

FLORIDA DEPARTMENT OF TRANSPORTATION
SECTION 4(F) DETERMINATION OF APPLICABILITY

850-050-45
Environmental
Management
06/17

Project Name:	SR 869/SW 10th Street from SR 845/Powerline Road to West of Military Trail		
FM#:	439891-1-22-02	ETDM#:	14291
Project Review Date:	5/4/2018	FAP#:	TBD
FDOT District:	4		
County(ies):	Broward County		

A DOA IS REQUIRED FOR EACH SECTION 4(f) PROPERTY AND PROPOSED ALTERNATIVE.

Project Description including Section 4(f) Specific Information:

The Florida Department of Transportation (FDOT) is evaluating alternatives to improve SR 869 (SW 10th Street) from Sawgrass Expressway / Florida's Turnpike to west of I-95, a distance of approximately 3.0 miles. The project is located in Broward County, Florida and is contained within the municipality of Deerfield Beach. Attachment 1 shows the limits of the SW 10th Street Connector PD&E Study.

SW 10th Street currently consists of six lanes (three in each direction) from Florida's Turnpike to SR 845 (Powerline Road), four lanes (two in each direction) from Powerline Road to east of Military Trail, and five lanes (two westbound and three eastbound) from west of Military Trail to I-95. This segment of SW 10th Street is functionally classified as a Divided Urban Principal Arterial and has posted speed limits of 45 miles per hour from Florida's Turnpike to Military Trail, and 40 miles per hour from Military Trail to I-95. The access management classification from Florida's Turnpike to Powerline Road is Class 1. East of Powerline Road, the access management classification is Class 3.

SW 10th Street is an east-west Principal Arterial that connects three limited access facilities: Florida's Turnpike, Sawgrass Expressway, and I-95. SW 10th Street is part of the state's Strategic Intermodal System (SIS) and the National Highway System (NHS). SW 10th Street from Florida's Turnpike to I-95 is a missing link in the existing and planned regional express lanes system network. This study is proposing to add additional lanes in the corridor for the purpose of closing this gap and providing a continuous link in the managed lanes network that will be separate from the local SW 10th Street facility. In addition, SW 10th Street is designated as an evacuation route.

The proposed improvements are intended to reduce the amount of traffic on local SW 10th Street by allowing vehicles to bypass the area by utilizing the managed lane facility. The ability to provide relief for local traffic is a component of the improved connectivity between the three limited access facilities by providing dual systems (Local Access and Limited Access) within the SW 10th Street right-of-way. Because SW 10th Street is impacted by three major limited access facilities, local traffic relief is necessary before future improvements to the three limited access facilities are implemented. Improvements are planned for the interchange at the Sawgrass Expressway / Florida's Turnpike to the west and I-95 at SW 10th Street interchange to the east.

There are two parks within the study limits: Quiet Waters Park and Crystal Heights Park. This DOA form addresses Quiet Waters Park. See enclosed map (Attachment 2) showing each resource in relationship to the proposed project.

Type of Property

Check all that apply:

- Public Parks and Recreation Areas
- Wildlife and Waterfowl Refuges
- Historic Sites

Description of Property: Quiet Waters Park is a 431.4-acre regional park owned and managed by Broward County Parks and Recreation. Amenities include a marina, mountain bike trails, cable skiing, fishing, campgrounds, nature trails, restrooms and showers, volleyball and basketball courts, food concessions, picnic shelters and open picnic areas, a park and campground office, a maintenance facility and a butterfly and bird sanctuary building. SkiRixen USA operates a cable water ski business and Bike America has a facility on-site that includes bike rentals, special bicycle events, bicycle repair and safety checks, and a retail store. Of these amenities, a series of mountain bike trails, a lake used for skiing and the maintenance building are adjacent to the SW 10th Street corridor.

Criteria of Selected Property Type(s):

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Public Parks and Recreation Areas

- o Must be publicly owned which refers to ownership by local, state or federal government
 - Ownership can also include permanent easements and long-term lease agreements
- o Must be open to the public during normal hours of operation
- o The major purpose must be for park or recreation activities
- o Must be designated or function as a significant park or recreational area.
 - Applies to the entire park or recreation area not just a specific feature

Wildlife and Waterfowl Refuge

- o Must be publicly owned which refers to ownership by local, state or federal government;
 - Ownership can also include permanent easements and long-term lease agreements;
- o Must be open to the public but **refuges are able to restrict access for the protection of refuge habitat and species;**
- o The major purpose must be for wildlife and waterfowl refuges;
- o Must be designated or function as a significant as a wildlife and waterfowl refuges; -
 - Applies to the entire wildlife and waterfowl refuges not just a specific feature

Historic Sites- includes historic buildings, historic transportation facilities, archeological sites, traditional cultural places, historic & archeological districts and historic trails.

- o Must be of national, state or local significance and it must be eligible for listing or is listed on the National Register of Historic Places (NRHP); or
- o If a site is determined not to be eligible OEM may determine that the application of Section 4(f) is otherwise appropriate when an official (such as the Mayor, president of a local historic society) provides information to support that the historic site is of local importance.

Does the identified resource meet all of the criteria for the selected property type?

Yes, continue to complete the form

No, STOP Section 4(f) does not apply

Identify the Official(s) with Jurisdiction (OWJ) contacted: Broward County Parks and Recreation

Date correspondence sent to the OWJ: 7/26/2018

Has the Official(s) with Jurisdiction (OWJ) responded?

Yes No

Has the 30 day response period passed since the initial OWJ correspondence was sent?

Yes No

Please answer the questions below about the resource:

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Note: A potential source for this information can include the property management plan, resource website and/or communications with the OWJ (be sure to document these communications in writing).

What is the size and location of the property (include a map of the resource)?

Quiet Waters Park is a 431.4-acre regional park located west of Powerline Road, east of the Florida's Turnpike, south of Hillsboro Boulevard, and north of SW 10th Street, within the City of Deerfield Beach. See Attachment 3.

Who/what organization owns/manages the property?

Quiet Waters Park is owned and maintained by Broward County.

What is the primary function (activities, features and attributes) within the meaning of Section 4(f) of the facility or property?

The primary function is to provide active recreation including mountain biking, hiking, skiing, fishing, camping, nature trails, kayaking, canoeing, paddelboating, volleyball, and basketball, much of which is associated with the large lake features throughout the property. There are also large picnic facilities from 12 to 400 person capacity that can be rented for events.

Please describe the location of available appurtenances and facilities (e.g. tennis courts, pools, shelter houses, sports fields, beaches) on the property:

The following is a listing of facilities on the property:

Marina with boat rentals at the northwestern section of the park.

Two playgrounds and a skatepark are located at the northeast section of the park.

Bike America building at the northeast section of the park.

Bob Harbin Butterfly & Bird Sanctuary at the northeast section of the park.

Ski Rixen USA, which provides cable water skiing, is located in the eastern-central part of the Park.

A campground (with 25 Rent-a-Tents and two tepees) is located just south of the Ski Rixen USA center.

Campground areas include grills, picnic tables, fire rings, garbage cans and electricity.

Facilities with restrooms and hot showers are included in the campground area.

An office building is located just south of the campground.

The Splash Adventure Water Park, a children's interactive water playground, in the southern section of the park.

A swimming beach is located just south of the Splash Adventure Water Park.

The maintenance yard is located in the southeast corner of the Park.

Other amenities found throughout the park include:

Lakes for fishing, canoeing and kayaking.

A 7.6 mile mountain bike trail with beginner, intermediate and advanced segments.

Rental picnic shelters including one interpretative shelter (12 person capacity), three small shelters (36 person capacity), six medium shelter (50 person capacity), one extra-large shelter (162 person capacity) and one corporate (400 person capacity) with volleyball area, horseshoe area and restrooms.

Basketball and volleyball courts

A covered playground

A one-mile nature trail with interpretive signs identifying the flora and fauna.

Seven parking lots.

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Of these amenities, a series of mountain bike trails, a lake used for skiing and the maintenance building are adjacent to the SW 10th Street corridor. All other amenities are further inside the park and will not be affected by this project.

In addition to the existing amenities, Broward County has several planned amenities near SW 10th Street and Powerline Road including an expansion of the water park, another playground, another office space, and community gardens. Though these planned recreational facilities are near SW 10th Street, the proposed improvements would not impact these future facilities. See Attachment 4.

What is the function of/ or the available activities on the property?

The function of the available activities in this regional park is to provide recreational opportunities for the public.

Access and Usage of the property by the Public:

Visitation rate on weekdays is 1,500 people and on weekends is approximately 4,000 people. During the seven weeks of the Renaissance Festival, the visitation rate is approximately 10,000 to 14,000 people per weekend. The public accesses the Park through the main entrance along Powerline Road, just north of SW 10th Street.

Relationship to other similarly used lands/facilities in the vicinity:

There are other public parks in the vicinity of Quiet Waters Park, including Trailhead Park, Independence Bay Linear Park, and Crystal Heights Parks (North, South, Middle, 1, 2, 3 and 4); all located south of SW 10th Street. These other parks are more neighborhood parks with playgrounds and walking paths. According to Broward County Parks staff, Quiet Waters does not get a lot of bike or pedestrian traffic from the south and only a small amount of pedestrian traffic from mostly Century Village (east of Powerline Road and north of SW 10th Street). Thus, Quiet Waters is a regional park that is not similar, or related, to other community parks.

Are there any unusual characteristics of the property that either limit or enhance the value of the resource? If so please explain:

This Park has the only cable water skiing system offered in Broward County and offers the longest running cable park in Florida. This park also has the only dog water park in Broward County. Also as described above, this park provides a wide variety of recreational opportunities. The mountain bike trails, according to Broward County Parks, are maintained by local volunteers. There are five well sites used by Broward County Water and Wastewater Services as a water supply resource.

Describe project activities that could potentially "use" the resource:

Two build alternatives are currently being evaluated near Quiet Waters Park along the same alignment. The North Alignment Alternative includes two types of roadway facilities: a managed lane facility and a local facility. The North Alignment Alternative locates the managed lanes on the north side of the right-of-way with the local lanes placed south of the managed lanes. One build alternative includes a depressed managed lane section under Powerline Road and the other an overpass at Powerline Road of the managed lanes. The depressed managed lane section transitions to an at-grade section just east of the Sawgrass Expressway to meet the existing lanes. The managed lanes connect the Turnpike / Sawgrass Expressway to I-95 with a high speed, limited access facility. Local SW 10th Street is planned as a lower speed arterial primarily serving businesses and communities along the corridor. The local SW 10th Street roadway is at-grade in both alternatives.

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The proposed improvements will not require permanent right-of-way from the Quiet Waters Park. Due to the depressed section under Powerline Road, however, temporary construction easements (TCEs) will be required. A depressed section requires excavation to a depth of 40 feet and a cross section width of approximately 100 feet. Cranes will drive sheet piling deep into the ground to allow for excavation. Due to the depth of the excavation and the lateral forces exerted on the sheet piling, soil anchors are used to hold the sheet piling in place during construction. The soil anchors extend perpendicular from the sheet piling for a length of approximately 75 feet, which extends into Quiet Waters Park and necessitates the need for a TCE. Impacts to Quiet Waters Park are limited to temporary subsurface impacts due to these soil anchors, and no trenching or ground disturbance in the park is required. The maximum TCE area for this subsurface impact is approximately 9,100 square feet. Following construction, the soil anchors are no longer needed and can remain buried in place to avoid additional impacts to the park in an attempt to remove them.

Constructing a depressed section beneath Powerline Road requires the intersection to be temporarily relocated twice to construct the depressed section in halves. The construction phasing of Powerline Road could be completed in four general phases:

- Phase I - Relocate utilities and construct temporary pavement in four quadrants of intersection;
- Phase II – Build depressed section west of Powerline Road and relocate Powerline Road to the east;
- Phase III – Build depressed section east of Powerline Road and relocate Powerline Road to the west; and
- Phase IV – project is complete.

The TCE required for the Powerline Road intersection is in the northwest corner of the intersection and impacts a maximum of approximately 70,000 square feet of Quiet Waters Park. This area of the Park does not contain any of the amenities listed herein. The area of Quiet Waters Park impacted by the temporary relocation of Powerline Road will be returned to its original condition after construction is completed. (See Attachment 5 - North Alternative TCE Impacts). The overpass alternative at Powerline Road is not anticipated to require any TCE's from the Park.

If applicable, give a general description of the history of the Historic Site, Archaeological Site or Historic District:

Not Applicable.

Based on the above information the recommended level of Section 4(f) evaluation for this property is:

Select the level of Section 4(f) evaluation: No Use

Reason the selected level is appropriate:

Although the proposed project will require construction easements (sub-surface and surface) from Quiet Waters Park and access to the park may be temporarily impacted, but not closed, due to maintenance of traffic during construction, no recreational facilities will be negatively impacted from the project and no permanent right-of-way acquisition is required. These activities are temporary in nature, result in only minimal impact and do not result in permanent adverse physical impact nor interfere with protected activities, features or attributes of the property.

Supporting Documentation

The following items **must** be attached to this form:

1. A map of the resource based on the guidelines in the PD&E Manual Part 2, Chapter 7, including the proposed alternative being evaluated.

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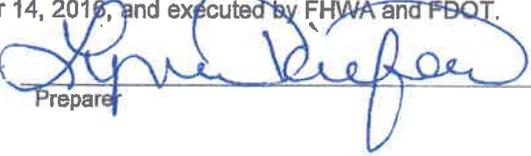
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2. Statement of Significance from OWJ or FDOT's presumption of significance.

3. Determination of Eligibility or Listing in the National Register of Historic Places, Archaeological Site (*include criterion of eligibility*) or a Historic District if applicable.

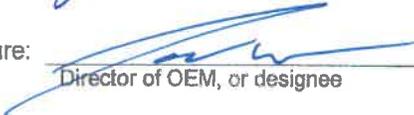
Signatures

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by FDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 14, 2018, and executed by FHWA and FDOT.

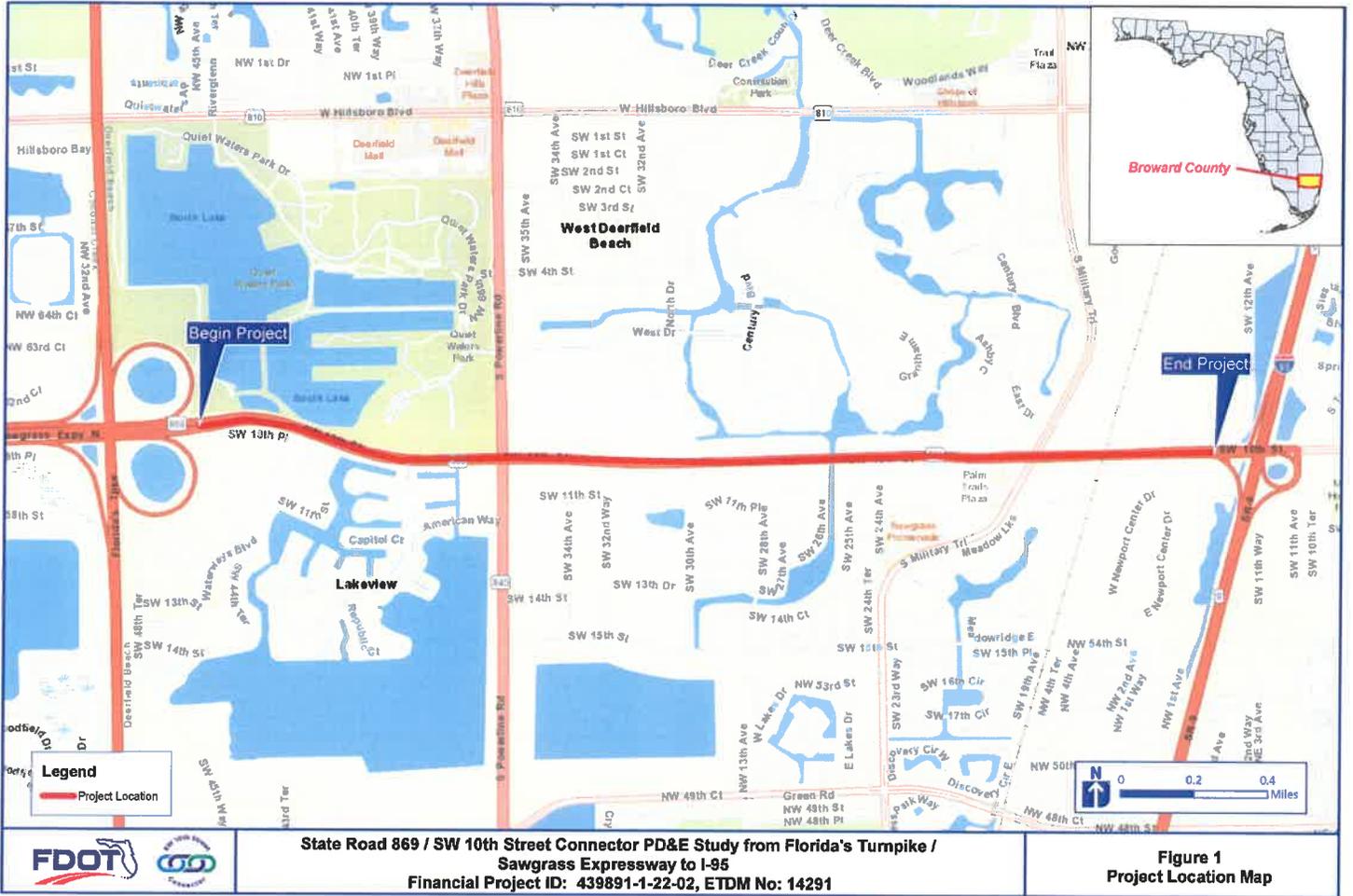
Signature:  : 12/13/2018
Preparer Date

Signature:  12/14/2018
Environmental Manager, or designee [Click here to enter a date.](#)
Date

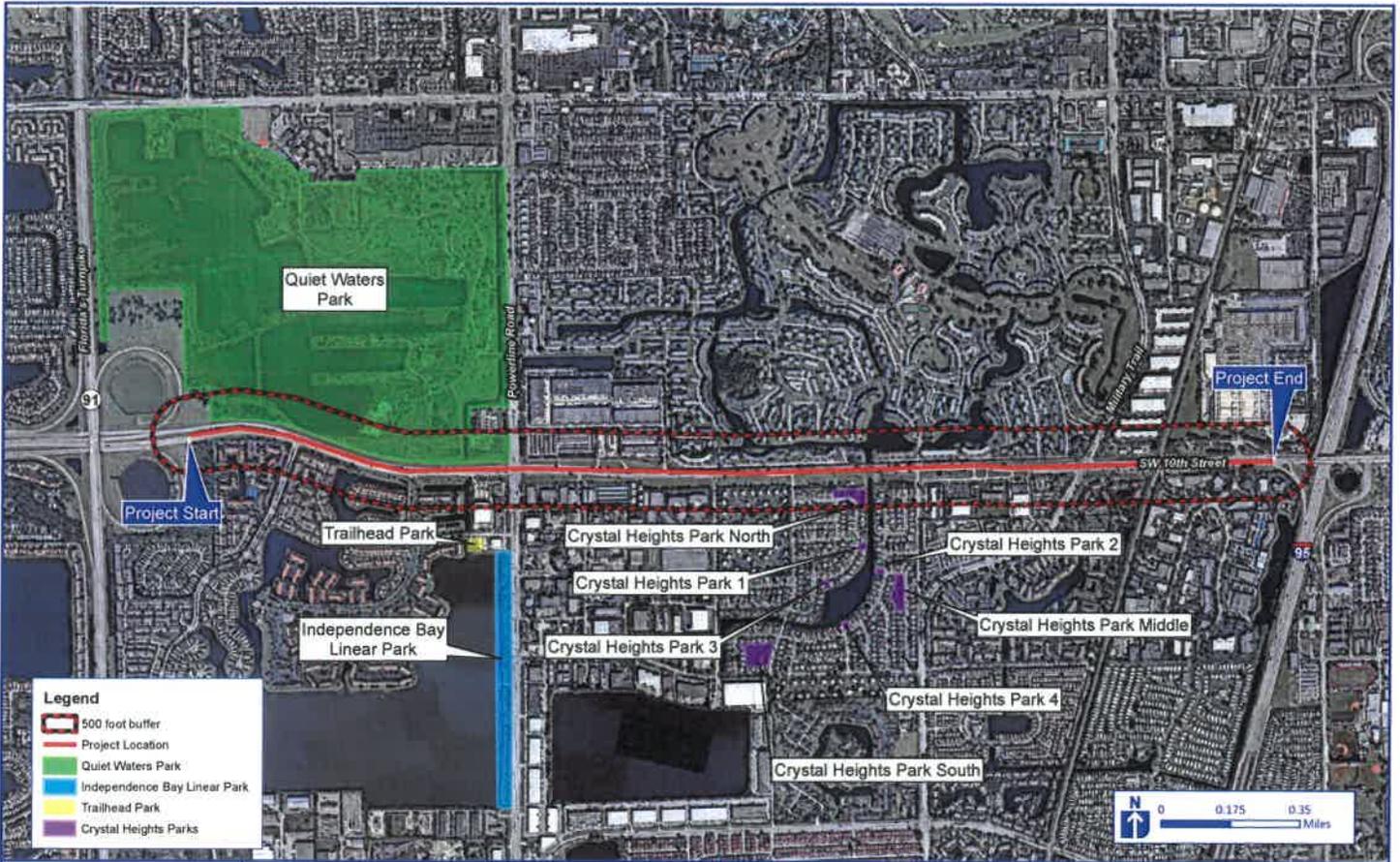
OEM
Concurrence:  12/14/2018

Signature:  12/17/18
Director of OEM, or designee [Click here to enter a date.](#)
Date

ATTACHMENT 1 – LOCATION MAP



ATTACHMENT 2 – SECTION 4(f) RESOURCES MAP



State Road 869 / SW 10th Street Connector PD&E Study from Florida's Turnpike /
 Sawgrass Expressway to I-95
 Financial Project ID: 439891-1-22-02, ETDM No: 14291

Figure 2
 Section 4(f) Resources Map

ATTACHMENT 3 – QUIET WATERS PARK AMENITIES MAP



Legend

- Project Location
- 500-foot buffer
- Quiet Waters Park



State Road 869 / SW 10th Street Connector PD&E Study from Florida's Turnpike / Sawgrass Expressway to I-95
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Figure 3
 Quiet Waters Site and Amenities Map

ATTACHMENT 4 – QUIET WATERS MASTER PLAN

**Parks & Recreation
Geographic Information System**

Broward County Board of County Commissioners
Parks and Recreation Division
Natural Resources and Land Management Section



**Quiet Waters
Master Plan**

Legend

- Park Boundaries
- Driveway
- Trail



This map is for planning purposes only.
For more information please call the
Environmental Section at 954.357.8120



ATTACHMENT 5 – TCE IMPACT MAPS FOR NORTH ALIGNMENT ALTERNATIVES



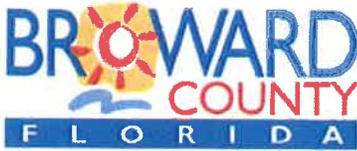

SW 10th Street / SR 569 from Powerline Road to West of Military Trail
 Project Development and Environment Study
 Financial Project ID: 439891-1-22-02, ETDM No: 14291

	EXISTING RIGHT-OF-WAY		PROPOSED 2ND LEVEL BRIDGE		PROPOSED TRAFFIC SIGNAL
	EXISTING PROPERTY LINE		PROPOSED DE-PRESSED MANAGED LANES		
	LIMITED ACCESS RIGHT-OF-WAY		PROPOSED LOCAL SW 10TH ST		
	PROPOSED RIGHT-OF-WAY		TEMPORARY EASEMENT		

FIGURE 5
NORTH ALIGNMENT

SHEET NO.

ATTACHMENT 6 – Statement of Significance (Broward County)



PARKS AND RECREATION DIVISION • Administrative Offices
950 N.W. 38th St. • Oakland Park, FL 33309-5982 • 954-357-8100 • TTY 954-537-2844 • FAX 954-357-5991

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Accredited by the Commission for Accreditation of Park and Recreation Agencies (CAPRA)*

August 24, 2018

Mr. Robert E. Bostian, Jr., P.E. Project Manager
Florida Department of Transportation, District Four
3400 West Commercial Boulevard
Ft. Lauderdale, FL 33309

Subject: Section 4(f) State of Significance for Parks
SR 869/SW 10th Street from Florida's Turnpike (Sawgrass Expressway) to I-95
Project Development & Environment Study
FM Number: 439891-1-22-02
ETDM Number: 14291
County: Broward

Dear Mr. Bostian:

Regarding your interest in the following Broward County Park, Quiet Waters Park (600 Quiet Waters Park Road) as it relates to the above referenced Project Development and Environment (PD&E) Study, I submit the following information for use in the Section 4(f) Determination of Applicability. Quiet Waters Park is a County owned park available to the public for recreational use. Some of the unique features at this Broward County regional park are nature trails, campgrounds, water park, cable water-skiing, dog water park, marina, mountain bike trails, and basketball courts. The park is also home to the Renaissance Festival, one of South Florida's most popular annual festivals.

According to the FDOT PD&E Manual, Part 2, Chapter 7, a Statement of Significance is necessary from the Office with Jurisdiction over Section 4(f) resources. The manual states that "Significance means that in comparing the availability and function of the recreation, park, or wildlife and waterfowl refuge area with the recreational, park, and refuge objectives of that community, the land in question plays an important role in meeting those objectives." I represent the Office with Jurisdiction and attest that the above referenced park plays an important role in meeting the park objectives of the surrounding community and meets the requirement of a significant Section 4(f) resource.

Mr. Robert E. Bostian, Jr., P.E. Project Manager
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If you should have any further questions or comments, please contact me at (954) 357-8106.

Sincerely yours,



Dan West
Director of Parks and Recreation Division
Broward County

cc: Gayle H. Preston, Broward County Parks and Recreation
Linda Briggs-Thomas, Broward County Parks and Recreation
Erik Westberg, Broward County Parks and Recreation
John Caprio, Broward County Parks and Recreation
Ann Broadwell, FDOT District Four
Lynn Kelley, FDOT District Four
Cassie Piche, RS&H, Inc.
Lisa Stone, Kimley-Horn & Associates, Inc.