APPENDIX A

SMF Calculations

SR 54 Project Development and Environment (PD&E) Study



ACE Project No. 5067054

Stormwater Management Facilities Sizing Calculations

For

Basins - 1, 2, 3, 4, 9, & 10

<u>Design Criteria</u> 100-year 10-day 20-inch storm Maximum design storage depth 3.5 ft

SR 54 Pond Sizing Calculations

TYPICAL SECTION I

6-lane divided "sub-urban" section with bike lanes and paths. From beginning of project to Meadow Pointe Blvd Existing curve number

Pervious curve number, CNep CNep := 80 based on D soil good condition

Impervious curve number, CNei := 98 pavement

Existing pavement width, IWe IWe := 24ft + 10ft

Existing ROW width, ROWe ROWe := 100ft

Weighted curve number, CNwe := $\frac{[\text{CNep} \cdot (\text{ROWe} - \text{IWe})] + (\text{CNei-IWe})}{\text{ROWe}}$ two 12 ft lanes + two 5 ft shoulders

CNwe = 86.12

Proposed conditions curve number

Pervious curve number, CNpp CNpp := 80 D soil

Impervious curve number, CNip CNpi := 98 pavement

Proposed impervious width, IWp = $6 \cdot 12 ft + 2 \cdot 4 ft + 4 \cdot 2 ft + 8 ft + 5 ft$ six 12 ft lanes + two 4 ft bike lanes

+ four 2 ft curbs + one 8 ft path + one 5 ft sidewalk

Proposed ROW width, ROWp ROWp := 166ft

Weighted curve number, CNwp := $\frac{[CNpp \cdot (ROWp - IWp)] + CNpi \cdot IWp}{CNwp} = 90.952$

Based on maximum storage depth in pond, design rainfall depth and treatment volume

Maximume storage depth, Msd := 3.5ft

Design rainfall depth, P P := 20in

Treatment volume depth, TVd := 1 in

Ponds := Msd - P - TVd Ponds = 1.75 ft

Length =
$$1550 f$$

Se :=
$$\frac{1000 \cdot in}{CNwe} - 10 \cdot in$$
 Se = 1.612 in

$$Se = 1.612 in$$

$$Sp := \frac{1000 \cdot in}{CNwp} - 10 \cdot in$$
 $Sp = 0.995 in$

$$Sp = 0.995 in$$

$$Ve := \frac{(Pd - 0.2 \cdot Se)^2}{Pd + 0.8 \cdot Se} \cdot Length \cdot ROWe \qquad Ve = 5.393 acre \cdot ft$$

$$Vp := \frac{(Pd - 0.2 \cdot Sp)^2}{Pd + 0.8 \cdot Sp} \cdot Length \cdot ROWp \qquad Vp = 9.28 \text{ acre} \cdot ft$$

$$Vp = 9.28 \, acre \cdot ft$$

Required attenuation volume

$$Vr := Vp - Ve$$

$$Vr := Vp - Ve$$
 $Vr = 3.887 acre \cdot ft$

Required pond area at water surface elevation
$$Paw := \frac{Vr}{Ponds}$$
 $Paw = 2.2 \, acre$

$$Paw := \frac{Vr}{Ponds}$$

$$Paw = 2.2 acre$$

Addition 25% area for maintenance requirements

$$SL := Pad^{0.5}$$

$$SL = 340.751 \, ft$$

Existing soil storage, Se
$$\frac{1000 \cdot \text{in}}{\text{CNwe}} - 10 \cdot \text{in}$$
 Se = 1.612 in

Proposed soil storage, Sp
$$Sp := \frac{1000 \cdot in}{CNwp} - 10 \cdot in$$
 $Sp = 0.995 in$

Proposed runoff volume
$$Vp := \frac{(Pd - 0.2 \cdot Sp)^2}{Pd + 0.8 \cdot Sp} \cdot Length \cdot ROWp$$
 $Vp = 19.699 \text{ acre} \cdot ft$

Required attenuation volume
$$V_r := V_p - V_e$$
 $V_r = 8.251 \, acre \cdot ft$

Required pond area at water surface elevation
$$Paw := \frac{Vr}{Ponds}$$
 $Paw = 4.7 acre$

Addition 25% area for maintenance requirements
$$Pad = Paw \cdot 120\%$$
 $Pad = 5.7 acre$

$$SL := Pad^{0.5}$$
 $SL = 496.443 \text{ ft}$

TYPICAL SECTION II

4-lane divided "sub-urban" section with bike lanes and paths. From Meadow Pointe Blvd to end of project

Existing curve number

Pervious curve number, CNep CNep := 80 based on D soil good condition

Impervious curve number, CNei := 98 pavement

Existing ROW width, ROWe ROWe = 100ft

Weighted curve number, CNwe := $\frac{[\text{CNep} \cdot (\text{ROWe} - \text{IWe})] + (\text{CNei} \cdot \text{IWe})}{\text{ROWe}}$ two 12 ft lanes + two 5 ft shoulders

CNwe = 86.12

Proposed conditions curve number

Pervious curve number, CNpp CNpp = 80 D soil

Impervious curve number, CNip CNpi := 98 pavement

Proposed impervious width, IWp $IWp := 4 \cdot 12ft + 2 \cdot 4ft + 4 \cdot 2ft + 8ft + 5ft$ four 12 ft lanes + two 4 ft bike lanes + four 2 ft curbs + one 8 ft path +

Proposed ROW width, ROWp := 166ft one 5 ft sidewalk

Weighted curve number, CNwp $= \frac{[CNpp \cdot (ROWp - IWp)] + CNpi \cdot IWp}{ROWp}$ = 88.349

Based on maximum storage depth in pond, design rainfall depth and treatment volume

Max storage depth, Msd Msd:= 3.50ft

Design rainfall depth, P P:= 20in

Ponds := Msd - P - TVd Ponds = 1.75 ft

Existing drainage Area, Ae

$$Ae := Length \cdot ROWe$$

Proposed drainage Area, Ap

Length $= 2134 \, ft$

Design precipitation 100 year 10 day rainfall, Pd Pd:= 20in

Se:=
$$\frac{1000 \cdot \text{in}}{\text{CNwe}} - 10 \cdot \text{in}$$
 Se = 1.612 in

Proposed soil storage, Sp

$$Sp := \frac{1000 \cdot in}{CNwp} - 10 \cdot in \qquad Sp = 1.319 in$$

$$Sp = 1.319i$$

Existing runoff volume

$$Ve := \frac{(Pd - 0.2 \cdot Se)^2}{Pd + 0.8 \cdot Se} \cdot Length \cdot ROWe \qquad Ve = 7.426 acre \cdot ft$$

$$Ve = 7.426 \, acre \cdot ft$$

Proposed runoff volume

$$Vp := \frac{(Pd - 0.2 \cdot Sp)^2}{Pd + 0.8 \cdot Sp} \cdot Length \cdot ROWp \qquad Vp = 12.54 acre \cdot ft$$

Required attenuation volume

$$V_r := V_p - V_e$$
 $V_r = 5.113 \, acre \cdot ft$

$$Vr = 5.113 \, acre \cdot ft$$

Required pond area at water surface elevation

$$Paw := \frac{Vr}{Ponds} \qquad Paw = 2.9 acre$$

$$aw = 2.9 acre$$

Addition 25% area for maintenance requirements

$$Pad = 3.5 acre$$

$$SL := Pad^{0.5}$$
 $SL = 390.802 \text{ ft}$

Alternative site 3C not in existing basin

$$Paw := \frac{Vr}{1 ft} \qquad Paw = 5.1 \text{ acre}$$

Existing drainage Area, Ae Ae := Length-ROWe

Proposed drainage Area, Ap Ap := Length-ROWp

Length = $1220 \, ft$

Design precipitation 100 year 10 day rainfall, Pd Pd:= 20in

Existing soil storage, Se $\frac{1000 \cdot \text{in}}{\text{CNwe}} - 10 \cdot \text{in}$ Se = 1.612 in

Proposed soil storage, Sp $Sp := \frac{1000 \cdot in}{CNwp} - 10 \cdot in$ Sp = 1.319 in

Existing runoff volume $V_e := \frac{(Pd - 0.2 \cdot Se)^2}{Pd + 0.8 \cdot Se} \cdot Length \cdot ROWe$ $V_e = 4.245 \text{ acre} \cdot ft$

Proposed runoff volume $Vp := \frac{(Pd - 0.2 \cdot Sp)^2}{Pd + 0.8 \cdot Sp} \cdot Length \cdot ROWp$ $Vp = 7.168 \, acre \cdot ft$

Required attenuation volume $V_r := V_p - V_e$ $V_r = 2.923 \, acre \cdot ft$

Required pond area at water surface elevation $Paw := \frac{Vr}{Ponds}$ Paw = 1.7 acre

Addition 25% area for maintenance requirements Pad := Paw-120% Pad = 2 acre

 $SL := Pad^{0.5}$ SL = 295.463 ft

Existing soil storage, Se
$$\frac{1000 \cdot \text{in}}{\text{CNwe}} - 10 \cdot \text{in}$$
 Se = 1.612 in

Proposed soil storage, Sp
$$Sp := \frac{1000 \cdot in}{CNwp} - 10 \cdot in$$
 $Sp = 1.319 in$

Proposed runoff volume
$$Vp := \frac{(Pd - 0.2 \cdot Sp)^2}{Pd + 0.8 \cdot Sp} \cdot Length \cdot ROWp$$
 $Vp = 21.562 \, acre \cdot ft$

Required attenuation volume
$$V_r := V_p - V_e$$
 $V_r = 8.792 \, acre \cdot ft$

Required pond area at water surface elevation
$$P_{aw} := \frac{Vr}{Ponds}$$
 $P_{aw} = 5.0 \, acre$

$$SL := Pad^{0.5}$$
 $SL = 512.455 \text{ ft}$

Existing soil storage, Se Se:=
$$\frac{1000 \cdot \text{in}}{\text{CNwe}}$$
 - $10 \cdot \text{in}$ Se = 1.612 in

Proposed soil storage, Sp
$$Sp := \frac{1000 \cdot in}{CNwp} - 10 \cdot in$$
 $Sp = 1.319 in$

Proposed runoff volume
$$\bigvee_{Pd} := \frac{\left(Pd - 0.2 \cdot Sp\right)^2}{Pd + 0.8 \cdot Sp} \cdot Length \cdot ROWp \qquad Vp = 8.813 \, acre \cdot ft$$

Required attenuation volume
$$V_r := V_p - V_e$$
 $V_r = 3.593 \, acre \cdot ft$

No apparent point of discharge for the system within study limits

Required pond area at water surface elevation
$$Paw = \frac{Vr}{Ponds}$$
 $Paw = 2.1 acre$

Addition 25% area for maintenance requirements
$$Pad := Paw \cdot 120\%$$
 $Pad = 2.5$ acre

$$SL := Pad^{0.5}$$
 $SL = 327.619 \text{ ft}$

SR 54 Project Development and Environment (PD&E) Study



ACE Project No. 5067054

Stormwater Management Facilities Sizing Calculations

For

Basins - 5, 6, 7 & 8

<u>Design Criteria</u> 100-year 24-hour 12-inch storm Maximum design storage depth 2.5 ft

TYPICAL SECTION II

4-lane divided "sub-urban" section with bike lanes and paths. From Meadow Pointe Blvd to end of project

Existing curve number

Pervious curve number, CNep

CNep := 80

based on D soil good condition

Impervious curve number, CNei

CNei:= 98

pavement

Existing pavement width, IWe

IWe := 24ft + 10ft

Existing ROW width, ROWe

ROWe := 100ft

Weighted curve number, CNwe

 $\underline{\text{CNwe}} := \frac{[\text{CNep} \cdot (\text{ROWe} - \text{IWe})] + (\text{CNei} \cdot \text{IWe})}{[\text{CNei} \cdot \text{IWe}]}$

two 12 ft lanes + two 5 ft shoulders

CNwe = 86.12

Proposed conditions curve number

Pervious curve number, CNpp

CNpp := 80CNpi := 98

Impervious curve number, CNip Proposed impervious width, IWp

 $IWp := 4 \cdot 12ft + 2 \cdot 4ft + 4 \cdot 2ft + 8ft + 5ft$

pavement

four 12 ft lanes + two 4 ft bike lanes +

four 2 ft curbs + one 8 ft path +

Proposed ROW width, ROWp

ROWD:= 166ft

one 5 ft sidewalk

Weighted curve number, CNwp

 $CNwp := \frac{[CNpp \cdot (ROWp - IWp)] + CNpi \cdot IWp}{CNwp \cdot ENpi \cdot IWp}$ ROWp

CNwp = 88.349

Based on maximum storage depth in pond, design rainfall depth and treatment volume

Max storage depth, Msd

Msd := 2.50 ft

Design rainfall depth, P

P := 12in

Treatment volume depth, TVd

TVd := 1in

Ponds := Msd - P - TVd

Ponds = $1.417 \, ft$

Existing soil storage, Se
$$\frac{1000 \cdot \text{in}}{\text{CNwe}} - 10 \cdot \text{in}$$
 Se = 1.612 in

Proposed soil storage, Sp
$$Sp := \frac{1000 \cdot in}{CNwp} - 10 \cdot in$$
 $Sp = 1.319 in$

Existing runoff volume
$$Ve := \frac{(Pd - 0.2 \cdot Se)^2}{Pd + 0.8 \cdot Se} \cdot Length \cdot ROWe$$
 Ve = 3.396 acre·ft

Proposed runoff volume
$$Vp := \frac{(Pd - 0.2 \cdot Sp)^2}{Pd + 0.8 \cdot Sp} \cdot Length \cdot ROWp$$
 $Vp = 5.797 \text{ acre-ft}$

Required attenuation volume
$$V_r := V_p - V_e$$
 $V_r = 2.4 \, acre \cdot ft$

Required pond area at water surface elevation
$$Paw = \frac{Vr}{Ponds}$$
 $Paw = 1.7 acre$

$$SL = Pad^{0.5}$$
 $SL = 297.607 \text{ ft}$

Existing drainage Area, Ae

Proposed drainage Area, Ap

Length = $1330 \, ft$

Design precipitation 100 year 10 day rainfall, Pd Pd:= 12in

Length = $0.252 \,\mathrm{mi}$

Existing soil storage, Se

Se:=
$$\frac{1000 \cdot \text{in}}{\text{CNwe}} - 10 \cdot \text{in}$$
 Se = 1.612 in

Proposed soil storage, Sp

$$Sp := \frac{1000 \cdot in}{CNwp} - 10 \cdot in \qquad Sp = 1.319 in$$

$$Sp = 1.319 in$$

Existing runoff volume

$$Ve := \frac{(Pd - 0.2 \cdot Se)^2}{Pd + 0.8 \cdot Se} \cdot Length \cdot ROWe \qquad Ve = 2.611 acre \cdot ft$$

Proposed runoff volume

$$Vp := \frac{(Pd - 0.2 \cdot Sp)^2}{Pd + 0.8 \cdot Sp} \cdot Length \cdot ROWp \qquad Vp = 4.456 acre \cdot ft$$

Required attenuation volume

$$V_r := V_p - V_e$$
 $V_r = 1.845 \, acre \cdot f_t$

$$Vr = 1.845 \, acre \cdot ft$$

Required pond area at water surface elevation $Paw := \frac{Vr}{Ponds}$ Paw = 1.3 acre

$$Paw := \frac{Vr}{Ponds}$$

$$Paw = 1.3 acre$$

Addition 25% area for maintenance requirements

$$Pad = 1.6 acre$$

$$SL := Pad^{0.5}$$
 $SL = 260.944 \text{ ft}$

Existing drainage Area, Ae

Proposed drainage Area, Ap

Length = $3290 \, ft$

Length = $0.623 \, \text{mi}$

Design precipitation 100 year 10 day rainfall, Pd Pd:= 12.in

Se:=
$$\frac{1000 \cdot \text{in}}{\text{CNwe}} - 10 \cdot \text{in}$$
 Se = 1.612 in

Existing soil storage, Se

$$Sp := \frac{1000 \cdot in}{CNwp} - 10 \cdot in \qquad Sp = 1.319 in$$

$$Sp = 1.319 in$$

Existing runoff volume

Proposed runoff volume

$$Ve := \frac{(Pd - 0.2 \cdot Se)^2}{Pd + 0.8 \cdot Se} \cdot Length \cdot ROWe \qquad Ve = 6.459 acre \cdot ft$$

$$Vp := \frac{(Pd - 0.2 \cdot Sp)^2}{Pd + 0.8 \cdot Sp} \cdot Length \cdot ROWp \qquad Vp = 11.023 acre \cdot ft$$

Required attenuation volume

$$V_r := V_p - V_e$$
 $V_r = 4.565 \, acre \cdot ft$

$$Vr = 4.565 \, acre \cdot f$$

Required pond area at water surface elevation $Paw = \frac{Vr}{Ponds}$ Paw = 3.2 acre

$$Paw := \frac{Vr}{Ponds}$$

$$Paw = 3.2 acre$$

Addition 25% area for maintenance requirements

Pad :=
$$Paw \cdot 120\%$$
 Pad = 3.9 acre

$$Pad = 3.9 acre$$

$$SL := Pad^{0.5}$$
 $SL = 410.411 ft$

Existing soil storage, Se
$$\frac{1000 \cdot \text{in}}{\text{CNwe}} - 10 \cdot \text{in}$$
 Se = 1.612 in

Proposed soil storage, Sp
$$Sp := \frac{1000 \cdot in}{CNwp} - 10 \cdot in$$
 $Sp = 1.319 in$

Existing runoff volume
$$Ve := \frac{(Pd - 0.2 \cdot Se)^2}{Pd + 0.8 \cdot Se} \cdot Length \cdot ROWe$$
 Ve = 5.261 acre-ft

Proposed runoff volume
$$Vp := \frac{(Pd - 0.2 \cdot Sp)^2}{Pd + 0.8 \cdot Sp} \cdot Length \cdot ROWp$$
 $Vp = 8.98 \, acre \cdot ft$

Required attenuation volume
$$V_r = V_p - V_e$$
 $V_r = 3.719 \,\text{acre-ft}$

Required pond area at water surface elevation
$$\frac{Paw}{Paw} = \frac{Vr}{Ponds}$$
 Paw = 2.6 acre

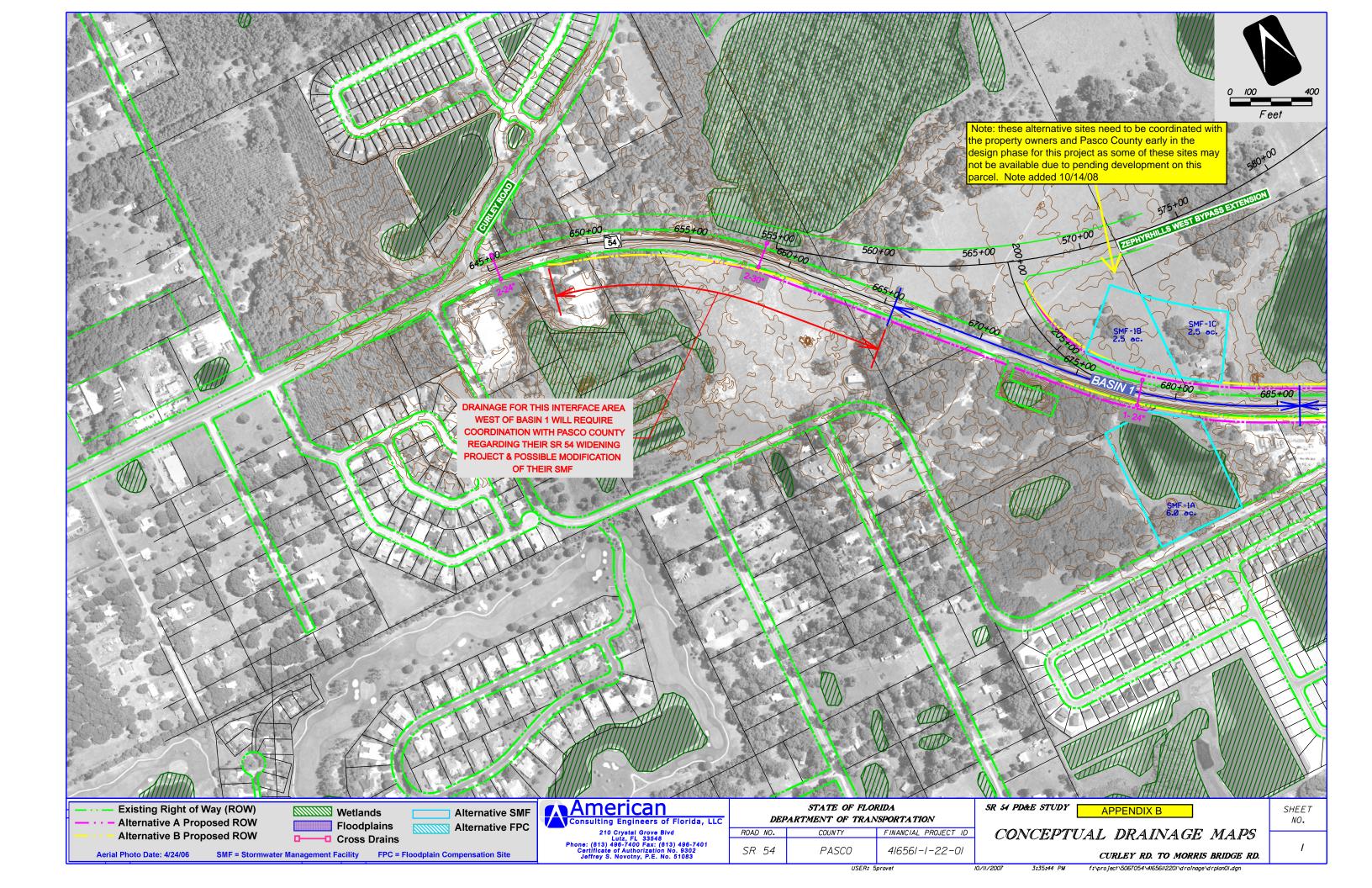
Addition 25% area for maintenance requirements
$$Pad = Paw \cdot 120\%$$
 Pad = 3.1 acre

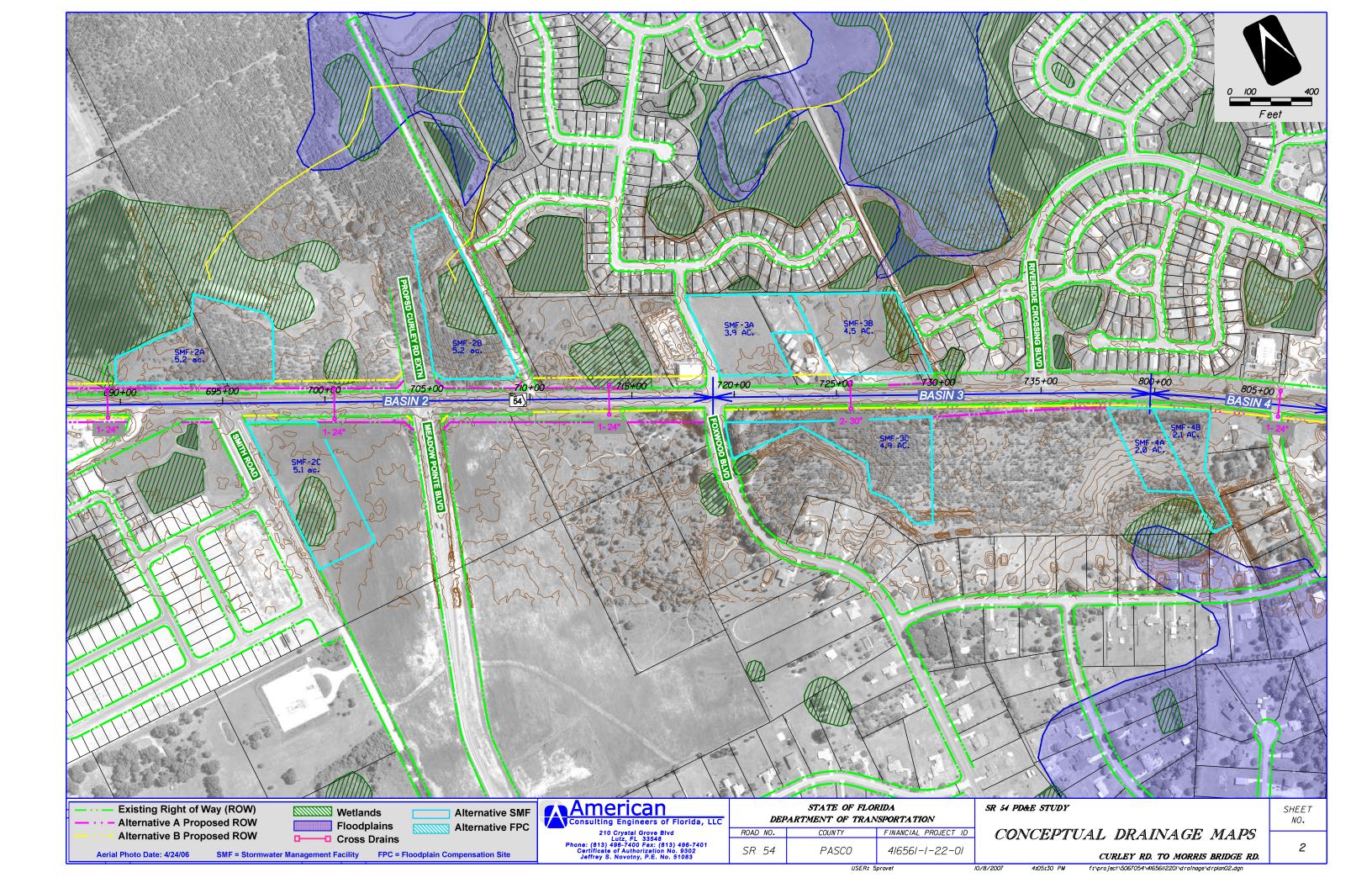
$$SL := Pad^{0.5}$$
 $SL = 370.415 \text{ ft}$

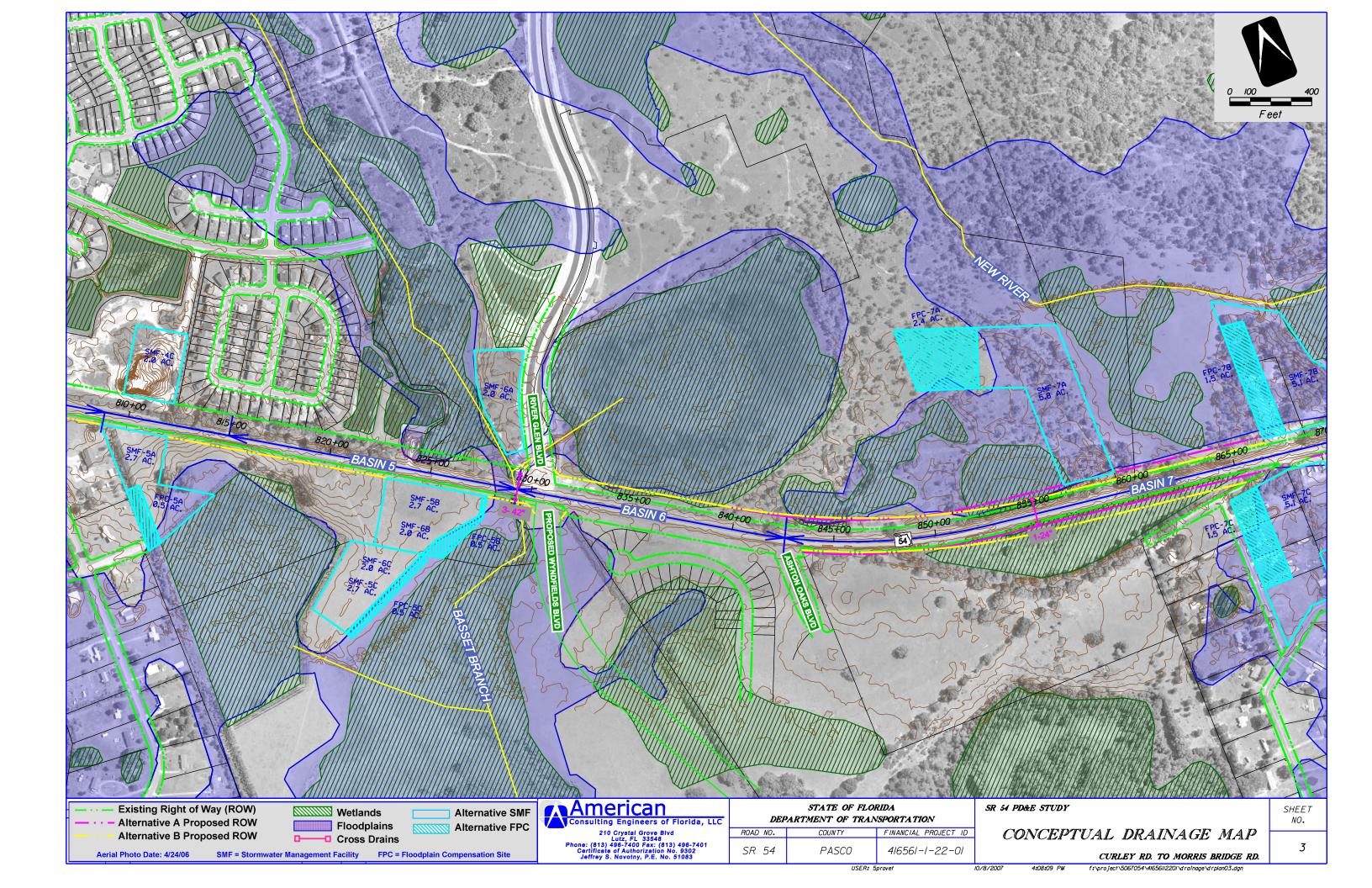
APPENDIX B

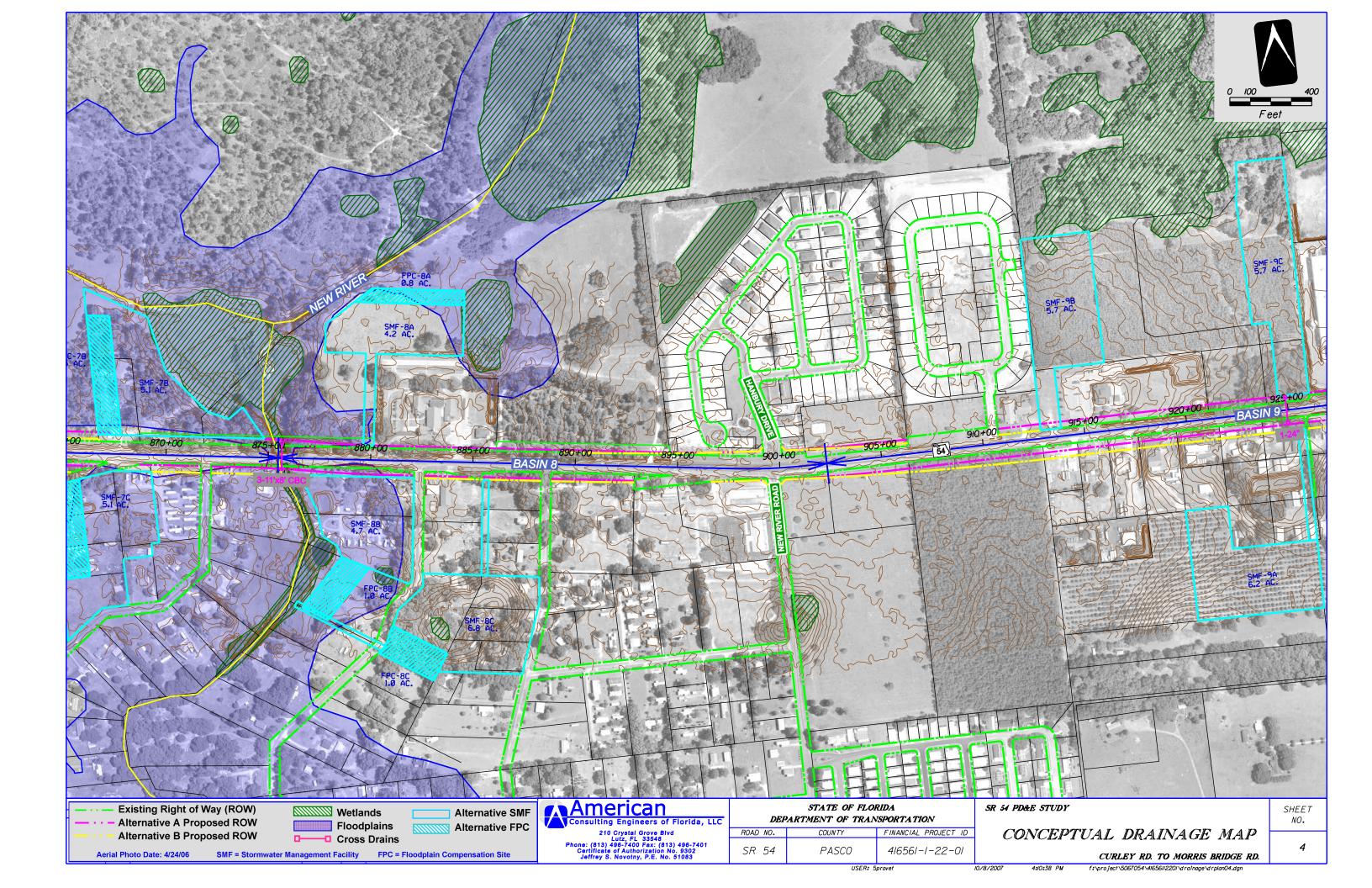
Conceptual Drainage Maps

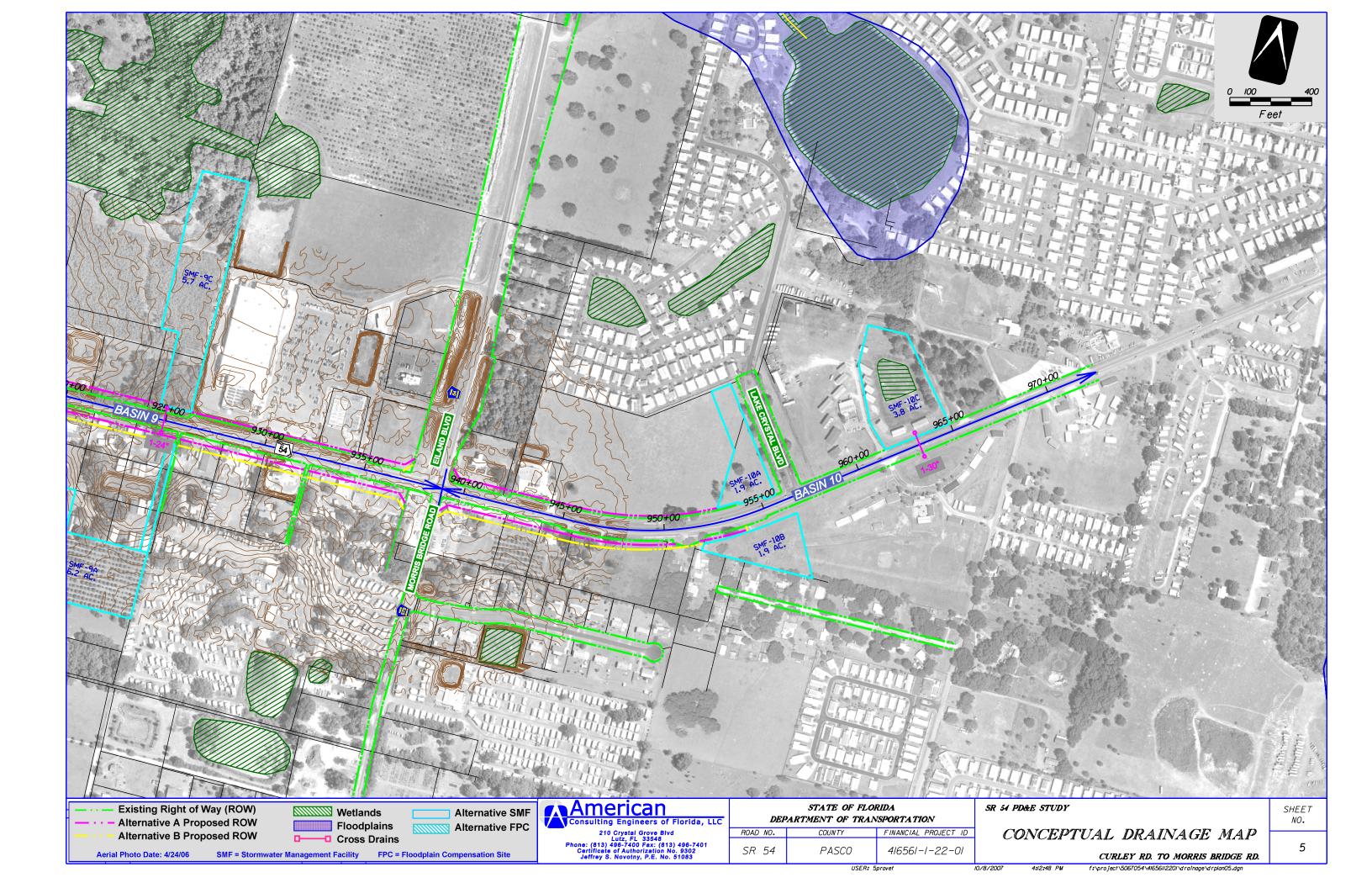
With Alternative SMF Sites

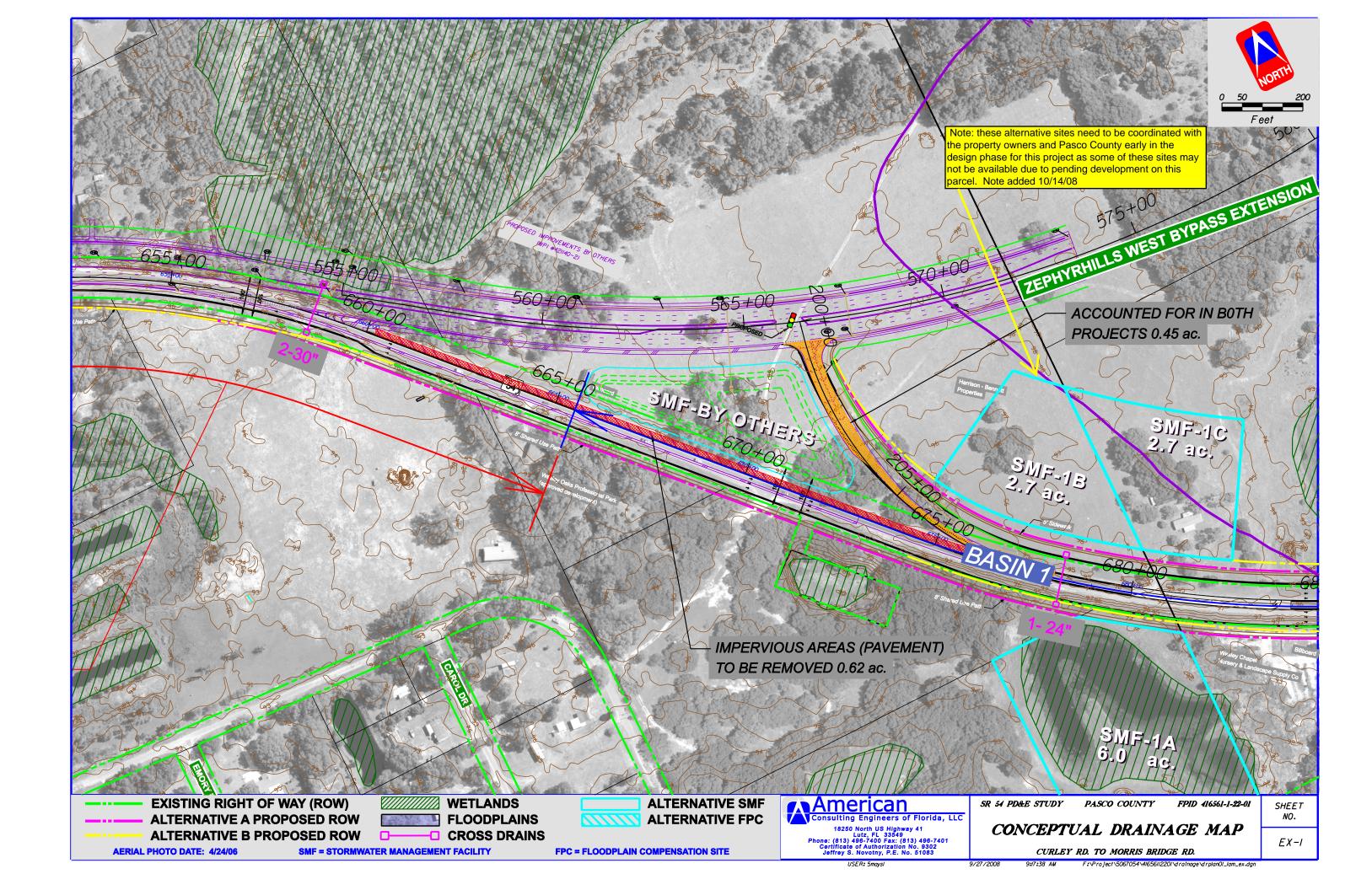












APPENDIX C

Agency Coordination



American Consulting Engineers of Florida, LLC

4111 Land O' Lakes Boulevard, Suite 210 Land O' Lakes, Florida 34639 Tel 813.996.2800 • Fax 813.996.1908 american@ace-fla.com • www.ace-fla.com

SWFWMD PRE APPLICATION MEETING MINUTES

Meeting Date:	Feb 6, 2008	Date Issued:	Mar 13, 2008	
Location:	SWFWMD Brooksville Office			
Project Name:	S.R. 54 PD&E Study from Curley Road to Morris Bridge Road			
Purpose:	To discuss stormwater management permitting criteria			
Notes by:	Michael Ryan	Amer	ican Project #:	5067054
Copies to:	Attendees, Jeff Novotny, Bill Adams, File: 5067054.B.03			

<u>Attendees</u>	Representing	<u>Phone</u>	<u>Fax or e-mail</u>
Leonard Bartos	SWFWMD	352-796-7211	
David Urban	SWFWMD	352-796-7211	
John Kilgore	American Consulting Engineers	727-499-5764	jkilgore@ace-fla.com
Larry Weatherby	American Consulting Engineers	813-496-7409	lweatherby@ace-fla.com
Michael Ryan	American Consulting Engineers	813-996-2800	mryan@ace-fla.com

The following notes reflect our understanding of the discussions and decisions made at this meeting. If you have any questions, additions or comments, please contact us at the above address. We will consider the minutes to be accurate unless written notice is received within 10 working days of the date issued.

Project Introduction

The meeting began at about 1:05 p.m. American distributed a project fact sheet and an aerial overview sheet showing the project limits and currently proposed typical sections.

Existing Drainage Concerns

SWFWMD indicated that they have some issues with the permitted stormwater management system for the Wiregrass development concerning flood elevations and stormwater modeling. SWFWMD recommended that Andrea Bolling with SWFWMD be contacted during the design phase to discuss any proposed stormwater management system designs within this area. The Watergrass development should also be discussed with Andrea.

If the Wiregrass Development chooses to design their system to accept drainage from the roadway to meet development conditions as apposed to providing a separate facility there are concerns that the current design is not adequate. American's current evaluation identifies a separate stormwater management pond facility, not connected to the Wiregrass Development SWM facility.

SWFWMD identified that there are areas within the New River Basin with flooding issues. American was advised to contact Richard Mayor and Dave Arnold at SWFWMD regarding Trout Creek Basin, Cypress Creek Basin and New River Basin.

American had identified flooding problems along the corridor for adjacent offsite development but no flooding issues were found to exist with the roadway facility. Floodplain compensation is considered and included in the design of the improvement. There will be no adverse floodplain impacts associated with this project.

American was advised to contact Pasco County regarding drainage issues within the study area. Pasco County may be considering designating portions of the basin areas within and adjacent to the study area as basins of special concern, which would include stricter permitting regulations and design criteria, 100-year 5-day design storm. American was advised to contact Jim Widman and Mike Garrett at Pasco County to discuss.

American had previously contacted Mike Garett with Pasco County on November 17 2006 to discuss flooding concerns within the study area. Mike Garett had stated at that time that there have been no reports of S.R. 54 being overtopped by floodwaters.

Design Criteria

SWFWMD Criteria would require that the proposed stormwater management system be designed per open basin criteria (25-yr 24-hr) and shall also be designed for the ultimate typical section. American was advised to contact Wojciech Mroz at SWFWMD to discuss possible sensitive basin criteria and design storm frequencies.

American explained that in sizing alternative pond sites to provide stormwater management for the proposed improvements the requirements for both the SWFWMD and FDOT's Critical Duration for stormwater quantity control as set forth in F.A.C. 14-86 were met. For a closed basin, F.A.C. 14-86 requires storage of the post development minus pre development runoff volume for the 100-year 10-day storm event, and for an open basin the 100-year 24-hr storm event.

SWFWMD agreed that the criteria set forth in F.A.C. 14-86 exceeds the SWFWMD requirements and will govern for the pond sizing design.

Environmental and Floodplain

All wetland impacts for the proposed roadway improvements will be mitigated for either using the Senate Bill or through purchase of credits in a regional mitigation bank. Any other wetland impacts such as for the placement of a pond in wetlands will be discouraged by the SWFWMD. Reference the FDOT Mitigation Plan 2008 for the proposed mitigation within and/or adjacent to the project limits.

There are no sovereign lands within the project limits and no Outstanding Florida Waters treatment will be required. All wetland buffer requirements are as described in the SWFWMD Environmental Resource Permit Information Manual, Part B, Basis of Review, no additional buffer required.

Floodplain compensation (cup for cup) will be required for any floodplain encroachments.

American has included a cup-for-cup evaluation as part of the stormwater management evaluation. Alternative floodplain compensation areas have been identified.

Adjacent Developments

During the design phase all adjacent property owners must be notified – SWFWMD must receive an electronic copy of all adjacent property owners during the design phase. There are adjacent developments within the project limits with requirements for right-of-way dedication and drainage provisions. Calculations must be submitted during the design phase for all adjacent developments that are accepting right-of-way runoff to confirm that their stormwater management systems are designed with sufficient capacity to account for water quality and quantity requirements.

Future Requirements

SWFWMD stated that Florida DEP may revise the state water quality standards, raising treatment volume requirements in 2009 to 2011.

The meeting adjourned at about 1:45 p.m.

Attachments:

- ERP Pre-Application Meeting Notes, completed by Dave Urban with SWFWMD
- Notes from Wojciech Mroz with SWFWMD

THIS SPACE IS FORMATTED TO FACILITATE AND GUIDE THE DIALOGUE DURING A PRE-APPLICATION MEETING AND PROVIDE NOTE TAKING SPACE. A SUPPLEMENTAL "PROMPT LIST" OF DISCUSSION ITEMS IS ATTACHED, WHICH SHOULD BE EXAMINED BY THE APPLICANT PARTIES PRIOR TO THE MEETING TO IDENTIFY TOPICS FOR DISCUSSION.				
	Southwest Florida Water Management District Resource Regulation Division ERP Pre-Application Meeting NOTES	FILE No.		
Date: Z. C Time: V. C Project Nam Attendees:	DAVE UIZIDAN LIEM POARTOS MIKE RYAN			
County: 🎾	S/T/R: 9,1 acreage: Project acreage:	0,13,14,15/26/20 18/26/21		
Prior Onsite	Offsite Permit activity: 4.5 mile			
Project Oyel	rview: . ung of an existing two lane.	to 4 lane .		
Site Information Discussion: (Site Topography, SHW Levels, Flood plain Elevations, Conveyance and Storage, Tailwater Conditions, Adjacent Offsite Contributing Sources, Receiving Waterbody, Karst Formations, Existing Wells, Contaminated Sites / Coordination w/ FDEP, etc.)				
· Open F	Basin			
Environmental Discussion: (Wetlands Onsite, Wetlands On Adjacent Properties, Site Visit, Delineation, Permanent/Temporary Impacts, SHWL, Wetland Hydrology, Drawdown Issues, Alternatives Analysis, Elimination/Reduction, Secondary and Cumulative Impacts, T&E species, Conservation Easements, Buffers, Mitigation Options, Mitigation Costs, OFW, Aquatic Preserve, etc.) WETLANDS — 7 Acat Impacts — NoT DISCUSSED SENATE BILL MITIGATION — POSSIBLE ? ?				
Sovereign La Application, Asses	ands Discussion: (Title Determination, Delegated Authority, Correct Formssment of Fees, Coordination with FDEP, etc.)	n of Authorization, Content of		
Requirements, Ot		Pre/Post Discharge, Local Live - Burld 4 4 6		
· 254r	· Floor plain comp ve	90. Cup for cup.		

Wat Systems Dreuss with Voy Jek beganding Sensitue bosin Criteria and event frequency Sugaent property owner notification for Jaking ERPPre-Application Meeting NOTES Page 1 of 2 Eslectronic Copey 41.00-107 (09/00)

Water Quality Discussion: (Type of Stormwater Treatment, Technical Characteristics, Non-presumptive Alternatives,

Construction Phase Water Management and Erosion Control, Contaminated Sites, Ground Water Protection, etc.)

OPERATIONAL ERP Pre-Application Meeting NOTES

Operation And Maintenance, Legal Information: (Ownership or Perpetual Control, Eminent Domain, Work on District Property, Inspections During Const., O&M Entity, System O&M Instructions, Homeowner Association Documents, Coastal Zone Requirements, Public Safety, etc.)			
· Columber			
Application Type And Fee Required: (40D-4.041Permits Required, 40D-1.607 Fee Schedule, etc.) - Gudinidual 2500.			
Other: (Future Pre-Application Meetings, Fast Track, Submittal Date, Construction Start Date, Required District Permits - WUP, WOD, Well Construction, etc.)			
• The second of			
Disclosure: 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 complete 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.			
The following person was present and authored these ERP Pre-Application Meeting NOTES on behalf of the SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT:			
District Staff Representative Name and Title			
Signed Date			

Calendar Entry

Meeting

			en a strait sa contact a militaria, anta simina indicisso e and manera as a loss sorte as accessor.		
Subject	Mike Ryan- 813-996-2800	Chair	Pre-Application Brooksville-Regulation/BKV_REG/swf wmd		
When	Starts Wed 02/06/2008 01:00 PM 30 mins Ends Wed 02/06/2008 01:30 PM		Sent By Zulima Lugo		
Invitees	Len Bartos/BKV_REG/swfwmd@swfwmd, Required (to) Wojciech Mroz/BKV_REG/swfwmd@swfwmd	Where Categorize	Location		
	Optional (cc) mryan@ace-fla.com		Compared the property of the second of the s		

Description

Name: Mike Ryan

Address: Curley Rd. to Morris Bridge Rd.

Attendees: WMM,LFB

Project Name: SR 54 P, D, & E

Phone: 813-996-2800

County: Pasco

STR: 9,10,13,14,15/26S/20E & 18/26S/21E

☐ Notify me

Mark Private

Your Notes

TROUT CRACK, CYPRASS ORGEL

NEW RIVER WATERSHEDS

- SOURCE OF FWOO INFO
RICHARD BAYER

\$ DAVE ARNOLO

* WIREGRASS (ANDREA)