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Southwest Florida Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899
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On the Internet at WaterMatters.org

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Bartow, Florida 33830-7700
(863) 534-1448 or
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Sarasota Service Office
6750 Fruitville Road
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(941) 377-3722 or
1-800-320-3503 (FL only)

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
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October 29, 2010

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General Counsel

Board of County Commissioners
Manatee County
Post Office Box 1000
Bradenton, FL 34206-1000

Subject: Notice of Final Agency Action for Approval
ERP General for Minor Systems
Permit No. 46035675.000
Project Name: Perico Bayou Parking Area
County: Manatee
Sec/Twp/Rge: 26/34S/16E

Dear Mr. Permittee:

This letter constitutes notice of Final Agency Action for approval of the permit referenced above. Final approval is contingent upon no objection to the District's action being received by the District within the time frames described below.

You or any person whose substantial interests are affected by the District's action regarding a permit may request an administrative hearing in accordance with Sections 120.569 and 120.57, Florida Statutes, (F.S.), and Chapter 28-106, Florida Administrative Code, (F.A.C.), of the Uniform Rules of Procedure. *A request for hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's action, or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no disputed facts, and (3) otherwise comply with Chapter 28-106, F.A.C.* Copies of Sections 28-106.201 and 28-106.301, F.A.C. are enclosed for your reference. A request for hearing must be filed with (received by) the Agency Clerk of the District at the District's Brooksville address within 21 days of receipt of this notice. Receipt is deemed to be the fifth day after the date on which this notice is deposited in the United States mail. Failure to file a request for hearing within this time period shall constitute a waiver of any right you or such person may have to request a hearing under Sections 120.569 and 120.57, F.S. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding the District's action in this matter is not available prior to the filing of a request for hearing.

Enclosed is a "Noticing Packet" that provides information regarding the District Rule 40D-1.1010, F.A.C., which addresses the notification of persons whose substantial interests may be affected by the District's action in this matter. The packet contains guidelines on how to provide notice of the District's action, and a notice that you may use.

The enclosed approved construction plans are part of the permit, and construction must be in accordance with these plans.

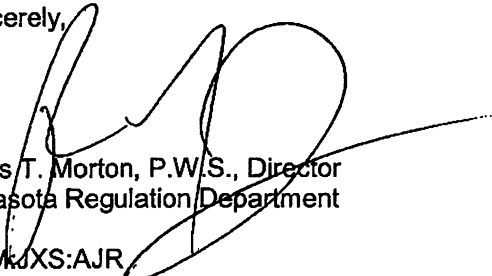
Scanned & Forwarded to Livingston, Nowbray Paris, Adams & Kelly, 10/29/10

RECEIVED
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PUBLIC WORKS
ENGINEERING DIVISION



If you have questions concerning the permit, please contact Junhong Shi, P.E., at the Sarasota Service Office, extension 6578. For assistance with environmental concerns, please contact Clifford J. Ondercin, extension 6537.

Sincerely,



Ross T. Morton, P.W.S., Director
Sarasota Regulation Department

RTM/XS:AJR

Enclosures: Approved Permit w/Conditions Attached
Approved Construction Drawings
Statement of Completion
Notice of Authorization to Commence Construction
Noticing Packet (42.00-039)
Sections 28-106.201 and 28-106.301, F.A.C.

cc/enc: File of Record 46035675.000

Sia Mollanazar, P.E., Manatee County Public Works
Terri L. Behling, Southwest Florida Water Management District

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
GENERAL FOR MINOR SURFACE WATER MANAGEMENT SYSTEMS
PERMIT NO. 46035675.000

Expiration Date: October 29, 2015

Issue Date: October 29, 2010

This permit is issued under the provisions of Chapter 373, Florida Statutes, (F.S.), and the Rules contained in Chapters 40D-4 and 40D-40, Florida Administrative Code, (F.A.C.). The permit authorizes the Permittee to proceed with construction of a surface water management system in accordance with the information outlined herein and shown by the application, approved drawings, plans, specifications, and other documents, attached hereto and kept on file at the Southwest Florida Water Management District (District). Unless otherwise stated by permit specific condition, permit issuance constitutes certification of compliance with state water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341. All construction, operation and maintenance of the surface water management system authorized by this permit shall occur in compliance with Florida Statutes and Administrative Code and the conditions of this permit.

PROJECT NAME: Perico Bayou Parking Area

GRANTED TO: Manatee County
Post Office Box 1000
Bradenton, FL 34206-1000

ABSTRACT: This permit authorizes the construction of a surface water management system designed to serve a 1.92-acre roadway project in Manatee County. The surface water management system has been designed to provide water quality treatment for the development. The method of water quality treatment is on-line retention. Information regarding the surface water management system, 100-year floodplain, wetlands and/or surface waters is stated below and on the permitted construction drawings for the project.

OP. & MAINT. ENTITY: Manatee County Public Works

COUNTY: Manatee

SEC/TWP/RGE: 26/34S/16E

**TOTAL ACRES OWNED
OR UNDER CONTROL:** 1.92

PROJECT SIZE: 1.92 Acres

LAND USE: Government

DATE APPLICATION FILED: August 25, 2010

AMENDED DATE: N/A

I. Water Quantity/Quality

POND NO.	AREA ACRES @ TOP OF BANK	TREATMENT TYPE
1	0.13	On-line Retention
TOTAL	0.13	

Comments: The project includes new turn lanes, off street parking area, sidewalk and boardwalk to improve traffic safety and circulation associate with Perico Bayou & Robinson Preserve recreational facilities. Since retention pond will discharge to Perico Bayou, an Outstanding Florida Water, it is designed to provide 50% more treatment volume than what is required under standard criteria. The receiving waterbody (WBID 1868, Sarasota Bay) is impaired for mercury.

A mixing zone is not required.

A variance is not required.

II. 100-Year Floodplain

Encroachment (Acre-Feet of fill)	Compensation (Acre-Feet of excavation)	Compensation Type	Encroachment Result (feet)
0.00	0.00	N/A	N/A

III. Environmental Considerations

Wetlands and other surface waters are not located within the project area for this ERP.

A regulatory conservation easement is not required.

A proprietary conservation easement is not required.

SPECIFIC CONDITIONS

1. If the ownership of the project area covered by the subject permit is divided, with someone other than the Permittee becoming the owner of part of the project area, this permit shall terminate, pursuant to Section 40D-1.6105, F.A.C. In such situations, each land owner shall obtain a permit (which may be a modification of this permit) for the land owned by that person. This condition shall not apply to the division and sale of lots or units in residential subdivisions or condominiums.
2. Unless specified otherwise herein, two copies of all information and reports required by this permit shall be submitted to:

Sarasota Regulation Department
 Southwest Florida Water Management District
 6750 Fruitville Road
 Sarasota, FL 34240-9711

The permit number, title of report or information and event (for recurring report or information submittal) shall be identified on all information and reports submitted.

3. The Permittee shall retain the design engineer, or other professional engineer registered in Florida, to conduct on-site observations of construction and assist with the as-built certification requirements of this project. The Permittee shall inform the District in writing of the name, address and phone number of the professional engineer so employed. This information shall be submitted prior to construction.

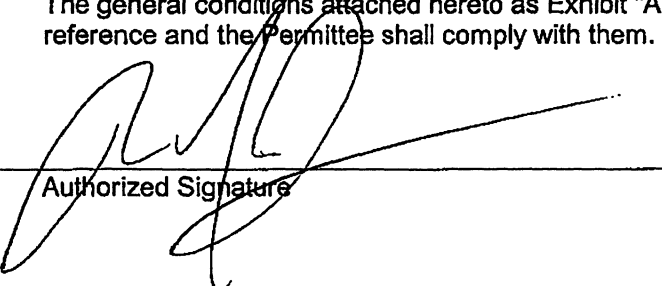
4. Within 30 days after completion of construction of the permitted activity, the Permittee shall submit to the Sarasota Service Office a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing the required Statement of Completion and Request for Transfer to Operation Entity form identified in Chapter 40D-1.659, F.A.C., and signed, dated and sealed as-built drawings. The as-built drawings shall identify any deviations from the approved construction drawings.
5. The District reserves the right, upon prior notice to the Permittee, to conduct on-site research to assess the pollutant removal efficiency of the surface water management system. The Permittee may be required to cooperate in this regard by allowing on-site access by District representatives, by allowing the installation and operation of testing and monitoring equipment, and by allowing other assistance measures as needed on site.
6. All construction is prohibited within the permitted project area until the Permittee acquires legal ownership or legal control of the project area as delineated in the permitted construction drawings.
7. For dry bottom retention systems, the retention areas shall become dry within 72 hours after a rainfall event. If a retention area is regularly wet, this situation shall be deemed to be a violation of this permit.
8. The operation and maintenance entity shall submit inspection reports in the form required by the District, in accordance with the following schedule.

For systems utilizing retention or wet detention, the inspections shall be performed two (2) years after operation is authorized and every two (2) years thereafter.

9. The District, upon prior notice to the Permittee, may conduct on-site inspections to assess the effectiveness of the erosion control barriers and other measures employed to prevent violations of state water quality standards and avoid downstream impacts. Such barriers or other measures should control discharges, erosion, and sediment transport during construction and thereafter. The District will also determine any potential environmental problems that may develop as a result of leaving or removing the barriers and other measures during construction or after construction of the project has been completed. The Permittee must provide any remedial measures that are needed.
10. This permit is issued based upon the Permittee's certification that the surface water management system meets all applicable rules and specifications, including the Conditions for Issuance of Permits provided in Rule 40D-40.301(1), F.A.C. If at any time it is determined by the District that the Conditions for Issuance have not been met, upon written notice by the District, the Permittee shall obtain a permit modification and perform any construction necessary thereunder to correct any deficiencies in the system design or construction to meet District rule criteria. The Permittee is advised that the correction of deficiencies may require re-construction of the surface water management system.
11. Certification of compliance with state water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341 is waived.

GENERAL CONDITIONS

1. The general conditions attached hereto as Exhibit "A" are hereby incorporated into this permit by reference and the Permittee shall comply with them.



Authorized Signature

PART II HEARINGS INVOLVING DISPUTED ISSUES OF MATERIAL FACT

28-106.201 Initiation of Proceedings.

(1) Unless otherwise provided by statute, and except for agency enforcement and disciplinary actions that shall be initiated under Rule 28-106.2015, F.A.C., initiation of proceedings shall be made by written petition to the agency responsible for rendering final agency action. The term "petition" includes any document that requests an evidentiary proceeding and asserts the existence of a disputed issue of material fact. Each petition shall be legible and on 8 1/2 by 11 inch white paper. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced.

(2) All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

(3) Upon receipt of a petition involving disputed issues of material fact, the agency shall grant or deny the petition, and if granted shall, unless otherwise provided by law, refer the matter to the Division of Administrative Hearings with a request that an administrative law judge be assigned to conduct the hearing. The request shall be accompanied by a copy of the petition and a copy of the notice of agency action.

Specific Authority 120.54(3), (5) FS. Law Implemented 120.54(5), 120.569, 120.57 FS. History—New 4-1-97, Amended 9-17-98, 1-15-07.

PART III PROCEEDINGS AND HEARINGS NOT INVOLVING DISPUTED ISSUES OF MATERIAL FACT

28-106.301 Initiation of Proceedings.

(1) Unless otherwise provided by statute and except for agency enforcement and disciplinary actions initiated under subsection 28-106.2015(1), F.A.C., initiation of a proceeding shall be made by written petition to the agency responsible for rendering final agency action. The term "petition" includes any document which requests a proceeding. Each petition shall be legible and on 8 1/2 by 11 inch white paper or on a form provided by the agency. Unless printed, the impression shall be on one side of the paper only and lines shall be doubled-spaced.

(2) All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) An explanation of how the petitioner's substantial interests will be affected by the agency determination;

(d) A statement of when and how the petitioner received notice of the agency decision;

(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;

(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action;

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action; and

(h) A statement that no material facts are in dispute.

Specific Authority 120.54(5) FS. Law Implemented 120.54(5), 120.569, 120.57 FS. History—New 4-1-97, Amended 9-17-98, 1-15-07, 12-24-07.

MC Squared, Inc.

Geotechnical Investigation Report

**Perico Bayou Parking Area Boardwalk
Manatee County, Florida**

Prepared for: **Malcolm Pirnie, Inc./Arcadis**
1300 E. 8th Avenue, Suite F100
Tampa, Florida 33605

Prepared By:
MC Squared, Inc
5808 – A Breckenridge Parkway
Tampa, Florida 33610

Project No. T111018.233
March 2011



**GEOTECHNICAL • ENVIRONMENTAL
MATERIALS TESTING**



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June 3, 2011

Mr. Sam Hobi, P.E.
Malcolm Pirnie, Inc./Arcadis
1300 E. 8th Avenue, Suite F100
Tampa, FL 33605

**Geotechnical Engineering Services Report
Perico Bayou Area Boardwalk
Manatee County, Florida
MC² Inc. Project No. T111018.233**

MC Squared, Inc. (MC²) has performed geotechnical engineering services for the referenced project. The results of this exploration, together with our recommendations, are included in the accompanying report.

Often, because of design and construction details that occur on a project, questions arise concerning subsurface conditions. **MC²** will be pleased to continue our role as geotechnical consultants during the construction phase of this project to provide assistance with construction materials testing and inspection services and to verify that our recommendations are implemented.

We trust that this report will assist you in the design and construction of the proposed project. We appreciate the opportunity to be of service on this project. Should you have any questions, please do not hesitate to contact us.

Respectfully submitted,
MC²

Kermit Schmidt
VP/Chief Engineer
FL PE License No. 45603

Amanda S. Pereira
Project Manager
FL PE License No. 67784

GEOTECHNICAL ENGINEERING SERVICES REPORT

INTRODUCTION

Authorization

This report presents the findings of a subsurface exploration and recommendations based on a geotechnical engineering evaluation for the site of the proposed boardwalk in Manatee County, Florida. The services for this project were performed in general accordance with our proposal number T111018.233, dated February 9, 2011. Authorization to perform the exploration and evaluation was in the form of acceptance of our proposal by Mr. Sam Hobi, P.E. of **Malcolm Pirnie, Inc./Arcadis (Malcolm Pirnie)**.

PROJECT INFORMATION

This geotechnical report is based on information supplied to us by Mr. Sam Hobi and Mr. Chris Hill of **Malcolm Pirnie**. The recommendations provided in this report are based on this information. If any of the noted information is incorrect or has changed, please inform **MC²** so that we may amend the recommendations presented in this report, if appropriate or necessary.

Site Location

The proposed improvements (parking area and boardwalk) are located along SR 64, west of the intersection with Perico Bayou in Manatee County, Florida. The area of the proposed boardwalk is currently covered with brush, trees and mangroves.

Project Description

Project information has been provided by Mr. Sam Hobi and Mr. Chris Hill of **Malcolm Pirnie** through verbal and email communications including the proposed construction plans for the project. The project includes a new parking area, a new pond and a new boardwalk. This report includes recommendations for proposed new boardwalk only located along the north side of SR 64 at Perico Bayou.

The proposed boardwalk is a wood structure and has the following characteristics:

- Length = approx. 307 feet
- 6 feet wide;
- Supported by 8-inch butt diameter timber piles spaced every 10 feet along both sides of the boardwalk;
- No cross bracing is proposed but 2" x 6" stiffeners will be used and attached to the stringers;
- Maximum allowable axial (compression) load per pile = 4.0 kips

- Maximum allowable lateral load per pile at the pile butt = 1.0 kip
- Maximum allowable uplift (tension) load per pile = 0.6 kip

We also understand that a section of retaining wall may also be required adjacent to the boardwalk.

Purpose and Scope of Services

The purpose of this exploration was to evaluate subsurface conditions at the site and to provide recommendations regarding general site development and foundation design (timber piles) for the boardwalk. In addition, we will provide the necessary soil parameters for the lateral earth pressure analysis and design of the wall, which will be performed by others.

The scope of the exploration and analysis included the following:

1. Conducted a visual reconnaissance of the project site. Reviewed the USDA Soil Survey for Manatee County and the USGS topographic maps. Determined approximate boring locations by taping distances from known and/or identified reference points as instructed by **Malcolm Pirnie**.
2. Cleared utilities in the vicinity of the proposed boring locations.
3. Performed two (2) Standard Penetration Test (SPT) borings along the proposed boardwalk as staked in the field by representatives of **Malcolm Pirnie** and **MC²**. The borings were performed to depths of 25 feet below the existing ground surface using a limited access drill rig.
4. Performed two (2) hand auger borings in the area of the boardwalk to depths of 5 and 6 feet, as staked in the field by representatives of **Malcolm Pirnie** and **MC²**.
5. Visually examined all recovered soil samples in the laboratory and performed laboratory tests on selected representative samples to develop the soil legend for the project using the Unified Soil Classification System, as appropriate. Due to the soils encountered, laboratory testing was not deemed necessary.

The above data was used in performing engineering evaluations, analyses, and for developing geotechnical recommendations in the following areas:

1. General assessment of area geology based on our past experience, study of geological literature and boring information.

2. General location and description of potentially deleterious materials encountered in the borings, which may interfere with the proposed construction or performance, including existing fills or surficial organics.
3. Discuss critical design and/or construction considerations based on the soil and groundwater conditions developed from the borings including dewatering, hard soil conditions, etc.
4. Address groundwater levels in the borings and estimate the normal seasonal high groundwater level.
5. Recommendations for construction including a summary report which includes a summary of findings and analysis.
6. Recommendations for foundation design and construction for the selected timber pile foundation system for the proposed boardwalk. We provided lateral and axial capacities;
7. Recommended horizontal earth pressure (active, passive and at-rest) provided for your use in the design of the proposed retaining wall.

The geotechnical scope of services did not include an environmental assessment for determining the presence or absence of wetlands or hazardous or toxic materials in the soil, bedrock, surface water, groundwater, or air, on or below or around this site. Any statements in this report or on the boring logs regarding odors, colors, unusual or suspicious items or conditions are strictly for the information of the client.

LABORATORY TESTING

General

The recovered soil samples were visually classified and stratified in the laboratory by a geotechnical engineer using the USCS in general accordance with the ASTM test designation D-2488. Due to the type of soils encountered, no laboratory testing was deemed necessary.

GENERAL SITE AND SUBSURFACE CONDITIONS

Soil Survey of Manatee County

The U.S. Department of Agriculture - Soil Conservation Service now known as Natural Resources Conservation Service (NRCS), has mapped the shallow soils in this area of Manatee County. This information was outlined in a report titled *The Soil Survey of*

Manatee County, Florida using Version 7, dated January 26, 2010. The aerial images were photographed in June 8, 2007. The Soil Survey indicates that the project is primarily located within an area identified as Estero muck (mapping unit 21). Small areas of other soil types may be present within the mapping unit.

This is a nearly level soil in tidal mangroves swamps. It is poorly drained. Typically, the surface layer is 14 inches thick. In the uppermost 6 inches it is black muck, and below that is black and very dark gray fine sand. The subsurface layer is light brownish gray and grayish brown fine sand 17 inches thick. The subsoil extends to a depth of 56 inches. It is black, dark reddish brown and dark brown fine sand. The substratum to a depth of 80 inches or more is grayish brown fine sand. The seasonal high water table ranges from the existing ground surface to 6 inches below.

The USDA Soil Survey is not necessarily an exact representation of the soils on the site. The mapping is based on interpretation of aerial maps with scattered shallow borings for confirmation. Accordingly, borders between mapping units are approximate and the change may be transitional. Differences may also occur from the typical stratigraphy, and small areas of other similar and dissimilar soils may occur within the soil-mapping unit. As such, there may be differences in the mapped description and the boring descriptions obtained for this report. The survey may serve as a good basis for evaluating the shallow soil conditions of the area.

Subsurface Conditions

Subsurface conditions at the project site was evaluated by drilling a total of two (2) Standard Penetration Test borings (SPT) to a depth of 25 feet, using limited access drilling equipment. In addition, two (2) hand auger borings were performed near the SPT borings to evaluate the shallow soils and estimate the seasonal high groundwater level. The approximate locations of the borings are shown on the **Report of Core Borings/Boring Location Plan (Sheet 1)** presented in the **Appendix A**.

The SPT borings were performed in general accordance with ASTM D-1586. Continuous SPT soil sampling was performed in the upper 10 feet and at 5-foot intervals thereafter. After seating the sampler 6 inches into the bottom of the borehole, the number of blows required to drive the sampler one foot is known as the "N" value or blowcount. The blowcount has been empirically correlated to soil properties. The recovered samples were placed into containers and returned to our office for visual classification by our staff.

In addition, two (2) hand auger borings were performed along the proposed boardwalk to estimate the seasonal high groundwater level. The auger borings were extended to depths of 5 and 6 feet below the existing ground surface.

The hand auger borings were performed by manually rotating a bucket auger into the ground in approximately 4 to 6 inch increments. As each soil type was encountered, its

depth interval was recorded and representative samples taken for review in the laboratory. The hand auger borings were conducted in general accordance with ASTM D-1452 (Standard Practice for Soil Investigation and Sampling by Auger Borings).

The following description is of a generalized nature, provided to highlight the major subsurface strata encountered in the borings performed at the site. The boring logs should be reviewed for specific information as to individual boring locations. The stratifications shown on the boring logs represent the conditions only at the actual boring locations. Variations may occur and should be expected between boring locations. The stratifications represent the approximate boundary between subsurface materials and the transition may be gradual.

The SPT and hand auger soil borings (B-1, B-2 and AB-1 and AB-2) performed along the proposed boardwalk generally included very loose to medium dense fine sands, slightly silty fine sands or slightly clayey fine sand (SP/SP-SM/SP-SC) to depths of about 22 feet below the existing ground surface (BGS). Most of the sands had traces to some shell fragments in the top 5 to 10 feet and boring B-1 encountered roots and wood fragments extending from 4 to 6 feet.

Very stiff to very hard calcareous clay with limestone fragments (CL) followed, extending to the boring termination depth of 25 feet.

Even though shallow organic soils were not encountered in the SPT and hand auger borings, based on the Manatee County Soil Survey, the proposed boardwalk is within the Estero muck (mapping unit 21) with the top 6 inches being black muck.

Groundwater Information

Groundwater was encountered at depths ranging from 3.5 to 4.5 feet below the existing ground surface in hand auger borings AB-1 and AB-2. The SPT borings were performed using mud-rotary drilling methods which may yield an inaccurate measurement of the stabilized water level at the time of drilling. In addition, the SPT borings are filled with cement grout-bentonite chips upon completion; therefore, a stabilized water table reading is not generally obtained in these borings. The water table can be different at other times and will fluctuate seasonally based on rainfall quantities, the water level in the nearby canals, surface drainage conditions and other factors. Based on our review of the Soil Survey of Manatee County, Florida and soil samples collected in the field, we estimate the Seasonal High Water to be at a depth ranging from 0 to 0.5 feet below the existing ground surface. For our analyses, we assumed the groundwater to be at the surface.

We recommend that the contractor determine the actual groundwater levels at the time of construction to further determine groundwater impact on the construction procedures.

EVALUATION AND RECOMMENDATIONS

The following design recommendations have been developed on the basis of the previously described project characteristics and subsurface conditions encountered. If there is any change in these project criteria, including project location on the site, a review must be made by MC² to determine if any modifications in the recommendations will be required. The findings of such a review should be presented in a supplemental report.

Once final design plans and specifications are available, a general review by MC² is strongly recommended as a means to check that the evaluations made in preparation of this report are correct and that earthwork and foundation recommendations are properly interpreted and implemented.

Foundations

Timber pile was the preferred and selected foundation system to support the boardwalk and was provided to us by **Malcolm Pirnie**. This system will provide the most economical and efficient foundation system for the proposed boardwalk.

The following ultimate loads were provided by **Malcolm Pirnie**;

- Maximum allowable axial (compression) load per pile = 4.0 kips
- Maximum allowable lateral load per pile at the pile butt = 1.0 kip
- Maximum allowable uplift (tension) load per pile = 0.6 kip

As suggested by **Malcolm Pirnie**, a 10-inch diameter (butt) timber pile tapered to an 8-inch diameter (tip) was analyzed and the results presented below. A factor of safety of 3.0 was applied to the allowable axial (compression) load to obtain the ultimate axial (compression) load and 12 kips were used in the analyses. A total of approximate 62 to 70 production piles are anticipated for the project.

Timber Piles

Timber piles have the advantages of being easy to handle, easy to cut off, relatively inexpensive, readily available, and naturally tapered. They have the disadvantages of decaying above the water table (if untreated), having low capacities, being prone to damage by hard driving, and being difficult to splice.

Durability is not a design concern if the timber pile is below the permanent water table. When a timber pile is subjected to alternate wetting and drying or located above the water table, the service life will be relatively short because of decay and damage by insects unless the pile is treated with preservatives for protection against damage from marine borers. The most common method of protection is pressure creosote treatment. Standards for pressure creosote treatments are recommended by The American Wood Preservers Institute (AWPI). ASTM D-1760 and FDOT Standard Specifications,

Section 955 provides specifications for pressure treatment of timber products. ASTM D-25, Standard Specification for Round Timber Piles provides guidelines on minimum pile dimensions and straightness. For hard driving, the tip should be provided with a metal shoe or a point.

Axial Pile Capacity (Compression)

The SPT borings performed for the proposed boardwalk extended to maximum depth of 25 feet in accordance with our proposal. The SPT and hand auger soil borings (B-1, B-2 and AB-1 and AB-2) performed along the proposed boardwalk generally included very loose to medium dense fine sands, slightly silty fine sands or slightly clayey fine sands (SP/SP-SM/SP-SC) to depths of about 22 feet below the existing ground surface (BGS). Most of the sands had traces to some shell fragments in the top 5 to 10 feet and boring B-1 encountered roots and wood fragments extending from 4 to 6 feet. Very stiff to very hard calcareous clay with limestone fragments (CL) followed extending to the boring termination depth of 25 feet. Even though shallow organic soils were not encountered in the SPT and hand auger borings, based on the Manatee County Soil Survey, the proposed boardwalk is within the Estero muck (mapping unit 21) with the top 6 inches being black muck.

Axial pile capacity analyses were performed for the boardwalk using a maximum ultimate load of 12 kips (4 kips times factor of safety of 3) per pile and to determine the minimum pile embedment (below the existing ground surface) required for this load. The axial capacity analyses were performed for a minimum butt diameter of 10 inches and a minimum tip diameter of 8 inches. Piling will develop support from a combination of skin friction and end bearing. Due to the relatively light design loads and type of structure, a test pile program is costly and not recommended. Sample calculations are shown in **Appendix B**. The results of our analyses are as follows.

Treated Timber Pile – 10” butt diameter; 8” tip diameter	
Ultimate Axial Pile Capacity (Compression) Load (kips)	Minimum pile embedment depth below the existing ground surface (feet)
12	22

Tension Pile Capacity

The allowable tension capacities for the 10" butt diameter and 8" tip diameter timber piles are shown on the following page.

Treated Timber Pile – 10” butt diameter; 8” tip diameter	
Ultimate Pile Capacity (Tension) Load (kips)	Minimum pile embedment depth below the existing ground surface (feet)
2.0*	22
* = factor of safety is greater than 3 and is acceptable	

Lateral Load Analysis

Lateral load analyses were performed for a timber pile having a minimum 10-inch butt diameter and a minimum tip diameter of 8 inches and a total embedded length of 22 feet. In addition, the following conditions were used in our analyses.

Treated Timber Pile – 10” butt diameter; 8” tip diameter	
Description	10-inch butt diameter; 8-inch tip diameter (minimum)
Length of Pile	24 feet
Diameter of Pile	10 inch butt; 8 inch tip
Pile Cut-off (Unsupported Length)	2.0 feet above the existing ground
Pile Embedment below Ground surface	22.0 feet
Unrestrained against rotation (Free Condition)	Yes
Modulus of Elasticity (timber)	1,500 ksi
Lateral Load Applied at top of pile	1.0 kip
Maximum Axial Compression Load	4.0 kips
Maximum deflection at Top	< 0.25 inches

Sample calculations are presented in **Appendix B**. Based on the lateral load provided (ultimate load of 1 kip), it is recommended that all the piles be tipped at a minimum depth of 20 feet below the exiting ground surface.

Pile Settlement

For an ultimate load of 4 kips per pile, individual pile head settlement is estimated to be on the order of ½ to ¼ inch.

Indicator Piles and Production Piles

At least three (3) indicator piles should be installed prior to installation of production piles for the boardwalk. These indicator piles may be installed at production pile locations and prior to establishing/ordering the production piles by the project structural

engineer. This indicator pile should be driven to suitable driving resistance as stated in this report and at the direction of the Geotechnical Engineer. The installation of the pile should also be performed with the latest FDOT Standard Specification for Road and Bridge Construction Section 455. The Geotechnical Engineer should monitor the driving of the pile and analyze the driving records, at which time he may request retapping the test piles shortly after initial driving.

The suggested production piles lengths may be on the order of 30 feet to account for minor variations in final tip depth. The final length must be recommended by the project structural engineer. Once again, it should be noted that timber piles are difficult to splice; therefore, some conservatism in choosing production pile lengths is warranted.

Pile Characteristics

It is recommended that the timber piles meet the requirements of ASTM D-25 for round timber tip bearing piles. The pile should be clean peeled and pressure treated in accordance with the requirements of AWWA C3. The timber pile design stresses should be established in accordance with ASTM D-2899 and the local applicable Building Code.

Pile Installation/Driving Criteria

At this time, no information concerning the type of equipment that will be used for pile driving was provided. We recommend using a single-acting air hammer with 15,000 to 18,000 ft-lbs energy to drive the piles. Using this hammer, driving can be terminated after achieving 20 blows per foot for a minimum of two (2) consecutive feet of penetration or 30 blows per foot for one (1) foot of penetration. If more than 30 blows are required to advance the pile six (6) inches, driving should be terminated. However, the depth of penetration should not be less than twenty (20) feet below the existing ground surface. For hard driving, the tip should be protected with a metal shoe.

Driving of timber piles often result in the crushing of fibers on the driving end (brooming). This can be controlled by using a driving cap with cushion material and metal strapping around the butt. Timber pile splices are undesirable and should not be allowed. If a design load capacity (pile depth and resistance) is not reached with one (1) pile, the pile should be removed and replaced with a longer pile.

The installation of the timber piles should be in accordance with local building code requirements and should be monitored by a qualified geotechnical engineer or his representative. The engineer should verify and record all aspects of the installation.

The timber piles must have a minimum embedment depth of 20 feet for lateral stability and pile head deflections to be as previously indicated. If while driving the indicator and production piles, refusal is achieved with embedment depths less than the above lengths, then each pile location may be predrilled (7 inch diameter holes) or jetting

procedures used to install the piles to the required tip elevation. These techniques should be avoided as much as possible, since they will reduce the pile capacity.

Piles should be installed under continuous monitoring by a qualified field technician or geotechnical engineer from the office of MC² in order to make field judgments of pile penetration and construction, and to check for satisfactory foundation support conditions. Driven piles should be monitored for penetration, blowcounts during driving and hammer action. Vibration monitoring is recommended in order to ensure that damage to adjacent structures does not occur during pile driving.

Earth Pressures on Proposed Retaining Walls

Below grade walls restrained at the top should be designed for "at rest" earth pressure conditions. Retaining walls that are free to deflect should be designed for "active" earth pressure conditions. The "passive" earth pressure state should be used for soils supporting the retaining structure, such as toe backfill. Soil parameters, including active and passive earth pressure coefficients for the soils encountered in borings B-1 and B-2 are presented in **Table 1** and **Sheet 1** in the **Appendix A**.

The table below presents recommended values of at-rest earth pressure coefficient, and equivalent fluid pressures for conditions above and below the water table.

Earth Pressure State	Earth Pressure Coefficient	Equivalent Fluid Pressure (pcf)	
		Above Water	Below Water
At-Rest	0.5	60	90

These design recommendations have assumed that the wall has horizontal backfill and no surcharge loads, using soils with an approximate angle of internal friction of 30 degrees, no cohesion, a total unit weight of 120 pcf, no factor of safety. Since a permanent drainage system behind the below grade walls of the structure will not be practical, the design needs to include hydrostatic pressures also. For analysis of sliding resistance of the base of the retaining walls, the ultimate coefficient of friction may be taken as 0.34 between concrete and soil. If the walls are designed using earth pressure coefficients, the hydrostatic pressure due to groundwater must be included.

In order to avoid wall damage due to excessive compaction, hand operated mechanical tampers should be used to compact the granular material; heavy compaction equipment should not be allowed within five (5) feet of the walls. The compaction behind these walls should achieve a minimum of 95 percent of the modified Proctor maximum dry density (ASTM D-1557).

Site Preparation

Stripping and Grubbing: The initial step in routine site preparation should be the complete removal of all topsoil, organic soils from near wetland areas, trees, major root systems, tree stumps, construction debris and other deleterious materials from beneath and to 10 feet beyond proposed structures. Based on the results of the initial borings, the typical stripping thickness is expected to be about 6 to 12 inches at this site. However, it may be greater in low areas and probably more than 36 inches in areas of major root systems, with stumps and shallow organic soils.

During site clearing and while excavating for site utilities the exposed soils should be carefully observed for the presence of deleterious materials (e.g., organic soils or near surface clays), which could be detrimental to structure support. Accordingly, if questionable soils are indicated in structure areas during construction, these soils should be evaluated by a geotechnical engineer for possible removal and replacement with compacted structural fill.

Subgrade Proofrolling and Compaction: After the verification of satisfactory initial stripping and backfill operations by a Geotechnical Engineer from MC² or his/her representative, the structure areas should be proofrolled using a large vibratory roller (static roller if near structures). Proofrolling should occur at the final cut or existing stripped grade elevation, whichever is lower. The purposes of the proofrolling will be to help detect any additional areas where unsuitable soils are present as well as to uniformly densify the near-surface soils, improving bearing capacity and reducing settlements. Materials which yield excessively during the proofrolling should be undercut and replaced with well-compacted structural fill.

It is important that the proofrolling utilize a large, heavy vibratory roller (static roller if near structures) with a minimum static drum weight of 10 tons and minimum impact energy of 36,000 lb. (Dynapac CA-25 or equivalent) to achieve the desired depth of effect. Proofrolling of the structure areas should consist of at least 5 overlapping passes in each of two perpendicular directions (total of 10 passes) and should be observed by a Geotechnical Engineer from MC² or his representative. Unstable soils which are revealed by proof rolling and which cannot be adequately densified in place should be removed and replaced under the recommendations of the MC² representative.

Proofrolling of the structure areas should continue for the required number of passes and until the soil at a depth of 12 inches below the stripped surface has attained a minimum of 95% of the soil's modified Proctor maximum dry density as determined by ASTM designation D-1557. In-place density tests should be performed by an experienced geotechnical engineering technician working under the direction of a licensed Geotechnical Engineer from MC² to verify the required degree of compaction. It may be necessary to adjust the moisture content of the soil to facilitate compaction.

A moisture content within two (2) percentage points of the optimum indicated by the modified Proctor test (ASTM D-1557) is recommended.

The contractor should exercise caution during the proofrolling and compaction of soils as not to cause settlement of the existing structures due to vibrations. Contractor must control and adjust the vibration as not to disturb any existing structures and/or subsurface utilities that may be in the vicinity of the project. The contractor is solely responsible for any settlement caused by his actions.

Abandoned underground pipes, if left in place, should be filled with flowable concrete.

It is possible that some soft or loose soils will not be identified and properly remediated during site preparation. Footing evaluations for the retaining wall should be performed prior to reinforcement and concrete placement. If unsuitable bearing soils are encountered, these soils will need to be recompacted in place or removed and replaced with properly compacted fill, or foundations deepened, to achieve suitable bearing.

After footings are excavated, foundation bearing surface evaluations should be performed and concrete placed as quickly as possible to avoid exposure of the footing bottoms to changes in moisture content. If it is required that foundation excavations be left open for more than one day, they should be protected to reduce evaporation or entry of moisture.

Selection and Placement of Structural Fill

Materials selected to be used as structural fill should be inorganic, non-plastic, granular soils (clean sand to slightly silty or slightly clayey sands, Unified Soil Classification SP, SP-SM or SP-SC), free of any deleterious materials such as clay clods, waste construction debris and tree stumps. Fill materials should also have a Modified Proctor maximum dry density greater than 95 pounds per cubic foot (pcf), and Atterberg Liquid Limit less than 20, a Plasticity Index of less than 10, and a maximum particle size of 1 inch or less. The majority of the on-site near surface sandy soils will meet this requirement. Careful evaluation of any clayey soils should be made prior to use. The fill should be placed in level lifts not to exceed 12 inches loose thickness.

Materials that will be used for backfill of below-grade walls should further be restricted to those materials that are granular. The soil classification for acceptable below-grade wall backfill material will include SP soils.

We recommend that proposed fill materials be tested prior to beginning earthwork to determine if their material characteristics meet the above criteria. The moisture content of fill soils at the time of placement and compaction should generally be within plus or minus two (2) percentage points of their optimum moisture content. More stringent moisture limits may be necessary with certain soils. Localized dewatering may be required depending on the time of the year in order to control moisture.

We recommend that structural fill be compacted to a minimum of 95 percent of the modified Proctor maximum dry density (ASTM D-1557). A representative of MC² should observe fill placement operations and perform density tests concurrently to indicate if the specified compaction is being achieved.

All fill placed in utility line trenches and adjacent to footings or beneath slabs-on-grade should also be properly placed and compacted to the specifications stated above. However, in these restricted working areas, compaction should be accomplished with light weight, hand-guided compaction equipment, and lift thickness should be limited to a maximum of 6 inches loose thickness. To facilitate compaction, the fill moisture content should be controlled to within two (2) percentage points of the optimum determined by the modified Proctor test (ASTM D-1557).

Reuse of Excavated Soils as Structural Fill

Although they were not found during our drilling operation, organic soils from the wetland areas may be encountered during construction. These soils cannot be used for structural fill.

Most of the residual soils at the site will, in our opinion, be suitable for reuse as structural fill material. Routine adjustment of moisture content will generally be necessary to allow compaction in accordance with project specifications. The planned fill soils should be evaluated to see that they meet the recommended material properties.

Federal Excavation Regulations

In Federal Register Volume 54, No. 209 (October 1989), the United States Department of Labor, Occupational Safety and Health Administration (OSHA) amended its "Construction Standards for Excavations, 29 CFR, Part 1926, Subpart P." This document was issued to better insure the safety of workmen entering trenches or excavations. It is mandated by this federal regulation that all excavations, whether they be utility trenches, basement excavations, or footing excavations, be constructed in accordance with the revised OSHA guidelines. It is our understanding that these regulations are being strictly enforced and if they are not closely followed, the owner and the contractor could be liable for substantial penalties.

The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of both the excavation sides and bottom. The contractor's responsible person, as defined in 29 CFR Part 1926, should evaluate the soil exposed in the excavations as part of the contractor's safety procedures. In no case should slope height, slope inclination, or excavation depth, including utility trench excavation depth, exceed those specified in local, state, and federal safety regulations.

We are providing this information solely as a service to our client. **MC²** is not assuming responsibility for construction site safety or the contractor's activities; such responsibility is not being implied and should not be inferred.

Drainage and Groundwater Considerations

Groundwater may be a concern dependant on final grades and the time of year construction is performed. For limited, relatively shallow excavations below the groundwater level, pumping from the excavation or sumps should be sufficient to control groundwater seepage. Deeper and larger excavations, although not anticipated, may require more sophisticated dewatering measures such as well points or cut-off walls.

Undercut or excavated areas should be sloped toward one corner to facilitate removal of any collected rainwater, groundwater or surface runoff. Positive site drainage should be provided to reduce infiltration of surface water around the perimeter of any above-ground structures and beneath the floor slabs. All grades should be sloped away from the structures and surface drainage should be collected and discharged such that water is not permitted to infiltrate the immediate area surrounding structures.

REPORT LIMITATIONS

The recommendations detailed herein are based on the available soil information obtained by **MC²** and information provided by Mr. Sam Hobi, P.E. with **Malcolm Pirnie**. If there are any revisions to the plans for this project or if deviations from the subsurface conditions noted in this report are encountered during construction, **MC²** should be notified immediately to determine if changes in the foundation, or other, recommendations are required. In the event that **MC²** is not retained to perform these functions, **MC²** can not be responsible for the impact of those conditions on the performance of the project.

The geotechnical engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional geotechnical engineering practices in the local area. No other warranties are implied or expressed.

After the plans and specifications are more complete, the geotechnical engineer should be provided the opportunity to review the final design plans and specifications to assess that our engineering recommendations have been properly incorporated into the design documents. At that time, it may be necessary to submit supplementary recommendations. This report has been prepared for the exclusive use of Mr. Nelson Sotelo and Mr. Sam Hobi, P.E. with **Malcolm Pirnie, Inc./Arcadis**.

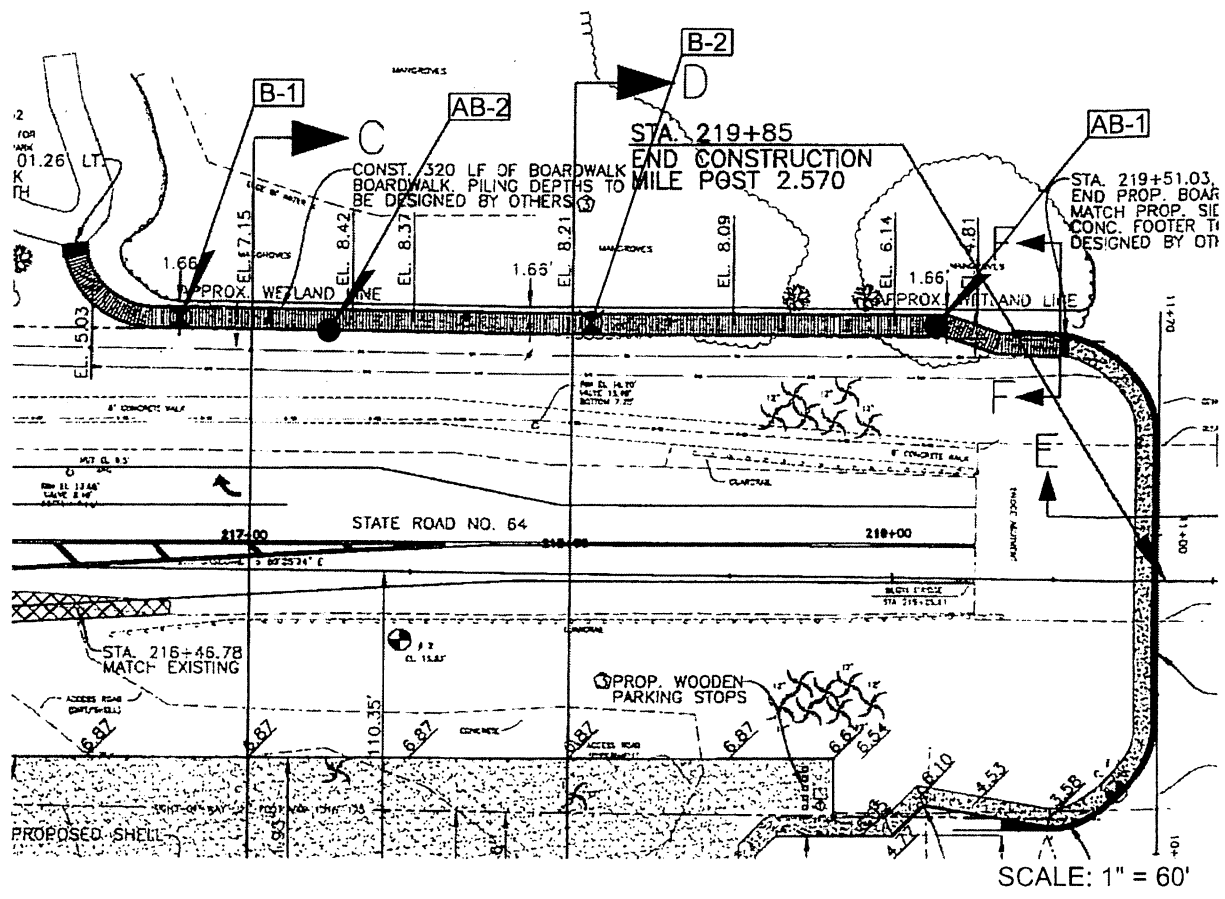
APPENDIX A

Sheet 1 – Report of Core Borings/Boring Location Plan

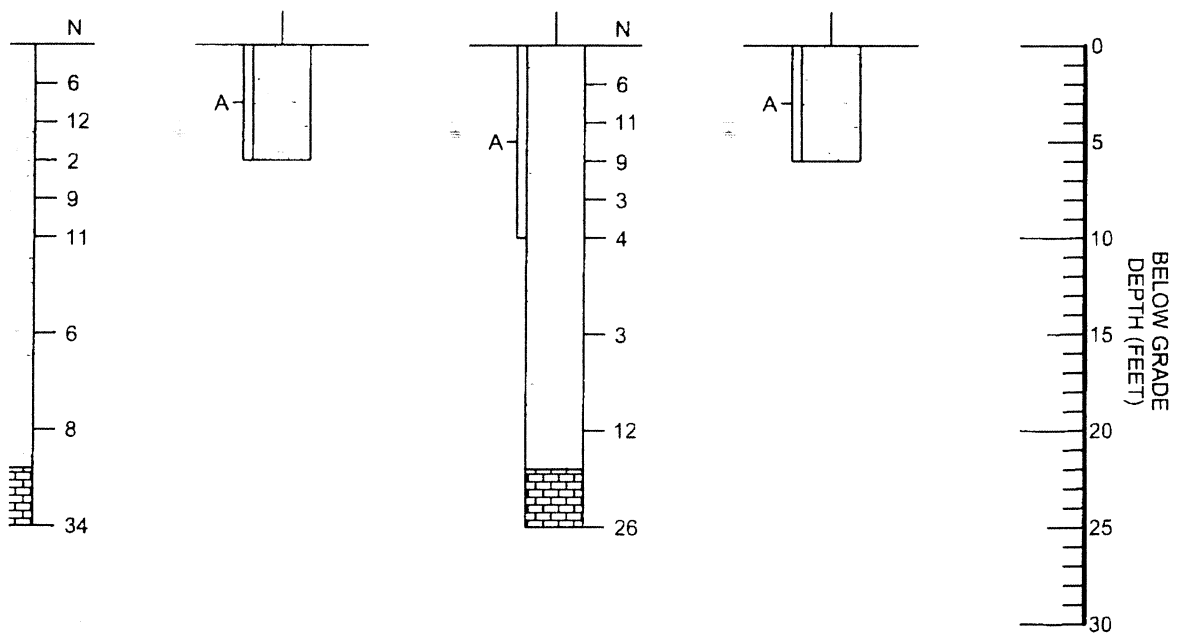
Table 1 – Soil Parameters for Design of Proposed Retaining Wall

Table 2 – Boring Location and Groundwater Level

Test Procedures



NO. = B-1 +77, 78' LT /25/11
 BORING NO. = AB-2 STA. 217+25, 75' LT DATE = 2/25/11
 BORING NO. = B-2 STA. 218+05, 78' LT DATE = 2/25/11
 BORING NO. = AB-1 STA. 219+12, 78' LT DATE = 2/25/11



BORING ID	ELEV. RANGE NGVD, FT	DEPTH RANGE, FT	SPT "N" VALUE RANGE	UNIFIED SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
					SATURATED	SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
B-1	---	0-4	6-12	SP/SP-SM/SP-SC	105.0	42.6	29	0	0.347	2.88
	---	4-6	2	SP/SP-SM/SP-SC	100.0	37.6	26	0	0.391	2.56
	---	6-22	6-11	SP/SP-SM/SP-SC	105.0	42.6	29	0	0.347	2.88
	---	22-25	34	CL	135.0	72.6	0	4250	1.00	1.00
B-2	---	0-6	6-11	SP/SP-SM/SP-SC	105.0	42.6	29	0	0.347	2.88
	---	6-17	3-4	SP/SP-SM/SP-SC	100.0	37.6	28	0	0.361	2.77
	---	17-22	12	SP/SP-SM/SP-SC	110.0	47.6	30	0	0.333	3.00
	---	22-25	26	CL	135.0	72.6	0	3250	1.00	1.00

LEGEND

(SP/SP-SM/SP-SC) PALE BROWN, BROWN, OR DARK BROWN FINE SAND, SLIGHTLY SILTY FINE SAND, TO SLIGHTLY CLAYEY FINE SAND
 (CL) PALE BROWN CALCAREOUS CLAY WITH LIMESTONE FRAGMENTS.

- A WITH SHELL FRAGMENTS
- B WITH ROOTS AND WOOD FRAGMENTS

- NOTES:**
- SPT BORING LOCATION
 - HAND AUGER BORING LOCATION
 - N SPT N-VALUE
 - WATER TABLE

BORING LOCATIONS ARE APPROXIMATE.

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	30-50
VERY HARD	GREATER THAN 50

Table 1

Summary of Soil Parameters
 Perico Bayou Parking Area Boardwalk
 Manatee County, Florida
 MC² Inc. Project No. T111018.233

Boring No.	Elevation Range, NGVD, Ft	Depth range, ft	SPT "N" Value Range	Unified Soil Classification	Approximate Soil Unit Weight (pcf)		Soil Angle of Friction (degrees)	Cohesion (psf)	Earth Pressure Coefficient	
					saturated	submerged			Active (Ka)	Passive (Kp)
B-1	-	0-4	6-12	SP/SP-SM/SP-SC	105.0	42.6	29	0	0.347	2.88
	-	4-6	2	SP/SP-SM/SP-SC	100.0	37.6	26	0	0.391	2.56
	-	6-22	6-11	SP/SP-SM/SP-SC	105.0	42.6	29	0	0.347	2.88
	-	22-25	34	CL	135.0	72.6	0	4250	1.00	1.00
B-2	-	0-6	6-11	SP/SP-SM/SP-SC	105.0	42.6	29	0	0.347	2.88
	-	6-17	3-4	SP/SP-SM/SP-SC	100.0	37.6	28	0	0.361	2.77
	-	17-22	12	SP/SP-SM/SP-SC	110.0	47.6	30	0	0.333	3.00
	-	22-25	26	CL	135.0	72.6	0	3250	1.00	1.00

Table 2
Boring Location and Groundwater Level
Perico Bayou Parking Area Boardwalk
Manatee County, Florida
MC² Inc. Project No. T111018.233

Boring No.	Approximate Station	Approximate Offset from edge of pavement, feet	Approximate Groundwater Table depth, feet
Hand Auger and SPT Borings			
B-1	216+77	78 LT	3.5
AB-2	217+25	75 LT	4.5
B-2	218+05	78 LT	4.5
AB-1	219+12	78 LT	4.5

TEST PROCEDURES

The general field procedures employed by **MC Squared, Inc. (MC²)** are summarized in the American Society for Testing and Materials (ASTM) Standard D420 which is entitled "Investigating and Sampling Soil and Rock". This recommended practice lists recognized methods for determining soil and rock distribution and groundwater conditions. These methods include geophysical and in-situ methods as well as borings.

Standard Drilling Techniques

To obtain subsurface samples, borings are drilled using one of several alternate techniques depending upon the subsurface conditions. Some of these techniques are:

In Soils:

- a) Continuous hollow stem augers.
- b) Rotary borings using roller cone bits or drag bits, and water or drilling mud to flush the hole.
- c) "Hand" augers.

In Rock:

- a) Core drilling with diamond-faced, double or triple tube core barrels.
- b) Core boring with roller cone bits.

The drilling method used during this exploration is presented in the following paragraph.

Hollow Stem Augering: A hollow stem augers consists of a hollow steel tube with a continuous exterior spiral flange termed a flight. The auger is turned into the ground, returning the cuttings along the flights. The hollow center permits a variety of sampling and testing tools to be used without removing the auger.

Core Drilling: Soil drilling methods are not normally capable of penetrating through hard cemented soil, weathered rock, coarse gravel or boulders, thin rock seams, or the upper surface of sound, continuous rock. Material which cannot be penetrated by auger or rotary soil-drilling methods at a reasonable rate is designated as "refusal material". Core drilling procedures are required to penetrate and sample refusal materials.

Prior to coring, casing may be set in the drilled hole through the overburden soils, to keep the hole from caving and to prevent excessive water loss. The refusal materials are then cored according to ASTM D-2113 using a diamond-studded bit fastened to the end of a hollow, double or triple tube core barrel. This device is rotated at high speeds, and the cuttings are brought to the surface by circulating water. Core samples of the material penetrated are protected and retained in the swivel-mounted inner tube. Upon completion of each drill run, the core barrel is brought to the surface, the core recovery is measured, and the core is placed, in sequence, in boxes for storage and transported to our laboratory.

Sampling and Testing in Boreholes

Several techniques are used to obtain samples and data in soils in the field; however the most common methods in this area are:

- a) Standard Penetrating Testing
- b) Undisturbed Sampling
- c) Dynamic Cone Penetrometer Testing
- d) Water Level Readings

The procedures utilized for this project are presented below.

Standard Penetration Testing: At regular intervals, the drilling tools are removed and soil samples obtained with a standard 2 inch diameter split tube sampler connected to an A or N-size rod. The sampler is first seated 6 inches to penetrate any loose cuttings, and then driven an additional 12 inches with blows of a 140 pound safety hammer falling 30 inches. Generally, the number of hammer blows required to drive the sampler the final 12 inches is designated the "penetration resistance" or "N" value, in blows per foot (bpf). The split barrel sampler is designed to retain the soil penetrated, so that it may be returned to the surface for observation. Representative portions of the soil samples obtained from each split barrel sample are placed in jars, sealed and transported to our laboratory.

The standard penetration test, when properly evaluated, provides an indication of the soil strength and compressibility. The tests are conducted according to ASTM Standard D1586. The depths and N-values of standard penetration tests are shown on the Boring Logs. Split barrel samples are suitable for visual observation and classification tests but are not sufficiently intact for quantitative laboratory testing.

Water Level Readings: Water level readings are normally taken in the borings and are recorded on the Boring Records. In sandy soils, these readings indicate the approximate location of the hydrostatic water level at the time of our field exploration. In clayey soils, the rate of water seepage into the borings is low and it is generally not possible to establish the location of the hydrostatic water level through short-term water level readings. Also, fluctuation in the water level should be expected with variations in precipitation, surface run-off, evaporation, and other factors. For long-term monitoring of water levels, it is necessary to install piezometers.

The water levels reported on the Boring Logs are determined by field crews immediately after the drilling tools are removed, and several hours after the borings are completed, if possible. The time lag is intended to permit stabilization of the groundwater level that may have been disrupted by the drilling operation.

Occasionally the borings will cave-in, preventing water level readings from being obtained or trapping drilling water above the cave-in zone.

BORING LOGS

The subsurface conditions encountered during drilling are reported on a field boring log prepared by the Driller. The log contains information concerning the boring method, samples attempted and recovered, indications of the presence of coarse gravel, cobbles, etc., and observations of groundwater. It also contains the driller's interpretation of the soil conditions between samples. Therefore, these boring records contain both factual and interpretive information. The field boring records are kept on file in our office.

After the drilling is completed a geotechnical professional classifies the soil samples and prepares the final Boring Logs, which are the basis for our evaluations and recommendations.

SOIL CLASSIFICATION

Soil classifications provide a general guide to the engineering properties of various soil types and enable the engineer to apply his past experience to current problems. In our investigations, samples obtained during drilling operations are examined in our laboratory and visually classified by an engineer. The soils are classified according to consistency (based on number of blows from standard penetration tests), color and texture. These classification descriptions are included on our Boring Logs.

The classification system discussed above is primarily qualitative and for detailed soil classification two laboratory tests are necessary; grain size tests and plasticity tests. Using these test results the soil can be classified according to the AASHTO or Unified Classification Systems (ASTM D-2487). Each of these classification systems and the in-place physical soil properties provides an index for estimating the soil's behavior. The soil classification and physical properties are presented in this report.

The following table presents criteria that are typically utilized in the classification and description of soil and rock samples for preparation of the Boring Logs.

Relative Density of Cohesionless Soils From Standard Penetration Test		Consistency of Cohesive Soils	
Very Loose	≤ 4 bpf	Very Soft	≤ 2 bpf
Loose	5 - 10 bpf	Soft	3 - 4 bpf
Medium Dense	11 - 30 bpf	Firm	5 - 8 bpf
Dense	31 - 50 bpf	Stiff	9 - 15 bpf
Very Dense	> 50 bpf	Very Stiff	16 - 30 bpf
		Hard	30 - 50 bpf
		Very Hard	> 50 bpf
(bpf = blows per foot, ASTM D 1586)			
Relative Hardness of Rock		Particle Size Identification	
Very Soft	Hard Rock disintegrates or easily compresses to touch; can be hard to very hard soil.	Boulders	Larger than 12"
Soft	May be broken with fingers.	Cobbles	3" - 12"
Moderately Soft	May be scratched with a nail, corners and edges may be broken with fingers.	Gravel	
		Coarse	3/4" - 3"
		Fine	4.76mm - 3/4"
Moderately Hard	Light blow of hammer required to break samples.	Sand	
		Coarse	2.0 - 4.76 mm
		Medium	0.42 - 2.00 mm
		Fine	0.42 - 0.074 mm
Hard	Hard blow of hammer required to break sample.	Fines (Silt or Clay)	Smaller than 0.074 mm
Rock Continuity		Relative Quality of Rocks	
RECOVERY = $\frac{\text{Total Length of Core}}{\text{Length of Core Run}} \times 100\%$		RQD = $\frac{\text{Total core, counting only pieces > 4" long}}{\text{Length of Core Run}} \times 100\%$	
<u>Description</u>	<u>Core Recovery %</u>	<u>Description</u>	<u>RQD %</u>
Incompetent	Less than 40	Very Poor	0 - 25 %
Competent	40 - 70	Poor	25 - 50 %
Fairly Continuous	71 - 90	Fair	50 - 75 %
Continuous	91 - 100	Good	75 - 90 %
		Excellent	90 - 100 %

APPENDIX B

SAMPLE CALCULATIONS

ULTIMATE - SUMMARY OF CAPACITIES

Depth	Skin Friction	End Bearing	Total Capacity
0.01 ft	0.00 Kips	0.00 Kips	0.00 Kips
9.01 ft	1.11 Kips	1.97 Kips	3.08 Kips
11.99 ft	1.97 Kips	2.63 Kips	4.59 Kips
12.01 ft	1.97 Kips	3.07 Kips	5.04 Kips
21.01 ft	5.56 Kips	4.65 Kips	10.21 Kips
21.99 ft	6.07 Kips	4.65 Kips	10.72 Kips
22.01 ft	6.17 Kips	11.78 Kips	17.95 Kips
24.99 ft	35.43 Kips	11.78 Kips	47.21 Kips

USE $L = 22$

$$Q_A = 4.1 \text{ kips}$$

MAX

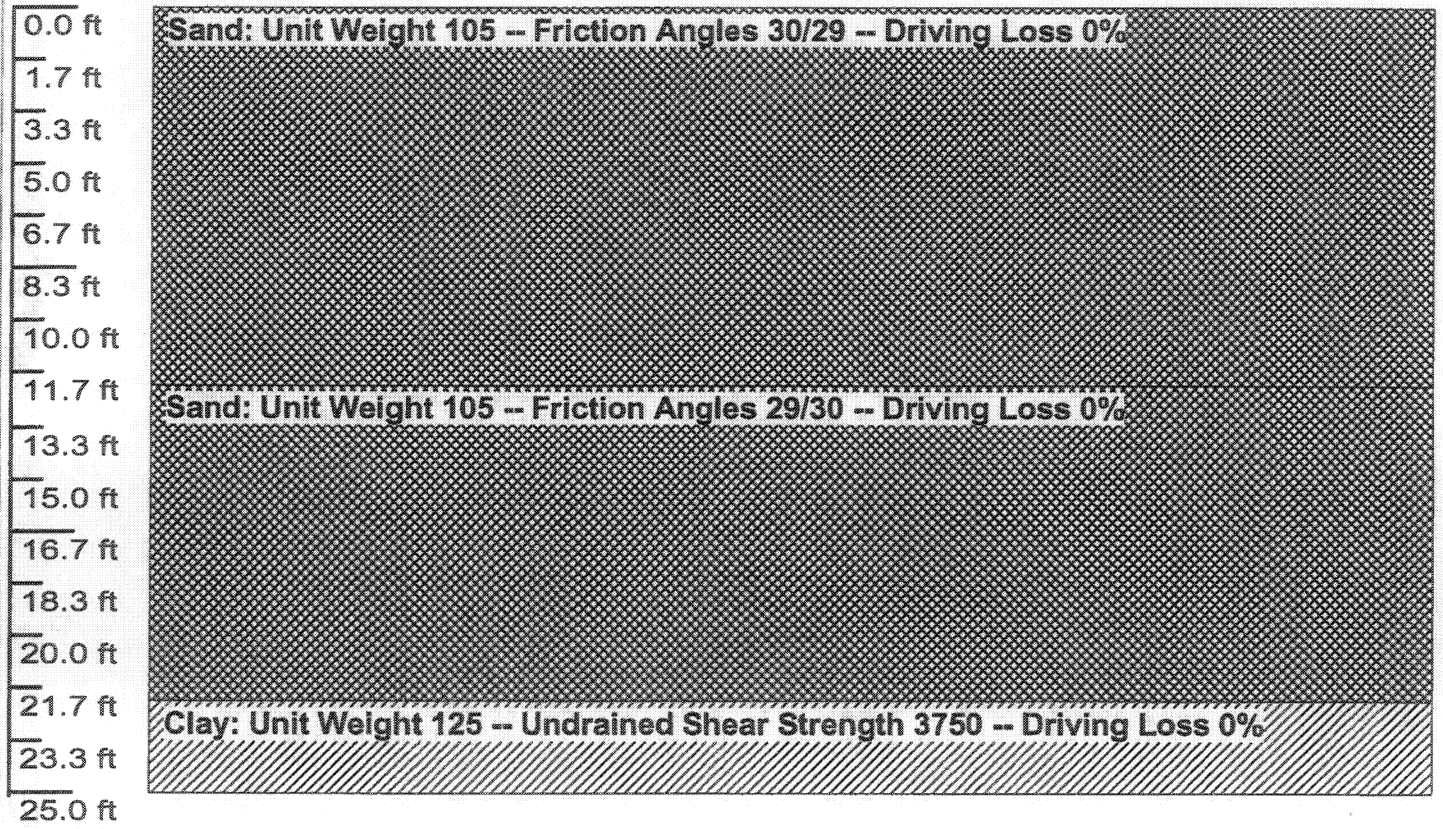
$$Q_U \times 3 = 12^k \text{ NEEDED}$$

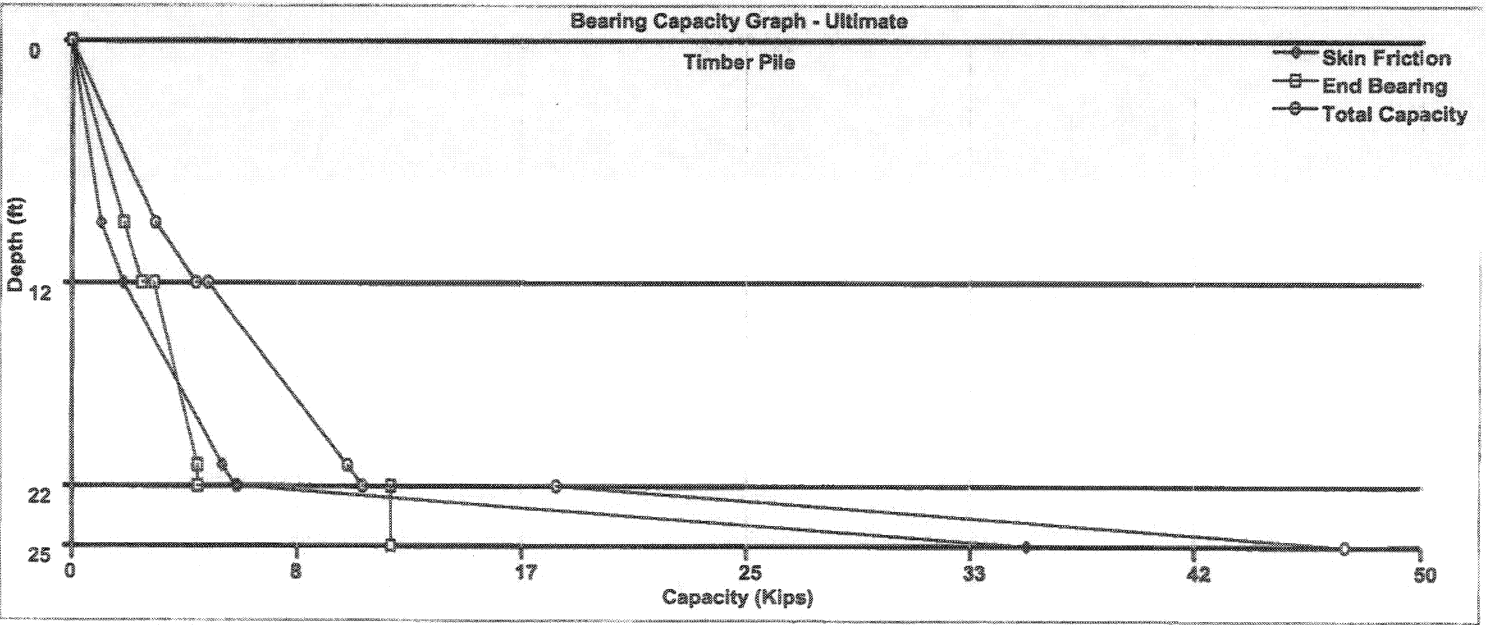
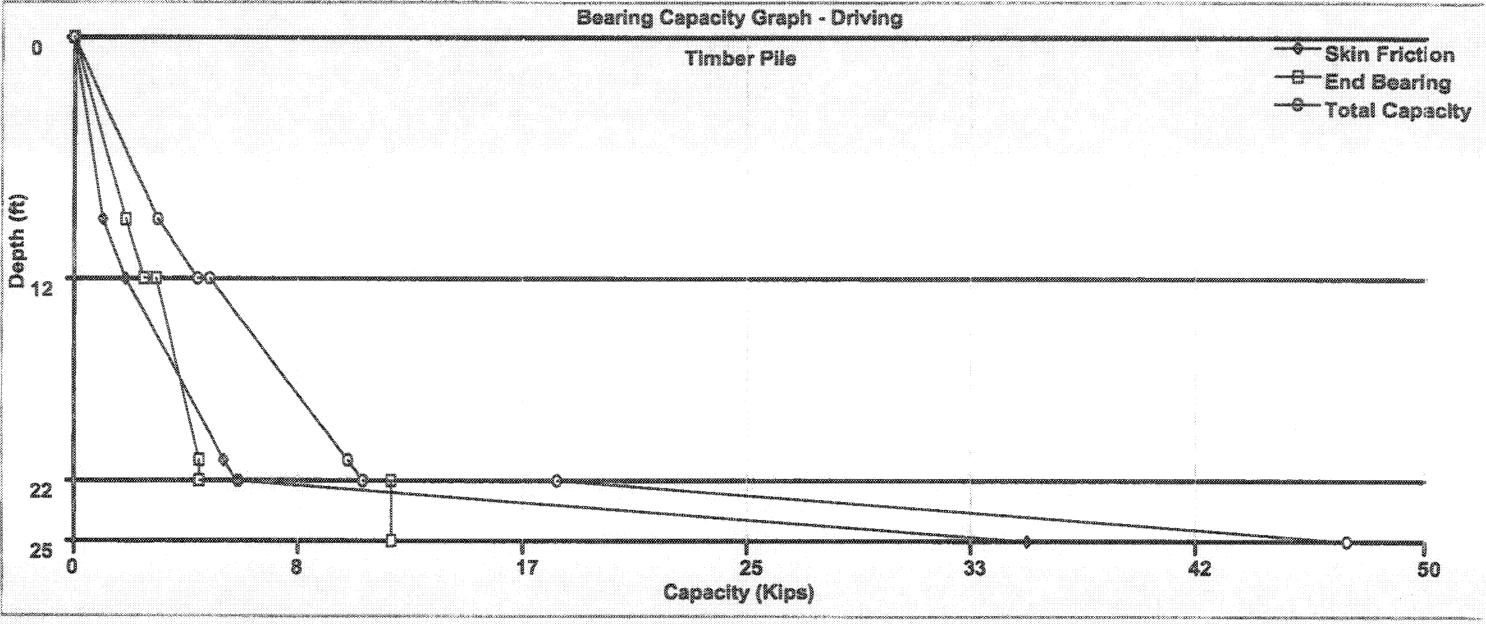
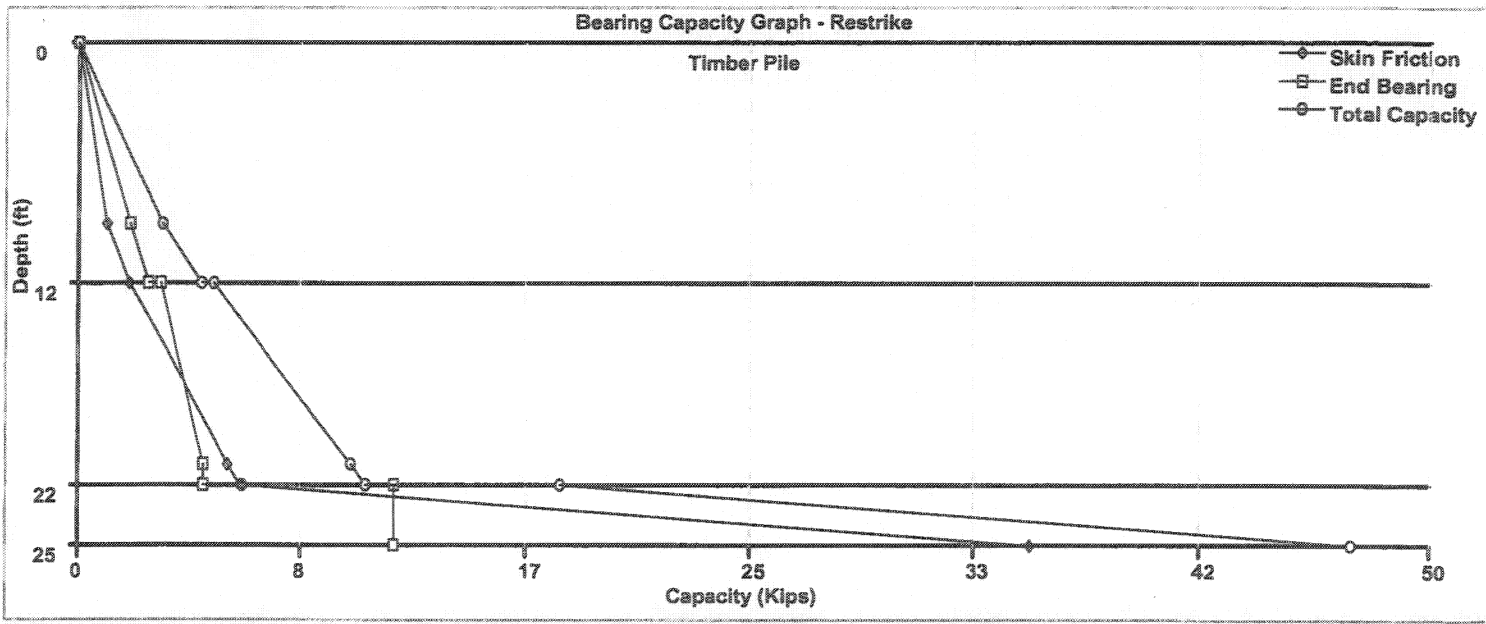
FS

COMPUTER PROGRAM

DRIVEN 1.2 (FHWA)

Soil Profile





DRIVEN 1.2

GENERAL PROJECT INFORMATION

Filename: C:\DRIVEN\BWALK.DVN

Project Name: Perico Bayou Boradwalk

Project Date: 03/04/2011

Project Client: Malcolm Pirnie/Arcadis

Computed By: KS

Project Manager: Kermit Schmidt

PILE INFORMATION

Pile Type: Timber Pile

Top of Pile: 0.00 ft

Diameter of Pile: 10.00 in

Diameter of Tip: 8.00 in

Length of Taper: 0.00 ft

ULTIMATE CONSIDERATIONS

Water Table Depth At Time Of:	- Drilling:	0.00 ft
	- Driving/Restrike	0.00 ft
	- Ultimate:	0.00 ft
Ultimate Considerations:	- Local Scour:	0.00 ft
	- Long Term Scour:	0.00 ft
	- Soft Soil:	0.00 ft

ULTIMATE PROFILE

Layer	Type	Thickness	Driving Loss	Unit Weight	Strength	Ultimate Curve
1	Cohesionless	12.00 ft	0.00%	105.00 pcf	30.5/29.0	Nordlund
2	Cohesionless	10.00 ft	0.00%	105.00 pcf	29.0/29.9	Nordlund
3	Cohesive	3.00 ft	0.00%	125.00 pcf	3750.00 psf	T-80 Sand

RESTRIKE - SKIN FRICTION

Depth	Soil Type	Effective Stress At Midpoint	Sliding Friction Angle	Adhesion	Skin Friction
0.01 ft	Cohesionless	0.21 psf	16.42	N/A	0.00 Kips
9.01 ft	Cohesionless	191.91 psf	16.42	N/A	1.11 Kips
11.99 ft	Cohesionless	255.39 psf	16.42	N/A	1.97 Kips
12.01 ft	Cohesionless	511.41 psf	15.62	N/A	1.97 Kips
21.01 ft	Cohesionless	703.11 psf	15.62	N/A	5.56 Kips
21.99 ft	Cohesionless	723.99 psf	15.62	N/A	6.07 Kips
22.01 ft	Cohesive	N/A	N/A	3750.00 psf	6.17 Kips
24.99 ft	Cohesive	N/A	N/A	3750.00 psf	35.43 Kips

RESTRIKE - END BEARING

Depth	Soil Type	Effective Stress At Tip	Bearing Cap. Factor	Limiting End Bearing	End Bearing
0.01 ft	Cohesionless	0.43 psf	26.40	4.65 Kips	0.00 Kips
9.01 ft	Cohesionless	383.83 psf	26.40	4.65 Kips	1.97 Kips
11.99 ft	Cohesionless	510.77 psf	26.40	4.65 Kips	2.63 Kips
12.01 ft	Cohesionless	511.63 psf	29.69	4.65 Kips	3.07 Kips
21.01 ft	Cohesionless	895.03 psf	29.69	4.65 Kips	4.65 Kips
21.99 ft	Cohesionless	936.77 psf	29.69	4.65 Kips	4.65 Kips
22.01 ft	Cohesive	N/A	N/A	N/A	11.78 Kips
24.99 ft	Cohesive	N/A	N/A	N/A	11.78 Kips

RESTRIKE - SUMMARY OF CAPACITIES

Depth	Skin Friction	End Bearing	Total Capacity
0.01 ft	0.00 Kips	0.00 Kips	0.00 Kips
9.01 ft	1.11 Kips	1.97 Kips	3.08 Kips
11.99 ft	1.97 Kips	2.63 Kips	4.59 Kips
12.01 ft	1.97 Kips	3.07 Kips	5.04 Kips
21.01 ft	5.56 Kips	4.65 Kips	10.21 Kips
21.99 ft	6.07 Kips	4.65 Kips	10.72 Kips
22.01 ft	6.17 Kips	11.78 Kips	17.95 Kips
24.99 ft	35.43 Kips	11.78 Kips	47.21 Kips

DRIVING - SKIN FRICTION

Depth	Soil Type	Effective Stress At Midpoint	Sliding Friction Angle	Adhesion	Skin Friction
0.01 ft	Cohesionless	0.21 psf	16.42	N/A	0.00 Kips
9.01 ft	Cohesionless	191.91 psf	16.42	N/A	1.11 Kips
11.99 ft	Cohesionless	255.39 psf	16.42	N/A	1.97 Kips
12.01 ft	Cohesionless	511.41 psf	15.62	N/A	1.97 Kips
21.01 ft	Cohesionless	703.11 psf	15.62	N/A	5.56 Kips
21.99 ft	Cohesionless	723.99 psf	15.62	N/A	6.07 Kips
22.01 ft	Cohesive	N/A	N/A	3750.00 psf	6.17 Kips
24.99 ft	Cohesive	N/A	N/A	3750.00 psf	35.43 Kips

DRIVING - END BEARING

Depth	Soil Type	Effective Stress At Tip	Bearing Cap. Factor	Limiting End Bearing	End Bearing
0.01 ft	Cohesionless	0.43 psf	26.40	4.65 Kips	0.00 Kips
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Depth	Skin Friction	End Bearing	Total Capacity
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11.99 ft	1.97 Kips	2.63 Kips	4.59 Kips
12.01 ft	1.97 Kips	3.07 Kips	5.04 Kips
21.01 ft	5.56 Kips	4.65 Kips	10.21 Kips
21.99 ft	6.07 Kips	4.65 Kips	10.72 Kips
22.01 ft	6.17 Kips	11.78 Kips	17.95 Kips
24.99 ft	35.43 Kips	11.78 Kips	47.21 Kips

ULTIMATE - SKIN FRICTION

Depth	Soil Type	Effective Stress At Midpoint	Sliding Friction Angle	Adhesion	Skin Friction
0.01 ft	Cohesionless	0.21 psf	16.42	N/A	0.00 Kips
9.01 ft	Cohesionless	191.91 psf	16.42	N/A	1.11 Kips
11.99 ft	Cohesionless	255.39 psf	16.42	N/A	1.97 Kips
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ULTIMATE - END BEARING

Depth	Soil Type	Effective Stress At Tip	Bearing Cap. Factor	Limiting End Bearing	End Bearing
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22.01 ft	Cohesive	N/A	N/A	N/A	11.78 Kips
24.99 ft	Cohesive	N/A	N/A	N/A	11.78 Kips

Single Pile Settlement per Navy Design Manual 7.02 or EM 1110-2-2902			
Perico Bayou Boardwalk			
Data:			
Pile Diameter or Width (inches) (B)	10		
Area of Square Pile (square inches)	100		
Area of Circular Pile (square inches)	78.5		
Modulus of Elasticity (concrete) lb/sq. inch	1500000		
Tip Resistance (Qp) (pounds)	4640	2.32	tons
Shaft Resistance (Qs) (in force units)	6000	3	tons
Pile length (inches) (L)	288	24	ft
Pile embedment (inches) (D)	264	22	
Cp= (from Table 5)	0.02		
alpha=	0.5		
tip ultimate bearing capacity (qo) lb/sq. in	92		
Pile Settlement = settlement due to axial deformation of the pile (Ws) + Settlement of pile point caused by load transfer at the point (Wpp) + Settlement of the pile point caused by load transmitted along the pile shaft (Wps)			
$W_o = W_s + W_{pp} + W_{ps}$			
Ws= (inches)	$(Q_p + \alpha \times Q_s) \times L / AE_p$		0.018686
Qp=	tip resistance of the pile for the design load for which the settlement is being calculated		
Qs=	shaft resistance of the pile for the design load for which the settlement is being calculated		
alpha	= 0.5 for parabolic or uniform distribution of shaft friction		
	= 0.67 for triangular distribution of shaft friction starting from zero friction at pile head to a maximum value at pile point		
	= 0.33 for triangular distribution of shaft friction starting from a maximum at the head to zero at the pile point		
L=	pile length (inches)		
A=	pile cross sectional area (square inches)		
Ep=	modulus of elasticity of the pile (lb/sq.in)		
Wpp= (inches)	$(C_p \times Q_p) / B_{qo}$		0.10087
Cp=	empirical coefficient depending on soil type and method of construction (See Table)		
B=	Pile Diameter or width (inches)		
qo=	unit ultimate tip bearing capacity		

LOTING WAD ANALYSIS

TIMBER PILE
 10' 8"

(1)

SAND Δ ASSUMED
 $\phi = 30^\circ$
 $\gamma = 110 \text{ pcf}$
 $\gamma' = 47 \text{ Gpcf}$

$K_H = 35$

22

CLAY (CL)

$C = 3250 \text{ PSF}$

$\gamma = 135.0 \text{ pcf}$

$\gamma' = 72.6 \text{ pcf}$

$q_u = \text{USE } 4000 \text{ PSF}$

$n_1 = 0.36$

$n_2 = 1.30$

$K_H = \frac{(0.36 \times 1.30) 11670 \times 4000}{0.833}$

0.833

$K_H = 3,752,990$

STEP 3

$K_H = 0.16 \times K_H =$
 STATIC LOADINGS
 CLAY

$609,78$

STEM 4

$E = 1,500,000 \text{ PSI}$

$I = \frac{\pi D^4}{64} = 490 \text{ in}^4$

$S = \frac{I}{y} = \frac{490}{10\frac{1}{2}} = 98 \text{ in}^3$

$f_b = 2612 \text{ PSI}$

$D = 10\frac{1}{8}"$

$e_c = 24 \text{ inches}$

$M_y = S \times f_b$ RESISTING MOMENT
 $= 98 \times 2612 = 255,976$

STEP 9 ULTIMATE LAT. LOAD FOR SINGLE PILE **Q_u**

⑥ **START FREE OR FIXED HEADED PILE**
 IN COHESIONLESS SOIL USING $\frac{D}{B} = \frac{22(12)}{10} = 26.4$

$$\frac{C_c}{D} = \frac{24}{22(12)} = 0.0911$$

FIGURE 7-3

Free Head = $\frac{Q_u}{Kpb^3 Y'} = 180$

$$Q_u = 180(3.0) \left(\frac{10}{12}\right)^3 = 47.6$$

$$= 14,875 \text{ pounds}$$

Fixed Head = $\frac{Q_u}{Kpb^3 Y'} = ?$

STEP 10

WORKING
 LOAD
 ON A SINGLE
 PILE

Free Head = Max All Working Load = $\frac{Q_u}{2.5} = 5950$

Latent



GEOTECHNICAL • ENVIRONMENTAL
MATERIALS TESTING

STEP 11

$$h/D = 0.68$$

$$e_c/D = 0.091$$

Calculate the working load for a single pile

$$\text{Fixed } = \frac{y (EI)^{3/5} K_H^{2/5}}{\text{RAD}} = 0.5$$

$$y = \frac{1.0 \times Q_{AD}}{(EI)^{3/5} K_H^{2/5}} = 1.0$$

$$y = \frac{0.5 \times Q_{AD}}{(EI)^{3/5} K_H^{2/5}} = 0.5$$

Use $Q_{AD} = 0.50$ tons (from client)
(1000 lbs)

$$\text{Fixed } y = \frac{0.5 (1000) (22)^{1.2}}{(1,500,000 \times 490)^{3/5} (35)^{2/5}}$$

$$y = \frac{132,000}{(208,920) \times 4.15} = 0.15 \text{ inches}$$

E_w
 w_{nd}

$$\frac{y (EI)^{3/5} K_H^{2/5}}{Q_x} = 0.7$$

$$y = \frac{0.7 (Q_x)}{(EI)^{3/5} K_H^{2/5}}$$

for $Q_x = 1000 \text{ lb}$

$$y = \frac{0.7 (1000) (22 \times 12)}{(208,020) (4.15)} = 0.75$$

Permittee

To be completed by DOT

Drainage Connection Permit No. 2010-D-194-10 Date 8-31-2010
 Received By Valerie Everts Maintenance Unit 194
 State Road No. 64 Work Program Project No. _____
 Section No. 13150 Construction Project No. 429130-1
 Milepost 2.430 - 2.570 Station 2.513 4.088

Instructions for Drainage Connection Permit

Pursuant to 14-86.004(6), F.A.C. "The Drainage Connection Permit form serves as the application. Once approved by the Department, the form and supporting documents become the Drainage Connection Permit."

The applicant shall submit four completed permit packages with original signatures. Each package shall include all required attachments. All required signed and sealed plans and supporting documentation shall be submitted on no larger than (11" X 17") multipurpose paper, unless larger plan sheets are requested by the reviewer. The package will include the following items. If an item does not apply to your project, indicate "Not Applicable" or "N/A."

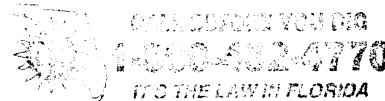
Included	Part	Title	Completed by:	Special Instructions
✓	1	Permit Information Sheet	Applicant	
✓	2	Certification by a Licensed Professional	Licensed Professional	Signed and Sealed
✓	3	Certification	Applicant	Signature
N/A	4	Owner's Authorization of a Representative	Owner	Signature
✓	5	Affidavit of Ownership or Control and Statement of Contiguous Interest	Owner	Signature
✓	6	Permit General Conditions	FDOT	
✓	7	Permit Special Conditions	FDOT	
✓	8	As-Built Certification	Licensed Professional	Signed and Sealed – Submit within 15 working days of completion of construction
✓	Attachment	Legal Description		
✓	Attachment	Photographs of Existing Conditions		
✓	Attachment	Location Map		
✓	Attachment	Grading Plan		
N/A	Attachment	Soil Borings	Licensed Professional	Signed and Sealed
N/A	Attachment	Water Table / Percolation		
✓	Attachment	Calculations		
✓	Attachment	CD with Electronic Files of all Submittal Items		Scanned Images in pdf format

Note: Different Licensed Professionals may complete parts of the permit package. For example the Licensed Professional signing and sealing the as-built certification may be different from the Licensed Professional who signed and sealed the calculations for the permit package.

EXCEPTIONS: Activities that qualify for an Exception are listed in Rule 14-86, F.A.C. A permit application to the Department is NOT required. However, if you desire verification whether the work qualifies for an exception, send a completed copy of this permit package with its requested information to the applicable FDOT District Office.

PERMIT VOID UNLESS DOT OPERATIONS CENTER IS NOTIFIED 48 HRS IN ADVANCE OF STARTING WORK
 PHONE 941-359-7300
 VERIFICATION NO. _____

ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH PERMITTED NOT PLAN.



Soil 22 Portions of Disturbed High-Way.

Brief description of facility and proposed connection: The proposed off-street parking area on the south side of S.R. 64 will discharge into an on-line dry retention pond. Treated runoff will discharge into an existing wetland (Palma Sola Bay) via an 14"x 23" RCP.

Briefly describe why this activity requires a Drainage Connection Permit (Include where the stormwater will discharge to FDOT right of way):

A portion of the proposed on-line dry retention pond is located in the FDOT Row.

PART 2 – Certification by a Licensed Professional

In accordance with Rule 14-86, Florida Administrative Code (F.A.C.), I hereby certify that the following requirements are and/or will be met.

This project has been designed in compliance with all applicable water quality design standards as required by state governmental agencies.

14-86.004(3)(f) (F.A.C.): Certification by a Licensed Professional that the complete set of plans and computations complies with one of the following Rules Sections:

14-86.003(2)(a) (F.A.C.), or 14-86.003(2)(b) (F.A.C). (check one)

I further certify that a National Pollutant Discharge Elimination System (NPDES) permit for stormwater discharges associated with industrial activity from construction sites

is required is not required. (check one)

I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

This certification shall remain valid for any subsequent revision or submittal of plans, computation or other project documents by me.

Name of Licensed Professional: Sia Mollanazar, P.E.

Florida License Number: 42903

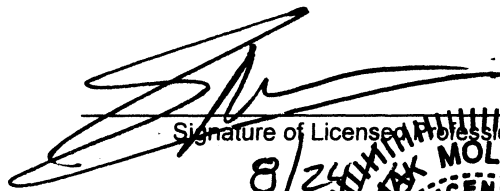
Company Name (if applicable): Manatee County Publics Works

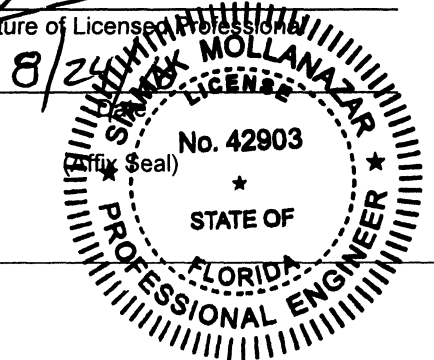
Certificate of Authorization Number (if applicable): _____

Address: 1022 26th Avenue East

City: Bradenton State: FL Zip: 34208

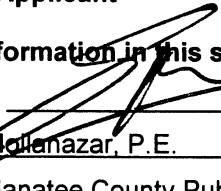
Telephone: (941) 708-7487 Fax: 708-7470 Email: sia.mollanazar@mymanatee.org


Signature of Licensed Professional



PART 3 – Certification by Applicant

I hereby certify that the information in this submittal is complete and accurate to the best of my knowledge.

Applicant's Signature:  Date: 8/24/10

Name (Printed): Sia Mollanazar, P.E.

Title and Company: Manatee County Public Works

Address: 1022 26th Avenue East

Phone Number: (941) 708-7487 E-mail address: sia.mollanazar@mymanatee.org

PART 4 – Owner's Authorization of a Representative

I (we), the owner, _____, do hereby authorize the following person, or entity, as my representative:

Name (Printed): _____

Title and Company: _____

Address: _____

Phone Number: _____ E-mail address: _____

Part 5 – Affidavit of Property Ownership or Control and Statement of Contiguous Interest

I, Sia Mollanazar, certify that I own or lawfully control the following described property: Perico Bayou Parking Area

Does the property owner own or have any interests in any adjacent property?

No Yes If yes, please describe. _____

Owner's Signature required for Parts 4 and/or 5

We will not begin on the drainage connection until I receive the Permit and I understand all the conditions of the Permit. When work begins on the connection, I am accepting all conditions listed in the Permit.

Name (Printed): Sia Mollanazar

Address: 1022 26th Avenue East

Phone Number: (941) 708-7487

Signature:  Date: 8/24/10

PART 6-Permit General Conditions

1. This permit is a license for permissive use only and does not convey and property rights either in real estate or material, or any exclusive privilege and it does not authorize any injury to private property or invasion of private rights, or any infringement of Federal, State or local laws, rules of regulations; nor does obviate the necessity of obtaining any required state or local approvals.
2. The drainage connection as authorized herein shall be constructed and thereafter maintained in accordance with the documents attached hereto and incorporated by reference herein. All work performed in the Department's right of way shall be done in accordance with the most current Department's standards, specifications and the permit provisions. Such construction shall be subject to the inspection and approval of the Department, and the Department may at any time make such inspections as it deems necessary to assure that the drainage connection is in compliance with this permit.
3. The entire expense of construction within the Department right of way, including replacement of existing pavement or other existing features, shall be borne by the permittee.
4. The permittee shall maintain that portion of the drainage connection authorized herein located on permittee's property in good condition. The Department shall maintain that portion of the drainage connection authorized herein located within its right of way.
5. If the drainage connection is not constructed, operated or maintained in accordance with this permit, the permit may be suspended or revoked. In this event modification or removal of any portion of the drainage connection from the Department's right of way shall be at the permittee's expense.
6. The Department reserves the right to modify or remove the drainage connection to prevent damage or in conjunction with road improvements.
7. It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the Department's right, title, and interest in the land to be entered upon and used by the permittee, and the permittee will, at all times, assume all risk of and indemnify, defend and save harmless the Department from and against all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by said permittee of these rights and privileges, regardless of the respective degrees of fault of the parties.
8. Utilities, including gas lines, may exist within the right of way. Prior to beginning work the permittee shall contact Sunshine State One Call of Florida, Inc. at 811 or 800-432-4770, who will notify all utility owners near the scheduled project. The utility owners have two (2) full business days to provide locations of their respective facilities. The permittee shall be solely responsible for any damage to or conflicts with gas lines, utilities and/or third persons.
9. The permittee shall notify the Department of Transportation Maintenance Office located at **Sarasota Operations Center 1840 61st Street, Sarasota, Florida 34243** Telephone **941-359-7300** 48 hours in advance of starting any work on the drainage connection authorized by this permit and also 24 hours prior to any work within the Department's right of way. Construction of any work on the right of way shall be completed within **365** days after such notification. If such construction is not completed within **365** days after such notification, the permittee shall notify the Department of the anticipated completion date.
10. This permit shall expire if construction on the drainage connection is not begun within one year of the date of approval and if construction on the drainage connection is not completed by (DATE) 10-24-2013.
11. A permittee may request an extension of the Drainage Connection Permit expiration date by filing a written request for a permit time extension. All requests for time extensions must be received by the Department 15 working days prior to the expiration date.
12. All the provisions of this permit shall be binding on any assignee or successor in interest of the permittee.

PART 7 – Permit Special Conditions – To be completed by FDOT

The above request has been reviewed and has been found to meet the regulations as prescribed in Rule 14-86, F.A.C., and is hereby approved, subject to the following special conditions:

Department of Transportation:

Signature Albert Rosenstein

Title Engineering Manager

Date 10.24.12

PART 8 – As-Built Certification

Within 15 working days of completion of construction, you must send this certification to the Department office in which you filed your DOT Drainage Permit.

1. STORM WATER FACILITY INFORMATION

Permit No.: _____

Source (Project) Name: _____

Source Location: Street _____

City: _____ County: _____

Source Owner: _____

Owner Address: _____

2. AS-BUILT CERTIFICATION

I hereby certify that this storm water facility has been built substantially in accordance with the certified design plans, and that any substantial deviations (noted below) will not prevent the facility from functioning in compliance with the requirements of Chapter 14-86 F.A.C. when properly maintained and operated. These determinations have been based upon on-site observation of construction, scheduled and conducted by me or by a project representative under my direct supervision.

Name of Licensed Professional: _____

Florida License Number: _____

Company Name (if applicable): _____

Certificate of Authorization Number (if applicable): _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____ Fax: _____ Email: _____

Signature of Licensed Professional

Date

(Affix Seal)

Substantial deviations from the approved plans and specifications (attach additional sheets if required).

FLORIDA DEPARTMENT OF TRANSPORTATION
Stormwater Pollution Control Reminder

• *Stormwater Management*

Contact your local municipality and/or the Southwest Florida Management District.

Bartow (863) 534-1448
Venice (Sarasota) (941) 278-7396
Fort Myers (Sarasota) (941) 278-7396

- Fort Myers is also part of South Florida Water Management District (800) 432-2045.

• *Used Oil recycling*

Contact the Florida Department of Environmental Protection at (813) 744-6100 or your local automotive parts store.

• *Hazardous Waste Disposal*

Contact the Florida Department of Environmental Protection at (813) 744-6100.

• *Spill Reporting*

State Warning Point (800) 320-0519
Federal Response Center (800) 424-8802

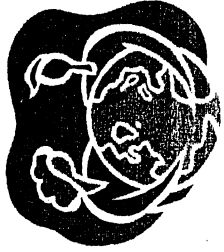
• *Pesticides & Fertilizers*

Contact your Local County Agricultural Extension Service.

Charlotte (941) 764-4340
Collier (239) 353-4244
Desoto (863) 993-4846
Glades (863) 946-0244
Hardee (863) 773-2164
Hendry (863) 674-4094
Highlands (863) 402-6540
Lee (239) 461-7500
Manatee (941) 722-4524
Okeechobee (863) 763-6469
Polk (863) 519-8677
Sarasota (941) 316-1000

LET'S WORK TOGETHER TO KEEP OUR ENVIRONMENT CLEAN...

AND INVEST IN FLORIDA'S FUTURE



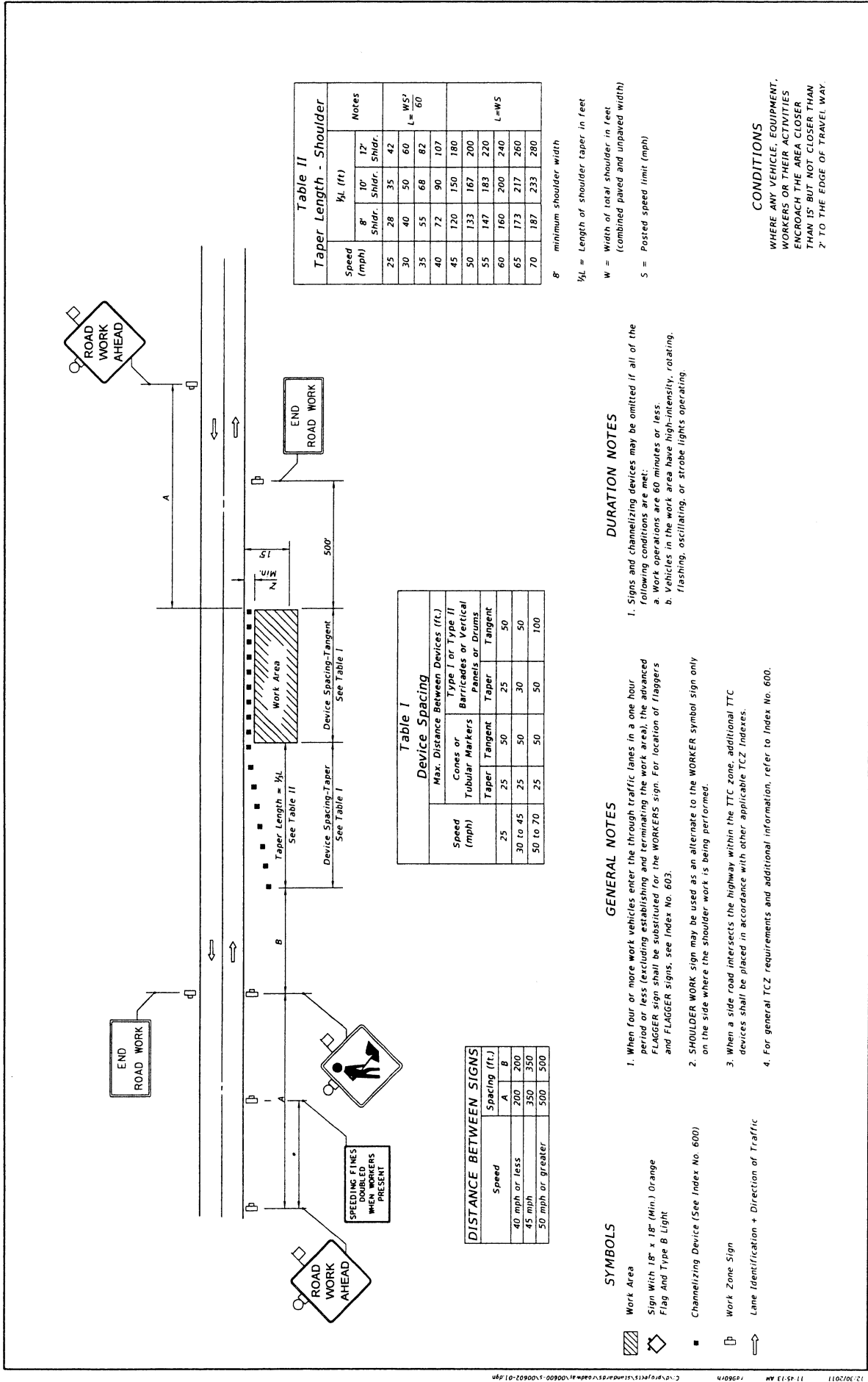


Table II
Taper Length - Shoulder

Speed (mph)	1/2 L (ft.)		Notes
	8' Shldr.	12' Shldr.	
25	28	42	WS' L=60
30	40	60	
35	55	82	WS' L=60
40	72	107	
45	120	180	L=WS
50	133	200	
55	147	220	L=WS
60	160	240	
65	173	260	L=WS
70	187	280	

8' minimum shoulder width
1/2 L = Length of shoulder taper in feet

W = Width of total shoulder in feet (combined paved and unpaved width)

S = Posted speed limit (mph)

DURATION NOTES

- Signs and channelizing devices may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRoACH THE AREA CLoSER THAN 15' BUT NOT CLoSER THAN 7' TO THE EDGE OF TRAVEL WAY

Table I
Device Spacing

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers	Type I or Type II Barricades or Vertical Panels or Drums	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

GENERAL NOTES

- When four or more work vehicles enter the through traffic lanes in a one hour period or less (excluding establishing and terminating the work area), the advanced FLAGGER sign shall be substituted for the WORKERS sign. For location of flaggers and FLAGGER signs, see Index No. 603.
- SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign only on the side where the shoulder work is being performed.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- For general TCZ requirements and additional information, refer to Index No. 600.

SYMBOLS

- Work Area
- Sign With 18' x 18' (Min.) Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

LAST REVISION 07/01/07

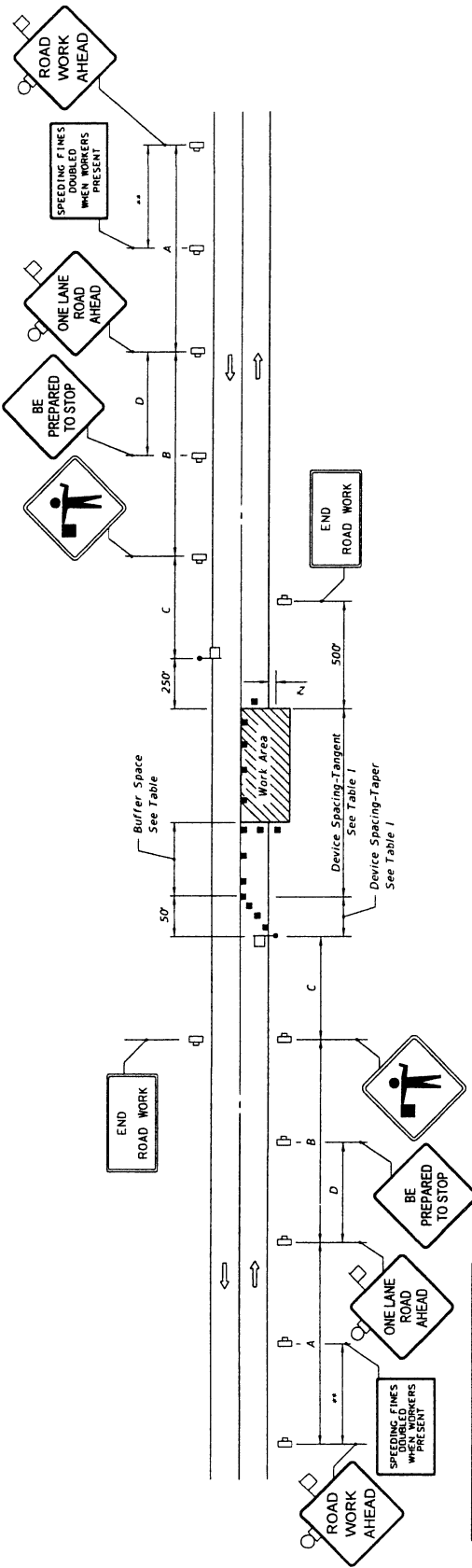
FDOT DESIGN STANDARDS
FY 2012/2013



TWO-LANE, TWO-WAY, WORK ON SHOULDER

INDEX NO. 602

SHEET NO. 1



DISTANCE BETWEEN SIGNS

Speed (mph)	Spacing (ft.)			
	A	B	C	D
40 or less	200	200	200	100
45	350	350	350	175
50	500	500	500	250
55 or greater	1260	1640	1000	300

TABLE 1 DEVICE SPACING

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers	Type I or Type II Panels or Drums	Taper	Tangent
25 to 45	20	50	20	50
50 to 70	20	50	20	100

BUFFER SPACE

Speed (mph)	Dist. (ft.)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

- * The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign.
- ** 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.
- *** BE PREPARED TO STOP sign may be omitted for speeds of 45 MPH or less.

GENERAL NOTES

1. Work operations shall be confined to one traffic lane, leaving the opposite lane open to traffic.
2. Additional one-way control may be effected by the following means:
 1. Flag-carrying vehicle;
 2. Official vehicles;
 3. Pilot vehicles;
 4. Traffic signals.

When flaggers are the sole means of one-way control, the flaggers shall be in sight of each other or in direct communication at all times.

3. The ONE-LANE ROAD signs are to be fully covered and the FLAGGER signs either removed or fully covered when no work is being performed and the highway is open to two-way traffic.
4. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ indexes.
5. The two channelizing devices directly in front of the work area and the one channelizing device directly at the end of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
6. For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

1. ROAD WORK AHEAD and the BE PREPARED TO STOP signs may be omitted if all of the following conditions are met:
 - a. Work operations are 60 minutes or less;
 - b. Speed limit is 45 mph or less;
 - c. No sign obstructions to vehicles approaching the work area for a distance equal to the buffer space.
 - d. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
 - e. Volume and complexity of the roadway has been considered.

When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

SYMBOLS

- Work Area
- Sign With 18" x 18" (Min.) Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Flagger
- Automated Flagger Assistance Devices (AFAD), With Gate
- Lane Identification + Direction of Traffic

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRoACH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.

LAST REVISION 07/01/09

DESCRIPTION:

FDOT DESIGN STANDARDS
FY 2012/2013

TWO-LANE, TWO-WAY,
WORK WITHIN THE TRAVEL WAY

INDEX NO. 603
SHEET NO. 1

PERMIT VOID UNLESS DOT SARASOTA OPERATIONS OFFICE NOTIFIED 48 HOURS IN ADVANCE OF STARTING WORK.
PHONE: (941) 359-7300

IF A LANE CLOSURE IS WITHIN THE PROJECT LIMITS, THE PERMITTEE MUST NOTIFY THE DEPARTMENT 14 DAYS PRIOR TO A LANE CLOSURE TO ALLOW THE DEPARTMENT TO INFORM THE MOTORING PUBLIC. FAILURE TO CALL MAY RESULT IN A DELAY TO BEGIN WORK.

IF NO CLOSURES ARE REQUIRED THE SARASOTA OPERATIONS OFFICE MUST BE NOTIFIED 48 HOURS IN ADVANCE OF STARTING WORK. FAILURE TO CALL MAY RESULT IN A DELAY TO BEGIN WORK.

LANE CLOSURES AND OTHER WORK MAY BE RESTRICTED BY THE FDOT DUE TO HEAVY TRAFFIC AND POTENTIAL BACKUPS CAUSED BY THIS CONSTRUCTION. NIGHT WORK MAY BE REQUIRED.

DISTRICT ONE LANE CLOSURE POLICY MAY REQUIRE WORK TO BE PERFORMED DURING NIGHT TIME HOURS DUE TO LANE ANALYSIS AND/OR LANE RESTRICTIONS.

APPLICANT IS RESPONSIBLE FOR NOTIFYING OWNERS OF ALL EXISTING AERIAL AND BURIED UTILITIES OF PROPOSED DRIVEWAY AND RESOLVING ANY CONFLICTS BEFORE CONSTRUCTION BEGINS.

IN ACCORDANCE WITH FLORIDA STATUS 335.18 PERMITTEE SHALL BE REQUIRED TO BEAR THE COST OF FUTURE ACCESS MODIFICATIONS, TRAFFIC CONTROL DEVICES OR OTHER IMPROVEMENTS, WHEN DETERMINED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION TO BE IN CONJUNCTION WITH ACCEPTED ENGINEERING PRACTICES.

ALL CONSTRUCTION AND/OR MAINTENANCE ON THE DEPARTMENT'S RIGHT-OF-WAY SHALL CONFORM TO THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) THE DEPARTMENT'S ROADWAY AND TRAFFIC DESIGN STANDARDS AND BRIDGE CONSTRUCTION.

PERMITTEE/CONTRACTOR MUST WAIT 30 DAYS TO ALLOW ASPHALT FRICTION COURSE TO CURE BEFORE PLACING THERMOPLASTIC STRIPING.

OUR REVIEW COMMENTS ARE NOT INCLUDED TO BE INCLUSIVE OF ALL ERRORS AND OMISSIONS. OUR COMMENTS ARE ALSO NOT INTENDED TO AFFECT THE SCOPE OF WORK OR TO BE CONTRARY TO FHWA POLICY, FDOT DESIGN CRITERIA OR SOUND ENGINEERING PRACTICE. THE CONSULTANT/ENGINEER IS SOLELY RESPONSIBLE FOR THE TECHNICAL ACCURACY, ENGINEERING JUDGEMENT, AND QUALITY OF HIS WORK.

ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH PERMITTED M.O.T. PLAN.

SOD ALL PORTIONS OF DISTURBED RIGHT-OF-WAY.

NOTE: ALL ABOVE GROUND APPURTENANCES TO BE LOCATED AT RIGHT-OF-WAY LINE.

DENSITY REPORTS ARE TO BE SUBMITTED PRIOR TO PLACEMENT OF PAVEMENT.

"PRIOR TO EXCAVATING CONTACT THE CLERK OF THE CIRCUIT COURT FOR POSSIBLE GASOLINE CONFLICT."

THE APPLICANT SHALL NOT, DURING AND AFTER COMPLETION OF PERMITTED CONSTRUCTION, INTRODUCE ANY FORM OR METHOD OF SITE DRAINAGE DISCHARGE INTO THE DRAINAGE FACILITIES ON THE DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY OR EASEMENT. ANY DISCHARGE SHALL BE IN VIOLATION OF THIS PERMIT.

"PERMITTEE IS CAUTIONED THAT UTILITIES MAY BE LOCATED WITHIN THE CONSTRUCTION AREA."

IT IS THE RESPONSIBILITY OF THE PERMITTEE TO DETERMINE AND COMPLY WITH ALL COUNTY AND MUNICIPAL ORDINANCES THAT ARE RELATIVE TO THE CONSTRUCTION OR OTHER ACTIVITY DESCRIBED ON THIS PERMIT AND ARE MORE STRINGENT THAN DEPARTMENT OF TRANSPORTATION REQUIREMENTS.

N.P.D.E.S. REQUIRES THAT STORM WATER CONTROL MEASURES BE IMPLEMENTED ON ANY PROJECT ON PUBLIC TRANSPORTATION FACILITY RIGHTS-OF-WAY INCLUDING, BUT NOT LIMITED TO MEASURES DESCRIBED IN F.D.O.T. STANDARD DESIGN INDEX DRAWING NUMBERS 102, 103 AND 104.

"IF CONSTRUCTION, RECONSTRUCTION, REPAIR OR MAINTENANCE ACTIVITY NECESSITATES THE CLOSING OF ONE OR MORE TRAVEL LANES OF ANY ROAD ON THE STATE PRIMARY, COUNTY ROAD OR CITY STREET SYSTEM, FOR A PERIOD OF TIME EXCEEDING TWO HOURS, THE PARTY PERFORMING SUCH WORK WILL BE RESPONSIBLE TO GIVE NOTICE TO THE APPROPRIATE LOCAL LAW ENFORCEMENT AGENCY WHICH HAS JURISDICTION WHERE SUCH ROAD IS LOCATED PRIOR TO COMMENCING WORK ON THIS PROJECT"
335.15 F.S.91, 336.048 F.S.91



13150

Giddens, Harris

From: O'Regan, Leanna
Sent: Wednesday, May 04, 2011 8:01 AM
To: Myers, Theresa; Brian Cale; rdconsultllc@yahoo.com; myates@lincks.com; bgelston@gelstonmgmt.com
Cc: Lazenby, Ryan; Giddens, Harris; Amig, Gary P; Conway, Don; bob.agrusa@mymanatee.org; susan.barfield@mymanatee.org
Subject: Drainage Dept Information RE: Section 13150; SR 64 @ MP 1.500+/-, Perico Island Development

Based on the information provided at the meeting on April 12, 2011, the drainage department does not have any comments at this time.

Please contact me should you have any questions or concerns.

Thank you.

Leanna O'Regan

(863) 519-2586 (Bartow Office)
(813) 362-3569 (Cell)
Leanna.O'Regan@dot.state.fl.us

From: Myers, Theresa
Sent: Tuesday, May 03, 2011 1:16 PM
To: Brian Cale; rdconsultllc@yahoo.com; myates@lincks.com; bgelston@gelstonmgmt.com
Cc: Lazenby, Ryan; Giddens, Harris; Amig, Gary P; Conway, Don; bob.agrusa@mymanatee.org; susan.barfield@mymanatee.org; O'Regan, Leanna
Subject: Section 13150; SR 64 @ MP 1.500+/-, Perico Island Development

An onsite meeting was held on April 12, 2011 for the Perico Island Development in Manatee County. The stipulations agreed to during the meeting were based upon conceptual information provided to the department at the time of the meeting and are subject to change pending any changes to the development plans for the property or changes to the existing state roadway system that could impact the development of said property.

- This portion of state road 64 has an Access Management Classification of 6 with a posted speed of 45mph. The established spacing standard is 245 feet between existing connections and 1,320 feet signal spacing.
- This meeting was held onsite at the request of the Perico Island Development staff to discuss a permanent access plan for the Perico Island Development.
- Two temporary driveways were permitted in 2010, one in November and one in December. At that time, the Department was unable to confirm whether the driveway on the western portion of the property existed within limited access right-of-way. Therefore, the Department considered the request for a temporary driveway.
- The westerly driveway is now being used for access to a temporary sales office. The applicant proposes to construct a marina and commercial center at this location in the future.

- The easterly main entrance connection was previously permitted. At that time, everything to the west of the permitted driveway was under a different ownership. Total build-out will include up to 686 condo units. The previous permit was for the same number of units.
- Bobby Downie, advised FDOT staff that District One Right-of-Way stated they were not claiming the limited access right-of-way on the westerly driveway connection. FDOT staff requested documents stating FDOT District One Right-of-Way did not claim the limited access right-of-way.
- The temporary permit is about to expire and to avoid having to continue renewing the temporary construction connection, Perico Island Development staff requested a standard permit application for the temporary construction entrance. Bobby Downie suggested permitting the temporary construction entrance with the permanent connection and add stipulations/conditions for removal of the construction entrance at total build-out.
- Ed Giddens, FDOT, advised the permits would need to be separate because a temporary driveway is difficult to remove when permitted together with a standard driveway connection permit.
- Gary Amig, FDOT, inquired about the number of trips at the construction entrance. Perico Island Development staff advised they will come up with projected traffic for the construction entrance.
- Ed Giddens asked Perico Island Development staff if they were planning on keeping the same geometrics of the westerly driveway. Perico Island Development staff advised it can be changed if needed.
- Gary Amig stated a condition of the FDOT permit will be that no additional access to State Road 64 will be allowed for any future development within the total contiguous area owned by the Perico Island developers.
- Perico Island Development staff advised the city approval states no further access will be allowed for future development. Ryan Lazenby, FDOT, requested Perico Island Development staff to send FDOT a copy of the city approval and associated stipulations.
- FDOT staff questioned ownership of a parking area depicted on a plan west of the proposed westerly driveway connection. FDOT staff advised Perico Island Development staff to provide a copy of the boundary survey for the overall contiguous property owned by the Perico Island developer.
- Perico Island Development staff advised an easement currently exists for Pat Neil's property which lies behind the construction entrance. When development is complete, the easement will be from the main entrance onto Pat Neil's property. FDOT staff advised Perico Island Development staff to provide a copy of the access agreement/settlement agreement with Pat Neil.
- At the end of the meeting, all parties agreed the following items would be submitted to FDOT before a final determination regarding access could be determined:
 1. A copy of the city approval.
 → *A copy of the City PDP Approval only for the marina was sent to Theresa Myers via e-mail from Steve Henry, April 26, 2011.*
 FDOT still needs a copy of the PDP for the residential portion of the development.
 2. A copy of the access agreement/settlement agreement with Pat Neil.
 3. Documents stating FDOT District One Right-of-Way did not claim the limited access right-of-way.

4. A copy of the boundary survey of the total site.

→ A copy of the boundary survey was sent to Theresa Myers via e-mail from Steve Henry, April 26, 2011.

- Please note, per Florida Administrative Code 14-96.007(5)c, development approval for the appropriate local governmental entity will be required prior to issuance of a new driveway connection permit for the proposed marina and commercial use.
- Per F.A.C. 14-96.003(4): "Traffic control features and devices in the right of way such as traffic signals, channelizing islands, medians, median openings, and turn lanes are operational and safety characteristics of the State Highway System and are not means of access. The Department may install, remove, or modify any present or future traffic control feature or device in the right of way to promote traffic safety in the right of way or promote efficient traffic operations on the highway. A connection permit is only issued for connections and not for any present or future traffic control devices at or near the permitted connections. The permit may describe these features and/or devices, but such description does not create any type of interest in such features."

Please respond to this e-mail within five (5) business days if you believe the information provided above does not accurately summarize the meeting. If there are no comments or suggested changes, the above meeting notes will be considered as acceptable.

Theresa Myers

Access Management Specialist
Florida Department of Transportation
801 N. Broadway Ave.
Bartow, FL 33830
(863) 519-2671
theresa.myers@dot.state.fl.us



Faller, Davis & Associates, Inc.

CONSULTING ENGINEERS

December 8, 2010

Manatee County Public Works
Attn: Sia Mollanazar, P.E.
1022 26th Avenue East
Bradenton, FL 34208

Subject: Drainage Connection Permit Compliance Review
Project Name: Perico Bayou Parking Area
Project Number: 10-D-194-0010
Section: 13150 S.R.: 64 M.P.: 2.430-2.570
County: Manatee
Chapter 14-86, Florida Administrative Code

Dear Mr. Mollanazar:

We have completed our technical review of the above referenced Drainage Connection Permit Application.

The recently submitted stormwater calculations are in compliance with Chapter 14-86.003(3) with regards to Drainage only. We will recommend to the local Maintenance Department/Operations Center that the information submitted to us is in compliance with Rule Chapter 14-86 Requirements for a Drainage Connection Permit.

- **Final approval will be granted by the Local Maintenance Office/Operations Center. This correspondence is not indicative of an approved Permit.**
- **Future design changes may nullify this recommendation and necessitate further reviews of your application.**

If I can be of further assistance with this application process, please contact either myself at dknighton@fallerdavis.com or Leanna O'Regan at (813)289-5300 or oregan@pbworld.com.

Sincerely,

Deborah L Knighton, P.E.
Access Management Engineer – Drainage

cc: Mr. Carl Spirio, P.E. District Drainage Engineer
Mrs. Karina Della Sera - Senior Drainage Design Manager
Ms. Leanna O'Regan – PB, Drainage Engineer
Ms. Valerie Everts – Sarasota Operations Center



An Equal Opportunity Employer

Southwest Florida Water Management District

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

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

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

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

October 29, 2010

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- H. Paul Sault, Jr.**
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Sarasota
- Maritza Rovira-Foriso**
Hillsborough

David L. Moore
Executive Director
William S. Blisak
General Counsel

Board of County Commissioners
Manatee County
Post Office Box 1000
Bradenton, FL 34206-1000

Subject: Notice of Final Agency Action for Approval
ERP General for Minor Systems
Permit No. 46035675.000
Project Name: Perico Bayou Parking Area
County: Manatee
Sec/Twp/Rge: 26/34S/16E

Dear Mr. Permittee:

This letter constitutes notice of Final Agency Action for approval of the permit referenced above. Final approval is contingent upon no objection to the District's action being received by the District within the time frames described below.

You or any person whose substantial interests are affected by the District's action regarding a permit may request an administrative hearing in accordance with Sections 120.569 and 120.57, Florida Statutes, (F.S.), and Chapter 28-106, Florida Administrative Code, (F.A.C.), of the Uniform Rules of Procedure. *A request for hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's action, or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no disputed facts, and (3) otherwise comply with Chapter 28-106, F.A.C.* Copies of Sections 28-106.201 and 28-106.301, F.A.C. are enclosed for your reference. A request for hearing must be filed with (received by) the Agency Clerk of the District at the District's Brooksville address within 21 days of receipt of this notice. Receipt is deemed to be the fifth day after the date on which this notice is deposited in the United States mail. Failure to file a request for hearing within this time period shall constitute a waiver of any right you or such person may have to request a hearing under Sections 120.569 and 120.57, F.S. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding the District's action in this matter is not available prior to the filing of a request for hearing.

Enclosed is a "Noticing Packet" that provides information regarding the District Rule 40D-1.1010, F.A.C., which addresses the notification of persons whose substantial interests may be affected by the District's action in this matter. The packet contains guidelines on how to provide notice of the District's action, and a notice that you may use.

The enclosed approved construction plans are part of the permit, and construction must be in accordance with these plans.

*Scanned & Forwarded to Springbrook
Nowbray Park
Ally's at Oakley*

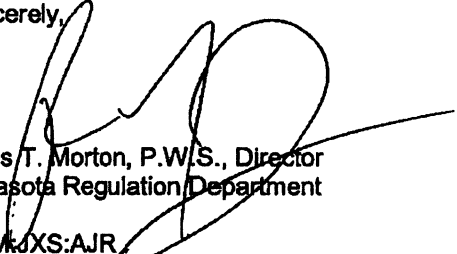
RECEIVED
NOV 04 2010
PUBLIC WORKS
ENGINEERING DIVISION



October 29, 2010

If you have questions concerning the permit, please contact Junhong Shi, P.E., at the Sarasota Service Office, extension 6578. For assistance with environmental concerns, please contact Clifford J. Ondercin, extension 6537.

Sincerely,



Ross T. Morton, P.W.S., Director
Sarasota Regulation Department

RTM/XS:AJR

Enclosures: Approved Permit w/Conditions Attached
Approved Construction Drawings
Statement of Completion
Notice of Authorization to Commence Construction
Noticing Packet (42.00-039)
Sections 28-106.201 and 28-106.301, F.A.C.

cc/enc: File of Record 46035675.000

Sia Mollanazar, P.E., Manatee County Public Works
Terri L. Behling, Southwest Florida Water Management District

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
GENERAL FOR MINOR SURFACE WATER MANAGEMENT SYSTEMS
PERMIT NO. 46035875.000

Expiration Date: October 29, 2015

Issue Date: October 29, 2010

This permit is issued under the provisions of Chapter 373, Florida Statutes, (F.S.), and the Rules contained in Chapters 40D-4 and 40D-40, Florida Administrative Code, (F.A.C.). The permit authorizes the Permittee to proceed with construction of a surface water management system in accordance with the information outlined herein and shown by the application, approved drawings, plans, specifications, and other documents, attached hereto and kept on file at the Southwest Florida Water Management District (District). Unless otherwise stated by permit specific condition, permit issuance constitutes certification of compliance with state water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341. All construction, operation and maintenance of the surface water management system authorized by this permit shall occur in compliance with Florida Statutes and Administrative Code and the conditions of this permit.

PROJECT NAME: Perico Bayou Parking Area

GRANTED TO: Manatee County
Post Office Box 1000
Bradenton, FL 34206-1000

ABSTRACT: This permit authorizes the construction of a surface water management system designed to serve a 1.92-acre roadway project in Manatee County. The surface water management system has been designed to provide water quality treatment for the development. The method of water quality treatment is on-line retention. Information regarding the surface water management system, 100-year floodplain, wetlands and/or surface waters is stated below and on the permitted construction drawings for the project.

OP. & MAINT. ENTITY: Manatee County Public Works

COUNTY: Manatee

SEC/TWP/RGE: 26/34S/16E

**TOTAL ACRES OWNED
OR UNDER CONTROL:** 1.92

PROJECT SIZE: 1.92 Acres

LAND USE: Government

DATE APPLICATION FILED: August 25, 2010

AMENDED DATE: N/A

I. Water Quantity/Quality

POND NO.	AREA ACRES @ TOP OF BANK	TREATMENT TYPE
1	0.13	On-line Retention
TOTAL	0.13	

Comments: The project includes new turn lanes, off street parking area, sidewalk and boardwalk to improve traffic safety and circulation associate with Perico Bayou & Robinson Preserve recreational facilities. Since retention pond will discharge to Perico Bayou, an Outstanding Florida Water, it is designed to provide 50% more treatment volume than what is required under standard criteria. The receiving waterbody (WBID 1868, Sarasota Bay) is impaired for mercury.

A mixing zone is not required.

A variance is not required.

II. 100-Year Floodplain

Encroachment (Acre-Feet of fill)	Compensation (Acre-Feet of excavation)	Compensation Type	Encroachment Result (feet)
0.00	0.00	N/A	N/A

III. Environmental Considerations

Wetlands and other surface waters are not located within the project area for this ERP.

A regulatory conservation easement is not required.

A proprietary conservation easement is not required.

SPECIFIC CONDITIONS

1. If the ownership of the project area covered by the subject permit is divided, with someone other than the Permittee becoming the owner of part of the project area, this permit shall terminate, pursuant to Section 40D-1.6106, F.A.C. In such situations, each land owner shall obtain a permit (which may be a modification of this permit) for the land owned by that person. This condition shall not apply to the division and sale of lots or units in residential subdivisions or condominiums.

2. Unless specified otherwise herein, two copies of all information and reports required by this permit shall be submitted to:

Sarasota Regulation Department
 Southwest Florida Water Management District
 6750 Fruitville Road
 Sarasota, FL 34240-9711

The permit number, title of report or information and event (for recurring report or information submittal) shall be identified on all information and reports submitted.

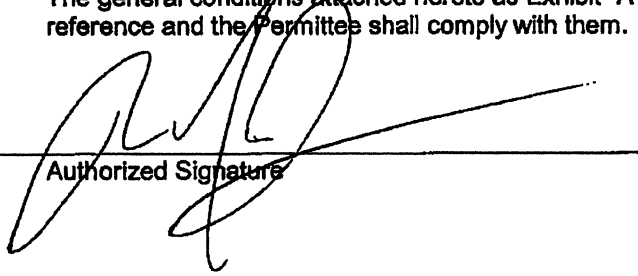
3. The Permittee shall retain the design engineer, or other professional engineer registered in Florida, to conduct on-site observations of construction and assist with the as-built certification requirements of this project. The Permittee shall inform the District in writing of the name, address and phone number of the professional engineer so employed. This information shall be submitted prior to construction.

4. Within 30 days after completion of construction of the permitted activity, the Permittee shall submit to the Sarasota Service Office a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing the required Statement of Completion and Request for Transfer to Operation Entity form identified in Chapter 40D-1.659, F.A.C., and signed, dated and sealed as-built drawings. The as-built drawings shall identify any deviations from the approved construction drawings.
5. The District reserves the right, upon prior notice to the Permittee, to conduct on-site research to assess the pollutant removal efficiency of the surface water management system. The Permittee may be required to cooperate in this regard by allowing on-site access by District representatives, by allowing the installation and operation of testing and monitoring equipment, and by allowing other assistance measures as needed on site.
6. All construction is prohibited within the permitted project area until the Permittee acquires legal ownership or legal control of the project area as delineated in the permitted construction drawings.
7. For dry bottom retention systems, the retention areas shall become dry within 72 hours after a rainfall event. If a retention area is regularly wet, this situation shall be deemed to be a violation of this permit.
8. The operation and maintenance entity shall submit inspection reports in the form required by the District, in accordance with the following schedule.

For systems utilizing retention or wet detention, the inspections shall be performed two (2) years after operation is authorized and every two (2) years thereafter.
9. The District, upon prior notice to the Permittee, may conduct on-site inspections to assess the effectiveness of the erosion control barriers and other measures employed to prevent violations of state water quality standards and avoid downstream impacts. Such barriers or other measures should control discharges, erosion, and sediment transport during construction and thereafter. The District will also determine any potential environmental problems that may develop as a result of leaving or removing the barriers and other measures during construction or after construction of the project has been completed. The Permittee must provide any remedial measures that are needed.
10. This permit is issued based upon the Permittee's certification that the surface water management system meets all applicable rules and specifications, including the Conditions for Issuance of Permits provided in Rule 40D-40.301(1), F.A.C. If at any time it is determined by the District that the Conditions for Issuance have not been met, upon written notice by the District, the Permittee shall obtain a permit modification and perform any construction necessary thereunder to correct any deficiencies in the system design or construction to meet District rule criteria. The Permittee is advised that the correction of deficiencies may require re-construction of the surface water management system.
11. Certification of compliance with state water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341 is waived.

GENERAL CONDITIONS

1. The general conditions attached hereto as Exhibit "A" are hereby incorporated into this permit by reference and the Permittee shall comply with them.



Authorized Signature

PART II HEARINGS INVOLVING DISPUTED ISSUES OF MATERIAL FACT

28-106.201 Initiation of Proceedings.

(1) Unless otherwise provided by statute, and except for agency enforcement and disciplinary actions that shall be initiated under Rule 28-106.2015, F.A.C., initiation of proceedings shall be made by written petition to the agency responsible for rendering final agency action. The term "petition" includes any document that requests an evidentiary proceeding and asserts the existence of a disputed issue of material fact. Each petition shall be legible and on 8 1/2 by 11 inch white paper. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced.

(2) All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

(3) Upon receipt of a petition involving disputed issues of material fact, the agency shall grant or deny the petition, and if granted shall, unless otherwise provided by law, refer the matter to the Division of Administrative Hearings with a request that an administrative law judge be assigned to conduct the hearing. The request shall be accompanied by a copy of the petition and a copy of the notice of agency action.

Specific Authority 120.54(3), (5) FS. Law Implemented 120.54(5), 120.569, 120.57 FS. History—New 4-1-97, Amended 9-17-98, 1-15-07.

PART III PROCEEDINGS AND HEARINGS NOT INVOLVING DISPUTED ISSUES OF MATERIAL FACT

28-106.301 Initiation of Proceedings.

(1) Unless otherwise provided by statute and except for agency enforcement and disciplinary actions initiated under subsection 28-106.2015(1), F.A.C., initiation of a proceeding shall be made by written petition to the agency responsible for rendering final agency action. The term "petition" includes any document which requests a proceeding. Each petition shall be legible and on 8 1/2 by 11 inch white paper or on a form provided by the agency. Unless printed, the impression shall be on one side of the paper only and lines shall be doubled-spaced.

(2) All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) An explanation of how the petitioner's substantial interests will be affected by the agency determination;

(d) A statement of when and how the petitioner received notice of the agency decision;

(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;

(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action;

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action; and

(h) A statement that no material facts are in dispute.

Specific Authority 120.54(5) FS. Law Implemented 120.54(5), 120.569, 120.57 FS. History—New 4-1-97, Amended 9-17-98, 1-15-07, 12-24-07.

EXHIBIT "A"

1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. For general permits authorizing incidental site activities, the following limiting general conditions shall also apply:
 - a. If the decision to issue the associated individual permit is not final within 90 days of issuance of the incidental site activities permit, the site must be restored by the permittee within 90 days after notification by the District. Restoration must be completed by re-contouring the disturbed site to previous grades and slopes re-establishing and maintaining suitable vegetation and erosion control to provide stabilized hydraulic conditions. The period for completing restoration may be extended if requested by the permittee and determined by the District to be warranted due to adverse weather conditions or other good cause. In addition, the permittee shall institute stabilization measures for erosion and sediment control as soon as practicable, but in no case more than 7 days after notification by the District.
 - b. The incidental site activities are commenced at the permittee's own risk. The Governing Board will not consider the monetary costs associated with the incidental site activities or any potential restoration costs in making its decision to approve or deny the individual environmental resource permit application. Issuance of this permit shall not in any way be construed as commitment to issue the associated individual environmental resource permit.
4. Activities approved by this permit shall be conducted in a manner which does not cause violations of state water quality standards. The permittee shall implement best management practices for erosion and a pollution control to prevent violation of state water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
5. Water quality data for the water discharged from the permittee's property or into the surface waters of the state shall be submitted to the District as required by the permit. Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by the American Public Health Association or Methods for Chemical Analyses of Water and Wastes by the U.S. Environmental Protection Agency. If water quality data are required, the permittee shall provide data as required on volumes of water discharged, including total volume discharged during the days of sampling and total monthly volume discharged from the property or into surface waters of the state.

6. District staff must be notified in advance of any proposed construction dewatering. If the dewatering activity is likely to result in offsite discharge or sediment transport into wetlands or surface waters, a written dewatering plan must either have been submitted and approved with the permit application or submitted to the District as a permit prior to the dewatering event as a permit modification. A water use permit may be required prior to any use exceeding the thresholds in Chapter 40D-2, F.A.C.
7. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
8. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating schedules satisfactory to the District.
9. The permittee shall complete construction of all aspects of the surface water management system, including wetland compensation (grading, mulching, planting), water quality treatment features, and discharge control facilities prior to beneficial occupancy or use of the development being served by this system.
10. The following shall be properly abandoned and/or removed in accordance with the applicable regulations:
 - a. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed well contractor.
 - b. Any existing septic tanks on site shall be abandoned at the beginning of construction.
 - c. Any existing fuel storage tanks and fuel pumps shall be removed at the beginning of construction.
11. All surface water management systems shall be operated to conserve water in order to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of offsite property.
12. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a written notification of commencement indicating the actual start date and the expected completion date.
13. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the occupation of the site or operation of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.
14. Within 30 days after completion of construction of the permitted activity, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing the required Statement of Completion and Request for Transfer to Operation Entity form identified in Chapter 40D-1, F.A.C. Additionally, if deviation from the approved drawings are discovered during the certification process the certification must be accompanied by a copy of the approved permit drawings with deviations noted.

15. This permit is valid only for the specific processes, operations and designs indicated on the approved drawings or exhibits submitted in support of the permit application. Any substantial deviation from the approved drawings, exhibits, specifications or permit conditions, including construction within the total land area but outside the approved project area(s), may constitute grounds for revocation or enforcement action by the District, unless a modification has been applied for and approved. Examples of substantial deviations include excavation of ponds, ditches or sump areas deeper than shown on the approved plans.
16. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the conditions herein, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District accepts responsibility for operation and maintenance of the system. The permit may not be transferred to the operation and maintenance entity approved by the District until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the responsible operation and maintenance entity approved by the District, if different from the permittee. Until a transfer is approved by the District, the permittee shall be liable for compliance with the terms of the permit.
17. Should any other regulatory agency require changes to the permitted system, the District shall be notified of the changes prior to implementation so that a determination can be made whether a permit modification is required.
18. This permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations including a determination of the proposed activities' compliance with the applicable comprehensive plan prior to the start of any activity approved by this permit.
19. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40D-4 or Chapter 40D-40, F.A.C.
20. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.
21. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.
22. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rule 40D-4.351, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
23. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with District rules, regulations and conditions of the permits.
24. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District and the Florida Department of State, Division of Historical Resources.
25. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.



Faller, Davis & Associates, Inc.

CONSULTING ENGINEERS

September 13, 2010

Manatee County Public Works
Attn: Sia Mollanazar, P.E.
1022 26th Avenue East
Bradenton, FL 34208

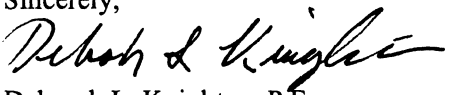
**Subject: Drainage Connection Permit Application
Request for Additional Information
Project Name: Perico Bayou Parking Area
Project Number: 10-D-194-0010
Section: 13150 S.R.: 64 M.P.: 2.430-2.570
County: Manatee
Chapter 14-86, Florida Administrative Code**

Dear Mr. Mollanazar:

We have received the above referenced Drainage Connection Permit Application which is currently under review. The information indicated on the enclosed checklist will be required before we can complete the review. Please address all comments in writing.

Please submit four copies of the required information to the address shown below within **sixty (60) days** of the date of this letter. If the requested information cannot be provided within the stipulated time period, an extension of this time period may be requested. Please provide acceptable justification for this extension. Your request for an extension must be received within **60 days** of the date of this letter. In the event that the requested information is not received within **60 days**, your application will be reviewed as is, and could possibly be processed for denial. A denial by the Department does not prevent re-submittal of this application at a later date.

If I can be of further assistance with this application process, please contact either myself at dknighton@fallerdavis.com or Leanna O'Regan at (813)289-5300 or oregan@pbworld.com.

Sincerely,

Deborah L. Knighton, P.E.
Access Management Engineer - Drainage

- cc: Mr. Carl Spirio, P.E. – District Drainage Engineer
- Mrs. Karina Della Sera - Senior Drainage Design Manager
- Ms. Valerie Everts – Sarasota Operations Center
- Ms. Leanna O'Regan - PBA

BRPTON OPS.CTR. 10SEP20 AM 10:24

**Subject: Drainage Connection Permit Application
Request for Additional Information
Project Name: Perico Bayou Parking Area
Project Number: 10-D-194-0010
Section: 13150 S.R.: 64 M.P.: 2.430-2.570
County: Manatee
Chapter 14-86, Florida Administrative Code**

Request for Additional Information:

General Comments:

1. Final approval of your Drainage Connection Permit will be contingent upon obtaining an approved permit from SWFWMD. Please provide the approved SWFWMD Construction Permit.
2. Your proposed pond extends into the FDOT right of way. Has there been coordination with the FDOT with respect to providing stormwater treatment of your parking area within the FDOT right of way? Typically this is not allowed. If meeting notes are available, please provide this documentation for the permit file.

Drainage Calculations Comments:

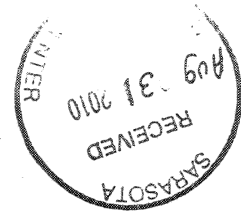
3. Please provide a sketch or exhibit indicating the contributing area to the proposed pond.
4. Please provide CN calculations.
5. The Department's preference for raised berms is to have a five foot wide flat top for ease of maintenance. The proposed pond berm does not have a flat top. Will the County be maintaining the proposed pond?
6. The soils map and your report indicates that the existing soils are hydrologic group D. The proposed pond is typically at the existing ground elevation or in cut. The soils report indicates that the seasonal high ground water table (SHGWT) can range from 0' to 1' below the existing ground surface. It seems a wet detention linear pond would be more suitable for this location. Was a wet detention pond considered? Have any Geotechnical borings been performed to determine the SHGWT and verify if a dry pond would work? It seems a Double Ring Infiltration Test would be a good idea to ensure the infiltration rate will be suitable as well. The permit information for Perico Bay is included in your documentation however it is unknown how they determined their SHGWT estimate. How far from your proposed pond site are they located? Conditions can vary considerably. As your proposed pond extends into the FDOT right of way, please consider a wet swale option and attempt to reduce or eliminate the encroachment of your pond into the FDOT right of way.
7. Do the treatment volume calculations include the turn lane and FDOT roadway area contributing to it? Turn lanes less than one quarter mile in length do not require treatment. Have you considered bypassing the swale proposed within the FDOT right of way directly to the wetland to reduce your treatment volume requirement?

8. Could you consider a bypass swale between the FDOT roadway and your parking lot? If you can reduce your treatment volume required, you may be able to raise your pond bottom for a better dry retention pond design.
9. Since attenuation is not required, using a wide concrete capped spillover weir in lieu of the two proposed control structures would reduce your peak stage. This may give you more room for treatment volume within the limits of your property area.

Design/Plan Sheet Comments:

10. Please revise your plans as needed per above comments.
11. To expedite your permitting process, please ensure that you resubmit to me at the address noted on the bottom of the cover letter. For an interim review, you may submit one set of plans and calculations. Submit four signed and sealed copies of both the plans and the calculations for your final submittal once all comments are addressed.

These comments are not intended to be all inclusive of errors and omissions. It should not be assumed that any issues that are not addressed in this correspondence are acceptable to this Department. The consultant is solely responsible for technical accuracy, engineering judgment and quality of his work.



MANATEE COUNTY
FLORIDA

August 31, 2010
Mr. Ed Giddens, Permits Supervisor
FDOT
1840 61st Street
Sarasota, FL 34243-2224

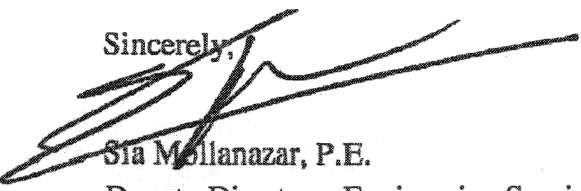
**Re: Perico Bayou Parking Area
Section 26, M.P. 2.43 to M.P. 2.57
Manatee County, FL**

Dear Mr. Giddens:

Please find enclosed five (4) sets of signed and sealed construction plans, four Driveway/Connection Application, four Driveway/Connection Permits and four sets of Drainage Connection Permit Applications for the above referenced project submitted for your preliminary review. Please note that four (4) sets of the construction plans are for FDOT Structural Department review.

If you have any questions, please call me at (941) 708-7487.

Sincerely,



Sia Mollanazar, P.E.
Deputy Director – Engineering Services

AM/jh

Attachments: Four (4) Sets of Driveway Connection Application
Four (4) Sets Driveway Application Permits
Four (4) 11" x 17" signed and sealed construction plans
Four (4) Drainage Connection Permit Applications
Four (4) signed and sealed construction plans for Structural Department Review

cc: Chris Mowbray, Project Engineering Manager-w/out attachments via email
Bruce Simmington, Project Management Division Manager-w/out attachments via email
File

Public Works Department – Highway Engineering Division
Mailing Address: P.O. Box 1000* Bradenton, Florida 34206-1000
Street Address: 1022 26th Avenue East* Bradenton, Florida 34208
PHONE: 941-708-7462 * FAX: 941-7108-7475
www.mymanatee.org

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**DRIVEWAY/CONNECTION PERMIT
FOR ALL CATEGORIES**

ALL CONTRACTORS AND
SUB-CONTRACTORS SHALL
BE RESPONSIBLE FOR
COMPLIANCE WITH
PERMITTED MOT
PLAN

PART 1: PERMIT INFORMATION

Permittee

Application Number: 2010-A-194-27

Permit Category: J- Govt. Entry Access Classification: 6

Project: Perico Bayou Parking Area

Permittee: Manatee County

Section/Mile Post: 13150000/2.430 State Road: SR-64

Section/Mile Post: 13150000/2.570 State Road: SR-64

PART 2: PERMITTEE INFORMATION

Permittee Name: Manatee County Public Works Department

Permittee Mailing Address: 1022 26th Ave. East

City, State, Zip: Bradenton, Florida 34208

Telephone: 941-708-7462

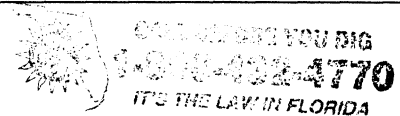
Engineer/Consultant/or Project Manager: Sal Bordonaro, Project Manager

Engineer responsible for construction inspection: Sia Mollanazar P.E. Deputy Director 42903
NAME P.E. #

Mailing Address: 1022 26th Ave. East

City, State, Zip: Bradenton, Florida 34208

Telephone: 941-708-7487 Mobile Phone: _____



PART 3: PERMIT APPROVAL

The above application has been reviewed and is hereby approved subject to all Provisions as attached.

Permit Number: 2010-A-194-27
Department of Transportation

Signature: Albert Rosenstein Title: Engineering Manager

Department Representative's Name: Albert Rosenstein

Temporary Permit: YES NO (If temporary, this permit is only valid for 6 months)

Special provisions attached: YES NO

Date of Issuance: 10-24-12

If this is a normal (non-temporary) permit it authorizes construction for one year from the date of issuance. This can only be extended by the Department as specific in 14-96.007(6).

See following pages for General and Special Provisions

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**DRIVEWAY/CONNECTION PERMIT
FOR ALL CATEGORIES****PART 4: GENERAL PROVISIONS**

1. Notify the Department of Transportation Maintenance Office at least 48 hours in advance of starting proposed work.
Phone: 941-359-7300, Attention: Valerie A. Everts
2. A copy of the approved permit must be displayed in a prominent location in the immediate vicinity of the connection of construction.
3. Comply with Rule 14-96.008(1), F.A.C., Disruption of Traffic.
4. Comply with Rule 14-96.008(7), F.A.C., on Utility Notification Requirements.
5. All work performed in the Department's right of way shall be done in accordance with the most current Department standards, specifications and the permit provisions.
6. The permittee shall not commence use of the connection prior to a final inspection and acceptance by the Department.
7. Comply with Rule 14-96.003(3)(a), F.A.C., Cost of Construction.
8. If a Significant Change of the permittee's land use, as defined in Section 335.182, Florida Statutes, occurs, the Permittee must contact the Department.
9. Medians may be added and median openings may be changed by the Department as part of a Construction Project or Safety Project. The provision for a median might change the operation of the connection to be for right turns only.
10. All conditions in NOTICE OF INTENT WILL APPLY unless specifically changed by the Department.
11. All approved connection(s) and turning movements are subject to the Department's continuing authority to modify such connection(s) or turning movements in order to protect safety and traffic operations on the state highway or State Highway System.
12. **Transportation Control Features and Devices in the State Right of Way.** Transportation control features and devices in the Department's right of way, including, but not limited to, traffic signals, medians, median openings, or any other transportation control features or devices in the state right of way, are operational and safety characteristics of the State Highway and are not means of access. The Department may install, remove or modify any present or future transportation control feature or device in the state right of way to make changes to promote safety in the right of way or efficient traffic operations on the highway.
13. The Permittee for him/herself, his/her heirs, his/her assigns and successors in interest, binds and is bound and obligated to save and hold the State of Florida, and the Department, its agents and employees harmless from any and all damages, claims, expense, or injuries arising out of any act, neglect, or omission by the applicant, his/her heirs, assigns and successors in interest that may occur by reason of this facility design, construction, maintenance, or continuing existence of the connection facility, except that the applicant shall not be liable under this provision for damages arising from the sole negligence of the Department.
14. The Permittee shall be responsible for determining and notify all other users of the right of way.
15. Starting work on the State Right of Way means that I am accepting all conditions on the Permit.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**DRIVEWAY/CONNECTION PERMIT
FOR ALL CATEGORIES**

850-040-18
SYSTEMS PLANNING
06/06
Page 3 of 3

PART 5: SPECIAL PROVISIONS

NON-CONFORMING CONNECTIONS: YES NO

If this is a non-conforming connection permit, as defined in Rule Chapters 14-96 and 14-97, then the following shall be a part of this permit.

1. The non-conforming connection(s) described in this permit is (are) not permitted for traffic volumes exceeding the Permit Category on page 1 of this permit, or as specified in "Other Special Provisions" below.
2. All non-conforming connections will be subject to closure or relocation when reasonable access becomes available in the future.

OTHER SPECIAL PROVISIONS:

PART 6: APPEAL PROCEDURES

You may petition for an administrative hearing pursuant to sections 120.569 and 120.57, Florida Statutes. If you dispute the facts stated in the foregoing Notice of Intended Department Action (hereinafter Notice), you may petition for a formal administrative hearing pursuant to section 120.57(1), Florida Statutes. If you agree with the facts stated in the Notice, you may petition for an informal administrative hearing pursuant to section 120.57(2), Florida Statutes. You must file the petition with:

Clerk of Agency Proceedings
Department of Transportation
Haydon Burns Building
605 Suwannee Street, M.S. 58
Tallahassee, Florida 32399-0458

The petition for an administrative hearing must conform to the requirements of Rule 28-106.201(2) or Rule 28-106.301(2), Florida Administrative Code, and be filed with the Clerk of Agency Proceedings by 5:00 p.m. no later than 21 days after you received the Notice. The petition must include a copy of the Notice, be legible, on 8 1/2 by 11 inch white paper, and contain:

1. Your name, address, telephone number, any Department of Transportation identifying number on the Notice, if known, the name and identification number of each agency affected, if known, and the name, address, and telephone number of your representative, if any, which shall be the address for service purposes during the course of the proceeding.
2. An explanation of how your substantial interests will be affected by the action described in the Notice;
3. A statement of when and how you received the Notice;
4. A statement of all disputed issues of material fact. If there are none, you must so indicate;
5. A concise statement of the ultimate facts alleged, including the specific facts you contend warrant reversal or modification of the agency's proposed action, as well as an explanation of how the alleged facts relate to the specific rules and statutes you contend require reversal or modification of the agency's proposed action;
6. A statement of the relief sought, stating precisely the desired action you wish the agency to take in respect to the agency's proposed action.

If there are disputed issues of material fact a formal hearing will be held, where you may present evidence and argument on all issues involved and conduct cross-examination. If there are no disputed issues of material fact an informal hearing will be held, where you may present evidence or a written statement for consideration by the Department.

Mediation, pursuant to section 120.573, Florida Statutes, may be available if agreed to by all parties, and on such terms as may be agreed upon by all parties. The right to an administrative hearing is not affected when mediation does not result in a settlement.

Your petition for an administrative hearing shall be dismissed if it is not in substantial compliance with the above requirements of Rule 28-106.201(2) or Rule 28-106.301(2), Florida Administrative Code. If you fail to timely file your petition in accordance with the above requirements, you will have waived your right to have the intended action reviewed pursuant to chapter 120, Florida Statutes, and the action set forth in the Notice shall be conclusive and final.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**DRIVEWAY/CONNECTION APPLICATION
 FOR ALL CATEGORIES**

OFFICE USE ONLY	
Application Number: _____ Category: _____ Section/Mile Post: <u>13150000/2.43</u> Section/Mile Post: <u>13150000/2.57</u>	Received By: _____ FDOT STAFF (TYPE OR PRINT) Date: <u>8/11/2010</u> State Road: <u>SR 64</u> State Road: <u>SR 64</u>

Instructions – To Applicant

- Contact the Department of Transportation to determine what plans and other documents you are required to submit with your application.
- Complete this form (some questions may not apply to you) and attach all necessary documents and submit it to the Department of Transportation.
- For help with this form contact your local Maintenance or District Office.
 - Or visit our website at www.dot.state.fl.us/onestoppemitting for the contact person and phone number in your area.
 - You may also email – driveways@dot.state.fl.us
 - Or call your District or local Florida Department of Transportation Office and ask for Driveway Permits.

Please print or type

APPLICANT:

Check one:
 Owner Lessee Contract to Purchase

Name: Manatee County Public Works Department

Responsible Officer or Person: Sia Mollanazar, P.E., Deputy Director

If the Applicant is a Company or Organization, Name: Manatee County Public Works Department.

Address: 1022 26th Avenue East

City, State: Bradenton, Fl

Zip: 34208 Phone: 941-708-7487 Fax: 941-708-7475

Email: Sia.Mollanazar@mymanatee.org

LAND OWNER: (If not applicant)

Name: _____

If the Applicant is a Company or Organization, Name: Perico Magazine

Address: 11001 Bristol Bay DR BR

City, State: Bradenton, Florida

Zip: 34208 Phone: _____ Fax: _____

Email: _____

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**DRIVEWAY/CONNECTION APPLICATION
FOR ALL CATEGORIES**

AUTHORIZED REPRESENTATIVE: If specified by Applicant to handle, represent, sign, and file the application –
NOTE: A notarized letter of authorization must be provided with the Application.

Name: Sia Mollanazar, P.E., Deputy Director, Engineering Services

Company Name: Manatee County Public Works Department

Address: 1022 26th Avenue East

City, State: Bradenton, FL

Zip: 34208 Phone: 941-708-7487 Fax: 941-708-7475

Email: Sia.Mollanazar@mymanatee.org

Address of property to be served by permit (if known):
11001 Bristol Bay Manatee Avenue West Bradenton, Florida 34208

If address is not known, provide distance from nearest intersecting public street (such as, 500 feet south of Main St.)

Check here if you are requesting a

new driveway temporary driveway modification to existing driveway safety upgrade

Does the property owner own or have any interests in any adjacent property?

No Yes, if yes – please describe:

Are there other existing or dedicated public streets, roads, highways or access easements bordering or within the property?

No Yes, if yes – list them on our plans and indicate the proposed and existing access points.

Local Government Development Review or Approval Information:

Local Government Contact: _____

Name: _____

Government Agency: _____

Phone #: _____

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
DRIVEWAY/CONNECTION APPLICATION
FOR ALL CATEGORIES

If you are requesting commercial or industrial access, please indicate the types and number of businesses and provide the floor area square footage of each. Use additional sheets if necessary.

Business (Name and Type)	Square Footage	Business (Name and Type)	Square Footage
1. N/A		3.	
2. N/A		4.	

If you are requesting a residential development access, what is the type (single family, apartment, townhouse) and number of units?

Type	Number of Units
N/A	
N/A	

Provide an estimate of the daily traffic volume anticipated for the entire property at build out. (An individual single family home, duplex, or quad-plex is not required to complete this section).

Daily Traffic Estimate = 18,000 (Use the latest Institute of Transportation Engineers (ITE) Trip Generation Report)

If you used the ITE Trip Generation Report, provide the land use code, independent variable, and reference page number.

ITE Land Use Code	Independent Variable	ITE Report page number reference

Check with the Florida DOT Office where you will return this form to determine which of the following documents are required to complete the review of your application.

Plans should be 11" x 17" (scale 1" x 50') Note: No plans larger than 24" x 36" will be accepted a) Highway and driveway plan profile b) Drainage plan showing impact to the highway right-of-way c) Map and letters detailing utility locations before and after Development in and along the right of way d) Subdivision, zoning, or development plans e) Property map indicating other access, bordering roads and streets	f) Proposed access design g) Parcel and ownership maps including easements (Boundary Survey) h) Signing and striping plans i) Traffic Control/Maintenance of Traffic plan j) Proof of liability insurance k) Traffic Impact Study l) Cross section of roadway every 100' if exclusive turn lanes are required
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Important Notices to Applicant Before Signing Application

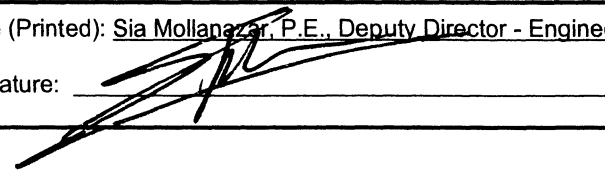
The Department Reserves The Right To Change Traffic Features And Devices In Right Of Way At Any Time
 Proposed traffic control features and devices in the right of way, such as median openings and other traffic control devices, are not part of the connection(s) to be authorized by a connection permit. The Department reserves the right to change these features and devices in the future in order to promote safety in the right of way or efficient traffic operations on the highway. Expenditure by the applicant of monies for installation or maintenance of such features or devices shall not create any interest in the maintenance of such features or devices.

Significant Changes In Property Use Must Undergo Further Review
 If an access permit is issued to you it will state the terms and conditions for its use. Significant changes in the use as defined in Section 335.182(3), Florida Statutes, of the permitted access not consistent with the terms and conditions listed on the permit may be considered a violation of the permit.

All Information I Give Is Accurate
 I certify that I am familiar with the information contained in this application and that to the best of my knowledge and belief, such information is true, complete and accurate.

Starting Work On The Driveway Connection After I Get My Permit Means I Accept All the Conditions In My Permit
 I will not begin work on the connection until I receive my Permit and I understand all the conditions of the Permit. When I begin work on the connection, I am accepting all conditions listed in my Permit.

Applicant Name (Printed): Sia Mollanazar, P.E., Deputy Director - Engineering Services, Manatee County Public Works Dept

Applicant's signature:  _____

Date: 8-11-10

FLORIDA DEPARTMENT OF TRANSPORTATION
Stormwater Pollution Control Reminder

- *Stormwater Management*
Contact your local municipality and/or the Southwest Florida Management District.
Bartow (863) 534-1448
Venice (Sarasota) (941) 278-7396
Fort Myers (Sarasota) (941) 278-7396
- Fort Myers is also part of South Florida Water Management District (800) 432-2045.
- *Used Oil recycling*
Contact the Florida Department of Environmental Protection at (813) 744-6100 or your local automotive parts store.
- *Hazardous Waste Disposal*
Contact the Florida Department of Environmental Protection at (813) 744-6100.
- *Spill Reporting*
State Warning Point (800) 320-0519
Federal Response Center (800) 424-8802
- *Pesticides & Fertilizers*
Contact your Local County Agricultural Extension Service.
Charlotte (941) 764-4340
Collier (239) 353-4244
Desoto (863) 993-4846
Glades (863) 946-0244
Hardee (863) 773-2164
Hendry (863) 674-4094
Highlands (863) 402-6540
Lee (239) 461-7500
Manatee (941) 722-4524
Okeechobee (863) 763-6469
Polk (863) 519-8677
Sarasota (941) 316-1000

LET'S WORK TOGETHER TO KEEP OUR ENVIRONMENT CLEAN...

AND INVEST IN FLORIDA'S FUTURE



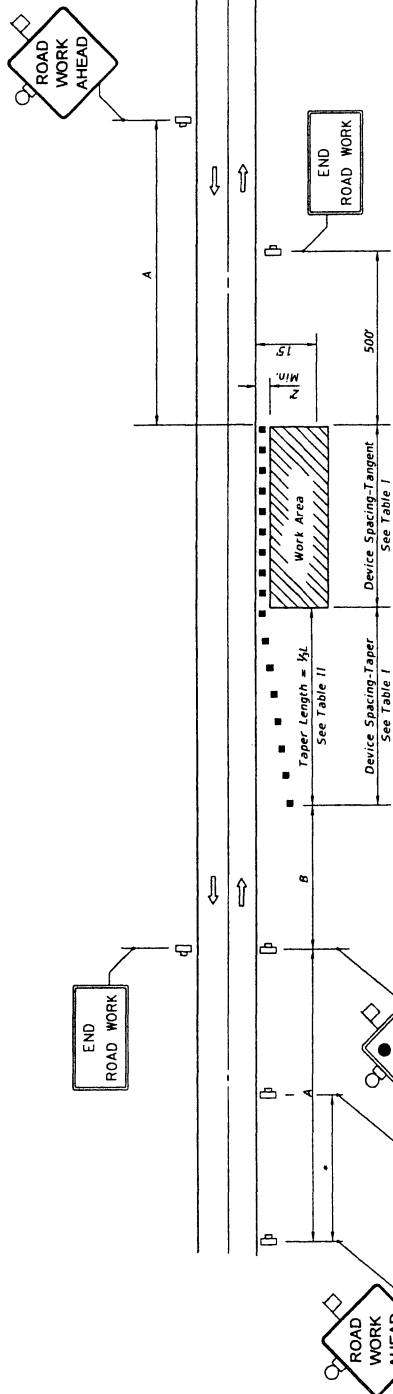


Table II
Taper Length - Shoulder

Speed (mph)	1/2L (ft)		Notes
	8" Shldr.	12" Shldr.	
25	28	35	42
30	40	50	60
35	55	68	82
40	72	90	107
45	120	150	180
50	133	167	200
55	147	183	220
60	160	200	240
65	173	217	260
70	187	233	280

Table I
Device Spacing

Speed (mph)	Max. Distance Between Devices (ft.)	
	Type I or Type II Cones or Tubular Markers	Type II Barricades or Vertical Panels or Drums
25	25	50
30 to 45	25	30
50 to 70	25	50

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

SYMBOLS

- Work Area
- Sign With 18" x 18" (Min.) Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

GENERAL NOTES

- When four or more work vehicles enter the through traffic lanes in a one hour period or less (excluding establishing and terminating the work area), the advanced FLAGGER sign shall be substituted for the WORKERS sign. For location of flaggers and FLAGGER signs, see Index No. 603.
- SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign only on the side where the shoulder work is being performed.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

- Signs and channelizing devices may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS
WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRoACH THE AREA CLoSER THAN 15' BUT NOT CLoSER THAN 2' TO THE EDGE OF TRAVEL WAY.

INDEX SHEET NO. 602
NO. 1

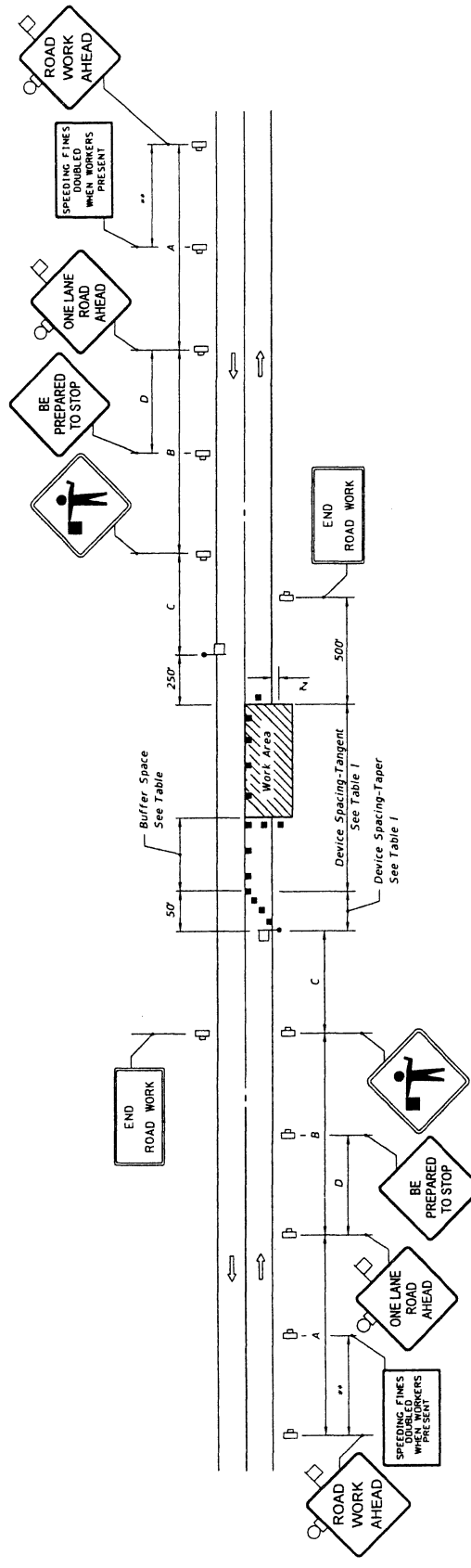
FDOT DESIGN STANDARDS
FY 2012/2013

TWO-LANE, TWO-WAY, WORK ON SHOULDER

DESCRIPTION:
REVISION
07/01/07

LAST REVISION
07/01/07

11-1313-M 1/20/2011
1/20/2011



Speed (mph)	Spacing (ft.)			
	A	B	C	D
40 or less	200	200	200	100
45	350	350	350	175
50	500	500	500	250
55 or greater	2640	1640	1000	500

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers	Type I or Type II Barricades or Vertical Panels or Drums	Taper	Tangent
25 to 45	20	50	20	50
50 to 70	20	50	20	100

Speed (mph)	Dist. (ft.)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

* The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign.

** 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

*** BE PREPARED TO STOP sign may be omitted for speeds of 45 MPH or less.

GENERAL NOTES

1. Work operations shall be confined to one traffic lane, leaving the opposite lane open to traffic.
 2. Additional one-way control may be effected by the following means:
 1. Flag-carrying vehicle;
 2. Official vehicle;
 3. Pilot vehicles;
 4. Traffic signals.
- When flaggers are the sole means of one-way control, the flaggers shall be in sight of each other or in direct communication at all times.
3. The ONE-LANE ROAD signs are to be fully covered and the FLAGGER signs either removed or fully covered when no work is being performed and the highway is open to two-way traffic.
 4. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TTC indexes.
 5. The two channelizing devices directly in front of the work area and the one channelizing device directly at the end of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
 6. For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

1. ROAD WORK AHEAD and the BE PREPARED TO STOP signs may be omitted if all of the following conditions are met:
 - a. Work operations are 60 minutes or less;
 - b. Speed limit is 45 mph or less;
 - c. No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space.
 - d. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
 - e. Volume and complexity of the roadway has been considered.
- When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

SYMBOLS

- Work Area
- Sign With 18" x 18" (Min.) Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Flagger
- Automated Flagger Assistance Devices (AFAD) With Gate
- Lane Identification + Direction of Traffic

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRUSH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.

LAST REVISION	07/01/09
DESCRIPTION:	

FDOT DESIGN STANDARDS
FY 2012/2013



TWO-LANE, TWO-WAY,
WORK WITHIN THE TRAVEL WAY

INDEX NO.	603
SHEET NO.	1

PERMIT VOID UNLESS DOT SARASOTA OPERATIONS OFFICE NOTIFIED 48 HOURS IN ADVANCE OF STARTING WORK.
PHONE: (941) 359-7300

IF A LANE CLOSURE IS WITHIN THE PROJECT LIMITS, THE PERMITTEE MUST NOTIFY THE DEPARTMENT 14 DAYS PRIOR TO A LANE CLOSURE TO ALLOW THE DEPARTMENT TO INFORM THE MOTORING PUBLIC. FAILURE TO CALL MAY RESULT IN A DELAY TO BEGIN WORK.

IF NO CLOSURES ARE REQUIRED THE SARASOTA OPERATIONS OFFICE MUST BE NOTIFIED 48 HOURS IN ADVANCE OF STARTING WORK. FAILURE TO CALL MAY RESULT IN A DELAY TO BEGIN WORK.

LANE CLOSURES AND OTHER WORK MAY BE RESTRICTED BY THE FDOT DUE TO HEAVY TRAFFIC AND POTENTIAL BACKUPS CAUSED BY THIS CONSTRUCTION. NIGHT WORK MAY BE REQUIRED.

DISTRICT ONE LANE CLOSURE POLICY MAY REQUIRE WORK TO BE PERFORMED DURING NIGHT TIME HOURS DUE TO LANE ANALYSIS AND/OR LANE RESTRICTIONS.

APPLICANT IS RESPONSIBLE FOR NOTIFYING OWNERS OF ALL EXISTING AERIAL AND BURIED UTILITIES OF PROPOSED DRIVEWAY AND RESOLVING ANY CONFLICTS BEFORE CONSTRUCTION BEGINS.

IN ACCORDANCE WITH FLORIDA STATUS 335.18 PERMITTEE SHALL BE REQUIRED TO BEAR THE COST OF FUTURE ACCESS MODIFICATIONS, TRAFFIC CONTROL DEVICES OR OTHER IMPROVEMENTS, WHEN DETERMINED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION TO BE IN CONJUNCTION WITH ACCEPTED ENGINEERING PRACTICES.

ALL CONSTRUCTION AND/OR MAINTENANCE ON THE DEPARTMENT'S RIGHT-OF-WAY SHALL CONFORM TO THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) THE DEPARTMENT'S ROADWAY AND TRAFFIC DESIGN STANDARDS AND BRIDGE CONSTRUCTION.

PERMITTEE/CONTRACTOR MUST WAIT 30 DAYS TO ALLOW ASPHALT FRICTION COURSE TO CURE BEFORE PLACING THERMOPLASTIC STRIPING.

OUR REVIEW COMMENTS ARE NOT INCLUDED TO BE INCLUSIVE OF ALL ERRORS AND OMISSIONS. OUR COMMENTS ARE ALSO NOT INTENDED TO AFFECT THE SCOPE OF WORK OR TO BE CONTRARY TO FHWA POLICY, FDOT DESIGN CRITERIA OR SOUND ENGINEERING PRACTICE. THE CONSULTANT/ENGINEER IS SOLELY RESPONSIBLE FOR THE TECHNICAL ACCURACY, ENGINEERING JUDGEMENT, AND QUALITY OF HIS WORK.

ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH PERMITTED M.O.T. PLAN.

SOD ALL PORTIONS OF DISTURBED RIGHT-OF-WAY.

NOTE: ALL ABOVE GROUND APPURTENANCES TO BE LOCATED AT RIGHT-OF-WAY LINE.

DENSITY REPORTS ARE TO BE SUBMITTED PRIOR TO PLACEMENT OF PAVEMENT.

"PRIOR TO EXCAVATING CONTACT THE CLERK OF THE CIRCUIT COURT FOR POSSIBLE GASOLINE CONFLICT."

THE APPLICANT SHALL NOT, DURING AND AFTER COMPLETION OF PERMITTED CONSTRUCTION, INTRODUCE ANY FORM OR METHOD OF SITE DRAINAGE DISCHARGE INTO THE DRAINAGE FACILITIES ON THE DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY OR EASEMENT. ANY DISCHARGE SHALL BE IN VIOLATION OF THIS PERMIT.

"PERMITTEE IS CAUTIONED THAT UTILITIES MAY BE LOCATED WITHIN THE CONSTRUCTION AREA."

IT IS THE RESPONSIBILITY OF THE PERMITTEE TO DETERMINE AND COMPLY WITH ALL COUNTY AND MUNICIPAL ORDINANCES THAT ARE RELATIVE TO THE CONSTRUCTION OR OTHER ACTIVITY DESCRIBED ON THIS PERMIT AND ARE MORE STRINGENT THAN DEPARTMENT OF TRANSPORTATION REQUIREMENTS.

N.P.D.E.S. REQUIRES THAT STORM WATER CONTROL MEASURES BE IMPLEMENTED ON ANY PROJECT ON PUBLIC TRANSPORTATION FACILITY RIGHTS-OF-WAY INCLUDING, BUT NOT LIMITED TO MEASURES DESCRIBED IN F.D.O.T. STANDARD DESIGN INDEX DRAWING NUMBERS 102, 103 AND 104.

"IF CONSTRUCTION, RECONSTRUCTION, REPAIR OR MAINTENANCE ACTIVITY NECESSITATES THE CLOSING OF ONE OR MORE TRAVEL LANES OF ANY ROAD ON THE STATE PRIMARY, COUNTY ROAD OR CITY STREET SYSTEM, FOR A PERIOD OF TIME EXCEEDING TWO HOURS, THE PARTY PERFORMING SUCH WORK WILL BE RESPONSIBLE TO GIVE NOTICE TO THE APPROPRIATE LOCAL LAW ENFORCEMENT AGENCY WHICH HAS JURISDICTION WHERE SUCH ROAD IS LOCATED PRIOR TO COMMENCING WORK ON THIS PROJECT"
335.15 F.S.91, 336.048 F.S.91



LEASE AGREEMENT

ITEM/SEGMENT NO.: N/A (Sec/Job: 1315-175)MANAGING DISTRICT: OneF.A.P. NO.: N/ASTATE ROAD NO.: 64COUNTY: ManateePARCEL NO.: 26 (Part)

THIS AGREEMENT, made this 1st day of October, 2012, by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, (hereinafter called the Lessor), and Manatee County

(hereinafter called the Lessee).

WITNESSETH:

In consideration of the mutual covenants contained herein, the parties agree as follows:

1. Property and Term. Lessor does hereby lease unto Lessee the property described in Exhibit "A" attached and made a part hereof, for a term of 25 beginning 10/1/2012 and ending 10/1/2037. This Lease may be renewed for an additional One 25 year term at Lessee's option, subject to the rent adjustment as provided in Paragraph 3 below. Lessee shall provide Lessor Ninety (90) days advanced written notice of its exercise of the renewal option.

If Lessee holds over and remains in possession of the property after the expiration of the term specified in this Lease, or any renewals of such term, Lessee's tenancy shall be considered a tenancy at sufferance, subject to the same terms and conditions as herein contained in this Lease.

This Lease is subject to all utilities in place and to the maintenance thereof as well as any other covenants, easements, or restrictions of record.

This Lease shall be construed as a lease of only the interest, if any, of Lessor, and no warranty of title shall be deemed to be given herewith.

2. Use. The leased property shall be used solely for the purpose of See attached Addendum. If the property is used for any other purpose, Lessor shall have the option of immediately terminating this Lease. Lessee shall not permit any use of the property in any manner that would obstruct or interfere with any transportation facilities.

Lessee will further use and occupy the leased property in a careful and proper manner, and not commit any waste thereon. Lessee will not cause, or allow to be caused, any nuisance or objectionable activity of any nature on the property. Lessee will not use or occupy said property for any unlawful purpose and will, at Lessee's sole cost and expense, conform to and obey any present or future ordinances and/or rules, regulations, requirements, and orders of governmental authorities or agencies respecting the use and occupation of the leased property.

Any activities in any way involving hazardous materials or substances of any kind whatsoever, either as those terms may be defined under any state or federal laws or regulations, or as those terms are understood in common usage, are specifically prohibited. The use of petroleum products, pollutants, and other hazardous materials on the leased property is prohibited. Lessee shall be held responsible for the performance of and payment for any environmental remediation that may be necessary, as determined by the Lessor, within the leased property. If any contamination either spread to or was released onto adjoining property as a result of Lessee's use of the leased property, the Lessee shall be held similarly responsible. The Lessee shall indemnify, defend, and hold harmless the Lessor from any claim, loss, damage, costs, charge, or expense arising out of any such contamination.

3. Rent. Lessee shall pay to Lessor as rent, on or before the first day of each rent payment period, the sum of N/A - Public Purpose Lease Agreement plus applicable tax, for each N/A of the term. If this Lease is terminated prior to the end of any rent payment period, the unearned portion of any rent payment, less any other amounts that may be owed to Lessor, shall be refunded to Lessee. Lessee shall pay any and all state, county, city, and local taxes that may be due during the term hereof, including any real property taxes. Rent payments shall be made payable to the Florida Department of Transportation and shall be sent to N/A

Lessor reserves the right to review and adjust the rental fee biennially and at renewal to reflect market conditions. Any installment of rent not received within ten (10) days after the date due shall bear interest at the highest rate allowed by law from the due date thereof, per Section 55.03(1), Florida Statutes. This provision shall not obligate Lessor to accept late rent payments or provide Lessee a grace period.

4. Improvements. No structures or improvements of any kind shall be placed upon the property without the prior written approval of the District Secretary for District One of Lessor. Any such structures or improvements shall be constructed in a good and workmanlike manner at Lessee's sole cost and expense. Subject to any landlord lien, any structures or improvements constructed by Lessee shall be removed by Lessee, at Lessee's sole cost and expense, by midnight on the day of termination of this

Lease and the leased property restored as nearly as practical to its condition at the time this Lease is executed. Portable or temporary advertising signs are prohibited.

Lessee shall perform, at the sole expense of Lessee, all work required in the preparation of the leased property for occupancy by Lessee, in the absence of any special provision herein contained to the contrary; and Lessee does hereby accept the leased property as now being in fit and tenable condition for all purposes of Lessee.

Lessor reserves the right to inspect the property and to require whatever adjustment to structures or improvements as Lessor, in its sole discretion, deems necessary. Any adjustments shall be done at Lessee's sole cost and expense.

5. Maintenance. Lessee shall keep and maintain the leased property and any building or other structure, now or hereafter erected thereon, in good and safe condition and repair at Lessee's own expense during the existence of this Lease, and shall keep the same free and clear of any and all grass, weeds, brush, and debris of any kind, so as to prevent the same from becoming dangerous, inflammable, or objectionable. Lessor shall have no duty to inspect or maintain any of the leased property or buildings, and other structures thereon, during the term of this Lease; however, Lessor shall have the right, upon twenty-four (24) hours notice to Lessee, to enter the leased property for purposes of inspection, including conducting an environmental assessment. Such assessment may include: surveying; sampling of building materials, soil, and groundwater; monitoring well installations; soil excavation; groundwater remediation; emergency asbestos abatement; operation and maintenance inspections; and, any other actions which may be reasonable and necessary. Lessor's right of entry shall not obligate inspection of the property by Lessor, nor shall it relieve the Lessee of its duty to maintain the leased property. In the event of emergency due to a release or suspected release of hazardous waste on the property, Lessor shall have the right of immediate inspection, and the right, but not the obligation, to engage in remedial action, without notice, the sole cost and expense of which shall be the responsibility of the Lessee.

6. Indemnification. (select applicable paragraph)

Lessee is a Governmental Agency

To the extent provided by law, Lessee shall indemnify, defend, and hold harmless the Lessor and all of its officers, agents, and employees from any claim, loss, damage, cost, charge, or expense arising out of any act, error, omission, or negligent act by Lessee, its agents, or employees, during the performance of the Lease, except that neither Lessee, its officers, agents, or employees will be liable under this paragraph for any claim, loss, damage, cost, charge, or expense arising out of any act, error, omission, or negligent act by the Lessor or any of its officers, agents, or employees during the performance of the Lease.

When the Lessor receives a notice of claim for damages that may have been caused by the Lessee, the Lessor will immediately forward the claim to the Lessee. Lessee and the Lessor will evaluate the claim and report their findings to each other within fourteen (14) working days and will jointly discuss options in defending the claim. After reviewing the claim, the Lessor will determine whether to require the participation of Lessee in the defense of the claim or to require that Lessee defend the Lessor in such claim as described in this section. The Lessor's failure to promptly notify Lessee of a claim shall not act as a waiver of any right herein to require the participation in or defense of the claim by Lessee. The Lessor and Lessee will each pay its own expenses for the evaluation, settlement negotiations, and trial, if any.

Lessee is not a Governmental Agency

Lessee shall indemnify, defend, save, and hold harmless Lessor, its agent, officers, and employees, from any losses, fines, penalties, costs, damages, claims, demands, suits, and liabilities of any nature, including attorney's fees, (including regulatory and appellate fees), arising out of or because of any acts, action, neglect, or omission by Lessee, or due to any accident, happening, or occurrence on the leased property or arising in any manner from the exercise or attempted exercise of Lessee's rights hereunder whether the same regards person or property of any nature whatsoever, regardless of the apportionment of negligence, unless due to the sole negligence of Lessor.

Lessee's obligation to indemnify, defend and pay for the defenses or at Lessor's option, to participate, and to associate with the Lessor in the defense and trial of any claim and any related settlement negotiations, shall be triggered by the Lessor's notice of claim for indemnification to Lessee. Lessee's inability to evaluate liability or its evaluation of liability shall not excuse Lessee's duty to defend and indemnify within seven days after such notice by the Lessor is given by registered mail. Only an adjudication or judgment after the highest appeal is exhausted specifically finding the Lessor solely negligent shall excuse performance of this provision by Lessee. Lessee shall pay all costs and fees related to this obligation and its enforcement by Lessor. Lessor's failure to notify Lessee of claim shall not release Lessee of the above duty to defend.

7. Insurance. Lessee at its expense, shall maintain at all times during the term of this Lease, public liability insurance protecting Lessor and Lessee against any and all claims for injury and damage to persons and property, and for the loss of life or property occurring in, on, or about the property arising out of the act, negligence, omission, nonfeasance, or malfeasance of Lessee, its employees, agents, contractors, customers, licensees, and invitees. Such insurance shall be carried in a minimum amount of not less than Self-insured per F.S. 768.28 (\$ 0.00) for bodily injury or death to any one person or any number of persons in any one occurrence and not less than Self-insured per F.S. 768.28 (\$ 0.00) for property damage, or a combined coverage of not less than Self-insured per F.S. 768.28 (\$ 0.00). All such policies shall be issued by companies licensed to do business in the State of Florida and all such policies shall contain a provision whereby the same cannot be

anceled or modified unless Lessor is given at least sixty (60) days prior written notice of such cancellation or modification. Lessee shall provide Lessor certificates showing such insurance to be in place and showing Lessor as additional insured under the policies. If self-insured or under a risk management program, Lessee represents that such minimum coverage for liability will be provided for the leased property.

Lessor may require the amount of any public liability insurance to be maintained by Lessee be increased so that the amount thereof adequately protects Lessor's interest. Lessee further agrees that it shall during the full term of this Lease and at its own expense keep the leased property and any improvements thereon fully insured against loss or damage by fire and other casualty. Lessee also agrees that it shall during the full term of this Lease and at its own expense keep the contents and personal property located on the leased property fully insured against loss or damage by fire or other casualty and does hereby release and waive on behalf of itself and its insurer, by subrogation or otherwise, all claims against Lessor arising out of any fire or other casualty whether or not such fire or other casualty shall have resulted in whole or in part from the negligence of the Lessor.

8. Eminent Domain. Lessee acknowledges and agrees that its relationship with Lessor under this Lease is one of landlord and tenant and no other relationship either expressed or implied shall be deemed to apply to the parties under this Lease. Termination of this Lease for any cause shall not be deemed a taking under any eminent domain or other law so as to entitle Lessee to compensation for any interest suffered or lost as a result of termination of this Lease, including any residual interest in the Lease, or any other facts or circumstances arising out of or in connection with this Lease.

Lessee hereby waives and relinquishes any legal rights and monetary claims which it might have for full compensation, or damages of any sort, including special damages, severance damages, removal costs, or loss of business profits, resulting from Lessee's loss of occupancy of the leased property, or any such rights, claims, or damages flowing from adjacent properties owned or leased by Lessee as a result of Lessee's loss of occupancy of the leased property. Lessee also hereby waives and relinquishes any legal rights and monetary claims which it might have for full compensation, or damages of any sort as set out above, as a result of Lessee's loss of occupancy of the leased property, when any or all adjacent properties owned or leased by Lessee are taken by eminent domain proceedings or sold under the threat thereof. This waiver and relinquishment applies whether this Lease is still in existence on the date of taking or sale; or has been terminated prior thereto.

9. Miscellaneous.

a. This Lease may be terminated by Lessor immediately, without prior notice, upon default by Lessee hereunder, and may be terminated by either party, without cause upon Thirty (30) days prior written notice to the other party.

b. In addition to, or in lieu of, the terms and conditions contained herein, the provisions of any Addendum of even date herewith which is identified to be a part hereof is hereby incorporated herein and made a part hereof by this reference. In the event of any conflict between the terms and conditions hereof and the provisions of the Addendum(s), the provisions of the Addendum(s) shall control, unless the provisions thereof are prohibited by law.

c. Lessee acknowledges that it has reviewed this Lease, is familiar with its terms, and has had adequate opportunity to review this Lease with legal counsel of Lessee's choosing. Lessee has entered into this Lease freely and voluntarily. This Lease contains the complete understanding of the parties with respect to the subject matter hereof. All prior understandings and agreements, oral or written, heretofore made between the parties and/or between Lessee and the previous owner of the leased property and landlord of Lessee are merged in this Lease, which alone, fully and completely expresses the agreement between Lessee and Lessor with respect to the subject matter hereof. No modification, waiver, or amendment of this Lease or any of its conditions or provisions shall be binding upon Lessor or Lessee unless in writing and signed by both parties.

d. Lessee shall not sublet the property or any part thereof, nor assign this Lease, without the prior consent in writing of the Lessor; this Lease is being executed by Lessor upon the credit and reputation of Lessee. Acceptance by Lessor of rental from a third party shall not be considered as an assignment or sublease, nor shall it be deemed as constituting consent of Lessor to such an assignment or sublease.

e. Lessee shall be solely responsible for all bills for electricity, lighting, power, gas, water, telephone, and telegraph services, or any other utility or service used on the property.

f. This Lease shall be governed by the laws of the State of Florida, and any applicable laws of the United States of America.

g. All notices to Lessor shall be sent to the address for rent payments and all notices to Lessee shall be sent to: Manatee County Government, Attn.: Property Management Department, 1112 Manatee Avenue East, Bradenton, FL 34206-1000

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed, the day and year first above written.

[Signature]
County of Manatee, Florida

Lessee (Company Name, if applicable)

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By: [Signature]
District Secretary

Billy L. Hattaway, P. E.

Print Name

BY: by and through its BOARD OF COUNTY COMMISSIONERS

John R. Chappie

Print Name

Attest: Dawn Gallon

Title: Chairman

Name/Title: Dawn Gallon, Executive Assl.

Attest: By: Vicki Tressmer DC (SEAL)

Vicki Tressmer DC

Print Name R.B. Shore

LEGAL REVIEW:

[Signature]
District Counsel

HOS
7/24/12

[Signature]

Print Name

Title: Clerk of the Circuit Court



ADDENDUM

This is an Addendum to that certain Lease Agreement between Manatee County and the State of Florida Department of Transportation dated the 1st day of October, 2012. In addition to the provisions contained in said Agreement, the following terms and conditions shall be deemed to be a part thereof pursuant to Paragraph 9 (b) of said Agreement.

Whereas, the property to be conveyed by way of a lease agreement is solely for the purpose of the public's use of a parking area as described as follows: parking area including improvements such as construction of a driveway connection from State Road No. 64, a boardwalk, a sidewalk, storm water pipe, structures and a concrete slurry binder for rip-rap to provide a public access for pedestrians entering the Robinson Preserve Trail from the north side of SR 64.

Manatee County, Lessee, is a qualified self-insured for all liability claims and related expenses pursuant to the Provisions of Florida Statute 768.28 which allows coverage to a maximum amount of \$200,000.00 per person/claim and \$300,000.00 per occurrence and Manatee County Ordinance 03-47. Lessee represents that self-insurance coverage for liability will be provided for the leased property.

Regardless of the purposes(s) for which the Lessor grants the Lessee to use this property, the property's primary purpose will remain as a transportation corridor into perpetuity. All other uses, including the use(s) approved in this lease will remain incidental to the property's primary purpose of a transportation corridor.

[Signature]
County of Manatee, Florida, Lessee

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
By: [Signature] District Secretary
Billy L. Hattaway, P. E. (Printed)

BY: by and through its BOARD OF
COUNTY COMMISSIONERS
(Printed Name)

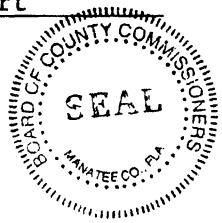
Title: Chairman

Attest: By: [Signature] (SEAL)
Victi Kssner DC (Printed Name)

For: R B Shore
Title: Clerk of the Circuit Court

Attest: [Signature]
Name/Title: DAWN Gallon, Executive Asst.

LEGAL REVIEW:
[Signature] District Counsel
Anthony J. [Signature] (Printed Name)



ASS
11/2/12

EXHIBIT "A"

DESCRIPTION

A PORTION OF THE STATE ROAD NO. 64 RIGHT-OF-WAY LYING IN SECTION 26, TOWNSHIP 34 SOUTH, RANGE 16 EAST, MANATEE COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT A CONCRETE MONUMENT FOUND ON THE SOUTHERLY R/W LINE AT P.I. STATION 213+76.76 OF THE PROJECT CENTERLINE FOR STATE ROAD NO. 64 AS SHOWN AND DESIGNATED ON FLORIDA STATE ROAD DEPARTMENT RIGHT-OF-WAY MAP SECTION 1315-175; THENCE ALONG THE SOUTHERLY R/W LINE OF STATE ROAD NO. 64; S 89°25'24" E, A DISTANCE OF 589.11 FEET TO A POINT OF CURVATURE OF A NON-TANGENT CURVE CONCAVE NORTHWESTERLY HAVING A RADIUS OF 33.00' AND CHORD OF N 32°44'20" E, A DISTANCE OF 35.46'; THENCE DEPARTING SAID R/W LINE IN A NORTHEASTERLY DIRECTION ALONG THE ARC OF SAID CURVE, A DISTANCE OF 37.44 FEET TO A POINT OF TANGENCY; THENCE N 00°14'09" E, A DISTANCE OF 92.10 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 30.00' AND CHORD OF N 34°13'46" W, A DISTANCE OF 33.95 FEET; THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 68°55'50", A DISTANCE OF 36.09 FEET TO A POINT OF NON-TANGENCY; SAID POINT BEING ON THE NORTHERLY R/W LINE OF STATE ROAD NO. 64; THENCE ALONG SAID R/W LINE, N 89°25'24" W, A DISTANCE OF 53.36 FEET; THENCE DEPARTING THE NORTHERLY R/W LINE OF STATE ROAD NO. 64, S 00°34'36" W, A DISTANCE OF 23.00 FEET; THENCE S 89°25'24" E, A DISTANCE OF 52.71 FEET; THENCE S 00°14'09" W, A DISTANCE OF 98.00 FEET; THENCE N 89°25'24" W, A DISTANCE OF 587.99 FEET; THENCE S 00°34'36" W, A DISTANCE OF 29.00 FEET TO THE POINT OF BEGINNING.

CONTAINING A DESCRIBED AREA OF 20,958 SQUARE FEET OR 0.48 ACRES MORE OR LESS.



RUSSELL P. HYATT, P.S.M.
Florida Surveyor's Reg'n. No. LS 5303
NOT VALID WITHOUT THE SIGNATURE AND
THE ORIGINAL RAISED SEAL OF A FLORIDA
LICENSED SURVEYOR AND MAPPER.

REVISED PER FDOT COMMENTS 3/21/2011
REVISED PER MANATEE COUNTY 12/23/2010

PERICO BAYOU FDOT LEASE AREA
MANATEE COUNTY, FLORIDA

Hyatt Survey Services, Inc.

LB No. 7203 Geographic Data Specialists
11007 8th Avenue East Bradenton, Florida 34212
Phone (941) 748-4693 Fax (941) 744-1643

JOB NUMBER
09-1473

SECTION 26, TOWNSHIP 34 SOUTH, RANGE 16 EAST

SCALE
N/A

DATE
11/23/10

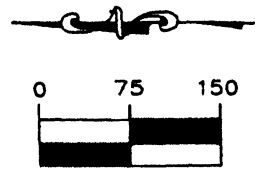
DRAWN BY
JM

FILE NAME
FDOT LEASE

SHEET
1 OF 2

PERICO
 RADIUS 30.00'
 ARC 36.09°
 DELTA 68°55'50"
 CHORD N 34°13'46" W 33.95'
 POINT OF NON-TANGENCY
 N 89°25'24" W 53.36'
 NORTHERLY R/W LINE
 S.R.D. R/W MAP SECTION 1315-175

BAYOU
 RADIUS 33.00'
 ARC 37.44°
 DELTA 65°00'17"
 CHORD N 32°44'20" E 35.46'
 POINT OF NON-TANGENT CURVATURE



150'
 218+00
 "PERICO SHORES"

S 89°25'24" E 589.11'
 SOUTHERLY R/W LINE
 S.R.D. R/W MAP SECTION 1315-175

L1	N 00°14'09" E	92.10'
L2	S 00°34'36" W	23.00'
L3	S 89°25'24" E	52.71'
L4	S 00°14'09" W	98.00'
L5	N 89°25'24" W	587.99'
L6	S 00°34'36" W	29.00'

EXISTING R/W LINE
 217+00
 216+00
 OLD PALMA SOLA ROAD
 "PERICO SHORES"
 P.B. 27, PGS 131-132

LEASE AREA
 20,958 SF ±
 (0.48 AC ±)

P.O.B.
 P.I. STA 213+76.76 75.00' RIGHT
 PER S.R.D. R/W MAP SECTION 1315-175
 CM FOUND @ P.I.

PI
 214+00
 107TH COURT WEST

"MAGAZINE PERICO, L.C."
 O.R.B. 2115 PAGES 6382-6387

"PERICO SHORES"
 P.B. 27, PGS 131-132

ABBREVIATIONS

P.O.B.	POINT OF BEGINNING
R/W	RIGHT-OF-WAY
CM	CONCRETE MONUMENT
O.R.B.	OFFICIAL RECORD BOOK
P.B.	PLAT BOOK
P.I.	POINT OF INTERSECTION
AC	ACRES
SF	SQUARE FEET
S.R.D.	STATE ROAD DEPARTMENT

"PERICO ISLAND CONDOMINIUMS,
 FIRST ADDITION"
 CPB 19, PGS 147-154

NOTES

1. THIS IS NOT A BOUNDARY SURVEY.
2. BEARINGS ARE BASED ON A PROJECTION OF THE STATE PLANE COORDINATE SYSTEM OF FLORIDA WEST ZONE (NAD 83/07 ADJUSTMENT).

REVISED PER FDOT COMMENTS 3/21/2011
 REVISED PER MANATEE COUNTY 12/23/2010

PERICO BAYOU FDOT LEASE AREA
 MANATEE COUNTY, FLORIDA

Hyatt Survey Services, Inc.
 LB No.: 7203 Geographic Data Specialists
 11007 8th Avenue East Bradenton, Florida 34212
 Phone (941) 748-4693 Fax (941) 744-1643

JOB NUMBER 09-1473	SECTION 26, TOWNSHIP 34 SOUTH, RANGE 16 EAST	SCALE 1"=150'	DATE 11/23/10	DRAWN BY JM	FILE NAME FDOT LEASE	SHEET 2 OF 2
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Area to be leased from FDOT
for Connection of Parking Lot
to the Robinson Preserve Trail

Perico Bayou Parking Area
to be constructed for
Robinson Preserve Trail

Section 26, Township 34 S, Range 16 E
Commissioner: Michael Gallen



MANATEE AVE

WATERBIRD

WATERBIRD

PERICO

BRISTOL BAY DR