

DRAFT
DECEMBER 5, 2018
INDIAN TRAIL IMPROVEMENT DISTRICT
BOARD OF SUPERVISORS
AGENDA MEMORANDUM

TO: Board of Supervisors / Rob Robinson / Jay Foy, P.E.

FROM: Joseph W. Capra, P.E., CAPTEC Engineering, Inc.

DATE: December 5, 2018 for the December 12, 2018 Board of Supervisors Meeting Consideration

SUBJECT: Item 16.6.1 - Traffic Calming - District Engineer Update

Request

- 1) The Board to consider a **Stop Sign Study** throughout the District.
- 2) The Board to consider requesting that Palm Beach County to install **LED Stop Signs** at the Hall Boulevard and Northlake Boulevard Intersection.

Background / Brief History

In 2014, the Indian Trail Improvement District (ITID) Board approved CAPTEC Engineering, Inc., to perform a Traffic Calming Study in response to deadly intersection accidents.

In 2015, CAPTEC presented the ITID Board with various Master Traffic Calming options such as raised medians, traffic circles, speed tables, mid-block islands, diversions, and rumble strips.

In 2016:

- CAPTEC completed a NW Quadrant Map and gave various presentations in response to future traffic impacts, and recent accidents. There were discussions on traffic calming devices such as traffic diversion medians, speed tables, raised medians at side streets, and 4-way stop signs with beacons and rumble strips.
- Through the Palm Beach County Transportation Planning Agency (TPA), the ITID submitted the FDOT Transportation Alternatives Program (TAP) / Local Initiatives Program (LIP) Application for traffic calming improvements for 140th Street North, Temple Boulevard and Hall Boulevard. **(TPA Grant)**
- CAPTEC prepared the presentation for ITID at a Roundtable Meeting with Palm Beach County Fire Rescue and the Palm Beach County Sheriff's Department for adaptable traffic calming for ITID

In 2017:

- March 2017: The Board approved a Traffic Calming **Pilot Program** on 140th Avenue North between Orange Boulevard and Citrus Grove Boulevard (Exhibit A).
- **March 2018: ITID installed the Traffic Calming Pilot Program elements which included speed cushions at two (2) locations and a radar sign at one location. ITID staff has requested additional design plans for the installation of the Traffic Circle at the intersection of 140th Avenue North and Temple Boulevard which should be installed by ITID staff in January 2019. Once the Traffic Circle is completed, CAPTEC Engineering, Inc., will monitor speed and volumes within the Pilot Program area. We expect the monitoring results to be completed within 3 to 4 months after installation of the Traffic Circle (Exhibits B and E).**
- December 2017: The Board approved Resolution 2017-17 supporting the TPA Grant by the Florida Department of Transportation to manage, construct and deliver the TAP / LIP funding for District roadway improvements in accordance with the policy for projects not on a roadway within the state highway system within the local agency's right-of-way / local jurisdiction. (Exhibit A)

In 2018:

- The FDOT held the Kick-Off Meeting for the TAP / LIP Project Design Phase on October 18, 2018. The project schedule identifies the start of construction as the 4th quarter of 2020.
- On November 16, 2018 a meeting with David Ricks, P.E. and Tanya McConnell, P.E. was held to discuss ITID traffic safety concerns due to recent major accidents at several intersections. All traffic control devices throughout ITID must be approved by the Palm Beach County Engineering Department.
- The Palm Beach County Engineering Department agreed to the following:
 - Perform traffic counts at the Hall Boulevard and Northlake Boulevard Intersection as ITID wanted to know if Palm Beach County would consider placing a signal at this intersection;
 - Consider adding a raised median (Exhibit C) at the intersection of Hall Boulevard on the north and south sides of Northlake Boulevard;
 - Provide intersection medians at all side streets connecting with Palm Beach County roadways when making future County roadway improvements;
 - Implement "No Truck Traffic" signs on several local ITID streets.
- The ITID requested that the location of stop signs be adjusted on various roadways throughout the District. The ITID would like speed limits lowered on several streets. Palm Beach County would like the ITID to complete a **Stop Sign Study** throughout the District, and then they will consider an all-inclusive change to stop signs. The lowering of speed limits must follow an FDOT study process. This FDOT study process may not warrant lowering speed limits and therefore traffic calming may be the best options for slowing speeds.

Summary:

The following is a summary of the various traffic calming projects' status and requests for the Board of Supervisor to consider:

- 1) The FDOT has begun the design and will ultimately construct the TPA Grant Project for traffic calming improvements as per Exhibit A.
- 2) ITID Staff / Consultants will complete the last **Pilot Program** Improvement of a **Traffic Circle** at 140th Avenue North and Temple Boulevard (Exhibit E).
- 3) Based on the results of the November 16, 2018 meeting with the Palm Beach County Engineering Department, ITID should complete a **Stop Sign Study** throughout the District. Presently, ITID has a Stop Sign Location Map (Exhibit F) and a Speed Limit Map (Exhibit G). The Stop Sign Study will need to be developed with the Palm Beach County Engineering Department. In order to complete this study, Palm Beach County accident data and possibly speed data will need to be reviewed in order to make a recommendation to the ITID Board and ultimately the Palm Beach County Engineering Department for adjustments to the stop signs throughout the ITID.
- 4) Following the discussions with the Palm Beach County Engineering Department and in an effort to provide signage at the Hall Boulevard and Northlake Boulevard Intersection, the ITID Staff / Consultants would request that Palm Beach County allow the installation of a **lighted LED Stop Sign** (Exhibit H) at the north and south legs of Hall Boulevard at its intersection with Northlake Boulevard.

The 2 LED Stop Signs are expected to cost less than \$7,500.00.