

STANDARD GENERAL ENVIRONMENTAL RESOURCE PERMIT
TECHNICAL STAFF REPORT
July 23, 2008
APPLICATION #: 40-069-76466-2

DATE RECEIVED:	DATE COMPLETED:	21ST DAY:	28TH DAY:
February 27, 2008	July 10, 2008	July 31, 2008	August 7, 2008

Applicant: Lake County Dept of Public Works
C/O James A Stivender Jr PE
437 Ardice Avenue
Eustis, FL
32726
(352) 483-9005

Consultant: HNTB Corporation
C/O Karen Van den Avont PE
300 Primera Blvd Ste 200
Lake Mary, FL
32746
(407) 805-0355

Project Name: South Hancock Road
Project Acreage: 29.110
Special Basin Criteria: Palatlakaha River Hydrologic Basin
Receiving Water Body: Lake Louisa **Class:** III OFW.
Unnamed Wetland III Fresh.
County: Lake
Correct Fee Submitted: Yes **Amount Received:** \$1,000.00

Authority: 40C-4.041(2)(b)4

Type of Treatment: Retention, Wet Detention, Swales
Type of Development: Roadway
Type of System: New Surface Water Management System
Final O&M Entity: Lake County Department of Public Works
Pre/Post Peak Rate Attenuation Provided: Yes
Pre/Post Volume Attenuation Provided: Yes
Mean Annual Storm Attenuation Provided: Yes
Recovery of Water Quality Vol. Within Req. Time: Yes
Recovery of Peak Attenuation Vol. Within Req. Time: Yes
Interested Parties: No
Objectors: No

Authorization Statement

A Permit Authorizing:

Construction and operation of a Surface Water Management System for a 29.11-acre roadway expansion project to be known as South Hancock Road – U.S. 27 to Hartwood

Marsh Road. This permit does not authorize any work in, on, or over surface waters or wetlands.

Staff Comments:

The proposed project is located south of the intersection of the existing South Hancock Road and Hartwood Marsh Road and north of Five Mile Road, extending west to U.S. 27 in Clermont, Lake County. The project is located within the nested Palatlahaha River Hydrologic Basin of the Southern Ocklawaha River Hydrologic Basin. The receiving water bodies include Lake Louisa and an unnamed herbaceous wetland west of Lake Louisa and another herbaceous land-locked wetland north of Five Mile Road.

With this application for authorization, the applicant proposes to construct an extension of South Hancock Road that will include a four lane divided urban roadway with bicycle lanes, sidewalks, and a multipurpose trail, for a total distance of 1.333 miles. The proposed extension will dovetail with the existing portion of South Hancock Road located at its intersection with Hartwood Marsh Road.

Currently, the South Hancock Road corridor can be characterized as predominantly undeveloped with surrounding pasture and forested areas that ultimately drain to Lake Louisa and a land-locked wetland north of Five Mile Road.

For the post-development Basin 1 (from STA. 400+65.00 to STA. 426+04.00), Basin 2 (from STA. 426+04.00 to STA. 462+75.00), and Basin 3 (from STA. 458+11.00 to STA. 470+55.00) portions of the proposed roadway, the applicant proposes to construct a new four lane divided urban roadway with bicycle lanes, sidewalks, and a multipurpose trail.

For post-development Basins 1 and 2, management of surface water runoff will be accomplished via a combination of inlets, stormsewers, swales, one wet detention (Pond 1), and one dry retention (Pond 2) system.

For post-development Basin 3 (from STA. 458+11.00 to STA. 470+55.00), surface water runoff will be routed to an off-site, joint use treatment and attenuation system (Pond 2 Hartwood) associated with the Hartwood Marsh Road-Phase I development (pending District Permit No. 40-069-114354-1). The Pond 2 Hartwood system is located on the vacant parcel owned by the First Baptist Church of Clermont and has been designed to accommodate the water quality and quantity requirements from the post-development Basin 3, as well as the Church property when it is fully developed, assuming a maximum imperviousness of 80%. A condition of pending District Permit No. 40-069-114354-1 will require that prior to the placement of any impervious surfaces within the future First Baptist Church of Clermont property, the appropriate modification to that permit be obtained from the District.

The proposed surface water management system is designed to attenuate the peak rates of discharge for the mean annual, the 10-year, 24-hour, and the 25-year, 24-hour storm events. Sufficient storage is provided within the Basin 2 surface water management system to retain the pre-post runoff volume difference generated from the 25-year 96-hour storm event. The applicant has demonstrated that the storage capacity of the Basin1 surface water management system will be recovered within 14 days following the design storm event and that the Basins 1 and 2 systems will provide on-line treatment and recovery of the required pollution abatement volume pursuant to OFW criteria and Section 40C-42.026, F.A.C. The Basin 2 system does not completely recover the storage volume within 14 days; however, it has been sized to store the runoff from an additional 25-year/96-hour storm event.

The applicant has provided assurances that this project, as proposed, is consistent with the design criteria and objectives of the District set forth in Chapters 40C-4, 40C-40 and 40C-42, F.A.C.

Site Description:

The predevelopment site conditions of the 29.11-acre project area consist entirely of uplands. These communities include a slash pine plantation, areas of upland hardwood forests that fringe the offsite herbaceous wetlands and former pasturelands that are grassed with occasional trees and shrubs. The work proposed is adjacent to two herbaceous wetland systems. The wetland system adjacent to the proposed Pond 2 has been steeply rim-ditched along the eastern boundary, but otherwise provides good wetland functions and values. The wetland system adjacent to Pond 1 is located within the Water Conserv II – Site 2 property, which is jointly owned by the city of Orlando and Orange County for preservation and also provides good wetland functions and values.

Impacts:

Subsection 12.2.2, ERP A.H., states that an applicant must provide reasonable assurances that a regulated activity will not impact the values of wetland and other surface water functions so as to cause adverse impacts to: (a) the abundance and diversity of fish, wildlife and listed species; and (b) the habitat of fish, wildlife and listed species.

The applicant is not proposing impacts to wetlands or other surface waters.

Secondary impacts:

Subsection 12.2.7, ERP A.H., contains a four part criterion which addresses additional impacts that may be caused by a project: (a) impacts to wetland functions that may result from the intended use of a project; (b) impacts to the upland nesting habitat of listed species that are aquatic or wetland dependent; (c) impacts to significant historical and archaeological resources that are closely linked and causally related to any proposed dredging or filing of wetlands or other surface waters; and (d) wetland impacts that may be caused by future phases of the project or activities that are closely linked and causally related to the project.

The proposed activities were assessed for the potential to result in unacceptable secondary impacts, as defined in subsection 12.2.7, A.H. There are no wetlands or other surface waters within the project area. Where possible, the project has been designed to maintain 25-foot average, 15-foot minimum upland buffers adjacent to the herbaceous wetlands to provide reasonable assurance that no secondary impacts will result from the

proposed works. Construction along the southernmost wetland (wetland 2) will result in a 10-foot buffer for approximately 60 feet along the length of the proposed right-of-way. However, handrails will be installed along the sidewalk bordering the gravity wall and additional buffer acreage is provided on each side to maintain a 25-foot average upland buffer to help prevent secondary impacts to the offsite herbaceous wetlands located within the Water Conserv II – Site 2 property. No conservation easement is proposed. No evidence was observed that would indicate that the uplands on the site are being utilized by aquatic and wetland dependent species for nesting and denning. There are no known historical or archaeological resources of significance on, or adjacent to the site, that could be adversely affected by the proposed activities. No known future phases are anticipated. Therefore, it has been determined that the applicant has provided reasonable assurances that the proposed activities will not result in unacceptable secondary impacts, as defined in subsection 12.2.7, A.H.

Elimination/Reduction of Impacts:

Pursuant to subsection 12.2.1, ERP A.H., the applicant must consider practicable design modifications, which would reduce or eliminate adverse impacts to wetlands and other surface waters. A proposed modification which is not technically capable of being done, is not economically viable, or which adversely affects public safety through endangerment of lives or property is not considered "practicable".

Not applicable; the applicant is not proposing impacts to wetlands or other surface waters.

Mitigation:

The applicant is not proposing any impacts to wetlands or other surface waters; therefore, no mitigation is warranted.

Cumulative Impacts:

Subsection 12.2.8, ERP A.H., requires applicants to provide reasonable assurances that their projects will not cause unacceptable cumulative impacts upon wetlands and other surface waters within the same drainage basin as the project for which a permit is sought. This analysis considers past, present, and likely future similar impacts and assumes that reasonably expected future applications with like impacts will be sought, thus necessitating equitable distribution of acceptable impacts among future applications. Mitigation, which offsets a projects adverse impacts within the same basin as the project for which a permit is sought is presumed to not cause unacceptable cumulative impacts.

Not applicable; the applicant is not proposing impacts to wetlands or other surface waters.

Summary: The proposed project is consistent with the wetland review criteria in sections 12.2 – 12.3.8, A.H. The applicant has provided reasonable assurance that the proposed project is consistent with the design criteria and objectives of the District as set forth in Chapters 40C-4, 40C-41, and 40C-42, F.A.C., and that the proposed project meets all applicable conditions for permit issuance pursuant to sections 40C-4.301, and 40C-4.302, F.A.C.

Conditions for Application Number 40-069-76466-2:

ERP General Conditions by Rule (October 03, 1995):

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

ERP/MSSW/Stormwater Special Conditions (November 09, 1995):

1, 4, 10, 13

Other Conditions:

1. The proposed surface water management system must be constructed and operated as per plans received by the District on July 10, 2008.
2. This permit does not authorize any work in, on, or over wetlands or other surface waters.
3. The operation and maintenance entity shall inspect the surface water management system within one year after the completion of construction and every year thereafter to determine if the system is functioning as designed and permitted. The operation and maintenance entity must maintain a record of each required inspection, including the date of the inspection, the name, address, and telephone number of the inspector, and whether the system was functioning as designed and permitted, and make such record available for inspection upon request by the District during normal business hours.

If at any time the system is not functioning as designed and permitted, then within 14 days the entity shall submit an Exceptions Report on form number 40C-42.900(6), Exceptions Report for Stormwater Management Systems Out of Compliance.

Reviewers: Gayle Albers
 Ruth Grady