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Pinellas County
PUBLIC WORKS

Pre-App Meeting
10:00 am 11/3/05

October 6, 2005

Ms. Michelle Hopkins, P.E.
Tampa Regulation Department
Southwest Florida Water Management District
7601 Highway 301 North
Tampa, FL 33637-6759

Re: Update on Proposed Tarpon Woods Drainage Improvements

Dear Michelle:

This letter is provided to you as an update on the status of the proposed drainage project to alleviate flooding and standing water in the Tarpon Woods area. As you know, we met twice with you and staff to discuss if the proposed work could be accomplished as an emergency project. Based upon the decision to require the normal permitting activities, we have proceeded with project engineering and modeling.

One of the critical issues presented by SWFWMD staff during our meetings in your office and in the field, was the "avoidance and minimization" of impacts to the jurisdictional areas adjacent to, and within, Brooker Creek. We have developed a new design to accomplish that. The new alignment, which has been field reviewed by Pat Frantz, locates the proposed piped system on the east side of the golf course fairway, opposite from that originally proposed, thereby reducing the potential jurisdictional area impacts to merely the outfall point of the proposed system into Brooker Creek. (Please refer to the attached aerial plan with the proposed improvements.) We have worked closely with the owners of the golf course to develop an agreement to construct this piped system.

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As you may recall, it was originally our intent to divert some of the Creek flow into a parallel pipe system to reduce the flow rate and hence the peak stage in the Creek. Upon further modeling analysis, utilizing the FEMA study of Brooker Creek updated in 2002, the Creek's peak flow rate (*2,600 cubic-feet-per-second (cfs) for the 100-year event*) could not be sufficiently reduced in the proposed piped system to allow the peak stage to be contained within the floodplain of the Creek. As a result, we modified our focus from augmenting flow in the Creek to providing an alternate discharge point for the pond systems within the golf course and the subdivision. This was accomplished by isolating the golf course/subdivision system from Brooker Creek at its connection point along the north end of the golf course, and rerouting flow from the golf course/subdivision's ponds south to connect to Brooker Creek just upstream of the bridge at Tarpon Woods Boulevard. This approach takes advantage of the lower hydraulic grade at this location, since the Creek loses over six feet in hydraulic grade as it meanders through the golf course during critical storm events (*i.e. HGL of 6 versus HGL of 12*).

PLEASE ADDRESS REPLY TO:
440 Court Street
Clearwater, Florida 33756
Phone: (727) 464-3251
Website: www.pinellascounty.org

THIS DOES NOT CONTAIN EXEMPT INFO

(727) 464-3642

87

The results, according to our modeling, lower the peak stage in the ponds from around elevation 12 to an elevation under 10 for events up to the five-year storm. The Creek overtops the banks in the area at an approximate elevation of 12, therefore any storms producing an elevation above 12, overtop the banks and inundate the golf course and the subdivisions as it does now. However, with the construction of a gated-weir system on the pipes connecting the golf course to the Creek, and establishment of a continuous elevation of 12 along the Creek berms allows for Creek stages below elevation 12 to be routed past the areas which currently flood.

Additionally, regardless of storm event, the piped system should reduce the peak pond stage (*by lowering pond stages in advance of large storm events, thereby increasing available pond storage*) and improve recovery time (*by discharging at the lower hydraulic grade*). Preliminary modeling also indicates virtually no change in the peak stage of the Creek as a result of rerouting the pond flow, and the Creek flow rate is equivalent for pre and post flow rate conditions as it passes under the Tarpon Woods Boulevard bridge. As expected, no substantial downstream effects have been noted, since no additional flows will be introduced into the Creek, with minimal affects to the time of concentration.

Your availability around the middle of October for a pre-submittal meeting would be greatly appreciated to further discuss this revised approach, prior to our permit submittal proposed for late October/early November. Our very aggressive project schedule calls for construction of these improvements commencing in early April 2006, which necessitates advertisement in late December 2005. We have discussed this project with yourself and Rand Baldwin, and we have been given assurances that you will work with us to quickly expedite review. This will be critical, as we only have permission from the golf course owners to construct these improvements between April 2006 and July 2006, before the rain and hurricane season develops and the subdivision is again threatened with floodwaters. The combination of a good relationship with the golf course, minimization of wetland impacts, and demonstration to the District of very modest changes to the hydraulics of Brooker Creek are eagerly expected to result in a timely solution of this long-standing problem. We also realize that this is not the ultimate remedy to the problem – it will only alleviate some of the flooding problems until the final resolution is addressed in the ongoing Watershed Master Plan.

Thank you for your cooperation in this endeavor.

Sincerely,

Michael P. Maroney, P.E.
Pinellas County Public Works
Senior Engineer, Surfacewater Division

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
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cc: Commissioner Ronnie Duncan
J. Keith Wicks, P.E, Assistant County Administrator
Jan R. Herbst, P.E, Director of Public Works
Jorge M. Quintas, P.E., Director of Engineering
Sandy Kelley, Surface Water Division Manager
Project File

POND 2R

POND 1

POND 4

1 - 48" H.D.P.E.

1 - 48" H.D.P.E.

POND 5

POND 8

POND 7

POND 6

1 - 60" H.D.P.E.

EAST LAKE ROAD

TARPON WOODS BLVD.

TONYWOODS

BRIAN ROAD

NORTH

SCALE IN FEET

Imaged As Is

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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT RECEIVED OCT 7 2005 RRD-TAMPA

TARPON WOODS DRAINAGE IMPROVEMENTS

DRAINAGE MAP

SEC. 34 TWNSHP. 27 s RNG. 16 e

PINELLAS COUNTY, FLORIDA
Department of Public Works
ENGINEERING DEPARTMENT
440 COURT STREET
CLEARWATER, FLORIDA 33756-5136
PHONE (727) 464-3251

MICHAEL P. MARONEY, P.E.
FLORIDA PROFESSIONAL ENGINEER NO. 39914
DATE

DATE: SEPTEMBER, 2005
PROJECT I.D. 001360
SURVEY FILE NO.: 1294
SHEET: 9 of 24

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POND 2R

POND 1

POND 4

1 - 48" H.D.P.E.

1 - 48" H.D.P.E.

POND 5

POND 8

POND 7

POND 6

1 - 60" H.D.P.E.

EAST LAKE ROAD

TARPON WOODS BLVD.

BRIAN ROAD

TONIWOODS

NORTH

SCALE IN FEET 200 0 200 400

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TARPON WOODS DRAINAGE IMPROVEMENTS

DRAINAGE MAP

SEC. 34 TWNSHP. 27 s RNG. 16 e

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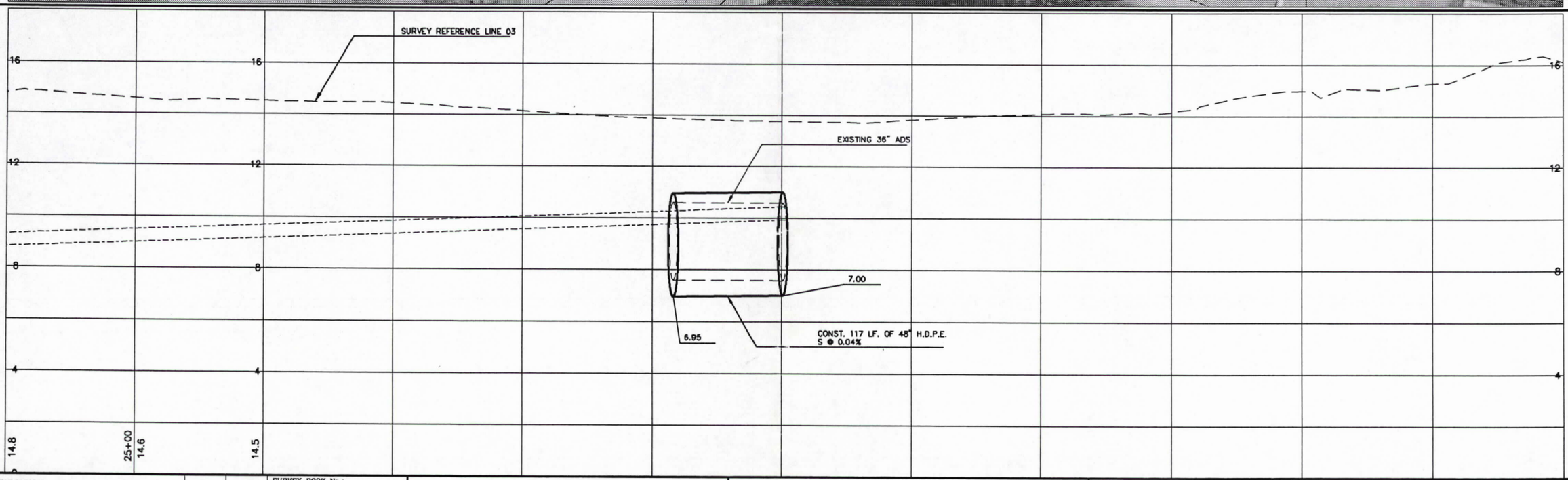
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69

MATCH LINE STA. 24+50
SEE SHEET 17 OF 30

END CONSTRUCTION
STA. 27+50.44





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TARPON WOODS DRAINAGE IMPROVEMENTS

PLAN PROFILE
TARPON WOODS GOLF COURSE
STA. 24+50 to 27+50.44

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FLORIDA PROFESSIONAL ENGINEER NO.

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DATE: RAINAGE
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SHEET: 18 of 30

70

MATCH LINE STA. 19+50
SEE SHEET 16 OF 30

MATCH LINE STA. 24+50
SEE SHEET 18 OF 30

SCALE 1IN = FEET

CONST. 551 LF. OF 8' WIDE ASPHALTIC CART PATH

CONST. 478 LF. OF 48" H.D.P.E. S @ 0.08%

CONST. 55 LF. OF 48" H.D.P.E. S @ 0.18%

PROPOSED 30' WIDE DRAINAGE EASEMENT

S-16

S-17

SRL3

NORTH

20+00 21+00 22+00 23+00 24+00 25+

SURVEY REFERENCE LINE 03

EXISTING TOPOGRAPHY OVER PIPE

6" RECLAIMED WATER LINE

4" WATER MAIN

3.50

3.40

14.2 20+00 14.0 13.6 21+00 13.3 13.0 22+00 12.4 14.6 23+00 14.9 14.7 24+00 14.2 14.8 25+00 14.6 14.5

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TARPON WOODS DRAINAGE IMPROVEMENTS

PLAN PROFILE
TARPON WOODS GOLF COURSE
STA. 19+50 to 24+50

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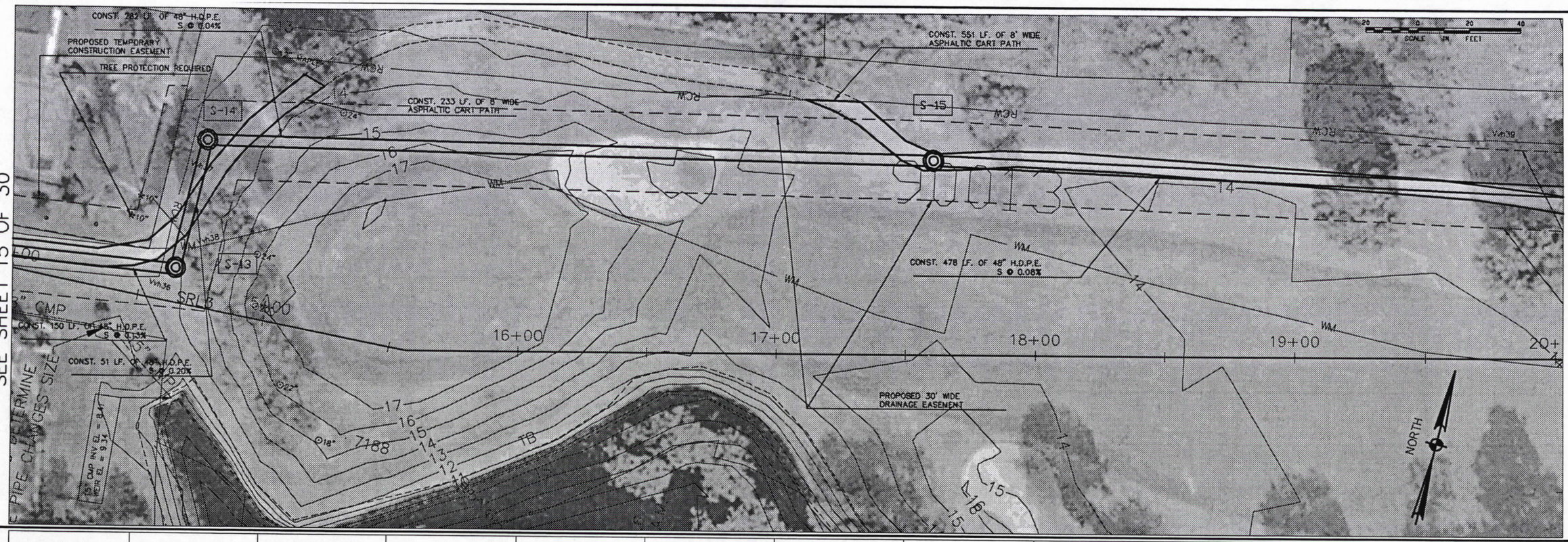
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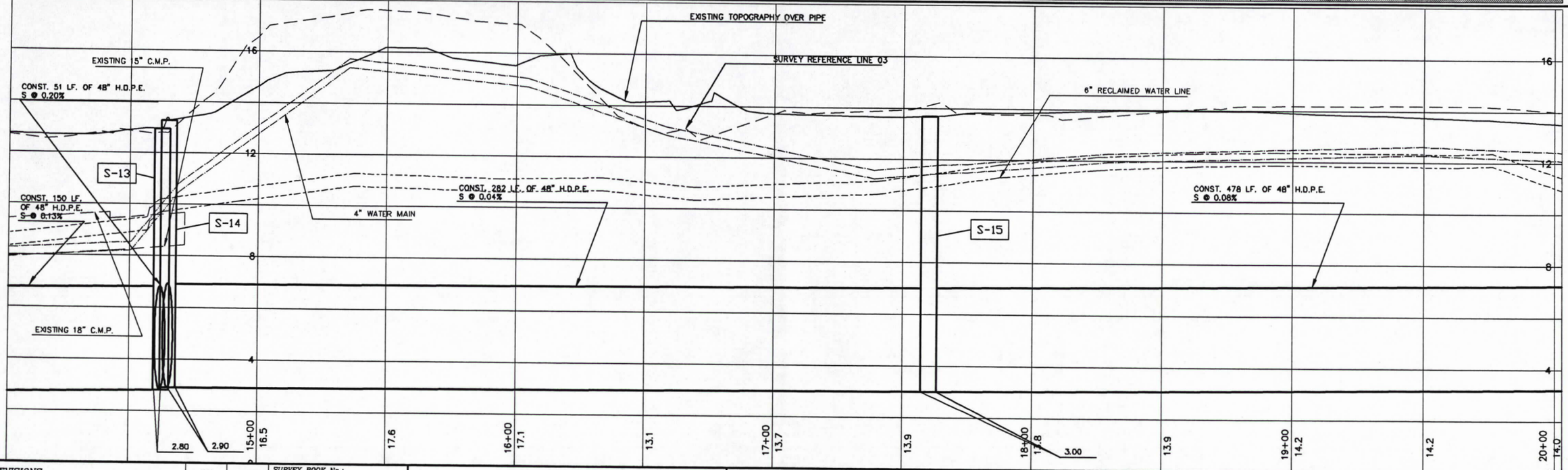
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71

MATCH LINE STA. 14+50
SEE SHEET 15 OF 30



MATCH LINE STA. 19+50
SEE SHEET 17 OF 30



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TARPON WOODS DRAINAGE IMPROVEMENTS

PLAN PROFILE
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STA. 14+50 to 19+50

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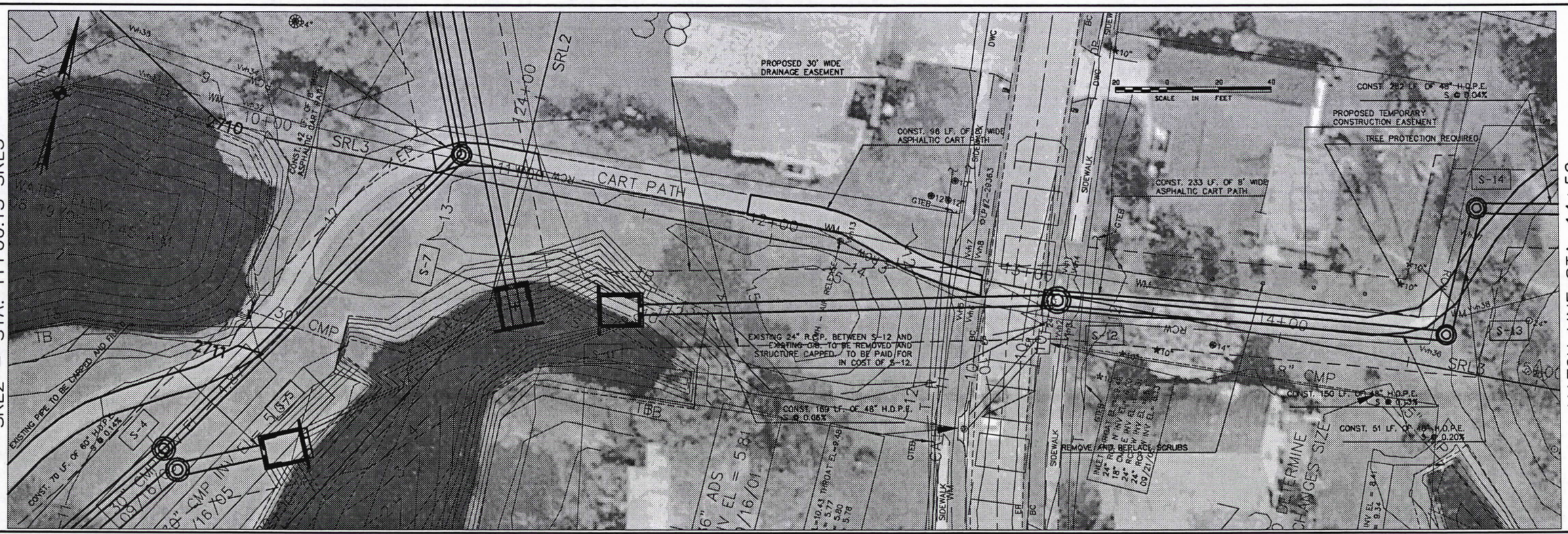
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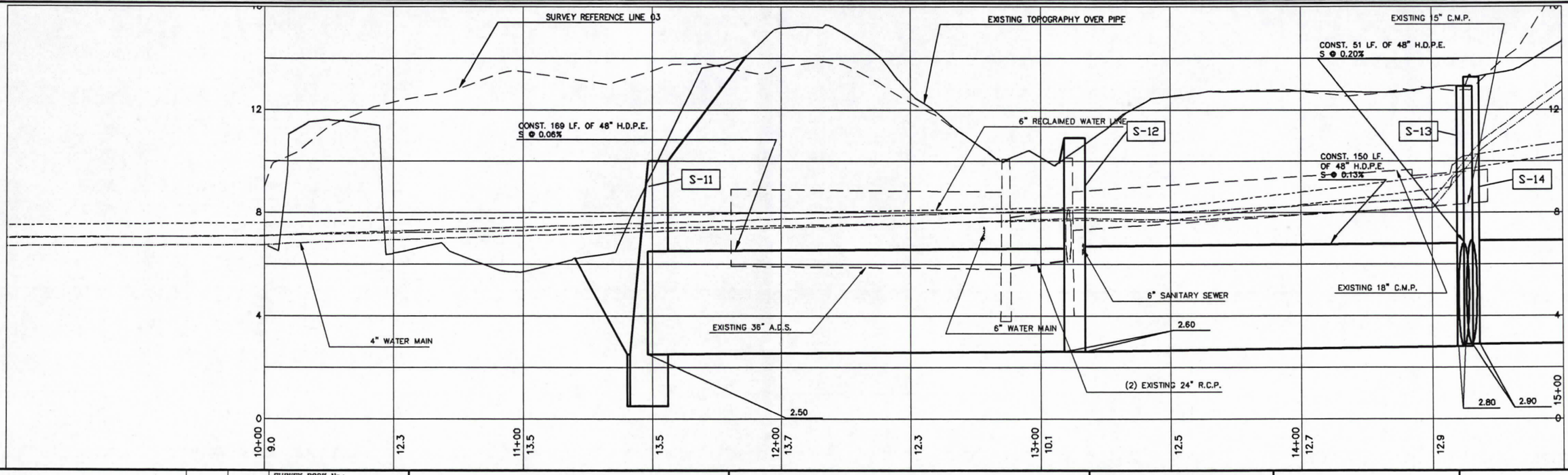
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72

EQUATION STATION: STA. 123+64.47
SRL2 = STA. 11+00.13 SRL3

MATCH LINE STA. 14+50
SEE SHEET 16 OF 30





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TARPON WOODS DRAINAGE IMPROVEMENTS

PLAN PROFILE
TARPON WOODS GOLF COURSE
STA. 11+00.13 to 14+50

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DATE: RAINAGE
PROJECT I.D. 001360
SURVEY FILE NO.: 1294
SHEET: 15 of 30

MATCH LINE STA. 129+00
SEE SHEET 13 OF 30

END CONSTRUCTION
STA. 134+90.02



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TARPON
WOODS
DRAINAGE
IMPROVEMENTS

PLAN PROFILE
TARPON WOODS GOLF COURSE
STA. 129+00 to 134+90.02

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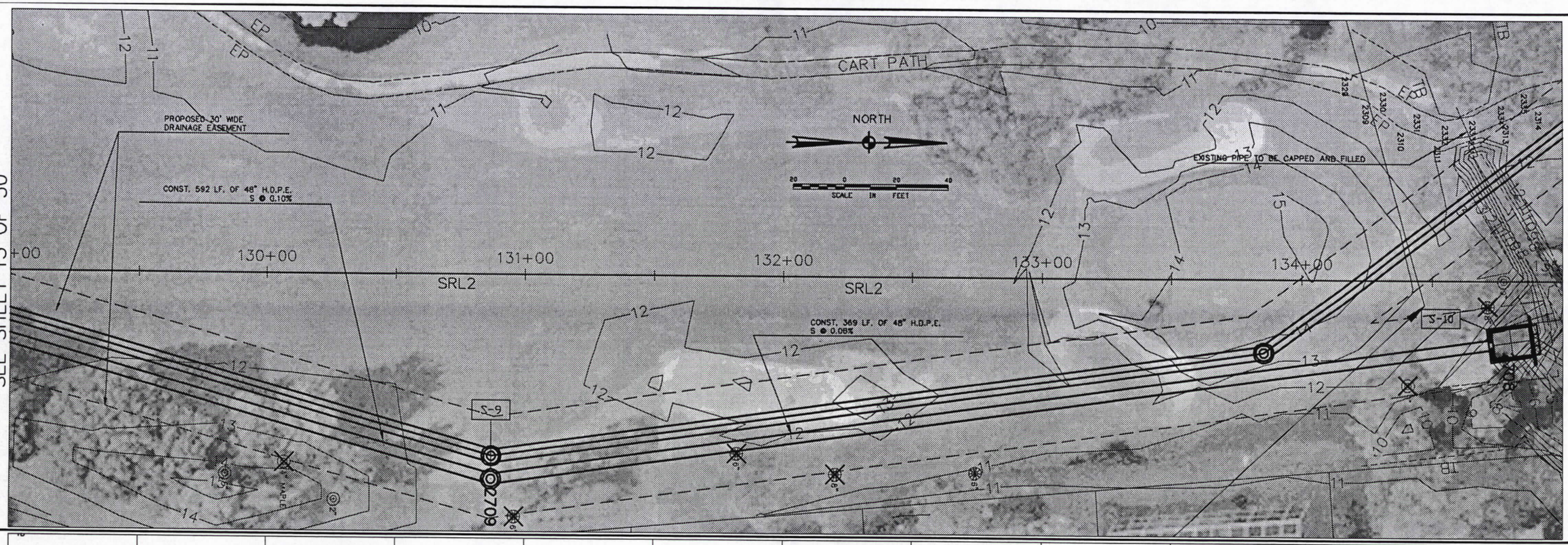
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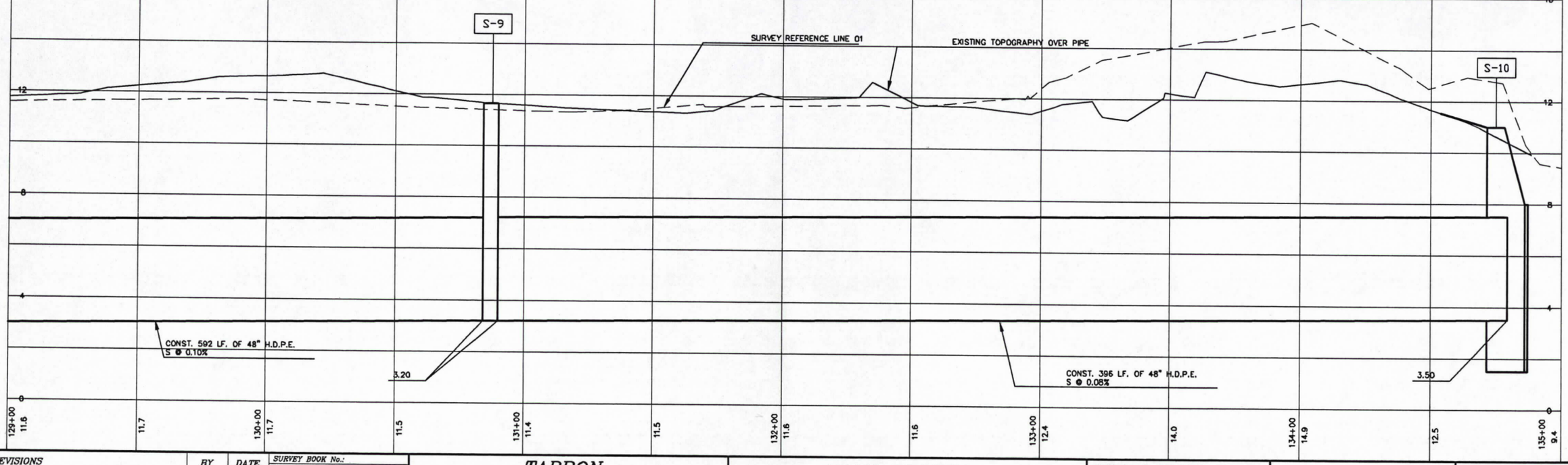
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MATCH LINE STA. 129+00
SEE SHEET 13 OF 30

END CONSTRUCTION
STA. 134+90.02





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TARPON WOODS DRAINAGE IMPROVEMENTS

PLAN PROFILE
TARPON WOODS GOLF COURSE
STA. 129+00 to 134+90.02

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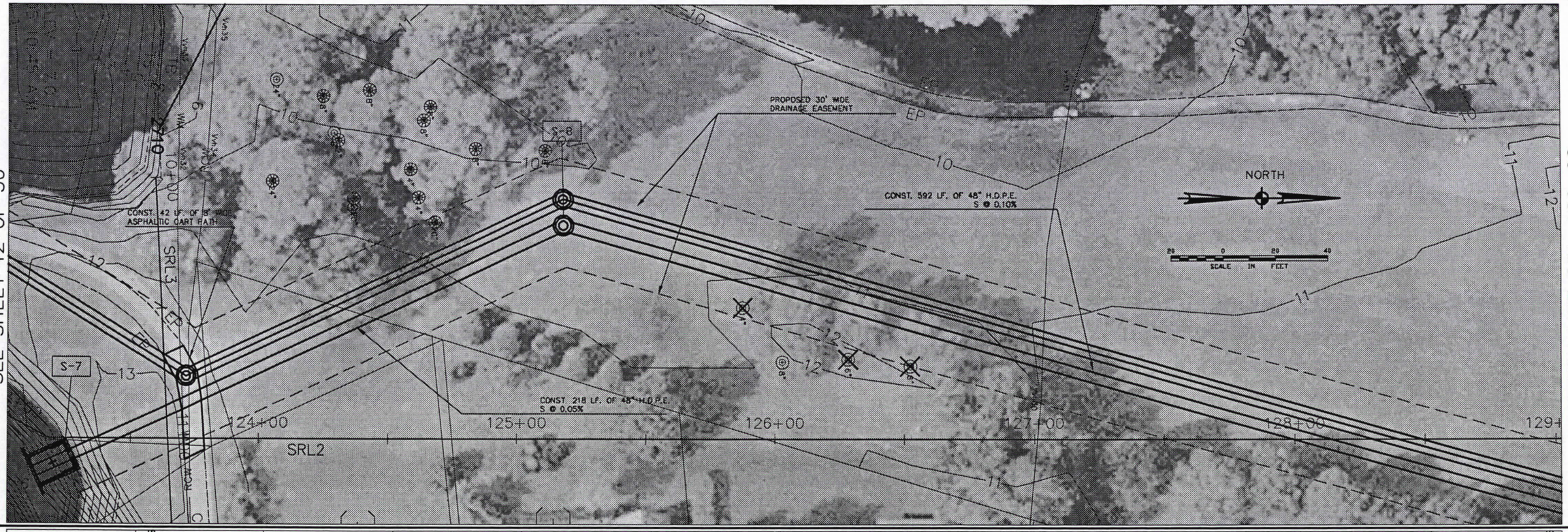
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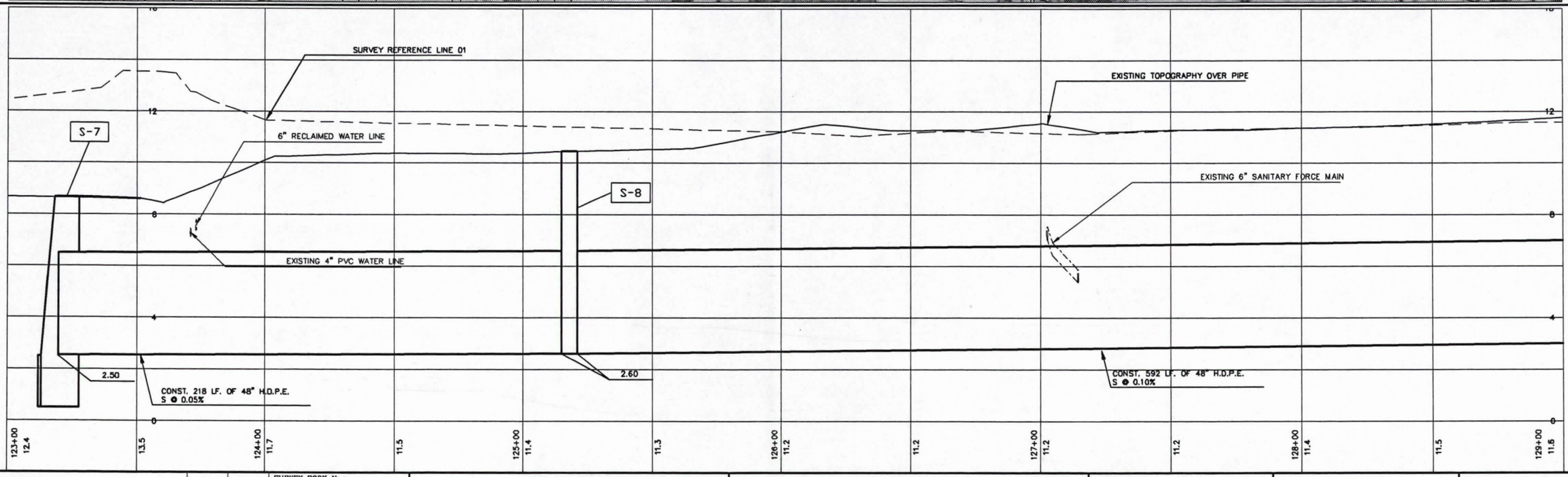
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MATCH LINE STA. 123+00
SEE SHEET 12 OF 30

MATCH LINE STA. 129+00
SEE SHEET 13 OF 30





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TARPON WOODS DRAINAGE IMPROVEMENTS

PLAN PROFILE
TARPON WOODS GOLF COURSE
STA. 123+00 to 129+00

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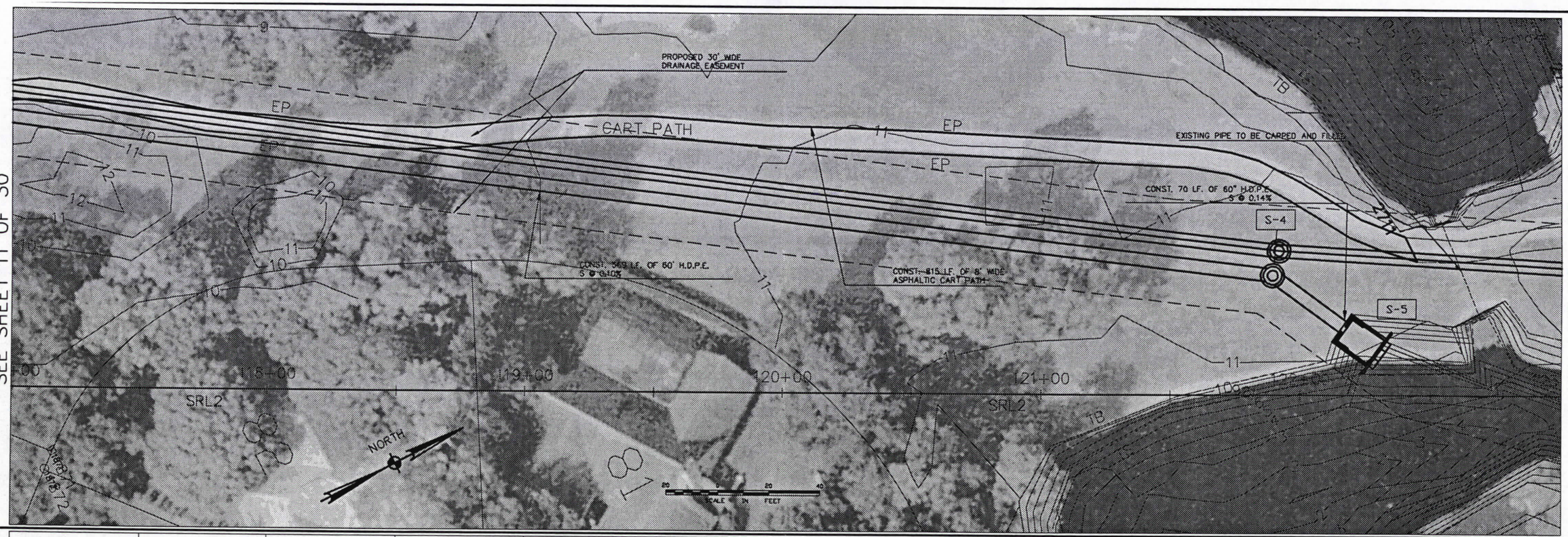
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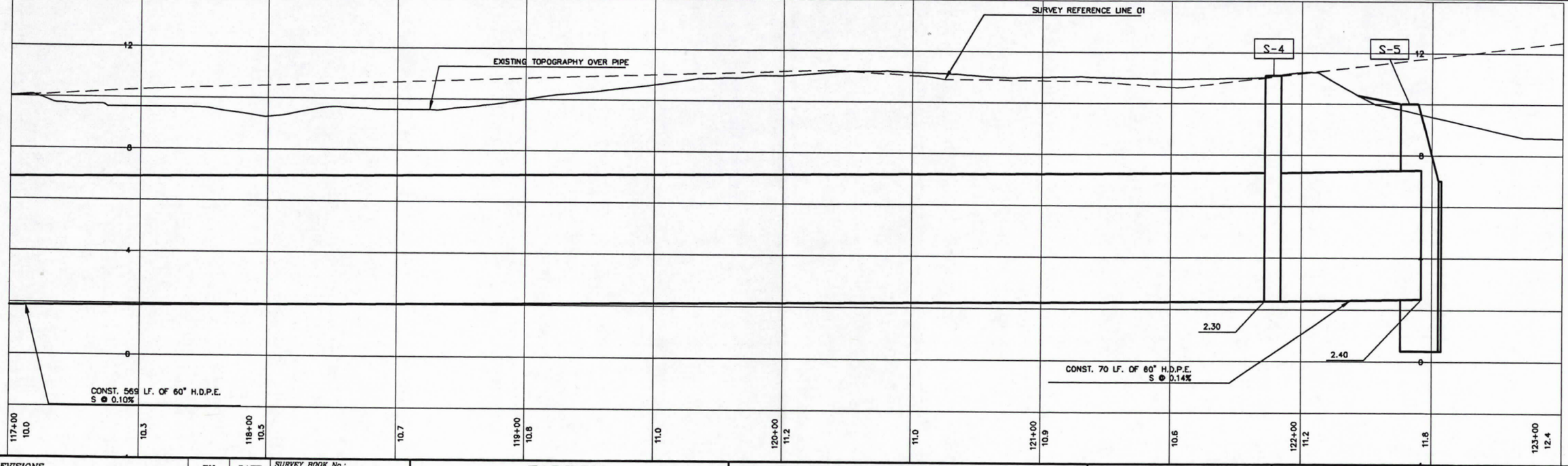
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DATE: SEPTEMBER 19, 2005
PROJECT I.D. 001360
SURVEY FILE NO.: 1294
SHEET: 13 of 30

MATCH LINE STA. 117+00
SEE SHEET 11 OF 30

MATCH LINE STA. 123+00
SEE SHEET 13 OF 30





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TARPON WOODS DRAINAGE IMPROVEMENTS

PLAN PROFILE
TARPON WOODS GOLF COURSE
STA. 117+00 to 123+00

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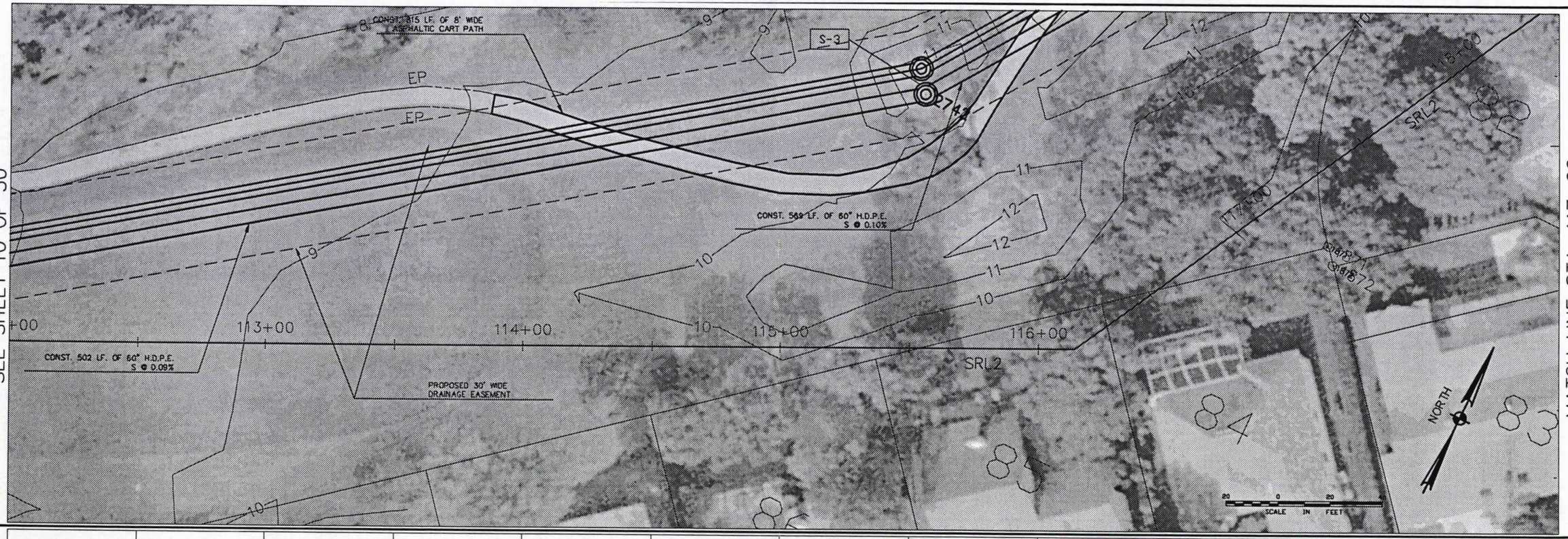
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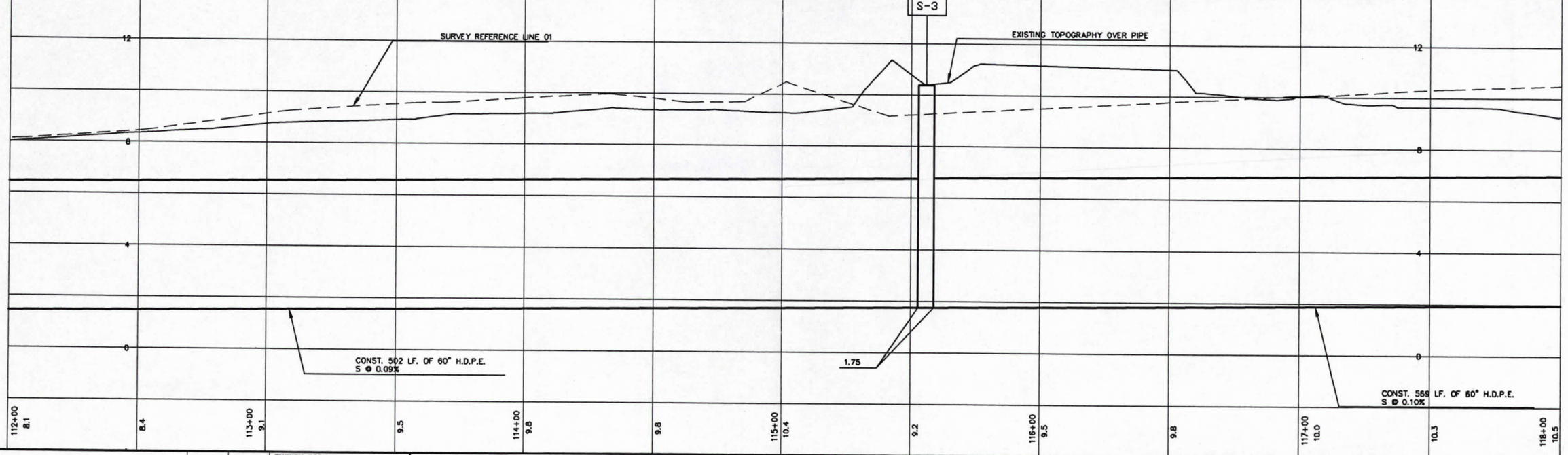
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MATCH LINE STA. 112+50
SEE SHEET 10 OF 30

MATCH LINE STA. 117+00
SEE SHEET 12 OF 30





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TARPON WOODS DRAINAGE IMPROVEMENTS

PLAN PROFILE
TARPON WOODS GOLF COURSE
STA. 112+50 to 117+00

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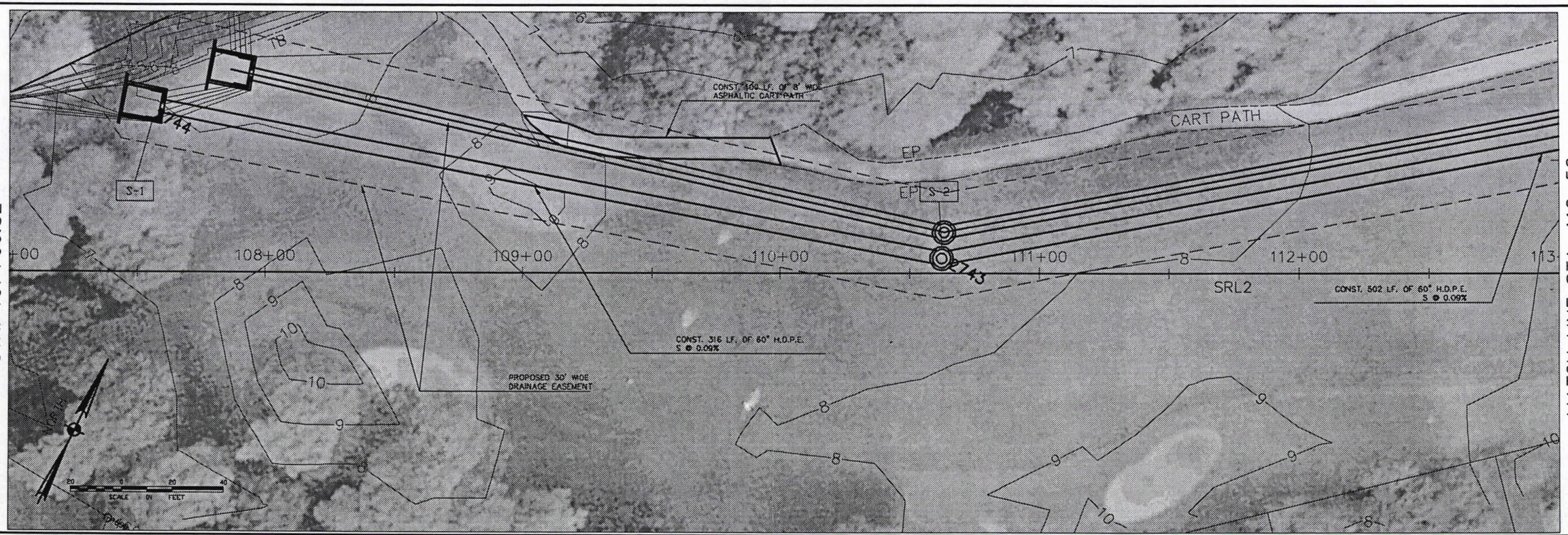
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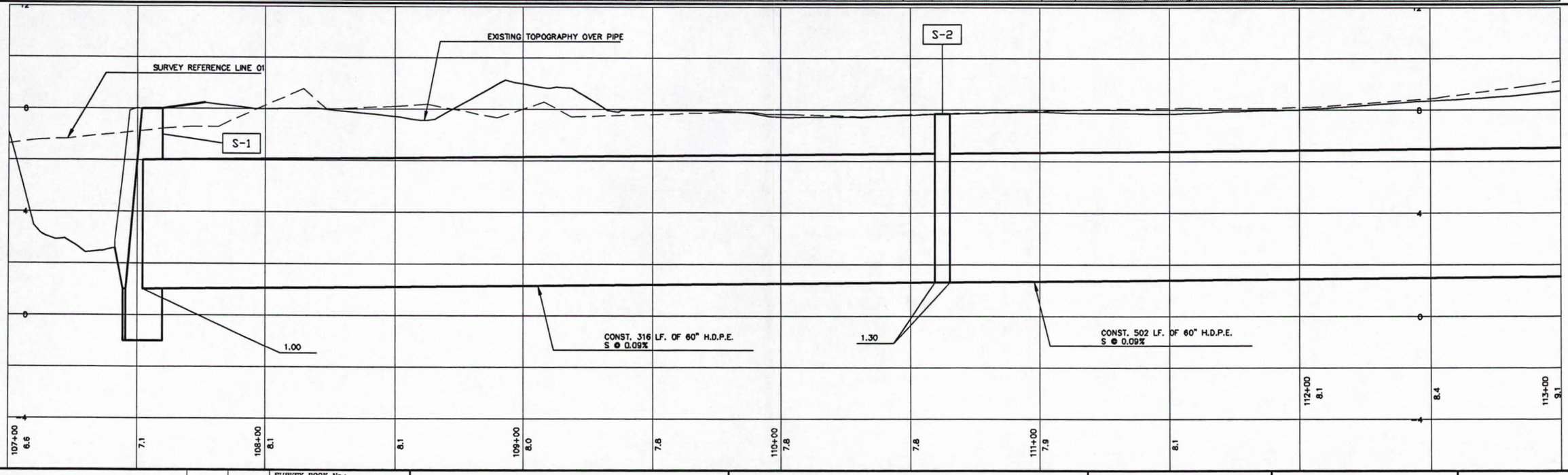
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BEGIN CONSTRUCTION
STA. 107+00.52

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SEE SHEET 11 OF 30





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TARPON WOODS DRAINAGE IMPROVEMENTS

PLAN PROFILE
TARPON WOODS GOLF COURSE
STA. 107+00 to 112+50

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Southwest Florida
Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899
(352) 796-7211 or 1-800-423-1476 (FL only)
SUNCOM 628-4150 TDD only 1-800-231-6103 (FL only)
On the Internet at: WaterMatters.org

An Equal Opportunity Employer

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
1-800-836-0797 (FL only)
SUNCOM 578-2070

Bartow Service Office
170 Century Boulevard
Bartow, Florida 33830-7700
(863) 534-1448 or
1-800-492-7862 (FL only)
SUNCOM 572-6200

Sarasota Service Office
6750 Fruitville Road
Sarasota, Florida 34240-9711
(941) 377-3722 or
1-800-320-3503 (FL only)
SUNCOM 531-6900

Lecanto Service Office
3600 West Sovereign Path
Suite 226
Lecanto, Florida 34461-8070
(352) 527-8131
SUNCOM 667-3271

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Heidi B. McCree
Hillsborough
T. G. "Jerry" Rice
Pasco
Judith C. Whitehead
Hernando

David L. Moore
Executive Director
Gene A. Heath
Assistant Executive Director
William S. Bilenky
General Counsel

MEETING LOG

MEETING: Tarpon Woods Drainage Improvements

LOCATION: SWFWMD - Tampa

DATE: 11-3-05 **TIME:** 10 AM

NAME	REPRESENTING	PHONE
Michelle Hopkins	SWFWMD	985-7481
Alberto Martinez	SWFWMD	9857481
Michael Mahoney	Pinellas City PW	727.464.3542
Sandy Kelley	Pinellas Co. PW. Eng	727-464-3892
JULIE BRENNAN	"	727-464-3946
David Talhouk	Pinellas Co. Eng Admin	727-464-3780
Jorge Quintas	Pinellas County Public Works	727-464-3353
Rand Baldwin	SWFWMD	985-7481

Pinellas County

AGENDA

Project: Tarpon Woods Drainage Improvements

Date: November 3, 2005

Location: SWFWMD Tampa Permitting Office

27/16/34

1. Introduction of attendees
2. Overview of historical data, previous project discussions and location of proposed project limits.
3. Purpose of proposed project.
4. Discussion of USGS and FEMA data for the Brooker Creek area proximate to Tarpon Woods.
5. Discussion of Avoidance and Minimization considerations in jurisdictional areas along the Creek.
6. Discussion of downstream effects and benefits for return-frequency storm events.
7. Proposed project schedule including permit application submittal, bidding and proposed commencement of construction.
8. Other issues.
9. Adjournment.

Pinellas County - Tarpon Woods Drainage Improvements (PID 00130) 4312

THIS SPACE IS FORMATTED TO FACILITATE AND GUIDE THE DIALOGUE DURING A PRE-APPLICATION MEETING AND PROVIDE NOTE TAKING A SUPPLEMENTAL "PROMPT LIST" OF DISCUSSION ITEMS IS ATTACHED, WHICH SHOULD BE EXAMINED BY THE APPLICANT PARTIES PRIOR MEETING TO IDENTIFY TOPICS FOR DISCUSSION.

Southwest Florida Water Management District
Resource Regulation Division

ERP Pre-Application Meeting NOTES

FILE No.
27-16-34

Date:	November 3, 2005
Time:	10 AM
Project Name:	Tarpon Woods Drainage Improvements
Attendees:	Michelle Hopkins, Alberto Martinez, Rand Baldwin, Michael Maroney, Sandy Kelley, Julie Brennan, David Talhouk Jorge Quintas

County:	Pinellas	**S/T/R:**	34-27-16
Total Land acreage:	R/W	**Project acreage:**	3

Prior Onsite/Offsite Permit activity:
Previous preaps have been held to discuss proposed drainage improvements.

Project Overview:
Proposed drainage improvements to alleviate flooding problems in the area. Low flow events stay within the creek banks, but larger events (even the 2 year, 24 hour event) exceed the bank limits and flood surrounding developments.

The improvements include the construction of a large culvert (48" or 60" culvert) system to provide additional conveyance of flows. The project will also include an additional parallel 60" culvert.

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.)

- The proposed improvements will be designed to prevent flooding for storm events up to the mean annual storm (2.33 year, 24 hour). They will not be able to eliminate the flooding, but should be able to reduce the duration flooded conditions.
- They will control water levels in some ponds prior to large rain events, to provide additional storage. They ne to provide operation and maintenance guidelines and ensure that lowered water levels will not cause adverse impacts to wetland water levels and adjacent properties.

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.)

- They had addressed minimization of wetland impacts that will result from construction of the pipes. The impa should be very small and are not expected to require mitigation.
- Look at how the proposed improvements affect wetland water levels and demonstrate no adverse impacts.

Sovereign Lands Discussion: (Title Determination, Delegated Authority, Correct Form of Authorization, Content of Application, Assessment of Fees, Coordination with FDEP, etc.)

- We will need to determine if work is proposed in sovereign lands and if so, they will need proper authorization

Water Quantity Discussion: (Basin Description, Design Storm Event, Pre/Post Volume, Pre/Post Discharge, Local Requirements, Other)

- They will provide modeling to demonstrate that the proposed improvements will not cause adverse impacts to the rate, stage, volume and duration of flooding...up to a 100 year, 24 hour storm event. They had indicated tl the elevation will rise up to 0.6 feet for a 100 year storm. They need to show that any increases will not cause adverse impacts.

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.)

- Water quality treatment is not required...no new impervious areas proposed. Proper sediment and erosion control measures will be implemented.

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.)

- They will need to provide evidence of ownership or control of all areas proposed for construction.

Application Type And Fee Required: (40D-4.041Permits Required, 40D-1.607 Fee Schedule, etc.)

- ERP General, $1600 fee (if the project area is greater than 10 acres or wetland impacts exceed 5,000 sq ft) otherwise fee is $800, Forms A,C and E

Other: (Future Pre-Application Meetings, Fast Track, Submittal Date, Construction Start Date, Required District Permits - WUP, WOD, Well Construction, etc.)

- Schedule additional meetings as needed. Application expected to be submitted in 2-3 weeks. They would like to start construction by April and need to put out to bid in late December.

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.

Department of Environmental Protection

Jeb Bush
Governor

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

Colleen M. Castille
Secretary

November 4, 2005

Julie A. Brennan
Permit Coordinator
Pinellas County Public Works
Surface Water Engineering
440 Court Street
Clearwater, Florida 33756

RE: Tarpon Woods Golf Course

Dear Ms. Brennan:

This letter is in response to your recent inquiry requesting a determination of state owned lands in Section 34, Township 27 South, Range 16 East, Pinellas County.

Records on file within the Title and Land Records Section indicate that the state has insufficient information to make a determination of ownership of the subject site. Therefore, we recommend that the proprietary requirements that would normally apply to state lands not apply to this area.

For this opinion we have relied only on records in our central repository. Additional records will be reviewed if provided. This opinion is not a disclaimer of state-owned land.

Should you have any questions regarding this determination, please contact Donelle White, GOC I, at mail station 108 at the above address or call at (850) 245-2788.

Sincerely,

Terry E. Wilkinson, Chief
Bureau of Survey and Mapping
Division of State Lands

Attachment: Maps
TEW/dw
F:\TITLE\Donelle\OCT-DEC 2005\pinellas julie tarpon woods golf course 11-4-05.doc

BOARD OF COUNTY COMMISSIONERS
John Morroni - Chairman
Kenneth T. Welch - Vice Chairman
Ronnie E. Duncan
Calvin D. Harris
Susan Latvala
Karen Williams Seel
Robert B. Stewart

Pinellas County PUBLIC WORKS

TS0228

November 23, 2005

Ms. Alba Mas, P.E., Director
Tampa Regulation Department
Southwest Florida Water Management District
7601 US Highway 301 North
Tampa, Florida 33637

SUBJECT: **Tarpon Woods Drainage Improvements**
SWFWMD General Construction ERP Application
PID No. 1360

Dear Ms. Mas:

Enclosed is Pinellas County's application for your agency's permitting of the above referenced project. **Robin McGill** and **Pat Frantz** have been previously assigned to review. Our application consists of the following:

- Five (5) copies of the properly signed and sealed ERP application Sections A, C and E with documentation.
- Five (5) sets of properly signed and sealed 11" x 17" construction plans.
- Pinellas County Board of County Commissioners check No. 814190 in the amount of $800.00 for the permit fee.

Please note that Exhibit F – Application Easement is currently being expedited. Should you require additional information regarding the project, please contact me at (727) 464-3946.

Sincerely,

Julie Brennan

Julie Brennan
Permit Coordinator
Public Works Engineering

S.W.F.W.M.D. NOV 30 2005 APP. DATE

Enclosure

cc: Michael P. Maroney, P.E., Project Manager, Public Works Surface Water Sr. Engineer
Laurence M. Ritchie, Environmental Coordinator, Public Works Construction Division

PLEASE ADDRESS REPLY TO:
440 Court Street
Clearwater, Florida 33756
Phone: (727) 464-3251
Website: www.pinellascounty.org

H:\USERS\Wpdocs\ENGINEER\SURFWATER\Permit Coordinator\SWFWMD\ERP Apps\TarponWoodsDrainageImp.doc

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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION/

WATER MANAGEMENT DISTRICTS/

U.S. ARMY CORPS OF ENGINEERS

JOINT APPLICATION FOR

ENVIRONMENTAL RESOURCE PERMIT/

AUTHORIZATION TO USE STATE OWNED SUBMERGED LANDS/

FEDERAL DREDGE AND FILL PERMIT



S.W.F.W.M.D.
NOV 30 2005
ARP

M:\Engineering Project Management\00136000\Permits\SWFWMD\ERPSecA.doc
FORM 547.27/ERP (8-94)
Rule 40D-1.659, F.A.C.

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ENVIRONMENTAL RESOURCE PERMIT APPLICATION

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

2379 BROAD STREET ! BROOKSVILLE, FL 34609-6899
(904) 796-7211 OR FLORIDA WATS 1 (800) 423-1476

FOR AGENCY USE ONLY

ACOE Application # _____
Date Received _____
Proposed Project Latitude _____N_____N_____O
Proposed Project Longitude _____N_____N_____O

DEP/WMD Application #_____
Date Received _____
Fee Received $_____
Fee Receipt #_____

SECTION A

PART 1:
Are any of the activities described in this application proposed to occur in, on, or over wetlands or other surface waters?
■ yes Γ no
Is this application being filed by or on behalf of an entity eligible for a fee reduction? ☐ yes ■ no

PART 2:

A. Type of Environmental Resource Permit Requested (check at least one)

- ☐ Noticed General – include information requested in Section B.
- ☐ Standard General (single family dwelling)-include information requested in Sections C and D.
- ■ Standard General (all other projects) - include information requested in Sections C and E.
- ☐ Standard General (minor systems) - include information requested in Sections C and H.
- ☐ Standard General (borrow pits) - include information requested in Sections C and I.
- ☐ Individual (single family dwelling) - include information requested in Sections C and D.
- ☐ Individual (all other projects) - include information requested in Sections C and E.
- ☐ Individual (borrow pits) – include information requested in Sections C and I.
- ☐ Conceptual - include information requested in Sections C and E.
- ☐ Mitigation Bank (construction) - include information requested in Section C and F.
  (If the proposed mitigation bank involves the construction of a surface water management system requiring another permit listed above, check the appropriate box and submit the information requested by the applicable section.)
- ☐ Mitigation Bank (conceptual) - include information requested in Section C and F.

B. Type of activity for which you are applying (check at least one)

- ☐ Construction or operation of a new system, including dredging or filling in, on or over wetlands and other surface waters. (If reapplying for an expired, denied or withdrawn permit/ application, please provide previous permit #_____.)
- ■ Alteration or operation of an existing system which was not previously permitted by SWFWMD or DEP.
- ☐ Modification of a system previously permitted by SWFWMD or DEP. Provide previous permit # and check applicable modification type.
  ☐Alteration of a system ☐ Extension of permit duration ☐Abandonment of a system
  ☐ Construction of additional phases of a system ☐ Removal of a system

C. Are you requesting authorization to use State Owned Submerged Lands. ☐ yes ■no
If yes, include the information requested in Section G.

D. For activities in, on or over wetlands or other surface waters, check type of federal dredge and fill permit requested:
☐ Individual ☐ Programmatic General ☐ General ■ Nationwide #12 Utility Line Activities ☐ Not Applicable

E. Are you claiming to qualify for an exemption? ☐yes ■ no
If yes, provide rule number if known_____.

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PART 3: A. OWNER(S) OF LAND	B. APPLICANT (IF OTHER THAN OWNER)
NAME **Gregory McClimans**	NAME **Pinellas County Board of County Commissioners**
COMPANY AND TITLE **Tarpon Woods Golf & Country Club, Inc.** **President**	COMPANY AND TITLE **Jorge M. Quintas, P.E.** **Director of Public Works Engineering**
ADDRESS **1100 Tarpon Woods Blvd.**	ADDRESS **440 Court Street**
CITY, STATE, ZIP **Palm Harbor, FL 34685**	CITY, STATE, ZIP **Clearwater, FL 33756**
TELEPHONE **(727) 784-7606** FAX **(727) 748-1088**	TELEPHONE **(727) 464-3251** FAX **(727) 453-3008**
C. AGENT AUTHORIZED TO SECURE PERMIT (IF AN AGENT IS USED)	**D. CONSULTANT (IF DIFFERENT FROM AGENT)**
NAME **Jorge M. Quintas, P.E.** **Director of Public Works Engineering** **C/O Julie A. Brennan, Permit Coordinator**	NAME
COMPANY AND TITLE **Pinellas County Public Works, Surface Water Engineering** **Permit Coordinator**	COMPANY AND TITLE
ADDRESS **440 Court Street**	ADDRESS
CITY, STATE, ZIP **Clearwater, FL 33756**	CITY, STATE, ZIP
TELEPHONE **(727) 464-3946** FAX **(727) 453-3008**	TELEPHONE FAX

PART 4: PROJECT INFORMATION

A. Name of project, including phase if applicable: **Tarpon Woods Drainage Improvements**
B. Is this application for part of a multi-phase project? ☐ yes ■ no
C. Total applicant-owned area contiguous to the project: **Road R.O.W. only** acres
D. Total project area for which a permit is sought: **3.73** acres
E. Total impervious area for which a permit is sought: **0** acres
F. Total area (metric equivalent for federally funded projects) of work in, on, or over wetlands or other surface waters: **0.01** acres or ____ square feet ____hectares or ____square meters)
G. Total number of new boat slips proposed: **N/A**

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Latitude 28°5'20.3" Longitude 82°41'21.2"

PART 5: PROJECT LOCATION (use additional sheets, if needed)

County(ies) **Pinellas County**

Section(s) **34** Township **27S** Range **16 E**

Land Grant name, if applicable **N/A**

Tax Parcel Identification Number **34/27/16/00000/140/0000**

Street address, road, or other location **1100 Tarpon Woods Boulevard**

City, Zip Code, if applicable **Palm Harbor, FL 34685**

PART 6: DESCRIBE IN GENERAL TERMS THE PROPOSED PROJECT, SYSTEM, OR ACTIVITY.

The proposed improvements consist of construction of two 60-inch drainage pipes connecting the upper (north) reaches of the area with the lower reach of Brooker Creek at the Tarpon Woods Boulevard bridge to take advantage of approximately six feet of hydraulic grade differential. One of the pipes will provide additional conveyance for Brooker Creek and the other pipe will provide an additional outfall for the Toniwood Area, a subdivision within Tarpon Woods. Additionally, two sheet-pile walls will be constructed to eliminate breaches in the existing bank along Brooker Creek to provide a continuous elevation of at least 11-feet.

(Please see attached Project Abstract)

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PART 7:

A. If there have been any pre-application meetings for the proposed project, with regulatory staff, please list the date(s), location(s), and names of key staff and project representatives.

Date(s)	Location(s)	Names
August 18, 2005	**SWFWMD Tampa Service Office**	**Alberto Martinez, Michelle Hopkins, Mike Maroney, Jorge Quintas, Steve Robinson, Sandy Kelley, Julie Brennan, Paul Berlage, Dave Talhouk**
November 3, 2005	**SWFWMD Tampa Service Office**	**Alberto Martinez, Michelle Hopkins, Rand Baldwin, Jorge Quintas, Michael Maroney, Sandy Kelley, Julie Brennan, Dave Talhouk**

B. Please identify by number any MSSW/WRM (dredge & fill)/ERP/ACOE permits or applications pending, issued or denied and any related enforcement actions at the proposed project site.

Agency	Date	Number/ Type	Action Taken

C. Note:The following information is required for projects proposed to occur in, on or over wetlands that need a federal dredge and fill permit and/or authorization to use state owned submerged lands. Please provide the names, addresses and zip codes of property owners whose property directly adjoins the project (excluding applicant) and/or is located within a 500 foot radius of the project boundary (for proprietary authorizations, if any). Please provide a drawing identifying each owner and adjoining property lines. (Use additional sheets, if needed).

1. **N/A**
2.
3.
4.
5.
6.

MANAGEMENT DISTRICT

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PART 8:

A. By signing this application form, I am applying, or I am applying on behalf of the owner or applicant, for the permit and/or proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application, and represent that such information is true complete and accurate. I understand that knowingly making any false statement or representation in the application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001. I understand this is an application and not a permit and work prior to approval is a violation. I understand that this application and any permit or proprietary authorization issued pursuant thereto, does not relieve me of any obligation for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree, or I agree on behalf of the owner or applicant, to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a responsible operation entity.

Jorge M. Quintas, P.E.	Director of Engineering, Pinellas County Public Works
Typed/Printed Name of Owner, Applicant or Agent	Corporate Title, if applicable
Signature of Owner, Applicant or Agent	11/22/05 Date

B. AN AGENT MAY SIGN ABOVE ONLY IF THE FOLLOWING IS COMPLETED:

I hereby designate and authorize the agent listed above to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above; and to furnish, on request, supplemental information in support of the application. In addition, I authorize the above-listed agent to bind me, or my corporation, to perform any requirement which may be necessary to procure the permit or authorization indicated above.

Typed/Printed Name	Corporate Title, if applicable
Signature of Owner or Applicant	Date

C. PERSON AUTHORIZING ACCESS TO THE PROPERTY MUST COMPLETE THE FOLLOWING:

I either own the property described in this application or I have legal authority to allow access to the property, and I consent, after receiving prior notification, to any site visit on the property by agents or personnel from the Department of Environmental Protection, the Southwest Florida Water Management District and the U.S. Army Corps of Engineers necessary for the review and inspection of the proposed project specified in this application. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review and inspection. Further, I agree to provide entry to the project site for such agents or personnel to monitor authorized work if a permit is granted.

Gregory McClimans	**Tarpon Woods Golf & Country Club, Inc, President**
Typed/Printed Name	Corporate Title, if applicable
GREGORY McCLIMANS	PRESIDENT
Signature	Date 11-21-05

D. I certify that the engineering features of this surface water management system have been designed by me or under my responsible charge and in my professional opinion conform with sound engineering principles and all applicable rules and specifications. I further agree that I or my engineering firm will furnish the applicant/ permittee with a set of guidelines and schedules for maintenance and operation of the surface water management system.

By: _____
Signature of Engineer of Record

!AFFIX SEAL!

Date: 11/21/05

Phone: **727-464-3251**

Michael P. Maroney, P.E. 39914
Name *(please type)* FL P.E. No.

Pinellas County Public Works Engineering
Company Name

440 Court St.
Company Address

Clearwater, Florida 33756
City, State, Zip

44030028.000

ENVIRONMENTAL RESOURCE PERMIT APPLICATION

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

2379 BROAD STREET ! BROOKSVILLE, FL 34609-6899
(904) 796-7211 OR FLORIDA WATS 1 (800) 423-1476

SECTION C
ENVIRONMENTAL RESOURCE PERMIT NOTICE OF RECEIPT OF APPLICATION

This information is required in addition to that required in other sections of the application. Please submit five copies of this notice of receipt of application and all attachments. **PLEASE SUBMIT ALL INFORMATION ON 8 1/2" BY 11" PAPER.**

Project Name: **Tarpon Woods Drainage Improvements**
County: **Pinellas**
Owner: **Tarpon Woods Golf & Country Club, Inc.**
Applicant: **Pinellas County Board of County Commissioners, Jorge M. Quintas, P.E., Director of Engineering**
Applicant Address: **440 Court Street Clearwater, FL 33756**

1. Indicate the project boundaries on a USGS quadrangle map, reduced or enlarged as necessary to legibly show the entire project. If not shown on the quadrangle map, provide a location map, that shows a north arrow, a graphic scale, Section(s), Township(s), and Range(s), and detail sufficient to allow a person unfamiliar with the site to find it.
   See attached USGS map, Exhibit A.

2. Provide the names of all wetland or other surface waters that would be dredged, filled, impounded, diverted, drained or would receive discharge (either directly or indirectly), or would otherwise be impacted by the proposed activity, and specify if they are in an Outstanding Florida Water or Aquatic Preserve: **Brooker Creek Channel A, not an OFW or Aquatic Preserve, receives the discharge.**

3. Attach a depiction (plan and section views), which clearly shows the works or other facilities proposed to be constructed. The depiction must use a scale sufficient to show the location and type of works.
   See attached 8-1/2" x 11" sized construction plans

4. Briefly describe the proposed project (such as "construct a deck with boatshelter", "replace two existing culverts", "construct surface water management system to serve 150 acre residential development"): **The purpose is to alleviate over bank flow, structure and road flooding by installing two, 60-inch HDPE pipes and two sheet piles.**

5. Specify the acreage of wetlands or other surface waters, if any, that are proposed to be disturbed, filled, excavated, or otherwise impacted by the proposed activity: **0.01 Ac. (See plans)**

6. Provide a brief statement describing any proposed mitigation for impacts to wetlands and other surface waters: **The portion of Brooker Creek Channel A where the proposed impacts will occur is a virtually barren bank immediately adjacent to a well manicured golf course green. The bank does not support any vegetation, and it does not provide any wildlife habitat. Also, the project will alleviate over bank flow, which will reduce creek erosion and improve water quality. Therefore, mitigation is not proposed.**

FOR AGENCY USE ONLY
Application Name:
Application Number:
Office where the application can be inspected:

NOTE TO NOTICE RECIPIENT: The information in this notice has been submitted by the applicant and has not been verified by the Southwest Florida Water Management District. It may be subject to change prior to final agency action.

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ENVIRONMENTAL RESOURCE
PERMIT APPLICATION

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

2379 BROAD STREET ! BROOKSVILLE, FL 34609-6899
(904) 796-7211 OR FLORIDA WATS 1 (800) 423-1476

SECTION E

INFORMATION FOR STANDARD GENERAL OR INDIVIDUAL (INCLUDING CONCEPTUAL) ENVIRONMENTAL RESOURCE PERMITS FOR PROJECTS NOT RELATED TO A SINGLE FAMILY DWELLING UNIT

The information requested below is for projects requiring either a standard general or individual environmental resource permit (ERP) not related to an individual, single family dwelling unit, duplex or quadruplex. Certain categories of information requested may not be applicable to all applications. In addition the level of detail required will vary depending on the nature and location of the site and the activity proposed. Conceptual approvals generally do not require the same level of detail as a construction permit. However, providing more detail will reduce the need for additional information being requested at a later date. **Please submit all information on paper no larger than 24" x 36".**

A. Site Information

1. Provide a map(s) of the project area and vicinity delineating USDA/SCS soil types.
See attached Exhibit B.

2. Provide recent aerials, legible for photo interpretation with a scale of 1" = 400 ft, or more detailed, with project boundaries delineated on the aerial.
See attached Exhibit C.

3. Identify the seasonal high water or mean high tide elevation and normal pool or mean low tide elevation for each on-site wetland or surface water, including receiving waters into which runoff will be discharged. Include date, datum, and method used to determine these elevations.
According to the USDA SCS Soil Survey of Pinellas County, issued September 1972, the water table in Myakka soils is normally at a depth of 10 to 30 inches. Project specific water table elevations are currently not available.

4. Identify the wet season high water table at appropriate locations on the project site. Include date, datum, and method used to determine these elevations. **According to the USDA SCS Soil Survey of Pinellas County, issued September 1972, the water table in Myakka soils is normally at a depth of 10 to 30 inches. Project specific wet season high water table elevations are currently not available.**

B. Environmental Considerations

1. Provide results of any wildlife surveys that have been conducted on the site and any comments pertaining to the project from the Florida Game and Fresh Water Fish Commission or the U.S. Fish and Wildlife Service (USF&W). **The project area is limited to a highly manicured Bermuda grass (Cynodum dactylum) 18-hole golf course facility. The frequent use of pesticides and daily mowing has created a condition that is not conducive to wildlife communities. Pinellas County has made the conscious effort to construct the project in manicured uplands where there is no habitat value.**

2. Provide a description of how water quantity, quality, hydroperiod, and habitat will be maintained in on-site wetlands and other surface waters that will be preserved or remain undisturbed. **With the exception of the two outfall structures, the project will be constructed in uplands. The ultimate outfall will be into a section of Brooker Creek. The proposed 0.01 acre impact to Brooker Creek is considered diminimus, and Pinellas County has redesigned the outfalls to minimize and reduce the wetland impacts.**

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
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3. Provide a narrative of any proposed mitigation plans, including purpose, maintenance, monitoring, and construction sequence and techniques, and estimated costs. **No mitigation is proposed.**

4. Describe how boundaries of wetlands or other surface waters were determined. If there has been a jurisdictional declaratory statement, a formal wetland determination, a formal determination, a validated informal determination, or a revalidated jurisdictional determination, provide the identifying number. **Steve Robinson, Penny Standridge, George McCorkel, Julie Brennan and Pat Frantz met on-site 9/8/05. The top of bank at station 107+50 was determined to be the jurisdictional line.**

5. Summarize impacts to wetlands and other surface waters:

   a. For all projects with wetlands or other surface waters on site, complete Table 1, 2 and 3, as applicable; **See Table 1. Table 2 & 3 are N/A.**
   b. For docking facilities or other structures constructed over wetlands or other surface waters, complete Table 4; **N/A**
   c. For shoreline stabilization projects, complete Table 5. **N/A**

C. Plans

Provide clear, detailed plans for the proposed system which include specifications, plan, cross-section and profile views of the proposed project. The plans must be signed and sealed by an appropriate registered professional as required by law. These plans should show or include the following, as applicable:

1. Project and total land area boundaries, including distances and orientation from roads or other land marks. **See construction plans.**

2. Existing land use, land cover, and on-site natural communities, including wetlands, other surface waters, aquatic communities, and uplands (acreage and percentages). Use the USF&W Service's Classification of Wetlands and Deepwater Habitats of the United States for wetlands or other surface waters on the project site. Assign each wetland or other surface water a unique identification number which is consistent in all exhibits. **See construction plans.**

3. Existing topography extending at least 100 feet off site and includes adjacent wetlands and other surface waters. All topography shall include the location and a description of known benchmarks, referenced to NGVD. For systems waterward of mean high water (MHW) or seasonal high water, show water depths at mean low water (MLW) in tidal areas or normal pool in non-tidal areas. For docking facilities show the location, depths and access to the nearest navigational channel.
   See construction plans.

4. Floodplain boundary and approximate flooding elevations if the project is in the known floodplain of a stream or other water course. Identify the 100-year flood elevation and floodplain boundary of any lake, stream or other watercourse located on or adjacent to the site. **See Project Abstract.**

5. Boundaries of wetlands and other surface waters within the project area. Distinguish those wetlands and other surface waters that have been delineated by any binding wetland determination. **See construction plans.**

6. Proposed land use, land cover and natural communities, including wetlands, other surface waters, undisturbed uplands, aquatic communities, impervious surfaces, and water management areas (acreage and percentages). Use the same classification system and identification number used in C.2. above. **See construction plans.**

7. Proposed impacts to wetlands and other surface waters. **See construction plans, Sheet 10.**

8. Locations of buffer zones abutting wetlands. **N/A**

9. Pre and post-development drainage patterns and basin boundaries. Show the direction of flow, including any off-site runoff being routed through or around the system and connections between wetlands and other surface waters. **See construction plans, Sheet 9.**

10. Location of all water management areas with details of size, side slopes and design water depths. **N/A**

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11. Location and details of all water control structures, control elevations, any seasonal water level regulation schedules and the location and description of benchmarks (minimum of one benchmark per structure). **See construction plans.**

12. Location, dimensions and elevations of all proposed structures, including docks, seawalls, utility lines, roads and buildings. **See construction plans.**

13. Location, size and design capacity of the internal water management facilities. **N/A**

14. Existing and proposed rights-of-way and easements for the system, including all on-site and off-site areas to be reserved for water management purposes. **See construction plans.**

15. Receiving waters or surface water management systems into which runoff from the developed site will be discharged. **See construction plans.**

16. Location and details of the erosion, sediment and turbidity control measures to be implemented during each phase of construction and all permanent control measures to be implemented in post-development conditions. **See construction plans.**

17. Location, grading, design water levels, and planting details of all mitigation areas. **N/A**

18. Site grading details, including perimeter grades. **See construction plans.**

19. Temporary and permanent disposal sites for any excavated material. **N/A.**

20. Details of the dewatering plan including: delineation of areas to be dewatered, location(s) of dewatering facilities and discharge. **See Part D below.**

21. For marina facilities, location of any sewage pumpout facilities, fueling facilities, boat repair/maintenance facilities, and fish cleaning stations. **N/A**

22. Location and description of any existing off-site features, such as structures, buildings, wetlands, other surface waters, stormwater ponds, which might be affected by or affect the proposed construction or development. **N/A**

23. Master development plan, for phased projects. **N/A**

D. Construction Schedule and Techniques

Provide a construction schedule and a description of construction techniques, sequencing and equipment. This information should specifically include the following:

The Contractor for this project will be selected during the bidding process administered by Pinellas County. All construction procedures and techniques will be in accordance with the County's construction specifications and FDOT's Standard Specifications. Prior to construction, the Contractor will develop a schedule along with a plan of construction. This plan will include dewatering plans that may be required, and methods of transporting equipment to the site.

1. Method for installing any pilings, seawall slabs or riprap.
2. Schedule of implementation of a temporary or permanent erosion and turbidity control measures. **See Erosion & Sediment Control notes & details, and Stormwater Pollution Prevention Plan in construction plans.**
3. Method and type of material to be excavated for work in wetlands or other surface waters.
4. Source and type of fill material to be used for work in wetlands and other surface waters.
5. Dewatering plan including: duration of dewatering; the methods for containing the discharge, methods of isolating dewatering areas, and time dewatering structures will be in place. A Water Use permit may be required for dewatering.
6. Methods for transporting equipment and materials to and from the work site. If barges are required for access, provide the low water depths and draft of the fully loaded barge.
7. Demolition plan for any existing structures to be removed.
8. Provide the name and address of the person who will construct the proposed project.
9. Identify the schedule and party responsible for completing construction monitoring, record drawings, and as-built certifications for the project.

E. Drainage Information

1. Provide pre-development and post-development drainage calculations, signed and sealed by an appropriate registered professional, as follows: **See drainage calculations package for a. through l. below.**

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a. Runoff characteristics, including area, runoff curve number or runoff coefficient, and time of concentration for each drainage basin;
b. Seasonal high water table elevations including aerial extent and magnitude of any proposed water table drawdown;
c. Normal, wet season, and design storm elevations of receiving waters;
d. Design storms used including rainfall depth, duration, frequency, and distribution;
e. Runoff hydrograph(s) for each drainage basin, for all required design storm event(s);
f. Stage-storage computations for any area such as a reservoir, close basin, detention, area, or channel, used in storage routing;
g. Stage-discharge computations for any storage areas at a selected control point, such as control structure or natural restriction;
h. Flood routings through on-site conveyance and storage areas.
i. Water surface profiles in the primary drainage system for each required design storm event(s);
j. Runoff peak rates and volumes discharged from the system for each required design storm event(s);
k. Tail water history and justification (time and elevation);
l. Pump specifications and operating curves for range of possible operating conditions (if used in system).

2. Provide the results of any percolation tests, where appropriate, and soil borings that are representative of the actual site conditions. **N/A**

3. Provide the acreage and percentage of the total project, of the following:

   a. impervious surfaces, excluding wetlands; **0 Acres, 0%**

   b. pervious surfaces (green areas not including wetlands); **3.73 Acres, virtually 100%**

   c. lakes, canals, retention areas, other open water areas; **0 Acres, 0%**

   d. wetlands. **WL-1 is Brooker Creek Channel A, unknown size.**

4. Provide an engineering analysis of floodplain storage and conveyance (if applicable), including: **See drainage calculations package.**

   a. Hydraulic calculations for all proposed traversing works;
   b. Backwater water surface profiles showing upstream impact of traversing works;
   c. Location and volume of encroachment within regulated floodplain(s);
   d. Plan for compensating floodplain storage, if necessary, and calculations required for determining minimum building and road flood elevations.

5. Provide an analysis of the water quality treatment system including: **N/A**
   a. A description of the proposed stormwater treatment methodology that addresses the type of treatment, pollution abatement volumes, and recovery analysis;
   b. Construction plans and calculations that address stage-storage and design elevations, which demonstrate compliance with the appropriate water quality treatment criteria.

6. Provide a description of the engineering methodology, assumptions and references for the parameters listed above, and a copy of all such computations, engineering plans, and specifications used to analyze the system. If a computer program is used for the analysis, provide the name of the program, a description of the program, input and output data, two diskette copies, if available, and justification for model selection.

7.

F. Operation and Maintenance and Legal Documentation

1. Describe the overall maintenance and operation schedule for the proposed system. **Pinellas County Public Works will operate and maintain the system in accordance with their standard operation procedures.**

2. Identify the entity that will be responsible for operating and maintaining the system in perpetuity, if different than the permittee. Provide a draft document enumerating the enforceable affirmative obligations of the entity to properly operate and maintain the system for its expected life and document the entity's financial responsibility for long term maintenance. If the proposed operation and maintenance entity is not a property owner's association, provide proof of the existence of an entity, or the future acceptance of the system by an entity which will operate and maintain the system. If a property owner's association is the proposed operation and maintenance entity, provide copies of the articles of incorporation for the association and copies of the declaration, restrictive covenants, deed restrictions, or other operational documents that assign responsibility for the operation and maintenance of the system. Provide

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information ensuring the continued adequate access to the system for maintenance purposes. Before transfer of the system to the operating entity will be approved, the permittee must document that the transferee will be bound by all terms and conditions of the permit. **N/A**

3. Provide copies of all proposed conservation easements, storm water management system easements, property owner's association documents, and plats for the property containing the proposed system. **See Exhibit D for owner's Tarpon Woods 3rd and 4th Addition plats. The project will cross Toniwood Lane, County (Applicant) public right-of-way.**

4. Indicate how water and waste water service will be supplied. Letters of commitment from off-site suppliers must be included. **N/A**

5. Provide a copy of the boundary survey and/or legal description and acreage of the total land area of contiguous property owned/controlled by the applicant, including the project site. **See Exhibit E for owner's legal description. The project will cross Toniwood Lane, County (Applicant) public right-of-way.**

6. Provide a copy of the deed or other evidence of ownership, or in the case of an applicant, evidence of an easement or other documents evidencing authorization to perform the proposed work. **See Exhibit F for owner deed and County (applicant) easement.**

G. Water Use

1. Will the surface water system be used for water supply, including landscape irrigation, recreation, etc.? **NO**
2. If a Water Use Permit has been issued for the project, state the permit number. **N/A**
3. If a Water Use Permit has not been issued for the project, indicate if a permit will be required and when the application will be submitted. **N/A**
4. Indicate how any existing wells located within the project site will be utilized or abandoned. **N/A**

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT TAMPA

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TABLE 1
PROJECT WETLAND AND OTHER SURFACE WATER SUMMARY

{PRIVATE }WL & SW ID	WL & SW TYPE	WL & SW SIZE	WL & SW NOT IMPACTED	TEMPORARY WL & SW IMPACTS			PERMANENT WL & SW IMPACTS			MITIGATION AREA ID
				WL & SW TYPE	IMPACT SIZE	IMPACT TYPE	WL & SW TYPE	IMPACT SIZE	IMPACT TYPE	
WL-1* see comment below	Open water	unknown	unknown	N/A	N/A	N/A	Open water	0.01 acre	Fill	N/A* see comment below
PROJECT TOTALS		N/A	N/A		N/A			0.01 acre		

WL = Wetland; **SW** = Surface water; **ID** = Identification number, letter, etc.
Wetland Type: Use an established wetland classification system and, in the comments section below, indicate which classification system is being used.
Impact Code (Type): D = dredge; F = fill; H = change hydrology; S = shading; C = clearing; O = other. Indicate the final impact if more than one impact type is proposed in a given area. For example, show F only for an area that will first be demucked and then backfilled.

Note: Multiple entries per cell are not allowed, except in the "Mitigation ID" column. Any given acreage of wetland should be listed in one row only, such that the total of all rows equals the project total for a given category (column). For example, if Wetland No. 1 includes multiple wetland types and multiple impact codes are proposed in each type, then each proposed impact in each wetland type should be shown on a separate row, while the size of each wetland type found in Wetland No. 1 should be listed in only one row.

Comments: *** WL-1 is Brooker Creek Channel A. The portion of Brooker Creek Channel A where the proposed impacts will occur is a virtually barren bank immediately adjacent to a well manicured golf course green. The bank does not support any vegetation, and it does not provide any wildlife habitat. Therefore, mitigation is not proposed.**

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EXHIBIT B
SOILS MAP

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S.W.F.W.M.D.
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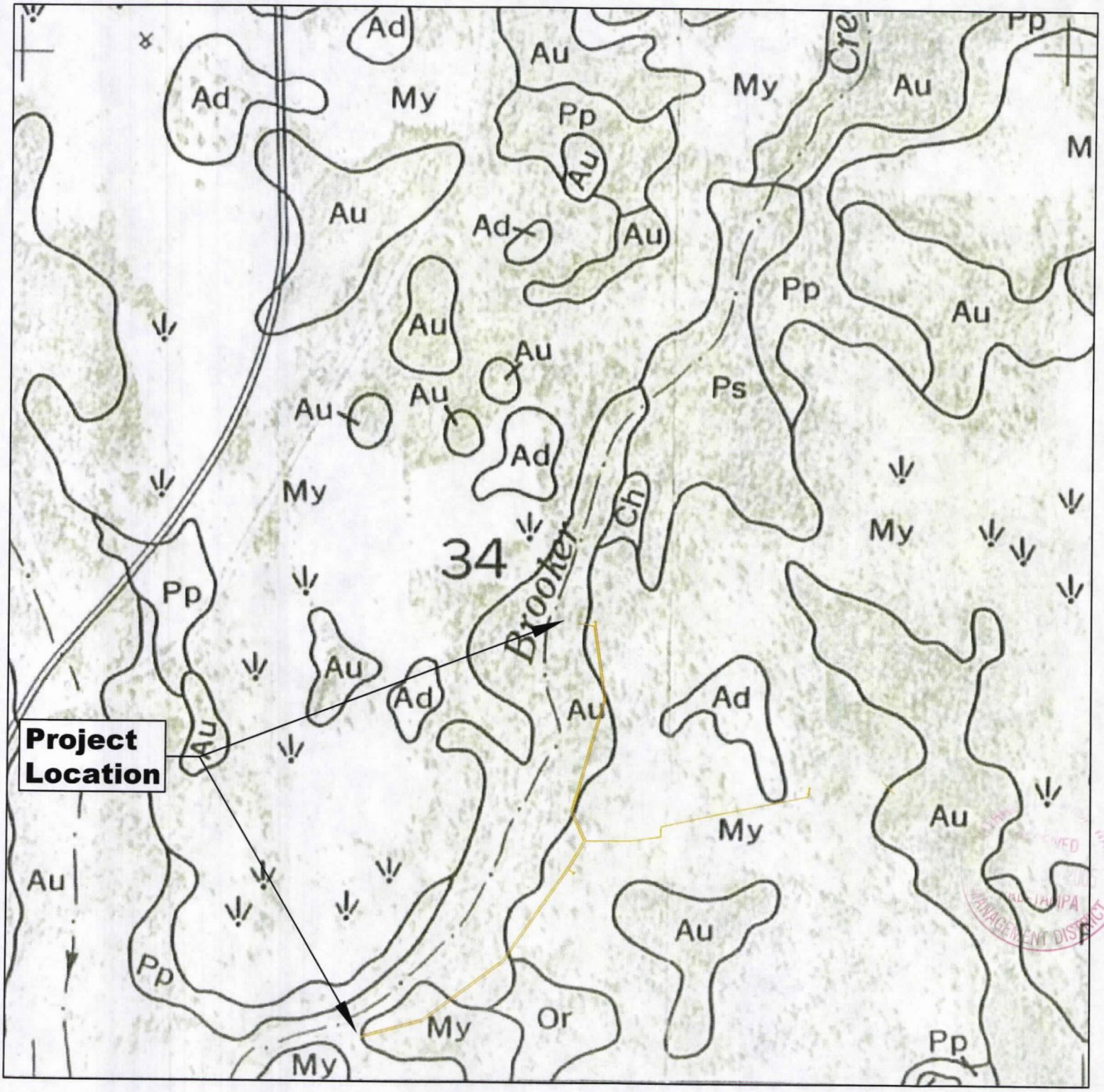
SWFWMD - TAMPA
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EXHIBIT "B"

Tarpon Woods USDA Soils Map - Pinellas Co., FL

S/T/R 34/27/16

Scale 1:8200



WATER MANAGEMENT DISTRICT

EXHIBIT C
AERIAL MAP

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EXHIBIT "C"
Tarpon Woods Aerial
S/T/R 34/27/16

SCALE
0 400 800



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EXHIBIT A

USGS QUAD MAP

&

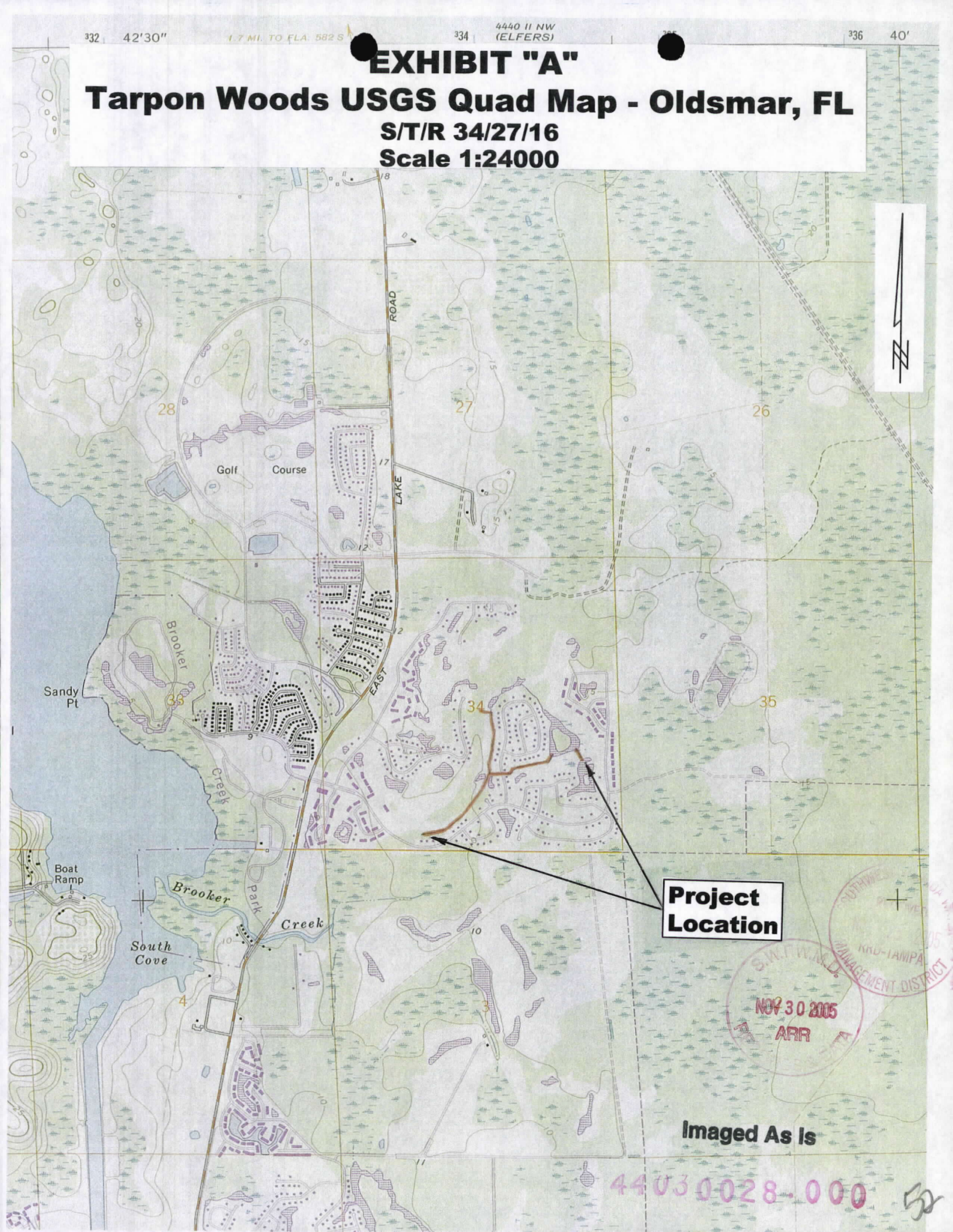
8-1/2" X 11" PLANS

EXHIBIT "A"

Tarpon Woods USGS Quad Map - Oldsmar, FL

S/T/R 34/27/16

Scale 1:24000



FILE OF RECORD
PERMIT NO.

TS0228

TARPON WOODS
DRAINAGE IMPROVEMENTS
PID 1360

SWFWMD ERP APPLICATION

Prepared By
Pinellas County Public Works Engineering
440 Court Street
Clearwater, Florida 33756

For

Pinellas County Board of Commissioners

S.W.F.W.M.D.
NOV 30 2005
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
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TARPON WOODS DRAINAGE IMPROVEMENTS
ERP APPLICATION
TABLE OF CONTENTS

Project Abstract

ERP Section A

ERP Section C

Exhibit A – USGS Quad Map (Project Location Map)
8-1/2" x 11" plans

ERP Section E

Exhibit B – Soils Map
Exhibit C – Aerial Map
Exhibit D – Plats
Exhibit E – Owner Property Description & Deed
Exhibit F – Applicant Easement Form

ATTACHMENT 1 - Pre-Application Meeting Minutes

ATTACHMENT 2 - FEMA Map No. 12103C0079G & 12103C0083G

ATTACHMENT 3 - Drainage Calculation Package – ICPR v.3
Existing and Proposed Conditions – Input and Results

ATTACHMENT 4 - Construction Plans

ATTACHMENT 5 - FDEP Letter (Not State Owned Submerged Land)

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TARPON WOODS DRAINAGE IMPROVEMENTS
ERP APPLICATION ABSTRACT

Existing Conditions

The proposed project is located in Pinellas County, Section 34, Township 27 South, Range 16 East. The area consists of mainly single-family residential subdivisions bisected by an 18-hole golf course.

The Brooker Creek Watershed upstream of this location provides outfall for approximately thirty square miles of basin, 60% within Hillsborough County and 40% within Pinellas County. Immediately upstream is the 8,500-acre Brooker Creek Preserve, the only significant area within the watershed undeveloped. After passing through the Tarpon Woods community under the Tarpon Woods Boulevard bridge, Brooker Creek Channel "A" confluences with Channel "B" and outfalls into Lake Tarpon.

Until the mid-1960s, Lake Tarpon was without a significant outfall and stages in the Lake averaged elevation 8-feet msl and there was little development in the area. The Lake Tarpon Outfall Canal project improvements lowered the average stage in Lake Tarpon from an elevation of 8-feet to an elevation of 3-feet. This significant change allowed for development of the Pinellas County portion of the watershed. Tarpon Woods was largely developed in the mid-1970s and FDER permitted the developments.

Proposed Conditions

The project area is experiencing significant localized flooding. Several meetings were held with the Water Management District to discuss options to alleviate the flooding.

The following option was discussed for the improvements:

Construction of two 60-inch drainage pipes connecting the northern and eastern reaches of the project area with the lower reach of Brooker Creek at the Tarpon Woods Boulevard bridge. This will take advantage of approximately six feet of hydraulic grade differential. One of the pipes will provide additional conveyance for Brooker Creek and the other pipe will provide an additional outfall for the Toniwood Area, a subdivision within Tarpon Woods.

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Water Quality Treatment

The project will add no new impervious area. The existing stormwater ponds in the area will remain unchanged.

The project, as designed, provides avoidance and minimization of impacts to the jurisdictional areas to the greatest extent possible (i.e. only at the start and end points of the pipes).

Therefore, no additional water quality treatment or mitigation is required for this project.

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Water Quantity Attenuation

ICPR and HEC-RAS were used to model the proposed storm water improvements for the project. Refer to the drainage map showing the existing and proposed storm system improvements.

The proposed improvements will not alleviate flooding for the storm events greater than a one-year frequency. This project is proposed to provide improvements for storms of the one-year event and less, and to provide improvements to the recovery time of the drainage systems following the storm.

The runoff rates (1-year) for the critical upstream and downstream node areas are as follows:

Node Description	Existing Runoff (cfs)	Proposed Runoff (cfs)
POND 1	13.6	0.01
POND 2R	7.7	0.24
POND 4	6.13	0.13
POND 5	0.0	0.58
POND 6	0.0	0.0

The water surface elevations (1-year) for the critical upstream and downstream node areas are as follows:

Node Description	Existing WSEL (ft)	Proposed WSEL (ft)
POND 1	11.0	8.0
POND 2R	11.0	8.0
POND 4	11.0	8.0
POND 5	8.0	8.0
POND 6	8.5	7.0

Based on the above hydraulic results, there will be no adverse impacts upstream or downstream of the project area.

Therefore, no additional water quantity attenuation is required.

Floodplain Impacts

The proposed improvements will not displace existing floodplain volumes and will actually provide some additional storage volume above the proposed 60-inch pipes. The project proposed to construct shallow swales above the storm pipes where possible to help convey the runoff in a downstream direction. These swales will provide additional storage in the existing floodplain.

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EXHIBIT D
PLATS

SWFWMD-TAMPA MANAGEMENT DISTRICT

PLAT B: 80 73122123 49

TARPON WOODS 4TH ADDITION

BEING A SUBDIVISION OF A PORTION OF THE SOUTHEAST 1/4 OF SECTION 34, TOWNSHIP 27 SOUTH, RANGE 16 EAST, PINELLAS COUNTY FLORIDA.

STATE OF FLORIDA }
COUNTY OF PINELLAS } SS

It is hereby certified that this plat has been officially approved by the Board of County Commissioners of the County of Pinellas, Florida, this 24th day of July, 1979.

APPROVED:

J. Keith Wicks
For County Engineer

ATTEST: Harold Mullendore, Clerk

Glen W. Vantrease
Deputy Clerk

Joseph J. Wasnich
Chairman, Board of County Commissioners

STATE OF FLORIDA }
COUNTY OF PINELLAS } SS

I, Harold Mullendore, Clerk of the Circuit Court of Pinellas County, Florida, hereby certify that this plat has been examined and that it complies in form with all the requirements of the Statutes of the State of Florida pertaining to maps and plats, and that this plat has been filed for record in Plat Book 80, Page 49 and 50, Public Records of Pinellas County, Florida, this 24th day of July, 1979. @ 3:45 p.m.

Harold Mullendore, Clerk
Pinellas County, Florida

By: Tina Bergeest
Deputy Clerk

NOTE:

1. Permanent Reference Monuments (PRM's) are indicated thus: ▫
2. Permanent Control Points (PCP's) are indicated thus: ○
3. Easements are shown thus ---------- and are for public utilities and drainage as noted.

LEGAL DESCRIPTION:

Commencing at the Southeast corner of Section 34, Township 27 South, Range 16 East, Pinellas County, Florida, as a Point of Beginning, run N.89°15'39"W., 2050.00 feet; thence N.00°44'21"E., 154.51 feet; thence 158.45 feet along the arc of a curve to the right, radius 300 feet, chord N.15°52'11"E., 156.61 feet; thence N.31°00'00"E., 318.94 feet; thence N.65°00'00"W., 76.58 feet; thence 97.74 feet along the arc of a curve to the left, radius 400 feet, chord N.72°00'00"W., 97.50 feet; thence N.11°00'00"E., 120.0 feet; thence 63.19 feet along the arc of a curve concave to the South, radius 520 feet, chord S.75°31'09"E., 63.15 feet; thence N.17°57'43"E., 80.00 feet; thence N.02°00'00"E., 97.53 feet; thence 260.88 feet along the arc of a curve to the left, radius 965 feet, chord N.05°44'42"W., 260.09 feet; thence East 52.34 feet; thence 43.63 feet along the arc of a curve to the left, radius 50 feet, chord N.65°00'00"E., 42.26 feet; thence 296.71 feet along the arc of a curve to the right, radius 340 feet, chord N.65°00'00"E., 287.38 feet; thence East 165.00 feet; thence 194.21 feet along the arc of a curve to the left, radius 385 feet, chord N.75°32'54"E., 192.16 feet; thence 184.13 feet along the arc of a curve to the right, radius 365 feet, chord N.75°32'54"E., 182.18 feet; thence 92.50 feet along the arc of a curve to the left, radius 100 feet, chord N.63°30'00"E., 89.24 feet; thence 125.67 feet along the arc of a curve to the right, radius 100 feet, chord N.73°00'00"E., 117.56 feet; thence 68.94 feet along the arc of a curve to the left, radius 50 feet, chord N.69°30'00"E., 63.61 feet; thence N.30°00'00"E., 135.00 feet; thence 52.36 feet along the arc of a curve to the right, radius 50 feet, chord N.60°00'00"E., 50.00 feet; thence East 80.87 feet; thence 34.91 feet along the arc of a curve to the left, radius 50 feet, chord N.70°00'00"E., 34.20 feet; thence N.50°00'00"E., 62.71 feet; thence N.25°12'00"E., 188.88 feet; thence N.08°01'13"W., 180.94 feet; thence N.87°49'07"E., 380.00 feet; thence S.02°10'53"E., 2091.00 feet to the Point of Beginning.

DEDICATION:

The undersigned hereby certify that they are the owners of the above described property and that besides their interests therein, there are no other outstanding interests in said property, which is hereby platted as TARPON WOODS 4th ADDITION and that they dedicate all streets, easements parks, and public places as shown on this plat to the use of the public in general. The parties joining herein are Lloyd M. Ferrentino and Ann Ferrentino respectively President and Secretary of Tarpon Woods Development, Inc., Owners.

TARPON WOODS DEVELOPMENT, INC.

Rocco L. Capobianco
Witness

Witness

Lloyd M. Ferrentino, President

Ann Ferrentino, Secretary

STATE OF FLORIDA }
COUNTY OF PINELLAS } SS

Before me, the undersigned authority, personally appeared Lloyd M. Ferrentino and Ann Ferrentino respectively President and Secretary of Tarpon Woods Development, Inc., a corporation under the laws of the State of Florida, to me known to be the individuals executing the foregoing certificate of dedication and acknowledged to me that they executed the same for the purposes set out therein. Witness my hand and official seal at Pinellas County, Florida, this 13th day of July, 1979

My Commission expires: 4-27-80.

Marcia Gilbert
Notary Public, State of Florida at Large

SURVEYOR'S CERTIFICATE:

I, C. Fred Deuel, the undersigned Registered Land Surveyor, hereby certify that on July 10th, 1979 this property was surveyed and this plat is a true representation of the lands described and shown, and that permanent reference monuments (P.R.M's) have been placed as indicated hereon in accordance with the Statutes of the State of Florida thereunto appertaining. I hereby certify that the material and compostion of this plat conforms to the requirements of Chapter 177.091 of the Florida Statutes.

Florida Engineer's Reg. No. 3896
Florida Surveyor's Reg. NO. 827

C. Fred Deuel and Associates, Inc.

Imaged As Is

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Tarpon Woods 4th Add
1800 64111 1-22-87
Patricia Burke

Tarpon Woods 4th Addition
5305 143
2-3-82
Patricia Burke

Tarpon Woods 4th Addition
5161
441 12-14-81
Patricia Burke

EXHIBIT E
OWNER PROPERTY DESCRIPTION AND DEED

440300028.000

SOUTHWEST FLORIDA WATER
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RECORDS DATA

98

34 / 27 / 16 / 00000 / 140 / 0000

06-Sep-2005 Jim Smith, CFA Pinellas County Property Appraiser 09:08:29

Ownership Information	Non-Residential Property Address, Use, and Sales

TARPON WOODS GOLF & COUNTRY CLUB INC
1100 TARPON WOODS BLVD
PALM HARBOR FL 34685-2008

OBK: **12469** OPG: **2582**

EVAC: **C EVAC**

Comparable sales value as of Jan 1, 2005, based on sales from 2003 - 2004:
0

Prop Addr: **1100 TARPON WOODS BLVD**
Census Tract: **273.07**

Plat Information
0000: Book Pgs -
0000: Book Pgs -
0000: Book Pgs -

Sale Date	OR Book/Page	Price	(Qual/UnQ)	Vac/Imp
1 /2,003	12,469/2,582	2,300,000	(M)	I
10/1,997	9,860/ 443	5,700,000	(M)	I
2 /1,997	9,615/1,366	3,555,400	(M)	I
2 /1,989	6,934/2,384	4,000,000	(M)	I

2005 Value

Just/Market: **2,955,000**
Assessed/Cap: **2,955,000**
Taxable: **2,955,000**

EXEMPTIONS

Homestead:	NO	Ownership %	.000
Govt Exem:	NO	Use %:	.000
Institutional Exem:	NO	Tax Exempt %:	.000
Historic Exem:	0		
Agricultural:	0		

2004 Tax Information

District: **ETF East Lake**
05 Millage: **21.9902**
04 Taxes: **53,219.88**
Special Tax **.00**

Without the Save-Our-Homes cap, 2005 taxes will be :
64,981.04

Without any exemptions, 2005 taxes will be :
64,981.04

Seawall: Frontage:
View:

	Land Size Front x Depth	Unit Land Price	Land Units	Land Meth
1)	0 x 0	5,000.00	140.30	A
2)	0 x 0	90,000.00	18.00	T
3)	0 x 0	.00	.00	
4)	0 x 0	.00	.00	
5)	0 x 0	.00	.00	
6)	0 x 0	.00	.00	

Short Legal Description: **PT OF SEC 34 AKA TARPON WOODS GOLF & COUNTRY CLUB DESC AS S 3/4 OF N 1/2 & S 1/2 OF SEC LYING E OF**

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
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Building Information

Property and Land Use Code descriptions

Florida Department of State, Division of Corporations

Corporations Online

www.sunbiz.org Public Inquiry

Florida Profit

TARPON WOODS GOLF & COUNTRY CLUB, INC.

PRINCIPAL ADDRESS
1100 TARPON WOODS BLVD.
PALM HARBOR FL 34685
Changed 03/21/2003

MAILING ADDRESS
1100 TARPON WOODS BLVD.
PALM HARBOR FL 34685
Changed 03/21/2003

Document Number P02000130787	**FEI Number** 651164445	**Date Filed** 12/11/2002
State FL	**Status** ACTIVE	**Effective Date** NONE
Last Event NAME CHANGE AMENDMENT	**Event Date Filed** 07/08/2004	**Event Effective Date** NONE

Registered Agent

Name & Address
MCCLIMANS, GREGORY 1100 TARPON WOODS BLVD. PALM HARBOR FL 34685
Name Changed: 09/10/2004
Address Changed: 09/10/2004

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
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Officer/Director Detail

Name & Address	Title
MCCLIMANS, GREGORY 401 DRUID RD. W CLEARWATER FL 33756	P
MCCLIMANS, REBECCA 401 DRUICH RD W CLEARWATER FL 33756	ST

KARLEEN F. DE BLAKER, CLERK OF COURT
PINELLAS COUNTY, FLORIDA

3C209700 01-13-2003 16:09:10 LCH
51 DED-GOLF TRUST
017030
I#:03014812 BK:12469 SPG:2582 EPG:2587
RECORDING 006 PAGES 1 $28.50
DOC STAMP - DR219 3 $16,100.00

TOTAL: $16,128.50
CHECK AMT.TENDERED: $16,128.50
CHANGE: $.00
BY _____ DEPUTY CLERK

03-014812 JAN-13-2003 4:08PM
PINELLAS CO BK 12469 PG 2582

This Instrument Prepared By:

Matthew J. Norton, Esq.
Nexsen Pruet Jacobs Pollard & Robinson, LLC
Suite 301, 200 Meeting Street
Charleston, SC 29401

PAGES 4
ACCT #
CHG AMT
CK AMT
REC 28.50
DS DR219 16,100.00
SS
INT
FEES
MTF
P/C
REV
TOTAL 16,128.50

WARRANTY DEED

THIS WARRANTY DEED, executed to be effective as of the 9th day of January, 2003, by GOLF TRUST OF AMERICA, L.P., a Delaware limited partnership, whose address is 14 North Adger's Wharf, Charleston, South Carolina 29401, hereinafter collectively called the "Grantor", to H & M INVESTMENTS OF CLEARWATER, INC., a Florida corporation, 1875 Airport Drive, Clearwater, Florida 33756, hereinafter called the "Grantee";

WITNESSETH:

THAT the Grantor, for and in consideration of the sum of TEN DOLLARS ($10.00) and other valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantee, all that certain land situate in Pinellas County, Florida, viz:

See attached Exhibit "A."

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in any wise appertaining.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that it is lawfully seized of said land in fee simple; that it has good right and lawful authority to sell and convey said land; that it hereby warrants the title to said land and will defend the same against the lawful claims of all

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persons claiming by, through or under Grantor, but not otherwise; and that said land is free of all encumbrances except ad valorem real property taxes and assessments for the year 2003, and easements and restrictions and other matters imposed of record, if any, the reference to which shall not operate to reimpose the same.

IN WITNESS WHEREOF, the Grantor has caused these presents to be executed in manner and form sufficient to bind it as of the day and year first above written.

Signed, sealed and delivered
in the presence of:

Name: Brendan R. Magee

Name: Matthew J. Norton

GOLF TRUST OF AMERICA, L.P.,
a Delaware limited partnership

By: GTA GP, INC., a Maryland corporation,
its general partner

By: _____
Name: W. Bradley Blair, II
Title: President and Chief Executive Officer

Address: 14 North Adger's Wharf
Charleston, SC 29401

STATE OF SOUTH CAROLINA
COUNTY OF CHARLESTON

The foregoing instrument was acknowledged before me this 9th day of January, 2003 by W. Bradley Blair, II, President and Chief Executive Officer of GTA GP, INC., a Maryland corporation, as general partner of GOLF TRUST OF AMERICA, L.P., a Delaware limited partnership, on behalf of the partnership. He is personally known to me.

_____
Notary Public Signature

Matthew J. Norton
Typed or Printed Notary Name
Notary Public-State of South Carolina

My Commission Expires:
May 21, 2012
(AFFIX SEAL)

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EXHIBIT "A"

Description of Property

TARPON WOODS GOLF COURSE including clubhouse & clubhouse parking being in Section 34, Township 27 South, Range 16 East, Pinellas County, Florida, described as follows:

Commence at the Southwest corner of Section 34, Township 27 South, Range 16 East, Pinellas County, Florida; thence S. 89°15'39" E., 1437.16 feet; thence N. 00°44'21° E., 179.52 feet for a Point of Beginning; thence N. 60°00'00" W., 176.17 feet; thence 301.17 feet along the arc of a curve to the right, radius 960.00 feet, chord N. 51°00'45" W., 299.94 feet; thence N. 50°04'10" E., 240.44 feet; thence N. 15°38'07" East, 45.21 feet; thence N. 34°00'00" W., 457.40 feet; thence S. 56°00'00" W., 101.43 feet; thence N. 05°00'00" W., 94.27 feet; thence N. 25°00'00" W., 111.06 feet; thence N. 37°00'00" W., 220.00 feet; thence N. 02°12'00" W., 293.11 feet; thence N. 48°00'00" W., 152.64 feet; thence N. 42°00'00" E., 238.78 feet; thence 72.31 feet along the arc of a curve to the left, radius 1040.00 feet, chord N. 40°00'30" E., 72.29 feet; thence 30.57 feet along the arc of a curve to the right, radius 20.00 feet, chord N. 81°48'00" E., 27.68 feet; thence S. 54°25'00" E., 156.42 feet; thence S. 35°35'00" W., 58.26 feet; thence S. 15°30'00" E,. 346.01 feet; thence 687.97 feet along the arc of a curve to the left, radius 390.00 feet, chord S. 66°02'09" E., 602.18 feet; thence N. 45°00'00° E., 311.99 feet; thence N. 72°30'00" E., 170.81 feet; thence N. 17°30'00" W., 120.00 feet; thence N. 72°30'00" E., 178.71 feet; thence 159.72 feet along the arc of a curve to the right, radius 225.00 feet, chord S. 87°09'50" E., 156.39 feet; thence S. 44°00'00" W., 125.30 feet; thence S. 46°00'00" E., 80.00 feet; thence 790.90 feet along the arc of a curve to the left, radius 285.00 feet, chord N. 54°30'00" E., 560.46 feet; thence 455.31 feet along the arc of a curve to the right, radius 835.00 feet, chord N. 09°22'44° W., 449.69 feet; thence N. 28°07'08" E., 10.78 feet; thence S. 83°45'28" E., 100.00 feet; thence N. 11°34'04" E., 360.67 feet; thence N. 18°47'52" E, 290.18 feet; thence N. 61°23'00" W., 293.00 feet; thence S. 16°20'00" W., 70.00 feet; thence S. 75°50'00" W., 230.40 feet; thence S. 28°01'34" W., 234.00 feet; thence S. 84°20'00" E., 50.00 feet; thence S. 05°40'00" W., 183.93 feet; thence S. 84°20'00" E., 151.63 feet; thence 11.18 feet along the arc of a curve to the left, concave to the East, radius 1400.00 feet, chord S. 05°53'44" W., 11.18 feet; thence N. 83°52'33" W., 184.50 feet; thence S. 29°10'48" W., 71.04 feet; thence 384.86 feet along the arc of a curve to the left, radius 165.00 feet, chord S. 23°33'06" E., 303.36 feet; thence N. 89°37'34" E., 60.33 feet; thence 8.62 feet along the arc of a curve to the left, concave to the East, radius 1025.00 feet, chord S. 00°36'53" E., 8.62 feet; thence S. 89°08'40" W., 60.33 feet; thence 568.15 feet along the arc of a curve to the left, radius 165.00 feet, chord S. 09°30'00" E., 326.25 feet; thence N. 71°51'20" E., 60.33 feet; thence 44.77 feet along the arc of a curve to the left, radius 1025.00 feet, chord S. 19°23'45" E., 44.77 feet; thence 153.10 feet along the arc of a curve to the right, concave to the North, radius 200.00 feet, chord N. 88°43'02" W., 149.39 feet; thence 275.24 feet along the arc of a curve to the left, radius 415.00 feet, chord N. 85°47'13" W., 270.22 feet; thence S. 14°47'13" E., 140.00 feet; thence 13.02 feet along the arc of a curve to the left, concave to the South, radius 275.00 feet, chord S. 73°51'24° W., 13.02 feet; thence S. 72°30'00" W., 178.71 feet; thence N. 17°30'00" W., 56.77 feet; thence 343.61 feet along the arc of a curve to the left, radius 315.00 feet, chord N. 48°45'00" W., 326.83 feet; thence N. 80°00'00" W., 350.77 feet; thence 332.55 feet along the arc of a curve to the left, radius 340.54 feet, chord S. 72°01'28"

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W., 319.49 feet; thence N. 54°25'00" W., 156.42 feet; thence 30.57 feet along the arc of a curve to the right, radius 20.00 feet, chord N. 10°38'00" W., 27.68 feet; thence 65.38 feet along the arc of a curve to the left, radius 1040.00 feet, chord N. 31°20'58" E., 65.37 feet; thence N. 29°32'54" E., 45.29 feet; thence N. 71°00'00" E., 689.58 feet; thence S. 70°00'00" E., 70.00 feet; thence N. 69°00'00" E., 232.75 feet; thence N. 21°00'00" W., 374.81 feet; thence N. 05°00'00" W., 572.45 feet; thence N. 36°00'00" E., 252.79 feet; thence N. 21°04'09" W., 195.50 feet; thence S. 68°55'51" W., 4.00 feet; thence 120.70 feet along the arc of a curve to the left, concave to the Southeast, radius 210.00 feet, chord S. 52°27'56" W., 119.04 feet; thence N. 36°00'00" E., 166.86 feet; thence 104.24 feet along the arc of a curve to the right, radius 143.10 feet, chord N. 56°52'08" E., 101.95 feet; thence 239.41 feet along the arc of a curve to the left, radius 470.00 feet, chord N. 63°08'43" E., 236.83 feet; thence S. 60°27'06" E., 272.78 feet; thence S. 04°56'41" W., 172.57 feet; thence S. 18°17'18" W., 189.51 feet; thence S. 10°52'45" E., 118.48 feet; thence S. 47°13'49" E., 132.86 feet; thence N. 40°26'56" E., 356.49 feet; thence N. 18°13'57" E., 117.14 feet; thence N. 32°00'00" E., 365.00 feet; thence N. 66°00'00" E., 438.36 feet; thence S. 53°52'00" E., 189.44 feet; thence N. 55°37'23" E., 119.31 feet; thence N. 29°00'00" E., 70.42 feet; thence S. 61°00'00" East, 63.51 feet; thence S. 87°54'47" E., 50.18 feet; thence S. 12°23'01" W., 254.11 feet; thence S. 53°52'31" W., 168.94 feet; thence S. 59°10'07" W., 121.00 feet; thence S. 61°07'10" W., 123.85 feet; thence S. 27°19'41" W., 225.83 feet; thence S. 42°33'32" W., 142.79 feet; thence S. 16°24'56" W., 113.79 feet; thence S. 18°24'03" E., 282.22 feet; thence N. 73°51'08" E., 63.58 feet; thence S. 57°44'14" E., 149.51 feet; thence S. 21°57'42° W., 113.54 feet; thence N. 59°06'52" E., 479.25 feet; thence N. 66°13'29" E., 175.40 feet; thence N. 59°52'29" E., 133.63 feet; thence N. 32°33'47" E., 87.84 feet; thence N. 21°57'18" E., 309.76 feet; thence N. 22°06'35" E., 389.72 feet; thence S. 49°44'18" E., 100.73 feet; thence S. 45°37'29" E., 80.26 feet; thence S. 28°15'03" E., 88.70 feet; thence S. 22°14'53" W., 70.97 feet; thence S. 76°41'20" E., 110.13 feet; thence N. 76°36'40" E., 101.73 feet; thence S. 18°45'25" W., 86.57 feet; thence S. 39°13'26" W., 139.26 feet; thence S. 68°36'26" E., 35.06 feet; thence S. 20°15'48" W., 76.38 feet; thence S. 23°46'07" W., 244.07 feet; thence N. 89°44'26" E., 16.42 feet; thence S. 23°46'07" W., 101.46 feet; thence S. 10°51'48" W., 473.39 feet; thence S. 58°21'09" E., 568.29 feet; thence S. 31°22'51° E., 304.04 feet; thence S. 08°01'13" E., 180.94 feet; thence S. 25°12'00" W., 188.88 feet; thence S. 50°00'00" W., 62.71 feet; thence 34.91 feet along the arc of a curve to the right, radius 50.00 feet, chord S. 70°00'00" W., 34.20 feet; thence West 80.87 feet; thence 52.36 feet along the arc of a curve to the left, radius 50.00 feet, chord S. 60°00'00" W., 50.00 feet; thence S. 30°00'00" W., 135.00 feet; thence 68.94 feet along the arc of a curve to the right, radius 50.00 feet, chord S. 69°30'00" W., 63.61 feet; thence 125.67 feet along the arc of a curve to the left, radius 100.00 feet, chord S. 73°00'00" W., 117.56 feet; thence 92.50 feet along the arc of a curve to the right, radius 100.00 feet, chord S. 63°30'00" W., 89.24 feet; thence 184.13 feet along the arc of a curve to the left, radius 365.00 feet, chord S. 75°32'54° W., 182.18 feet; thence 194.21 feet along the arc of a curve to the right, radius 385.00 feet, chord S. 75°32'54" W., 192.16 feet; thence West 165.00 feet; thence N. 00°00'12" E., 25.00 feet; thence 307.84 feet along the arc of a curve to the left, radius 365.00 feet, chord S. 60°39'13" W., 298.80 feet; thence 43.63 feet along the arc of a curve to the right, radius 50.00 feet, chord S. 65°00'00" W., 42.26 feet; thence West 52.34 feet; thence 92.81 feet along the arc of a curve to the left, concave to the West, radius 965.00 feet, chord N. 16°14'42" W., 92.77 feet; thence 115.14 feet along the arc of a curve to the right, radius 635.00 feet, chord N. 13°48'21" W., 114.98 feet; thence S. 85°00'00" W., 140.23 feet; thence 40.02 feet along the arc of a curve to the right, concave to the East, radius 775.00 feet, chord N. 06°28'45" West., 40.01 feet; thence N.

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85°00'00" E., 130.00 feet; thence N. 00°12'07" W., 119.55 feet; thence N. 89°46'13" E., 147.78 feet; thence N. 80°40'47" E., 180.28 feet; thence N. 77°30'00" E., 370.00 feet; thence N. 02°00'00" E., 595.00 feet; thence N. 29°00'00" W., 240.00 feet; thence N. 23°00'00" West., 260.00 feet; thence N. 08°36'49" W., 21.35 feet; thence N. 54°03'34" W., 269.62 feet; thence S. 74°00'00" W., 445.00 feet; thence S. 35°00'00" W., 170.00 feet; thence S. 13°00'00" W., 105.00 feet; thence S. 05°00'00" E., 530.00 feet; thence S. 17°00'00" W., 618.85 feet; thence N. 85°00'00" E., 236.97 feet; thence S. 05°00'00" E., 5.00 feet; thence 84.57 feet along the arc of a curve to the left, radius 825.00 feet, chord S. 07°56'12" E., 84.54 feet; thence S. 85°00'00" W., 137.48 feet; thence S. 11°00'00" E., 98.57 feet; thence S. 85°00'00" W., 32.00 feet; thence S. 11°00'00" E., 90.50 feet; thence N. 85°00'00" E., 32.00 feet; thence S. 11°00'00" E., 180.99 feet; thence N. 42°00'00° W., 90.00 feet; thence 364.86 feet along the arc of a curve to the left, radius 185.00 feet, chord S. 81°30'00" W., 308.54 feet; thence S. 25°00'00" W., 65.00 feet; thence 128.63 feet along the arc of a curve to the left, radius 110.00 feet, chord S. 08°30'00" E., 121.43 feet; thence S. 50°00'00" W., 675.00 feet; thence S. 67°00'00" W., 292.58 feet; thence N. 85°00'00" W., 297.00 feet; thence S. 29°00'00" W., 132.02 feet; thence 138.17 feet along the arc of a curve to the right, concave to the Northeast, radius 780.00 feet, chord N. 65°04'29" W., 137.99 feet to the Point of Beginning.

AND

MAINTENANCE AREA TRACT:

Being in the Southwest 1/4 of Section 34, Township 27 South, Range 16 East, Pinellas County, Florida, described as follows:
Commence at the Southwest corner of Section 34, Township 27 South, Range 16 East, Pinellas County, Florida; thence N. 15°54'49" E., 1793.63 feet; thence N. 42°00'00" E., 169.04 feet for a Point of Beginning; thence N. 48°00'00" W., 69.54 feet; thence N. 25°13'16" West., 102.90 feet; thence N. 64°46'44" E., 241.07 feet; thence 220.23 feet along the arc of a curve to the left, radius 358.17 feet; chord N. 47°09'49" E., 216.78 feet; thence S. 29°32'54" W., 134.40 feet; thence 208.63 feet along the arc of a curve to the right, radius 960.00 feet, chord S. 35°46'27" W., 208.22 feet; thence S. 42°00'00" W., 139.78 feet to the Point of Beginning.

AND

A part of the South 0.70 feet of Lot 37 and a part of Lot 38 as shown on the Plat of TARPON WOODS THIRD ADDITION as recorded in Plat Book 78, page 4 and 5 of the Public Records of Pinellas County, Florida, being more particularly described as follows: Begin at the Southwest corner of Lot 38 as shown on said Plat of TARPON WOODS THIRD ADDITION and go N. 17°00'00" E., 99.23 feet, along the West boundary of said Lot 38 and a part of Lot 37, to a point on the North boundary of the South 0.70 feet of Lot 37; thence S. 25°11'21" E., 98.02 feet, to a point on the South boundary of Lot 38; thence S. 85°00'00" W., 71.00 feet, along said South boundary of Lot 38 to the Point of Beginning.

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TOGETHER WITH an easement for normal golfing activities as more fully described and set forth in that certain Easement recorded in Official Records Book 6411, page 843, of the Public Records of Pinellas County, Florida, over and across a portion of Lot 50 of TARPON WOODS

PINELLAS COUNTY FLA.
OFF.REC.BK 12469 PG 2587

4TH ADDITION as recorded in Plat Book 80, pages 49 and 50, of the Public Records of Pinellas County, Florida, described as follows:

Begin at the NW corner of said Lot 50 and run thence S 25°12'00" W, 101.35 feet along the westerly line of said Lot 50; thence run N 87°49'07" E, 40.00 feet along the south line of said Lot 50; thence run N 02°01'14" E, 90.24 feet to the Point of Beginning.

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EXHIBIT F
APPLICANT EASEMENT FORM

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PINELLAS COUNTY EASEMENT IS FORTHCOMING. JULIE BRENNAN (727-464-3946) WILL BE TRANSMITTING IT DIRECTLY TO ROBIN McGILL.

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ATTACHMENT 1

PRE-APPLICATION MEETING MINUTES

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SWFWMD Pre-Application Meeting August 18, 2005

Notes per Dave Talhouk, Pinellas County Public Works

Attendees: Alberto Martinez, Michelle Hopkins, Mike Maroney, Jorge Quintas, Steve Robinson, Sandy Kelley, Julie Brennan, Paul Berlage, Dave Talhouk

The following is a summary of our meeting with SWFWMD concerning the subject project.

We explained the extensive street flooding and duration in Toni-woods and the Tarpon Woods area. We presented the proposed twin 60 inch diameter pipes with the adjustable weir as a temporary solution until the long term solution could be worked out in the watershed plan. We suggested emergency authorization so construction could begin with a permit application to follow construction. The permit application would include a backwater analysis from Lake Tarpon to define a maximum flow which would achieve bank full conditions. That flow rate would correlate to the level of weir adjustment. Beyond that level the weir would be locked down. After the flood wave passed the weir could be lowered more to reduce the duration of standing water. After operations were complete we would reinstall the boards to block the weir off until the next event as not to lower groundwater.

The general approach was acknowledged as being reasonable. The only concern SWFWMD had was the emergency authorization. The policy is that if there are wetland impacts a permit is required up front.

We indicated that we would locate the pipes such that any wetland impacts would be incidental. We offered to have Steve Robinson of DEM along with SWFWMD's Environmental Scientist, Pat Franz under Alberto Martinez direction at SWFWMD field locate an acceptable alignment as to avoid as much as possible wetland impacts. We would have the construction alignment and the wetland line surveyed after we located the line and alignment and SWFWMD field verified them. We would construct according to these constraints in order to be allowed emergency authorization.

Michelle Hopkins, Permitting Manager and Alberto Martinez, Supervising Environmental Scientist for SWFWMD were at the meeting. Alba Maas would be required to make the decision on the matter of emergency authorization. She was attending another meeting. Michelle will check with Alba and forward our request to her. Michelle will call David Talhouk to let us know Alba's position. Dave will work with Alba if needed to try to clarify any issues.

Note: Pat Frantz (SWFWMD) met Pinellas County personnel (Steve Robinson, Julie Brennan, Penny Standridge) on-site September 8, 2005 to determine the wetland jurisdictional line.

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THIS SPACE IS FORMATTED TO FACILITATE AND GUIDE THE DIALOGUE DURING A PRE-APPLICATION MEETING AND PROVIDE NOTE TAKING A SUPPLEMENTAL "PROMPT LIST" OF DISCUSSION ITEMS IS ATTACHED, WHICH SHOULD BE EXAMINED BY THE APPLICANT PARTIES PRIOR MEETING TO IDENTIFY TOPICS FOR DISCUSSION.

Southwest Florida Water Management District
Resource Regulation Division

ERP Pre-Application Meeting NOTES

FILE No.
27-16-34

Date:	November 3, 2005
Time:	10 AM
Project Name:	Tarpon Woods Drainage Improvements
Attendees:	Michelle Hopkins, Alberto Martinez, Rand Baldwin, JORGE QUINTAS Michael Maroney, Sandy Kelley, Julie Brennan, David Talhouk

County:	Pinellas	**S/T/R:**	34-27-16
Total Land acreage:	R/W	**Project acreage:**	3

Prior Onsite/Offsite Permit activity:
Previous preaps have been held to discuss proposed drainage improvements.

Project Overview:
Proposed drainage improvements to alleviate flooding problems in the area. Low flow events stay within the creek banks, but larger events (even the 2 year, 24 hour event) exceed the bank limits and flood surrounding developments.

The improvements include the construction of a large culvert (48" or 60" culvert) system to provide additional conveyance of flows. The project will also include an additional parallel 60" culvert.

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.)

- The proposed improvements will be designed to prevent flooding for storm events up to the mean annual storm (2.33 year, 24 hour). They will not be able to eliminate the flooding, but should be able to reduce the duration flooded conditions.
- They will control water levels in some ponds prior to large rain events, to provide additional storage. They ne to provide operation and maintenance guidelines and ensure that lowered water levels will not cause adverse impacts to wetland water levels and adjacent properties.

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.)

- They had addressed minimization of wetland impacts that will result from construction of the pipes. The impa should be very small and are not expected to require mitigation.
- Look at how the proposed improvements affect wetland water levels and demonstrate no adverse impacts.

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Sovereign Lands Discussion: (Title Determination, Delegated Authority, Correct Form of Authorization, Content of Application, Assessment of Fees, Coordination with FDEP, etc.)

- We will need to determine if work is proposed in sovereign lands and if so, they will need proper authorization

Water Quantity Discussion: (Basin Description, Design Storm Event, Pre/Post Volume, Pre/Post Discharge, Local Requirements, Other)

- They will provide modeling to demonstrate that the proposed improvements will not cause adverse impacts to the rate, stage, volume and duration of flooding...up to a 100 year, 24 hour storm event. They had indicated tl the elevation will rise up to 0.6 feet for a 100 year storm. They need to show that any increases will not cause adverse impacts.

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.)

- Water quality treatment is not required...no new impervious areas proposed. Proper sediment and erosion control measures will be implemented.

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.)

- They will need to provide evidence of ownership or control of all areas proposed for construction.

Application Type And Fee Required: (40D-4.041Permits Required, 40D-1.607 Fee Schedule, etc.)

- ERP General, $1600 fee (if the project area is greater than 10 acres or wetland impacts exceed 5,000 sq ft) otherwise fee is $800, Forms A,C and E

Other: (Future Pre-Application Meetings, Fast Track, Submittal Date, Construction Start Date, Required District Permits - WUP, WOD, Well Construction, etc.)

- Schedule additional meetings as needed. Application expected to be submitted in 2-3 weeks. They would like to start construction by April and need to put out to bid in late December.

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.

ATTACHMENT 2

FEMA MAPS
12103C0079G & 12103C0083G

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ATTACHMENT 4

CONSTRUCTION PLANS

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ATTACHMENT 5

FDEP LETTER (NOT STATE OWNED SUBMERGED LANDS)

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Department of Environmental Protection

Jeb Bush
Governor

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

Colleen M. Castille
Secretary

November 4, 2005

Julie A. Brennan
Permit Coordinator
Pinellas County Public Works
Surface Water Engineering
440 Court Street
Clearwater, Florida 33756

RE: Tarpon Woods Golf Course

Dear Ms. Brennan:

This letter is in response to your recent inquiry requesting a determination of state owned lands in Section 34, Township 27 South, Range 16 East, Pinellas County.

Records on file within the Title and Land Records Section indicate that the state has insufficient information to make a determination of ownership of the subject site. Therefore, we recommend that the proprietary requirements that would normally apply to state lands not apply to this area.

For this opinion we have relied only on records in our central repository. Additional records will be reviewed if provided. This opinion is not a disclaimer of state-owned land.

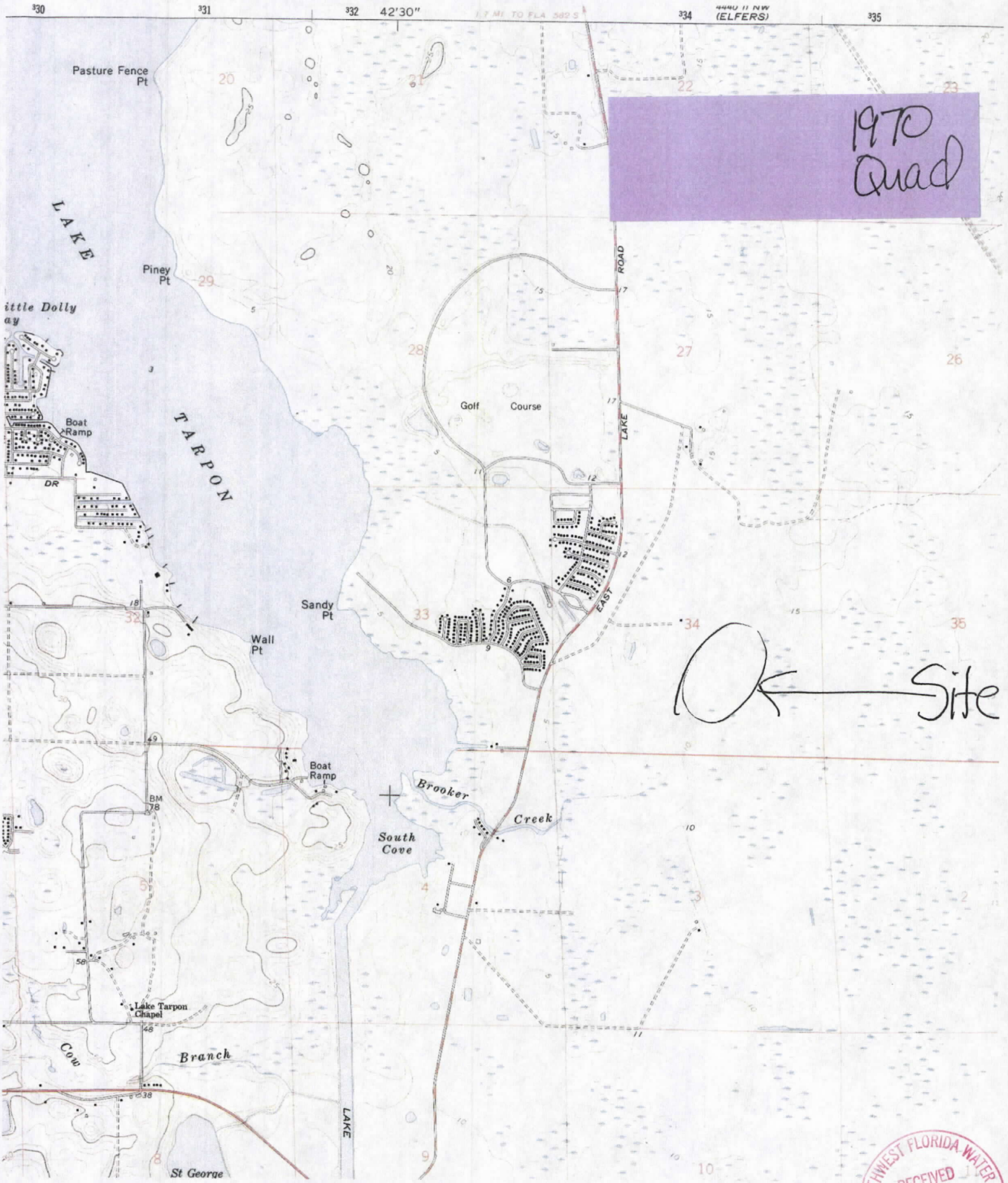
Should you have any questions regarding this determination, please contact Donelle White, GOC I, at mail station 108 at the above address or call at (850) 245-2788.

Sincerely,

Terry E. Wilkinson, Chief
Bureau of Survey and Mapping
Division of State Lands

Attachment: Maps
TEW/dw
F:\TITLE\Donelle\OCT-DEC 2005\pinellas julie tarpon woods golf course 11-4-05.doc

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
RECEIVED
NOV 23 2005
RRD-TAMPA



SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
RECEIVED
NOV 23 2005
RRD-TAMPA



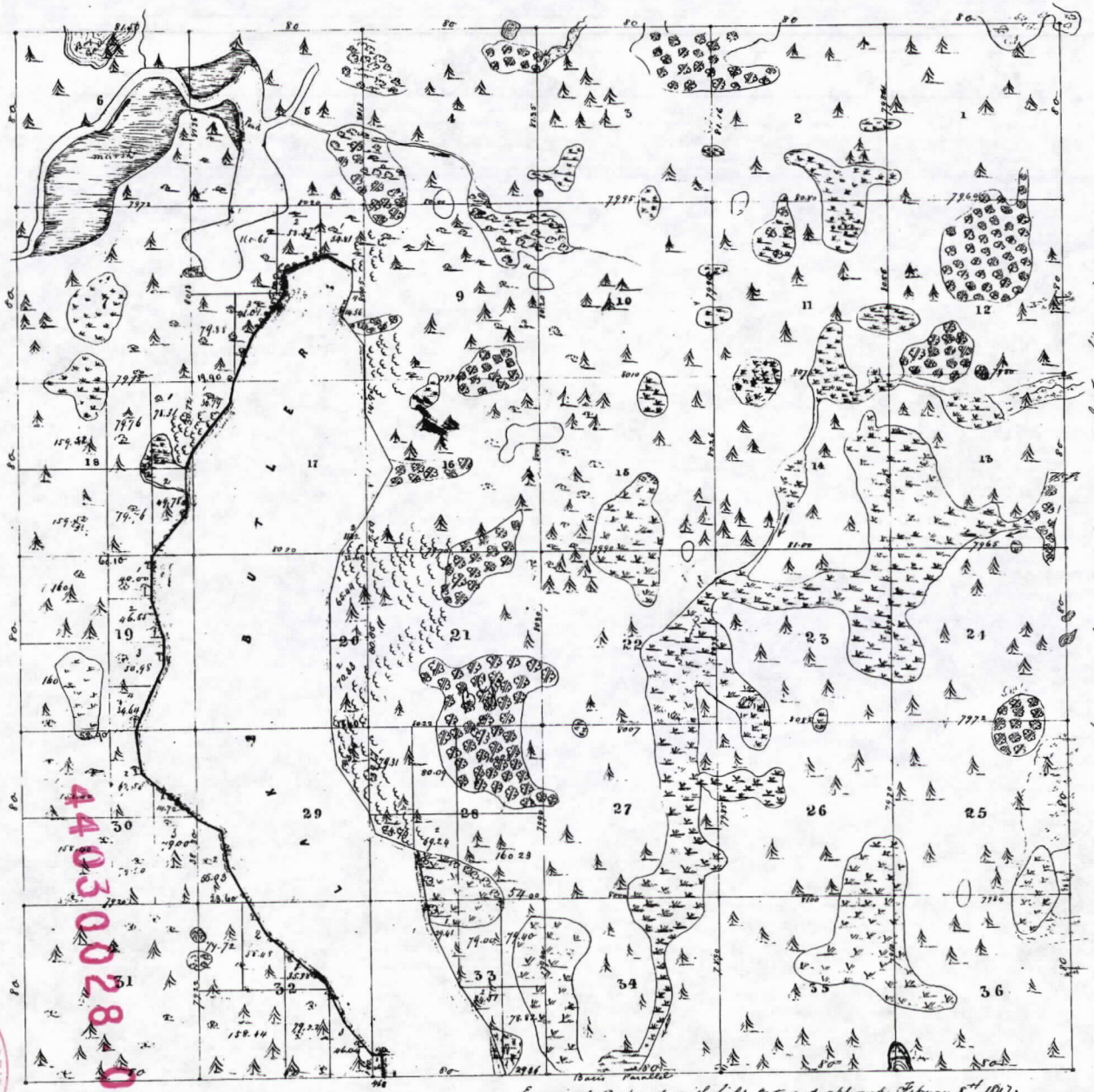
Imaged As Is

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
RECEIVED
NOV 23 2005
RRD-TAMPA

Mapped for transmt

T. 27. R. 16. S. AND E.

Imaged As Is



Note. The Mud, North and East Boundary of the Township was surveyed in the first Quarter of 1846 by C. A. Rankin Deputy Surveyor. The South Boundary was surveyed in the 1st Quarter of 1858 by Henry Mills Deputy Surveyor

Examined Compared with field Note and approved February 8th 1847.

Triplicate

James S. Hunter

Surv. General

TABLE of CONTENTS

No	A
1	637.97
2	647.80
3	649.53
4	650.08
5	650.89
6	644.33
7	638.31
8	409.86
9	640.31
10	640.72
11	647.73
12	639.59
13	637.76
14	648.01
15	641.01
16	609.15
17	647.61
18	604.65
19	492.47
20	136.77
21	635.08
22	644.09
23	636.56
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
Aggregate =	185

Sectioned in the Months

Variation 4° 45' E.

Scale 40 Chains to an inch

Chain Men { Thomas M... / Philip ...

Imaged As Is

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT RECEIVED NOV 29 2005 RRO-TAMPA

44030028000

GIS Plat

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
7601 U.S. HWY. 301 TAMPA FL 33637-6759
(813) 985-7481

DISTRICT RECEIPT NO: TA06-00679A

Date Created: 11/28/2005 9:08:19AM
Date Modified: 11/28/2005 9:08:19AM

Counter Receipt

Description: WATER WELL CONSTRUCTION
Payment For: TS0228

Pay Type: PERSONAL CHECK **Chk/Mo Nbr:** 814190 **Chk/Mo Date:** 11/21/2005

Customer:

Amount: $800.00

PINELLAS COUNTY BOARD OF COUNTY COMMISSIONERS
440 COURT STREET
CLEARWATER, FL 33756

Comments:

Cashier: MBENCH

S.W.F.W.M.D.
NOV 30 2005
ARR
RECEIVED

Actual Permit #:
Temp Permit #: TS0228
Project Name: TARPON WOODS

44030028.000 60

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

7601 U.S. HWY. 301 TAMPA FL 33637-6759
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