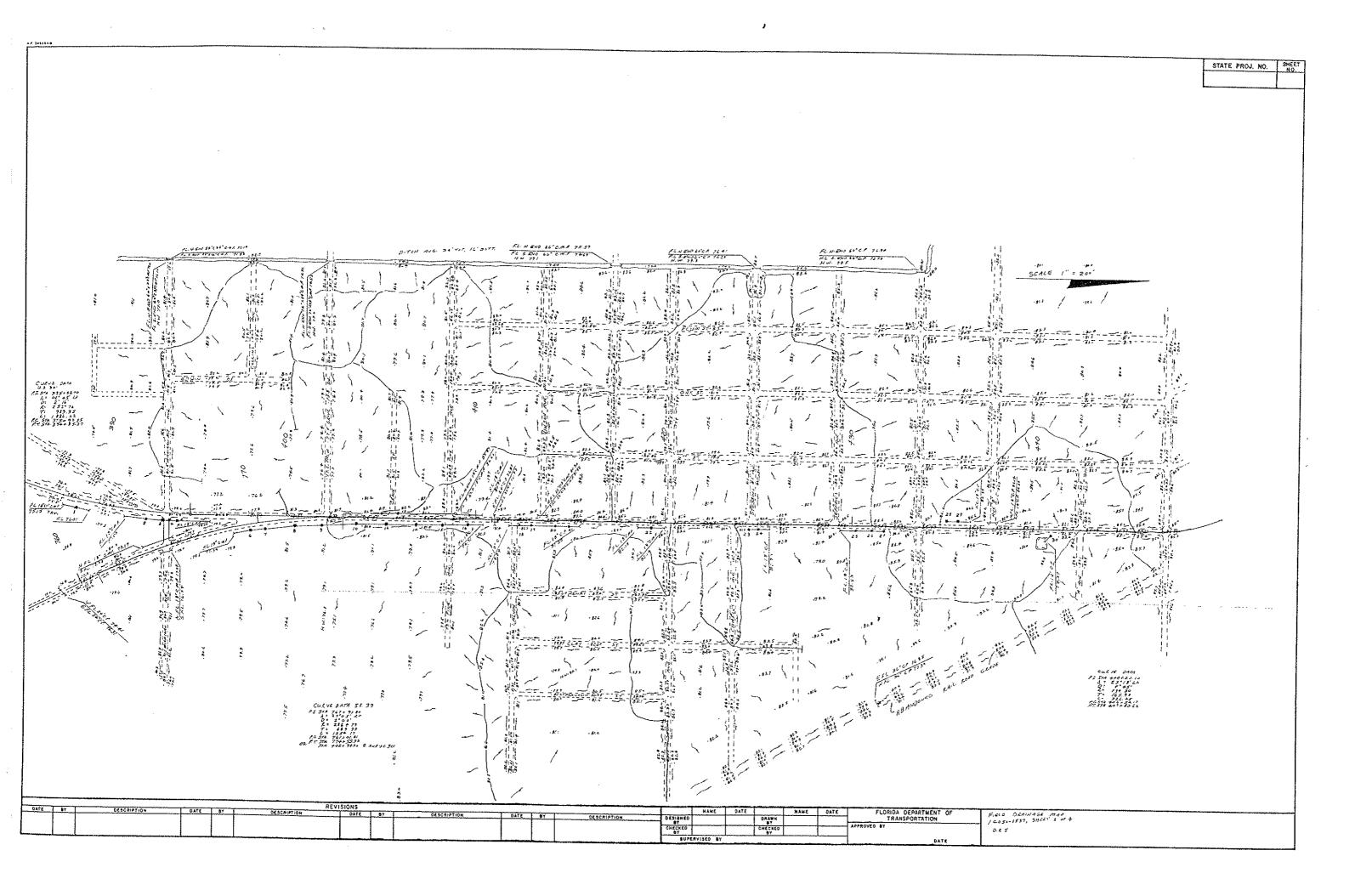
FIGURE V-3.2

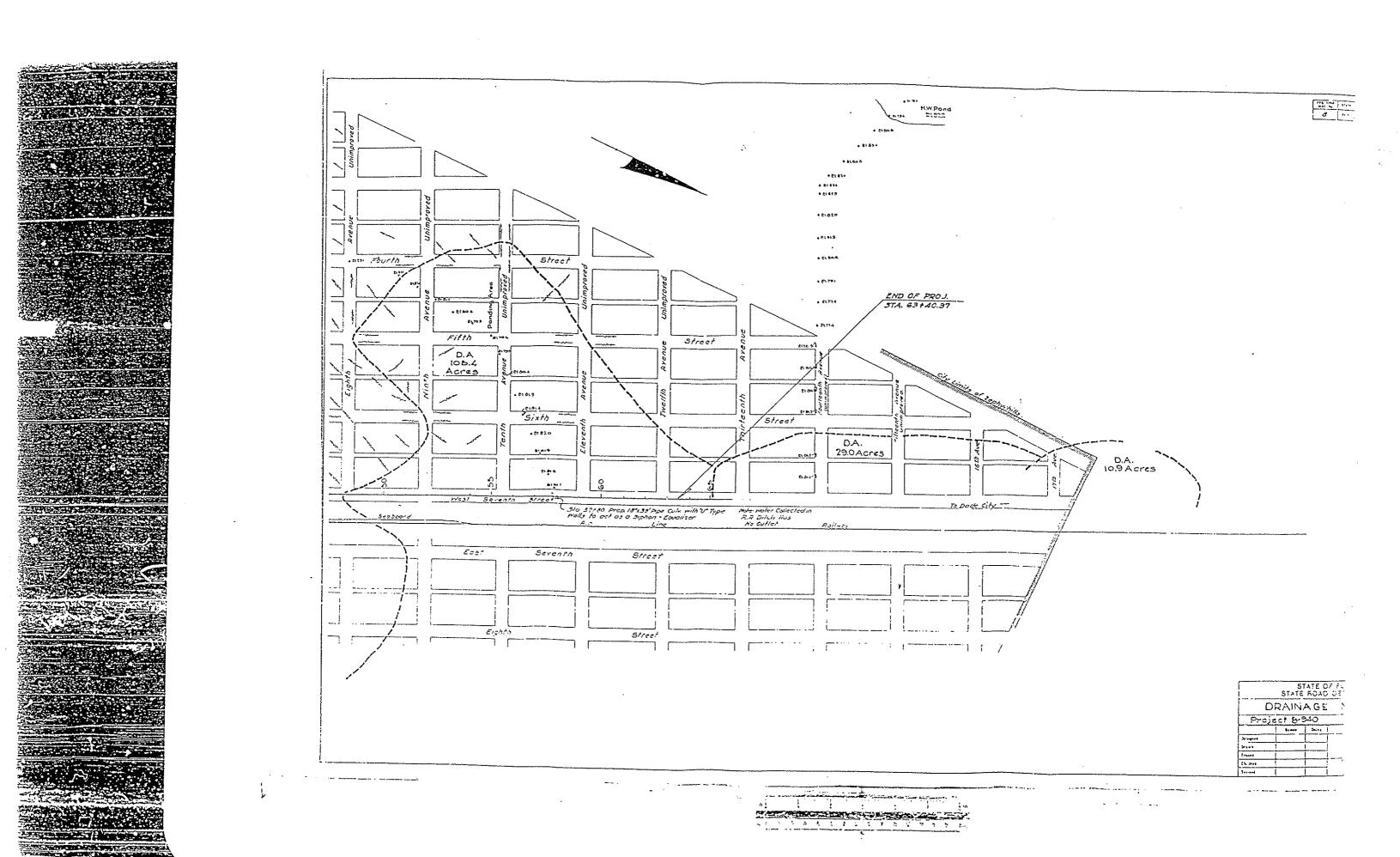


ROW (1) - Roadway Overtopping Weir (May not be located at creek crossing)

FIGURE V-3.3

### APPENDIX G HISTORICAL DRAINAGE MAPS





DRAINAGE MAP

Dist Stee County Rouge Proj. Street No.
1 1/2 PASSCO USSON 18050-1511-01 PROJECT

DRAINAGE MAP Curve N'S Curve N' 6

PLS by SISTERN PLS by 38163.51

A = 69' 08' E! A = 24' 00' Lt

D = 5' 08' D = 2 36'

P = 1,130.84 P = 2203.68

T = 778.14 T = 46.8 42

L = 1,36.87 L = 923.08

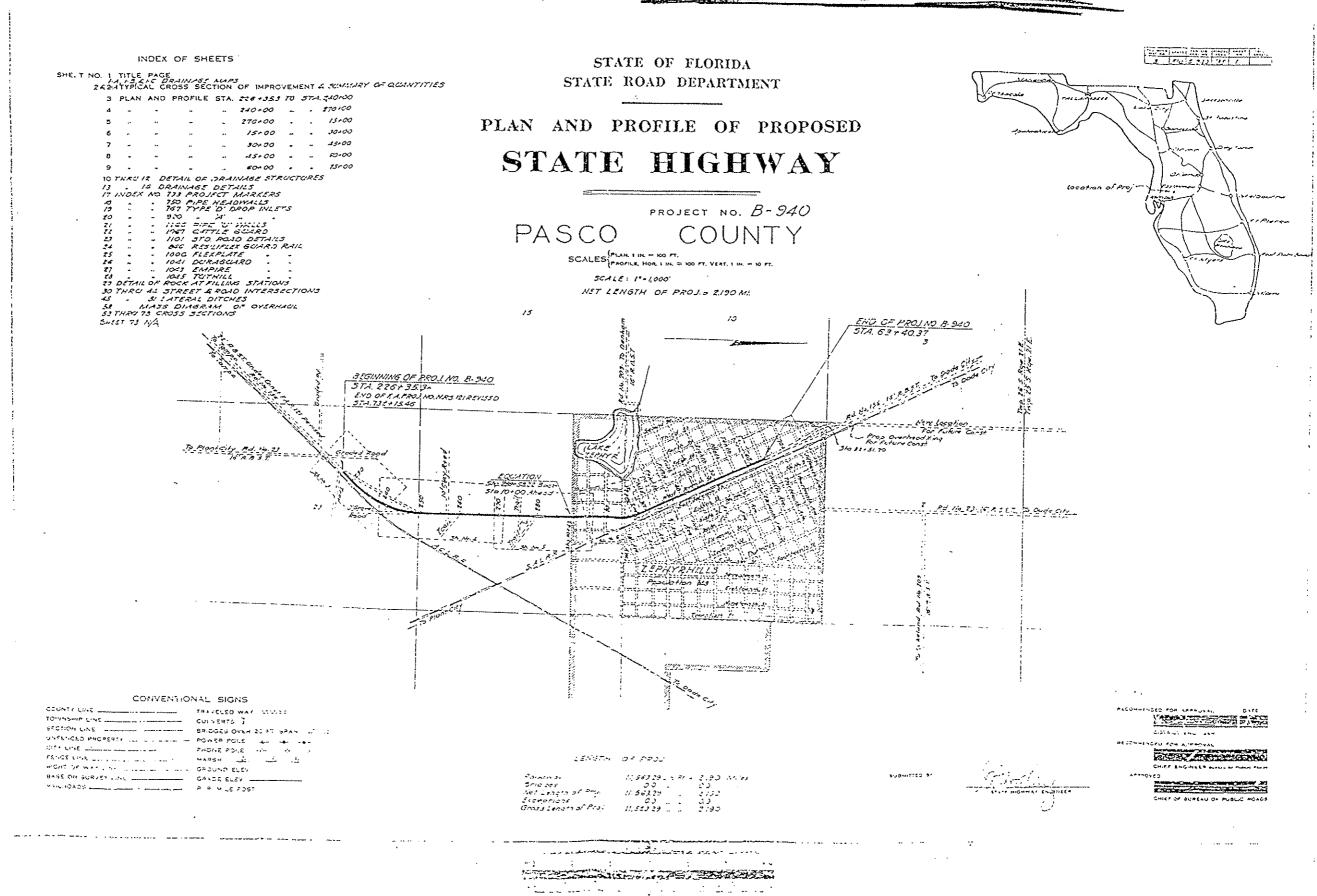
PC Sby 506107.97 PC. Sby 376+75' 09

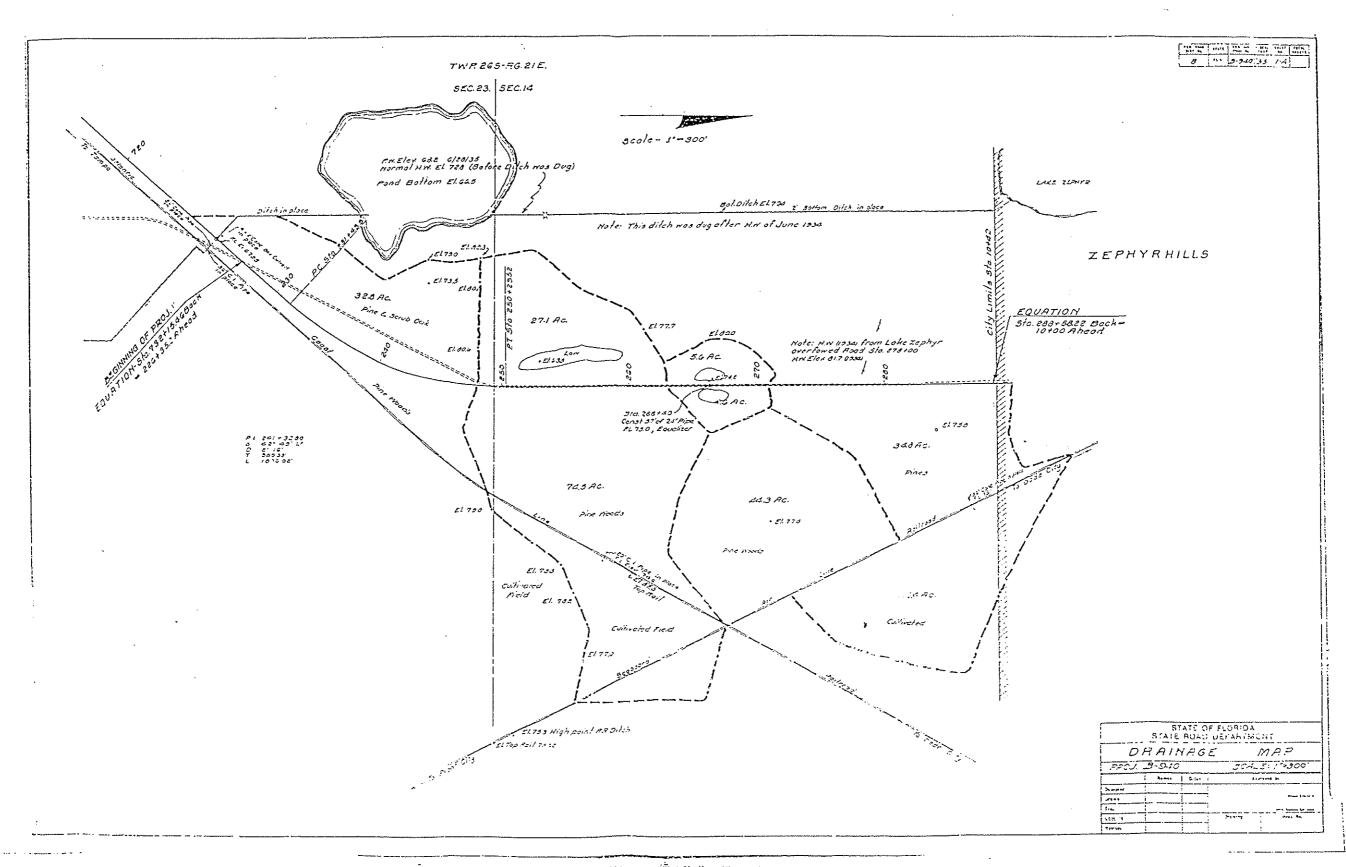
PT. Sby 51917.244 PT. Sby 386+16-17

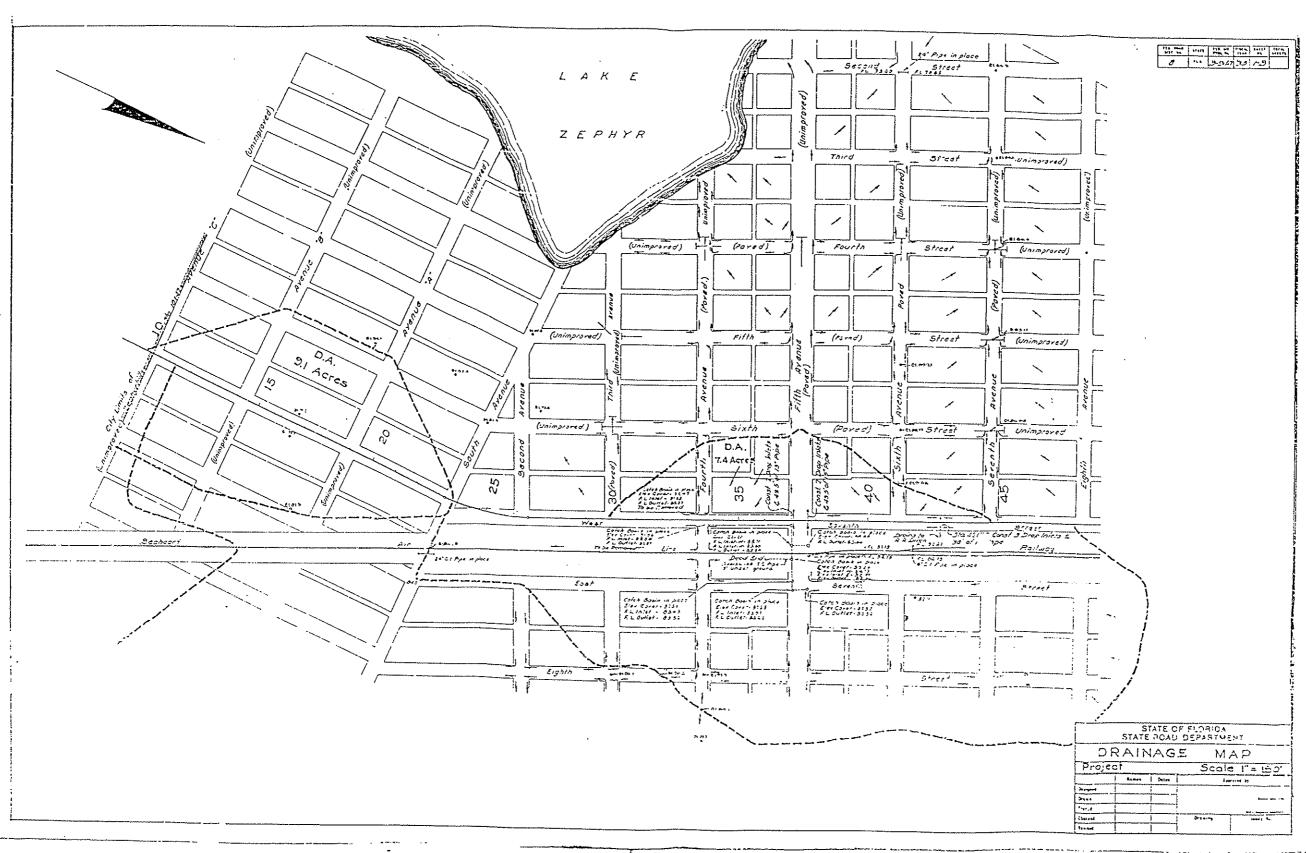
LY Sby 52019045 BK = End. Su. Sby 390100

Sby 37213.34 46. 14050-1511-01

### U.S. 301 Original Construction Plans







### APPENDIX H AERIAL DRAINAGE MAPS

