

INTERSECTION IMPROVEMENTS

Scope of Work

Eliminate, or reduce, traffic bottleneck issues at intersections by adding turn lanes and through lanes, increasing turn-lane vehicle capacity, or modifying intersection geometry to remove complex signal operation. After eliminating bottlenecks, traffic signals at the improved intersection as well as adjacent intersections can be re-timed and optimized. Depending on the intersections, needed improvements to the traffic signals including mast arm conversion, bike lanes, sidewalks, lighting, pavement and marking will be performed at the same time. Traffic volume data and operational analyses will be collected before and after the project to evaluate the effectiveness and optimize the operation of the intersection.

Expected benefits of these projects are higher traffic through-put and decreased wait time.

Budget Request for Intersection Improvement in FY2020 - \$1,289,000

Funding is being requested for the design of four Intersection Improvement projects. Details of the projects are provided below.

I01 Flamingo Road and New River Greenway. Plantation and Davie

Install crossing at Flamingo Road and New River Greenway to improve bicycle and pedestrian accessibility and safety.

Schedule:

Board-Approved Design Start – 2020

Current Design Start – 2020

Reasons for Change – N/A

Capital Cost Estimate:

Board-Approved Capital Cost - \$1,400,00

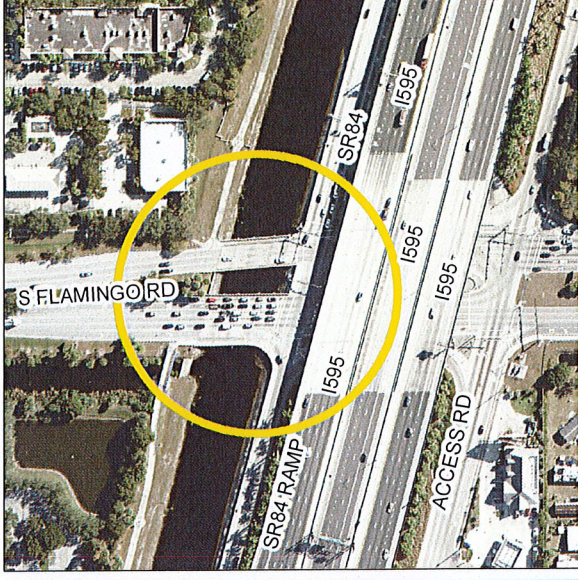
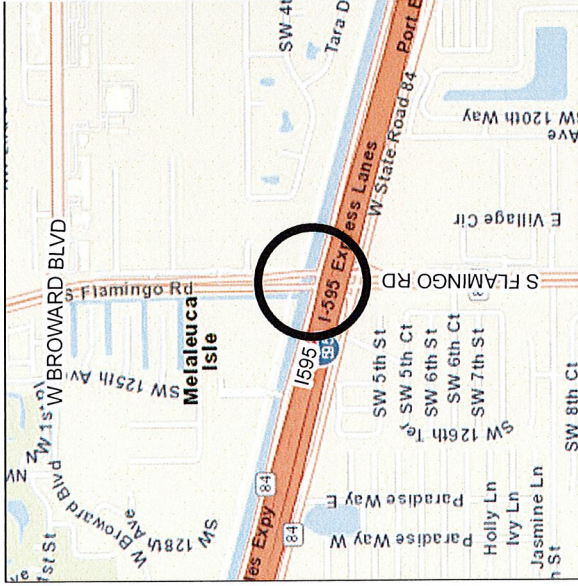
Current Capital Cost - \$600,000

Reasons for Change – Anticipated

improvements for this project is expected to be less extensive than the typical intersection improvement project.

FY2020 Request:

\$143,000 for design



Flamingo Road Looking South to New River Greenway

I02 Nob Hill Road and Southgate Boulevard.
Tamarac

Verify availability of right-of-way and conduct a traffic study. Improvements at this intersection may include installation of a southbound dual left and northbound right turn lanes and extend westbound left turn lane.

Schedule:

Board-Approved Design Start – 2020

Current Design Start – 2020

Reasons for Change – N/A

Capital Cost Estimate:

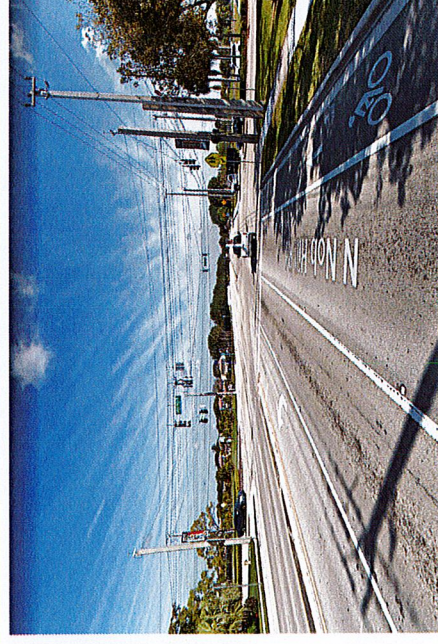
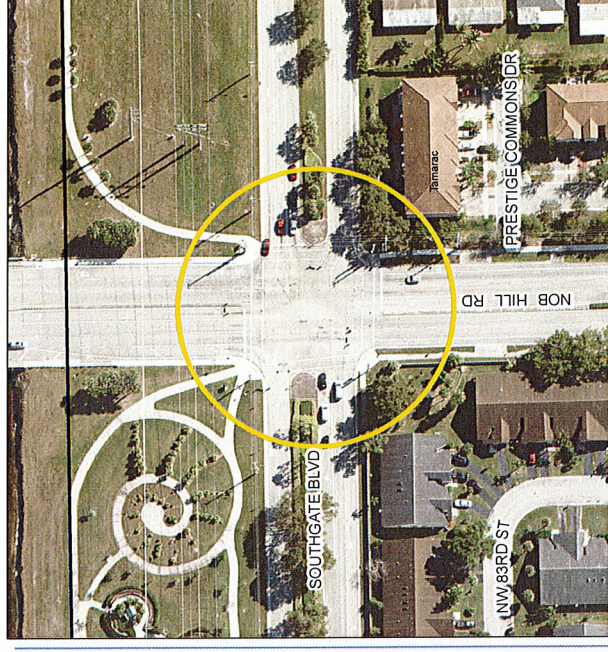
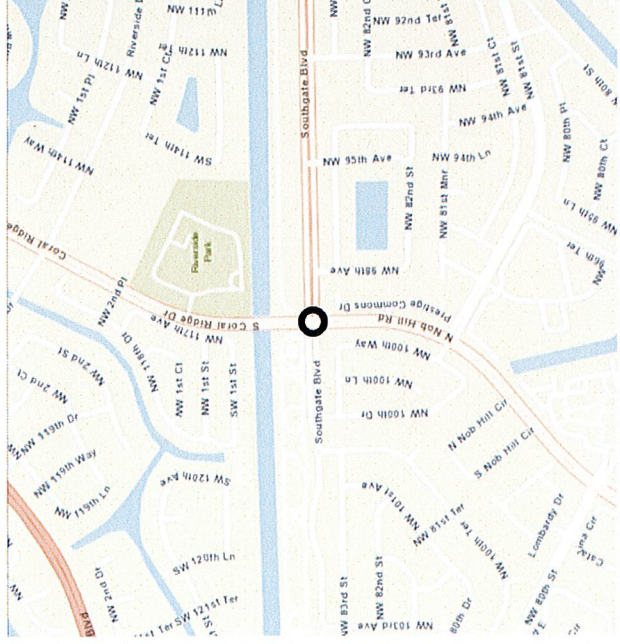
Board-Approved Capital Cost - \$1,400,00

Current Capital Cost - \$2,106,000

Reasons for Change – Cost for this project is expected to be higher than the typical intersection improvement project due to the required connection with the existing bridge over Stranahan River.

FY2020 Request:

\$430,000 for design



NB Nob Hill Rd. at Southgate Blvd.



WB Southgate Blvd. at Nob Hill Rd.

I03 NW 31 Avenue/Lyons Road and McNab Road, Ft. Lauderdale

Verify availability of right-of-way and conduct a traffic study. Improvements at this intersection may include installation of west bound dual left lanes, add sidewalk along McNab Road, and re-strip northbound lane to improve connection to existing bike lane.

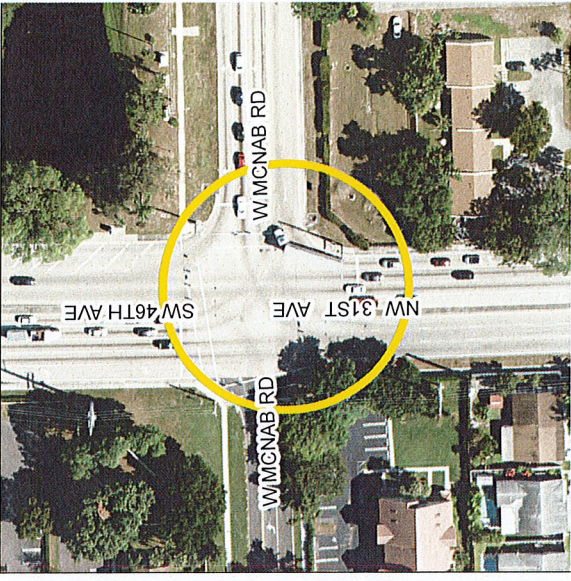
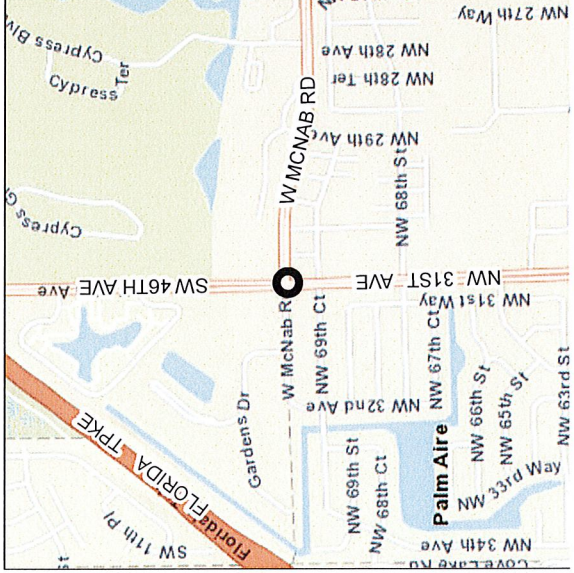
Schedule:

Board-Approved Design Start – 2020
 Current Design Start – 2020
 Reasons for Change – N/A

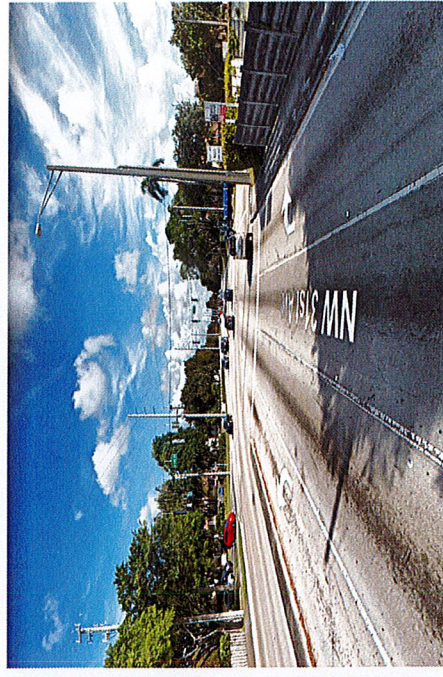
Capital Cost Estimate:

Board-Approved Capital Cost - \$1,400,00
 Current Capital Cost - \$1,638,000
 Reasons for Change – Cost for this project has been adjusted to include a variety of needed site-specific work.

FY2020 Request:
 \$334,000 for design



WB McNab Rd. at Lyons Rd.



NB Lyons Rd at McNab Rd.

INTERSECTION IMPROVEMENT

Rescheduled Projects

Eight Intersection Improvement projects were scheduled to start in FY2020 and have been rescheduled. The reasons for the rescheduling are provided below:

I73 Sheridan Street and Dykes Road/SW 160 Avenue, Pembroke Pines

Schedule:

Board-Approved Design Start – 2020

Current Schedule – Underway

Reasons for Change – This project has been funded with gas tax funds.

I31 Sunrise Boulevard and NE 15 Avenue, Fort Lauderdale

Schedule:

Board-Approved Design Start – 2020

Current Design Start – To be included in 5-year plan.

Reasons for Change – FDOT is planning an improvement project in the vicinity. The rescheduling will allow County and FDOT staff to continue our coordination on the scope and timing in order to minimize potential conflicts and impact to the public.

I48 Andrews Avenue and SE 17 Street, Fort Lauderdale

I65 SR-7 and Boulevard of Champions, North Lauderdale

I67 SR-7 and NW 16 Street, Lauderdale

I68 SR-7 and NW 19 Street, Lauderdale

I69 SR-7 and Royal Palm Boulevard, Margate

I71 Sunrise Boulevard and Andrews Avenue, Ft. Lauderdale

Schedule:

Board-Approved Design Start – 2020

Current Design Start – To be included in corridor review.

Reasons for Change – Above locations are located with the SR-7 and Andrews Avenue corridors. Their schedules will be developed as part of the corridor project delivery analysis.

SCHOOL ZONE SAFETY IMPROVEMENTS

Scope of Work

Review the adequacy of existing school zones based on current vehicular and pedestrian traffic patterns. Based on the review, infrastructure upgrades may include mast-arm mounted school flashers, ground-mounted flashers, signs, or pavement marking to meet current safety standards. This element is carried out in close coordination with Broward County School Board and local municipalities.

Expected benefits are improved safety for children walking to and from school.

Budget Request for School Zone Safety Improvement in FY2020 - \$160,000

Funding is being requested for the design of eight School Zone Safety Improvement projects. Details of the projects are provided below.

Z06 Apollo Middle School. Hollywood
Z11 Everglades High School. Miramar

Review and install school zone safety improvements at Apollo Middle School and Everglades Middle School, as needed.

Schedule:

Board-Approved Design Start – 2020
 Current Design Start – 2020
 Reasons for Change – N/A

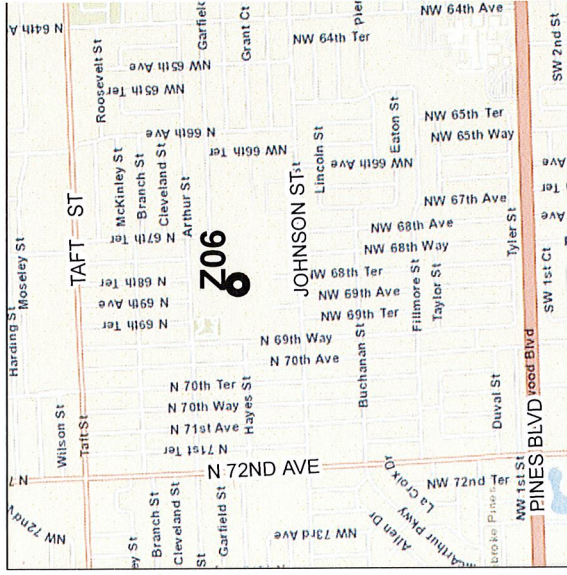
Capital Cost Estimate (per school):

Board-Approved Capital Cost - \$70,000
 Current Capital Cost - \$85,000

Reasons for Change – Recent average construction costs for school zone safety improvement projects have increased.

FY2020 Request:

\$20,000 for design for each school,
 \$40,000 total



School Zone Safety Awareness



Mast Arm Flasher



Pedestal Flasher



Signage

Z12 Northeast High School. Oakland Park
Z08 Attucks Middle School. Hollywood

Review and install school zone safety improvements at Northeast High School & Attucks Middle School, as needed.

Schedule:

- Board-Approved Design Start – Northeast High School – 2038
- Attucks Middle School – 2038
- Attucks Middle School - 2023

Current Design Start – 2020

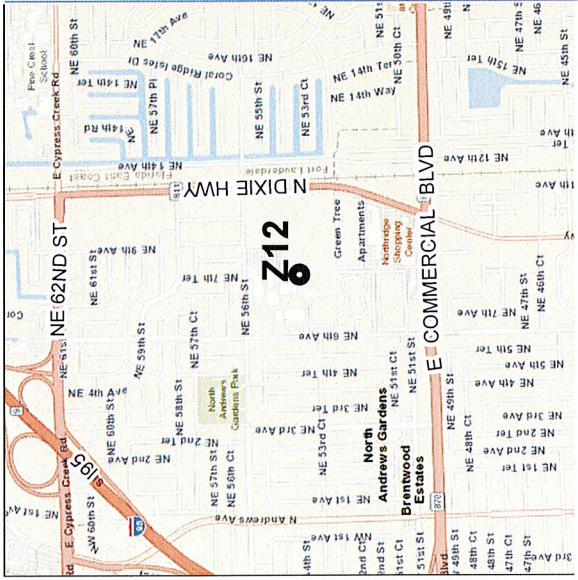
Reasons for Change – Project schedules are based on input and request from the Broward School Board and associated cities.

Capital Cost Estimate (per school):

- Board-Approved Capital Cost - \$70,000, each
- Current Capital Cost - \$85,000, each
- Reasons for Change – Recent average construction costs for school zone safety improvement projects have increased.

FY2020 Request:

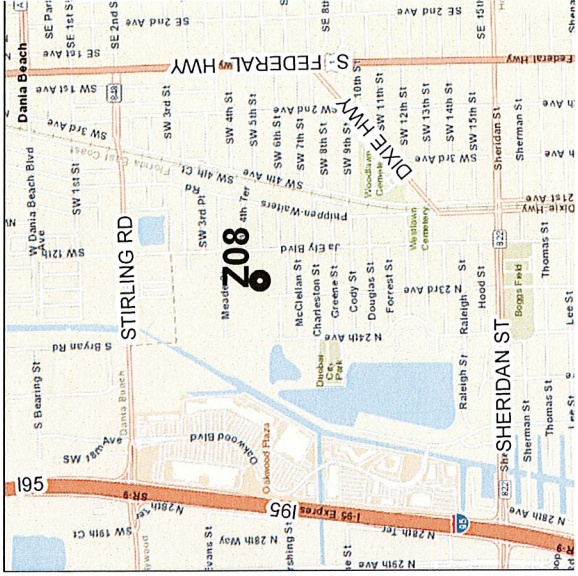
\$20,000 for design for each school
 \$40,000 total.



School Zone Safety Awareness



Mast Arm Flasher



Pedestal Flasher



Signage

Z09 Mary Bethune Elementary School.
Hollywood
Z10 Boulevard Heights Elementary School.
Hollywood

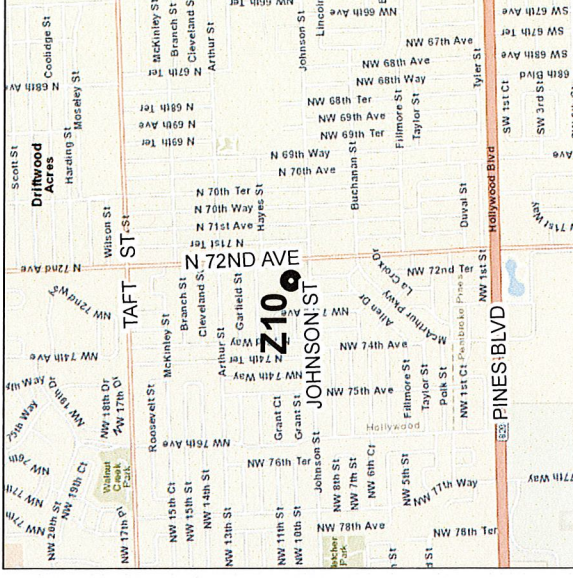
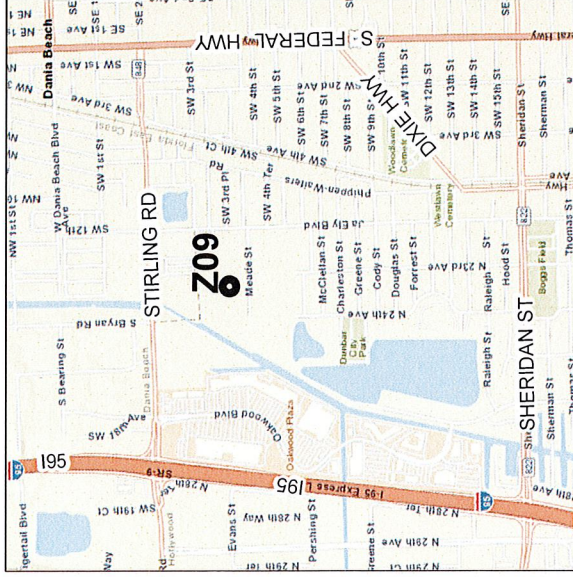
Review and install school zone safety improvements at Mary Bethune Elementary School and Boulevard Heights Elementary School, as needed.

Schedule:
 Board-Approved Design Start – Mary Bethune Middle School - 2024
 Boulevard Heights Elementary School - 2024

Current Design Start – 2020
 Reasons for Change – Project schedules are based on input and request from the Broward School Board and associated cities.

Capital Cost Estimate (per school):
 Board-Approved Capital Cost - \$70,000, each
 Current Capital Cost - \$85,000, each
 Reasons for Change – Recent average construction costs for school zone safety improvement projects have increase

FY2020 Request:
 \$20,000 for design for each school,
 \$40,000 total cost.



School Zone Awareness



Mast Arm Flasher



Pedestal Flasher



Signage

Z07 Atlantis Academy. Coral Springs
Z05 Abundant Life Christian Academy.
Margate

Review and install school zone safety improvements at Atlantic Academy and Abundant Life Christian Academy, as needed.

Schedule:

Board-Approved Design Start –
 Atlantis Academy - 2026

Abundant Life Christian Academy - 2032

Current Design Start – 2020

Reasons for Change – Project schedules are based on input and request from the Broward School Board and associated cities.

Capital Cost Estimate (per school):

Board-Approved Capital Cost - \$70,000, each

Current Capital Cost - \$85,000, each

Reasons for Change – Recent average construction costs for school zone safety improvement projects have increase

FY2020 Request:

\$20,000 for design for each school,
 \$40,000 total cost.



School Zone Safety Awareness



Mast Arm Flasher



Pedestal Flasher



Signage

SCHOOL ZONE SAFETY IMPROVEMENTS

Rescheduled Projects

Seven School Zone Safety Improvement projects were scheduled to start in FY2020 and have been rescheduled. The reasons for the rescheduling are provided below:

Z83 Deerfield Park Elementary School. Deerfield Beach

Z84 Park Springs Elementary School. Coral Springs

Z85 Westchester Elementary School. Coral Springs

Z86 Silver Lakes Middle School. North Lauderdale

Z88 Pembroke Lakes Elementary School. Pembroke Pines

Schedule:

Board-Approved Design Start – 2020

Current Schedule – Underway

Reasons for Change – These projects have been funded with gas tax funds.

Z15 Hollywood Park Elementary School. Hollywood

Z39 Panther Run Elementary School. Pembroke Pines

Schedule:

Board-Approved Design Start – 2020

Current Design Start – To be included in 5-year plan

Reasons for Change – Project schedules have been adjusted based on input from the Broward School Board and associated cities.

STREET LIGHTING

Scope of Work

Installs streetlights on portions of County roads currently without lighting. The new streetlights will utilize LED or other energy efficient equipment.

Budget Request for Street Lighting in FY2020 - \$874,000

Funding is being requested for the design of four Street Lighting projects. Details of the projects are provided below.

L02 Franklin Park
Municipal Service District
Phase 1. Street Lighting

Install lighting in Phase 1 of two phases in Franklin Park.

Schedule:

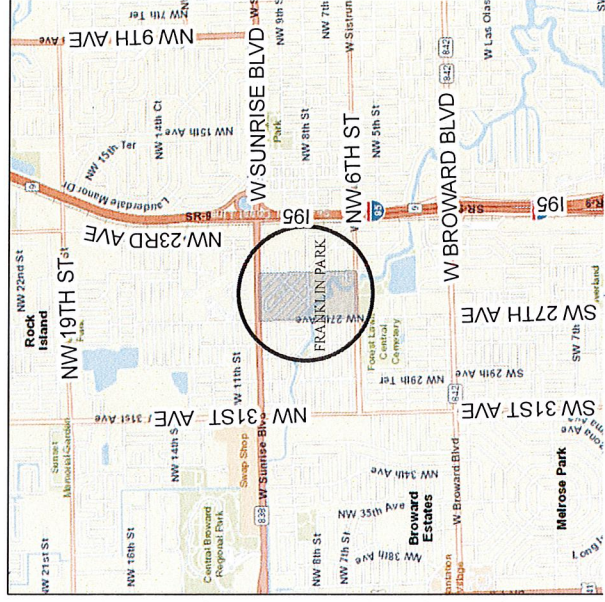
Board-Approved Design Start – 2020
Current Design Start – 2020
Reasons for Change – N/A

Capital Cost Estimate:

Board-Approved Capital Cost - \$769,000
Current Capital Cost - \$769,059
Reasons for Change – N/A.

FY2020 Request:

\$88,000 for design



WB NW 9th Court.



Proposed Lighting Equipment

L03 Roosevelt Gardens
Municipal Service District
Phase 1. Street Lighting

Install lighting in Phase 1 of two phases in Roosevelt Gardens.

Schedule:

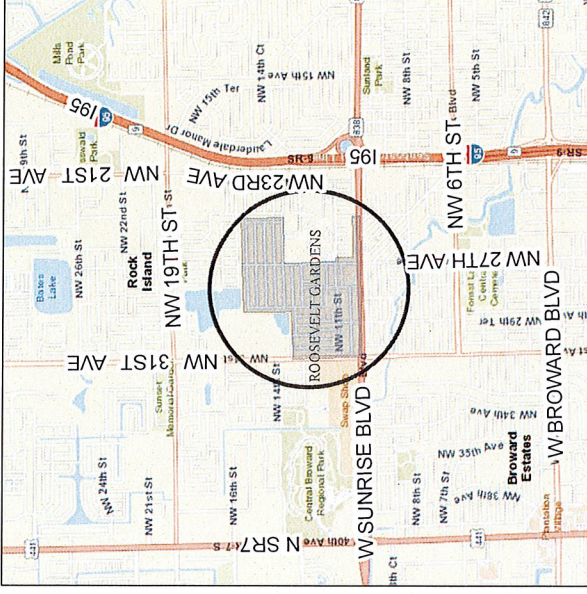
Board-Approved Design Start – 2020
Current Design Start – 2020
Reasons for Change – N/A

Capital Cost Estimate:

Board-Approved Capital Cost - \$2,721,000
Current Capital Cost - \$2,721,284
Reasons for Change – N/A.

FY2020 Request:

\$309,000 for design



EB NW 11th Street



Proposed Lighting Equipment

L04 Washington Park
Municipal Service District
Phase 1. Street Lighting

Install lighting in Phase 1 of two phases in Washington Park.

Schedule:

Board-Approved Design Start – 2021

Current Design Start – 2020

Reasons for Change – The schedule is adjusted to allow for potential coordination with the sidewalk project in Washington Park.

Capital Cost Estimate:

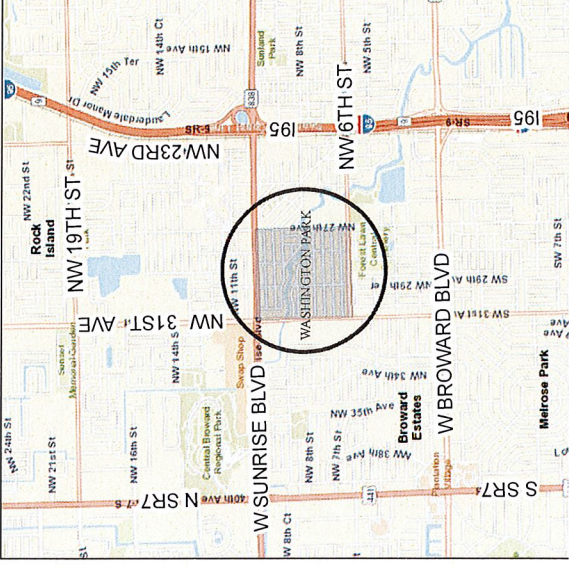
Board-Approved Capital Cost - \$2,129,700

Current Capital Cost - \$2,129,500

Reasons for Change – N/A.

FY2020 Request:

\$242,000 for design



WB NW 7th Court



Proposed Lighting Equipment

L01 Boulevard Gardens
Municipal Service District
Phase 1. Street Lighting

Install lighting in Phase 1 of two phases in Boulevard Gardens.

Schedule:

Board-Approved Design Start – 2022

Current Design Start – 2020

Reasons for Change – The schedule is adjusted to allow for potential coordination with the sidewalk project in Boulevard Gardens.

Capital Cost Estimate:

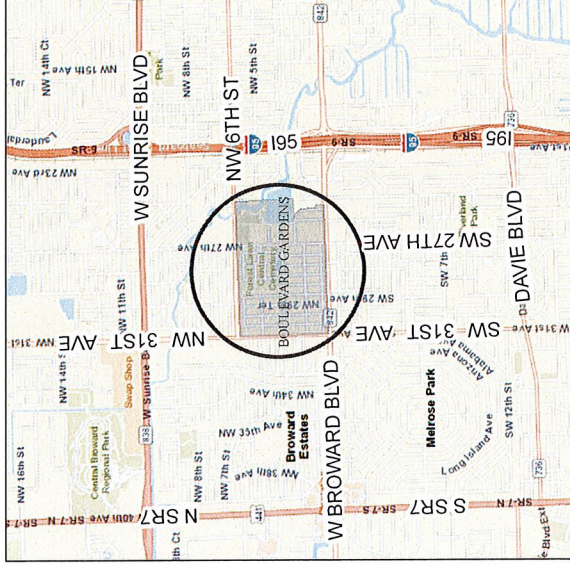
Board-Approved Capital Cost -
\$2,070,542

Current Capital Cost - \$2,070,500

Reasons for Change – N/A.

FY2020 Request:

\$235,000 for design



EB NW 2nd Street



Proposed Lighting Equipment

SIDEWALKS

Scope of Work

Install new, ADA-compliant, sidewalks on portions of County roads that currently do not have sidewalk. Swale areas will be re-graded in order to improve drainage. Survey will be performed as the first step in each project in order to verify if adequate right-of-way is available for sidewalks.

Sidewalks offer a safe walking area, promote alternative mode of transportation and enhance connectivity to public transit. Expected benefits include increased volume of pedestrian traffic.

(insert photo of sidewalks)

Budget Request for Sidewalks in FY2020 - \$808,000

Funding is being requested for the design of three Sidewalk projects. Details of the projects are provided below.

S01 Boulevard Gardens Municipal Service District
Phase 1. Sidewalk Construction

Install sidewalks in Phase 1 of two phases in Boulevard Gardens.

Schedule:

Board-Approved Design Start – 2020

Current Design Start – 2020

Reasons for Change – N/A

Capital Cost Estimate:

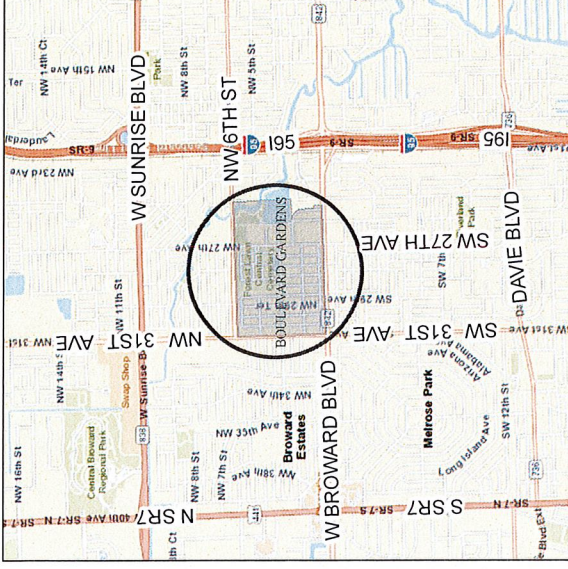
Board-Approved Capital Cost - \$540,122

Current Capital Cost - \$1,150,000

Reasons for Change – Cost estimate has been increased to include regrading existing swale areas to improve drainage.

FY2020 Request:

\$248,000 for design



WB NW 1st Street



Proposed Sidewalk Construction

S02 Franklin Park Municipal Service District
Phase 1. Sidewalk Construction

Install sidewalks in Phase 1 of two phases in Franklin Park.

Schedule:

Board-Approved Design Start – 2020

Current Design Start – 2020

Reasons for Change – N/A

Capital Cost Estimate:

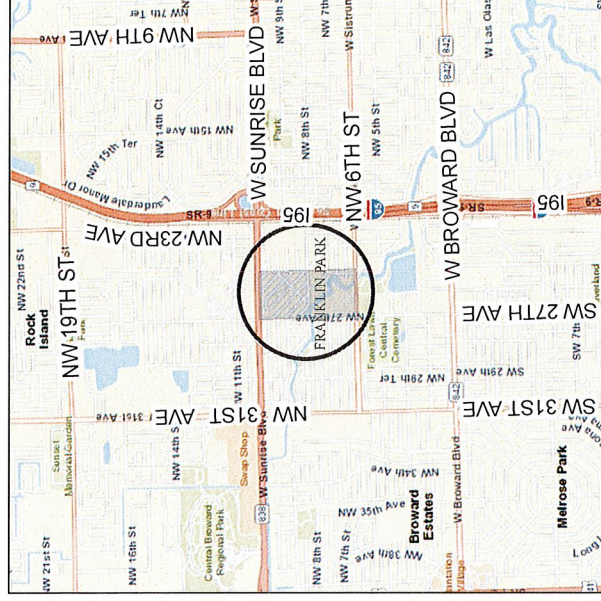
Board-Approved Capital Cost - \$245,048

Current Capital Cost - \$900,000

Reasons for Change – Cost estimate has been increased to include regrading existing swale areas to improve drainage.

FY2020 Request:

\$194,000 for design



Proposed Sidewalk Construction



WB NW 9th Street

S03 Washington Park Municipal Service District
Phase 1. Sidewalk Construction

Install sidewalks in Phase 1 of two phases in Washington Park.

Schedule:

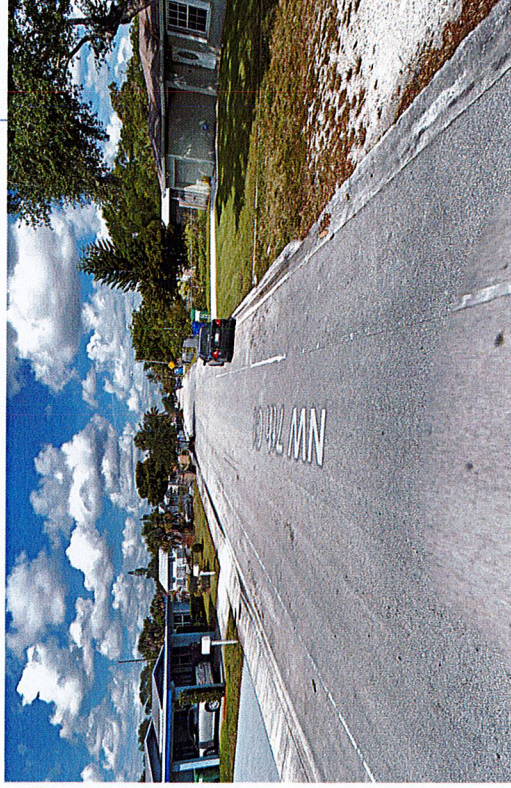
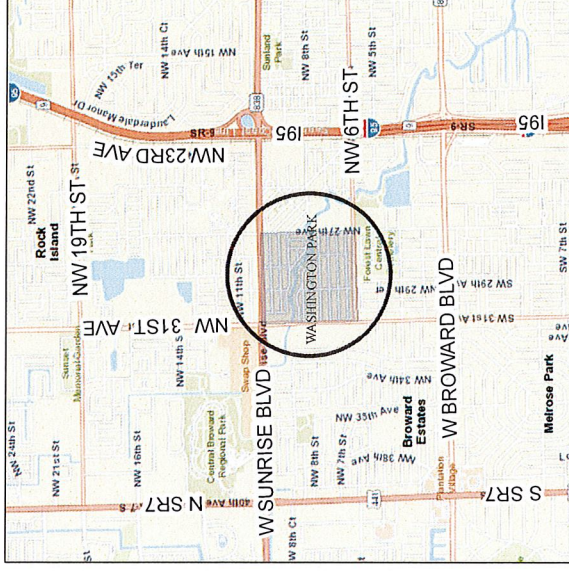
Board-Approved Design Start – 2020
Current Design Start – 2020
Reasons for Change – N/A

Capital Cost Estimate:

Board-Approved Capital Cost - \$1,616,197

Current Capital Cost - \$1,700,000
Reasons for Change – Cost estimate has been increased to include regrading existing swale areas to improve drainage.

FY2020 Request:
\$366,000 for design



WB NW 7th Court



Proposed Sidewalk Construction

SIDEWALKS

Rescheduled Projects

Three Sidewalk projects were scheduled to start in FY2020 and have been rescheduled. The reasons for the rescheduling are provided below:
S01 Broadview Park Phase 1. Municipal Service District

Schedule:

Board-Approved Design Start – 2020

Current Design Start – To be included in 5-year plan

Reasons for Change – The schedule is adjusted to allow for potential coordination with the streetlight project in Broadview Park.

S11 Cypress Creek Road from Dixie Highway to NE 18 Avenue. Ft. Lauderdale

S12 Cypress Creek Road from I-95 to Dixie Highway. Oakland Park

Schedule:

Board-Approved Design Start – 2020

Current Design Start – To be included in 5-year plan

Reasons for Change – FDOT is planning an improvement project in the vicinity. The rescheduling will allow County and FDOT staff to continue our coordination on the scope and timing in order to minimize potential conflicts and impact to the public.

VIDEO DETECTION MAINTENANCE

Scope of Work

Install data encoders in key intersections throughout the County to enable transmission of real-time video data back to Traffic Engineering Division. The encoders are installed inside the existing traffic control cabinet at each intersection. The encoders will be installed over a three-year period. The video only captures the number and location of vehicles at intersections. No personal identification video is recorded or transmitted.

Availability of video data will allow County staff to centrally monitor the performance of the vehicle detection equipment in the field, identify monitoring issues that could degrade signal coordination, and initiate maintenance service calls prior to actual failure of the equipment. The number of maintenance work orders and service calls from the public will be monitored before and after the installation of the encoders to measure project success.

Budget Request for Video Detection Maintenance in FY2020 - \$315,000

Funding is being requested for the installation of equipment associated with the Video Detection Maintenance project. Details of the project are provided below.

V01 Video Detection Maintenance. Countywide

Install encoders in approximately 100 intersections throughout the County.

Schedule:

Board-Approved Design Start – 2020

Current Design Start – 2020

Reasons for Change – N/A

Capital Cost Estimate:

Board-Approved Capital Cost - \$1,680,000

Current Capital Cost - \$1,680,000

Reasons for Change – N/A

FY2020 Request:

\$315,000 for equipment installation

