Project Development & Environment (PD&E) Study McIntosh Road From South of US 92 to North of I-4

Draft Pond Siting Report

Work Program Item Segment No. 447157-1 ETDM Project No. 14469 Hillsborough County, Florida



Florida Department of Transportation
District Seven

In cooperation with



Hillsborough County, Public Works Department

September 2024

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. §327 and a Memorandum of Understanding dated May 26, 2022, and executed by the Federal Highway Administration and FDOT.

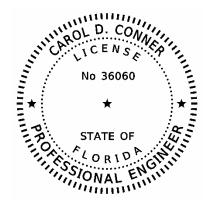
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PROJECT: McIntosh Road PD&E from S. of US 92 to N. of I-4

PROJECT NUMBER: FPID 447157-1-32-01

SCOPE OF RESPONSIBILITY: Report, figures, and design calculations

SECTION(S) / PAGE RANGE(S): Report (page 1 – page 26) / Appendices A, C, D, and G.



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EXECUTIVE SUMMARY

The Florida Department of Transportation (FDOT) District Seven is conducting a Project Development and Environment (PD&E) study along McIntosh Road in Hillsborough County to evaluate roadway and safety improvements along the corridor. The study limits extend for 1.03 miles from south of US 92 to north of I-4. The study will evaluate the effects of widening and reconstructing this section of McIntosh Road to reduce traffic congestion and improve pedestrian and bicycle accommodations.

The PD&E study is supported by preliminary engineering design activities and will determine the proposed build alternative, which will be depicted on typical roadway sections and conceptual design plans. The build alternative and the no-build, or "no action," alternative will be evaluated and compared to assess potential effects to the natural and physical environment, to determine their ability to meet the project's Purpose and Need, to obtain and consider agency and public comments, and to ensure compliance with all applicable federal and state laws. The proposed build alternative will include the construction of stormwater management facilities (SMFs) and floodplain compensation (FPC) sites. The no-build alternative will assume no improvements are made to the facility beyond routine roadway maintenance. A Natural Resources Evaluation (NRE) is being prepared as the environmental document for this study.

The purpose of this Draft Pond Siting Report is to discuss, analyze, and identify the stormwater management alternatives for the proposed roadway improvements based on hydrologic and hydraulic factors; to discuss, analyze, and identify floodplain compensation sites based on cup-for-cup volumetric compensation approach; and to identify the preferred alternative for each basin based on site specific environmental and geotechnical information as well as economic factors such as right-of-way (ROW) and construction costs. Stormwater management for water quality treatment and runoff attenuation will be provided using wet detention ponds. The design of the drainage and stormwater facilities, as well as the floodplain compensation sites will comply with the standards set forth by the FDOT Drainage Manual and the Southwest Florida Water Management District (SWFWMD) Environmental Resource Permit (ERP) Applicant's Handbook.

Alternative pond sites and floodplain compensation sites have been identified along the project limits, and preferred alternatives have been selected. The analysis estimates right-of-way needs using a volumetric analysis, which accounts for water quality treatment and water quantity for runoff attenuation for SMF sites and cup-for-cup volumetric compensation for FPC sites. The total SMF and FPC site cost estimates found in this document include construction costs of the SMF and FPC facilities. Preliminary ROW cost estimates were provided by FDOT and are included in this submittal.

The volumetric analysis of the SMF and FPC sites is performed with preliminary data, reasonable engineering judgment, and assumptions. The configurations of the SMF and FPC sites may change during final design as more detailed information on Seasonal High Water Table (SHWT), wetland hydrologic information, and final roadway profile become available. All elevations mentioned in this report are in reference to the North American Vertical Datum of 1988 (NAVD) unless otherwise stated. Reference material that was originally in the National Geodetic Datum of 1929 (NGVD) was converted to NAVD by subtracting 0.892 feet.

Table **ES-1** lists the preferred stormwater pond and floodplain compensation site alternatives.



Table ES- 1: Summary of Preferred Pond Sites

Basin	Pond or FPC Site	Pond or FPC Site Area (ac.)	Est. Total Cost (\$) ¹	Floodplain Impacts	Potential Relocations	Contamination Risk	Utility Impacts	Total Parcel Acquisition
1&7	SMF 1&7-1	2.58	\$907,080	No	1R	Low	None	1
2	SMF 2-2	2.51	\$1,518,288	Yes (Minimal)	None	Low	None	1
3	SMF 3-1	3.35	\$5,110,176	Yes (Minimal)	None	Low	None	1
4	Existing FDOT Pond 7	N/A	TBD	No	None	N/A	None	0
5	SMF 5-2	2.18	\$3,147,855	Yes (Minimal)	None	Low	None	1
FPC 1	FPC 1-1	3.21	\$1,167,544	N/A	None	Med	None	1
FPC 2	FPC 2-1	5.46	\$869,216	N/A	None	Low	None	1
FPC 3	FPC 3-2	6.87	\$4,491,055	N/A	None	Med	None	2
FPC 4	FPC 4-1	10.94	\$6,886,899	N/A	1R	Low	None	1
FPC 5	FPC 5-1	1.64	\$1,059,539	N/A	None	Low	None	1

¹ Estimated total cost is based on preliminary construction and right-of-way costs.



² Number of relocations Residential (R) and/or Commercial (C).

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1. INTRODUCTION

1.1. PROJECT DESCRIPTION

The Florida Department of Transportation (FDOT) District 7 is conducting a Project Development and Environment (PD&E) study for the proposed 1.03-miles reconstruction of McIntosh Road from S. of US 92/SR 600 to N. of I-4. McIntosh Road is an undivided local rural roadway located in Hillsborough County, Florida. McIntosh Road is neither within the jurisdiction of the Florida Department of Transportation District 7, nor is it a part of the NHS, SHS, or SIS transportation systems. McIntosh Road is primarily a two-lane undivided rural county road with unpaved flush shoulders and open drainage within the project limits. The proposed project improvements will include widening of McIntosh Road to provide a four-lane divided roadway with a shared use path on both sides from south of US 92/SR 600 to north of I-4, with improvements at the US-92 intersection and the I-4 interchange. The I-4 ramps will be improved or given additional lanes that will be continued for a distance along the I-4 mainline. A PD&E Re-Evlauation for US 92 was approved in April 2018.

The 4-lane section for McIntosh Road will be urban with a 22-foot median, two 11-foot lanes in each direction, and a 10-foot shared use path on both sides. This segment of McIntosh Road is within the limits of a heavy freight corridor. The design speed is 35 mph (posted 40 mph) and context classification is C3C – Suburban Commercial. The project study area and project limits are shown in **Figure 1-1** and **Appendix A**. The existing McIntosh Road is a two-lane undivided rural county road. The project is located in Sections 19 and 30, Township 28 South, Range 21 East. The results of the study will aid FDOT District Seven in determining the location, type, and conceptual design of the proposed improvements.

All elevations mentioned in this report are in reference to the North American Vertical Datum of 1988 (NAVD) unless otherwise stated. Reference material that was originally in the National Geodetic Datum of 1929 (NGVD) was converted to NAVD by subtracting 0.892 feet. Refer to **Appendix C** for the datum conversion.

1.2. PROJECT PURPOSE AND NEED

The purpose of this project is to address projected capacity needs as well as to improve safety conditions to McIntosh Road within the project area. The project is needed to improve capacity, safety, and system linkage. This Preliminary Draft Pond Siting Report (PSR) includes the preferred alternatives for both SMF and FPC sites, as well as environmental information and right-of-way (ROW) costs.





Figure 1-1: Project Location Map

1.3. EXISTING ROADWAY

McIntosh Road is a two-lane undivided local rural roadway. The existing travel lanes vary from 10-11 feet with unpaved, flush shoulders ranging from 2-5 feet. This segment of McIntosh Road services as the connection from south of US 92/SR 600 to north of I-4. McIntosh is owned and maintained by Hillsborough County apart from the I-4 interchange and limited access ROW from Muck Pond Road to Newsome Road, which is maintained by FDOT. McIntosh Road is classified as a major urban collector with a design speed limit of 35 mph (posted 40 mph) along most of the project and a 45 mph speed limit near the southern terminus. There are no bicycle lanes, and the sidewalk segments are non-continuous. The crosswalks within the US 92 intersection share no connectivity with the segments along McIntosh Rd. The existing right-of-way (ROW) varies from 44 feet wide to 70 feet wide closer to the I-4 interchange. The existing roadway typical section is provided in **Figure 1-2**.





Figure 1-2: McIntosh Road Existing Typical Section

1.4. PREFERRED ALTERNATIVE

The preferred alternative along McIntosh Road consists of a four-lane urban curb and gutter facility within 140-foot wide of ROW with a 35 mph design speed. There will be two (2) 11-foot wide travel lanes in each direction separated by a 22-foot wide raised median. A 10-foot wide shared use path is included in each direction. Refer to Figure 1-3 and Figure 1-4 for the McIntosh Road and US 92 proposed typical sections.

The preferred alternative includes ramp improvements at I-4 which tie into existing projects (FPID 446133-1, 441084-1 and 443319-1). The limits of the proposed improvements at the EB and WB ramps are from McIntosh Road to the gore areas of I-4, no changes are proposed on the I-4 mainline. The proposed improvements consist of adding turn lanes to each ramp which merge into the existing ramp lanes. Ramp improvements consist of one-way 12-foot wide travel lanes with a 12-foot wide outside shoulder (10-foot paved) and an 8-foot wide inside shoulder (4-foot paved). The EB and WB on-ramps are proposed to be two-lane, flush-shoulder ramps within a variable width (61-foot minimum) limited access ROW. The EB and WB off-ramps are proposed to be three-lane ramps within a limited access ROW that varies in width (51-foot minimum).

Refer to **Appendix B** for the Typical Section Packages.



MCINTOSH ROAD N. OF US 92 TO PROJECT END

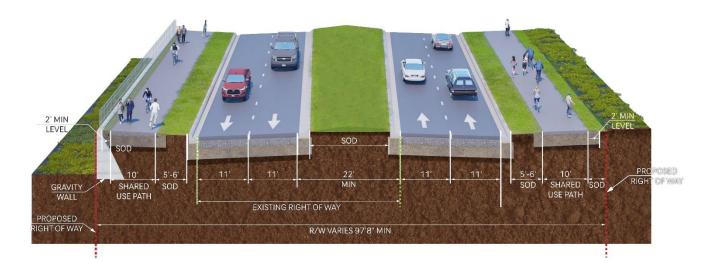


Figure 1-3: McIntosh Road Proposed Typical Section

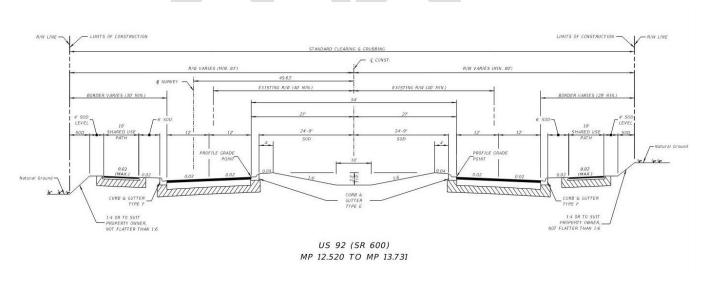


Figure 1-4: US-92 Proposed Typical Section



2. DESIGN CRITERIA

The design of the SMFs for the project is governed by the rules set forth by the Southwest Florida Water Management District (SWFWMD) and FDOT. Water treatment and attenuation requirements will comply with the guidelines defined in Chapter 62-330 of the Florida Administrative Code (F.A.C) and the Environmental Resource Permit Applicant's Handbook (Volume II). Wet detention ponds will provide water quality treatment as well as water quantity attenuation for the project runoff. The stormwater ponds are designed and sized for the most conservative typical section. The sections below describe the water quality, water quantity, and SMF configuration criteria used.

2.1. PERMITS AND APPROVALS

The study area lies within the jurisdiction of the Southwest Florida Water Management District (SWFWMD). It is anticipated that the project will require the following permits and approvals:

SWFWMD – Individual Environmental Resource Permit

2.2. APPLICABLE CRITERIA

2.2.1. SWFWMD CRITERIA

DISCHARGES

- 1. Off-site discharges are limited to the historic discharge for the 25-Year/24-Hour Storm.
- 2. The rainfall amount is to be determined from the SWFWMD rainfall maps.
- 3. The rainfall distribution is the NRCS Type II Florida Modified Distribution with an antecedent moisture condition II.

FLOODPLAIN ENCROACHMENT

No net encroachment into the 100-year flood plan. Any required compensating storage shall be equivalently provided between the lowest level of encroachment and the 100-year flood level to allow storage function during all lesser flood events.

STORMWATER QUALITY - WET DETENTION SYSTEMS

- 1. A wet detention treatment system shall treat one inch of runoff from the contributing area.
- A manmade wet detention system shall include a minimum of 35 percent littoral zone, concentrated at the outfall, for biological assimilation of pollutants. The treatment volume should not cause the pond level to rise more than 18 inches above the control elevation.
- 3. Isolated natural wetlands can be used as a wet detention system when not in conflict with environmental or public use considerations.
- 4. The wet detention system's treatment volume shall be discharged in no less than 120 hours (5 days) with no more than one-half the total volume being discharged within the first 60 hours (2.5 days).
- Due to the detention time required for wet detention systems, only that volume which drains below the overflow elevation within 36 hours may be counted as part of the volume required for water quantity storage under Part III of SWFWMD ERP Applicant's Handbook, Volume II.



STORMWATER QUALITY - RETENTION SYSTEMS

- 1. An on-line retention treatment system shall treat the runoff from the first one-inch of rainfall; or as an option for projects or project sub-units with drainage areas less than 100 acres, the first one-half inch of run-off.
- Total treatment volume shall again be available within 72 hours, however, only that volume which can again be available within 36 hours may be counted as part of the volume required for water quantity storage under Part III of SWFWMD ERP Applicant's Handbook, Volume II.

DISCHARGES TO OUTSTANDING FLORIDA WATERS (OFWS) AND IMPAIRED BASINS

- 1. Projects discharging to OFWs shall provide an additional 50% of the required treatment volume. (FDOT typically demonstrates net improvement in lieu of this requirement.)
- 2. Projects discharging to basins that are listed as impaired for nutrients on the FDEP Comprehensive Verified List of Impaired Waters are required to demonstrate net improvement of water quality for those contributed parameters that do not meet standards.

ALTERATIONS TO EXISTING PUBLIC ROADWAY PROJECTS

- 1. For alterations to existing public roadway projects, the contributing area may be determined according to the following options:
 - a. If the treatment volume is provided off-line of the primary conveyance path, use the area of new pavement.
 - b. For all other systems, use the entire on-site directly connected impervious areas contributing to the systems.
- 2. When extreme hardship is demonstrated, equivalent treatment of alternate existing pavement areas will be considered.
- 3. Section 373.413(6) FS also requires that agencies exercise flexibility in the permitting of stormwater management systems associated with the construction or alteration of systems serving state transportation projects and facilities.

2.2.2. FDOT CRITERIA

CONTROL STRUCTURES

- 1. Stormwater pond control structures consist of ditch bottom inlets in conjunction with outfall pipes (drop structures). Trapezoidal weirs shaped into the pond berms are not permitted except where drop structures are not feasible.
- 2. Provide a minimum permanent pool depth of six feet in facilities designed to be wet.
- 3. The rainfall distribution is the NRCS Type II Florida Modified Distribution with an antecedent moisture condition II.

MAINTENANCE CONSIDERATIONS

- 1. Provide a minimum of 20 feet of horizontal clearance between the top edge of the control elevation and the right-of-way line.
- 2. Provide at least 15 feet adjacent to the pond at a slope of 1:8 or flatter. The minimum radius of the inside edge of the maintenance berm is 30 feet. Per coordination with the District 7 Drainage Engineer, a 20-foot pond berm at a slope of 1:20 was assumed.
- 3. The minimum required freeboard to the inside edge of the maintenance berm is one foot above the maximum design state elevation.

2.2.3. FDEP STORMWATER RULE

In March 2024, both houses of the Florida Legislature unanimously passed Senate Bill 7040, ratifying the new FDEP Stormwater Quality Rule which imposes additional treatment requirements. The rule was signed into law by the governor on June 28, 2024. The Public Hearing for the McIntosh PD&E is scheduled for September 26, 2024. The rule exempts projects with an approved



PD&E within two years of the effective date, so it is assumed that this project will not be required to meet the new requirements. The PD&E for this project is currently being processed and the approval date is pending.





3. DATA COLLECTION

The following sources were used to collect and review data in the preparation of this Pre Draft Pond Siting Report:

- FDEP Map Direct
- FDOT Drainage Manual (2024)
- FDOT Drainage Design Guide (2024)
- FDOT Project Development and Environment Manual (2019)
- FEMA Flood Map Service Center
- NRCS Web Soil Survey
- SWFWMD ePermitting
- SWFWMD ERP Applicant's Handbook, Volume I (2018)
- SWFWMD ERP Applicant's Handbook, Volume II (2016)





4. ENVIRONMENTAL LOOK AROUND (ELA)

A pre-application meeting with SWFWMD took place on April 18, 2024. This meeting was intended to serve as the required Environmental Look Around (ELA) Meeting for the Pond Siting Report as well as an initial pre-application meeting with SWFWMD to confirm design requirements. to discuss the project, including the potential for regional ponds. SWFWMD staff confirmed that they are not aware of any regional pond opportunities in the basin area. In addition, the project drainage criteria were reviewed, and the potential wetland impacts for the project were discussed. Pond Siting Selection Meetings were held with FDOT on January 16, 2024 and May 1, 2024. Minutes from those meetings are in **Appendix F**.





5. EXISTING DRAINAGE CONDITIONS

5.1. TOPOGRAPHY AND HYDROLOGIC FEATURES

Topography throughout the project is relatively flat with elevations ranging from 50 feet to 60 feet. There are five existing cross drains within the project limits, four under McIntosh Road and one under the I-4 Westbound Off Ramp. The cross drains allow for conveyance of offsite and onsite runoff beneath the road toward its historical path. The size and geometry of all cross drains and bridges culverts have been established from existing plans and permit documents. Refer to **Table 5-1** for a Summary of Existing Cross Drains. Refer to **Appendix A** for a USGS Quadrangle Map.

Table 5-1: Summary of Existing Cross Drains

Structure	Baseline/Location	Station	Description		Length (ft)
Number			Size	Pipe Type	
CD-M1	McIntosh Road	8+45	18-inch	RCP	39
CD-M2	McIntosh Road	19+37	24-inch	RCP	53
CD-M3	McIntosh Road	34+37	Double 24-inch	RCP	99
CD-INT1	McIntosh Road	40+05	Double 36-inch	RCP	78
CD-INT2	Under I-4 WB Off Ramp	N/A	36-inch	RCP	60

5.2. SOILS DATA AND GEOTECHNICAL INVESTIGATION

The predominant soils within and adjacent to the corridor are poorly drained sandy soils. The Natural Resource Conservation Service (NRCS) Web Soil Survey for Hillsborough County was used to determine the soil types within the project limits. The Soil Survey indicates that much of the project corridor is underlain by mineral soils (sands). The presence of organics beneath the existing roadway's embankment is uncertain, although it is believed that they were removed and replaced with granular fill during the original construction. Tierra, Inc. performed roadway and pond borings to determine the Seasonal High Water Table (SHWT) elevations throughout the project. Site-specific Geotechnical information for the SMF and FPC sites is provided in **Appendix I**.

Based on a review and evaluation of subsurface information available for the project area, it is expected that soil and groundwater conditions found along the corridor are generally favorable for roadway improvements. Refer to **Appendix A** for a Soils Map. **Table 5-2** provides the soil names, as well as their hydrologic soil group and drainage condition.

Table 5-2: USDA NRCS Soil Survey Information

Soil Name	NRCS Map Unit	Hydrologic Soil Group	Drainage Class, Dominant Condition	Approximate Depth to SHWT (ft)
Basinger, Holopaw, and Samsula soils, depressional	5	A/D	Very poorly drained	0
Immokalee fine sand, 0 to 2 percent slopes	21	B/D	Poorly drained	1
Malabar fine sand, 0 to 2 percent slopes	27	A/D	Poorly drained	0.5



Soil Name	NRCS Map Unit	Hydrologic Soil Group	Drainage Class, Dominant Condition	Approximate Depth to SHWT (ft)
Myakka fine sand, 0 to 2 percent slopes	29	A/D	Poorly drained	1
Ona fine sand, 0 to 2 percent slopes	33	B/D	Poorly drained	1
Paisley fine sand, Depressional	37	C/D	Very poorly drained	0
Seffner fine sand, 0 to 2 percent slopes	47	А	Somewhat poorly drained	2.5

5.3. EXISTING DRAINAGE PERMITS

The following SWFWMD Historic Permits were used to collect drainage information for the purpose of this PD&E Study. **Table 5-3** provides a summary for each existing permit.

Table 5-3: Summary of Existing Drainage Permits

Permit Number	Permit Name	Date Issued	Permit Description
4820.001	RaceTrac Petroleum McIntosh Road	9/28/1992	Permit for RaceTrac gas station located on the southwest quadrant of the McIntosh Road and I-4 interchage
11896.000	I-4 Segment #2	1/24/1995	Permit for I-4 widening from I-75 to east of McIntosh Road
11896.059	I-4 EB from Weigh Station to McIntosh Rd	9/12/2019	Permit for I-4 widening from Branch Forbes Road to SR 39
11896.006	I-4 E Weight Station to E of McIntosh	9/27/2023	Short-term safety improvement at the I- 4/McIntosh Road interchange
13876.000-002	Burger King McIntosh Road	7/12/1996- 7/19/1999	Permit for Burger King restaurant located south of the McIntosh Road and I-4 interchange
14028.000-004	US 92/McIntosh Intersection	8/27/1996- 12/10/2002	US 92 widening from Kingsway Road to McIntosh Road
17422.000005	Tampa RV One Superstore	2/5/1998-7/20/2022	Permit for Tampa RV One Superstore to purchase wetland mitigation credits
18352.000	7-11 I-4 & McIntosh	9/1/1998	Permit for 7-11 gas station located on the southeast quadrant of the McIntosh Road and I-4 Interchange
19253.000	BP Station US 92 & McIntosh Rd	8/23/1999	Permit for BP gas station located on the southeast corner of McIntosh Road and US 92 intersection
27572.000005	Camping World	1/10/2005- 12/30/2015	Permit for modification to Camping World site located in the northeast quadrant of the McIntosh Road and US 92 interchange
31172.000	US 92 From Eureka Springs to Thonotosassa	11/30/1996	Permit for widening US 92 from Eureka Springs Road to SR 566 (Thonotosassa Road)



Permit Number	Permit Name	Date Issued	Permit Description
33399.000007	Strawberry Crest High School	3/20/2008- 10/27/2020	Permit for the construction of Strawberry Crest High School located just east of the McIntosh Road and I-4 interchange
34070.000002	Driscoll's Agricultural Storage	7/30/2008-7/8/2010	Permit for storage buildings for Driscoll's Agricultural
41594.000001	Independence Academy	4/18/2014- 9/17/2014	Permit for the construction of Independence Academy located on the northeast corner of the McIntosh Road and US 92 intersection
43544.000-002	RV ONE	12/10/2018- 6/28/2019	Permit for a petition for formal determination of wetlands and surface waters within the vicinity of RV One Luxury RV Park
43710.000002	Radiant Circle K Shell	9/14/2018- 4/30/2021	Permit for construction of gas station located in the northwest quadrant of the McIntosh Road and I-4 Interchange
45376.000	Formal JD East of McIntosh	9/13/2021	Permit for formal determination of wetlands and surface waters for parcel on the east side of McIntosh Road between US 92 and Newsome Road
Exemption 786707	McIntosh over Pemberton Creek	6/27/2019	Permit exemption for McIntosh Road bridge over Pemberton Creek
Exemption 804331	Gallagher US 92 Intersection	6/27/2019	Permit exemption for minor improvements for US 92 at Gallagher Road

In addition to the above permits, construction plans obtained from Hillsborough County for Hungry Howie's on McIntosh Road were also reviewed.

5.4. EXISTING BASINS

Stormwater runoff sheet flows from the roadway into roadside ditches, which discharge into existing culverts and cross drains throughout the corridor. The culverts and cross drains from the beginning of the project on McIntosh Road south of US 92 discharge to Baker Canal Tributary 3. The culverts and cross drains on McIntosh Road from north of US 92 to north of I-4 discharge to the Baker Canal Tributary 2. Both tributaries discharge to Baker Creek/Pemberton Creek, which flows north to Lake Thonotosassa, an open basin. The project lies within two WBIDs: WBID 1522E for Baker Creek East and WBID 1547 for Seffner Canal, which is listed as impaired for E. Coli. Based on a review of the Southwest Florida Water Management District (SWFWMD) website and a Public Records request, there are no formal stormwater treatment facilities for McIntosh Road. A map showing the WBID limits is provided in **Appendix A**.

Six subbasins have been identified within the limits of the project area. Two of these subbasins, Basin 2 and Basin 7, include portions of US 92. Basin divides have been developed from existing permit information and supplemented with LiDAR data, survey, and field review. Cross drain information was obtained from the project survey, existing plans and Straight Line Diagrams (SLD). Basin divides are detailed on the basin maps included in **Appendix G**.

5.4.1. BASIN 1

Basin 1 extends from the beginning of the project Sta 0+19 to the intersection of McIntosh Road and US 92 at Station 12+43. Runoff sheet flows from the road into roadside ditches where it is conveyed via side drains to the south outfall (Sta 8+45), which flows from east to west and discharges into Baker Canal Tributary 3. In the existing condition, Basin 1 is 3.87 acres.



5.4.2. BASIN 2

Basin 2 extends from the intersection of McIntosh Road and US 92 (Sta 12+43) to Station 25+07 along McIntosh and includes westbound US 92 from Station 16+20 (US 92) to Station 50+65 (US 92). Runoff sheet flows from the road into roadside ditches where it is conveyed via side drains and closed stormsewer systems to a cross drain (Sta 19+38), which flows from east to west and discharges into Baker Canal Tributary 2. In the existing condition, Basin 2 is 8.41 acres.

5.4.3. BASIN 3

Basin 3 extends from Station 25+07 to I-4 (Sta 38+66) and includes a portion of the I-4 and McIntosh Road interchange. Runoff sheet flows from the road into roadside ditches where it is conveyed via side drains and culverts to the outfall located on the southwest corner of the interchange, running underneath the Raceway gas station and eventually discharging to the Baker Canal Tributary 2. In the existing condition, Basin 3 is 8.75 acres.

5.4.4. BASIN 4

Basin 4 extends from McIntosh Road and I-4 (Sta 38+66) to the end of the I-4 and McIntosh Road interchange (Sta 44+32) and includes the remainder of the interchange. Runoff sheet flows from the road into roadside ditches and culverts where it is conveyed via closed stormsewer to an offsite FDOT-owned pond (Pond 7 in SWFWMD Permit # 11896.000). In the existing condition, Basin 4 is 11.68 acres.

5.4.5. BASIN 5

Basin 5 extends from north of the I-4 and McIntosh Road interchange (Sta 44+32) to the end of the project at Sta 54+87. Runoff sheet flows from the road into roadside ditches and side drains and discharges north to Baker Creek/Pemberton Creek, beyond the project limits. In the existing condition, Basin 5 is 4.71 acres.

5.4.6. BASIN 7

Basin 7 extends from the intersection of US 92 and McIntosh Road (Station 16+17 US 92) to about 710 feet east of Gallagher Road (Sta 50+66 US 92). Runoff sheet flows from the roadway into roadside ditches and is conveyed via side drains west to a wetland located east of the US 92 and McIntosh Road intersection. The wetland discharges into Baker Canal Tributary 3. In the existing condition, Basin 7 is 10.51 acres.

5.5. LAND USE

From the beginning of the project along McIntosh Road to the intersection of US 92 the project area is surrounded by agricultural land uses, such row crops, upland hardwood – coniferous mix, as well as low density residential, and commercial land uses. From the intersection of US 92 and McIntosh Road to the I-4 interchange the project area is surrounded by industrial and commercial land uses as well as high density residential areas, agricultural land uses and stream and lake swamps (bottomland) areas. The I-4 interchange is classified as transportation land use. North of the I-4 interchange to the end of the project the surrounding land use is mainly low density residential with some commercial and pastureland areas. Please refer to **Appendix A** for the existing and future Land Use Maps.

5.6. BRIDGES

There are no existing bridges or bridge culverts within the project limits.



6. PROPOSED CONDITIONS

6.1. PROPOSED DRAINAGE CONDITIONS

In the proposed condition, roadway runoff will be collected via closed stormsewer systems and treated in offsite SMFs which will require the acquisition of additional right-of-way. Due to the high groundwater table in the area, the SMFs will be wet detention ponds, many of them with impermeable pond liners. The existing condition was comprised of six drainage basins; however, based on coordination with FDOT, it was decided to reduce the number of pond sites by combining Basins 1 and 7, since both basins discharge to Baker Creek Tributary 2. Therefore, the proposed condition has five basins. As part of the PD&E process ten SMFs have been identified as alternatives for this project: two each for Basins 1-3, one for Basin 4, and three for Basin 5. Preferred pond alternatives have been selected for each basin based on estimated total cost, including estimated ROW costs, environmental parameters such as site contamination risk and potential species and habitat impacts, and potential business or residential relocations. The proposed basins follow the same drainage patterns and outfall locations as in the existing condition. None of the basins discharge to an Outstanding Florida Water (OFW) or to waterbodies impaired for nutrients.

7. FLOODPLAIN AND ENVIRONMENTAL INFORMATION

7.1. FLOODPLAINS

Based on direction from the D7 District Drainage Engineer, the latest Hillsborough County HC-SWMM model was used to determine the elevation and extents of the floodplains within the project limits. An exhibit comparing the FEMA floodplain areas and the HC-SWMM model flood areas can be found in **Appendix A**.

The proposed reconstruction will impact the 100-year floodplains for both Baker Creek Tributary 2 and Baker Creek Tributary 3, as well as isolated floodplain areas. The estimated 100-year floodplain impacts total 20.70 ac-ft divided into five floodplain impact areas (FIA). **Table 7-1** lists the approximate floodplain impacts along the project. See **Appendix C** for Floodplain Impact and Compensation Calculations. The project is not located within a regulatory floodway.

Two floodplain compensation (FPC) site alternatives were initially identified for each floodplain impact area. For this report, FPCs were sized using a "cup for cup" compensation methodology. Some of the FPC sites are designed to compensate for multiple floodplain impact areas within the same floodplain. Floodplain impact areas B2 FIA 7, B3 FIA 9, B5 FIA 16 and B5 FIA 18 are incidental impacts to the existing roadway ditch. For this report, it is assumed that impacts to the adjacent properties will be avoided with the McIntosh Rd conveyance system design and the small volumes will be compensated for upstream. The conveyance system will be designed to have comparable capacity to the ditches being replaced and to handle additional runoff due to the road widening.

The floodplain compensation scope for this PD&E study was limited to a cup-for-cup analysis based on available information. Due to the large compensation areas resulting from this approach, additional analysis is recommended during the project design phase to determine if these areas can be reduced. This analysis may include floodplain modeling, further consideration of the appropriate SHWT to use for the base of the compensation volume, and additional coordination with SWFWMD to explore other potential approaches.



Compensation alternatives are discussed below. Compensation for the floodplain impacts will require the acquisition of additional right-of-way. Compensation is provided between the estimated Seasonal High Ground Water Table (SHGWT) and the 100-year floodplain elevation. The SHGWT was estimated based on geotechnical borings.

When the geotechnical analysis was performed, the SHWT elevations were significantly higher than the SHWT estimated in the soil survey for all the FPC sites. Three of the alternatives became unsuitable, as the SHWT was higher than the 100-year floodplain elevations. To compensate for this, the remaining FPC sites had to be enlarged in other for them to provide the required floodplain compensation. Two FPC pond evaluation matrices are provided. The first one shows all the FPC pond alternatives and their estimated cost based on the ratio of parcel size before the SHWT was determined. The second FPC pond alternatives matrix shows only the preferred alternatives with the updated right of way costs including the larger FPC sites.

Refer to **Appendix A** for exhibits with the location of the FPC site alternatives as well as exhibits showing the preferred FPC sites. Preliminary construction and ROW costs were estimated for each floodplain compensation site alternative and are included in **Appendix D**. Preferred FPC sites were selected based on estimated total cost, including estimated ROW costs, environmental parameters such as site contamination risk and potential species and habitat impacts, and potential business or residential relocations. Refer to **Appendix E** for the FPC pond evaluation matrices.

Table 7-1:Floodplain Encroachment

		A	Floodplain			
Floodplain Impact Area	Floodplain Compensation Area	Alignment	Begin STA	End STA	LT/RT	Impact Volume (ac- ft)
B1 FIA 1	FPC 1	Mcintosh Rd	0+20	10+60	LT	0.25
B1 FIA 2	FPC 2	Mcintosh Rd	0+20	12+85	RT	2.20
B6 FIA 3	FPC 1	US 92	6+15	7+04	RT	0.12
B6 FIA 4	FPC 1	US 92	7+13	10+90	RT	0.40
B7 FIA 5	FPC 2	US 92	19+25	26+06	RT	3.93
B2 FIA 6	FPC 3	US 92	28+62	33+85	LT	0.43
B2 FIA 7*	FPC 3	Mcintosh Rd	13+50	22+65	LT	0.51
B2 FIA 8	FPC 3	Mcintosh Rd	13+45	32+50	(LT & RT)	3.95
B3 FIA 9*	FPC 3	Mcintosh Rd	32+10	32+95	LT	0.05
B3 FIA 10	FPC 4	I-4 East Bound On Ramp	0+0	11+30	RT	0.84
B3 FIA 11	FPC 4	I-4 East Bound Off Ramp	7+03	15+45	RT	1.66
B3-4 FIA 12	FPC 4	Mcintosh Rd	35+15	41+35	RT	1.82
B3-4 FIA 13	FPC 4	Mcintosh Rd	35+30	41+50	LT	1.32
B4 FIA 14	FPC 4	I-4 Westbound Off Ramp	0+0	9+76	LT	1.11
B4 FIA 15	FPC 4	I-4 Westbound On Ramp	17+74	27+27	LT	0.90
B5 FIA 16*	FPC 4	Mcintosh Rd	44+20	46+30	LT	0.30
B5 FIA 17	FPC 5	Mcintosh Rd	44+35	51+95	RT	0.71
B5 FIA 18*	FPC 5	Mcintosh Rd	46+50	50+30	LT	0.20
					Total	20.70

^{*}Incidental impacts to the existing roadway ditch. Based on coordination with FDOT, floodplain impacts to adjacent properties



will be avoided with the McIntosh Rd conveyance system design. Volumes will be compensated upstream of the impact.

7.1.1. FPC-1

FPC-1 alternatives provide compensation for Floodplain Impacts B1 FIA 1, B6 FIA 3 and B6 FIA 4. The total required compensation is approximately 0.78 ac-ft. FPC-1 is a shared site that is sized to compensate for the proposed McIntosh development and the future US 92 development.

FPC-1-1 is located south of US 92 near Sta. 8+00 and is directly adjacent to the 100-year floodplain boundary. This site is located within one parcel (082939-0000). The FPC is 3.21 acres in size and provides compensation between the estimated SHGWT (based on borings) of 52.00 ft. and the estimated 100-year floodplain elevation of 52.32 ft. FPC 1-1 will provide approximately 0.81 ac-ft of compensation. A second alternative was initially identified for FPC-1 based on SHGW elevations estimated from NRCS data. However, site-specific geotechnical information eliminated the second sites as a viable alternatives. No other viable alternatives were identified for FPC-1. Therefore, FPC-1-1 is the preferred alternative.

7.1.2. FPC-2

FPC-2 alternatives provide compensation for Impacts B1 FIA 2 and B7 FIA 5. The total required compensation is approximately 6.13 ac-ft. FPC 2-1 is a single site. FPC-2-2 is comprised of three separate sites that are all required to provide the needed floodplain compensation. FPC-2 is a shared site that is sized to compensate for the proposed McIntosh development and a portion of future US 92 development from Impact B7 FIA 5 (3.93 ac-ft).

FPC-2-1 is located east of Mcintosh Rd near Sta. 5+00 and is directly adjacent to the 100-year floodplain boundary. This site is located within one parcel (082972-0000). The FPC is 5.46 acres in size and provides compensation between the estimated SHGWT based on borings of 55.60 ft. and the estimated 100-year floodplain elevation of 57.21 ft. FPC-2-1 will provide approximately 6.91 ac-ft of compensation. FPC-2-1 is the preferred alternative.

FPC-2-2A is located east of Mcintosh Rd near Sta. 11+00 and is directly adjacent to the 100-year floodplain boundary. This site is located within one parcel (082968-0000). The FPC is 1.42 acres in size and provides compensation between the estimated SHGWT of 55.40 ft. and the estimated 100-year floodplain elevation of 57.77 ft. FPC 2-2A will provide approximately 1.75 ac-ft of compensation.

FPC-2-2B is located east of Mcintosh Rd near Sta. 7+00 and is directly adjacent to the 100-year floodplain boundary. This site is located within four parcels (082965-0100, 082970-0000, 082964-0100 and 082964-0000). The FPC is 4.07 acres in size and provides compensation between the estimated SHGWT of 54.80 ft. and the estimated 100-year floodplain elevation of 57.77 ft. FPC 2-2B will provide approximately 3.51 ac-ft of compensation.

FPC-2-2C is located east of Mcintosh Rd near Sta. 12+00 and is directly adjacent to the 100-year floodplain boundary. This site is located within four parcels (082964-0000). The FPC is 1.00 acres in size and provides compensation between the estimated SHGWT of 56.10ft. and the estimated 100-year floodplain elevation of 57.77 ft. FPC 2-2B will provide approximately 0.99 ac-ft of compensation.

7.1.3. FPC-3

FPC-3 alternatives provide compensation for Impact B2 FIA 6, B2 FIA 7, B2 FIA 8 and B3 FIA 9. The total required compensation is approximately 4.93 ac-ft. FPC-3 is a shared site that is sized to compensate for the proposed McIntosh development and a portion of future US 92 development from Impact B2 FIA 6 (0.43 ac-ft).



FPC-3-1 is located east of Mcintosh Rd near baseline Sta. 25+00 and is directly adjacent to the 100-year floodplain boundary. This site is located within one parcel (082877-0000). The FPC is 5.59 acres in size and provides compensation between the estimated SHGWT of 55.90 ft. and the estimated 100-year floodplain elevation of 57.23 ft. FPC 3-1 will provide approximately 4.93 ac-ft of compensation.

FPC-3-2 is located north of US 92 near baseline Sta. 24+00 and is directly adjacent to the 100-year floodplain boundary. This site is located within one parcel (082874-0000 and 082874-0025). The FPC is 6.87acres in size and provides compensation between the estimated SHGWT of 56.10 ft. and the estimated 100-year floodplain elevation of 57.00 ft. FPC 3-2 will provide approximately 5.07 ac-ft of compensation. FPC 3-2 is the preferred alternative.

7.1.4. FPC-4

FPC-4 alternatives provide compensation for Impacts B3 FIA 10, B3 FIA 11, B3-4 FIA 12, B3-4 FIA 13, B4 FIA 14, B4 FIA 15 and B5 FIA 16. The total required compensation is approximately 7.95 ac-ft.

FPC-4-1 is located west of Mcintosh Rd near Sta. 42+00 and is directly adjacent to the 100-year floodplain boundary. This site is located within one parcel (082885-0000). The FPC is 10.84 acres in size and provides compensation between the estimated SHGWT of 55.10 ft. and the estimated 100-year floodplain elevation of 56.00 ft. FPC 4-1 will provide approximately 8.57 ac-ft of compensation.

A second alternative was initially identified for FPC-4 based on SHGW elevations from NRCS data. However, site specific geotechnical information eliminated the second site as a viable alternative. No other viable alternatives were identified for FPC-4. Therefore, FPC-4-1 is the preferred alternative.

7.1.5. FPC-5

FPC-5 alternatives provide compensation for Impacts B5 FIA 17 and B5 FIA 18. The total required compensation is approximately 0.91 ac-ft.

FPC-5-1 is located east of Mcintosh Rd near Sta. 50+00 and is directly adjacent to the 100-year floodplain boundary. This site is located within one parcel (081619-0000). The FPC is 1.64 acres in size and provides compensation between the estimated SHGWT of 54.30 ft. and the estimated 100-year floodplain elevation of 56.00 ft. FPC 5-1 will provide approximately 1.53 ac-ft of compensation. FPC 5-1 is the preferred alternative.

FPC-5-2 is located east of Mcintosh Rd near Sta. 48+00 and is directly adjacent to the 100-year floodplain boundary. This site is located within two parcels (081620-0000 and 081620-5000). The FPC is 2.32 acres in size and provides compensation between the estimated SHGWT of 54.30 ft. and the estimated 100-year floodplain elevation of 56.00 ft. FPC 5-2 will provide approximately 1.41 ac-ft of compensation.

The required and provided floodplain compensation volumes as well as the required FPC site ROW areas are summarized in **Table 7-2**.



Table 7-2: Summary of FPC Site Alternatives

FPC	Alignment	From Station	To Station	Required Compensation (ac-ft)	Provided Compensation (ac-ft)	FPC Site R/W Area (incl. easements) (ac)
1-1	US 92	359+40	363+80	0.78	0.81	3.21
2-1	McIntosh Rd	3+00	6+40	6.13	6.91	5.46
2-2A	McIntosh Rd	8+50	12+40			
2-2B	McIntosh Rd	6+40	8+50	6.13	6.25	6.49
2-2C	McIntosh Rd	11+75	14+20			
3-1	McIntosh Rd	19+70	26+30	4.93	4.93	5.59
3-2	McIntosh Rd	19+70	28+40	4.93	5.07	6.87
4-1	McIntosh Rd	37+00	46+00	7.95	8.57	10.94
5-1	McIntosh Rd	49+80	51+85	0.91	1.53	1.64
5-2	McIntosh Rd	46+60	49+80	0.91	1.41	2.32

Refer to **Figure 7-1** for the Floodplain Impact Area Map.





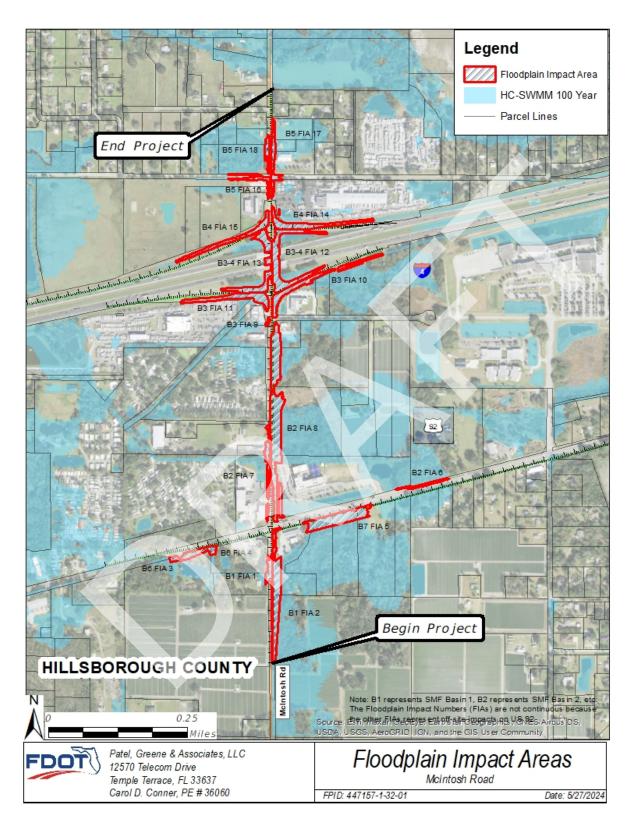


Figure 7-1: Floodplain Impact Area Map



8. STORMWATER PONDS

The following summarizes the proposed pond alternatives for each of the basins. Impervious areas were based on the impervious limits shown in the proposed typical sections. Miscellaneous impervious areas such as driveways and gore areas were estimated at 10% of the total impervious area. Sidewalks and shared use paths were included in impervious calculations. Refer to **Appendix A** for a map with the locations of the SMF site alternatives, as well as a map of the preferred SMF sites. Preliminary pond sizing calculations are included in **Appendix C**. Preliminary construction and ROW costs were estimated for each SMF site alternative and are included in **Appendix D**. Refer to **Appendix E** for the SMF pond evaluation matrix. Additional refinements do the SMF sites should be explored during the design phase when routing calculations are performed.

8.1. SMF 1&7

SMF 1&7 will provide treatment and attenuation for Basins 1 and 7. In the proposed condition, Basin 1 is 3.87 acres and Basin 7 is 7.13 acres, a reduction in size from the existing condition. This reduction in basin size is due to the widening of US 92 occurring to the south side, the entire existing road will drain to one side of the normal crown. Therefore, some of the area currently flowing to Basin 7 in the existing condition will be going to Basin 2.

SMF 1&7-1 is located near Sta 3+28 (LT). SMF 1&7-1 has been sized based on an existing average ground elevation of 55 ft. The SHGWT was estimated at 54.10 ft based on the average SHGW elevation from the geotechnical borings. The total required right-of-way area for SMF 1&7-1 is 2.58 acres. SMF 1&7-1 is the preferred alternative for Basins 1 and 7.

SMF 1&7-2 is located near Sta 9+53 (LT). SMF 1&7-2 has been sized based on an existing average ground elevation of 55 ft. The SHGWT was estimated at 54.20 ft based on the average SHGW elevation from the geotechnical borings. The total required right-of-way area for SMF 1&7-2 is 2.58 acres.

8.2. SMF 2

SMF 2 will provide treatment and attenuation for Basin 2. In the proposed condition, Basin 2 is 11.79 acres, an increase in size from the existing condition. This increase in basin size is due to the roadway widening occurring to the south side of US 92.

SMF 2-1 is located near Sta 21+94 (LT). SMF 2-1 has been sized based on an existing average ground elevation of 55.75 ft. The SHGWT was estimated at 55.10 ft based on the average SHGW elevation from the geotechnical borings. SMF 2-1 will require an impermeable pond liner in order to set the control elevation for the pond at 52.51 ft to meet the treatment and attenuation requirements. The total required right-of-way area for SMF 2-1 is 3.13 acres.

SMF 2-2 is located near Sta 24+88 (RT). SMF 2-2 has been sized based on an existing average ground elevation of 57.25 ft. The SHGWT was estimated at 55.90 ft based on the average SHGW elevation from the geotechnical borings. SMF 2-2 will require an impermeable pond liner in order to set the control elevation for the pond at 52.91 ft to meet the treatment and attenuation requirements. The total required right-of-way area for SMF 2-2 is 2.51 acres. SMF 2-2 is the preferred alternative for Basin 2.



8.3. SMF 3

SMF 3 will provide treatment and attenuation for Basin 3. In the proposed condition, Basin 3 is 8.75 acres.

SMF 3-1 is located near Sta 27+74 (RT). SMF 3-1 has been sized based on an existing average ground elevation of 58.00 ft. The SHGWT was estimated at 56.20 ft based on the average SHGW elevation from the geotechnical borings. SMF 3-1 will require an impermeable pond liner in order to set the control elevation for the pond at 55.69 ft to meet the treatment and attenuation requirements. The total required right-of-way area for SMF 3-1 is 3.35 acres. SMF 3-1 is the preferred alternative for Basin 3.

SMF 3-2 is located near Sta 28+65 (RT). SMF 3-2 has been sized based on an existing average ground elevation of 58.50 ft. The SHGWT was estimated at 56.70 ft based on the average SHGW elevation from the geotechnical borings. SMF 3-2 will require an impermeable pond liner in order to set the control elevation for the pond at 55.60 ft to meet the treatment and attenuation requirements. The total required right-of-way area for SMF 3-2 is 3.27 acres.

8.4. EXISTING FDOT POND 7

Existing FDOT Pond 7 will provide treatment and attention for Basin 4. In the proposed condition, Basin 4 is 11.86 acres. Based on the current TBNext Draft Pond Evaluation Report, existing FDOT Pond 7 can be modified either by expansion or modifications to the pond control structure to provide enough capacity to accommodate the proposed McIntosh Road improvements. Excerpts from the TBNext Draft Pond Evaluation Report are provided in **Appendix H.** The TB Next calculations anticipate re-routing the southwest quandrant of the I-4/McIntosh Interchange (Basin BA McSouth) to FDOT Pond 7. However, that basin is anticipated to drain to McIntosh Basin 3 in this report. The existing FDOT Pond 7 is the preferred alternative for Basin 4.

8.5. SMF 5

SMF 5 will provide treatment and attenuation for Basin 5. In the proposed condition, Basin 5 is 4.71 acres.

SMF 5-1 is located near Sta 47+73 (RT). SMF 5-1 has been sized based on an existing average ground elevation of 56.00 ft. The SHGWT was estimated at 55.80 ft based on the average SHGW elevation from the geotechnical borings. SMF 5-1 will require an impermeable pond liner in order to set the control elevation for the pond at 53.43 ft to meet the treatment and attenuation requirements. The total required right-of-way area for SMF 5-1 is 1.92 acres.

SMF 5-2 is located near Sta 44+33 (LT). SMF 5-2 has been sized based on an existing average ground elevation of 56.25 ft. The SHGWT was estimated at 55.90 ft based on the average SHGW elevation from the geotechnical borings. SMF 5-2 will require an impermeable pond liner in order to set the control elevation for the pond at 53.57 ft to meet the treatment and attenuation requirements. The total required right-of-way area for SMF 5-2 is 2.18 acres. SMF 5-2 is the preferred alternative for Basin 5.

SMF 5-3 is located near Sta 54+00 (LT). SMF 5-3 has been sized based on an existing average ground elevation of 56.5 ft. The SHGWT was estimated at 55.30 ft based on the average SHGW elevation from the geotechnical borings. SMF 5-3 will require an impermeable pond liner in order to set the control elevation for the pond at 53.32 ft to meet the treatment and attenuation requirements. The total required right-of-way area for SMF 5-3 is 1.56 acres.

The SMF site alternatives are summarized in **Table 8-1**.



Table 8-1:SMF Site Alternatives Summary

SMF	Alignment	From Station	To Station	Required treatment and attenuation (ac-ft)	Provided treatment and attenuation (ac-ft)	SMF Site R/W Area (incl. easements) (ac)	
1&7-1	McIntosh Rd	2+04.52	4+54.60	0.95	1.21	2.58	
1&7-2	McIntosh Rd	8+56.88	11+17.19	1.18	1.41	2.58	
2-1	McIntosh Rd	20+25.05	22+78.13	3.78	4.56	3.13	
2-2	McIntosh Rd	23+47.48	26+28.33	3.66	4.35	2.51	
3-1	McIntosh Rd	26+28.33	29+27.92	1.24	1.51	3.35	
3-2	McIntosh Rd	26+24.25	32+62.08	1.18	1.44	3.27	
Exist. Pond 7	I-4 Ramp A	0+10.89	6+37.59	Treatment and attenuation will be provided via outfall structure modification or existing pond expansion during the design phase			
5-1	I-4	46+57.71	49+84.15	0.61	0.73	1.92	
5-2	McIntosh Rd	43+31.32	45+43.25	0.63	0.78	2.18	
5-3	McIntosh Rd	53+03.61	54+87.94	0.58	0.68	1.56	



9. CONCLUSIONS

Potential ponds and floodplain compensation sites have been sized and located along the project limits for this study. Preferred pond alternatives were selected based on total cost, including ROW costs, potential impacts to listed species and their habitats, contamination risks, and potential commercial and/or residential relocations. The analysis estimates the required ROW for SMFs based on needed water quality treatment and water quantity for runoff attenuation. The required ROW for floodplain compensation sites was based on cup-for-cup volumetric compensation approach. The estimated ROW areas for the ponds were based on pond and floodplain compensation site sizes determined from preliminary data calculations, reasonable engineering judgment, and assumptions. Pond and floodplain compensation site sizes and configurations may change during final design as more detailed information on SHWT elevation, final roadway profile design, etc. become available. Refer to **Table 9-1** for a summary of the preferred SMF sites and **Table 9-2** for a summary of the preferred FPC sites.

Preferred Pond R/W Pond Area (incl. Basin **Alignment** From Station **To Station Alternative** easements) Name (ac) 12+43 (McIntosh) McIntosh Rd 0+19 (McIntosh) SMF 1 & 7 2.58 & US 92 16+17 (US 92) 50+66 (US 92) 1&7-1 12+43 (McIntosh) 25+07 (McIntosh) McIntosh 2 SMF 2-2 2.51 Rd/US 92 50+65 (US 92) 16+20 (US 92) 3 38+66 SMF 3-1 3.35 McIntosh Rd 25+07 5 McIntosh Rd 44+32 54+87 SMF 5-2 2.18

Table 9-1: Preferred SMF Alternatives

^{*}Existing FDOT Pond 7 is not included since it does not require additional ROW acquisition.

Preferred FPC	Alignment	From Station	To Station	Pond R/W Area (incl. easements) (ac)
FPC 1-1	US 92	359+40	363+80	3.21
FPC 2-1	McIntosh Rd	3+00	6+40	5.46
FPC 3-2	McIntosh Rd	19+70	26+30	6.87
FPC 4-1	McIntosh Rd	37+00	46+00	10.94
FPC 5-1	McIntosh Rd	49+80	51+85	1.64

Table 9-2: Preferred FPC Site Alternatives



APPENDICES

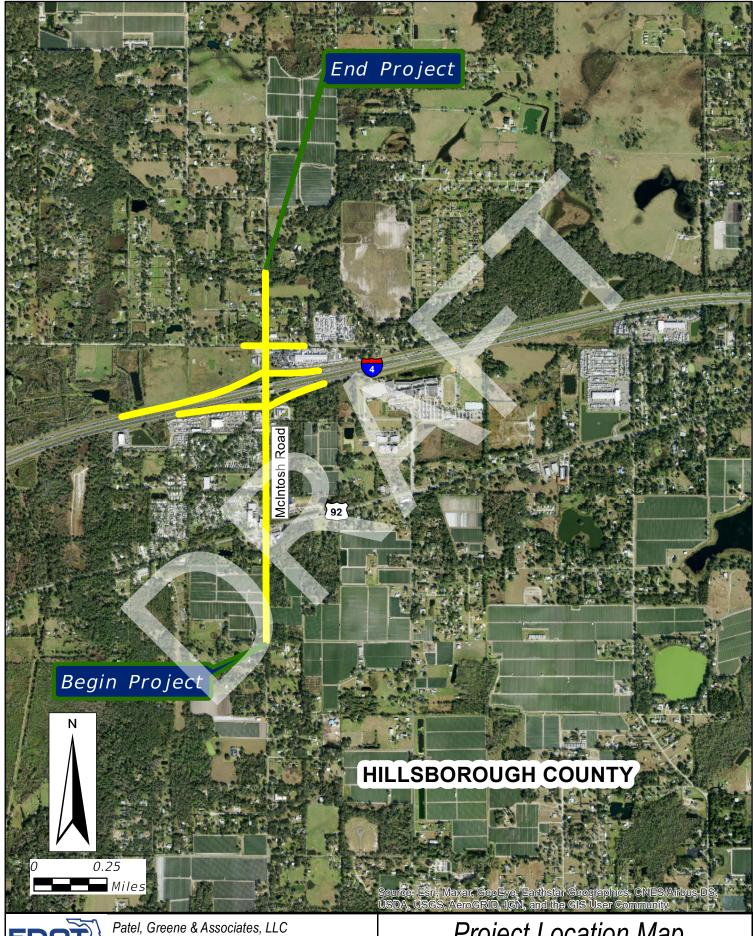
Appendix A Exhibits

- Project Location Map
- FEMA vs HC-SWMM
- NRCS Hydrologic Soils Group
- WBID Map
- ROW Exhibits
- Alternative SMF & FPC Sites
- Preferred SMF & FPC Sites
- USGS Quadrangle Map
- Existing Land Use
- Future Land Use
- Section, Township Range Map
- **Appendix B** Typical Section Packages
- **Appendix C** Preliminary Pond Sizing and Floodplain Compensation Calculations (includes Pond Liner Calculations)
- **Appendix D** Estimated Pond Construction and ROW Costs
- Appendix E Pond Site Evaluation Matrices
- **Appendix F** Correspondence/Meeting Minutes
- **Appendix G** Proposed Basin Maps
- Appendix H Excerpts from TBNext Draft Pond Evaluation Report
- Appendix I Geotechnical Information





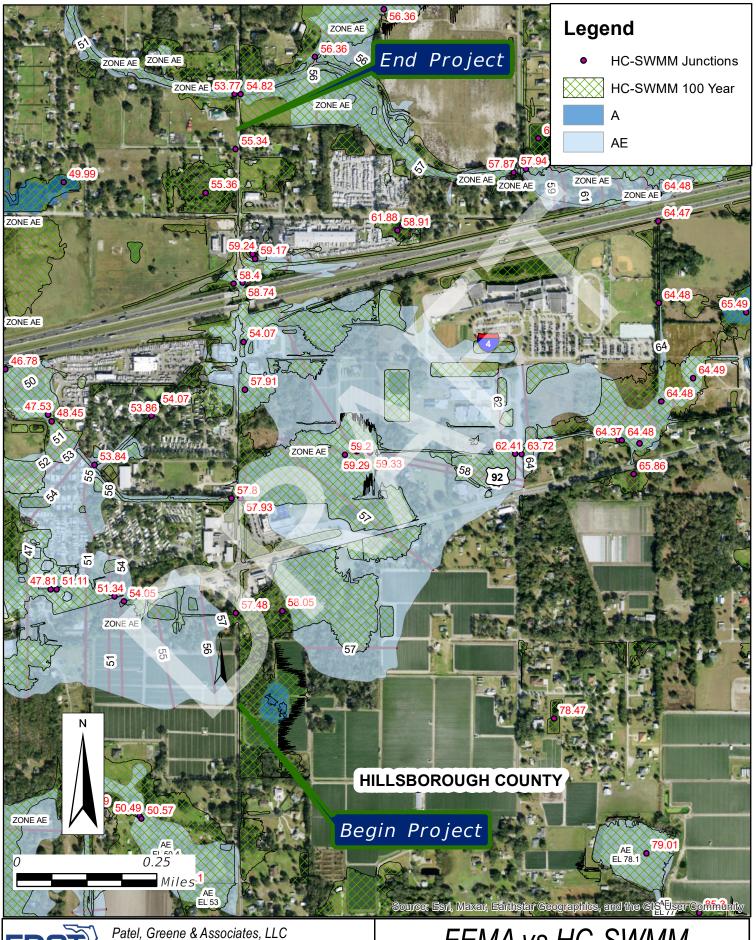
Appendix A Exhibits



12570 Telecom Drive Temple Terrace, FL 33637 Carol D. Conner, PE # 36060 Project Location Map

McIntosh Road

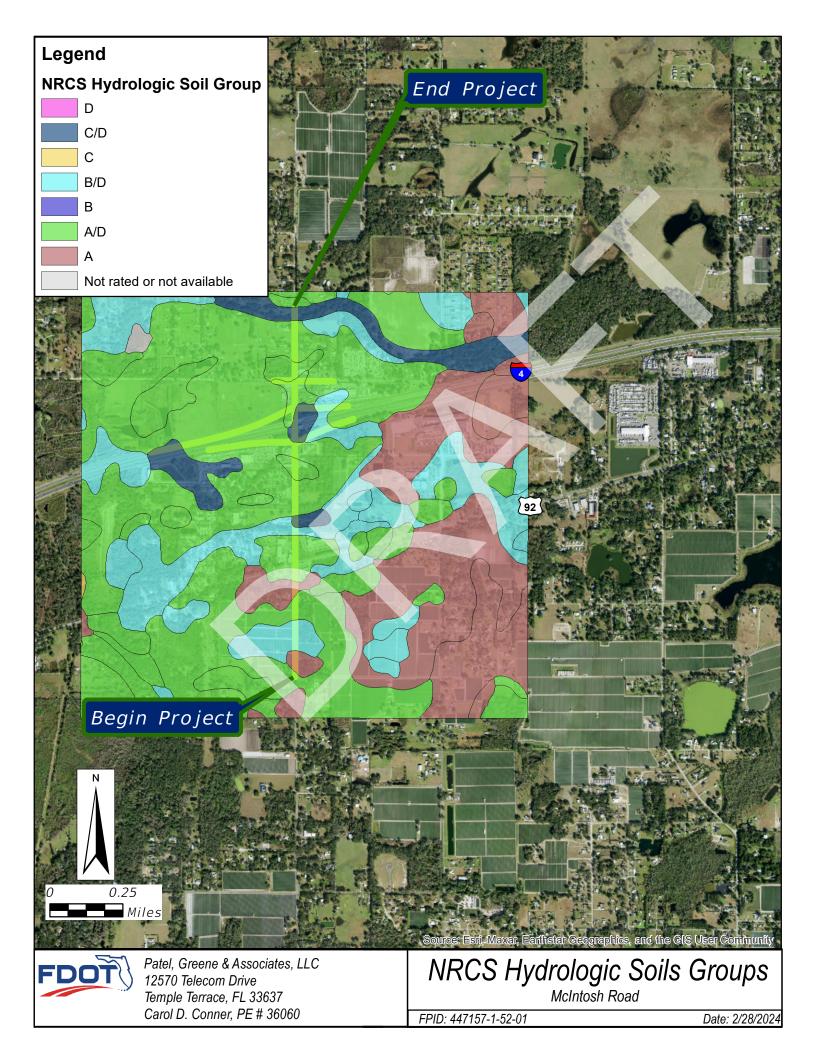
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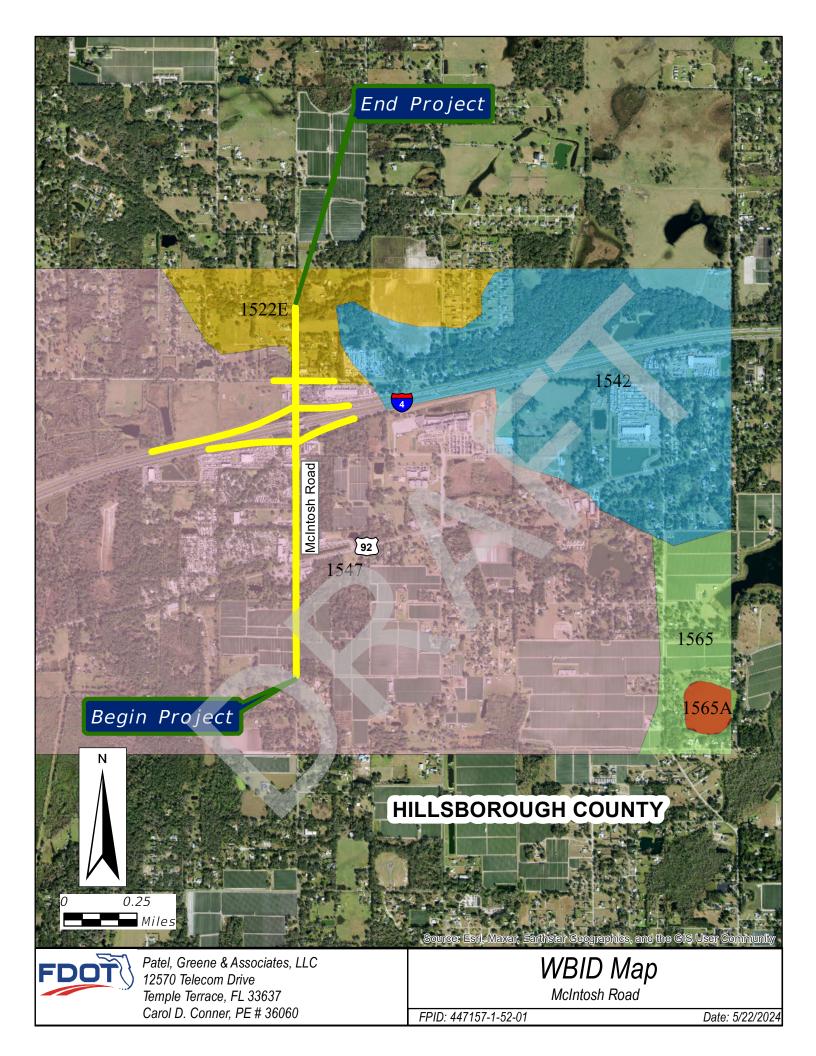


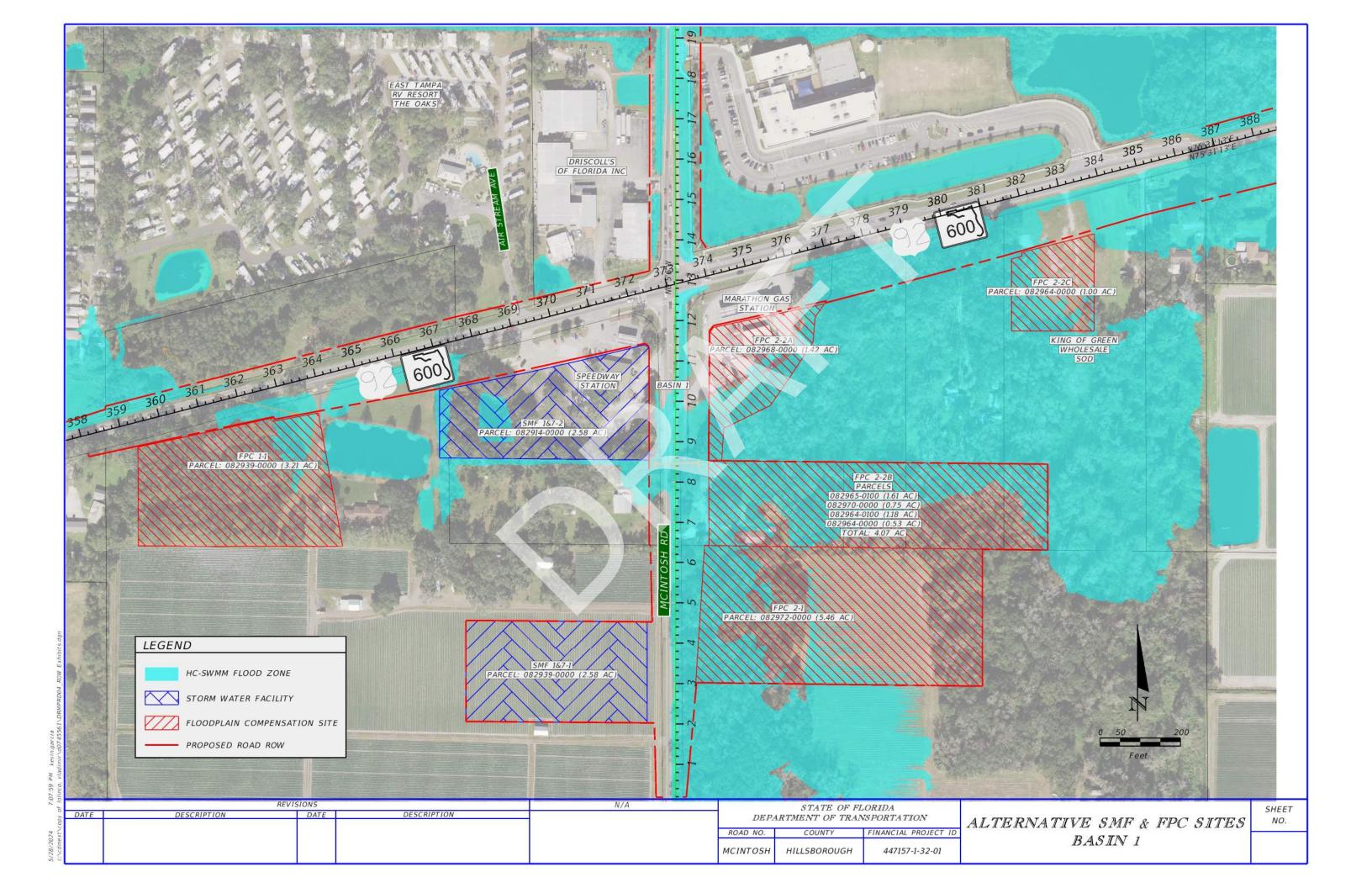
12570 Telecom Drive Temple Terrace, FL 33637 Carol D. Conner, PE # 36060 FEMA vs HC-SWMM

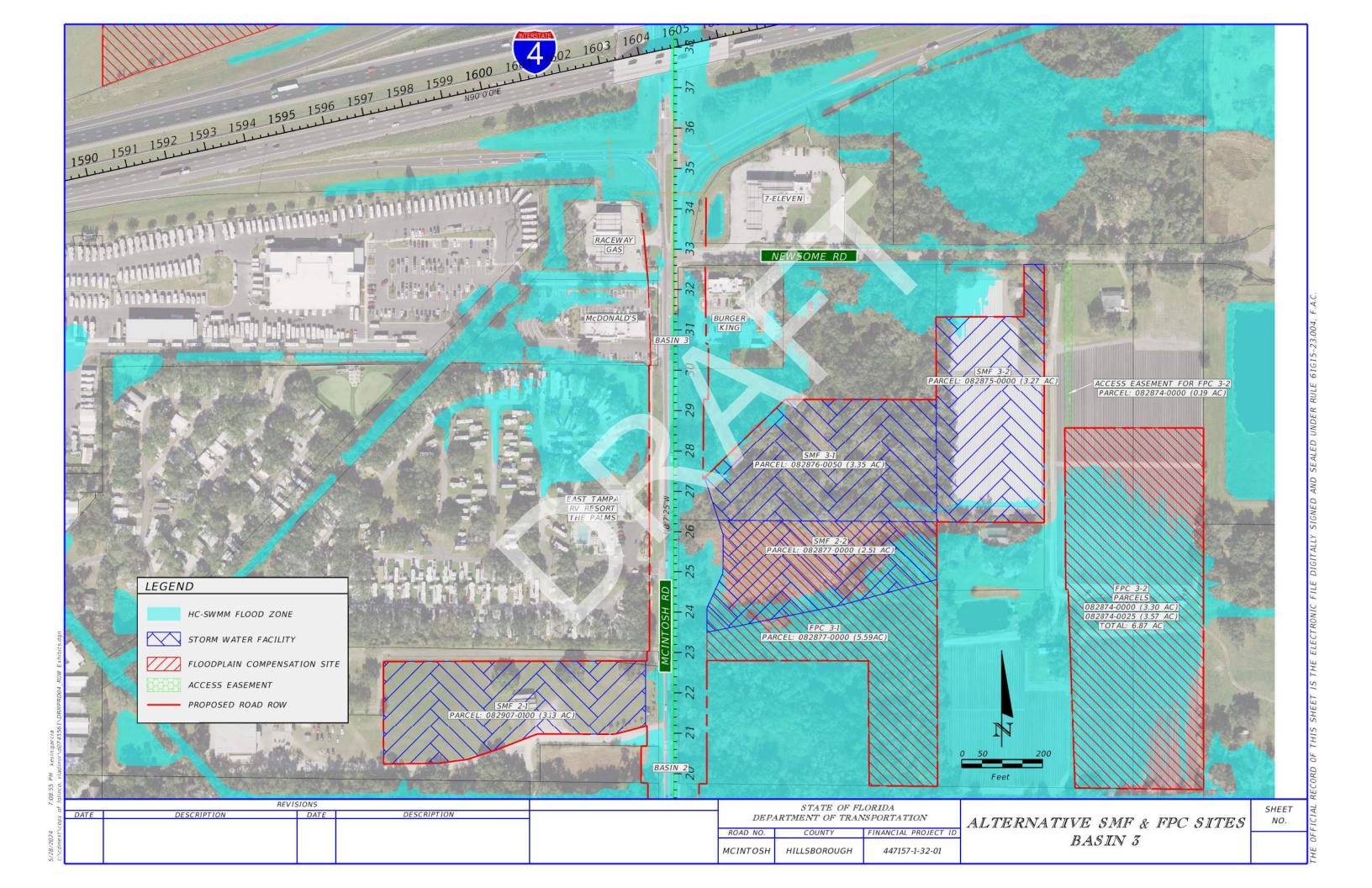
McIntosh Road

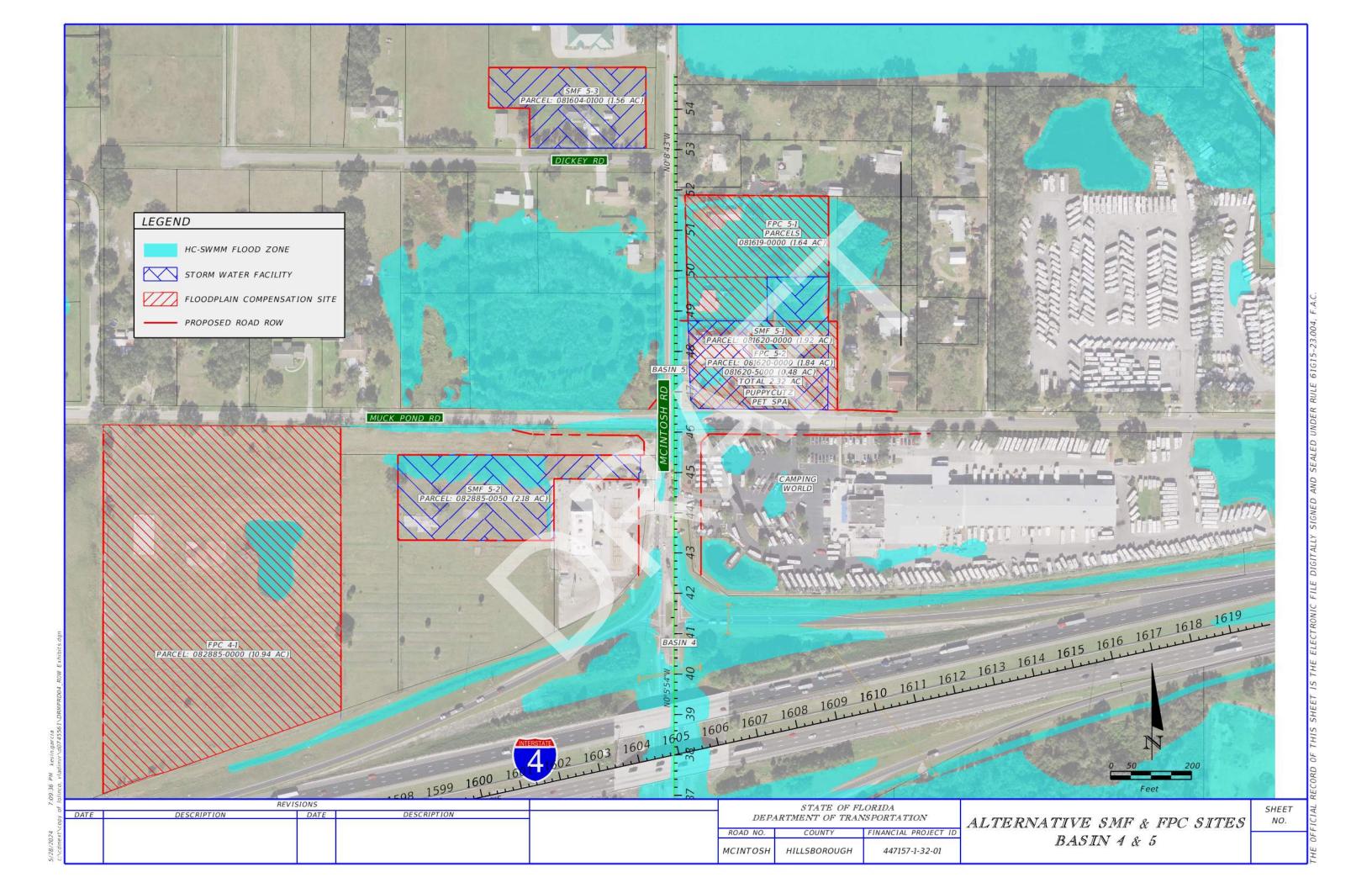
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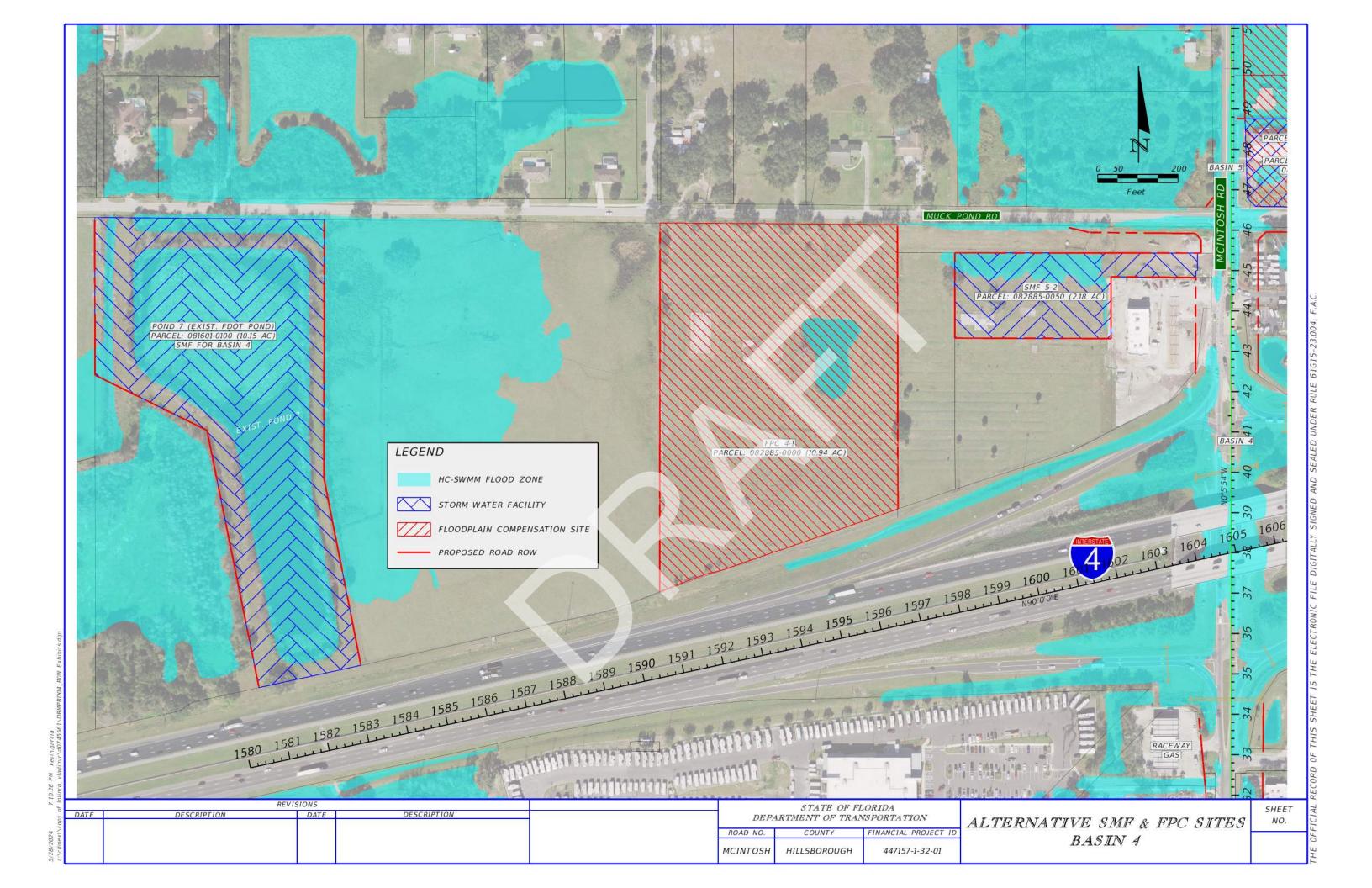


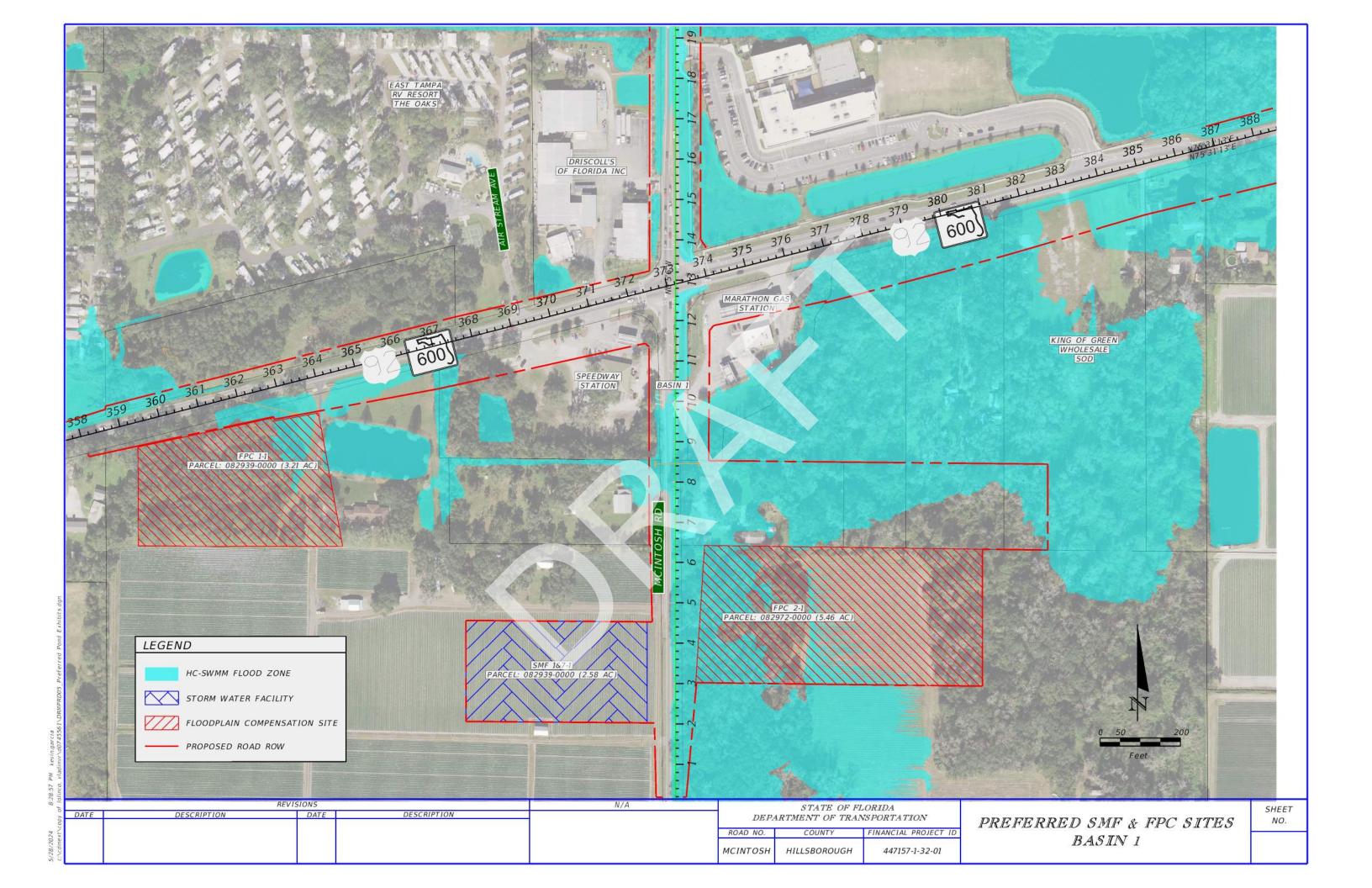


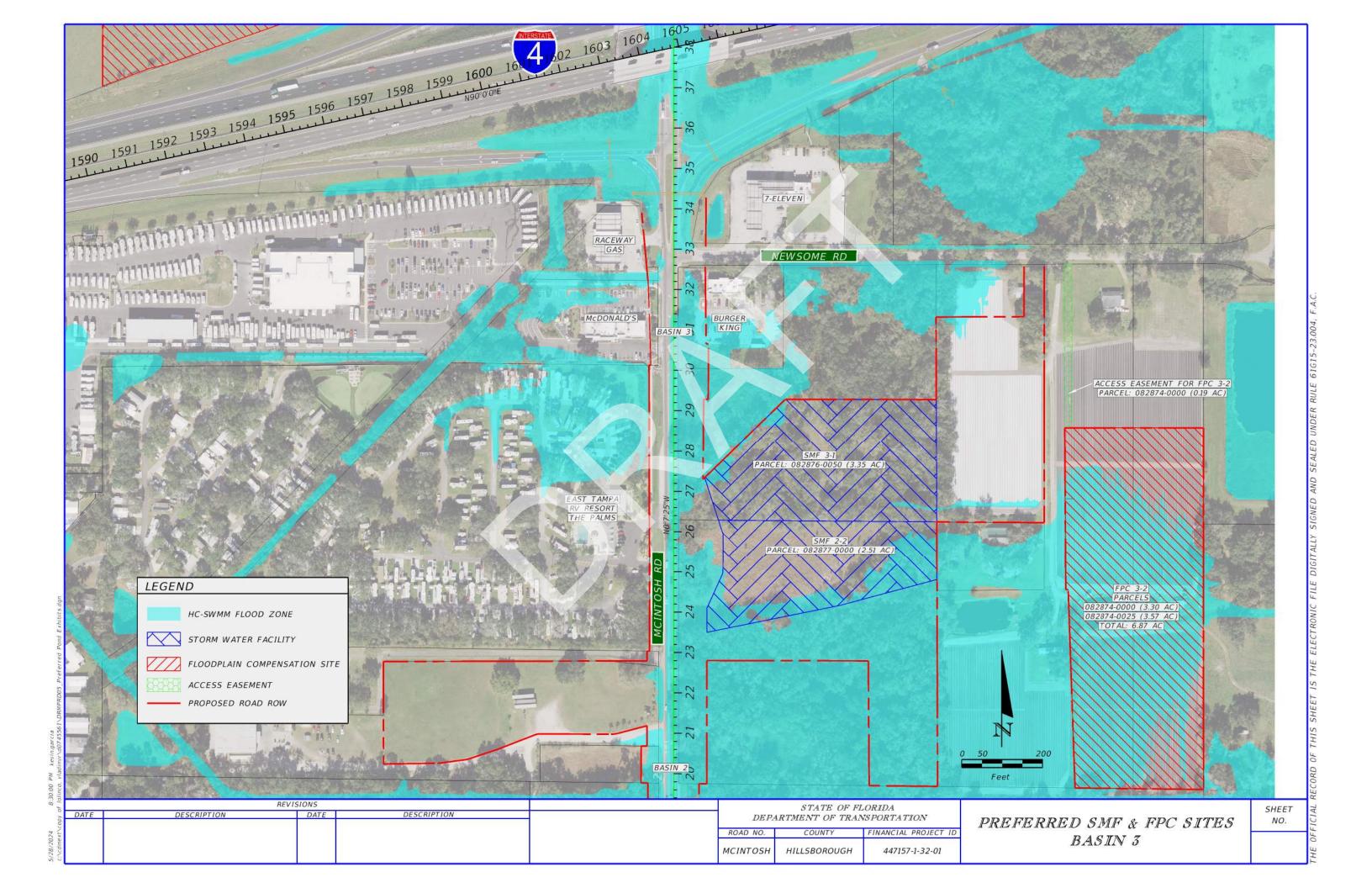


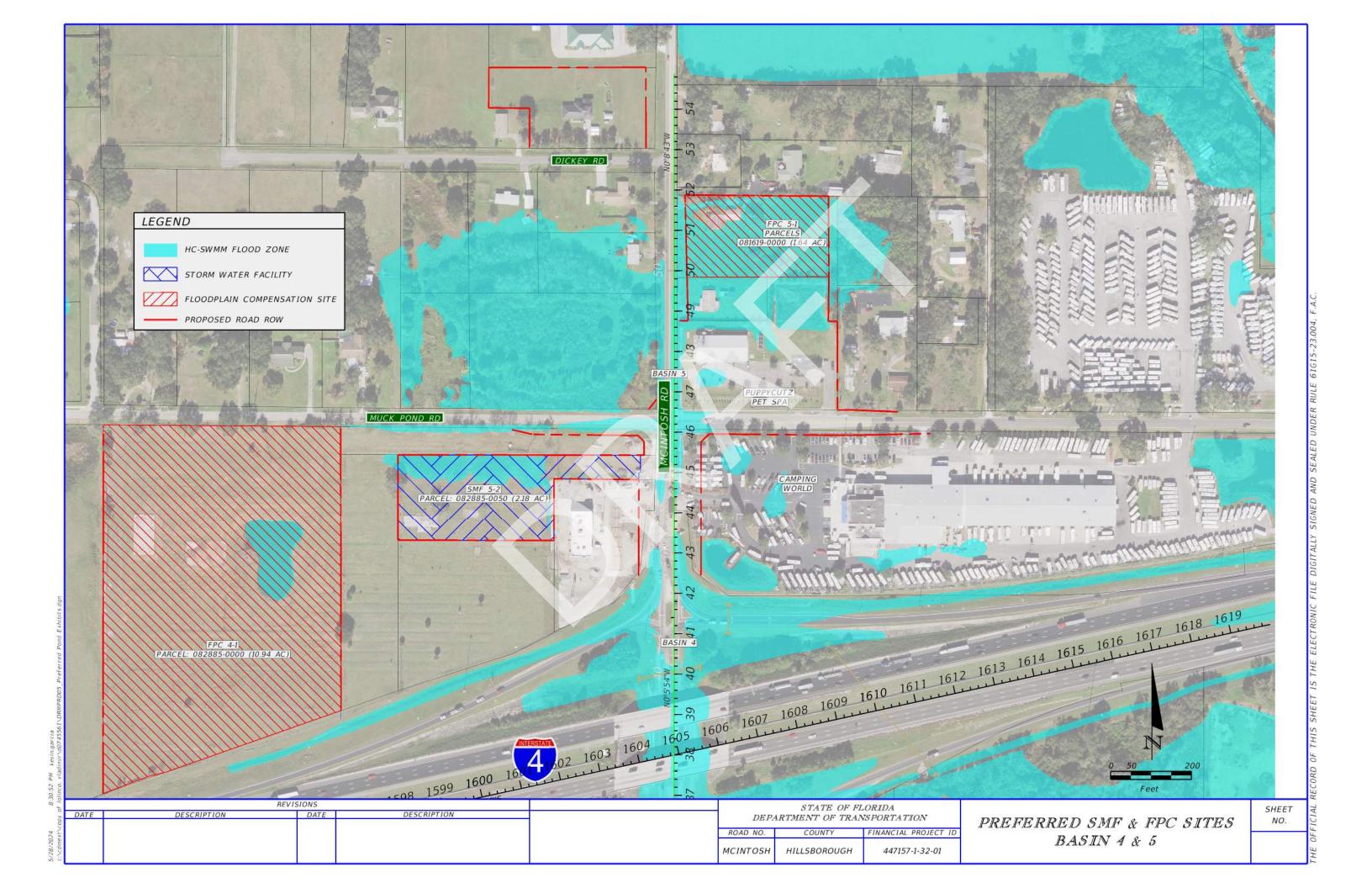


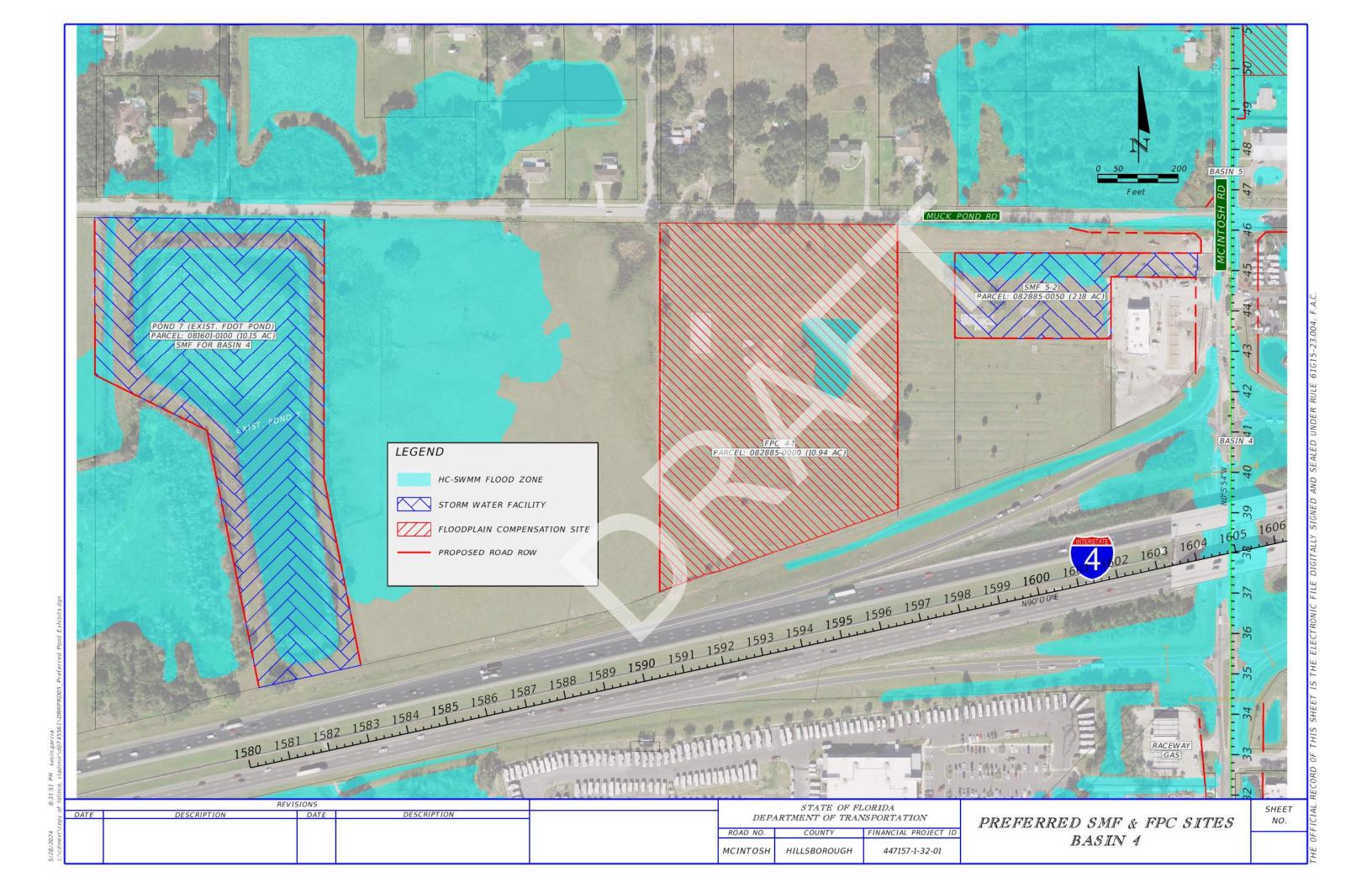


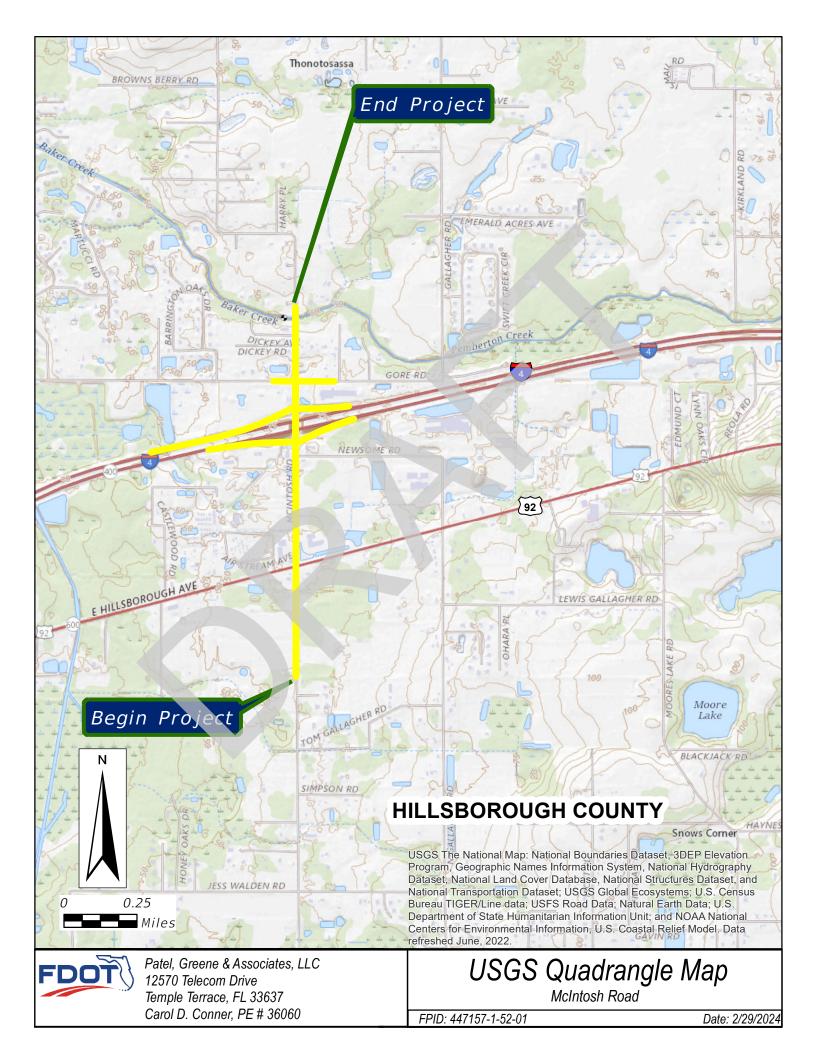


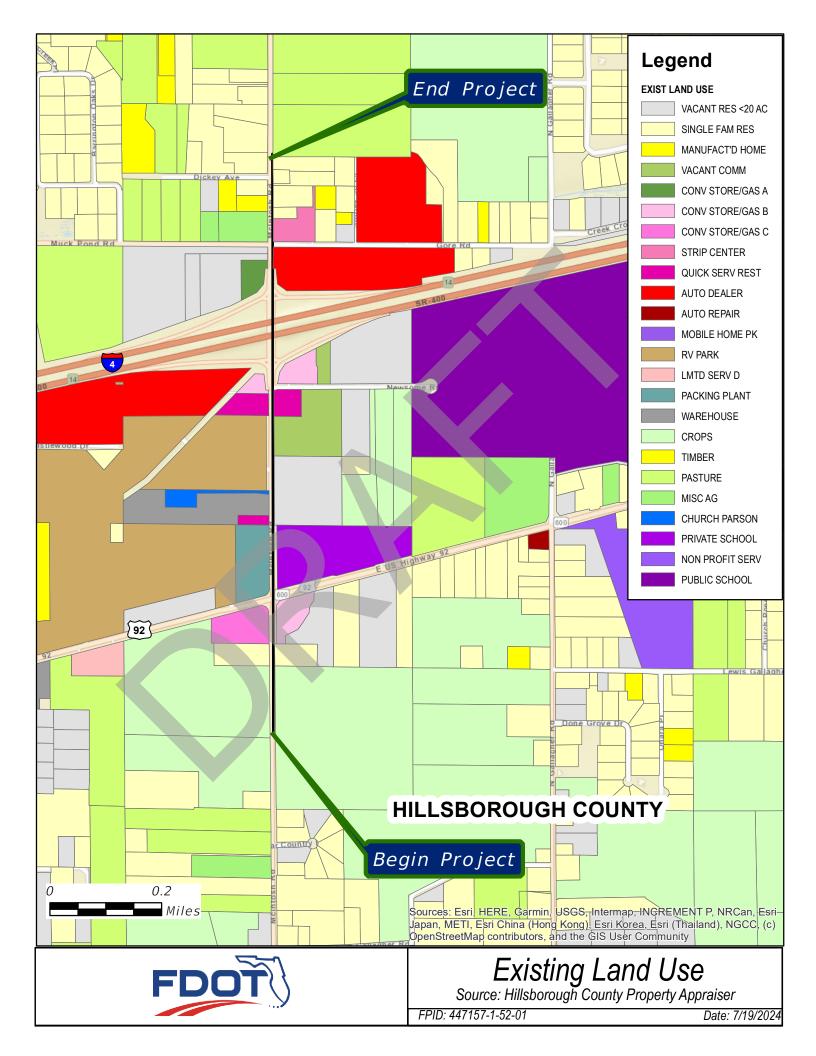


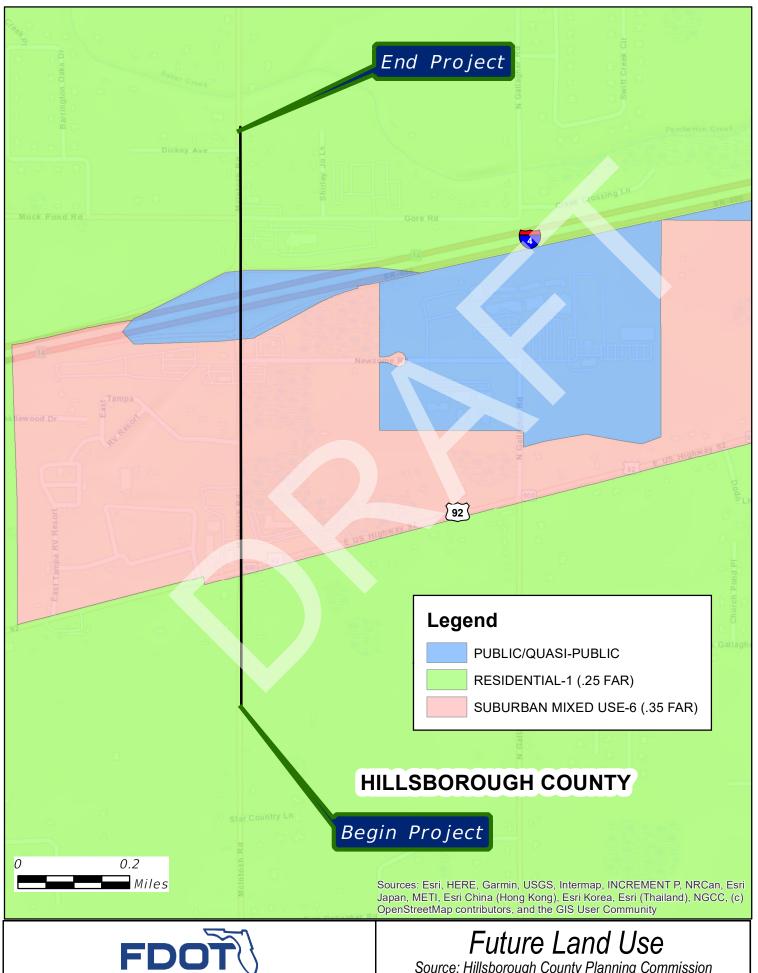










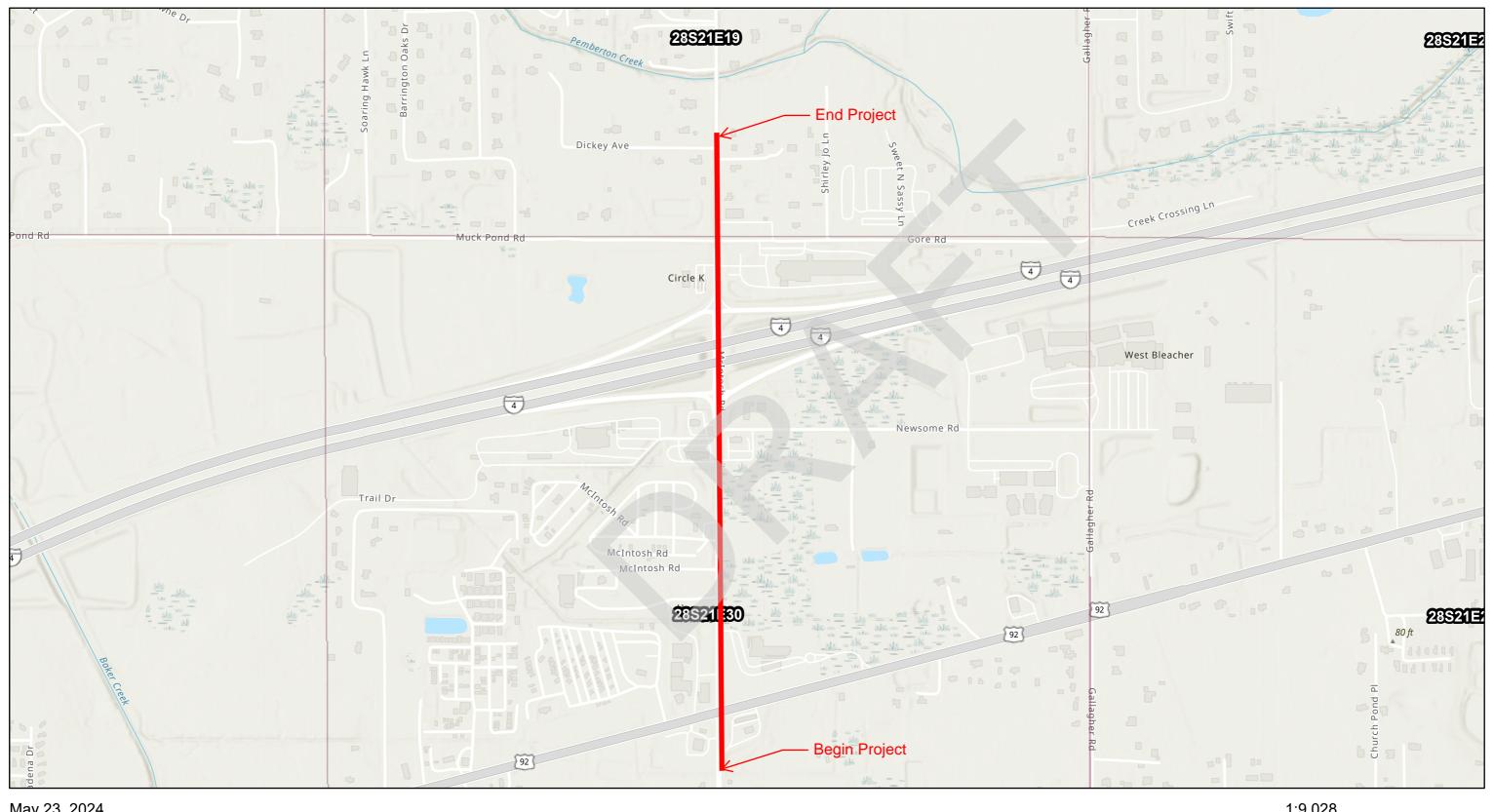




Source: Hillsborough County Planning Commission

FPID: 447157-1-32-01 Date: 7/17/2024

Section, Township, Range Map for McIntosh Road



1:9,028

Public Land Survey System 2006

0 0.1 0.2

0 0.15 0.3

Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, University of South Florida, City of Tampa, FDEP, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS,

0.4 mi

0.6 km



Appendix BTypical Section Packages

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION PACKAGE

FINANCIAL PROJECT ID 447157-1-52-01 (FEDERAL FUNDS) HILLSBOROUGH COUNTY (10900031 & 10000622) MCINTOSH ROAD ADD LANES AND RECONSTRUCT FROM S. OF US 92 TO N. OF I - 4

FDOT DISTRICT TRAFFIC OPERATIONS FDOT DISTRICT DESIGN ENGINEER ENGINEER

CONCURRING WITH: TYPICAL SECTION ELEMENTS TARGET SPEED CONCURRING WITH: TARGET SPEED DESIGN & POSTED SPEEDS DESIGN & POSTED SPEEDS

FDOT DISTRICT INTERMODAL SYSTEMS DEVELOPMENT MANAGER FDOT DISTRICT STRUCTURES DESIGN ENGINEER

CONCURRING WITH: CONTEXT CLASSIFICATION TARGET SPEED CONCURRING WITH: TYPICAL SECTION ELEMENTS

FHWA TRANSPORTATION ENGINEER LOCAL TRANSPORTATION ENGINEER

CONCURRING WITH:

NOT USED

TYPICAL SECTION ELEMENTS

PROJECT LOCATION URL: https://tinyurl.com/34tuk4p2

PROJECT LIMITS: BEGIN MP 0.000 - END MP 0.795 (#10000622)

EXCEPTIONS:

BRIDGE LIMITS: NONE

RAILROAD CROSSING:

*NOTE: TYPICAL SECTIONS FOR I-4 RAMPS ARE NOT WITHIN

HILLSBOROUGH COUNTY ENGINEER'S JURISDICTION.

BEGIN MP 0.204 - END MP 0.443 (#10900031)

NONE

NONE

TAMPA LAUDERDALE LOCATION OF PROJECT

APPROVED BY:

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

SIONAL ENGINE

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

4010 W. BOY SCOUT BLVD. STE. 450 TAMPA, FL 33607 REJA E. RABBI, P.E. NO. 84637

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

INDEX OF SHEETS

SHEET NO

CONCURRING WITH: CONCURRING WITH:

CONCURRING WITH: TYPICAL SECTION ELEMENTS

NOT USED

SHEET

CONTEXT CLASSIFICATION

- () C1: NATURAL
- (X) C3C: SUBURBAN COMM.
- () C2: RURAL
- () C4: URBAN GENERAL
- () C2T : RURAL TOWN
- () C5: URBAN CENTER
- C6 : URBAN CORE ()
- () C3R: SUBURBAN RES. () N/A: L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE
- (X) MAJOR COLLECTOR
- () FREEWAY/EXPWY.
- () MINOR COLLECTOR
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- NATIONAL HIGHWAY SYSTEM
- STRATEGIC INTERMODAL SYSTEM ()
- () STATE HIGHWAY SYSTEM
- OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

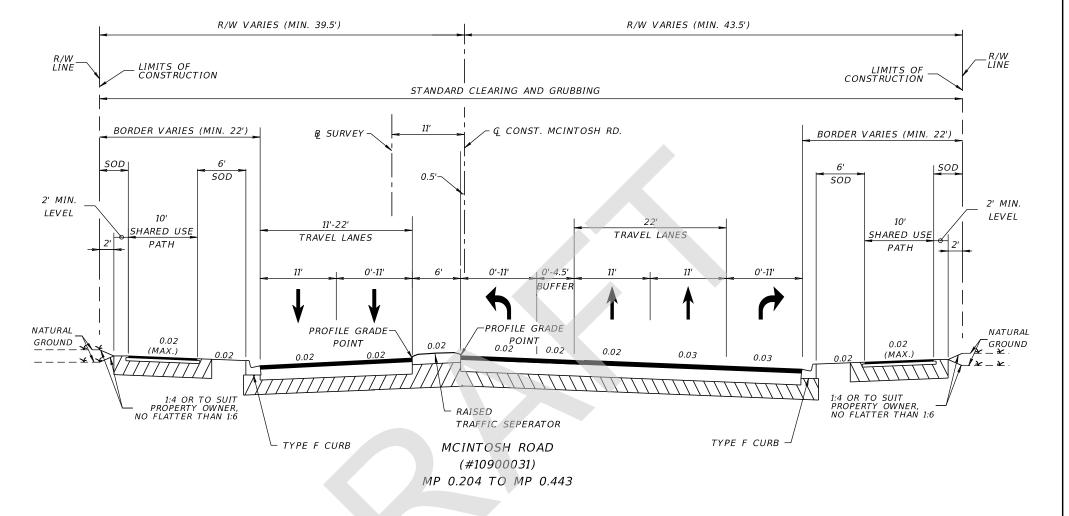
- () 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- () 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- (X) 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 1



NOTE

1. TRAFFIC DATA PER 2021 18-KIP ESAL REPORT

TRAFFIC DATA (S OF US-92)

= 2020 AADT = 11000

ESTIMATED OPENING YEAR = 2030 AADT = 13800 ESTIMATED DESIGN YEAR = 2050 AADT = 19400

K = 9.00% D = 58.10% T = 12.5% (24 HOUR)

DESIGN HOUR T = 6.25%

CURRENT YEAR

TARGET SPEED = 35 MPH

DESIGN SPEED = 35 MPH POSTED SPEED = 35 MPH

FINANCIAL PROJECT ID	SHEET NO.	
447157-1-52-01	2	

CONTEXT CLASSIFICATION

- () C1: NATURAL
- (X) C3C: SUBURBAN COMM.
- () C2: RURAL
- () C4: URBAN GENERAL
- () C2T : RURAL TOWN

- () C5: URBAN CENTER C6 : URBAN CORE
- () C3R: SUBURBAN RES.
- () N/A: L.A. FACILITY

FUNCTIONAL CLASSIFICATION

()

- () INTERSTATE
- (X) MAJOR COLLECTOR
- () FREEWAY/EXPWY.
- () MINOR COLLECTOR
- () PRINCIPAL ARTERIAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- STRATEGIC INTERMODAL SYSTEM ()
- () STATE HIGHWAY SYSTEM
- OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

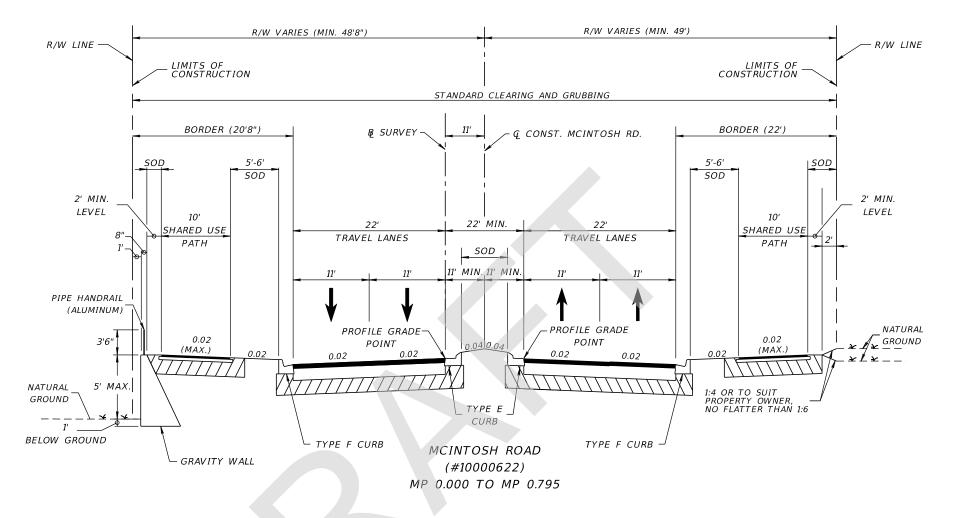
- () 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- () 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- (X) 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 2



NOTE

- 1. TRAFFIC DATA PER 2021 18-KIP ESAL REPORT
 2. GRAVITY WALL LIMITS FROM MP 0.014 TO MP 0.141 AND FROM MP 0.330 TO MP 0.367 LT.
 3. GRAVITY WALL LIMITS FROM MP 0.645 TO MP 0.729 RT.

TRAFFIC DATA (S OF I-4)

CURRENT YEAR = 2020 AADT = 21000ESTIMATED OPENING YEAR = 2030 AADT = 26400 ESTIMATED DESIGN YEAR = 2050 AADT = 37200 K = 9.00% D = 58.10% T = 12.5% (24 HOUR) DESIGN HOUR T = 6.25%

TARGET SPEED = 35 MPH DESIGN SPEED = 35 MPH POSTED SPEED = 35 MPH

TRAFFIC DATA (N OF I-4)

CURRENT YEAR = 2020 AADT = 10000ESTIMATED OPENING YEAR = 2030 AADT = 12600 ESTIMATED DESIGN YEAR = 2050 AADT = 17800 K = 9.00% D = 58.10% T = 12.5% (24 HOUR) DESIGN HOUR T = 6.25%TARGET SPEED = 35 MPH DESIGN SPEED = 35 MPH POSTED SPEED = 35 MPH

FINANCIAL PROJECT ID	SHEET NO.
447157-1-52-01	3

CONTEXT CLASSIFICATION

- () C1: NATURAL () C3C: SUBURBAN COMM.
- () C2: RURAL () C4: URBAN GENERAL
- () C2T: RURAL TOWN () C5: URBAN CENTER () C3R: SUBURBAN RES. () C6: URBAN CORE
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- (X) INTERSTATE () MAJOR COLLECTOR
- () FREEWAY/EXPWY. () MINOR COLLECTOR
- () PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- (X) NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

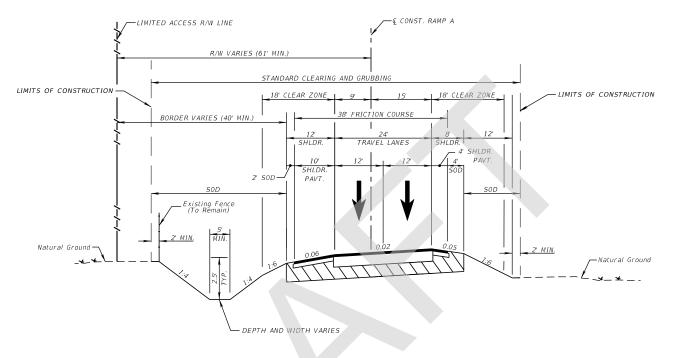
- (X) 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- () 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 3



I-4/SR 400

RAMP A
WB ON-RAMP (#10190108)
I-4/SR 400
MP 20.718 TO MP 21.197
(TWO LANE RAMP)

TRAFFIC DATA FOR WB ON RAMP (RAMP A)

CURRENT YEAR = 2022 AADT = 5900ESTIMATED OPENING YEAR = 2030 AADT = 6900ESTIMATED DESIGN YEAR = 2050 AADT = 9300 K = 9.00% D = 100.00% T = 12.00% (24 HOUR)DESIGN HOUR T = 6.00%DESIGN SPEED = 40 MPH

TRAFFIC DATA FOR EB ON RAMP (RAMP C)

CURRENT YEAR = 2022 AADT = 5100 ESTIMATED OPENING YEAR = 2030 AADT = 6500 ESTIMATED DESIGN YEAR = 2050 AADT = 9900 K = 9.00% D = 100.00% T = 12.00% (24 HOUR) DESIGN HOUR T = 6.00% DESIGN SPEED = 40 MPH

NOTE

- 1. RAMP A TYPICAL IS SHOWN, RAMP C EB ON-RAMP (#10190111) MP 21.195 TO MP 21.412 IS MIRRORED
- 2. TRAFFIC DATA PER 2023 18-KIP ESAL REPORT

NOT TO SCALE

FINANCIAL PROJECT ID	SHEET NO.
447157-1-52-01	4

5/6/2024 7:39:38 PM MALAWADEPP

CONTEXT CLASSIFICATION

- () C1: NATURAL () C3C : SUBURBAN COMM. () C2: RURAL () C4: URBAN GENERAL
- () C5: URBAN CENTER () C2T : RURAL TOWN () C3R: SUBURBAN RES. () C6: URBAN CORE
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- (X) INTERSTATE () MAJOR COLLECTOR () FREEWAY/EXPWY. () MINOR COLLECTOR
- () PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- (X) NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

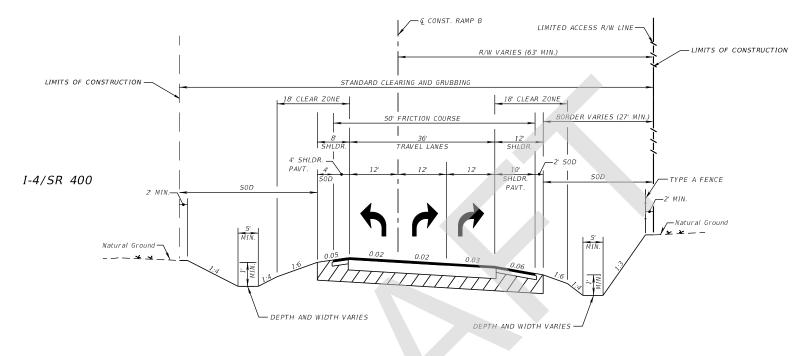
ACCESS CLASSIFICATION

- (X) 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- () 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



RAMP B EB OFF-RAMP (#10190109) I-4/SR 400 MP 20.959 TO MP 21.165 (THREE LANE RAMP)

TRAFFIC DATA FOR EB OFF RAMP (RAMP B)

CURRENT YEAR = 2022 AADT = 5700ESTIMATED OPENING YEAR = 2030 AADT = 6600 ESTIMATED DESIGN YEAR = 2050 AADT = 9000 K = 9.00% D = 100.00% T = 12.00% (24 HOUR) DESIGN HOUR T = 6.00%DESIGN SPEED = 40 MPH

NOTE

1. TRAFFIC DATA PER 2023 18-KIP ESAL REPORT

FINANCIAL PROJECT ID	SHEET NO.
447157-1-52-01	5

CONTEXT CLASSIFICATION

- () C1: NATURAL () C3C : SUBURBAN COMM.
- () C2: RURAL () C4: URBAN GENERAL
- () C5: URBAN CENTER () C2T : RURAL TOWN
- () C3R: SUBURBAN RES. () C6: URBAN CORE
- (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- (X) INTERSTATE () MAJOR COLLECTOR
- () FREEWAY/EXPWY. () MINOR COLLECTOR
- () PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- (X) NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

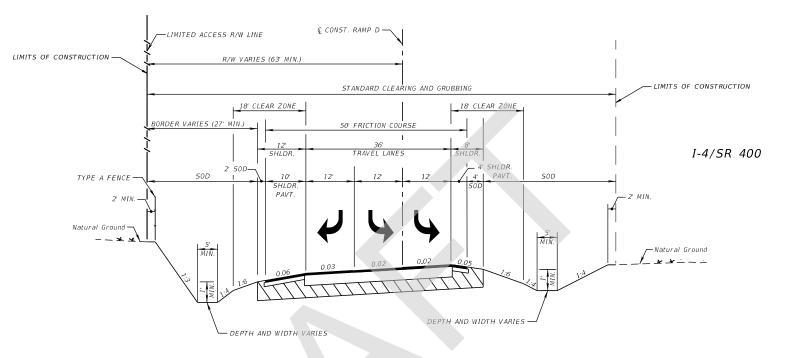
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- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- () 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 5



RAMP D WB OFF-RAMP (#10190110) I-4/SR 400 MP 21.190 TO MP 21.372 (THREE LANE RAMP)

TRAFFIC DATA FOR WB OFF RAMP (RAMP D)

CURRENT YEAR = 2022 AADT = 4100ESTIMATED OPENING YEAR = 2030 AADT = 5000 ESTIMATED DESIGN YEAR = 2050 AADT = 7300 K = 9.00% D = 100.00% T = 12.00% (24 HOUR) DESIGN HOUR T = 6.00%DESIGN SPEED = 40 MPH

<u>NOTE</u>

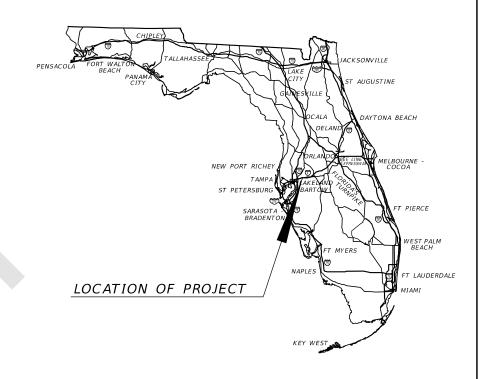
1. TRAFFIC DATA PER 2023 18-KIP ESAL REPORT

FINANCIAL PROJECT ID	SHEET NO.
447157-1-52-01	6

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION PACKAGE

FINANCIAL PROJECT ID 447158-1-52-01 (FEDERAL FUNDS) HILLSBOROUGH COUNTY (10030000) US 92/SR 600 ADD LANES AND RECONSTRUCT FROM W. OF MCINTOSH RD. TO GALLAGHER RD.



FDOT DISTRICT TRAFFIC OPERATIONS FDOT DISTRICT DESIGN ENGINEER ENGINEER

CONCURRING WITH: TYPICAL SECTION ELEMENTS TARGET SPEED DESIGN & POSTED SPEEDS CONCURRING WITH: TARGET SPEED DESIGN & POSTED SPEEDS

FDOT DISTRICT STRUCTURES

FDOT DISTRICT INTERMODAL SYSTEMS DEVELOPMENT MANAGER DESIGN ENGINEER

CONCURRING WITH: CONTEXT CLASSIFICATION TARGET SPEED CONCURRING WITH: TYPICAL SECTION ELEMENTS

FHWA TRANSPORTATION ENGINEER LOCAL TRANSPORTATION ENGINEER

CONCURRING WITH: TYPICAL SECTION ELEMENTS CONCURRING WITH: TYPICAL SECTION ELEMENTS

NOT USED NOT USED

CONCURRING WITH: CONCURRING WITH: PROJECT LOCATION URL: https://tinyurl.com/2dpv3fpd

PROJECT LIMITS: BEGIN MP 12.520 - END MP 13.731

EXCEPTIONS:

NONE

BRIDGE LIMITS:

NONE

RAILROAD CROSSING: NONE APPROVED BY:

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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4010 W BOY SCOUT BLVD. Ste. 450 TAMPA, FL 33607 REJA E. RABBI, P.E. NO. 84637

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

INDEX OF SHEETS

SHEET NO

SHEET DESCRIPTION COVER SHEET TYPICAL SECTION NO. 1

SHEET

CONTEXT CLASSIFICATION

- () C1: NATURAL (X) C3C: SUBURBAN COMM. () C2: RURAL () C4: URBAN GENERAL
- () C2T: RURAL TOWN () C5: URBAN CENTER () C3R: SUBURBAN RES. () C6: URBAN CORE
- () N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR
 () FREEWAY/EXPWY. () MINOR COLLECTOR
- (X) PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

HIGHWAY SYSTEM

- (X) NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

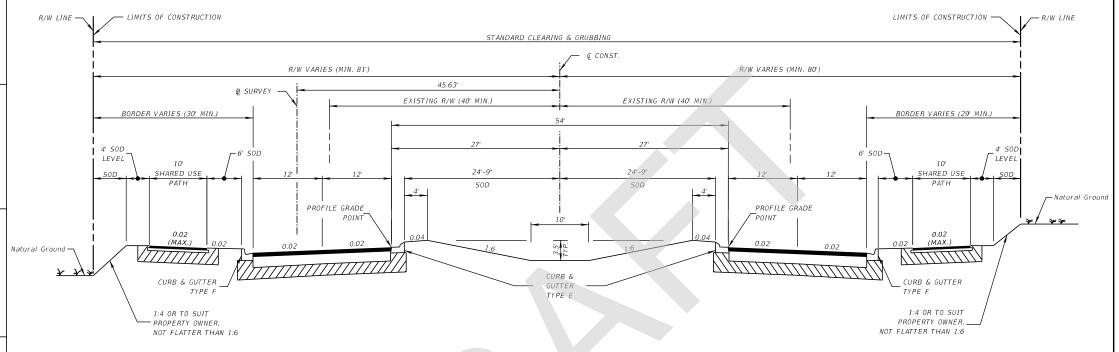
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- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
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- (X) 5 RESTRICTIVE w/440 ft. Connection Spacing
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- () 7 BOTH MEDIAN TYPES

CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

TYPICAL SECTION No. 1



US 92 (SR 600) MP 12.520 TO MP 13.731

<u>NOTE</u>

1. TRAFFIC DATA PER 2021 18-KIP ESAL REPORT

TRAFFIC DATA (E OF MCINTOSH RD) CURRENT YEAR = 2020 AADT = 12500 ESTIMATED OPENING YEAR = 2030 AADT = 20200 ESTIMATED DESIGN YEAR = 2050 AADT = 35500 K = 9.00% D = 58.10% T = 12.50% (24 HOUR) DESIGN HOUR T = 6.25% TARGET SPEED = 45 MPH DESIGN SPEED = 45 MPH POSTED SPEED = 45 MPH

TRAFFIC DATA (W OF MCINTOSH RD)

CURRENT YEAR = 2020 AADT = 10500

ESTIMATED OPENING YEAR = 2030 AADT = 16900

ESTIMATED DESIGN YEAR = 2050 AADT = 29800

K = 9.00% D = 58.10% T = 12.50% (24 HOUR)

DESIGN HOUR T = 6.25%

TARGET SPEED = 45 MPH

DESIGN SPEED = 45 MPH

POSTED SPEED = 45 MPH

FINANCIAL PROJECT ID	SHEET NO.
447158-1-52-01	2



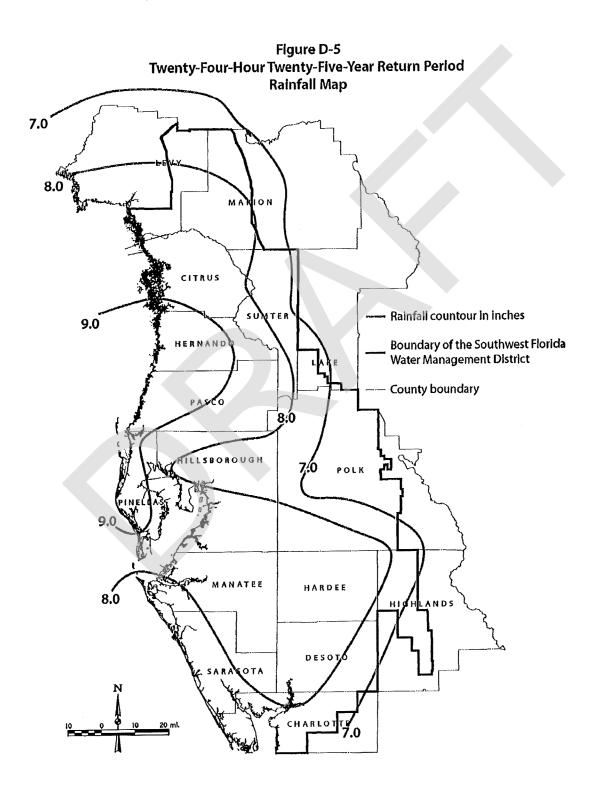
Appendix C

Preliminary Pond Sizing and Floodplain Compensation Calculations

McIntosh Road Datum Conversion

NAD83 North Latitude	28 01 08.52841
NAD83 West Longitude	082 14 25.35542
NAVD88 Orthoheight	59.495 ft
Datum Shift (NAVD-NGVD)	-0.892 ft
Converted NGVD29 Height	60.387 ft







 Designed By:
 J. Rehrl

 Date:
 7/25/2024

 Checked By:
 C. Conner

 Date:
 7/25/2024

Subject: FPID 447157-1, McIntosh Road

Description Pond Sizing Calculations

Basin: Basins 1 & 7

SMF Name: SMF 1&7-1

Centerline	<u>Pre-Basin 1</u> McIntosh	<i>Pre Basin 7</i> US 92	Total Pre	Post Basin 1	Post Basin 7	Total Post
From Station	0+19	16+17		0+19	16+17	
To Station	12+43	50+65		12+43	50+65	
Basin Length	1224.00 ft	3448.00 ft		1224.00 ft	3448.00 ft	
Total Area	3.87 ac	10.51 ac	14.38 ac	3.87 ac	7.13 ac	11.00 ac

Basin 1 Pre-developme	ent Impervious Areas				
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)	
Roadway Lanes	2	12	1224	0.67	
Shoulders	0	0	0	0.00	
Sidewalks/Shared Used Paths	1	5	365	0.04 Existing sidewalk begins at Sta 8+78	
Driveways & Other Impervious Areas	-	-	-	0.07 Estimated at 10% of total	

Total Basin 1 Pre: 0.79 ac

Basin 7 Pre-development I	mpervious Areas			
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes	1	12	3448	0.95
Shoulders	1	5	3448	0.40
Sidewalks/Shared Used Paths	0	5	0	0.00
Driveways & Other Impervious Areas	-	-	-	0.13 Estimated at 10% of total

Total Basin 7 Pre: 1.48 ac

Total Basins 1 and 7 Pre: 2.27 ac

Basin 1 Post-developm	ent Impervious Areas			
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes and Curb	4	13.25	1224	1.49 11-ft lanes with type F curb and type E curb
Shoulders	2	3	1224	0.17
Sidewalks/Shared Used Paths	2	10	1224	0.56
Driveways & Other Impervious Areas	-	-	-	0.22 Estimated at 10% of total

Total Basin 1 Post: 2.44 ac

Basin 7 Post-developm	nent Impervious Areas			
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes and Curb	2	14.25	3448	2.26 12-ft lanes with type F curb and type E curb
Shoulders	0	0	0	0.00
Sidewalks/Shared Used Paths	1	10	3448	0.79
Driveways & Other Impervious Areas	-	-	-	0.30 Estimated at 10% of total
			Total Basin 7 Post:	3.35 ac

Total Basins 1 and 7 Post: 5.79 ac

TREATMENT CALCULATIONS

Treatment Type (choose)

Runoff Treatment

Area to be Treated (choose)

Wet Detention

1.00 in.

Total Imp. Area

 Total Imp. Area
 Add'l DCIA
 Collected DCIA
 Total R/W

 5.79 ac
 3.53 ac
 5.79 ac
 13.58 ac

Treatment Volume required
Treatment Volume from existing sources (treatment types must match)*
Total Treatment volume required

*referenced from Existing Treatment and Storage Summary. 0.00 ac-ft if not applicable

0.48 ac-ft 0.00 ac-ft 0.48 ac-ft

Pond_Sizing_Calcs.xlsx/SMF 1&7-1 7/25/2024 11:04 AM

^{*}Due to the widening of US 92 occurring to the south side, the entire existing road will drain to one side of the normal crown. Therefore, some of the area currently flowing to Basin 7 in the existing condition will be going to Basin 2.

 Designed By:
 J. Rehrl

 Date:
 7/25/2024

 Checked By:
 C. Conner

 Date:
 7/25/2024

Subject: FPID 447157-1, McIntosh Road

Description Pond Sizing Calculations

Basin: Basins 1 & 7

ATTENUATION CALCULATIONS

	Wet Detention
Will attenuation be necessary? (choose)	Yes
	SWFWMD Rainfall
Precipitation Source	Map Contours
Frequency (choose)	25-yr
Time (choose)	24-hr
Precipitation Depth	7.6 in.

Pre-development Conditions

	<u>R/W Area</u>	<u>Pond Area</u>	<u>Total Area</u>
	14.38 ac	2.58 ac	16.96 ac
Total Area to be attenuated for (choose)			
Roadway and other impervious areas			2.27 ac
Open Space			14.69 ac

CN Calculations

Soil Types (provide)	Ona Fine Sand and St. Johns Fine Sand	Myakka Fine Sand	Seffner Fine Sand	
Open Space type (choose)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	
HSG (choose)	B/D	A/D	А	
		3+23 to 7+70;		
	0+19 to 3+23;	3+13 to 4+52;		
	2+52 to 3+13	10+06 to 12+43;	7+70 to 10+06;	
	18+82 to 21+72;	16+17 to 18+82;	38+04 to 50+65	
	23+28 to 26+17	21+72 to 23+28		
Station Limits		26+17 to 38+04		
<u>Length</u>	994	2431	1497	<u>Composite</u>
Percentage Basin (based on length) (provide)	21%	49%	30%	Open Space CN
<u>CN</u>	80	80	39	68.4

	<u>Area</u>	<u>C/V</u>	<u>weignted Civ</u>
Roadway and other impervious areas	2.27 ac	98	13.11
Open Space	14.69 ac	68.4	59.25
		CN _{pre} =	72.35

SCS Method for Attenuation Volume:

1,000		
$S = \frac{1,000}{CN} - 10$	S _{pre} =	3.82 in.
$\left \begin{array}{c} CV \\ (P-0.2S)^2 \end{array}\right $	Q _{pre} =	4.38 in.
$Q = \frac{(Y - 0.2S)}{P + 0.8S}$	Pre-development runoff volume =	6.20 ac-ft
1 1 0.00		

Pond_Sizing_Calcs.xlsx/SMF 1&7-1 7/25/2024 11:04 AM

Designed By: J. Rehrl

Date: 7/25/2024

Checked By: C. Conner

Date: 7/25/2024

Subject: FPID 447157-1, McIntosh Road

Description Pond Sizing Calculations

Basin: Basins 1 & 7

ATTENUATION CALCULATIONS (CONT.)

Post-development Conditions

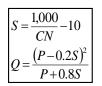
	R/W Area	Pond Area	
	13.58 ac	2.58 ac	16.16 ac
Total Area to be attenuated for			
Roadway and other impervious areas			5.79 ac
Open Space Composite			9.00 ac
Water			1.37 ac

CN Calculations

Soil Types (provide)	Ona Fine Sand and St. Johns Fine Sand	Myakka Fine Sand	Seffner Fine Sand	
Open Space type (choose)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	
<u>HSG (choose)</u>	B/D	A/D	Α	
<u>Station Limits</u>	0+19 to 3+23; 2+02 to 3+13; 18+82 to 21+72; 23+28 to 26+17	3+23 to 7+70; 3+13 to 4+52; 10+06 to 12+43; 16+17 to 18+82; 21+72 to 23+28	7+70 to 10+06; 38+04 to 50+65	
<u>Length</u>	994	2431	1497	<u>Composite</u>
Percentage Basin (provide)	20%	49%	30%	Open Space CN
<u>CN</u>	80	80	39	67.5

CN Calculations	<u>Area</u>	<u>CN</u>	Weighted CN
Roadway and other impervious areas	5.79 ac	98.00	33.48
Open Space	9.00 ac	67.5	35.82
Water	1.37 ac	100.00	8.08
		$CN_{post} =$	77.38

SCS Method for Attenuation Volume:



 $S_{post} = 2.92 \text{ in.}$ $Q_{post} = 4.95 \text{ in.}$ Post-development runoff volume = 6.67 ac-ft

Attenuation volume required (Post-Pre)

0.47 ac-ft

POND SIZE ESTIMATE

Approx. low edge of pavement elevation (LEOP)= 56.40
Approx. hydraulic clearance from LEOP = 1.00 ft
Approx. Normal Control Elevation (wet) = 54.25
Seasonal High Ground Water Elevation (SHGWT)= 54.10
SHGWT Check for Dry Retention Only
N/A

Tailwater Elevation (TW) = 53.84

Low EOP Basin 1 Sta 17+19.68 Standard hydraulic gradient clearance

Based on average SHWT elevation in borings

25yr TW (Node 389719 HCSWMM)

Treatment Volume Required

0.48 ac-ft

Attenuation Volume Required

0.47 ac-ft

Stage-Area Table

7.1.30 7.1.50 1.00.15						
Dand Components	<u>Stage</u>	<u>Area</u>	Delta Storage	Sum Storage	<u>Check</u>	
Pond Components	(ft)	(ac)	(ac-ft)	(ac-ft)	<u>On</u>	<u>eck</u>
Pond R/W Area	-	2.58	1	-		
Outside Berm	57.11	2.06	1.81	4.52	7288 cy	
Inside Edge of Maintenance Berm	56.11	1.55	1.50	2.71		
Design High Water	55.11	1.45	0.71	1.21	Meets Treat 8	Atten Vol Req
Treatment Weir	54.61	1.40	0.50	0.50	Meets Tre	at Vol Req
Normal Control Level	54.25	1.37	0.00			
Pond bottom	52.25	1.19	2.56		11419 cy	total excavation

Pond Characteristics

1:4 Slopes from Back of Maintenance Berm to Existing Ground

20-foot Maintenance Berm at 1:20 Slope

1:4 Slopes from Inside of Maintenance Berm to Normal Control Level Treatment Type: Wet Detention

Tie down Fill Calculation

He down Fill Calculation			
Low ground elevation	54		
High ground elevation	56		
average ground elevation	55		
Berm length (from CADD)	1155		
Tie down triangular area	8.90		
Total tie down fill	10284.35		
Cubic yards	381		

Pond_Sizing_Calcs.xlsx/SMF 1&7-1 7/25/2024 11:04 AM

Designed By: J. Rehrl Date: 7/25/2024 Checked By: C. Conner Date: 7/25/2024

Subject: FPID 447157-1, McIntosh Road **Description** Pond Sizing Calculations

Basin: Basins 1 & 7
SMF Name: SMF 1&7-2

	<u>Pre Basin 1</u>	<u>Pre Basin 7</u>	<u>Total Pre</u>	<u>Post Basin 1</u>	<u>Post Basin 7</u>	Total Post
Centerline	McIntosh	US 92				
From Station	0+19	16+17		0+19	16+17	
To Station	12+43	50+65		12+43	50+65	
Basin Length	1224.00 ft	3448.00 ft		1224.00 ft	3448.00 ft	
Total Area	3.87 ac	10.51 ac	14.38 ac	3.87 ac	7.13 ac	11.00 ac

Basin 1 Pre-developme				
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes	2	12	1224	0.67
Shoulders	0	0	0	0.00
Sidewalks/Shared Used Paths	1	5	365	0.04 Existing sidewalk begins at Sta 8+78
Driveways & Other Impervious Areas	-	-	-	0.07 Estimated at 10% of total

Total Impervious Basin 1 Pre: 0.79 ac

Basin 7 Pre-development Im	pervious Areas			
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes	1	12	3448	0.95
Shoulders	1	5	3448	0.40
Sidewalks/Shared Used Paths	0	0	0	0.00
Driveways & Other Impervious Areas	-	-	-	0.13 Estimated at 10% of total

Total Impervious Basin 7 Pre: 1.48 ac Total Impervious Basins 1 & 7 Pre:

Basin 1 Post-developm	ent Impervious Areas			
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes and Curb	4	13.25	1224	1.49 11-ft lanes with type F curb and type E curb
Shoulders	2	3	1224	0.17
Sidewalks/Shared Used Paths	2	10	1224	0.56
Driveways & Other Impervious Areas	-	-	-	0.22 Estimated at 10% of total

Total Impervious Basin 1 Post: 2.44 ac

Basin 7 Post-developme				
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes and Curb	2	14.25	3448	2.26 12-ft lanes with type F curb and type E curb
Shoulders	0	0	0	0.00
Sidewalks/Shared Used Paths	1	10	3448	0.79
Driveways & Other Impervious Areas	-	-	-	0.30 Estimated at 10% of total

Total Impervious Basin 7 Post: 3.35 ac Total Impervious Basins 1 and 7 Post: 5.79 ac

TREATMENT CALCULATIONS

Treatment Type (choose) Runoff Treatment Area to be Treated (choose)

Wet Detention
1.00 in.
Total Imp. Area

Total Imp. Area	Add'I DCIA	Collected DCIA	Total R/W
5.79 ac	3.53 ac	5.79 ac	13.58 ac

2.27 ac

Treatment Volume required

Treatment Volume from existing sources (treatment types must match)*

Total Treatment volume required

0.48 ac-ft 0.00 ac-ft 0.48 ac-ft

Pond_Sizing_Calcs.xlsx/SMF 1&7-2 7/25/2024 11:04 AM

^{*}Due to the widening of US 92 occurring to the south side, the entire existing road will drain to one side of the normal crown. Therefore, some of the area currently flowing to Basin 7 in the existing condition will be going to Basin 2.

 $[\]ensuremath{^{\star}} \text{referenced}$ from Existing Treatment and Storage Summary. 0.00 ac-ft if not applicable

Designed By: J. Rehrl

Date: 7/25/2024

Checked By: C. Conner

Date: 7/25/2024

Subject: FPID 447157-1, McIntosh Road

Description Pond Sizing Calculations

Basin: Basins 1 & 7

ATTENUATION CALCULATIONS

	Wet Detention
Will attenuation be necessary? (choose)	Yes
	SWFWMD Rainfall
Precipitation Source	Map Contours
Frequency (choose)	25-yr
Time (choose)	24-hr
Precipitation Depth	7.6 in.

Pre-development Conditions

	R/W Area	<u>Pond Area</u>	<u>I otal Area</u>
	14.38 ac	2.58 ac	16.96 ac
Total Area to be attenuated for (choose)			
Roadway and other impervious areas			2.27 ac
Open Space			14.69 ac

CN Calculations

Soil Types (provide)	Ona Fine Sand and St. Johns Fine Sand	Myakka Fine Sand	Seffner Fine Sand	
Open Space type (choose)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	
<u>HSG (choose)</u>	B/D	A/D	Α	
<u>Station Limits</u>	0+19 to 3+23; 9+77 to 10+99; 18+82 to 21+72; 23+28 to 26+17	3+23 to 7+70; 10+06 to 12+43; 16+17 to 18+82; 21+72 to 23+28 26+17 to 38+04	7+70 to 10+06; 10+99 to 14+67 38+04 to 50+65	
<u>Length</u>	1005	2292	1865	<u>Composite</u>
Percentage Basin (based on length) (provide)	19%	44%	36%	Open Space CN
<u>CN</u>	80	80	39	65.2

	<u>Area</u>	<u>CN</u>	<u>Weighted CN</u>
Roadway and other impervious areas	2.27 ac	98.00	13.11
Open Space	14.69 ac	65.2	56.47
		CN _{pre} =	69.58

SCS Method for Attenuation Volume:

$S = \frac{1,000}{CN} - 10$	$S_{pre} =$	4.37 in.
$\left \begin{array}{c} (P-0.2S)^2 \end{array}\right $	$\mathbf{Q}_{pre} =$	4.08 in.
$Q = \frac{(P - 0.2S)}{P + 0.8S}$	Pre-development runoff volume =	5.76 ac-ft

Pond_Sizing_Calcs.xlsx/SMF 1&7-2

Designed By: J. Rehrl

Date: 7/25/2024

Checked By: C. Conner

Date: 7/25/2024

Subject: FPID 447157-1, McIntosh Road

Description Pond Sizing Calculations

Basin: Basins 1 & 7

ATTENUATION CALCULATIONS (CONT.)

Post-development Conditions

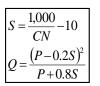
·	R/W Area	Pond Area	
	13.58 ac	2.58 ac	16.16 ac
Total Area to be attenuated for			
Roadway and other impervious areas			5.79 ac
Open Space Composite			9.07 ac
Water			1.30 ac

CN Calculations

Soil Types (provide)	Ona Fine Sand and St. Johns Fine Sand	Myakka Fine Sand	Seffner Fine Sand	
Open Space type (choose)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	
<u>HSG (choose)</u>	B/D	A/D	Α	
<u>Station Limits</u>	0+19 to 3+23; 9+77 to 10+99; 18+82 to 21+72; 23+28 to 26+17	3+23 to 7+70; 10+06 to 12+43; 16+17 to 18+82; 21+72 to 23+28 26+17 to 38+04	7+70 to 10+06; 10+99 to 14+67 38+04 to 50+65	
<u>Length</u>	1012	2292	1883	<u>Composite</u>
Percentage Basin (based on length) (provide)	20%	44%	36%	Open Space CN
<u>CN</u>	80	80	39	65.1

CN Calculations	<u>Area</u>	<u>CN</u>	Weighted CN
Roadway and other impervious areas	5.79 ac	98.00	33.48
Open Space	9.07 ac	65.1	34.81
Water	1.30 ac	100.00	7.67
	·	CN	75.05

SCS Method for Attenuation Volume:



 $S_{post} = 3.17 \text{ in.}$ $Q_{post} = 4.79 \text{ in.}$ Post-development runoff volume = 6.45 ac-ft

Attenuation volume required (Post-Pre)

0.69 ac-ft

POND SIZE ESTIMATE

Approx. low edge of pavement elevation (LEOP)= 56.40
Approx. hydraulic clearance from LEOP = 1.00 ft
Approx. Normal Control Elevation (wet) = 54.06
Seasonal High Ground Water Elevation (SHGWT)= 54.20
SHGWT Check for Dry Retention Only
N/A

Tailwater Elevation (TW) = 52.62

Low EOP Basin 1 Sta 17+19.68
Standard hydraulic gradient clearance
Based on average SHWT elevation in borings

50yr TW (Node 389716 HCSWMM)

Treatment Volume Required

0.48 ac-ft

Attenuation Volume Required

0.69 ac-ft

Stage-Area Table

7.1.go 7.1.ou 1.1.0.0						
Pond Components	<u>Stage</u> (ft)	Area (ac)	<u>Delta Storage</u> (ac-ft)	Sum Storage (ac-ft)	<u>Ch</u>	<u>eck</u>
Pond R/W Area	-	2.58	-	-		
Outside Berm	57.10	2.06	1.79	4.65	7509 cy	
Inside Edge of Maintenance Berm	56.10	1.51	1.46	2.87	•	
Design High Water	55.10	1.41	0.69	1.41	Meets Treat 8	Atten Vol Req
Treatment Weir	54.60	1.36	0.72	0.72	Meets Tre	eat Vol Req
Normal Control Level	54.06	1.30	0.00			
Pond Bottom	52.06	1.11	2.41		11397 cy	total excavation

Pond Characteristics

1:4 Slopes from Back of Maintenance Berm to Existing Ground

20-foot Maintenance Berm at 1:20 Slope

1:4 Slopes from Inside of Maintenance Berm to Normal Control Level Treatment Type: Wet Detention

Tie down Fill Calculation

Tie down Fill Calculation			
Low ground elevation	53		
High ground elevation	57		
average ground elevation	55		
Berm length (from CADD)	1237		
Tie down triangular area	8.82		
Total tie down fill	10910.34		
Cubic yards	404		

Pond_Sizing_Calcs.xlsx/SMF 1&7-2 7/25/2024 11:04 AM

Patel, Greene & Associates, LLC

From Station

Basin Length

To Station

Total Area

FPID 447157-1, McIntosh Road Subject: Pond Sizing Calculations Description Basin: Basin 2 SMF Name: SMF 2-1

Designed By: J. Rehrl Date: 7/25/2024 Checked By: C. Conner 7/25/2024 Date:

Pre Basin

US 92 & McIntosh BLs 16+20 & 12+43 50+65 & 25+07 US 92 & McIntosh BLs 4669.00 ft 8.41 ac

Post Basin 16+20 & 12+43 50+65 & 25+07

US 92 & McIntosh BLs US 92 & McIntosh BLs

4669.00 ft 11.79 ac

Basin 2 Pre-develop	ment Impervious Areas			
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes (US 92)	1	12	3406	0.94
Roadway Lanes (McIntosh)	2	12	1263	0.70
Shoulders	0	0	0	0.00
Sidewalks/Shared Used Paths	1	5	4669	0.54
Driveways & Other Impervious Areas	-	-	-	0.22 Estimated at 10% of total

Total Impervious Basin 2 Pre: 2.39 ac

Basin 2 Post-develo				
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes and Curb (US 92)	2	14.25	3406	2.23 11-ft lanes with type F curb and type E curb
Roadway Lanes and Curb (McIntosh)	4	13.25	1263	1.54 11-ft lanes with type F curb and type E curb
Shoulders (McIntosh)	2	3	1263	0.17
Sidewalks/Shared Used Paths	3	10	4669	3.22
Driveways & Other Impervious Areas	-	-	-	0.72 Estimated at 10% of total

*Due to the widening of US 92 occurring to the south side, the entire existing road will drain to one side of the normal crown. Therefore, some of the area currently flowing to Basin 7 in the existing condition will be going to Basin 2.

Total Impervious Basin 2 Post:

TREATMENT CALCULATIONS

Treatment Type (choose) Runoff Treatment Area to be Treated (choose)

Wet Detention 1.00 in. Total Imp. Area

Total Imp. Area	Add'I DCIA	Collected DCIA	Total R/W
7.87 ac	5.48 ac	7.87 ac	11.79 ac

7.87 ac

Treatment Volume required

Treatment Volume from existing sources (treatment types must match)*

Total Treatment volume required

*referenced from Existing Treatment and Storage Summary. 0.00 ac-ft if not applicable

0.66 ac-ft 0.00 ac-ft 0.66 ac-ft

Pond_Sizing_Calcs.xlsx/SMF 2-1 7/25/2024 11:04 AM

Patel, Greene & Associates, LLC

Subject:FPID 447157-1, McIntosh RoadDescriptionPond Sizing CalculationsBasin:Basin 2

Designed By: J. Rehrl
Date: 7/25/2024
Checked By: C. Conner
Date: 7/25/2024

ATTENUATION CALCULATIONS

Wet Detention

Will attenuation be necessary? (choose)

Yes

SWFWMD Rainfall

Precipitation Source

Frequency (choose)

Time (choose)

Precipitation Depth

Wet Detention

Yes

SWFWMD Rainfall

Map Contours

25-yr

24-hr

7.6 in.

Pre-development Conditions

	R/W Area	<u>Pond Area</u>	<u>i otal Area</u>
	8.41 ac	3.13 ac	11.54 ac
Total Area to be attenuated for (choose)			
Roadway and other impervious areas			2.39 ac
Open Space			9.15 ac

CN Calculations

		Myakka Fine Sand			
Soil Types (provide)	St. Johns Fine Sand	Bassinger Fine Sand	Seffner Fine Sand	Seffner Fine Sand	
Open Space type (choose)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	
<u>HSG (choose)</u>	A/D	B/D	C/D	Α	
Station Limits	16+60 to 24+18; 21+72 to 24+73 26+20 to 38+03; 12+45 to 18+45;	24+18 to 26+20; 20+24 to 21+72 18+45 to 19+87	19+87 to 22+05	38+03 to 50+66	
<u>Length</u>	3145	488	218	1263	Composite Open
Percentage Basin (based on length) (provide)	61%	10%	4%	25%	<u>Space CN</u>
<u>CN</u>	80	80	80	39	69.8

	<u>Area</u>	<u>CN</u>	<u>Weighted CN</u>
Roadway and other impervious areas	2.39 ac	98	20.27
Open Space	9.15 ac	69.8	55.38
		$CN_{pre} =$	75.65

SCS Method for Attenuation Volume:

$S = \frac{1,000}{CN} - 10$	S _{pre} =	3.22 in.
	$Q_{pre} =$	4.76 in.
$Q = \frac{(P - 0.2S)^2}{P + 0.8S}$	Pre-development runoff volume =	4.57 ac-ft

Pond_Sizing_Calcs.xlsx/SMF 2-1 7/25/2024 11:04 AM

Subject:

FPID 447157-1, McIntosh Road
Pond Sizing Calculations

DescriptionPond SizeBasin:Basin 2

ATTENUATION CALCULATIONS (CONT.)

Post-development Conditions

	R/W Area	Pond Area	
	11.79 ac	3.13 ac	14.92 ac
Total Area to be attenuated for			
Roadway and other impervious areas			7.87 ac
Open Space Composite			5.71 ac
Water			1.34 ac

CN Calculations

Soil Types (provide)	Basinger, Holopaw, and Samsula soils, depressional; Myakka fine sand	Immokalee and St Johns fine sands	Paisley fine sand, depressional	Seffner Fine Sand	
Open Space type (choose)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	
<u>HSG (choose)</u>	A/D	B/D	C/D	Α	
Station Limits	16+60 to 24+18; 21+72 to 24+73 26+20 to 38+03;	24+18 to 26+20; 20+24 to 21+72 18+45 to 19+87	19+87 to 22+05	38+03 to 50+66	
<u>Station Limits</u> <u>Length</u>	12+45 to 18+45; 3145	492	218	1263	Composite Open
Percentage Basin (based on length) (provide)	61%	10%	4%	25%	Space CN
CN	80	80	80	39	69.9

CN Calculations	<u>Area</u>	<u>CN</u>	<u>Weighted CN</u>
Roadway and other impervious areas	7.87 ac	98	51.69
Open Space	5.71 ac	69.9	26.74
Water	1.34 ac	100	8.98
		CN _{post} =	87.42

SCS Method for Attenuation Volume:

 $S = \frac{1,000}{CN} - 10$ $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

 $S_{post} = \qquad \qquad 1.44 \text{ in.}$ $Q_{post} = \qquad \qquad 6.11 \text{ in.}$ $Post-development runoff volume = \qquad \qquad \textbf{7.60 ac-ft}$

Attenuation volume required (Post-Pre)

3.02 ac-ft

Designed By:

Checked By:

Date:

Date:

J. Rehrl 7/25/2024

C. Conner 7/25/2024

POND SIZE ESTIMATE

Approx. low edge of pavement elevation (LEOP)= 57.55

Approx. hydraulic clearance from LEOP = 1.00 ft

Approx. Normal Control Elevation (wet) = 52.51

Seasonal High Ground Water Elevation (SHGWT)= 55.10

SHGWT Check for Dry Retention Only N/A

Tailwater Elevation (TW) = 51.13

Low EOP Basin 2B Sta 22+13 McIntosh Standard hydraulic gradient clearance

Based on average SHWT elevation in borings

25yr TW (Node 379734 HCSWMM)

Treatment Volume Required

0.66 ac-ft

Attenuation Volume Required

3.02 ac-ft

Stage-Area Table

Stage-Area rable						
Dond Components	<u>Stage</u>	<u>Area</u>	Delta Storage	Sum Storage	<u>Check</u>	
Pond Components	(ft)	(ac)	(ac-ft)	(ac-ft)		
Pond R/W Area	-	3.13	-	-		
Outside Berm	57.50	2.51	2.18	8.51	13729 cy	
Inside Edge of Maintenance Berm	56.50	1.84	1.78	6.33		
Design High Water	55.50	1.71	0.84	4.56	Meets Treat & Atten Vol Req	
Treatment Weir	55.00	1.65	3.72	3.72	Meets Treat Vol Req	
Normal Control Level	52.51	1.34	0.00			
Pond Bottom	50.51	1.11	2.45		29445 cy	total excavation
Liner Bottom	44.00	1.13	7.29		_	

Pond Characteristics

1:4 Slopes from Back of Maintenance Berm to Existing Ground

20-foot Maintenance Berm at 1:20 Slope

1:4 Slopes from Inside of Maintenance Berm to Normal Control Level

Treatment Type: Wet Detention

Tie down Fill Calculation

Laurana da lauratia a			
Low ground elevation	55		
High ground elevation	56.5		
average ground elevation	55.75		
Berm length (from CADD)	1497		
Tie down triangular area	6.13		
Total tie down fill	9169.13		
Cubic yards	340		

Pond_Sizing_Calcs.xlsx/SMF 2-1 7/25/2024 11:04 AM

Patel, Greene & Associates, LLC

Subject:FPID 447157-1, McIntosh RoadDescriptionPond Sizing CalculationsBasin:Basins 2SMF Name:SMF 2-2

Designed By: J. Rehrl

Date: 7/25/2024

Checked By: C. Conner

Date: 7/25/2024

<u>Pre Basin</u>

16+20 & 12+45 From Station 16+60 & 12+45 US 92 & McIntosh BLs US 92 & McIntosh BLs To Station 50+66 & 25+07 US 92 & McIntosh BLs 50+66 & 25+07 US 92 & McIntosh BLs Basin Length 4669.00 ft 4669.00 ft Total Area 8.41 ac 11.77 ac

Basin 2 Pre-development Impervious Areas Width (ft) Туре Number Sub-Total (ac) Length (ft) 3406 Roadway Lanes (US 92) 0.94 12 Roadway Lanes (McIntosh) 12 2 1263 0.70 Shoulders 0.00 0 0 0 Sidewalks/Shared Used Paths 1 5 4669 0.54 0.22 Estimated at 10% of total Driveways & Other Impervious Areas

Total Impervious Basin 2 Pre: 2.39 ac

Post Basin

Basin 2 Post-develop				
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes and Curb (US 92)	2	14.25	3406	2.23 11-ft lanes with type F curb and type E curb
Roadway Lanes and Curb (McIntosh)	4	13.25	1263	1.54 11-ft lanes with type F curb and type E curb
Shoulders (McIntosh)	2	3	1263	0.17
Sidewalks/Shared Used Paths	3	10	4669	3.22
Driveways & Other Impervious Areas	-	-	-	0.72 Estimated at 10% of total

*Due to the widening of US 92 occurring to the south side, the entire existing road will drain to one side of the normal crown. Therefore, some of the area currently flowing to Basin 7 in the existing condition will be going to Basin 2.

Total Impervious Basin 2 Post:

TREATMENT CALCULATIONS

Treatment Type (choose)
Runoff Treatment
Area to be Treated (choose)

Wet Detention
1.00 in.
Total Imp. Area

 Total Imp. Area
 Add'l DCIA
 Collected DCIA
 Total R/W

 7.87 ac
 5.48 ac
 7.87 ac
 11.77 ac

7.87 ac

Treatment Volume required

Treatment Volume from existing sources (treatment types must match)*

Total Treatment volume required

*referenced from Existing Treatment and Storage Summary. 0.00 ac-ft if not applicable

0.66 ac-ft	
0.00 ac-ft	
0.66 ac-ft	

Pond_Sizing_Calcs.xlsx/SMF 2-2 7/25/2024 11:04 AM

Patel, Greene & Associates, LLC

Subject:FPID 447157-1, McIntosh RoadDescriptionPond Sizing CalculationsBasin:Basins 2

Designed By: J. Rehrl

Date: 7/25/2024

Checked By: C. Conner

Date: 7/25/2024

ATTENUATION CALCULATIONS

	wet Detention
Will attenuation be necessary? (choose)	Yes
	SWFWMD Rainfall
Precipitation Source	Map Contours
Frequency (choose)	25-yr
Time (choose)	24-hr
Precipitation Depth	7.6 in.

Pre-development Conditions

	R/W Area	Pond Area	<u>Lotal Area</u>
	8.41 ac	2.51 ac	10.92 ac
Total Area to be attenuated for (choose)			
Roadway and other impervious areas			2.39 ac
Open Space			8.53 ac

CN Calculations

Soil Types (provide)	St. Johns Fine Sand	Myakka Fine Sand Bassinger Fine Sand	Seffner Fine Sand	Seffner Fine Sand	
7				Open Space (Good >75%)	
HSG (choose)	A/D	B/D	C/D	Α	
Station Limits	16+60 to 24+18; 23+68 to 26+29; 26+20 to 38+03; 12+45 to 18+45; 22+05 to 25+07	24+18 to 26+20; 18+45 to 19+87	19+87 to 22+05	38+03 to 50+66	
<u>Length</u>	3406	488	218	1263	Composite Open
Percentage Basin (based on length) (provide)	63%	9%	4%	23%	<u>Space CN</u>
<u>CN</u>	80	80	80	39	70.3

	<u>Area</u>	<u>CN</u>	<u>Weighted CN</u>
Roadway and other impervious areas	2.39 ac	98	21.42
Open Space	8.53 ac	70.3	54.94
		CN _{pre} =	76.37

SCS Method for Attenuation Volume:

$S = \frac{1,000}{CN} - 10$	S _{pre} =	3.09 in.
$(P-0.2S)^2$	Q_{pre} =	4.84 in.
$Q = \frac{(P - 0.2S)}{P + 0.8S}$	Pre-development runoff volume =	4.40 ac-ft

Pond_Sizing_Calcs.xlsx/SMF 2-2 7/25/2024 11:04 AM

Subject:

Description

FPID 447157-1, McIntosh Road Pond Sizing Calculations Basins 2

Basin:

ATTENUATION CALCULATIONS (CONT.)

Post-development Conditions

	R/W Area	Pond Area	
	11.77 ac	2.51 ac	14.28 ac
Total Area to be attenuated for			
Roadway and other impervious areas			7.87 ac
Open Space Composite			5.40 ac
Water			1.01 ac

CN Calculations

Soil Types (provide)	Basinger, Holopaw, and Samsula soils, depressional; Myakka fine sand	Immokalee and St Johns fine sands	Paisley fine sand, depressional	Seffner Fine Sand	
Open Space type (choose)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	
HSG (choose)	A/D	B/D	C/D	Α	
Station Limits	16+60 to 24+18; 23+68 to 26+29; 26+20 to 38+03; 12+45 to 18+45; 22+05 to 25+07	24+18 to 26+20; 18+45 to 19+87	19+87 to 22+05	38+03 to 50+66	
<u>Length</u>	3406	488	218	1263	Composite Open
Percentage Basin (based on length) (provide)	63%	9%	4%	23%	Space CN
CN	80	80	80	39	70.3

CN Calculations	<u>Area</u>	<u>CN</u>	<u>Weighted CN</u>
Roadway and other impervious areas	7.87 ac	98	54.01
Open Space	5.40 ac	70.3	26.59
Water	1.01 ac	100	7.07
		CN _{post} =	87.67

SCS Method for Attenuation Volume:

CN $Q = \frac{(P - 0.2S)^2}{2}$ P + 0.8S

1.41 in. 6.14 in. Post-development runoff volume = 7.31 ac-ft

Attenuation volume required (Post-Pre)

2.90 ac-ft

Designed By:

Checked By:

Date:

Date:

J. Rehrl 7/25/2024

C. Conner

7/25/2024

POND SIZE ESTIMATE

Approx. low edge of pavement elevation (LEOP)= 57.55 Approx. hydraulic clearance from LEOP = 1.00 ft Approx. Normal Control Elevation (wet) = 52.91 Seasonal High Ground Water Elevation (SHGWT)= 55.90 SHGWT Check for Dry Retention Only N/A Tailwater Elevation (TW) = 54.72

Low EOP Basin 2B Sta 22+13 McIntos Standard hydraulic gradient clearance

Based on average SHWT elevation in borings

25yr TW (Node 378680 HCSWMM)

Treatment Volume Required 0.66 ac-ft Attenuation Volume Required 2.90 ac-ft

Stage-Area Table

Pond Components	<u>Stage</u> (ft)	<u>Area</u> (ac)	<u>Delta Storage</u> (ac-ft)	<u>Sum Storage</u> (ac-ft)	<u>Ch</u>	<u>eck</u>
Pond R/W Area	-	2.51	-	-		
Outside Berm	58.55	2.04	1.76	7.54	12164 cy	
Inside Edge of Maintenance Berm	57.55	1.48	1.43	5.78		•
Design High Water	56.55	1.38	0.68	4.35	Meets Treat 8	Atten Vol Req
Treatment Weir	56.05	1.33	3.67	3.67	Meets Tre	eat Vol Req
Normal Control Level	52.91	1.01	0.00			
Pond Bottom	50.91	0.82	1.83		24637 cy	total excavation
Liner Bottom	43.80	0.84	5.90			

Pond Characteristics

1:4 Slopes from Back of Maintenance Berm to Existing Ground

20-foot Maintenance Berm at 1:20 Slope

1:4 Slopes from Inside of Maintenance Berm to Normal Control Level Treatment Type: Wet Detention

Tie down Fill Calculation			
Low ground elevation	57		
High ground elevation	57.5		
average ground elevation	57.25		
Berm length (from CADD)	1200		
Tie down triangular area	3.38		
Total tie down fill	4056.00		
Cubic vards	150		

Pond_Sizing_Calcs.xlsx/SMF 2-2 7/25/2024 11:04 AM

Subject: FPID 447157-1, McIntosh Road Pond Sizing Calculations Description Basin: Basins 3 SMF Name: SMF 3-1

Designed By:	J. Rehrl
Date:	7/25/2024
Checked By:	C. Conner
Date:	7/25/2024

Post Basin I-4 Ramp C Post Basin I-4 Ramp B

	Dro Posin	<u>Pre Basın I-4 Ramp C</u>	Pre Basin I-4 Ramp C Pre Basin I-4 Ramp B		<u>Post Basın I-4 Ramp C</u>	<u>Post Basın I-4 Ramp B</u>
	<u>Pre Basin</u>	<u>(EB On)</u>	(EB Off)	<u>Post Basin</u>	<u>(EB On)</u>	(EB Off)
From Station	25+07	0+60	5+00	25+07	0+60	5+00
To Station	38+66	6+98	15+60	38+66	6+98	15+60
Basin Length	1359.00 ft	638.00 ft	1060.00 ft	1359.00 ft	638.00 ft	1060.00 ft
Total Area		8.75 ac			8.75 ac	
	Basin 3 Pre-development Impervio	ous Areas				

<u>Pre Basin I-4 Ramp C</u> <u>Pre Basin I-4 Ramp B</u>

Basin 3 Pre-develop	ment Impervious Areas			
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes (McIntosh)	2	12	1359	0.75
Roadway Lanes (Ramp C)	1	20	638	0.29
Roadway Lanes (Ramp B)	1	36.5	1060	0.89
Lane Gore Area	-	-	-	0.24 Estimated at 20% of total ramp areas
Sidewalks/Shared Used Paths	1	5	1359	0.16
Driveways & Other Impervious Areas	-	-	-	0.23 Estimated at 10% of total

Total Impervious Basin 3 Pre: 2.55 ac

Basin 3 Post-develo	oment Impervious Areas			
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes and Curb (McIntosh)	4	13.25	1359	1.65 11-ft lanes with type F curb and type E curb
Roadway Lanes (Ramp C)	2	12	638	0.35
Roadway Lanes (Ramp B)	3	12	1060	0.88
Lane Gore Area	-	-	-	0.25 Estimated at 20% of total ramp areas
Shoulders (McIntosh)	2	3	1359	0.19
Shoulders (Ramp C)	1	14	638	0.21 One 10-ft paved and one 4-ft paved shoulders
Shoulders (Ramp B)	1	14	1060	0.34 One 10-ft paved and one 4-ft paved shoulders
Sidewalks/Shared Used Paths	2	10	1359	0.62
Driveways & Other Impervious Areas	-	-	-	0.45 Estimated at 10% of total

Total Impervious Basin 3 Post: 4.93 ac

TREATMENT CALCULATIONS

Treatment Type (choose) Runoff Treatment Area to be Treated (choose)

Wet Detention
1.00 in.
Total Imp. Area

Total Imp. Area	Add'I DCIA	Collected DCIA	Total R/W
4.93 ac	2.38 ac	4.93 ac	8.75 ac

Treatment Volume required

Treatment Volume from existing sources (treatment types must match)*

Total Treatment volume required

0.41 ac-ft	
0.00 ac-ft	
0.41 ac-ft	

Reduced volume from 7-11 partial take

Pond_Sizing_Calcs.xlsx/SMF 3-1 7/25/2024 11:04 AM

^{*}referenced from Existing Treatment and Storage Summary. 0.00 ac-ft if not applicable

Subject:FPID 447157-1, McIntosh RoadDescriptionPond Sizing CalculationsBasin:Basins 3

 Designed By:
 J. Rehrl

 Date:
 7/25/2024

 Checked By:
 C. Conner

 Date:
 7/25/2024

ATTENUATION CALCULATIONS

	wet Detention
Will attenuation be necessary? (choose)	Yes
	SWFWMD Rainfall
Precipitation Source	Map Contours
Frequency (choose)	25-yr
Time (choose)	24-hr
Precipitation Depth	7.6 in.
	,

Pre-development Conditions

	R/W Area	Pond Area	Total Area
	8.75 ac	3.35 ac	12.10 ac
Total Area to be attenuated for (choose)			
Roadway and other impervious areas			2.55 ac
Open Space			9.55 ac

CN Calculations

		Myakka Fine Sand		
<u>Soil Types (provide)</u>	St. Johns Fine Sand	Bassinger Fine Sand	Seffner Fine Sand	
Open Space type (choose)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	
HSG (choose)	A/D	B/D	C/D	Composite Open
Station Limits	25+07 to 35+22; 5+00 to 15+60	2+20 to 6+98	35+22 to 38+66; 0+60 to 2+20	<u>Space CN</u>
<u>Length</u>	2075	478	504	
Percentage Basin (provide)	68%	16%	16%	
<u>CN</u>	80	80	80	80.0

	<u>Area</u>	<u>CN</u>	Weighted CN
Roadway and other impervious areas	2.55 ac	98	20.69
Open Space	9.55 ac	80.0	63.11
		$CN_{pre} =$	83.80

SCS Method for Attenuation Volume:

oo mamaa ra	Tritoria di Gritoria	
$S = \frac{1,000}{CN} - 10$	S _{pre} =	1.93 in.
$(P-0.2S)^2$	$Q_{pre} =$	5.69 in.
$Q = \frac{(1 - 0.25)}{P + 0.8S}$	Pre-development runoff volume =	5.74 ac-ft

Pond_Sizing_Calcs.xlsx/SMF 3-1 7/25/2024 11:04 AM

Subject: Description Basin: FPID 447157-1, McIntosh Road
Pond Sizing Calculations

Basins 3

Designed By: J. Rehrl Date: 7/25/2024 Checked By: C. Conner Date: 7/25/2024

ATTENUATION CALCULATIONS (CONT.)

Post-development Conditions

	R/W Area	Pond Area	
	8.75 ac	3.35 ac	12.10 ac
Total Area to be attenuated for			
Roadway and other impervious areas			4.93 ac
Open Space Composite			5.09 ac
Water			2.08 ac

CN Calculations

		Myakka Fine Sand		
Soil Types (provide)	St. Johns Fine Sand	Bassinger Fine Sand	Seffner Fine Sand	
Open Space type (choose)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	
HSG (choose)	A/D	B/D	C/D	Composite Open
	25+07 to 35+22;	2+20 to 6+98	35+22 to 38+66;	Space CN
Station Limits	5+00 to 15+60	2+20 10 6+96	0+60 to 2+20	
<u>Length</u>	2075	478	504	
Percentage Basin (provide)	68%	16%	16%	
<u>CN</u>	80	80	80	80.0

CN Calculations	<u>Area</u>	<u>CN</u>	Weighted CN
Roadway and other impervious areas	4.93 ac	98	39.94
Open Space	5.09 ac	80.0	33.64
Water	2.08 ac	100	17.19
		CN _{post} =	90.77

SCS Method for Attenuation Volume:



 $S_{post} = 1.02 \text{ in.}$ $Q_{post} = 6.50 \text{ in.}$

Post-development runoff volume =

Attenuation volume required (Post-Pre)

0.82 ac-ft

6.56 ac-ft

POND SIZE ESTIMATE

Approx. low edge of pavement elevation (LEOP)= 57.40
Approx. hydraulic clearance from LEOP = 1.00 ft
Approx. Normal Control Elevation (wet) = 55.69
Seasonal High Ground Water Elevation (SHGWT)= 56.20
SHGWT Check for Dry Retention Only
N/A
Tailwater Elevation (TW) = 54.82

Low EOP Basin 3 Sta 32+13.19 McIntosh Standard hydraulic gradient clearance

Based on average SHWT elevation in borings

25yr TW (Node 379745 HCSWMM)

Treatment Volume Required

0.41 ac-ft

Attenuation Volume Required

0.82 ac-ft

Stage-Area Table

Pond Components	<u>Stage</u> (ft)	Area (ac)	<u>Delta Storage</u> (ac-ft)	<u>Sum Storage</u> (ac-ft)	<u>Check</u>	
Pond R/W Area	-	3.35	-	-		
Outside Berm	58.40	2.91	2.60	6.32	10197 cy	
Inside Edge of Maintenance Berm	57.40	2.28	2.22	3.73		
Design High Water	56.40	2.16	1.07	1.51	Meets Treat & Atten Vol Req	
Treatment Weir	55.90	2.10	0.44	0.44	Meets Treat Vol Req	
Normal Control Level	55.69	2.08	0.00			
Pond Bottom	53.69	1.85	3.93		28510 cy	total excavation
Liner Bottom	49.70	1.87	7.42			

Pond Characteristics

1:4 Slopes from Back of Maintenance Berm to Existing Ground

20-foot Maintenance Berm at 1:20 Slope

1:4 Slopes from Inside of Maintenance Berm to Normal Control Level

Treatment Type: Wet Detention

Tie down Fill Calculation

The down i in Galediation			
Low ground elevation	57.5		
High ground elevation	58.5		
average ground elevation	58		
Berm length (from CADD)	1271		
Tie down triangular area	0.32		
Total tie down fill	406.72		
Cubic yards	15		

Pond_Sizing_Calcs.xlsx/SMF 3-1 7/25/2024 11:04 AM

Subject:FPID 447157-1, McIntosh RoadDescriptionPond Sizing CalculationsBasin:Basins 3SMF Name:SMF 3-2

Designed By:	J. Rehrl
Date:	7/25/2024
Checked By:	C. Conner
Date:	7/25/2024

	<u>Pre Basin</u>	<u>Pre Basin I-4 Ramp C</u> (EB On)	Pre Basin I-4 Ramp B (EB Off)	Post Basin	Post Basin I-4 Ramp C (EB On)	Post Basin I-4 Ramp B (EB Off)
From Station	25+07	0+60	5+00	25+07	0+60	5+00
To Station	38+66	6+98	15+60	38+66	6+98	15+60
Basin Length	1359.00 ft	638.00 ft	1060.00 ft	1359.00 ft	638.00 ft	1060.00 ft
Total Area		8.75 ac			8.75 ac	
	Basin 3 Pre-development Impervio	us Areas				

Basin 3 Pre-development Impervious Areas				
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes (McIntosh)	2	12	1359	0.75
Roadway Lanes (Ramp C)	1	20	638	0.29
Roadway Lanes (Ramp B)	1	36.5	1060	0.89
Lane Gore Area	-	-	-	0.24 Estimated at 20% of total ramp areas
Sidewalks/Shared Used Paths	1	5	1359	0.16
Driveways & Other Impervious Areas	-	-	-	0.23 Estimated at 10% of total

Total Impervious Basin 3 Pre: 2.55 ac

Basin 3 Post-develo	oment Impervious Areas			
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes and Curb (McIntosh)	4	13.25	1359	1.65 11-ft lanes with type F curb and type E curb
Roadway Lanes (Ramp C)	2	12	638	0.35
Roadway Lanes (Ramp B)	3	12	1060	0.88
Lane Gore Area	-	-	-	0.25 Estimated at 20% of total ramp areas
Shoulders (McIntosh)	2	3	1359	0.19
Shoulders (Ramp C)	1	14	638	0.21 One 10-ft paved and one 4-ft paved shoulder
Shoulders (Ramp B)	1	14	1060	0.34 One 10-ft paved and one 4-ft paved shoulder
Sidewalks/Shared Used Paths	2	10	1359	0.62
Driveways & Other Impervious Areas	-	-	-	0.45 Estimated at 10% of total

Total Impervious Basin 3 Post: 4.93 ac

TREATMENT CALCULATIONS

Treatment Type (choose)
Runoff Treatment
Area to be Treated (choose)

Wet Detention
1.00 in.
Total Imp. Area

100	Total Imp. Area	<u>Add'l DCIA</u>	Collected DCIA	Total R/W	
4.93 ac 2.38 ac 4.93 ac 8.75 ac	4.93 ac	2.38 ac	4.93 ac	8.75 ac	

Treatment Volume required

Treatment Volume from existing sources (treatment types must match)* Total Treatment volume required

0.41 ac-ft	
0.00 ac-ft	Reduced volume from 7-11 partial take
0.41 ac-ft	

Pond_Sizing_Calcs.xlsx/SMF 3-2 7/25/2024 11:04 AM

^{*}referenced from Existing Treatment and Storage Summary. 0.00 ac-ft if not applicable

 Designed By:
 J. Rehrl

 Date:
 7/25/2024

 Checked By:
 C. Conner

 Date:
 7/25/2024

Subject:FPID 447157-1, McIntosh RoadDescriptionPond Sizing CalculationsBasin:Basins 3

ATTENUATION CALCULATIONS

	Wet Detention
Will attenuation be necessary? (choose)	Yes
	SWFWMD Rainfall
Precipitation Source	Map Contours
Frequency (choose)	25-yr
Time (choose)	24-hr
Precipitation Depth	7.6 in.

Pre-development Conditions

	R/W Area	Pond Area	Total Area
	8.75 ac	3.27 ac	12.02 ac
Total Area to be attenuated for (choose)			
Roadway and other impervious areas			2.55 ac
Open Space			9.47 ac

CN Calculations

		Myakka Fine Sand		
Soil Types (provide)	St. Johns Fine Sand	Bassinger Fine Sand	Seffner Fine Sand	
Open Space type (choose)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	
HSG (choose)	A/D	B/D	C/D	Composite Open
Station Limits	25+07 to 35+22; 5+00 to 15+60	2+20 to 6+98	35+22 to 38+66; 0+60 to 2+20	<u>Space CN</u>
<u>Length</u>	2075	478	504	
Percentage Basin (provide)	68%	16%	16%	
<u>CN</u>	80	80	80	80.0

	<u>Area</u>	<u>CN</u>	<u>Weighted CN</u>
Roadway and other impervious areas	2.55 ac	98	20.83
Open Space	9.47 ac	80.0	63.00
	83.83		

SCS Method for Attenuation Volume:

$S = \frac{1,000}{CN} - 10$	
$Q = \frac{(P - 0.2S)^2}{P + 0.8S}$	

 $S_{pre} = \qquad \qquad 1.93 \text{ in.} \\ Q_{pre} = \qquad \qquad 5.69 \text{ in.} \\ \text{Pre-development runoff volume} = \qquad \qquad \textbf{5.70 ac-ft}$

Pond_Sizing_Calcs.xlsx/SMF 3-2 7/25/2024 11:04 AM

Subject: Description Basin:

FPID 447157-1, McIntosh Road Pond Sizing Calculations

Basins 3

Designed By: J. Rehrl 7/25/2024 Date: Checked By: C. Conner 7/25/2024 Date:

ATTENUATION CALCULATIONS (CONT.)

Post-development Conditions

	R/W Area	Pond Area	
	8.75 ac	3.27 ac	12.02 ac
Total Area to be attenuated for			
Roadway and other impervious areas			4.93 ac
Open Space Composite			5.33 ac
Water			1.76 ac

CN Calculations

		Myakka Fine Sand		
Soil Types (provide)	St. Johns Fine Sand	Bassinger Fine Sand	Seffner Fine Sand	
Open Space type (choose)	Open Space (Good >75%)	Open Space (Good >75%)	Open Space (Good >75%)	
<u>HSG (choose)</u>	A/D	B/D	C/D	Composite Open
	25+07 to 35+22;	2+20 to 6+98	35+22 to 38+66;	Space CN
Station Limits	5+00 to 15+60	2+20 10 0+90	0+60 to 2+20	
<u>Length</u>	2075	478	504	
Percentage Basin (provide)	68%	16%	16%	
<u>CN</u>	80	80	80	80.0

CN Calculations	<u>Area</u>	<u>CN</u>	Weighted CN
Roadway and other impervious areas	4.93 ac	98	40.21
Open Space	5.33 ac	80.0	35.46
Water	1.76 ac	100	14.64
		CN _{post} =	90.31

SCS Method for Attenuation Volume:



1.07 in. 6.45 in.

Post-development runoff volume = 6.46 ac-ft

Attenuation volume required (Post-Pre)

0.76 ac-ft

POND SIZE ESTIMATE

Approx. low edge of pavement elevation (LEOP)= 57.40 Approx. hydraulic clearance from LEOP = 1.00 ft Approx. Normal Control Elevation (wet) = 55.60 Seasonal High Ground Water Elevation (SHGWT)= 56.70 SHGWT Check for Dry Retention Only N/A Tailwater Elevation (TW) = 54.82

Low EOP Basin 3 Sta 32+13.19 McIntosh Standard hydraulic gradient clearance Based on average SHWT elevation in borings

25yr TW (Node 379745 HCSWMM)

Treatment Volume Required 0.41 ac-ft Attenuation Volume Required 0.76 ac-ft

Stage-Area Table

Pond Components	<u>Stage</u> (ft)	<u>Area</u> (ac)	<u>Delta Storage</u> (ac-ft)	<u>Sum Storage</u> (ac-ft)	<u>C</u>	neck
Pond R/W Area	-	3.27	-	-		
Outside Berm	58.40	2.55	2.26	5.60	9041 cy	
Inside Edge of Maintenance Berm	57.40	1.96	1.91	3.35		•
Design High Water	56.40	1.85	0.91	1.44	Meets Treat 8	& Atten Vol Req
Treatment Weir	55.90	1.79	0.53	0.53	Meets Tre	eat Vol Req
Normal Control Level	55.60	1.76	0.00			
Pond Bottom	53.60	1.55	3.31		24700 cy	total excavation
Liner Bottom	49.50	1.57	6.40			

Pond Characteristics

1:4 Slopes from Back of Maintenance Berm to Existing Ground

20-foot Maintenance Berm at 1:20 Slope

1:4 Slopes from Inside of Maintenance Berm to Normal Control Level

Treatment Type: Wet Detention

Tie down Fill Calculation

THE GOWTH FIII GAICUIATION			
Low ground elevation	58		
High ground elevation	59		
average ground elevation	58.5		
Berm length (from CADD)	1265		
Tie down triangular area	0.02		
Total tie down fill	25.30		
Cubic yards	1		

Pond_Sizing_Calcs.xlsx/SMF 3-2 7/25/2024 11:04 AM

Subject: Description FPID 447157-1, McIntosh Road Pond Sizing Calculations
Basins 5
SMF 5-1 Basin: SMF Name:

Designed By:	J. Rehrl
Date:	7/25/2024
Checked By:	C. Conner
Date:	7/25/2024

	<u>Pre Basin</u>	Pre Basin Muck Pond Road	Pre Basin Gore Road	Post Basin	Post Basin Muck Pond Road	Post Basin Gore Road
From Station	44+32	96+00	100+81	44+32	96+00	100+81
To Station	54+87	99+40	106+45	54+87	99+40	106+45
Basin Length	1055.00 ft	340.00 ft	564.00 ft	1055.00 ft	340.00 ft	564.00 ft
Total Area		4.71 ac			4.71 ac	;

Basin 3 Pre-developr				
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes (McIntosh)	2	12	1055	0.58
Roadway Lanes (Muck Pond Road)	2	10	340	0.16
Roadway Lanes (Gore Road)	3	10	564	0.39 Includes turn lanes
Sidewalks/Shared Used Paths	1	5	1055	0.12
Driveways & Other Impervious Areas	-	-	-	0.12 Estimated at 10% of total

Total Impervious Basin 5 Pre:	1.37 ac
-------------------------------	---------

Basin 3 Post-develop				
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes (McIntosh)	4	13.25	1055	1.28 11-ft lanes with type F curb and type E curb
Roadway Lanes (Muck Pond Road)	2	11	340	0.17
Roadway Lanes (Gore Road)	3	11	564	0.43
Shoulders (McIntosh)	2	3	1055	0.15
Sidewalks/Shared Used Paths	2	10	1055	0.48
Driveways & Other Impervious Areas	-	-	-	0.25 Estimated at 10% of total

Total Impervious Basin 5 Post: 2.76 ac

TREATMENT CALCULATIONS

Treatment Type (choose) Runoff Treatment Area to be Treated (choose)

Wet Detention		
1.00 in.		
Total Imp. Area		

Total Imp. Area	Add'I DCIA	Collected DCIA	Total R/W
2.76 ac	1.39 ac	2.76 ac	4.71 ac

0.23 ac-ft	
0.00 ac-ft	
0.23 ac-ft	
	-

Pond_Sizing_Calcs.xlsx/SMF 5-1 7/25/2024 11:04 AM

Treatment Volume required
Treatment Volume from existing sources (treatment types must match)*

Total Treatment volume required

^{*}referenced from Existing Treatment and Storage Summary. 0.00 ac-ft if not applicable

 Designed By:
 J. Rehrl

 Date:
 7/25/2024

 Checked By:
 C. Conner

 Date:
 7/25/2024

Subject:FPID 447157-1, McIntosh RoadDescriptionPond Sizing CalculationsBasin:Basins 5

ATTENUATION CALCULATIONS

	Wet Detention
Will attenuation be necessary? (choose)	Yes
	SWFWMD Rainfall
Precipitation Source	Map Contours
Frequency (choose)	25-yr
Time (choose)	24-hr
Precipitation Depth	7.6 in.

Pre-development Conditions

	R/W Area	Pond Area	Total Area
	4.71 ac	1.92 ac	6.63 ac
Total Area to be attenuated for (choose)			
Roadway and other impervious areas			1.37 ac
Open Space			5.26 ac

CN Calculations

Soil Types (provide)	Basinger, Holopaw & Samsula soils; Malabar & Myakka fine sands		
Open Space type (choose)	Open Space (Good >75%)		1
HSG (choose)	A/D		<u>Composite</u>
	44+32 to 54+87; 96+00 to 99+40;		Open Space CN
Station Limits	100+81 to 106+45		
<u>Length</u>	1959		
Percentage Basin (provide)	100%		
<u>CN</u>	80		80.0
	Aron	Weighted CN	

	<u>Area</u>	<u>CN</u>	Weighted CN
Roadway and other impervious areas	1.37 ac	98	20.27
Open Space	5.26 ac	80.0	63.45
	_	CN _{pre} =	83.72

SCS Method for Attenuation Volume:

$S = \frac{1,000}{CN} - 10$	$S_pre =$	1.94 in.
$Q = (P - 0.2S)^2$	Q _{pre} =	5.68 in.
$Q = \frac{(V - 0.2S)}{P + 0.8S}$	Pre-development runoff volume =	3.14 ac-ft

Pond_Sizing_Calcs.xlsx/SMF 5-1 7/25/2024 11:04 AM

Subject:

Basin:

Description

FPID 447157-1, McIntosh Road Pond Sizing Calculations

Basins 5

Designed By: J. Rehrl Date: 7/25/2024 Checked By: C. Conner 7/25/2024 Date:

ATTENUATION CALCULATIONS (CONT.)

Post-development Conditions

	R/W Area	Pond Area	
	4.71 ac	1.92 ac	6.63 ac
Total Area to be attenuated for			
Roadway and other impervious areas			2.76 ac
Open Space Composite			3.20 ac
Water			0.67 ac

CN Calculations

Soil Types (provide)	Basinger, Holopaw & Samsula soils; Malabar & Myakka fine sands		
Open Space type (choose)	Open Space (Good >75%)		
HSG (choose)	A/D		<u>Composite</u>
	44+32 to 54+87;		Open Space CN
	96+00 to 99+40;		
Station Limits	100+81 to 106+45		
<u>Length</u>	1959		
Percentage Basin (provide)	100%		
<u>CN</u>	80		80.0

CN Calculations	<u>Area</u>	<u>CN</u>	Weighted CN
Roadway and other impervious areas	2.76 ac	98	40.85
Open Space	3.20 ac	80.0	38.57
Water	0.67 ac	100	10.11
		$CN_{post} =$	89.52

SCS Method for Attenuation Volume:

1.17 in. CN Q_{post} = 6.36 in. $(P-0.2S)^2$ Post-development runoff volume = 3.51 ac-ft P + 0.8S

Attenuation volume required (Post-Pre)

Tailwater Elevation (TW) = 55.11

POND SIZE ESTIMATE

Approx. low edge of pavement elevation (LEOP)= 55.48 Approx. hydraulic clearance from LEOP = 1.00 ft Approx. Normal Control Elevation (wet) = 53.43 Seasonal High Ground Water Elevation (SHGWT)= 55.80 SHGWT Check for Dry Retention Only N/A

Low EOP Sta 47+04 Standard hydraulic gradient clearance

Based on average SHWT elevation in borings

Wetland to the west 25yr TW (Node 378305 HCSWMM)

0.37 ac-ft

Treatment Volume Required 0.23 ac-ft Attenuation Volume Required 0.37 ac-ft

Stage-Area Table

Stage-Area Table						
Pond Components	<u>Stage</u>	<u>Area</u>	Delta Storage	Sum Storage		Check
Fond Components	(ft)	(ac)	(ac-ft)	(ac-ft)		CHECK
Pond R/W Area	-	1.92	-	-		
Outside Berm	56.48	1.16	0.98	2.48	4001 cy	
Inside Edge of Maintenance Berm	55.48	0.80	0.77	1.50		
Design High Water	54.48	0.73	0.36	0.73	Meets Treat & Atten Vol Req	
Treatment Weir	53.98	0.70	0.38	0.38	Mee	ts Treat Vol Req
Normal Control Level	53.43	0.67	0.00			ow preventer due to high TW and
Normal Control Level	55.45	0.01	0.00		LEOP elevat	ion being almost the same
Pond Bottom	51.43	0.55	1.22		9846 cy	total excavation
Liner Bottom	47.10	0.56	2.40			

Pond Characteristics

1:4 Slopes from Back of Maintenance Berm to Existing Ground

20-foot Maintenance Berm at 1:20 Slope 1:4 Slopes from Inside of Maintenance Berm to Normal Control Level Treatment Type: Wet Detention

Tie down Fill Calculation

Low ground elevation	54		
High ground elevation	58		
average ground elevation	56		
Berm length (from CADD)	816		
Tie down triangular area	0.46		
Total tie down fill	375.87		
Cubic yards	13.92		

Pond_Sizing_Calcs.xlsx/SMF 5-1 7/25/2024 11:04 AM

Subject: Description FPID 447157-1, McIntosh Road Pond Sizing Calculations
Basins 5
SMF 5-2 Basin: SMF Name:

Designed By:	J. Rehrl
Date:	7/25/2024
Checked By:	C. Conner
Date:	7/25/2024

	<u>Pre Basin</u>	Pre Basin Muck Pond Road	Pre Basin Gore Road	<u>Post Basin</u>	Post Basin Muck Pond Road	Post Basin Gore Road
From Station	44+32	96+00	100+81	44+32	96+00	100+81
To Station	54+87	99+40	106+45	54+87	99+40	106+45
Basin Length	1055.00 ft	340.00 ft	564.00 ft	1055.00 ft	340.00 ft	564.00 ft
Total Area		4.71 ac			4.71 a	С

Basin 3 Pre-develop				
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes (McIntosh)	2	12	1055	0.58
Roadway Lanes (Muck Pond Road)	2	10	340	0.16
Roadway Lanes (Gore Road)	3	10	564	0.39 Includes turn lanes
Sidewalks/Shared Used Paths	1	5	1055	0.12
Driveways & Other Impervious Areas	-	-	-	0.12 Estimated at 10% of total

Total Impervious Basin 5 Pre: 1.37 ac

Basin 3 Post-develor	Basin 3 Post-development Impervious Areas			
Type Number Width (ft) Length (ft) S				Sub-Total (ac)
Roadway Lanes (McIntosh)	4	13.25	1055	1.28 11-ft lanes with type F curb and type E curl
Roadway Lanes (Muck Pond Road)	2	11	340	0.17
Roadway Lanes (Gore Road)	3	11	564	0.43
Shoulders (McIntosh)	2	3	1055	0.15
Sidewalks/Shared Used Paths	2	10	1055	0.48
Driveways & Other Impervious Areas	-	-	-	0.25 Estimated at 10% of total

Total Impervious Basin 5 Post: 2.76 ac

TREATMENT CALCULATIONS

Treatment Type (choose)
Runoff Treatment Area to be Treated (choose)

Wet Detention
1.00 in.
Total Imp. Area

Total Imp. Area	Add'I DCIA	Collected DCIA	Total R/W
2.76 ac	1.39 ac	2.76 ac	4.71 ac

0.23 ac-ft	
0.00 ac-ft	
0.23 ac-ft	

Pond_Sizing_Calcs.xlsx/SMF 5-2 7/25/2024 11:04 AM

Treatment Volume required
Treatment Volume from existing sources (treatment types must match)*

Total Treatment volume required

^{*}referenced from Existing Treatment and Storage Summary. 0.00 ac-ft if not applicable

Subject:FPID 447157-1, McIntosh RoadDescriptionPond Sizing CalculationsBasin:Basins 5

 Designed By:
 J. Rehrl

 Date:
 7/25/2024

 Checked By:
 C. Conner

 Date:
 7/25/2024

ATTENUATION CALCULATIONS

	Wet Detention
Will attenuation be necessary? (choose)	Yes
	SWFWMD Rainfall
Precipitation Source	Map Contours
Frequency (choose)	25-yr
Time (choose)	24-hr
Precipitation Depth	7.6 in.

Pre-development Conditions

·	R/W Area	Pond Area	Total Area
	4.71 ac	2.18 ac	6.89 ac
Total Area to be attenuated for (choose)			•
Roadway and other impervious areas			1.37 ac
Open Space			5.52 ac

CN Calculations

Soil Types (provide) Open Space type (choose) HSG (choose) Station Limits	Basinger, Holopaw & Samsula soils; Malabar & Myakka fine sands Open Space (Good >75%) A/D 44+32 to 54+87; 96+00 to 99+40; 100+81 to 106+45	<u>Composite</u> <u>Open Space CN</u>
<u>Length</u>	1959	1
Percentage Basin (provide)	100%	
<u>CN</u>	80	80.0

	<u>Area</u>	<u>CN</u>	Weighted CN
Roadway and other impervious areas	1.37 ac	98	19.51
Open Space	5.52 ac	80.0	64.07
		CN _{pre} =	83.58

SCS Method for Attenuation Volume:

ı	g 1,000 to		
	$S = \frac{1,000}{CN} - 10$	S _{pre} =	1.96 in.
	011	$Q_{pre} =$	5.66 in.
	$Q = \frac{(P - 0.2S)^2}{P - 0.0G}$	Pre-development runoff volume =	3.25 ac-ft
	P+0.8S	·	

Pond_Sizing_Calcs.xlsx/SMF 5-2 7/25/2024 11:04 AM

Subject:

FPID 447157-1, McIntosh Road Pond Sizing Calculations

Description Basin: Basins 5 Designed By: J. Rehrl Date: 7/25/2024 Checked By: C. Conner 7/25/2024 Date:

Post-development Conditions

ATTENUATION CALCULATIONS (CONT.)

•	R/W Area	Pond Area	
	4.71 ac	2.18 ac	6.89 ac
Total Area to be attenuated for			
Roadway and other impervious areas			2.76 ac
Open Space Composite			3.34 ac
Water			0.79 ac

CN Calculations

Soil Types (provide) Open Space type (choose)	Basinger, Holopaw & Samsula soils; Malabar & Myakka fine sands Open Space (Good >75%)		
HSG (choose)	A/D		<u>Composite</u>
Station Limits	44+32 to 54+87; 96+00 to 99+40; 100+81 to 106+45		Open Space CN
<u>Length</u>	1959		
Percentage Basin (provide)	100%	+	
_			
<u>CN</u>	80		80.0

CN Calculations	<u>Area</u>	<u>CN</u>	Weighted CN
Roadway and other impervious areas	2.76 ac	98	39.31
Open Space	3.34 ac	80.0	38.74
Water	0.79 ac	100	11.47
		$CN_{post} =$	89.51

SCS Method for Attenuation Volume:

CN $(P-0.2S)^2$ P + 0.8S

1.17 in. 6.35 in. Post-development runoff volume = 3.65 ac-ft

Attenuation volume required (Post-Pre)

0.40 ac-ft

POND SIZE ESTIMATE

Approx. low edge of pavement elevation (LEOP)= 55.48 Approx. hydraulic clearance from LEOP = 1.00 ft Approx. Normal Control Elevation (wet) = 53.57 Seasonal High Ground Water Elevation (SHGWT)= 55.90 SHGWT Check for Dry Retention Only N/A Tailwater Elevation (TW) = 55.11

Low EOP Sta 47+04 Standard hydraulic gradient clearance

Based on average SHWT elevation in borings

Wetland to the west 25yr TW (Node 378305 HCSWMM)

Treatment Volume Required 0.23 ac-ft Attenuation Volume Required 0.40 ac-ft

Stage-Area Table

Pond Components	<u>Stage</u> (ft)	<u>Area</u> (ac)	<u>Delta Storage</u> (ac-ft)	Sum Storage (ac-ft)		<u>Check</u>
Pond R/W Area	-	2.18	-	-		
Outside Berm	56.48	1.43	1.22	2.97	4796 cy	
Inside Edge of Maintenance Berm	55.48	1.01	0.97	1.75		
Design High Water	54.48	0.93	0.45	0.78	Meets Treat & Atten Vol Req	
Treatment Weir	53.98	0.85	0.34	0.34	Meets Treat Vol Req	
Normal Control Level	53.57	0.79	0.00		Will need a backflow preventer due to high TW and LEOP elevation being almost the same	
Pond Bottom	52.57	0.65	0.72		9307 cy	total excavation
Liner Bottom	49.40	0.66	2.08			

Pond Characteristics

1:4 Slopes from Back of Maintenance Berm to Existing Ground 20-foot Maintenance Berm at 1:20 Slope

1:4 Slopes from Inside of Maintenance Berm to Normal Control Level Treatment Type: Wet Detention

Tie down Fill Calculation

Low ground elevation	55		
High ground elevation	57.5		
average ground elevation	56.25		
Berm length (from CADD)	953		
Tie down triangular area	0.11		
Total tie down fill	100.83		
Cubic yards	4		

Pond_Sizing_Calcs.xlsx/SMF 5-2 7/25/2024 11:04 AM

Subject: FPID 447157-1, McIntosh Road Description Pond Sizing Calculations Basin: SMF 5-3 SMF Name:

Designed By:	J. Rehrl
Date:	7/25/2024
Checked By:	C. Conner
Date:	7/25/2024

	<u>Pre Basin</u>	<u>Pre Basin Muck Pond</u> <u>Road</u>	Pre Basin Gore Road	<u>Post Basin</u>	<u>Post Basin</u> <u>Muck Pond</u> <u>Road</u>	Post Basin Gore Road
From Station	44+32	96+00	100+81	44+32	96+00	100+81
To Station	54+87	99+40	106+45	54+87	99+40	106+45
Basin Length	1055.00 ft	340.00 ft	564.00 ft	1055.00 ft	340.00 ft	564.00 ft
Total Area		4.71 ac			4.71 a	С

Basin 3 Pre-develop				
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes (McIntosh)	2	12	1055	0.58
Roadway Lanes (Muck Pond Road)	2	10	340	0.16
Roadway Lanes (Gore Road)	3	10	564	0.39 Includes turn lanes
Sidewalks/Shared Used Paths	1	5	1055	0.12
Driveways & Other Impervious Areas	-	-	-	0.12 Estimated at 10% of total

Total Impervious Basin 5 Pre: 1.37 ac

Basin 3 Post-develop	ment Impervious Areas			
Туре	Number	Width (ft)	Length (ft)	Sub-Total (ac)
Roadway Lanes (McIntosh)	4	13.25	1055	1.28 11-ft lanes with type F curb and type E curb
Roadway Lanes (Muck Pond Road)	2	11	340	0.17
Roadway Lanes (Gore Road)	3	11	564	0.43
Shoulders (McIntosh)	2	3	1055	0.15
Sidewalks/Shared Used Paths	2	10	1055	0.48
Driveways & Other Impervious Areas	-	-	-	0.25 Estimated at 10% of total

Total Impervious Basin 5 Post: 2.76 ac

TREATMENT CALCULATIONS

Treatment Type (choose) Runoff Treatment Area to be Treated (choose)

100	<u>al Imp. Area</u>	<u>Add'l DCIA</u>	Collected DCIA	<u>Total R/W</u>
2.7	6 ac	1.39 ac	2.76 ac	4.71 ac

Treatment Volume required
Treatment Volume from existing sources (treatment types must match)*

Total Treatment volume required

0.23 ac-ft 0.00 ac-ft 0.23 ac-ft

Pond_Sizing_Calcs.xlsx/SMF 5-3 7/25/2024 11:04 AM

^{*}referenced from Existing Treatment and Storage Summary. 0.00 ac-ft if not applicable

 Designed By:
 J. Rehrl

 Date:
 7/25/2024

 Checked By:
 C. Conner

 Date:
 7/25/2024

Subject:FPID 447157-1, McIntosh RoadDescriptionPond Sizing CalculationsBasin:Basins 5

ATTENUATION CALCULATIONS

	Wet Detention
Will attenuation be necessary? (choose)	Yes
	SWFWMD Rainfall
Precipitation Source	Map Contours
Frequency (choose)	25-yr
Time (choose)	24-hr
Precipitation Depth	7.6 in.

Pre-development Conditions

	R/W Area	Pond Area	Total Area
	4.71 ac	1.56 ac	6.27 ac
Total Area to be attenuated for (choose)			
Roadway and other impervious areas			1.37 ac
Open Space			4.90 ac

CN Calculations

Soil Types (provide)	Basinger, Holopaw & Samsula soils; Malabar & Myakka fine sands	
Open Space type (choose)	Open Space (Good >75%)	
HSG (choose)	A/D	<u>Composite</u>
	44+32 to 54+87; 96+00 to 99+40;	Open Space CN
Station Limits	100+81 to 106+45	
<u>Length</u>	1959	
Percentage Basin (provide)	100%	
CN	80	80.0

	<u>Area</u>	<u>CN</u>	<u>Weighted CN</u>
Roadway and other impervious areas	1.37 ac	98	21.44
Open Space	4.90 ac	80.0	62.50
	_	CN _{pre} =	83.94

SCS Method for Attenuation Volume:

$S = \frac{1,000}{CN} - 10$	$S_{pre} = $	1.91 in.
$\left \begin{array}{c} (P-0.2S)^2 \end{array}\right $	$Q_{pre} = $	5.70 in.
$Q = \frac{(1 - 0.25)}{P + 0.85}$	Pre-development runoff volume = 2.	.98 ac-ft

Pond_Sizing_Calcs.xlsx/SMF 5-3 7/25/2024 11:04 AM

Subject:

Description Basin:

FPID 447157-1, McIntosh Road Pond Sizing Calculations

ATTENUATION CALCULATIONS (CONT.)

Post-development Conditions

	R/W Area	Pond Area	
	4.71 ac	1.56 ac	6.27 ac
Total Area to be attenuated for			
Roadway and other impervious areas			2.76 ac
Open Space Composite			2.96 ac
Water			0.55 ac

CN Calculations

Soil Types (provide) Open Space type (choose) HSG (choose)	Basinger, Holopaw & Samsula soils; Malabar & Myakka fine sands Open Space (Good >75%) A/D 44+32 to 54+87; 96+00 to 99+40; 100+81 to 106+45	<u>Composite</u> <u>Open Space CN</u>
Station Limits Length Percentage Basin (provide)	1959 100%	
<u>CN</u>	80	80.0

CN Calculations	<u>Area</u>	<u>CN</u>	Weighted CN
Roadway and other impervious areas	2.76 ac	98	43.19
Open Space	2.96 ac	80.0	37.72
Water	0.55 ac	100	8.77
		$CN_{post} =$	89.69

SCS Method for Attenuation Volume:

$S = \frac{1,000}{CN} - 10$	
$Q = \frac{(P - 0.2S)^2}{P + 0.8S}$	

1.15 in. 6.38 in. Post-development runoff volume = 3.33 ac-ft

Attenuation volume required (Post-Pre)

0.35 ac-ft

Designed By:

Checked By:

Date:

Date:

J. Rehrl

7/25/2024

C. Conner

7/25/2024

POND SIZE ESTIMATE

Approx. low edge of pavement elevation (LEOP)= 55.48 Approx. hydraulic clearance from LEOP = 1.00 ft Approx. Normal Control Elevation (wet) = 53.32 Seasonal High Ground Water Elevation (SHGWT)= 55.30 SHGWT Check for Dry Retention Only N/A Tailwater Elevation (TW) = 54.18

Low EOP Sta 47+04 Standard hydraulic gradient clearance

Based on average SHWT elevation in borings

Baker Creek 25yr TW (Node 340280 HCSWMM) (Pemberton Creek)

Treatment Volume Required 0.23 ac-ft Attenuation Volume Required 0.35 ac-ft

Stage-Area Table

Pond Components	<u>Stage</u> (ft)	<u>Area</u> (ac)	<u>Delta Storage</u> (ac-ft)	Sum Storage (ac-ft)		<u>Check</u>
Pond R/W Area	-	1.56	-	-		
Outside Berm	56.48	1.10	0.91	2.26	3645 cy	
Inside Edge of Maintenance Berm	55.48	0.71	0.67	1.35		
Design High Water	54.48	0.63	0.31	0.68	Meets Treat & Atten Vol Req	
Treatment Weir	53.98	0.60	0.38	0.38	Mee	ets Treat Vol Req
Normal Control Level	53.32	0.55	0.00		Will need a bac	kflow preventer due to high TW
Pond Bottom	51.32	0.43	0.98		8362 cy	total excavation
Liner Bottom	46.80	0.43	1.94		•	

Pond Characteristics

1:4 Slopes from Back of Maintenance Berm to Existing Ground 20-foot Maintenance Berm at 1:20 Slope

1:4 Slopes from Inside of Maintenance Berm to Normal Control Level Treatment Type: Wet Detention

Tie down Fill Calculation

Low ground elevation	56		
High ground elevation	57		
average ground elevation	56.5		
Berm length (from CADD)	731		
Tie down triangular area	0.00		
Total tie down fill	0.58		
Cubic yards	0		

Pond_Sizing_Calcs.xlsx/SMF 5-3 7/25/2024 11:04 AM



McIntosh Road - SMF 2-1 Liner Flotation Calculations

By: <u>J. Rehrl</u> Date: 5/22/2024 C'ked by: <u>C. Conner</u> Date: 5/22/2024

Calculations based on Square Foot of Liner.

Liner Crest =	56.50 ft
Pond Liner Elevation:	44.00 ft
Pond Bottom Elevation:	50.51 ft
Unit Weight of Water	62.4 pcf
Unit Weight of Saturated Sand:	125.0 pcf
Liner Depth Below Liner Crest =	12.50 ft
Minimum Saturated Sand Depth =	6.51 ft
Weight of Displaced Water = 62.4 lbs. / cu.ft. x (liner crest - liner bottom) x 1 s.f.	780.0 lbs
Weight of Saturated Sand = 125.0 lbs. / cu.ft. x (underdrain flow line - liner bottom) x 1 s.f.	813.8 lbs
Flotation Safety Factor = Total Weight of Sand / Weight of Displaced Water =	<u>1.04*</u>

Note: SHW elevation is below liner crest. If unusually high groundwater exceeds the top of the liner, the groundwater will flow into the pond to neutralize groundwater floatation effects on the liner. Calculation is for worst case.

- The sand and liner properties are specified in the plans
- The SHW used in the calculations is conservative
- The calculations assume completely dry soil above the liner during high groundwater conditions, which is unlikely to occur. It is more likely that the soil above the liner will be at least moist during times of high groundwater.

McIntosh Road - SMF 2-2 Liner Flotation Calculations

By: <u>J. Rehrl</u> Date: 5/22/2024 C'ked by: <u>C. Conner</u> Date: 5/22/2024

Calculations based on Square Foot of Liner.

Liner Crest =	57.55 ft
Pond Liner Elevation:	43.80 ft
Pond Bottom Elevation:	50.91 ft
Unit Weight of Water	62.4 pcf
Unit Weight of Saturated Sand:	125.0 pcf
Liner Depth Below Liner Crest =	13.75 ft
Minimum Saturated Sand Depth =	7.11 ft
Weight of Displaced Water = 62.4 lbs. / cu.ft. x (liner crest - liner bottom) x 1 s.f.	858.0 lbs
Weight of Saturated Sand = 125.0 lbs. / cu.ft. x (underdrain flow line - liner bottom) x 1 s.f.	888.8 lbs
Flotation Safety Factor = Total Weight of Sand / Weight of Displaced Water =	<u>1.04*</u>

Note: SHW elevation is below liner crest. If unusually high groundwater exceeds the top of the liner, the groundwater will flow into the pond to neutralize groundwater floatation effects on the liner. Calculation is for worst case.

- The sand and liner properties are specified in the plans
- The SHW used in the calculations is conservative
- The calculations assume completely dry soil above the liner during high groundwater conditions, which is unlikely to occur. It is more likely that the soil above the liner will be at least moist during times of high groundwater.

McIntosh Road - SMF 3-1 Liner Flotation Calculations

By: <u>J. Rehrl</u> Date: 5/22/2024 C'ked by: <u>C. Conner</u> Date: 5/22/2024

Calculations based on Square Foot of Liner.

Liner Crest =	57.40 ft
Pond Liner Elevation:	49.70 ft
Pond Bottom Elevation:	53.69 ft
Unit Weight of Water	62.4 pcf
Unit Weight of Saturated Sand:	125.0 pcf
Liner Depth Below Liner Crest =	7.70 ft
Minimum Saturated Sand Depth =	3.99 ft
Weight of Displaced Water = 62.4 lbs. / cu.ft. x (liner crest - liner bottom) x 1 s.f.	480.5 lbs
Weight of Saturated Sand = 125.0 lbs. / cu.ft. x (underdrain flow line - liner bottom) x 1 s.f.	1bs
Flotation Safety Factor = Total Weight of Sand / Weight of Displaced Water =	1.04*

Note: SHW elevation is below liner crest. If unusually high groundwater exceeds the top of the liner, the groundwater will flow into the pond to neutralize groundwater floatation effects on the liner. Calculation is for worst case.

- The sand and liner properties are specified in the plans
- The SHW used in the calculations is conservative
- The calculations assume completely dry soil above the liner during high groundwater conditions, which is unlikely to occur. It is more likely that the soil above the liner will be at least moist during times of high groundwater.

McIntosh Road - SMF 3-2 Liner Flotation Calculations

By: <u>J. Rehrl</u> Date: 5/22/2024 C'ked by: <u>C. Conner</u> Date: 5/22/2024

Calculations based on Square Foot of Liner.

Liner Crest =	57.40 ft
Pond Liner Elevation:	49.50 ft
Pond Bottom Elevation:	53.60 ft
Unit Weight of Water	62.4 pcf
Unit Weight of Saturated Sand:	125.0 pcf
Liner Depth Below Liner Crest =	7.90 ft
Minimum Saturated Sand Depth =	4.10 ft
Weight of Displaced Water = 62.4 lbs. / cu.ft. x (liner crest - liner bottom) x 1 s.f.	493.0 lbs
Weight of Saturated Sand = 125.0 lbs. / cu.ft. x (underdrain flow line - liner bottom) x 1 s.f.	512.5 lbs
Flotation Safety Factor = Total Weight of Sand / Weight of Displaced Water =	<u>1.04*</u>

Note: SHW elevation is below liner crest. If unusually high groundwater exceeds the top of the liner, the groundwater will flow into the pond to neutralize groundwater floatation effects on the liner. Calculation is for worst case.

- The sand and liner properties are specified in the plans
- The SHW used in the calculations is conservative
- The calculations assume completely dry soil above the liner during high groundwater conditions, which is unlikely to occur. It is more likely that the soil above the liner will be at least moist during times of high groundwater.

McIntosh Road - SMF 5-1 Liner Flotation Calculations

By: <u>J. Rehrl</u> Date: 5/22/2024 C'ked by: <u>C. Conner</u> Date: 5/22/2024

Calculations based on Square Foot of Liner.

Liner Crest =	55.48 ft
Pond Liner Elevation:	47.10 ft
Pond Bottom Elevation:	51.43 ft
Unit Weight of Water	62.4 pcf
Unit Weight of Saturated Sand:	125.0 pcf
Liner Depth Below Liner Crest =	8.38 ft
Minimum Saturated Sand Depth =	4.33 ft
Weight of Displaced Water = 62.4 lbs. / cu.ft. x (liner crest - liner bottom) x 1 s.f.	522.9 lbs
Weight of Saturated Sand = 125.0 lbs. / cu.ft. x (underdrain flow line - liner bottom) x 1 s.f.	541.3 lbs
Flotation Safety Factor = Total Weight of Sand / Weight of Displaced Water =	<u>1.04*</u>

Note: SHW elevation is below liner crest. If unusually high groundwater exceeds the top of the liner, the groundwater will flow into the pond to neutralize groundwater floatation effects on the liner. Calculation is for worst case.

- The sand and liner properties are specified in the plans
- The SHW used in the calculations is conservative
- The calculations assume completely dry soil above the liner during high groundwater conditions, which is unlikely to occur. It is more likely that the soil above the liner will be at least moist during times of high groundwater.

McIntosh Road - SMF 5-2 Liner Flotation Calculations

By: <u>J. Rehrl</u> Date: 5/22/2024 C'ked by: <u>C. Conner</u> Date: 5/22/2024

Calculations based on Square Foot of Liner.

Liner Crest =	55.48 ft
Pond Liner Elevation:	49.40 ft
Pond Bottom Elevation:	52.57 ft
Unit Weight of Water	62.4 pcf
Unit Weight of Saturated Sand:	125.0 pcf
Liner Depth Below Liner Crest =	6.08 ft
Minimum Saturated Sand Depth =	3.17 ft
Weight of Displaced Water = 62.4 lbs. / cu.ft. x (liner crest - liner bottom) x 1 s.f.	379.4 lbs
Weight of Saturated Sand = 125.0 lbs. / cu.ft. x (underdrain flow line - liner bottom) x 1 s.f.	396.3 lbs
Flotation Safety Factor = Total Weight of Sand / Weight of Displaced Water =	<u>1.04*</u>

Note: SHW elevation is below liner crest. If unusually high groundwater exceeds the top of the liner, the groundwater will flow into the pond to neutralize groundwater floatation effects on the liner. Calculation is for worst case.

- The sand and liner properties are specified in the plans
- The SHW used in the calculations is conservative
- The calculations assume completely dry soil above the liner during high groundwater conditions, which is unlikely to occur. It is more likely that the soil above the liner will be at least moist during times of high groundwater.

McIntosh Road - SMF 5-2 Liner Flotation Calculations

By: <u>J. Rehrl</u> Date: 5/22/2024 C'ked by: <u>C. Conner</u> Date: 5/22/2024

Calculations based on Square Foot of Liner.

Liner Crest =	55.48 ft
Pond Liner Elevation:	46.80 ft
Pond Bottom Elevation:	51.32 ft
Unit Weight of Water	62.4 pcf
Unit Weight of Saturated Sand:	125.0 pcf
Liner Depth Below Liner Crest =	8.68 ft
Minimum Saturated Sand Depth =	4.52 ft
Weight of Displaced Water = 62.4 lbs. / cu.ft. x (liner crest - liner bottom) x 1 s.f.	541.6 lbs
Weight of Saturated Sand = 125.0 lbs. / cu.ft. x (underdrain flow line - liner bottom) x 1 s.f.	565.0 lbs
Flotation Safety Factor = Total Weight of Sand / Weight of Displaced Water =	<u>1.04*</u>

Note: SHW elevation is below liner crest. If unusually high groundwater exceeds the top of the liner, the groundwater will flow into the pond to neutralize groundwater floatation effects on the liner. Calculation is for worst case.

- The sand and liner properties are specified in the plans
- The SHW used in the calculations is conservative
- The calculations assume completely dry soil above the liner during high groundwater conditions, which is unlikely to occur. It is more likely that the soil above the liner will be at least moist during times of high groundwater.

<u>Draft Pond Siting Report</u> <u>Pond Liner Calculations</u>

Prepared by: Patel, Greene, and Associates, LLC

Done by: J Rehrl

Date: 5/22/2024

Checked by: C. Conner

Date: 5/22/2024

		Pond	Liner Quantity			
Pond Name	SMF 2-1					
Liner Anchor (ft)	4					
Liner perimeter (ft)	1566					
Liner crest, elev.	56.50					
Liner bottom, elev.	44.00					
Liner slope (1:x)	4					
Liner length (ft)	52					
Liner Bottom Area, ft ²	49385					
Liner area along slopes, ft2	80716					
Liner Anchor area, ft2	6264					
Total Liner Area, ft2	136366	15,152	sq yd			
		Emban	kment Quantity			
Pond Bottom, elev.	50.51					
Liner Elev.	44.00					
Elevation	Area	Area	Incremental Volume	Cumulative Volume	Description	Fill
(ft)	(ac)	(ft2)	(ft3)	(ft3)		CY
50.51	1.53	66646.80		377685.01	Pond Bottom El 1:2	12 000
50.51	1.53	00040.80		3//085.01	excavation	13,988
			377685.01			
44.00	1.13	49385.46		0.00	Liner Bottom	

<u>Draft Pond Siting Report</u> <u>Pond Liner Calculations</u>

Prepared by: Patel, Greene, and Associates, LLC

Done by: J Rehrl

Date: 5/22/2024

Checked by: C. Conner
Date: 5/22/2024

		Pond I	Liner Quantity			
Pond Name	SMF 2-2					
Liner Anchor (ft)	4					
Liner perimeter (ft)	1348					
Liner crest, elev.	57.55					
Liner bottom, elev.	43.80					
Liner slope (1:x)	4					
Liner length (ft)	57					
Liner Bottom Area, ft ²	36681					
Liner area along slopes, ft2	76447					
Liner Anchor area, ft2	5394					
Total Liner Area, ft2	118521	13,169	sq yd			
		Embanl	kment Quantity			
Pond Bottom, elev.	50.91					
Liner Elev.	43.8					
Elevation	Area	Area	Incremental	Cumulative	Description	Fill
Licitation	71100	Aired	Volume	Volume	Description	1100
(ft)	(ac)	(ft2)	(ft3)	(ft3)		CY
					Pond Bottom	
50.91	1.18	51400.80		313130.91	El 1:2	11,597
					excavation	
			313130.91			
43.80	0.84	36681.03	·	0.00	Liner Bottom	

Draft Pond Siting Report Pond Liner Calculations

Prepared by: Patel, Greene, and Associates, LLC

Done by: J Rehrl 5/22/2024 Date:

Date:

Checked by: C. Conner 5/22/2024

		Pond	Liner Quantity			
Pond Name	SMF 3-1					
Liner Anchor (ft)	4					
Liner perimeter (ft)	1404					
Liner crest, elev.	57.40					
Liner bottom, elev.	49.70					
Liner slope (1:x)	4					
Liner length (ft)	32					
Liner Bottom Area, ft ²	81328					
Liner area along slopes, ft2	44568		4			
Liner Anchor area, ft2	5615					
Total Liner Area, ft2	131512	14,612	sq yd			
		Emban	kment Quantity			
Pond Bottom, elev.	53.69					
Liner Elev.	49.7	1				
Elevation	Area	Area	Incremental Volume	Cumulative Volume	Description	Fill
(ft)	(ac)	(ft2)	(ft3)	(ft3)		CY
53.69	2.09	91040.40		343874.96	Pond Bottom El 1:2 excavation	12736
			343874.96			
49.70	1.87	81328.00		0.00	Liner Bottom	

<u>Draft Pond Siting Report</u> <u>Pond Liner Calculations</u>

Prepared by: Patel, Greene, and Associates, LLC

Done by: J Rehrl

Date: 5/22/2024

Checked by: C. Conner

Date: 5/22/2024

		Pond	Liner Quantity			
Pond Name	SMF 3-2					
Liner Anchor (ft)	4					
Liner perimeter (ft)	1330					
Liner crest, elev.	57.40					
Liner bottom, elev.	49.50					
Liner slope (1:x)	4					
Liner length (ft)	33					
Liner Bottom Area, ft ²	68265					
Liner area along slopes, ft2	43324					
Liner Anchor area, ft2	5320					
Total Liner Area, ft2	116909	12,990	sq yd			
		Emban	kment Quantity			
Pond Bottom, elev.	53.6					
Liner Elev.	49.5					
Elevation	Area	Area	Incremental Volume	Cumulative Volume	Description	Fill
(ft)	(ac)	(ft2)	(ft3)	(ft3)		CY
					Pond Bottom	
53.60	1.78	77536.80		298893.67	El 1:2	11070
	4				excavation	
			298893.67			
49.50	1.57	68264.99		0.00	Liner Bottom	

<u>Draft Pond Siting Report</u> <u>Pond Liner Calculations</u>

Prepared by: Patel, Greene, and Associates, LLC

Done by: J Rehrl

Date: 5/22/2024

Checked by: C. Conner
Date: 5/22/2024

					•	
		Pond	Liner Quantity			
Pond Name	SMF 5-1					
Liner Anchor (ft)	4					
Liner perimeter (ft)	834					
Liner crest, elev.	55.48					
Liner bottom, elev.	47.10					
Liner slope (1:x)	4					
Liner length (ft)	35					
Liner Bottom Area, ft ²	24248					
Liner area along slopes, ft2	28802					
Liner Anchor area, ft2	3334					
Total Liner Area, ft2	56385	6,265	sq yd			
		Emban	kment Quantity			
Pond Bottom, elev.	51.43					
Liner Elev.	47.1					
Elevation	Area	Area	Incremental	Cumulative	Description	Fill
Elevation	Alea	Alea	Volume	Volume	Description	ГΙЦ
(ft)	(ac)	(ft2)	(ft3)	(ft3)		CY
					Pond Bottom	
51.43	0.69	30056.40		117570.02	El 1:2	4354
					excavation	
			117570.02			
47.10	0.56	24248.46		0.00	Liner Bottom	

<u>Draft Pond Siting Report</u> <u>Pond Liner Calculations</u>

Prepared by: Patel, Greene, and Associates, LLC

Done by: J Rehrl

Date: 5/22/2024

Checked by: C. Conner

Date: 5/22/2024

		Pond	Liner Quantity			
Pond Name	SMF 5-2					
Liner Anchor (ft)	4					
Liner perimeter (ft)	891					
Liner crest, elev.	55.48					
Liner bottom, elev.	49.40					
Liner slope (1:x)	4					
Liner length (ft)	25					
Liner Bottom Area, ft ²	28609					
Liner area along slopes, ft2	22327					
Liner Anchor area, ft2	3563					
Total Liner Area, ft2	54500	6,056	sq yd			
		Emban	kment Quantity			
Pond Bottom, elev.	52.57					
Liner Elev.	49.4					
Elevation	Area	Area	Incremental Volume	Cumulative Volume	Description	Fill
(ft)	(ac)	(ft2)	(ft3)	(ft3)		CY
52.57	0.77	33541.20		98508.73	Pond Bottom El 1:2 excavation	3648
			98508.73			
49.40	0.66	28609.42		0.00	Liner Bottom	

<u>Draft Pond Siting Report</u> <u>Pond Liner Calculations</u>

Prepared by: Patel, Greene, and Associates, LLC

Done by: J Rehrl

Date: 5/22/2024 Checked by: C. Conner

Date: 5/22/2024

		Pond	Liner Quantity			
Pond Name	SMF 5-3					
Liner Anchor (ft)	4					
Liner perimeter (ft)	919					
Liner crest, elev.	55.48					
Liner bottom, elev.	46.80					
Liner slope (1:x)	4					
Liner length (ft)	36					
Liner Bottom Area, ft ²	18858					
Liner area along slopes, ft2	32874					
Liner Anchor area, ft2	3674					
Total Liner Area, ft2	55407	6,156	sq yd			
		Emban	kment Quantity			
Pond Bottom, elev.	51.32					
Liner Elev.	46.8					
Elevation	Area	Area	Incremental Volume	Cumulative Volume	Description	Fill
(ft)	(ac)	(ft2)	(ft3)	(ft3)		CY
51.32	0.58	25264.80		99718.50	Pond Bottom El 1:2	3693
			99718.50			
46.80	0.43	18858.43		0.00	Liner Bottom	



Patel, Greene & Associates, LLC FPID: 447157-1-32-01 & 447158-1-32-01 FLOODPLAIN IMPACT VOLUME CALCULATIONS

Done By: KG

Date: 4/10/2024

Checked By: CDC

5/20/2024

Location: 1

Alignment Mcintosh Rd
Beg Station 0+20
End Station 10+60
Side LT

Impact Area (ac) 0.48
HCSWMM floodplain el. (ft) 56.53
SHGWT El. (ft) 54.60

Existing Ground El. (ft) 56.00

Floodplain Impact Volume (ac-ft) 0.25 (Automatically populates)

Patel, Greene & Associates, LLC FPID: 447157-1-32-01 & 447158-1-32-01 FLOODPLAIN IMPACT VOLUME CALCULATIONS

Done By: KG
Date: 4/10/2024

Checked By: CDC

5/20/2024

Location: 2

Alignment Mcintosh Rd
Beg Station 0+20
End Station 12+85
Side RT

Impact Area (ac) 1.58 HCSWMM floodplain el. (ft) 57.39

SHGWT El. (ft) 54.60 Existing Ground El. (ft) 56.00

Floodplain Impact Volume (ac-ft) 2.20 (Automatically populates)



Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN IMPACT VOLUME CALCULATIONS	

Done By: KG

Date: 12/19/2023
Checked By: T. Polk

2/6/2024

Location: 3

Alignment US 92
Beg Station 6+15
End Station 7+04
Side RT

Impact Area (ac) 0.09
HCSWMM floodplain el. (ft) 52.32
SHGWT El. (ft) 51.25
Existing Ground El. (ft) 51.00

Floodplain Impact Volume (ac-ft) 0.12 (Automatically populates)

Note: The existing ground was used for calculating impact.



Patel, (Greene & Associates, LLC	
FPID: 4471	157-1-32-01 & 447158-1-3	2-01
FLOODPLAIN I	IMPACT VOLUME CALCUL	ATIONS

Done By: KG

Date: 12/19/2023
Checked By: T. Polk

2/6/2024

Location: 4

Alignment US 92
Beg Station 7+13
End Station 10+90
Side RT

Impact Area (ac) 0.45
HCSWMM floodplain el. (ft) 52.90
SHGWT El. (ft) 51.75
Existing Ground El. (ft) 52.00

Floodplain Impact Volume (ac-ft) 0.40 (Automatically populates)

Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN IMPACT VOLUME CALCULATIONS	

Done By: KG

Date: 12/19/2023
Checked By: T. Polk

2/6/2024

Location: 5

Alignment US 92
Beg Station 19+25
End Station 26+06
Side RT

Impact Area (ac) 1.42
HCSWMM floodplain el. (ft) 57.77
SHGWT El. (ft) 56.00
Existing Ground El. (ft) 55.00

Floodplain Impact Volume (ac-ft) 3.93 (Automatically populates)

Note: The existing ground was used for calculating impact.

Patel, Greene & Associates, LLC
FPID: 447157-1-32-01 & 447158-1-32-01
FLOODPLAIN IMPACT VOLUME CALCULATIONS

Done By: KG

Date: 12/19/2023

Checked By: T. Polk 2/6/2024

Location: 6

Alignment US 92
Beg Station 28+62
End Station 33+85
Side LT

Impact Area (ac) 0.18
HCSWMM floodplain el. (ft) 57.39
SHGWT El. (ft) 57.55
Existing Ground El. (ft) 55.00

Floodplain Impact Volume (ac-ft) 0.43 (Automatically populates)

Note: The existing ground was used for calculating impact.

Done By: KG
Date: 4/10/2024

Checked By: CDC

5/20/2024

Location: 7

Alignment Mcintosh Rd
Beg Station 13+50
End Station 22+65
Side LT

Impact Area (ac) 0.48
HCSWMM floodplain el. (ft) 56.06
SHGWT El. (ft) 53.45
Existing Ground El. (ft) 55.00

Floodplain Impact Volume (ac-ft) 0.51 (Automatically populates)

Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN IMPACT VOLUME CALCULATIONS	

Done By: KG
Date: 4/10/2024

Checked By: CDC

5/20/2024

Location: 8

Alignment Mcintosh Rd
Beg Station 13+45
End Station 32+50
Side (LT & RT)

Impact Area (ac) 3.21
HCSWMM floodplain el. (ft) 57.23
SHGWT El. (ft) 53.20
Existing Ground El. (ft) 56.00

Floodplain Impact Volume (ac-ft) 3.95 (Automatically populates)



Patel, Greene & Associates, LLC
FPID: 447157-1-32-01 & 447158-1-32-01
FLOODPLAIN IMPACT VOLUME CALCULATIONS

Done By: KG

Date: 4/10/2024

Checked By: CDC

5/20/2024

Location:

Alignment Mcintosh Rd
Beg Station 32+10
End Station 32+95
Side LT

Impact Area (ac) 0.04
HCSWMM floodplain el. (ft) 57.19
SHGWT El. (ft) 53.80

Existing Ground El. (ft) 56.00

Floodplain Impact Volume (ac-ft) 0.05 (Automatically populates)

Note: The existing ground was used for calculating impact.



Done By: KG

Date: 4/10/2024

Checked By: CDC

5/20/2024

Location: 10

Alignment I-4 East Bound On Ramp

Beg Station 0+0
End Station 11+30
Side RT

Impact Area (ac) 0.81 HCSWMM floodplain el. (ft) 56.04

SHGWT El. (ft) 52.70 Existing Ground El. (ft) 55.00

Floodplain Impact Volume (ac-ft) 0.84 (Automatically populates)

Done By: KG

Date: 4/10/2024

Checked By: CDC

5/20/2024

Location: 11

Alignment I-4 East Bound Off Ramp

Beg Station 7+03 End Station 15+45 Side RT

> Impact Area (ac) 0.95 HCSWMM floodplain el. (ft) 55.75

SHGWT El. (ft) 52.20

Existing Ground El. (ft) 54.00

Floodplain Impact Volume (ac-ft) 1.66 (Automatically populates)



Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN IMPACT VOLUME CALCULATIONS	

Done By: KG

Date: 12/19/2023

Checked By: T. Polk

2/6/2024

Location: 12

Alignment Mcintosh Rd
Beg Station 35+15
End Station 41+35
Side RT

Impact Area (ac) 1.60
HCSWMM floodplain el. (ft) 56.14
SHGWT El. (ft) 52.70

Existing Ground El. (ft) 55.00

Floodplain Impact Volume (ac-ft) 1.82 (Automatically populates)

Patel, Greene & Associates, LLC
FPID: 447157-1-32-01 & 447158-1-32-01
FLOODPLAIN IMPACT VOLUME CALCULATIONS

Done By: KG

Date: 12/19/2023

Checked By: T. Polk

2/6/2024

Location: 13

Alignment Mcintosh Rd
Beg Station 35+30
End Station 41+50
Side LT

Impact Area (ac) 1.20 HCSWMM floodplain el. (ft) 56.10

SHGWT El. (ft) 52.30 Existing Ground El. (ft) 55.00

Floodplain Impact Volume (ac-ft) 1.32 (Automatically populates)



Done By: KG

Date: 12/19/2023

Checked By: T. Polk

2/6/2024

Location: 14

Alignment I-4 Westbound Off Ramp

Beg Station 0+0
End Station 9+76
Side LT

Impact Area (ac) 0.97 HCSWMM floodplain el. (ft) 56.14

SHGWT El. (ft) 53.60

Existing Ground El. (ft) 55.00

Floodplain Impact Volume (ac-ft) 1.11 (Automatically populates)



Done By: KG

Date: 4/10/2024

Checked By: CDC

5/20/2024

Location: 15

Alignment I-4 Westbound On Ramp

Beg Station 17+74
End Station 27+27
Side LT

Impact Area (ac) 0.81 HCSWMM floodplain el. (ft) 56.11

SHGWT El. (ft) 53.20 Existing Ground El. (ft) 55.00

Floodplain Impact Volume (ac-ft) 0.90 (Automatically populates)

Done By: KG

Date: 12/19/2023

Checked By: T. Polk

2/6/2024

Location: 16

Alignment Mcintosh Rd
Beg Station 44+20
End Station 46+30
Side LT

Impact Area (ac) 0.27
HCSWMM floodplain el. (ft) 56.11
SHGWT El. (ft) 54.80

Existing Ground El. (ft) 55.00

Floodplain Impact Volume (ac-ft) 0.30 (Automatically populates)

Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN IMPACT VOLUME CALCULATIONS	

Done By: KG

Date: 4/10/2024

Checked By: CDC

5/20/2024

Location: 17

Alignment Mcintosh Rd
Beg Station 44+35
End Station 51+95
Side RT

Impact Area (ac) 0.55 HCSWMM floodplain el. (ft) 56.29

SHGWT El. (ft) 54.00 Existing Ground El. (ft) 55.00

Floodplain Impact Volume (ac-ft) 0.71 (Automatically populates)

Done By: KG

Date: 4/10/2024

Checked By: CDC

5/20/2024

Location: 18

Alignment Mcintosh Rd
Beg Station 46+50
End Station 50+30
Side LT

Impact Area (ac) 0.25 HCSWMM floodplain el. (ft) 55.79 SHGWT El. (ft) 54.00

SHGWT El. (ft) 54.00 Existing Ground El. (ft) 55.00

Floodplain Impact Volume (ac-ft) 0.20 (Automatically populates)



Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN COMPENSATION CALCULATIONS	

FPC Pond Name FPC 1-1

Floodplain Impact 0.78 ac-ft Impact 1, 3 and 4

		Incremental	Cumulative	
Elevation	Area	Volume	Volume	
(ft)	(ac)	(ac-ft)	(ac-ft)	Description/Comments
52.32	2.54		0.81	Top of Berm
		0.81		
52.00	2.50		0.00	Est. SHWT

Side slopes and tie down slopes of this FPC are 1:4 to maximize the available space

Done By: KG

Date: 4/10/2024

Checked By: CDC

Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN COMPENSATION CALCULATIONS	

FPC Pond Name FPC 2-1

Floodplain Impact 6.13 ac-ft Impact 2 and 5

Elevation (ft)	Area (ac)	Incremental Volume (ac-ft)	Cumulative Volume (ac-ft)	Description/Comments
57.21	4.43		6.91	Top of Berm
		6.91		
55.60	4.16		0.00	Est. SHWT

Side slopes and tie down slopes of this FPC are 1:4 to maximize the available space



Date: 4/10/2024

Checked By: CDC

Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN COMPENSATION CALCULATIONS	

FPC Pond Name FPC 2-2A

Floodplain Impact 6.13 ac-ft Impact 2 and 5

Elevation (ft)	Area (ac)	Incremental Volume (ac-ft)	Cumulative Volume (ac-ft)	Description/Comments
57.77	0.82		1.75	Top of Berm
		1.75		
55.40	0.66		0.00	Est. SHWT

Side slopes and tie down slopes of this FPC are 1:4 to maximize the available space



Date: 4/10/2024

Checked By: CDC

Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN COMPENSATION CALCULATIONS	

FPC Pond Name FPC 2-2B

Floodplain Impact 6.13 ac-ft Impact 2 and 5

Elevation (ft)	Area (ac)	Incremental Volume (ac-ft)	Cumulative Volume (ac-ft)	Description/Comments
57.77	1.95		3.51	Top of Berm
		3.51		
55.80	1.61		0.00	Est. SHWT

Side slopes and tie down slopes of this FPC are 1:4 to maximize the available space



Date: 4/10/2024

Checked By: CDC

Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN COMPENSATION CALCULATIONS	

Date: 4/10/2024

Checked By: CDC

Done By: KG

Date: 5/20/2024

FPC Pond Name FPC 2-2C

> Floodplain Impact 6.13 ac-ft

Impact 2 and 5

		Incremental	Cumulative	
Elevation	Area	Volume	Volume	
(ft)	(ac)	(ac-ft)	(ac-ft)	Description/Comments
57.77	0.64		0.99	Top of Berm
		0.99		
56.10	0.55		0.00	Est. SHWT

Side slopes and tie down slopes of this FPC are 1:4 to maximize the available space

Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN COMPENSATION CALCULATIONS	

FPC Pond Name

FPC 3-1

Floodplain Impact 4.5

4.93 ac-ft

Impact 6, 7, 8 and 9

		Incremental	Cumulative	
Elevation	Area	Volume	Volume	
(ft)	(ac)	(ac-ft)	(ac-ft)	Description/Comments
57.23	3.85		4.93	Top of Berm
		4.93		
55.90	3.57		0.00	Est. SHWT

Side slopes and tie down slopes of this FPC are 1:4 to maximize the available space

Done By: KG

Date: 4/10/2024

Checked By: CDC

Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN COMPENSATION CALCULATIONS	

FPC Pond Name FPC 3-2

Floodplain Impact 4.93 ac-ft

Impact 6, 7, 8 and 9

Elevation	Area	Incremental Volume	Cumulative Volume	
(ft)	(ac)	(ac-ft)	(ac-ft)	Description/Comments
57.00	5.72		5.07	Top of Berm
		5.07		
56.10	5.54		0.00	Est. SHWT

Side slopes and tie down slopes of this FPC are 1:4 to maximize the available space

Done By: KG

Date: 4/10/2024

Checked By: CDC

Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN COMPENSATION CALCULATIONS	

FPC Pond Name FPC 4-1

Floodplain Impact 7.95 ac-ft Impact 10-16

		Incremental	Cumulative	
Elevation	Area	Volume	Volume	
(ft)	(ac)	(ac-ft)	(ac-ft)	Description/Comments
56.00	9.63		8.57	Top of Berm
		8.57		
55.10	9.42		0.00	Est. SHWT

Side slopes and tie down slopes of this FPC are 1:4 to maximize the available space



Date: 4/10/2024

Checked By: CDC

Patel, Greene & Associates, LLC	·
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN COMPENSATION CALCULATIONS	,

Date: 4/10/2024

Checked By: CDC

Done By: KG

Date: 5/20/2024

FPC Pond Name FPC 5-1

Floodplain Impact 0.91 ac-ft Impact 17 & 18

		Incremental	Cumulative	
Elevation	Area	Volume	Volume	
(ft)	(ac)	(ac-ft)	(ac-ft)	Description/Comments
56.00	0.96		1.53	Top of Berm
		1.53		
54.30	0.84		0.00	Est. SHWT

Side slopes and tie down slopes of this FPC are 1:4 to maximize the available space

Patel, Greene & Associates, LLC	
FPID: 447157-1-32-01 & 447158-1-32-01	
FLOODPLAIN COMPENSATION CALCULATIONS	

Checked By: CDC
Date: 5/20/2024

Date: 4/10/2024

Done By: KG

FPC Pond Name FPC 5-2

Floodplain Impact 0.91 ac-ft Impact 17 & 18

Elevation (ft)	Area (ac)	Incremental Volume (ac-ft)	Cumulative Volume (ac-ft)	Description/Comments
56.29	1.47		1.41	Top of Berm
		1.41		
55.30	1.37		0.00	Est. SHWT

Side slopes and tie down slopes of this FPC are 1:4 to maximize the available space





Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>SMF 1&7 -1</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	2.6	\$ 15,955.00	\$ 41,163.90
120-1	REGULAR EXCAVATION	CY	11419	\$ 9.00	\$ 102,771.00
120-6	EMBANKMENT	CY	381	\$ 22.00	\$ 8,382.00
				Subtotal:	\$ 152,316.90
	Contingency	LS	1	20%	\$ 30,463.38
				TOTAL:	\$ 182,780.28

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

		SMF 1&7-2					
Pay Item No.	Description		Unit	Quantity	U	nit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING		AC	2.6	\$	15,955.00	\$ 41,163.90
120-1	REGULAR EXCAVATION		CY	11397	\$	9.00	\$ 102,573.00
120-6	EMBANKMENT		CY	235	\$	22.00	\$ 5,170.00
						Subtotal:	\$ 148,906.90
	Contingency		LS	1		20%	\$ 29,781.38
						TOTAL:	\$ 178,688.28

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>SMF 2-1</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	3.1	\$ 15,955.00	\$ 49,939.15
120-1	REGULAR EXCAVATION	CY	29445	\$ 9.00	\$ 265,005.00
120-6	EMBANKMENT	CY	14328	\$ 22.00	\$ 315,216.00
531-1100	IMPERMEABLE POND LINER	SY	15152	\$ 35.00	\$ 530,320.00
				Subtotal:	\$ 1,160,480.15
	Contingency	LS	1	20%	\$ 232,096.03
				TOTAL:	\$ 1,392,576.18

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>SMF 2-2</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	2.5	\$ 15,955.00	\$ 40,047.05
120-1	REGULAR EXCAVATION	CY	24637	\$ 9.00	\$ 221,733.00
120-6	EMBANKMENT	CY	11747	\$ 22.00	\$ 258,434.00
531-1100	IMPERMEABLE POND LINER	SY	13169	\$ 35.00	\$ 460,915.00
				Subtotal:	\$ 981,129.05
	Contingency	LS	1	20%	\$ 196,225.81
				TOTAL:	\$ 1,177,354.86

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>SMF 3-1</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	3.35	\$ 15,955.00	\$ 53,449.25
120-1	REGULAR EXCAVATION	CY	28510	\$ 9.00	\$ 256,590.00
120-6	EMBANKMENT	CY	12751	\$ 22.00	\$ 280,522.00
531-1100	IMPERMEABLE POND LINER	SY	14612	\$ 35.00	\$ 511,420.00
				Subtotal:	\$ 1,101,981.25
	Contingency	LS	1	20%	\$ 220,396.25
				TOTAL:	\$ 1,322,377.50

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

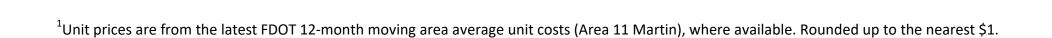
Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>SMF 3-2</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	3.3	\$ 15,955.00	\$ 52,172.85
120-1	REGULAR EXCAVATION	CY	24700	\$ 9.00	\$ 222,300.00
120-6	EMBANKMENT	CY	11071	\$ 22.00	\$ 243,562.00
531-1100	IMPERMEABLE POND LINER	SY	12990	\$ 35.00	\$ 454,650.00
430-175-160	PIPE CULVERT, OPT MATERIAL, ROUND, 60"S/CD	LF	1030	\$ 642.00	\$ 661,260.00
0425 2 71	MANHOLES, J-7, <10'	EA	3	\$ 25,204.00	\$ 75,612.00
0160 4	TYPE B STABILIZATION	SY	4751	\$ 25.00	\$ 118,762.50
285704	OPTIONAL BASE, BASE GROUP 04	SY	4751	\$ 12.00	\$ 57,006.00
0337 783	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-2	TN	389	\$ 192.41	\$ 74,847.49
				Subtotal:	\$ 1,960,172.84
	Contingency	LS	1	20%	\$ 392,034.57
				TOTAL:	\$ 2,352,207.41

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.



Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>SMF 5-1</u>					
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹		Total Cost
110-1-1	CLEARING AND GRUBBING	AC	1.9	\$ 15,955.00	\$	30,633.60
120-1	REGULAR EXCAVATION	CY	9846	\$ 9.00	\$	88,614.00
120-6	EMBANKMENT	CY	4368	\$ 22.00	\$	96,094.24
531-1100	IMPERMEABLE POND LINER	SY	6265	\$ 35.00	\$	219,275.00
				Subtotal:	44	434,616.84
	Contingency	LS	1	20%	\$	86,923.37
				TOTAL:	\$	521,540.21

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>SMF 5-2</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	2.2	\$ 15,955.00	\$ 34,781.90
120-1	REGULAR EXCAVATION	CY	9307	\$ 9.00	\$ 83,763.00
120-6	EMBANKMENT	CY	3652	\$ 22.00	\$ 80,344.00
531-1100	IMPERMEABLE POND LINER	SY	6056	\$ 35.00	\$ 211,960.00
				Subtotal:	\$ 410,848.90
	Contingency	LS	1	20%	\$ 82,169.78
				TOTAL:	\$ 493,018.68

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

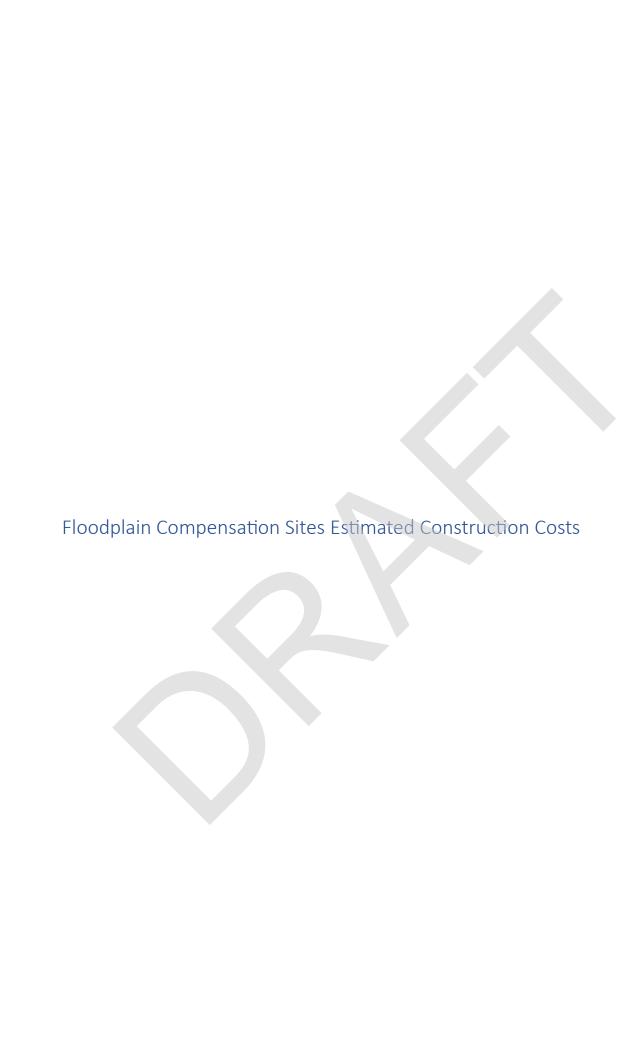
Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>SMF 5-3</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	1.6	\$ 15,955.00	\$ 24,889.80
120-1	REGULAR EXCAVATION	CY	8362	\$ 9.00	\$ 75,258.00
120-6	EMBANKMENT	CY	3593	\$ 22.00	\$ 79,046.00
531-1100	IMPERMEABLE POND LINER	SY	6156	\$ 35.00	\$ 215,460.00
				Subtotal:	\$ 394,653.80
	Contingency	LS	1	20%	\$ 78,930.76
				TOTAL:	\$ 473,584.56

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.



Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

 Done by:
 KG

 Date:
 4/30/2024

 Checked by:
 J. Rehrl

Date: 4/30/2024

	<u>FPC 1-1</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	2.54	\$ 15,955.00	\$ 40,525.70
120-1	REGULAR EXCAVATION	CY	1306.78	\$ 9.00	\$ 11,761.02
				Subtotal:	\$ 52,286.72
	Contingency	LS	1	20%	\$ 10,457.34
				TOTAL:	\$ 62,744.06

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>FPC 1-2</u>					
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cos	t
110-1-1	CLEARING AND GRUBBING	AC	0.00	\$ 15,955.00	\$	-
120-1	REGULAR EXCAVATION	CY	0.00	\$ 9.00	\$	-
				Subtotal:	\$	-
	Contingency	LS	1	20%	\$	-
				TOTAL:	\$	-

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>FPC 2-1</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	4.43	\$ 15,955.00	\$ 70,680.65
120-1	REGULAR EXCAVATION	CY	11148.11	\$ 9.00	\$ 100,332.99
				Subtotal:	\$ 171,013.64
	Contingency	LS	1	20%	\$ 34,202.73
		•		TOTAL:	\$ 205,216.37

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>FPC 2-2A</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	0.82	\$ 15,955.00	\$ 13,083.10
120-1	REGULAR EXCAVATION	CY	2823.33	\$ 9.00	\$ 25,409.97
				Subtotal:	\$ 38,493.07
	Contingency	LS	1	20%	\$ 7,698.61
		-		TOTAL:	\$ 46,191.68

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>FPC 2-2B</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	1.95	\$ 15,955.00	\$ 31,112.25
120-1	REGULAR EXCAVATION	CY	5662.79	\$ 9.00	\$ 50,965.11
				Subtotal:	\$ 82,077.36
	Contingency	LS	1	20%	\$ 16,415.47
				TOTAL:	\$ 98,492.83

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

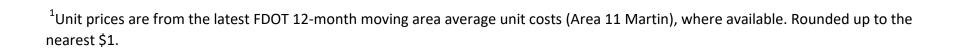
Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>FPC 2-2C</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	0.64	\$ 15,955.00	\$ 10,211.20
120-1	REGULAR EXCAVATION	CY	1597.20	\$ 9.00	\$ 14,374.80
				Subtotal:	\$ 24,586.00
	Contingency	LS	1	20%	\$ 4,917.20
	•			TOTAL:	\$ 29,503.20

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.



Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>FPC 3-1</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	3.85	\$ 15,955.00	\$ 61,426.75
120-1	REGULAR EXCAVATION	CY	7953.72	\$ 9.00	\$ 71,583.48
				Subtotal:	\$ 133,010.23
	Contingency	LS	1	20%	\$ 26,602.05
		•		TOTAL:	\$ 159,612.28

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>FPC 3-2</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	5.72	\$ 15,955.00	\$ 91,262.60
120-1	REGULAR EXCAVATION	CY	8179.58	\$ 9.00	\$ 73,616.22
				Subtotal:	\$ 164,878.82
	Contingency	LS	1	20%	\$ 32,975.76
		•		TOTAL:	\$ 197,854.58

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>FPC 4-1</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	9.63	\$ 15,955.00	\$ 153,646.65
120-1	REGULAR EXCAVATION	CY	13826.24	\$ 9.00	\$ 124,436.16
				Subtotal:	\$ 278,082.81
	Contingency	LS	1	20%	\$ 55,616.56
		•		TOTAL:	\$ 333,699.37

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>FPC 4-2</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	0.00	\$ 15,955.00	\$ -
120-1	REGULAR EXCAVATION	CY	0.00	\$ 9.00	\$ -
				Subtotal:	\$ -
	Contingency	LS	1	20%	\$ -
		•	•	TOTAL:	\$ -

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>FPC 5-1</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	0.96	\$ 15,955.00	\$ 15,316.80
120-1	REGULAR EXCAVATION	CY	2468.39	\$ 9.00	\$ 22,215.51
				Subtotal:	\$ 37,532.31
	Contingency	LS	1	20%	\$ 7,506.46
		-		TOTAL:	\$ 45,038.77

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

Preliminary Pond Siting Report

Cost Estimate

Prepared by: Patel, Greene, and Associates, LLC

	<u>FPC 5-2</u>				
Pay Item No.	Description	Unit	Quantity	Unit Cost ¹	Total Cost
110-1-1	CLEARING AND GRUBBING	AC	1.47	\$ 15,955.00	\$ 23,453.85
120-1	REGULAR EXCAVATION	CY	2274.80	\$ 9.00	\$ 20,473.20
				Subtotal:	\$ 43,927.05
	Contingency	LS	1	20%	\$ 8,785.41
		-		TOTAL:	\$ 52,712.46

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 8 Hillsborough), where available. Rounded up to the nearest \$1.

¹Unit prices are from the latest FDOT 12-month moving area average unit costs (Area 11 Martin), where available. Rounded up to the nearest \$1.

					ARTMENT OF T				HDR#:	10375841-2.27	
FN##	447457.4		BARRY AND RESIDENCE OF THE PARTY OF THE PART	EVE	FPC 1-1	AT CUS	LOTHVIATE	District:	пDn#.	Seven	
FM#: County:	447157-1 Hillsbor		Alternate: Segment:		N/A			District: Date:		25-Mar-24	
State Rd.:	SR 600	oug.	FAP#:		N/A			C.E. Sequence		N/A	
Project Des.			92 to North of Dickey	Rd. P	ond Sites		T				
Parcels Commercial	Gross	Net 0					Estimated Rel Business	ocatees:	0		
Residential	0						Residential				
Unimproved	1	1					Signs		0		
	-						Special		0		
Total Parcels	1	1					Total Relocate	ees	0		
R/W SUPPORT CO	STS (PHA							Amount			
1. Direct Labor Co		(Parcels	1	X	20,000 =	Rate		20,000			
2. Indirect Overh	ead	(Parcels	1	X	=	Rate)	0			200 000
3.		Carrier Services		37433				TOTAL PHASE 41	and the state of the second		\$20,000
R/W OPS (PHASE									Amount		
4. Appraisal Fee						1	Parcels	x 35,000 =	35,000 0		- 1
6. Court Reporter		ees Through Trial	50%	v	1 -	0 1		x 25,000 = x 500 =	500		
7. Expert Witnes		S SEIVEIS	75%	x		1		x 30,000 =	30,000		
8. Mediators			75%	x	1 =	1	The Control of the Co	x 3,500 =	3,500		1
9. Demolition, As	sb. Abate.,	Survey, etc.				0	Imprvmet	x 20,000 =	0		
10. Miscellaneou		s				1	Per Project		15,000		
11. Appraisal Fee	Review					0	Parcels	x 5,000 =	0		
12.						مراحد الماريدان		TOTAL PHASE 4B		NEW MORNING AND NO	\$84,000
R/W LAND COSTS								Amount	Subtotal		
0.0		everance Damages									
and Cost to Ci			0	X		Design p		=0			
14. Water Retenti	on & Mit.	(1 Pond)	45,738	X	120% (C	Parcels w	/o R/W Acq)	54,900			
15. SUBTOTAL (45	5,738 SF)					(Lines 13	&14)		54,900		
16. Admin. Settler	ments	(Factor	20%	x		Line 15)		= 6,600			
17. Litigation Awa	ards	(Factor	45%	X	40% o	Line 15)		= 9,900			
18. Business Dam	nages	(Claims	0	X)			= 0			
19. Bus. Damages		(Factor	25%	X	\$ -)			= 0			- 1
20. Owner Appr. F		(Parcels	1	X	\$30,000)			= 30,000			
21. Owner CPA Fe		(Claims	0	X	\$25,000)			=0			
22. Defend.Atty Fe		(Sum of Lines 16, 17 & 19)	16,500	X	33%)			=5,400			
23. Owner Expert		(Comm.+Unimp.)	0	+	1)	x18,000	<u>0</u>	= 18,000			
24. Other Condem	ın. Costs		1	х	\$1,000			= 1,000			
25. SUBTOTAL						(Lines 16	thru 24)	=	70,900		
26.								TOTAL PHASE 43			\$125,800
		esign plan stage:	% (3) 60% plans - 110	0/ //	1 00% plane -105%	(E) 260 Da	to -100%				
R/W ACQUISITION	Constitution and the continue	CONTRACTOR DESCRIPTION OF STREET PROCESS.	70 07 00 70 plans 110	70 17/	30 % plans 103 %	3) 200 DB	10070			THE RESERVE OF THE PARTY OF THE	
27. Acquisition Co		7 (8	\$20,000		0			TOTAL PHASE 42			\$0
ST - St. OTS - STATE OF STREET	unsultant-3		\$20,000	Х	U	_		TOTAL PHASE 42			φ0
IDEL CONTION COO	TO /DILAC	r ar\			Number		Amount				- 1
RELOCATION COS											1
		E 45) ment Housing	\$25,000	V							
28. Owner			\$25,000 \$25,000	X	0	=	0				
	Replace	ment Housing	\$25,000 \$25,000	X X		= =					
28. Owner		ment Housing	\$25,000	Х	0	=	0				
28. Owner 29. Tenant	Replace Move Co	ment Housing			0		0 0				
28. Owner 29. Tenant 30. Residential	Replace Move Co	ment Housing	\$25,000 \$3,000	x x	0 0	=	0 0				
28. Owner 29. Tenant 30. Residential 31. Business/Farn	Replace Move Con	ment Housing	\$25,000 \$3,000 \$30,000	x x x	0 0 0	= =	0 0	TOTAL PHASE 45			\$0
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop	Replace Move Connecty 32)	ment Housing osts	\$25,000 \$3,000 \$30,000	x x x	0 0 0	= =	0 0	TOTAL PHASE 45		12-72-	\$0
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35.	Replace Move Connecty 32)	ment Housing osts	\$25,000 \$3,000 \$30,000	x x x	0 0 0 0 0	= =	0 0 0 0 0	TOTAL PHASE 45			\$0
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36.	Replace Move Connecty 32)	ment Housing osts	\$25,000 \$3,000 \$30,000	x x x	0 0 0 0 0	= =	0 0 0 0 0 0				
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37.	Replace Move Co n nerty 32) ervices Cos	ment Housing osts	\$25,000 \$3,000 \$30,000 \$3,000	x x x	0 0 0 0 0 0	= =	0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE	Commenced to the case of the contract of		\$0
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate:	Replace Move Connecty 32) ervices Cos	ment Housing osts st	\$25,000 \$3,000 \$30,000 \$3,000 Signed:	x x x	0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL ESTIMATE	04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. :	Move Connective 32) Roger D. Alfred J.	pests Patton Thompson	\$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed:	x x x	0 0 0 0 0 \$0	= =	0 0 0 0 0 0	TOTAL ESTIMATE Date: Date:	04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation:	Move Commonts of the Common State of the Commo	pests Patton Thompson Patton	\$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x	0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL ESTIMATE Date: Date: Date:	04/07/24 04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. :	Move Commonts of the Common State of the Commo	pests Patton Thompson	\$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed:	x x x	0 0 0 0 0 \$0	= =	0 0 0 0 0 0	TOTAL ESTIMATE Date: Date:	04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review:	Move Comperty 32) Provices Cos Roger D Alfred J Roger D Alfred J	Patton Thompson Patton Thompson	\$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	0 0 0 0 0 0 \$0	= =	0 0 0 0 0 0 hase Total) (All Phases)	TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru i 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq	Move Comperty 32) Provices Cos Roger D Alfred J Roger D Alfred J	pests Patton Thompson Patton	\$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	0 0 0 0 0 \$0	= =	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL ESTIMATE Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review:	Move Comperty 32) Provices Cos Roger D Alfred J Roger D Alfred J	Patton Thompson Patton Thompson	\$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	0 0 0 0 0 0 \$0	= =	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru i 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq	Move Comperty 32) Provices Cos Roger D Alfred J Roger D Alfred J	Patton Thompson Patton Thompson	\$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	0 0 0 0 0 0 \$0	= =	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	Move Comperty 32) Provices Cos Roger D Alfred J Roger D Alfred J	Patton Thompson Patton Thompson	\$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	0 0 0 0 0 0 \$0	= =	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Replace Move Com nerty 32) rvices Cos Roger D Alfred J Roger D Alfred J	Patton Thompson Thompson Dated	\$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x x	0 0 0 0 0 0 \$0	= =	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Replace Move Common Services Cost Roger D. Alfred J. Roger D. Alfred J. Ruence #:	Patton Thompson Patton Thompson Dated	\$3,000 \$30,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x x	0 0 0 0 0 0 \$0	= =	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Replace Move Common Services Cos Roger D. Alfred J. Roger D. Roger D. Alfred J. Roger D.	Patton Thompson Thompson Dated	\$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x	0 0 0 0 0 0 \$0	= =	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Replace Move Common Services Cos Roger D. Alfred J. Roger D. Alfred J. Ruence #: icates theType AType BType B -	estimator's confiden	\$3,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x	0 0 0 0 0 0 \$0	= =	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	Replace Move Com Perty 32) Roger D. Alfred J. Roger D. Alfred J. Ruence #:	estimator's confidentindicates the most confidence above ave	\$3,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000	x x x x x	0 0 0 0 0 0 \$0	= =	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	Replace Move Connecty 32) Roger D. Alfred J. Roger D. Alfred J. Ituence #:	estimator's confidentindicates the least of indicates the least of i	\$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000	x x x x x	0 0 0 0 0 0 \$0	= =	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	Replace Move Connective Roger D. Alfred J. Roger D. Alfred J. Roger D. Alfred J. Type B - Type B - Type D - icates the	estimator's confidentindicates the most confidentindicates the most confidentindicates above aveindicates below aveindicates above aveindicates below aveindicates below aveindicates above aveindicates ab	\$3,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000	x x x x x	0 0 0 0 0 0 \$0	(Not in P	(All Phases)	TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24 on Date:		
28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	Replace Move Connective Roger D. Alfred J. Roger D. Alfred J. Roger D. Alfred J. Type B - Type B - Type D - icates the	estimator's confidentindicates the least of indicates the least of i	\$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000	x x x x x	0 0 0 0 0 0 \$0	= =	(All Phases)	TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24		

					ARTMENT OF T				HDR#:	10375841-2.27	
FM#: 4	47157-1		Alternate:		FPC 1-2	A1 000	LOTHWIATE	District:	115101	Seven	
	lillsborough		Segment:		N/A			Date:		25-Mar-24	
	SR 600		FAP#:		N/A			C.E. Sequence		N/A	
	Vicintosh Road F Gross Net	rom S of US 92 to	North of Dickey F	Rd. Po	ond Sites		Estimated Relo	ocatoos:			
Commercial _		Ō					Business	Julieus.	0		
Residential		<u>1</u>					Residential		0		
Unimproved	0	0					Signs		0		
Total Parcels	1	1					Special Total Relocate	98	0		
R/W SUPPORT COST	1,20			PARTIE DE			Total Holodato	Amount		Action Products in the State of the	
1. Direct Labor Cost		(Parcels	1	x	20,000 =	Rate)	20,000			
2. Indirect Overhead	ď	(Parcels	1	X	0 =	Rate	j	0			
3. R/W OPS (PHASE 4B)								TOTAL PHASE 41			\$20,000
									Amount		
4. Appraisal Fees T						1	120 0	x 35,000 =	35,000		
5. Business Damag 6. Court Reporter &			E00/			0		x 25,000 = x 500 =	0 500		
7. Expert Witness	Flucess Server	5	50% 75%	x	1 =	1		x 500 = x 30,000 =	30,000		
8. Mediators			75%	х	1 =	1		x 3,500 =	3,500		
9. Demolition, Asb.		etc.				0		x 20,000 =	0		
10. Miscellaneous C						1	Per Project >	35 70 50 60 60 60 60 60 60 60 60 60 60 60 60 60	15,000 0		
 Appraisal Fee Re 12. 	eview					0	Parcels >	TOTAL PHASE 4B			\$84,000
Commence of the Commence of th				oklasija.	CAMPOUT OF STREET	10 (BURNET TO SHOP THE	and the state of the second section is a second section of the second section of the second section is a second section of the section of th	A STATE OF THE PARTY OF THE PAR		\$04,000
R/W LAND COSTS (P 13. Land, Improveme		o Domosoc						Amount	Subtotal		
and Cost to Cure		e Damages	0	v	1200/	• Design p	lan etana	= 0			
14. Water Retention			288,030	X		100	/o R/W Acq)	345,600			
15. SUBTOTAL (50,53			200,030	^	120 /0 (1	Lines 13)	183	343,000	345,600		
16. Admin. Settlemen			20%	х	60% o	f Line 15)	= =	= 41,500			
17. Litigation Award	2010041 APRIL - 100 - 10		45%	x		f Line 15)	=	62,200			
18. Business Damag			0	x	0)		4	= 0			
19. Bus. Damages In	crs. (Factor		25%	x	\$ -)		-	= 0			
20. Owner Appr. Fee:		S	1	X	\$30,000)		-	30,000			
21. Owner CPA Fees			0	X	\$25,000)		-	=0			
22. Defend.Atty Fees		nes 16, 17 & 19)	103,700	X	33%_)		=	= 34,200			
23. Owner Expert Wi		+Unimp.)	0	+	0)	x <u>18,00</u>	<u>)</u> =	= 0			
24. Other Condemn. (25. SUBTOTAL	Costs		1	X	\$1,000	/Lines 16	*h**** 24\	1,000	169 000		
26.						(Lines 16	thru 24) =	TOTAL PHASE 43	168,900		\$514,500
* Design contingend	cv for design pla	an stane						TOTAL THASE 43			ψ314,500
			e) 60% plans - 110%	6 (4)	90% plans -105%	(5) 268 Da	te -100%				
R/W ACQUISITION C	ONSULTANT (P	HASE 42)									
27. Acquisition Cons	sultant-50% of pa	rcels	\$20,000	X	0			TOTAL PHASE 42			\$0
RELOCATION COSTS	(PHASE 45)		and the second s								
R	Replacement Ho	using			Number		Amount				
28. Owner			\$25,000	X	0	=:	0				
29. Tenant			\$25,000	Х	0	=	0				
1	Move Costs		¢2.000		0		0				
30. Residential 31. Business/Farm			\$3,000	X	0		0				
32. Personal Propert	ty		\$3,000	x	0	7 -					
33. (Lines 28 thru 32)	·		,,,,,,,					TOTAL PHASE 45			\$0
34. Relocation Servi	ces Cost				\$0	(Not in P	hase Total)				
35. 36.											
36.						У. 	/AU =-	TOTAL SECTION			0045
37. Real Estate:							(All Phases)	TOTAL ESTIMATE			\$618,500
	Roger D.Patton	án.	_Signed: _	1	apaton	10		_ Date: _	04/07/24		
	Alfred J. Thomps Roger D.Patton	son	_Signed: _ Signed:	1	A Deflection	a.g. 1	hongson	Date: Date:	04/07/24 04/07/24		
	Alfred J. Thomps	son	_Signed: _	F	10/2 TION_	10-	The same	_ Date:_ Date:	04/07/24		
_						7.	- Story	_			
Cost Estimate Seque	nce #:	Dated:		In th	ne Amount of \$		[Data Input Completi	on Date:		
REMARKS:											
The fell of the second											
The following indica		or's confidence in es the most confi		ite:							
		es above average									
		es below average									
T	Type D - indicate	es the least or no	confidence								
The following indica						-					********

					ARTMENT OF T N RIGHT OF W				HDR#:	10375841-2.27	
FM#:	447157-1		Alternate:		FPC 2-1	11 000	201111111111	District:		Seven	
County:	Hillsborou	gh	Segment:		N/A			Date:		25-Mar-24	
State Rd.:	SR 600		FAP#:		N/A			C.E. Sequence		N/A	
Project Des. Parcels	McIntosh Gross	Road From S of US 92 to Net	North of Dickey F	Rd. P	ond Sites		Estimated Relo	ratees:			
Commercial	0	0					Business	outces.	0		
Residential	0	0					Residential		0		
Unimproved	1	1					Signs		0		
Total Parcels	1	1					Special Total Relocate	96	0		
R/W SUPPORT COS	and the second second second second			No.		and the street	Total Helodate	Amount		Telephonesis makes	Called Service Service
1. Direct Labor Co		(Parcels	1	x	20,000 =	Rate)	20,000			
2. Indirect Overhe		(Parcels	1	X	0 =	Rate	5	0			
3.		,						TOTAL PHASE 41			\$20,000
R/W OPS (PHASE 4	IB)		Arthur Carlotta Carlotta	C WY		Continue of the		the county before the life such	Amount		
4. Appraisal Fees	Through Tr	rial				1	Parcels	35,000 =	35,000		
5. Business Dama						0		x 25,000 =	0		
6. Court Reporter		Servers	50%	X	=	1		x 500 =	500		
7. Expert Witness 8. Mediators	5		75% 75%	X X	1 =	1 1		x 30,000 = x 3,500 =	30,000 3,500		
9. Demolition, As	b. Abate., S	urvey, etc.	7370	^		Ö		x 20,000 =	0		
10. Miscellaneous	Contracts					1	Per Project x	20 C C C C C C C C C C C C C C C C C C C	15,000		
11. Appraisal Fee I	Review					0	Parcels x		0		
12.				The Prop.	The Army Court of Spring Court			TOTAL PHASE 4B	and the part has been stored		\$84,000
R/W LAND COSTS								Amount	Subtotal		
13. Land, Improven		erance Damages			SAR						
and Cost to Cu			-158,559	X		Design p		-190,300			
14. Water Retentio		Ponds)	456,509	X	(0		/o R/W Acq)	547,800			
15. SUBTOTAL (139						(Lines 13	&14)	40.000	357,500		
16. Admin. Settlem		actor	20%	Х		Line 15)	=	42,900			
17. Litigation Awa 18. Business Dama		Factor Claims	45%	X	0)	Line 15)		64,400			
19. Bus. Damages		Factor	25%	X X	\$ -)			0			
20. Owner Appr. Fe		Parcels	1	x	\$30,000)			30,000			
21. Owner CPA Fee	•	Claims	0	X	\$25,000)		_	= 0			
22. Defend.Atty Fed	es (S	Sum of Lines 16, 17 & 19)	107,300	X	33%)		=	35,400			
23. Owner Expert \	Witness (0	Comm.+Unimp.)	0	+	1):	18,00) =	18,000			
24. Other Condemn	ı. Costs		1	X	\$1,000		-	1,000			
25. SUBTOTAL						(Lines 16	thru 24) =		191,700		
26.								TOTAL PHASE 43			\$549,200
* Design continge		ign plan stage: '2) 30% plans - 115% (3	Pl 600/ plane 1100	/ //	1 00% plane 105%	/El 200 Do	1000/				
ET STORY WAS CONFIDENCE.	A STATE OF THE PARTY OF THE PAR		y 00 % pians - 110 /	0 (4)	30 % pians -103 %	3) 200 Da	16 -100 /8				
R/W ACQUISITION			ė20 000		•			TOTAL DUACE 42			ėn
27. Acquisition Co	and the same has		\$20,000	Х	0			TOTAL PHASE 42			\$0
RELOCATION COST		45) ent Housing			Number		A				
28. Owner	періасеііі	ent nousing	\$25,000	х	Number	=	Amount 0				
29. Tenant			\$25,000	X	0		0				
	Move Cost	ts									
30. Residential			\$3,000	X	0	=	0				
31. Business/Farm			\$30,000	X	0	=	0				
32. Personal Prope			\$3,000	Х	0	=	0				
33. (Lines 28 thru 3					**	/m		TOTAL PHASE 45			\$0
34. Relocation Ser	vices Cost		_		\$0	(Not in P	hase Total)	- ERROR - SPANISH - SPANISH STATE		- In the American	
35. 36.											
37.						-	(All Phases)	TOTAL ESTIMATE			\$653,200
Real Estate:	Roger D.P.	atton	Signed:	13	DOHOU	Contract Con	, ,	Date:	04/07/24	State of the State	+ - 20,E00
Bus. Dam. :	Alfred J. T		_Signed: _	V	1 CHOW	0, 1	La Man	_ Date:	04/07/24		
Relocation:	Roger D.P.	atton	Signed:	E	ACIENON_	1	The state of the s	Date:	04/07/24		
Overall Review:	Alfred J. T	hompson	_Signed:		a	V.T	houpson	Date:	04/07/24		
Cost Estimate Sequ	10000 #1	Dotodi		I = 41	h = 0 4 - 6 6	1	/	N-4- I4 OI-4	D-4		
REMARKS:	Jelice #.	Dated:		In ti	he Amount of \$		L	Data Input Completi	on Date:		
The following indi	cates the es	stimator's confidence i	n the above estima	ite:							
	Type A - ir	ndicates the most confi	dence								
		ndicates above average									
х		idicates below average idicates the least or no									
	- i Ahe n - II	iuioaies ilie iedši Ui 110	Commutation								
The following indic Work Program Upd		epartment's purpose fo	r this estimate: Gaming 1:			Special	Purpose:	х	Docs to RW:		
Comments:	0										

						ARTMENT OF T N RIGHT OF W				HDR#:	10375841-2.27	
FM#:	447157-1			Alternate:		FPC 2-2A			District:		Seven	
County:	Hillsbor			Segment:		N/A			Date:		25-Mar-24	
State Rd.:	SR 600			FAP#:		N/A			C.E. Sequence		N/A	
Project Des. Parcels	Gross	Net	n S of US 92 to	o North of Dickey F	Kd. P	ond Sites		Estimated Relo	catees.			
Commercial	1							Business	,001,000,	0		
Residential	0							Residential		0		
Unimproved	0	0						Signs		0		
Total Parcels	1	1						Special Total Relocate	es			
R/W SUPPORT COS	-	The second second							Amount			
1. Direct Labor Co			arcels	1	х	20,000 =	Rate)	20,000			
2. Indirect Overhe	ad	(P	arcels	1	x	0 =	Rate)	0			
3.									TOTAL PHASE 41			\$20,000
R/W OPS (PHASE 4		Direct As are								Amount		
4. Appraisal Fees			CTA-I				1		x 35,000 =			
 Business Dama Court Reporter 			ih Irial	E00/-	v	1 =	-1 1		x 25,000 = x 500 =			
7. Expert Witness		s servers		50% 75%	x	1 =	1		x 30,000 =			
8. Mediators	•			75%	х	1 =	1		x 3,500 =	100,000 N E		
9. Demolition, As).				0	and the same of th	x 20,000 =			
10. Miscellaneous		ts					1	Per Project				
11. Appraisal Fee 1	Keview						0	Parcels >	TOTAL PHASE 4B			\$59,000
			Versell a colonia di seria.					CONTRACTOR OF THE PERSON	the same of the state of the	The second second		\$33,000
R/W LAND COSTS			rentrement						Amount	Subtotal		
13. Land, Improver and Cost to Cu			amages	•		4200/	· Dooiss	olan stage =	= 0			
14. Water Retention				1,530,479	x	120%		//o R/W Acq)	1,836,600			
15. SUBTOTAL (61,		(o r olius)		1,550,475	Α.	12070 (0	Lines 13)	38.53	1,030,000	1,836,600		
16. Admin. Settlen	0 100 10 100	(Factor		20%	х	60% n	f Line 15)	=	= 220,400	1,000,000		
17. Litigation Awa		(Factor		45%	X		f Line 15)	=	330,600			
18. Business Dama		(Claims		0	х	0)			-650,000			
19. Bus. Damages	Incrs.	(Factor		25%	X	\$ -)			= 0			
20. Owner Appr. Fo	ees	(Parcels		1	X	\$30,000)		-	30,000			
21. Owner CPA Fe	es	(Claims		-1	X	\$25,000)		=	-25,000			
22. Defend.Atty Fe		(Sum of Lines	16, 17 & 19)	551,000	X	33%_)		=	181,800			
23. Owner Expert		(Comm.+U	nimp.)	1	+	0)	x 18,00	0 =	11/500			
24. Other Condemi	n. Costs			1	X	\$1,000	/lines 46	- Ab 24)	= 1,000	100 000		
25. SUBTOTAL 26.							(Lines 16	tnru 24) =	TOTAL PHASE 43	106,800	¢1	,943,400
* Design continge	ncv for d	esian nlan e	otogo:						TOTAL PHASE 43		Ψ1,	,343,400
	moy ror u											
				3) 60% plans - 1109	% (4)	90% plans -105%	(5) 268 Da	te -100%				
(1) PD&E pla	ns - 120%	6 (2) 30% p.	lans - 115% (3	3) 60% plans - 1109	% (4)	90% plans -105%	(5) 268 Da	te -100%				
	CONSUL	.TANT (PHA	<i>lans - 115% (3</i> SE 42)	3) 60% plans - 1109 \$20,000	% (4) x	90% plans -105%	(5) 268 Da	te -100%	TOTAL PHASE 42			\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co	CONSUL nsultant-5	6 (2) 30% p. TANT (PHA 50% of parce	<i>lans - 115% (3</i> SE 42)				(5) 268 Da	te -100%	TOTAL PHASE 42			\$0
(1) PD&E pla	CONSUL nsultant-S	6 (2) 30% p. TANT (PHA 50% of parce	<i>lans - 115% (3</i> SE 42) Ils				(5) 268 Da	Amount	TOTAL PHASE 42			\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COST	CONSUL nsultant-S	<i>(2) 30% p.</i> TANT (PHA 50% of parce E 45)	<i>lans - 115% (3</i> SE 42) Ils	\$20,000 \$25,000		O Number O	(5) 268 Da	Amount 0	TOTAL PHASE 42			\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COST	CONSUL nsultant-5 TS (PHAS Replace	TANT (PHA 50% of parce E 45) ement Housi	<i>lans - 115% (3</i> SE 42) Ils	\$20,000	х	0 Number	(5) 268 Da	Amount	TOTAL PHASE 42			\$0
(i) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS ² 28. Owner 29. Tenant	CONSUL nsultant-S	TANT (PHA 50% of parce E 45) ement Housi	<i>lans - 115% (3</i> SE 42) Ils	\$20,000 \$25,000 \$25,000	x x x	Number 0 0	(5) 268 Da	Amount 0 0	TOTAL PHASE 42			\$0
(i) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS ² 28. Owner 29. Tenant 30. Residential	CONSUL nsultant-5 TS (PHAS Replace	TANT (PHA 50% of parce E 45) ement Housi	<i>lans - 115% (3</i> SE 42) Ils	\$20,000 \$25,000 \$25,000 \$3,000	x x x	Number 0 0	(5) 268 Da	Amount 0 0 0	TOTAL PHASE 42			\$0
(i) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm	CONSUL nsultant-5 TS (PHAS Replace	TANT (PHA 50% of parce E 45) ement Housi	<i>lans - 115% (3</i> SE 42) Ils	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0	(5) 268 Da	Amount 0 0	TOTAL PHASE 42			\$0
(i) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS ² 28. Owner 29. Tenant 30. Residential	CONSUL nsultant-S TS (PHAS Replace Move Co	TANT (PHA 50% of parce E 45) ement Housi	<i>lans - 115% (3</i> SE 42) Ils	\$20,000 \$25,000 \$25,000 \$3,000	x x x	Number 0 0	= = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 42			\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope	CONSUL nsultant-5 TS (PHAS Replace Move Co	G (2) 30% p. TANT (PHA 50% of parce E 45) ement Housi	<i>lans - 115% (3</i> SE 42) Ils	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0	-	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
(i) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35.	CONSUL nsultant-5 TS (PHAS Replace Move Co	G (2) 30% p. TANT (PHA 50% of parce E 45) ement Housi	<i>lans - 115% (3</i> SE 42) Ils	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	0 Number 0 0 0	-	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Proper 33. (Lines 28 thru 3 34. Relocation Ser 35. 36.	CONSUL nsultant-5 TS (PHAS Replace Move Co	G (2) 30% p. TANT (PHA 50% of parce E 45) ement Housi	<i>lans - 115% (3</i> SE 42) Ils	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	0 Number 0 0 0	-	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45			\$0
(7) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37.	Move Computer Consultant-5	TANT (PHA TANT (PHA 50% of parce E 45) Ement Housi osts	<i>lans - 115% (3</i> SE 42) Ils	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x x x	0 Number 0 0 0 0 0	-	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45	E	\$2	
(7) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate:	CONSUL Insultant-E TS (PHAS Replace Move Co erty (2) vices Cos	. (2) 30% p. TANT (PHA 50% of parce E 45) ement Housi osts	Jans - 115% (. SE 42) ils	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x x x	0 Number 0 0 0	-	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE Date:	E 04/07/24	\$2	\$0
(i) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. :	CONSUL nsultant-5 TS (PHAS Replace Move Co erty (2) vices Cos	.Patton	Jans - 115% (. SE 42) ils	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x x x	Number 0 0 0 0 0 0 0 0 0 0 0	-	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date:	E 04/07/24 04/07/24	\$2.	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Proper 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation:	Roger D Alfred J Roger D Alfred J Roger D	TANT (PHA 50% of parce E 45) ment Housi osts Patton Thompson Patton	Jans - 115% (SE 42)	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3igned: Signed: Signed: Signed:	x x x x x	0 Number 0 0 0 0 0	-	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24	\$2,	\$0
(i) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. :	Roger D Alfred J Roger D Alfred J Roger D	.Patton	Jans - 115% (SE 42)	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x x x	Number 0 0 0 0 0 0 0 0 0 0 0	-	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date:	E 04/07/24 04/07/24	\$2.	\$0
(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequence	Roger D Alfred J Alfred J	TANT (PHA 50% of parce E 45) ment Housi osts Patton Thompson Patton	Jans - 115% (SE 42)	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3igned: Signed: Signed: Signed:	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0	-	Amount 0 0 0 0 0 0 0 thase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$2,	\$0
(i) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review:	Roger D Alfred J Alfred J	E 45) ment Housi osts Patton Thompson Thompson	Jans - 115% (SE 42) Ils Ing Dated:	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x x x	Number 0 0 0 0 0 0 \$0 so he Amount of \$	(Not in F	Amount 0 0 0 0 0 0 0 thase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 fon Date:	\$2,	\$0
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(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequence	Roger D Alfred J Alfred J	E 45) ment Housi osts Patton Thompson Thompson	Jans - 115% (SE 42) Ils Ing Dated:	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x x x	Number 0 0 0 0 0 0 \$0 so he Amount of \$	(Not in F	Amount 0 0 0 0 0 0 0 thase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 fon Date:	\$2.	\$0
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(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequence REMARKS:	Roger D Alfred J Roger B Alfred J Roger B Alfred J Roger B Alfred J Roger B Alfred J	E 45) ment Housi st Patton Thompson Thompson Thompson Thompson	Dated: Confidence is the most confidence in	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x x x x	Number 0 0 0 0 0 0 \$0 so he Amount of \$	(Not in F	Amount 0 0 0 0 0 0 0 thase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 fon Date:	\$2.	\$0
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FM#:	447157-	1		CONTRACTOR OF STREET	EVE	FPC 2	between the one of the	AT CUS	I ESTIMATE	District:	пиn#:	10375841-2.27 Seven	N
County:	Hillsbo			Alternate: Segment:		N/A	:-ZB			District: Date:		25-Mar-24	
State Rd.:	SR 600			FAP#:		N/A				C.E. Sequence		N/A	
Project Des.			of US 92 to	North of Dickey	Rd. P	ond Si	tes						
Parcels Commercial	Gross	Net 0							Estimated Rel Business	ocatees:	1		
Residential		2 2							Residential		3		
Unimproved		2 2							Signs		0		
Total Davida									Special		0		
Total Parcels	and Market State	4 4		EWIND Roof III and the				-	Total Relocat	eren and a second of the second	4	AND ADDRESS OF THE TAX	
R/W SUPPORT CO 1. Direct Labor Co		45E 41) (Parc	alc	4	x		20,000 =	Rate	N.	Amount 80,000			
2. Indirect Overhe		(Parc	and the second	4	X	-	0 =			00,000			
3.		•.			10.0				•	TOTAL PHASE 41		\$80	0,000
R/W OPS (PHASE	4B)	N. CO. S. C. CO.			e Carron				Parent Parent		Amount		CAB GREE
4. Appraisal Fees	s Through							4	Parcels	x 35,000 =	140,000		
5. Business Dam	age CPA	Fees Through T	Trial				-	0		x 25,000 =			
6. Court Reporter 7. Expert Witnes		ss Servers		50%	Х		4 =	2	Parcels	x 500 =			
8. Mediators	3		,	75% 75%	X		4 =	3 3	Parcels Parcels	x 30,000 = x 3,500 =			
9. Demolition, As	sb. Abate.	., Survey, etc.	1					3	W State Control Control	x 20,000 =			
10. Miscellaneous		ts						1	Per Project				
11. Appraisal Fee	Keview							1	Parcels	x 5,000 =		6204	4 500
12.	-							The same of the sa		TOTAL PHASE 4B	Library publication and the	\$321	1,500
R/W LAND COSTS										Amount	Subtotal		
13. Land, Improver and Cost to Cu			iages	^	**		1200/	Posis	lan ctars	_			
14. Water Retention				2,058,640	X	Y		Design p	<i>lan stage</i> //o R/W Acq)	= <u>0</u> 2,470,400			
15. SUBTOTAL (17		(1 Folia)		2,038,040	X	-	120% ((Lines 13)		2,470,400	2,470,400		
16. Admin. Settlen	6 10 III 12 16	(Factor		20%	х		60% o	f Line 15)		= 296,400	2,470,400		
17. Litigation Awa		(Factor	1	45%	X			f Line 15)		= 444,700			
18. Business Dam		(Claims		0	х		0)			= 0			
19. Bus. Damages	Incrs.	(Factor		25%	x	\$	-)			= 0			
20. Owner Appr. F	ees	(Parcels		4	X		\$30,000)			= 120,000			
21. Owner CPA Fe		(Claims		0	X		\$25,000)			=0			
22. Defend.Atty Fe		(Sum of Lines 16,		741,100	X	_	33%)			=244,600			
23. Owner Expert		(Comm.+Unim	ıp.)	0	+		2)	x 18,00	_	= 36,000			
24. Other Condem 25. SUBTOTAL	n. Costs			4	X		\$1,000	(Lines 16		= 4,000	1,145,700		
26.								(Lines to	tiiru 24)	TOTAL PHASE 43		\$3,616	6.100
* Design continge	ency for a	lesign plan stag	ge:							101/12111/10210		45/5/1	0,100
	anc - 1200	/ /al ann/ /											
				60% plans - 110	% (4)	90% p	lans -105%	(5) 268 Da	te -100%				
R/W ACQUISITION	CONSU	LTANT (PHASE				90% إ		(5) 268 Da	te -100%				***
R/W ACQUISITION 27. Acquisition Co	N CONSUI	LTANT (PHASE 50% of parcels		60% plans - 110 \$20,000	% (4) x) <i>90%</i> (olans -105% 0	(5) 268 Da	te -100%	TOTAL PHASE 42			\$0
R/W ACQUISITION	N CONSUI onsultant- TS (PHAS	LTANT (PHASE 50% of parcels SE 45)	42)			90% إ	0	(5) 268 Da		TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition Co RELOCATION COS	N CONSUI onsultant- TS (PHAS	LTANT (PHASE 50% of parcels	42)	\$20,000	x	90% إ	0 Number	(5) 268 Da	Amount	TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition Co	N CONSUI onsultant- TS (PHAS	LTANT (PHASE 50% of parcels SE 45)	42)			90% إ	0	(5) 268 Da		TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner	N CONSUI onsultant- TS (PHAS	LTANT (PHASE 50% of parcels SE 45) ement Housing	42)	\$20,000 \$25,000	x	90% ,	0 Number	=	Amount 0	TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential	N CONSUI onsultant- TS (PHAS Replace Move C	LTANT (PHASE 50% of parcels SE 45) ement Housing	42)	\$20,000 \$25,000 \$25,000 \$3,000	x x x	90% إ	0 Number 0 3	=	Amount 0 75,000 9,000	TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm	N CONSUI onsultant- TS (PHAS Replace Move C	LTANT (PHASE 50% of parcels SE 45) ement Housing	42)	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	90% μ	0 Number 0 3 3	= = = =	Amount 0 75,000 9,000 30,000	TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop	M CONSUITOR CONSUITATION OF THE PROPERTY OF T	LTANT (PHASE 50% of parcels SE 45) ement Housing	42)	\$20,000 \$25,000 \$25,000 \$3,000	x x x	90% μ	0 Number 0 3	= =	Amount 0 75,000 9,000			\$14	
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3	N CONSUI onsultant- TS (PHAS Replace Move C 1 erty 32)	LTANT (PHASE 50% of parcels SE 45) ement Housing	42)	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	90% μ	0 Number 0 3 3 1 0	= = = = =	Amount 0 75,000 9,000 30,000 0	TOTAL PHASE 42		\$114	\$0 4,000
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R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sei 35. 36.	N CONSUI onsultant- TS (PHAS Replace Move C 1 erty 32)	LTANT (PHASE 50% of parcels SE 45) ement Housing	42)	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	90% μ	0 Number 0 3 3 1 0	= = = = =	Amount 0 75,000 9,000 30,000 0 hase Total)	TOTAL PHASE 45		\$114	
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R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sei 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Move Consultant- TS (PHAS Replace Move Conserty 32) rvices Co Roger E Alfred Conserted Alfred Conserted Roger E Alfred Conserted Type A	LTANT (PHASE 50% of parcels 50% of p	Dated: s estimate as onfidence in most confid	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000	x x x x x x ln ttl	He Amo	0 Number 0 3 1 0 \$11,400	= = = = = = (Not in P	Amount 0 75,000 9,000 30,000 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		4,000
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sei 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Move Consultant- TS (PHAS Replace Move Conserving States Consultant- TS (PHAS Replace Move Conserving States Conservin	LTANT (PHASE 50% of parcels 50% of p	Dated: s estimate as most confidence in most confidence average ow average	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x ln ttl	He Amo	0 Number 0 3 1 0 \$11,400	= = = = = = (Not in P	Amount 0 75,000 9,000 30,000 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		4,000
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sei 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Move Consultant- TS (PHAS Replace Move Conserving States Consultant- TS (PHAS Replace Move Conserving States Conservin	LTANT (PHASE 50% of parcels 50% of p	Dated: s estimate as most confidence in most confidence average ow average	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x ln ttl	He Amo	0 Number 0 3 1 0 \$11,400	= = = = = = (Not in P	Amount 0 75,000 9,000 30,000 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		4,000
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sel 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	Move Consultant- TS (PHAS Replace Move Conserving Size (Phas Replace) Roger Entry Size (Phas Roger Entry Size) Alfred Consultant Roger Entry Size (Phas Roger	LTANT (PHASE 50% of parcels 50% of p	Dated: s estimate as most confid ve average on average least or no confidence in most confid ve average least or no confidence in the conf	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x ln ttl	He Amo	0 Number 0 3 1 0 \$11,400	= = = = = = (Not in P	Amount 0 75,000 9,000 30,000 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		4,000
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sel 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS: The following indi	Move Consultant- TS (PHAS Replace Move Conserving States the Alfred Consultant- Roger Endired Consultant States the Type A Type B Type Consultant States the Type Dicates the Consultant States the Consultant States the Consultant States the Consultant States Type Consultant	LTANT (PHASE 50% of parcels 50% of p	Dated: s estimate as most confid ve average on average least or no confidence in most confid ve average least or no confidence in the conf	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: the above estimate ence confidence confidence confidence this estimate:	x x x x x x ln ttl	He Amo	0 Number 0 3 1 0 \$11,400	(Not in P	Amount0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Total input Completice 5.	E 04/07/24 04/07/24 04/07/24 04/07/24 fon Date:		4,000
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sel 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	Move Consultant- TS (PHAS Replace Move Conserving States the Alfred Consultant- Roger Endired Consultant States the Type A Type B Type Consultant States the Type Dicates the Consultant States the Consultant States the Consultant States the Consultant States Type Consultant	LTANT (PHASE 50% of parcels 50% of p	Dated: s estimate as most confid ve average on average least or no confidence in most confid ve average least or no confidence in the conf	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x ln ttl	He Amo	0 Number 0 3 1 0 \$11,400	= = = = = = (Not in P	Amount0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		4,000

			FLORIDA D		TMENT OF T				HDR#:	10375841-2.27	
FM#:	447157-1		Alternate:	William Co.	PC 3-1			District:		Seven	
County:	Hillsborough		Segment:	N.	/A			Date:		25-Mar-24	
State Rd.:	SR 600	C -4 UC 00 4-	FAP#:		/A			C.E. Sequence		N/A	- 1
Project Des. Parcels	Gross Net	From 5 of US 92 to	North of Dickey R	ia. Pond	Sites		Estimated Relo	catees:			-
Commercial	0	0					Business		0		
Residential	0	1 0					Residential		0		9
Unimproved	1	U					Signs Special				1
Total Parcels	1"	1					Total Relocate	es	0		
R/W SUPPORT COS	STS (PHASE 41)					No. like the last or make	to the second second	Amount		ELECTRICAL STREET, SECTION OF THE SE	
1. Direct Labor Co		(Parcels	1	x _	20,000 =	Rate		20,000			
2. Indirect Overhe		(Parcels	1	x _	<u> </u>	Rate)	0			***
3. R/W OPS (PHASE 4			SISSESSION OF SHEET OF			The state of the state		TOTAL PHASE 41			\$20,000
R/W OPS (PHASE 4 4. Appraisal Fees							Donasla	25 000	Amount		
5. Business Dama		ough Trial				1 0		x 35,000 = x 25,000 =	35,000 0		
6. Court Reporter			50%	X	1 =	1		K 500 =	500		
7. Expert Witness			75%	х	1 =	1		x 30,000 =	30,000		
Mediators Demolition, Asl	h Abata Sumay	oto	75%	x _	1 =	1 0		x 3,500 = x 20,000 =	3,500 0		
10. Miscellaneous		, 610.				1	Per Project		15,000		
11. Appraisal Fee F	Review					0	Parcels x		0		
12.			W-15-16 22-27-27-27-27-27-27-27-27-27-27-27-27-2					TOTAL PHASE 4B			\$84,000
R/W LAND COSTS (Amount	Subtotal		
13. Land, Improven		e Damages	pr		2000-04500 MA		9				
and Cost to Cui			0	x _		Design p		=0			
14. Water Retentio	120		1,041,080	x _	120% (0		/o R/W Acq)	1,249,300	1 2/0 200		
15. SUBTOTAL (104 16. Admin. Settlem			20%	x	EU0/ of	(Lines 13 Line 15)	Q(14) _	149,900	1,249,300		
17. Litigation Awar			45%	х —		Line 15)		224,900			
18. Business Dama			0	` –	0)	Line 10,	_	. 0			
19. Bus. Damages I	Incrs. (Factor		25%	x \$			=	. 0			
20. Owner Appr. Fe	A 1000 March 100	s	1	x _	\$30,000)		=	30,000			
21. Owner CPA Fee	100		0	x _	\$25,000)		=	0			
22. Defend.Atty Fee		ines 16, 17 & 19)	374,800	x _	33%)			123,700			
23. Owner Expert V 24. Other Condemn		.+Unimp.)	0	<u> </u>	0)>	18,000	<u>)</u> =	1 000			
25. SUBTOTAL	. Gusts		1	x _	\$1,000	(Lines 16	thru 24) =	1,000	529,500		
26.						(2000010		TOTAL PHASE 43	020,000		1,778,800
* Design continger	ncy for design pl	an stage:									
BERNSTON OF THE PARTY OF THE PA	E March Courses		60% plans - 110%	6 (4) 90	1% plans -105%	(5) 268 Dat	te -100%			an Cotton - Marine Marine Marine	To all Marketon Conf.
R/W ACQUISITION											
27. Acquisition Cor		rcels	\$20,000	X	0			TOTAL PHASE 42		have been all or the Tab	\$0
RELOCATION COST											
20 0	Replacement Ho	ousing	#05.000		Number		Amount				
28. Owner 29. Tenant			\$25,000 \$25,000	х х	0	=	0				
25. Tollant	Move Costs		φ23,000	^ —	<u> </u>	-					
30. Residential			\$3,000	X	0	=	0				
31. Business/Farm			\$30,000	x _	0	=	0				
32. Personal Prope			\$3,000	x _	0	=	0				
33. (Lines 28 thru 32					00	/N	T . IV	TOTAL PHASE 45			\$0
34. Relocation Ser 35.	vices Cost				\$0	(Not in P	hase Total)				
35. 36.											
37.							(All Phases)	TOTAL ESTIMATE			1,882,800
37. Real Estate:	Roger D.Patton		Signed:	140	MONL			Date:	04/07/24	espera trasser trasser su des	
Bus. Dam. :	Alfred J. Thomp	son	Signed:	-		V. The	ngsm	Date:	04/07/24		
Relocation: Overall Review:	Roger D.Patton	con	Signed:	1	tetion_			Date:	04/07/24		
Overall Keview:	Alfred J. Thomp	SUII	_Signed:		a	y. 11	angen	_ Date:	04/07/24		
Cost Estimate Sequ	ence #:	Dated:		In the	Amount of \$	0	/ [Data Input Completi	on Date:		
REMARKS:											and the start of
The feller in the	ata tha ·		dh- d	A -1				Marine galance and accommodate control of		nave the below to the state of	
The following indic		or's contidence in es the most confid		ite:							1
		es the most confit es above average									
	Type C - indicat	es below average	confidence								
	Type D - indicat	es the least or no	confidence								1
The fellowing in "	otoo the D		Ahin againmi								
The following indic Work Program Upd	ates tne Departr ate:	nent s purpose for	this estimate: Gaming 1:			Special F	ournose.	х	Docs to RW:		
Comments:						opeciai r	- Libose.	^			

			DICTRICT C	EVE	N RIGHT OF W	AV COST	ECTIMATE	2	HDR#:	40075044 2 27
FM#:	447157-1		Alternate:	CVC	FPC 3-2	AT CUST	ESTIMATE	District:	пин.	10375841-2.27 Seven
County:	Hillsboro	uah	Segment:		N/A			District. Date:		25-Mar-24
State Rd.:	SR 600	-3	FAP#:		N/A			C.E. Sequence		N/A
Project Des.		Road From S of US 92	to North of Dickey I	Rd. Po	ond Sites			*		
Parcels	Gross	Net					Estimated Rel	ocatees:	•	
Commercial Residential	0	0					Business Residential		0	
Unimproved	1	1					Signs			
		<u>-</u>					Special			
Total Parcels	1"	1					Total Relocat	ees	0	
R/W SUPPORT CO					25000 2005-1000			Amount		
1. Direct Labor Co		(Parcels	1	X	20,000 =	Rate)		20,000		
2. Indirect Overhe	ead	(Parcels	1	X	=	Rate)		TOTAL PHASE 41		\$20,000
3.					AND LONG LONG THE REAL PROPERTY.	A TRACTOR		TOTAL PHASE 41	Carlotte Contract	\$20,000
R/W OPS (PHASE		esar					Danasla	25.000	Amount	
4. Appraisal Fees 5. Business Dam						1 0	Parcels Claims	x 35,000 = x 25,000 =	35,000 0	
6. Court Reporter			50%	X	1 =	1	E.OFRORNON.	x 500 =	500	
7. Expert Witnes			75%	x	1 =	1	123 U	x 30,000 =	30,000	
8. Mediators			75%	X	1 =	1	Parcels	x 3,500 =	3,500	
9. Demolition, As						0	Section 1	x 20,000 =	0	
10. Miscellaneous 11. Appraisal Fee						1 0	Per Project Parcels	x 15,000 = x 5,000 =	15,000 0	
12.	HEVIEW					U	raiceis	TOTAL PHASE 4B	U	\$84,000
R/W LAND COSTS	/DUACE 40	1					THE RESIDENCE	Company and the state of the st	Cubtotal	401,000
13. Land, Improve								Amount	Subtotal	
and Cost to Cu			0	v	1200/_ *	Design pl	lan etano	= 0		
14. Water Retention			2,007,831	x			o R/W Acq)	2,409,400		
15. SUBTOTAL (23	State of the second of Value	rullu)	2,007,031	X	12070 (0	(Lines 13		2,403,400	2,409,400	
16. Admin. Settler		Factor	20%	x	60% of	Line 15)	Q14)	= 289,100	2,403,400	
17. Litigation Awa		Factor	45%	x		Line 15)		= 433,700		
18. Business Dam		Claims	0	x	0)			= 0		
19. Bus. Damages		Factor	25%	x	\$ -)			= 0		
20. Owner Appr. F	ees (Parcels	1	x	\$30,000)			= 30,000		
21. Owner CPA Fe	es (Claims	0	X	\$25,000)			= 0		
22. Defend.Atty Fe	es (Sum of Lines 16, 17 & 19)	722,800	X	33%)			= 238,500		
23. Owner Expert		Comm.+Unimp.)	0	+	1):	18,000		=18,000		
24. Other Condem	n. Costs		1	X	\$1,000			=1,000		
25. SUBTOTAL						(Lines 16	thru 24)	=	1,010,300	*****
26. * 0 - i								TOTAL PHASE 43		\$3,419,700
1° IJESIAN CONTINAE	ency for des	sign plan stage:								
(1) PD&E pla	ans - 120%	(2) 30% plans - 115%	(3) 60% plans - 1109	% (4)	90% plans -105%	(5) 268 Date	e -100%			
(1) PD&E pla		(2) 30% plans - 115%	(3) 60% plans - 1109	% (4)	90% plans -105%	(5) 268 Date	e -100%		F-301 85 (81)	
(1) PD&E pla	CONSULT	<i>(2) 30% plans - 115% </i> ANT (PHASE 42)	(3) 60% plans - 1109 \$20,000	% (4) x	<i>90% plans -105%</i>	(5) 268 Date	e -100%	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co	I CONSULT Insultant-50	(2) 30% plans - 115% ANT (PHASE 42) % of parcels		to of which		(5) 268 Date	e -100%	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co	I CONSULT Insultant-50 TS (PHASE	(2) 30% plans - 115% ANT (PHASE 42) % of parcels		to of which		(5) 268 Date	e -100% Amount	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner	I CONSULT Insultant-50 TS (PHASE	(Ž) 30% plans - 115% (ANT (PHASE 42) % of parcels 45)		to of which	0 Number 0	(5) 268 Date	Amount 0	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner	I CONSULT Insultant-50 TS (PHASE Replacen	(Ž) 30% plans - 115% (ANT (PHASE 42)) % of parcels 45) nent Housing	\$20,000	x	0 Number	(5) 268 Date	Amount	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant	I CONSULT Insultant-50 TS (PHASE	(Ž) 30% plans - 115% (ANT (PHASE 42)) % of parcels 45) nent Housing	\$20,000 \$25,000 \$25,000	x x x	Number 0 0	(5) 268 Date	Amount 0 0	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential	I CONSULT onsultant-50 TS (PHASE Replacen Move Cos	(Ž) 30% plans - 115% (ANT (PHASE 42)) % of parcels 45) nent Housing	\$20,000 \$25,000 \$25,000 \$3,000	x x x	Number 0 0	U II	Amount 0 0 0	TOTAL PHASE 42		\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm	I CONSULT onsultant-50 TS (PHASE Replacen Move Cos	(Ž) 30% plans - 115% (ANT (PHASE 42)) % of parcels 45) nent Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 0 0 0 0	U II	Amount 0 0 0 0 0 0 0 0	TOTAL PHASE 42		\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Cos RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propi	I CONSULT Insultant-50 TS (PHASE Replacen Move Cos I erty	(Ž) 30% plans - 115% (ANT (PHASE 42)) % of parcels 45) nent Housing	\$20,000 \$25,000 \$25,000 \$3,000	x x x	Number 0 0	U II	Amount 0 0 0			
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm	I CONSULT Insultant-50 TS (PHASE Replacen Move Cos erty 32)	(Ž) 30% plans - 115% (ANT (PHASE 42)) % of parcels 45) nent Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	0 Number 0 0 0		Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 42		\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sec 35.	I CONSULT Insultant-50 TS (PHASE Replacen Move Cos erty 32)	(Ž) 30% plans - 115% (ANT (PHASE 42)) % of parcels 45) nent Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 0 0 0 0		Amount 0 0 0 0 0 0 0 0			
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sei 35. 36.	I CONSULT Insultant-50 TS (PHASE Replacen Move Cos erty 32)	(Ž) 30% plans - 115% (ANT (PHASE 42)) % of parcels 45) nent Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	0 Number 0 0 0		Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Proping 33. (Lines 28 thru 3 34. Relocation Section 35. 36. 37.	I CONSULT Insultant-50 TS (PHASE Replacen Move Cos erty 32)	(Ž) 30% plans - 115% (ANT (PHASE 42)) % of parcels 45) nent Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	0 Number 0 0 0		Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Proping 33. (Lines 28 thru 3 34. Relocation Section 35. 36. 37.	I CONSULT Insultant-50 TS (PHASE Replacen Move Cos I erty 32) rvices Cost	(Ž) 30% plans - 115% (ANT (PHASE 42)) % of parcels 45) nent Housing sts	\$20,000 \$25,000 \$25,000 \$3,000 \$3,000 \$3,000	x x x x	0 Number 0 0 0		Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45	: 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Cor RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propication 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam.:	I CONSULT Insultant-50 TS (PHASE Replacen Move Cos Interpretation Move Cos Interpretation Roger D.F. Alfred J.	(Ž) 30% plans - 115% (ANT (PHASE 42)) % of parcels 45) nent Housing sts	\$20,000 \$25,000 \$25,000 \$3,000 \$3,000 \$3,000	x x x x	0 Number 0 0 0		Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date:	04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sei 35. 36. 37. Real Estate: Bus. Dam. : Relocation:	I CONSULT Insultant-50 TS (PHASE Replacen Move Cos erty 32) rvices Cost Roger D.F. Alfred J. Roger D.F.	(Ž) 30% plans - 115% ANT (PHASE 42) % of parcels 45) nent Housing sts	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x	0 Number 0 0 0	= = = = (Not in Ph	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24	\$0
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(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sei 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq	I CONSULT Insultant-50 TS (PHASE Replacen Move Cos erty 32) rvices Cost Roger D.F Alfred J. Roger D.F Alfred J.	(2) 30% plans - 115% (ANT (PHASE 42)) ANT (PHASE 42) % of parcels 45) ment Housing sts Patton Thompson Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x	0 Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = = (Not in Ph	Amount 0 0 0 0 0 0 0 0 (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$0
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(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sei 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq	I CONSULT Insultant-50 TS (PHASE Replacen Move Cos erty 32) rvices Cost Roger D.F Alfred J. Roger D.F Alfred J.	(2) 30% plans - 115% (ANT (PHASE 42)) ANT (PHASE 42) % of parcels 45) ment Housing sts Patton Thompson Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x	0 Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = = (Not in Ph	Amount 0 0 0 0 0 0 0 0 (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Roger D.F. Alfred J. Roger B.F. Alfred J. uence #:	Patton Thompson Dated:	\$25,000 \$25,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x x x ln th	0 Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = = (Not in Ph	Amount 0 0 0 0 0 0 0 0 (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Roger D.F. Alfred J. Alfred J. uence #:	(2) 30% plans - 115% (ANT (PHASE 42)) ANT (PHASE 42) % of parcels 45) ment Housing sts Patton Thompson Thompson	\$25,000 \$25,000 \$25,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000	x x x x x x ln th	0 Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = = (Not in Ph	Amount 0 0 0 0 0 0 0 0 (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Roger D.F Alfred J. Roger D.F Alfred J. Roger D.F Alfred J. Type B - i	Patton Thompson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x ln th	0 Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = = (Not in Ph	Amount 0 0 0 0 0 0 0 0 (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Roger D.F Alfred J. Roger D.F Alfred J. Roger D.F Alfred J. Type A - i Type B - i Type C - i	(2) 30% plans - 115% (ANT (PHASE 42) % of parcels (45) ment Housing (45) ment Housin	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x ln th	0 Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = = (Not in Ph	Amount 0 0 0 0 0 0 0 0 (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$0
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					ARTMENT OF THE RIGHT OF W				HDR#:	10375841-2.27
FM#:	447157-1		Alternate:	LVL	FPC 4-1	A1 000	LOTIMATE	District:	noim.	Seven
County:	Hillsbor		Segment:		N/A			Date:		25-Mar-24
State Rd.: Project Des.	SR 600	h Dood Erom C of I	FAP#: JS 92 to North of Dickey	ם גם	N/A			C.E. Sequence		N/A
Parcels	Gross	Net	JS 92 to North of Dickey	nu. r	ond Sites		Estimated Relo	ocatees:		
Commercial	0	100					Business		0	
Residential Unimproved	0	1					Residential Signs		0	
Ommproved		<u></u>					Special			
Total Parcels	1	1					Total Relocate	es	0	
R/W SUPPORT CO	OSTS (PHA	SE 41)			The last to all the control of the second			Amount	2	
1. Direct Labor C		(Parcels	1	•	20,000 =			20,000		
2. Indirect Overh	ead	(Parcels	1	. х		Rate	e)	O TOTAL DUACE 44		620.00
3.	4D)			2 to 4 to 5				TOTAL PHASE 41		\$20,00
R/W OPS (PHASE 4. Appraisal Fee		Trial				1	Parcels	x 35,000 =	Amount 35,000	
		ees Through Trial				Ö	200 S	x 25,000 =		
6. Court Reporte		s Servers	50%		=	1		x 500 =		
7. Expert Witnes	SS		75%		=	1		x 30,000 =		
Mediators Demolition, A	sh Ahate	Survey etc	75%	. х	=	1 0		x 3,500 = x 20,000 =		
10. Miscellaneou						1	Per Project			
11. Appraisal Fee	Review					0	Parcels >			
12.								TOTAL PHASE 4	3	\$84,00
R/W LAND COSTS								Amount	Subtotal	
		everance Damage								
and Cost to C			0			* Design p		=0		
14. Water Retenti		(1 Pond)	2,355,728	. х	120%_(v/o R/W Acq)	2,826,900	(a. barrera a	
15. SUBTOTAL (29	to executive real to	(F4-		garan.	222	(Lines 13	3 &14)	000 000	2,826,900	
16. Admin. Settler 17. Litigation Awa	0.000.00.00.00.00	(Factor	<u>20%</u> 45%	•		f Line 15) f Line 15)		= 339,200		
18. Business Dam		(Factor (Claims	45%		0)	TLINE 15)	-	= 508,800		
19. Bus. Damages		(Factor	25%	•	\$ -)		_	= 0		
20. Owner Appr. F		(Parcels	1		\$30,000)		-	= 30,000		
21. Owner CPA Fe		(Claims	0		\$25,000)		=	= 0		
22. Defend.Atty Fe	ees	(Sum of Lines 16, 17 & 1	19) 848,000	x	33%)		=	279,800		
23. Owner Expert	Witness	(Comm.+Unimp.)	0	+	1)	x 18,00	<u>0</u> =	18,000		
24. Other Condem	ın. Costs		1	х	\$1,000		_	= 1,000		
25. SUBTOTAL						(Lines 16	6 thru 24) =		1,176,800	
26.								TOTAL PHASE 43	3	\$4,003,70
" Design continu	ency for a	esign plan stage:								
(1) PD&E pl	ans - 120%	(2) 30% plans - 1	15% (3) 60% plans - 110	1% (4)) 90% plans -105%	(5) 268 Da	te -100%			
(1) PD&E pl.	Appropriate commencer and appropriate	Committee to the first of the committee	15% (3) 60% plans - 110	1% (4,) 90% plans -105%	(5) 268 Da	te -100%			
(1) PD&E pl	N CONSUL	TANT (PHASE 42)				(5) 268 Da	te -100%	TOTAL PHASE 42		S
(1) PD&E pl. R/W ACQUISITION 27. Acquisition Company	N CONSUL onsultant-5	TANT (PHASE 42) 0% of parcels	15% (3) 60% plans - 110 \$20,000	7% <i>(4)</i> x	<i>90% plans -105%</i> 0	(5) 268 Da	te -100%	TOTAL PHASE 42		S
(1) PD&E pl	N CONSUL onsultant-5 STS (PHAS	TANT (PHASE 42) 0% of parcels E 45)				(5) 268 Da		TOTAL PHASE 42		\$
(1) PD&E pl. R/W ACQUISITION 27. Acquisition Co	N CONSUL onsultant-5 STS (PHAS	TANT (PHASE 42) 0% of parcels		x	0	(5) 268 Da	Amount 0	TOTAL PHASE 42	1	\$
(1) PD&E place R/W ACQUISITION 27. Acquisition Con RELOCATION COS	N CONSUL onsultant-5 STS (PHAS Replace	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000	x	0 Number	(5) 268 Da	Amount	TOTAL PHASE 42	1	s
(1) PD&E pl. R/W ACQUISITION 27. Acquisition Cos RELOCATION COS 28. Owner 29. Tenant	N CONSUL onsultant-5 STS (PHAS	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000	x x x	0 Number 0	=	Amount 0 0	TOTAL PHASE 42		\$
(7) PD&E pl. R/W ACQUISITION 27. Acquisition Cos RELOCATION COS 28. Owner 29. Tenant 30. Residential	N CONSUL onsultant-5 STS (PHAS Replace Move Co	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000	x . x . x	Number 0 0	= =	Amount 0 0	TOTAL PHASE 42		S
(1) PD&E pl. R/W ACQUISITION 27. Acquisition Cos RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn	N CONSUL onsultant-5 STS (PHAS Replace Move Co	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x x x	Number 0 0 0	= =	Amount 0 0 0 0 0 0 0 0	TOTAL PHASE 42		S
(7) PD&E pl. R/W ACQUISITION 27. Acquisition Cos RELOCATION COS 28. Owner 29. Tenant 30. Residential	N CONSUL onsultant-5 STS (PHAS Replace Move Co n nerty	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000	x x x x x	Number 0 0	= =	Amount 0 0			
(1) PD&E pl. R/W ACQUISITION 27. Acquisition Con RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop	N CONSUL onsultant-5 STS (PHAS Replace Move Co n nerty 32)	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x x x	Number 0 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 42		\$
(1) PD&E pl. R/W ACQUISITION 27. Acquisition Cos 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35.	N CONSUL onsultant-5 STS (PHAS Replace Move Co n nerty 32)	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x x x	0 Number 0 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0			
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(1) PD&E pl. R/W ACQUISITION 27. Acquisition Cor RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37.	N CONSUL onsultant-5 STS (PHAS Replace Move Co n erty 32) ervices Cos	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x x x	0 Number 0 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
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(1) PD&E pl. R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. :	N CONSUL onsultant-5 STS (PHAS Replace Move Co n perty 32) ervices Cos	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x x	0 Number 0 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date:	E 04/07/24 04/07/24	\$
(1) PD&E pl. R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation:	M CONSUL onsultant-5 STS (PHAS Replace Move Con erry 32) ervices Cos Roger D Alfred J Roger D	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000	x x x x x	0 Number 0 0 0	= = = = (Not in F	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date:	6 E 04/07/24 04/07/24 04/07/24	\$
(1) PD&E pl. R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. :	M CONSUL onsultant-5 STS (PHAS Replace Move Con erry 32) ervices Cos Roger D Alfred J Roger D	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x x	0 Number 0 0 0	= = = = (Not in F	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date:	E 04/07/24 04/07/24	\$
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					ARTMENT OF T N RIGHT OF W				HDR#:	10375841-2.27	
FM#:	447157-1		Alternate:		FPC 4-2			District:		Seven	
County:	Hillsbor	ough	Segment:		N/A			Date:		25-Mar-24	
State Rd.:	SR 600	397	FAP#:		N/A			C.E. Sequence		N/A	
Project Des.		sh Road From S of US 92	to North of Dickey	Rd. Po	ond Sites		Te de la la la				
Parcels	Gross	Net					Estimated Relo	ocatees:	2		
Commercial Residential	(Business Residential		3		
Unimproved							Signs				
Ommproveu		<u> </u>					Special		0		
Total Parcels	1	. 2					Total Relocate	es	3		
R/W SUPPORT CO	OCTC /DUA	Total of a literature of a				entrates (and	Total Holocata	the second section of the second section is	AND STARTS OF STREET	THE STREET STREET	NEW AND STANSON
1. Direct Labor C	COCCUPATION OF THE CONTRACT	(Parcels	2		20,000 =	Rate		Amount 40,000			
2. Indirect Overh		(Parcels	2	X	20,000 =	Rate		40,000			
The second secon	leau	(Faiceis		Х	=	nate	ļ.	TOTAL DUACE 44			¢40.000
3.		VIEW CONTRACTOR OF THE PARTY OF	TOTAL OF STREET					TOTAL PHASE 41	Control to the Section of the Sectio	about the second second	\$40,000
R/W OPS (PHASE									Amount		
4. Appraisal Fee						2		x 35,000 =	70,000		
		Fees Through Trial				0		x 25,000 =	0		
6. Court Reporte		ss Servers	50%	X	=	1		x 500 =	500		
7. Expert Witnes	SS		75%	X	=	2		x 30,000 =	60,000		
8. Mediators		-	75%	X	=	2		x 3,500 =	7,000		
9. Demolition, A						3		x 20,000 =	60,000		
10. Miscellaneou	//	ts				1	Per Project		15,000		
11. Appraisal Fee	Review					1	Parcels	5,000 =	5,000		0007
12.		resource and an area			- Contract C	CALL DE LA COLONIA DE LA C	-	TOTAL PHASE 4B			\$217,500
R/W LAND COSTS	S (PHASE	13)						Amount	Subtotal		
I .		Severance Damages									
and Cost to C		and the property of the company of the second	0	х	120% *	Design p	lan stane -	= 0			
14. Water Retenti			7,181,800	X		E 15	o R/W Acq)	8,618,200			
15. SUBTOTAL (3)		(· · · · · · · · · · · · · · · · · · ·	7,101,000	^	120% (0			0,010,200	0 540 200		
The State of Court State of		(Easta-	0001	p	000/	(Lines 13	X14)	4 004 000	8,618,200		
16. Admin. Settle		(Factor	20%	х		Line 15)	-	1,034,200			
17. Litigation Aw		(Factor	45%	X		Line 15)	-	1,551,300			
18. Business Dan		(Claims	0	X	0)		=	=0			
19. Bus. Damages	s Incrs.	(Factor	25%	X	\$ - 1		=	=0			
20. Owner Appr. I	Fees	(Parcels	2	X	\$30,000)		-	= 60,000			
21. Owner CPA Fo	ees	(Claims	0	X	\$25,000)		-	= 0			
22. Defend.Atty F	ees	(Sum of Lines 16, 17 & 19)	2,585,500	X	33%)			= 853,200			
23. Owner Expert	t Witness	(Comm.+Unimp.)	1	+	1):	18,000		36,000			
24. Other Conden		1	2	x	\$1,000			= 2,000			
25. SUBTOTAL					41,000	(Lines 16	thru 24) =		3,536,700		
26.						(Lines to	unu 24/ -	TOTAL PHASE 43	0,000,700	\$1	2,154,900
1	ronau far d	esign plan stage:						TOTAL THASE 43		ΨΙ	2,134,300
		6 (2) 30% plans - 115%	/21 600/ plane 110	0/ (#1		/EL 000 D					
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North Control of Contr	photos in the part of the second	THE RESIDENCE TO SHARE THE PARTY OF THE PART	(3) 00% pians - 110	% [4]	90% plans -105%	(5) 268 Dat	e -100%				
R/W ACQUISITION	N CONSUL	TANT (PHASE 42)		% (4)		(5) 268 Dat	e -100%				
R/W ACQUISITION	N CONSUL	TANT (PHASE 42)	\$20,000	% (4) X	90% plans -105%	(5) 268 Dat	e -100%	TOTAL PHASE 42			\$0
R/W ACQUISITION	N CONSUL onsultant-	TANT (PHASE 42) 50% of parcels				(5) 268 Dat	e -100%	TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition C	N CONSUL Consultant-S STS (PHAS	TANT (PHASE 42) 50% of parcels E 45)				(5) 268 Dat		TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition C	N CONSUL Consultant-S STS (PHAS	TANT (PHASE 42) 50% of parcels	\$20,000	x	0 Number	(5) 268 Date	Amount	TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition C RELOCATION COS	N CONSUL Consultant-S STS (PHAS	TANT (PHASE 42) 50% of parcels E 45)	\$20,000 \$25,000	x	Number 0		Amount 0	TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner	N CONSUL consultant-5 STS (PHAS Replace	TANT (PHASE 42) 50% of parcels E 45) ement Housing	\$20,000	x	0 Number		Amount	TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant	N CONSUL Consultant-S STS (PHAS	TANT (PHASE 42) 50% of parcels E 45) ement Housing	\$20,000 \$25,000 \$25,000	x x x	Number 0 0	= =	Amount 0 0	TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner	N CONSUL consultant-S STS (PHAS Replace Move C	TANT (PHASE 42) 50% of parcels E 45) ement Housing	\$20,000 \$25,000 \$25,000 \$3,000	x	0 Number 0 0	= =	Amount 0 0 0	TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr	N CONSUL consultant-S STS (PHAS Replace Move C	TANT (PHASE 42) 50% of parcels E 45) ement Housing	\$20,000 \$25,000 \$25,000 \$3,000	x x x	0 Number 0 0 0 0 0 0 3		Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 42			\$0
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop	N CONSUL Consultant-E STS (PHAS Replace Move Co m perty	TANT (PHASE 42) 50% of parcels E 45) ement Housing	\$20,000 \$25,000 \$25,000 \$3,000	x x x	0 Number 0 0	= =	Amount 0 0 0				
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R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se	N CONSUL Consultant-E STS (PHAS Replace Move Com perty 32)	TANT (PHASE 42) 60% of parcels E 45) ement Housing	\$20,000 \$25,000 \$25,000 \$3,000	x x x	0 Number 0 0 0 0 0 0 3		Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35.	N CONSUL Consultant-E STS (PHAS Replace Move Com perty 32)	TANT (PHASE 42) 60% of parcels E 45) ement Housing	\$20,000 \$25,000 \$25,000 \$3,000	x x x	0 Number 0 0 0		Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36.	N CONSUL Consultant-E STS (PHAS Replace Move Com perty 32)	TANT (PHASE 42) 60% of parcels E 45) ement Housing	\$20,000 \$25,000 \$25,000 \$3,000	x x x	0 Number 0 0 0		Amount 0 0 0 0 90,000 0 nase Total)	TOTAL PHASE 45			\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36.	N CONSUL Consultant-E STS (PHAS Replace Move Com perty 32) ervices Cos	TANT (PHASE 42) 50% of parcels E 45) ement Housing osts	\$20,000 \$25,000 \$25,000 \$3,000	x x x	0 Number 0 0 0		Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			\$1	
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate:	N CONSUL Consultant-S STS (PHAS Replace Move Com perty 32) ervices Cos	TANT (PHASE 42) 50% of parcels E 45) ement Housing osts	\$20,000 \$25,000 \$25,000 \$3,000	x x x	0 Number 0 0 0		Amount 0 0 0 0 90,000 0 nase Total)	TOTAL PHASE 45	04/07/24	\$1	\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37.	M CONSUL Consultant-S STS (PHAS Replace Move Com perty 32) ervices Cos Alfred J	TANT (PHASE 42) 50% of parcels E 45) ement Housing osts Patton Thompson	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x	0 Number 0 0 0 0 0 3 3 0 0 \$9,000		Amount 0 0 0 0 90,000 0 nase Total)	TOTAL PHASE 45	STATE OF THE PARTY OF THE PARTY OF THE PARTY.	\$1	\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation:	M CONSUL Consultant-S STS (PHAS Replace Move Com perty 32) ervices Com Alfred J Roger D	.TANT (PHASE 42) 50% of parcels EE 45) ement Housing osts .Patton . Thompson .Patton	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x	0 Number 0 0 0 0 0 3 3 0 0 \$9,000		Amount 0 0 0 0 90,000 0 nase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date:	04/07/24 04/07/24 04/07/24	\$1	\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. :	M CONSUL Consultant-S STS (PHAS Replace Move Com perty 32) ervices Com Alfred J Roger D	TANT (PHASE 42) 50% of parcels E 45) ement Housing osts Patton Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x	0 Number 0 0 0 0 0 3 3 0 0 \$9,000		Amount 0 0 0 0 90,000 0 nase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date:	04/07/24 04/07/24	\$1	\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review:	M CONSUL Consultant-S STS (PHAS Replace Move Com perty 32) ervices Cos Alfred J Roger D Alfred J	Patton Thompson Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	0 Number 0 0 0 3 0 \$9,000		Amount 0 0 90,000 0 mase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$1	\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review:	M CONSUL Consultant-S STS (PHAS Replace Move Com perty 32) ervices Cos Alfred J Roger D Alfred J	.TANT (PHASE 42) 50% of parcels EE 45) ement Housing osts .Patton . Thompson .Patton	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	0 Number 0 0 0 0 0 3 3 0 0 \$9,000		Amount 0 0 90,000 0 mase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$1	\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sec	M CONSUL Consultant-S STS (PHAS Replace Move Com perty 32) ervices Cos Alfred J Roger D Alfred J	Patton Thompson Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	0 Number 0 0 0 3 0 \$9,000		Amount 0 0 90,000 0 mase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$1	\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review:	M CONSUL Consultant-S STS (PHAS Replace Move Com perty 32) ervices Cos Alfred J Roger D Alfred J	Patton Thompson Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	0 Number 0 0 0 3 0 \$9,000		Amount 0 0 90,000 0 mase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$1	\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sec	M CONSUL Consultant-S STS (PHAS Replace Move Com perty 32) ervices Cos Alfred J Roger D Alfred J	Patton Thompson Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	0 Number 0 0 0 3 0 \$9,000		Amount 0 0 90,000 0 mase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$1	\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sec	M CONSUL Consultant-S STS (PHAS Replace Move Com perty 32) ervices Cos Alfred J Roger D Alfred J	Patton Thompson Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	0 Number 0 0 0 3 0 \$9,000		Amount 0 0 90,000 0 mase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$1	\$90,000
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R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Set REMARKS:	M CONSULTANT STREET OF THE PROPERTY STREET STR	Patton Thompson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x ln th	0 Number 0 0 0 3 0 \$9,000		Amount 0 0 90,000 0 mase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$1	\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Set REMARKS:	M CONSUL Consultant-E Consultant-E Consultant-E Consultant-E Replace Move Consultant Perty 32) Pervices Consultant Roger D Alfred J Roger D Roge	Patton Thompson	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x ln th	0 Number 0 0 0 3 0 \$9,000		Amount 0 0 90,000 0 mase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$1	\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sec REMARKS:	M CONSUL Consultant-E Consultant-E Consultant-E Consultant-E Replace Move Consultant Perty 32) Pervices Consultant Roger D Alfred J Roger D Roge	Patton Thompson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x ln th	0 Number 0 0 0 3 0 \$9,000		Amount 0 0 90,000 0 mase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$1	\$90,000
R/W ACQUISITION 27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sec REMARKS:	M CONSUL Consultant-E Consultant-E Consultant-E Consultant-E Replace Move Consultant Perty 32) Pervices Consultant Roger D Alfred J Roger D Roge	Patton Thompson	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x ln th	0 Number 0 0 0 3 0 \$9,000		Amount 0 0 90,000 0 mase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$1	\$90,000
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					ARTMENT OF T N RIGHT OF W				HDR#:	10375841-2.27
FM#:	447157-1		Alternate:	LVL	FPC 5-1	AT 6031	LOTHVIATE	District:	попя.	Seven
County:	Hillsboroug	h	Segment:		N/A			Date:		25-Mar-24
State Rd.:	SR 600		FAP#:		N/A			C.E. Sequence		N/A
Project Des.		oad From S of US 92 t	o North of Dickey F	Rd. P	ond Sites		Estimated Rel			
Parcels Commercial	Gross	Net 0					Business	ocatees.	0	
Residential	2	2					Residential		2	
Unimproved	0	0					Signs		0	
Total Paragla]	2					Special Total Relocate	100	0 2	
Total Parcels	2	NAMED OF TAXABLE PARTY OF TAXABLE	MARKET PROPERTY.	Total Control		and the second	Total helocate	the state of the state of the state of the state of		A CONTRACTOR OF THE STATE OF THE
R/W SUPPORT COS 1. Direct Labor Co		(Parcels	2	~	20,000 =	Rate	1	Amount 40,000		
2. Indirect Overhe		(Parcels	2	X	0 =	Rate		0		
3.		,,						TOTAL PHASE 41		\$40,000
R/W OPS (PHASE 4	4B)	en lind for the same of the seattle of the	Colonidate de Calcinia de Care o	Walter S.	TO SERVICE TO SELECT SECURE	A STATE OF THE STA	Control of the State of the Sta	THE STATE OF THE STATE OF	Amount	
4. Appraisal Fees		al				2	Parcels	x 35,000 =	70,000	
5. Business Dama						0		x 25,000 =	0	
6. Court Reporter		ervers	50%	X	=	1		x 500 =	500	
7. Expert Witness 8. Mediators	S		75% 75%	X	2 =	2		x 30,000 = x 3,500 =	60,000 7,000	
9. Demolition, As	b. Abate Su	rvev. etc.	7370	^		3		x 20,000 =	60,000	
10. Miscellaneous		,,				1		x 15,000 =	15,000	
11. Appraisal Fee	Review					1	Parcels :	x 5,000 =	5,000	
12.	Tarres -						Company of the law of	TOTAL PHASE 4B		\$217,500
R/W LAND COSTS								Amount	Subtotal	
13. Land, Improver		erance Damages								
and Cost to Cu			0	X		Design p	-	=0		
14. Water Retention		ond)	805,202	X	120% (0		/o R/W Acq)	966,200	000 000	
15. SUBTOTAL (80,			2007		C00/	(Lines 13	&14)	445.000	966,200	
16. Admin. Settlen		ector	20%	X		Line 15)	,	= 115,900		
17. Litigation Awa 18. Business Dama		actor aims	45%	X	0)	Line 15)		= <u>173,900</u> = 0		
19. Bus. Damages	77	actor	25%	x	\$ -)			= 0		
20. Owner Appr. Fo		arcels	25/6	x	\$30,000)			60,000		
21. Owner CPA Fe		laims		x	\$25,000)			0		
22. Defend.Atty Fe		m of Lines 16, 17 & 19)	289,800	X	33%)			95,600		
23. Owner Expert		omm.+Unimp.)	0	+	0):	18,000) :	= 0		
24. Other Condemi	n. Costs		2	x	\$1,000		- ,	2,000		
25. SUBTOTAL						(Lines 16	thru 24)		447,400	
26.								TOTAL PHASE 43		\$1,413,600
* Design continge		gn plan stage: ?) 30% plans - 115% (.	2) 60% plans 110	1/ //	00% plans 105%	/El 260 Das	to 1000/			
STATE OF STREET	Approximately and the	/ 30% pians - 113%	o/ OU/O PIAIIS - I IU/	0 14/	30 % pialis -103 %					
		NT (DUACE 40)	THE RESERVE AND ADDRESS.	er a venta	TO THE PARTY OF THE	5) 200 Dat	e -100%			CONTRACTOR OF THE PROPERTY OF
R/W ACQUISITION						(5) 200 Dat	e -100%	TOTAL PHASE 42		\$0
27. Acquisition Co	nsultant-50%	of parcels	\$20,000	х	0	(5) 200 Dat	e -100%	TOTAL PHASE 42		\$0
	nsultant-50% TS (PHASE 4	of parcels 5)		х	0	(5) E00 Dat		TOTAL PHASE 42		\$0
27. Acquisition Co	nsultant-50%	of parcels 5)	\$20,000		0 Number		Amount	TOTAL PHASE 42		\$0
27. Acquisition Co RELOCATION COS [*] 28. Owner	nsultant-50% TS (PHASE 4	of parcels 5)	\$20,000 \$25,000	x	0 Number 2	= =		TOTAL PHASE 42		\$0
27. Acquisition Co	nsultant-50% TS (PHASE 4	of parcels 5) nt Housing	\$20,000		0 Number	=	Amount 50,000	TOTAL PHASE 42		\$0
27. Acquisition Co RELOCATION COS [*] 28. Owner	TS (PHASE 4 Replaceme	of parcels 5) nt Housing	\$20,000 \$25,000	x	0 Number 2	=	Amount 50,000	TOTAL PHASE 42		\$0
27. Acquisition Co RELOCATION COS [*] 28. Owner 29. Tenant 30. Residential 31. Business/Farm	nsultant-50% TS (PHASE 4 Replaceme Move Costs	of parcels 5) nt Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 2 0 2 0 0	= =	Amount 50,000 0	TOTAL PHASE 42		\$0
27. Acquisition Co RELOCATION COS [*] 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope	nsultant-50% TS (PHASE 4 Replaceme Move Costs	of parcels 5) nt Housing	\$20,000 \$25,000 \$25,000 \$3,000	x x	Number 2 0	= =	Amount 50,000 0			
27. Acquisition Co RELOCATION COS [*] 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3	TS (PHASE 4: Replaceme Move Costs I erty 32)	of parcels 5) nt Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	0 Number 2 0 2 0 2 0 0		Amount 50,000 0 0 6,000 0	TOTAL PHASE 42		\$0 \$56,000
27. Acquisition Co RELOCATION COS [*] 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser	TS (PHASE 4: Replaceme Move Costs I erty 32)	of parcels 5) nt Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 2 0 2 0 0		Amount 50,000 0			
27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propersonal	TS (PHASE 4: Replaceme Move Costs I erty 32)	of parcels 5) nt Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	0 Number 2 0 2 0 2 0 0		Amount 50,000 0 0 6,000 0			
27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Properties 33. (Lines 28 thru 3 34. Relocation Ser 35.	TS (PHASE 4: Replaceme Move Costs I erty 32)	of parcels 5) nt Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	0 Number 2 0 2 0 2 0 0		Amount 50,000 0 0 6,000 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45		\$56,000
27. Acquisition Co RELOCATION COS ² 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37.	nsultant-50% TS (PHASE 4: Replaceme Move Costs erty 32) rvices Cost	of parcels 5) nt Housing	\$20,000 \$25,000 \$25,000 \$30,000 \$30,000	x x x x	0 Number 2 0 2 0 0 \$5,600		Amount 50,000 0 0 6,000 0	TOTAL PHASE 45	E	
27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Properties 33. (Lines 28 thru 3 34. Relocation Ser 35.	TS (PHASE 4: Replaceme Move Costs I erty 32)	of parcels 5) nt Housing 5	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x x	0 Number 2 0 2 0 0 \$5,600	= = = = = (Not in P	Amount 50,000 0 0 6,000 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45		\$56,000
27. Acquisition Co RELOCATION COS* 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate:	TS (PHASE 4: Replaceme Move Costs erty 32) rvices Cost Roger D.Pa Alfred J. Tr Roger D.Pa	of parcels 5) nt Housing 6 tton compson tton	\$20,000 \$25,000 \$25,000 \$30,000 \$30,000	x x x x	0 Number 2 0 2 0 0 \$5,600		Amount 50,000 0 0 6,000 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date:	E 04/07/24 04/07/24 04/07/24	\$56,000
27. Acquisition Co RELOCATION COS* 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. :	TS (PHASE 4: Replaceme Move Costs erty 32) rvices Cost Roger D.Pa	of parcels 5) nt Housing 6 tton compson tton	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x	0 Number 2 0 2 0 0 \$5,600	= = = = = (Not in P	Amount 50,000 0 0 6,000 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date:	E 04/07/24 04/07/24	\$56,000
27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review:	Roger D.Pa Alfred J. Th	of parcels 5) Int Housing tton Iompson Itton Iompson Iompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3igned: Signed: Signed: Signed:	x x x x	0 Number 2 0 2 0 0 \$5,600	= = = = = (Not in P	Amount 50,000 0 0 6,000 0 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$56,000
27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation:	Roger D.Pa Alfred J. Th	of parcels 5) nt Housing 6 tton compson tton	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3igned: Signed: Signed: Signed:	x x x x	0 Number 2 0 2 0 0 \$5,600	= = = = = (Not in P	Amount 50,000 0 0 6,000 0 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$56,000
27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ	Roger D.Pa Alfred J. Th	of parcels 5) Int Housing tton Iompson Itton Iompson Iompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3igned: Signed: Signed: Signed:	x x x x	0 Number 2 0 2 0 0 \$5,600	= = = = = (Not in P	Amount 50,000 0 0 6,000 0 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$56,000
27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequence REMARKS:	Replaceme Move Costs I erty 32) rvices Cost Roger D.Pa Alfred J. Th Roger D.Pa Alfred J. Th uence #:	of parcels 5) Int Housing tton Impson Iton Impson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x x lntt	0 Number 2 0 2 0 0 \$5,600	= = = = = (Not in P	Amount 50,000 0 0 6,000 0 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$56,000
27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequence REMARKS:	Replaceme Move Costs I erty 32) rvices Cost Roger D.Pa Alfred J. Th Roger D.Pa Alfred J. Th uence #:	of parcels 5) Int Housing tton compson tton compson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000	x x x x x lntt	0 Number 2 0 2 0 0 \$5,600	= = = = = (Not in P	Amount 50,000 0 0 6,000 0 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$56,000
27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequence REMARKS:	Roger D.Pa Alfred J. Th The control of	of parcels 5) Int Housing tton compson tton compson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed:	x x x x x lntt	0 Number 2 0 2 0 0 \$5,600	= = = = = (Not in P	Amount 50,000 0 0 6,000 0 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$56,000
27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequence REMARKS:	Roger D.Pa Alfred J. Th The control of	of parcels 5) Int Housing tton compson tton compson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x lntt	0 Number 2 0 2 0 0 \$5,600	= = = = = (Not in P	Amount 50,000 0 0 6,000 0 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$56,000
27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequence REMARKS:	Roger D.Pa Alfred J. Tr Type B - int Type B - int Type D - int	tton tompson timator's confidence dicates the most confidence dicates the waverage dicates below average dicates dic	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed:	x x x x x lntt	0 Number 2 0 2 0 0 \$5,600	= = = = = (Not in P	Amount 50,000 0 0 6,000 0 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$56,000

				FLORIDA I DISTRICT S			OE W		T ECTINANT	=	HDR#:	40075044 0 07	
FM#:	447157-				LVL	FPC 5-2	OF 44	AT COS	LOTIVIATI	District:	ПDП#.	10375841-2.27 Seven	
County:	Hillsbor			Alternate: Segment:		N/A				District:		25-Mar-24	
State Rd.:	SR 600	ougn		FAP#:		N/A				C.E. Sequence		N/A	
Project Des.		sh Road From S of	US 92 to 1	North of Dickey I	Rd. Po	ond Sites				(2000) 100 (100 (100 (100 (100 (100 (100 (
Parcels	Gross	Net							Estimated Re	locatees:			
Commercial Residential		0 0							Business		1		1
Unimproved		0							Residential Signs				l
Ommproved									Special				
Total Parcels	1	ı" 1							Total Relocat	ees	1		
R/W SUPPORT CO	STS (PHA	SE 41)								Amount			
1. Direct Labor Co		(Parcels	· .	1	x	2	= 0000	Rate		20,000			
2. Indirect Overhe	ead	(Parcels		1	X		=	Rate)	0			400.000
3.				was the state of the state of				V CUSTANCE IN		TOTAL PHASE 4			\$20,000
R/W OPS (PHASE		_ = = =									Amount		
4. Appraisal Fees								1	Parcels	x 35,000 =			
 Business Dam Court Reporter 			I	50%	v	1		0	Claims Parcels	x 25,000 = x 500 =			
7. Expert Witnes		55 3EIVEIS	1-	75%	X X	1		1	Parcels	x 30,000			1
8. Mediators			-	75%	x	1		1	Parcels	x 3,500 =			- 1
9. Demolition, As								2	Imprvmet	x 20,000 =			1
10. Miscellaneous		ts						1	Per Project				- 1
11. Appraisal Fee	Review							0	Parcels	x 5,000 =			\$424.000
12.		Company where we produce the			erical (in)				Called a grant beautiful to	TOTAL PHASE 4	Principles of the Control of States		\$124,000
R/W LAND COSTS	• m secretarian									Amount	Subtotal		1
13. Land, Improve		3	es	_						_			- 1
and Cost to Cu			-	0	X			Design p		=0			
14. Water Retention		(1 Pond)	0-	2,577,704	X		120 % (0		/o R/W Acq)	3,093,200	0.000.000		- 1
15. SUBTOTAL (72 16. Admin. Settler	8 8	/Factor		200/	-		C00/ -	(Lines 13	&14)	274 200	3,093,200		
17. Litigation Awa		(Factor (Factor	:-	20% 45%	X			f Line 15) f Line 15)		= 371,200 = 556,800			1
18. Business Dam		(Claims		0	X		0)	Lille 15)		= 556,600			1
19. Bus. Damages		(Factor	20	25%	X X	\$	-)			= 0			l
20. Owner Appr. F		(Parcels		1	X		(000,00			= 30,000			- 1
21. Owner CPA Fe		(Claims		0	x		5,000)			= 0,000			- 1
22. Defend.Atty Fe		(Sum of Lines 16, 17 &	. 19)	928,000	x		33%)			= 306,200			- 1
23. Owner Expert		(Comm.+Unimp.)		1	+		0):	x 18,00	0	= 18,000			1
24. Other Condem	n. Costs	**************************************		1	x	\$	1,000		_	= 1,000			- 1
25. SUBTOTAL			-					(Lines 16	thru 24)	=	1,283,200		
26.										TOTAL PHASE 4	3	\$	4,376,400
* Design continge		lesign plan stage:											
	200 1200	/ /21 200/ plane	1150/ /21	C00/ plana 110	0/ //1	000/ -1	1050/	/EL 200 Da	1000/				- 1
(1) PD&E pla		6 (2) 30% plans - 1		60% plans - 1109	% (4)	90% plans	-105%	(5) 268 Da	te -100%				
(1) PD&E pla R/W ACQUISITION	CONSU	TANT (PHASE 42)		Maria Cara Maria S		90% plans	ing participation	(5) 268 Da	te -100%	TOTAL DUACE A	2		60
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co	I CONSUI onsultant-!	TANT (PHASE 42) 50% of parcels		60% plans - 1109 \$20,000	% (4) ×	90% plans	<i>-105%</i> 0	(5) 268 Da	te -100%	TOTAL PHASE 4	2		\$0
(1) PD&E pla R/W ACQUISITION	I CONSUI onsultant-! TS (PHAS	TANT (PHASE 42) 50% of parcels SE 45)		Maria Cara Maria S			0	(5) 268 Da		TOTAL PHASE 4	2		\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS	I CONSUI onsultant-! TS (PHAS	TANT (PHASE 42) 50% of parcels		\$20,000	x		0 mber		Amount	"	2		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner	I CONSUI onsultant-! TS (PHAS	TANT (PHASE 42) 50% of parcels SE 45)		\$20,000 \$25,000	x		0 mber 0	(5) 268 Da	Amount 0	-	2		\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS	I CONSUI onsultant-! TS (PHAS Replace	.TANT (PHASE 42) 50% of parcels SE 45) ement Housing		\$20,000	x		0 mber		Amount	-	2		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner	I CONSUI onsultant-! TS (PHAS	.TANT (PHASE 42) 50% of parcels SE 45) ement Housing		\$20,000 \$25,000	x		0 mber 0		Amount 0	-	2		\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm	I CONSUI onsultant-t TS (PHAS Replace Move C	.TANT (PHASE 42) 50% of parcels SE 45) ement Housing		\$20,000 \$25,000 \$25,000	x x x		0 mber 0 0		Amount 0	-	2		\$0
(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop	I CONSUI onsultant-t TS (PHAS Replace Move C	.TANT (PHASE 42) 50% of parcels SE 45) ement Housing		\$20,000 \$25,000 \$25,000 \$3,000	x x x		0 mber 0 0	= =	Amount 0 0				\$0
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3	I CONSUI onsultant-t TS (PHAS Replace Move C n erty 32)	TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts		\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Nu	0 0 0 0 1 0	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				\$0
(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se	I CONSUI onsultant-t TS (PHAS Replace Move C n erty 32)	TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts		\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Nu	0 mber 0 0	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35.	I CONSUI onsultant-t TS (PHAS Replace Move C n erty 32)	TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts		\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Nu	0 0 0 0 1 0	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36.	I CONSUI onsultant-t TS (PHAS Replace Move C n erty 32)	TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts		\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Nu	0 0 0 0 1 0	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 4	5		\$30,000
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R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate:	I CONSUITANT STATE OF THE PROPERTY OF THE PROP	TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts		\$20,000 \$25,000 \$25,000 \$3,000 \$3,000 \$3,000	x x x	Nu	0 0 0 0 1 0	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 4	5 E 04/07/24	3	\$30,000
(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. :	I CONSUI onsultant-I TS (PHAS Replace Move C n erty 32) rvices Co	TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts st		\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x	Nu	0 0 0 0 1 0	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 4: TOTAL ESTIMAT Date: Date:	5 E 04/07/24 04/07/24	3	\$30,000
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate:	Move C Move C retty 32) Roger D Alfred J Roger D	TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts st		\$20,000 \$25,000 \$25,000 \$3,000 \$3,000 \$3,000	x x x	Nu	0 0 0 0 1 0	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 4	5 E 04/07/24		\$30,000
(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review:	I CONSUITOR SUITOR SUIT	.TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts st .Patton . Thompson . Thompson		\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed:	x x x x x	Nu	0 mber 0 0 1 0 3,000	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 4 TOTAL ESTIMAT Date: Date: Date: Date:	5 E 04/07/24 04/07/24 04/07/24 04/07/24		\$30,000
(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation:	I CONSUITOR SUITOR SUIT	.TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts st .Patton . Thompson . Thompson		\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed:	x x x x x x	Nu	0 mber 0 0 1 0 3,000	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 4 TOTAL ESTIMAT Date: Date: Date:	5 E 04/07/24 04/07/24 04/07/24 04/07/24		\$30,000
(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review:	I CONSUITOR SUITOR SUIT	.TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts st .Patton . Thompson . Thompson		\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed:	x x x x x x	Nu	0 mber 0 0 1 0 3,000	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 4 TOTAL ESTIMAT Date: Date: Date: Date:	5 E 04/07/24 04/07/24 04/07/24 04/07/24		\$30,000
(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq	I CONSUITOR SUITOR SUIT	.TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts st .Patton . Thompson . Thompson		\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed:	x x x x x x	Nu	0 mber 0 0 1 0 3,000	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 4 TOTAL ESTIMAT Date: Date: Date: Date:	5 E 04/07/24 04/07/24 04/07/24 04/07/24		\$30,000
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(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq	I CONSUITOR SUITOR SUIT	.TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts st .Patton . Thompson . Thompson		\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed:	x x x x x x	Nu	0 mber 0 0 1 0 3,000	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 4 TOTAL ESTIMAT Date: Date: Date: Date:	5 E 04/07/24 04/07/24 04/07/24 04/07/24		\$30,000
(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq	I CONSUITOR SUITOR SUIT	.TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts st .Patton . Thompson . Thompson		\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed:	x x x x x x	Nu	0 mber 0 0 1 0 3,000	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 4 TOTAL ESTIMAT Date: Date: Date: Date:	5 E 04/07/24 04/07/24 04/07/24 04/07/24		\$30,000
(7) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq	I CONSUITOR SUITOR SUIT	.TANT (PHASE 42) 50% of parcels SE 45) ement Housing osts st .Patton . Thompson . Thompson		\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed:	x x x x x x	Nu	0 mber 0 0 1 0 3,000	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 4 TOTAL ESTIMAT Date: Date: Date: Date:	5 E 04/07/24 04/07/24 04/07/24 04/07/24		\$30,000
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EM#.	AA7457.6			EVE	N RIGHT OF W	41 CO21	ESTIMATE	Dietriet	HDR#:	10375841-2.27 Seven
FM#: County:	447157-1 Hillsboro		Alternate: Segment:		SMF 1 & 7-1 N/A			District: Date:		Seven 25-Mar-24
State Rd.:	SR 600	ag.i	FAP#:		N/A			C.E. Sequence		N/A
Project Des.		Road From S of US 92 t	o North of Dickey F	Rd. P	ond Sites					
Parcels Commercial	Gross 0	Net 0					Estimated Rel	ocatees:	0	
Residential	0	0					Residential		0	
Unimproved	1	1					Signs		0	
Tetal Dove ele							Special Total Relocate		0	
Total Parcels	1	1	SERVICE SERVICE SERVICES				Total Relocate	Application with the second	U	and the second telephone and the second
R/W SUPPORT COS		(Parcels	1	v	20,000 =	Rate)		Amount 20,000		
2. Indirect Overhe		(Parcels	1	x	20,000 =	Rate)		20,000		
		(· a				,		TOTAL PHASE 41		\$20,000
3. R/W OPS (PHASE 4	4B)	SWEETINGS OF THE CLASSIC CONTRACT				the And DePrivated Street Private Priv		Parada kantar nam	Amount	
4. Appraisal Fees	S Through "					1	Parcels	x 35,000 =	35,000	
5. Business Dama						0		x 25,000 =		
6. Court Reporter 7. Expert Witness		s Servers	<u>50%</u> 75%	X	1 =	1	The second secon	x 500 = x 30,000 =	500 30,000	
8. Mediators	5		75%	X	1 =	1	E MANAGEMENT OF THE PROPERTY O	x 30,000 = x 3,500 =		
9. Demolition, As	b. Abate.,	Survey, etc.				Ö		x 20,000 =		
10. Miscellaneous		5				1	THE STATE OF THE PROPERTY OF THE PARTY OF TH	x 15,000 =		
11. Appraisal Fee	Review					0	Parcels	x 5,000 =	0	604.000
12.	/pr			W				TOTAL PHASE 4B	The Delivery of the Parket of	\$84,000
R/W LAND COSTS								Amount	Subtotal	
13. Land, Improven and Cost to Cu		everance Damages	•	,,,	1200/- *	Design pi	lan etana			
14. Water Retention			340,359	X			<i>an stage</i> /o R/W Acq)	= <u>0</u> 408,400		
15. SUBTOTAL (11)			<u></u>	^	12070 (0	(Lines 13	Fig. 1970	400,400	408,400	
16. Admin. Settlen	8 8	(Factor	20%	х	60% of	Line 15)	<u>~,</u>	= 49,000		
17. Litigation Awa		(Factor	45%	X	Y	Line 15)	,	73,500		
18. Business Dama	ages	(Claims	0	X	0)		;	= 0		
19. Bus. Damages		(Factor	25%	X	\$ -)		1	=0		
20. Owner Appr. Fo		(Parcels	1	X	\$30,000)		;	= 30,000		
21. Owner CPA Fe		(Claims	0	X	\$25,000)		1	= 0		
22. Defend.Atty Fe		(Sum of Lines 16, 17 & 19)	122,500	X	33%)	40.000	,	= 40,400		
23. Owner Expert \ 24. Other Condemi		(Comm.+Unimp.)	0	+	\$1,000	18,000	_	18,000		
25. SUBTOTAL	11. 60313			X	\$1,000	(Lines 16	thru 24)	= 1,000	211,900	
26.						(211100 10		TOTAL PHASE 43	211,000	\$620,300
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Doorgh bondinge			and the second of the second		v sorom a promoto					
(1) PD&E pla	ans - 120%	(2) 30% plans - 115% (3) 60% plans - 1109	% (4)	90% plans -105%	(5) 268 Date	e -100%			
(1) PD&E pla	a <i>ns - 120%</i> I Consult	(2) 30% plans - 115% (TANT (PHASE 42)				(5) 268 Date	e -100%	TOTAL PHASE 42		\$0
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FM#:	447157-1 Hillsbord		Alternate: Segment:		SMF 1 & 7-2 N/A			District: Date:		Seven 25-Mar-24
County: State Rd.:	SR 600	ougn	Segment: FAP#:		N/A			C.E. Sequence		N/A
Project Des.		Road From S of US 92 to		Rd. Po						
Parcels	Gross	Net					Estimated Relo	ocatees:	•	
Commercial Residential	1	1 0					Business Residential		0	
Unimproved	0	0					Signs		0	
							Special		0	
Total Parcels	1	1	produced was not		and the second of the second of the second		Total Relocate	A Mark To District Street and Street Street	0	
R/W SUPPORT COS								Amount		
1. Direct Labor Co 2. Indirect Overhe		(Parcels (Parcels		X X	20,000 =	Rate) Rate)		20,000		
3.	au	(Faiceis		^		nate		TOTAL PHASE 41		\$20,000
R/W OPS (PHASE 4	IR)	March Section 1991 Institutes					TOTAL CONTRACTOR	1017(211)	Amount	
4. Appraisal Fees		Trial				1	Parcels	x 35,000 =	35,000	
5. Business Dama	age CPA F	ees Through Trial				-1	Claims	x 25,000 =	-25,000	
6. Court Reporter		s Servers	50%	X	=	1		x 500 =	500	
7. Expert Witness 8. Mediators	5		75% 75%	x	=	1 1		x 30,000 = x 3,500 =	30,000 3,500	
9. Demolition, As	b. Abate	Survey, etc.	7370	^		Ö		x 20,000 =	0	
10. Miscellaneous	Contract					1	Per Project	x 15,000 =	15,000	
11. Appraisal Fee	Review					0	Parcels	x 5,000 =	0	¢50,000
12.			Committee Sealing States	NOT YET		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VI. 100 (100 (100 (100 (100 (100 (100 (100	TOTAL PHASE 4B	Calculate Sections	\$59,000
R/W LAND COSTS								Amount	Subtotal	
DESCRIPTION OF CHARGE VECTOR STATE		everance Damages			1200/ *	Danies s	lan atawa	0		
and Cost to Cu 14. Water Retention			1,123,850	x x		Design p	o R/W Acq)	1,348,600		
15. SUBTOTAL (11)		i Foliu)	1,123,030	х	120% (0	(Lines 13		1,340,000	1,348,600	
16. Admin. Settlen		(Factor	20%	х	60% of	Line 15)	~,	= 161,800	.,,,,,,,,,	
17. Litigation Awa		(Factor	45%	x		Line 15)		= 242,700		
18. Business Dama	ages	(Claims	0	x	0)			-650,000		
19. Bus. Damages	Incrs.	(Factor	25%	X	\$ -)			=0		
20. Owner Appr. Fo		(Parcels	1	X	\$30,000))	= 30,000		
21. Owner CPA Fe		(Claims	1	X	\$25,000)		3	= -25,000		
22. Defend.Atty Fe		(Sum of Lines 16, 17 & 19)	404,500	X	33%)	10.000		= 133,500 = 18,000		
23. Owner Expert 1 24. Other Condemi		(Comm.+Unimp.)	1	+ X	\$1,000	18,000	-	= 1,000		
25. SUBTOTAL	ii. Gusts			^	Ψ1,000	(Lines 16	thru 24)	= 1,000	-88,000	
26.						,		TOTAL PHASE 43		\$1,260,600
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(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Proposition 34. Relocation Section 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review:	Roger D Alfred J Alfred J	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton Dated:	\$25,000 \$25,000 \$25,000 \$30,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x x x In the	Number 0 0 0 0 0 \$0 \$0	= = = = = (Not in P	Amount 0 0 0 0 0 4 0 0 Amount (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 ion Date:	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propi 33. (Lines 28 thru 3 34. Relocation Sel 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	Roger D Alfred J Alfred J	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton Dated:	\$25,000 \$25,000 \$25,000 \$30,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x x x In the	Number 0 0 0 0 0 \$0 \$0	= = = = = (Not in P	Amount 0 0 0 0 0 4 0 0 Amount (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 ion Date:	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propi 33. (Lines 28 thru 3 34. Relocation Sel 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	Roger D Alfred J Alfred J	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton Dated:	\$25,000 \$25,000 \$25,000 \$30,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x x x In the	Number 0 0 0 0 0 \$0 \$0	= = = = = (Not in P	Amount 0 0 0 0 0 4 0 0 Amount (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 ion Date:	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propi 33. (Lines 28 thru 3 34. Relocation Sel 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	Roger D Alfred J Alfred J	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton Dated:	\$25,000 \$25,000 \$25,000 \$30,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x x x In the	Number 0 0 0 0 0 \$0 \$0	= = = = = (Not in P	Amount 0 0 0 0 0 4 0 0 Amount (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 ion Date:	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propi 33. (Lines 28 thru 3 34. Relocation Sel 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	Roger D Alfred J Alfred J	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton Dated:	\$25,000 \$25,000 \$25,000 \$30,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x x x In the	Number 0 0 0 0 0 \$0 \$0	= = = = = (Not in P	Amount 0 0 0 0 0 4 0 0 Amount (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 ion Date:	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propi 33. (Lines 28 thru 3 34. Relocation Sel 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	Roger D Alfred J Alfred J	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton Dated:	\$25,000 \$25,000 \$25,000 \$30,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x x x In the	Number 0 0 0 0 0 \$0 \$0	= = = = = (Not in P	Amount 0 0 0 0 0 4 0 0 Amount (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 ion Date:	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propi 33. (Lines 28 thru 3 34. Relocation Sel 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	Roger D Alfred J Alfred J	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton Dated:	\$25,000 \$25,000 \$25,000 \$30,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x x x In the	Number 0 0 0 0 0 \$0 \$0	= = = = = (Not in P	Amount 0 0 0 0 0 4 0 0 Amount (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 ion Date:	\$0
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(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Roger D Alfred J uence #:	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton Dated:	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000 assumed: Signed: Signed: Signed: Signed: Signed:	x x x x x In the	Number 0 0 0 0 0 \$0 \$0	= = = = = (Not in P	Amount 0 0 0 0 0 4 0 0 Amount (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 ion Date:	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Roger D Alfred J Roger D Alfred J Runce #:	Patton Thompson This estimate Estimator's confidence	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x In the	Number 0 0 0 0 0 \$0 \$0	= = = = = (Not in P	Amount 0 0 0 0 0 4 0 0 Amount (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 ion Date:	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Roger D Alfred J Roger D Alfred J Roger B Alfred J Roger B Alfred J Roger B Type A Type A Type B Type C	estimator's confidence indicates the most confindicates the most confindicates below averagindicates below averagination and the section of the section	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 signed: Signed: Signed: Signed: Signed: confidence e confidence e confidence	x x x x x In the	Number 0 0 0 0 0 \$0 \$0	= = = = = (Not in P	Amount 0 0 0 0 0 4 0 0 Amount (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24 ion Date:	\$0
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(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Proposition 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS: The following indivision X	Roger D Alfred J Roger D Alfred J Roger D Alfred J Roger D Type A - Type B - Type D - Cates the	A CANT (PHASE 42) TANT (PHASE 42) O% of parcels E 45) ment Housing Osts Thompson Dated: This estimate estimator's confidence indicates the most confindicates the most confindicates above averagindicates below averagindicates the least or not confindicates the least or not confind the confined transfer of the confined transfer	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3igned: Signed: Signed: Signed: Signed: Confidence Signed: Sign	x x x x x In the	Number 0 0 0 0 0 \$0 \$0	= = = = = = = (Not in P	Amount 0 0 0 0 0 0 hase Total) (All Phases) Chapper esult of the mai	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Data Input Completi	E 04/07/24 04/07/24 04/07/24 ion Date: equisition.	\$0

					ARTMENT OF T				HDR#:	10375841-2.27	
FM#:	447157-1		Alternate:		SMF 2-1	711 0001	20111111112	District:		Seven	
County:	Hillsboroug	gh	Segment:		N/A			Date:		25-Mar-24	
State Rd.:	SR 600		FAP#:		N/A			C.E. Sequence		N/A	
Project Des. Parcels	McIntosh F Gross	Road From S of US 92 to Net	North of Dickey F	ld. P	ond Sites		Estimated Relo	ratees.			
Commercial	1	1					Business	outeus.	0		
Residential	0	0					Residential		0		
Unimproved	0	0					Signs		0		
Total Parcels	1	1					Special Total Relocate	PS	- 0		
R/W SUPPORT CO	THE RESERVE STATES	and the second of the second o		-			Total Holocuto	Amount			CRIVER, VOICEMENTS
1. Direct Labor Co		(Parcels	1	x	20,000 =	Rate)	20,000			
2. Indirect Overhe		(Parcels	1	x	0 =			0			
3.					-			TOTAL PHASE 41		A 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	\$20,000
R/W OPS (PHASE	4B)								Amount		
4. Appraisal Fees						1	42.15-90/210.00000.000	35,000 =	35,000		
5. Business Dama 6. Court Reporter			E00/			1	5-4-00-00-00-00-00-00-00-00-00-00-00-00-0	x 25,000 = x 500 =	25,000 500		
7. Expert Witness		servers	<u>50%</u>	X X	1 =====================================	1		x 500 = x 30,000 =	30,000		
8. Mediators			75%	X	1 =	1	1000	x 3,500 =	3,500		
9. Demolition, As		ırvey, etc.				1		20,000 =	20,000		
10. Miscellaneous						1 0	Per Project x		15,000 0		
11. Appraisal Fee	Keview					U	Parcels >	TOTAL PHASE 4B	U		\$129,000
	(DUACE 40)			- 1 T					Cubasal		\$123,000
R/W LAND COSTS 13. Land, Improver		erance Damages						Amount	Subtotal		
and Cost to Cu		crance painages	0	х	120%	* Design	lan stage =	. 0			
14. Water Retention		Pond)	1,843,440	x			/o R/W Acq)	2,212,100			
15. SUBTOTAL (13				101		(Lines 13	4 100 and 200 and 10 100 to -20		2,212,100		
16. Admin. Settlen	nents (F	actor	20%	X	60% o	f Line 15)	.=	265,500			
17. Litigation Awa	rds (F	actor	45%	X	40% o	f Line 15)	=	398,200			
18. Business Dama	ages (C	laims	1	X	0)		=	300,000			
19. Bus. Damages		actor	25%	X	\$ 300,000)		=	75,000			
20. Owner Appr. F		arcels	1	X	\$30,000		=				
21. Owner CPA Fe	1	laims	1	X	\$25,000)		-	25,000			
22. Defend.Atty Fe 23. Owner Expert		um of Lines 16, 17 & 19)	738,700	X	33%)	. 10 000	, -	243,800			
24. Other Condemi		omm.+Unimp.)	1	+ X	\$1,000	x 18,000	-	1,000			
25. SUBTOTAL	แ. 603เ3		<u>-</u>	^	\$1,000	(Lines 16	thru 24) =	1,000	1,356,500		
26.						(=====	2.7	TOTAL PHASE 43	1,000,000		\$3,568,600
* Design continge											
(1) PD&E pla	ans - 120% (2	?) 30% plans - 115% (3) 60% plans - 110%	6 (4)	90% plans -105%	(5) 268 Dat	te -100%		A THE DAY WAS TO SHOULD BE	AND TALLET WITH THE PARTY OF TH	
R/W ACQUISITION											
27. Acquisition Co			\$20,000	Х	0			TOTAL PHASE 42			\$0
RELOCATION COS											
28. Owner	Replaceme	ent Housing	605.0 00	\.	Number		Amount				
29. Tenant			\$25,000 \$25,000	X	0	=	0				
25. Tellalit	Move Cost	s	\$23,000	^		_					
30. Residential			\$3,000	Х	0	=	0				
31. Business/Farm			\$30,000	х	0	=	0				
32. Personal Propo			\$3,000	X	0	=	0				
33. (Lines 28 thru 3	(20)							TOTAL PHASE 45			\$0
34. Relocation Ser	rvices Cost			_	\$0	(Not in P	hase Total)			and the letter than the	
35. 36.						-					
37.							(All Phases)	TOTAL ESTIMATE			\$3,717,600
Real Estate:	Roger D.Pa	itton	Signed:	-	DAGION	_		Date:	04/07/24		
Bus. Dam. :	Alfred J. Ti		Signed:			a.V. J	Langen	Date:	04/07/24		
Relocation:	Roger D.Pa	itton	Signed:		PARION			Date:	04/07/24		
Overall Review:	Alfred J. Th	nompson	_Signed: _		1,100	a.g. 7	hongson	Date:	04/07/24		
Cost Estimate Sequ	uence #:	Dated:		In t	he Amount of \$	a	, ,	Data Input Completio	on Date:		
REMARKS:		Dutou.		111 (iio / timodiic or φ			otta input compicu	on Buto.		
The following indi	_Type A - in _Type B - in _Type C - in	timator's confidence in dicates the most confi dicates above average dicates below average dicates the least or no	dence confidence confidence	te:							
The following indi Work Program Upo Comments:	*12	partment's purpose fo	r this estimate: Gaming 1:			Special F	ourpose:	x	Docs to RW:		

					ARTMENT OF T N RIGHT OF W				HDR#:	10375841-2.27	
FM#:	447157-1		Alternate:		SMF 2-2	AT 000	LOTHINITE	District:		Seven	
	Hillsborough		Segment:		N/A			Date:		25-Mar-24	
State Rd.:	SR 600		FAP#:		N/A			C.E. Sequence		N/A	
		rom S of US 92 to	North of Dickey R	d. Po	ond Sites		II				
Parcels Commercial	Gross Net	0					Estimated Rel Business	ocatees:	0		
Residential		0					Residential		0		
Unimproved	0	0					Signs		0		
T-4-I BI-							Special		0		
Total Parcels	CONTRACTOR SERVICES CONTRACTOR OF THE PARTY	1		Name of			Total Relocate	the second state of the second	U		
R/W SUPPORT COS		(Descale			20,000 =	Rate		Amount 20,000			
1. Direct Labor Co. 2. Indirect Overhe		(Parcels (Parcels	1	X	20,000 =			20,000			1
3.	au	\i diccis	<u>.</u>	^		Hato	,	TOTAL PHASE 41			\$20,000
R/W OPS (PHASE 4	R)			0.7547			-		Amount	SECUL PLANS	HE DESIGNATION OF THE PERSON O
4. Appraisal Fees						1	Parcels	x 35,000 =	35,000		1
	ge CPA Fees Thr	ough Trial				0	Claims	x 25,000 =	0		1
6. Court Reporter		rs	50%	X	=	1	Parcels	x 500 =	500		- 1
7. Expert Witness	١,		75%	X	=	1		x 30,000 =	30,000		
8. Mediators 9. Demolition, Asl	h Ahata Survey	etc	75%	X	=	1		x 3,500 = x 20,000 =	3,500 0		- 1
10. Miscellaneous		etc.				1		x 15,000 =	15,000		- 1
11. Appraisal Fee F	Review					0		x 5,000 =	0		
12.								TOTAL PHASE 4B		New Modern Co.	\$84,000
R/W LAND COSTS	(PHASE 43)							Amount	Subtotal		
13. Land, Improven		e Damages									
and Cost to Cu			0	x		Design p	_	=0			
14. Water Retentio	n & Mit. (1 Pond)		1,093,360	X	120% (0	Parcels w	/o R/W Acq)	1,312,000			- 1
15. SUBTOTAL (109						(Lines 13	&14)		1,312,000		- 1
16. Admin. Settlem	•		20%	X		f Line 15)		= 157,400			
17. Litigation Awar			45%	X		f Line 15)		= 236,200			- 1
18. Business Dama	-		0	X)			= 0			1
19. Bus. Damages 20. Owner Appr. Fe		•	25% 1	X	\$ -)			= 30,000			- 1
21. Owner CPA Fee				x	\$25,000)			= 30,000	~		- 1
22. Defend.Atty Fee	•	ines 16, 17 & 19)	393,600	x	33%)			= 129,900			
23. Owner Expert V		+Unimp.)	0	+	0)	x 18,000	1	= 0			
24. Other Condemn		μ.,	1	x	\$1,000		_	= 1,000			- 1
25. SUBTOTAL						(Lines 16	thru 24)	=	554,500		
26.								TOTAL PHASE 43			\$1,866,500
* Design continge			01 000/ 1 400		1.000/ -1 4050/	/FI 000 D	4000/				
-	The second secon		3) 60% plans - 110%	6 (4)	90% plans -105%	(5) 268 Da	te -100%			Annual Control of the Control	CALMENTS VARIABLE
R/W ACQUISITION								TOTAL DULOT 10			00
27. Acquisition Co		rcels	\$20,000	Х	0			TOTAL PHASE 42	municipal Alexanders, at	New Charleson	\$0
RELOCATION COST											
20. 0	Replacement Ho	ousing	005 000		Number		Amount				
28. Owner 29. Tenant			\$25,000 \$25,000	X	0		0				
25. Tellalit	Move Costs	•	\$25,000	^		-					
30. Residential	111010 00010		\$3,000	Х	0	=	0				
31. Business/Farm			\$30,000	x	0	=	0				
32. Personal Prope	•		\$3,000	X	0	=	0				
33. (Lines 28 thru 3	1							TOTAL PHASE 45			\$0
34. Relocation Ser	vices Cost				\$0	(Not in P	hase Total)			45414457	
35.											
36. 37.							(All Phases)	TOTAL ESTIMATE			\$1,970,500
Real Estate:	Pages D D-44-		Signed	+	102101L	. 46 74 5	(All FildSes)	Date:	04/07/24		+1,070,000
Bus. Dam. :	Roger D.Patton Alfred J. Thomps	son	_Signed: _ Signed:		WILL .	10,7	-	Date:	04/07/24		
Relocation:	Roger D.Patton	3011	Signed:	I	PORTON	v-y. v	mpsin	Date:	04/07/24		
Overall Review:	Alfred J. Thomps	son	Signed:			2.V. 7	harpsen	Date:	04/07/24		
0						0	1	D-4- I 0	an Data:		
Cost Estimate Sequ	ience #:	Dated:	Production of the latest services	In t	he Amount of \$	ON THE PARTY OF	The section of the section of	Data Input Completi	on Date:	Na hand last will be put to	
REMARKS:											
The following indi				ate:							
x	Type B - indicat _Type C - indicat	es the most confi es above averago es below averago es the least or no	e confidence e confidence								
The following indic Work Program Upd Comments:		nent's purpose fo	or this estimate:Gaming 1:			Special	Purpose:	х	_Docs to RW:		

			DISTRICT S	EVE	N RIGHT OF W	RANSPU AV COST	ESTIMATE		HDR#:	10375841-2.27
FM#:	447157-1		Alternate:	LVLI	SMF3-1	A1 0031	LOTHVIATE	District:	попя.	Seven
County:	Hillsbor		Segment:		N/A			Date:		25-Mar-24
State Rd.:	SR 600		FAP#:		N/A			C.E. Sequence		N/A
Project Des.		h Road From S of US 92	to North of Dickey I	Rd. Po	nd Sites					
Parcels Commercial	Gross 0	Net 0					Estimated Rel Business	ocatees:	0	
Residential	- 0	0					Residential			
Unimproved	1	1					Signs		0	
							Special		0	
Total Parcels	1	1					Total Relocat	and the second s	0	
R/W SUPPORT CO		SE 41) (Parcels	1	v	20,000 =	Rate)		Amount 20,000		
2. Indirect Overh		(Parcels		X X	0=	Rate)		20,000		
3.	ouu	(1 0.0010				nato,		TOTAL PHASE 41		\$20,000
R/W OPS (PHASE	4B)		the the probabilities were set out to the	MA DOMESTIC		ADMITTAL DATE OF	CHARLEST BOX NEEDS		Amount	
4. Appraisal Fee		Trial				1	Parcels	x 35,000 =	35,000	
5. Business Dam						0	Claims	x 25,000 =	0	
6. Court Reporter		s Servers	50%	х	=	1	Parcels	x 500 =	500	
7. Expert Witnes 8. Mediators	5		75% 75%	X	<u>1</u> =	1 1	Parcels Parcels	x 30,000 = x 3,500 =	30,000 3,500	
9. Demolition, As	sb. Abate.,	Survey, etc.		^	 -		Imprvmet	x 20,000 =	0	
10. Miscellaneou		S				1	Per Project		15,000	
11. Appraisal Fee	Review					0	Parcels	x 5,000 =	0	\$04.000
12.	CKWEUNEGE	TAKE THE AMERICAN PROPERTY OF THE PROPERTY OF		-			OHE MAY THE WORK	TOTAL PHASE 4B		\$84,000
R/W LAND COSTS								Amount	Subtotal	
13. Land, Improve and Cost to Ci		everance Damages	•	v	1200/ *	Decies -	lan etana			
14. Water Retenti			2,159,133	x x		Design pl	<i>an stage</i> o R/W Acq)	= <u>0</u> 2,591,000		
15. SUBTOTAL (14		11 onu,	2,133,133	^	120 /0 (0	(Lines 13		2,331,000	2,591,000	
16. Admin. Settler	120	(Factor	20%	x	60% of	Line 15)	~ ₍	= 310,900		
17. Litigation Awa	ards	(Factor	45%	x		Line 15)		= 466,400		
18. Business Dam	ages	(Claims	0	X	0)			= 0		
19. Bus. Damages		(Factor	25%	X	\$)			= 0		
20. Owner Appr. F		(Parcels	1	X	\$30,000)			= 30,000		
21. Owner CPA Fe		(Claims	0	х	\$25,000)			= 0		
22. Defend.Atty Fe 23. Owner Expert		(Sum of Lines 16, 17 & 19) (Comm.+Unimp.)	777,300	X	33%)	c 18,000		= <u>256,500</u> = 18,000		
24. Other Condem		(Comm.+Ommp.)		+ X	\$1,000	10,000		= 1,000		
25. SUBTOTAL	00010			^	Q1,000	(Lines 161	thru 24)	= 1,000	1,082,800	
26.						, annual see		TOTAL PHASE 43		\$3,673,800
* Design conting		esign plan stage:								
	4000/		/01 000/ 1 440/	0/ /#1	000/ / 4050/	/FL 000 D	4000/			
(1) PD&E pla	NAME OF TAXABLE PARTY.	(2) 30% plans - 115%	(3) 60% plans - 1109	% (4)	90% plans -105%	(5) 268 Date	e -100%			
(1) PD&E pla R/W ACQUISITION	CONSUL	(2) 30% plans - 115% TANT (PHASE 42)				(5) 268 Date	e -100%	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co	N CONSUL onsultant-5	(2) 30% plans - 115% TANT (PHASE 42) 0% of parcels	(3) 60% plans - 1109 \$20,000	% <i>(4)</i> x	90% plans -105%	(5) 268 Date	e -100%	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION	N CONSUL onsultant-5 TS (PHAS	(2) 30% plans - 115% TANT (PHASE 42) 0% of parcels				(5) 268 Date	e -100% Amount	TOTAL PHASE 42		\$0
(1) PD&E pt. R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner	N CONSUL onsultant-5 TS (PHAS	TANT (PHASE 42) 0% of parcels E 45)	\$20,000 \$25,000		0	(5) 268 Date		TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS	N CONSUL onsultant-5 TS (PHAS Replace	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000	х	0 Number		Amount			\$0
(1) PD&E plan R/W ACQUISITION 27. Acquisition Cos RELOCATION COS 28. Owner 29. Tenant	N CONSUL onsultant-5 TS (PHAS	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000	x x x	Number 0 0	=	Amount 0			\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential	N CONSUL onsultant-5 TS (PHAS Replace Move Co	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000	x x x	Number 0 0 0	= =	Amount 0			\$0
(1) PD&E plan R/W ACQUISITION 27. Acquisition Cos RELOCATION COS 28. Owner 29. Tenant	N CONSUL onsultant-5 TS (PHAS Replace Move Co	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0	=	Amount 0 0 0 0 0 0 0 0			\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn	N CONSUL onsultant-5 TS (PHAS Replace Move Co	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000	x x x	Number 0 0 0 0 0 0 0	= =	Amount 0			\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 1) 34. Relocation Se	N CONSUL onsultant-5 TS (PHAS Replace Move Co n erty 32)	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 0 0 0	H H	Amount 0 0 0 0 0 0 0 0			
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35.	N CONSUL onsultant-5 TS (PHAS Replace Move Co n erty 32)	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0			
(7) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36.	N CONSUL onsultant-5 TS (PHAS Replace Move Co n erty 32)	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 1) 34. Relocation Se 35. 36. 37.	N CONSUL onsultant-5 TS (PHAS Replace Move Co n erty 32)	TANT (PHASE 42) 0% of parcels E 45) ment Housing ests	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	0 Number 0 0 0 0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45	E	
(7) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36.	N CONSULTANTANTANTANTANTANTANTANTANTANTANTANTANT	TANT (PHASE 42) 0% of parcels E 45) ment Housing ests	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45		\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation:	M CONSULTANT OF THE PROPERTY O	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3j,000	x x x	0 Number 0 0 0 0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date:	E 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.:	M CONSULTANT OF THE PROPERTY O	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x	0 Number 0 0 0 0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date:	E 04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review:	M CONSULTANTIAN	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts tt	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3j,000	x x x x x x	0 Number 0 0 0 0 0 0 \$0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	M CONSULTANTIAN	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3j,000	x x x x x x	0 Number 0 0 0 0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	M CONSULTANTIAN	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts tt	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3j,000	x x x x x x	0 Number 0 0 0 0 0 0 \$0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	M CONSULTANTIAN	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts tt	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3j,000	x x x x x x	0 Number 0 0 0 0 0 0 \$0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
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(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	M CONSULTANTIAN	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts tt	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3j,000	x x x x x x	0 Number 0 0 0 0 0 0 \$0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	M CONSULTANTIAN	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts tt	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3j,000	x x x x x x	0 Number 0 0 0 0 0 0 \$0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq	M CONSULTANTIAN	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts tt	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3j,000	x x x x x x	0 Number 0 0 0 0 0 0 \$0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Cor RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	M CONSULTANTIAL	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Et Patton Thompson Patton Thompson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x x x ln th	0 Number 0 0 0 0 0 0 \$0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Cor RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	M CONSULTANT OF THE PROPERTY O	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts tt	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$33,000 \$3igned: Signed: Signed: Signed:	x x x x x x ln th	0 Number 0 0 0 0 0 0 \$0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Cor RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	N CONSULTANT OF THE PROPERTY O	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts tt Patton Thompson Patton Thompson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x ln th	0 Number 0 0 0 0 0 0 \$0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
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(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	N CONSULTANT OF THE PROPERTY O	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts tt Patton Thompson Patton Thompson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x ln th	0 Number 0 0 0 0 0 0 \$0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	N CONSULTANT OF THE PROPERTY O	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts t Patton Thompson Patton Thompson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: oconfidence ge confidence ge confidence go confidence	x x x x x x ln th	0 Number 0 0 0 0 0 0 \$0	H H	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	N CONSULTANT OF THE PROPERTY O	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts At Patton Thompson Patton Thompson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed: oconfidence ge confidence ge confidence go confidence	x x x x x x ln th	0 Number 0 0 0 0 0 0 \$0	H H	Amount 0 0 0 0 0 0 asse Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24	\$0
(1) PD&E place R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn 32. Personal Prop 33. (Lines 28 thru: 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS: The following ind	N CONSULTANT OF THE PROPERTY O	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts t Patton Thompson Patton Thompson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000	x x x x x x ln th	0 Number 0 0 0 0 0 0 \$0	(Not in Ph	Amount 0 0 0 0 0 0 asse Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATI Date: Date: Date: Date: Date: Data Input Completi	E 04/07/24 04/07/24 04/07/24 04/07/24 ion Date:	\$0

					ARTMENT OF T N RIGHT OF WA				HDR#:	10275041 2 27
FM#:	447157-1			-	SMF 3-2	AT CUST	ESTIMATE	District:	пип#:	10375841-2.27 Seven
County:	Hillsbor		Alternate: Segment:		N/A			District: Date:		25-Mar-24
State Rd.:	SR 600	oug.	FAP#:		N/A			C.E. Sequence		N/A
Project Des.		h Road From S of US 921	o North of Dickey F	Rd. Po	nd Sites					
Parcels Commercial	Gross 0	Net 0					Estimated Rel	ocatees:	0	
Residential	0						Residential			
Unimproved	1	1					Signs		0	
Total Barasia							Special		0	
Total Parcels	1 OTO /DUA						Total Relocate	Committee of the Commit	U	
R/W SUPPORT CO:		SE 41) (Parcels	1	v	20,000 =	Rate)		Amount 20,000		
2. Indirect Overhe		(Parcels	1	x	0 =	Rate)		20,000		
3.		• 1000000000000000000000000000000000000				,		TOTAL PHASE 41		\$20,000
R/W OPS (PHASE	4B)			and the same of		Total State Control State Control	The same that is not the same		Amount	Control of the Party of States and States an
4. Appraisal Fees						1		x 35,000 =	35,000	
5. Business Dama 6. Court Reporter	-		50%	.,	1 _	0	100000000000000000000000000000000000000	x 25,000 = x 500 =		
7. Expert Witness		S Servers	75%	x	1= 1 =	1	East a	x 500 = x 30,000 =		
8. Mediators			75%	х	1 =	1	220	x 3,500 =		
9. Demolition, As						1	And the second second	x 20,000 =		
10. Miscellaneous 11. Appraisal Fee		S				1 0	Per Project : Parcels	x 15,000 = x 5,000 =		
12.	11011011					Ü	i diccis	TOTAL PHASE 4B		\$104,000
R/W LAND COSTS	(PHASE 4	3)		Mark to be	in a grander that the state of			Amount	Subtotal	
		everance Damages						Amount	Oubtotal	
and Cost to Cu			0	х	120% *	Design pl	lan stage	= 0		
14. Water Retention	on & Mit. (1 Pond)	1,544,528	x			o R/W Acq)	1,853,400		
15. SUBTOTAL (14:			,			(Lines 13	&14)		1,853,400	
16. Admin. Settlen		(Factor	20%	X .		Line 15)	:	= 222,400		
17. Litigation Awa 18. Business Dama		(Factor	45%	x		Line 15)	:	= 333,600		
19. Bus. Damages	•	(Claims (Factor	0 25%	x x	\$ -)			= 0		
20. Owner Appr. Fo		(Parcels	1	x	\$30,000)			= 30,000		
21. Owner CPA Fe		(Claims		x	\$25,000)			= 0		
22. Defend.Atty Fe	ees	(Sum of Lines 16, 17 & 19)	556,000	x	33%)			= 183,500		
23. Owner Expert		(Comm.+Unimp.)	0	+	1)x	18,000	<u>.</u> :	18,000		
24. Other Condemi	n. Costs		1	x	\$1,000		:	= 1,000		
25. SUBTOTAL 26.						(Lines 16	thru 24) :	TOTAL DUACE 42	788,500	\$2,641,900
1000	ency for de	esign plan stage:						TOTAL PHASE 43		\$2,041,500
		- J - F								
(1) PD&E pla		(2) 30% plans - 115% (3) 60% plans - 110%	6 (4)	90% plans -105%	(5) 268 Date	e -100%			
(1) PD&E pla			3) 60% plans - 110%	% (4)	90% plans -105% ₍	(5) 268 Date	e -100%			
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co	N CONSUL onsultant-5	TANT (PHASE 42) 0% of parcels	3) 60% plans - 1109 \$20,000	% (4) x	<i>90% plans -105% ₍</i> 0	(5) 268 Date	e -100%	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co	ONSULT Onsultant-5 TS (PHASI	TANT (PHASE 42) 0% of parcels E 45)		. 100	0	(5) 268 Date		TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COST	ONSULT Onsultant-5 TS (PHASI	TANT (PHASE 42) 0% of parcels	\$20,000	x	0 Number		Amount	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner	ONSULT Onsultant-5 TS (PHASI	TANT (PHASE 42) 0% of parcels E 45)	\$20,000 \$25,000	x	0 Number 0	=	Amount 0	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COST	ONSULT Onsultant-5 TS (PHASI	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000	x	0 Number		Amount	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential	N CONSUL onsultant-5 TS (PHAS) Replace Move Co	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000	x	Number 0 0	=	Amount 0 0	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm	N CONSUL onsultant-5 TS (PHASI Replace Move Co	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	0 Number 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 42		\$0
(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope	N CONSULT onsultant-5 TS (PHASI Replace Move Co	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000	x x x	Number 0 0	=	Amount 0 0			
R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3	N CONSULTONSULTONSULTANTA TS (PHASI Replace Move Con erty 32)	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	0 Number 0 0 0 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 42		\$0
R/W ACQUISITION 27. Acquisition Co RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser	N CONSULTONSULTONSULTANTA TS (PHASI Replace Move Con erty 32)	TANT (PHASE 42) 0% of parcels E 45) ment Housing	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000	x x x	0 Number 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
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R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37.	N CONSULT Onsultant-5 TS (PHASI Replace Move Co n erty 32) rvices Cos	TANT (PHASE 42) 0% of parcels E 45) ment Housing ests	\$25,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x	0 Number 0 0 0 0 0 \$0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0			
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(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ	MOVE Consultant-5 TS (PHASI Replace Move Conserty 32) rvices Cos Roger D. Alfred J. Roger D. Alfred J.	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x x	0 Number 0 0 0 0 0 0 \$0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$0
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(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ	MOVE Consultant-5 TS (PHASI Replace Move Conserty 32) rvices Cos Roger D. Alfred J. Roger D. Alfred J.	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x x	0 Number 0 0 0 0 0 0 \$0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$0
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(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ	MOVE Consultant-5 TS (PHASI Replace Move Conserty 32) rvices Cos Roger D. Alfred J. Roger D. Alfred J.	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts Patton Thompson Patton Thompson	\$20,000 \$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x x	0 Number 0 0 0 0 0 0 \$0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$0
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R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequence REMARKS:	MOVE Consultant-5 TS (PHAS) Replace Move Conserty 32) rvices Cos Roger D. Alfred J. Roger D. Alfred J. uence #:	TANT (PHASE 42) 0% of parcels E 45) ment Housing ests Patton Thompson Patton Thompson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x x x In the	0 Number 0 0 0 0 0 0 \$0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$0
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(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ REMARKS:	Roger D. Alfred J. Roger D. Alfred J. Roger D. Alfred J. Type A - Type B -	TANT (PHASE 42) 0% of parcels E 45) ment Housing osts t Patton Thompson Patton Thompson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x x In the	0 Number 0 0 0 0 0 0 \$0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$0
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(1) PD&E pla R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ REMARKS:	Roger D. Alfred J. Roger D. Alfred J. Roger D. Alfred J. Roger D. Alfred J. Type B - Type B - Type D - Cates the	TANT (PHASE 42) 0% of parcels E 45) ment Housing ests Patton Thompson Patton Thompson Dated:	\$25,000 \$25,000 \$25,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000	x x x x x x In the	0 Number 0 0 0 0 0 0 \$0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 Amase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$0

					ARTMENT OF T				HDR#:	10375841-2.27	
FM#:	447157-1		Alternate:		SMF 5-1			District:		Seven	
County:	Hillsbor		Segment:		N/A			Date:		25-Mar-24	
State Rd.:	SR 600		FAP#:		N/A			C.E. Sequence		N/A	
Project Des. Parcels	Gross	Net	S 92 to North of Dickey	Ka. F	ond Sites		Estimated Rel	ncatees:			
Commercial	1	1					Business	ocatecs.			
Residential	0						Residential		0		
Unimproved	0	0					Signs		0		
Total Bounds							Special		0		
Total Parcels	1	A PARTY OF THE PAR		N. France			Total Relocate	The company of the same of the same of		AT EAST OF THE	
R/W SUPPORT COS					20,000	D-4-	1	Amount			
Direct Labor Co Indirect Overhe		(Parcels (Parcels	1		20,000 =	Rate Rate		20,000			
3.	eau	(Faiceis		X	=	nate	1	TOTAL PHASE 41			\$20,000
-	4D)			d colors	Store and control to the			TOTAL PHASE 41	A		\$20,000
R/W OPS (PHASE 4 4. Appraisal Fees		Trial				1	Parcels	x 35,000 =	Amount 35,000		
5. Business Dama						0		x 35,000 = x 25,000 =	33,000		
6. Court Reporter			50%	х	1 =	1		x 500 =	500		
7. Expert Witness		5 T 557 T 55	75%		1 =	1	g managan a	x 30,000 =	30,000		
8. Mediators			75%	х	1 =	1	Parcels	x 3,500 =	3,500		
9. Demolition, As						2		x 20,000 =	40,000		
10. Miscellaneous		S				1	Per Project		15,000		
11. Appraisal Fee	neview					0	Parcels	X 5,000 =	0	-	\$124 000
12.	/ 12 La partiera			Contraction of the Contraction o			thought the Committee of	TOTAL PHASE 4B			\$124,000
R/W LAND COSTS								Amount	Subtotal		
13. Land, Improver											
and Cost to Cu			0	9		Design p	-	=0			
14. Water Retention		(1 Pond)	2,577,704	х	120%_(0		/o R/W Acq)	3,093,200			
15. SUBTOTAL (83,						(Lines 13	&14)		3,093,200		
16. Admin. Settlen		(Factor	20%	X		Line 15)	:	= 371,200			
17. Litigation Awa		(Factor	45%	X		Line 15)	:	= 556,800			
18. Business Dama	-	(Claims	0	X	0)		:	=0			
19. Bus. Damages		(Factor	25%	X	\$)		:	=0			
20. Owner Appr. Fo		(Parcels	1	60	\$30,000)		,	30,000			
21. Owner CPA Fe		(Claims	0	9	\$25,000)		,	=0			
22. Defend.Atty Fe		(Sum of Lines 16, 17 & 1		X	33%_)			= 306,200			
23. Owner Expert \		(Comm.+Unimp.)	1		()	18,000	<u>)</u>	= 18,000			
24. Other Condemi	n. Costs		1	Х	\$1,000	// **	:	= 1,000	4 000 000		
25. SUBTOTAL						(Lines 16	thru 24) :	=	1,283,200		
26.								TOTAL PHASE 43		\$4	,376,400
* Design continge (1) PD&F nla	ency for al ans - 120%	esign pian stage: (2) 30% nlans - 11	15% (3) 60% plans - 110	1% 14	90% nlans -105%	(5) 268 Dat	te -100%				
R/W ACQUISITION		CONTRACTOR AND THE PARTY OF THE PARTY.	C/O (C/) CC/O p/amo 110	,,,	, co to piano 100 to	0, 200 54.	3 75575				
27. Acquisition Co		in province on the contration of the con-	400.000	х	0						
	mountaint o		\$20.000					TOTAL PHASE 42			\$01
DELOCATION COC	TC /DUAC		\$20,000	-		The second		TOTAL PHASE 42			\$0
RELOCATION COST		E 45)	\$20,000					TOTAL PHASE 42			\$0
RELOCATION COST					Number		Amount	TOTAL PHASE 42			\$0
28. Owner		E 45)	\$25,000	x	Number 0	=	0	TOTAL PHASE 42			\$0
	Replace	E 45) ment Housing			Number	= =		TOTAL PHASE 42			\$0
28. Owner		E 45) ment Housing	\$25,000 \$25,000	×	Number 0 0	=	0 0	TOTAL PHASE 42			\$0
28. Owner 29. Tenant	Replace Move Co	E 45) ment Housing	\$25,000 \$25,000 \$3,000	x x	Number 0 0 0		0 0	TOTAL PHASE 42			\$0
28. Owner 29. Tenant 30. Residential 31. Business/Farm	Replace Move Co	E 45) ment Housing	\$25,000 \$25,000 \$3,000 \$30,000	x x	Number 0 0	=	0 0	TOTAL PHASE 42			\$0
28. Owner 29. Tenant 30. Residential 31. Business/Farm	Replace Move Co	E 45) ment Housing	\$25,000 \$25,000 \$3,000	x x x	Number 0 0 0 0 1	=	0 0 30,000				
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope	Replace Move Co rety 32)	E 45) ment Housing osts	\$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 1	= = =	0 0 0 30,000 0	TOTAL PHASE 42			\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35.	Replace Move Co rety 32)	E 45) ment Housing osts	\$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 1 1 0 0	= = =	0 0 30,000				
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36.	Replace Move Co rety 32)	E 45) ment Housing osts	\$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 1 1 0 0	= = =	0 0 0 30,000 0	TOTAL PHASE 45			
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37.	Replace Move Co rety 32)	E 45) ment Housing osts	\$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 1 1 0 0	= = =	0 0 0 30,000 0			\$4	
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36.	Replace Move Co rety 32)	E 45) ment Housing osts	\$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 1 0 \$3,000	= = =	0 0 30,000 0 hase Total)	TOTAL PHASE 45	E 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37.	Move Conserved States Cost Registration (Cost Registration Cost Registration Cost Registration Cost Registration Cost Registration (Cost Registration Cost R	E 45) ment Housing osts	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x	Number 0 0 0 0 1 1 0 0	= = =	0 0 30,000 0 hase Total)	TOTAL PHASE 45		\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation:	Move Conserved States C	E 45) ment Housing osts Patton Thompson Patton	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x	Number 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date:	04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. :	Move Conserved States C	E 45) ment Housing osts t Patton Thompson	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date:	04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review:	Move Connective States Connect	E 45) ment Housing osts Patton Thompson Patton Thompson	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ	Move Connective States Connect	E 45) ment Housing osts Patton Thompson Patton	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review:	Move Connective States Connect	E 45) ment Housing osts Patton Thompson Patton Thompson	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ	Move Connective States Connect	E 45) ment Housing osts Patton Thompson Patton Thompson	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ	Move Connective States Connect	E 45) ment Housing osts Patton Thompson Patton Thompson	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ	Move Connective States Connect	E 45) ment Housing osts Patton Thompson Patton Thompson	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ REMARKS:	Move Conserved States Cost Alfred J. Roger D. Alfred J. uence #:	E 45) ment Housing osts Patton Thompson Patton Thompson Date	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ REMARKS:	Replace Move Connective States the Type A -	E 45) ment Housing osts Patton Thompson Patton Thompson Date	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3igned: Signed: Signed: Signed: Confidence	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ REMARKS:	Replace Move Connective States the Type A - Type B - Typ	E 45) ment Housing sts Patton Thompson Patton Thompson Date estimator's confide indicates the most indicates above av	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3igned: Signed: Signed: Signed: Confidence Perage confidence	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ REMARKS:	Replace Move Contents Roger D. Alfred J. Roger D. Alfred J. uence #:	E 45) ment Housing ests Patton Thompson Patton Thompson Date Date indicates the most indicates above avindicates below avindicates avindicat	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 confidence confidence verage confidence verage confidence	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ REMARKS:	Replace Move Contents Roger D. Alfred J. Roger D. Alfred J. uence #:	E 45) ment Housing sts Patton Thompson Patton Thompson Date estimator's confide indicates the most indicates above av	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 confidence confidence verage confidence verage confidence	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ REMARKS:	Replace Move Conserved States the Type A - Type B - Type D - Type	E 45) ment Housing ests Patton Thompson Patton Thompson Date indicates the most indicates above avindicates the least indicates the least	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Confidence verage confidence verage confidence verage confidence	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	0 0 30,000 0 hase Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ REMARKS:	Replace Move Conserved States the Type A - Type B - Type D - Cates the Cate	E 45) ment Housing ests Patton Thompson Patton Thompson Date indicates the most indicates above avindicates the least indicates the least	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 \$2,000 \$3,000 \$4,000	x x x x	Number 0 0 0 1 0 \$3,000	= = = = = = (Not in P	O 0 0 30,000 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24 on Date:	\$4	\$30,000
28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequ REMARKS:	Replace Move Conserved States the Type A - Type B - Type D - Cates the Cate	E 45) ment Housing ests Patton Thompson Patton Thompson Date indicates the most indicates above avindicates the least indicates the least	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Confidence verage confidence verage confidence verage confidence	x x x x	Number 0 0 0 1 0 \$3,000	= = = = (Not in P	O 0 0 30,000 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	04/07/24 04/07/24 04/07/24 04/07/24	\$4	\$30,000

						ARTMENT OF N RIGHT OF W			E	HDR#:	10375841-2.27	
FM#:	447157-1			Alternate:		SMF 5-2			District:		Seven	
County:	Hillsbor			Segment:		N/A			Date:		25-Mar-24	
State Rd.:	SR 600	D 1000 D 100		FAP#:		N/A			C.E. Sequence		N/A	
Project Des. Parcels			S of US 92 to	North of Dickey F	Rd. P	ond Sites		Estimated Re	laastaasi			
Commercial	Gross	Net 0						Business	iocatees.	0		
Residential	0							Residential				
Unimproved	1	1						Signs		0		
								Special		0		
Total Parcels	1	1						Total Relocat	ees	0		
R/W SUPPORT CO	STS (PHA	SE 41)							Amount			
1. Direct Labor Co	ost	(Par	rcels	1	X	20,000 =	Rate	e)	20,000			
2. Indirect Overhe	ead	(Par	rcels	1	X	0 =	Rate	e)	0			
3.	_								TOTAL PHASE 41			\$20,000
R/W OPS (PHASE 4	4B)									Amount		
4. Appraisal Fees							1	Parcels	x 35,000 =	35,000		
5. Business Dama	age CPA F	ees Through	Trial				0	Claims	x 25,000 =	0		
6. Court Reporter		s Servers		50%	X	=	: 1	Parcels	x 500 =			
7. Expert Witness	S			75%	X	=		Parcels	x 30,000 =			
8. Mediators		_		75%	X	1=	2	Parcels	x 3,500 =			
9. Demolition, As 10. Miscellaneous							0	Imprvmet	x 20,000 =			
11. Appraisal Fee		S					1 0	Per Project Parcels				
12.	HOVIEVV						U	1 016615	x 5,000 =			\$84,000
THE PART WHEN THE PARTY OF THE PARTY OF					-		and the state of the state of			THE STREET, ST		φον,000
R/W LAND COSTS									Amount	Subtotal		
13. Land, Improver			mages									
and Cost to Cu				0	X		* Design p	-	=0			
14. Water Retention		1 Pond)		769,688	X	120% (Parcels w	v/o R/W Acq)	923,600			
15. SUBTOTAL (94,	,961 SF)						(Lines 13	3 &14)		923,600		
16. Admin. Settlen	nents	(Factor		20%	X	60% 0	f Line 15)		=110,800			
17. Litigation Awa	ırds	(Factor		45%	х	40% 0	f Line 15)		= 166,200			
18. Business Dama	ages	(Claims		0	X	0)			= 0			
19. Bus. Damages		(Factor		25%	X	\$ -)			= 0			
20. Owner Appr. Fe		(Parcels		1	x	\$30,000)			= 30,000			
21. Owner CPA Fe		(Claims		0	х	\$25,000)			= 0			
22. Defend.Atty Fe	es	(Sum of Lines 16	6, 17 & 19)	277,000	х	33%)			= 91,400			
23. Owner Expert		(Comm.+Uni	CALL SOLD STRUCTURES CO.	0	+	1)	x 18,00	10	= 18,000			
24. Other Condemi				1	X	\$1,000		<u></u>	= 1,000			
25. SUBTOTAL				·			(Lines 16	6 thru 24)	=	417,400		
26.							(=:::::::::::::::::::::::::::::::::::::		TOTAL PHASE 43			\$1,341,000
* Design continge	ency for di	esinn nlan sta	aue.						101/12110/102 10			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(1) PD&E pla	ans - 120%	(2) 30% plan	ns - 115% (3	8) 60% plans - 110%	6 (4)	90% plans -105%	(5) 268 Da	nte -100%				
R/W ACQUISITION	Tar The Landson Start Start	A STATE OF THE PARTY OF THE PAR	COMMISSION AND ADDRESS OF THE PARTY OF THE P	HIV KALES DESCRIPTIONS							or the world made (i.e.)	
1				****	х	0			TOTAL PHASE 42	,		\$0
177 Acquisition Co.	incultant_h	N% of narcale		630 000								
The second secon	N-N (F-1/2-D)	The second second second		\$20,000		U	Market State of the	-	CONTRACTOR OF THE	The same of the sa	September 1980	4 0
27. Acquisition Co RELOCATION COST	TS (PHAS	E 45)	pri are e di aperimento.	\$20,000								ψU
RELOCATION COS	TS (PHAS	The second second second	pri are e di aperimento.			Number		Amount				40
RELOCATION COS	TS (PHAS	E 45)	pri are e di aperimento.	\$25,000	x	Number 0	=	0				ŞÜ
RELOCATION COS	TS (PHAS Replace	E 45) ment Housing	pri are e di aperimento.			Number	=					5 0
RELOCATION COST 28. Owner 29. Tenant	TS (PHAS	E 45) ment Housing	pri are e di aperimento.	\$25,000 \$25,000	x	Number 0	= =	0				30
RELOCATION COST 28. Owner 29. Tenant 30. Residential	TS (PHAS Replace Move Co	E 45) ment Housing	pri are e di aperimento.	\$25,000 \$25,000 \$3,000	x x	Number 0 0	= =	0				30
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm	TS (PHAS Replace Move Co	E 45) ment Housing	pri are e di aperimento.	\$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0	= = =	000000000000000000000000000000000000000				30
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope	TS (PHAS Replace Move Co 1 erty	E 45) ment Housing	pri are e di aperimento.	\$25,000 \$25,000 \$3,000	x x	Number 0 0	= = = = = = = = = = = = = = = = = = = =	0				
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3	TS (PHAS Replace Move Co I erty 32)	E 45) ment Housing osts	pri are e di aperimento.	\$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0				\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser	TS (PHAS Replace Move Co I erty 32)	E 45) ment Housing osts	pri are e di aperimento.	\$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0	= =	000000000000000000000000000000000000000				
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35.	TS (PHAS Replace Move Co I erty 32)	E 45) ment Housing osts	pri are e di aperimento.	\$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0				
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36.	TS (PHAS Replace Move Co I erty 32)	E 45) ment Housing osts	pri are e di aperimento.	\$25,000 \$25,000 \$3,000 \$30,000	x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45			\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37.	TS (PHAS Replace Move Co I erty 32) rvices Cos	E 45) ment Housing osts	pri are e di aperimento.	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x	Number 0 0 0 0 \$0 \$0	= =	0 0 0 0	TOTAL PHASE 45	Ē		
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate:	TS (PHAS Replace Move Co erty 32) rvices Cos	E 45) ment Housing ests	pri are e di aperimento.	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000	x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date:	E 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.:	TS (PHAS Replace Move Co etty 32) rvices Cos Roger D. Alfred J.	E 45) ment Housing sts Patton Thompson	pri are e di aperimento.	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x	Number 0 0 0 0 \$0 \$0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date:	E 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation:	TS (PHAS Replace Move Co erty 32) rvices Cos Roger D. Alfred J. Roger D.	E 45) ment Housing sts rt Patton Thompson Patton	pri are e di aperimento.	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x	Number 0 0 0 0 \$0 \$0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. :	TS (PHAS Replace Move Co erty 32) rvices Cos Roger D. Alfred J. Roger D.	E 45) ment Housing sts Patton Thompson	pri are e di aperimento.	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x	Number 0 0 0 0 \$0 \$0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date:	E 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review:	TS (PHAS Replace Move Co erty 32) rvices Cos Roger D Alfred J Roger D Alfred J	E 45) ment Housing sts rt Patton Thompson Patton	g	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequ	TS (PHAS Replace Move Co erty 32) rvices Cos Roger D Alfred J Roger D Alfred J	E 45) ment Housing sts rt Patton Thompson Patton	pri are e di aperimento.	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x	Number 0 0 0 0 \$0 \$0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review:	TS (PHAS Replace Move Co erty 32) rvices Cos Roger D Alfred J Roger D Alfred J	E 45) ment Housing sts rt Patton Thompson Patton	g	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequ	TS (PHAS Replace Move Co erty 32) rvices Cos Roger D Alfred J Roger D Alfred J	E 45) ment Housing sts rt Patton Thompson Patton	g	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequ	TS (PHAS Replace Move Co erty 32) rvices Cos Roger D Alfred J Roger D Alfred J	E 45) ment Housing sts rt Patton Thompson Patton	g	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequ	TS (PHAS Replace Move Co erty 32) rvices Cos Roger D Alfred J Roger D Alfred J	E 45) ment Housing sts rt Patton Thompson Patton	g	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequ	TS (PHAS Replace Move Co erty 32) rvices Cos Roger D Alfred J Roger D Alfred J	E 45) ment Housing sts rt Patton Thompson Patton	g	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequ	TS (PHAS Replace Move Co erty 32) rvices Cos Roger D Alfred J Roger D Alfred J	E 45) ment Housing sts rt Patton Thompson Patton	g	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
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RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequence REMARKS:	Move Conserved States (PHAS Replace Move Conserved States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States (Phase States Coserved States Coserved States (Phase States Coserved States (Phase States Coserved States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States (Phase States Coserved States Coserved States Coserved States (Phase States Coserved States Cose	E 45) ment Housing sts Patton Thompson Patton Thompson	Dated:	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed:	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequ	TS (PHAS Replace Move Co etty 32) rvices Cos Roger D. Alfred J. Roger D. Alfred J. uence #:	E 45) ment Housing sts Patton Thompson Patton Thompson	Dated:	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 Signed: Signed: Signed:	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequ REMARKS:	TS (PHAS Replace Move Co etty 32) rvices Cos Roger D. Alfred J. Roger D. Alfred J. uence #:	E 45) ment Housing sts Patton Thompson Patton Thompson Thompson	Dated:	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequence REMARKS:	Replace Move Conserving States the Type A - Type B - Typ	E 45) ment Housing sts Patton Thompson Patton Thompson Thompson	Dated:	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Confidence	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequence REMARKS:	Replace Move Conservices Cos Roger D. Alfred J. Roger D. Alfred J. uence #:	E 45) ment Housing sts Patton Thompson Patton Thompson Thompson Thompson	Dated:	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Confidence Confidence	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequence REMARKS:	Replace Move Conservices Cos Roger D. Alfred J. Roger D. Alfred J. uence #:	E 45) ment Housing sts Patton Thompson Patton Thompson Thompson	Dated:	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Confidence Confidence	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequ REMARKS: The following indi	Replace Move Connective Roger D. Alfred J. Roger D. Alfred J. uence #:	E 45) ment Housing sts st Patton Thompson Patton Thompson Thompson Thompson Thompson	Dated: Dated: onfidence in a most confidence average low average eleast or no	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Confidence Confidence Confidence Confidence	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequence REMARKS:	Roger D. Alfred J. Roger B. Alfred J. Roger B. Type A. Type B. Type C. Type D. Cates the	E 45) ment Housing sts st Patton Thompson Patton Thompson Thompson Thompson Thompson	Dated: Dated: onfidence in a most confidence average low average eleast or no	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Confidence Confidence Confidence Confidence	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = = = = = = = = = = = = = = = = =	(All Phases)	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Data Input Complet	E 04/07/24 04/07/24 04/07/24 04/07/24		\$0
RELOCATION COST 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prope 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequ REMARKS: The following indivition	Roger D. Alfred J. Roger B. Alfred J. Roger B. Type A. Type B. Type C. Type D. Cates the	E 45) ment Housing sts st Patton Thompson Patton Thompson Thompson Thompson Thompson	Dated: Dated: onfidence in a most confidence average low average eleast or no	\$25,000 \$25,000 \$3,000 \$30,000 \$3,000 \$3,000 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Confidence confidence confidence confidence r this estimate:	x x x x	Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = = = = = = = = = = = = = = = = =	0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMAT Date: Date: Date: Date: Date:	E		\$0

				ARTMENT OF T				HDR#:	10375841-2.27	
FM#: 447157-1		Alternate:	_	SMF5-3	AT 000	LOTHNATE	District:	пота.	Seven	
County: Hillsboro	ugh	Segment:		N/A			Date:		25-Mar-24	
State Rd.: SR 600	Dand From C of UC 02 to	FAP#:	-ם בו	N/A			C.E. Sequence		N/A	
Project Des. McIntosh Parcels Gross	Road From S of US 92 to Net	North of Dickey H	iu. Po	ina Sites		Estimated Relo	ocatees:			
Commercial 0	0					Business	9	0		
Residential 1	<u>1</u> 0					Residential Signs		1		
Unimproved 0	<u> </u>					Special	a			
Total Parcels 1	1					Total Relocate	es	1		
R/W SUPPORT COSTS (PHAS	E 41)				TO PROPERTY AND INC.		Amount			
1. Direct Labor Cost	(Parcels	1	X	20,000 =	Rate		20,000			
2. Indirect Overhead	(Parcels	1	X		Rate)	0			620.000
3.		and the second second					TOTAL PHASE 41	one of the contract of the contract of the		\$20,000
R/W OPS (PHASE 4B) 4. Appraisal Fees Through 1	wia!				1	Parcels	x 35,000 =	Amount 35,000		
5. Business Damage CPA Fe					0		x 25,000 =	35,000		
6. Court Reporter & Process		50%	x	1 =	1	224	x 500 =	500		
7. Expert Witness		75%	X	1=	1		x 30,000 =	30,000		
8. Mediators 9. Demolition, Asb. Abate.,	Survey etc	75%	X	=	1 2		x 3,500 = x 20,000 =	3,500 40,000		
10. Miscellaneous Contracts					1	Per Project		15,000		
11. Appraisal Fee Review					0	Parcels >		0		
12.			Control of the last		T. Market Market and		TOTAL PHASE 4B			\$124,000
R/W LAND COSTS (PHASE 43							Amount	Subtotal		
13. Land, Improvements & Se		- APP		, and the second	_	ž				
and Cost to Cure Amount		0	X		Design p		= 0			
14. Water Retention & Mit. (1 15. SUBTOTAL (67,954 SF)	Pona)	1,054,540	Х	120% (0	(Lines 13	/o R/W Acq)	1,265,400	1,265,400		
These were a second respectively.	Factor	20%	x	60% of	Line 15)	Q14)	151,800	1,205,400		
The state of the s	Factor	45%	x		Line 15)		227,800			
	Claims	0	X	0)		-				
19. Bus. Damages Incrs.	Factor	25%	x	\$ -)		=	= 0			
20. Owner Appr. Fees	Parcels	1	X	\$30,000)		-	30,000			
	Claims	0	X	\$25,000		-				
1	Sum of Lines 16, 17 & 19)	379,600	х	33%)	40.00		125,300			
23. Owner Expert Witness 24. Other Condemn, Costs	Comm.+Unimp.)	0	+	0)x	18,000	1	= 0 1,000			
25. SUBTOTAL			X	\$1,000	(Lines 16	thru 24)	1,000	535,900		
26.					(211100 10		TOTAL PHASE 43	000/000		1,801,300
* Design contingency for de.										
(1) PD&E plans - 120%	(2) 30% plans - 115% (3)	e) 60% plans - 110%	6 (4)	90% plans -105%	(5) 268 Dat	te -100%				a de sale a servicio e e e e e e e e e e e e e e e e e e e
R/W ACQUISITION CONSULT										
27. Acquisition Consultant-50	THE RESERVE AND ADDRESS OF THE PARTY OF THE	\$20,000	X	0			TOTAL PHASE 42			\$0
RELOCATION COSTS (PHASE										
Replacer 28. Owner	nent Housing	6 2F 000		Number		Amount				
29. Tenant		\$25,000 \$25,000	X X	1	=	25,000				
Move Cos	sts	Ψ23,000	^		_					
30. Residential		\$3,000	x	1	=	3,000				
31. Business/Farm		\$30,000	Х	0	=	0				
32. Personal Property		\$3,000	Х	0	=	0				400.000
33. (Lines 28 thru 32) 34. Relocation Services Cost				60 000	/N-4:- D	L T-4-IV	TOTAL PHASE 45			\$28,000
35.				\$2,800	(Not in P	hase Total)				
36.						······································				
37.						(All Phases)	TOTAL ESTIMATE			1,973,300
Real Estate: Roger D.I	Patton	Signed:	F	Dallen_			Date:	04/07/24		
Bus. Dam. : Alfred J.	Thompson	Signed:			a. V. J.	hompson	Date:	04/07/24		
Relocation: Roger D.I Overall Review: Alfred J.	Patton Thompson	_Signed: _	13	DOUBL ,	1		_ Date:	04/07/24 04/07/24		
Overall Review: Alfred J.	Inompson	_Signed: _			.y. V.	hompson	Date:	04/07/24		
Cost Estimate Sequence #:	Dated:		In th	e Amount of \$	U	/ 1	Data Input Completic	on Date:		
REMARKS:					la camera em					
The following indicates the e	estimator's confidence i	n the above estima	ite:							
Type A - i Type B - i x Type C - i	ndicates the most confi ndicates above average ndicates below average ndicates the least or no	dence confidence confidence								
The following indicates the I Work Program Update: Comments:	Department's purpose fo	r this estimate: Gaming 1:			Special I	Ourpose:	х	Docs to RW:		

						ARTMENT OF N RIGHT OF W				HDR#:	10375841-2.27	
FRAU.	447457.4				VL		AT COS	LESTIMATE	Districts	non#.	Seven	
FM#: County:	447157-1 Hillsbor			Alternate: Segment:		FPC 1-1 N/A			District: Date:		Seven 6-Jun-24	
State Rd.:	SR 600	oug		FAP#:		N/A			C.E. Sequence		N/A	
Project Des.			S of US 92 to	North of Dickey F	d. P	ond Sites						
Parcels Commercial	Gross 0	Net 0						Estimated Relo Business	catees:	0		
Residential	- 0	0						Residential				
Unimproved	0	0						Signs		0		
_								Special		0		
Total Parcels	0			areast from the property and the	-0.4.0		Commence and a little of	Total Relocate	es	1		
R/W SUPPORT CO									Amount			
1. Direct Labor Co		100	rcels	0	X	20,000 =		ž.	0			
2. Indirect Overhe	ad	(Pai	rcels	0	X	=	Rate	!)	TOTAL PHASE 41			\$0
3.			in the Parish of the Sandara						TUTAL PHASE 41		LOCKED DISPLACEMENT	ŞU
R/W OPS (PHASE 4 4. Appraisal Fees		Trial					0	Parcels :	x 35,000 =	Amount 0		
5. Business Dama			Trial				0		35,000 = 25,000 =	0		
6. Court Reporter			11101	50%	X	0 =	. 0		K 500 =	0		
7. Expert Witness	5			75%	X	0 =	0	Parcels :	x 30,000 =	0		
8. Mediators				75%	X	0 =		10 000000000000000000000000000000000000	x 3,500 =	0		
 Demolition, As Miscellaneous 							0	And a second by a respect of the second seco	x 20,000 =	0 15,000		
11. Appraisal Fee		S					1 0	Per Project > Parcels >	n financia	15,000 N		
12.							U	1 010013	TOTAL PHASE 4B			\$15,000
R/W LAND COSTS	(DHACE A	3)	A STATE OF THE PARTY OF THE PAR				1 - 16 - 16 - 16 - 16 - 16 - 16 - 16 -			Subtotal		THE RESERVE THE PERSON NAMED IN
13. Land, Improver			manec						Amount	JUDIOIGI		
and Cost to Cu			mayes	0	х	120%	* Design p	nlan stane -	. 0			
14. Water Retention				622,828	X			v/o R/W Acq)	747,400			
15. SUBTOTAL (13		ond/		022,020	^	120/0	Lines 13)		77,700	747,400		
16. Admin. Settlen		(Factor		20%	х	60% o	f Line 15)	======	89,700	- 1171.00		
17. Litigation Awa		(Factor		45%	x		f Line 15)		134,500			
18. Business Dama		(Claims		0	х	0)		=	. 0			
19. Bus. Damages	_	(Factor		25%	х	\$ -)		=	. 0			
20. Owner Appr. Fo	ees	(Parcels		0	X	\$30,000)		=	0			
21. Owner CPA Fe		(Claims		0	X	\$25,000)		=	=0			
22. Defend.Atty Fe		(Sum of Lines 1	6, 17 & 19)	224,200	X	33%)		-	74,000			
23. Owner Expert \		(Comm.+Uni	imp.)	0	+	0)	x18,00	<u>0</u> =	0			
24. Other Condemi	1. Costs			0	X	\$1,000			=0			
25. SUBTOTAL							(Lines 16	6 thru 24) =		298,200		04 04E 000
26. * Design continue		!							TOTAL PHASE 43			\$1,045,600
Doorgii domango) 60% nlans - 1109	6 14	90% plans -105%	(5) 268 Da	nte -100%				
R/W ACQUISITION	The second second second	Name of the latest and the latest an	and the second second second	, coro prano 1107	0 1 1/	conspicule recin	10, 200 24			STATE OF THE STATE OF		
27. Acquisition Co				\$20,000	x	0			TOTAL PHASE 42			\$0
RELOCATION COS	-			\$20,000	^	U	_		TOTAL THASE 42	an Asia no na 1805. O 1865 alian ani anto		ψU
NELUCATION COS		c 45) ment Housin	ın.			Number		Amount				
28. Owner	пертасс	illelit Housill	y	\$41,200	x	1	=	41,200				
29. Tenant					^							
LJ. I CIIdill					X	0	<u> </u>	0				
23. I Glidiil	Move Co	osts		\$25,000	X	0	=	0				
30. Residential	Move Co	osts			x	0	=	3,000				
30. Residential 31. Business/Farm		osts		\$25,000 \$3,000 \$53,200	x x	1 0		3,000				
30. Residential 31. Business/Farm 32. Personal Propo	erty	osts		\$25,000 \$3,000	x	1	=	3,000	·			
30. Residential 31. Business/Farm 32. Personal Propo 33. (Lines 28 thru 3	erty (2)			\$25,000 \$3,000 \$53,200	x x	1 0 0	= =	3,000	TOTAL PHASE 45			\$44,200
30. Residential 31. Business/Farm 32. Personal Propo 33. (Lines 28 thru 3 34. Relocation Sei	erty (2)			\$25,000 \$3,000 \$53,200	x x	1 0	= =	3,000	TOTAL PHASE 45			\$44,200
30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Ser 35.	erty (2)			\$25,000 \$3,000 \$53,200	x x	1 0 0	= =	3,000	TOTAL PHASE 45			\$44,200
30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Ser 35. 36.	erty (2)			\$25,000 \$3,000 \$53,200	x x	1 0 0	= =	3,000 0 0 0				
30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Ser 35. 36.	erty 32) vices Cos	st		\$25,000 \$3,000 \$53,200 \$3,000	x x x	1 0 0 0 \$4,420	= =	3,000	TOTAL ESTIMATE			\$44,200 \$1,104,800
30. Residential 31. Business/Farm 32. Personal Proposition Serial 34. Relocation Serial 35. 36. 37. Real Estate:	erty 22) vices Cos Roger D	st .Patton		\$25,000 \$3,000 \$53,200 \$3,000 \$3,000	x x x	1 0 0	= =	3,000 0 0 0	TOTAL ESTIMATE	06/12/24		
30. Residential 31. Business/Farm 32. Personal Proposition Series 28 thru 3 34. Relocation Series 35. 36. 37. Real Estate:	erty (2) vices Cos Roger D Alfred J	.Patton		\$25,000 \$3,000 \$53,200 \$3,000 \$3,000 Signed: Signed:	x x x	1 0 0 0 \$4,420	= =	3,000 0 0 0	TOTAL ESTIMATE Date: Date:	06/12/24 06/12/24		
30. Residential 31. Business/Farm 32. Personal Proposition 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.: Relocation:	Roger D Alfred J Roger D	.Patton		\$25,000 \$3,000 \$53,200 \$3,000 \$3,000	x x x	1 0 0 0 \$4,420	= =	3,000 0 0 0	TOTAL ESTIMATE	06/12/24		
30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review:	Roger D Alfred J Alfred J	.Patton .Thompson .Patton		\$25,000 \$3,000 \$53,200 \$3,000 \$3,000 Signed: Signed: Signed:	x x x	\$4,420 \$4,420	= =	3,000 0 0 0 0 (All Phases)	TOTAL ESTIMATE Date: Date: Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24		
30. Residential 31. Business/Farm 32. Personal Propi 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Sequ	Roger D Alfred J Alfred J	.Patton .Thompson .Patton	Dated:	\$25,000 \$3,000 \$53,200 \$3,000 \$3,000 Signed: Signed: Signed:	x x x	1 0 0 0 \$4,420	= =	3,000 0 0 0 0 (All Phases)	TOTAL ESTIMATE Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24		
30. Residential 31. Business/Farm 32. Personal Proposition 33. (Lines 28 thru 3 34. Relocation Ser 35. 36. 37. Real Estate: Bus. Dam.:	Roger D Alfred J Alfred J	.Patton .Thompson .Patton	Dated:	\$25,000 \$3,000 \$53,200 \$3,000 \$3,000 Signed: Signed: Signed:	x x x	\$4,420 \$4,420	= =	3,000 0 0 0 0 (All Phases)	TOTAL ESTIMATE Date: Date: Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24		
30. Residential 31. Business/Farm 32. Personal Propi 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Sequ	Roger D Alfred J Alfred J	.Patton .Thompson .Patton	Dated:	\$25,000 \$3,000 \$53,200 \$3,000 \$3,000 Signed: Signed: Signed:	x x x	\$4,420 \$4,420	= =	3,000 0 0 0 0 (All Phases)	TOTAL ESTIMATE Date: Date: Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24		
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FM#:	447157-	1	and the later of the said	Alternate:	CVC	FPC 2-1	JF VV	41 603	ESTIMAT	Е	District:	пик#:	103/5841-2.2/ Seven
County:	Hillsbo		50	Segment:		N/A					Date:		6-Jun-24
State Rd.:	SR 600			FAP#:		N/A					C.E. Sequence		N/A
Project Des. Parcels	McInto: Gross	sh Road From S o	of US 92 to N	lorth of Dickey I	Rd. P	ond Sites			Estimated Re	alas			
Commercial	1000								Business	2100	Jalees.	0	
Residential		0							Residential			0	
Unimproved	(0							Signs			0	
Total Parcels	(0 0							Special Total Relocat	tee	s	0	
R/W SUPPORT CO	STS (PHA	ASE 41)			e come co	decode (Vel produce)		The state of the s			Amount		
1. Direct Labor Co	ost	(Parcel	ls _	0	X	20,	= 000	Rate)		0		
2. Indirect Overhe	ead	(Parcel	ls _	0	X		=	Rate)		0		
3.	aD)		- Towards his an industrial		400	Control Street	THE THE BA	The second	er former on heavy for the first	(B) (B) (C)	TOTAL PHASE 41		
R/W OPS (PHASE 4. Appraisal Fees		Trial						0	Parcels	х	35,000 =	Amount 0	
5. Business Dam			ial					Ö	Claims	X	tant discountry		
6. Court Reporter		ss Servers	_	50%	X	0	=	0	Parcels	X			
7. Expert Witnes: 8. Mediators	S		-	75% 75%	X	0	=	0	Parcels Parcels	X			
9. Demolition, As	sb. Abate.	, Survey, etc.	-	7370	^			0	Imprvmet	X			
10. Miscellaneous	s Contrac							1	Per Project		15,000 =		
11. Appraisal Fee	Review							0	Parcels	X	5,000 =		¢1E (
12.	/DUACE	12)		METHOD AND AND ADMINISTRATION OF	T 11 6 12			Var AMED IV ZII	AU	KINIFO	TOTAL PHASE 4B		\$15,0
R/W LAND COSTS 13. Land, Improve			aes								Amount	Subtotal	
and Cost to Cu		1.0	300	0	х	12	20% *	Design p	lan stage	=	0		
14. Water Retention	on & Mit.			386,552	x				o R/W Acq)		463,900		
15. SUBTOTAL (23								(Lines 13	&14)			463,900	
16. Admin. Settlen		(Factor	_	20%	X		and the same of the same of	Line 15)		=	55,700		
17. Litigation Awa		(Factor	_	45%	X	4		Line 15)		=	83,500		
 Business Dam Bus. Damages 	-	(Claims (Factor	-	0 25%	X	\$ -	<u> </u>			=	0		
20. Owner Appr. F		(Parcels	-	0	X	\$30,				-	0		
21. Owner CPA Fe		(Claims	=	0	х		000)			=	0		
22. Defend.Atty Fe		(Sum of Lines 16, 17	' & 19)	139,200	X	3	33%)			=	45,900		
23. Owner Expert		(Comm.+Unimp.	.) _	0	+	,	<u>0</u>)x	18,000	<u>ı</u>	=	0		
24. Other Condem	n. Costs		_	0	X	\$1,	000	//: 40		=	0	405 400	
25. SUBTOTAL 26.								(Lines 16	tnru 24)	=	TOTAL PHASE 43	185,100	\$649,0
* Design continge		lesign plan stage.	,,								TOTAL TIMOL IO		40.1076
THE RESIDENCE OF THE PARTY OF T		6 (2) 30% plans -	- 115% (3) &	60% plans - 110%	% (4)	90% plans -	105%	(5) 268 Dai	te -100%		North Santa Alexander		
R/W ACQUISITION	CONSU	6 (2) 30% plans - TANT (PHASE 42	- 115% (3) &			90% plans - 1		(5) 268 Dat	te -100%		TOTAL DUASE 42		
R/W ACQUISITION 27. Acquisition Co	I CONSUI	% (2) 30% plans - TANT (PHASE 42 50% of parcels	- 115% (3) &	\$20,000	% (4) ×	90% plans - 1	0	(5) 268 Da	te -100%		TOTAL PHASE 42		
R/W ACQUISITION	I CONSUI onsultant-! TS (PHAS	6 (2) 30% plans - TANT (PHASE 42 50% of parcels SE 45)	- 115% (3) &				0	(5) 268 Da	Amount		TOTAL PHASE 42		
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner	I CONSUI onsultant-! TS (PHAS	% (2) 30% plans - TANT (PHASE 42 50% of parcels	- 115% (3) &			90% plans - Num	0	(5) 268 Date			TOTAL PHASE 42		
R/W ACQUISITION 27. Acquisition Co RELOCATION COS	I CONSUI onsultant-! TS (PHAS Replace	6 (2) 30% plans - TANT (PHASE 42 50% of parcels EE 45) ement Housing	- 115% (3) &	\$20,000	х		0 ber	= = =	Amount	0	TOTAL PHASE 42		
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant	I CONSUI onsultant-! TS (PHAS	6 (2) 30% plans - TANT (PHASE 42 50% of parcels EE 45) ement Housing	- 115% (3) &	\$20,000 \$41,200 \$25,000	x x x		0 ber 0 0	= = =	Amount 0	<u>0</u>	TOTAL PHASE 42		
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential	I CONSUI onsultant-! TS (PHAS Replace Move C	6 (2) 30% plans - TANT (PHASE 42 50% of parcels EE 45) ement Housing	- 115% (3) &	\$20,000 \$41,200 \$25,000 \$3,000	x x x		0 ber 0 0	= =	Amount 0	<u>0</u> 0	TOTAL PHASE 42		
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant	I CONSUI onsultant-t TS (PHAS Replace Move C	6 (2) 30% plans - TANT (PHASE 42 50% of parcels EE 45) ement Housing	- 115% (3) &	\$20,000 \$41,200 \$25,000	x x x		0 ber 0 0	= = = = = = = = = = = = = = = = = = =	Amount 0	<u>0</u>	TOTAL PHASE 42		
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3	I CONSUI onsultant-t TS (PHAS Replace Move C n erty 32)	6 (2) 30% plans - TANT (PHASE 42 50% of parcels EE 45) ement Housing	- 115% (3) &	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200	x x x		0 ber 0 0 0	= = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	TOTAL PHASE 42		
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R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sei 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Segi	I CONSUI onsultant-I TS (PHAS Replace Move C n erty 32) rvices Co Alfred J Alfred J		- 115% (3) &	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200 \$3,000 \$3igned: Signed:	x x x x	Num	0 ber 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24	
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R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sei 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seqi REMARKS:	Roger D Alfred J Roger B Alfred J Roger B Alfred J Roger B Alfred J	A. (2) 30% plans - LTANT (PHASE 42 50% of parcels EE 45) ement Housing osts Patton Thompson Patton Thompson Thompson	s S S S S S S S S S S S S S S S S S S S	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200 \$3,000 \$3,000 Signed: Signed: Signed: Signed: Signed:	x x x x x ln ti	Num	0 ber 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24	
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sei 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seqi REMARKS:	Roger D Alfred J Roger B Alfred J Roger B Type A Type A Type B Type C	estimator's confinitioates the military indicates above indicates below	fidence in the ost confidence average cov average cov	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200 \$3,000 \$Signed: Signed: Signed: Signed: Confidence onfidence	x x x x x ln ti	Num	0 ber 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24	
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Roger D Alfred J Roger B Alfred J Roger B Type A Type A Type B Type C	A (2) 30% plans - LANT (PHASE 42 50% of parcels EE 45) ement Housing osts LPatton LThompson Patton LThompson Control LT	fidence in the ost confidence average cov average cov	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200 \$3,000 \$Signed: Signed: Signed: Signed: Confidence onfidence	x x x x x ln ti	Num	0 ber 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24	
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sel 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS:	Roger D Alfred J Roger B Alfred J Roger B Alfred J Type A Type B Type D Type D	estimator's confinidicates the meindicates the lecture indicates indicates the lecture indicates indicates indicates the lecture indicates indicat	fidence in the confidence average coverage cover	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200 \$3,000 \$5igned: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x ln ti	Num	0 ber 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24	
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam. : Relocation: Overall Review: Cost Estimate Seq REMARKS:	Roger D Alfred J Roger B Alfred J Roger B Alfred J Type A Type B Type C Type D Cates the	estimator's confinidicates the meindicates the lecture indicates indicates the lecture indicates indicates indicates the lecture indicates indicat	fidence in the confidence of the confidence of the confidence average converges of the confidence of t	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200 \$3,000 \$3igned: Signed:	x x x x x ln ti	Num	0 ber 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 hase Total) (All Phases)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date: Total Completive of the comp	06/12/24 06/12/24 06/12/24 06/12/24 on Date:	
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sel 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seq REMARKS: The following indi	Roger D Alfred J Roger B Alfred J Roger B Alfred J Type A Type B Type C Type D Cates the	estimator's confinidicates the meindicates the lecture indicates indicates the lecture indicates indicates indicates the lecture indicates indicat	fidence in the confidence of the confidence of the confidence average converges of the confidence of t	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200 \$3,000 \$5igned: Signed: Signed: Signed: Signed: Signed: Signed: Signed: Signed:	x x x x x ln ti	Num	0 ber 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = =	Amount 0 0 0 0 0 hase Total) (All Phases)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24	

					ARTMENT OF N RIGHT OF W					HDR#:	10375841-2.27	
FM#:	447157-1		Alternate:		FPC 3-2	A1 000	T LOTHVIA		District:	monn.	Seven	
County:	Hillsbor		Segment:		N/A				Date:		25-Mar-24	- 1
State Rd.:	SR 600	L D1 F C - (110 00 4-	FAP#:	a n	N/A				C.E. Sequence		N/A	1
Project Des. Parcels	Gross	h Road From S of US 92 to Net	NOTTH OF DICKEY F	a. P	ona Sites		Estimated R	elo	catees:			
Commercial	0	0					Business			0		- 1
Residential	0	1					Residential			0		- 1
Unimproved		1					Signs Special					- 1
Total Parcels	1	1					Total Reloc	atee	es	0		
R/W SUPPORT COS	TS (PHA	SE 41)				THE RESERVE AND ADDRESS OF THE PARTY OF THE		dea We	Amount			
1. Direct Labor Cos		(Parcels	1	X	20,000 =		50.40		20,000			i
2. Indirect Overhea	ad	(Parcels	1	X		Rat	e)		O TOTAL DUACE 44			\$20.000
3.	D\	5-0-01-00-45-4-5-0-2-17-17-17-17-17-17-17-17-17-17-17-17-17-	HARLEST CONTRACTOR (CARLE)	NAT THE	No series war to be a	Over 11, XXII OF TRANS		-	TOTAL PHASE 41	A	Control of the Contro	\$20,000
R/W OPS (PHASE 4 4. Appraisal Fees		Trial				1	Parcels	х	35,000 =	Amount 35,000		1
5. Business Dama						0	Claims	X		0		1
6. Court Reporter		s Servers	50%	X	=	: 1	Parcels	х		500		- 1
7. Expert Witness 8. Mediators			75% 75%	X	1 =		Parcels Parcels	X		30,000 3,500		1
9. Demolition, Ash	b. Abate	Survey, etc.	7570	X	=	0	Imprvmet	X	2.2702.2	0,500		1
10. Miscellaneous	Contract					1	Per Project		15,000 =	15,000		- 1
11. Appraisal Fee F	Review					0	Parcels	X	10,600.00	0		404.000
12.				100			100 L-1 (24)		TOTAL PHASE 4B		TO MENTAL STOLEN	\$84,000
R/W LAND COSTS (Amount	Subtotal		
13. Land, Improvem and Cost to Cui		everance Damages	•		4200/	* Pacin	nlan atas-	gar.	0			
14. Water Retentio			2,466,143	x			<i>plan stage</i> w/o R/W Acq)	=	2,959,400			
15. SUBTOTAL (299	155	1 T Only	2,400,143	^	120 /0 (Lines 1			2,333,400	2,959,400		1
16. Admin. Settlem		(Factor	20%	x	60% (of Line 15)	a lasten.	=	355,100			
17. Litigation Awar	rds	(Factor	45%	x	40% (of Line 15)		=	532,700			
18. Business Dama	-	(Claims	0	X	0)			=	0			1
19. Bus. Damages I		(Factor	25%	X	\$ -)			=	0			
20. Owner Appr. Fe 21. Owner CPA Fee		(Parcels (Claims	1	X	\$30,000)			=	30,000			
22. Defend.Atty Fee		(Sum of Lines 16, 17 & 19)	887,800	X	\$25,000) 33%)			=	293,000			
23. Owner Expert V		(Comm.+Unimp.)	007,000	+	1)	x 18,0	00	_	18,000			
24. Other Condemn		, a series (1	x	\$1,000		_	=	1,000			
25. SUBTOTAL						(Lines 1	6 thru 24)	=		1,229,800		
26.									TOTAL PHASE 43		-	\$4,189,200
* Design continger	ncy for de ns - 120%	esign plan stage: - (2) 30% plans - 115% (3)) 60% nlans - 110%	6 14	90% nlans -105%	(5) 268 D	ate -100%					
R/W ACQUISITION	THE REAL PROPERTY.	CONTRACTOR STORY OF THE STORY O		1 -/		10, 2002						
27. Acquisition Cor		and the same of th	\$20,000	x	0				TOTAL PHASE 42			\$0
RELOCATION COST	S (PHAS	E 45)						-		at other are last Cart		restitu batt
		ment Housing			Number		Amount					
28. Owner			\$41,200	X	0	=		0				
29. Tenant	Maua Ca		\$25,000	X	0	=		0				
30. Residential	Move Co	ISTS	\$3,000	х	0	_		0				
31. Business/Farm			\$53,200	x	0	=		0				
32. Personal Prope			\$3,000	x	0	=		0				
33. (Lines 28 thru 3									TOTAL PHASE 45			\$0
34. Relocation Ser	vices Cos	st			\$0	(Not in	Phase Total)	/			The second second	
35. 36.								_				
36. 37.							(All Phases)	TOTAL ESTIMATE	a de la companya de l		\$4,293,200
Real Estate:	Roger D.	Patton	Signed:	1	HO HIEM		1-21-11000	-	Date:	06/12/24		, ==,===
Bus. Dam. :	Alfred J.	Thompson	Signed:		THE PARTY NAMED IN COLUMN TO THE PARTY NAMED	a.v. v	hongson		Date:	06/12/24		
Relocation:	Roger D.		Signed:	1	A POHOM	= 1	-,		Date:	06/12/24		
Overall Review:	Altred J.	Thompson	_Signed: _	-		C-y. 7	hongsom		Date:	06/12/24		
Cost Estimate Sequ	ence #:	Dated:		In t	he Amount of \$	U	/	D	ata Input Completi	on Date:		
REMARKS:	December 1							APPEN	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT			
		It is recommended that th			nt ha valaantad ta		anado lina					
		It is recommended that the	ne permanent eas	eme	iit be relocated to	uie east pi	operty line.					1
The following indi-	naton the	actimator's confidence :-	the above setime	to			- Constitution and					
THE IONOWING INDIC		estimator's confidence in indicates the most confidence		æ:								
	Type B -	indicates above average	confidence									
х		indicates below average										
	ıype D -	indicates the least or no	contidence									
The following indic	cates the	Department's purpose for	r this estimate:					-				
Work Program Upd	ate:	paramont o parpose 101	Gaming 1:			Specia	Purpose:		x	Docs to RW:		
Comments:			a <u></u>			510	(55)					

1			DISTRICT SI	FVF	N RIGHT OF W	AY COST	FSTIMATE		HDR#:	10375841-2.27
FM#:	447157-	1	Alternate:	LAC	FPC 4-1	אויטט	LUTINATE	District:	IIDU#.	103/5841-2.2/ Seven
County:	Hillsbo		Segment:		N/A			Date:		25-Mar-24
State Rd.:	SR 600		FAP#:		N/A			C.E. Sequence		N/A
Project Des. Parcels	McIntos	sh Road From S of US 92 Net	to North of Dickey F	Rd. Po	ond Sites		Estimated Rel	ocatoos:		
Commercial		0 0					Business	ocatees.	0	2
Residential		0 0					Residential		0	
Unimproved	1	1 1					Signs		0	
Total Parcels	1	 1					Special Total Relocate	ees	0	
R/W SUPPORT CO	STS (PHA	ASE 41)						Amount		Control Course, or more preparation and control bed
1. Direct Labor Co	ost	(Parcels	1	X	20,000 =			20,000		
2. Indirect Overhe	ead	(Parcels	1	X		Rate)	0		200 000
3.	4D)			til ske to			Mary Control of Williams	TOTAL PHASE 41	A	\$20,000
R/W OPS (PHASE 4 4. Appraisal Fees		Trial				1	Parcels	x 35,000 =	Amount 35,000	
		Fees Through Trial				Ö	Medial P	x 25,000 =	0	
6. Court Reporter	r & Proce		50%	X	1 =	1		x 500 =	500	
7. Expert Witness	s		75%	X	=	(2)		x 30,000 =	30,000	
8. Mediators 9. Demolition, As	sh Ahate	Survey etc	75%	X	=	1 0		x 3,500 = x 20,000 =	3,500 0	
10. Miscellaneous	s Contrac					1	Per Project		15,000	
11. Appraisal Fee	Review					0	Parcels	x 5,000 =	0	
12.	7-2-20-20	gana na angangan katawa at a						TOTAL PHASE 4B		\$84,000
R/W LAND COSTS								Amount	Subtotal	
13. Land, Improver and Cost to Cu		Severance Damages	0	v	1200/-	* Design p	lan etana	_ 0		
14. Water Retention			3,812,368	x			/o R/W Acq)	= <u>0</u> 4,574,800		
15. SUBTOTAL (47		(11 onu)	3,012,300	^	120 /0 (0	Lines 13)	and the same of th	4,574,000	4,574,800	
16. Admin. Settlen	5	(Factor	20%	х	60% o	f Line 15)	ω,	= 549,000	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
17. Litigation Awa	ards	(Factor	45%	x	40% o	f Line 15)		= 823,500		
18. Business Dam	•	(Claims	0	X	0)			= 0		
19. Bus. Damages		(Factor	25%	X	\$ -)			=0		
20. Owner Appr. F		(Parcels	1	X	\$30,000)			= 30,000		
21. Owner CPA Fe 22. Defend.Atty Fe		(Claims (Sum of Lines 16, 17 & 19)	1,372,500	x x	\$25,000) 33%)			= <u>0</u> = 452,900		
23. Owner Expert		(Comm.+Unimp.)	1,372,300	+	1)	x 18,000	r .	= 432,500		
24. Other Condemi		(Committee)		x	\$1,000	A	_	= 1,000		
25. SUBTOTAL			0			(Lines 16	thru 24)	=	1,874,400	
26.	-							TOTAL PHASE 43		\$6,449,200
		lesign plan stage: % (2) 30% plans - 115%	/2 600/ -1 1100	2/ //1						
11/12 CL PIL		0 12/ 00/0 piano 110/0	(3) 00% pians - 110%	10 (4)	90% plans -105%	(5) 268 Dat	te -100%			
R/W ACQUISITION			(3) 60% pians - 110%	% (4)	90% plans -105%	(5) 268 Dat	te -100%			
R/W ACQUISITION 27. Acquisition Co	N CONSUI	LTANT (PHASE 42) 50% of parcels	\$20,000	% (4) X	<i>90% plans -105%</i> 0	(5) 268 Dat	te -100%	TOTAL PHASE 42		\$0
R/W ACQUISITION	ONSUI Onsultant- TS (PHAS	LTANT (PHASE 42) 50% of parcels SE 45)			0	(5) 268 Dat		TOTAL PHASE 42		\$0
R/W ACQUISITION 27. Acquisition Co RELOCATION COS	ONSUI Onsultant- TS (PHAS	LTANT (PHASE 42) 50% of parcels	\$20,000	х	0 Number	(5) 268 Dat	Amount	TOTAL PHASE 42		\$0
R/W ACQUISITION 27. Acquisition Co	ONSUI Onsultant- TS (PHAS	LTANT (PHASE 42) 50% of parcels SE 45)	\$20,000 \$41,200	x x	Number 0	(5) 268 Dat	Amount	TOTAL PHASE 42		\$0
R/W ACQUISITION 27. Acquisition Co RELOCATION COS' 28. Owner	ONSUI Onsultant- TS (PHAS	LTANT (PHASE 42) 50% of parcels SE 45) ement Housing	\$20,000	х	0 Number	=	Amount	TOTAL PHASE 42		\$0
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential	N CONSUI onsultant-! TS (PHAS Replace Move C	LTANT (PHASE 42) 50% of parcels SE 45) ement Housing	\$20,000 \$41,200 \$25,000 \$3,000	x x	Number 0 0	=	Amount 0 0	TOTAL PHASE 42		\$0
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm	N CONSUI onsultant-t TS (PHAS Replace Move C	LTANT (PHASE 42) 50% of parcels SE 45) ement Housing	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200	x x x	Number 0 0	= = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 42		\$0
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propo	N CONSUI onsultant- TS (PHAS Replace Move C	LTANT (PHASE 42) 50% of parcels SE 45) ement Housing	\$20,000 \$41,200 \$25,000 \$3,000	x x x	Number 0 0	- E	Amount 0 0			
R/W ACQUISITION 27. Acquisition Co RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farm	N CONSUI onsultant-t TS (PHAS Replace Move C n erty 32)	LTANT (PHASE 42) 50% of parcels SE 45) ement Housing	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200	x x x	0 Number 0 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 42		\$0
R/W ACQUISITION 27. Acquisition Co 27. Acquisition Co 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propi 33. (Lines 28 thru 3 34. Relocation Sei 35.	N CONSUI onsultant-t TS (PHAS Replace Move C n erty 32)	LTANT (PHASE 42) 50% of parcels SE 45) ement Housing	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200	x x x	Number 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0			
R/W ACQUISITION 27. Acquisition Co 27. Acquisition Co 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Set 35. 36.	N CONSUI onsultant-t TS (PHAS Replace Move C n erty 32)	LTANT (PHASE 42) 50% of parcels SE 45) ement Housing	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200	x x x	0 Number 0 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45		\$0
R/W ACQUISITION 27. Acquisition Co 27. Acquisition Co 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propi 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37.	N CONSUI onsultant- TS (PHAS Replace Move C 1 erty 32) rvices Co	LTANT (PHASE 42) 50% of parcels SE 45) ement Housing costs	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200 \$3,000	x x x x	0 Number 0 0 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45	Control of the Asset Ave.	
R/W ACQUISITION 27. Acquisition Co 27. Acquisition Co 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propi 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37. Real Estate:	N CONSUIT onsultant-1 TS (PHAS Replace Move C 1 erty 32) rvices Co	LTANT (PHASE 42) 50% of parcels SE 45) ement Housing costs	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200 \$3,000	x x x x	0 Number 0 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE Date:	06/12/24	\$0
R/W ACQUISITION 27. Acquisition Co 27. Acquisition Co 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Propi 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37.	M CONSUITOR SUITOR SUIT	LTANT (PHASE 42) 50% of parcels SE 45) ement Housing osts st	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200 \$3,000	x x x x	0 Number 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45	Control of the Asset Ave.	\$0
R/W ACQUISITION 27. Acquisition Co 27. Acquisition Co 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Set 35. 36. 37. Real Estate: Bus. Dam. :	M CONSUITOR SUITOR SUIT	LTANT (PHASE 42) 50% of parcels SE 45) ement Housing osts st	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200 \$3,000 \$3,000	x x x x	0 Number 0 0 0 0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date:	06/12/24 06/12/24	\$0
R/W ACQUISITION 27. Acquisition Co 27. Acquisition Co 28. Owner 29. Tenant 30. Residential 31. Business/Farm 32. Personal Prop 33. (Lines 28 thru 3 34. Relocation Sel 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review:	Move C Move C erty 32) Roger D Alfred J Roger D Alfred J	D.Patton J. Thompson J. Thompson J. Thompson	\$20,000 \$41,200 \$25,000 \$3,000 \$53,200 \$3,000 \$3igned: Signed: Signed: Signed:	x x x x x x x	Number 0 0 0 0 0 0 \$0	= = = = = = = = = = = = = = = = = = = =	Amount 0 0 0 0 0 0 0 0 0 Anse Total)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24	\$0
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FM#:	447157-1		Alternate:		FPC 5-1	A1 000	LOTHVIATE	District:	попя.	Seven
County:	Hillsbor		Segment:		N/A			Date:		25-Mar-24
State Rd.:	SR 600		FAP#:		N/A			C.E. Sequence		N/A
Project Des. Parcels	McIntos Gross	h Road From S of US 93 Net	2 to North of Dickey	Rd. P	ond Sites		Estimated Relo	ncatees:		
Commercial	0						Business	Julieus.	0	
Residential	0						Residential		1	
Unimproved	0	0					Signs		0	
Total Parcels	0	0					Special Total Relocate	98	0	
R/W SUPPORT CO			Company of the second				Total Holobato	Amount		Contacts Acres to a Company of the Co
1. Direct Labor C		(Parcels	0	х	20.000 =	Rate)	0		
2. Indirect Overh	ead	(Parcels	0	x	0 =	Rate	•	0		
3.	·	ř.	· · · · · · · · · · · · · · · · · · ·		-			TOTAL PHASE 41		\$1
R/W OPS (PHASE						and the second			Amount	Total Control of the State of t
4. Appraisal Fee						0		x 35,000 =	0	
6. Court Reporte		ees Through Trial	E00/		0	0	4 1 1	x 25,000 = x 500 =	0	
7. Expert Witnes		3 3614613	50% 75%	X	0 =	0	923 C	x 500 = x 30,000 =	0	
8. Mediators			75%	х	0 =	0	5-7	x 3,500 =	0	
9. Demolition, A			,			1	Stranger (Stranger) and the stranger ()	x 20,000 =	20,000	
10. Miscellaneou 11. Appraisal Fee		S				1 0	Per Project		15,000	
12.	TICALCAN					U	Parcels	TOTAL PHASE 4B	0	\$35,000
R/W LAND COSTS	C / DUAGE A	3)		ar and		LITE CANADA		Water Transport Control of the State of the	Subtotal	Ψ33,000
		_{১)} everance Damages						Amount	อนมเบเสโ	
and Cost to C		2 2 2 545-2 142-143-1-X	0	х	120% *	Design p	lan stage =	= 0		
14. Water Retenti			557,190	х			/o R/W Acq)	668,600		
15. SUBTOTAL (7						(Lines 13			668,600	
16. Admin. Settle		(Factor	20%	x	60% of	Line 15)	-	80,200		
17. Litigation Aw		(Factor	45%	X	40% of	Line 15)	=	= 120,300		
18. Business Dan		(Claims	0	X	0)		-	=0		
19. Bus. Damages		(Factor	25%	X	\$ -)			=0		
20. Owner Appr. I 21. Owner CPA Fo		(Parcels	0	X	\$30,000)		-	=0		
22. Defend.Atty Fo		(Claims (Sum of Lines 16, 17 & 19)	200 500	X	<u>\$25,000</u>)			= 0		
23. Owner Expert		(Comm.+Unimp.)	200,500	X +	0);	18,000	n -	= 66,200		
24. Other Condem		(Johnn. Folling.)		X	\$1,000	10,000		= 0		
25. SUBTOTAL					41,000	(Lines 16	thru 24) =		266,700	
26.								TOTAL PHASE 43		\$935,300
* Design conting	ency for de	esign plan stage:	(0) 000(1			/m/				
Printed and the second second second	AND DESIGNATION OF THE PERSON NAMED IN	(2) 30% plans - 115%	(3) 60% plans - 1105	% (4)	90% plans -105%	(5) 268 Da	te -100%			
					Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Ow	THE PERSON NAMED IN	-	The second secon	the distriction of the sections	- A Life And the Called And A Section (1997)
		TANT (PHASE 42)	400.000					TOTAL DUAGE 10		
27. Acquisition C	onsultant-5	0% of parcels	\$20,000	х	0			TOTAL PHASE 42		\$(
R/W ACQUISITION 27. Acquisition Cost	onsultant-5 STS (PHAS	0% of parcels E 45)	\$20,000	х				TOTAL PHASE 42		\$(
27. Acquisition Cos	onsultant-5 STS (PHAS	0% of parcels			Number		Amount	TOTAL PHASE 42		St
27. Acquisition C	onsultant-5 STS (PHAS	0% of parcels E 45)	\$41,200	х		= =	41,200	TOTAL PHASE 42		St
27. Acquisition Cos RELOCATION COS 28. Owner	onsultant-5 STS (PHAS	0% of parcels E 45) ment Housing			Number 1			TOTAL PHASE 42		St
27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential	onsultant-5 STS (PHAS Replace Move Co	0% of parcels E 45) ment Housing	\$41,200 \$25,000 \$3,000	х	Number 1		41,200	TOTAL PHASE 42		\$(
27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farn	onsultant-5 STS (PHAS Replace Move Co	0% of parcels E 45) ment Housing	\$41,200 \$25,000 \$3,000 \$53,200	x x x	Number 1		41,200 0 3,000 0	TOTAL PHASE 42		\$(
27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop	onsultant-5 STS (PHAS Replace Move Co n nerty	0% of parcels E 45) ment Housing	\$41,200 \$25,000 \$3,000	x x	Number 1 0		41,200 0 3,000	•		
27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru	onsultant-5 GTS (PHAS) Replace Move Co n nerty 32)	0% of parcels E 45) ment Housing	\$41,200 \$25,000 \$3,000 \$53,200	x x x	Number 1 0 1 0 0 0 0	= = =	3,000 0 0 0 0 0	TOTAL PHASE 42		\$44,200
27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se	onsultant-5 GTS (PHAS) Replace Move Co n nerty 32)	0% of parcels E 45) ment Housing	\$41,200 \$25,000 \$3,000 \$53,200	x x x	Number 1 0	= = =	41,200 0 3,000 0	•		
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27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam. : Relocation:	Move Commercy Strains C	0% of parcels E 45) ment Housing sts tt Patton Thompson Patton	\$41,200 \$25,000 \$3,000 \$53,200 \$3,000 Signed: Signed: Signed:	x x x x	Number 1 0 1 0 0 \$4,420	= = =	41,200 0 3,000 0 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24	\$44,200
27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seg	Move Commercy Strains C	O% of parcels E 45) ment Housing sts t Patton Thompson Patton Thompson	\$41,200 \$25,000 \$3,000 \$53,200 \$3,000 Signed: Signed: Signed:	x x x x	Number 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = =	41,200 0 3,000 0 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24	\$44,200
27. Acquisition C RELOCATION COS 28. Owner 29. Tenant 30. Residential 31. Business/Farr 32. Personal Prop 33. (Lines 28 thru 34. Relocation Se 35. 36. 37. Real Estate: Bus. Dam.: Relocation: Overall Review: Cost Estimate Seg	Move Commercy Strains C	O% of parcels E 45) ment Housing sts t Patton Thompson Patton Thompson	\$41,200 \$25,000 \$3,000 \$53,200 \$3,000 Signed: Signed: Signed:	x x x x	Number 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= = =	41,200 0 3,000 0 0 hase Total) (All Phases)	TOTAL PHASE 45 TOTAL ESTIMATE Date: Date: Date: Date:	06/12/24 06/12/24 06/12/24 06/12/24	\$44,200
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Appendix EPond Evaluation Matrices

Patel, Greene Associates, LLC FPID: 447157-1-32-01

								Flo	odplain Compensa	tion Pond Evaluation I	Matrix (DRAF	T) - Revised Sizes (bas	ed on higher S	SHGW from Ge	eotech)				
Bas	n Pond Site	FPC Parcel Area (ac)	Est. Construction Cost (\$)	Est. Right of Way Cost (\$) - Old - based on original acreages	Est. Total Cost (\$)	Estimated Wetland Impacts (ac).	Estimated Wetland Mitigation Cost (\$) ¹	Contamination Risk	Listed Species & Habitat Potential Impacts	Probability of Cultural Resources Assessment Survey (CRAS) Impacts	Potential Relocations ²	Recorded Archeological/Historic Sites	Utility Impacts	Total Parcel Acquisition		Change required based on updated geotechnical information	Multiply ROW cost by ratio of parcel size (not actual ROW costs - just for quick comparison) ³	Total Cost (based on quick ROW cost in column to the left	Preferred (preliminary, pending Pond Siting Meeting)
	FPC 1-1	3.21	\$62,744	\$229,800	\$292,544	0	0	Low	Med	TBD	None	TBD	None	1	1	Previous area 1.05 increased 3.06x	\$702,531	\$765,275	Preferred (Alternate Site not feasible due to high SHGW)
FPC	FPC 1-2															Not viable based on updated SHGW	NA	NA	
	FPC 2-1	5.46	\$205,216	\$653,200	\$858,416	0	0	Low	Low	TBD	None	TBD	None	1	1	Previous area 3.20 increased 1.71x	\$1,114,523	\$1,319,739	Preferred (Lower Cost, less contamination risk, fewer relocations)
	FPC 2- 2A,2-2B, 2- 2C Combined	6.49	\$174,188	\$6,154,000	\$6,328,188	0	0	Med	Med	TBD	1B	TBD	None	5		Previous area 5.49 increased		\$7,449,135	
FPC	2 FPC 2-2A	1.42	\$46,192	\$2,022,400	\$2,068,592	0	0	Med	Low	TBD	1B	TBD	None	1	2		\$7,274,947		
	FPC 2-2B	4.07	\$98,493	\$4,131,600	\$4,230,093	0	0	Med	Med	TBD	None	TBD	None	4		1.10x			
	FPC 2-2C	1.00	\$29,503		\$29,503	0	0	Low	Low	TBD	None	TBD	None	4					
FPC	FPC 3-1	5.59	\$159,612	\$1,882,800	\$2,042,412	0	0	Low	Low	TBD	None	TBD	None	1	2	Previous area 2.39 increased 2.34x	\$4,403,704	\$4,563,316	Overlaps Preferred SMF 2-2
	FPC 3-2	6.87	\$197,855	\$3,523,700	\$3,721,555	0	0	Low	Med	TBD	None	TBD	None	2	1	Previous area 5.49 increased by 1.25x	\$4,409,439	\$4,607,293	Preferred (Simlar Cost; FPC 3-1 overlaps Preferred SMF 2-2)
FPC	FPC 4-1	10.94	\$333,699	\$4,107,700	\$4,441,399	\$4,441,399 0 0	0	Low	Low	TBD	1R	TBD	None	1	1	Previous area 6.76 increased by 1.62	\$6,647,668	\$6,981,368	Preferred (Lower Cost, similar contamination risk and potential species impacts)
	FPC 4-2															Not viable based on updated SHGW	NA	NA	
FPC	FPC 5-1	1.64	\$45,039	\$1,727,100	\$1,772,139	0	0	Med	Low	TBD	None	TBD	None	1	1	Previous area 1.85 decreased by 0.89x	\$1,531,051	\$1,576,090	Preferred (Lower Cost, fewer relocations, but does have a higher contamination risk)
	FPC 5-2	2.32	\$52,712	\$4,550,400	\$4,603,112	0	0	Low	Low	TBD	1R + 1B	TBD	None	2	2	Previous area 1.66 increased by 1.40x	\$6,359,595	\$6,412,308	

Notes: ¹Includes Clearing and Grubbing, Excavation, Embankment, and Pond Liner

²R = Residential: B = Busines

³Updated ROW costs based on the revised FPC sites were performed for the preferred alternatives and are summarized on the Preferred Alternatives table.

Patel, Greene Associates, LLC FPID: 447157-1-32-01

	Floodplain Compensation Pond Preferred Alternatives (DRAFT)															
Basin	Pond Site	FPC Parcel Area (ac)	Est. Construction Cost (\$)	Est. Right of Way Cost (\$)	Est. Total Cost (\$)	Estimated Wetland Impacts (ac).	Estimated Wetland Mitigation Cost (\$) ¹	Contamination Risk	Listed Species & Habitat Potential Impacts	Probability of Cultural Resources Assessment Survey (CRAS) Impacts	Potential Relocations ²	Recorded Archeological/ Historic Sites	Utility Impacts	Total Parcel Acquisition	Pond Site Ranking	Preferred
FPC-1	FPC 1-1	3.21	\$62,744	\$1,104,800	\$1,167,544	0	0	Low	Med	TBD	None	TBD	None	1	1	Preferred (Alternate Site not feasible due to high SHGW; No other viable alternatives)
FPC-2	FPC 2-1	5.46	\$205,216	\$664,000	\$869,216	0	0	Low	Low	TBD	None	TBD	None	1	1	Preferred (Less contamination risk, fewer relocations)
FPC-3	FPC 3-2	6.87	\$197,855	\$4,293,200	\$4,491,055	0	0	Low	Med	TBD	None	TBD	None	2	1	Preferred (FPC 3-1 overlaps Preferred SMF 2-2)
FPC-4	FPC 4-1	10.94	\$333,699	\$6,553,200	\$6,886,899	0	0	Low	Low	TBD	1R	TBD	None	1	1	Preferred (Alternate Site not feasible due to high SHGW; No other viable alternatives)
FPC-5	FPC 5-1	1.64	\$45,039	\$1,014,500	\$1,059,539	0	0	Med	Low	TBD	None	TBD	None	1	1	Preferred (Lower Construction Cost, fewer relocations, but does have a higher contamination risk)

Notes: ¹Includes Clearing and Grubbing, Excavation, Embaknment, and Pond Liner

²R = Residential; B = Business

Patel, Greene Associates, LLC FPID: 447157-1-32-01

									Storn	nwater Managen	nent Facility Evaluation Mat	rix (DRAFT)						
Basin	SMF Site	SMF Parcel Area (ac.)	Treatment Type	Est. Comparative Construction Cost (\$) ¹	Est. Right of Way Cost (\$)	Est. Total Cost (\$)	Estimated Wetland Impacts (ac).	Estimated Wetland Mitigation Cost (\$)	Floodplain Impacts	Contamination Risk	Listed Species & Habitat Potential Impacts	Probability of Cultural Resources Assessment Survey (CRAS) Impacts	Potential Relocations ¹	Recorded Archeological/Historic Sites	Utility Impacts	Total Parcel Acquisition	Pond Site Ranking	Preferred (preliminary, pending Pond Siting Meeting)
1&7	SMF 1&7-1	2.58	Wet Detention	\$182,780	\$724,300	\$907,080	None	0	No	Low	Low	TBD	1R	TBD	None	1	1	Preferred (lower cost, less contamination risk, and lower potential species impact)
107	SMF 1&7-2	2.58	Wet Detention	\$178,688	\$1,339,600	\$1,518,288	None	0	Yes	Med	Medium	TBD	1B	TBD	None	1	2	
2	SMF 2-1	3.13	Wet Detention	\$1,392,576	\$3,717,600	\$5,110,176	None	0	No	Low	Low	TBD	1B	TBD	None	1	2	
	SMF 2-2	2.51	Wet Detention	\$1,177,355	\$1,970,500	\$3,147,855	None	0	Yes (minimal)	Low	Low	TBD	None	TBD	None	1	1	Preferred (lower costs and no relocations)
3	SMF 3-1	3.35	Wet Detention	\$1,322,378	\$3,777,800	\$5,100,178	None	0	Yes (minimal)	Low	Low	TBD	None	TBD	None	1	1	Preferred (lower cost, similar contamination risk and potential species impacts)
	SMF 3-2	3.27	Wet Detention	\$2,352,207	\$2,765,900	\$5,118,107	None	0	No	Low	Low	TBD	1B	TBD	None	1	2	
4	Existing FDOT Pond 7		Wet Detention	Outfall Structure Modification														Preferred (Existing Pond)
	SMF 5-1	1.92	Wet Detention	\$521,540	\$4,550,400	\$5,071,940	None	0	Yes (Minimal)	Med	Low	TBD	1B	TBD	None	1	3	
5	SMF 5-2	2.18	Wet Detention	\$493,019	\$1,445,000	\$1,938,019	None	0	Yes (Minimal)	Med	Low	TBD	None	TBD	None	1	1	Preferred (lower cost and no relocations)
	SMF 5-3	1.56	Wet Detention	\$473,585	\$1,973,300	\$2,446,885	None	0	No	Low	Low	TBD	1R	TBD	None	1	2	

Notes: ¹Includes Clearing and Grubbing, Excavation, Embaknment, and Pond Liner. For SMF 3-2, the additional comparative cost of running the collection storm drain down Newsome Avenue and the related roadway reconstruction is included. ²R = Residential; B = Business



Appendix F Correspondence and Meeting Minutes

Jen Rehrl

From: Gabler, Kevin < Kevin.Gabler@dot.state.fl.us>
Sent: Monday, December 12, 2022 7:32 AM

To: Jen Rehrl

Cc: Carol Conner; Smith, Jason; Gibson, Ron

Subject: RE: US 92 in Hillsborough Co - W of McIntosh Rd to E of McIntosh Rd - History of

Flooding Info Request

CAUTION: This email originated from outside the organization. Use caution with links and attachments.

Yes the SE corner floods on a regular basis, out into the road way, as there is no drainage there. The water can not make it to the catch basin in the grass east of the intersection in front of the gas station.

Respectfully,

Kevin Gabler
Roadway Maintenance Supervisor III - Tampa Operations
Florida Department of Transportation
2822 Leslie Road, Tampa Florida 33619
Desk Phone 813-612-3249
Cell Phone 813-323-1163
Kevin.Gabler@dot.state.fl.us

From: Jen Rehrl < Jen.Rehrl@patelgreene.com> Sent: Thursday, December 8, 2022 1:33 PM

To: Gabler, Kevin < Kevin.Gabler@dot.state.fl.us>; Keller, Paul < Paul.Keller@dot.state.fl.us>

Cc: Carol Conner < Carol. Conner@patelgreene.com>

Subject: US 92 in Hillsborough Co - W of McIntosh Rd to E of McIntosh Rd - History of Flooding Info Request

EXTERNAL SENDER: Use caution with links and attachments.

Good afternoon, Kevin and Paul,

I am working on a roadway project for US 92 and wanted to request any information you may have regarding history of flooding throughout US 92 from west of McIntosh Road to east of McIntosh Road in Hillsborough County.

Please see attached a project location map for your use.

Thank you in advance for your time.

Jennifer Rehrl

Engineering Intern II

Patel, Greene & Associates, LLC (PGA)

101 S. Garland Ave, Suite 201 Orlando, FL 32801

Office: (407) 720-7420, Ext. 408 | Cell: (863) 242-6029 | Email: Jennifer.Rehrl@patelgreene.com

Follow PGA on Social Media

Carol Conner

From: Gao, Jie <GaoJ@hillsboroughcounty.org> **Sent:** Monday, October 9, 2023 9:24 AM

To: Jen Rehrl; Webster, Larry

Cc: Dicus, Leland; Suess, Robert; Carol Conner

Subject: RE: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

CAUTION: This email originated from outside the organization. Use caution with links and attachments.

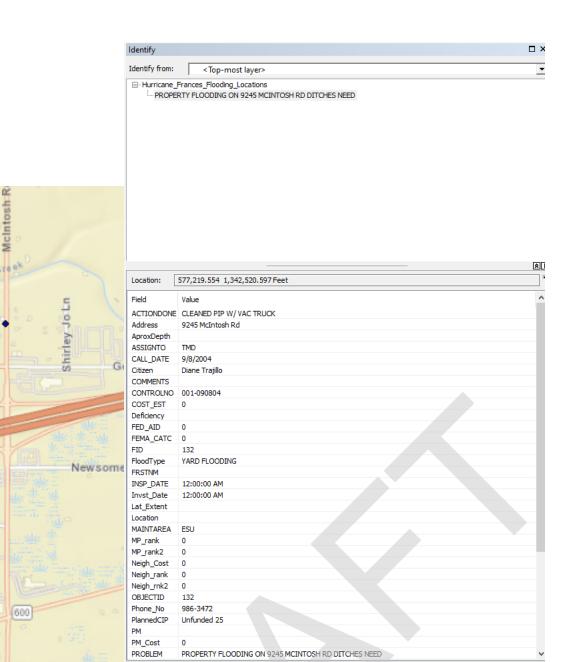
Good morning Jen,

Sorry for the late reply. We thought the requested information had been provided.

From our historical flooding location records, there is only one record that shows flooding which fell within your project area. It was recorded during Hurricane Frances in 2004. Please see the screenshots below.

Larry is off today. He will get back with you on any other flooding work orders within the area, if there are any.





Thanks,

east Tamp

Jie Gao, P.E., CFM, GISP

Section Manager, Stormwater Engineering Services

Identified 1 feature

Technical Services Division
Engineering and Operations Department

M: (813) 460-6539 F: (813) 272-5320

E: GaoJ@HCFLGov.net
W: HCFLGov.net

Hillsborough County

601 E. Kennedy Blvd., Tampa, FL 33602

Facebook | Twitter | YouTube | LinkedIn | HCFL Stay Safe

Please note: All correspondence to or from this office is subject to Florida's Public Records law.

From: Jen Rehrl <jen.rehrl@patelgreene.com> Sent: Monday, October 9, 2023 8:43 AM

To: Webster, Larry < WebsterL@HillsboroughCounty.ORG>

Cc: Gao, Jie <GaoJ@hillsboroughcounty.org>; Dicus, Leland <DicusL@hillsboroughcounty.org>; Suess, Robert

<SuessR@HillsboroughCounty.ORG>; Carol Conner <carol.conner@patelgreene.com>

Subject: RE: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

Importance: High

External email: Use caution when clicking on links, opening attachments or replying to this email.

Good morning,

I sent the emails below some time ago, but never received the information requested.

I am working on a roadway project for McIntosh Road and wanted to request any information you may have regarding history of flooding throughout McIntosh Road from south of US 92 to north of the I-4 interchange.

I've attached a project location map. Any information you may have will be greatly appreciated.

Thank you,

Jen Rehrl



Jen Rehrl, El | Engineering Intern II

101 S. Garland Avenue, Suite 201, Orlando, FL, 32801

Office: (407) 720-7420 | Cell: (863) 242-6029

Email: jen.rehrl@patelgreene.com

Follow PGA: Website | LinkedIn | Instagram | X | Facebook

Due to security concerns, we can no longer accept .zip attachments in emails.

From: Jen Rehrl

Sent: Friday, February 17, 2023 2:18 PM

To: Webster, Larry < WebsterL@HillsboroughCounty.ORG>

Cc: Gao, Jie < GaoJ@hillsboroughcounty.org>; Dicus, Leland < DicusL@hillsboroughcounty.org>; Suess, Robert

<SuessR@HillsboroughCounty.ORG>

Subject: RE: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

Good afternoon,

I'm following up on the request below. Any information you can provide will be much appreciated.

Thank you and have a good weekend.

Jennifer Rehrl

Engineering Intern II

Patel, Greene & Associates, LLC (PGA)

101 S. Garland Ave, Suite 201 Orlando, FL 32801

Office: (407) 720-7420, Ext. 408 | Cell: (863) 242-6029 | Email: Jennifer.Rehrl@patelgreene.com

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Website Facebook LinkedIn Twitter Instagram

Due to security concerns, we can no longer accept .zip attachments in emails.

From: Webster, Larry < WebsterL@HillsboroughCounty.ORG >

Sent: Thursday, December 1, 2022 3:26 PM **To:** Jen Rehrl < <u>Jen.Rehrl@patelgreene.com</u>>

Cc: Gao, Jie <GaoJ@hillsboroughcounty.org>; Dicus, Leland <DicusL@hillsboroughcounty.org>; Suess, Robert

<SuessR@HillsboroughCounty.ORG>

Subject: RE: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

CAUTION: This email originated from outside the organization. Use caution with links and attachments.

We'll review the area in question and get you a response. It will be a couple of weeks before we complete the review though.

Larry Webster

Stormwater Investigation Manager

Technical Services Division
Engineering and Operations Department

C: (813) 734-3838 F: (813) 272-5320

E: WebsterL@HillsboroughCounty.org

W: HillsboroughCounty.org

Hillsborough County

601 E. Kennedy Blvd., Tampa, FL 33602

Facebook | Twitter | YouTube | LinkedIn

From: Suess, Robert <SuessR@HillsboroughCounty.ORG>

Sent: Thursday, December 1, 2022 3:23 PM

To: Jen.Rehrl@patelgreene.com

Cc: Webster, Larry < <u>WebsterL@HillsboroughCounty.ORG</u>>; Gao, Jie < <u>GaoJ@hillsboroughcounty.org</u>>; Dicus, Leland

<DicusL@hillsboroughcounty.org>

Subject: FW: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

Thank you, Jennifer.

I am copying my colleagues in Stormwater Engineering to discuss/respond as I believe that they will be able to provide a complete "picture".

Robert Suess

Division Director, Transportation Maintenance

Engineering and Operations- Public Works Administration

P: (813) 307-1854 F: (813) 272-5320 E: <u>suessr@HCFLGov.net</u> W: www.HCFLGov.net

Hillsborough County

601 E. Kennedy Blvd., Tampa, FL 33602

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Please note: All correspondence to or from this office is subject to Florida's Public Records law.

From: Jen Rehrl < <u>Jen.Rehrl@patelgreene.com</u>>
Sent: Thursday, December 1, 2022 3:14 PM

To: Suess, Robert < <u>SuessR@HillsboroughCounty.ORG</u>> **Cc:** Carol Conner < <u>Carol.Conner@pateIgreene.com</u>>

Subject: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

External email: Use caution when clicking on links, opening attachments or replying to this email.

Good afternoon, Robert,

I am working on a roadway project for McIntosh Road and wanted to request any information you may have regarding history of flooding throughout McIntosh Road from south of US 92 to north of the I-4 interchange.

Please see attached a project location map for your use.

Thank you,

Jennifer Rehrl

Engineering Intern II

Patel, Greene & Associates, LLC (PGA)

101 S. Garland Ave, Suite 201 Orlando, FL 32801

Office: (407) 720-7420, Ext. 408 | Cell: (863) 242-6029 | Email: Jennifer.Rehrl@patelgreene.com

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Carol Conner

From: Webster, Larry <WebsterL@HillsboroughCounty.ORG>

Sent: Monday, October 9, 2023 5:25 PM

To: Jen Rehrl

Cc: Gao, Jie; Dicus, Leland; Suess, Robert; Carol Conner

Subject: FW: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

CAUTION: This email originated from outside the organization. Use caution with links and attachments.

Staff has completed our review of your request. Staff has no record of significant flooding issues in MaintStar along the portion of McIntosh Rd (US 92 to just north of I-4) requested. Staff also coordinated with our maintenance unit staff and other long term staff, they were unaware of any as well. My apologies for the delayed response as I thought this has been completed previously.

Larry Webster

Stormwater Investigation Manager

Technical Services Division
Engineering and Operations Department

C: (813) 734-3838 F: (813) 272-5320

E: WebsterL@HillsboroughCounty.org

W: HillsboroughCounty.org

Hillsborough County

601 E. Kennedy Blvd., Tampa, FL 33602

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From: Brown, Eric <BrownEr@hillsboroughcounty.org>

Sent: Monday, October 9, 2023 1:01 PM

To: Webster, Larry < WebsterL@HillsboroughCounty.ORG>; Gao, Jie < GaoJ@hillsboroughcounty.org>

Cc: Hinson, Corey <HinsonC@hillsboroughcounty.org>

Subject: RE: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

I found nothing in MAINTSTAR.

I did not find anything in the Stormwater Section's Files/Folders.

I spoke with Corey Hinson – He does not recall any flooding issues or complaints for the Project Area (from North of Dickey Rd. to South of US Hwy 92)

Eric Brown

Engineering Associate

Stormwater Engineering Services

Technical Services Division

Engineering and Operations Department

M: (813) 450-6457 F: (813) 272-5320

E: BrownEr@HCFLGov.net

W: HCFLGov.net

From: Gao, Jie < GaoJ@hillsboroughcounty.org> Sent: Monday, October 9, 2023 11:50 AM

To: Brown, Eric < BrownEr@hillsboroughcounty.org>

Subject: FW: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

Hi Eric,

I have checked our historical flood complaint GIS layers and sent out 2 emails to Jen. Below is the other email. I did not check any Work Orders in MaintStar.

Thanks,

Jie Gao, P.E., CFM, GISP

Section Manager, Stormwater Engineering Services

Technical Services Division
Engineering and Operations Department

_

M: (813) 460-6539 F: (813) 272-5320

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From: Gao, Jie

Sent: Monday, October 9, 2023 9:24 AM

To: Jen Rehrl < jen.rehrl@patelgreene.com>; Webster, Larry < WebsterL@HillsboroughCounty.ORG>

Cc: Dicus, Leland < DicusL@hillsboroughcounty.org>; Suess, Robert < SuessR@HillsboroughCounty.ORG>; Carol Conner

<carol.conner@patelgreene.com>

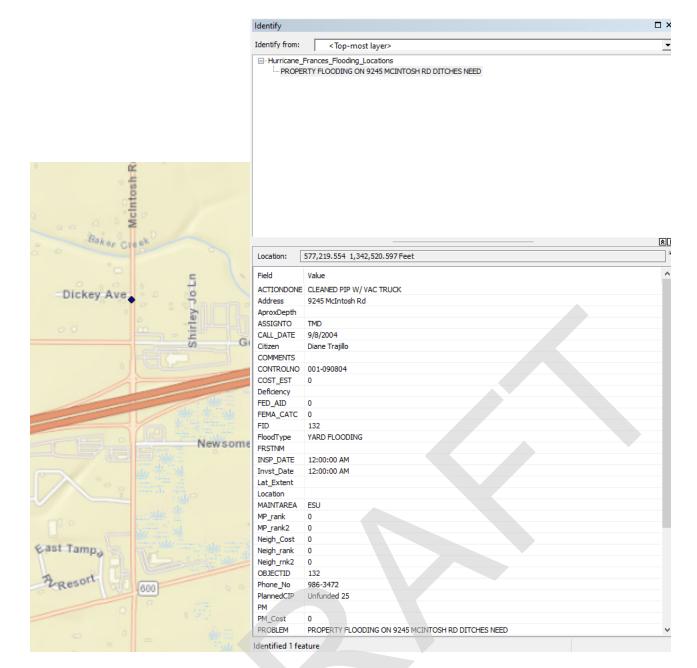
Subject: RE: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

Good morning Jen,

Sorry for the late reply. We thought the requested information had been provided.

From our historical flooding location records, there is only one record that shows flooding which fell within your project area. It was recorded during Hurricane Frances in 2004. Please see the screenshots below.

Larry is off today. He will get back with you on any other flooding work orders within the area, if there are any.



Thanks,

Jie Gao, P.E., CFM, GISP

Section Manager, Stormwater Engineering Services

Technical Services Division
Engineering and Operations Department

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From: Jen Rehrl < <u>jen.rehrl@patelgreene.com</u>>
Sent: Monday, October 9, 2023 8:43 AM

To: Webster, Larry < WebsterL@HillsboroughCounty.ORG >

Cc: Gao, Jie <GaoJ@hillsboroughcounty.org>; Dicus, Leland <DicusL@hillsboroughcounty.org>; Suess, Robert

<<u>SuessR@HillsboroughCounty.ORG</u>>; Carol Conner <<u>carol.conner@patelgreene.com</u>>

Subject: RE: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

Importance: High

External email: Use caution when clicking on links, opening attachments or replying to this email.

Good morning,

I sent the emails below some time ago, but never received the information requested.

I am working on a roadway project for McIntosh Road and wanted to request any information you may have regarding history of flooding throughout McIntosh Road from south of US 92 to north of the I-4 interchange.

I've attached a project location map. Any information you may have will be greatly appreciated.

Thank you,

Jen Rehrl



Jen Rehrl, El | Engineering Intern II

101 S. Garland Avenue, Suite 201, Orlando, FL, 32801

Office: (407) 720-7420 | Cell: (863) 242-6029

Email: jen.rehrl@patelgreene.com

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From: Jen Rehrl

Sent: Friday, February 17, 2023 2:18 PM

To: Webster, Larry < WebsterL@HillsboroughCounty.ORG>

Cc: Gao, Jie < GaoJ@hillsboroughcounty.org>; Dicus, Leland < DicusL@hillsboroughcounty.org>; Suess, Robert

<SuessR@HillsboroughCounty.ORG>

Subject: RE: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

Good afternoon,

I'm following up on the request below. Any information you can provide will be much appreciated.

Thank you and have a good weekend.

Jennifer Rehrl

Engineering Intern II

Patel, Greene & Associates, LLC (PGA)

101 S. Garland Ave, Suite 201 Orlando, FL 32801

Office: (407) 720-7420, Ext. 408 | Cell: (863) 242-6029 | Email: Jennifer.Rehrl@patelgreene.com

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From: Webster, Larry < WebsterL@HillsboroughCounty.ORG >

Sent: Thursday, December 1, 2022 3:26 PM **To:** Jen Rehrl < <u>Jen.Rehrl@patelgreene.com</u>>

Cc: Gao, Jie <GaoJ@hillsboroughcounty.org>; Dicus, Leland <DicusL@hillsboroughcounty.org>; Suess, Robert

<SuessR@HillsboroughCounty.ORG>

Subject: RE: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

CAUTION: This email originated from outside the organization. Use caution with links and attachments.

We'll review the area in question and get you a response. It will be a couple of weeks before we complete the review though.

Larry Webster

Stormwater Investigation Manager

Technical Services Division
Engineering and Operations Department

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E: WebsterL@HillsboroughCounty.org

W: HillsboroughCounty.org

Hillsborough County

601 E. Kennedy Blvd., Tampa, FL 33602

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From: Suess, Robert < SuessR@HillsboroughCounty.ORG>

Sent: Thursday, December 1, 2022 3:23 PM

To: Jen.Rehrl@patelgreene.com

Cc: Webster, Larry < <u>WebsterL@HillsboroughCounty.ORG</u>>; Gao, Jie < <u>GaoJ@hillsboroughcounty.org</u>>; Dicus, Leland

<<u>DicusL@hillsboroughcounty.org</u>>

Subject: FW: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

Thank you, Jennifer.

I am copying my colleagues in Stormwater Engineering to discuss/respond as I believe that they will be able to provide a complete "picture".

Robert Suess

Division Director, Transportation Maintenance

Engineering and Operations- Public Works Administration

-

P: (813) 307-1854 F: (813) 272-5320 E: <u>suessr@HCFLGov.net</u> W: www.HCFLGov.net

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From: Jen Rehrl < Jen: Thursday, December 1, 2022 3:14 PM

To: Suess, Robert < <u>SuessR@HillsboroughCounty.ORG</u>> **Cc:** Carol Conner < <u>Carol.Conner@patelgreene.com</u>>

Subject: McIntosh Rd from S of US 92 to N of I-4 History of Flooding Information Request

External email: Use caution when clicking on links, opening attachments or replying to this email.

Good afternoon, Robert,

I am working on a roadway project for McIntosh Road and wanted to request any information you may have regarding history of flooding throughout McIntosh Road from south of US 92 to north of the I-4 interchange.

Please see attached a project location map for your use.

Thank you,

Jennifer Rehrl

Engineering Intern II

Patel, Greene & Associates, LLC (PGA)

101 S. Garland Ave, Suite 201 Orlando, FL 32801

Office: (407) 720-7420, Ext. 408 | Cell: (863) 242-6029 | Email: Jennifer.Rehrl@patelgreene.com

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Meeting Minutes

Date: January 16, 2024
Time: 9:00 AM to 10:00 AM

Location/Call in Details: FDOT D7 & Teams Meeting
Prepared by: CDM Smith, PGA and CONSOR

Project Name: 447157-1 (McIntosh Rd) & 447159-1 (Branch Forbes Rd)

Attendees: FDOT - Craig Fox, Kirk Bogen, Bill McTeer, Marcel Goss, Charlie Xie

(GEC), Abdul Waris, Lisa Quinn, Allison Conner, Robin Rhinesmith

CDM Smith – Mohit Garg, Reja Rabbi, Michael Belvin

PGA – Carol Conner and Jen Rehrl CONSOR – Eric Nelson, Kadar Pryce

Meeting Objective: Pond Site Selection Meeting

Meeting Summary:

447157-1 (McIntosh Rd):

Overview:

- Project is within the Pemberton Creek/Baker Creek Watershed and is located within several different sub-basins discharging to separate outfalls.
- o Project is divided into eight drainage basins.
- Project was originally scoped to use FEMA FIRM maps for floodplain impacts. A meeting was held with Abdul in November 2023 during which it was decided to instead use the current HC-SWMM model based on recent permitting experiences.
- Most of the area is characterized by a high groundwater table, providing a significant constraint, particularly for floodplain compensation sites. Initial groundwater estimates are based on roadway borings and NRCS soils maps.
- Project does not currently drain to FDEP WBIDs impaired for nutrients, but the primary WBID is on the FDEP Comprehensive Study List for Nutrients, so additional requirements may ultimately apply.
- There are 27 separate floodplain impact areas, resulting in over 28 ac-ft of floodplain impacts requiring compensation.

SMF Alternatives:

- Basin 5, Mcintosh Road, from just south of Muck Pond Road to the northern project limit.
 - Three preliminary potential alternatives.
 - SMF 5-1 would impact a business
 - SMF 5-2 does not appear to impact any homes or businesses but would be a partial take.



- SMF 5-3 would impact a residence.
- Basin 4, McIntosh Road from the center of the I-4 interchange to south of Muck Pond Road.
 - This area currently drains to Existing FDOT Pond 7 (SWFWMD ERP 11896.000). Preliminary TB-Next information indicated there may be potential to expand the pond. Updated TB-Next information was obtained from HNTB recently and will be reviewed.
 - SMF 4-1 Partial take of undeveloped parcel.
 - SMF 4-2 potential expansion of existing FDOT Pond 7. Per Bill McTeer, if we
 can make this alternative on FDOT-owned land work, we will only show one
 alternative for this basin.
 - SMF 4-3 This would be a partial take of the Camping World Site. This will be removed as an alternative.
- Basin 3, McIntosh Road from the Center of the I-4 interchange to south of the entrance to the East Tampa RV Park.
 - SMF 3-1 Vacant property
 - SMF 3-2 Existing crop land would require piping from McIntosh Road down Newsome Road. Per Bill McTeer, a partial take of crop land entails payment of future income from the crops in perpetuity. Typically, residential property is less costly in a ROW take.
 - SMF 3-3 Was initially developed because it was thought that the LA ROW would eliminate the access. A pond at this location would require both the gas station site and the McDonalds site, connected by pipe and separated by the access road. Current plans involve shortening the LA ROW so as not to impact the gas station, so this alternative will be removed.
 - SMF 3-4 The 7-11 site was considered as an alternative, because at one-point, significant impact to the site was a possibility based on the road ROW. The limits of proposed ROW will be verified before deciding to include this alternative.
- Basin 2 includes McIntosh Road from the entrance to the East Tampa RV Park, south to US 92, as well as the west-bound lanes of US 92.
 - SMF 2-1 Addresses stormwater needs for all of Basin 2. This parcel includes some buildings associated with the Driscoll Strawberry operation.
 - SMF 2-2 Addresses stormwater needs for all of Basin 2. This is an undeveloped parcel.
 - The other SMF alternatives further subdivide Basin 2, separating the McIntosh Road portion from the US-92 portion. Combining basins, using fewer ponds is preferred so these will be eliminated and potentially a third option for the entire basin will be added.
- o Basin 1 (McIntosh Road south of US 92) and Basin 7 (east-bound US -92)
 - SMF 1&7-1 Addresses stormwater for the combined basins. Per Bill McTeer, it
 would be better to configure this pond perpendicular to the road to include less
 costly ROW frontage.
 - SMF 1&7-3 Addresses stormwater for the combined basins. This is an existing gas station. It was confirmed that the US 92 proposed ROW will require relocation of this business, so this is a valid potential pond site.



- SMF 1-2 and 7-2 separate the McIntosh Rd and US 92 basins. This option will be eliminated since the combined basin is preferred. A third combined site may be considered.
- The SMF site in this basin from the US-92 PD&E is not a viable site based on now using the HC-SWMM model definition of floodplain rather than FEMW. Also, SMF 7-2 would require an easement to access would need to be identified for ROW cost.
- Basin 8, US 92, East of Gallagher Road
 - SMF 8-1A&B Involves 2 residential takes.
 - SMF 8-2 involves a residential take.
 - SMF 8-3 involves a residential take.
- Basin 6 US 92, West of Gallagher
 - SMF 6-1 Vacant, roughly the location of pond site considered in the US 92 PD&E study.
 - SMF 6-2 potentially a small business or residential relocation.
 - SMF 6-3A, B will be removed combined basin is preferred.
 - Any pond alternative for Basin 6 should be designed to address the entire future basin of US 92.
 - Determine if ROW take will be required along west-bound US 92 to convey drainage from Basin 6 to the pond. Pipe may be able to discharge into the existing ditch – will be explored in detail.
 - The ditch along the south side of US 92 includes an outfall control structure and is part of the stormwater system for existing US 92, permitted under 31172.000. That volume will be addressed in the proposed pond.
 - Access to FPC 5-1 and 5-2 needs to be addressed. Alternatives will be explored.
 - Impact areas FIA-13 and FIA-18 will be considered for combination with other impact areas/FPS to eliminate the small associated FPCs (FPC 8-1, 8-2, 10-1, 10-2).
 - FIA-10 appears to be just an impact to existing ditch will investigate alternate approach to mitigate the impact.

FPC Alternatives:

- 28 Separate Impact Areas
- Currently combined into 14 groups for compensation; further grouping, especially for the smaller impacts in roadside ditches will be evaluated for combination with other FPCs.
- FPC 1-1, 1-2 were questioned. There is not an obvious alternative but will be further explored.
- An alternative to FPC 2-1 and 2-2 will be explored that involves excavation within the floodplain, outside wetland, at the suggestion of Bill McTeer. It was confirmed that the gas station at the southwest corner will be a business relocation based on the US 92 ROW requirements, so encompassing that area will be explored.
- o FPC 3-1 will need an access easement. FPC 3-2 will be eliminated based on no access.
- o Will explore combination of FPC-12-1,12-2,13-1,13-2,14-1,14-2.



 FPC 11-2 includes the Circle K/Shell station – septic tank/drain field is proposed to be impacted by the road ROW.

General comments:

- Residential impacts are preferred over impacts to agricultural/crop lands, since crop lands are typically compensated with a payment representing the income from the crop land in perpetuity.
- Locate ponds perpendicular to rather than parallel to roads whenever possible to avoid taking costlier frontage area (i.e. SMF 1&7-1 and others)
- Look at the business and residential relocations from the US 92 PD&E and use those as pond sites where feasible.
- All ponds need to be directly connected to the road ROW or the required access easements need to be addressed and included for the ROW costs.
- Contamination Risk Assessment:
 - Marcel Goss reported that all of the gas stations within the project limits are listed as medium risk for contamination with no recorded discharges.
- Action Items and Deadlines:
 - o Bill McTeer requested maps by mid-February for R/W estimates before April.

447159-1 (Branch Forbes Rd):

- Project Overview:
 - o Eric Nelson provided an overview of the project, detailing roadway improvements:
 - Interchange improvements at I-4
 - Widening of Branch Forbes from 2 to 4 lanes (north of I-4 to south of US 92)
 - Widening of US 92 from 2 to 4 lanes (west of Rogers Rd. to east of Spartsman Branch)
 - Involvement of 6 overall basins
 - Floodplain and floodway considerations in various basins
 - Review of FEMA floodplains and HCSWMM
 - Modification of bridges on US92 and Branch Forbes over Spartsman Branch
- Pond Site Selections:
 - o Basin 1:
 - Located along US92 west of Rogers Rd.
 - 3 pond site selections discussed.
 - 1 north of US92 and 2 south of US92.
 - Alternative west of the southern wetland.
 - Bill McTeer stated that the northern SMF alternative is not the most economical, as it is situated on farmland. The other two residential sites are preferable since they are also required for roadway right-of-way (r/w) expansion.
 - o Basin 2:



- Located along US92 from Rogers Rd to Spartman Branch.
- 3 pond site selections discussed.
- One on the site of an existing church.
- Another at an existing gas station (SE quad of US92/Forbes intersection).
- Third located north of an existing gas station (NE quad of US92/Forbes intersection).
- Similar emphasis on economical and residential sites for roadway r/w expansion.

o Basin 3:

- Located along Forbes Rd from US92 to the I4 interchange.
- 3 pond site selections discussed.
- 2 west of Forbes Rd., requiring roadway r/w acquisition.
- 3rd east of Forbes with significant roadway r/w acquisition.
- Potential for an FPC Site in the third selection.

o Basin 4:

- I4 interchange.
- Utilization of infield areas for SMF's; no alternative review needed.

o Basin 5:

- Small segment east of the interchange along 14.
- Area flowing to an FDOT-owned/permitted pond.
- Verification of pond size for I4 ultimate design.
- Analysis of converting the pond from Wet Detention to Wet Conservation Pond.
- Option to purchase a small portion of property west of the pond for expansion.

o Basin 6:

- Located along Forbes Rd. north of the 14 interchange.
- 4 alternatives provided.
- 3 east of Forbes and 1 west, all on vacant properties.
- Bridge and Culvert Modifications:
- Highlighted modifications on US92 and Branch Forbes bridges and culverts over Spartsman Branch.

Contamination Risk Assessment:

- Marcel Goss reported that all of the gas stations within the project limits were listed as medium risk for contamination with no recorded discharges, except for the two gas stations north of I-4, which did have recorded discharges. These stations are adjacent to two SMF 6 alternatives and will be noted in the PSR matrix.
- Action Items and Deadlines:
 - o Bill McTeer requested maps by mid-February for R/W estimates before April.

Action Items:

Assigned to	Action Item	Due Date
CDM Smith / CONSOR	Submit Pond Site Alternatives to FDOT Bill McTeer	February 16, 2024
FDOT	R/W Estimates	March 29, 2024





MEETING MINUTES

SWFWMD Pre-Application Meeting and Environmental Look Around (ELA)

DATE/TIME: April 18, 2024; 10:00am

PROJECT: FPID 447157-1-32-01

McIntosh Road PD&E Study

LOCATION: Teams

ATTENDEES:

SWFWMD: Bob Dasta, Kim Dymond

FDOT: Craig Fox (FDOT Project Manager)
PGA: Carol Conner, Jen Rehrl, Kevin Garcia

CDM Smith (Prime) Mohit Garg (Project Manager), Brendan Brown, Mark Mohr

The following notes reflect PGA's understanding of the discussions and decisions made at this meeting. If you have any questions, additions, or comments regarding elements contained these minutes, please contact PGA. The minutes will be considered accurate unless written notice is received within five working days of the date issued.

After introductions, an overall description of the project was provided. McIntosh Road is a Hillsborough County Road and serves as a key access to I-4. This PD&E Study addressed the proposed widening of McIntosh Road from south of US 92 to north of I-4. It also includes some minor I-4 ramp improvements and intersection improvements at US 92. This meeting is intended to serve as the required Environmental Look Around (ELA) Meeting for the Pond Siting Report as well as an initial pre-application meeting with SWFWMD to confirm design requirements.

The primary purpose of the ELA meeting is to determine if there are any regional/basin-wide stormwater opportunities for partnering. SWFWMD staff confirmed that they are not aware of any regional pond opportunities in the basin area.

The following exhibits (attached) were reviewed:

- a. Location Map
- b. USGS Map
- c. Typical Sections McIntosh is a 2-lane rural road proposed to be widened to a four-lane urban section with shared use paths on each side.
- d. Pemberton Creek CH-SWMM Model The project is within the Pemberton Creek/Baker Canal HC-SWMM Model. We have obtained and reviewed the latest version of the model from Hillsborough County.
- e. Floodplain (FEMA/HC-SWMM) We compared the FEMA floodplain elevations and extents to those from the HC-SWMM Model. In general, some are higher on the FEMA maps and some are higher in the model. The extents are overall less in the model, probably due to availability of improved LiDAR since the FEMA study.
- f. LiDAR Elevations in the basin range from a high of 80 to a low of 42, falling generally from east to west.
- g. WBIDs WBID Seffner Canal is on the Comprehensive Study List for DO and Nutrients, but not on the FDEP verified impaired list. Bob Dasat verified that based on current interpretations, net improvement calculations are not required for basins only on the Study List.

MEETING MINUTES

- h. NRCS Soils Most soils along the corridor are A/D or B/D
- i. High Water Table According to NRCS, the seasonal high groundwater table in the corridor ranges from at the surface to 2.5 feet below existing ground.
- j. Preliminary Alternative Stormwater Ponds and Floodplain Compensation preliminary stormwater pond and floodplain compensation areas have been identified but are still under review.

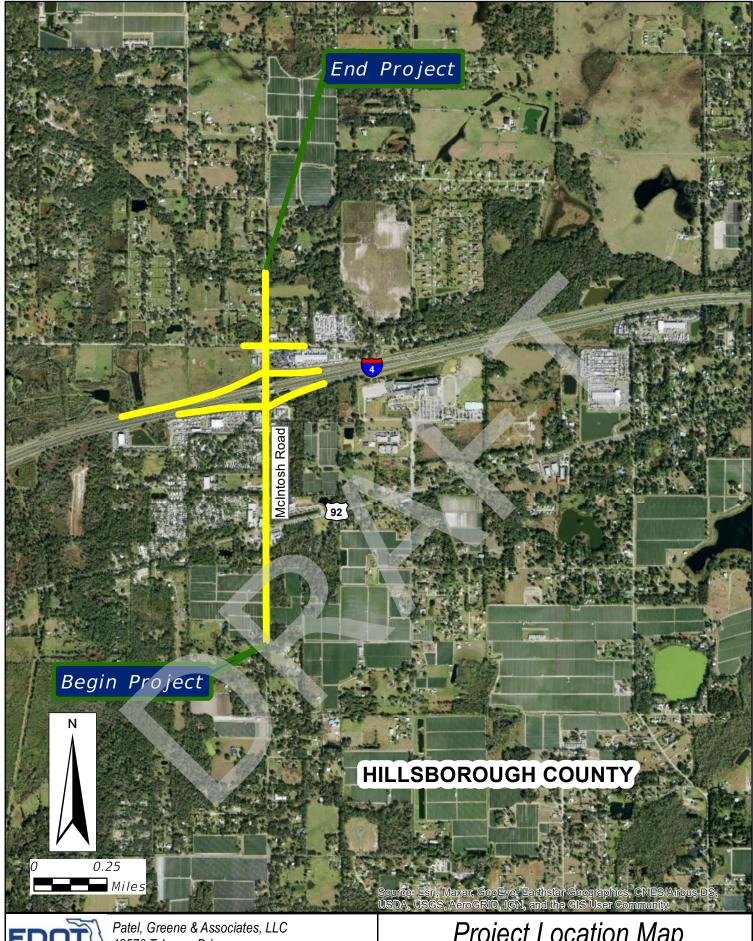
Drainage Criteria were reviewed for the project:

- 1. Water Quality Treatment
 - a. Wet Detention (1 Inch)
 - b. For PD&E Assume treatment of all impervious area (State Transportation Project)
 - c. FDEP Stormwater Quality Rule The ratification bill for the new stormwater rule was unanimously approved by both houses of the Florida Legislature. The governor has not yet signed it, so it has not gone into effect. It is anticipated that this project will be exempt from the new requirements based on one or both of the following exemptions written in the rule:
 - i. PD&E Studies Completed within 2 years of the Effective Date
 - ii. ERP Construction Permits obtained within 5 years of the Effective Date
- 2. Water Quantity/Attenuation
 - a. Pre/Post 25/24
- 3. Floodplain Compensation
 - a. Cup for Cup Used for PD&E
 - b. Recommend modeling for design phase

Potential wetland impacts and mitigation were discussed for the site. Pond sites are still under review, but at this time, it is anticipated that impacts will be limited to manmade ditches and mitigation will not be required. Should mitigation be required, there are mitigation banks in the area.

SWFWMD mentioned that there are several contamination sites in the area that should be reviewed.





12570 Telecom Drive Temple Terrace, FL 33637 Carol D. Conner, PE # 36060 Project Location Map

McIntosh Road

FPID: 447157-1-52-01 Date: 2/29/2024

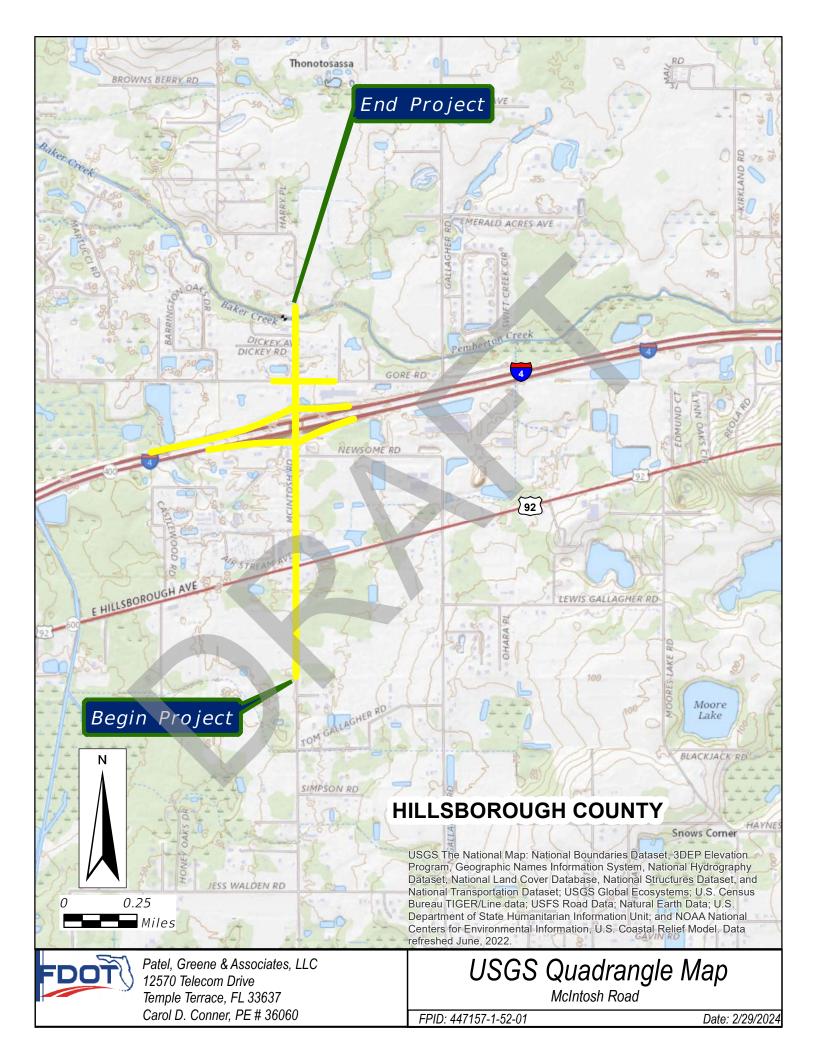




Figure 1-2: McIntosh Road Existing Typical Section

1.4. PREFERRED ALTERNATIVE

The preferred improvements along McIntosh Road consist of widening the existing road to a 4-lane urban facility consisting of two 11-foot travel lanes in each direction, 3-foot median shoulders, type E curb along the outside edge of travel, and a 22-foot median within a 140-foot wide ROW. There is a 10-foot shared used path on each side of the roadway. The proposed roadway will have a design speed of 35 mph. Refer to **Figure 1-3** for the McIntosh Road proposed typical section.

Approaching US 92 from the south, the Northbound (NB) section of McIntosh Road includes the following:

- Eleven foot left and right turn lanes
- A 4.5-foot paved buffer between the left turn and thru lanes
- A traffic separator in the median

The preferred improvements for Eastbound (EB) and Westbound (WB) on-ramps from McIntosh Road to I-4 consist of the following:

- One-way, two-lane, flush-shoulder ramps within a variable width (61-foot minimum) limited access ROW
- Twelve foot wide lanes
- The outside shoulder is 12-foot wide (10-foot paved)
- The inside shoulder is 8-foot wide (4-foot paved)



The preferred off-ramp improvements approaching McIntosh Road from I-4 EB and WB consist of the following:

- One-way, three-lane ramps within a limited access ROW (51-foot minimum)
- Twelve foot wide lanes
- The outside shoulder is 12-foot wide (10-foot paved)
- The inside shoulder is 8-foot wide (4-foot paved)

Refer to **Appendix B** for Proposed Typical Sections.

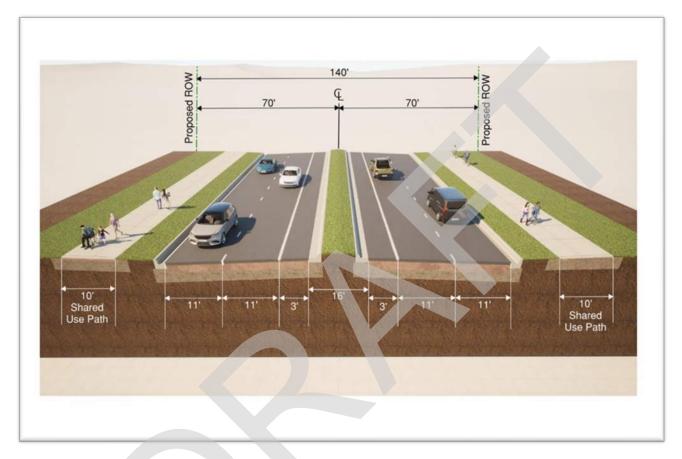
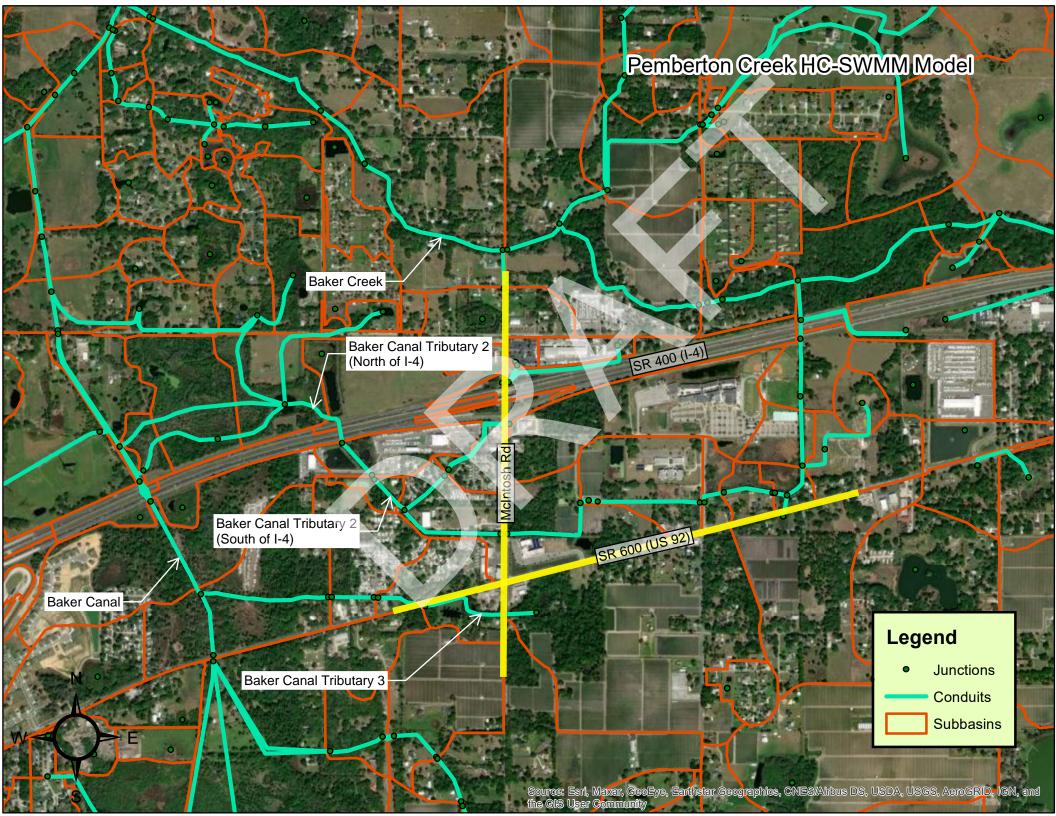
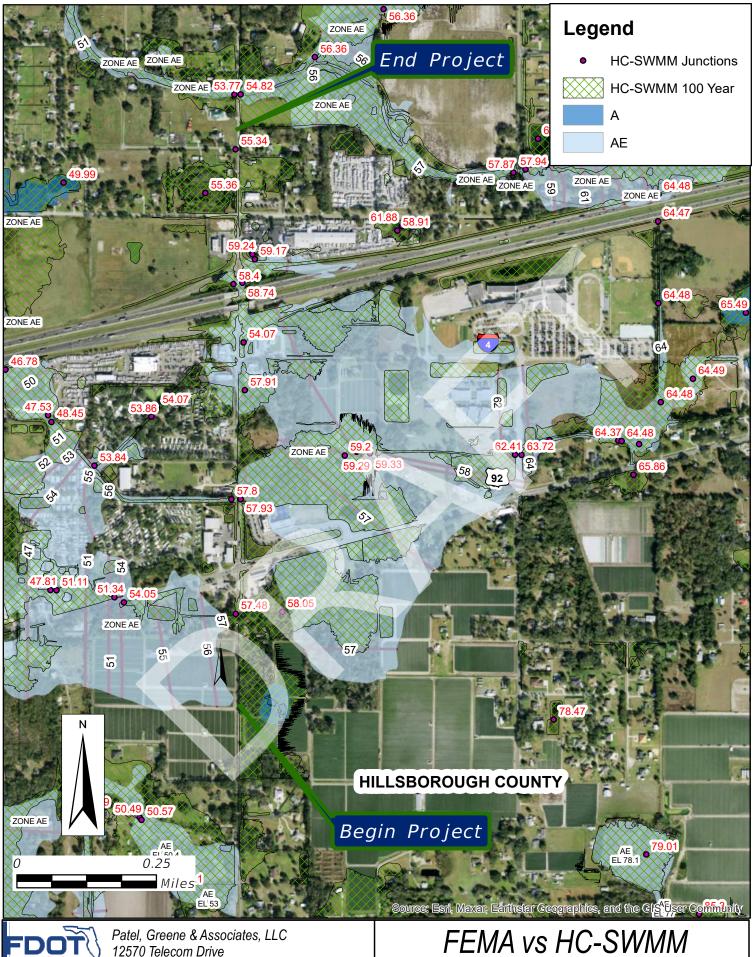


Figure 1-3: McIntosh Road Proposed Typical Section



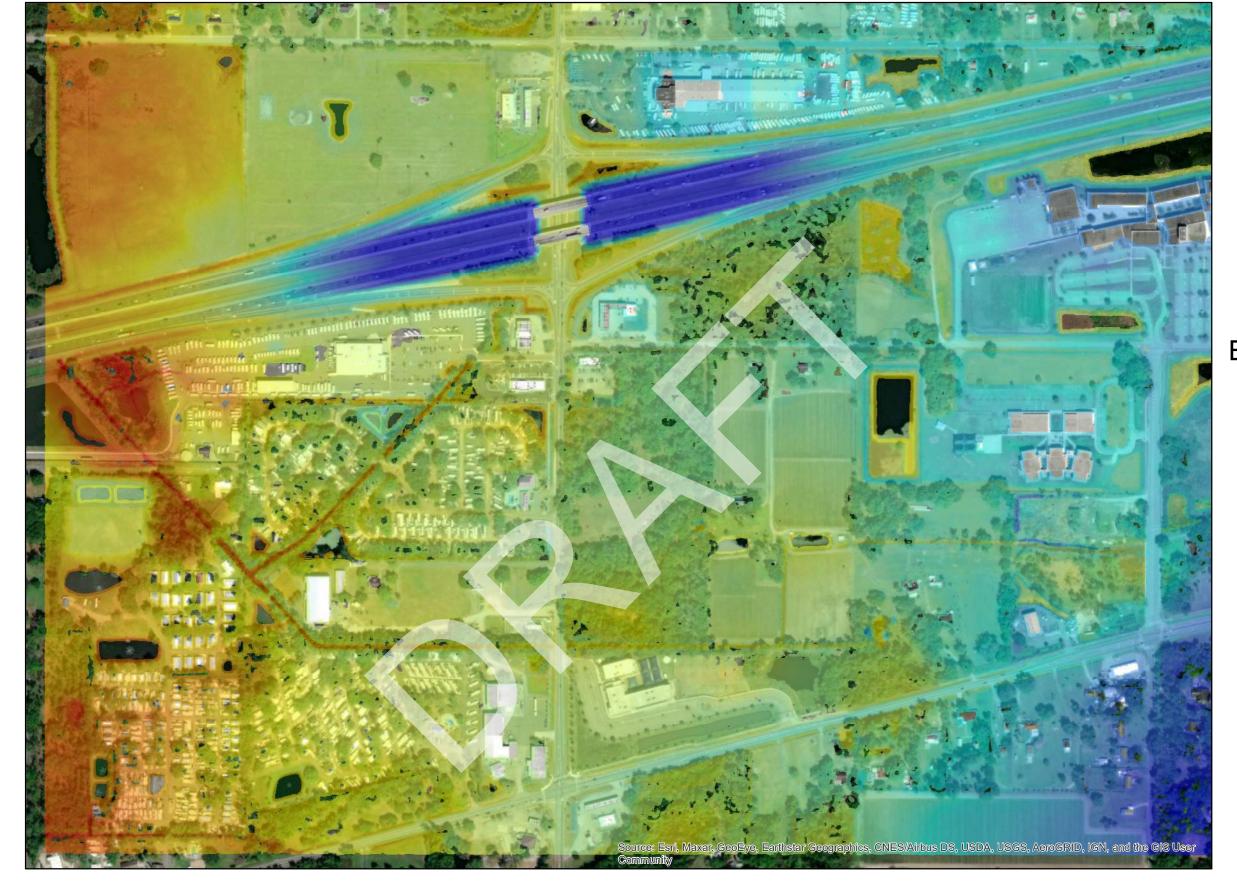




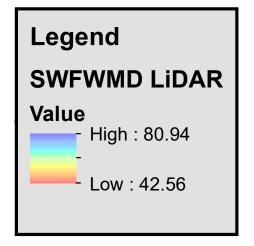
12570 Telecom Drive Temple Terrace, FL 33637 Carol D. Conner, PE # 36060

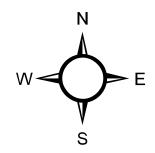
McIntosh Road

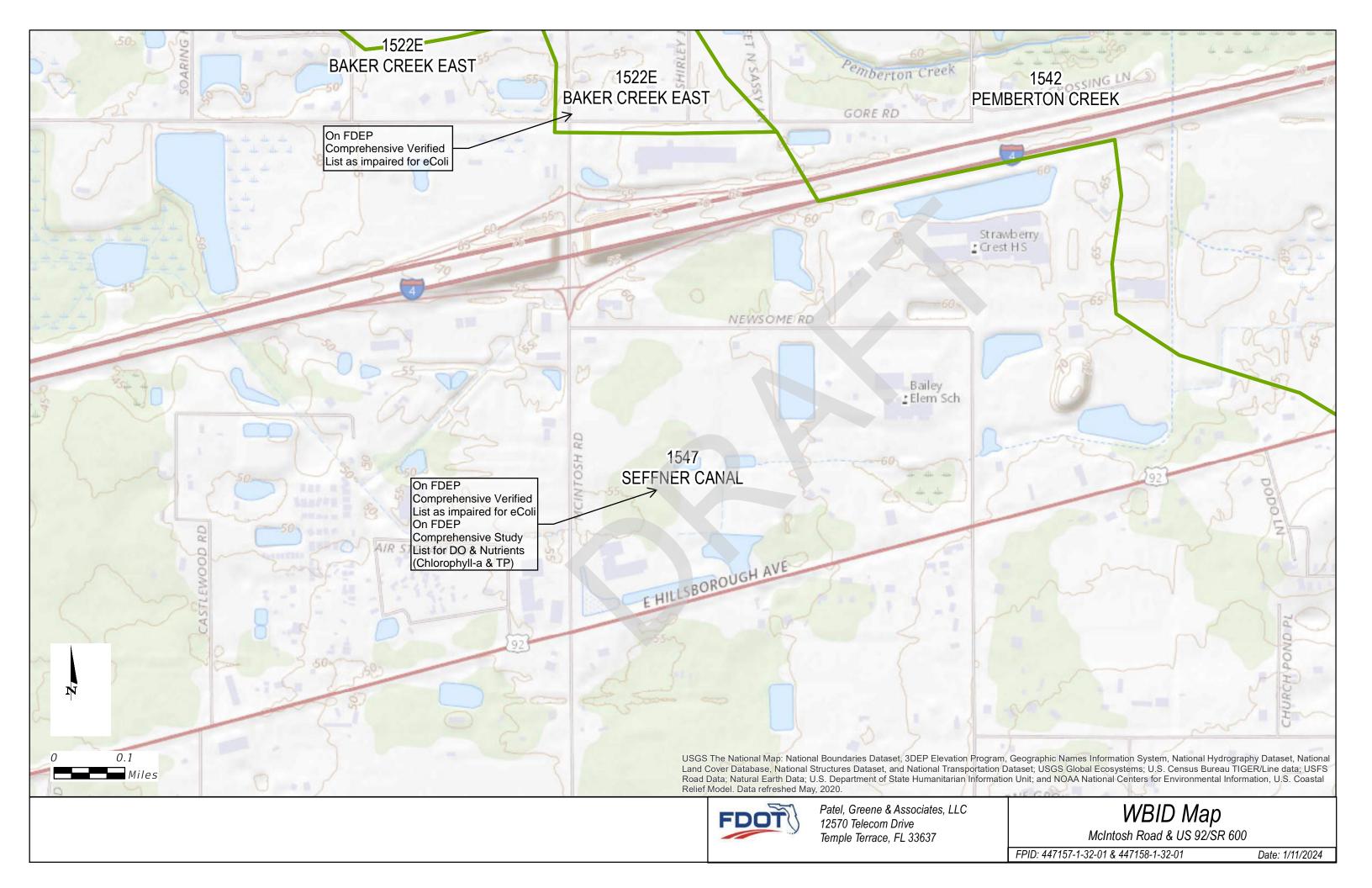
FPID: 447157-1-52-01 Date: 2/28/2024

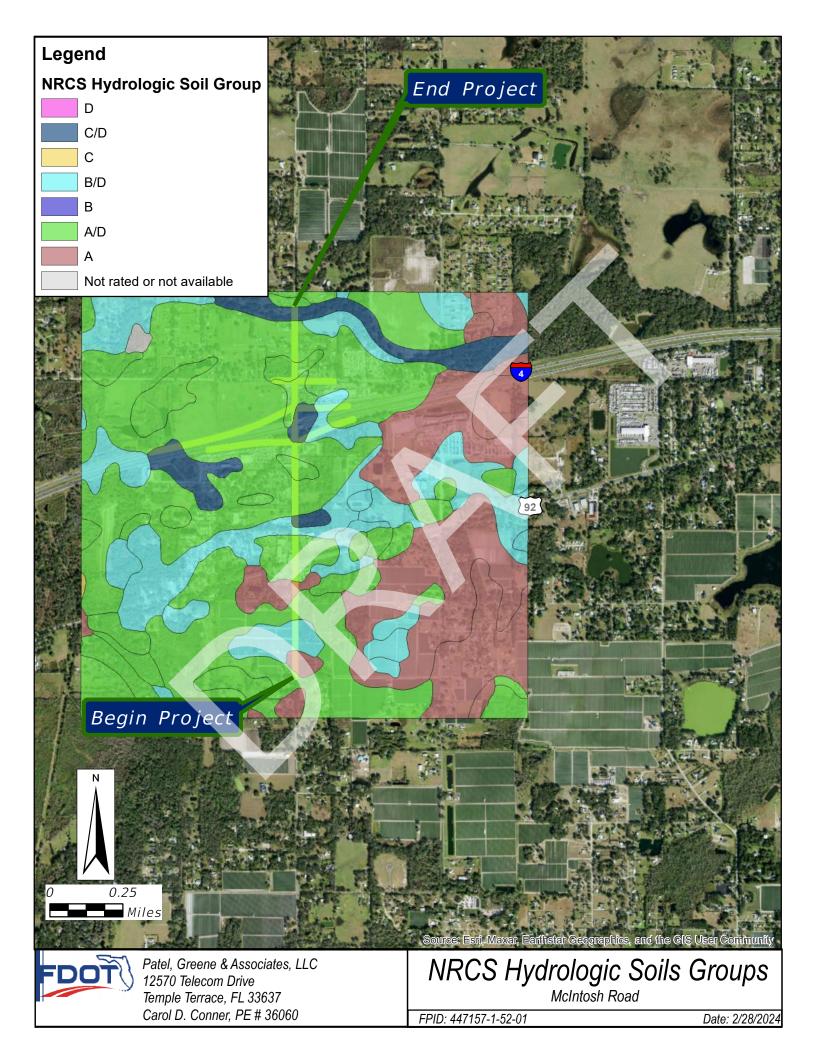


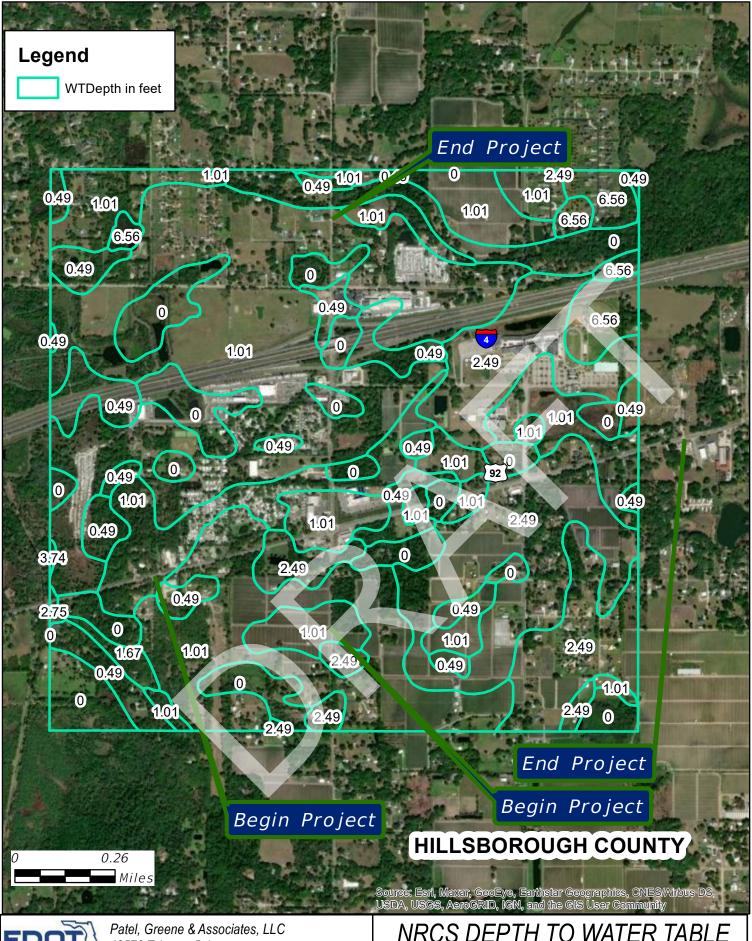
Elevations NAVD 88 (ft)











12570 Telecom Drive Temple Terrace, FL 33637 Carol D. Conner, PE # 36060

NRCS DEPTH TO WATER TABLE

McIntosh Road and US 92 (SR 600)

FPID: 447158-1-52-01 Date: 12/19/2023

Soil Name	NRCS Map Unit	Hydrologic Soil Group	Drainage Class, Dominant Condition	Approximate Depth to SHWT (ft)
Myakka fine sand, 0 to 2 percent slopes	29	A/D	Poorly drained	1
Ona fine sand, 0 to 2 percent slopes	33	B/D	Poorly drained	1
Paisley fine sand, Depressional	37	C/D	Very poorly drained	0
Seffner fine sand, 0 to 2 percent slopes	47	Α	Somewhat poorly drained	2.5

5.3. EXISTING DRAINAGE PERMITS

The following SWFWMD Historic Permits were used to collect drainage information for the purpose of this PD&E Study. **Table 5-3** provides a summary for each existing permit.

Table 5-3: Summary of Existing Drainage Permits

Permit Number	Permit Name	Date Issued	Permit Description
4820.001	RaceTrac Petroleum McIntosh Road	9/28/1992	Permit for RaceTrac gas station located on the southwest quadrant of the McIntosh Road and I-4 interchage
11896.000	I-4 Segment #2	1/24/1995	Permit for I-4 widening from I-75 to east of McIntosh Road
11896.0059	I-4 EB from Weigh Station to McIntosh Rd	9/12/2019	Permit for I-4 widening from Branch Forbes Road to SR 39
13876.000-002	Burger King McIntosh Road	7/12/1996- 7/19/1999	Permit for Burger King restaurant located south of the McIntosh Road and I-4 interchange
14028.000-004	US 92/McIntosh Intersection	8/27/1996- 12/10/2002	US 92 widening from Kingsway Road to McIntosh Road
17422.000005	Tampa RV One Superstore	2/5/1998- 7/20/2022	Permit for Tampa RV One Superstore to purchase wetland mitigation credits
18352.000	7-11 I-4 & McIntosh	9/1/1998	Permit for 7-11 gas station located on the southeast quadrant of the McIntosh Road and I-4 Interchange
19253.000	BP Station US 92 & McIntosh Rd	8/23/1999	Permit for BP gas station located on the southeast corner of McIntosh Road and US 92 intersection
27572.000005	Camping World	1/10/2005- 12/30/2015	Permit for modification to Camping World site located in the northeast quadrant of the McIntosh Road and US 92 interchange
31172.000	US 92 From Eureka Springs to Thonotosassa	11/30/1996	Permit for widening US 92 from Eureka Springs Road to SR 566 (Thonotosassa Road)
33399.000007	Strawberry Crest High School	3/20/2008- 10/27/2020	Permit for the construction of Strawberry Crest High School located just east of the



Permit Number	Permit Name	Date Issued	Permit Description
			McIntosh Road and I-4 interchange
34070.000002	Driscoll's Agricultural Storage	7/30/2008- 7/8/2010	Permit for storage buildings for Driscoll's Agricultural
41594.000001	Independence Academy	4/18/2014- 9/17/2014	Permit for the construction of Independence Academy located on the northeast corner of the McIntosh Road and US 92 intersection
43544.000-002	RV ONE	12/10/2018- 6/28/2019	Permit for a petition for formal determination of wetlands and surface waters within the vicinity of RV One Luxury RV Park
43710.000002	Radiant Circle K Shell	9/14/2018- 4/30/2021	Permit for construction of gas station located in the northwest quadrant of the McIntosh Road and I-4 Interchange
45376.000	Formal JD East of McIntosh	9/13/2021	Permit for formal determination of wetlands and surface waters for parcel on the east side of McIntosh Road between US 92 and Newsome Road
Exemption 786707	McIntosh over Pemberton Creek	6/27/2019	Permit exemption for McIntosh Road bridge over Pemberton Creek
Exemption 804331	Gallagher US 92 Intersection	6/27/2019	Permit exemption for minor improvements for US 92 at Gallagher Road
Permit Number	Permit Name	Date Issued	Permit Description

In addition to the above permits, construction plans obtained from Hillsborough County for Hungry Howie's on McIntosh Road were also reviewed.

5.4. EXISTING BASINS

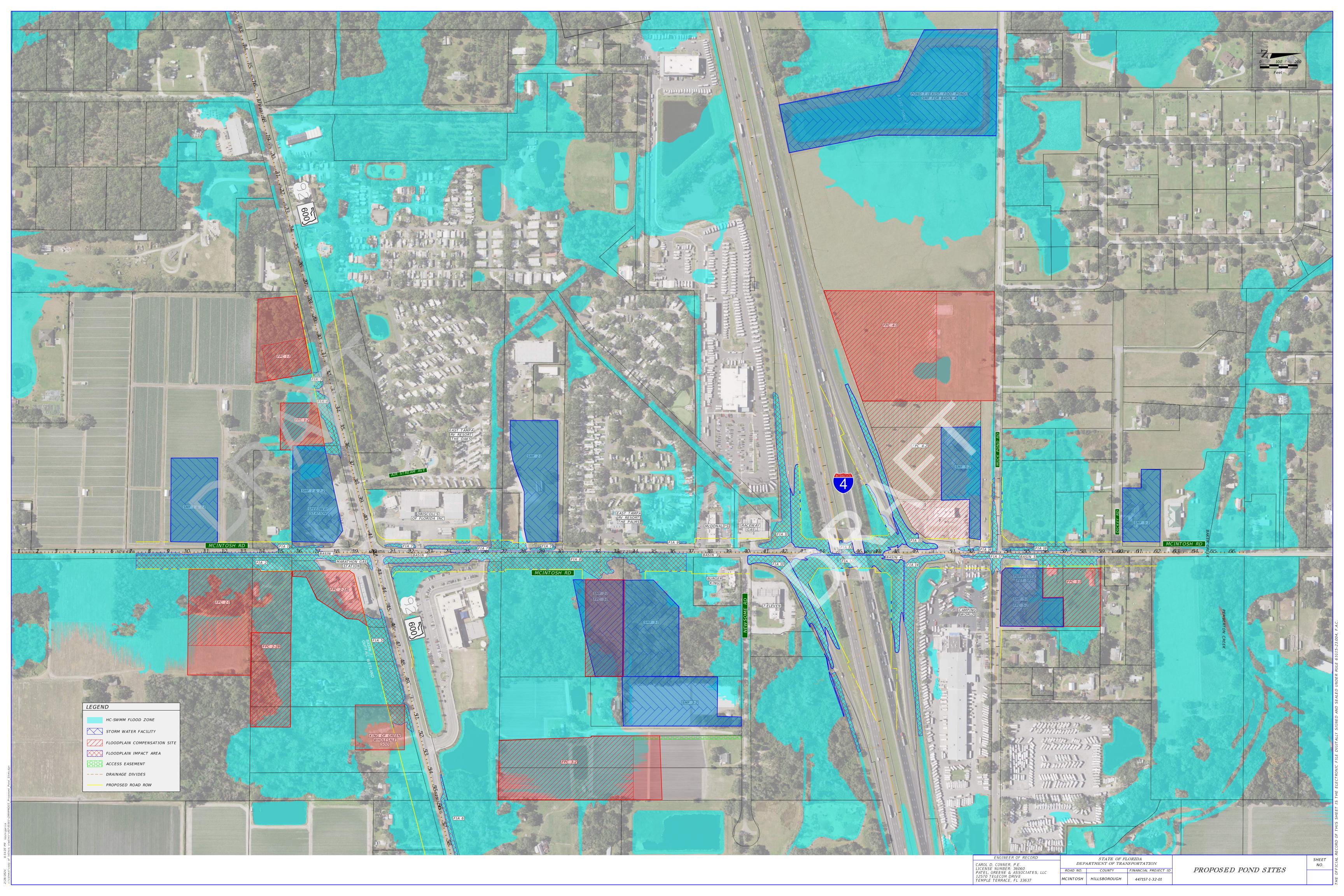
Stormwater runoff sheet flows from the roadway into roadside ditches, which discharges into existing culverts and cross drains throughout the corridor. The culverts and cross drains from the beginning of the project on McIntosh Road south of US 92 discharge to Baker Canal Tributary 3. The culverts and cross drains on McIntosh Road from north of US 92 to north of I-4 discharge to the Baker Canal Tributary 2. Both tributaries discharge to Baker Creek/Pemberton Creek, which discharges north to Lake Thonotosassa, an open basin. The project lies within two WBIDs: WBID 1522E for Baker Creek East and WBID 1547 for Seffner Canal, which is listed as impaired for E. Coli. Based on a review of the Southwest Florida Water Management District (SWFWMD) website and a Public Records request, there are no formal stormwater treatment facilities for McIntosh Road.

Six (6) subbasins have been identified within the limits of the project area. Two of these subbasins, Basin 2 and Basin 7, include portions of US 92. Basin divides have been developed from existing permit information and supplemented with LiDAR data, survey, and field review. Cross drain information was obtained from the project survey, existing plans and Straight Line Diagrams (SLD). Basin divides are detailed on the basin maps included in **Appendix A**.

5.4.1. BASIN 1

Basin 1 extends from the beginning of the project Sta 0+19 to the intersection of McIntosh Road and US 92 at Station 12+43. Runoff sheet flows from the road into roadside ditches where it is conveyed via side drains to the south outfall (Sta 8+45), which flows from east to west and discharges into Baker Canal Tributary 3. In the existing condition, Basin 1 is 3.87 acres.





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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT RESOURCE REGULATION DIVISION PRE-APPLICATION MEETING NOTES

FILE NUMBER:

PA 411365

4/18/24		
10 am		
BAR PA 411365 - McIntosh Road PD&E Study/Pond Siting Report		
Bob Dasta		
Kim Dymond		
Carol Conner, Mohit Garg, Jen Rehrl, Kevin Garcia, Mark Mohr, Craig Fox, Joel Johnson, Bendan Brown		
Hillsborough	Sec/Twp/Rge:	19,30/28/21
stal Land Acreage: Acres		
	BAR PA 411365 - McIntos Bob Dasta Kim Dymond Carol Conner, Mohit Garg, Johnson, Bendan Brown	10 am BAR PA 411365 - McIntosh Road PD&E Study/P Bob Dasta Kim Dymond Carol Conner, Mohit Garg, Jen Rehrl, Kevin Gard Johnson, Bendan Brown Hillsborough Sec/Twp/Rge:

Prior On-Site/Off-Site Permit Activity:

- ETDM 14469
- Pre Apps 409887, 408197

Project Overview:

- Comments provided The project consists of reconstructing McIntosh Road from a 2-lane undivided rural roadway to a 4-lane divided urban roadway with shared use paths on each side
- FDEP Petroleum Contamination Sites 9102709 (RaceTrac #980), 8627485 (7-Eleven Food Store # 32702), 8944197 (Arco-Academy #020), and 8624858 (BP-McIntosh #126)
- WBID 1547, Seffner Canal
- WBID 1522E, Baker Creek East
- Includes US 92 ramp and intersection improvements too
- Within the Pemberton Creek/Baker Canal regional watershed management plan model- HC-SWMM model.
- Numerous existing ERPs in the project area
- No regional treatment facilities in the area

Environmental Discussion: (Wetlands On-Site, Wetlands on Adjacent Properties, Delineation, T&E species, Easements, Drawdown Issues, Setbacks, Justification, Elimination/Reduction, Permanent/Temporary Impacts, Secondary and Cumulative Impacts, Mitigation Options, SHWL, Upland Habitats, Site Visit, etc.)

- Impacts include roadside surface water ditches and approx. 0.50 acres of wetlands.
- Provide the limits of jurisdictional wetlands and surface waters. Roadside ditches or other water conveyances, including permitted and constructed water conveyance features, can be claimed as surface waters per Chapter 62-340 F.A.C. if they do not meet the definition of a swale as stated under Rule 403.803 (14) F.S.
- Provide appropriate mitigation using UMAM for impacts, if applicable.
- The site is located in the Hillsborough ERP Basin. Mitigation Banks that serve this area include the Hillsborough River and North Tampa mitigation banks. For an interactive map of permitted mitigation banks and their service areas, use this <u>LINK</u>. Be advised that use of a bank with a modified service area (i.e. a service area that is larger than the basin the bank is located in), may require the submittal of a cumulative impact analysis pursuant to subsection 10.2.8 of Applicant's Handbook volume 1.
- If the wetland mitigation is appropriate and the applicant is proposing to utilize mitigation bank credit as
 wetland mitigation, provide a letter of reservation of credits from the wetland mitigation bank. The wetland
 mitigation bank current credit ledgers can be found out the following link:
 https://www.swfwmd.state.fl.us/business/epermitting/environmental-resource-permit, Go to "ERP Mitigation
 Bank Wetland Credit Ledgers"
- Demonstrate elimination and reduction of wetland impacts.
- Maintain minimum 15 foot, average 25 foot wetland conservation area setback or address secondary impacts.
- On February 15, 2024, the U.S. District Court for the District of Columbia issued a decision vacating the U.S. Environmental Protection Agency's approval of Florida's application to assume Clean Water Act Section 404 permitting responsibilities in certain waters in Florida. In light of this decision, the U.S. Army Corps of

Engineers (USACE) is currently the only entity in the State of Florida with authority to issue permits under Section 404 of the Clean Water Act. The USACE recognizes that either the District Court or an Appellate Court may issue a full or partial stay of the February 15th order at some point. In the interim, applicants may submit applications to the USACE for activities involving the discharge of dredged or fill material into formerly state-assumed waters. The USACE will begin processing any applications it receives, however applicants and stakeholders should recognize the uncertainty surrounding the current litigation. Further information can be found at these two links:

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https://www.saj.usace.army.mil/Missions/Regulatory/

Site Information Discussion: (SHW Levels, Floodplain, Tailwater Conditions, Adjacent Off-Site Contributing Sources, Receiving Waterbody, etc.)

- WBIDs need to be independently verified by the consultant
- Possibly discharging to impaired waters.
- May discharge to a closed basin
- Document/justify SHWE's at pond locations, wetlands, and OSWs.
- Determine normal pool elevations of wetlands.
- Determine 'pop-off' locations and elevations of wetlands.
- Provide documentation to support tailwater conditions for quality and quantity design
- Proposed control structures in wetlands should be consistent with existing 'pop-off' elevations of wetlands; demonstrate no adverse impacts to wetland hydroperiod for up to 2.33yr mean annual storm.
- Minimum flows and levels of receiving waters shall not be disrupted.
- Contamination issues need to be resolved with the FDEP. Check FDEP MapDirect layer for possible contamination points within/adjacent to the project area. FDEP MapDirect Link
 - FDEP Petroleum Contamination Sites 9102709 (RaceTrac #980), 8627485 (7-Eleven Food Store # 32702), 8944197 (Arco-Academy #020), and 8624858 (BP-McIntosh #126)

 For known contamination within the site or within 100' beyond the proposed stormwater management system:
 - after the application is submitted, please contact FDEP staff listed below and provide them with the ERP Application ID # along with a mounding analysis (groundwater elevation versus distance) of the proposed stormwater management system that shows the proposed groundwater mound will not adversely impact the contaminated area. FDEP will review the plans submitted to the District and mounding analysis to determine any adverse impacts. Provide documentation from FDEP that the proposed construction will not result in adverse impacts. This is required prior to the ERP Application being deemed complete. For known offsite contamination between 100' and 1500' beyond the site:
 - FDEP may also require a mounding analysis (groundwater elevation versus distance) for the proposed stormwater systems. SWFWMD will issue the permit when contamination sites are located outside the 100 ft radius prior to concurrence from DEP, however, it is the Permittee's responsibility to resolve contaminated site assessment concerns with the FDEP prior to beginning any construction activities. A permit condition will be used to reiterate this. You are advised to contact DEP.

FDEP Contacts:

- For projects located within Citrus, Hernando, Pasco, Hillsborough, Pinellas, Manatee, Polk and Hardee Counties: Phil Wilkerson; Philip.wilkerson@floridadep.gov
- For projects located within Sarasota, DeSoto, Highlands and Charlotte Counties: Phil Wilkerson; philip.wilkerson@floridadep.gov
- For projects located within Marion, Lake and Sumter Counties: Lu Burson; Lu.burson@floridadep.gov
- For projects located within Levy County: Joni Petry; Joni.Petry@FloridaDEP.gov
- Check for District owned lands over and adjacent to project area.
- Stormwater retention and detention systems are classified as moderate sanitary hazards with respect to
 public and private drinking water wells. Stormwater treatment facilities shall not be constructed within 100
 feet of an existing public water supply well and shall not be constructed within 75 feet of an existing private
 drinking water well. Subsection 4.2, A.H.V.II.
- Any wells on site should be identified and their future use/abandonment must be designated.

- Demonstrate that post development peak discharges from proposed project area will not cause an adverse impact for a 25-year, 24-hour storm event.
- For projects or portions of projects that discharge to a closed basin, limit the post-development 100-year discharge volume to the pre-development 100-year, 24-hour volume.
- Demonstrate that site will not impede the conveyance of contributing off-site flows.
- Demonstrate that the project will not increase flood stages up- or down-stream of the project area(s).
- Watershed Model information may be available for download using the following link: https://watermatters.sharefile.com/d-s8c9019e00fd243908654e733a6b2016c
- Provide equivalent compensating storage for all 100-year, 24-hour riverine floodplain impacts if applicable. Providing cup-for-cup storage in dedicated areas of excavation is the preferred method of compensation- if no impacts to flood conveyance are proposed and storage impacts and compensation occur within the same basin. In this case, tabulations should be provided at 0.5-foot increments to demonstrate encroachment and compensation occur at the same levels. Otherwise, storage modeling will be required to demonstrate no increase in flood stages will occur on off-site properties, using the mean annual, 10-year, 25-year, and 100-year storm events for the pre- and post-development conditions.
- Please be aware that if there is credible historical evidence of past flooding or the physical capacity of the
 downstream conveyance or receiving waters indicates that the conditions for issuance will not be met
 without consideration of storm events of different frequency or duration, applicants shall be required to
 provide additional analyses using storm events of different duration or frequency than the 25-year 24-hour
 storm event, or to adjust the volume, rate or timing of discharges. [Section 3.0 Applicant's Handbook
 Volume II]

Water Quality Discussions: (Type of Treatment, Technical Characteristics, Non-presumptive Alternatives, etc.)

- Provide water quality treatment for entire project area and all contributing off-site flows.
- In addition, if the project discharges to an impaired water body, must provide a net environmental improvement.
- Also, replace treatment function of existing ditches to be filled.
- Presumptive Water Quality Treatment for Alterations to Existing Public Roadway Projects:
 - -Refer to Section 4.5 A.H.V.II for Alterations to Existing Public Roadway Projects.
 - -Refer to Sections 4.8, 4.8.1 and 4.8.2 A.H.V.II for Compensating Stormwater Treatment, Overtreatment, and Offsite Compensation.
 - -All co-mingled existing & new impervious that is proposed to be connected to a treatment pond will require treatment for an area equal to the co-mingled existing & new impervious (times ½" for dry treatment or 1" for wet treatment). This applies whether or not equivalent treatment concepts are used.
 - -However, if equivalent treatment concepts are used it is possible to strategically locate the pond(s) so that the minimum treatment requirement may be for an area equivalent to the new impervious area only. That is, co-mingled existing & new impervious that is not connected to a treatment pond may bypass treatment (as per Section 4.5(2), A.H.V.II); if the 'total impervious area' that is connected to the treatment pond(s) is at least equivalent to the area of new impervious only. The 'total impervious area' that is connected to the pond(s) may be composed of co-mingled existing & new impervious.
 - -Offsite impervious not required to be treated; but may be useful to be treated when using equivalent treatment concepts.
 - -Existing treatment capacity displaced by any road project will require additional compensating volume. Refer to Subsection 4.5(c), A.H.V.II.
- Will acknowledge compensatory treatment to offset pollutant loads associated with portions of the project area that cannot be physically treated.
- Provide additional 50% treatment for any direct discharges to OFW. Refer to ERP Applicant's Handbook Vol. II Subsection 4.1(f).
- Please be advised that although use of isolated wetlands for ERP treatment purposes is permittable as per Section 4.1(a)(3), A.H.V.II, use of isolated wetlands for treatment purposes may not necessarily meet US Army Corps criteria.
- Net improvement
 - -Refer to rule 62-330.301(2), F.A.C.
 - -Applicant may demonstrate a net improvement for the parameters of concern by performing a pre/post pollutant loading analysis based on existing land use and the proposed land use. Refer to ERP Applicant's Handbook Vol. II Subsection 4.1(g).
 - -Effluent filtration is known to be ineffective for treating nutrient related impairments, unless special nutrient adsorption media provided. However, please note special nutrient adsorption media has extremely low

conductivity values compared to typical sand type effluent filtration filter media. Note: if treatment volume required for net improvement is less than the treatment volume required for 'presumptive' treatment, then use of effluent filtration is ok.

Sovereign Lands Discussion: (Determining Location, Correct Form of Authorization, Content of Application, Assessment of Fees, Coordination with FDEP)

N/A

Operation and Maintenance/Legal Information: (Ownership or Perpetual Control, O&M Entity, O&M Instructions, Homeowner Association Documents, Coastal Zone requirements, etc.)

- The permit must be issued to entity that owns or controls the property.
- Provide evidence of ownership or control by deed, easement, contract for purchase, etc. Evidence of ownership or control must include a legal description. A Property Appraiser summary of the legal description is NOT acceptable.
- Provide Homeowners Association (HOA) or Property Owners Association (POA) documents and affidavit.
 Refer to ERP Applicant's Handbook Vol. I Subsection 12.3.4 and Section 7 of the References and Design Aids for Vol. I. Include the <u>Affidavit from DA 7-8 of the AHVI Design Aids</u>.
- The HOA/POA documents, covenants, and deed restrictions will need to address any docking facility, boat uses, wetland, wetland mitigation, and all other applicable regulatory and proprietary restrictions that are a result of the requested uses.

Application Type and Fee Required:

- SWERP Sections A, C, and E of the ERP Application.
- Consult the fee schedule for different thresholds.

Other: (Future Pre-Application Meetings, Fast Track, Submittal Date, Construction Start Date, Required District Permits – WUP, WOD, Well Construction, etc.)

- An application for an individual permit to construct or alter a dam, impoundment, reservoir, or appurtenant work, requires that a notice of receipt of the application must be published in a newspaper within the affected area.
 Provide documentation that such noticing has been accomplished. Note that the published notices of receipt for an ERP can be in accordance with the language provided in Rule 40D-1.603(10), F.A.C.
- Provide a copy of the legal description (of all applicable parcels within the project area) in one of the following forms:
 - a. Deed with complete Legal Description attachment.
 - b. Plat.
 - c. Boundary survey of the property(ies) with a sketch.
- The plans and drainage report submitted electronically must include the appropriate information required under Rules 61G15-23.005 and 61G15-23.004 (Digital), F.A.C. The following text is required by the Florida Board of Professional Engineers (FBPE) to meet this requirement when a digitally created seal is not used and must appear where the signature would normally appear:

ELECTRONIC (Manifest): [NAME] State of Florida, Professional Engineer, License No. [NUMBER] This item has been electronically signed and sealed by [NAME] on the date indicated here using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies

DIGITAL: [NAME] State of Florida, Professional Engineer, License No. [NUMBER]; This item has been digitally signed and sealed by [NAME] on the date indicated here; Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

- Provide soil erosion and sediment control measures for use during construction. Refer to ERP Applicant's Handbook Vol. 1 Part IV Erosion and Sediment Control.
- Demonstrate that excavation of any stormwater ponds does not breach an aquitard (see Subsection 2.1.1, A.H.V.II) such that it would allow for lesser quality water to pass, either way, between the two systems. In those geographical areas of the District where there is not an aquitard present, the depth of the pond(s) shall not be excavated to within two (2) feet of the underlying limestone which is part of a drinking water aquifer. [Refer to Subsection 5.4.1(b), A.H.V.II]

- If lowering of SHWE is proposed, then burden is on Applicant to demonstrate no adverse onsite or offsite impacts as per Subsection 3.6, A.H.V.II. Groundwater drawdown 'radius of influence' computations may be required to demonstrate no adverse onsite or offsite impacts. Please note that new roadside swales or deepening of existing roadside swales may result in lowering of SHWE. Proposed ponds with control elevation less than SHWE may result in adverse lowering of onsite or offsite groundwater.
- On February 15, 2024, the U.S. District Court for the District of Columbia issued a decision vacating the U.S. Environmental Protection Agency's approval of Florida's application to assume Clean Water Act Section 404 permitting responsibilities in certain waters in Florida. In light of this decision, the U.S. Army Corps of Engineers (USACE) is currently the only entity in the State of Florida with authority to issue permits under Section 404 of the Clean Water Act. The USACE recognizes that either the District Court or an Appellate Court may issue a full or partial stay of the February 15th order at some point. In the interim, applicants may submit applications to the USACE for activities involving the discharge of dredged or fill material into formerly state-assumed waters. The USACE will begin processing any applications it receives, however applicants and stakeholders should recognize the uncertainty surrounding the current litigation. Further information can be found at these two links:

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Disclaimer: The District ERP pre-application meeting process is a service made available to the public to assist interested parties in preparing for submittal of a permit application. Information shared at pre-application meetings is superseded by the actual permit application submittal. District permit decisions are based upon information submitted during the application process and Rules in effect at the time the application is complete.

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Date:	4/18/24			
Time:	10 am			
Project Name:	BAR PA 411365 - McIntos	BAR PA 411365 - McIntosh Road PD&E Study/Pond Siting Report		
District Engineer:	Bob Dasta			
District ES:	Kim Dymond			
Attendees:	Carol Conner, Mohit Garg, Jen Rehrl, Kevin Garcia, Mark Mohr, Craig Fox, Joel Johnson, Bendan Brown			
County:	Hillsborough	Sec/Twp/Rge:	19,30/28/21	
Total Land Acreage:	age: Project Acreage: Acres			

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 For known contamination within the site or within 100' beyond the proposed stormwater management system:
 - after the application is submitted, please contact FDEP staff listed below and provide them with the ERP Application ID # along with a mounding analysis (groundwater elevation versus distance) of the proposed stormwater management system that shows the proposed groundwater mound will not adversely impact the contaminated area. FDEP will review the plans submitted to the District and mounding analysis to determine any adverse impacts. Provide documentation from FDEP that the proposed construction will not result in adverse impacts. This is required prior to the ERP Application being deemed complete. For known offsite contamination between 100' and 1500' beyond the site:
 - FDEP may also require a mounding analysis (groundwater elevation versus distance) for the proposed stormwater systems. SWFWMD will issue the permit when contamination sites are located outside the 100 ft radius prior to concurrence from DEP, however, it is the Permittee's responsibility to resolve contaminated site assessment concerns with the FDEP prior to beginning any construction activities. A permit condition will be used to reiterate this. You are advised to contact DEP.

FDEP Contacts:

- For projects located within Citrus, Hernando, Pasco, Hillsborough, Pinellas, Manatee, Polk and Hardee Counties: Phil Wilkerson; Philip.wilkerson@floridadep.gov
- For projects located within Sarasota, DeSoto, Highlands and Charlotte Counties: Phil Wilkerson; philip.wilkerson@floridadep.gov
- For projects located within Marion, Lake and Sumter Counties: Lu Burson; Lu.burson@floridadep.gov
- For projects located within Levy County: Joni Petry; Joni.Petry@FloridaDEP.gov
- Check for District owned lands over and adjacent to project area.
- Stormwater retention and detention systems are classified as moderate sanitary hazards with respect to
 public and private drinking water wells. Stormwater treatment facilities shall not be constructed within 100
 feet of an existing public water supply well and shall not be constructed within 75 feet of an existing private
 drinking water well. Subsection 4.2, A.H.V.II.
- Any wells on site should be identified and their future use/abandonment must be designated.

- Demonstrate that post development peak discharges from proposed project area will not cause an adverse impact for a 25-year, 24-hour storm event.
- For projects or portions of projects that discharge to a closed basin, limit the post-development 100-year discharge volume to the pre-development 100-year, 24-hour volume.
- Demonstrate that site will not impede the conveyance of contributing off-site flows.
- Demonstrate that the project will not increase flood stages up- or down-stream of the project area(s).
- Watershed Model information may be available for download using the following link: https://watermatters.sharefile.com/d-s8c9019e00fd243908654e733a6b2016c
- Provide equivalent compensating storage for all 100-year, 24-hour riverine floodplain impacts if applicable. Providing cup-for-cup storage in dedicated areas of excavation is the preferred method of compensation- if no impacts to flood conveyance are proposed and storage impacts and compensation occur within the same basin. In this case, tabulations should be provided at 0.5-foot increments to demonstrate encroachment and compensation occur at the same levels. Otherwise, storage modeling will be required to demonstrate no increase in flood stages will occur on off-site properties, using the mean annual, 10-year, 25-year, and 100-year storm events for the pre- and post-development conditions.
- Please be aware that if there is credible historical evidence of past flooding or the physical capacity of the
 downstream conveyance or receiving waters indicates that the conditions for issuance will not be met
 without consideration of storm events of different frequency or duration, applicants shall be required to
 provide additional analyses using storm events of different duration or frequency than the 25-year 24-hour
 storm event, or to adjust the volume, rate or timing of discharges. [Section 3.0 Applicant's Handbook
 Volume II]

Water Quality Discussions: (Type of Treatment, Technical Characteristics, Non-presumptive Alternatives, etc.)

- Provide water quality treatment for entire project area and all contributing off-site flows.
- In addition, if the project discharges to an impaired water body, must provide a net environmental improvement.
- Also, replace treatment function of existing ditches to be filled.
- Presumptive Water Quality Treatment for Alterations to Existing Public Roadway Projects:
 - -Refer to Section 4.5 A.H.V.II for Alterations to Existing Public Roadway Projects.
 - -Refer to Sections 4.8, 4.8.1 and 4.8.2 A.H.V.II for Compensating Stormwater Treatment, Overtreatment, and Offsite Compensation.
 - -All co-mingled existing & new impervious that is proposed to be connected to a treatment pond will require treatment for an area equal to the co-mingled existing & new impervious (times ½" for dry treatment or 1" for wet treatment). This applies whether or not equivalent treatment concepts are used.
 - -However, if equivalent treatment concepts are used it is possible to strategically locate the pond(s) so that the minimum treatment requirement may be for an area equivalent to the new impervious area only. That is, co-mingled existing & new impervious that is not connected to a treatment pond may bypass treatment (as per Section 4.5(2), A.H.V.II); if the 'total impervious area' that is connected to the treatment pond(s) is at least equivalent to the area of new impervious only. The 'total impervious area' that is connected to the pond(s) may be composed of co-mingled existing & new impervious.
 - -Offsite impervious not required to be treated; but may be useful to be treated when using equivalent treatment concepts.
 - -Existing treatment capacity displaced by any road project will require additional compensating volume. Refer to Subsection 4.5(c), A.H.V.II.
- Will acknowledge compensatory treatment to offset pollutant loads associated with portions of the project area that cannot be physically treated.
- Provide additional 50% treatment for any direct discharges to OFW. Refer to ERP Applicant's Handbook Vol. II Subsection 4.1(f).
- Please be advised that although use of isolated wetlands for ERP treatment purposes is permittable as per Section 4.1(a)(3), A.H.V.II, use of isolated wetlands for treatment purposes may not necessarily meet US Army Corps criteria.
- Net improvement
 - -Refer to rule 62-330.301(2), F.A.C.
 - -Applicant may demonstrate a net improvement for the parameters of concern by performing a pre/post pollutant loading analysis based on existing land use and the proposed land use. Refer to ERP Applicant's Handbook Vol. II Subsection 4.1(g).
 - -Effluent filtration is known to be ineffective for treating nutrient related impairments, unless special nutrient adsorption media provided. However, please note special nutrient adsorption media has extremely low

conductivity values compared to typical sand type effluent filtration filter media. Note: if treatment volume required for net improvement is less than the treatment volume required for 'presumptive' treatment, then use of effluent filtration is ok.

Sovereign Lands Discussion: (Determining Location, Correct Form of Authorization, Content of Application, Assessment of Fees, Coordination with FDEP)

N/A

Operation and Maintenance/Legal Information: (Ownership or Perpetual Control, O&M Entity, O&M Instructions, Homeowner Association Documents, Coastal Zone requirements, etc.)

- The permit must be issued to entity that owns or controls the property.
- Provide evidence of ownership or control by deed, easement, contract for purchase, etc. Evidence of ownership or control must include a legal description. A Property Appraiser summary of the legal description is NOT acceptable.
- Provide Homeowners Association (HOA) or Property Owners Association (POA) documents and affidavit.
 Refer to ERP Applicant's Handbook Vol. I Subsection 12.3.4 and Section 7 of the References and Design Aids for Vol. I. Include the Affidavit from DA 7-8 of the AHVI Design Aids.
- The HOA/POA documents, covenants, and deed restrictions will need to address any docking facility, boat uses, wetland, wetland mitigation, and all other applicable regulatory and proprietary restrictions that are a result of the requested uses.

Application Type and Fee Required:

- SWERP Sections A, C, and E of the ERP Application.
- Consult the fee schedule for different thresholds.

Other: (Future Pre-Application Meetings, Fast Track, Submittal Date, Construction Start Date, Required District Permits – WUP, WOD, Well Construction, etc.)

- An application for an individual permit to construct or alter a dam, impoundment, reservoir, or appurtenant work, requires that a notice of receipt of the application must be published in a newspaper within the affected area.
 Provide documentation that such noticing has been accomplished. Note that the published notices of receipt for an ERP can be in accordance with the language provided in Rule 40D-1.603(10), F.A.C.
- Provide a copy of the legal description (of all applicable parcels within the project area) in one of the following forms:
 - a. Deed with complete Legal Description attachment.
 - b. Plat.
 - c. Boundary survey of the property(ies) with a sketch.
- The plans and drainage report submitted electronically must include the appropriate information required under Rules 61G15-23.005 and 61G15-23.004 (Digital), F.A.C. The following text is required by the Florida Board of Professional Engineers (FBPE) to meet this requirement when a digitally created seal is not used and must appear where the signature would normally appear:

ELECTRONIC (Manifest): [NAME] State of Florida, Professional Engineer, License No. [NUMBER] This item has been electronically signed and sealed by [NAME] on the date indicated here using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies

DIGITAL: [NAME] State of Florida, Professional Engineer, License No. [NUMBER]; This item has been digitally signed and sealed by [NAME] on the date indicated here; Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

- Provide soil erosion and sediment control measures for use during construction. Refer to ERP Applicant's Handbook Vol. 1 Part IV Erosion and Sediment Control.
- Demonstrate that excavation of any stormwater ponds does not breach an aquitard (see Subsection 2.1.1, A.H.V.II) such that it would allow for lesser quality water to pass, either way, between the two systems. In those geographical areas of the District where there is not an aquitard present, the depth of the pond(s) shall not be excavated to within two (2) feet of the underlying limestone which is part of a drinking water aquifer. [Refer to Subsection 5.4.1(b), A.H.V.II]

- If lowering of SHWE is proposed, then burden is on Applicant to demonstrate no adverse onsite or offsite impacts as per Subsection 3.6, A.H.V.II. Groundwater drawdown 'radius of influence' computations may be required to demonstrate no adverse onsite or offsite impacts. Please note that new roadside swales or deepening of existing roadside swales may result in lowering of SHWE. Proposed ponds with control elevation less than SHWE may result in adverse lowering of onsite or offsite groundwater.
- On February 15, 2024, the U.S. District Court for the District of Columbia issued a decision vacating the U.S. Environmental Protection Agency's approval of Florida's application to assume Clean Water Act Section 404 permitting responsibilities in certain waters in Florida. In light of this decision, the U.S. Army Corps of Engineers (USACE) is currently the only entity in the State of Florida with authority to issue permits under Section 404 of the Clean Water Act. The USACE recognizes that either the District Court or an Appellate Court may issue a full or partial stay of the February 15th order at some point. In the interim, applicants may submit applications to the USACE for activities involving the discharge of dredged or fill material into formerly state-assumed waters. The USACE will begin processing any applications it receives, however applicants and stakeholders should recognize the uncertainty surrounding the current litigation. Further information can be found at these two links:

https://floridadep.gov/water/submerged-lands-environmental-resources-coordination/content/state-404-program

https://www.saj.usace.army.mil/Missions/Regulatory/

Disclaimer: The District ERP pre-application meeting process is a service made available to the public to assist interested parties in preparing for submittal of a permit application. Information shared at pre-application meetings is superseded by the actual permit application submittal. District permit decisions are based upon information submitted during the application process and Rules in effect at the time the application is complete.



MEETING MINUTES

FDOT Pond Site Selection Meeting

DATE/TIME: May 1, 2024; 1:30 pm

PROJECT: FPID 447157-1-32-01

McIntosh Road PD&E Study

LOCATION: FDOT D7 HQ Tarpon Room and Teams

ATTENDEES:

FDOT: Craig Fox, Kirk Bogen, Bill McTeer, Lesli Sanchez, Marcel Goss, Lisa Quinn, Robin Rhinesmith, Charlie Xie

PGA: Carol Conner, Jen Rehrl, Kevin Garcia
CDM Smith: Mohit Garg, Reja Rabbi, Brendan Brown

The following notes reflect PGA's understanding of the discussions and decisions made at this meeting. If you have any questions, additions, or comments regarding elements contained in these minutes, please contact PGA. The minutes will be considered accurate unless written notice is received within five working days of the date issued.

After introductions, an update of the project from the previous meeting was provided:

- Per direction from FDOT, the US-92 portions of the project were eliminated from the PSR. McIntosh Road is included, as well as any basins that were combination McIntosh/US-92 basins for efficiency.
- Site specific geotechnical information was received for all SMF and FPC alternatives. In general, the Seasonal High
 Groundwater (SHGW) elevations were significantly higher than those previously estimated from NRCS. For the PSR, the SMF
 sites will remain the same and liners will be assumed where needed to keep the assumed control levels. Several of the FPC
 sites required enlargement, since liners are not an option for them. Updated ROW costs for the larger FPC sites will be
 needed.

Review and discussion of the Matrix for the Alternative SMF Sites:

- Basin 1 & 7: SMF 1&7-1 is recommended as the preferred site based on lower cost, less contamination risk and lower
 potential species impact. After some discussion regarding the ROW costs, FDOT concurred with the recommendation.
- Basin 2: SMF 2-2 is recommended as the preferred site based on lower costs and no relocations. FDOT concurred with the recommendation.
- Basin 3: SMF 3-2 is recommended as the preferred site based on lower costs and similar contamination risk and potential species impacts. FDOT asked for the cost of the extended stormdrain inflow pipe, including the cost of reconstructing Newsome Road be added into the comparative costs. It was determined if that resulted in a higher cost for SMF 3-2, that the recommendation would be changed to SMF 3-1. Post-meeting update: Based on the additional construction cost, SMF 3-1 has a lower cost than SMF 3-2, so the recommended preferred site has been changed to SMF 3-1.
- Basin 4: Upon further review of information on Existing FDOT Pond 7, it appears to have adequate capacity for Basin 4, with some minor modification and will be shown as the sole alternative for Basin 4.
- Basin 5: SMF 5-3 is recommended as the preferred site. Although it has higher cost than SMF 5-2, there is a lower contamination risk. FDOT requested that the preferred site be revised to SMF 5-2 based on the lower cost.

MEETING MINUTES

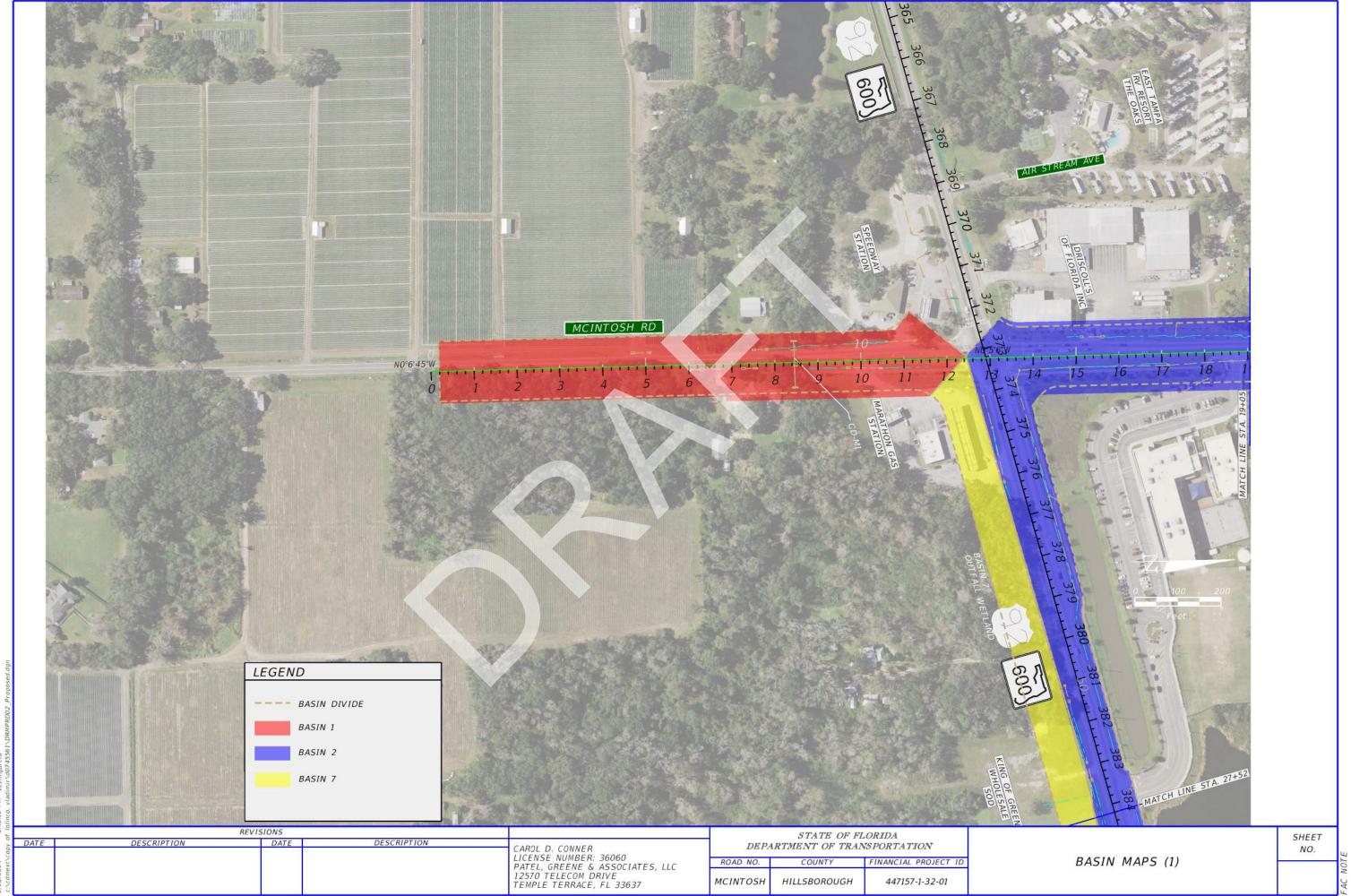
Review and discussion of the Matrix for the Alternative FPC Sites:

- FPC 1: Based on the updated SHGW elevations, the size of FPC 1-1 has increased. FPC 1-2 is no longer a viable site since the SHGW is at or above the ground surface. Therefore, FPC 1-1 will be the preferred (and only) alternative. There are no other viable alternatives. However, the report will discuss both alternatives to show multiple sites were explored initially and FPC 1-2 was unfeasible based on updated SHGW elevation.
- FPC 2: Based on the updated SHGW elevations, the size of FPC 2-1 increased and a third area (FPC 2-2C) is required for FPC 2-2. FPC 2-1 is recommended as the preferred alternative based on lower costs, less contamination risk and fewer relocations. FDOT concurred with the recommendation.
- FPC 3: Based on the updated SHGW elevations, the size of both FPC 3-1 and 3-2 was increased. FPC 3-1 was
 recommended as the preferred alternative based on lower costs and similar contamination risk and potential species impacts.
 FDOT concurred with the recommendation. Post-meeting update: FPC 3-1 overlaps recommended preferred SMF alternative
 SMF 2-2. It is anticipated that the costs for FPC 3-1 and 3-2 will be similar after the ROW costs are adjusted based on the
 acreage increases, the recommended preferred alternative is changed to FPC 3-2.
- FPC 4: Based on the updated SHGW elevations, the size of FPC 4-1 has increased. FPC 4-2 is no longer a viable site since the SHGW is at or above the ground surface. Therefore, FPC 4-1 will be the preferred (and only) alternative. There are no other viable alternatives. However, the report will discuss both alternatives to show multiple sites were explored initially and FPC 4-2 was unfeasible based on updated SHGW elevation. FPC 5: Based on the updated SHGW elevations, the size of FPC 5-1 has decreased and the size of FPC 5-2 has increased. FPC 5-1 is recommended as the preferred cost based on lower cost and fewer relocations. It was discussed that the Medium contamination risk at Site 13 was primarily due to the potential location of buried materials.

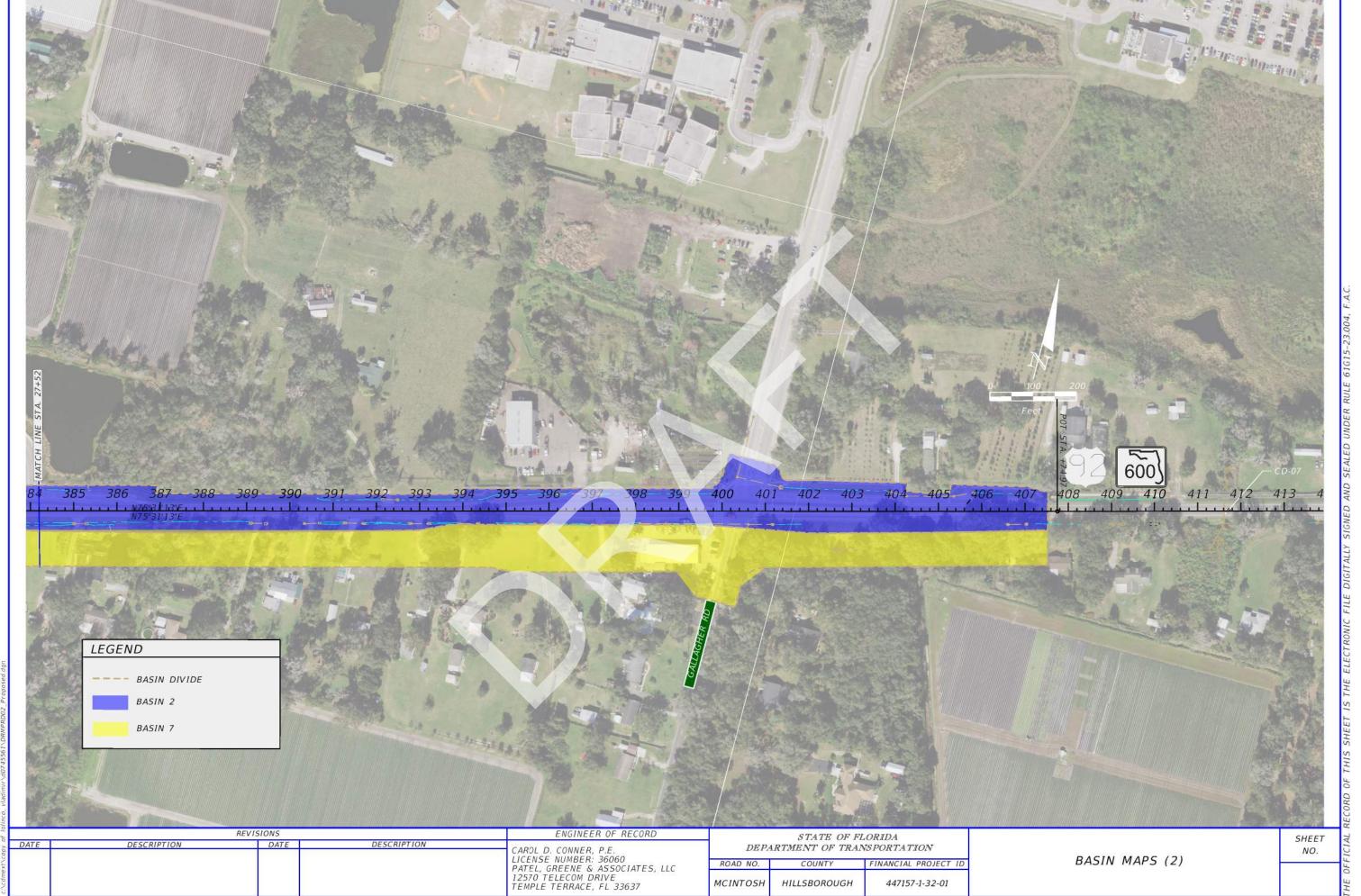


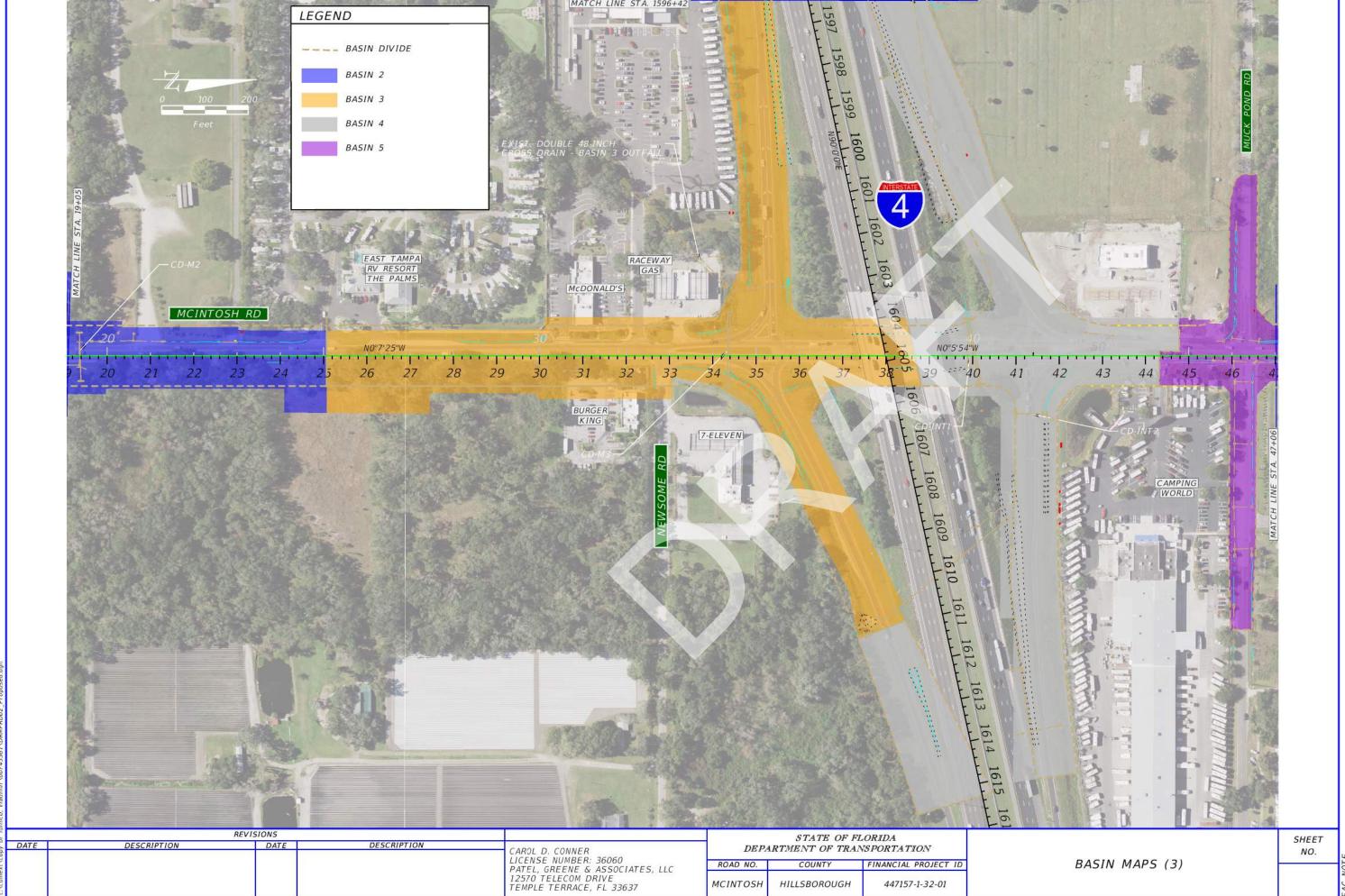


Appendix GProposed Basin Maps



5/28/2024 NA C1-08-5







MCINTOSH

HILLSBOROUGH

447157-1-32-01



MCINTOSH

HILLSBOROUGH

447157-1-32-01



Appendix H

Excerpts from TBNext Draft Pond Evaluation Report

State Road 400 (I-4)

From Selmon Connector to East of Branch Forbes Road

FPID 431746-3-52-01

DRAFT POND EVALUATION REPORT

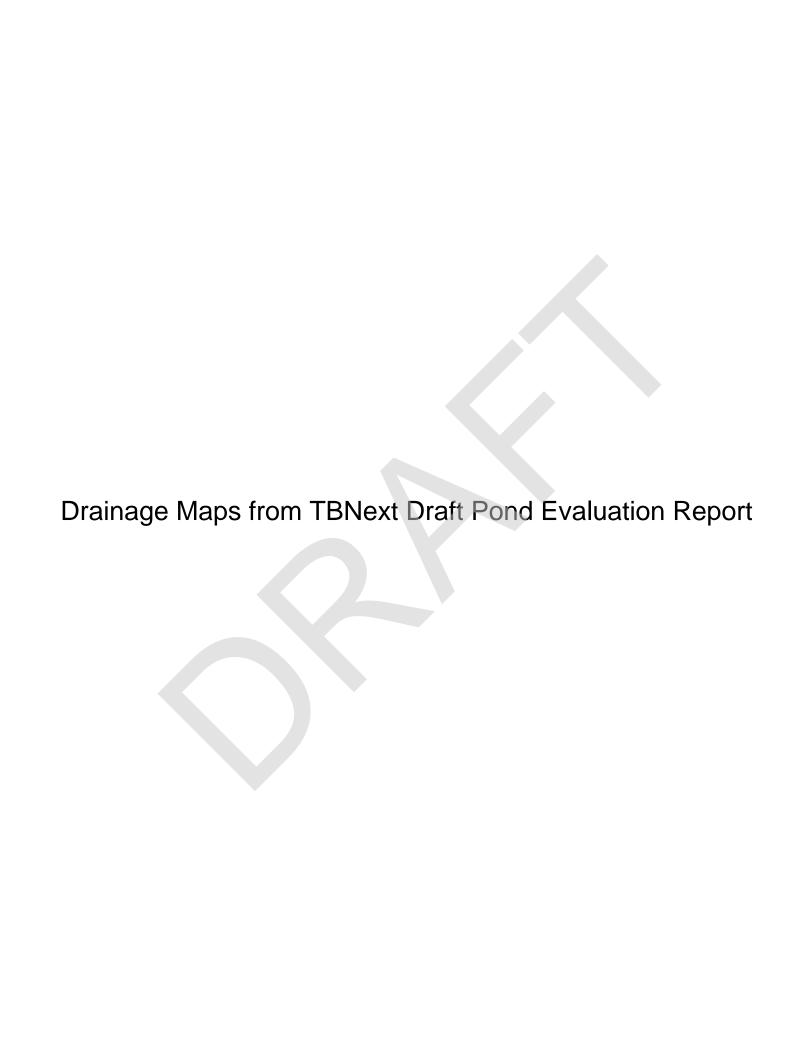
April 2023

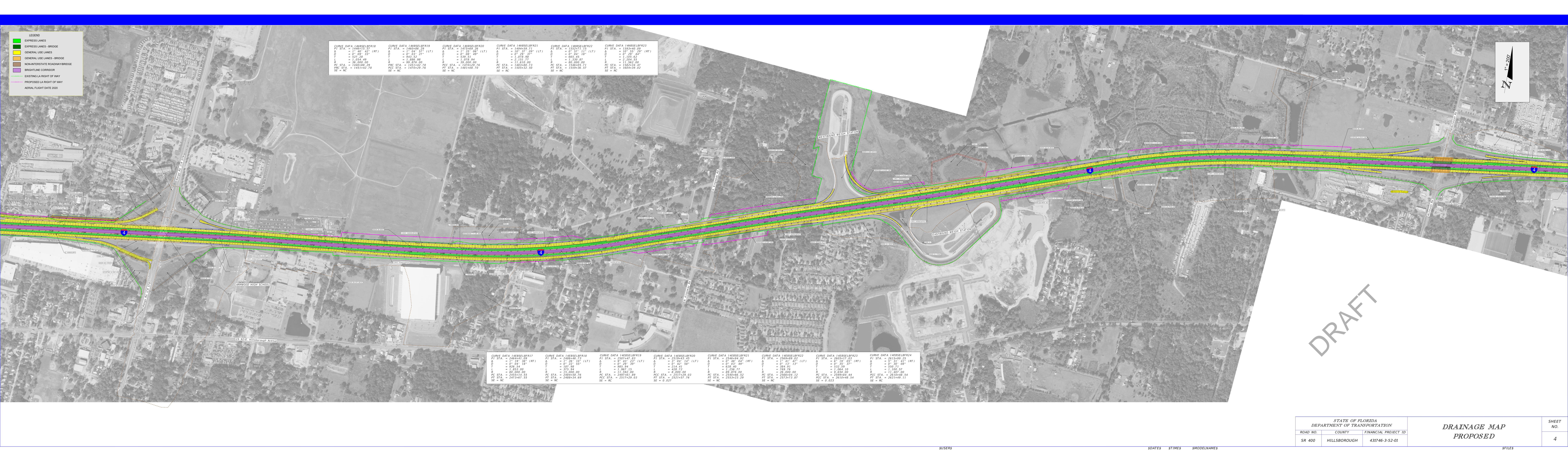
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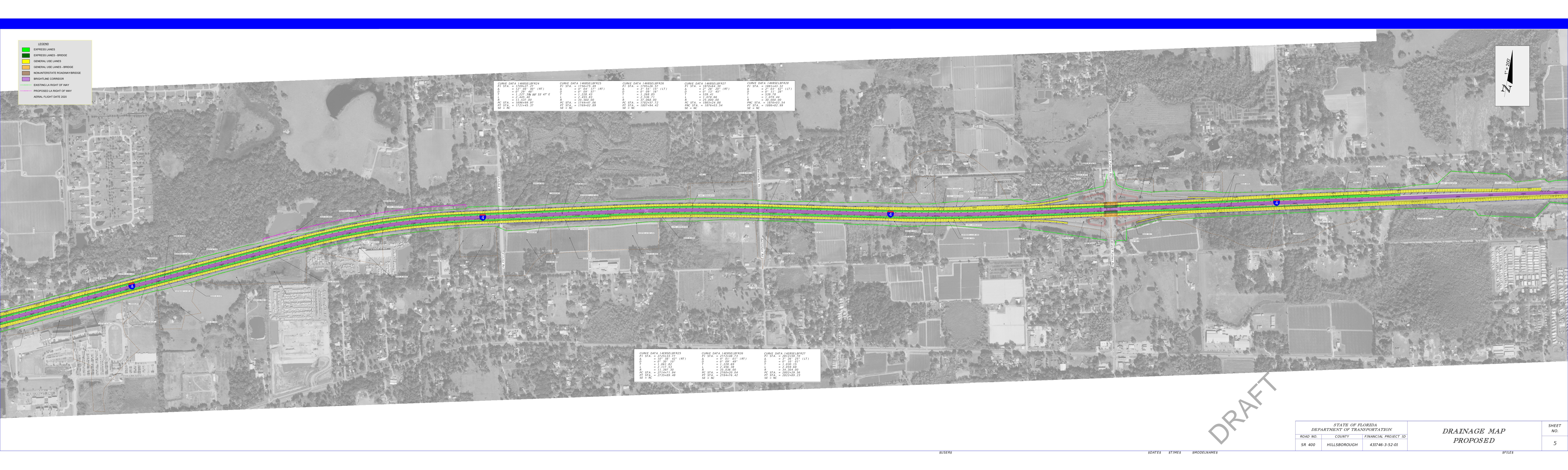
FDOT District 7

11201 N. McKinley Dr. Tampa, FL 33612

Phone: (800) 226-7220







Drainage Maps from I-4 Permit 11896.000

PBS POST, BUCKLEY, SCHUH & JERNIGAN, INC.

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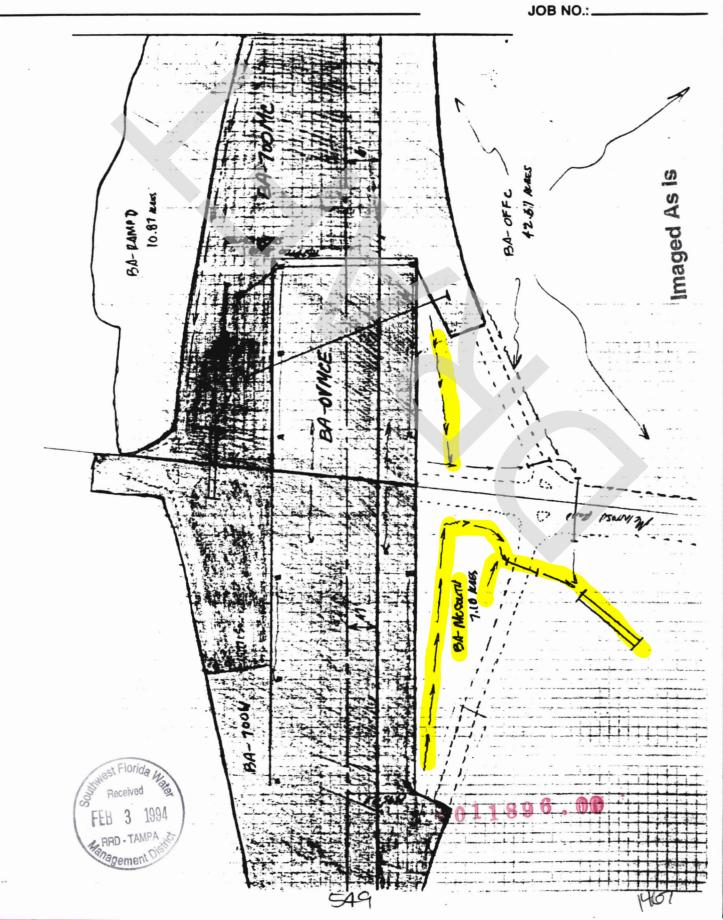
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ICPR Node Diagram from I-4 Permit 11896.000

Project C:\BRNV32\POND700.WBS\POND7.BRN
Last Revised on Thu Nov 11 11:36:43 1993
Run of Thu Nov 11 11:37:10 1993 (Status = CONVERGED)

Project Contains 17 Paths. Project Contains 18 Nodes.

Path	Up Stream Node Name	Down Stream Node Name	Path Type
0	INF6PR	OUTFALL	DIRECT
1	BA700SE	POND7	DIRECT
2	BAMCSOUTH	OUTFALL	DIRECT
3	BAOFF3	POND7	DIRECT
4	BAOFF4	POND7	DIRECT
5	BAOFF1	POND7	DIRECT
6	BAOFF2	POND7	DIRECT
7	BARAMPD	POND7	DIRECT
8	BAOFFC	OUTFALL	DIRECT
9	BAOVMCE	POND7	DIRECT
10	BA700MC	POND7	DIRECT
11	BA700SW	POND7	DIRECT
12	BAPOND7	POND7	DIRECT
13	BAMCEAST	POND7	DIRECT
14	BA700W	POND7	DIRECT
15	POND7	JUNCTION1	ORIFICE
16	JUNCTION1	OUTFALL	PIPE

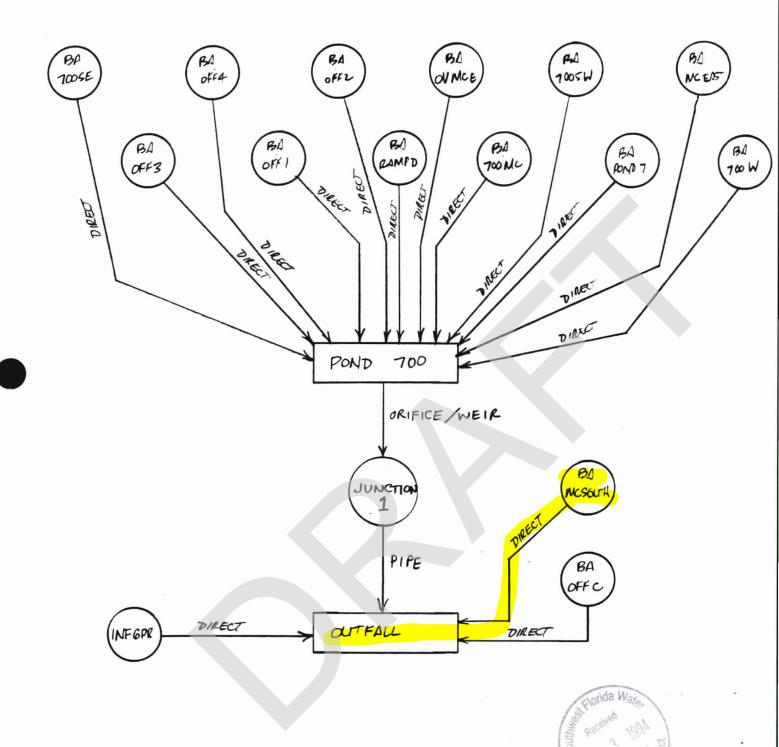
Node	Name	Node	Туре
0	OUTFALL	STAG	NG
1	BA700SE	SUBAR	REA
2	BAMCSOUTH	SUBAR	REA
3	BAOFF3	SUBAR	REA
4	BAOFF4	SUBAR	REA
5	BAOFF1	SUBAR	REA
6	BAOFF2	SUBAR	REA
7	BARAMPD	SUBAR	REA
8	BAOFFC	SUBAR	REA
9	BAOVMCE	SUBAR	REA
10	BA700SW	SUBAR	REA
11	BAPOND7	SUBAR	REA
12	INF6PR	INFLO	W
13	BA700MC	SUBAR	EA
14	BAMCEAST	SUBAR	REA
15	BA700W	SUBAR	EA
16	POND7	POND	
17	JUNCTION1	JUNCI	CION



PBS POST, BUCKLEY, SCHUH & JERNIGAN, INC.

CT: I-4 HILLSBOROUGH SEGMENT II

BASIN 700 PROPUSED



Excerpts from TBNext's Draft Pond Evaluation Report Recreated Pre Condition ICPR Input

EXISTING / RECREATED PERMITTED CONDITION ICPR

Simple Basin: BA700MC

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 38.0400 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 12.0100 ac

Curve Number: 89.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BA700SE

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 71.5800 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 8.9800 ac Curve Number: 88.0 % Impervious: 0.00

% DCIA: 0.00 % Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BA700SW

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number Time of Concentration: 23.2200 min Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 5.5200 ac

Curve Number: 94.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin · BA700W

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 34.8000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256

Peaking Factor: 256.0

Area: 11.8600 ac

Curve Number: 95.0 % Impervious: 0.00 % DCIA: 0.00

% Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BAMCEAST

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 106.2000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 11.0200 ac

Curve Number: 92.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BAMCSOUTH

Scenario: Permitted Condition

Node: OUTFALL

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 141.7200 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 7.1000 ac

Curve Number: 87.0 % Impervious: 0.00

% DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BAOFF1

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 131.4600 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

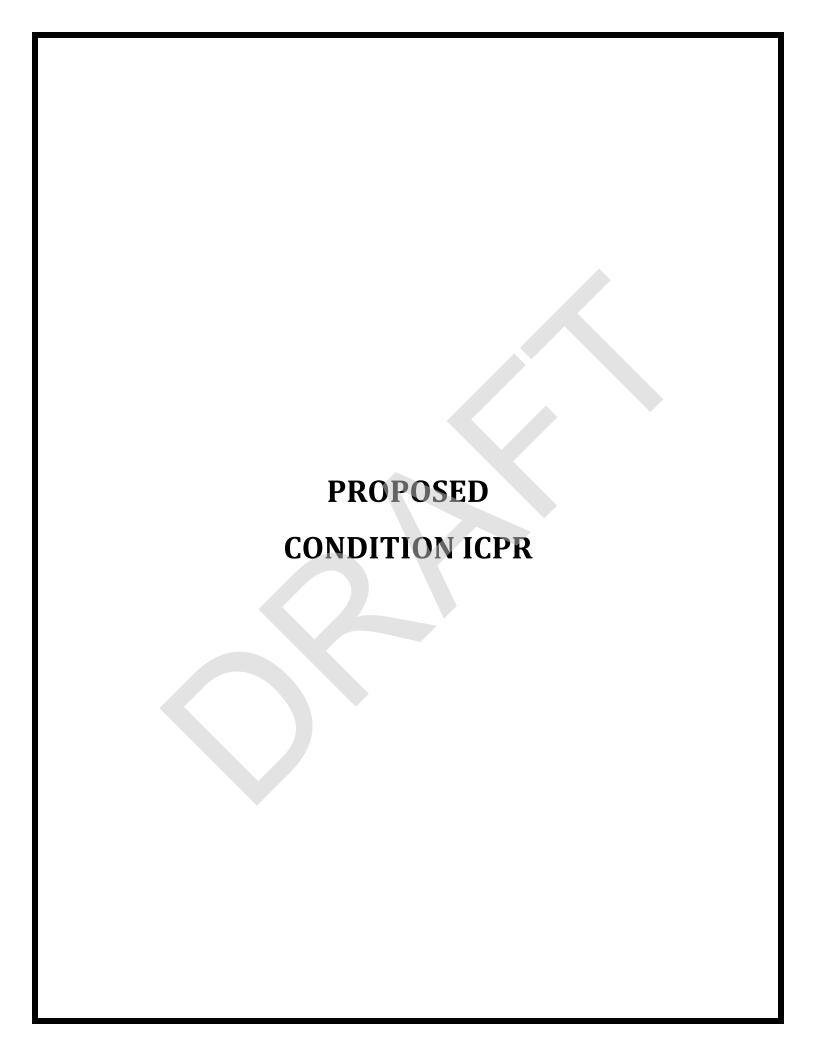
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 2.3100 ac

AIGa. 2.3100

Curve Number: 72.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00

Rainfall Name:

Comment:



Simple Basin: BA700BL

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 44.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 5.9500 ac

Curve Number: 98.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BA700MC

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 38.0400 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 8.5900 ac

Curve Number: 93.3 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BA700SE

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 71.5800 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 6.3600 ac

Curve Number: 92.3
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BA700SW

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 23.2200 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 6.5800 ac

Curve Number: 95.4 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BA700W

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 34.8000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 11.8500 ac

Curve Number: 93.2 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BAMCEAST

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 106.2000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256

Peaking Factor: 256.0 Area: 9.7300 ac

Curve Number: 89.7
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAMCSOUTH

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 141.7200 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 6.9400 ac

Curve Number: 89.3 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

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2.6 General Analysis Approach

Below is a list of relevant analysis approach considerations:

- The current roadway design is preliminary and subject to change. Future design updates may affect the analyzed SMF/FPC approach.
- The analysis includes the proposed improvements as shown on the 15% Line and Grade Roadway roll plots. The analysis also includes the proposed Brightline corridor assuming 100% impervious footprint, as well as Operational Improvements at the McIntosh (FPID 447157-1) and Branch Forbes (FPID 447159-1) Roads.
- The analysis of the Brightline corridor and Operational Improvements is limited to accounting for the anticipated impervious areas within the analyzed drainage basin limits and based on the available CADD files.
- The SMF/FPC needs between the Orient Road (east of Basin 2, ERP 13922.000) and west of I-75 (west of Basin 100, ERP 11896.000) are being analyzed by FPIDs 430337-1 / FPID 430338-1.
- The analysis of the existing SMFs is utilizing design storm events consistent with the original design which occasionally may vary from the current FDOT design criteria.
- The analysis of the existing SMFs is maximizing the use of the existing pond storage volume by increasing the allowable Design High Water (DHW) to provide no less than 0.50 feet of freeboard for the 100-year design storm event (see PSR Kickoff Meeting minutes in Appendix L).
- The analysis of the existing SMFs includes preliminary assessment of the proposed Low Edge of Pavement (LEOP) with respect to the proposed SMF DHW and drainage conveyance feasibility design. Typically, 50-year DHW is utilized for the I-4 mainline and 10-year DHW is utilized for other locations, such as the entrance or exit ramps.
- The analysis assumes the original design/permitted off-site basin boundaries when contributing to the FDOT Right-of-Way. As needed, the off-site basin boundaries will be updated during the CDP SMF design.
- To maintain the continuity between the original design and the current proposed improvements, the analysis will maintain the previously established soil CNs. Given the original designs do not illustrate the previous soil limits in detail, the CN modifications are performed as follows:
 - When an impervious area is added to the basin, the impervious area replaces the soil with the lowest CN in the previously established composite CN.
 - When an impervious area is removed from the basin, the impervious area is replaced by the soil with the highest CN in the previously established composite CN.
- Consistent with discussions during the PSR coordination meeting (see Pond 4 Permitted Condition Model Meeting Minutes in Appendix L), alternatives for new/modified SMFs which require an additional Right-of-Way are not identified at this time and will be identified in the next submittal of this report.
- Consistent with the original/permitted design, water quality wet detention bleed down devices are not included in some flood routing calculations.

Table 5: Water Quantity Summary - Discharge Rates

							or trater quartity our				
						WATE	R QUANTITY SUMMA				
				SWFWN	AD 25YR			FDOT (10	OOYR 8HR)		
Permit	Basin	Pond	Permitted Pre-	Permitted Post-	Recreated	Proposed Post-	Permitted Pre-	Permitted Post-	Recreated	Proposed Post-	Design Comment
	Name	Name	Development	Development	Permitted Post-	Development	Development	Development	Permitted Post-	Development	
		200-6	N/A	N/A	Development N/A	N/A	N/A	N/A	Development N/A	N/A	Proposed impervious <permitted analysis.<="" further="" impervious.="" no="" td=""></permitted>
		200-7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Proposed impervious <permitted analysis.<="" further="" impervious.="" no="" td=""></permitted>
	200	200-8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Proposed impervious <permitted analysis.<="" further="" impervious.="" no="" td=""></permitted>
20690.007		200-8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No work proposed within basin limits. No further analysis.
20030.007		300-1A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No work proposed within basin limits. No further analysis.
	300	300-1R	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Proposed impervious <permitted analysis.<="" further="" impervious.="" no="" td=""></permitted>
		300-BP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Proposed impervious <permitted analysis.<="" further="" impervious.="" no="" td=""></permitted>
		400-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Proposed impervious <permitted analysis.<="" further="" impervious.="" no="" td=""></permitted>
	400	400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Proposed impervious <pre>permitted impervious. No further analysis.</pre>
20690.001		800-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Proposed impervious <permitted analysis.<="" further="" impervious.="" no="" td=""></permitted>
	800	800-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Proposed impervious <permitted analysis.<="" further="" impervious.="" no="" td=""></permitted>
		800-3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Proposed impervious <permitted analysis.<="" further="" impervious.="" no="" td=""></permitted>
	1	1	58.67	23.71	23.34	23.79	63.21	34.22	33.23	32.03	100YR 8 HR FDOT
	2	2	74.66	36.09	41.20	39.03	77.32	55.56	55.80	52.89	100YR 8 HR FDOT
	4	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
	_	5A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
13922.000	5	5B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
	7	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
		8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
	8	8A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
		8B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
42183.004	18	18A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
42183.000	Α	Α	64.25	51.00	50.94	50.58	90.08	68.61	68.26	67.76	Inflows measured at Node NA02.
N/A	А	A2	04.25	51.00	50.94	50.56	90.08	00.01	06.20	07.70	
		1A	NOT FOUND	20.60	20.73	20.73	NOT FOUND	23.77	23.24	23.24	
	100	1B	139.68 *	141.28 *	139.37 *	140.33 *	245.27 *	238.56 *	233.32 *	235.00 *	* Measured via inflow to Node 2B as the northeast quadrant of the
		1C	155.00	141.20	133.37	140.55	243.27	230.30	255.52	255.00	interchange is analyzed via ERP 42183.000 model.
	200	2									Ponds 2A and 2B equalized and outfall via Pond 3A to Pond 2 which
11896.000		3A									outfalls .
11030.000		3B	115.58	102.15	85.50	88.64	131.43	143.88	127.05	123.74	
	300	3C	113.30	102.13	03.30	33.04	131.43	145.00	127.03	123.74	
		3D									
		3E									
	400	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Closed basin pond with no discharge.
11899.007	500	5	31.54	31.17	31.38	30.48	51.04	48.48	49.18	46.45	
		S-1									
	600	6A								1	Basins 600 and 700 are measured as a total to Pemberton Creek via
11896.000		6B	192.88	157.57	160.74	1 50.3 4	252.19	208.59	225.42	209.45	Basin 700 model. Post Basin 600 entered as baseflow to Post Basin 700
	700	<u>7</u>									model.
	800	8	30.49	39.05	39.59	38.18	48.41	63.47	63.08	60.32	Basins 800, 900, 1000 and 1100 are measured as a total to Pemberton
11896.001	900	9	50.27 170.26	45.33 156.30	48.48 174.81	41.09 161.69	70.39 239.06	56.70 226.71	53.65 229.63	51.63 223.12	Creek. Recreated Post-Development for Basin 800 required correction
	1000	10	39.24	22.69	36.00	33.34	47.11	35.07	43.40	42.11	of 3 sub-basins which were routed in permitted model to pond but
	1100	11	50.26	49.23	50.74	49.08	73.15	71.47	69.50	69.06	actually didn't.
N/A	1100	BABFN2	8.89 *	N/A	N/A	7.43	10.81 *	N/A	N/A	10.57	* Pre-Development (not previously permitted)
•		BABFS2	9.68 *	N/A	N/A	8.60	12.02 *	N/A	N/A	11.82	* Pre-Development (not previously permitted)
11896.002	100	1	11.51	8.96	8.07	7.81	N/A	N/A	N/A	N/A	No FDOT events per available documentation.
N1 /A		1A	12.29	10.88	9.52	9.95	N/A	N/A	N/A	N/A	No FDOT events per available documentation.
N/A	100	1D					N/A	N/A	N/A	N/A	N. FROT I
11896.002	200	2A	40.02	36.75	38.42	38.62	N/A	N/A	N/A	N/A	No FDOT events per available documentation. Ponds 2A and 2B
		2B				L	N/A	N/A	N/A	N/A	equalized and outfall via Pond 2B.

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treatment/impervious area for Pond 6B, modification to control structures is required to provide the necessary treatment volume.

The recreated permitted post-development discharge rate for the SWFWMD 25-year 24-hour design storm is 160.74 cfs, while the proposed post-development discharge rate is 150.34 cfs. The recreated permitted post-development discharge rate for the FDOT 100-year 8-hour design storm is 225.42 cfs, while the proposed post-development discharge rate is 209.45 cfs. Meeting the attenuation needs will require Pond 6A and Pond 6B control structure modification.

Refer to Appendix E for proposed condition drainage map exhibits and Appendix F for summary of proposed condition basin parameters, proposed condition flood routing model and summary of proposed pond design parameters.

3.12.3 Alternatives Evaluation

The water quality treatment and water quantity attenuation analysis revealed existing Pond 6A and 6B are sufficient for the proposed improvements. No alternatives evaluation is required.

3.13 Roadway Basin 700 (ERP 11896.000)

3.13.1 Pre-Development Analysis

Roadway Basin 700 extends from Station 2624 to Station 2690 CL I4EBSELBFR and it includes existing permitted stormwater management facilities. Runoff sheet flows from the existing roadway to roadside ditches and storm drains until it reaches the existing Pond 7 permitted under SWFWMD ERP 11896.000. According to the previous design information, Pond 7 has been designed for a treatment area of 35.48 ac and impervious area of 36.87 ac. Water quality treatment in the existing pond is provided via wet detention (1.0 in of runoff over the treatment area). The previous design intent required a treatment volume of 2.96 ac-ft while Pond 7 provided treatment volume of 3.31 ac-ft, sufficient for up to 39.72 ac of treatment/impervious area.

The previous design analyzed the existing pond for the SWFWMD 25-year 24-hour and FDOT 100-year 8-hour design storm events. The design also measured combined discharges between Basins 600 and 700. For the SWFWMD 25-year 24-hour event, the permitted pre-development discharge rate is 192.88 cfs and the permitted post-development discharge rate is 157.57 cfs. For the FDOT 100-year 8-hour event, the permitted pre-development discharge rate is 252.19 cfs and the permitted post-development discharge rate is 208.59 cfs.

Refer to Appendix D for previous design information, Appendix E for existing/permitted condition drainage map exhibits and Appendix F for summary of existing/permitted condition basin parameters, recreated existing/permitted condition flood routing model and summary of existing/permitted pond design parameters.

3.13.2 Post-Development Analysis

The limits of Roadway Basin 700 will remain unchanged from the permitted condition. Runoff from the widened roadway will be collected in drainage conveyances and routed to the existing Pond 7 for stormwater treatment and attenuation. The treatment area will be considered the total proposed

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impervious area of 41.54 ac. Since the permitted provided treatment volume is sufficient for 39.72 ac of treatment/impervious area, modification to Pond 7 control structure is required to provide the necessary treatment volume.

The recreated permitted post-development discharge rate for the SWFWMD 25-year 24-hour design storm is 160.74 cfs, while the proposed post-development discharge rate is 150.34 cfs. The recreated permitted post-development discharge rate for the FDOT 100-year 8-hour design storm is 225.42 cfs, while the proposed post-development discharge rate is 209.45 cfs. Meeting the attenuation needs will require Pond 7 control structure modification.

Refer to Appendix E for proposed condition drainage map exhibits and Appendix F for summary of proposed condition basin parameters, proposed condition flood routing model and summary of proposed pond design parameters.

3.13.3 Alternatives Evaluation

The water quality treatment and water quantity attenuation analysis revealed the existing Pond 7 is sufficient for the proposed improvements. No alternatives evaluation is required.

3.14 Roadway Basin 800 (ERP 11896.001)

3.14.1 Pre-Development Analysis

Roadway Basin 800 extends from Station 2690 to Station 2738 CL I4EBSELBFR and it includes existing permitted stormwater management facilities. Runoff sheet flows from the existing roadway to roadside ditches and storm drains until it reaches the existing Pond 8 permitted under SWFWMD ERP 11896.001. According to the previous design information, Pond 8 has been designed for a treatment area of 20.11 ac and impervious area of 23.17 ac. Water quality treatment in the existing pond is provided via wet detention (1.0 in of runoff over the treatment area). The previous design intent required a treatment volume of 1.68 ac-ft while Pond 8 provided treatment volume of 1.53 ac-ft, sufficient for up to 18.36 ac of treatment/impervious area. 3.06 ac of the proposed impervious area (subbasins BA 5 x 4M and BA 5 x 4M) was permitted to discharge untreated to the existing cross drain. According to the previous design documentation, 3.7 ac of agricultural and residential areas within Basins 900 and 1000 were treated in compensation for that impervious area.

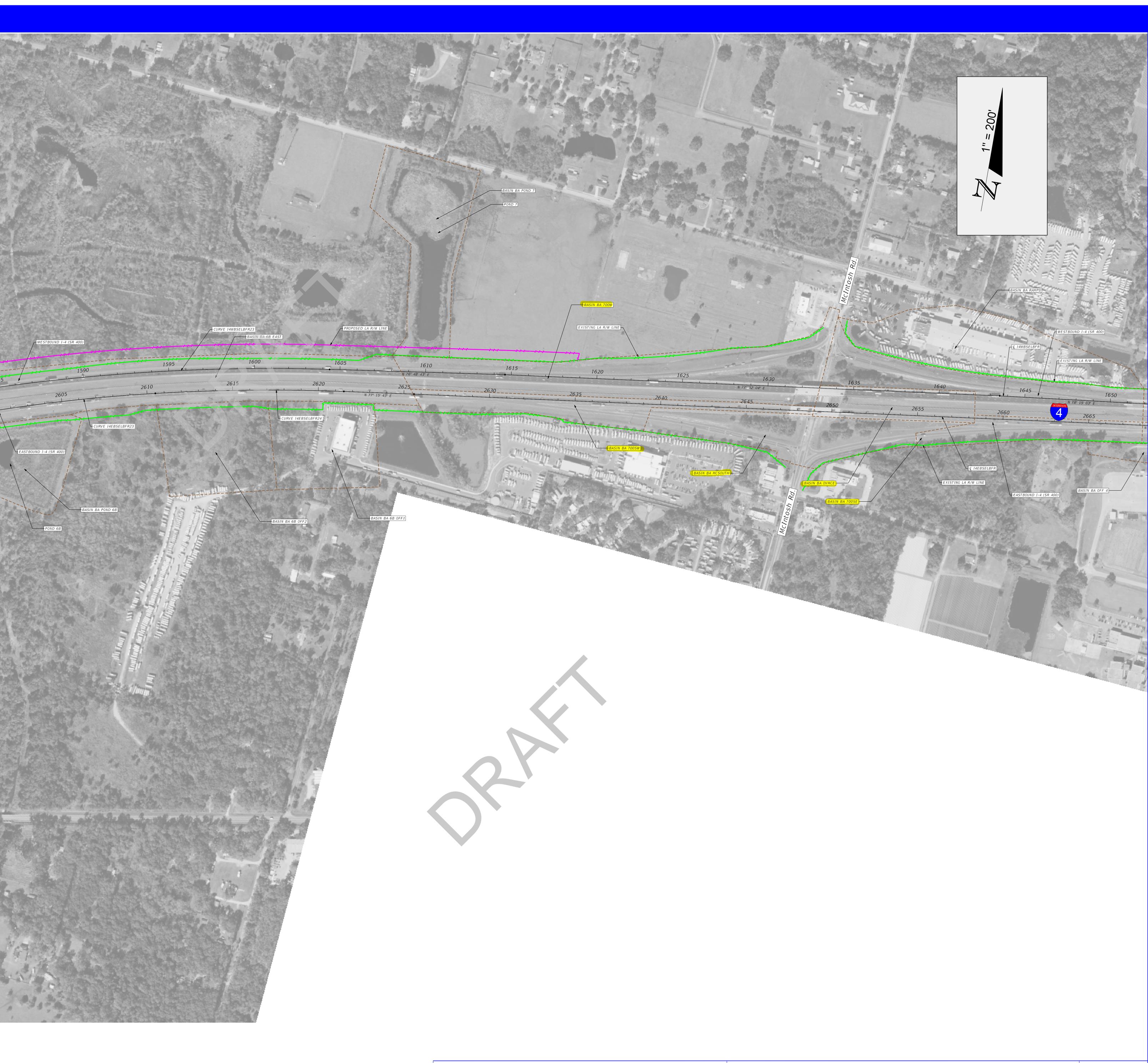
The previous design analyzed the existing pond for the SWFWMD 25-year 24-hour and FDOT 100-year 8-hour design storm events. For the SWFWMD 25-year 24-hour event, the permitted pre-development discharge rate is 30.49 cfs and the permitted post-development discharge rate is 39.05 cfs. For the FDOT 100-year 8-hour event, the permitted pre-development discharge rate is 48.41 cfs and the permitted post-development discharge rate is 63.47 cfs.

Refer to Appendix D for previous design information, Appendix E for existing/permitted condition drainage map exhibits and Appendix F for summary of existing/permitted condition basin parameters, recreated existing/permitted condition flood routing model and summary of existing/permitted pond design parameters.

			Station	Offset	Side	Near	Ground	CU\A/T	Poro	Estimated		Data
Boring No.	Northing	Easting	(Chair	n:I4EBSELBFR)	Near SMF?	Ground EL.	SHWT Depth	Bore Depth	Estimated SHGWT	Note	Data Source
SH-28	1224051 41	558313.32	2449+05.14	101.06	Rt.	Ves	54.40	4.00	6.00	50.40	Located at Pond.	1 - 42174C 1 (Interstal, 2020)
RA-198	1334851.41 1335052.36	558560.09	2451+88.64	-43.52	Med.	Yes Yes	66.14	6.50	15.00	59.64	Located at Polid.	1 = 431746-1 (Intertek 2020) 2 = FL HSR (Nodarse 2010)
SH-29	1335345.51	559250.27	2459+24.09	-186.06	Lt.	No	81.30	2.00	5.00	79.30	Located between Mainline & Ramp.	1 = 431746-1 (Intertek 2020)
RA-204	1335313.07	559732.08	2463+88.64	-56.74	Med.	No	88.66	0.50	15.00	88.16	Eccuted Serveen Hammire & Hamp.	2 = FL HSR (Nodarse 2010)
RA-209	1335498.75	560714.25	2473+87.55	-48.86	Med.	Yes	89.07	5.00	15.00	84.07		2 = FL HSR (Nodarse 2010)
SH-30	1335385.45	560772.08	2474+23.07	73.29	Rt.	Yes	87.80	GNE/ND	6.00	81.80	GNE. Assumed Estimated SHGWT at Bore Depth.	1 = 431746-1 (Intertek 2020)
RA-214	1335708.99	561693.50	2483+88.48	-75.17	Med.	Yes	85.63	8.50	15.00	77.13		2 = FL HSR (Nodarse 2010)
SH-31	1335841.76	561831.79	2485+49.93	-179.92	Lt.	No	83.20	2.50	5.00	80.70	Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
RA-219	1335909.76	562672.64	2493+89.83	-77.24	Med.	Yes	82.96	12.00	15.00	70.96		2 = FL HSR (Nodarse 2010)
SH-32	1335843.25	563052.53	2497+47.88	66.06	Rt.	Yes	84.20	GNE/ND	6.00	78.20	GNE. Assume SHWT Depth at Bore Depth.	1 = 431746-1 (Intertek 2020)
RA-224	1336128.36	563648.68	2503+94.21	-73.57	Med.	Yes	82.90	5.00	15.00	77.90		2 = FL HSR (Nodarse 2010)
SH-33	1336428.58	564248.13	2510+62.15	-189.95	Lt.	No	82.50	GNE/ND	6.00	76.50	GNE. Assume SHWT Depth at Bore Depth. Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
RA-229	1336409.54	564607.39	2513+98.98	-54.43	Med.	No	86.93	12.50	15.00	74.43		2 = FL HSR (Nodarse 2010)
SH-34	1336677.75	565492.51	2523+20.76	36.92	Rt.	No	92.10	GNE/ND	6.00	86.10	GNE. Assume SHWT Depth at Bore Depth.	1 = 431746-1 (Intertek 2020)
RA-234	1336794.32	565531.02	2524+04.43	-52.93	Med.	No	90.73	7.50	15.00	83.23		2 = FL HSR (Nodarse 2010)
RA-240	1337252.02	566553.24	2535+23.81	-50.67	Med.	No	78.09	9.50	15.00	68.59	CNE Assures CUMT Double at Days Double Located at Assure Committee and C	2 = FL HSR (Nodarse 2010)
SH-35	1337472.60	566697.29	2537+45.02	-193.74	Lt.	No	71.80	GNE/ND	5.00	66.80	GNE. Assume SHWT Depth at Bore Depth. Located at/near Concrete Lined Ditch Bottom.	1 = 431746-1 (Intertek 2020)
RA-244 SH-36	1337604.15 1337777.17	567359.61 568079.59	2544+03.52 2551+32.89	-45.57 83.10	Med. Rt.	No No	61.71 53.60	5.00 3.00	15.00 6.00	56.71 50.60	Located at/near Ditch Bottom.	2 = FL HSR (Nodarse 2010) 1 = 431746-1 (Intertek 2020)
RA-249	1337777.17	568275.78	2551+32.89	-48.96	Med.	No	53.00	2.00	15.00	51.07	Located at/near Ditch Bottom.	2 = FL HSR (Nodarse 2010)
SH-37	1338436.67	568785.13	2560+41.13	-245.55	Lt.	No	42.30	3.00	6.00	39.30	Located at Ramp.	1 = 431746-1 (Intertek 2020)
RA-254	1338435.85	569187.49	2564+02.38	-68.97	Med.	Yes	47.18	6.00	15.00	41.18	Located at Namp.	2 = FL HSR (Nodarse 2010)
RA-259	1338834.04	570095.96	2574+04.07	-99.21	Med.	Yes	49.89	7.50	15.00	42.39		2 = FL HSR (Nodarse 2010)
SH-38	1338804.75	570480.60	2577+43.42	84.45	Rt.	No	46.00	0.50	4.00	45.50	Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
SH-39	1339262.54	570784.95	2582+08.24	-209.06	Lt.	No	48.60	4.00	5.00	44.60	Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
RA-264	1339230.30	571014.15	2584+04.27	-85.99	Med.	No	49.75	5.00	15.00	44.75		2 = FL HSR (Nodarse 2010)
SH-40	1339342.20	571608.70	2589+92.65	54.76	Rt.	No	45.40	0.50	4.00	44.90	Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
RA-269	1339631.07	571930.22	2594+04.13	-77.56	Med.	Yes	47.11	4.00	10.00	43.11		2 = FL HSR (Nodarse 2010)
SH-41	1339829.90	572014.52	2595+62.30	-224.60	Lt.	No	45.60	2.00	5.00	43.60		1 = 431746-1 (Intertek 2020)
RA-274	1340028.97	572847.65	2604+01.91	-70.56	Med.	Yes	47.79	0.00	10.00	47.79		2 = FL HSR (Nodarse 2010)
SH-42	1339951.64	573009.99	2605+23.50	61.89	Rt.	Yes	44.40	2.00	5.00	42.40	Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
SH-43	1340419.34	573649.70	2612+78.25	-167.85	Lt.	No	47.70	3.00	5.00	44.70		1 = 431746-1 (Intertek 2020)
RA-279	1340369.29	573788.09	2613+94.90	-79.78	Med.	No	47.29	0.00	10.00	4 7.29		2 = FL HSR (Nodarse 2010)
SH-44	1340359.07	574261.32	2618+47.88	56.12	Rt.	No	44.00	1.00	5.00	43.00	Located at/near Concrete Lined Ditch Bottom.	1 = 431746-1 (Intertek 2020)
RA-284	1340611.15	574758.68	2623+89.80	-76.77	Med.	Yes	49.49	0.50	10.00	48.99		2 = FL HSR (Nodarse 2010)
SH-45	1340805.88	575177.60	2628+40.88	-176.49	Lt.	No	48.40	ABG/ND	5.00	48.40	ABG. Assumed Estimated SHGWT at Ground. Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
RA-289	1340815.30	575737.65	2633+89.76	-64.79	Med.	No	54.40	1.00	15.00	53.40	Leasted at /acay Ditab Datton	2 = FL HSR (Nodarse 2010)
SH-46 SH-47	1340701.34 1341304.31	575887.75	2635+11.72 2646+90.28	78.88 -278.12	Rt.	No No	53.50	1.00 4.00	3.00 5.00	52.50 52.70	Located at/near Ditch Bottom. Located between Mainline & Ramp.	1 = 431746-1 (Intertek 2020) 1 = 431746-1 (Intertek 2020)
SH-47 SH-48	1341304.31	576961.47 577596.10	2652+56.02	102.84	Lt. Rt.	No	56.70 53.50	ABG/ND	3.00	53.50	ABG. Assumed Estimated SHGWT at Ground. Located at/near Shallow Ditch Bottom.	1 = 431746-1 (Intertek 2020) 1 = 431746-1 (Intertek 2020)
RA-298	1341259.07	577687.90	2653+89.82	-77.15	Med.	No	75.79	2.00	15.00	73.79	Abd. Assumed Estimated Show Fat Ground. Educated atyriear Shallow Dittil Bottom.	2 = FL HSR (Nodarse 2010)
SH-49	1341422.13	579070.74	2667+75.26	62.13	Rt.	Yes	58.20	ABG/ND	2.00	58.20	ABG. Assumed Estimated SHGWT at Ground. Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
RA-308	1341663.76	579646.63	2673+89.73	-49.50	Med.	Yes	62.01	2.50	10.00	59.51	. 35. 7.35354 Estimated 5/10/17 at Ground. Estated dynical bitter bottom.	2 = FL HSR (Nodarse 2010)
SH-50	1341919.82	580212.72	2679+97.74	-177.33	Lt.	No	59.90	2.00	5.00	57.90	Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
RA-313	1341880.76	580622.82	2683+89.74	-50.68	Med.	No	64.50	5.00	10.00	59.50		2 = FL HSR (Nodarse 2010)
RA-318	1342102.65	581597.94	2693+89.77	-56.85	Med.	No	67.94	7.50	10.00	60.44		2 = FL HSR (Nodarse 2010)
SH-51	1341994.37	581654.79	2694+21.91	61.15	Rt.	No	63.90	2.00	5.00	61.90	Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
RA-324	1342347.42	582772.77	2705+89.75	-42.27	Med.	Yes	68.17	5.00	15.00	63.17		2 = FL HSR (Nodarse 2010)
SH-52	1342491.51	582753.33	2706+01.86	-187.15	Lt.	Yes	65.20	1.00	5.00	64.20	Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
RA-328	1342514.98	583555.02	2713+89.53	-37.17	Med.	Yes	71.10	5.00	15.00	66.10		2 = FL HSR (Nodarse 2010)
SH-53	1342527.65	584072.42	2719+00.29	48.15	Rt.	No	68.70	2.00	5.00	66.70	Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
RA-333	1342690.06	584539.13	2723+85.82	-44.45	Med.	No	72.60	10.00	15.00	62.60		2 = FL HSR (Nodarse 2010)
RA-338	1342782.47	585534.49	2733+81.36	-55.50	Med.	No	74.07	3.50	15.00	70.57		2 = FL HSR (Nodarse 2010)
SH-54	1342931.79	585700.24	2735+49.71	-199.69	Lt.	No	70.00	ABG/ND	5.00	70.00	ABG. Assumed Estimated SHGWT at Ground. Located at/near Ditch Bottom.	1 = 431746-1 (Intertek 2020)
SH-55	1342623.70	586227.50	2740+71.74	113.14	Rt.	Yes	71.60	ABG/ND	5.00	71.60	ABG. Assumed Estimated SHGWT at Ground. Located at Pond.	1 = 431746-1 (Intertek 2020)
RA-343	1342798.58	586503.90	2743+49.11	-60.19	Med.	Yes	74.52	4.50	15.00	70.02		2 = FL HSR (Nodarse 2010)
RA-348	1342792.68	587534.75	2753+79.25	-57.80	Med.	No	77.00	3.00	10.00	74.00		2 = FL HSR (Nodarse 2010)
SH-56	1342944.37	587589.42	2754+32.87	-209.86	Lt.	No	73.40	0.50	5.00	72.90	Located at/near Ditch Berm.	1 = 431746-1 (Intertek 2020)
RA-353	1342816.49	588534.62	2763+79.18	-80.47	Med.	No	80.37	6.00	10.00	74.37	ADC Assumed Estimated CHONTest Council Land Land Chon Council Land Land Chon Council Land Chon Chon Council Land Chon Chon Chon Chon Chon Chon Chon Chon	2 = FL HSR (Nodarse 2010)
SH-57	1342648.93	589330.54	2771+77.59	74.55	Rt.	No	78.00	ABG/ND	3.00	78.00	ABG. Assumed Estimated SHGWT at Ground. Located at/near Ditch Bottom & Cross Drain.	1 = 431746-1 (Intertek 2020)
RA-358	1342815.26	589534.90	2773+76.80	-97.84	Med.	Yes	84.40	5.00	10.00	79.40	I .	2 = FL HSR (Nodarse 2010)

4 OF 5



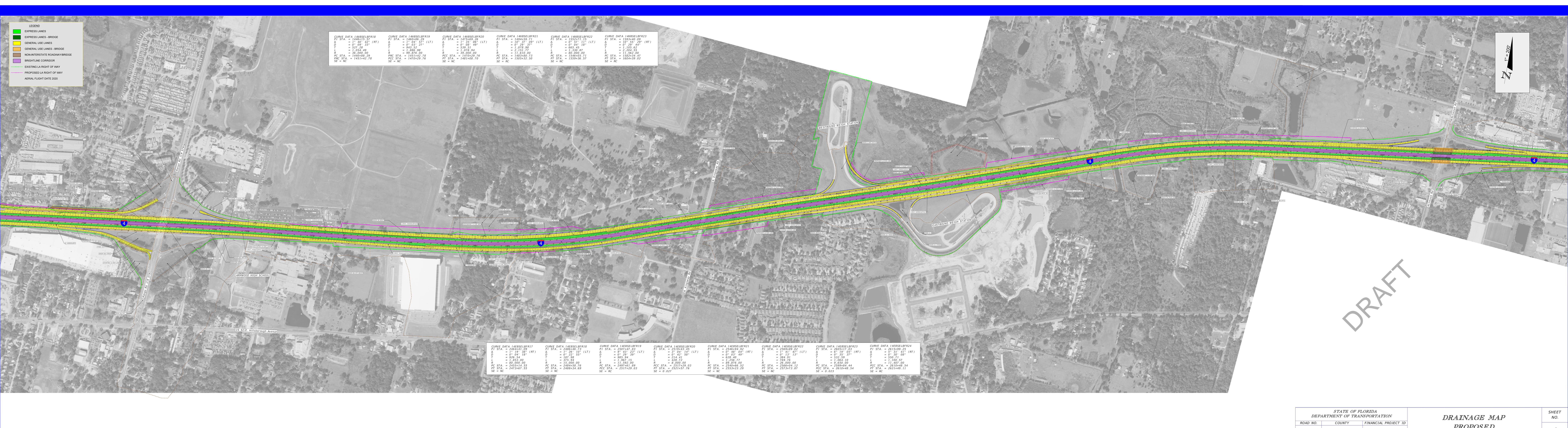


DEP_{A}	STATE OF FL ARTMENT OF TRAN	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	431746-3-52-01

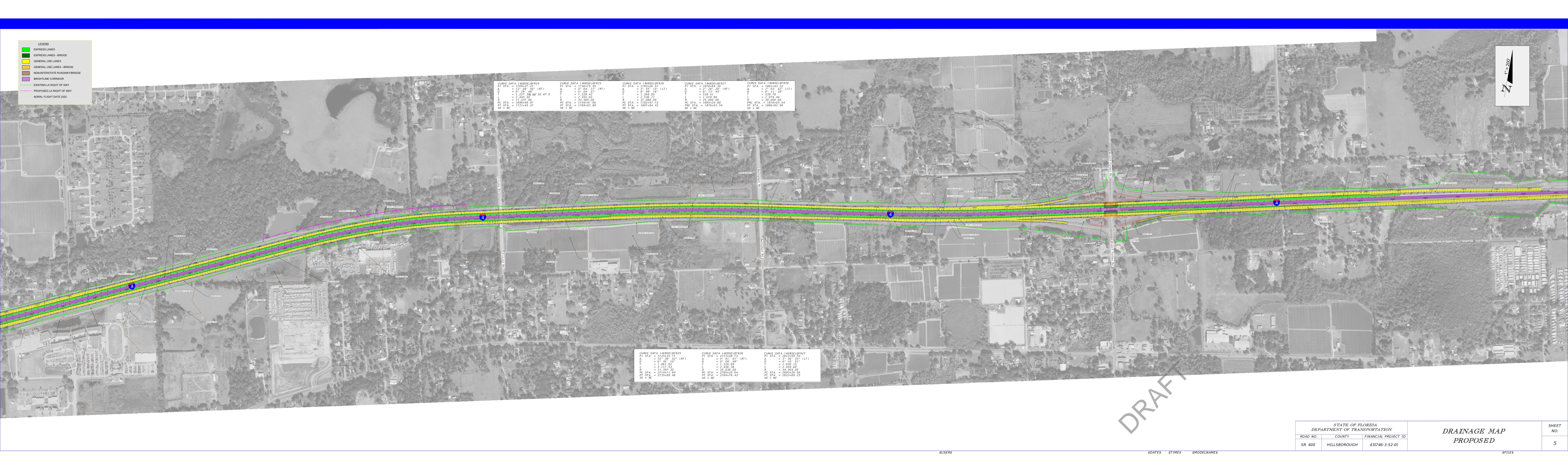
DRAINAGE MAP
EXISTING/PERMITTED

NO. 4

SHEET



\$DATE\$ \$TIME\$ \$MODELNAME\$



PROJECT CONTROLS

CONTEXT CLASSIFICATION

() C1: NATURAL () C3C: SUBURBAN COMM. () C2: RURAL () C4: URBAN GENERAL

() C5: URBAN CENTER C2T : RURAL TOWN C3R : SUBURBAN RES. () C6 : URBAN CORE

(X) N/A : L.A. FACILITY () N/A: FL GREENBOOK

FUNCTIONAL CLASSIFICATION

(X) INTERSTATE () MAJOR COLLECTOR

FREEWAY/EXPWY. () MINOR COLLECTOR

PRINCIPAL ARTERIAL () LOCAL

MINOR ARTERIAL

HIGHWAY SYSTEM

NATIONAL HIGHWAY SYSTEM

STRATEGIC INTERMODAL SYSTEM

(X) STATE HIGHWAY SYSTEM

OFF-STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

(X) 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION

RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

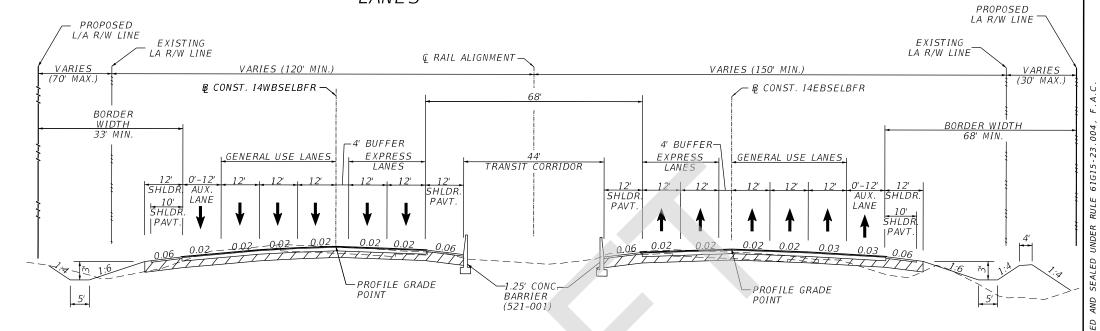
POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

BORDER WIDTH - DESIGN VARIATION NUMBER OF LANES IN ONE DIRECTION - DESIGN VARIATION

TYPICAL SECTION No. 11

I-4 WB WB EXPRESS IANES

EB EXPRESS I-4 EB LANES



TYPICAL SECTION I-4 (SR 400) WEIGH STATION INTERCHANGE TO EAST OF FRITZKE ROAD

TRAFFIC DATA (I-4 WB GU)

CURRENT YEAR = 2019 AADT = 69100ESTIMATED OPENING YEAR = 2025 AADT = 58600 ESTIMATED DESIGN YEAR = 2045 AADT = 83300 K = 09% D = 57.9% T = 11.2% (24 HOUR) DESIGN HOUR T = 5.6%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

TRAFFIC DATA (I-4 EB GU)

TARGET SPEED = 70 MPH

CURRENT YEAR = 2019 AADT = 68900ESTIMATED OPENING YEAR = 2025 AADT = 41000 ESTIMATED DESIGN YEAR = 2045 AADT = 71200 K = 09% D = 57.9% T = 11.2% (24 HOUR) DESIGN HOUR T = 5.6%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH TARGET SPEED = 70 MPH

TRAFFIC DATA (WB EL)

CURRENT YEAR = 2019 AADT = 0ESTIMATED OPENING YEAR = 2025 AADT = 31700 ESTIMATED DESIGN YEAR = 2045 AADT = 49200 K = 09% D = 57.9% T = 1.0% (24 HOUR) DESIGN HOUR T = 0.5%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH TARGET SPEED = 70 MPH

TRAFFIC DATA (EB EL)

CURRENT YEAR = 2019 AADT = 0ESTIMATED OPENING YEAR = 2025 AADT = 28000 ESTIMATED DESIGN YEAR = 2045 AADT = 36900 K = 09% D = 57.9% T = 1.0% (24 HOUR) DESIGN HOUR T = 0.5%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH TARGET SPEED = 70 MPH

NOT TO SCALE

SHEET FINANCIAL PROJECT ID 431746-3-52-01 12

8/12/2022

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CONTEXT CLASSIFICATION

() C1: NATURAL () C3C: SUBURBAN COMM. () C2: RURAL () C4: URBAN GENERAL () C5: URBAN CENTER C2T : RURAL TOWN () C6: URBAN CORE () C3R: SUBURBAN RES. (X) N/A: L.A. FACILITY () N/A : FL GREENBOOK

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(X) INTERSTATE () MAJOR COLLECTOR () MINOR COLLECTOR (X) FREEWAY/EXPWY. PRINCIPAL ARTERIAL () LOCAL

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HIGHWAY SYSTEM

NATIONAL HIGHWAY SYSTEM

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() 7 - BOTH MEDIAN TYPES

CRITERIA

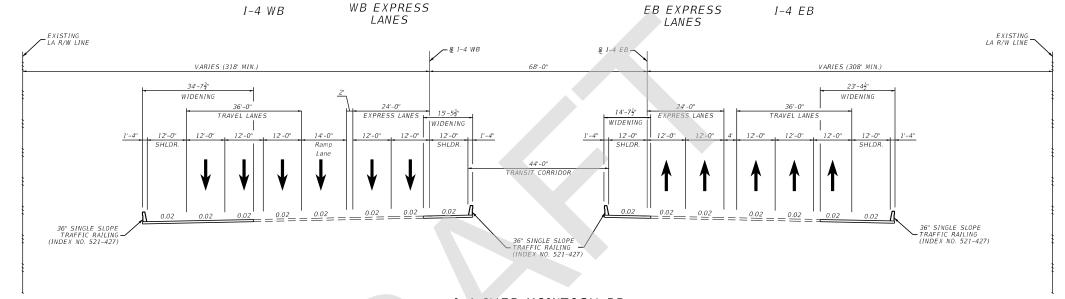
(X) NEW CONSTRUCTION / RECONSTRUCTION

(X) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

BORDER WIDTH - DESIGN VARIATION NUMBER OF LANES IN ONE DIRECTION - DESIGN VARIATION PAVEMENT CROSS SLOPE - DESIGN VARIATION



I-4 OVER MCINTOSH RD. BRIDGE NO. 100614 (WB) & 100615 (EB)

TRAFFIC DATA (I-4 WB GU)

CURRENT YEAR = 2019 AADT = 69100ESTIMATED OPENING YEAR = 2025 AADT = 58600 ESTIMATED DESIGN YEAR = 2045 AADT = 83300 K = 09% D = 57.9% T = 11.2% (24 HOUR) DESIGN HOUR T = 5.6%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPHTARGET SPEED = 70 MPH

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TRAFFIC DATA (EB EL)

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NOT TO SCALE

SHEET FINANCIAL PROJECT ID 23 431746-3-52-01

PBS POST, BUCKLEY, SCHUH & JERNIGAN, INC.

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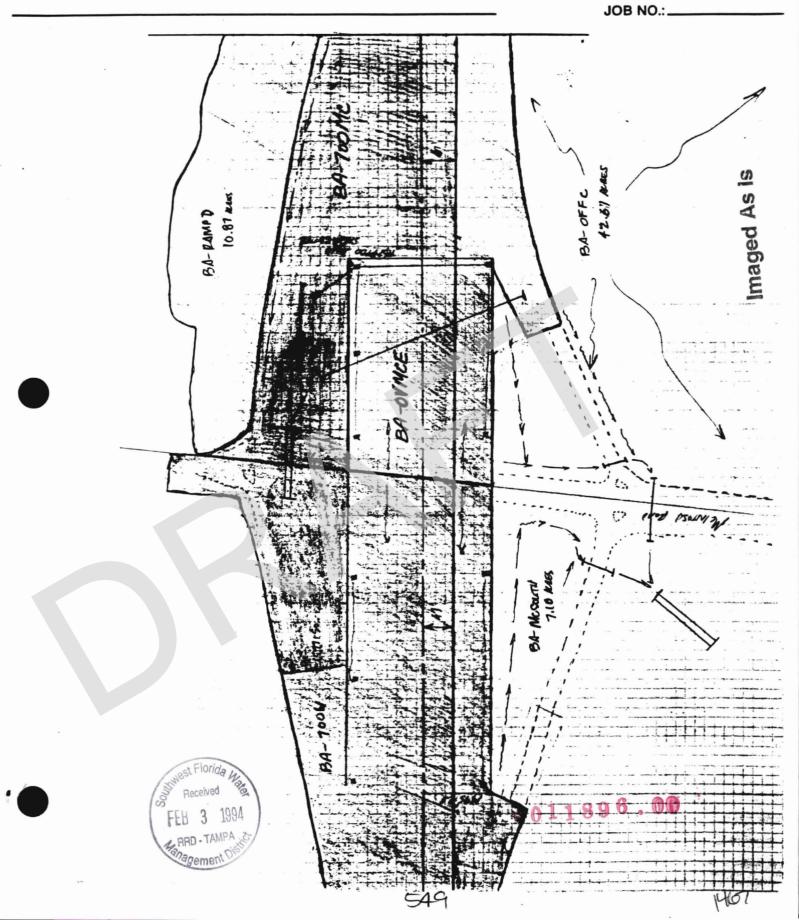
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PBS POST, BUCKLEY, SCHUH & JERNIGAN, INC.

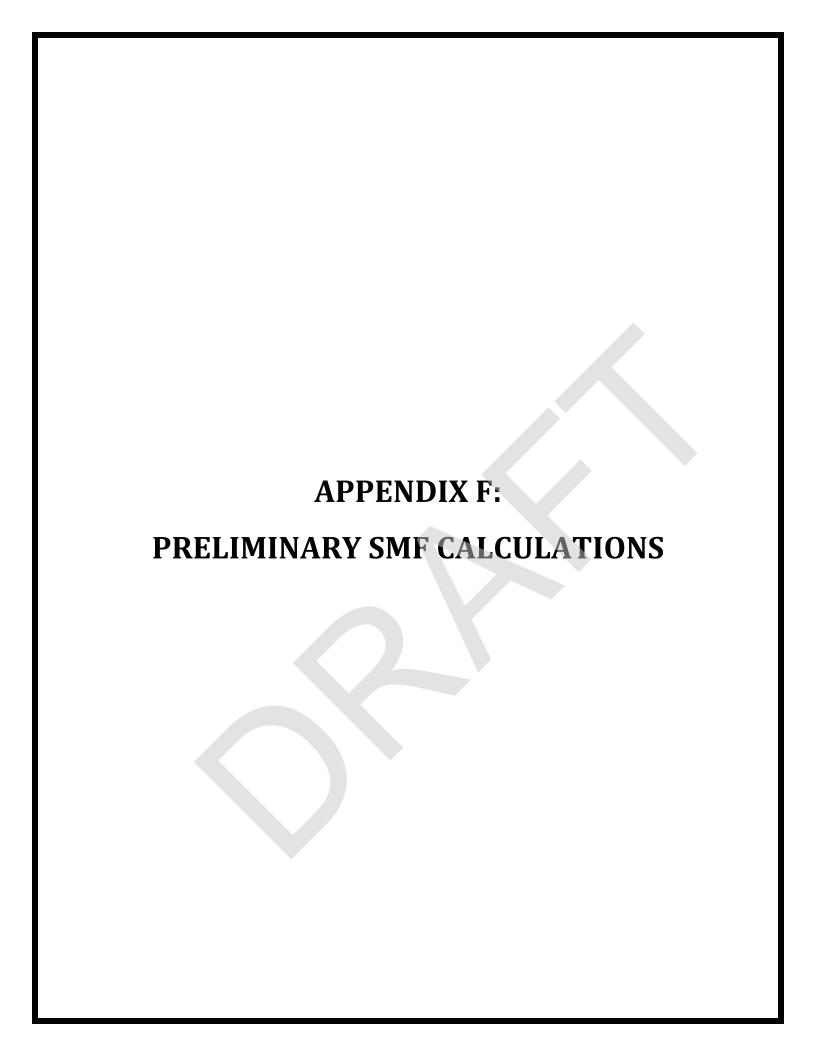
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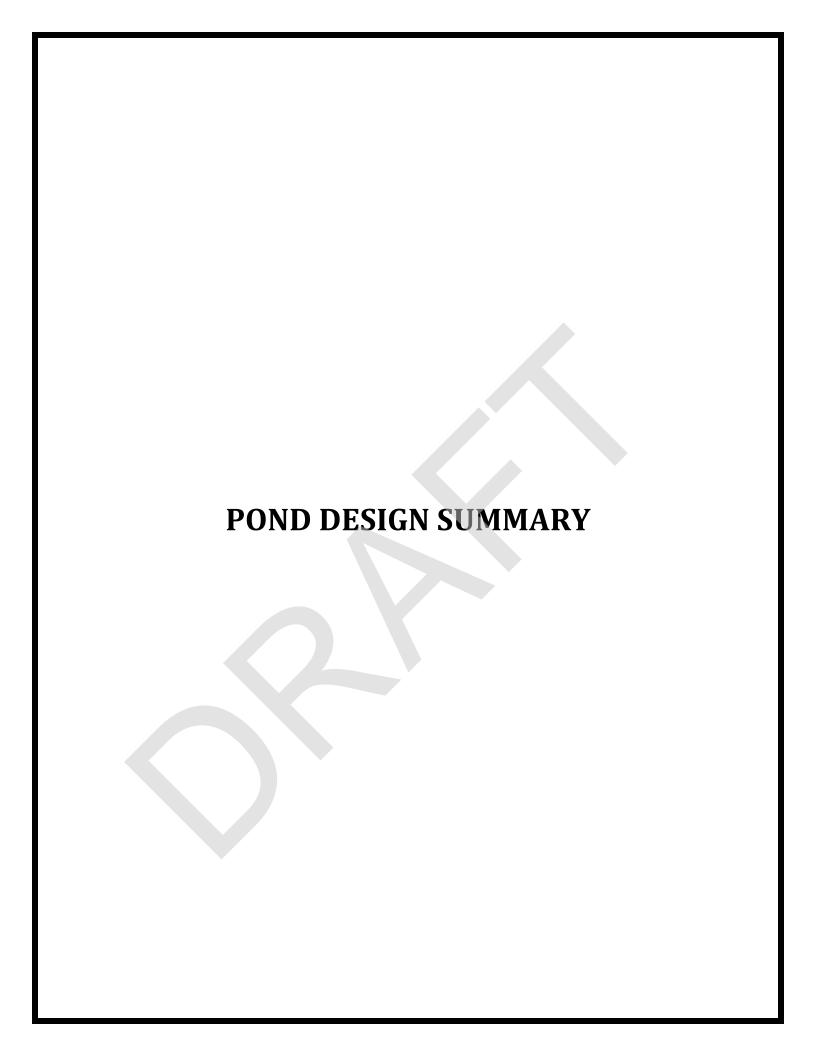
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CHK. BY: _____

DATE: _____
SHEET NO..____

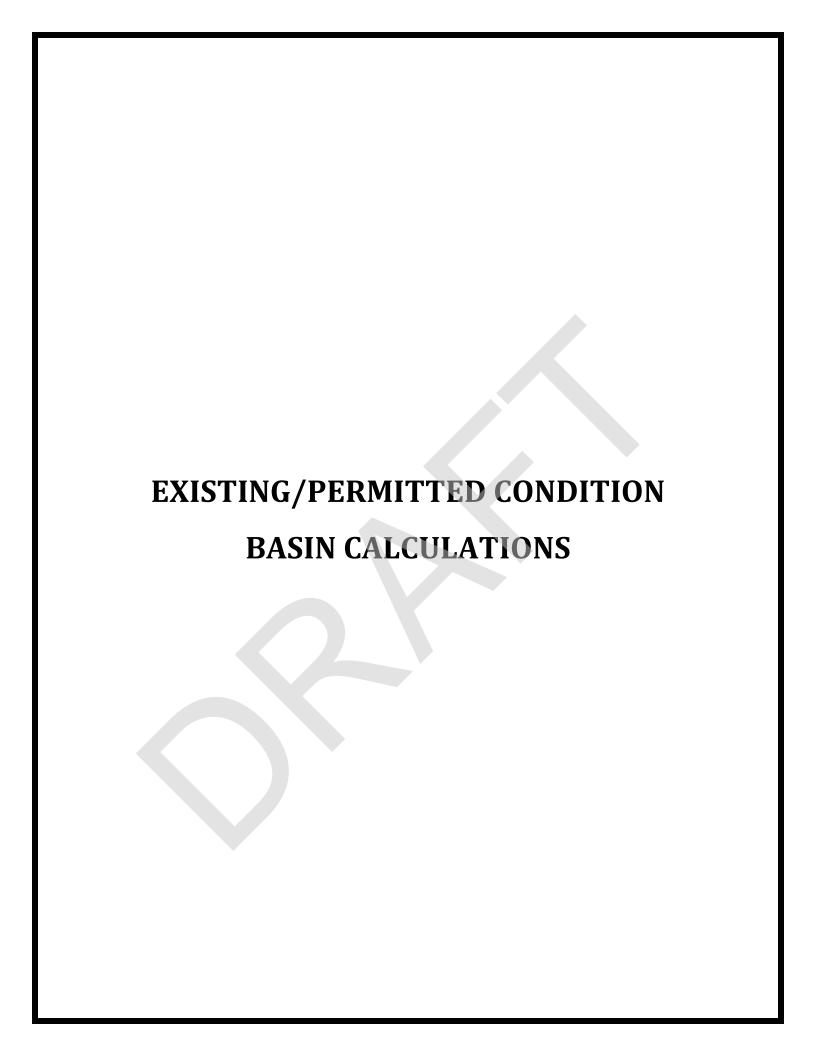


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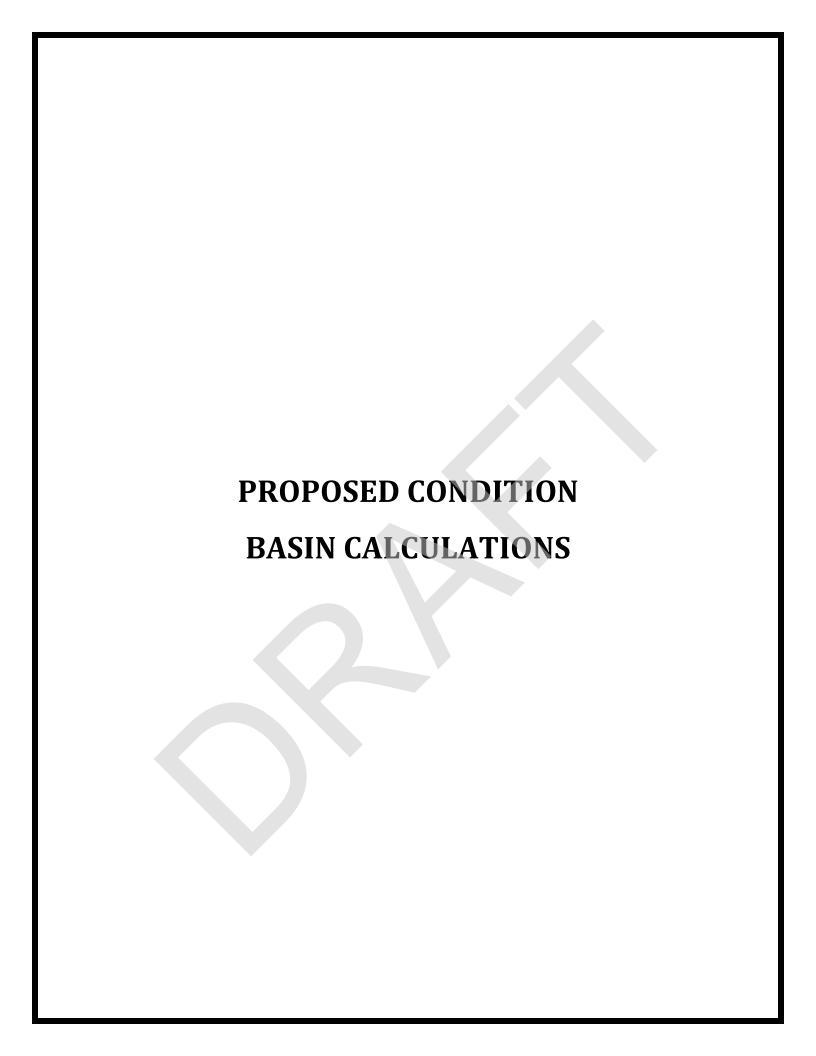




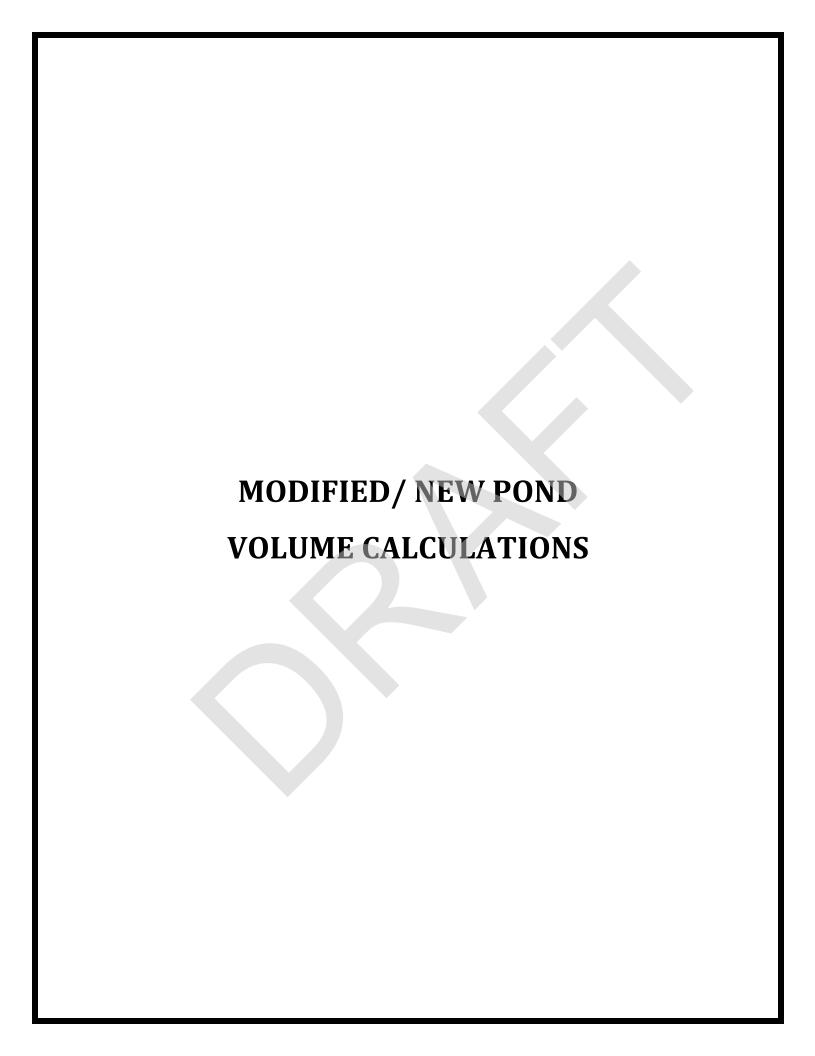
						***		WATER QUA	LITY TREATM	IENT SUMMAF			
Daniel I	Basin	Pond				rmitted					posed		Additional Design Comments
Permit	Name	Name	Treatment Area (Ac)	Impervious Area (Ac)	Req. Treat. Vol. (Ac-Ft)	Prov. Treat. Vol. (Ac-Ft)	Treatment Type	Treatment Area (Ac)	Impervious Area (Ac)	Req. Treat. Vol. (Ac-Ft)	Prov. Treat. Vol. (Ac-Ft)	Treatment Type	Additional Design Comment
		200-6	7.09	4.65	0.59	0.62	Wet Det. 1.0" over Treat. A.	7.09	4.50	0.59	0.62	Wet Det. 1.0" over Treat. A.	
	200	200-7	1.50	1.50	0.06	0.11	Dry Ret. 0.5" over Treat. A.	1.50	1.50	0.06	0.11	Dry Ret. 0.5" over Treat. A.	
20690.007		200-8	3.54	3.54	0.15	0.19	Dry Ret. 0.5" over Treat. A.	3.54	3.54	0.15	0.19	Dry Ret. 0.5" over Treat. A.	No work within basin limits. Proposed restates permitted condition.
20690.007		200-9 300-1A	1.27 10.76	1.27 10.76	0.05 0.90	0.11 1.37	Dry Ret. 0.5" over Treat. A. Wet Det. 1.0" over Treat. A.	1.27 10.76	1.27 8.65	0.05 0.90	0.11 1.37	Dry Ret. 0.5" over Treat. A. Wet Det. 1.0" over Treat. A.	No work within basin limits. Proposed restates permitted condition. Basins 300 & 400 Provide Compensatory Treatment for Basins 5 (not relevant to
	300	300-1A 300-1B	16.23	16.23	1.35	0.94	Wet Det. 1.0" over Treat. A. Wet Det. 1.0" over Treat. A.	16.23	14.64	1.35	0.94	Wet Det. 1.0" over Treat. A. Wet Det. 1.0" over Treat. A.	the current project limits), 7 (not relevant to the current project limits) and 800.
	300	300-IB	3.73	3.73	0.31	0.00	N/A	3.73	3.15	0.31	0.00	N/A	the current project limits), 7 (not relevant to the current project limits) and 800.
	***	400-1	34.67	34.67	2.89	2.96	Wet Det. 1.0" over Treat. A.	34.67	31.64	2.89	2.96	Wet Det. 1.0" over Treat. A.	
	400	400-BP	8.50	8.50	0.71	0.00	N/A	8.50	7.20	0.71	0.00	N/A	
20690.001		800-1	4.86	4.42	0.41	0.00	N/A	4.86	3.14	0.41	0.00	N/A	
	800	800-2	6.59	5.31	0.55	0.00	N/A	6.59	5.27	0.55	0.00	N/A	
		800-3	12.38	3.88	1.03	0.00	N/A	12.38	3.88	1.03	0.00	N/A	
	1	1	44.33	36.09	1.85	1.85	Wet Det. 0.5" over Treat. A.	50.41	42.16	2.10	2.16	Wet Det. 0.5" over Treat. A.	Add. treat. vol. required and provided. Treatment area includes pond.
	2 4	2	29.30 N/A	29.30 N/A	2.44 N/A	2.60 N/A	Wet Det. 1.0" over Treat. A. N/A	28.59 N/A	28.59 N/A	2.38 N/A	2.60 N/A	Wet Det. 1.0" over Treat. A. N/A	Exist. treat. vol. sufficient. By others under FPID 430337-1 / FPID 430338-1 PSR
	4	5A	N/A N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
13922.000	5	5B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
	7	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
		8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
	8	8A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
		8B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
42183.004	18	18A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	By others under FPID 430337-1 / FPID 430338-1 PSR
42183.000		Α	2.78	2.784	0.116	0.116 *	Dry Ret. 0.5" over Treat. A.	2.78	2.78	0.116	0.116	Dry Ret. 0.5" over Treat. A.	0.044 Ac-ft of compensatory treatment provided in Ponds B-1 and B-2.
	Α												Subbasins A01 through A13 (excepting A03): Permitted = adjusted untreated total
N/A		A2	N/A	N/A	N/A	N/A	N/A	13.88	13.88	1.16	1.23	Wet Det. 1.0" over Treat. A.	impervious of 8.90 ac. Proposed = total impervious of 20.43 ac with 13.88 ac treated (6.55 ac untreated). Treatment surplus of 8.90-6.55 = 2.35 ac.
													, ,
		1A		1.64	0.14	0.17	Wet Det. 1.0" over Treat. A.		1.64	0.14	0.17	Wet Det. 1.0" over Treat. A.	Pond 1B for attenuation only. Subbasins 1A, Node 3, Node 6 and Node 7:
	100	1B	11.26	0.00	0.00	0.00	N/A	8.15	0.00	0.00	0.00	N/A	Permitted = total impervious of 17.24 ac with 11.26 ac treated (5.98 ac untreated). Proposed = total impervious of 15.39 ac with 8.15 ac treated (7.24 ac
		1C		9.62	0.80	0.93	Wet Det. 1.0" over Treat. A.	1	6.51	0.54	0.93	Wet Det. 1.0" over Treat. A.	untreated). Proposed = total impervious of 15.39 ac with 8.15 ac treated (7.24 ac untreated). Treatment deficit of 7.24 - 5.98 = 1.26 ac.
	200	2	28.37	28.37	2.36	2.36	Wet Det. 1.0" over Treat. A.	40.28	40.28	3.36	3.66	Wet Det. 1.0" over Treat. A.	Ponds 3A, 3B, 3C, 3D and 3E are equalized and outfall to Pond 2. Assume includes
11896.000	200	3A	20.37	20.37	2.30	2.30	Dry Ret. 1.0" over Treat. A. (not	40.28	40.28	3.30	3.00	Dry Ret. 1.0" over Treat. A.	5.17 ac of impervious area along CR 579.
		3B					explained in design		,				
	300	3C	18.60	18.60	1.55	4.04	documentation why 1.0" rather	21.15	21.15	1.76	2.28		
		3D					than 0.5")						
		3E											
	400	4	31.74	31.74	2.65	24.12	Dry Ret. 1.0" over Treat. A.	36.74	36.74	3.06	45.86 *	Dry Ret. 1.0" over Treat. A.	Closed basin pond with no discharge. * Retention vol. at El. 80.0
11899.007	500	5 S-1	55.34 18.85	18.94	4.61 1.57	4.67 1.78	Wet Det. 1.0" over Treat. A. Wet Det. 1.0" over Treat. A.	28.78	28.78	2.40	4.81	Wet Det. 1.0" over Treat. A. Wet Det. 1.0" over Treat. A.	
		5-1 6A	8.39	10.53 8.39	0.70	0.78	Wet Det. 1.0" over Treat. A. Wet Det. 1.0" over Treat. A.	10.73 11.79	10.73 11.79	0.89	1.69 1.03	Wet Det. 1.0" over Treat. A. Wet Det. 1.0" over Treat. A.	Add. treat. vol. required and provided.
11896.000	600	6B	11.96	11.96	1.00	1.09	Wet Det. 1.0" over Treat. A.	14.81	14.81	1.23	1.35	Wet Det. 1.0" over Treat. A.	Add. treat. vol. required and provided. Add. treat. vol. required and provided.
11030.000	700	7	35.48	36.87	2.96	3.31	Wet Det. 1.0" over Treat. A.	41.54	41.54	3.46	3,74	Wet Det. 1.0" over Treat. A.	Add, treat, vol. required and provided.
,	900	o	20.11	22.17	1.00	1.52			24.00		1.01		Add. treat. vol. required and provided. 3.06 ac perm. and 3.39 ac prop.
	800	8	20.11	23.17	1.68	1.53	Wet Det. 1.0" over Treat. A.	20.69	24.08	2.01	1.91	Wet Det. 1.0" over Treat. A.	impervious handled via comp. treat. of 3.7 ac in Basins 900 and 1000.
11896.001	900	9	17.11	17.11	1.43	1.50	Wet Det. 1.0" over Treat. A.	17.86	17.86	1.49	1.50	Wet Det. 1.0" over Treat. A.	Exist. treat. vol. sufficient.
	1000	10	15.84	15.84	1.32	1.44	Wet Det. 1.0" over Treat. A.	16.57	16.57	1.38	1.44	Wet Det. 1.0" over Treat. A.	Exist. treat. vol. sufficient.
	1100	11	14.05 *	16.06	1.20	1.20	Wet Det. 1.0" over Treat. A.	16.05	16.05	1.34	1.36	Wet Det. 1.0" over Treat. A.	* Typo in treatment calculations. Treatment area should be 16.06 ac.
N/A	1100	BABFN2 BABFS2	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	3.02 2.95	3.02 2.95	0.13 0.12	0.15 0.17	Dry Ret. 0.5" over Treat. A. Dry Ret. 0.5" over Treat. A.	
	1	1 1	16.38	7.95	1.37	1.62	N/A Wet Det. 1.0" over Treat. A.	11.22	11.22	0.12	1.62	Wet Det. 1.0" over Treat. A.	Exist. treat. vol. sufficient.
11896.002	100	1A	6.39	4.00	0.27	0.28	Dry Ret. 0.5" over Treat. A.	2.75	2.75	0.94	0.23	Dry Ret. 0.5" over Treat. A.	Exist. (Feat. VOI. Sufficient.
N/A	100	1D	N/A	N/A	N/A	N/A	N/A	2.10	2.10	0.23	0.18	Dry Ret. 0.5" over Treat. A.	
11896.002	200	2A	26.15	12.60	4.65	4.87	Wet Det. 1.0" over Treat. A.	28.19	28.19	2.35	4.87	Wet Det. 1.0" over Treat. A.	Ponds equalized. Outfall @ Pond 2B. Exist. treat. vol. sufficient
11896.002	200	2B	29.63	17.07	4.03	4.87	wet bet. 10 over freat. A.	28.19	28.19	2.55	4.07	wet bet. 1.0 Over Heat. A.	



						Existi	ng/P	ermitted (Cond	ition Basi	n Cal	culation <u>s</u>									
	Basin			B						Other		Other		Other	•	Othei	Ī		-	G	B
Permit	Name (Permit)	Pond	Sub-Basin	Roadway Impervious	CN	Offsite	CN	Pond	CN	Area	CN	Area	CN	Area	CN	Area	CN	Total Area*CN	Total Area	Composite CN	Permitted CN
			BA RAMP A	0.69	98			0.86	100	1.66	49							234.96	3.21	73.20	73.00
		3A	BA RAMP D	0.73	98					1.68	49							153.86	2.41	63.84	64.00
			BA FDA 1							1.16	82							95.12	1.16		82.00
		3B	BA 579N	7.58	98			0.67	100	3.47	49							979.87	11.72	83.61	84.00
	300		BA FDA 2	2.22	00			0.07	100	0.75	93							69.75	0.75		93.00
	-	3C 3D	BA 579S BA RAMP B	3.32 0.70				0.87	100	3.54 1.77	49 49							585.82 282.33	7.73 3.74		76.00 81.00
11896.000	-		BA RAMP C	0.70					100	1.61	49							248.07	3.74		75.00
		3E	BA OFF 1	0.41	70			1.27	100	55.2	64							3532.8	55.20		64.00
			BA POND 4							6.19	49							303.31	6.19		49.00
			BA OFF 2	1.98	98					11.94	49	12.74	89	15.69	61			2870.05	42.35	67.77	68.00
	400	4	BA WEST	10.26	98					1.19	49							1063.79	11.45	92.91	93.00
			BA OFF WEST							4.19	49	8.84	98					1071.63	13.03		82.00
			BA EAST	10.66						2.21	49							1152.97	12.87	89.59	90.00
			NORTH DITCH	2.87						2.44	30							354.46	5.31		67.00
			GHOST BASIN MEDIAN DITCH	6.49 2.58						0.83 7.69		2.18	71					694.95 638.32	7.32 12.45	94.94 51.27	95.00 51.00
		5	POND 5	1.53				3	100	2.24		2.10	-/-					608.98	6.77	89.95	90.00
		J	WIM DITCH	4.97					100	1.93		1.94	71					682.7	8.84	77.23	77.00
11899.007	5 (500)		OFFSITE POND							17.52								525.6	17.52	30.00	30.00
			WIM DITCH OFF	0.50	98					8.78		2.50	78					507.4	11.78		43.00
			S-1 WEST	6.34	98					22.16	30	0.2	71					1300.32	28.70	45.31	45.00
		S-1	S-1 EAST	3.64						7.77	30							589.82	11.41		52.00
			POND S-1	0.55				1.28	100	0.98	30							211.3	2.81	75.20	75.00
		6A	BA WEST	8.39	98					1.55	$\overline{}$	1.47	79	1.43	57	2.98	84	1346.13	15.82	85.09	85.00
			BA POND 6A	11.06	-00			1.17	100	1.44	84							237.96	2.61		91.00
	600		BA EAST BA POND 6B	11.96	98		4	3.84	100	2.77 1.73	84 84							1404.76 529.32	14.73 5.57	95.37 95.03	95.00 95.00
		6B	BA OFF 1						100		84	4.15	86					604.42	7.07	85.49	85.50
			BA OFF 2					0.11	100	7.84	86	7.10	-00					674.24	7.84	86.00	86.00
			BA 700W	9.36	98					2.5	84							1127.28	11.86		95.00
			BA MCEAST	8.40	98					0.75	49	0.75	84	1.12	79			1011.43	11.02	91.78	92.00
			BA 700MC	4.36						7.65	84							1069.88	12.01		89.00
11896.000			BA 700SE	4.85	98					0.68	49	2.43		1.02	79			793.32	8.98		88.00
			BA RAMPD							6.09	91	4.78	82					946.15	10.87	87.04	87.00
		7	BA OVMCE	4.61	_					1.62	0.4							451.78	4.61		98.00
	700		BA 700SW BA OFF 3	3.90	98		_			1.62 1.45	84 88							518.28 127.6	5.52 1.45	93.89 88.00	94.00 88.00
			BA OFF 4							1.51	82							123.82	1.51		82.00
			BA OFF 1							2.31	72							166.32	2.31		72.00
			BA OFF 2							26.18								2225.3	26.18		
			BA POND 7					5	100	6.59	89							1086.51	11.59	93.75	94.00
			BA MCSOUTH	1.39	98						84							615.86	7.10		
			BA OFF C							28.49	88	14.12	86					3721.44	42.61	87.34	87.00



						Prop	osed	Condition E	Basin_	Calculation	ns									
	Basin									Other		Other		Other		Other	•			
Permit	Name (Permit)	Pond	Sub-Basin	Roadway Impervious	CN	Offsite	CN	Pond	CN	Area	CN	Area	CN	Area	CN	Area	CN	Total Area*CN	Total Area	Composite CN
			BA RAMP A	1.06	98			0.86	100	1.86								281.02	3.78	74.34
		3A	BA RAMP D	0.79	98					2.5								199.92	3.29	60.77
			BA FDA 1							1.16								95.12	1.16	82.00
			BA 579N1	1.19	98			0.67	100	0.93								229.19	2.79	82.15
		3B	BA FDA 2	2.22						0.75								69.75	0.75	93.00
	300		BA 579N2	3.93				0.07	100	2.34								499.8	6.27	79.71
		3C	BA 579S1 BA 300 BL	0.94 2.48	98 98			0.87	100	1.74	49	_						264.38 243.04	3.55 2.48	74.47 98.00
		30	BA 579S2	2.46	98					2.80	49							396.9	5.45	72.83
11896.000		3D	BA RAMP B	0.96	98			127	100	1.70								304.38	3.93	77.45
11070.000	-		BA RAMP C	1.98					100	2.48								444.56	5.75	77.31
		3E	BA OFF 1							55.2								3532.8	55.20	64.00
			BA POND 4					3.57	100	4.50	_							577.5	8.07	71.56
			BA OFF 2							10.56		12.74	89	15.69	61	0.00	98	2608.39	38.99	66.90
			BA WEST	13.40	98					0.27	49							1326.43	13.67	97.03
	400	4	BA WEST BL	2.69	98													263.62	2.69	98.00
			OFF WEST							4.19		7.05	98					896.21	11.24	79.73
			BA EAST	11.40						1.55	49							1193.15	12.95	92.14
			BA EAST BL	2.20														215.6	2.20	
			NORTH DITCH	5.42	98					1.40								573.16	6.82	84.04
			GHOST BASIN	4.80						0.55		•						509.45	5.35	95.22
			MEDIAN DITCH	6.07	98			4.72	100	0.00		0	71					594.86	6.07	98.00
		5	POND 5 WIM DITCH	0.94	98			4.72	100	2.16		2 12	71					717.48	7.82	91.75 77.75
11899.007	5 (500)		500BL	5.62 5.43	98 98					1.94	30	3.13	/ 1					831.19 532.14	10.69 5.43	98.00
11099.007	3 (300)		OFFSITE POND	5.45	90					17.52	30							525.6	17.52	30.00
			WIM DITCH OFF	0.50	98					8.78		2.50	78					507.4	11.78	43.07
	-		S-1 WEST	7.80						20.96		0.2	71					1407.4	28.96	48.60
		Pond S-1	S-1 EAST	2.83	98					6.26	-	V						465.14	9.09	51.17
			POND S-1	0.10	98			1.28	100	0.72	_							159.4	2.10	75.90
			BA WEST	10.04	98					0	49	0	79	0	57	2.47	84	1191.4	12.51	95.24
		6A	BA WEST BL	1.75	98													171.5	1.75	98.00
			BA POND 6A					1.17	100	1.44	84							237.96	2.61	
	600		BA EAST	12.31	98					2.31	84							1400.42	14.62	95.79
			BA EAST BL	2.50	98													245	2.50	98.00
		6B	BA POND 6B					3.84		1.73								529.32	5.57	95.03
			BA OFF 1					0.14	100	2.78		4.15	86					604.42	7.07	85.49
			BA OFF 2	7.00	00					7.84								674.24	7.84	86.00
			BA 700W BA MCEAST	7.80						4.05		165	0.4	112	70			1104.6 872.41	11.85 9.73	93.22 89.66
				6.21	98					0.75		1.65	84	1.12	79					
11896.000			BA 700MC BA 700SE	3.80	98					0.00	84	2.43	84	0.13	79			801.08 586.79	8.59 6.36	93.26 92.26
11070.000			BA RAMPD	3.00	70					6.09		4.78		0.13	17			946.15	10.87	87.04
			BA OVMCE	4.12	98					0.07	<i></i>	7.10	02					403.76	4.12	98.00
		_	BA 700SW		98					1.21	84							627.9	6.58	95.43
	700	7	BA 700BL	5 .95														583.1	5.95	98.00
			BA OFF 3								88							127.6	1.45	88.00
			BA OFF 4							1.51	82							123.82	1.51	82.00
			BA OFF 1								72							166.32	2.31	72.00
			BA OFF 2							26.18								2225.3	26.18	
			BA POND 7					5	100	6.59								1086.51	11.59	
			BA MCSOUTH	2.61	98					4.33								619.5	6.94	89.27
			BA OFF C							28.49	88	14.12	86					3721.44	42.61	87.34



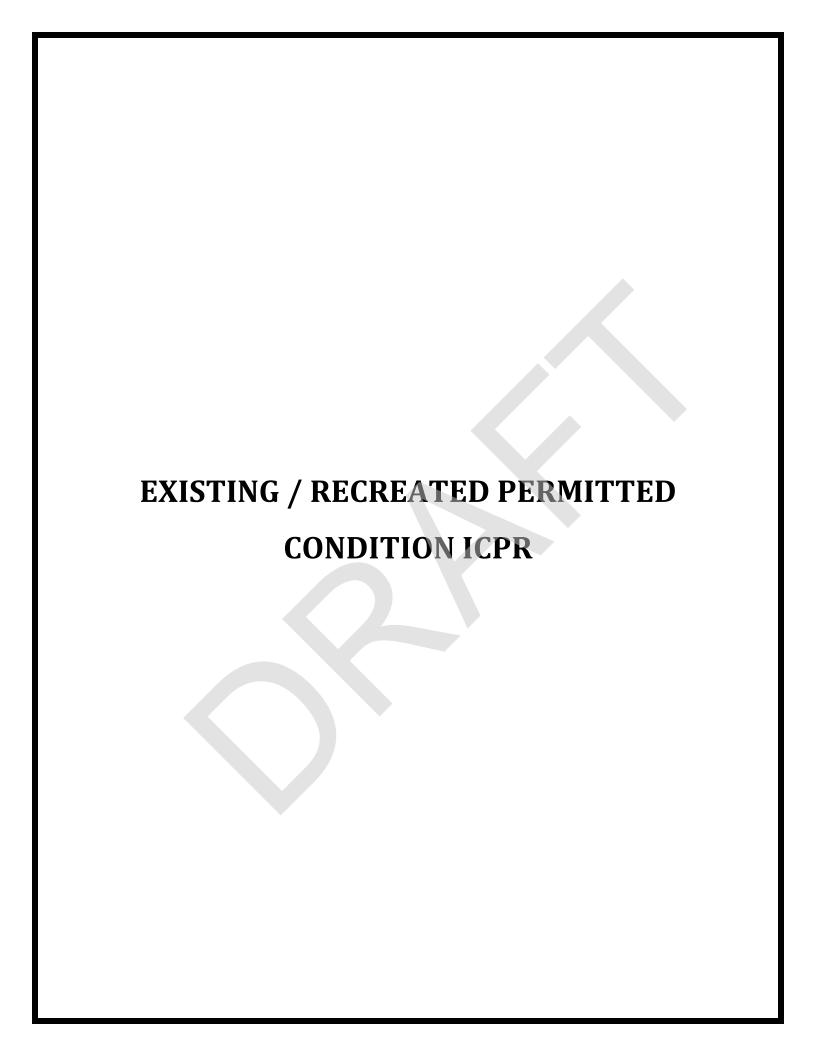
Pond 7 [11896.000] - Pond Volume - Existing (NGVD 29)

Total	Volume	(acre ft.)	26.48	12.99	3.11	1.86	
lncr.	Volume	(acre ft.)	13.49	9.87	1.25	1.86	
Surface	Area	(acres)	70.7	6.63	6.28	6.24	6.17
	Elev.	(feet)	51.00	49.03	47.50	47.30	47.00
			Top of Berm = >	< = MHQ	Treatment / Weir = >	< = DLW = >	Pond Bottom / SHW = >

Note: The previous permit number is 11896.000.

Pond 7 [11896.000] - Pond Volume - Proposed (NGVD 29)

		Surface	lncr.	Total
	Elev.	Area	Volume	Volume
	(feet)	(acres)	(acre ft.)	(acre ft.)
Top of Berm = >	51.00	7.07	96.9	26.48
1-Foot Freeboard = >	20.00	6.85	15.78	19.52
Treatment / Weir = >	47.60	6.31	00'0	3.74
<= MTG	47.60	6.31	3.74	3.74
Pond Bottom / SHW = >	47.00	6.17		
Note: The previous permit number is 11896.000	nber is 1189	.000.9		



Simple Basin: BA700MC

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 38.0400 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 12.0100 ac

Curve Number: 89.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BA700SF

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number

Time of Concentration: 71.5800 min

Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 8.9800 ac
Curve Number: 88.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BA700SW

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 23.2200 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256

Peaking Factor: 256.0

Area: 5.5200 ac

Curve Number: 94.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BA700W

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 34,8000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 11.8600 ac

Curve Number: 95.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BAMCEAST

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 106.2000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 11.0200 ac

Curve Number: 92.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BAMCSOUTH

Scenario: Permitted Condition

Node: OUTFALL

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 141.7200 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 7.1000 ac

Curve Number: 87.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAOFF

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 131.4600 min
Max Allowable O: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 2.3100 ac

Curve Number: 72.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BAOFF2

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 138.7200 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 26.1800 ac

Curve Number: 85.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAOFF3

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 102.1800 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 1.4500 ac
Curve Number: 88.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BAOFF4

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 69.1200 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256

Peaking Factor: 256.0 Area: 1.5100 ac

Curve Number: 82.0 % Impervious: 0.00

% DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BAOFFC

Scenario: Permitted Condition

Node: OUTFALL

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 245.5200 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 42.6100 ac

Curve Number: 87.0
% Impervious: 0.00
% DCIA: 0.00

% Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BAOVMCE

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 26.7000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 4.6100 ac

Curve Number: 98.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BAPOND7

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 30.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 11.5900 ac

Curve Number: 94.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BARAMPD

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 94.7400 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 10.8700 ac

Curve Number: 87.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Node: OUTFALL

Scenario: Permitted Condition
Type: Time/Stage
Base Flow: 24.57 cfs
Initial Stage: 44.50 ft
Warning Stage: 0.00 ft

Boundary Stage:

Year	Month	Day	Hour	Stage [ft]	
0	0	0	1.0000		44.50
0	0	0	2.0000		44.50
0	0	0	3.0000		44.60
0	0	0	4.0000		44.60
0	0	0	5.0000		44.70
0	0	0	6.0000		44.80
0	0	0	7.0000		44.90
0	0	0	8.0000		45.00
0	0	0	16.0000		45.80
0	0	0	24.0000		45.30

Comment:

Node: POND7

Scenario: Permitted Condition
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 47.30 ft
Warning Stage: 0.00 ft

Stage [ft]		Area [ac]	Area [ft2]
	47.00	6.1700	268765
	51.00	7.0700	307969

Comment:

Drop Structure Link: POND7-OUTFALL		Upstream Pipe		Downstr	Downstream Pipe	
Scenario:	Permitted	Invert:	42.00 ft	Invert:	41.00 ft	
	Condition	Manning's N:	0.0120	Manning's N:	0.0120	
From Node:	POND7	Geometry	r: Circular	Geometr	y: Circular	
To Node:	OUTFALL	Max Depth:	4.00 ft	Max Depth:	4.00 ft	
Link Count:	1			Bottom Clip		
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft	
Solution:	Combine	Op Table:		Op Table:		
Increments:	0	Ref Node:		Ref Node:		
Pipe Count:	1	Manning's N:	0.0000	Manning's N:	0.0000	

Damping: 0.0000 ft

Length: 90.00 ft

Top Clip Default: 0.00 ft

Default: 0.00 ft

FHWA Code:

Op Table:

Op Table:

Entr Loss Coef: 0.20

Ref Node: Manning's N: 0.0000 Ref Node:

Manning's N: 0.0000

Exit Loss Coef: 0.20 Bend Loss Coef: 0.00

Bend Location: 0.00 dec

Energy Switch: Energy

Pipe Comment:

Weir Component

Weir: Weir Count: 1

Weir Flow Direction: Both

Damping: 0.0000 ft

Weir Type: Horizontal

Geometry Type: Rectangular

Invert: 47.50 ft

Control Elevation: 47.50 ft Max Depth: 6.58 ft

Max Width: 3.00 ft

Fillet: 0.00 ft

Bottom Clip

Default: 0.00 ft

Op Table: Ref Node:

Top Clip

Default: 0.00 ft

Op Table: Ref Node:

Discharge Coefficients

Weir Default: 3.200 Weir Table:

Orifice Default: 0.600

Orifice Table:

Weir Comment:

Drop Structure Comment:

Simulation: 25YR-24HR-SWFWMD

Scenario: Permitted Condition Run Date/Time: 8/22/2022 3:57:16 PM Program Version: ICPR4 4.07.08

> Run Mode: Normal

Year Month Day 0 0 Start Time: 0 End Time: 0 0 0

> Hydrology [sec] Surface Hydraulics Groundwater [sec] [sec] 900.0000

Min Calculation Time: 60.0000 0.1000 Max Calculation Time: 60.0000

Hour [hr]

0.0000

24.0000

Hydrology

l	Year	Month	Day	Hour [hr]	Time Increment [min]
	0	0	0	0.0000	5.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	5.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Reference ET Folder: Unit Hydrograph Folder: Lookup Tables

Boundary Stage Set: Extern Hydrograph Set: Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR IA Recovery Time: 24.0000 hr
Max Iterations: 6 ET for Manual Basins: False

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft

 $\begin{array}{ccc} \text{Max dZ:} & 1.0000 \text{ ft} \\ \text{Link Optimizer Tol:} & 0.0001 \text{ ft} \end{array}$

Edge Length Option: Automatic

Dflt Damping (2D): 0.0050 ft Min Node Srf Area 1 ft2 (2D): Smp/Man Basin Rain Global Opt:

OF Region Rain Opt: Global Rainfall Name: ~FLMOD

> Rainfall Amount: 7.50 in Storm Duration: 24.0000 hr

Dflt Damping (1D): 0.0050 ft Min Node Srf Area 100 ft2

(1D):

Energy Switch (2D): Energy Energy Switch (1D): Energy



Node Max Conditions w/ Times [Permitted Condition]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]	Time to Max Stage [hr]	Time to Min/Max Delta Stage [hr]	Time to Max Total Inflow [hr]	Time to Max Total Outflow [hr]
OUTFAL L	25YR-24 HR-SWF WMD	0.00	45.80	0.0017	160.74	0.00	0	16.0002	2.0271	13.5701	0.0000
POND7	25YR-24 HR-SWF WMD	0.00	49.01	0.0010	151.95	113.85	288473	13.3538	12.1989	12.4162	13.3538

Simple Basin: BA700MC

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 38.0400 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 12.0100 ac

Curve Number: 89.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BA700SE

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number

Time of Concentration: 71.5800 min

Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 8.9800 ac

Curve Number: 88.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BA700SW

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 23.2200 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 5.5200 ac

Curve Number: 94.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BA700W

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 34.8000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 11.8600 ac

Curve Number: 95.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BAMCEAST

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 106.2000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 11.0200 ac

Curve Number: 92.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BAMCSOUTH

Scenario: Permitted Condition

Node: OUTFALL

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 141.7200 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 7.1000 ac

Curve Number: 87.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAOFF

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 131.4600 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 2.3100 ac

Curve Number: 72.0

% Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Simple Basin: BAOFF2

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 138.7200 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256

Peaking Factor: 256.0

Area: 26.1800 ac

Curve Number: 85.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAOFF3

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 102.1800 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 br

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.4500 ac

Curve Number: 88.0 % Impervious: 0.00 % DCIA: 0.00

% Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BAOFF4

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 69.1200 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 1.5100 ac

Curve Number: 82.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BAOFFC

Scenario: Permitted Condition

Node: OUTFALL

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 245.5200 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 42.6100 ac

Curve Number: 87.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAOVMCE

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 26.7000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256

Peaking Factor: 256.0

Area: 4.6100 ac

Curve Number: 98.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BAPOND7

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 30.0000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 11.5900 ac

Curve Number: 94.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BARAMPD

Scenario: Permitted Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 94.7400 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256

Peaking Factor: 256.0 Area: 10.8700 ac

Curve Number: 87.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Node: OUTFALL

Scenario: Permitted Condition
Type: Time/Stage
Base Flow: 37.79 cfs
Initial Stage: 44.50 ft
Warning Stage: 0.00 ft

Boundary Stage:

Year	Month	Day	Hour	Stage [ft]	
0	0	0	1.0000		44.50
0	0	0	2.0000		44.50
0	0	0	3.0000		44.60
0	0	0	4.0000		44.60
0	0	0	5.0000		44.70
0	0	0	6.0000		44.80
0	0	0	7.0000		44.90
0	0	0	8.0000		45.00
0	0	0	16.0000		45.80
0	0	0	24.0000		45.30

Comment:

Node: POND7

Scenario: Permitted Condition
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 47.00 ft
Warning Stage: 0.00 ft

 Stage [ft]
 Area [ac]
 Area [ft2]

 47.00
 6.2100
 270508

 51.00
 7.1100
 309712

Drop Structure Link:	POND7-OUTFALL	Upstrea	am Pipe	Downstr	eam Pipe
Scenario:	Permitted	Invert:	42.00 ft	Invert:	41.00 ft
	Condition	Manning's N:	0.0120	Manning's N:	0.0120
From Node:	POND7	Geometry	: Circular	Geometry	y: Circular
To Node:	OUTFALL	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Link Count					
Link Count:	1			Bottom Clip	
Flow Direction:	Both	Default:	0.00 ft	Bottom Clip Default:	0.00 ft
Flow Direction:	Both Combine	Default: Op Table:	0.00 ft		0.00 ft
Flow Direction:	Combine		0.00 ft	Default:	0.00 ft

Damping: 0.0000 ft

Length: 90.00 ft Top Clip

Default: 0.00 ft

FHWA Code: 0

Default: 0.00 ft Op Table:

Manning's N: 0.0000

Op Table:

Entr Loss Coef: 0.20

Ref Node:

Ref Node:

Manning's N: 0.0000

Exit Loss Coef: 0.20 Bend Loss Coef: 0.00

Bend Location: 0.00 dec

Energy Switch: Energy

Pipe Comment:

Weir Component

Weir:

Weir Count: 1 Weir Flow Direction: Both

Damping: 0.0000 ft

Weir Type: Horizontal Geometry Type: Rectangular

Invert: 47.50 ft Control Elevation: 47.50 ft Max Depth: 6.58 ft

> Max Width: 3.00 ft Fillet: 0.00 ft

Default: 0.00 ft

Op Table: Ref Node:

0.00 ft

Default: Op Table: Ref Node:

Discharge Coefficients

Weir Default: 3.200 Weir Table:

Orifice Default: 0.600

Orifice Table:

900.0000

Weir Comment:

Drop Structure Comment:

Permitted Condition Scenario: Run Date/Time: 8/22/2022 3:52:13 PM Program Version: ICPR4 4.07.08

Run Mode: Normal

Year Month Hour [hr] Day 0 0 0.0000 Start Time: 0 End Time: 0 0 0 24.0000

> Hydrology [sec] Surface Hydraulics Groundwater [sec] [sec]

Min Calculation Time: 60.0000 0.1000 Max Calculation Time: 60.0000

Hydrology

Year	Mo	lonth	Day	Hour [hr]	Time Increment [min]
0	0		0	0.0000	5.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	5.0000

Groundwater

Year	Month	Day	Hour [hr]	Time	Increment [min]
0	0	0	0.0000		15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Reference ET Folder: Unit Hydrograph Folder: Lookup Tables

Boundary Stage Set: Extern Hydrograph Set: Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR IA Recovery Time: 24.0000 hr
Max Iterations: 6 ET for Manual Basins: False

Over-Relax Weight 0.5 dec

Fact:

Link Optimizer Tol: 0.0001 ft

Edge Length Option: Automatic

(2D):

Max dZ: 1.0000 ft

dZ Tolerance: 0.0010 ft

Smp/Man Basin Rain Global

Opt:

OF Region Rain Opt: Global
Rainfall Name: ~FDOT-8
Rainfall Amount: 9.20 in
Storm Duration: 8.0000 hr

Dflt Damping (2D): 0.0050 ft
Min Node Srf Area 1 ft2

Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 1 00 ft2

(1D):

Energy Switch (2D): Energy Energy Switch (1D): Energy

Comment:

Simulation: 50YR-8HR-FDOT

Scenario: Permitted Condition
Run Date/Time: 8/22/2022 3:52:51 PM
Program Version: ICPR4 4.07.08

Genera

Run Mode: Normal

_	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics		Groundwater [sec]
_		[sec]		
Min Calculation Time:	60.0000	0.1000		900.0000
Max Calculation Time:		60.0000		

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	5.0000

Surface Hydraulics

Year	Month		Day	Hour [hr]	Time Increment [min]	
0	0		0	0.0000	5.0000	

Groundwater

Year Month		Day Hour [hr]		Time Increment [min]	
0	0	0	0.0000	15.0000	

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Reference ET Folder: Unit Hydrograph

Lookup Tables

Boundary Stage Set: Extern Hydrograph Set: Curve Number Set: Folder:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

Tolerances & Options

Time Marching: SAOR IA Recovery Time: 24.0000 hr
Max Iterations: 6 ET for Manual Basins: False

Over-Relax Weight 0.5 dec

Fact

dZ Tolerance: 0.0010 ft Smp/Man Basin Rain Global

Opt:

(1D):

Max dZ: 1.0000 ft OF Region Rain Opt: Global

Link Optimizer Tol: 0.0001 ft Rainfall Name: ~FDOT-8
Rainfall Amount: 6.95 in

Edge Length Option: Automatic Storm Duration: 8.0000 hr

Dflt Damping (2D): 0.0050 ft
Min Node Srf Area 1 ft2

Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2

(2D):

Energy Switch (2D): Energy Energy Switch (1D): Energy

Node Max Conditions w/ Times [Permitted Condition]

Node	Sim	Warning	Max	Min/Max	Max	Max	Max	Time to	Time to	Time to	Time to
Name	Name	Stage	Stage	Delta	Total	Total	Surface	Max	Min/Max	Max	Max
		[ft]	[ft]	Stage	Inflow	Outflow	Area	Stage	Delta	Total	Total
				[ft]	[cfs]	[cfs]	[ft2]	[hr]	Stage	Inflow	Outflow
									[hr]	[hr]	[hr]
OUTFAL	100YR-8	0.00	45.80	0.0017	225.42	0.00	0	16.0097	14.8930	6.0322	0.0000
L	HR-FDO										
	Т										
POND7	100YR-8	0.00	49.85	0.0010	203.31	145.58	298428	5.6552	3.3718	4.2336	5.6552
	HR-FDO										
	Т										
OUTFAL	50YR-8	0.00	45.80	0.0017	183.67	0.00	0	16.0016	13.9516	5.6142	0.0000
L	HR-FDO										
	Т										
POND7	50YR-8	0.00	49.06	0.0010	147.81	118.77	290730	5.3855	1.7686	4.2335	5.3855
	HR-FDO										_
	Т										

Simple Basin: BA 700BL

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 44.0000 min
Max Allowable Q: 99999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 5.9500 ac

Curve Number: 98.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BA700MC

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 38.0400 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 8.5900 ac

Curve Number: 93.3
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BA700SE

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number

Time of Concentration: 71.5800 min

Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256

Peaking Factor: 256.0

Area: 6.3600 ac Curve Number: 92.3 % Impervious: 0.00 % DCIA: 0.00

% Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BA700SV

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 23.2200 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 6.5800 ac lumber: 95.4

Curve Number: 95.4
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BA700W

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 34.8000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 11.8500 ac

Curve Number: 93.2 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BAMCEAST

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 106.2000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 9.7300 ac

Curve Number: 89.7
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAMCSOUTH

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number
Time of Concentration: 141.7200 min

Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256

Peaking Factor: 256.0

Area: 6.9400 ac Curve Number: 89.3

% Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Simple Basin: BAOFF1

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 131.4600 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256

Peaking Factor: 256.0

Area: 2.3100 ac

Curve Number: 72.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAOFF2

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 138.7200 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 26.1800 ac

Curve Number: 85.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BAOFF3

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 102.1800 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 1.4500 ac

Curve Number: 88.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAOFF4

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 69.1200 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 1.5100 ac

Curve Number: 82.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAOFFC

Scenario: Proposed Condition

Node: OUTFALL

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 245.5200 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 42.6100 ac

Curve Number: 87.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BAOVMCE

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 26.7000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 4.1200 ac

Curve Number: 98.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAPOND7

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 30.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256

Peaking Factor: 256.0

Area: 11.5900 ac

Curve Number: 94.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Simple Basin: BARAMPD

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 94.7400 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 10.8700 ac

Curve Number: 87.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Node: OUTFALL

Scenario: Proposed Condition
Type: Time/Stage
Base Flow: 24.44 cfs
Initial Stage: 44.50 ft
Warning Stage: 0.00 ft

Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	1.0000	44.50
0	0	0	2.0000	44.50
0	0	0	3.0000	44.60
0	0	0	4.0000	44.60
0	0	0	5.0000	44.70
0	0	0	6.0000	44.80
0	0	0	7.0000	44.90
0	0	0	8.0000	45.00
0	0	0	16.0000	45.80
0	0	0	24.0000	45.30

Comment:

Node: POND7

Scenario: Proposed Condition
Type: Stage/Area
Base Flow: 0.00 cfs

Initial Stage: 47.60 ft Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
47.00	6.1700	268765
51.00	7.0700	307969

Comment:

Drop Structure Link:	POND7-OUTFALL	Upstrea	ım Pipe	Downstream F	Pipe
Scenario:	Proposed Condition	Invert:	42.00 ft	Invert: 41.0	00 ft
From Node:	POND7	Manning's N:	0.0120	Manning's N: 0.01	20
To Node:	OUTFALL	Geometry	: Circular	Geometry: Circ	tular
Link Count:	1	Max Depth:	4.00 ft	Max Depth: 4.00) ft
Flow Direction:	Both			Bottom Clip	
Solution:	Combine	Default:	0.00 ft	Default: 0.00) ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N: 0.00	000
Length:	90.00 ft			Top Clip	
FHWA Code:	0	Default:	0.00 ft	Default: 0.00) ft
Entr Loss Coef:	0.20	Op Table:		Op Table:	
Exit Loss Coef:	0.20	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N: 0.00	000
Bend Location:	0.00 dec				
Energy Switch:	Energy				
Pipe Comment:					

Weir Cor	mponent	<u> </u>	
Weir:	1	Botto	m Clip
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Horizontal	Тор	Clip
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	47.60 ft	Op Table:	
Control Elevation:	47.60 ft	Ref Node:	
Max Depth:	6.58 ft	Discharge	Coefficients
Max Width:	2.50 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Simulation: 25YR-24HR-SWFWMD

Min Calculation Time:

Scenario: Proposed Condition
Run Date/Time: 9/9/2022 7:23:45 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

 Hydrology [sec]
 Surface Hydraulics
 Groundwater [sec]

 [sec]
 60.0000
 0.1000
 900.0000

Max Calculation Time: 60.0000

Output Time Increments

Hvdrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	5.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	5.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Reference ET Folder: Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set: Extern Hydrograph Set: Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:

Conductivity Set: Leakage Set:

Tolerances & Options

Time Marching: SAOR IA Recovery Time: 24.0000 hr
Max Iterations: 6 ET for Manual Basins: False

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft Smp/Man Basin Rain Global

Opt:

(1D):

Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft

OF Region Rain Opt: Global

Rainfall Name: ~FLMOD

Rainfall Amount: 7.50 in

Edge Length Option: Automatic Storm Duration: 24.0000 hr

Dflt Damping (2D): 0.0050 ft
Min Node Srf Area 1 ft2

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2

(2D):

Energy Switch (2D): Energy Energy Switch (1D): Energy

Node Max Conditions w/ Times [Proposed Condition]

Node	Sim	Warning	Max	Min/Max	Max	Max	Max	Time to	Time to	Time to	Time to
Name	Name	Stage	Stage	Delta	Total	Total	Surface	Max	Min/Max	Max	Max
		[ft]	[ft]	Stage	Inflow	Outflow	Area	Stage	Delta	Total	Total
				[ft]	[cfs]	[cfs]	[ft2]	[hr]	Stage	Inflow	Outflow
									[hr]	[hr]	[hr]
OUTFAL	25YR-24	0.00	45.80	0.0017	150.34	0.00	0	16.0005	2.0271	14.1477	0.0000
L	HR-SWF										
	WMD										
POND7	25YR-24	0.00	49.35	0.0010	158.87	104.59	291755	13.7132	11.8184	12.4163	13.7132
	HR-SWF										
	WMD										

Simple Basin: BA700BL

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 44.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 5.9500 ac

Curve Number: 98.0 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BA700MC

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 38.0400 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 8.5900 ac
Curve Number: 93.3
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BA700SE

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number

Time of Concentration: 71.5800 min

Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 6.3600 ac

Curve Number: 92.3 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BA700SW

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 23.2200 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 6.5800 ac

Curve Number: 95.4 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BA700W

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 34.8000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Curve Number: 93.2 % Impervious: 0.00 % DCIA: 0.00

Area: 11.8500 ac

% Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BAMCEAST

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 106.2000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 9.7300 ac

Curve Number: 89.7
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAMCSOUTH

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 141.7200 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 6.9400 ac

Curve Number: 89.3 % Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Simple Basin: BAOFF1

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 131.4600 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 2.3100 ac

Curve Number: 72.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAOFF2

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 138.7200 min

Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256

Peaking Factor: 256.0

Area: 26.1800 ac Curve Number: 85.0

% Impervious: 0.00 % DCIA: 0.00 % Direct: 0.00

Rainfall Name:

Comment:

Simple Basin: BAOFF3

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 102.1800 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 1.4500 ac

Curve Number: 88.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAOFF4

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 69.1200 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 1.5100 ac

Curve Number: 82.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAOFFC

Scenario: Proposed Condition

Node: OUTFALL

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 245.5200 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 42.6100 ac

Curve Number: 87.0 % Impervious: 0.00 % DCIA: 0.00

% Direct: 0.00 Rainfall Name:

Comment:

Simple Basin: BAOVMCE

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 26.7000 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 4.1200 ac

Curve Number: 98.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Simple Basin: BAPOND7

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 30.0000 min
Max Allowable Q: 9999.00 cfs

Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 11.5900 ac

Curve Number: 94.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Simple Basin: BARAMPD

Scenario: Proposed Condition

Node: POND7

Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 94.7400 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 10.8700 ac

Curve Number: 87.0
% Impervious: 0.00
% DCIA: 0.00
% Direct: 0.00
Rainfall Name:

Comment:

Node: OUTFALI

Scenario: Proposed Condition
Type: Time/Stage
Base Flow: 38.10 cfs
Initial Stage: 44.50 ft

Warning Stage: 0.00 ft

Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	1.0000	44.50
0	0	0	2.0000	44.50
0	0	0	3.0000	44.60
0	0	0	4.0000	44.60
0	0	0	5.0000	44.70
0	0	0	6.0000	44.80
0	0	0	7.0000	44.90
0	0	0	8.0000	45.00
0	0	0	16.0000	45.80
0	0	0	24.0000	45.30

Comment:

Node: POND7

Scenario: Proposed Condition

Type: Stage/Area Base Flow: 0.00 cfs

Initial Stage: 47.60 ft Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
47.00	6.2100	270508
51.00	7.1100	309712

Comment:

Drop Structure Link:	POND7-OUTFALL	Upstrea	ım Pipe	Downstream Pipe
Scenario:	Proposed Condition	Invert:	42.00 ft	Invert: 41.00 ft
From Node:	POND7	Manning's N:	0.0120	Manning's N: 0.0120
To Node:	OUTFALL	Geometry	r: Circular	Geometry: Circular
Link Count:	1	Max Depth:	4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both			Bottom Clip
Solution:	Combine	Default:	0.00 ft	Default: 0.00 ft
Increments:	0	Op Table:		Op Table:
Pipe Count:	1	Ref Node:		Ref Node:
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N: 0.0000
Length:	90.00 ft			Top Clip
FHWA Code:	0	Default:	0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.20	Op Table:		Op Table:
Exit Loss Coef:	0.20	Ref Node:		Ref Node:
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N: 0.0000
Bend Location:	0.00 dec			
Energy Switch:	Energy			
Pipe Comment:				

Weir Co	mponent	
Weir:	1	Bottom Clip
Weir Count:	1	Default: 0.00 ft
Weir Flow Direction:	Both	Op Table:
Damping:	0.0000 ft	Ref Node:
Weir Type:	Horizontal	Top Clip
Geometry Type:	Rectangular	Default: 0.00 ft
Invert:	47.60 ft	Op Table:
Control Elevation:	47.60 ft	Ref Node:
Max Depth:	6.58 ft	Discharge Coefficients
Max Width:	2.50 ft	Weir Default: 3.200
Fillet:	0.00 ft	Weir Table:
		Orifice Default: 0.600
		Orifice Table:

Weir Comment:

Drop Structure Comment:

Simulation: 100YR-8HR-FDOT

Min Calculation Time:

Max Calculation Time:

Scenario: Proposed Condition
Run Date/Time: 9/9/2022 7:35:36 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

 Hydrology [sec]
 Surface Hydraulics
 Groundwater [sec]

 [sec]
 0.1000
 900.0000

 60.0000
 60.0000

Output Time Increments

Hvdrology

Year	Month	Day	Hour [hr]	Time	Increment [min]
0	0	0	0.0000		5.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	5.0000

Groundwater

Year	Mo	onth	Day		Hour [hr]	Time Increment [min]
0	0		0		0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: Reference ET Folder: Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set: Extern Hydrograph Set: Curve Number Set:

> Green-Ampt Set: Vertical Layers Set: Impervious Set: Roughness Set: Crop Coef Set: Fillable Porosity Set:

Conductivity Set: Leakage Set:

Tolerances & Options

Time Marching: SAOR IA Recovery Time: 24.0000 hr
Max Iterations: 6 ET for Manual Basins: False

Over-Relax Weight 0.5 dec

Fact:

(2D):

dZ Tolerance: 0.0010 ft Smp/Man Basin Rain Global

Opt:

Max dZ: 1.0000 ft OF Region Rain Opt: Global Link Optimizer Tol: 0.0001 ft Rainfall Name: ~FDOT-8

Rainfall Amount: 9.20 in

Edge Length Option: Automatic Storm Duration: 8.0000 hr

Dflt Damping (2D): 0.0050 ft
Min Node Srf Area 1 ft2

Dflt Damping (1D): 0.0050 ft

Min Node Srf Area 100 ft2

(1D):

Energy Switch (2D): Energy Energy Switch (1D): Energy

Comment:

Simulation: 50YR-8HR-FDOT

Scenario: Proposed Condition

Run Date/Time: 9/28/2022 10:55:03 AM

Program Version: ICPR4 4.07.08

\sim		10	Δ	re	ч
	(SH	ш	e	Пο	

Run Mode: Normal

_	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

 Hydrology [sec]
 Surface Hydraulics [sec]
 Groundwater [sec]

 60.0000
 0.1000
 900.0000

Min Calculation Time: 60.0000 0.1000

Max Calculation Time: 60.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	5.0000

l	Year	Month	Day	Hour [hr]	Time Increment [min]
	0	0	0	0.0000	5.0000

Year	Month	Day	Hour [hr]	Time Increment [min]	
0	0	0	0.0000	15.0000	

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Reference ET Folder: Unit Hydrograph Folder:

Rainfall Folder:

Lookup Tab

Boundary Stage Set: Extern Hydrograph Set: Curve Number Set:

Green-Ampt Set: Vertical Layers Set: Impervious Set: Roughness Set: Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set:

Tolerances & Options

Time Marching: SAOR IA Recovery Time: 24.0000 hr ET for Manual Basins: Max Iterations: False

Over-Relax Weight 0.5 dec

Fact:

dZ Tolerance: 0.0010 ft

(2D):

Smp/Man Basin Rain Global

Opt:

Max dZ: 1.0000 ft OF Region Rain Opt: Global Link Optimizer Tol: 0.0001 ft Rainfall Name: ~FDOT-8 Rainfall Amount: 6.95 in Edge Length Option: Automatic

Storm Duration: 8.0000 hr

Dflt Damping (2D): 0.0050 ft Dflt Damping (1D): 0.0050 ft Min Node Srf Area 1 ft2 Min Node Srf Area 100 ft2

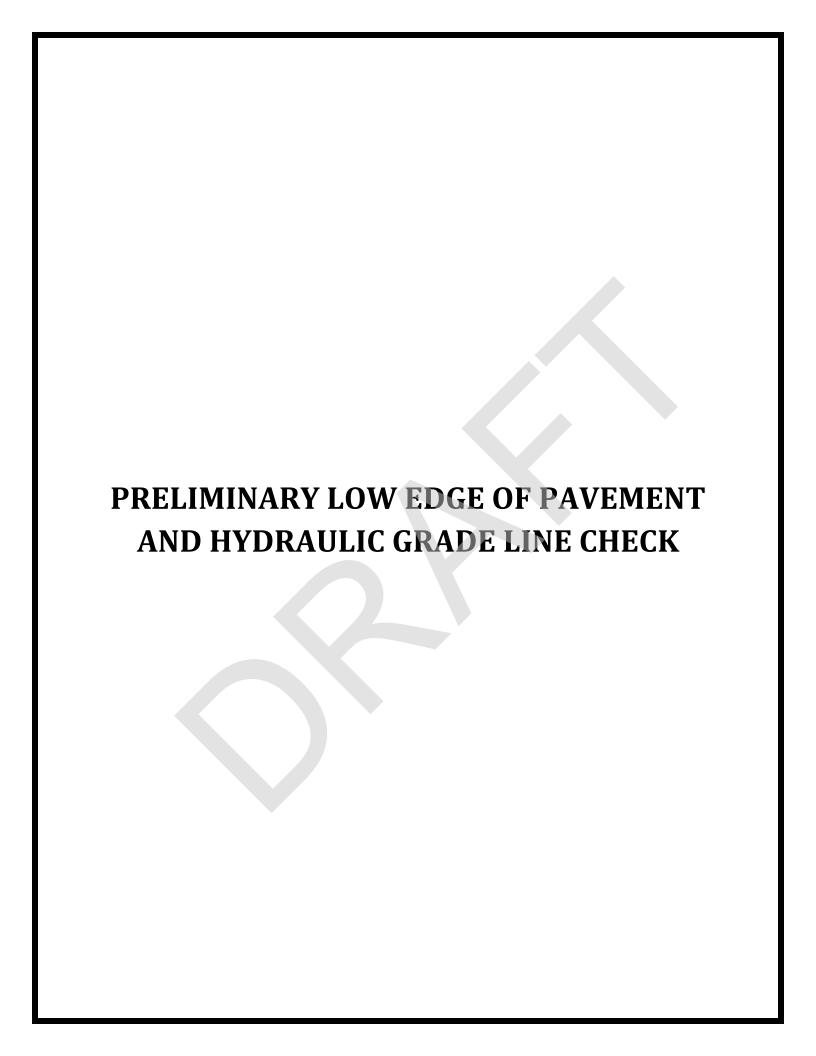
(1D):

Energy Switch (2D): Energy Energy Switch (1D): Energy

Comment:

Node Max Conditions w/ Times [Proposed Condition]

		7 1111103	F								
Node	Sim	Warning	Max	Min/Max	Max	Max	Max	Time to	Time to	Time to	Time to
Name	Name	Stage	Stage	Delta	Total	Total	Surface	Max	Min/Max	Max	Max
		[ft]	[ft]	Stage	Inflow	Outflow	Area	Stage	Delta	Total	Total
				[ft]	[cfs]	[cfs]	[ft2]	[hr]	Stage	Inflow	Outflow
									[hr]	[hr]	[hr]
OUTFAL	100YR-8	0.00	45.80	0.0017	209.45	0.00	0	16.0060	15.5893	6.3533	0.0000
L	HR-FDO										
	T										
POND7	100YR-8	0.00	50.54	0.0010	212.27	135.69	305189	5.9907	2.9028	4.2331	5.9907
	HR-FDO										
	T										
OUTFAL	50YR-8	0.00	45.80	0.0017	172.00	0.00	0	16.0022	14.4022	6.1197	0.0000
L	HR-FDO										
	Т										
POND7	50YR-8	0.00	49.54	-0.0010	155.01	110.16	295369	5.7059	7.6091	4.2334	5.7059
	HR-FDO										
	Т										



Basin	Critical Location Station	Critical Location Description	LEOP (ft, NAVD 88):	50YR DHW (ft, NGVD 29)	50YR DHW (ft, NAVD 88)	Distance To Pond (ft):	DHW Clearance To LEOP *(ft):	Design Comment
Basin 1	2128+16.71	WB outside shoulder	36.11	33.59	32.74	2100	1.27	
Basin 2	2182+71.83	WB outside shoulder	30.19	28.97	28.12	400	1.67	
Basin A (Pond A2)		Roadway design not complete. Existing LEOP (I4 WB to I75 NB ramp)	27.20		22.74	900	3.56	Pond modeled in NAVD 88. Based on 100YR 8HR FDOT.
Basin 100B		Roadway design not complete. Existing LEOP (I4 EB to I75 NB ramp)	32.50	25.22	24.37	150	7.98	
Basin 100C	2373+96.52	WB outside shoulder	27.82	25.56	24.71	1000	2.11	
Basin 200	2420+51.22	EB outside shoulder	28.08	26.94	26.09	700	1.29	
Basin 300 (Pond 3A)	2446+15.83	WB ramp outside shoulder	57.85	57.40	56.55	50	1.25	
Basin 300 (Pond 3B)	2446+15.83	WB ramp inside shoulder	61.16	57.69	56.84	50	4.27	
Basin 300 (Pond 3B)	2446+15.83	WB outside shoulder	58.28	57.69	56.84	50	1.39	
Basin 300 (Pond 3C)	2446+15.83	EB ramp outside shoulder	58.30	57.95	57.1	50	1.15	
Basin 300 (Pond 3D)		Roadway design not complete. Existing LEOP (I4 EB exit ramp)	63.50	58.85	58	150	5.35	
Basin 300 (Pond 3E)		Roadway design not complete. Existing LEOP (I4 EB entrance ramp)	78.50	66.35	65.50	130	12.87	
Basin 400	2492+52.73	WB inside shoulder	84.54	80.00	79.15	700	4.69	Based on 100YR 24HR FDOT.
Basin 500 (Pond 5)	2567+15.49	WB outside shoulder	46.26	43.45	42.60	900	2.76	
Basin 500 (Pond S-1)	2567+15.49	WB inside shoulder	46.73	44.49	43.64	20	3.07	
Basin 600 (Pond 6A)	2593+34.91	WB outside shoulder	47.93	46.08	45.23	400	2.30	
Basin 600 (Pond 6B)	2614+75.80	EB outside shoulder	47.58	46.02	45.17	1200	1.21	
Basin 700	2625+00.00	EB outside shoulder	51.75	49.54	48.69	500	2.56	
Basin 800	2696+50.00	EB outside shoulder	68.93	67.49	66.64	800	1.49	
Basin 900	2743+86.69	WB outside shoulder	75.44	74.18	73.33	650	1.46	
Basin 1000	2772+50.00	EB inside shoulder	83.75	81.40	80.55	500	2.70	
Basin 1100 (Pond 11)	2803+50.00	EB outside shoulder	89.84	88.70	87.85	600	1.39	
Basin 1100 (Pond BA BFN2)		WB entrance ramp. Existing LEOP as roadway design not complete.	94.05		91.81	200	2.04	Pond modeled in NAVD 88. Based on 10YR for ramps.
Basin 1100 (Pond BA BFS2)		EB exit ramp. Existing LEOP as roadway design not complete.	93.95		91.66	200	2.09	Pond modeled in NAVD 88. Based on 10YR for ramps.
Basin 100 (Pond 1)	2849+13.28	EB outside shoulder	106.95	97.08	96.23	900	9.82	
Basin 100 (Pond 1A)		WB exit ramp. Existing LEOP as roadway design not complete.	93.95		92.82	100	1.03	Pond modeled in NAVD 88. Based on 10YR for ramps.
Basin 100 (Pond 1D)		EB entrance ramp. Existing LEOP as roadway design not complete.	94.00		92.77	200	1.03	Pond modeled in NAVD 88. Based on 10YR for ramps.
Basin 200	2883+35.32	WB outside shoulder	104.43	103.08	102.23	600	1.60	

Notes: LEOP - Low Edge of Pavement

* Estimates assume Hydraulic Grade Line slope of 0.1% per Section 3.6.1 of Drainage Manual



JECT: <u>T-4 MILLS BOROUGH</u>

PROPUSED CONDITIONS

BA- 700 W

PAVEMENT =
$$1605+60-1598+50 = (158.5)(650) = 2.37 \text{ M}$$
 $1598+50-1580+33=(18/7)(151)=6.30 \text{ M}$
 $1599+50-1594+70=(480)(21)=0.23 \text{ M}$
 $1594+70-1580+33=(480)(21)=0.46 \text{ M}$
 $1594+70-1580+33=(480)(21)=0.46 \text{ M}$
 $1594+50-1580+33=(4917)(48)=2.11 \text{ M}$

CN = (9.36/40) + (2.50/84)/ 11.86 = 95

$$T_{c} = 0$$
 35' SHET FLOW • 2.0% = 0.007 HRS

© 12' SHET FLOW • 3.0% = 0.008 HRS

© 30' SHET FLOW • 16.67% = 0.02/ NRS

© 211' SHET FLOW 68.0 - 16.78/211 = 002 (E) = 0.222 HRS

© 50' PIPE FLOW • V= 2.5' = 0.006 HRS

© 50' PIPE FLOW FLOW 1596+00 - 1582+00 0.2% L=1460

V= 1.46% (12) = 0.309 HRS

0.580DEK



JECT: I-4 HILLS BORDUGH

PROPUSED CONDITIONS

COMP. BY: #50 CHK. BY: ROR DATE: 8/11/95 SHEET NO...

JOB NO.: 10 -041.54

BA-MC EAST

FROM 1645+08 TO 1621+72

PAVEMENT 1646 + 23 - 1645 + 49 = (71)(2)(47) = 0.16 K 1645 + 49 - 1621 + 72 = (2377)(47 + 57 + 47) = 8.24 K 1622 + 87 - 1621 + 72 = 115 /50 (5)(115)(27) = 0.003 K

GRASS = (2877)(48) = 2.62-

0.75 0 49

0.75 @ 84

1.12 0 79

CN = (8.40) 96) + (0.75)(49) + (0.75) (84) + (1.12)/19)/ 11.02 = 92

The 1.77 HOURS



PLOPOSED CONDITIONS

JECT:	I-4	HILLSBOROUGH	

E = 1.77 HOURS

B1-700 NE



553

PROPUSED CONDITIONS

BA- 700 MC

PAVEMENT =
$$16Z1+7Z-1614+00=(77Z)(47+57+47)=2.68 \text{ M}$$

 $MC-4$ $16Z1+7Z-16/7+9Z=(380)(2)(2.3+17)=0.08 \text{ M}$
 $(400(21))+(680)(21))^{2}=0.52 \text{ M}$

$$MC-1$$
 (515)(21) = 0.25 K
 $(2)(\frac{7}{4})(40^2)$ EMBLANKMENT SLOPE PLOTECTION = 0.05 K
 $MCINTOSIN$ = 0.78 K
 $E = 4.36$

$$GRASS = 6.33 \times 0.84$$

$$1621+72-161+00 = (772 \times 10) = 0.85 \times 0.84$$

$$(430)(48) = 0.47 \cdot 0.84$$

$$CN = (4.36)(10) + (7.65)(84)/(2.0) = 89.$$

(3) PIPE KLOW 150' @
$$V = 2.5^{\frac{1}{2}}$$
 = 0.07 MRS
(4) DITEN FLOW 255' $S = 0.2^{\frac{1}{2}}$ $V = 1.49^{\frac{1}{2}}$ = 0.059 MRS
(5) PIPE FLOW 1145' @ $V = 2.5^{\frac{1}{2}}$ = 0.127 HRS
 $E = 0.634$ HBS



1472

PLOTE I-4 MILLS BOROUGH

PROPOSED CONDITIONS

BI- 700 SE PAVEMENT ALEK

MAINRINE $164\varsigma + 49 - 1621 + 72 = (2877)(57) = 3.11 \text{ L}$ $1621 + 72 - 1614 \cdot 00 = 2(172)(57) = 1.01 \text{ L}$ RAMP MC3 1632 + 63 - 1617 + 91 = (1409)(2)(28) = 0.45 L 1617 + 91 - 1612 + 60 = (591)(21) = 0.28 L



GRISS = (2377)(46) =

0.68 0 47

0.68 • 84 + 0.4 • 84 + 1.35 • 84

1.62 - 77

CN= (4.85(98)+ (0.68)(47) + 6.43/(84) + (1.02)(77) f 8.78 = BB_

To = 0 OVERLAND FLOW 35' @ 2.08 (4) = 0.007

€ OVERLAND FLOW 12' 0 3.0% (= 0.003

(3) OVERWAND FLOW 12' . 6.0% (1) = 0.002

€ O'IERWAND FLOW 21' @ 16.74 (5 = 0.01

€ OVERLAND FLOW FROM 1695+14 TO 1642+74 220' € 0.2.4 (E) = 0.24

@ 1000' SMALLOW COME. FROM 1642+9+ 10 168219+ 8 0.26 = 0.72

€ DIRN FLOW FROM 1652+94 to 164+05 L= Z189 . 0.42 Laws

V= 1.48((15.2) 3 (0.0027) = 1.46 5

@ PIPE FLOH 415' @ V= 7.6% =

. 0.0151 HOURS

@ DITTLY FLOW 360' 5-0.1% SI= 41

y. 1.486 (M 18.28) 24 (0.2.1) 4 . 0.984

= 0.10Z NOVES

() PIPE FLOW 150' V= 2.54

= 0.017 Hours

(1) DIEN KOW 255' S=0.1% Y- 0.984

(1) PIPE FLOW 1145' V= 2.5'S

0.127 DOCE

PROPOSE) CONSTIONS

COMP. BY: ASD

CHK. BY: RCR

DATE: 8/6/93

SHEET NO...

JOB NO.: 10-641.54

BA- RAMPD

AREA = 10.87 ALMES

4.78 RESIDENTIAL NSG D = 826.09 ROW CROPS AKG D = 91 CN = 4.78 (BZ) + (6.09)(91) / 10.87 = 87

The substitution of G2.2 - G2.1 / 300 = 0.0037 / (F) = 0.90 HOURE

O SHAPLOW CONK FROM 1672+00 to 1612+00 = 57.64-55.00 / 100 = 0.00264 / (6) = 0.338

O DITCH FLOW FROM 1612+00 to 1606+80 = 520 / 5=0.24 $V = \frac{1.161}{0.04} \left(\frac{9}{1724}\right)^{\frac{1}{2}} \left(6.24\right)^{\frac{1}{6}} = 1.28 / 1.28$

BA- OFFC (EX-OFFA)

MEN = 42.61 ANT

28.49 ROW CROPS USG C = 88

CN = (28.41/88) + (14.12)(86) / 42.61 = 87



E = 1 579 LOURS

JECT:	E-+ NILLS BOROUGU	
2020	PROFES CONDITIONS	

COMP. BY: ASP CHK. BY: RCL DATE: B|B|93 SHEET NO... JOB NO.: 10-641.54

BA-OVMCE = 1605 + 10 70 1612 + 00 L = 900' PANEMENT = (223)/9 = 4.61 RADE CN = 98 O 10 M.N TO INSET = 0.167 Hears E 375' PIPE 120W & 4.04 = 0.026 MOURS O 70 POND 7 = 0.252 NOURS E = 0.445 POURS



55

JECT: I-4 WILLSBOROGES

PROPOSED CONDITIONS

COMP. BY: _#SD CHK. BY: RUL

DATE: 8/9/93

SHEET NO ..___

JOB NO .: 10-041.54

BA-700SW FROM 1580+35 TO 1595+25 L= 1490 PAVEMENT = (1490/57) = 1.95

RAIMI MC-2 FROM 1991+80 TO 1586+13 L= (487)(28) = 0.31 FROM 1595+25 to 159/141 . L= (4251)(21) = 0.20

MAINLINE = 1605+60- 1575+25 = (975/64.5)= 1.44 AL

GNEX = 1.62 ALS @ 84

CN = (3.9 / 98) + (1.62 / 84) / 5.52 = 942

TC= 0 10 MIN TO

(2) PIRE FLOW 740' 0 V= 4.04 = 0.05/ HOWN

3 PIPE FLOW 60' 0 V= 4.04 = 0.006 hours

@ DITCH FLOW FROM 1595+15 TO 1582+00 L= 1315 SE 62.5- 48.12/1315 = 0.014

V= 1.486 / 10.0) 3 (0.01) = 2.94

& PIRE FLOW 350' @ 2.54

= 0.039 Lours

5 = 0.387 Lone



JECT: I.A DILLS BOX 0016A plansed conditions

COMP. BY: __ASD DATE: 6/6/93 SHEET NO ..___ JOB NO.: 10-041.54

BA-OFF3

AREA = 1.45 KMES

ON= ROW CROPE 454 "C" = 88

TE O OVERLAND MOW 300'

64.3- 63.5 /300 = 0.00274 (CROPI) = 0.800 NI @ SHOWOW CONC 90' 6 63.5 - 63.2/ (STD 1625-30! (WANVED) = 0.027 H

\$ SHALLOW CONC 910' \$ 58.5- 57.5 / 910 = 0.0014 (LIMMICE) = 0.495 L

to 1616+20

@ 7 20 KLOW KROM 16:6- 20 TO 16:0-00 L= 620' 58.5- 55.0 / 620 = 0.6064

V= 1.481 10.0) (0.006) = 2.11

B TO POND 7

- 0.08Z Hours

2 0.299 NOURS

E - 1.703 NOVES

BA-OFF4

AREA = 1.51 LERES

CN= REDEX AL 154 "D" = 82

To O OVERUSNO FLOW 300' 67.5- 60.7 /30 = 0.0084 (GER) = 0.448 HOUSE

@ SHALLOW CONC 95' 60.9-60.09/95 - 8.0087 (BAK)

@ SHALLOW COME FROM 5TA 1621+00 to 1612+00

58.0 - 56.2 /905 = 0.002 = 0.368 HOUR

(1) TIKN FLOW FROM 1612+01 TO 1610+01

V= (1+06 / 10) . (0.28) . 1.20 Florida

= 0.044 INVAS.

@ TO POND 7

E = 1.152 HOURS

JECT: I-+ WILLSBOROXIGN PROPUSED CONDITIONS COMP. BY: _____ CHK. BY:__ DATE: 8/6/98 SHEET NO ... JOB NO.: 10-04/.54

BA- OFFI

AREA = 2.3/ Kais

CN = STRAIGHT ROW CROP HISG A = 72.0

300' 66.2-66.15 /300 = 0.0002 (CRUP) \$ 0.984 NOUN TC = D OVERLAND FROM 0.176 NOLE

250' 66:0- 65.8 / 250 = 6.00.64 (6) (2: SISOLOW CONC

120m STA 1642+00 - 750 = 1634+50 (3) SIDOLLOW CONIL

63.4 - 61.7 /750 = 0.00 Z3 4 (v) 2 0.269 NOVAS

@ DIRIJ FLOW FROM 1634+50 TO 1610'10 = 2450

61.7- 55.0. / z450 = 0.00 Z71 V= 1.486 (10) 3 (0.002) = 1.47

0. 463 NOURS

15 TO POND 7

= 0.299 HULIN

&= 2.19/ HOURS

RA-OFFZ

AREA = 26.18 RAES

CN = ROW CROPS HSG C = 85.0

The 10 OVERLAND MOW 300' 65.0-64.6/300 = 0.0013/1 (E) = 0.916 Noves

@ SMALLOW CONE 1000' 64.6- 627 / 1000 = 0.60194 (u)

" 0.396 HOURS

< 0.728 NOURS

3 DITLN FLOW 410' @ 0.5/8

6 DITCH FLOW FROM 1635-80 TO 1610-60 L= ZERY

(1.80 - 55.60 / 2500 = 0.00274 V= (1486) 10.6) / (0.012) = 1.47

0.474 NOURS

(5, TO ROND)

0.299 NOUR

&= Z. 31Z HOURS



PROPOSED CONDITIONS

BA- Mc SOUTH

AREN = 7.10 ALNES

FAVIENTENT = RAMP C = (700)(21) = 0.34 MRAMP B = (770)(21) = 0.31 MMelward = 0.58 & + 0.05 M

+ SLOTE PROTECTION AT BRIDGE ARMEMENT = (2/3/404) = 0.05

ET 1.39 RES @ 98

CRES = 5.71 h @ 84

CN = (5.71)(84) + (1.39 (90) / 7.10 = 87.

 $T_{c} = 0$ 30' SHEF FLOW @ \$6.1- \$5.4/30 =: 0.82834 (4) = 0.006 AIR

(2) Z_{1}' SHEF FLOW @ \$5.4-\$3.0/ Z_{2} Z_{1} 0.1204 (4) \Rightarrow 0.026 NIL

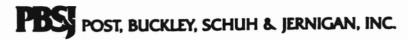
(3) Z_{1}' SHEF FLOW @ \$5.0-\$2.0/ Z_{2} Z_{2} 0.000845 (F) \Rightarrow 1.48 HIP

(4) \$40' SHMUON CONC @ \$72.8-47.7/\$40 = 0.005445 (A) \Rightarrow 0.127 HIP

(5) \$725' (48×42 KLY) $Y = Z_{1}S_{1}'$ (6) $Z_{1}S_{2}S_{1}'$ (48×42 KLY) $Y = Z_{1}S_{1}'$ (7) $Z_{2}S_{1}'$ (48×42 KLY) $Z_{1}S_{2}'$ (8) $Z_{2}S_{1}'$ (48×42 KLY) $Z_{2}S_{1}'$ (9) $Z_{2}S_{1}'$ (10×4' C.8.C. @ $Z_{1}S_{1}'$)
(9) $Z_{2}S_{1}'$ (10×4' C.8.C. @ $Z_{1}S_{1}'$)
(10×4' C.8.C. @ $Z_{1}S_{1}'$)

50





ECT:_	T-4 N	ILL SRORO UGII	
		O CONDITIONS	

RA-RONIN 700

AREA = 11.59 $T_{\bullet} = 0.50$ (SAME AS EXISTING) CN = (6.59)(89) + (5.00)(100) / 11.59 = 94



JECT: I-4 HILLS ROROUGH SEG IT

PROPOSED CONDITIONS

JOB NO.: 10-041.54

POND 7 TREATMENT VOLUME DETERMINATION

BA-700W = 9.36

BA- MCERT & 8.40

BA-700MC = 4.36

BA-700SE = 4.85

BA- OVMCE = 4.61

8A - 700SW = 3.90

35.48 ALRES

TREATMENT VOLUME = (1/2 (35.48) = 2.96 ME-FT

STAGE ANEX

51.0 7.11 NEAR Z6.64 N-P

3.00

47.0 6.21 MAS 0

(20.64-2.00) (51-91) = 3.55 51-3.55= 47.45

50 TL DAW 49.16



DESIGN HYDRAULICS STUDY S.R. 400 (INTERSTATE 4) SEGMENT 2 S.P.N. 10190-3428 W.P.I. 7143198

4.6.3 POND DESIGN

Pond 7 is located on the north side of I-4 just to the east of the 10 foot by 4 foot CBC near station 1580+80. For an explanation of the Pond 7 location analysis, see <u>Conceptual Pond Location Study for S.R. 400 (Interstate 4) Improvements From I-75 to West of Branch Forbes Road</u>, submitted January 1993. Pond 7 is located within an area of type 'D' soils. Because the SHWT elevations are typically at or 1 foot below the existing ground elevations, Pond 7 shall be a wet treatment system.

The Pond 7 control structure is a type 'H' DBI modified with a 6.7 inch by 6.0 inch rectangular notch bleed down orifice at elevation +47.00. The top of the structure at elevation +47.50 NGVD serves as the overflow weir. A 48 inch RCP carries overflow from the pond to an existing ditch which flows to the channel of the 10 foot by 4 foot CBC at station 1580+80. The invert of the 48 inch RCP within the structure is +41.70 NGVD. The bottom of the structure is filled with 0.7 feet of grout from elevation +41.70 NGVD to elevation +41.00 NGVD to inhibit floatation of the structure. A BRN analysis for sizing of the bleed down orifice and weir displacement calculations follow. Weir displacement calculations follow.

Pond 7 must meet permanent wet pool and littoral zone requirements as per the SWFWMD PIM. Permanent wet pool and littoral zone calculations follow.

Pond 7 meets the requirements set forth by FDOT Rule 14.86. Table 4.6.3.1 below lists the pre and post-developed discharges, design peak stages, and the top of bank elevations for Pond 7.

TABLE 4.6.3.1 DESIGN SUMMARY FOR BASIN 700								
POND NUMBER	PRE-DEV PEAK DISCHARGE (cfs)**	POST-DEV PEAK DISCHARGE (cfs)**	PEAK STAGE (ft)	TOP/ BANK (ft)				
7*	252	209	49.90	51.00				

Proposed stages and discharges correspond to the 100 year/8 hour event. Pre and post-developed rates are monitored at a single reference point. Basins 600 and 700 outfall to a single reference point.

** Peak discharges and stages correspond to the 100 year/8 hour event.





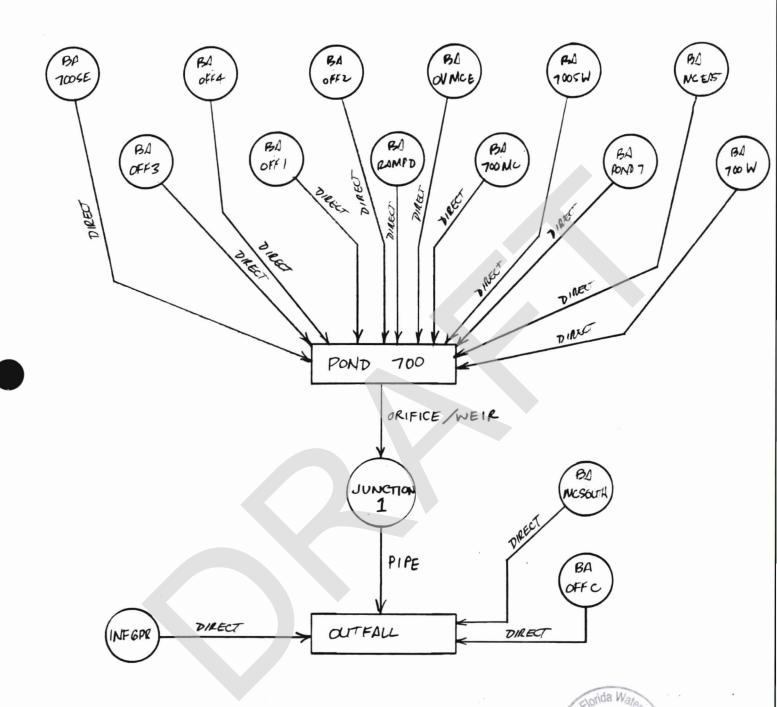
BASIN 700



4011896.00

CT: I-4 HILLSBOROUGH SEGMENT II

BASIN 700 PROPUSED



Project C:\BRNV32\POND700.WBS\POND7.BRN
Last Revised on Thu Nov 11 11:36:43 1993
Run of Thu Nov 11 11:37:10 1993 (Status = CONVERGED)

Project Contains 17 Paths. Project Contains 18 Nodes.

Path	Up Stream Node Name	Down Stream Node Name	Path Type
0	INF6PR	OUTFALL	DIRECT
1	BA700SE	POND7	DIRECT
2	BAMCSOUTH	OUTFALL	DIRECT
3	BAOFF3	POND7	DIRECT
4	BAOFF4	POND7	DIRECT
5	BAOFF1	POND7	DIRECT
6	BAOFF2	POND7	DIRECT
7	BARAMPD	POND7	DIRECT
8	BAOFFC	OUTFALL	DIRECT
9	BAOVMCE	POND7	DIRECT
10	BA700MC	POND7	DIRECT
11	BA700SW	POND7	DIRECT
12	BAPOND7	POND7	DIRECT
13	BAMCEAST	POND7	DIRECT
14	BA700W	POND7	DIRECT
15	POND7	JUNCTION1	ORIFICE
16	JUNCTION1	OUTFALL	PIPE

Node	Name	Node	Туре
0	OUTFALL	STAGI	NG
1	BA700SE	SUBAR	REA
2	BAMCSOUTH	SUBAR	REA
3	BAOFF3	SUBAR	REA
4	BAOFF4	SUBAR	REA
5	BAOFF1	SUBAR	REA
6	BAOFF2	SUBAR	REA
7	BARAMPD	SUBAR	REA
8	BAOFFC	SUBAR	REA
9	BAOVMCE	SUBAR	REA
10	BA700SW	SUBAR	REA
11	BAPOND7	SUBAR	REA
12	INF6PR	INFLO	W
13	BA700MC	SUBAR	EA
14	BAMCEAST	SUBAR	EA
15	BA700W	SUBAR	EA
16	POND7	POND	
17	JUNCTION1	JUNCI	ION



Node	Name	Maximum	CFS Inflow	Maximum CFS Outflow
0	OUTFALL *	208.64 @	5.90 Hours	0.00 @ 0.00 Hours
1	BA700SE	18.23 @	4.50 Hours	18.23 @ 4.50 Hours
2	BAMCSOUTH	9.35 @	5.40 Hours	`9.35 @ 5.40 Hours
3	BAOFF3	2.39 @	4.90 Hours	2.39 @ 4.90 Hours
4	BAOFF4	2.85 @	4.50 Hours	2.85 @ 4.50 Hours
5	BAOFF1	2.42 @	5.40 Hours	2.42 @ 5.40 Hours
6	BAOFF2	33.89 @	5.40 Hours	33.89 @ 5.40 Hours
7	BARAMPD	18.50 @	4.80 Hours	18.50 @ 4.80 Hours
8	BAOFFC	38.01 @	6.60 Hours	38.01 @ 6.60 Hours
9	BAOVMCE	15.67 @	4.00 Hours	15.67 @ 4.00 Hours
10	BA700SW	19.06 @	3.90 Hours	19.06 @ 3.90 Hours
11	BAPOND7	37.25 @	4.00 Hours	37.25 @ 4.00 Hours
12	INF6PR	19.32 @	9.20 Hours	19.32 @ 9.20 Hours
13	BA700MC	33.60 @	4.10 Hours	33.60 @ 4.10 Hours
14	BAMCEAST	18.75 @	4.90 Hours	18.75 @ 4.90 Hours
15	BA700W	36.52 @	4.10 Hours	36.52 @ 4.10 Hours
16	POND7	212.31 @	4.20 Hours	147.47 @ 5.60 Hours
17	JUNCTION1	147.47 @	5.60 Hours	147.56 @ 5.60 Hours

* POST-DEVELOPED RATE (100 YR/8 HR)
COMPOSITE RATE FOR BASINS 600 & 700.





Node	Name	Node Type	Min El.	at Hr.	Max El.	at Hr.	Flooded
0	OUTFALL	STAGING	44.50	0.00	45.80	16.00	NO
1	BA700SE	SUBAREA	52.00	0.00	52.00	0.00	NO
2	BAMCSOUTH	SUBAREA	52.00	0.00	52.00	0.00	NO
3	BAOFF3	SUBAREA	52.00	0.00	52.00	0.00	NO
4	BAOFF4	SUBAREA	52.00	0.00	52.00	0.00	NO
5	BAOFF1	SUBAREA	52.00	0.00	52.00	0.00	NO
6	BAOFF2	SUBAREA	52.00	0.00	52.00	0.00	NO
7	BARAMPD	SUBAREA	52.00	0.00	52.00	0.00	NO
8	BAOFFC	SUBAREA	52.00	0.00	52.00	0.00	NO
9	BAOVMCE	SUBAREA	52.00	0.00	52.00	0.00	NO
10	BA700SW	SUBAREA	52.00	0.00	52.00	7451623	NO
11	BAPOND7	SUBAREA	48.00	0.00	48.00	0.00	ИО
12	INF6PR	INFLOW	48.00	0.00	48.00	0.00	NO
13	BA700MC	SUBAREA	52.00	0.00	52.00	0.00	NO
14	BAMCEAST	SUBAREA	52.00	0.00	52.00	0.00	NO
15	BA700W	SUBAREA	52.00	0.00	52.00	0.00	NO
16	POND7	POND	47.00	0.00	49.86	5.60	NO
17	JUNCTION1	JUNCTION	44.50	0.00	46.00	5.60	NO



Report on Paths of Project POND7.

Upper Node 012, IN	RECT F6PR TFALL
DIRECT	INPUT ID 745107959 T0 CFS 0.00 T0 CF 0.00 MAX IN 19.32 MIN IN 0.00 MAX OUT. 19.32 MIN OUT. 0.00
HW PE/KE NO TW PE/KE NO HW EL 48.000 TW EL 51.000	FWD K 0.00 REV K 0.00 FWD X 0.00 REV X 0.00
	RECT 700SE ND7
DIRECT	INPUT ID 745108084 T0 CFS 0.00 T0 CF 0.00 MAX IN 18.23 MIN IN 0.00 MAX OUT. 18.23 MIN OUT. 0.00
HW PE/KE NO TW PE/KE YES HW EL 52.000	FWD K 0.00 REV K 0.00 FWD X 0.00
TW EL 51.000	



Path..... 002, DIRECT
Upper Node 002, BAMCSOUTH
Lower Node 000, OUTFALL

DIRECT	TO O MAX MIN MAX	UT ID CFS CF IN OUT.	0.00 9.35 0.00
HW PE/KE TW PE/KE HW EL TW EL	REV FWD	K K X	0.00 0.00 0.00 0.00

Path..... 003, DIRECT Upper Node 003, BAOFF3 Lower Node 016, POND7

DIRECT		TO TO MAX MIN MAX	UT ID CFS CF IN OUT. OUT.	0.00
HW PE/KE TW PE/KE HW EL TW EL	YES	REV FWD		0.00 0.00 0.00 0.00



Path..... 004, DIRECT Upper Node 004, BAOFF4 Lower Node 016, POND7 DIRECT.. -INPUT ID 745108087 TO CFS.. 0.00 T0 CF... 0.00 MAX IN.. 2.85 MIN IN.. 0.00 MAX OUT. 2.85 MIN OUT. 0.00 HW PE/KE NO FWD K... 0.00 TW PE/KE YES REV K... 0.00 HW EL... 52.000 FWD X... TW EL... 51.000 REV X... 0.00 0.00 Path..... 005, DIRECT Upper Node 005, BAOFF1 Lower Node 016, POND7 DIRECT.. -INPUT ID 745108089 TO CFS.. 0.00 T0 CF... 0.00 MAX IN.. 2.42 MIN IN.. 0.00 MAX OUT. 2.42 MIN OUT. 0.00 TW PE/KE YES PEU F... 0.00

REV K...

51.000 REV X...

HW EL... 52.000 FWD X...
TW EL... 51.000 REV X

TW EL...

0.00

0.00

0.00



Path..... 006, DIRECT Upper Node 006, BAOFF2 Lower Node 016, POND7 DIRECT.. -INPUT ID 745108090 0.00 TO CFS.. T0 CF... 0.00 MAX IN.. 33.89 MIN IN.. 0.00 MAX OUT. 33.89 MIN OUT. 0.00 FWD K... HW PE/KE NO 0.00 0.00 TW PE/KE YES REV K... 0.00 HW EL... 52.000 FWD X... 0.00 51.000 REV X... TW EL...

Path..... 007, DIRECT Upper Node 007, BARAMPD Lower Node 016, POND7

DIRECT	INPUT ID TO CFS TO CF MAX IN MIN IN MAX OUT.	0.00 18.50 0.00
	FWD K REV K FWD X REV X	0.00 0.00 0.00 0.00



Path..... 008, DIRECT Upper Node 008, BAOFFC Lower Node 000, OUTFALL DIRECT.. -INPUT ID 745108093 TO CFS.. 0.00 T0 CF... 0.00 MAX IN.. 38.01 MIN IN.. 0.00 MAX OUT. 38.01 MIN OUT. 0.00 HW PE/KE NO FWD K... 0.00 REV K... TW PE/KE NO 0.00 HW EL... 52.000 FWD X... 0.00 TW EL... 51.000 REV X... 0.00 Path..... 009, DIRECT Upper Node 009, BAOVMCE Lower Node 016, POND7 DIRECT.. -INPUT ID 745108094 TO CFS.. 0.00 T0 CF... 0.00 MAX IN.. 15.67 MIN IN.. 0.00 MAX OUT. 15.67 MIN OUT. 0.00 HW PE/KE NO FWD K... 0.00 TW PE/KE YES REV K... 0.00 HW EL... 52.000 FWD X... 0.00 TW EL... 51.000 REV X... 0.00



Path..... 010, DIRECT Upper Node 013, BA700MC Lower Node 016, POND7

DIRECT		INP	JT ID	745108096
		TO	CFS	0.00
		TO	CF	0.00
		MAX	IN	33.60
		MIN	IN	0.00
		MAX	OUT.	
		MIN	OUT.	0.00
HW PE/KE	NO	FWD	к	0.00
TW PE/KE		REV	К	0.00
HW EL		000 FWD	х	0.00
TW EL	51.	000 REV	х	0.00

Path..... 011, DIRECT Upper Node 010, BA700SW Lower Node 016, POND7

DIRECT	 INPU	JΤ	ID	745108098
	TO C	CFS	S	0.00
	TO C	CF.		0.00
	MAX	IN	1	19.06
	MIN	IN	1	0.00
	MAX	OU	JT.	19.06
	MIN	OU	JT.	0.00

HW PE/KE NO FWD K... 0.00
TW PE/KE YES REV K... 0.00
TW EL... 52.000 FWD X... 0.00
TW EL... 51.000 REV X... 0.00



Path..... 012, DIRECT Upper Node 011, BAPOND7 Lower Node 016, POND7 INPUT ID 745167577 DIRECT.. -TO CFS.. 0.00 TO CF... 0.00 37.25 MIN IN.. 0.00 MAX OUT. 37.25 MIN OUT. 0.00 FWD K... 0.00 HW PE/KE NO TW PE/KE YES REV K... 0.00 48.000 FWD X... 51.000 REV X... HW EL... 0.00 0.00 TW EL...

Path..... 013, DIRECT Upper Node 014, BAMCEAST Lower Node 016, POND7

DIRECT		TO O MAX MIN	JT ID CFS CF IN	18.75 0.00
			OUT.	0.00
HW PE/KE TW PE/KE HW EL TW EL	YES	REV FWD		0.00 0.00 0.00 0.00



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Path..... 014, DIRECT Upper Node 015, BA700W Lower Node 016, POND7 INPUT ID 745193946 DIRECT.. -TO CFS.. 0.00 TO CF... 0.00 36.52 MAX IN.. MIN IN.. 0.00 36.52 MAX OUT. MIN OUT. 0.00 FWD K... 0.00 HW PE/KE NO REV K... 0.00 TW PE/KE YES HW EL... 52.000 FWD X... 0.00 TW EL... 51.000 REV X... 0.00 Path..... 015, ORIFICE Upper Node 016, POND7 Lower Node 017, JUNCTION1 47.450 INPUT ID 753035803 CREST EL LENGTH.. 6.580 TO CFS.. WIDTH... 3.000 TO CF... SHAPE... RECTANGLE MAX IN.. WIDTH... 0.00 147.47 100.000 MIN IN.. 0.00 PCT OPEN 3.200 MAX OUT. 147.47 WEIR C.. ORFC C.. 0.600 MIN OUT. 0.00 HANDLE.. 0.00 HW PE/KE YES FWD K... REV K... TW PE/KE NO 0.00 HW EL... 0.00 51.000 FWD X... 0.00 TW EL... 51.000 REV X...



Upper Nod	. 016, PII e 017, JUN e 000, OUT	NCTION1	
LEN, FT. MANN N RISE, FT SPAN, FT INLET INVERT ENT KE OUTLET INVERT ENT KE BW STEPS	0.012 4.000 4.000	T0 CFS T0 CF MAX IN MIN IN	0.00 147.56 0.00 147.56
HW PE/KE TW PE/KE MAX HW MAX TW			0.00





TIME, HRS	1.000	PE TO KE. STAGE EL. STAGE EL.	44.500 44.500	INITIAL STORAGE, CUBIC FEET	NO 44.50 0.00
TIME, HRS	4.000 5.000 6.000 7.000 8.000 16.000	STAGE EL. STAGE EL. STAGE EL. STAGE EL. STAGE EL. STAGE EL. STAGE EL.	44.600 44.700 44.800 44.900 45.000 45.800 45.300	MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS.	45.80 0.00 0.00 45.30 16.00
X COORD		STAGE EL. STAGE TO. Y COORD	44.500	PEAK NODAL INTAKE, CFS TIME OF PEAK INTAKE, HOURS PEAK NODAL OUTPUT, CFS TIME OF PEAK OUTPUT, HOURS POINTS OUT OF TOLERANCE MAXIMUM STAGE ERROR	208.64 5.90 0.00 0.00

Node 001	, SUBAREA	TP.		
FILE NAME BA70 INPUT ID# 7451		EL. 52.000	INPUT ID	NO
ALT TYPE. RNFO	002		INITIAL STAGE ELEVATION	
RUN, HRS. 1	5.200		INITIAL STORAGE, CUBIC FEET	0.00
DT, HRS	0.100	1	MAXIMUM STAGE REACHED	52.00
DATA PTS. 15	3	1	MINIMUM STAGE REACHED	
STORM FDOT	8	1	MAXIMUM GROSS STORAGE, CF	
HOURS	8.000	1	MAXIMUM DETENTION STORAGE, CF	0.00
RAINFALL.			FINAL STAGE ELEVATION	
EXCESS	7.744	1	TIME OF MAXIMUM STAGE, HOURS.	
ACREAGE	8.980		TIME OF MINIMUM STAGE, HOURS.	0.00
TC, HRS	1.193	1		
TP, HRS	4.500			
PEAK CFS. 1	8.234	1	PEAK NODAL INTAKE, CFS	
ACFT VOL.	5.793	1	TIME OF PEAK INTAKE, HOURS	4.50
EXECUTED. YES			PEAK NODAL OUTPUT, CFS	
			TIME OF PEAK OUTPUT, HOURS	
BASE CFS.	0.000		POINTS OUT OF TOLERANCE	
X COORD	Y COO!	RD	MAXIMUM STAGE ERROR	0.00



Node 002, SUE	AREA		
FILE NAME BAMCSOUH	FLOOD EL. 52.0		
INPUT ID# 745168952		- FLOOD ELEVATION REACHED N	
ALT TYPE. RNF0002		INITIAL STAGE ELEVATION	52.00
RUN, HRS. 22.200)	INITIAL STORAGE, CUBIC FEET	0.00
DT. HRS 0.100)	MAXIMUM STAGE REACHED	52.00
DATA PTS. 223		MINIMUM STAGE REACHED	52.00
STORM FDOT 8		MAXIMUM GROSS STORAGE, CF	0.00
HOURS 8.000)	MAXIMUM DETENTION STORAGE, CF	0.00
HOURS 8.000)	MAXIMUM DETENTION STORAGE, CF	0.00
HOURS 8.000 RAINFALL. 9.200)	FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS.	52.00
EXCESS 7.622	2	TIME OF MAXIMUM STAGE, HOURS.	0.00
EXCESS 7.622 ACREAGE 7.100		TIME OF MINIMUM STAGE, HOURS.	0.00
TC. HRS 2.362	2		
TC, HRS 2.362 TP, HRS 5.400			
PEAK CFS. 9.354		PEAK NODAL INTAKE, CFS	9.35
ACFT VOL. 4.508		TIME OF PEAK INTAKE, HOURS	5.40
EXECUTED. YES		PEAK NODAL OUTPUT, CFS	9.35
EXECUTED: 125	-	TIME OF PEAK OUTPUT, HOURS	5.40
BASE CFS. 0.000	,	POINTS OUT OF TOLERANCE	0
X COORD.	Y COORD	MAXIMUM STAGE ERROR	0.00
X COORD	Y COORD		0.00
X COORD Node 003, SUI	Y COORD	MAXIMUM STAGE ERROR	45162419
Node 003, SUI	BAREA FLOOD EL. 52.0	MAXIMUM STAGE ERROR	45162419
X COORD Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162416	BAREA FLOOD EL. 52.0	00 INPUT ID	45162419
X COORD Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162416 ALT TYPE. RNF0002	BAREA FLOOD EL. 52.0	00 INPUT ID	45162419 O 52.00
X COORD Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162410 ALT TYPE. RNF0002 RUN, HRS. 18.300	BAREA FLOOD EL. 52.0	00 INPUT ID	45162419 0 52.00 0.00 52.00
X COORD Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162410 ALT TYPE. RNF0002 RUN, HRS. 18.300	BAREA FLOOD EL. 52.0	00 INPUT ID	45162419 52.00 0.00 52.00
Node 003, SUR FILE NAME BAOFF3 INPUT ID# 745162416 ALT TYPE. RNF0002 RUN, HRS. 18.300 DT, HRS. 0.100 DATA PTS. 184	BAREA FLOOD EL. 52.0	00 INPUT ID	45162419 0 52.00 0.00 52.00
Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162416 ALT TYPE. RNF0002 RUN, HRS. 18.300 DT, HRS. 0.100 DATA PTS. 184 STORM FDOT_8	BAREA FLOOD EL. 52.0	00 INPUT ID	45162419 0 52.00 0.00 52.00
X COORD Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162410 ALT TYPE. RNF0002 RUN, HRS. 18.300 DT, HRS. 0.100 DATA PTS. 184 STORM FDOT 8	BAREA FLOOD EL. 52.0	00 INPUT ID	45162419 0 52.00 0.00 52.00
X COORD Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162410 ALT TYPE. RNF0002 RUN, HRS. 18.300 DT, HRS. 0.100 DATA PTS. 184 STORM FDOT 8	BAREA FLOOD EL. 52.0	MAXIMUM STAGE ERROR	45162415 O 52.00 0.00 52.00 0.00 0.00 0.00 52.00
Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162410 ALT TYPE. RNF0002 RUN, HRS. 18.300 DT, HRS. 0.100 DATA PTS. 184 STORM FDOT 8	BAREA FLOOD EL. 52.0	MAXIMUM STAGE ERROR	45162415 O 52.00 0.00 52.00 0.00 0.00 0.00 52.00
X COORD Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162410 ALT TYPE. RNF0002 RUN, HRS. 18.300 DT, HRS. 0.100 DATA PTS. 184 STORM FDOT 8	BAREA FLOOD EL. 52.0	MAXIMUM STAGE ERROR	45162415 O 52.00 0.00 52.00 0.00 0.00 0.00 52.00
X COORD Node 003, SUFFILE NAME BAOFF3 INPUT ID# 745162416 ALT TYPE. RNF0002 RUN, HRS. 18.300 DT, HRS. 0.100 DATA PTS. 184 STORM FDOT_8 HOURS 8.000 RAINFALL. 9.200 EXCESS 7.744 ACREAGE 1.450 TC. HRS 1.700	BAREA FLOOD EL. 52.0	MAXIMUM STAGE ERROR	45162415 O 52.00 0.00 52.00 0.00 0.00 0.00 52.00
X COORD Node 003, SUFFILE NAME BAOFF3 INPUT ID# 745162416 ALT TYPE. RNF0002 RUN, HRS. 18.300 DT, HRS. 0.100 DATA PTS. 184 STORM FDOT 8 HOURS 8.000 RAINFALL 9.200 EXCESS 7.744 ACREAGE 1.450 TC, HRS 1.700 TP, HRS 4.900	BAREA FLOOD EL. 52.0	MAXIMUM STAGE ERROR	45162415 0 52.00 52.00 52.00 0.00 0.00 0.00 0.00
X COORD Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162416 ALT TYPE. RNF0002 RUN, HRS. 18.300 DT, HRS. 0.100 DATA PTS. 184 STORM FDOT 8 HOURS 8.000 RAINFALL 9.200 EXCESS 7.744 ACREAGE. 1.450 TC, HRS 1.700 TP, HRS 4.900	BAREA FLOOD EL. 52.0	MAXIMUM STAGE ERROR	45162415 O 52.00 0.00 52.00 0.00 0.00 0.00 0.00
X COORD Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162416 ALT TYPE. RNF0002 RUN, HRS. 0.100 DATA PTS. 184 STORM FDOT 8 HOURS 8.000 RAINFALL 9.200 EXCESS 7.744 ACREAGE 1.450 TC, HRS 1.700 TP, HRS 4.900 PEAK CFS. 2.399 ACFT VOL. 0.933	BAREA FLOOD EL. 52.0	MAXIMUM STAGE ERROR	45162415 O 52.00 0.00 52.00 0.00 0.00 52.00 0.00 0.
X COORD Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162416 ALT TYPE. RNF0002 RUN, HRS. 0.100 DATA PTS. 184 STORM FDOT 8 HOURS 8.000 RAINFALL 9.200 EXCESS 7.744 ACREAGE 1.450 TC, HRS 1.700 TP, HRS 4.900 PEAK CFS. 2.399 ACFT VOL. 0.933	BAREA FLOOD EL. 52.0	MAXIMUM STAGE ERROR	45162415 0 52.00 52.00 52.00 0.00 0.00 0.00 0.00 2.35 4.90 2.35
X COORD Node 003, SUI FILE NAME BAOFF3 INPUT ID# 745162416 ALT TYPE. RNF0002 RUN, HRS. 18.300 DT, HRS. 0.100 DATA PTS. 184 STORM FDOT_8 HOURS 8.000 RAINFALL. 9.200 EXCESS 7.744 ACREAGE 1.455 TC, HRS 1.700 TP, HRS 4.900 PEAK CFS. 2.390 ACFT VOL. 0.930	BAREA FLOOD EL. 52.0	MAXIMUM STAGE ERROR	45162415 O 52.00 0.00 52.00 0.00 0.00 52.00 0.00 0.
X COORD Node 003, SUFFILE NAME BAOFF3 INPUT ID# 745162416 ALT TYPE. RNF0002 RUN, HRS. 18.300 DT, HRS. 0.100 DATA PTS. 184 STORM FDOT_8 HOURS 8.000 RAINFALL. 9.200 EXCESS 7.744 ACREAGE 1.450 TC, HRS 1.700 TP, HRS 4.900	BAREA FLOOD EL. 52.0	MAXIMUM STAGE ERROR	45162419 52.00 0.00 52.00 0.00 52.00 0.00 2.33 4.90 2.33 4.90



Node	. 004, SUB	AREA			
FILE NAME	BAOFF4	FLOOD EL.	52.000	INPUT ID	745162443
	745162441			FLOOD ELEVATION REACHED	NO
ALT TYPE.				INITIAL STAGE ELEVATION	
	15.000			INITIAL STORAGE, CUBIC FEET	0.00
DT UDS	0.100			MAXIMUM STAGE REACHED	52.00
DATA PTS.	151			MINIMUM STAGE REACHED	52.00
STORM	EDOT 8			MAXIMUM GROSS STORAGE, CF	0.00
HOURS	_			MAXIMUM DETENTION STORAGE, CF	0.00
				FINAL STAGE ELEVATION	52.00
EXCESS.	9.200 7.006			TIME OF MAXIMUM STAGE, HOURS.	0.00
ACCESS	1.510			TIME OF MINIMUM STAGE, HOURS.	0.00
ACREAGE	1 152		1		
TC, HRS	1.152 4.500				
TP, HRS	2.500			PEAK NODAL INTAKE, CFS	2.85
PEAR CFS.	2.846 0.881			TIME OF PEAK INTAKE, HOURS	
EXECUTED.			- 1	PEAK NODAL OUTPUT, CFS	
EXECUTED.	IES			TIME OF PEAK OUTPUT, HOURS	4.50
	0.000			POINTS OUT OF TOLERANCE	0
BASE CFS.		Y COORD		MAXIMUM STAGE ERROR	
X COORD		I COOKD		MARTHON DIAGE ENGINEER.	
Node	. 005, SUB	AREA			
		AREA	52.000	INPUT ID	
FILE NAME		FLOOD EL.	52.000	FLOOD ELEVATION REACHED	NO
FILE NAME INPUT ID#	BAOFF1 745162473	FLOOD EL.	52.000	FLOOD ELEVATION REACHED	NO 52.00
FILE NAME INPUT ID# ALT TYPE. RUN, HRS.	BAOFF1 745162473 RNF0002 21.200	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET	NO 52.00
FILE NAME INPUT ID# ALT TYPE. RUN, HRS.	BAOFF1 745162473 RNF0002 21.200	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED	52.00 0.00 52.00
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS	BAOFF1 745162473 RNF0002 21.200 0.100	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED	52.00 52.00 52.00
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS DATA PTS.	BAOFF1 745162473 RNF0002 21.200 0.100 213	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF	52.00 0.00 52.00 52.00
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM	BAOFF1 745162473 RNF0002 21.200 0.100 213	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF	52.00 0.00 52.00 52.00
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM	BAOFF1 745162473 RNF0002 21.200 0.100 213 FDOT_8 8.000	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION	NO 52.00 0.00 52.00 0.00 0.00 52.00
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL.	BAOFF1 745162473 RNF0002 21.200 0.100 213 FDOT_8 8.000 9.200	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS.	NO 52.00 0.00 52.00 0.00 0.00 52.00
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL.	BAOFF1 745162473 RNF0002 21.200 0.100 213 FDOT_8 8.000 9.200	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION	NO 52.00 0.00 52.00 0.00 0.00 52.00
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL.	BAOFF1 745162473 RNF0002 21.200 0.100 213 FDOT_8 8.000 9.200	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS.	NO 52.00 0.00 52.00 0.00 0.00 52.00
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL.	BAOFF1 745162473 RNF0002 21.200 0.100 213 FDOT_8 8.000 9.200	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS.	NO 52.00 0.00 52.00 0.00 0.00 0.00 0.00 0.
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM. HOURS RAINFALL. EXCESS. ACREAGE. TC, HRS. TP, HRS.	BAOFF1 745162473 RNF0002 21.200 0.100 213 FDOT_8 8.000 9.200 5.762 2.310 2.191 5.400	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS.	NO 52.00 52.00 52.00 52.00 60.
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL. EXCESS ACREAGE TP, HRS PEAK CFS.	BAOFF1 745162473 RNF0002 21.200 0.100 213 FDOT_8 8.000 9.200 5.762 2.310 2.191 5.400	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS.	NO 52.00 0.00 52.00 0.00 0.00 0.00 0.00 0.
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM RAINFALL. EXCESS ACREAGE TC, HRS PEAK CFS. ACFT VOL.	BAOFF1 745162473 RNF0002 21.200 0.100 213 FDOT_8 8.000 9.200 5.762 2.310 2.191 5.400 2.418 1.109	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF MAXIMUM DETENTION STORAGE, CF TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS. PEAK NODAL INTAKE, CFS	NO 52.00 0.00 52.00 52.00 0.00 0.00 0.00 0.
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM. HOURS RAINFALL. EXCESS. ACREAGE. TC, HRS. TP, HRS.	BAOFF1 745162473 RNF0002 21.200 0.100 213 FDOT_8 8.000 9.200 5.762 2.310 2.191 5.400 2.418 1.109	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS. PEAK NODAL INTAKE, CFS TIME OF PEAK INTAKE, HOURS	NO 52.00 0.00 52.00 52.00 0.00 0.00 0.00 0.
FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM RAINFALL. EXCESS ACREAGE TC, HRS PEAK CFS. ACFT VOL.	BAOFF1 745162473 RNF0002 21.200 0.100 213 FDOT_8 8.000 9.200 5.762 2.310 2.191 5.400 2.418 1.109	FLOOD EL.	52.000	FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS. PEAK NODAL INTAKE, CFS TIME OF PEAK INTAKE, HOURS PEAK NODAL OUTPUT, CFS	NO 52.00 0.00 52.00 0.00 0.00 0.00 0.00 2.42 5.40 2.42



Node	. 006, SUB	AREA			
FILE NAME		FLOOD EL.	52.000	INPUT ID	
INPUT ID#	745162515			FLOOD ELEVATION REACHED	
ALT TYPE.				INITIAL STAGE ELEVATION	52.00
RUN, HRS.				INITIAL STORAGE, CUBIC FEET	
DT. HRS	0.100			MAXIMUM STAGE REACHED	52.00
DATA PTS.	220		i	MINIMUM STAGE REACHED	52.00
STORM				MAXIMUM GROSS STORAGE, CF	0.0
	8.000			MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS.	0.0
	9.200			FINAL STAGE ELEVATION	52.0
EXCESS	7.376			TIME OF MAXIMUM STAGE, HOURS.	0.0
ACREAGE	7.376 26.180		1	TIME OF MINIMUM STAGE, HOURS.	0.0
TC HPS	2.312				
TD HDS	2.312 5.400				
PEAK CFS.	33.894			PEAK NODAL INTAKE, CFS	33.8
	16.086			TIME OF PEAK INTAKE, HOURS	5 4
EXECUTED.				PEAK NODAL OUTPUT, CFS	
EXECUTED.	165			TIME OF PEAK OUTPUT, HOURS	5.4
DACE CEC	0.000			POINTS OUT OF TOLERANCE	0
		Y COORD		MAXIMUM STAGE ERROR	
				PRATION STAGE BROKE	
	. 007, SUB			FRANKON STAGE ERROR	
Node	. 007, SUB	AREA	52.000	INPUT ID	74516211
FILE NAME	. 007, SUB	AREA	52.000	INPUT ID	745162110 NO
Node FILE NAME INPUT ID# ALT TYPE.	. 007, SUB BARAMPD 745162107 RNF0002	AREA	52.000	INPUT ID	74516211 NO 52.0
Node FILE NAME INPUT ID# ALT TYPE.	. 007, SUB BARAMPD 745162107 RNF0002	AREA	52.000	INPUT ID	74516211 NO 52.0 0.0
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS.	BARAMPD 745162107 RNF0002 17.500 0.100	AREA	52.000	INPUT ID	74516211 NO 52.0 0.0 52.0
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS.	. 007, SUBA BARAMPD 745162107 RNF0002 17.500 0.100	AREA	52.000	INPUT ID	74516211 NO 52.0 0.0 52.0 52.0
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS.	. 007, SUBA BARAMPD 745162107 RNF0002 17.500 0.100	AREA	52.000	INPUT ID	74516211 NO 52.0 0.0 52.0 52.0
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS.	. 007, SUBA BARAMPD 745162107 RNF0002 17.500 0.100	AREA	52.000	INPUT ID	74516211 NO 52.0 0.0 52.0 52.0 0.0
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM	. 007, SUBA BARAMPD 745162107 RNF0002 17.500 0.100 176 FDOT_8 8.000	AREA	52.000	INPUT ID	74516211 NO 52.0 0.0 52.0 0.0 0.0 52.0
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM	. 007, SUBA BARAMPD 745162107 RNF0002 17.500 0.100 176 FDOT_8 8.000	AREA	52.000	INPUT ID	74516211 NO 52.0 0.0 52.0 0.0 0.0 52.0
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM	. 007, SUBA BARAMPD 745162107 RNF0002 17.500 0.100 176 FDOT_8 8.000	AREA	52.000	INPUT ID	74516211 NO 52.0 0.0 52.0 0.0 0.0 0.0 52.0
Node FILE NAME INPUT ID# ALT TYPE. ALT TYPE. DATA PTS. DATA PTS. STORM HOURS RAINFALL. ACREAGE.	BARAMPD 745162107 RNF0002 17.500 0.100 176 FDOT_8 8.000 9.200 7.622 10.870	AREA	52.000	INPUT ID	74516211 NO 52.0 0.0 52.0 0.0 0.0 0.0 52.0
Node FILE NAME INPUT ID# ALT TYPE. DT, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL. ACREAGE.	BARAMPD 745162107 RNF0002 17.500 0.100 176 FDOT_8 8.000 9.200 7.622 10.870	AREA	52.000	INPUT ID	74516211 NO 52.0 0.0 52.0 0.0 0.0 52.0 0.0
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM RAINFALL. EXCESS ACREAGE TC, HRS.	BARAMPD 745162107 RNF0002 17.500 0.100 176 FDOT_8 8.000 9.200 7.622 10.870 1.579 4.800	AREA	52.000	INPUT ID	74516211 NO 52.0 0.0 52.0 0.0 0.0 52.0 0.0
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM RAINFALL. EXCESS ACREAGE TC, HRS. TP, HRS. PEAK CFS.	BARAMPD 745162107 RNF0002 17.500 0.100 176 FDOT_8 8.000 9.200 7.622 10.870 1.579 4.800 18.496	AREA	52.000	INPUT ID FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS.	74516211 NO 52.0 0.0 52.0 0.0 0.0 52.0 0.0 0.0
Node FILE NAME INPUT ID# ALT TYPE. TOT, HRS DATA PTS. STORM HOURS RAINFALL. EXCESS ACREAGE TC, HRS PEAK CFS. ACFT VOL.	BARAMPD 745162107 RNF0002 17.500 0.100 176 FDOT_8 8.000 9.200 7.622 10.870 1.579 4.800 18.496 6.902	AREA	52.000	INPUT ID	745162111 NO 52.00 52.00 52.00 0.00 52.00 0.00 18.55 4.8
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS DATA PTS. STORM HOURS RAINFALL. EXCESS ACREAGE TC, HRS TP, HRS PEAK CFS. ACFT VOL.	BARAMPD 745162107 RNF0002 17.500 0.100 176 FDOT_8 8.000 9.200 7.622 10.870 1.579 4.800 18.496 6.902	AREA	52.000	INPUT ID	745162111 NO 52.00 0.00 52.00 0.00 52.00 0.00 0.00 18.55 4.88 18.55
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL EXCESS ACREAGE. TC, HRS TP, HRS PEAK CFS. ACFT VOL. EXECUTED.	BARAMPD 745162107 RNF0002 17.500 0.100 176 FDOT_8 8.000 9.200 7.622 10.870 1.579 4.800 18.496 6.902	AREA	52.000	INPUT ID	745162111 NO 52.00 0.00 52.00 0.00 52.00 0.00 0.00 18.55 4.88 18.5



FILE NAME	BAOFFC	FLOOD	EL.		52.000			436
INPUT ID#	745168431			_		FLOOD ELEVATION REACHED		
ALT TYPE.	RNF0002					INITIAL STAGE ELEVATION		
RUN, HRS.	24.200					INITIAL STORAGE, CUBIC FEET		
DT, HRS						MAXIMUM STAGE REACHED	52	.00
DATA PTS.						MINIMUM STAGE REACHED	52	.00
STORM						MAXIMUM GROSS STORAGE, CF	0	.00
HOURS						MAXIMUM DETENTION STORAGE, CF	0	.00
RAINFALL.						FINAL STAGE ELEVATION	52	.00
EXCESS		İ				TIME OF MAXIMUM STAGE, HOURS.	0	.00
ACREAGE						TIME OF MINIMUM STAGE, HOURS.	0	.00
TC, HRS								
TP, HRS								
PEAK CFS.						PEAK NODAL INTAKE, CFS	38	.01
ACFT VOL.						TIME OF PEAK INTAKE, HOURS	6	.60
EXECUTED.						PEAK NODAL OUTPUT, CFS	38	.01
						TIME OF PEAK OUTPUT, HOURS	6	.60
BASE CFS.	0.000					POINTS OUT OF TOLERANCE	0	
X COORD	,,,,,	Y COO	RD			MAXIMUM STAGE ERROR	0	.00

Node	. 009, SUB	AREA			
			L. 52.000	INPUT ID 7	
INPUT ID#	745162277			FLOOD ELEVATION REACHED	
ALT TYPE.	RNF0002			INITIAL STAGE ELEVATION	
RUN, HRS.	10.700			INITIAL STORAGE, CUBIC FEET	0.00
DT, HRS	0.100			MAXIMUM STAGE REACHED	
DATA PTS.	108			MINIMUM STAGE REACHED	52.00
STORM	FDOT 8			MAXIMUM GROSS STORAGE, CF	0.00
HOURS	8.000			MAXIMUM DETENTION STORAGE, CF	0.00
	9.200			FINAL STAGE ELEVATION	52.00
	8.960			TIME OF MAXIMUM STAGE, HOURS.	0.00
ACREAGE				TIME OF MINIMUM STAGE, HOURS.	0.00
TC, HRS					
	4.000				
	15.674			PEAK NODAL INTAKE, CFS	15.67
	3.441			TIME OF PEAK INTAKE, HOURS	
EXECUTED.				PEAK NODAL OUTPUT, CFS	
EXECUTED.	120			TIME OF PEAK OUTPUT, HOURS	
BASE CES	0.000			POINTS OUT OF TOLERANCE	
X COORD		Y COORD		MAXIMUM STAGE ERROR	



Node 010, SU	BAREA		
FILE NAME BA700SW INPUT ID# 74516232 ALT TYPE. RNF0002 RUN, HRS. 10.40 DT, HRS. 0.10 DATA PTS. 105		INPUT ID	NO 52.00 0.00 52.00
STORM FDOT_8 HOURS 8.00 RAINFALL 9.20 EXCESS. 8.47 ACREAGE 5.52 TC, HRS. 0.38) ;)	MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS.	0.00 0.00 52.00 0.00
TP, HRS 3.90 PEAK CFS. 19.06 ACFT VOL. 3.89 EXECUTED. YES BASE CFS. 0.00 X COORD	2	PEAK NODAL INTAKE, CFS TIME OF PEAK INTAKE, HOURS PEAK NODAL OUTPUT, CFS TIME OF PEAK OUTPUT, HOURS POINTS OUT OF TOLERANCE MAXIMUM STAGE ERROR.	3.90 19.06

Node 011, SUB	AREA	
INPUT ID# 745167617 ALT TYPE. RNF0002 RUN, HRS. 11.100 DT, HRS. 0.100 DATA PTS. 112 STORM FDOT_8 HOURS 8.000 RAINFALL 9.200 EXCESS 8.476 ACREAGE. 11.590 TC, HRS 0.500		INPUT ID
TP, HRS 4.000 PEAK CFS. 37.247 ACFT VOL. 8.184 EXECUTED. YES BASE CFS. 0.000 X COORD		PEAK NODAL INTAKE, CFS



Node	012, INF	LOW			
FILE NAME	INF600PR		48.000		
INPUT ID#	745107432	PE TO KE.	NO	FLOOD ELEVATION REACHED	
FILE TYPE				INITIAL STAGE ELEVATION	
RUN, HRS. DT, HRS	24.000		1	INITIAL STORAGE, CUBIC FEET	
				MAXIMUM STAGE REACHED	48.00
DATA PTS.			- 1	MINIMUM STAGE REACHED	
FROM FILE	INF600PR		1	MAXIMUM GROSS STORAGE, CF	0.00
RUN ID#			1	MAXIMUM DETENTION STORAGE, CF	
FROM PATH			1	FINAL STAGE ELEVATION	48.00
PATH TYPE			- 1	TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS.	0.00
				TIME OF MINIMUM STAGE, HOURS.	0.00
TP, HOURS	9.200				
TP, HOURS	19.315			PEAK NODAL INTAKE, CFS	
ACFT VOL.	25.981			TIME OF PEAK INTAKE, HOURS	9.20
READY			1	PEAK NODAL OUTPUT, CFS	19.32
				TIME OF PEAK OUTPUT, HOURS	9.20
	0.000		1	POINTS OUT OF TOLERANCE	0
BASE CFS.					
BASE CFS.		Y COORD		MAXIMUM STAGE ERROR	0.00
X COORD		Y COORD		MAXIMUM STAGE ERROR	0.00
X COORD	013, SUB	Y COORD	52.000	MAXIMUM STAGE ERROR	745193985
X COORD Node	013, SUB	AREA	52.000		745193985
X COORD Node FILE NAME INPUT ID#	013, SUBA BA700MC 745193980	AREA	52.000	INPUT ID	745193985 NO
Node FILE NAME INPUT ID# ALT TYPE.	013, SUBJ BA700MC 745193980 RNF0002	AREA	52.000	INPUT ID	745193989 NO 52.00
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS.	013, SUB/ BA700MC 745193980 RNF0002 11.900	AREA	52.000	INPUT ID	745193985 NO 52.00
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS.	013, SUB/ BA700MC 745193980 RNF0002 11.900	AREA	52.000	INPUT ID FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET	745193988 NO 52.00 52.00
X COORD Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS DATA PTS.	013, SUB/ BA700MC 745193980 RNF0002 11.900 0.100	AREA	52.000	INPUT ID FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED	745193985 NO 52.00 52.00 52.00
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM	013, SUBJ BA700MC 745193980 RNF0002 11.900 0.100 120 FDOT 8	AREA	52.000	INPUT ID FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED	745193985 NO 52.00 52.00 52.00
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS DATA PTS. STORM	013, SUBJ BA700MC 745193980 RNF0002 11.900 0.100 120 FDOT 8 8.000	AREA	52.000	INPUT ID. FLOOD ELEVATION REACHED. INITIAL STAGE ELEVATION. INITIAL STORAGE, CUBIC FEET. MAXIMUM STAGE REACHED. MINIMUM STAGE REACHED.	745193985 NO 52.00 0.00 52.00 0.00 0.00
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL	013, SUBJ BA700MC 745193980 RNF0002 11.900 0.100 120 FDOT 8 8.000 9.200	AREA	52.000	INPUT ID	745193985 NO 52.00 52.00 52.00 0.00 0.00 52.00
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL	013, SUBJ BA700MC 745193980 RNF0002 11.900 0.100 120 FDOT 8 8.000 9.200	AREA	52.000	INPUT ID	745193985 NO 52.00 52.00 52.00 0.00 0.00 52.00
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL	013, SUBJ BA700MC 745193980 RNF0002 11.900 0.100 120 FDOT 8 8.000 9.200	AREA	52.000	INPUT ID. FLOOD ELEVATION REACHED. INITIAL STAGE ELEVATION. INITIAL STORAGE, CUBIC FEET. MAXIMUM STAGE REACHED. MINIMUM STAGE REACHED. MAXIMUM GROSS STORAGE, CF. MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION. TIME OF MAXIMUM STAGE, HOURS.	745193983 NO 52.00 52.00 52.00 0.00 0.00 52.00
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL	013, SUBJ BA700MC 745193980 RNF0002 11.900 0.100 120 FDOT 8 8.000 9.200	AREA	52.000	INPUT ID. FLOOD ELEVATION REACHED. INITIAL STAGE ELEVATION. INITIAL STORAGE, CUBIC FEET. MAXIMUM STAGE REACHED. MINIMUM STAGE REACHED. MAXIMUM GROSS STORAGE, CF. MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION. TIME OF MAXIMUM STAGE, HOURS.	745193983 NO 52.00 52.00 52.00 0.00 0.00 52.00
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL	013, SUBJ BA700MC 745193980 RNF0002 11.900 0.100 120 FDOT 8 8.000 9.200	AREA	52.000	INPUT ID. FLOOD ELEVATION REACHED. INITIAL STAGE ELEVATION. INITIAL STORAGE, CUBIC FEET. MAXIMUM STAGE REACHED. MINIMUM STAGE REACHED. MAXIMUM GROSS STORAGE, CF. MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION. TIME OF MAXIMUM STAGE, HOURS.	745193985 NO 52.00 0.00 52.00 0.00 0.00 0.00
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL. EXCESS ACREAGE TC, HRS TP, HRS PEAK CFS.	013, SUBJ BA700MC 745193980 RNF0002 11.900 0.100 120 FDOT_8 8.000 9.200 7.867 12.010 0.634 4.100 33.597	AREA	52.000	INPUT ID FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS.	745193985 NO 52.00 52.00 0.00 52.00 0.00 52.00 0.00
NODE FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM RAINFALL. EXCESS ACREAGE TC, HRS PEAK CFS. ACFT VOL.	013, SUBJ BA700MC 745193980 RNF0002 11.900 0.100 120 FDOT_8 8.000 9.200 7.867 12.010 0.634 4.100 33.597 7.871	AREA	52.000	INPUT ID. FLOOD ELEVATION REACHED. INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET. MAXIMUM STAGE REACHED. MINIMUM STAGE REACHED. MAXIMUM GROSS STORAGE, CF. MAXIMUM DETENTION STORAGE, CF. FINAL STAGE ELEVATION. TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS.	745193985 NO 52.00 52.00 0.00 52.00 0.00 52.00 0.00
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM RAINFALL. EXCESS ACREAGE IC, HRS PEAK CFS. ACFT VOL.	013, SUBJ BA700MC 745193980 RNF0002 11.900 0.100 120 FDOT_8 8.000 9.200 7.867 12.010 0.634 4.100 33.597 7.871	AREA	52.000	INPUT ID. FLOOD ELEVATION REACHED. INITIAL STAGE ELEVATION. INITIAL STORAGE, CUBIC FEET. MAXIMUM STAGE REACHED. MINIMUM STAGE REACHED. MAXIMUM GROSS STORAGE, CF. MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION. TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS. PEAK NODAL INTAKE, CFS TIME OF PEAK INTAKE, HOURS.	745193985 NO 52.00 0.00 52.00 0.00 52.00 0.00 0.00 33.60 4.10
Node FILE NAME INPUT ID# ALT TYPE. RUN, HRS. DT, HRS. DATA PTS. STORM HOURS RAINFALL. EXCESS ACREAGE TC, HRS TP, HRS PEAK CFS.	D13, SUBJ BA700MC 745193980 RNF0002 11.900 0.100 120 FDOT 8 8.000 9.200 7.867 12.010 0.634 4.100 33.597 7.871	AREA FLOOD EL.	52.000	INPUT ID. FLOOD ELEVATION REACHED. INITIAL STAGE ELEVATION. INITIAL STORAGE, CUBIC FEET. MAXIMUM STAGE REACHED. MINIMUM STAGE REACHED. MAXIMUM GROSS STORAGE, CF. MAXIMUM DETENTION STORAGE, CF. FINAL STAGE ELEVATION. TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS. PEAK NODAL INTAKE, CFS TIME OF PEAK INTAKE, HOURS. PEAK NODAL OUTPUT, CFS	745193988 NO 52.00 52.00 52.00 0.00 52.00 0.00 0.00



DIE . CEI III I	FLOOD EL.	52.000		
			MINIMUM STAGE REACHED	
			MAXIMUM GROSS STORAGE, CF	0.00
			FINAL STAGE ELEVATION	
			TIME OF MAXIMUM STAGE, HOURS.	0.00
			TIME OF MINIMUM STAGE, HOURS.	0.00
			PEAK NODAL OUTPUT, CFS	
			TIME OF PEAK OUTPUT, HOURS	4.90
0.000			POINTS OUT OF TOLERANCE	0
	Y COORD		MAXIMUM STAGE ERROR	0.00
	745194033 RNF0002 18.700 0.100 188 FDOT_8 8.000 9.200 8.233 11.020 1.770 4.900 18.753 7.558 YES	745194033 RNF0002 18.700 0.100 188 FDOT_8 8.000 9.200 8.233 11.020 1.770 4.900 18.753 7.558 YES 0.000	745194033 RNF0002 18.700 0.100 188 FDOT 8 8.000 9.200 8.233 11.020 1.770 4.900 18.753 7.558 YES	745194033 RNF0002 18.700 0.100 188 FDOT 8 8.000 9.200 8.233 11.020 1.770 4.900 18.753 7.558 YES 0.000 FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STAGE REACHED MAXIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF MAXIMUM DETENTION STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS. PEAK NODAL INTAKE, CFS TIME OF PEAK INTAKE, HOURS PEAK NODAL OUTPUT, CFS TIME OF PEAK OUTPUT, HOURS POINTS OUT OF TOLERANCE

Node 015, SUB	AREA	
INPUT ID# 745194077 ALT TYPE. RNF0002 RUN, HRS. 0.100 DT, HRS. 0.100 DATA PTS. 116 STORM FDOT_8 HOURS 8.000 RAINFALL 9.200 EXCESS 8.597 ACREAGE 11.860 TC, HRS 0.580		INPUT ID
TP, HRS 4.100 PEAK CFS. 36.521 ACFT VOL. 8.494 EXECUTED. YES BASE CFS. 0.000 X COORD		PEAK NODAL INTAKE, CFS 36.52 TIME OF PEAK INTAKE, HOURS 4.10 PEAK NODAL OUTPUT, CFS 36.52 TIME OF PEAK OUTPUT, HOURS 4.10 POINTS OUT OF TOLERANCE 0 MAXIMUM STAGE ERROR 0.00





Node	016, PON	D			
TOP EL	51.000	TOP AREA. BOT AREA.	6.210	INPUT ID. FLOOD ELEVATION REACHED INITIAL STAGE ELEVATION INITIAL STORAGE, CUBIC FEET MAXIMUM STAGE REACHED MINIMUM STAGE REACHED MAXIMUM GROSS STORAGE, CF MAXIMUM DETENTION STORAGE, CF FINAL STAGE ELEVATION TIME OF MAXIMUM STAGE, HOURS. TIME OF MINIMUM STAGE, HOURS.	NO 47.00 0.00 49.86 47.00 829618.00 829618.04 47.47 5.60
TOP LF MID LF BOT LF BASE CFS. X COORD.	0.000	SIDE *PER BASE *PER STAGE TO. Y COORD	47.000	PEAK NODAL INTAKE, CFS TIME OF PEAK INTAKE, HOURS PEAK NODAL OUTPUT, CFS TIME OF PEAK OUTPUT, HOURS POINTS OUT OF TOLERANCE MAXIMUM STAGE ERROR	212.31 4.20 147.47 5.60 0
Node		CTION		TANDER ID	752022265
Node	017, JUN0	TION		INPUT ID	





Appendix IGeotechnical Information

March 27, 2024

CDM Smith 2002 N. Lois Avenue, Suite 200 Tampa, FL 33607

Attn: Mr. Mohit Garg, P.E.

RE: Preliminary Seasonal High Groundwater Table Report

McIntosh Road from S. of US 92 to N. of I-4

Contract No.: CAE10 FPID: 447157-1-32-01

Hillsborough County, Florida Tierra Project No. 6511-21-035-001

Mr. Garg:

Tierra, Inc. (Tierra) has performed preliminary geotechnical services for the above referenced project to estimate the Seasonal High Groundwater Table (SHGWT) levels and to evaluate near-surface soil conditions. In addition, Tierra collected bulk samples of the existing subgrade along the project alignment and transported the samples to the FDOT State Materials Office in Gainesville for Resilient Modulus (M_R) testing. The results of our study performed to date are presented herein. As the project progresses, Tierra will provide updated evaluations and recommendations based on additional field explorations.

Project Description

The project consists of improvements to the existing McIntosh Road roadway from south of US 92/SR 600 to north of I-4 in Hillsborough County. The improvements to this segment of McIntosh Road will include widening the existing two-lane roadway to a four-lane divided roadway as well as intersection and I-4 ramp improvements.

Subsurface Exploration

Hand auger borings were completed at selected locations along the project alignment and in the vicinity of the proposed pond site alternatives. Generally, the roadway borings were located at intervals of approximately 300 feet along the proposed roadway alignment. The depths of these borings ranged from approximately $2\frac{1}{2}$ feet to 10 feet below existing grade. Following the completion of the borings, the locations and elevation of the borings included in this report were surveyed by the project surveyor.

The hand auger borings were performed by manually twisting and advancing a bucket auger into the ground, typically in 6-inch increments. As each soil type was revealed, representative samples were collected and returned to our office for confirmation of the field classification by a geotechnical engineer.

Temporary Piezometers

Tierra installed three (3) temporary piezometers to depths of approximately 6 feet to 7 feet below the existing ground surface along the project corridor. Following the installation of the

Preliminary Seasonal High Groundwater Table Report McIntosh Road from S. of US 92 to N. of I-4 Contract No.: CAE10 FPID: 447157-1-32-01 Tierra Project No. 6511-21-035-001 Hillsborough County, Florida Page 2 of 3

piezometers, the piezometer locations and elevations were surveyed by the project surveyor. The purpose of the piezometers was to monitor groundwater levels to assist in estimating SHGWT levels. The water level within each piezometer was measured using an electric water level meter. A Summary of Groundwater Table Measurements from Piezometers table is included in Attachments.

Seasonal High Groundwater Estimates

The SHGWT levels at the boring locations were estimated based on a review of the soil samples, natural indicators within the soils such as stain lines/mottles, measured groundwater levels in the borings/piezometers and the USDA Hillsborough County Soil Survey information. The estimated SHGWT levels at the roadway boring locations are summarized in the attached Summary of Seasonal High Groundwater Table Estimates table and the estimated SHGWT levels at the pond site alternative boring locations are summarized in the attached Summary of Pond Site Alternative Seasonal High Groundwater Table Estimates table.

Resilient Modulus Testing and Pavement Design Considerations

As previously mentioned, the M_R tests were performed by the FDOT State Materials Office in Gainesville on soil samples obtained along the project alignment. As addressed in the FDOT result summary letter provided in **Attachments**, a design M_R value of 11,200 psi is recommended by the FDOT for use in pavement design for the McIntosh project roadway and a design M_R value of 13,000 psi is recommended by the FDOT for use in pavement design for the I-4 ramp improvements. It should be noted that the design M_R value obtained from the tests performed may not be representative of borrow materials which may support some of the proposed roadway.

In accordance with FDOT guidelines, grades for this type of roadway should be ideally set to provide a minimum separation per FDOT, PPM between the bottom of the base and the estimated seasonal high groundwater levels. Correspondingly, the base should remain equally above sustained water treatment levels in roadside ditches, making positive drainage of the ditches important. The choice of base material would depend upon the relationship of final roadway improvement grades and the bottom of the base to the estimated seasonal high groundwater table levels.

Preliminary Seasonal High Groundwater Table Report McIntosh Road from S. of US 92 to N. of I-4 Contract No.: CAE10 FPID: 447157-1-32-01

Tierra Project No. 6511-21-035-001 Hillsborough County, Florida

Page 3 of 3

Tierra, Inc. appreciates the opportunity to provide our services on this project. Should you have any questions or require additional information, please do not hesitate to contact our office.

Kevin H. Scott, P.E.

Senior Geotechnical Engineer

Florida License No. 65514

Sincerely,

TIERRA, INC.

Dylan A. Nelson, P.E. Geotechnical Engineer

he A. Mhl

Florida License No. 96772

Malaak O. Araujo, E.I.

Geotechnical Engineer Intern

Attachments:

Summary of Roadway Seasonal High Groundwater Table Estimates
Summary of Pond Site Alternative Seasonal High Groundwater Table Estimates

Summary of Groundwater Table Measurements from Piezometers

Summary of Resilient Modulus Test Results - McIntosh Road

(Provided by FDOT State Materials Office in Gainesville)

Summary of Resilient Modulus Test Results – I-4 Ramp Improvements

(Provided by FDOT State Materials Office in Gainesville)

McIntosh Road from S. of US 92 to N. of I-4

Hillsborough County, Florida FPID No. 447157-1-32-01

	Boring I	ocation ⁽¹⁾	Survey	Boring		Measure		USI	OA Soil Survey		stimated
Boring Name			Ground	Depth ⁽²⁾	Gr	oundwater		Map	Estimated		SHGWT ⁽⁴⁾
Borning Name	State Pla	ane West	Elevation ⁽¹⁾	(feet)	Date	Depth ⁽²⁾	Elevation	Symbol	SHGWT ⁽³⁾ Depth	Depth ⁽²⁾	Elevation
	Easting	Northing	(feet, NAVD 88)	(1001)	Recorded	(feet)	(feet, NAVD 88)	3,	(feet)	(feet)	(feet, NAVD 88)
		1		I	McIntosh	Road				T	1
SH - MC-1	577252	1336570	56.3	4.5	11/03/21	4.1	52.2	29	0.5-1.5	2.5	53.8
SH - MC-2	577224	1336811	56.5	5.0	11/03/21	4.3	52.2	47	1.5-3.5	2.5	54.0
SH - MC-3	577249	1337067	56.9	5.0	11/03/21	4.7	52.2	33/47	0.5-1.5 / 1.5-3.5	3.0	53.9
SH - MC-4	577209	1337315	55.5	5.0	11/03/21	3.3	52.2	33	0.5-1.5	2.0	53.5
SH - MC-5	577249	1337570	56.5	5.0	11/03/21	3.9	52.6	33	0.5-1.5	2.5	54.0
SH - MC-6	577194	1337820	56.3	5.0	11/03/21	3.2	53.1	29	0.5-1.5	2.0	54.3
SH - MC-7	577247	1338078	57.1	5.0	11/03/21	4.3	52.8	29/47	0.5-1.5 / 1.5-3.5	2.5	54.6
SH - MC-8	577193	1338321	56.7	5.0	11/03/21	3.8	52.9	29/47	0.5-1.5 / 1.5-3.5	2.0	54.7
SH - MC-9	577296	1338555	57.8	6.0	11/03/21	4.3	53.5	29	0.5-1.5	2.5	55.3
SH - MC-10	577199	1338801	55.6	5.0	11/03/21	3.5	52.1	29	0.5-1.5	2.0	53.6
SH - MC-11	577253	1339064	56.1	5.0	11/03/21	GNE	<51.1	29	0.5-1.5	2.5 ^P	53.6 ^P
PZ - MC-12	577195	1339290	55.8	7.0	11/03/21	4.1	51.7	21/37	0.5-1.5 / +2.0-0.0	2.5	53.3
SH - MC-13	577251	1339525	55.8	7.0	11/04/21	GNE	<48.8	29/37	0.5-1.5 / +2.0-0.0	3.0 ^P	52.8 ^P
PZ - MC-14	577203	1339760	57.2	6.0	11/04/21	4.1	53.1	29	0.5-1.5	2.5	54.7
SH - MC-15	577248	1340027	56.4	6.0	11/04/21	GNE	<50.4	29	0.5-1.5	3.0 ^P	53.4 ^P
SH - MC-16	577195	1340272	55.8	6.0	11/04/21	GNE	<49.8	5	+2.0-0.0	2.0 ^P	53.8 ^P
SH - MC-17	577261	1340524	57.1	5.0	11/03/21	GNE	<52.1	5/29	+2.0-0.0 / 0.5-1.5	3.0 ^P	54.1 ^P
SH - MC-18	577160	1340775	54.2	5.0	11/04/21	GNE	<49.2	29	0.5-1.5	2.0 ^P	52.2 ^P
SH - MC-19	577278	1341016	54.8	7.0	11/04/21	GNE	<47.8	37	+2.0-0.0	3.0 ^P	51.8 ^P
SH - MC-20	577163	1341268	55.8	6.0	11/04/21	GNE	<49.8	27/37	0.3-1.5 / +2.0-0.0	3.0 ^P	52.8 ^P
SH - MC-21	577265	1341556	55.6	5.5	11/04/21	GNE	<50.1	27/37	0.3-1.5 / +2.0-0.0	2.0 ^P	53.6 ^P
SH - MC-22	577177	1341802	56.8	5.0	11/04/21	3.2	53.6	27	0.3-1.5	2.0	54.8
PZ - MC-23	577256	1342023	56.5	6.0	11/04/21	3.7	52.8	5/27	+2.0-0.0 / 0.3-1.5	2.5	54.0

⁽¹⁾ Boring locations and elevations were provided by the project surveyor.

⁽²⁾ Depth below existing grades at time of augering.

⁽³⁾ Seasonal high groundwater table depth estimated based on the Hillsborough County, Florida USDA Soil Survey information.

⁽⁴⁾ Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, and review of the Hillsborough County, Florida USDA Soil Survey.

P SHGWT anticipated to "perch" above silty to clayey soils encountered within test borings at indicated depths.

GNE: Groundwater Not Encountered within boring depth.

McIntosh Road from S. of US 92 to N. of I-4

Hillsborough County, Florida

FPID No. 447157-1-32-01

	Boring Location ⁽¹⁾		Survey Boring			Measured		USDA Soil Survey		Estimated	
Boring Name	Borning L	ocalion	Ground	Depth ⁽²⁾	Gr	oundwater		Map	Estimated		HGWT ⁽⁴⁾
Borning Name	State Pla	ane West	Elevation ⁽¹⁾	(feet)	Date	Depth ⁽²⁾	Elevation	Symbol	SHGWT ⁽³⁾ Depth	Depth ⁽²⁾	Elevation
	Easting	Northing	(feet, NAVD 88)	(ICCI)	Recorded	(feet)	(feet, NAVD 88)	O)So.	(feet)	(feet)	(feet, NAVD 88)
SH - MC-24	577196	1342255	54.7	4.0	01/04/24	1.8	52.9	5/29	+2.0-0.0 / 0.5-1.5	0.5	54.2
SH - MC-25	577248	1342549	56.2	8.0	01/03/24	7.3	48.9	29	0.5-1.5	2.0	54.2
SH - MC-26	577209	1342769	56.2	8.5	01/03/24	6.7	49.5	29	0.5-1.5	2.0	54.2
				Gor	e Road / Muck	Pond Road	d .				
SH - GORE-1	577577	1341914	58.0	6.5	01/04/24	5.3	52.7	29	0.5-1.5	2.0	56.0
SH - MUCK-1	576920	1341964	55.6	5.5	01/04/24	2.2	53.4	5/27	+2.0-0.0 / 0.3-1.5	1.0	54.6
					Ramp	A					
SH - RAMPA-1	575097	1340830	50.7	6.5	01/04/24	5.3	45.4	29/37	0.5-1.5 / +2.0-0.0	3.5	47.2
SH - RAMPA-2	575375	1340892	53.7	6.5	01/04/24	5.3	48.4	29	0.5-1.5	4.0	49.7
SH - RAMPA-3	575694	1340923	53.3	8.0	01/04/24	6.7	46.6	29	0.5-1.5	2.0 ^P	51.3 ^P
SH - RAMPA-4	575974	1341047	56.3	9.0	01/04/24	6.6	49.7	29	0.5-1.5	2.5	53.8
SH - RAMPA-5	576241	1341116	56.3	5.0	01/04/24	3.8	52.5	29	0.5-1.5	1.5	54.8
SH - RAMPA-6	576506	1341225	56.2	8.5	01/04/24	4.4	51.8	29	0.5-1.5	1.5	54.7
SH - RAMPA-7	576800	1341339	55.7	4.0	01/03/24	3.8	51.9	29	0.5-1.5	1.0	54.7
SH - RAMPA-8	577042	1341435	56.2	4.0	01/03/24	2.0	54.2	27/29	0.3-1.5 / 0.5-1.5	0.5	55.7
					Ramp	В					
SH - RAMPB-1	575752	1340652	54.0	5.0	01/02/24	3.8	50.2	29	0.5-1.5	2.0	52.0
SH - RAMPB-2	576058	1340692	55.8	5.5	01/04/24	4.3	51.5	29	0.5-1.5	2.5	53.3
SH - RAMPB-3	576342	1340717	56.4	6.0	01/02/24	4.5	51.9	29	0.5-1.5	2.0	54.4
SH - RAMPB-4	576640	1340758	55.2	10.0	01/02/24	8.3	46.9	29	0.5-1.5	3.0	52.2
SH - RAMPB-5	576937	1340806	53.0	9.5	01/03/24	7.6	45.4	29	0.5-1.5	3.0	50.0

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⁽⁴⁾ Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, and review of the Hillsborough County, Florida USDA Soil Survey.

P SHGWT anticipated to "perch" above silty to clayey soils encountered within test borings at indicated depths.

GNE: Groundwater Not Encountered within boring depth.

McIntosh Road from S. of US 92 to N. of I-4

Hillsborough County, Florida FPID No. 447157-1-32-01

	Dering I	ocation ⁽¹⁾	Survey	Boring		Measure	d	USI	OA Soil Survey	Estimated	
Davina Nama	Boring L	ocation	Ground	- 3	Gr	oundwater	Table	Man	Estimated		SHGWT ⁽⁴⁾
Boring Name	State Plane West		Elevation ⁽¹⁾ Depth ⁽²⁾		Date Dentr'		Elevation	Map Symbol	SHGWT ⁽³⁾ Depth	Depth ⁽²⁾	Elevation
	Easting	Northing	(feet, NAVD 88)	(feet)	Recorded	(feet)	(feet, NAVD 88)	Symbol	(feet)	(feet)	(feet, NAVD 88)
	Ramp C										
SH - RAMPC-1	577476	1340872	56.7	8.5	01/02/24	4.0	52.7	46	0.0-1.0	2.0	54.7
SH - RAMPC-2	577732	1341005	56.9	6.0	01/02/24	4.2	52.7	46	0.0-1.0	2.5	54.4
SH - RAMPC-3	578039	1341105	57.7	6.0	01/02/24	4.4	53.3	29/46	0.5-1.5 / 0.0-1.0	2.0	55.7
SH - RAMPC-4	578311	1341193	59.0	5.5	01/02/24	4.3	54.7	29	0.5-1.5	2.5	56.5
					Ramp	D					
SH - RAMPD-1	577517	1341495	55.0	6.5	01/02/24	2.4	52.6	37/27	+2.0-0.0 / 0.3-1.5	1.0	54.0
SH - RAMPD-2	577819	1341512	57.5	5.5	01/02/24	4.8	52.7	46	0.0-1.0	2.0	55.5
SH - RAMPD-3	578126	1341510	58.7	5.0	01/02/24	3.3	55.4	29	0.5-1.5	1.0	57.7
SH - RAMPD-4	578432	1341583	60.1	5.5	01/02/24	4.3	55.8	29	0.5-1.5	1.5	58.6

⁽¹⁾ Boring locations and elevations were provided by the project surveyor.

Depth below existing grades at time of augering.

Seasonal high groundwater table depth estimated based on the Hillsborough County, Florida USDA Soil Survey information.

⁽⁴⁾ Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, and review of the Hillsborough County, Florida USDA Soil Survey.

P SHGWT anticipated to "perch" above silty to clayey soils encountered within test borings at indicated depths.

GNE: Groundwater Not Encountered within boring depth.

Summary of Pond Site Alternative Seasonal High Groundwater Table Estimates McIntosh Road from S. of US 92 to N. of I-4 US 92/SR 600 From W. of McIntosh Road to E. of McIntosh Road Hillsborough County, Florida

FPID Nos. 447157-1-32-01 & 447158-1-32-01 Tierra Project Nos. 6511-21-035-001 & 6511-21-035-002

		Boring L	ocation ⁽¹⁾	Surveyed			Measured		USDA	Soil Survey	Estimated	
Pond Site	Boring	FL State P	lane West	Ground	Boring		Groundwater T	able		Estimated	S	HGWT ⁽⁴⁾
Alternative Name	Name	Northing	Easting	Elevation ⁽¹⁾	Depth ⁽²⁾ (feet)	Date	Depth ⁽²⁾	Elevation	Map Symbol	SHGWT ⁽³⁾ Depth	Depth ⁽²⁾	Elevation
		Northing	Easting	(feet, NAVD 88)	(icci)	Recorded	(feet)	(feet, NAVD 88)		(feet)	(feet)	(feet, NAVD 88)
	PBA-SMF1&7-1-1	1337806	577168	55.8	4.0	2/26/2024	2.3	53.5	29	0.5-1.5	1.0	54.8
SMF 1&7-1	PBA-SMF1&7-1-2	1337456	577148	54.9	5.0	2/26/2024	2.5	52.4	33	0.5-1.5	1.0	53.9
Sivii 107-1	PBA-SMF1&7-1-3	1337464	576742	54.1	4.0	2/26/2024	2.8	51.3	33	0.5-1.5	0.5	53.6
	PBA-SMF1&7-1-4	1337795	576738	54.7	4.0	2/26/2024	1.8	52.9	29	0.5-1.5	0.5	54.2
	PBA-SMF1&7-2-1	1338197	576878	55.5	5.0	2/26/2024	3.8	51.7	47	1.5-3.5	1.5	54.0
SMF 1&7-2	PBA-SMF1&7-2-2	1338322	576933	55.6	5.5	2/26/2024	2.8	52.8	47	1.5-3.5	1.5	54.1
3WI 107-2	PBA-SMF1&7-2-3	1338217	577127	56.6	6.5	2/26/2024	3.5	53.1	47	1.5-3.5	1.5	55.1
	PBA-FPC1-2-2	1338239	576642	54.5	5.0	2/26/2024	3.2	51.3	47	1.5-3.5	1.0	53.5
SMF 2-1	PBA-SMF2-1-1	1339488	576701	55.6	4.5	2/29/2024	2.8	52.8	29	0.5-1.5	1.0	54.6
SIVIF 2-1	PBA-SMF2-1-2	1339544	577000	57.0	4.5	2/29/2024	3.7	53.3	29	0.5-1.5	1.5	55.5
	PBA-SMF2-2-1	1339739	577423	57.3	5.0	2/28/2024	3.7	53.6	29	0.5-1.5	1.0	56.3
SMF 2-2	PBA-SMF2-2-2	1339893	577651	57.6	5.0	2/28/2024	4.0	53.6	29	0.5-1.5	1.5	56.1
	PBA-SMF2-2-3	1339784	577819	55.9	4.0	2/28/2024	2.3	53.6	29	0.5-1.5	0.5	55.4
	PBA-SMF3-1-1	1339962	577450	57.9	5.0	2/28/2024	4.1	53.8	29	0.5-1.5	1.5	56.4
SMF 3-1	PBA-SMF3-1-2	1340144	577556	57.6	4.5	2/28/2024	3.8	53.8	29	0.5-1.5	1.5	56.1
	PBA-SMF3-1-3	1340199	577922	58.1	6.0	2/28/2024	4.2	53.9	29	0.5-1.5	2.0	56.1
	PBA-SMF3-2-1	1340343	578153	59.1	5.5	2/28/2024	4.7	54.4	29	0.5-1.5	1.5	57.6
SMF 3-2	PBA-SMF3-2-2	1340110	578156	58.8	5.5	2/28/2024	4.4	54.4	21	0.5-1.5	1.5	57.3
SIVII 3-2	PBA-SMF3-2-3	1339929	577849	57.4	5.5	2/28/2024	4.3	53.1	29	0.5-1.5	1.5	55.9
	PBA-SMF3-1-3	1340199	577922	58.1	6.0	2/28/2024	4.2	53.9	29	0.5-1.5	2.0	56.1
	PBA-Pond7-1	1341843	574466	48.0	6.5	2/29/2024	5.6	42.4	29	0.5-1.5	1.5	46.5
Pond 7	PBA-Pond7-2	1341529	574963	50.4	10.0	2/29/2024	7.7	42.7	5	+2.0-0.0	4.0	46.4
	PBA-Pond7-4	1340949	575027	49.8	5.5	2/29/2024	4.0	45.8	29	0.5-1.5	2.5	47.3
	PBA-SMF5-1-1	1342011	577401	57.0	4.5	2/28/2024	3.5	53.5	27	0.3-1.5	1.5	55.5
SMF 5-1	PBA-SMF5-1-2	1342008	577538	58.8	5.0	2/28/2024	4.1	54.7	29	0.5-1.5	2.0	56.8
	PBA-SMF5-1-3	1342145	577530	56.7	5.0	2/28/2024	3.9	52.8	29	0.5-1.5	1.5	55.2
	PBA-SMF5-2-1	1341756	576638	56.9	4.0	2/29/2024	2.8	54.1	29	0.5-1.5	1.0	55.9
SMF 5-2	PBA-SMF5-2-2	1341689	576837	56.7	4.0	2/29/2024	2.6	54.1	29	0.5-1.5	1.0	55.7
	PBA-SMF5-2-3	1341796	577004	57.0	4.5	2/29/2024	2.9	54.1	29	0.5-1.5	1.0	56.0
SMF 5-3	PBA-SMF5-3-1	1342763	576851	56.3	3.5	2/29/2024	2.0	54.3	29	0.5-1.5	1.0	55.3
OWN 3-3	PBA-SMF5-3-2	1342698	577151	57.2	5.0	2/29/2024	3.7	53.5	29	0.5-1.5	2.0	55.2
FPC 1-1	PBA-FPC1-1-1	1338161	576157	52.4	4.0	2/26/2024	2.3	50.1	29	0.5-1.5	0.5	51.9
1 F O 1-1	PBA-FPC1-1-2	1338059	576260	52.6	4.0	2/26/2024	1.9	50.7	47	1.5-3.5	0.5	52.1
FPC 1-2	PBA-FPC1-2-1	1338265	576457	53.7	6.0	2/26/2024	2.7	51.0	47	1.5-3.5	1.0	52.7
1101-2	PBA-FPC1-2-2	1338239	576642	54.5	5.0	2/26/2024	3.2	51.3	47	1.5-3.5	1.5	53.0

¹⁾ Boring locations and elevations were provided by the Project Surveyor.

⁽²⁾ Depth below existing grades at time of field exploration.

³⁾ Seasonal high groundwater table depth estimated based on the Hillsborough County, Florida USDA Soil Survey information.

⁽⁴⁾ Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, the Hillsborough County, Florida USDA Soil Survey information and past experience with similar soil conditions.

Summary of Pond Site Alternative Seasonal High Groundwater Table Estimates McIntosh Road from S. of US 92 to N. of I-4 US 92/SR 600 From W. of McIntosh Road to E. of McIntosh Road Hillsborough County, Florida

FPID Nos. 447157-1-32-01 & 447158-1-32-01 Tierra Project Nos. 6511-21-035-001 & 6511-21-035-002

		Boring L	ocation ⁽¹⁾	Surveyed	D!		Measured		USDA	Soil Survey	Estimated	
Pond Site	Boring	FL State P	lane West	Ground	Boring Depth ⁽²⁾		Groundwater T	able		Estimated	SI	HGWT ⁽⁴⁾
Alternative Name	Name	Northing	Easting	Elevation ⁽¹⁾	(feet)	Date	Depth ⁽²⁾	Elevation	Map Symbol	SHGWT ⁽³⁾ Depth	Depth ⁽²⁾	Elevation
		Northing	Easing	(feet, NAVD 88)	(icci)	Recorded	(feet)	(feet, NAVD 88)		(feet)	(feet)	(feet, NAVD 88)
	PBA-FPC2-1-1	1337865	577341	56.5	5.0	2/27/2024	3.8	52.7	29	0.5-1.5	1.5	55.0
FPC 2-1	PBA-FPC2-1-2	1337819	577550	58.2	5.5	2/27/2024	4.7	53.5	29	0.5-1.5	1.5	56.7
1102-1	PBA-FPC2-1-3	1337706	577392	57.0	5.0	2/27/2024	4.1	52.9	29	0.5-1.5	2.0	55.0
	PBA-FPC2-1-4	1337635	577557	57.1	5.0	2/27/2024	4.3	52.8	29	0.5-1.5	1.5	55.6
FPC 2-2A	PBA-FPC2-2A-1	1338295	577439	56.7	5.5	2/27/2024	4.7	52.0	47	1.5-3.5	1.5	55.2
FFC 2-2A	PBA-FPC2-2A-2	1338443	577539	56.6	5.0	2/27/2024	3.4	53.2	47	1.5-3.5	1.0	55.6
	PBA-FPC2-2B-1	1338131	577395	55.3	3.5	2/27/2024	0.9	54.4	29	0.5-1.5	0.0	55.3
FPC 2-2B	PBA-FPC2-2B-2	1337955	577600	57.7	6.0	2/27/2024	4.3	53.4	29	0.5-1.5	2.0	55.7
FPC 2-2B	PBA-FPC2-2B-3	1338026	577861	57.9	6.0	2/27/2024	4.3	53.6	29	0.5-1.5	2.0	55.9
	PBA-FPC2-2B-4	1337974	578043	58.1	6.0	2/27/2024	4.7	53.4	29	0.5-1.5	2.0	56.1
	PBA-SMF2-2-1	1339739	577423	57.3	5.0	2/28/2024	3.7	53.6	29	0.5-1.5	1.0	56.3
FPC 3-1	PBA-SMF2-2-2	1339893	577651	57.6	5.0	2/28/2024	4.0	53.6	29	0.5-1.5	1.5	56.1
	PBA-SMF2-2-3	1339784	577819	55.9	4.0	2/28/2024	2.3	53.6	29	0.5-1.5	0.5	55.4
	PBA-FPC3-2-1	1339862	578537	57.4	5.0	2/28/2024	3.2	54.2	46	0.0-1.0	1.5	55.9
FPC 3-2	PBA-FPC3-2-2	1339737	578180	56.1	4.0	2/28/2024	2.6	53.5	46	0.0-1.0	0.0	56.1
FPC 3-2	PBA-FPC3-2-3	1339523	578548	58.0	5.0	2/28/2024	3.8	54.2	33	0.5-1.5	1.5	56.5
	PBA-FPC3-2-4	1339271	578241	56.9	4.5	2/28/2024	3.3	53.6	46	0.0-1.0	1.0	55.9
	PBA-FPC4-1-1	1341516	575944	55.9	4.0	2/29/2024	2.7	53.2	29	0.5-1.5	1.0	54.9
FPC 4-1	PBA-FPC4-1-2	1341442	576297	57.3	4.5	2/29/2024	2.6	54.7	29	0.5-1.5	1.5	55.8
FPC 4-1	PBA-FPC4-1-3	1341277	576176	56.6	3.5	2/29/2024	2.8	53.8	29	0.5-1.5	1.5	55.1
	PBA-FPC4-1-4	1341177	575958	56.1	4.5	2/29/2024	3.7	52.4	29	0.5-1.5	1.5	54.6
	PBA-FPC4-2-1	1341737	576478	57.1	4.5	2/29/2024	2.9	54.2	29	0.5-1.5	1.0	56.1
	PBA-FPC4-2-2	1341540	576515	57.3	4.5	2/29/2024	3.2	54.1	29	0.5-1.5	1.0	56.3
FPC 4-2	PBA-FPC4-2-3	1341375	576537	57.2	4.5	2/29/2024	3.0	54.2	29	0.5-1.5	1.5	55.7
	PBA-FPC4-2-4	1341493	576757	57.3	4.0	2/29/2024	3.0	54.3	29	0.5-1.5	1.5	55.8
	PBA-FPC4-2-5	1341491	577000	58.7	4.5	2/29/2024	2.4	56.3	29	0.5-1.5	1.0	57.7
	PBA-FPC5-1-1	1342357	577388	54.5	2.5	2/29/2024	1.7	52.8	29	0.5-1.5	0.5	54.0
FPC 5-1	PBA-FPC5-1-2	1342393	577525	55.1	3.5	2/29/2024	1.8	53.3	5	+2.0-0.0	0.5	54.6
	PBA-FPC5-1-3	1342258	577407	54.2	3.5	2/29/2024	1.7	52.5	5	+2.0-0.0	0.5	53.7
	PBA-SMF5-1-1	1342011	577401	57.0	4.5	2/28/2024	3.5	53.5	27	0.3-1.5	1.5	55.5
FPC 5-2	PBA-SMF5-1-2	1342008	577538	58.8	5.0	2/28/2024	4.1	54.7	29	0.5-1.5	2.0	56.8
	PBA-SMF5-1-3	1342145	577530	56.7	5.0	2/28/2024	3.9	52.8	29	0.5-1.5	1.5	55.2

¹⁾ Boring locations and elevations were provided by the Project Surveyor.

⁽²⁾ Depth below existing grades at time of field exploration.

⁽³⁾ Seasonal high groundwater table depth estimated based on the Hillsborough County, Florida USDA Soil Survey information.

⁽⁴⁾ Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, the Hillsborough County, Florida USDA Soil Survey information and past experience with similar soil conditions.

Summary of Groundwater Table Measurements from Piezometers McIntosh Road from S. of US 92 to N. of I-4 Hillsborough County, Florida FPID No. 447157-1-32-01 Tierra Project No. 6511-21-035-001

Piezometer Name	Piezometer	· Location ⁽¹⁾	Ground Elevation ⁽²⁾	Groundwater Elevation ⁽³⁾ (feet, NAVD88)			
Name	Easting	Northing	(feet, NAVD88)	11/04/21	03/22/22	07/26/22	
PZ-MC-12	577195	1339290	55.8	51.7	51.9	52.6	
PZ-MC-14	577203	1339760	57.2	53.1	53.0	53.5	
PZ-MC-23	PZ-MC-23 577256 1342023		56.5	52.8	51.9	53.4	

⁽¹⁾ State Plane coordinates of the piezometer locations were provided by Echezabal & Associates, Inc.

⁽²⁾ Ground elevations were provided by the project surveyor.

⁽³⁾ Groundwater elevations calculated by subtracting the depth to the groundwater from the surveyed ground elevation.



RON DESANTIS GOVERNOR 605 Suwannee Street Tallahassee, FL 32399-0450 KEVIN J. THIBAULT SECRETARY

MEMORANDUM

DATE: February 17, 2022

TO: Kisan Patel, District Geotechnical Materials Engineer

FROM: David Horhota, State Geotechnical Materials Engineer

SUBJECT: Embankment Resilient Modulus Pavement Design

District 7, Hillsborough County

FPN 447157-1: McIntosh Road from S of US-92 to N of I-4

Three (3), 2-bag samples were received by the State Materials Office (SMO) for determination of an embankment (roadbed) resilient modulus for pavement design. After visual observation of the three samples, it was determined that the material from each 2-bag sample looked visually similar and the material from each of the bags were combined to form one sample from each location. After combining materials from the bags, samples from each location were obtained for classification tests (Atterberg limits, particle size analysis, and organic content), Proctor density, and resilient modulus. The classification test results are reported in Tables 1 and 2. Information provided for this project by Tierra, Inc. did not include sample depth.

Table 1. Summary of Initial Soil Gradation Results

Sample ID	Passing 3/4" (%)	Passing 1/2" (%)	Passing 3/8" (%)	Passing No. 4 (%)	Passing No. 10 (%)	Passing No. 40 (%)	Passing No. 60 (%)	Passing No. 100 (%)	Passing No. 200 (%)
SH-MC-1	100.0	100.0	100.0	99.9	99.8	92.7	62.6	28.6	6.6
SH-MC-10	100.0	100.0	100.0	100.0	99.9	93.3	67.0	34.1	9.1
SH-MC-20	100.0	99.7	99.3	98.6	97.8	86.1	52.9	24.6	9.2

Table 2. Summary of Soil Classification and Organic Content Results

Sample ID	Location	Soil Class.	Organic Content (%)	LL/PI
SH-MC-1	577260, 1336569	A-3	1.4	N.P.
SH-MC-10	577185, 1338814	A-3	2.2	N.P.
SH-MC-20	577170, 1341278	A-3	2.8	N.P.

In addition to the classification testing, the following test program was conducted:

- (1) Standard Proctor, AASHTO T 99
- (2) Resilient Modulus (M_R), AASHTO T 307.

A summary of laboratory test results is included in Table 3. The resilient modulus values listed in this table were obtained using the relationship developed from each individual test (resilient modulus versus bulk stress with bulk stress, Θ , defined as $\Theta = \sigma_1 + \sigma_2 + \sigma_3$), and using a bulk stress of 11 psi, which is the recommendation from Dr. Ping's research work in modeling the embankment in-situ stresses for Florida pavement conditions. Two results are listed for each location because two samples were prepared for each location and they represent the individual test result from each sample tested. The resilient modulus samples were compacted to within 1 pound per cubic foot (pcf) of the maximum density and 0.5 percent of the optimum moisture content as determined by AASHTO T99.

Table 3. Summary of T-99 and M_R Test Results

Sample ID	Passing No. 200 (%)	Standard Proctor Density (pcf)	Optimum Moisture Content (%)	Resilient Modulus @ @=11psi (psi)	Average Resilient Modulus (psi)
SH-MC-1	7 110.0 12.4		11,276 11,685	11,481	
SH-MC-10	9	111.0	11.8	11,697 10,661	11,179
SH-MC-20	9	112.1	12.1	11,849 12,848	12,349

For this set of samples, the minimum number of samples called for in the Soils and Foundations Handbook were not satisfied. This resulted in an inability to perform a true 90% method of analysis due to a lack of the required number of test values.

For those reasons, it is recommended that the lowest average resilient modulus be used for the design. Based on the results for sample SH-MC-10, a design M_R of 11,200 psi would be recommended for this project.



RON DESANTIS GOVERNOR 605 Suwannee Street Tallahassee, FL 32399-0450 JARED W. PERDUE, P.E. SECRETARY

MEMORANDUM

DATE: January 19, 2024

TO: Zhihong Hu, District Geotechnical Materials Engineer

FROM: John Shoucair, Geotechnical Materials Engineer

SUBJECT: Embankment Resilient Modulus Pavement Design

District 7, Hillsborough County

FPN 447157-1: MIRD McIntosh Rd. from S of US 92 to N of I-4

Four (4), 2-bag samples were received by the State Materials Office (SMO) for determination of an embankment (roadbed) resilient modulus for pavement design. After visual observation of the three samples, it was determined that the material from each 2-bag sample looked visually similar and the material from each of the bags were combined to form one sample from each location. After combining materials from the bags, samples from each location were obtained for classification tests (Atterberg limits, particle size analysis, and organic content), Proctor density, and resilient modulus. The classification test results are reported in Tables 1 and 2. Information provided for this project by Tierra, Inc. did not include sample depth.

Table 1. Summary of Initial Soil Gradation Results

Sample ID	Passing 3/4" (%)	Passing 1/2" (%)	Passing 3/8" (%)	Passing No. 4 (%)	Passing No. 10 (%)	Passing No. 40 (%)	Passing No. 60 (%)	Passing No. 100 (%)	Passing No. 200 (%)
RAMPA-8	100.0	100.0	99.8	99.0	98.4	89.9	60.4	29.9	10.5
RAMPB-3	100.0	100.0	100.0	99.9	99.8	91.5	58.1	25.9	5.1
RAMPC-3	100.0	100.0	100.0	99.8	99.5	90.0	59.9	27.8	7.2
RAMPD-4	100.0	100.0	100.0	99.8	99.8	91.4	62.1	29.4	10.8

Table 2. Summary of Soil Classification and Organic Content Results

Sample ID	SP East	SP North	Soil Class.	Organic Content (%)	LL/PI
RAMPA-8	575970	1341047	A-3	1.2	N.P.
RAMPB-3	576333	1340729	A-3	1.0	N.P.
RAMPC-3	577736	1341016	A-3	1.2	N.P.
RAMPD-4	577827	1341509	A-2-4	1.1	N.P.

In addition to the classification testing, the following test program was conducted:

- (1) Standard Proctor, AASHTO T 99
- (2) Resilient Modulus (M_R), AASHTO T 307.

A summary of laboratory test results is included in Table 3. The resilient modulus values listed in this table were obtained using the relationship developed from each individual test (resilient modulus versus bulk stress with bulk stress, Θ , defined as $\Theta = \sigma_1 + \sigma_2 + \sigma_3$), and using a bulk stress of 11 psi, which is the recommendation from Dr. Ping's research work in modeling the embankment in-situ stresses for Florida pavement conditions. Two results are listed for each location because two samples were prepared for each location and they represent the individual test result from each sample tested. The resilient modulus samples were compacted to within 1 pound per cubic foot (pcf) of the maximum density and 0.5 percent of the optimum moisture content as determined by AASHTO T99.

Table 3. Summary of T-99 and M_R Test Results

Sample ID	Passing Standard No. 200 Proctor (%) Density (po		Optimum Moisture Content (%)	Resilient Modulus @ 0=11psi (psi)	Average Resilient Modulus (psi)
RAMPA-8	10	114.9	11.1	15,993	15,795
KAWII A-0	10	114.9	11.1	15,598	13,793
RAMPB-3	5	105.6	12.6	12,418	13,013
KAMI D-3	3	103.0	12.0	13,608	13,013
RAMPC-3	7	110.4	11.2	14,311	13,805
KAMPC-3	/	110.4	11.2	13,299	13,803
RAMPD-4	11	114.1	10.2	15,352	14.079
KAWIPD-4	11	114.1	10.2	14,604	14,978

For this set of samples, the minimum number of samples called for in the Soils and Foundations Handbook were not satisfied. This resulted in an inability to perform a true 90% method of analysis due to a lack of the required number of test values.

For those reasons, it is recommended that the lowest average resilient modulus be used for the design. Based on the results for sample RAMPB-3, a design M_R of 13,000 psi would be recommended for this project.

March 27, 2024

CDM Smith 2002 N. Lois Avenue, Suite 200 Tampa, FL 33607

Attn: Mr. Mohit Garg, P.E.

RE: Preliminary Seasonal High Groundwater Table Report

US 92/SR 600 from W. of McIntosh Road to E. of McIntosh Road

Contact No.: CAE10 FPID: 447158-1-32-01

Hillsborough County, Florida Tierra Project No. 6511-21-035-002

Mr. Garg:

Tierra, Inc. (Tierra) has performed preliminary geotechnical services for the above referenced project to estimate the Seasonal High Groundwater Table (SHGWT) levels and to evaluate near-surface soil conditions. In addition, Tierra collected bulk samples of the existing subgrade along the project alignment and transported the samples to the FDOT State Materials Office in Gainesville for Resilient Modulus (M_R) testing. The results of our study performed to date are presented herein. As the project progresses, Tierra will provide updated evaluations and recommendations based on additional field explorations.

Project Description

The project consists of improvements to the existing US 92/SR 600 roadway from west of McIntosh Road to east of McIntosh Road in Hillsborough County. The improvements to this segment of US 92/SR 600 will include widening the existing two-lane roadway to a four-lane divided roadway.

Subsurface Exploration

Hand auger borings were completed at selected locations along the project alignment and in the vicinity of the proposed pond site alternatives. Generally, these borings were located at intervals of approximately 300 feet along the proposed roadway alignment. The depths of these borings ranged from approximately 2½ feet to 10 feet below existing grade. Following the completion of the borings, the locations and elevation of the borings included in this report were surveyed by the project surveyor.

The hand auger borings were performed by manually twisting and advancing a bucket auger into the ground, typically in 6-inch increments. As each soil type was revealed, representative samples were collected and returned to our office for confirmation of the field classification by a geotechnical engineer.

Temporary Piezometers

Tierra installed two (2) temporary piezometers to depths of approximately 6 feet to 7 feet below the existing ground surface along the project corridor. Following the installation of the

Preliminary Seasonal High Groundwater Table Report McIntosh Road from S. of US 92 to N. of I-4 Contract No.: CAE10 FPID: 447157-1-32-01 Tierra Project No. 6511-21-035-001 Hillsborough County, Florida Page 2 of 3

piezometers, the piezometer locations and elevations were surveyed by the project surveyor. The purpose of the piezometers was to monitor groundwater levels to assist in estimating SHGWT levels. The water level within each piezometer was measured using an electric water level meter. A Summary of Groundwater Table Measurements from Piezometers table is included in Attachments.

Seasonal High Groundwater Estimates

The SHGWT levels at the boring locations were estimated based on a review of the soil samples, natural indicators within the soils such as stain lines/mottles, measured groundwater levels in the borings/piezometers and the USDA Hillsborough County Soil Survey information. The estimated SHGWT levels at the roadway boring locations are summarized in the attached Summary of Seasonal High Groundwater Table Estimates table and the estimated SHGWT levels at the pond site alternative boring locations are summarized in the attached Summary of Pond Site Alternative Seasonal High Groundwater Table Estimates table.

Resilient Modulus Testing and Pavement Design Considerations

As previously mentioned, the M_R tests were performed by the FDOT State Materials Office in Gainesville on soil samples obtained along the project alignment. As addressed in the FDOT result summary letter provided in **Attachments**, a design M_R value of 10,900 psi is recommended by the FDOT for use in pavement design for this project. It should be noted that the design M_R value obtained from the tests performed may not be representative of borrow materials which may support some of the proposed roadway.

In accordance with FDOT guidelines, grades for this type of roadway should be ideally set to provide a minimum separation per FDOT, PPM between the bottom of the base and the estimated seasonal high groundwater levels. Correspondingly, the base should remain equally above sustained water treatment levels in roadside ditches, making positive drainage of the ditches important. The choice of base material would depend upon the relationship of final roadway improvement grades and the bottom of the base to the estimated seasonal high groundwater table levels.

Preliminary Seasonal High Groundwater Table Report McIntosh Road from S. of US 92 to N. of I-4 Contract No.: CAE10 FPID: 447157-1-32-01

Tierra Project No. 6511-21-035-001 Hillsborough County, Florida

Page 3 of 3

Tierra, Inc. appreciates the opportunity to provide our services on this project. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,

TIERRA, INC.

Dylan A. Nelson, P.E. Geotechnical Engineer

le A. Ml

Florida License No. 96772

Kevin H. Scott, P.E.

Senior Geotechnical Engineer Florida License No. 65514

Malaak O. Araujo, E.I.

Geotechnical Engineer Intern

Attachments:

Summary of Roadway Seasonal High Groundwater Table Estimates Summary of Pond Site Alternative Seasonal High Groundwater Table Estimates Summary of Groundwater Table Measurements from Piezometers Summary of Resilient Modulus Test Results (Provided by FDOT State Materials Office in Gainesville)

US 92/SR 600 from W. of McIntosh Road to E. of McIntosh Road

Hillsborough County, Florida

FPID No. 447158-1-32-01

	Paring I	Boring Location ⁽¹⁾		Boring		Measure	d	US	DA Soil Survey	Estimated	
Boring Name			Ground	Depth ⁽²⁾	Gr	oundwater		Мар	Estimated		SHGWT ⁽⁴⁾
Dorning Name	State Pla	ane West	Elevation ⁽¹⁾	(feet)	Date	Depth ⁽²⁾	Elevation	Symbol	SHGWT ⁽³⁾ Depth	Depth ⁽²⁾	
	Easting	Northing	(feet, NAVD 88)	(ICCI)	Recorded	(feet)	(feet, NAVD 88)	- Cylliddi	(feet)	(feet)	(feet, NAVD 88)
SH - US92-420	574958	1338037	48.3	5.0	11/10/21	2.4	45.9	21	0.5-1.5	1.5	46.8
SH - US92-423	575265	1338111	50.5	5.5	11/10/21	2.5	48.0	29	0.5-1.5	1.5	49.0
SH - US92-426	575548	1338189	50.2	5.0	11/10/21	2.8	47.4	29	0.5-1.5	1.5	48.7
SH - US92-429	575829	1338265	50.2	5.0	11/10/21	2.8	47.4	29	0.5-1.5	1.5	48.7
SH - US92-432	576112	1338350	52.4	5.0	11/10/21	2.5	49.9	29	0.5-1.5	1.5	50.9
SH - US92-435	576416	1338414	52.6	4.5	11/10/21	2.0	50.6	47	1.5-3.5	1.0	51.6
SH - US92-438	576700	1338489	52.9	5.0	11/10/21	1.7	51.2	29/47	0.5-1.5 / 1.5-3.5	1.0	51.9
SH - US92-441	576989	1338580	55.9	5.5	11/1 0/21	2.2	53.7	29	0.5-1.5	1.0	54.9
SH - US92-442	577170	1338641	57.4	5.0	11/10/21	2.1	55.3	29	0.5-1.5	1.0	56.4
SH - US92-445	577379	1338703	57.1	5.0	11/10/21	3.3	53.8	29	0.5-1.5	2.0	55.1
SH - US92-448	577652	1338763	58.0	5.0	11/10/21	3.9	54.1	29	0.5-1.5	2.0	56.0
SH - US92-451	577955	1338829	58.5	5.0	11/10/21	4.6	53.9	29	0.5-1.5	2.5	56.0
SH - US92-454	578254	1338840	58.1	5.0	11/08/21	3.4	54.7	29	0.5-1.5	1.5	56.6
SH - US92-457	578566	1338923	59.5	5.0	11/08/21	4.2	55.3	5/29	+2.0-0.0 / 0.5-1.5	2.0	57.5
SH - US92-460	578857	1338995	58.1	6.5	11/09/21	1.8	56.3	5	+2.0-0.0	0.5	57.6
SH - US92-463	579135	1339055	60.6	5.0	11/08/21	2.1	58.5	29	0.5-1.5	1.0	59.6
SH - US92-466	579431	1339128	63.6	5.0	11/08/21	3.9	59.7	47	1.5-3.5	2.0	61.6
SH - US92-469	579732	1339208	64.6	5.0	11/08/21	4.0	60.6	47	1.5-3.5	2.0	62.6
SH - US92-472	580012	1339271	67.7	5.5	11/08/21	GNE	<62.2	47	1.5-3.5	4.0	63.7
SH - US92-475	580303	1339354	67.5	6.0	11/08/21	5.3	62.2	47	1.5-3.5	3.5	64.0
SH - US92-478	580605	1339443	66.0	6.0	11/08/21	4.3	61.7	47	1.5-3.5	2.5	63.5
SH - US92-481	580874	1339518	66.6	6.0	11/08/21	5.1	61.5	33/47	0.5-1.5 / 1.5-3.5	3.0	63.6
SH - US92-484	581171	1339581	66.6	5.0	11/09/21	4.6	62.0	33	0.5-1.5	2.5	64.1
SH - US92-487	581471	1339662	67.5	6.0	11/09/21	3.5	64.0	33	0.5-1.5	2.0	65.5

⁽¹⁾ Boring locations and elevations were provided by Echezabal & Associates, Inc.

⁽²⁾ Depth below existing grades at time of augering.

⁽³⁾ Seasonal high groundwater table depth estimated based on the Hillsborough County, Florida USDA Soil Survey information.

Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, and review of the Hillsborough County, Florida USDA Soil Survey.

GNE: Groundwater Not Encountered within boring depth.

Summary of Pond Site Alternative Seasonal High Groundwater Table Estimates McIntosh Road from S. of US 92 to N. of I-4 US 92/SR 600 From W. of McIntosh Road to E. of McIntosh Road Hillsborough County, Florida

FPID Nos. 447157-1-32-01 & 447158-1-32-01 Tierra Project Nos. 6511-21-035-001 & 6511-21-035-002

		Boring L	ocation ⁽¹⁾	Surveyed			Measured		USDA	Soil Survey	Estimated	
Pond Site	Boring	FL State F		Ground	Boring Depth ⁽²⁾		Groundwater T	able		Estimated	SHGWT ⁽⁴⁾	
Alternative Name	Name	Northing	Easting	Elevation ⁽¹⁾	(feet)	Date	Depth ⁽²⁾	Elevation	Map Symbol	SHGWT ⁽³⁾ Depth	Depth ⁽²⁾	Elevation
		Northing	Easting	(feet, NAVD 88)	(leet)	Recorded	(feet)	(feet, NAVD 88)		(feet)	(feet)	(feet, NAVD 88)
	PBA-SMF1&7-1-1	1337806	577168	55.8	4.0	2/26/2024	2.3	53.5	29	0.5-1.5	1.0	54.8
SMF 1&7-1	PBA-SMF1&7-1-2	1337456	577148	54.9	5.0	2/26/2024	2.5	52.4	3 3	0.5-1.5	1.0	53.9
Sivii 107-1	PBA-SMF1&7-1-3	1337464	576742	54.1	4.0	2/26/2024	2.8	51.3	33	0.5-1.5	0.5	53.6
	PBA-SMF1&7-1-4	1337795	576738	54.7	4.0	2/26/2024	1.8	52.9	29	0.5-1.5	0.5	54.2
	PBA-SMF1&7-2-1	1338197	576878	55.5	5.0	2/26/2024	3.8	51.7	47	1.5-3.5	1.5	54.0
SMF 1&7-2	PBA-SMF1&7-2-2	1338322	576933	55.6	5.5	2/26/2024	2.8	52.8	47	1.5-3.5	1.5	54.1
SIVIF 107-2	PBA-SMF1&7-2-3	1338217	577127	56.6	6.5	2/26/2024	3.5	53.1	47	1.5-3.5	1.5	55.1
	PBA-FPC1-2-2	1338239	576642	54.5	5.0	2/26/2024	3.2	51.3	47	1.5-3.5	1.0	53.5
SMF 2-1	PBA-SMF2-1-1	1339488	576701	55.6	4.5	2/29/2024	2.8	52.8	29	0.5-1.5	1.0	54.6
SIVIF 2-1	PBA-SMF2-1-2	1339544	577000	57.0	4.5	2/29/2024	3.7	53.3	29	0.5-1.5	1.5	55.5
	PBA-SMF2-2-1	1339739	577423	57.3	5.0	2/28/2024	3.7	53.6	29	0.5-1.5	1.0	56.3
SMF 2-2	PBA-SMF2-2-2	1339893	577651	57.6	5.0	2/28/2024	4.0	53.6	29	0.5-1.5	1.5	56.1
	PBA-SMF2-2-3	1339784	577819	55.9	4.0	2/28/2024	2.3	53.6	29	0.5-1.5	0.5	55.4
	PBA-SMF3-1-1	1339962	577450	57.9	5.0	2/28/2024	4.1	53.8	29	0.5-1.5	1.5	56.4
SMF 3-1	PBA-SMF3-1-2	1340144	577556	57.6	4.5	2/28/2024	3.8	53.8	29	0.5-1.5	1.5	56.1
	PBA-SMF3-1-3	1340199	577922	58.1	6.0	2/28/2024	4.2	53.9	29	0.5-1.5	2.0	56.1
	PBA-SMF3-2-1	1340343	578153	59.1	5.5	2/28/2024	4.7	54.4	29	0.5-1.5	1.5	57.6
SMF 3-2	PBA-SMF3-2-2	1340110	578156	58.8	5.5	2/28/2024	4.4	54.4	21	0.5-1.5	1.5	57.3
SIVIF 3-2	PBA-SMF3-2-3	1339929	577849	57.4	5.5	2/28/2024	4.3	53.1	29	0.5-1.5	1.5	55.9
	PBA-SMF3-1-3	1340199	577922	58.1	6.0	2/28/2024	4.2	53.9	29	0.5-1.5	2.0	56.1
	PBA-Pond7-1	1341843	574466	48.0	6.5	2/29/2024	5.6	42.4	29	0.5-1.5	1.5	46.5
Pond 7	PBA-Pond7-2	1341529	574963	50.4	10.0	2/29/2024	7.7	42.7	5	+2.0-0.0	4.0	46.4
	PBA-Pond7-4	1340949	575027	49.8	5.5	2/29/2024	4.0	45.8	29	0.5-1.5	2.5	47.3
	PBA-SMF5-1-1	1342011	577401	57.0	4.5	2/28/2024	3.5	53.5	27	0.3-1.5	1.5	55.5
SMF 5-1	PBA-SMF5-1-2	1342008	577538	58.8	5.0	2/28/2024	4.1	54.7	29	0.5-1.5	2.0	56.8
	PBA-SMF5-1-3	1342145	577530	56.7	5.0	2/28/2024	3.9	52.8	29	0.5-1.5	1.5	55.2
	PBA-SMF5-2-1	1341756	576638	56.9	4.0	2/29/2024	2.8	54.1	29	0.5-1.5	1.0	55.9
SMF 5-2	PBA-SMF5-2-2	1341689	576837	56.7	4.0	2/29/2024	2.6	54.1	29	0.5-1.5	1.0	55.7
	PBA-SMF5-2-3	1341796	577004	57.0	4.5	2/29/2024	2.9	54.1	29	0.5-1.5	1.0	56.0
SMF 5-3	PBA-SMF5-3-1	1342763	576851	56.3	3.5	2/29/2024	2.0	54.3	29	0.5-1.5	1.0	55.3
SIVIF 3-3	PBA-SMF5-3-2	1342698	5771 51	57.2	5.0	2/29/2024	3.7	53.5	29	0.5-1.5	2.0	55.2
FPC 1-1	PBA-FPC1-1-1	1338161	5 76157	52.4	4.0	2/26/2024	2.3	50.1	29	0.5-1.5	0.5	51.9
FFC 1-1	PBA-FPC1-1-2	1338059	576260	52.6	4.0	2/26/2024	1.9	50.7	47	1.5-3.5	0.5	52.1
FPC 1-2	PBA-FPC1-2-1	1338265	576457	53.7	6.0	2/26/2024	2.7	51.0	47	1.5-3.5	1.0	52.7
FFU 1-2	PBA-FPC1-2-2	1338239	576642	54.5	5.0	2/26/2024	3.2	51.3	47	1.5-3.5	1.5	53.0

¹⁾ Boring locations and elevations were provided by the Project Surveyor.

⁽²⁾ Depth below existing grades at time of field exploration.

⁽³⁾ Seasonal high groundwater table depth estimated based on the Hillsborough County, Florida USDA Soil Survey information.

⁽⁴⁾ Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, the Hillsborough County, Florida USDA Soil Survey information and past experience with similar soil conditions.

Summary of Pond Site Alternative Seasonal High Groundwater Table Estimates McIntosh Road from S. of US 92 to N. of I-4 US 92/SR 600 From W. of McIntosh Road to E. of McIntosh Road Hillsborough County, Florida

FPID Nos. 447157-1-32-01 & 447158-1-32-01 Tierra Project Nos. 6511-21-035-001 & 6511-21-035-002

		Boring Location ⁽¹⁾		Surveyed	Dania a		Measured		USDA	Soil Survey	Es	timated
Pond Site	Boring	FL State P		Ground	Boring Depth ⁽²⁾		Groundwater T	able		Estimated	SI	HGWT ⁽⁴⁾
Alternative Name	Name	Northing	Easting	Elevation ⁽¹⁾	(feet)	Date	Depth ⁽²⁾	Elevation	Map Symbol	SHGWT ⁽³⁾ Depth	Depth ⁽²⁾	Elevation
		Northing	Easting	(feet, NAVD 88)	(leet)	Recorded	(feet)	(feet, NAVD 88)		(feet)	(feet)	(feet, NAVD 88)
	PBA-FPC2-1-1	1337865	577341	56.5	5.0	2/27/2024	3.8	52.7	29	0.5-1.5	1.5	55.0
FPC 2-1	PBA-FPC2-1-2	1337819	577550	58.2	5.5	2/27/2024	4.7	53.5	29	0.5-1.5	1.5	56.7
FFG 2-1	PBA-FPC2-1-3	1337706	577392	57.0	5.0	2/27/2024	4.1	52.9	29	0.5-1.5	2.0	55.0
	PBA-FPC2-1-4	1337635	577557	57.1	5.0	2/27/2024	4.3	52.8	29	0.5-1.5	1.5	55.6
FPC 2-2A	PBA-FPC2-2A-1	1338295	577439	56.7	5.5	2/27/2024	4.7	52.0	47	1.5-3.5	1.5	55.2
FFC 2-2A	PBA-FPC2-2A-2	1338443	577539	56.6	5.0	2/27/2024	3.4	53.2	47	1.5-3.5	1.0	55.6
	PBA-FPC2-2B-1	1338131	577395	55.3	3.5	2/27/2024	0.9	54.4	29	0.5-1.5	0.0	55.3
FPC 2-2B	PBA-FPC2-2B-2	1337955	577600	57.7	6.0	2/27/2024	4.3	53.4	29	0.5-1.5	2.0	55.7
FFC 2-2B	PBA-FPC2-2B-3	1338026	577861	57.9	6.0	2/27/2024	4.3	53.6	29	0.5-1.5	2.0	55.9
	PBA-FPC2-2B-4	1337974	578043	58.1	6.0	2/27/2024	4.7	53.4	29	0.5-1.5	2.0	56.1
	PBA-SMF2-2-1	1339739	577423	57.3	5.0	2/28/2024	3.7	53.6	29	0.5-1.5	1.0	56.3
FPC 3-1	PBA-SMF2-2-2	1339893	577651	57.6	5.0	2/28/2024	4.0	53.6	29	0.5-1.5	1.5	56.1
	PBA-SMF2-2-3	1339784	577819	55.9	4.0	2/28/2024	2.3	53.6	29	0.5-1.5	0.5	55.4
	PBA-FPC3-2-1	1339862	578537	57.4	5.0	2/28/2024	3.2	54.2	46	0.0-1.0	1.5	55.9
FPC 3-2	PBA-FPC3-2-2	1339737	578180	56.1	4.0	2/28/2024	2.6	53.5	46	0.0-1.0	0.0	56.1
FPC 3-2	PBA-FPC3-2-3	1339523	578548	58.0	5.0	2/28/2024	3.8	54.2	33	0.5-1.5	1.5	56.5
	PBA-FPC3-2-4	1339271	578241	56.9	4.5	2/28/2024	3.3	53.6	46	0.0-1.0	1.0	55.9
	PBA-FPC4-1-1	1341516	575944	55.9	4.0	2/29/2024	2.7	53.2	29	0.5-1.5	1.0	54.9
FPC 4-1	PBA-FPC4-1-2	1341442	576297	57.3	4.5	2/29/2024	2.6	54.7	29	0.5-1.5	1.5	55.8
FPC 4-1	PBA-FPC4-1-3	1341277	576176	56.6	3.5	2/29/2024	2.8	53.8	29	0.5-1.5	1.5	55.1
	PBA-FPC4-1-4	1341177	575958	56.1	4.5	2/29/2024	3.7	52.4	29	0.5-1.5	1.5	54.6
	PBA-FPC4-2-1	1341737	576478	57.1	4.5	2/29/2024	2.9	54.2	29	0.5-1.5	1.0	56.1
	PBA-FPC4-2-2	1341540	576515	57.3	4.5	2/29/2024	3.2	54.1	29	0.5-1.5	1.0	56.3
FPC 4-2	PBA-FPC4-2-3	1341375	576537	57.2	4.5	2/29/2024	3.0	54.2	29	0.5-1.5	1.5	55.7
	PBA-FPC4-2-4	1341493	576757	57.3	4.0	2/29/2024	3.0	54.3	29	0.5-1.5	1.5	55.8
	PBA-FPC4-2-5	1341491	577000	58.7	4.5	2/29/2024	2.4	56.3	29	0.5-1.5	1.0	57.7
	PBA-FPC5-1-1	1342357	577388	5 4.5	2.5	2/29/2024	1.7	52.8	29	0.5-1.5	0.5	54.0
FPC 5-1	PBA-FPC5-1-2	1342393	577525	55.1	3.5	2/29/2024	1.8	53.3	5	+2.0-0.0	0.5	54.6
	PBA-FPC5-1-3	1342258	577407	54.2	3.5	2/29/2024	1.7	52.5	5	+2.0-0.0	0.5	53.7
	PBA-SMF5-1-1	1342011	577401	57.0	4.5	2/28/2024	3.5	53.5	27	0.3-1.5	1.5	55.5
FPC 5-2	PBA-SMF5-1-2	1342008	577538	58.8	5.0	2/28/2024	4.1	54.7	29	0.5-1.5	2.0	56.8
	PBA-SMF5-1-3	1 342145	577530	56.7	5.0	2/28/2024	3.9	52.8	29	0.5-1.5	1.5	55.2

¹⁾ Boring locations and elevations were provided by the Project Surveyor.

⁽²⁾ Depth below existing grades at time of field exploration.

⁽³⁾ Seasonal high groundwater table depth estimated based on the Hillsborough County, Florida USDA Soil Survey information.

⁽⁴⁾ Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, the Hillsborough County, Florida USDA Soil Survey information and past experience with similar soil conditions.

Summary of Groundwater Table Measurements from Piezometers US 92/SR 600 from W. of McIntosh Road to E. of McIntosh Road Hillsborough County, Florida FPID No. 447157-1-32-01 Tierra Project No. 6511-21-035-002

Piezometer	Piezomete	r Location ⁽¹⁾	Ground Groundwater Elevation ⁽³⁾ Elevation ⁽²⁾ (feet, NAVD88)			
Name	Easting	Northing	(feet, NAVD88)	11/08/21	03/21/22	07/26/22
PZ-US92-469	579733	1339208	64.6	60.0	<59.8	<59.8
PZ-US92-481	580874	1339518	66.7	61.5	<61.7	<61.7

⁽¹⁾ State Plane coordinates of the piezometer locations were provided by Echezabal & Associates, Inc.

⁽²⁾ Ground elevations were provided by the project surveyor.

⁽³⁾ Groundwater elevations calculated by subtracting the depth to the groundwater from the surveyed ground elevation.



RON DESANTIS GOVERNOR 605 Suwannee Street Tallahassee, FL 32399-0450 KEVIN J. THIBAULT SECRETARY

MEMORANDUM

DATE: February 18, 2022

TO: Kisan Patel, District Geotechnical Materials Engineer

FROM: David Horhota, State Geotechnical Materials Engineer

SUBJECT: Embankment Resilient Modulus Pavement Design

District 7, Hillsborough County

FPN 447158-1: SR-600/US-92 From W of McIntosh Road to E of McIntosh Road

Five (5), 2-bag samples were received by the State Materials Office (SMO) for determination of an embankment (roadbed) resilient modulus for pavement design. After visual observation of the five samples, it was determined that the material from each 2-bag sample looked visually similar and the material from each of the bags were combined to form one sample from each location. After combining materials from the bags, samples from each location were obtained for classification tests (Atterberg limits, particle size analysis, and organic content), Proctor density, and resilient modulus. The classification test results are reported in Tables 1 and 2. Information provided for this project by Tierra, Inc. did not include sample depth.

Table 1. Summary of Initial Soil Gradation Results

Sample ID	Passing 3/4" (%)	Passing 1/2" (%)	Passing 3/8" (%)	Passing No. 4 (%)	Passing No. 10 (%)	Passing No. 40 (%)	Passing No. 60 (%)	Passing No. 100 (%)	Passing No. 200 (%)
SH-US92-420	100.0	100.0	99.9	99.7	99.3	90.9	60.2	28.5	7.2
SH-US92-435	100.0	100.0	100.0	100.0	99.8	90.4	57.7	25.7	6.6
SH-US92-451	100.0	100.0	100.0	99.8	99.7	91.1	59.8	26.5	7.7
SH-US92-466	100.0	100.0	100.0	100.0	99.9	93.3	68.2	31.8	8.2
SH-US92-481	100.0	100.0	99.9	99.8	99.6	90.1	60.7	26.1	5.6

Table 2. Summary of Soil Classification and Organic Content Results

Sample ID	Location	Soil Class.	Organic Content (%)	LL/PI
SH-US92-420	574957, 1338059	A-3	1.1	N.P.
SH-US92-435	576410, 1338433	A-3	1.9	N.P.
SH-US92-451	577961, 1338833	A-3	2.0	N.P.
SH-US92-466	579429, 1339124	A-3	1.1	N.P.
SH-US92-481	580882, 1339505	A-3	2.1	N.P.

In addition to the classification testing, the following test program was conducted:

- (1) Standard Proctor, AASHTO T 99
- (2) Resilient Modulus (M_R), AASHTO T 307.

A summary of laboratory test results is included in Table 3. The resilient modulus values listed in this table were obtained using the relationship developed from each individual test (resilient modulus versus bulk stress - with bulk stress, Θ , defined as $\Theta = \sigma_1 + \sigma_2 + \sigma_3$), and using a bulk stress of 11 psi, which is the recommendation from Dr. Ping's research work in modeling the embankment in-situ stresses for Florida pavement conditions. Two results are listed for each location because two samples were prepared for each location and they represent the individual test result from each sample tested. The resilient modulus samples were compacted to within 1 pound per cubic foot (pcf) of the maximum density and 0.5 percent of the optimum moisture content as determined by AASHTO T99.

Table 3. Summary of T-99 and M_R Test Results

Sample ID	Passing No. 200,	Standard Proctor Density, pcf	Optimum Moisture Content, %	Resilient Modulus @ O=11psi (psi)
SH-US92-420	7	112.8	11.4	12,547
311-0392-420	/	112.6	11.4	13,158
SH-US92-435	7	111.5	11.6	12,641
SH-US92-433		111.5	11.0	11,594
SH-US92-451	0	100.2	12.1	10,322
SH-US92-431	8	109.2	12.1	10,900
SH-US92-466	8	112.8	10.8	11,287
SH-US92-400	0	112.8	10.8	12,303
SH-US92-481	6	111.5	11.6	10,929
SH-US92-481	U	111.3	11.0	10,874

To obtain a design embankment resilient modulus, a 90 percent method was used as outlined in both the Flexible Pavement Design Manual and Soils and Foundations Handbook. The resilient modulus values were ranked in ascending order and the percentage of values which were greater than or equal to the individual value

were determined. The results of this analysis are recorded in Table 4 and the corresponding graph of these results is included as Figure 1.

Table 4. Ranked M	_R Test Results for 90	Percent Method
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Rank	Sample ID	% ≥	M _R (psi)
1	SH-US92-451 (1)	100	10,322
2	SH-US92-481 (2)	90	10,874
3	SH-US92-451 (2)	80	10,900
4	SH-US92-481 (1)	70	10,929
5	SH-US92-466 (1)	60	11,287
6	SH-US92-435 (2)	50	11,594
7	SH-US92-466 (2)	40	12,303
8	SH-US92-420 (1)	30	12,547
9	SH-US92-435 (1)	20	12,641
10	SH-US92-420 (2)	10	13,158

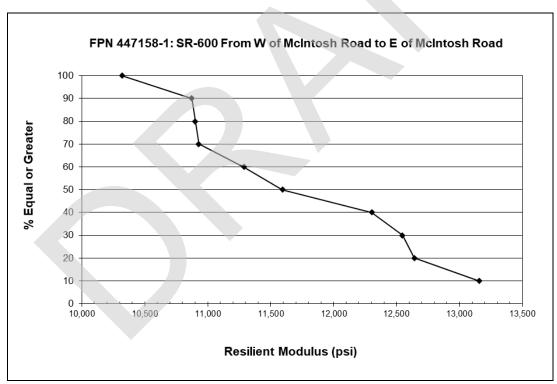


Figure 1. Ranked M_R Test Results for 90% Method

Based on the results shown in Table 4 and Figure 1, the resilient modulus corresponding to a 90^{th} percentile is **10,900 psi**, which would represent the design embankment M_R value.