



AGENDA CMC

Congestion Management Committee
HYBRID IN-PERSON AND ZOOM VIRTUAL MEETING

IN-PERSON QUORUM REQUIRED

NOTE MEETING ROOM CHANGE:

**Conference Room 609/610 GMD Planning & Regulation Building
2800 N Horseshoe Dr, Naples**

Meeting ID: 839 1494 5323

Passcode: 326774

Please click [here](#) to be directed to the Zoom website, or you may dial in at 1-646-876-9923

January 20, 2021

2:00 p.m.

1. Call to Order
2. Roll Call
3. Approval of Agenda
4. Approval of September 16, 2020 Meeting Minutes
5. Open to Public for Comment on Items Not on the Agenda
6. Agency Updates
 - A. FDOT
 - B. MPO Director
 - C. Other
7. Committee Action
 - A. Elect Chair & Vice Chair
 - B. Final Evaluation, Scoring and Ranking of Project Priorities
8. Reports and Presentations (May Require Committee Action)
9. Member Comments
10. Distribution Items (No presentation)
 - A. 2021 Meeting Calendar
11. Next Meeting Date:

Next Meeting Date:
March 17, 2020 at 2 p.m.
Hybrid: **In-Person Quorum Required**,
Virtual Access Available via ZOOM
12. Adjournment

PLEASE NOTE:

This meeting of the Congestion Management Committee (CMC) of the Collier Metropolitan Planning Organization (MPO) is open to the public and citizen input is encouraged. Any person wishing to speak on any scheduled item may do so upon recognition of the Chairperson. Any person desiring to have an item placed on the agenda shall make a request in writing with a description and summary of the item, to the MPO Director or CMC Committee Chair 14 days prior to the date of the next scheduled meeting of the CMC. Any person who decides to appeal a decision of this Committee will need a record of the proceedings pertaining thereto, and therefore may need to ensure that a verbatim record of the proceeding is made, which record includes the testimony and evidence upon which the appeal is to be based. In accordance with the Americans with Disabilities Act, any person requiring special accommodations to participate in this meeting should contact the Collier Metropolitan Planning Organization 72 hours prior to the meeting by calling (239) 252-5884. The MPO's planning process is conducted in accordance with Title VI of the Civil Rights Act of 1964 and Related Statutes. Any person or beneficiary who believes that within the MPO's planning process they have been discriminated against because of race, color, religion, sex, age, national origin, disability, or familial status may file a complaint with the Collier MPO by calling MPO Executive Director, Anne McLaughlin at (239) 252-5884 or by writing to Ms. McLaughlin at 2885 South Horseshoe Dr., Naples, FL 34104.

**CONGESTION MANAGEMENT COMMITTEE of the
COLLIER METROPOLITAN PLANNING ORGANIZATION
Via ZOOM**

**September 16, 2020
2:00 p.m.
Meeting Minutes**

1. Call to Order

Mr. Khawaja called the meeting to order at 2:05 p.m.

2. Roll Call

Ms. McLaughlin called the roll and confirmed a quorum was present.

CMC Members Present

Tony Khawaja, Chairman, Collier County Traffic Operations
Tim Pinter, Vice-Chair, City of Marco Island (left early)
Karen Homiak, CAC Representative
Lorraine Lantz, Collier County Transportation Planning
Alison Bickett, City of Naples
Dr. Mort Friedman, BPAC Representative
Omar DeLeon, Public Transit Neighborhood Enhancement (PTNE)

CMC Members Absent

Dave Rivera, City of Naples
Dan Summers, Collier County Emergency Management
John Kasten, Collier County School District
Don Scott, Lee County MPO (*non-voting*)

MPO Staff

Anne McLaughlin, Executive Director
Karen Intriago, Administrative Assistant

Others Present

Victoria Peters, FDOT
Jennifer Marshall, FDOT
Pierre Beauvoir, Collier County Traffic Operations
Zachary Karto, PTNE
Jonathan Bass, Urban SDK
Drew Messer, Urban SDK
Justin Dennis, Urban SDK
Joseph Ciccarelli, Iteris
Anita Vandervalk, Iteris

3. Approval of the Agenda

Mr. Pinter moved to approve the agenda. Dr. Friedman seconded. Carried unanimously.

4. Approval of the July 15, 2020 Meeting Minutes.

Ms. Homiak moved to approve the minutes. Mr. Pinter seconded. Carried unanimously.

5. Public Comments for Items not on the Agenda

None.

6. Agency Updates

A. FDOT

Ms. Peters – Last CMC meeting, discussed new applications. Mentioned newer GAP system accepting applications. Will not have to use new application for CMC projects and will not need to submit them to new GAP system. Applications will eventually be transitioned into GAP system. Draft tentative work program for 2022-2026 – currently working on now – should bring new tentative plan to Board during December 11, 2020 meeting. Draft tentative plan public hearings scheduled for December 7-11, 2020.

B. MPO Executive Director

Ms. McLaughlin – Working with Tindale Oliver on Local Road Safety Plan (“LRSP”). Hoped to have draft of Plan for CMC to review but did not receive in time. CAC/TAC will review at meetings scheduled for September 28, 2020 – will send out draft plan to CMC members for comment. Encouraged attendance through Zoom portal to see presentation. Will distribute draft when available and will send out links to Zoom presentations. Wally Blaine (Tindale Oliver) was able to work material into Transportation System Performance Report and include safety statistics as factor affecting congestion. Want safety represented in Long Range Transportation Plan. Tindale Oliver’s contract expires on November 5, 2020. Brief discussion regarding delay in generating report timely by Tindale Oliver.

C. Other

Ms. Bickett – None.

Mr. Pinter – None.

Mr. Beauvoir – almost finished with count station update. One last item to receive from vendor. Project No. 436971. Arterial monitoring cameras – Project No. 433180 – going in front of Board on October 13, 2020. Asking Board to award contract to Control Technologies. Purchasing 81

cameras. Project No. 435013 - ITS network upgrade. Upgrading entire networking infrastructure. Sitting at Grants and Procurement to complete award.

Ms. Lantz – Golden Terrace Elementary School in Golden Gate. Did not receive grant for project. A lot of competition. Will resubmit. Now known as Laverne Gaynor Elementary School.

7. Committee Action

A. Review Project Concept Sheets Submitted in Response to Call for Projects

Mr. Khawaja – 5 projects submitted (included in agenda packet). (1) Sidewalk on 91st Avenue N. between 41 and Vanderbilt. (2) Evaluation of Vanderbilt between Airport Pulling and Livingston. (3) ITS fiber optic project connecting devices to FPL. (4) ITS project to do vehicle detection at signalized intersections. (5) Timing project.

Ms. Lantz – Project 1 – for sidewalk project. Consulted with Bicycle and Pedestrian Advisory Committee. Did not move forward with funding for last year's call for projects. New evaluation criteria in TSPR applicable - project alleviates Vanderbilt Beach Rd congestion as parallel facility. Mercato is a major destination at the east side of the project. Requesting PE and construction. Submitted for Pathways SU box originally, feasibility study completed. **Ms. McLaughlin** – supports project and was disappointed when bike/ped committee felt it could not be pursued. Was over budget for priority list. Glad to see opportunity to bring it up again. **Mr. Khawaja** – Not enthusiastic about funding sidewalks with congestion management funds, but half of funding goes to ITS and half to bike path and facilities. **Mr. Pinter** – Agree. Only a 5 ft. sidewalk. Would expect 6-8 ft. as shared use function. Just sidewalk being funded. **Ms. Lantz** – Right-of-Way and drainage constraints precluded wider sidewalk and/or bike lanes. Brief discussion among members regarding clarity and scope of project.

Ms. Lantz – Project 2 – submitted as study then next level. Look at intersection and corridor. Can timing or technical improvements be made. Based on new requirements in CMP implementation matrix.

Mr. Beauvoir – for putting FPL power and fiber optics along various corridors for traffic count stations and PTZ cameras. Corridors include Airport Pulling, Collier Blvd., Golden Gate Blvd. – all arterial roads.

Mr. Beauvoir – vehicle detection. Currently have cameras that are fairly old – 2005-2007 – technology has changed. Looking to update cameras along several corridors in major locations. Actual locations in agenda packet materials. 73 total locations.

Mr. Beauvoir – timing of arterials for ATS in various locations. Rather than 39 intersections – it should be 52 intersections – but dollar amount remains the same.

Ms. McLaughlin – based on **Ms. Otero's** review of the projects – it appears that all projects are eligible and total estimated cost falls within budgetary amount. In future, before another Call for

Projects issued, Committee should discuss how to incorporate hot spot congestion analysis in TSPR into other projects.

Ms. Peters – mentioned two projects from last round (ITS projects) that need funding. SU funds are available. (1) Moorings roundabout is in design for FY 2025. Will need construction funds in FY 2027; (2) US 41 turning lane onto Golden Gate is in right of way in FY 2025. Will need construction funds in FY 2027. Would be eligible for funding consideration. Brief discussion among members regarding funding availability and SU funds. **Ms. McLaughlin** – projects are already on priority list. Nothing further to be done at this time.

Ms. Homiak made motion to move projects forward. Mr. Pinter seconded. Passed unanimously.

8. Reports and Presentations (May Require Committee Action)

A. FDOT Report on Current PD&E Studies

Ms. Marshall – Environmental Administrator for District 1. Discussed presentation in agenda packet. PD&E study updates reviewed. SR29 from Oil Well to SR 82; SR29 from I-75 to Oil Well Road; CR from 887 US 41 to Lee County Line; CR 846 Immokalee at Randall. **Mr. Khawaja** – CR 887 project – pertains to Old US 41 not US 41 arterial. **Ms. Marshall** – will update reference on spreadsheet updates.

B. Reporting on Travel Time, Congestion Management Performance Measures – Two Vendors

Mr. Ciccarelli – consultant with Iteris – two divisions of company: (1) focuses on hardware products/detection; (2) consultant division – Outback Hurricane – recently acquired. Develop performance measurement products including speed. Gave presentation in agenda packet. Explained relationship between Iteris SPM and ClearGuide for data collection and analysis. Gave detailed and thorough presentation using real-time examples of maps/traffic information. Historical data is available in system for 5-years. Information is available within 1 minute of actual status. **Mr. Khawaja** – interested in origin/destination – is data available. **Mr. Ciccarelli** – yes. Question is often asked. Have had discussions with different vendors and we think it is possible but have not had a client want to pursue it. **Mr. Khawaja** – is data for fleet vehicles versus passenger cars. **Mr. Ciccarelli** – everything represented on current mapping is passenger vehicles. Brief discussion regarding types of data collected, how it is represented on the maps, and sources of data.

Mr. Dennis – consultant with Urban SDK. Introduced other consultants in attendance at meeting. Reviewed PowerPoint presentation in agenda packet. **Mr. Messer** – new company – first client in 2018. Data platform for FDOT for District 2 among other entities. Integrated mobility analytics software. **Mr. Dennis** – explained data harvesting including telemetry and IoT data sources. Services are specifically geared towards MPO needs. Data is refreshed every 15 minutes including traffic signals, traffic counts, bridge/pavement conditions, public transit, pedestrian (bike/ped) telemetry, roadway sensors, etc. All types of vehicles (commercial and

passenger) are recorded and data is counted. Provides origin/destination at traffic level or census traffic level. Gathered from carrier network and data partners. Can provide trips as well as pedestrian. Fleet vehicles as well or just general passenger vehicles. Gave demonstration of software capabilities. Statistics are obtained from integrated sources such as FDOT infrastructure and additional data is obtained using their platforms. Brief discussion concerning exactly what data is harvested from equipment and how it is categorized in statistical reporting.

9. Member Comments

None.

10. Distribution Items

N/A.

11. Next Meeting Date

November 18, 2020 – 2:00 p.m.

TBD – Virtual or In-Person

12. Adjournment

There being no further comments or business to discuss, Mr. Khawaja adjourned the meeting at 3:15 p.m.

EXECUTIVE SUMMARY
COMMITTEE ACTION
ITEM 7A

Elect Chair and Vice-Chair

OBJECTIVE: For the Committee to elect a Chair and Vice-Chair for calendar year 2021.

CONSIDERATIONS: The CMC by-laws require that the Committee elect a Chair and Vice-Chair at the first regularly scheduled meeting of each year when a quorum is attained.

Any committee member may nominate or be nominated as Chair/Vice-Chair. Elections shall be decided by the majority vote of committee members present. The Chair and Vice-Chair shall serve a one-year term or until a successor is elected. Anthony Khawaja is the current Chair; Tim Pinter is the current Vice-Chair.

STAFF RECOMMENDATION: That the Committee elect a Chair and Vice-Chair for calendar year 2021.

Prepared By: Anne McLaughlin, MPO Director

EXECUTIVE SUMMARY
COMMITTEE ACTION
ITEM 7B

Final Evaluation, Scoring and Ranking of Project Priorities

OBJECTIVE: For the Committee to conduct a final review, scoring and ranking of project priorities.

CONSIDERATIONS: The Congestion Management Committee (CMC) reviewed 5 projects at the September CMC meeting and voted to move all projects forward for the next level of review. The submitted projects include:

1. 91st Ave N sidewalk construction
2. Vanderbilt Beach Road Corridor Study
3. ITS Fiber Optic and FPL Power Infrastructure
4. ITS Vehicle Detection Update/Installation at Signalized Intersections in Collier County
5. ITS ATMS Retiming of Arterials

MPO staff transmitted the Florida Department of Transportation (FDOT) District One Priority Project Application and the Performance Measures checklist by email on November 5th. Both forms were due to be completed and returned to the MPO no later than close of business on January 4, 2021 in order to be considered for funding. The 2045 Long Range Transportation Plan (LRTP) approved by the Board on December 11, 2020 identifies a programming budget of roughly \$5 million available in FY2027 for this Call for Projects. The MPO Board must approve project priority lists in June 2021.

The completed applications submitted by Collier County Transportation Planning are shown in **Attachment 1**. Applications submitted by Collier County Traffic Operations are shown in **Attachment 2**. MPO staff combined reporting for all 5 projects on a single Performance Measures Matrix, shown in **Attachment 3**. A Project Evaluation, Scoring & Ranking Matrix based on evaluation criteria and scoring which was distributed at the May meeting is provided in **Attachment 4**.

Project proponents will give a brief presentation on each application and respond to questions from the Committee. Committee members will then assign points to each application using the Project Evaluation, Scoring & Ranking Matrix and submit it to MPO staff who will tally the scores and report on the final ranking.

STAFF RECOMMENDATION: For the Committee to conduct a final review, scoring and ranking of project priorities.

Attachments:

1. Collier County Transportation Planning Applications
2. Collier County Traffic Operations Applications
3. Performance Measures Matrix
4. Project Evaluation Scoring & Ranking Matrix

Prepared By: Anne McLaughlin, MPO Director



District One
Priority Project Information Packet

Please fill out this application completely. Please ensure all attachments are LEGIBLE. Applications containing insufficient information will not be reviewed by the FDOT.

Name of Applying Agency: Collier County BCC – Growth Management Division

Project Name: 91st Ave. North – Sidewalk from Vanderbilt Dr. to US41

Project Category:

Congestion Management ☒ TRIP ☐ CIGP ☐ **SU Bike-Ped** ☐

Transportation Alternative ☐ Transit/Modal ☐ SCOP ☐ SCRAP ☐

For more information on State Grant Programs (CIGP, SCOP, SCRAP, TRIP) [please click here.](#)

Is applicant LAP certified? Yes ☒ No ☐

Is project on State Highway System? Yes ☐ No ☒

If the project is off the state system and the applicant is LAP certified the project will be programmed as a LAP project.

Is the roadway on the Federal Aid Eligible System? Yes ☐ No ☒

If yes, provide Federal Aid roadway number: enter text. If no, give local jurisdiction: The project is on local roadways within Collier County, Florida. Click here to enter text.

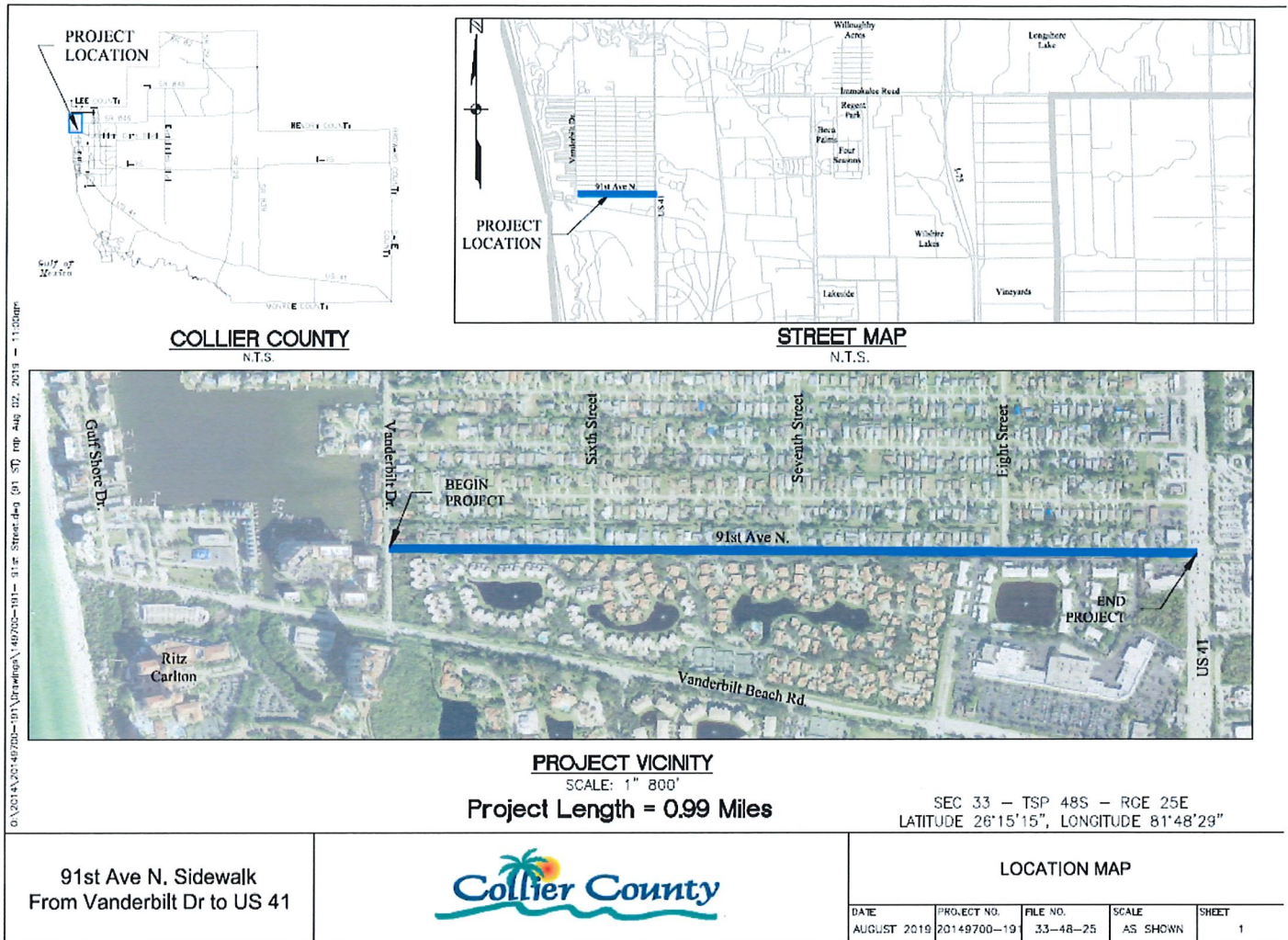
<http://www.fdot.gov/statistics/fedaid/>

Detailed Project Limits/Location:

91st Ave. North – Vanderbilt Drive to US 41 – approximately 1 mile

south to north or west to east. Include jurisdiction (city/county), project length, attach a labeled project, map.

This project is for the construction of a new east/west sidewalk in the area of Collier County known as Naples Park along south side of 91st Ave. from Vanderbilt Dr. to US 41 (approximately 1 mile). The sidewalk will connect to the existing sidewalk adjacent to US 41 to bicycle and pedestrian facilities along Vanderbilt Dr.



Discuss how this project is consistent with the MPO/TPO Long Range Transportation Plan?

Page Number (attach page from LRTP): [Click here to enter text.](#)

This project is included in the MPO's Bicycle and Pedestrian Master Plan, in various appendices and numerous public comments. Citizens have requested this project because there are currently insufficient and gaps in existing pedestrian and bicycle facilities in the area and for safety reasons. The project is in the vicinity of an elementary school, in the vicinity of transit and located in an Environmental Justice area.

This project is also included in the MPO's Naples Park Walkable Community Study completed in August 2013. Only the Tier 1 projects were given a priority based on the singular priority of school-related safety. All other segments were listed and not prioritized. 91st Ave. N from Vanderbilt Dr. to US41 was noted as having a Level of Service D.

Discuss the project in the local jurisdiction's Capital Improvement Plan?

(Attach page from CIP): [Click here to enter text.](#) This project is not budgeted in the Collier County CIP at this time. Full funding is being requested by this application.

Project Description

Phase(s) requested:

Planning Study ☐

PD&E ☐

PE ☒

ROW ☐

CST ☒

CEI ☒

Project cost estimates by phase (Please include detailed cost estimate and documentation in back-up information):

Phase (PD&E, ROW, PE, CST)	Estimated Total Cost	Funds Requested	Matching Local Funds	Local Fund Source	Type of Match (Cash, in-kind)
Design	\$73,900	\$73,900	\$0	[Fund Source]	[Match Type]
CST	\$492,700	\$492,700	\$0	[Fund Source]	[Match Type]
CEI	\$73,900	\$73,900	\$0	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]

Total Project Cost: \$ 640,500.00

Project Details: Clearly describe the existing conditions and the proposed project and desired improvements in detail. Please provide studies, documentation, etc., completed to-date to support or justify the proposed improvements. Include labeled photos and maps. (Add additional pages if needed):

91st Avenue North serves as a local road for the adjacent residential community and measures over 4 blocks in length, extending from Vanderbilt Drive to U.S. 41 and offers accessibility for its residents to surrounding businesses and stores. Currently there are no pedestrian facilities to accommodate the volume of pedestrian traffic along the corridor. The addition of a 5-ft sidewalk on the south side of the roadway is recommended. This would give residents the ability to travel to businesses as well as the beach, which is in close proximity, and would decrease the traffic on nearby roadways.

Corridor Description

91st Avenue N is an east-west roadway which extends from Vanderbilt Drive to the west and terminates at U.S. 41 to the east. Along the project limits, 91st Avenue N is a two-lane undivided roadway with 10-ft travel lanes with residential houses located along the north side of the roadway. Existing open swales serve as drainage and are located to the north and south of the corridor. The posted speed limit within the project limits is 25 mph.

The attached 2019 County Wide Non-Motorized Pathway Constructability Study was completed to support the County's submission and feasibility of the proposed sidewalk.



Constructability Review

For items 2-9 provide labeled and dated photos (add additional pages if needed)

1. Discuss other projects (ex. drainage, utility, etc.) programmed (local, state or federal) within the limits of this project?
 - If programmed by the MPO/FDOT, the design and construction is expected to be approximately 5 years into the future. Transportation Planning has been and will continue to coordinate with the on-going stormwater and utility projects in the Naples Park vicinity. Once fully funded, the design and construction are feasible within 24 months.

2. Does the applicant have an adopted ADA transition plan? Yes ☒ No ☐

Identify areas within the project limits that will require ADA retrofit.
(Include GIS coordinates for stops and labeled photos and/or map.)

- There are no transit stops located within the project but there are four in the immediate vicinity of the project.
- Collier Area Transit Bus Stop ADA Assessment Final Report Dated October 15, 2014. There are two transit stops located near the project limits, however they are located on US41 and not on the road segment listed in this project.

- It was observed that there is an absence of detectable warnings at some of the sidewalk ends. To be compliant with the ADA, it is recommended that detectable warnings be added throughout the project limits at all sidewalk ends and/or crosswalks.

3. Is there a rail crossing along the project? Yes ☐ No ☒

What is the Rail MP?

Enter MP

4. Are there any transit stops/shelters/amenities within the project limits? Yes ☐ No ☒

How many? [Click here to enter text](#)

- There are no transit stops located within the project.

Stop ID number: [Click here to enter text.](#)

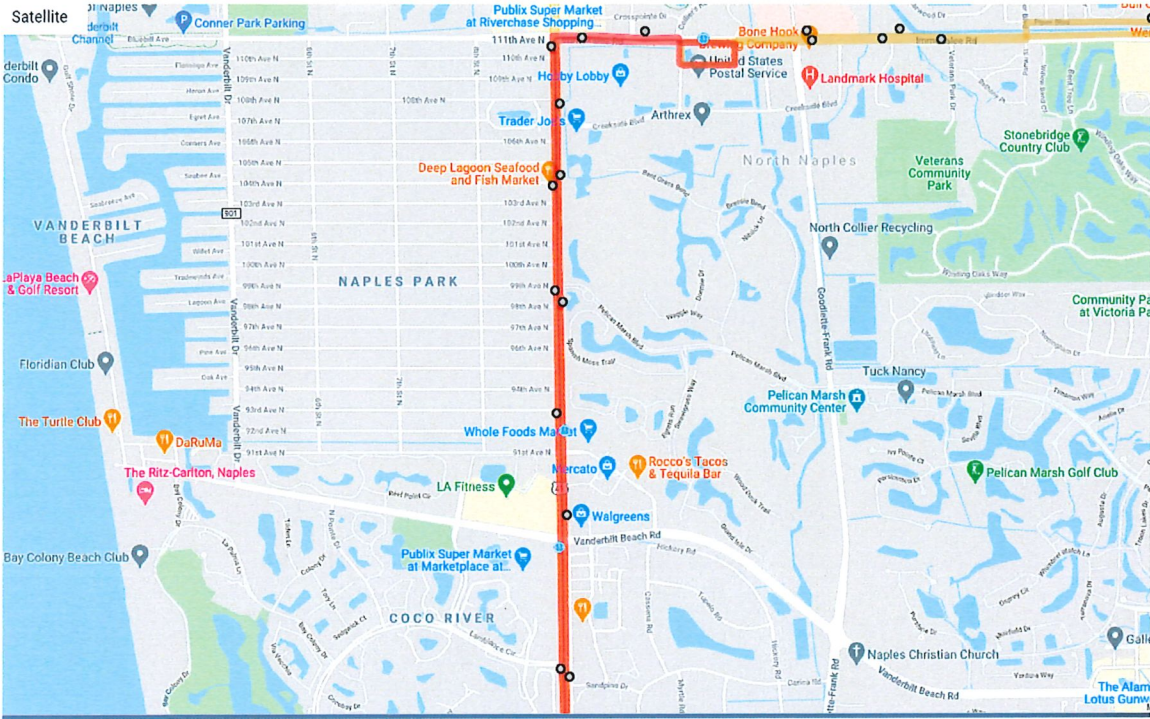
5. Is the project within 10-miles of an airport? Yes ☒ No ☐

- The project is approximately 7 miles from the Naples Municipal Airport.

6. Coordinate with local transit and discuss improvements needed or requested for bus stops?

(add additional pages if needed):

- As discussed above, Collier Area Transit (CAT) bus Route #11 is in the vicinity of the project but does not have stops within the project limits.



Location Map of CAT bus Route #11 and 4 closest stops to the Project.

Stop #36 – US 41 and 93rd Ave. N.

Stop #26 and Stop #37 – US 41 and Vanderbilt Beach Road

Stop #27 – US 41 and Mercato

7. Are turn lanes being added? Yes ☐ No ☒

If yes, provide traffic counts, length, and location of involved turn lanes.
Click here to enter text.

8. Drainage structures:

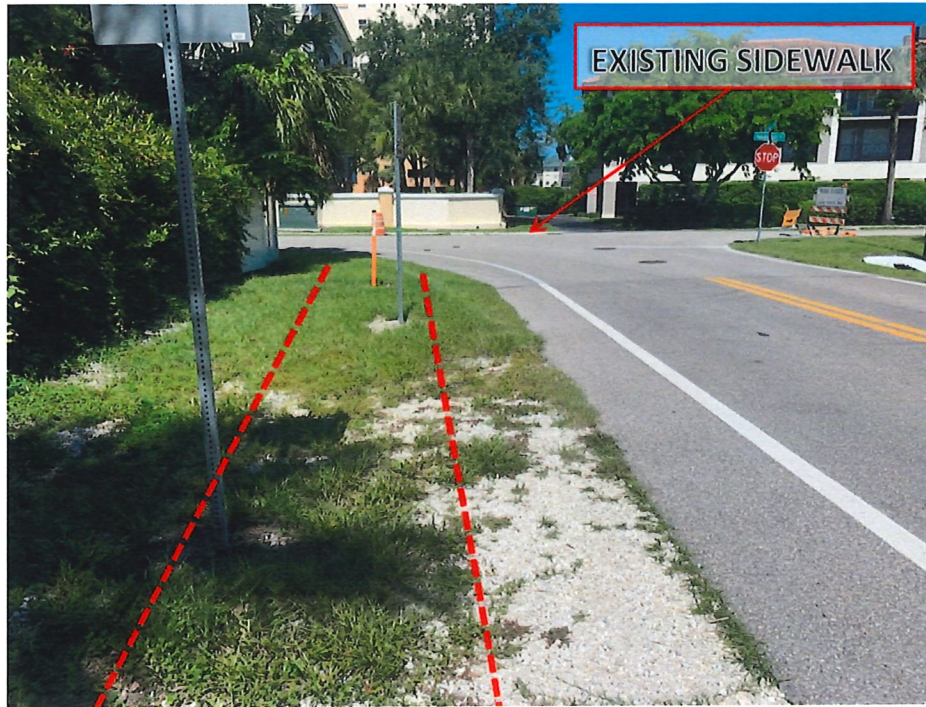
Please see the 2019 County Wide Pathway Constructability Study and Conceptual Planning Level Cost Estimate. These documents thoroughly describe the existing site conditions, the design parameters, constructability, project cost estimates, permitting and Long Range Transportation Planning.

- Number of culverts or pipes currently in place:
 - The Conceptual Planning Level Cost Estimate (referenced above and attached) includes a summary of the pay items and the descriptions.

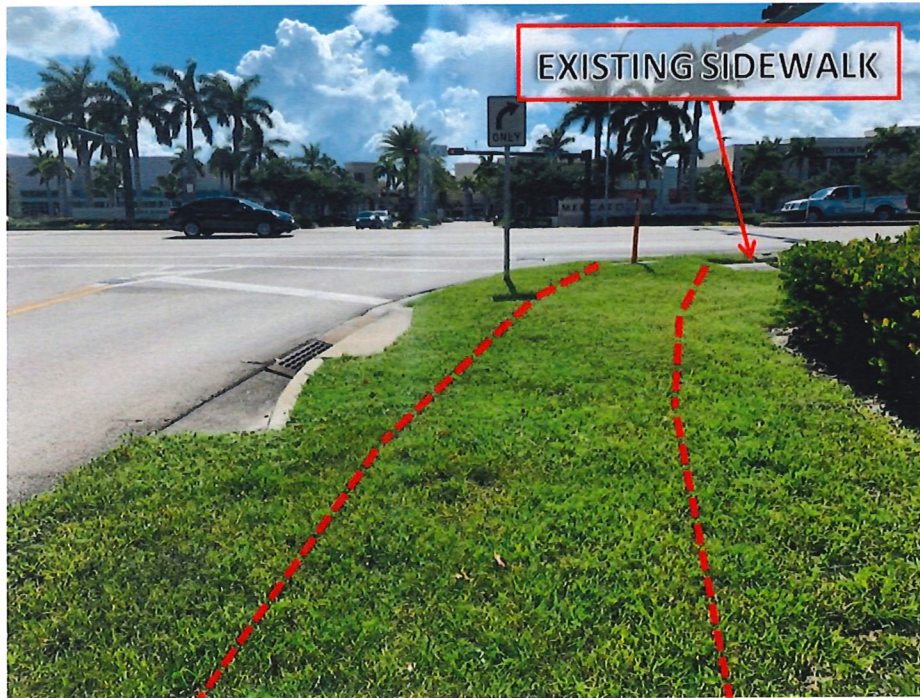
Additional specifications and information to be determined during final design.

- The existing drainage for 91st Ave. N from Vanderbilt Drive to U.S. 41 consists of sheet flow from the crowned roadway across grassed shoulder into the adjacent roadside swales. All drainage patterns should be maintained with any future pedestrian improvements. The runoff from the roadway should continue to sheet flow into the adjacent swale. Proposed modifications to the drainage facilities would likely include possible reconstruction of some of the driveway culverts, and piping sections of swale. All drainage modifications should be made to provide equivalent conveyance. No drainage or treatment impacts are expected from this project.
 - Based on the above drainage and environmental features, it is our understanding that the project qualifies for a SFWMD exemption under F.A.C. Rule 62.330-051(4)(c)4.a or F.A.C. Rule 62.330-051(10) for the proposed sidewalk. It is highly recommended that verification of qualification to conduct an exempt activity is received from SFWMD as described in F.A.C. Rule 62-330.050(2).
-
- Discuss lengths and locations of each culvert along the roadway:
 - Additional information regarding the design of the project will be available after the design.
 - Discuss the disposition of each culvert and inlet. Which culverts are “to remain” and which are to be replaced, upgraded, or extended?
 - Additional information regarding the design of the project will be available after the design.
 - Discuss drainage ditches to be filled in?
(Discuss limits and quantify fill in cubic yards)
 - Additional specifications and information will be determined during final design. All existing drainage conveyances will be maintained and/or replaced in-kind as part of the project.
 - Describe the proposed conveyances system (add additional pages if needed.)
 - Additional specifications and information will be determined during final design.
 - Are there any existing permitted stormwater management facilities/ponds within the project limits? Yes ☐ No ☒
 - If yes, provide the location and permit number (add additional pages if needed)
Click here to enter text.

- Discuss proposed stormwater management permits needed for the improvements.
 - The existing drainage for 91st Ave. N from Vanderbilt Drive to U.S. 41 consists of sheet flow from the crowned roadway across grassed shoulder into the adjacent roadside swales. All drainage patterns should be maintained with any future pedestrian improvements. The runoff from the roadway should continue to sheet flow into the adjacent swale. Proposed modifications to the drainage facilities would likely include possible reconstruction of some of the driveway culverts, and piping sections of swale. All drainage modifications should be made to provide equivalent conveyance. No drainage or treatment impacts are expected from this project.
 - Additional specifications and information to be determined during final design. Based on the anticipated project impacts, an Environmental Resource Permit (ERP) modification or new ERP will likely be required.
- List specific utilities within project limits and describe any potential conflicts (add additional pages if needed):
 - Additional utility information is provided in the 2019 County Wide Pathway Constructability Study.
 - Based on the visual inspection performed during the site visit, it is recommended that a 5-ft concrete sidewalk be constructed at the southeast corner of the intersection and have an offset of 3-ft from the edge of pavement. To construct the sidewalk, it is recommended that existing signage, fiber optic cable, and utilities on the south side of the corridor be relocated to not affect the proposed sidewalk boundaries.
 - At U.S. 41 it is recommended that the proposed 5-ft sidewalk maintain the 3-ft offset from the edge of pavement. There is an existing sidewalk on the west side of U.S. 41. It is recommended that the proposed sidewalk be connected to the existing sidewalk.
 - There is existing signage and a possible utility conflict within the 5-ft sidewalk boundary. To construct the proposed sidewalk, it is recommended that the signage be adjusted accordingly and the utilities either be relocated or incorporated into the proposed sidewalk.



91st Ave. N. and Vanderbilt Drive Sidewalk Alignment



91st Ave. N. and US 41 Sidewalk Alignment



91st Ave. N. and US 41 Sidewalk Alignment and Utility Conflict

- Discuss Bridges within project limits?
 - There are no bridges within the project limits.
- Can bridges accommodate proposed improvements? Yes ☐ No ☐

If no, what bridge improvements are proposed? (Offset and dimensions of the improvements, add additional pages if needed):

9. Has Right-of-way (ROW), easements, or ROW activity already been performed/acquired for the proposed improvements? If yes, please provide documentation

Yes ☒ No ☐

If ROW or Easements are needed detail expected area of need (acreage needed, ownership status):

No additional ROW or easements are anticipated as part of the project.
 Click here to enter text.

10. Discuss required permits (ERP, Drainage, Driveway, Right of Way, etc.): Please refer to the 2019 County Wide Pathway Constructability Study section 5.5 Permitting related to the SFWMD and Environmental.

No wetlands were identified within the alignment corridor during desktop review or the

September 4, 2019 site review. As such, wetland permitting with the SFWMD and USACE is not anticipated for the proposed alignment. No listed species utilization was observed within the proposed pathway corridor during the preliminary site review. Additionally, review of the FWC Eagle Nest Locator indicates there are currently no known bald eagle nests located within 660 feet of the proposed alignment. The project is located within the FWS FBB Consultation Area. However, during the site review no potential roosting habitat was located within the project area. Based on no potential roosting habitat being found within the project area and the project being less than 50 acres, the FWS Consultation Key indicates the project "may affect, but is not likely to adversely affect" the FBB and therefore does not require consultation with the FWS for effects on the FBB. The maintained right-of-way generally does not provide optimal habitat for listed species utilization. However, species such as the gopher tortoise and burrowing owl have been known to utilize disturbed areas such as a road right-of-way. As such, pre-construction surveys for listed species are recommended within 90-days of construction related activities. Should it become necessary to move listed species from the project area at that time, appropriate permits will need to be obtained from the applicable wildlife agencies to conduct required relocations.

If none are needed, state the qualified exemption:

[Click here to enter text.](#)

11. Are there any wetlands within the project limits? Yes ☐ No ☒

If yes, list the type of wetlands, estimated acreage and if mitigation will be required. Please note whether the project is within the geographic service area of any approved mitigation banks. Provide any additional information:

No wetlands were identified within the alignment corridor during desktop review or the September 4, 2019 site review.

12. Are there any federal or state listed/protected species within the project limits? Yes ☐ No ☒

If yes, list the species and what, if any mitigation or coordination will be necessary:

The maintained right-of-way generally does not provide optimal habitat for listed species utilization. However, species such as the gopher tortoise and burrowing owl have been known to utilize disturbed areas such as a road right-of-way. As such, pre-construction surveys for listed species are recommended within 90-days of construction related activities. Should it become necessary to move listed species from the project area at that time, appropriate permits will need to be obtained from the applicable wildlife agencies to conduct required relocations. In order to avoid any taking of listed species that may move into the project area in the future, it is recommended that pre-construction surveys for the presence of listed species be conducted within 9-days of construction-related activities.

If yes, discuss critical habitat within the project limits: [Click here to enter text.](#)

13. Discuss whether any prior reviews or surveys have been completed for historical and archaeological resources (include year, project, results)

None.

14. Are any Recreational, historical properties or resources covered under section 4(f) property within the project limits? Yes ☐ No ☒
(Provide details) Click here to enter text.

15. Discuss whether any prior reviews or surveys have been completed for sites/facilities which may have potential contamination involvement with the proposed improvements. This should include a discussion of locations which may directly impact the project location or be which may be exacerbated by the construction of the proposed improvements. None.

16. Are lighting improvements requested as part of this project? Yes ☐ No ☒
Please provide a lighting justification report for the proposed lighting. Click here to enter text.

17. Is a mid-block crossing proposed as part of the project? Yes ☐ No ☒
If yes, please provide the justification for mid-block crossing. Click here to enter text.

Required Attachments

- A. Detailed Project Scope with Project Location Map with sufficient level of detail (Please include typical section of proposed improvements)
- B. Project Photos – dated and labeled (this is important!)
- C. Detailed Cost Estimates including Pay Items
- D. LRTP and Local CIP page
- E. Survey/As-builts/ROW documentation/Utility/Drainage information
- F. Detailed breakdown of ROW costs included in estimate (if ROW is needed/included in request or estimate)

Applicant Contact Information

Agency Name: Collier County Board of County Commissioners

Mailing Address: 2685 S. Horseshoe Dr., Suite 103, Naples, FL 34104

Contact Name and Title: Lorraine Lantz, AICP; Principal Planner

Email: Lorraine.Lantz@CollierCountyFL.gov

Phone: (239) 252-5779

Signature:  **Date:** 12/23/20

Your signature indicates that the information included with this application is accurate.

Maintaining Agency: Collier County Board of County Commissioners

Contact Name and Title: Trinity Scott, Transportation Planning Manager

Email: Trinity.Scott@CollierCountyFL.gov

Phone: (239) 252-5832

Signature:  **Date:** 12/23/2020

Your signature serves as a commitment from your agency to maintain the facility requested.

MPO/TPO: Collier MPO

Contact Name and Title: Anne McLaughlin, Executive Director

Email: Anne.McLaughlin@CollierCountyFL.gov

Phone: (239) 252-5884

Signature: _____ **Date:** _____

Your signature confirms the request project is consistent with all MPO/TPO plans and documents, is eligible, and indicates MPO/TPO support for the project.

Additional required Questions and Answers

1. Project Relationship to Bicycle and Pedestrian Master Plan (BPMP) (*Demonstrate where/how project is Identified in the Network Needs analysis (Chapter 5) – provide page number, table, map, appendices if relevant, and/or identified in local plan adopted by reference, specify which Plan*)

As mentioned above regarding consistency, this project is included in the MPO's Bicycle and Pedestrian Master Plan, in various appendices and numerous public comments. Citizens have requested this project because there are currently insufficient pedestrian facilities to Mercato and for safety reasons. The project is in the vicinity of an elementary school, in the vicinity of transit and located in an Environmental Justice area.

2. If this is a design and/or construction project, describe how it addresses the Design Guidelines in Chapter 6 of the BPMP. (*attach pages or documentation if needed.*)

The design of this project will utilize the two FDOT publications, the current edition of the Florida Greenbook and the Florida Design Manual, mentioned in Chapter 6 of the BPMP.

3. Describe how this project is consistent with the policies contained in Chapter 7 of the BPMP. (*Attach additional pages or documentation if needed.*)

This project focuses on building a convenient multimodal network, public safety, and connectivity.

- A. Detailed Project Scope with Project Location Map with sufficient level of detail (Please include typical section of proposed improvements)

Please see the 2019 County Wide Pathway Constructability Study (Location No. 2) and Conceptual Planning Level Cost Estimate. These documents thoroughly describe the existing site conditions, the design parameters, constructability, project cost estimates, permitting and Long Range Transportation Planning.

- B. Detailed Cost Estimates including Pay Items

Please see the 2019 County Wide Pathway Constructability Study (Location No. 2 – 91st Ave. N. from Vanderbilt Dr. to US 41) and Conceptual Planning Level Cost Estimate.

Table 5-4: Conceptual Planning Level Cost Estimate

Item	Cost
Design / Permitting*	\$ 73,900
Pathway Construction	\$492,700
Administration / CEI**	\$ 73,900
Total	\$640,500

**Assumed Approximately 15% of Construction Related Cost*

***Assumed Approximately 15% of Construction Related Cost*

- C. Project Photos – dated and labeled (this is important!)

Please see the 2019 County Wide Pathway Constructability Study. This document includes proposed typical sections, site maps and project photos.



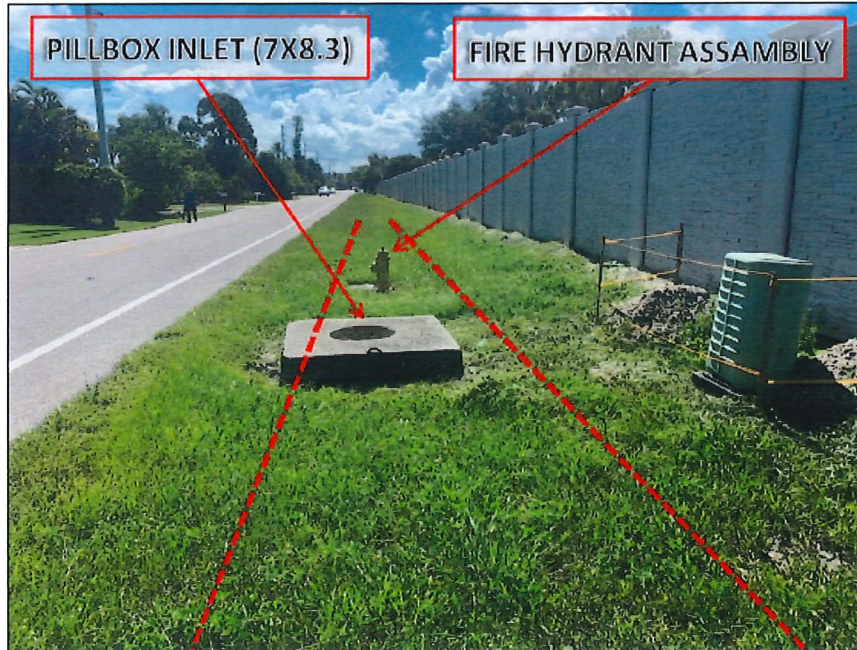


Figure 5-8: 91st Avenue N and 8th Street N Sidewalk Alignment and Drainage (East)

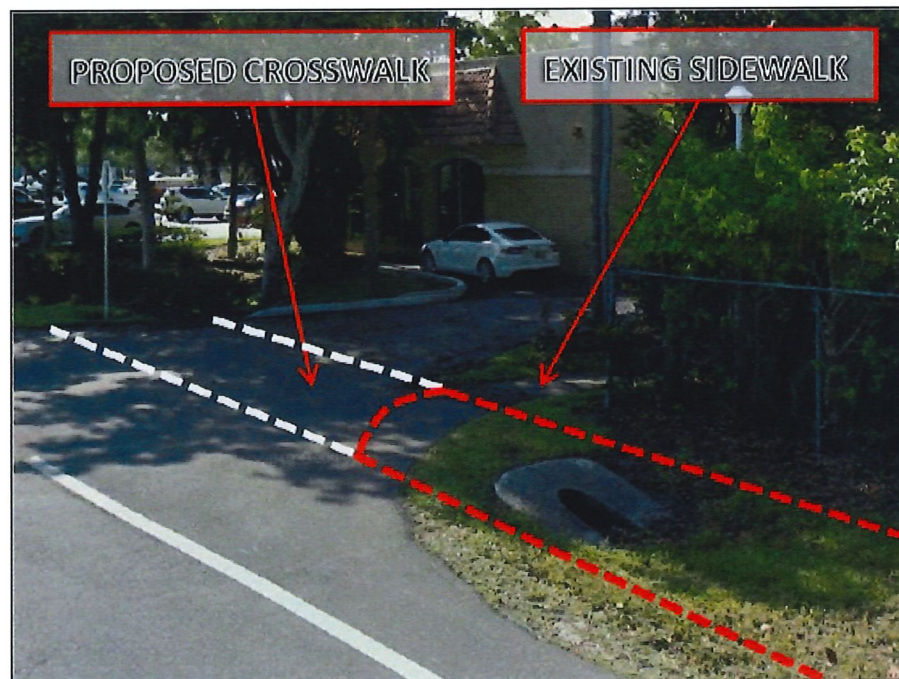


Figure 5-9: 91st Avenue N and Rear Entrance at 9051 Tamiami Trail N Sidewalk Alignment and Crosswalk

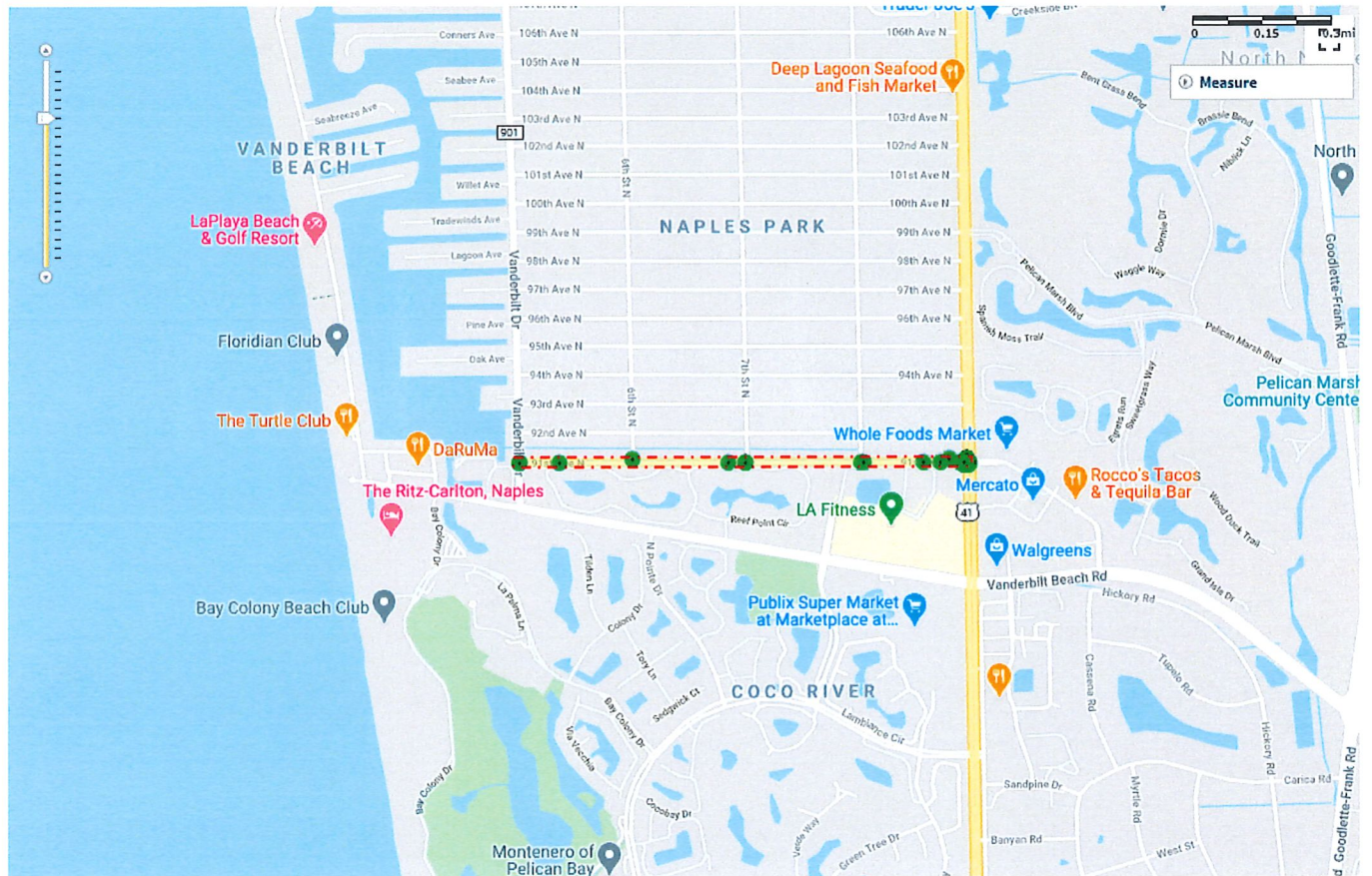


Figure 5-10: 91st Avenue N and Main Entrance at 9051 Tamiami Trail N Sidewalk Alignment and Crosswalk

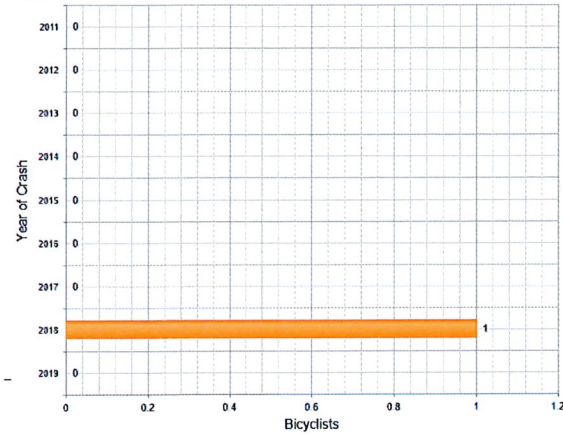


Figure 5-11: 91st Avenue N and Main Entrance at 9051 Tamiami Trail N Sidewalk Alignment (East)

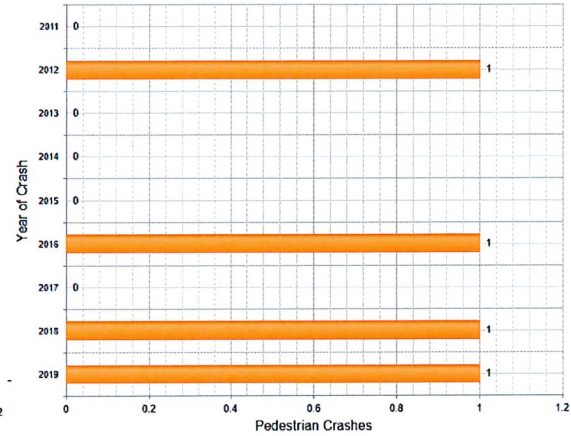
The following charts, graphs and information is derived from the Collier County Crash Data Management System in December 2020.



Bicyclists by Year of Crash



Pedestrian Crashes by Year of Crash



D. LRTP and Local CIP page

Table ES-6. Collier MPO 2045 LRTP Cost Feasible Plan Projects – FDOT Other Roads Projects and Local Roadway Projects
Draft 11/12/2020 (in millions \$)

Map ID	Facility	Limits from	Limits to	Description	Total Project Cost (YOC 2019 \$)	TP Funding 2021-25 (YOE)	Plan Period 1 (TP): 2020-2021			Plan Period 2: 2022-2023			Plan Period 3: 2024-2025			Plan Period 4: 2026-2045			Total Cost 2020-2045 (YOE \$ without \$0)	Total \$/M Costs	County	OA PRE-ENG	OA ROW and CST	Funding Source	
							PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST							
PLAN PERIOD 2 CONSTRUCTION FUNDED PROJECTS																									
12	Everglades Blvd	Vanderbilt Blvd Ext.	Randall Blvd	Widen from 2 Lanes to 4 Lanes	\$12.80					15.59	52.36	155.35							\$43.27	\$43.27				County	
23	75 (SR 93) Interchange (New)	Golden Gate Pkwy		Interchange improvement	\$9.59					10.58		112.34							\$12.81		\$0.58	\$12.24	OA		
25	75 (SR 93)	Irmoakalee Rd		Interchange improvement (DOT or approved)	\$9.59					10.58		112.34							\$12.81		\$0.58	\$12.24	OA		
37	2nd West Blvd / CR 858 (SR 144)	Everglades Blvd	2nd West Blvd	Widen from 2 Lanes to 4 Lanes	\$16.78	\$1.81	\$0.91		\$0.80	15.73		142.11							\$48.83	\$48.83				County	
57	US 41 (SR 93) (Tampa Bay Trail E)	Goodlette Frank Rd		Major Intersection improvement	\$13.00					10.61	52.97	118.40							\$17.01		\$0.63	\$16.38	OA		
58	US 41 (SR 93) (Tampa Bay Trail E)	Greenway Rd	1st Farm Rd	Widen from 2 Lanes to 4 Lanes	\$11.88					11.91	54.46	113.58							\$41.90		\$3.01	\$37.88	OA		
66	Irmoakalee Rd	Livingston Rd		Major Intersection improvement	\$24.50							136.40							\$26.32	\$26.32				County	
78	Golden Gate Pkwy (Interchange)	Livingston Rd		Major Intersection improvement	\$24.50					15.61		136.40							\$12.45	\$12.45				County	
111	US 41	Irmoakalee Rd		Intersection improvement	\$17.50					15.13		120.12							\$23.24		\$3.11	\$20.12	OA		
PLAN PERIOD 3 CONSTRUCTION FUNDED PROJECTS																									
39	3rd US 41	US 41	Lee/Collier County line	Widen from 2 Lanes to 4 Lanes	\$22.59					13.81	51.70					158.06			\$55.01		\$3.85	\$51.16	OA		
42	Randall Blvd	8th St NE	Everglades Blvd	Widen from 2 Lanes to 4 Lanes	\$11.57					17.29	55.35					146.04			\$77.67	\$77.67				County	
59	US 41	Collier Blvd		Major Intersection improvement	\$17.25					12.81						112.66			\$26.47		\$2.81	\$23.66	OA		
60	US 41 (SR 93) (Tampa Bay Trail E)	Irmoakalee Rd	3rd US 41	Further Study Required (Complete Feasibility Study for ROW) improvement	\$17.25					10.46						112.66			\$26.12		\$2.46	\$23.66	OA		
90	Prime Ridge Rd	Logan Blvd	Collier Blvd	Widen from 4 Lanes to 6 Lanes	\$21.72					11.97						154.52	115.00		\$11.51	\$11.51				County	
PRE-ENG includes POB& Design Present Day Cost Right-of-Way Construction YOE = Year of Expenditure																									

PRE-ENG includes POB and Design Present Day Cost Right-of-Way Construction YOE: Year of Expenditure

Table ES-6. Collier MPO 2045 LRTP Cost Feasible Plan Projects – FDOT Other Roads Projects and Local Roadway Projects (continued)
Draft 11/12/2020 (in millions \$)

Map ID		Facility	Limits from	Limits to	Description	Total Project Cost (YOC 2019 \$)	TP Funding 2021-25 (YOE)	Plan Period 1 (TP): 2019-2021			Plan Period 2: 2022-2023			Plan Period 3: 2024-2025			Plan Period 4: 2026-2045			Total Cost 2019-2045 (YOE \$ without \$0)	Total \$/M Costs	County	OA PRE-ENG	OA ROW and CST	Funding Source
								PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST						
PLAN PERIOD 4 CONSTRUCTION FUNDED PROJECTS																									
11	Everglades Blvd	Handall Blvd	South of Gil Wolf Rd	Widen from 2 Lanes to 4 Lanes	\$16.42								\$3.00	\$13.33					\$36.33	\$29.18	\$29.18			County	
22	75 (SR 93) Interchange (new)	West of Everglades Blvd		New Interchange	\$42.26					\$3.76			\$1.30	\$4.32					\$35.48	\$73.03	\$9.07	\$63.97	OA		
31	Irmoakalee Rd (CR 848)	US 29	Argway Blvd	Widen from 2 Lanes to 4 Lanes	\$3.90											\$0.77	\$0.55	\$5.88	\$7.20	\$7.20				County	
16	Logan Blvd	Prime Ridge Rd	Vanderbilt Beach Rd	Widen from 2 Lanes to 4 Lanes	\$22.23					\$3.40					\$13.16				\$32.31	\$18.87	\$18.87			County	
69	Weston Street Ext.	US 199	West of Carlson Rd	New 2-Lane Road	\$3.03								\$0.51				\$0.53	\$4.40	\$5.51	\$5.51			County		
65	Wilson Blvd	Seaside Ave	Golden Gate Blvd	New 2-Lane Road (Expandable to 4 Lanes)	\$36.15								\$8.82	\$4.21				\$30.12	\$63.35	\$63.35			County		
97	Irmoakalee Rd (Interchange)	Logan Blvd		Major Intersection Improvement	\$11.50								\$2.12					\$18.35	\$20.67	\$20.67			County		
99	Vanderbilt Beach Rd (Interchange)	Logan Blvd		Minor Intersection Improvement	\$11.50								\$2.12					\$18.35	\$20.67	\$20.67			County		
101	Prime Ridge Rd	Goodlette-Frank Rd		Minor Intersection Improvement	\$5.75											\$1.23		\$9.28	\$10.48	\$10.48			County		
C1	Connector Roadway from 75 Interchange (New)	Golden Gate Blvd	Vanderbilt Beach Rd	4-Lane Connector Roadway from New Interchange (Specific Location TBD During Interchange PD&E Study)	\$17.57					\$0.44			\$2.80	\$1.62				\$26.26	\$11.14		\$3.24	\$27.90	OA		
C2	Connector Roadway from 75 Interchange (New)	75 (SR 93)	Golden Gate Blvd	4-Lane Connector Roadway from New Interchange (Specific Location TBD During Interchange PD&E Study)	\$80.59					\$2.00			\$13.18	\$7.41				\$130.02	\$142.70		\$15.28	\$127.41	OA		

PRE-ENG includes PO&E and Design

Present Day Cost

Right-of-Way

Construction

YOE: Year of Expenditure

PRE-ENG includes POB and Design Present Day Cost Right-of-Way Construction YOE: Year of Expenditure

Attachment D
Roads & Bridges
2021 5 Year Work Program
(Dollars shown in Thousand)

[illegible]

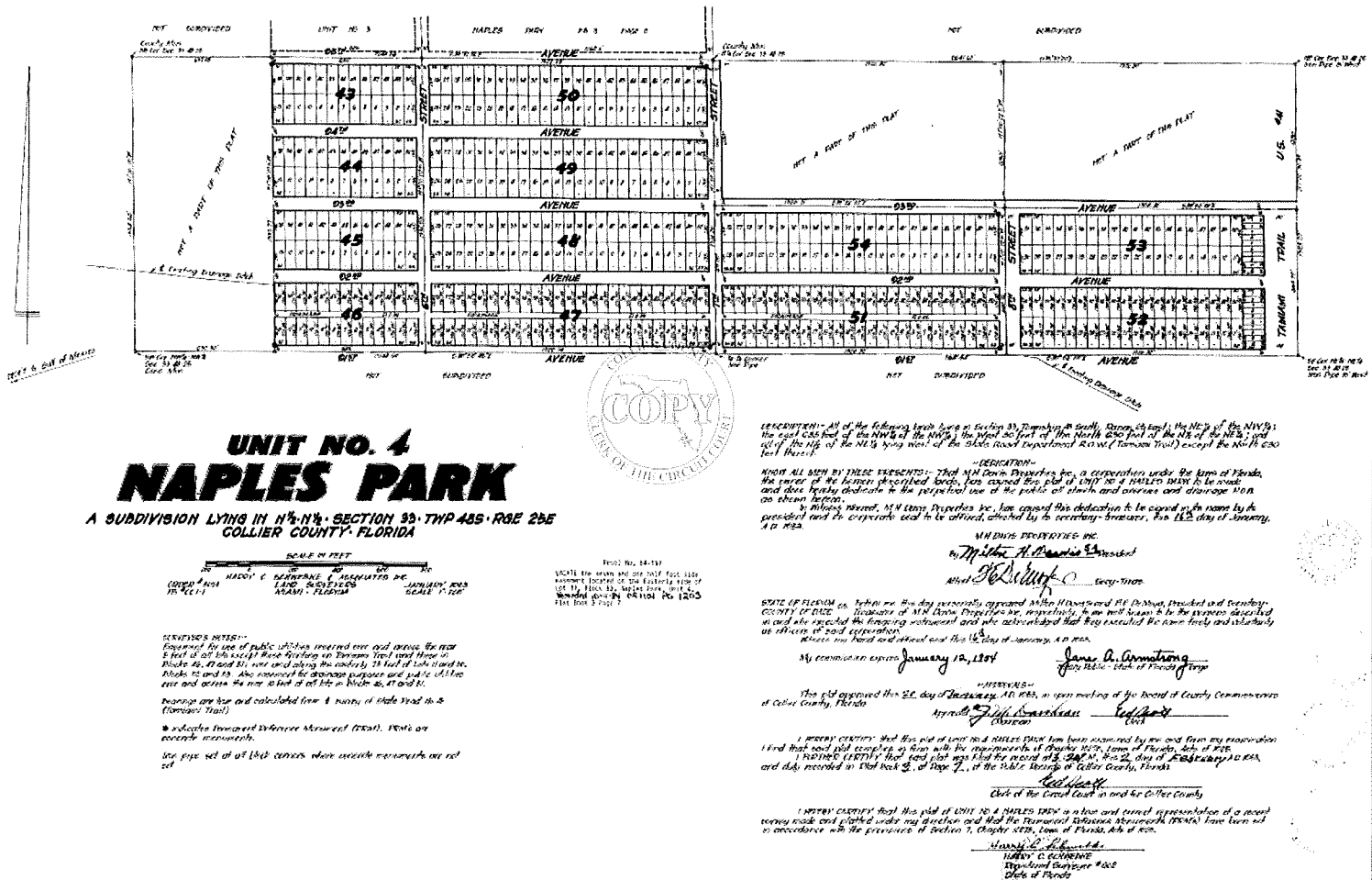
Abb.
 A = Adj Connotation (0 = Study / 0 = Design
 C = Unpaired / C = Connotation (0 = PRR
 L.S = Landscape (L = Design / L = Inspiration
 AM = Avenue / M = L.P. = L.L. L.L. Inspiration
 S = Specific Inspiration
 *The School, Local Religion, Part Time, and other school activities, bridges, and other school activities

Q0103		FY21	FY22	FY23	FY24	FY25	FY 21-25
Q0215	Waterfall Bridge Lot		74,700				14,000
Q0212	Pine Ridge Rd. (Integration Information Imp)	1,000		11,000			13,000
Q0212.1	F1 Bridge Replacement	31,000					13,000
1003				3,000			7,000
Q0225	Gravel/Waterfall Rd Intersection		6,000				4,000
	Alphabet Rd VOR Intersect Rd						0,000
	Triangle Road/Price St	6,000					10,134
	New Garden Oaks Bridges (11)		15,000	2,514			0,000
	ATIS Street Bridge	4,000			9,000		0,000
	ATIS Street Bridge	1,010					0,000
	Waterfalls			1,201	4,000		0
Total		40,010	95,701	12,205	15,000	-	10,000

E. Survey/As-builts/ROW documentation/Utility/Drainage information

ROW Documentation - Plat Book 3, Page 7 - Naples Park Unity #4, January 1953

Plat Book 3 Page 7



F. Detailed breakdown of ROW costs included in estimate (if ROW is needed/included in request or estimate)

This Project is expected to keep within the existing right-of-way and not require any additional right-of-way acquisition.



District One
Priority Project Information Packet

***Please fill out this application completely. Please ensure all attachments are LEGIBLE
Applications containing insufficient information will not be reviewed by the FDOT.***

Name of Applying Agency: Collier County BCC – Growth Management Division

Project Name: Vanderbilt Beach Road Corridor Study from Airport-Pulling Rd. to Livingston Rd.

Project Category:

Congestion Management ☒ TRIP ☐ CIGP ☐ **SU Bike-Ped** ☐

Transportation Alternative ☐ Transit/Modal ☐ SCOP ☐ SCRAP ☐

For more information on State Grant Programs (CIGP, SCOP, SCRAP, TRIP) [please click here.](#)

Is applicant LAP certified? Yes ☒ No ☐

Is project on State Highway System? Yes ☐ No ☒
If the project is off the state system and the applicant is LAP certified the project will be programmed as a LAP project.

Is the roadway on the Federal Aid Eligible System? Yes ☒ No ☐

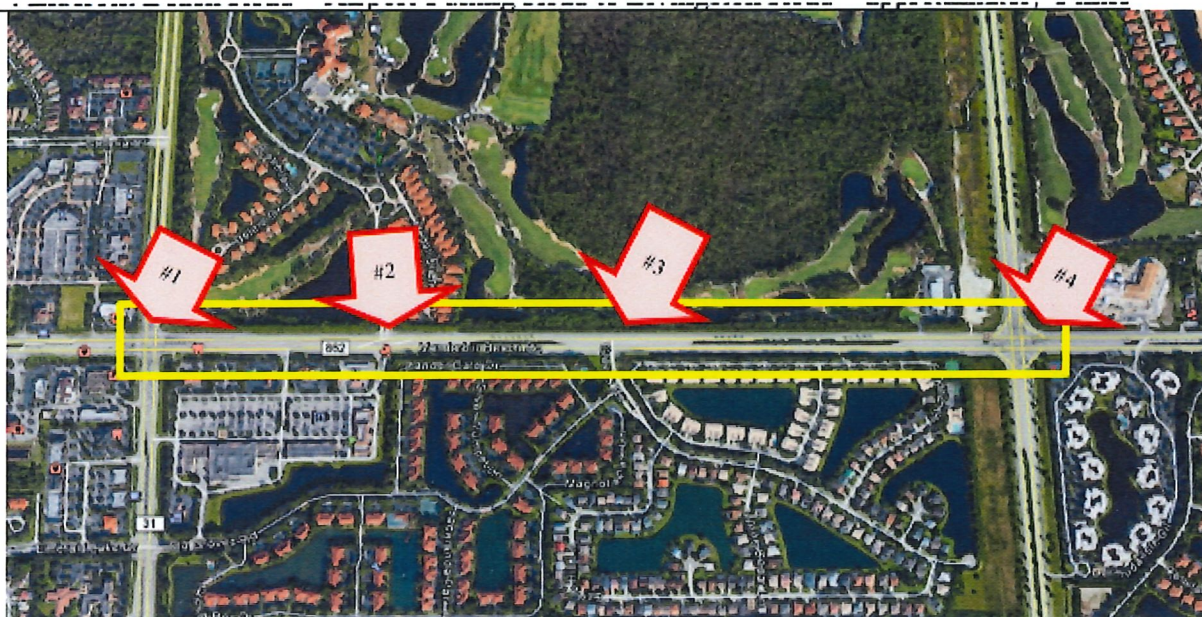
If yes, provide Federal Aid roadway number: # 03512000
enter text. If no, give local jurisdiction: Collier County,
Florida. Click here to enter text.
<http://www.fdot.gov/statistics/fedaid/>

Detailed Project Limits/Location:

Vanderbilt Beach Road (VBR) – Airport-Pulling Road to Livingston Road – approximately 1 mile

south to north or west to east. Include jurisdiction (city/county), project length, attach a labeled project, map.

The general objective for this project is to contract with a consultant to provide professional Transportation planning/engineering and technical support to Collier County Transportation Planning staff in order to evaluate the current and future levels of traffic congestion within the VBR corridor, and to identify and evaluate potential improvements to reduce congestion within the corridor. This project should also consider all multi-modal aspects of the roadway including coordination with transit and bicycle and pedestrian facilities. The project will also include utility coordination and analysis. The result of the study will be draft conceptual plans and cross sections which define typical sections, ROW widths, utility needs and potential pond sites (if necessary). It is expected that an engineer will be able to use the concept plans to develop the draft 30% plans.



Intersections:

1. Airport-Pulling Rd.
2. Tiburon Dr.
3. Groves Rd.
4. Livingston Rd.

A study of the corridor will look at the physical roadway capacity now and, in the future, and determine ways to enhance or improve the corridor. The study is intended to include intersection analysis as recommended in Action Item #2 on page 3-10 and will follow the FDOT Intersection Control Evaluation (ICE) or the most current evaluation tools. The study tasks will include:

1. Traffic Data Collection
2. Land Use Data Collection
3. Existing Conditions and LOS Analysis
4. Future Conditions LOS Analyses
5. Identification and Evaluation of Alternatives
6. Public Involvement Activities

Discuss how this project is consistent with the MPO/TPO Long Range Transportation Plan?

Page Number (attach page from LRTP): An intersection improvement at VBR and Livingston Rd. is included in the 2045 LRTP Needs plan on page ES-15 and the Cost Feasible Plan – Partially Funded Projects (FY2026-2045) on page ES-32, it is also found on page 4-37 and 6-9. An intersection improvement at VBR and Airport-Pulling Rd. is listed as a Need on page ES-16, 4-38 and 6-18. The 2045 LRTP was adopted by the MPO on December 11, 2020.

This project is included in the MPO's Bicycle and Pedestrian Master Plan, in various appendices and numerous public comments. Citizens indicated that VBR does not feel safe to

ride a bike and there should be wider sidewalks along the corridor.

This project is included in the MPO's Transportation System Performance Report & Action Plan adopted by the MPO in September 2020. It is listed as a Tier 1 Hot Spot Congestion Location based on Safety, Speed and Public Feedback. It is also listed as a Top Safety Concern for the intersections at VBR at Airport and VBR at Livingston and is Action Item #2 on page 3-10. In addition, this project is on the 2020 CMP Implementation Matrix.

Table 6-3. Collier MPO 2045 LTRP Cost Feasible Plan Projects – Partially Funded Projects (FY2026–FY2045)
(in millions \$)

Map ID	Facility	Limits from	Limits to	Description	Total Project Cost (FY2023-25)	Plan Period 1: 2023-2025			Plan Period 2: 2026-2030			Plan Period 3: 2031-2035			Plan Period 4: 2036-2045			Total Cost (FY2023-25) without P&E	County	OA P&E Cost	OA ROW and CST	Funding Source
						P&E Cost	ROW	CST	P&E Cost	ROW	CST	P&E Cost	ROW	CST	P&E Cost	ROW	CST					
1	Sanford Rd (SR 90)	The Larch Way	City Gate Blvd N	New 2-Lane Road (expandable to 4-lanes)	\$17.31	\$11.00	\$4.00	\$2.31	\$4.00	\$4.00		\$3.00						\$9.00	\$0.00			County
5	Big Cypress Pkwy	Mendenhall Beach Rd Ext.	City Gate Blvd N	New 2-Lane Road (expandable to 4-lanes)	\$17.31										\$7.75	\$4.04		\$11.74	\$11.74			County
10	Imperial Hwy (SR 844)	Carroll Ave	Sanford Rd	Full-Depth Overlay (expandable to 4-lanes)	\$2.00				\$2.00									\$2.00	\$2.00			County
13	20th Avenue Rd Ext.	SR 92	Whitcomb St.	New 2-Lane Road	\$40.00										\$8.48	\$7.33		\$15.81	\$15.81			County
42	Sanford Blvd (Hwy 90)	Imperial Hwy	Imperial Hwy	Full-Depth Overlay (expandable to 4-lanes)	\$10.00	\$0.75	\$8.00								\$3.45			\$9.48	\$9.48	\$0.00	\$0.00	OA
55	SR 844 (Grove Blvd)	Airport Pkwy	Sanford Blvd	Widening from 4-lanes to 6-lanes	\$40.25							\$0.94			\$9.21			\$55.83	\$55.83	\$5.95	\$45.88	OA
62	Sanford Blvd	Everglades Blvd	Big Cypress Pkwy	New 2-Lane Road (expandable to 4-lanes)	\$41.27										\$8.35	\$18.87		\$24.46	\$24.46			County
69	Everglades Blvd	City Gate Blvd	Imperial Hwy	Widening from 2-lanes to 4-lanes	\$72.75				\$33.17	\$15.00								\$48.58	\$48.58			County
74	Imperial Hwy (SR 844)	Sanford Blvd	Imperial Hwy	Major intersection improvement	\$17.25										\$4.00			\$4.00	\$4.00			OA
83	Imperial Hwy	SR 92	SR 844	Widening from 2-lanes to 4-lanes	\$9.79										\$3.25	\$0.44		\$2.74	\$2.74			County
94	Sanford Blvd	Imperial Hwy	Imperial Hwy	New 4-Lane Road	\$23.41										\$5.84	\$1.96		\$4.00	\$4.00			County
98	Sanford Blvd	Imperial Hwy	Imperial Hwy	Minor intersection improvement	\$11.50										\$3.40			\$2.40	\$2.40			County
102	SR 844 (SR 90) (Turnpike)	Mendenhall Beach Rd	Imperial Hwy	Major intersection improvement	\$2.50										\$1.90			\$4.00	\$4.00			OA
103	SR 844 (SR 90) (Turnpike)	SR 844	Imperial Hwy	Major intersection improvement	\$2.50										\$1.90			\$4.00	\$4.00			OA
104	SR 844 (SR 90) (Turnpike)	Imperial Hwy	Imperial Hwy	Major intersection improvement	\$3.50	\$0.27	\$0.23								\$4.00			\$4.00	\$4.00			OA

Table 6-9. Collier County 2045 LRTP - Unfunded Roadway Needs Projects

Map ID	Project	From	To	Project Description
45	Santa Barbara Blvd.	Painted Leaf Ln.	Green Blvd.	Widen from 4 Lanes to 6 Lanes
67	Veterans Memorial Blvd. Extension	Strand Blvd.	I-75	New 4-Lane Road
68	Big Cypress Parkway Intersection (new)	Oil Well Grade Rd.		New At-Grade Intersection
70	Green Blvd. Extension	Everglades Blvd.	Big Cypress Parkway	New 2-Lane Road
73	Immokalee Rd. (CR 846) Intersection	Collier Blvd. (CR 951)		Major Intersection Improvement
75	I-75 (SR-93) Interchange (new)	Veterans Memorial Blvd.		New Partial Interchange
76	Vanderbilt Dr.	Immokalee Rd.	Woods Edge Parkway	Widen from 2 Lanes to 4 Lanes
95	Golden Gate Parkway (Intersection)	Goodlette-Frank Rd.		Major Intersection Improvement
96	Pine Ridge Road (Intersection)	Airport Pulling Rd.		Major Intersection Improvement
100	Collier Boulevard (Intersection)	Pine Ridge Rd.		Major Intersection Improvement
107	Golden Gate Pkwy.	Collier Blvd.		Major Intersection Improvement
108	Vanderbilt Beach Rd.	Airport Pulling Rd.		Intersection Innovation/Improvements
109	Immokalee Rd.	Goodlette-Frank Rd.		Intersection Innovation/Improvements
110	Immokalee Rd.	Airport Pulling Rd.		Intersection Innovation/Improvements
112	Airport Pulling Rd.	Orange Blossom		Intersection Innovation/Improvements
113	Airport Pulling Rd.	Golden Gate Pkwy.		Intersection Innovation/Improvements
114	Airport Pulling Rd.	Radio Rd.		Intersection Innovation/Improvements

Discuss the project in the local jurisdiction's Capital Improvement Plan?
 (Attach page from CIP): Click here to enter text. This project is not budgeted in the Collier County CIP at this time. Full funding is being requested by this application.

Project Description

Phase(s) requested:

Planning Study ☒ PD&E ☐ PE ☐ ROW ☐ CST ☐ CEI ☐

Project cost estimates by phase (Please include detailed cost estimate and documentation in back-up information):

Phase (PD&E, ROW, PE, CST)	Estimated Total Cost	Funds Requested	Matching Local Funds	Local Fund Source	Type of Match (Cash, in-kind)
Study	300,000	\$00	\$0	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	\$0	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	\$0	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]

Total Project Cost: \$ 300,000.00

Project Details: Clearly describe the existing conditions and the proposed project and desired improvements in detail. Please provide studies, documentation, etc., completed

to-date to support or justify the proposed improvements. Include labeled photos and maps. (Add additional pages if needed):

VBR currently is classified as an Urban Major Collector that is Federal Aid Eligible. According to the adopted AUIR, this segment of VBR is currently a Level of Service (LOS) D and expected to fail in 2023. The road serves as a major east-west roadway and is the access point for several large residential communities and several shopping centers, businesses, standalone stores and out parcels. Currently, there are bicycle and pedestrian facilities on both sides of VBR to accommodate the volume of pedestrian traffic along the corridor. The posted speed limit within the project limit is 45 mph.

Constructability Review

For items 2-9 provide labeled and dated photos (add additional pages if needed)

1. Discuss other projects (ex. drainage, utility, etc.) programmed (local, state or federal) within the limits of this project?

- If programmed by the MPO/FDOT, the study is expected to be approximately 5 years into the future. Transportation Planning has been and will continue to coordinate with the on-going stormwater and utility projects in the vicinity. Once fully funded, the study is expected to be completed within 12-18 months.

2. Does the applicant have an adopted ADA transition plan? Yes ☒ No ☐

Identify areas within the project limits that will require ADA retrofit.
(Include GIS coordinates for stops and labeled photos and/or map.)

- There are no transit stops located within the project but there are two in the immediate vicinity of the project. They are located at the intersection of VBR and Airport-Pulling Rd.
- Collier Area Transit Bus Stop ADA Assessment Final Report Dated October 15, 2014.

3. Is there a rail crossing along the project? Yes ☐ No ☒

What is the Rail MP?

Enter MP

4. Are there any transit stops/shelters/amenities within the project limits? Yes ☐ No ☒

How many? Click here to enter text

- There are no transit stops located within the project.

Stop ID number: Click here to enter text.

5. Is the project within 10-miles of an airport?

Yes ☒

No ☐

- The project is approximately 6 miles from the Naples Municipal Airport.

6. Coordinate with local transit and discuss improvements needed or requested for bus stops?

(add additional pages if needed):

- As discussed above, Collier Area Transit (CAT) bus Route #12 is in the vicinity of the project but not have stops within the project limits.



7. Are turn lanes being added?

Yes ☐

No ☒

If yes, provide traffic counts, length, and location of involved turn lanes.
Click here to enter text.

8. Drainage structures:

This is a planning study, additional specification and information regarding the project will be available after the design.

- Number of culverts or pipes currently in place:
 - This is a planning study; no drainage or treatment impacts are expected at this phase of the project.
- Discuss lengths and locations of each culvert along the roadway:
 - This is a planning study, additional information will be available after design, and are not known at this phase of the project.
- Discuss the disposition of each culvert and inlet. Which culverts are “to remain” and which are to be replaced, upgraded, or extended?
 - This is a planning study, additional information will be available after design, and are not known at this phase of the project.
- Discuss drainage ditches to be filled in?
(Discuss limits and quantify fill in cubic yards)
 - Additional specifications and information to be determined during final design.
- Describe the proposed conveyances system (add additional pages if needed.)
 - Additional specifications and information to be determined during final design.
- Are there any existing permitted stormwater management facilities/ponds within the project limits? Yes ☐ No ☒
- If yes, provide the location and permit number (add additional pages if needed)
Click here to enter text.
- Discuss proposed stormwater management permits needed for the improvements.
 - This is a planning study, additional information will be available after design, and are not known at this phase of the project.

- List specific utilities within project limits and describe any potential conflicts (add additional pages if needed):
 - This is a planning study, additional information will be available after design, and are not known at this phase of the project
- Discuss Bridges within project limits?
 - There are no bridges within the project limits.
- Can bridges accommodate proposed improvements? Yes ☐ No ☐

If no, what bridge improvements are proposed? (Offset and dimensions of the improvements, add additional pages if needed):

9. Has Right-of-way (ROW), easements, or ROW activity already been performed/acquired for the proposed improvements? If yes, please provide documentation

Yes ☒ No ☐

If ROW or Easements are needed detail expected area of need (acreage needed, ownership status):

This is a planning study. No additional ROW or easements are anticipated as part of this project.

[Click here to enter text.](#)

10. Discuss required permits (ERP, Drainage, Driveway, Right of Way, etc.): Please refer to the 2019 County Wide Pathway Constructability Study section 5.5 Permitting related to the SFWMD and Environmental.

- This is a planning study, additional information will be available after design, and are not known at this phase of the project.

If none are needed, state the qualified exemption:

[Click here to enter text.](#)

11. Are there any wetlands within the project limits? Yes ☐ No ☒

If yes, list the type of wetlands, estimated acreage and if mitigation will be required. Please note whether the project is within the geographic service area of any approved mitigation banks. Provide any additional information:

- This is a planning study, additional information will be available after design, and are not known at this phase of the project.

12. Are there any federal or state listed/protected species within the project limits? Yes ☐ No ☒

If yes, list the species and what, if any mitigation or coordination will be necessary:

- The maintained right-of-way generally does not provide optimal habitat for listed species utilization, in addition, this is a planning study, additional information will be available after design, and are not known at this phase of the project.

If yes, discuss critical habitat within the project limits: Click here to enter text.

13. Discuss whether any prior reviews or surveys have been completed for historical and archaeological resources (include year, project, results)

None.

14. Are any Recreational, historical properties or resources covered under section 4(f) property within the project limits? Yes ☐ No ☒
(Provide details) Click here to enter text.

15. Discuss whether any prior reviews or surveys have been completed for sites/facilities which may have potential contamination involvement with the proposed improvements. This should include a discussion of locations which may directly impact the project location or be which may be exacerbated by the construction of the proposed improvements. None.

16. Are lighting improvements requested as part of this project? Yes ☐ No ☒
Please provide a lighting justification report for the proposed lighting. Click here to enter text.

17. Is a mid-block crossing proposed as part of the project? Yes ☐ No ☒
If yes, please provide the justification for mid-block crossing. Click here to enter text.

Required Attachments

- A. Detailed Project Scope with Project Location Map with sufficient level of detail (Please include typical section of proposed improvements)
- B. Project Photos – dated and labeled (this is important!)
- C. Detailed Cost Estimates including Pay Items
- D. LRTP and Local CIP page
- E. Survey/As-builts/ROW documentation/Utility/Drainage information
- F. Detailed breakdown of ROW costs included in estimate (if ROW is needed/included in request or estimate)

Applicant Contact Information

Agency Name: Collier County Board of County Commissioners

Mailing Address: 2685 S. Horseshoe Dr., Suite 103, Naples, FL 34104

Contact Name and Title: Lorraine Lantz, AICP; Principal Planner

Email: Lorraine.Lantz@CollierCountyFL.gov

Phone: (239) 252-5779

Signature:  **Date:** 12/23/20

Your signature indicates that the information included with this application is accurate.

Maintaining Agency: Collier County Board of County Commissioners

Contact Name and Title: Trinity Scott, Transportation Planning Manager

Email: Trinity.Scott@CollierCountyFL.gov

Phone: (239) 252-5832

Signature:  **Date:** 12/23/2020

Your signature serves as a commitment from your agency to maintain the facility requested.

MPO/TPO: Collier MPO

Contact Name and Title: Anne McLaughlin, Executive Director

Email: Anne.McLaughlin@CollierCountyFL.gov

Phone: (239) 252-5884

Signature: _____ **Date:** _____

Your signature confirms the request project is consistent with all MPO/TPO plans and documents, is eligible, and indicates MPO/TPO support for the project.

Additional required Questions and Answers

1. Project Relationship to Bicycle and Pedestrian Master Plan (BPMP) (*Demonstrate where/how project is Identified in the Network Needs analysis (Chapter 5) – provide page number, table, map, appendices if relevant, and/or identified in local plan adopted by reference, specify which Plan*)

As mentioned above regarding consistency, this project is included in the MPO's Bicycle and Pedestrian Master Plan, in the public comments. Citizens have requested this project because there are currently insufficient pedestrian facilities and for safety reasons.

2. If this is a design and/or construction project, describe how it addresses the Design Guidelines in Chapter 6 of the BPMP. (*attach pages or documentation if needed.*)

This is a Study. The ultimate design of this project will utilize the two FDOT publications, the current edition of the Florida Greenbook and the Florida Design Manual, mentioned in Chapter 6 of the BPMP.

3. Describe how this project is consistent with the policies contained in Chapter 7 of the BPMP. (*Attach additional pages or documentation if needed.*)

The study will focus on the feasibility of building a convenient multimodal network, public safety, and connectivity.

- A. Detailed Project Scope with Project Location Map with sufficient level of detail (Please include typical section of proposed improvements)

A study of the corridor will look at the physical roadway capacity now and, in the future, and determine ways to enhance or improve the corridor. The study is intended to include intersection analysis as recommended in Action Item #2 on page 3-10 and will follow the FDOT Intersection Control Evaluation (ICE) or the most current evaluation tools. The study tasks will include:

- 1. Traffic Data Collection*
- 2. Land Use Data Collection*
- 3. Existing Conditions and LOS Analysis*
- 4. Future Conditions LOS Analyses*
- 5. Identification and Evaluation of Alternatives*
- 6. Public Involvement Activities*



Intersections:

1. Airport-Pulling Rd.
2. Tiburon Dr.
3. Groves Rd.
4. Livingston Rd.

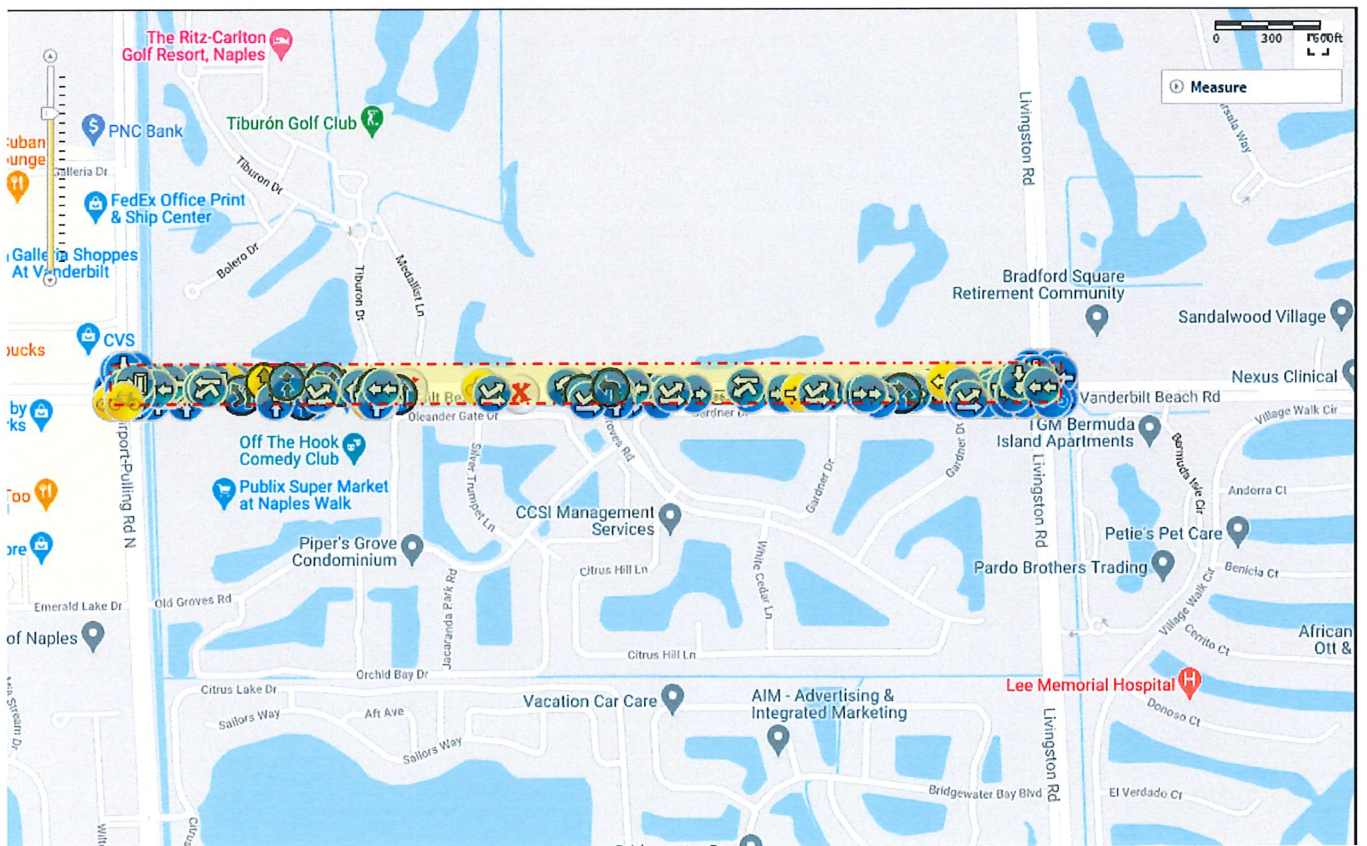
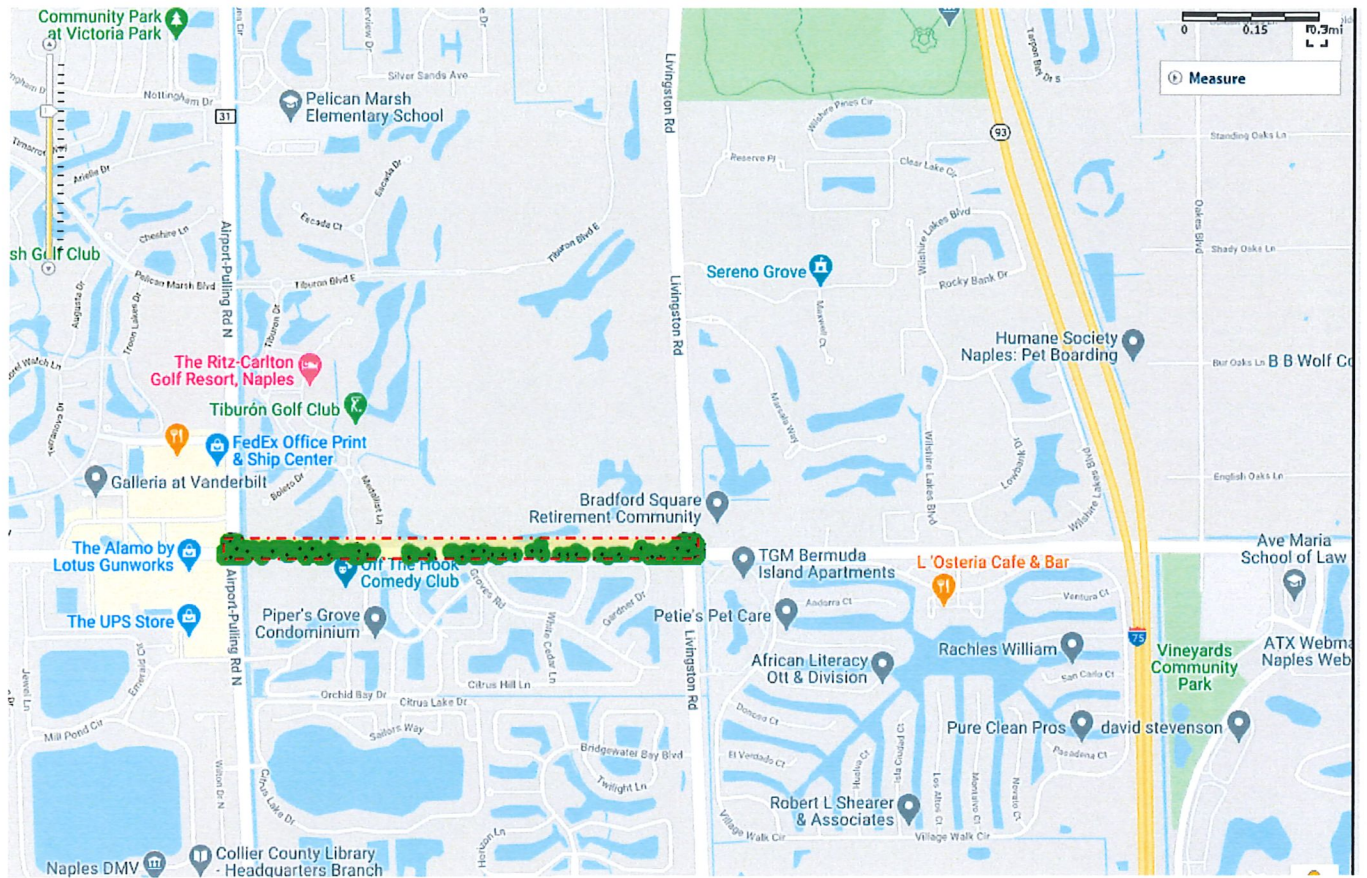
B. Detailed Cost Estimates including Pay Items

The cost is based on an estimated Planning Study cost.

C. Project Photos – dated and labeled (this is important!)

Please see above.

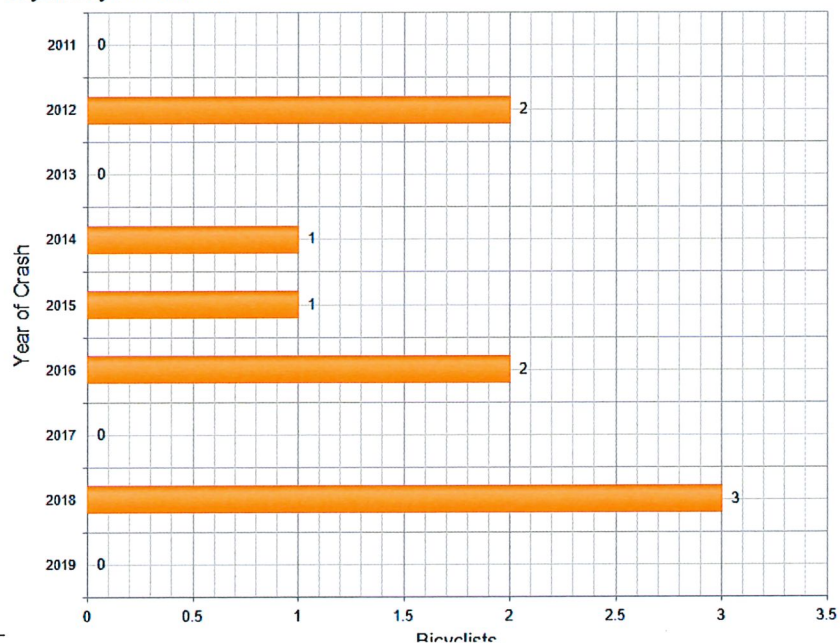
The following charts, graphs and information is derived from the Collier County Crash Data Management System in December 2020.



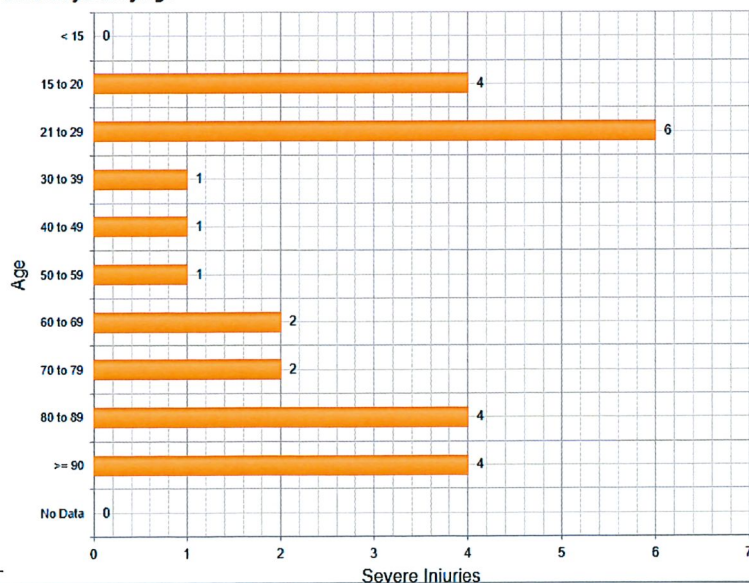
Records Date Range:	Crashes	Fatalities	Injuries	Peds	Bike	Motorcycle	Angles	Head On	Intoxication	Speeding	Run Control	Vul. Users	Agr. Driving	Lane Depart	At Int.
01/04/2005 to 11/12/2020	1,457	1	102	3	18	13	64	9	46	10	30	32	669	158	155

Intersection Summary Top 40 Report Click for Drill Down				Total Crashes	Total Fatalities	Total Injuries	Injury Severity				Ped and Bike		Crash Type				Strategic Highway Safety Plan											
Fatal Crashes	Incap	Non Incap	Possible Injury	Ped	Bike	Angle	Left Turn	Right Turn	Head On	Comm. Veh	Work Zone	No Restraint	Speed Agr. Driving	Lane Depart	At Int.	Distract Driving	Teen Driver 15-19	Aging Driver 65+	Impaired	Motor Cycle								
VANDERBILT BEACH RD (CR 862) @ LIVINGSTON	761	1	19	1	1	17	42	0	3	9	5	4	4	21	1	14	334	51	71	67	106	302	22	3				
CR 31 AIRPORT RD @ VANDERBILT BEACH RD	555	0	43	0	3	19	36	3	6	36	7	18	4	20	0	8	266	85	70	43	72	243	19	7				
VANDERBILT BEACH RD (CR 862) @ TIBURON D	71	0	6	0	2	3	7	0	5	8	4	6	1	2	0	3	40	11	7	10	12	40	1	1				
VANDERBILT BEACH RD (CR 862) @ GROVES RD	58	0	8	0	2	4	2	0	1	11	3	0	0	6	0	1	27	10	5	5	10	19	2	2				
VANDERBILT BEACH RD (CR 862) @ GODDLETTE	5	0	3	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	2	0	3	2	0	0				
VANDERBILT BEACH RD (CR 862) @ GALLARIE	2	0	1	0	0	1	1	0	2	0	0	0	0	0	0	0	2	0	1	1	0	2	0	0				
39TH ST SW @ 17TH AVE SW	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0				
PINE RIDGE RD (CR 896) @ LIVINGSTON RD S	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0				
CR 31 AIRPORT RD @ TRADE CENTER WAY	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0				
GARDNER DR @ GROVES RD	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
VANDERBILT BEACH RD (CR 862) @ BERMUDA I	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0				
INMOKALEE RD (CR 846) @ OIL WELL RD (CR	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0				
VANDERBILT BEACH RD @ NAPLES WALK ACCESS	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0				

Bicyclists by Year of Crash



Severe Injuries by Age



D. LRTP and Local CIP page

Table ES-6. Collier MPO 2045 LRTP Cost Feasible Plan Projects – FDOT Other Roads Projects and Local Roadway Projects
Draft 11/12/2020 (in millions \$)

Map ID	Facility	Limits from	Limits to	Description	Total Project Cost (FYC 2019 \$)	TP Funding 2021-25 (YOE)	Plan Period 1 (TP): 2020-2025			Plan Period 2: 2026-2030			Plan Period 3: 2031-2035			Plan Period 4: 2036-2045			Total Cost 2020-2045 (YOE) \$ without \$0	Total \$B Costs	County	OA PRE-ENG	OA ROW and CST	Funding Source
							PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST						
PLAN PERIOD 2 CONSTRUCTION FUNDED PROJECTS																								
12	Everglades Blvd	Vanderbilt Blvd Rd Exit	Randall Blvd	Widen from 2 Lanes to 4 Lanes	\$12.80					15.59	52.38	\$15.91							\$43.27					County
24	75 (SR 93) Interchange (new)	Golden Gate Pkwy		Interchange improvement	\$9.59					10.58		\$12.38							\$12.81			\$8.58	\$12.24	OA
25	75 (SR 93)	Irmoaklee Rd		Interchange improvement (DCI project)	\$9.59					10.58		\$12.38							\$12.81			\$8.58	\$12.24	OA
17	311 West Road / CR 358 (60 LANE)	Everglades Blvd	311 West Road Rd	Widen from 2 Lanes to 6 Lanes	\$16.78	\$1.81	50.91		\$0.86	16.73		\$42.11							\$49.83			\$48.81		County
57	US 41 (SR 90) (Tamiami Trail E)	Goodlyte-Frank Rd		Major Intersection improvement	\$15.00					50.63	52.97	\$13.40							\$17.01			\$8.63	\$16.38	OA
58	US 41 (SR 90) (Tamiami Trail E)	Greenway Rd	111 Park Rd	Widen from 2 Lanes to 4 Lanes	\$11.88					15.91	54.46	\$53.53							\$41.90			\$15.91	\$17.98	OA
66	Irmoaklee Rd	Covington Rd		Major Intersection improvement	\$24.50							\$26.82							\$26.82					County
78	Golden Gate Pkwy (Interchange)	Covington Rd		Major Intersection improvement	\$14.50					15.83		\$26.82							\$12.45			\$12.45		County
151	US 41	Irmoaklee Rd		Intersection reconstruction / improvements	\$17.50					19.11		\$22.12							\$23.24			\$3.11	\$20.12	OA
PLAN PERIOD 3 CONSTRUCTION FUNDED PROJECTS																								
39	Old US 41	US 41	Lee/Collier County line	Widen from 2 Lanes to 4 Lanes	\$22.59					15.85	51.79				\$56.88				\$35.61			\$3.85	\$31.76	OA
42	Randall Blvd	SR 90	Everglades Blvd	Widen from 2 Lanes to 6 Lanes	\$51.37					17.29	51.35				\$85.04				\$77.67					County
59	US 41	Collier Blvd		Major Intersection improvement	\$17.25					12.81					\$23.88				\$26.47			\$2.81	\$23.66	OA
60	US 41 (SR 90) (Tamiami Trail E)	Irmoaklee Rd	Old US 41	Further Study Required (Complete Works Study for HAMMO improvements)	\$17.25					50.46				12.00					\$26.12			\$2.46	\$23.66	OA
90	Pine Ridge Rd	Logan Blvd	Collier Blvd	Widen from 4 Lanes to 6 Lanes	\$21.72					11.91					14.51				\$11.51			\$11.51		County
PRE-ENG includes POE and Design																								
Percent Day Cost																								
Right-of-Way																								
Construction																								
YOE = Year of Expenditure																								

PRE-ENG includes PO&E and Design Present Day Cost Right-of-Way Construction YOE Year of Expenditure

Table ES-6. Collier MPO 2045 LRTP Cost Feasible Plan Projects – FDOT Other Roads Projects and Local Roadway Projects (continued)
Draft 11/12/2020 (in millions \$)

Map ID	Facility	Limits from	Limits to	Description	Total Project Cost (FYC 2019 \$)	TP Funding 2021-25 (YOE)	Plan Period 1 (TP): 2020-2025			Plan Period 2: 2026-2030			Plan Period 3: 2031-2035			Plan Period 4: 2036-2045			Total Cost 2020-2045 (YOE \$ without \$0)	Total \$B Costs	County	OA PRE-ENG	OA ROW and CST	Funding Source
							PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST						
PLAN PERIOD 4 CONSTRUCTION FUNDED PROJECTS																								
11	Everglades Blvd	Randall Blvd	South of 311 West Rd	Widen from 2 Lanes to 4 Lanes	\$16.42								51.00	51.53					\$16.86			\$29.18		County
22	75 (SR-93) Interchange (new)	Victory of Everglades Blvd		New Interchange	\$42.26					\$3.76			55.30	58.37					\$55.80			\$73.01		OA
31	Irmoaklee Rd (CR 348) SR 29	Arnpark Blvd		Widen from 2 Lanes to 4 Lanes	\$15.00												50.77	50.51	\$5.89			\$7.20		County
16	Logan Blvd	Pine Ridge Rd	Vanderbilt Beach Rd	Widen from 2 Lanes to 4 Lanes	\$12.23					\$13.40				53.16					\$12.31			\$18.87		County
63	Westview Street Ext.	Collier League Rd	West of Carlson Rd	New 2-Lane Road	\$13.01								50.51					50.51	\$4.46			\$5.51		County
65	Willow Blvd	Logan Ave	Golden Gate Blvd	New 2-Lane Road (Expandable to 4 Lanes)	\$26.15								58.82	54.23					\$50.29			\$13.35		County
97	Irmoaklee Rd (Intersections)	Logan Blvd		Major Intersection improvement	\$11.50								51.12						\$18.05			\$20.67		County
99	Vanderbilt Beach Rd (Intersections)	Logan Blvd		Minor Intersection improvement	\$11.50								51.12						\$18.05			\$20.67		County
101	Pine Ridge Rd	Goodlytte-Frank Rd		Minor Intersection improvement	\$5.75												51.20		\$5.28			\$10.48		County
C1	Connector Roadway from 75 Interchange (New)	Golden Gate Blvd	Vanderbilt Beach Rd	4-Lane Connector Roadway from New Interchange (Specific location TBD During Interchange PO&E Study)	\$17.57					\$0.44			51.80	51.62					\$20.28			\$11.14		OA
C2	Connector Roadway from 75 Interchange (New)	75 (SR 93)	Golden Gate Blvd	4-Lane Connector Roadway from New Interchange (Specific location TBD During Interchange PO&E Study)	\$80.59					\$15.00			51.28	57.41					\$130.00			\$15.28	\$127.43	OA

PRE-ENG includes PO&E and Design

Present Day Cost

Right-of-Way

Construction

YOE: Year of Expenditure

PRE-ENG includes PO&E and Design Present Day Cost Right-of-Way Construction YOE Year of Expenditure

2021 5 Year Work Program
Dollars shown in Thousand

Project #	Project Name	FY21 Amount		FY22 Amount		FY23 Amount		FY24 Amount		FY25 Amount		FY 2026 Amount
		Amount	Unit	Amount	Unit	Amount	Unit	Amount	Unit	Amount	Unit	
SUMMARY OF PROJECTS												
60100	Vanderbilt Branch Rd (Cedar to Elm)	600	R	54,100	C							55,300
60091	Pine Ridge Rd (Livingston to I-70)	1,500	R			13,800	DCM					14,800
60056	11 Bridge Replacement	31,100	DC/SH									
60117	Vanderbilt Branch Road Intersection	2,500	R			12,800	CM				PR	53,100
60108	Airport Rd Vanderbilt Branch Rd to Innovation Rd	2,100	SH	14,600	CM							17,300
60216	Triangle Blvd/Pine St	6,800	PR									8,500
60212	How Golden Gate Bridges (H)			15,500	DC	8,100	DC	37,000	DC	8,800	DC	57,400
60241	18th Street/NE Bridge	11,800	DC/CM									11,800
60228	Sidewalks	1,410	DC	2,381	DC	1,221	C	4,855	C			8,842
60109	Veterans Memorial FH PH and PH 2	3,300	DC/DC									2,500
60108	Veterans Memorial FH PH to I-1041	1,800	R	2,750	PR	12,600	CM					17,100
60109	Vanderbilt Branch Rd (I-541 to E of Goodrich)									11,500	DC	13,500
60219	Bridge/overpass	700	C									700
60109	Pinckney Branch Rd (Cedar to City Gate Rd)	9,800	RA	1,800	RA	1,000	RA	1,800	RA	1,800	RA	8,600
TRD	Sanja Barbara/Japan Turnpike							879	O	7,819	C	8,759
60146	Del Mar (Livingston to Old West Grade)	2,800	A	200	A	300	A	300	A	300	A	3,200
30160	Tiger Grant	13,000	C									13,000
TRD	Business Center (City Gate)	18,700	A	7,400	C			9,800	C			36,900
60050	Cedar Blvd (Green to GG Main Court)					13,100	RA/DC					34,800
60015	Branch Blvd/branch to Old West Blvd to Everglades	200	R					1,800	R			2,700
TRD	Goodrich Rd (PR to Innovation Rd)					2,100	D	624	A	8,316	A	11,040
TRD	Green Blvd (Sanja Barbara Blvd to Sunline)					500	S					500
60079	Waters Blvd (GG Blvd to Innovation)	2,100	DC					10,500	C			37,800
TRD	Vanderbilt Branch (Hwy to Everglades)			2,800	DC/SH	11,150	RA	5,900	RA			19,850
TRD	Panorama Professional Park					300	C					300
TRD	Innovation Rd (Livingston to Loggia)							1,050	RA			1,800
60016	Intersections Improvements Specialist Writings	217		500		300		550		400		1,267
60026	18th Ave (Hwy 30180 to 2nd St)W/Shoulder			1,100	C							1,100
60021	Carlsacres Rd (Lee County Line) Shoulder					1,100	C					1,200
TRD	Branch Blvd (Branch Rd to Decker Blvd)Shoulder					100	DC	1,400	C			1,500
60023	Carlsacres Rd (Lee County Line to SR82 Curve)	1,400	C									1,400
60042	Branch Blvd at Everglades Blvd	600	DC	100	C							870
TRD	Branch Rd at Northbrook Deffapan Day Blvd			1,000	DC							1,900
60017	Everglades Blvd (Old Hwy to branch Rd)Shoulder									1,000	DC	1,800
60012	Marla Myrie DCA Reland	500										500
	Continuing											-
	Total	100,000		144,481		191,310		35,759		42,045		224,870

	FY21	FY22	FY23	FY24	FY25	FY 21-25
Operations Improvement Programs						
00006 Bridge Rep/Improvements	2,500	5,000	6,500	5,500	2,100	24,000
00038 Bulk Water Replacement	410	100	210	100	100	1,010
00041 Road Resurfacing (15000)	10,000	5,000	8,500	5,000	5,000	48,000
00028 Lowvoltage Road Conversion III	-	-	-	-	-	-
00017 Striping and Marking	800	800	800	400	400	4,000
00032 Traffic Ops Upgrades/Enhancements	750	125	750	125	25	2,812
00008 LED Replacement Program	-	-	-	-	-	-
00010 Countywide Pathways/Bikeways Non-Fin. LAP	555	100	750	750	750	3,115
00001 Pathways/Bikeways Bike Lanes Main/Urban Area/Alley	200	100	100	100	100	600
00048 TMC Relocation Fund 210	-	-	-	-	-	-
00007 RR Facility Fund 210	500	500	500	500	500	2,500
00011-000 District 1, 2, 3, 4, 5, 6 Streets Pl.	-	-	-	-	-	-
00009 Lip Design Program	14,800	14,875	17,420	17,420	17,420	78,035
Facilities Operations Improvement Programs						
00009 Collector Maint Plan	-	-	-	-	-	-
00009 Traffic Control	50	D/C	50	D/C	50	D/C
00005 RR Pavement	200	0	200	0	200	0
00005 PLO Monitoring	-	-	-	-	-	-
00005 Planning Consulting	500	5	500	5	500	5
00005 Traffic Studies	300	0	300	0	300	0
00011 Multi-Project	-	-	-	-	-	-
Transfer to Fund 305-OTD	-	-	-	-	-	-
Relocation/Repair to 310 RTW	11,310	-	100	250	250	1,610
Impact Fee Refunds	-	250	-	-	-	5,000
Small Business Payments	13,317	13,121	13,126	13,126	13,126	52,186
Total Funding Request All Funds	751,387	113,627	183,421	183,421	58,810	555,055

REVENUES	FY21	FY22	FY23	FY24	FY25	FY26
State Tax	48,182	50,291	52,185	53,891	-	180,640
Impact Fee Revenue	15,400	15,400	15,400	15,400	15,400	77,400
CDA Revenue	-	-	-	-	-	-
Gas Tax Revenue	33,052	21,500	33,750	24,000	24,219	116,531
OCA	531	-	-	-	-	531
Grants/Reimbursements*	19,438	4,318	3,000	-	6,565	40,565
Grant from FH (SR10)	-	-	-	-	-	-
Transfer SR1 to SR	8,067	9,318	9,189	9,319	9,319	45,023
Transfer FH to SR	3,000	3,000	3,000	3,000	3,000	15,000
Interest Gas Tax Impact Fees	2,161	1,800	1,800	1,800	1,800	9,360
County Forward SR1-SR10 Impact Fees	59,834	-	-	-	-	59,834
Potential Debt Funding/Refunded Bonds	-	-	66,837	43,000	-	109,137
Expected FEMA Reimbursement	-	8,500	-	-	-	8,500
Revenue Reserve 5%	(1,003)	(2,023)	(11,811)	(2,835)	(2,325)	(16,004)
Total Revenues	179,440	159,313	145,430	119,255	58,373	651,034
Gross Capital/Debtal	26,640	(14,964)	(71,003)	-	-	-
Community Support/Staff	26,640	13,960	-	-	-	-

Project	FY21	FY22	FY23	FY24	FY25
State Highways	6,924				2,582
St. George Island Airport	15,606				4,214
Tiger Creek			1,600		
Water Utility to Goodrich			3,750		
Collier Blvd G.O. to Green			6,438		
Rebuild the Water to New	1,900	4,320			
First Ridge Livingstone					
Connect Water to Road	70,424	4,320	9,820	-	8,865

Key:
A = Adv Construction / B = Study / O = Design
M = Migration / C = Construction / H = Habitat
LS = Landscape / L = Ledges / I = Ingestion
AM = Avian Migration / SP = Soil Loss / Hygro =
Hydro

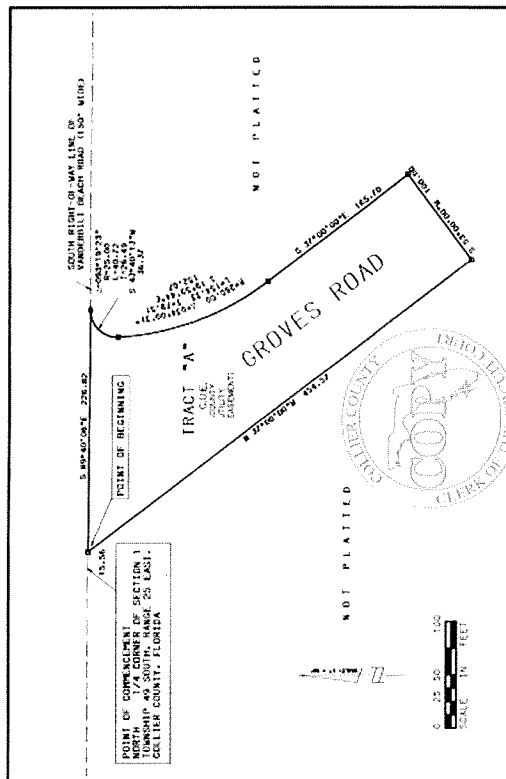
	FY21	FY22	FY23	FY24	FY25	FY 21-25
James Lee Projects						
Wanderlust Beach Lot		24,000				14,000
Pine Ridge Rd (J Information Information Imp)	1,000		21,500			22,500
11 Bridge Replacement	21,000					21,000
Openly/Unsettled Information			2,000			2,000
Bayport Rd NMT to South Rd		4,000				4,000
Patungin Rd to Pine St	6,000					6,000
New Garden Gate Bridges (11)		15,000	2,814			17,814
17th Street Bridge	4,000			9,000		13,000
16th Street Bridge	1,010					1,010
15th Street			1,200	4,000		5,200
Total	48,010	35,000	22,300	13,000	-	118,310

ROW Documentation - Plat Book 22, Page 55 – The Groves Road, February 1993

PLAT BOOK 22 PAGE 55
SHEET 1 OF 1

THE GROVES ROAD

PART OF SECTION 1. TOWNSHIP 49 SOUTH, RANGE 25 EAST,
COLLIER COUNTY, FLORIDA.

[illegible][illegible]

GENERAL NOTES:

- [illegible]

INFORMED CONSENT

THE CHINESE BUREAU OF ORIENTAL RESEARCH, INC., 100 EAST 42ND STREET, NEW YORK 17, N.Y. 10017, U.S.A. HAS BEEN DESIGNATED AS THE U.S. AGENT FOR THE DISTRIBUTION OF THE CHINESE EDITIONS OF THE CHINESE-ENGLISH DICTIONARY OF THE CHINESE UNIVERSITY OF BEIJING, P. R. CHINA. THE CHINESE EDITIONS OF THE CHINESE-ENGLISH DICTIONARY OF THE CHINESE UNIVERSITY OF BEIJING, P. R. CHINA, ARE NOW AVAILABLE IN THE U.S.A. THROUGH THE CHINESE BUREAU OF ORIENTAL RESEARCH, INC., 100 EAST 42ND STREET, NEW YORK 17, N.Y. 10017, U.S.A. THE CHINESE EDITIONS OF THE CHINESE-ENGLISH DICTIONARY OF THE CHINESE UNIVERSITY OF BEIJING, P. R. CHINA, ARE NOW AVAILABLE IN THE U.S.A. THROUGH THE CHINESE BUREAU OF ORIENTAL RESEARCH, INC., 100 EAST 42ND STREET, NEW YORK 17, N.Y. 10017, U.S.A.

DISCUSSION AND ACKNOWLEDGEMENT

[illegible]

COUNTY APPROVALS

PROJECT PLAN REVIEW
THIS PLAN APPROVED BY THE SITE DEVELOPMENT REVIEW DEPARTMENT OF COLLIER COUNTY, THIS IS PLAN OF RECORD, 2002 RD
DATE: 04/26/2002
BY: [Signature]
JAMES C. MORALES, P.E., PROJECT PLAN REVIEW MANAGER
COLLIER COUNTY ENGINEER

DIRECTOR OF ENVIRONMENTAL ENGINEERING

THIS PAGE APPROVED BY THE COLLIER COUNTY DIRECTOR OF ENVIRONMENTAL ENGINEERING THIS _____ DAY OF _____, 19____.

TO GENERAL MANAGER CENTRAL BUREAU SYSTEM AND NO HORIZONTAL PORTABLE WATER SELLER OR INDIVIDUAL SEWER SYSTEM ARE PERMITTED.

J.E. LUKIN
DIRECTOR OF ENVIRONMENTAL ENGINEERING

COMMUNITY ALIGNMENT

THIS WAS APPROVED BY THE COLLEGE COUNCIL ATTORNEY FEE \$400.00

1000

John D. Rockefeller

0380022V 4380022 03177022
0324022 0324022 0324022

THE UNIVERSITY OF CHICAGO

2015-2016

8064
8065
8066
8067
8068
8069
8070
8071
8072
8073
8074
8075
8076
8077
8078
8079
8080
8081
8082
8083
8084
8085
8086
8087
8088
8089
8090
8091
8092
8093
8094
8095
8096
8097
8098
8099
8100

U.S. DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY
WASHINGTON, D.C.

1890

[illegible]

COUNTY COMMISSION APPROVAL

STATE OF FLORIDA)
) ss:
)

SURVEYOR'S CERTIFICATE

Case	Age	Sex	Site	Pathologic	Survival
1	65	M	Rectum	Adenocarcinoma	10 years
2	68	F	Rectum	Adenocarcinoma	10 years
3	70	M	Rectum	Adenocarcinoma	10 years
4	72	F	Rectum	Adenocarcinoma	10 years
5	75	M	Rectum	Adenocarcinoma	10 years
6	78	F	Rectum	Adenocarcinoma	10 years
7	80	M	Rectum	Adenocarcinoma	10 years
8	82	F	Rectum	Adenocarcinoma	10 years
9	85	M	Rectum	Adenocarcinoma	10 years
10	88	F	Rectum	Adenocarcinoma	10 years

FILING RECORD

[illegible]

THE CERTIFICATION

FILE CERTIFICATION
STATE OF TEXAS)
COUNTY OF DALLAS)
I, _____, Clerk of the County of Dallas, State of Texas, do hereby certify that the foregoing is a true and correct copy of the _____ as the same appears from the records of said County.

• NOTICE •

ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

THIS INSTRUMENT WAS PREPARED BY:
JOSEPH S. BOGGS, P.L.S. # 3516
WILSON, MILLER, BARTON & PECK, INC.,
ENGINEERS, PLANNERS & SURVEYORS,
12020 WILSON PROFESSIONAL CENTER, SUITE 200
22000 BAILEY LANE # AIRPORT ROAD
FORT MYERS, FLORIDA 33941

WINTERS
 McHenry Co. Hondo
 County, Utah
 FLORENCE BENTON
 PRESIDENT



PELICAN MARSH UNIT TWENTY
A SUBDIVISION OF PART OF SECTION 36, TOWNSHIP 48 SOUTH,
RANGE 25 EAST, COLLIER COUNTY, FLORIDA.

PLAT BOOK **30**, PAGE **75**
SHEET 3 OF 3

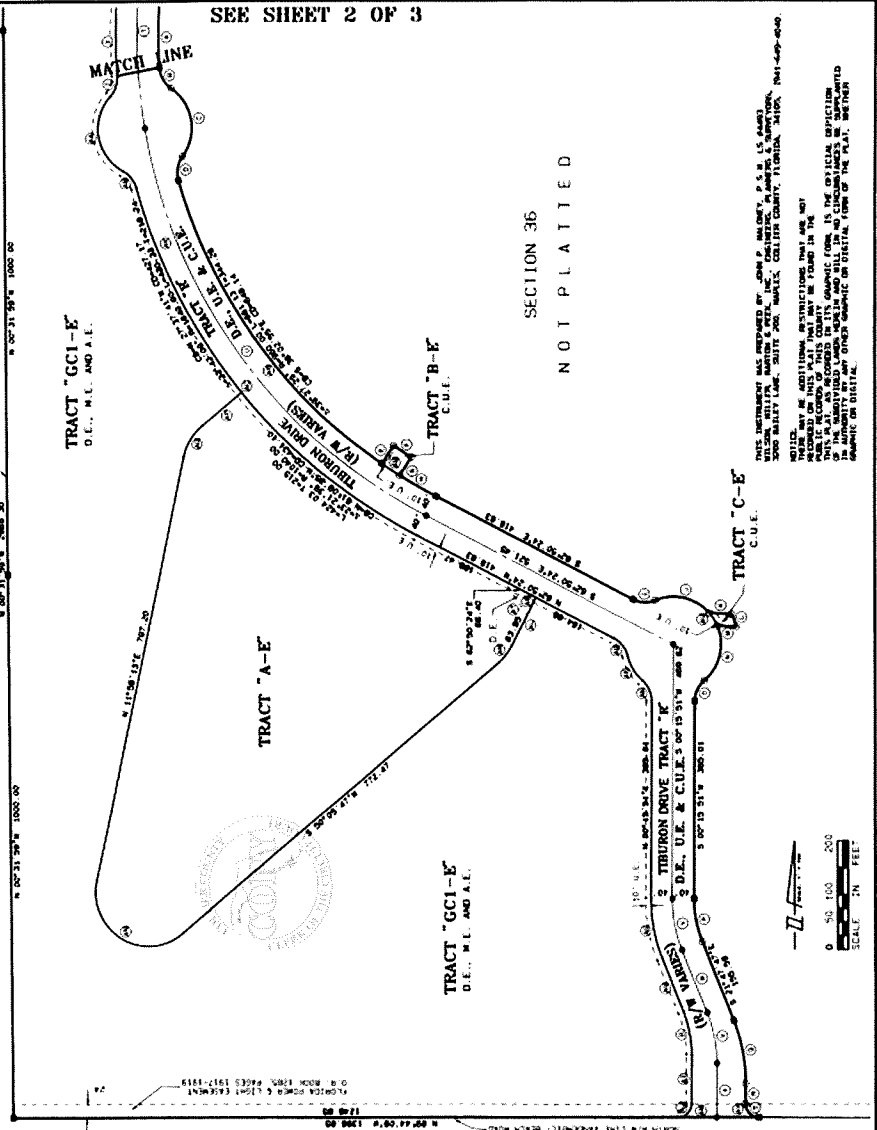
SECTION 35
NOT PLATTED

AIRPORT-PULLING ROAD (C.R. 31)
200' R/W

VANDERBILT BEACH ROAD (C.R. 862)
150' R/W

DATA

LINE	BEARING	DIST.	AREA	PERIMETER	CUMULATIVE AREA
1	S 89° 15' 00" E	100.00	100.00	100.00	100.00
2	S 89° 15' 00" E	100.00	100.00	200.00	200.00
3	S 89° 15' 00" E	100.00	100.00	300.00	300.00
4	S 89° 15' 00" E	100.00	100.00	400.00	400.00
5	S 89° 15' 00" E	100.00	100.00	500.00	500.00
6	S 89° 15' 00" E	100.00	100.00	600.00	600.00
7	S 89° 15' 00" E	100.00	100.00	700.00	700.00
8	S 89° 15' 00" E	100.00	100.00	800.00	800.00
9	S 89° 15' 00" E	100.00	100.00	900.00	900.00
10	S 89° 15' 00" E	100.00	100.00	1000.00	1000.00
11	S 89° 15' 00" E	100.00	100.00	1100.00	1100.00
12	S 89° 15' 00" E	100.00	100.00	1200.00	1200.00
13	S 89° 15' 00" E	100.00	100.00	1300.00	1300.00
14	S 89° 15' 00" E	100.00	100.00	1400.00	1400.00
15	S 89° 15' 00" E	100.00	100.00	1500.00	1500.00
16	S 89° 15' 00" E	100.00	100.00	1600.00	1600.00
17	S 89° 15' 00" E	100.00	100.00	1700.00	1700.00
18	S 89° 15' 00" E	100.00	100.00	1800.00	1800.00
19	S 89° 15' 00" E	100.00	100.00	1900.00	1900.00
20	S 89° 15' 00" E	100.00	100.00	2000.00	2000.00
21	S 89° 15' 00" E	100.00	100.00	2100.00	2100.00
22	S 89° 15' 00" E	100.00	100.00	2200.00	2200.00
23	S 89° 15' 00" E	100.00	100.00	2300.00	2300.00
24	S 89° 15' 00" E	100.00	100.00	2400.00	2400.00
25	S 89° 15' 00" E	100.00	100.00	2500.00	2500.00
26	S 89° 15' 00" E	100.00	100.00	2600.00	2600.00
27	S 89° 15' 00" E	100.00	100.00	2700.00	2700.00
28	S 89° 15' 00" E	100.00	100.00	2800.00	2800.00
29	S 89° 15' 00" E	100.00	100.00	2900.00	2900.00
30	S 89° 15' 00" E	100.00	100.00	3000.00	3000.00
31	S 89° 15' 00" E	100.00	100.00	3100.00	3100.00
32	S 89° 15' 00" E	100.00	100.00	3200.00	3200.00
33	S 89° 15' 00" E	100.00	100.00	3300.00	3300.00
34	S 89° 15' 00" E	100.00	100.00	3400.00	3400.00
35	S 89° 15' 00" E	100.00	100.00	3500.00	3500.00
36	S 89° 15' 00" E	100.00	100.00	3600.00	3600.00
37	S 89° 15' 00" E	100.00	100.00	3700.00	3700.00
38	S 89° 15' 00" E	100.00	100.00	3800.00	3800.00
39	S 89° 15' 00" E	100.00	100.00	3900.00	3900.00
40	S 89° 15' 00" E	100.00	100.00	4000.00	4000.00
41	S 89° 15' 00" E	100.00	100.00	4100.00	4100.00
42	S 89° 15' 00" E	100.00	100.00	4200.00	4200.00
43	S 89° 15' 00" E	100.00	100.00	4300.00	4300.00
44	S 89° 15' 00" E	100.00	100.00	4400.00	4400.00
45	S 89° 15' 00" E	100.00	100.00	4500.00	4500.00
46	S 89° 15' 00" E	100.00	100.00	4600.00	4600.00
47	S 89° 15' 00" E	100.00	100.00	4700.00	4700.00
48	S 89° 15' 00" E	100.00	100.00	4800.00	4800.00
49	S 89° 15' 00" E	100.00	100.00	4900.00	4900.00
50	S 89° 15' 00" E	100.00	100.00	5000.00	5000.00



SEE SHEET 2 OF 3

SECTION 36
NOT PLATTED

THIS INSTRUMENT WAS PREPARED BY JOHN P. HANCOCK, P.E., A.S.T. (S. 4400) FOR WILLIAM H. HILL, JR., HANCOCK & HILL, INC., CONSULTING ENGINEERS, 10000 N.W. 11TH AVENUE, SUITE 100, MIAMI, FLORIDA 33157. THE INSTRUMENT IS A TRUE AND CORRECT COPY OF THE ORIGINAL INSTRUMENT ON FILE IN THE PUBLIC RECORDS OF THIS COUNTY. THE INSTRUMENT IS A TRUE AND CORRECT COPY OF THE ORIGINAL INSTRUMENT ON FILE IN THE PUBLIC RECORDS OF THIS COUNTY. THE INSTRUMENT IS A TRUE AND CORRECT COPY OF THE ORIGINAL INSTRUMENT ON FILE IN THE PUBLIC RECORDS OF THIS COUNTY.

This Project is expected to keep within the existing right-of-way and not require any additional right-of-way acquisition.

Collier MPO Congestion Management - Project Concept Sheet

A. REQUIRED PROJECT INFORMATION:

1. Name of Project **(ITS) Fiber Optic and FPL Infrastructure Improvement for mid-block ITS devices**
2. Name of Applicant **Pierre-Marie Beauvoir**
3. Name of Submitting Jurisdiction **Collier County**
4. If this is a multi-jurisdictional application, please list the jurisdictions involved

5. Describe the project and its purpose, including the project limits (if applicable). Attachment? ☐
The purpose of this project is to implement FPL power and Fiber Optics Network Connectivity to midblock ITS devices, such as Vehicle Traffic Count Systems and midblock PTZ Cameras on Collier County roadways.
6. Amount of CMC/ITS SU Box funds being requested **\$ 830,000** Estimated Total Project Cost **\$ 830,000** If SU Box funds are not requested, what funding source would be most appropriate?

7. Are there specific technical and/or monetary local contributions for this project? If yes, please explain.
YES ☒ NO ☐
If the project exceeds our estimated costs, we will require local funds for completion.
8. Anticipated time to complete the project **24 months**
9. Does this project require the acquisition of Right-of-Way? YES ☐ NO ☒
10. Is this project on a congested corridor? Identify the corridor. YES ☒ NO ☐

This project will improve network communication between roadside ITS devices and the Traffic Management Center across some 1 linear miles of the most travelled County roadways. We have estimated the cost at approximately \$8,650 per location to install a cabinet, network switch, fiber, and FPL power at 96 location (72 Wavetronix locations and 24 Mid-Block Camera locations) along the corridors listed below. This solution is good for 10 or more years. The County attempted to use wireless technology to transmit video streams at US 41 and SR 29, but found it prohibitively expensive. A live streaming camera at 1080p sends 5GB/hour @ a cost of \$25. The cost for 45 Camera locations throughout the County, per hour is \$1,000 and \$24,000 per day or over \$8.6M/year. The cost for Traffic Count Stations is significantly less.

1. Airport-Pulling Rd - 10 miles	9. Pine Ridge Rd - 10 miles	17. Wilson Blvd - 4 miles
2. Collier Blvd - 22 miles	10. Radio Rd - 5 miles	18. Bayshore Dr - 1 mile
3. Golden Gate Blvd - 11 miles	11. Rattlesnake Hammock Rd - 4 miles	
4. Golden Gate Pkwy - 15 miles	12. Santa Barbara Rd - 7 miles	
5. Goodlette Frank Rd - 10 miles	13. Vanderbilt Beach Rd - 10 miles	
6. Immokalee Rd - 31 miles	14. Logan Blvd - 2 miles	

7. Livingston Rd - 11 miles	15. Randall Blvd - 3 miles	
8. Oil Well Rd- 16 miles	16. Everglades Blvd - 9 miles	

11. Does this project address a documented safety problem? Explain. YES ☐ NO ☐
12. Does this project address a strategy listed on the implementation matrix? YES ☒ NO ☐

COMMENTS:

The project is eligible for funding because it is consistent with TSPR-Action Plan Strategies for ITS (see comments on performance measure matrix, attached).

13. Does this project maintain concurrency with FDOT Regional ITS architecture? YES ☒ NO ☐
14. Does this project promote one or more multi-modal solutions by advancing recommendations from an adopted MPO study? Please identify. YES ☐ NO ☒

B. PROJECT SPECIFIC DESCRIPTION:

CHECK ALL STATEMENTS BELOW THAT APPLY TO THE PROJECT WITH EXPLANATION OF HOW IT APPLIES. (If project is funded, you will be expected to provide data to the MPO with 2 years and 5 years of construction/implementation for performance measures selected.)

- ☐ 1. Travel Demand - Describe how the project addresses one or more of the following Performance Measures:
- a. Percent of roadway miles by volume to capacity (V/C) ratio
 - b. Percent of vehicle miles traveled by volume to capacity (v/c) ratio
 - c. Number of signalized intersections connected to ATMS

This project will improve network communication between roadside ITS devices and the Traffic Management Center across some 162 linear miles of the most travelled County roadways.

- ☐ 2. Transit Travel – Describe how the project addresses one or more of the following performance measures:
- a. Average bus route service frequency and number of routes
 - b. Passenger trips (annual ridership)
 - c. Passenger trips per revenue hour
 - d. Transit on time performance

☐ 3. Pedestrian/Bicycle Facilities – Describe how project addresses one or more of the following Performance Measures:

- a. Centerline miles of bicycle lanes
- b. Linear miles of connector sidewalks on arterial roadways
- c. Linear miles of Shared Use paths adjacent to roadways

☐ 4. Goods Movement – Describe how project addresses one or more of the following performance measures:

- a. Vehicle miles traveled (VMT) on designated truck routes with V/C greater than 1/0
- b. Number of crashes involving heavy vehicles/trucks

☐ 5. Safety– Describe how project addresses one or more of the following performance measures:

- a. Total crashes
- b. Motor vehicle severe injury crashes
- c. Motor vehicle fatal crashes
- d. Pedestrian and bicycle severe injury and fatal crashes

This project will address staff safety in the maintenance of roadside ITS devices.

☐ 6. TDM– Describe how project addresses one or more of the following performance measures:

- a. Number of people registered in the FDOT Commute Connector database that have an origin in Collier County

☐ 7. Accessibility– Describe how project addresses one or more of the following performance measures:

- a. Share of regional jobs within ¼ mile of transit
- b. Share of regional households within ¼ mile of transit

☐ 8. Incident Duration– Describe how project addresses one or more of the following performance measures:

- a. Mean time for responders to arrive on scene after notification

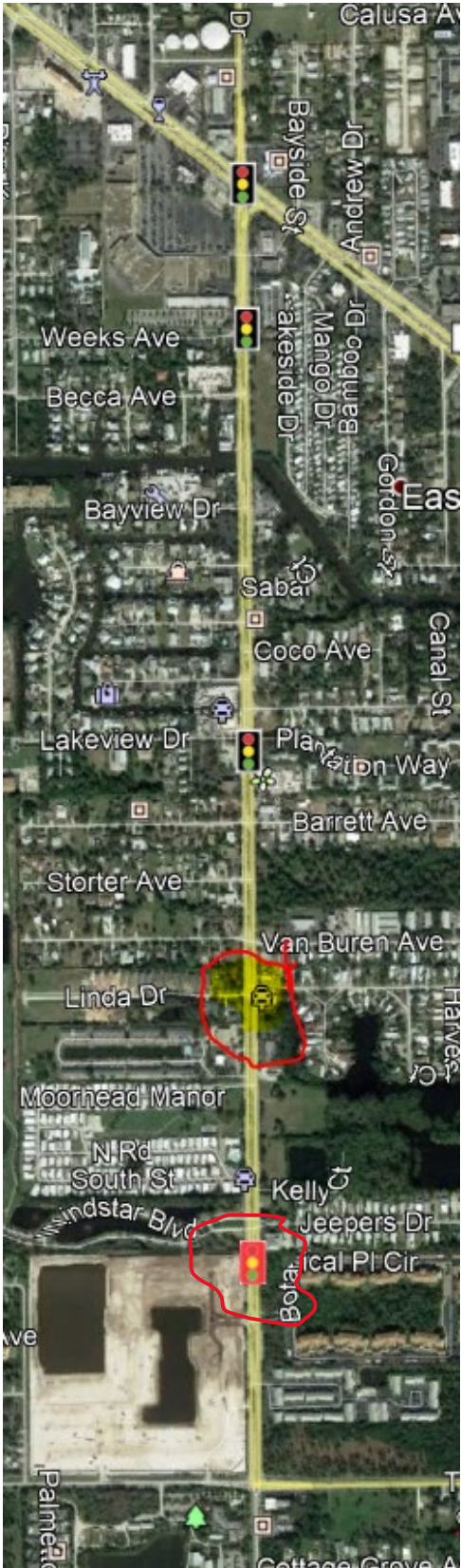
b. Mean incident clearance time

c. Road Ranger stops

☐ 9. Customer Service– Describe how project addresses one or more of the following performance measures:

a. Report on nature of comments/responses and customer satisfaction

Bayshore Corridor – 2 mid-block ITS Devices, indicated in red. The signals represent signalized intersections.



Livingston Corridor – 2 mid-block ITS Devices





**District One
Priority Project Information Packet**

***Please fill out this application completely. Please ensure all attachments are LEGIBLE
Applications containing insufficient information will not be reviewed by the FDOT.***

Name of Applying Agency: Collier County

Project Name: (ITS) Fiber Optic and FPL Power Infrastructure

Project Category:

Congestion Management ☒ TRIP ☐ CIGP ☐ **SU Bike-Ped** ☐
Transportation Alternative ☐ Transit/Modal ☐ SCOP ☐ SCRAP ☐

For more information on State Grant Programs (CIGP, SCOP, SCRAP, TRIP) [please click here](#).

Is applicant LAP certified? Yes ☒ No ☐

Is project on State Highway System? Yes ☐ No ☒

If the project is off the state system and the applicant is LAP certified the project will be programmed as a LAP project.

Is the roadway on the Federal Aid Eligible System? Yes ☐ No ☒

If yes, provide Federal Aid roadway number: [Click here to enter text](#).

If no, give local jurisdiction: Collier County

<http://www.fdot.gov/statistics/fedaaid/>

Detailed Project Limits/Location:

Describe begin and end points of project, EX., from ABC Rd. to XYZ Ave. Limits **run south to north or west to east**. Include jurisdiction (city/county), project length, attach a labeled project, map.

Discuss how this project is consistent with the MPO/TPO Long Range Transportation Plan?

Page Number (attach page from LRTP): *The MPO's Congestion Management Process and funding amounts are referenced in the 2045 LRTP on pages 6-11 to 6-12 and on Table 6-7 SU Box Funds by Planning Year and Project Phase, on p 6-15. As stated in the LRTP, "Future congestion management projects will be prioritized through the MPO's congestion management process (CMP)." The LRTP references the Transportation System Performance Report (TSPR) Action Plan. The project is eligible under Section 4.0 Congestion Management Strategies, Table 4-1 pages 4-1 & 4-2. Specifically, ITS & Access Management – Active Roadway Management. Strategies include: Traffic signal [& monitoring] equipment modernization; Traffic Center Operations Enhancements (through improved data collection in the field); Communications networks & roadway surveillance - ITS. **See Attached pages***

Discuss the project in the local jurisdiction's Capital Improvement Plan?

(Attach page from CIP): *See Project Proposal*

Project Description

Phase(s) requested:

Planning Study ☐ PD&E ☐ PE ☐ ROW ☐ CST ☐ CEI ☐

Project cost estimates by phase (Please include detailed cost estimate and documentation in back-up information): *(Not applicable)*

Phase (PD&E, ROW, PE, CST)	Estimated Total Cost	Funds Requested	Matching Local Funds	Local Fund Source	Type of Match (Cash, in-kind)
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]

Total Project Cost: \$ [830,000]

Project Details: Clearly describe the existing conditions and the proposed project and desired improvements in detail. Please provide studies, documentation, etc., completed to-date to support or justify the proposed improvements. Include labeled photos and maps. (Add additional pages if needed):

See Project Proposal

The questions below are not applicable, for our project entails the acquisition and installation of video detection cameras at specified signalized intersections along County roadways.

Constructability Review

For items 2-9 provide labeled and dated photos (add additional pages if needed)

1. Discuss other projects (ex. drainage, utility, etc.) programmed (local, state or federal) within the limits of this project? *N/A*
2. Does the applicant have an adopted ADA transition plan? Yes ☐ Identify areas within the project limits that will require ADA retrofit. (Include GIS coordinates for stops and labeled photos and/or map.) No ☒
N/A
3. Is there a rail crossing along the project?
Yes ☐ No ☒
What is the Rail MP?
Enter MP
4. Are there any transit stops/shelters/amenities within the project limits?
Yes ☐ No ☒
How many? [Click here to enter text.](#)
Stop ID number: [Click here to enter text.](#)

5. Is the project within 10-miles of an airport? Yes ☒ No ☐ (Not applicable)

6. Coordinate with local transit and discuss improvements needed or requested for bus stops?

(add additional pages if needed):

[Click here to enter text.](#)

7. Are turn lanes being added? Yes ☐ No ☒

If yes, provide traffic counts, length, and location of involved turn lanes.

[Click here to enter text.](#)

8. Drainage structures: (Not applicable)

- Number of culverts or pipes currently in place: [Click here to enter text.](#)
- Discuss lengths and locations of each culvert along the roadway: [Click here to enter text.](#)
- Discuss the disposition of each culvert and inlet. Which culverts are “to remain” and which are to be replaced, upgraded, or extended? [Click here to enter text.](#)
- Discuss drainage ditches to be filled in?
(Discuss limits and quantify fill in cubic yards) [Click here to enter text.](#)
- Describe the proposed conveyances system (add additional pages if needed.)
[Click here to enter text.](#)
- Are there any existing permitted stormwater management facilities/ponds within the project limits? Yes ☐ No ☐
- If yes, provide the location and permit number (add additional pages if needed)
[Click here to enter text.](#)
- Discuss proposed stormwater management permits needed for the improvements. [Click here to enter text.](#)
- List specific utilities within project limits and describe any potential conflicts (add additional pages if needed): [Click here to enter text.](#)
- Discuss Bridges within project limits? [Click here to enter text.](#)
- Can bridges accommodate proposed improvements? Yes ☐ No ☐
If no, what bridge improvements are proposed? (Offset and dimensions of the improvements, add additional pages if needed):
[Click here to enter text.](#)

9. Has Right-of-way (ROW), easements, or ROW activity already been performed/acquired for the proposed improvements? If yes, please provide documentation

Yes ☐ No ☐ *(Not applicable)*

If ROW or Easements are needed detail expected area of need (acreage needed, ownership status):

[Click here to enter text.](#) *(Not applicable)*

10. Discuss required permits (ERP, Drainage, Driveway, Right of Way, etc.):

If none are needed, state the qualified exemption:

[Click here to enter text.](#) *(Not applicable)*

11. Are there any wetlands within the project limits? Yes ☐ ☐ No *(Not applicable)*

If yes, list the type of wetlands, estimated acreage and if mitigation will be required.

Please note whether the project is within the geographic service area of any approved mitigation banks. Provide any additional information:

[Click here to enter text.](#)

12. Are there any federal or state listed/protected species within the project limits?

Yes ☐ No ☐ *(Not applicable)*

If yes, list the species and what, if any mitigation or coordination will be necessary: [Click here to enter text.](#)

If yes, discuss critical habitat within the project limits: [Click here to enter text.](#)

13. Discuss whether any prior reviews or surveys have been completed for historical and archaeological resources (include year, project, results)

[Click here to enter text.](#) *(Not applicable)*

14. Are any Recreational, historical properties or resources covered under section 4(f) property within the project limits? Yes ☐ No ☐

(Provide details) [Click here to enter text.](#) *(Not applicable)*

15. Discuss whether any prior reviews or surveys have been completed for sites/facilities which may have potential contamination involvement with the proposed improvements. This should include a discussion of locations which may directly impact the project location, or be which may be exacerbated by the construction of the proposed improvements. [Click here to enter text.](#) *(Not applicable)*

16. Are lighting improvements requested as part of this project? Yes ☐ No ☒
Please provide a lighting justification report for the proposed lighting.
[Click here to enter text.](#)

17. Is a mid-block crossing proposed as part of the project? Yes ☐ No ☒
If yes, please provide the justification for mid-block crossing.
[Click here to enter text.](#)

Required Attachments

- A. Detailed Project Scope with Project Location Map with sufficient level of detail (Please include typical section of proposed improvements)
- B. Project Photos – dated and labeled (this is important!)
- C. Detailed Cost Estimates including Pay Items
- D. LRTP and Local CIP page
- E. Survey/As-builts/ROW documentation/Utility/Drainage information
- F. Detailed breakdown of ROW costs included in estimate (if ROW is needed/included in request or estimate)

Applicant Contact Information

Agency Name:

Mailing Address: 2885 South Horseshoe Dr., Naples FL 34104

Contact Name and Title: Pierre-Marie Beauvoir | Signal Systems Network Specialist

Email: pierre.beauvoir@colliercountyfl.gov **Phone:** (239) 252-6066

Signature: Pierre-Marie Beauvoir **Date:** 1/4/2021

Your signature indicates that the information included with this application is accurate.

Maintaining Agency:

Contact Name and Title: Click here to enter text.

Email: Click here to enter text.

Phone: Click here to enter text.

Signature: _____ **Date:** _____

Your signature serves as a commitment from your agency to maintain the facility requested.

MPO/TPO:

Contact Name and Title: Click here to enter text.

Email: Click here to enter text.

Phone: Click here to enter text.

Signature: _____ **Date:** _____

Your signature confirms the request project is consistent with all MPO/TPO plans and documents, is eligible, and indicates MPO/TPO support for the project.

Figure 6-6 presents the total costs by project phase for the SIS cost feasible projects for this 2045 LRTP update. **Figures 6-7** and **6-8** present the total costs by project phase and funding source, respectively, for the FDOT Other Roads and Local Roads cost feasible projects for this 2045 LRTP update.

Figure 6-6. Total Costs by Project Phase SIS Funded Projects 2026–2045 (YOE \$ in millions)

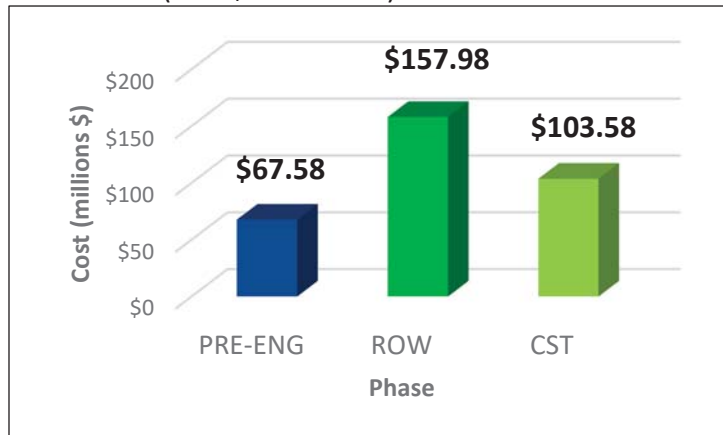


Figure 6-7. Total Costs by Project Phase for FDOT Other Roads and Local Roads Funded Projects 2026–2045 (YOE \$ in millions)

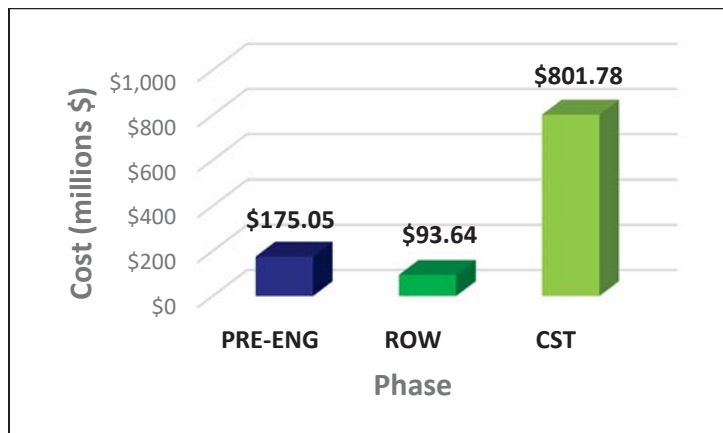
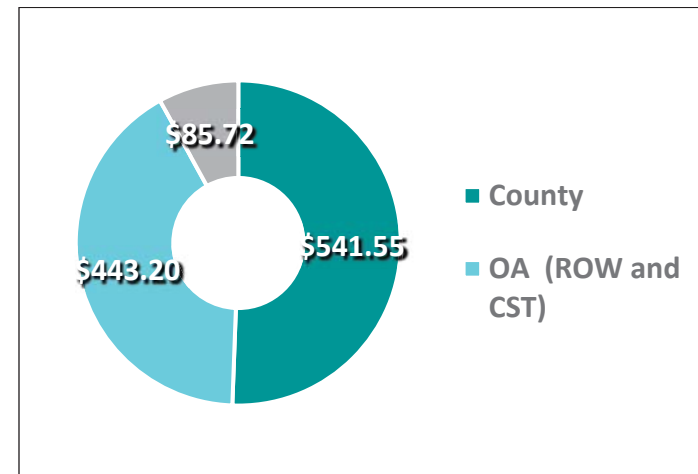


Figure 6-8. Total Costs by Funding Source 2026–2045 (YOE \$ in millions)



Funding of Other Roadway Needs

East of CR 951 Bridges

As noted in Chapter 4, there are 10 proposed canal crossing bridges that are the subject of the 2020 East of CR 951 Bridge Reevaluation Study. A 1-cent infrastructure surtax with specific funding earmarked for constructing these new bridges will be available within the next 7 years. A total of \$19.7 million in TMA (or SU) Funds is dedicated for bridge projects in the 2045 LRTP update:

- Planning Period 2026 to 2030: \$4.96 million for CST
- Planning Period 2031 to 2035: \$4.94 million for CST
- Planning Period 2036 to 2045: \$9.8 million for CST

Congestion Management Projects

Congestion management and ITS projects are generally short-term and immediate action projects. Therefore, their role in the LRTP process is modest and are more thoroughly addressed in the CMP. The current TIP includes several

improvements to the traffic management center, arterial monitoring cameras, and other traffic equipment improvements that address safety, active roadway management, and bicycle and pedestrian facilities. **Table 6-4** presents congestion management projects funded for construction in the 2021–2025 TIP.

The Collier MPO identified congestion management priorities resulting from the TSPR and the Local Road Safety Plan (Collier MPO 2020e). **Tables 6-5** and **6-6** present infrastructure and non-infrastructure multimodal strategies, respectively, that contribute to the MPO’s project selection process.

Table 6-4. Congestion Management Projects Funded in TIP

ITS Projects	Funded Amount	TIP/CIP Year
Bicycle Detection – City of Naples (refer to Figure 4-7 in Chapter 4)	\$66,429	CST 2024/25
ITS Fiber Optic and FPL Power Infrastructure at 13 locations	\$272,725	CST 2024/25
Travel Time Data Collection and Performance Measures	\$700,000	CST 2020/21
New Updated School Flasher System	\$353,250	CST 2024/25
New Vehicle Count Station Update (refer to Figure 4-7 in Chapter 4)	\$311,562	CST 2023/24
New Adaptive Traffic Control System at 13 signalized locations along Santa Barbara Boulevard and Golden Gate Parkway (refer to Figure 4-7 in Chapter 4)	\$893,000	PE 2023/24 CST 2024/25

Source: Collier MPO 2020 *Transportation System Performance Report & Action Plan*

Future congestion management projects will be prioritized through the MPO’s congestion management process. A total of \$40.45 million in TMA (or SU) Funds is dedicated for future congestion management projects in the 2045 LRTP update:

- Planning Period 2026 to 2030: \$10.17 million for CST
- Planning Period 2031 to 2035: \$10.13 million for CST
- Planning Period 2036 to 2045: \$20.15 million for CST

Other Consideration for SU Funds

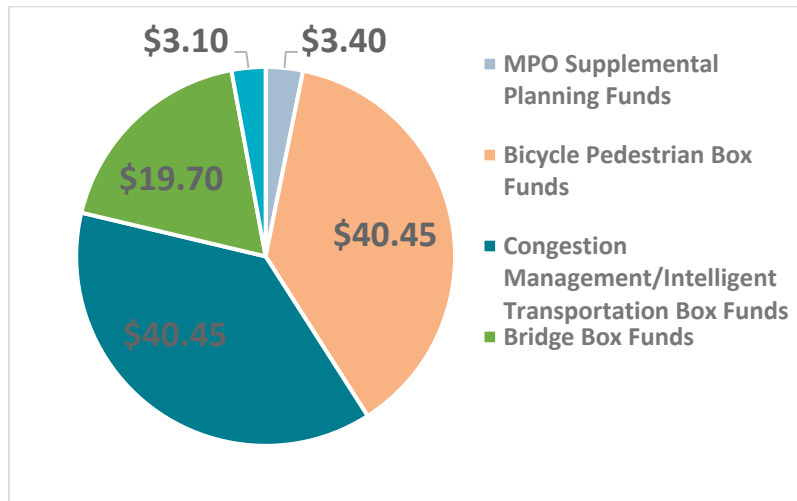
In addition to congestion management and bridge projects, the MPO allocates its TMA SU funds to planning, bicycle/pedestrian facilities, and safety projects. These five categories are often referred to as “SU Box” funds by the MPO. The Planning SU Box funds are used to supplement the MPO’s federal Planning (PL) funds to cover costs associated with updating the LRTP every 5 years. The MPO may also use SU Box funds to update the Bicycle and Pedestrian Master Plan, Transportation System Performance Report, Local Roads Safety Plan (LRSP), freight studies, and other plans and studies that are integral to updating the LRTP.

The MPO sets aside SU Box funds allocated to safety projects to implement the LRSP. The LRSP identifies priority projects that include engineering, enforcement, education, and emergency response. Safety projects will be vetted by the Congestion Management Committee, BPAC, TAC, and CAC before going to the MPO Board for adoption. The MPO may also choose to use Safety Box funds to supplement FDOT funding on safety projects that address the MPO’s and FDOT’s shared Vision Zero Safety Performance Targets. **Table 6-7** presents the presents the SU funds by planning year and project phase. **Figure 6-9** presents a summary of the allocation of SU Funds through 2045.

Table 6-7. SU Box Funds by Planning Year and Project Phase

Allocation Type	Plan Period 2: 2026-2030			Plan Period 3: 2031-2035			Plan Period 4: 2036-2045			Total Cost 2026- 2045
	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	
MPO Supplemental Planning Funds	\$0.70			\$0.80			\$1.90			\$3.40
Bicycle Pedestrian Box Funds			\$10.17			\$10.13			\$20.15	\$40.45
Congestion Management/Intelligent Transportation Box Funds			\$10.17			\$10.13			\$20.15	\$40.45
Bridge Box Funds			\$4.96			\$4.94			\$9.80	\$19.70
Safety			\$0.80			\$0.80			\$1.50	\$3.10

Figure 6-9. SU Fund Allocation Through 2045



4.0 Congestion Management Strategies

Federal guidance recommends that identification of congestion management strategies be based on their ability to support regional congestion management objectives, meet local context, and contribute to other regional goals and objectives. Strategies that effectively manage congestion and achieve congestion management goals and objectives established in the CMP process are selected to meet Collier County's specific needs. In the 2020 CMP update process, new CMP strategies were identified and added to the existing strategies list based on the analysis that was conducted in the Baseline Conditions Report which identified causes and locations of congested corridors and the Action Plan which analyzed and identified congestion mitigation strategies for the specific corridors. The main additions include safety strategies and strategies to address school related congestion. Table 4-1 lists the category and respective congestion management strategies identified to mitigate congestion along the CMP network in Collier County.

Table 4-1: Collier MPO Congestion Management Strategies

STRATEGIES: Demand Management (Programmatic), Transportation & Land Use Policy	Improved incident management
	Carpool/Vanpool Assistance and Carpool/Vanpool Technology including School Carpooling Apps
	Flexible Work Hours
	Transit Vouchers
	Transit Oriented Development
	Jobs/Housing Regional Balance
	Implement Complete Streets Policy All New Development
	High-Density & Mixed-Use Fixed Route Corridor
	School Dismissal timing (e.g. stagger dismissal times, dismissal automation software)
	Walking, Biking, Transit and School Bus Awareness/Education campaigns
	Safe Routes to School & School Zone Traffic Congestion Study
	Origin-Destination Study
STRATEGIES: Safety	Signage and Pavement Markings (e.g. special emphasis crosswalks, yield/stop for pedestrian signs, advanced street signs)
	Visibility and Sightline Improvements
	New and upgraded street lighting
	Traffic control devices (e.g. left turn signals, variable message signs, pedestrian hybrid beacons)
	New and Upgrade existing bicycle and pedestrian crossings



Action Plan

STRATEGIES: Transit	Amenities to Attract New Ridership
	MPO transit service expansion and improvement (e.g. frequency, hours of operation, realign routes)
	Regional Transit system Expansion
	Bus rapid transit corridor
	Park & Ride facilities
	Intermodal Hubs
	Transit ITS and MOD
	Arrival Prediction Technology
	Park-and-Ride lots
STRATEGIES: ITS & Access Management - Active Roadway Management	Expanded traffic signal timing & coordination - ITS
	Traffic Center Operations Enhancements
	Traffic signal equipment modernization - ITS
	Traveler information devices - ITS
	Communications networks & roadway surveillance - ITS
	Access management
	School Zone Traffic Calming Measures
	School Zone pedestrian and traffic signal optimization
	School off-site waiting lots and curbing and parking zones
STRATEGIES: Physical Roadway Capacity Enhancement	Intersection Improvements
	Replace intersections with round-abouts & other innovative designs
	Deceleration lanes and turn lanes
	New grade-separated intersections
	New travel lanes (general purpose)
	New roadway network connections
STRATEGIES: Bicycle & Pedestrian Facilities	New off-street pedestrian and multi-use facilities to close gaps in the transportation network and make connections to key destinations
	Integrated into TODs, High Density Corridors
	Regional Bike/Ped Facilities
	Complete Streets on New Facilities & Retrofit or new on-street bicycle
	Supporting bicycle infrastructure (e.g. secure and convenient parking, bike repair and pumps)



Project Proposals

(ITS) Fiber Optic and FPL Power Infrastructure for mid-block ITS Devices

Purpose:

The purpose of this project is to implement FPL power and Fiber Optics Network Connectivity to mid-block ITS devices, such as Vehicle Traffic Count Systems and mid-block PTZ Cameras on Collier County roadways.

Amount Requested and Estimated Total Project Cost:

\$830,000

Airport-Pulling Rd	10	\$	45,875.00
Collier Blvd	22	\$	100,925.00
Golden Gate Blvd	11	\$	50,462.50
Golden Gate Pkwy	15	\$	68,812.50
Goodlette Frank Rd	10	\$	45,875.00
Immokalee Rd	31	\$	142,212.50
Livingston Rd	11	\$	50,462.50
Oil Well Rd	16	\$	73,400.00
Pine Ridge Rd	10	\$	45,875.00
Radio Rd	5	\$	22,937.50
Rattlesnake Hammock Rd	4	\$	18,350.00
Santa Barbara Rd	7	\$	32,112.50
Vanderbilt Beach Rd	10	\$	45,875.00
Logan Blvd	2	\$	9,175.00
Randall Blvd	3	\$	13,762.50
Everglades Blvd	9	\$	41,287.50
Wilson Blvd	4	\$	18,350.00
Bayshore Dr	1	\$	4,587.50
		\$	830,337.50

Estimated Project Duration:

24 months

Project Scope:

Collier County Traffic Operations has deployed ITS devices, such as Vehicle Count Stations and CCTV/PTZ Cameras along various arterial corridors. Currently Traffic Ops utilizes wireless and radio technologies for network connectivity to these devices. This project will improve network communication between roadside ITS devices and the Traffic Management Center across some 12 linear miles of the most travelled County roadways.

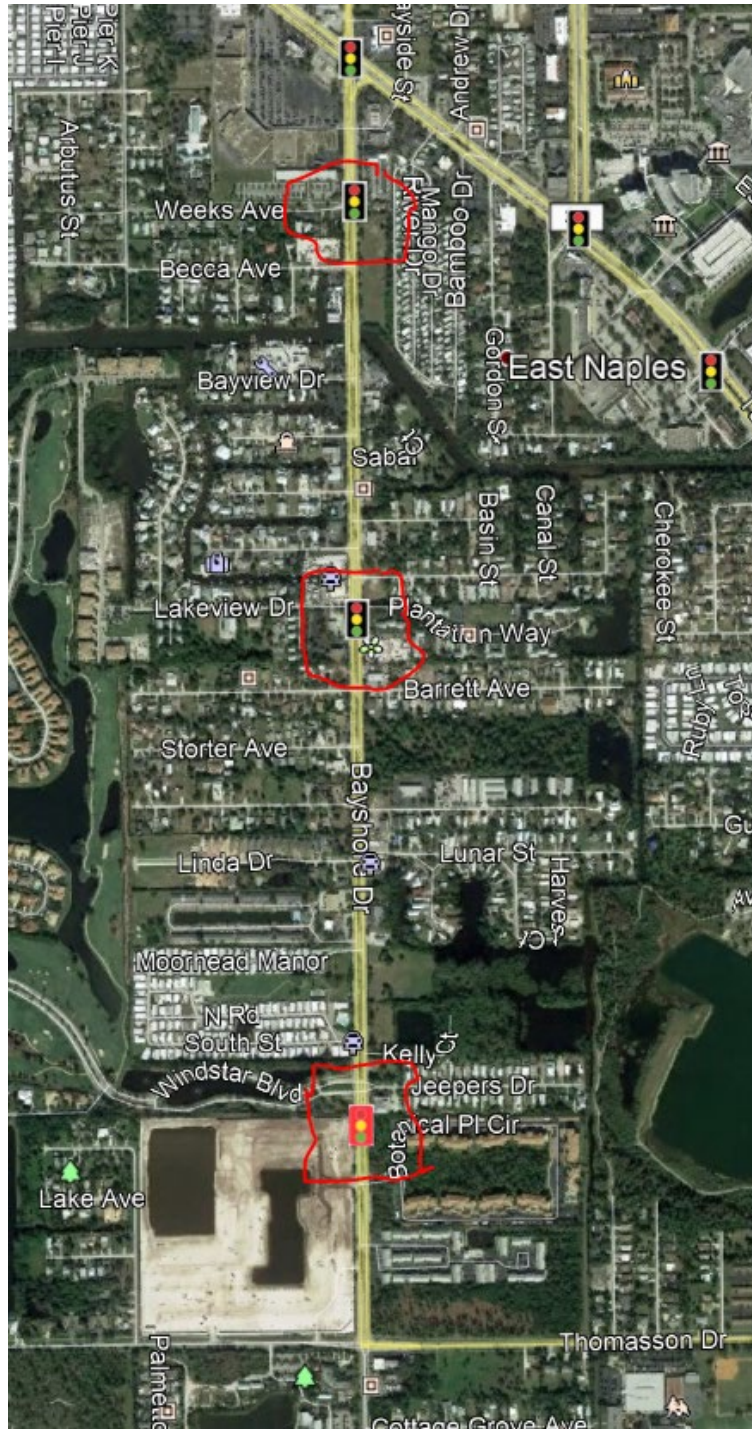
1. Airport-Pulling Rd - 10 miles	9. Pine Ridge Rd - 10 miles	17. Wilson Blvd - 4 miles
2. Collier Blvd - 22 miles	10. Radio Rd - 5 miles	18. Bayshore Dr - 1 mile
3. Golden Gate Blvd - 11 miles	11. Rattlesnake Hammock Rd - 4 miles	

Project Proposals

4. Golden Gate Pkwy - 15 miles	12. Santa Barbara Rd - 7 miles	
5. Goodlette Frank Rd - 10 miles	13. Vanderbilt Beach Rd - 10 miles	
6. Immokalee Rd - 31 miles	14. Logan Blvd - 2 miles	
7. Livingston Rd - 11 miles	15. Randall Blvd - 3 miles	
8. Oil Well Rd- 16 miles	16. Everglades Blvd - 9 miles	

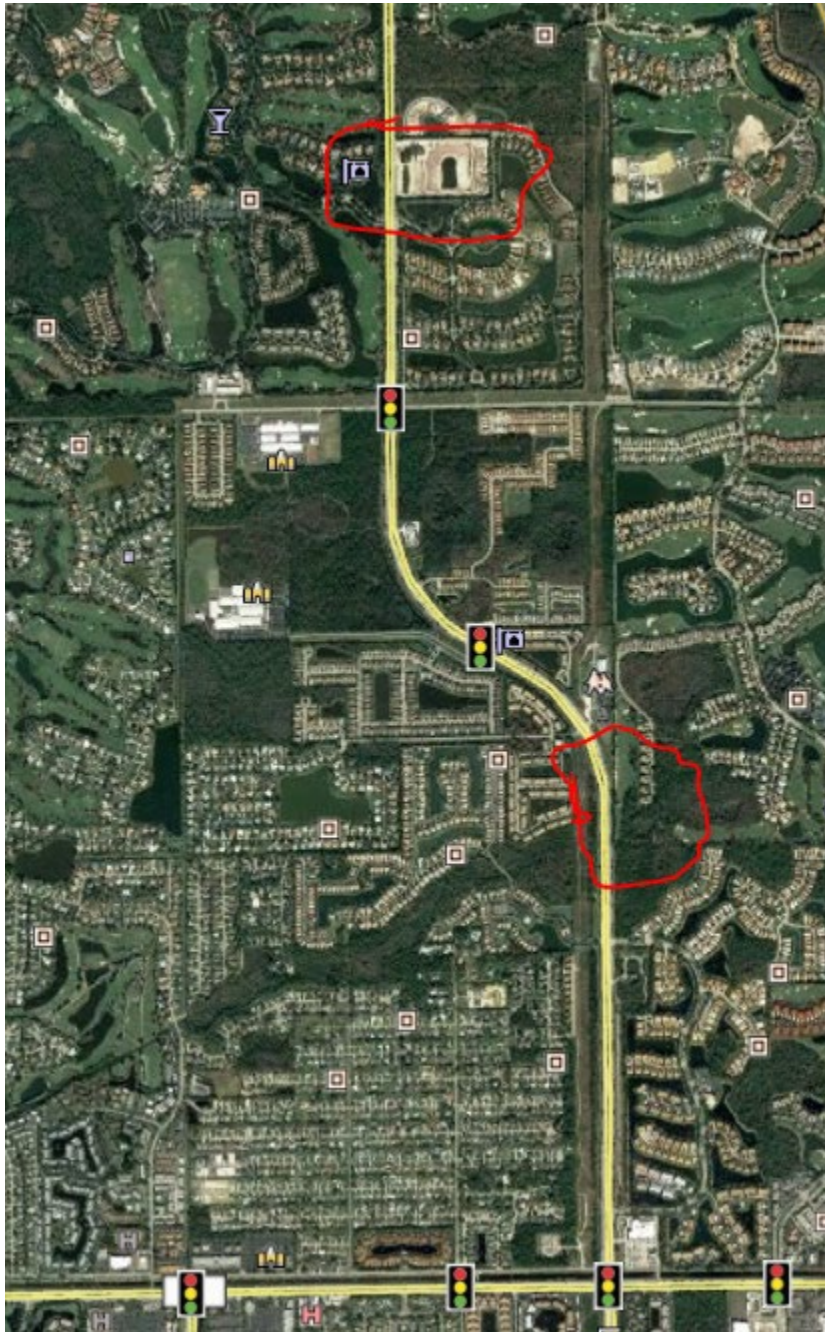
Project Proposals

Bayshore Dr – Currently, we have no visibility in this corridor. Our Encom radio system cannot transmit video for its bandwidth capacity is inadequate.



Project Proposals

Livingston N Corridor – The County has identified two ITS Device locations on the North side of Livingston Rd.



Collier MPO Congestion Management - Project Concept Sheet

A. REQUIRED PROJECT INFORMATION:

1. Name of Project ITS Vehicle Detection Update/Installation at Signalized Intersections in Collier County
2. Name of Applicant Pierre-Marie Beauvoir
3. Name of Submitting Jurisdiction Collier County
4. If this is a multi-jurisdictional application, please list the jurisdictions involved

5. Describe the project and its purpose, including the project limits (if applicable). Attachment? ☐
The purpose of this project is to upgrade the County's Vehicle Detection System at signalized intersections on Collier County arterials, using the latest Intelligent Transportation System (ITS) technologies. Vehicle detectors inform traffic signal controllers of the presence of motorized vehicles and bicycles at a signalized intersection, mitigate congestion, and promote the efficient flow of vehicle traffic along municipal roadways.

6. Amount of CMC/ITS SU Box funds being requested \$ 991,100 Estimated Total Project Cost \$ 991,100 If SU Box funds are not requested, what funding source would be most appropriate?

7. Are there specific technical and/or monetary local contributions for this project? If yes, please explain.
YES ☒ NO ☐

If the project exceeds our estimated costs, we will need local funds for completion

8. Anticipated time to complete the project 24 months
9. Does this project require the acquisition of Right-of-Way? YES ☐ NO ☒
10. Is this project on a congested corridor? Identify the corridor. YES ☒ NO ☐

Immokalee Rd, Airport-Pulling Rd, Collier Blvd, Goodlette Frank Rd, Golden Gate Pkwy, Golden Gate Blvd, Livingston Rd, Oil Well Rd, Pine Ridge Rd, Vanderbilt Beach Rd, Santa Barbara Rd, Rattlesnake Hammock Rd.

11. Does this project address a documented safety problem? Explain. YES ☒ NO ☐

Will provides better detection, reduce the likelihood of vehicles breaching intersections when they are skipped due to detector malfunctions.

12. Does this project address a strategy listed on the implementation matrix? YES ☒ NO ☐
13. Does this project maintain concurrency with FDOT Regional ITS architecture? YES ☒ NO ☐
14. Does this project promote one or more multi-modal solutions by advancing recommendations from an adopted MPO study? Please identify. YES ☐ NO ☒
-

B. PROJECT SPECIFIC DESCRIPTION:

CHECK ALL STATEMENTS BELOW THAT APPLY TO THE PROJECT WITH EXPLANATION OF HOW IT APPLIES. (If project is funded, you will be expected to provide data to the MPO with 2 years and 5 years of construction/implementation for performance measures selected.)

- ☒ 1. Travel Demand - Describe how the project addresses one or more of the following Performance Measures:
- a. Percent of roadway miles by volume to capacity (V/C) ratio
 - b. Percent of vehicle miles traveled by volume to capacity (v/c) ratio
 - c. Number of signalized intersections connected to ATMS

The requested percentages in items "a." and "b." are not applicable to this proposal see signalized intersection list in Addendum "A". The 73 signalized intersections in this proposal are specific locations across County arterials.

- ☐ 2. Transit Travel – Describe how the project addresses one or more of the following performance measures:
- a. Average bus route service frequency and number of routes
 - b. Passenger trips (annual ridership)
 - c. Passenger trips per revenue hour
 - d. Transit on time performance
-

- ☐ 3. Pedestrian/Bicycle Facilities – Describe how project addresses one or more of the following Performance Measures:
- a. Centerline miles of bicycle lanes
 - b. Linear miles of connector sidewalks on arterial roadways
 - c. Linear miles of Shared Use paths adjacent to roadways

- ☐ 4. Goods Movement – Describe how project addresses one or more of the following performance measures:
- a. Vehicle miles traveled (VMT) on designated truck routes with V/C greater than 1/0

- b. Number of crashes involving heavy vehicles/trucks

☐

5. Safety– Describe how project addresses one or more of the following performance measures:

- a. Total crashes
- b. Motor vehicle severe injury crashes
- c. Motor vehicle fatal crashes
- d. Pedestrian and bicycle severe injury and fatal crashes

This project promotes vehicle and pedestrian safety through improved detection across County arterials

☐

6. TDM– Describe how project addresses one or more of the following performance measures:

- a. Number of people registered in the FDOT Commute Connector database that have an origin in Collier County

☐

7. Accessibility– Describe how project addresses one or more of the following performance measures:

- a. Share of regional jobs within ¼ mile of transit
- b. Share of regional households within ¼ mile of transit

☐

8. Incident Duration– Describe how project addresses one or more of the following performance measures:

- a. Mean time for responders to arrive on scene after notification
- b. Mean incident clearance time
- c. Road Ranger stops

☐

9. Customer Service– Describe how project addresses one or more of the following performance measures:

- a. Report on nature of comments/responses and customer satisfaction

ADDENDUM “A”

ITS Vehicle Detection Update at Signalized Intersections in Collier County

Project Scope:

Although, Collier County Traffic Operations utilizes several types of vehicle detection to include, video detection, inductive loops, and radar sensors. We are currently looking to update our 292 video detection cameras at 73 signalized intersections. This is to further develop a state-of-the-art ITS infrastructure and better position the County for the introduction of future technologies. Traffic Operations continues to test various detection systems by various manufacturers to ensure these meet our requirements and function as advertised. The updated infrastructure will provide vehicle detection, vehicle traffic and turning movement counts, and allow for real-time configuration, monitoring and troubleshooting of these ITS devices, through the network from the Traffic Management Center (TMC).

The County’s current video detection system dates to 2007 with failing part having been replaced in 2016. Additionally considering, weather conditions in southwest Florida, these systems are in desperate need of upgrading due to age, system failures and continued development in detection technologies. We are requesting a Grant in the amount of \$991,000 for this project.

Amount Requested and Estimated Total Project Cost:

Description	Total Cost
Detection Camera	\$635,100
Accessories	\$146,000
Software Application	\$25,000
Servers	\$30,000
Disk Storage	\$25,000
Licenses	\$15,000
Installation and Configuration	\$40,000
Maintenance – 5 years	\$75,000
TOTAL	\$991,100

Estimated Project Duration:

24 months

The project plan is to purchase and deploy vehicle detection camera systems at the signalized intersections on Collier County roadways, in the table below, to manage congestion.

- 2 Airport Pulling Rd at Golden Gate Pkwy
- 3 Airport Pulling Rd at Immokalee Rd
- 4 Airport Pulling Rd at J& C Blvd/Fountainview Cir
- 5 Airport Pulling Rd at Pine Ridge Rd
- 6 Airport Pulling Rd at Vanderbilt Beach Rd
- 7 Collier Blvd at Business Cir S
- 8 Collier Blvd at City Gate Dr/ Magnolia Pond Dr
- 9 Collier Blvd at Crystal Lake Dr/Oak Ridge MS
- 10 Collier Blvd at Grand Lely Dr/Veronawalk Blvd
- 11 Collier Blvd at Lely Cultural Pkwy
- 12 Collier Blvd at Rattlesnake Hammock Rd
- 13 Collier Blvd at Tree Farm Rd
- 14 Collier Blvd at Vanderbilt Beach Rd
- 15 Golden Gate Blvd @ Big Cypress ES
- 16 Golden Gate Blvd at Max Hasse Park
- 17 Golden Gate Pkwy at Coronado Pkwy
- 18 Golden Gate Pkwy at Goodlette Frank Rd
- 19 Golden Gate Pkwy at Livingston Rd
- 20 Golden Gate Pkwy at Santa Barbara Blvd
- 21 Goodlette Frank Rd at 22nd Ave N
- 22 Goodlette Frank Rd at Granada Blvd/Moorings Park Dr
- 23 Goodlette Frank Rd at Immokalee Rd
- 24 Goodlette Frank Rd at Ohio Dr
- 25 Goodlette Frank Rd at Orange Blossom Dr
- 26 Goodlette Frank Rd at Pine Ridge Rd
- 27 Goodlette Frank Rd at Solana Rd
- 28 Goodlette Frank Rd at Vanderbilt Bch Rd
- 29 Goodlette Frank Rd at Wilderness Dr
- 30 Green Blvd at Sunshine Blvd
- 31 Immokalee Rd at Gulf Coast HS/Dancing Wind Ln
- 32 Immokalee Rd at Lakeland Ave/The Lane
- 33 Immokalee Rd at Laurel Oaks ES/Preserve Ln
- 34 Immokalee Rd at Livingston Rd
- 35 Immokalee Rd at Logan Blvd
- 36 Immokalee Rd at Northbrooke Dr/Tarpon Bay Blvd
- 37 Immokalee Rd at Oil Well Rd
- 38 Immokalee Rd at Orange Tree Blvd
- 39 Immokalee Rd at Palm River Blvd/Parnu St
- 40 Immokalee Rd at Randall Blvd/4th St NE
- 41 Immokalee Rd at Strand Blvd/Juliet Blvd
- 42 Immokalee Rd at Valewood Dr
- 43 Immokalee Rd at Wilson Blvd4
- 44 Livingston Rd at Grey Oaks Blvd E/Wyndemere Way
- 45 Livingston Rd at Orange Blossom Dr
- 46 Livingston Rd at Osceola Trail/Sable Ridge Way
- 47 Livingston Rd at Pine Ridge Rd

- 48 Livingston Rd at Vanderbilt Beach Rd
- 49 Livingston Rd at Veterans Memorial Blvd
- 50 Naples Blvd at Hollywood Blvd
- 51 Oil Well Rd at Corkscrew ES/MS
- 52 Oil Well Rd at Everglades Blvd
- 53 Oil Well Rd at Palmetto Ridge HS/Victory Ln
- 54 Pine Ridge Rd at Naples Blvd
- 55 Pine Ridge Rd at Pine Ridge Crossing
- 56 Pine Ridge Rd at Whippoorwill Ln/Kramer Dr
- 57 Radio Rd at San Marcos Blvd
- 58 Radio Rd at Santa Barbara Blvd
- 59 Rattlesnake Hammock Rd at Grand Lely Dr/Skyway Dr
- 60 Rattlesnake Hammock Rd at Saint Andrews Blvd/Santa Barbara Blvd
- 61 Santa Barbara Blvd at Berkshire Pines Rd/Devonshire Blvd
- 62 Santa Barbara Blvd at Calusa Park ES
- 63 Santa Barbara Blvd at Prince Andrew Blvd/Recreation Ln
- 64 Seagate Dr at Myra Janco Daniels Blvd/West Blvd
- 65 Vanderbilt Beach Rd at Island Walk Blvd
- 66 Vanderbilt Beach Rd at Logan Blvd
- 67 Vanderbilt Beach Rd at Oakes Blvd
- 68 Vanderbilt Beach Rd at Strada Pl
- 69 Vanderbilt Beach Rd at Vanderbilt Dr
- 70 Vanderbilt Beach Rd at Village Walk Cir/Wilshire Lakes Blvd
- 71 Vanderbilt Beach Rd at Vineyards Blvd
- 72 Vanderbilt Dr at 111th Ave N/ Bluebill Ave
- 73 Vanderbilt Dr at Wiggins Pass Rd



**District One
Priority Project Information Packet**

***Please fill out this application completely. Please ensure all attachments are LEGIBLE
Applications containing insufficient information will not be reviewed by the FDOT.***

Name of Applying Agency: Collier County

Project Name: ITS Vehicle Detection Update/Installation at Signalized Intersections in Collier County

Project Category:

Congestion Management ☒ TRIP ☐ CIGP ☐ **SU Bike-Ped** ☐
Transportation Alternative ☐ Transit/Modal ☐ SCOP ☐ SCRAP ☐

For more information on State Grant Programs (CIGP, SCOP, SCRAP, TRIP) [please click here](#).

Is applicant LAP certified? Yes ☒ No ☐

Is project on State Highway System? Yes ☐ No ☒

If the project is off the state system and the applicant is LAP certified the project will be programmed as a LAP project.

Is the roadway on the Federal Aid Eligible System? Yes ☐ No ☒

If yes, provide Federal Aid roadway number: [Click here to enter text](#).

If no, give local jurisdiction: Collier County

<http://www.fdot.gov/statistics/fedaaid/>

Detailed Project Limits/Location:

Describe begin and end points of project, EX., from ABC Rd. to XYZ Ave. Limits **run south to north or west to east**. Include jurisdiction (city/county), project length, attach a labeled project, map. *See list of intersections attached.*

Discuss how this project is consistent with the MPO/TPO Long Range Transportation Plan?

Page Number (attach page from LRTP): • The MPO's Congestion Management Process and funding amounts are referenced in the 2045 LRTP on pages 6-11 to 6-12 and on Table 6-7 SU Box Funds by Planning Year and Project Phase, on p 6-15. As stated in the LRTP, "Future congestion management projects will be prioritized through the MPO's congestion management process (CMP)." The LRTP references the Transportation System Performance Report (TSPR) Action Plan. The project is eligible under Section 4.0 Congestion Management Strategies, Table 4-1 pages 4-1 & 4-2. Specifically, ITS & Access Management – Active Roadway Management. Strategies include: Traffic signal [& monitoring] equipment modernization; Traffic Center Operations Enhancements (through improved data collection in the field); Communications networks & roadway surveillance - ITS. **See attached pages.**

Discuss the project in the local jurisdiction's Capital Improvement Plan?

(Attach page from CIP): A

Project Description

Phase(s) requested:

Planning Study ☐ PD&E ☐ PE ☐ ROW ☐ CST ☐ CEI ☐

Project cost estimates by phase (Please include detailed cost estimate and documentation in back-up information): *Project cost estimates are based on latest quote received from vendor plus 10-15% for inflation and anticipated enhanced functionality. See matrix attached.*

Phase (PD&E, ROW, PE, CST)	Estimated Total Cost	Funds Requested	Matching Local Funds	Local Fund Source	Type of Match (Cash, in-kind)
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]

Total Project Cost: \$ [991,100]

Project Details: Clearly describe the existing conditions and the proposed project and desired improvements in detail. Please provide studies, documentation, etc., completed to-date to support or justify the proposed improvements. Include labeled photos and maps. (Add additional pages if needed):

See attached.

The questions below are not applicable, for our project entails the acquisition and installation of video detection cameras at specified signalized intersections along County roadways.

Constructability Review

For items 2-9 provide labeled and dated photos (add additional pages if needed)

1. Discuss other projects (ex. drainage, utility, etc.) programmed (local, state or federal) within the limits of this project? *N/A*
2. Does the applicant have an adopted ADA transition plan? Yes ☐ Identify areas within the project limits that will require ADA retrofit. (Include GIS coordinates for stops and labeled photos and/or map.) No ☒
N/A
3. Is there a rail crossing along the project?
Yes ☐ No ☒
What is the Rail MP?
Enter MP
4. Are there any transit stops/shelters/amenities within the project limits?
Yes ☐ No ☒
How many? [Click here to enter text.](#)
Stop ID number: [Click here to enter text.](#)

5. Is the project within 10-miles of an airport? Yes ☒ No ☐ (Not applicable)

6. Coordinate with local transit and discuss improvements needed or requested for bus stops?

(add additional pages if needed):

[Click here to enter text.](#)

7. Are turn lanes being added? Yes ☐ No ☒

If yes, provide traffic counts, length, and location of involved turn lanes.

[Click here to enter text.](#)

8. Drainage structures: (Not applicable)

- Number of culverts or pipes currently in place: [Click here to enter text.](#)
- Discuss lengths and locations of each culvert along the roadway: [Click here to enter text.](#)
- Discuss the disposition of each culvert and inlet. Which culverts are “to remain” and which are to be replaced, upgraded, or extended? [Click here to enter text.](#)
- Discuss drainage ditches to be filled in?
(Discuss limits and quantify fill in cubic yards) [Click here to enter text.](#)
- Describe the proposed conveyances system (add additional pages if needed.)
[Click here to enter text.](#)
- Are there any existing permitted stormwater management facilities/ponds within the project limits? Yes ☐ No ☐
- If yes, provide the location and permit number (add additional pages if needed)
[Click here to enter text.](#)
- Discuss proposed stormwater management permits needed for the improvements. [Click here to enter text.](#)
- List specific utilities within project limits and describe any potential conflicts (add additional pages if needed): [Click here to enter text.](#)
- Discuss Bridges within project limits? [Click here to enter text.](#)
- Can bridges accommodate proposed improvements? Yes ☐ No ☐
If no, what bridge improvements are proposed? (Offset and dimensions of the improvements, add additional pages if needed):
[Click here to enter text.](#)

9. Has Right-of-way (ROW), easements, or ROW activity already been performed/acquired for the proposed improvements? If yes, please provide documentation

Yes ☐ No ☐ *(Not applicable)*

If ROW or Easements are needed detail expected area of need (acreage needed, ownership status):

[Click here to enter text.](#) *(Not applicable)*

10. Discuss required permits (ERP, Drainage, Driveway, Right of Way, etc.):

If none are needed, state the qualified exemption:

[Click here to enter text.](#) *(Not applicable)*

11. Are there any wetlands within the project limits? Yes ☐ ☐ No *(Not applicable)*

If yes, list the type of wetlands, estimated acreage and if mitigation will be required.

Please note whether the project is within the geographic service area of any approved mitigation banks. Provide any additional information:

[Click here to enter text.](#)

12. Are there any federal or state listed/protected species within the project limits?

Yes ☐ No ☐ *(Not applicable)*

If yes, list the species and what, if any mitigation or coordination will be necessary: [Click here to enter text.](#)

If yes, discuss critical habitat within the project limits: [Click here to enter text.](#)

13. Discuss whether any prior reviews or surveys have been completed for historical and archaeological resources (include year, project, results)

[Click here to enter text.](#) *(Not applicable)*

14. Are any Recreational, historical properties or resources covered under section 4(f) property within the project limits? Yes ☐ No ☐

(Provide details) [Click here to enter text.](#) *(Not applicable)*

15. Discuss whether any prior reviews or surveys have been completed for sites/facilities which may have potential contamination involvement with the proposed improvements. This should include a discussion of locations which may directly impact the project location, or be which may be exacerbated by the construction of the proposed improvements. [Click here to enter text.](#) *(Not applicable)*

16. Are lighting improvements requested as part of this project? Yes ☐ No ☒
Please provide a lighting justification report for the proposed lighting.
[Click here to enter text.](#)

17. Is a mid-block crossing proposed as part of the project? Yes ☐ No ☒
If yes, please provide the justification for mid-block crossing.
[Click here to enter text.](#)

Required Attachments

- A. Detailed Project Scope with Project Location Map with sufficient level of detail (Please include typical section of proposed improvements)
- B. Project Photos – dated and labeled (this is important!)
- C. Detailed Cost Estimates including Pay Items
- D. LRTP and Local CIP page
- E. Survey/As-builts/ROW documentation/Utility/Drainage information
- F. Detailed breakdown of ROW costs included in estimate (if ROW is needed/included in request or estimate)

Applicant Contact Information

Agency Name:

Mailing Address: 2885 South Horseshoe Dr., Naples FL 34104

Contact Name and Title: Pierre-Marie Beauvoir | Signal Systems Network Specialist

Email: pierre.beauvoir@colliercountyfl.gov **Phone:** (239) 252-6066

Signature: Pierre-Marie Beauvoir **Date:** 1 5 2021

Your signature indicates that the information included with this application is accurate.

Maintaining Agency:

Contact Name and Title: Click here to enter text.

Email: Click here to enter text.

Phone: Click here to enter text.

Signature: _____ **Date:** _____

Your signature serves as a commitment from your agency to maintain the facility requested.

MPO/TPO:

Contact Name and Title: Click here to enter text.

Email: Click here to enter text.

Phone: Click here to enter text.

Signature: _____ **Date:** _____

Your signature confirms the request project is consistent with all MPO/TPO plans and documents, is eligible, and indicates MPO/TPO support for the project.

Figure 6-6 presents the total costs by project phase for the SIS cost feasible projects for this 2045 LRTP update. **Figures 6-7** and **6-8** present the total costs by project phase and funding source, respectively, for the FDOT Other Roads and Local Roads cost feasible projects for this 2045 LRTP update.

Figure 6-6. Total Costs by Project Phase SIS Funded Projects 2026–2045 (YOE \$ in millions)

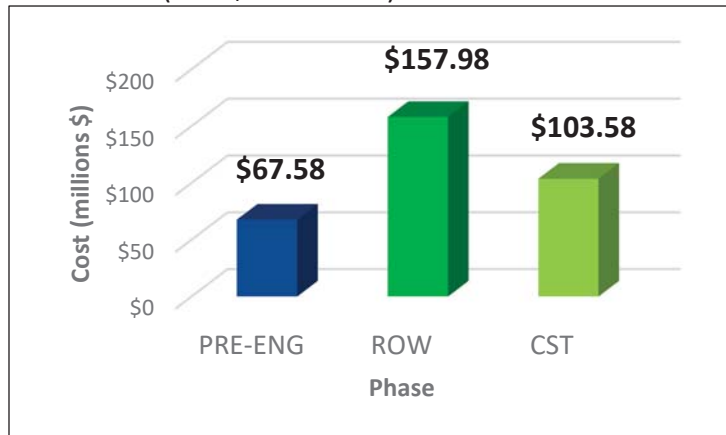


Figure 6-7. Total Costs by Project Phase for FDOT Other Roads and Local Roads Funded Projects 2026–2045 (YOE \$ in millions)

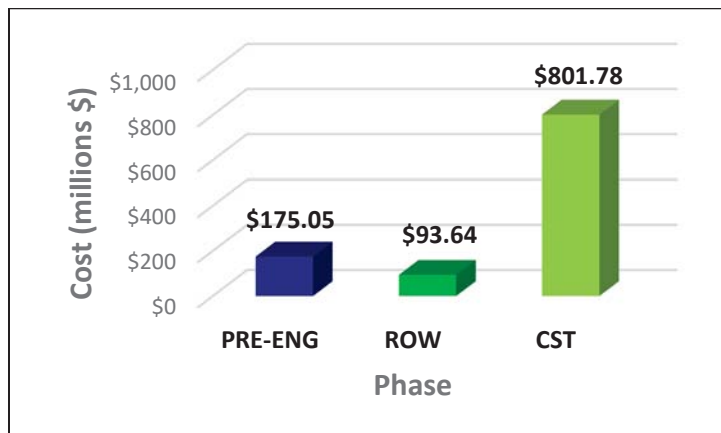
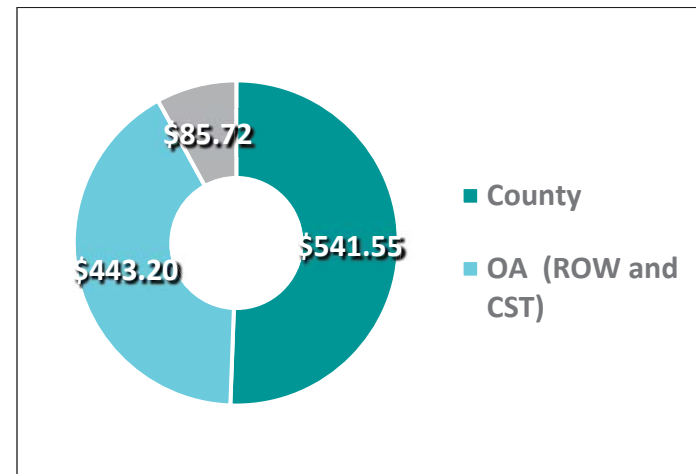


Figure 6-8. Total Costs by Funding Source 2026–2045 (YOE \$ in millions)



Funding of Other Roadway Needs

East of CR 951 Bridges

As noted in Chapter 4, there are 10 proposed canal crossing bridges that are the subject of the 2020 East of CR 951 Bridge Reevaluation Study. A 1-cent infrastructure surtax with specific funding earmarked for constructing these new bridges will be available within the next 7 years. A total of \$19.7 million in TMA (or SU) Funds is dedicated for bridge projects in the 2045 LRTP update:

- Planning Period 2026 to 2030: \$4.96 million for CST
- Planning Period 2031 to 2035: \$4.94 million for CST
- Planning Period 2036 to 2045: \$9.8 million for CST

Congestion Management Projects

Congestion management and ITS projects are generally short-term and immediate action projects. Therefore, their role in the LRTP process is modest and are more thoroughly addressed in the CMP. The current TIP includes several

improvements to the traffic management center, arterial monitoring cameras, and other traffic equipment improvements that address safety, active roadway management, and bicycle and pedestrian facilities. **Table 6-4** presents congestion management projects funded for construction in the 2021–2025 TIP.

The Collier MPO identified congestion management priorities resulting from the TSPR and the Local Road Safety Plan (Collier MPO 2020e). **Tables 6-5** and **6-6** present infrastructure and non-infrastructure multimodal strategies, respectively, that contribute to the MPO’s project selection process.

Table 6-4. Congestion Management Projects Funded in TIP

ITS Projects	Funded Amount	TIP/CIP Year
Bicycle Detection – City of Naples (refer to Figure 4-7 in Chapter 4)	\$66,429	CST 2024/25
ITS Fiber Optic and FPL Power Infrastructure at 13 locations	\$272,725	CST 2024/25
Travel Time Data Collection and Performance Measures	\$700,000	CST 2020/21
New Updated School Flasher System	\$353,250	CST 2024/25
New Vehicle Count Station Update (refer to Figure 4-7 in Chapter 4)	\$311,562	CST 2023/24
New Adaptive Traffic Control System at 13 signalized locations along Santa Barbara Boulevard and Golden Gate Parkway (refer to Figure 4-7 in Chapter 4)	\$893,000	PE 2023/24 CST 2024/25

Source: Collier MPO 2020 *Transportation System Performance Report & Action Plan*

Future congestion management projects will be prioritized through the MPO’s congestion management process. A total of \$40.45 million in TMA (or SU) Funds is dedicated for future congestion management projects in the 2045 LRTP update:

- Planning Period 2026 to 2030: \$10.17 million for CST
- Planning Period 2031 to 2035: \$10.13 million for CST
- Planning Period 2036 to 2045: \$20.15 million for CST

Other Consideration for SU Funds

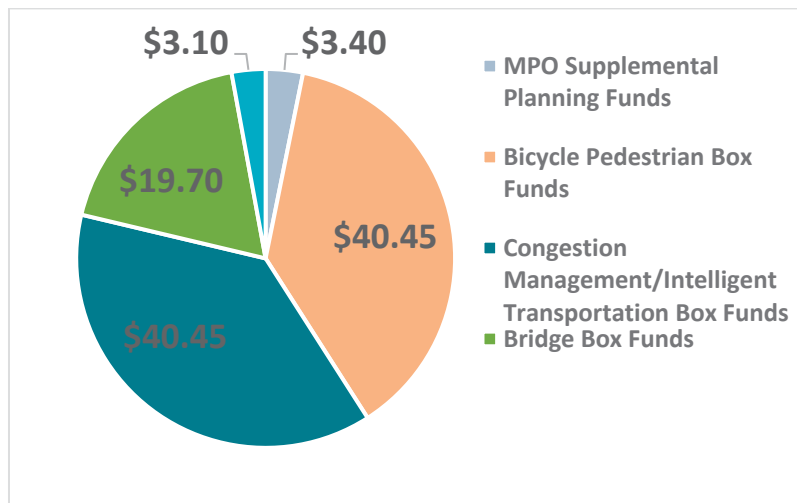
In addition to congestion management and bridge projects, the MPO allocates its TMA SU funds to planning, bicycle/pedestrian facilities, and safety projects. These five categories are often referred to as “SU Box” funds by the MPO. The Planning SU Box funds are used to supplement the MPO’s federal Planning (PL) funds to cover costs associated with updating the LRTP every 5 years. The MPO may also use SU Box funds to update the Bicycle and Pedestrian Master Plan, Transportation System Performance Report, Local Roads Safety Plan (LRSP), freight studies, and other plans and studies that are integral to updating the LRTP.

The MPO sets aside SU Box funds allocated to safety projects to implement the LRSP. The LRSP identifies priority projects that include engineering, enforcement, education, and emergency response. Safety projects will be vetted by the Congestion Management Committee, BPAC, TAC, and CAC before going to the MPO Board for adoption. The MPO may also choose to use Safety Box funds to supplement FDOT funding on safety projects that address the MPO’s and FDOT’s shared Vision Zero Safety Performance Targets. **Table 6-7** presents the presents the SU funds by planning year and project phase. **Figure 6-9** presents a summary of the allocation of SU Funds through 2045.

Table 6-7. SU Box Funds by Planning Year and Project Phase

Allocation Type	Plan Period 2: 2026-2030			Plan Period 3: 2031-2035			Plan Period 4: 2036-2045			Total Cost 2026- 2045
	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	
MPO Supplemental Planning Funds	\$0.70			\$0.80			\$1.90			\$3.40
Bicycle Pedestrian Box Funds			\$10.17			\$10.13			\$20.15	\$40.45
Congestion Management/Intelligent Transportation Box Funds			\$10.17			\$10.13			\$20.15	\$40.45
Bridge Box Funds			\$4.96			\$4.94			\$9.80	\$19.70
Safety			\$0.80			\$0.80			\$1.50	\$3.10

Figure 6-9. SU Fund Allocation Through 2045



4.0 Congestion Management Strategies

Federal guidance recommends that identification of congestion management strategies be based on their ability to support regional congestion management objectives, meet local context, and contribute to other regional goals and objectives. Strategies that effectively manage congestion and achieve congestion management goals and objectives established in the CMP process are selected to meet Collier County's specific needs. In the 2020 CMP update process, new CMP strategies were identified and added to the existing strategies list based on the analysis that was conducted in the Baseline Conditions Report which identified causes and locations of congested corridors and the Action Plan which analyzed and identified congestion mitigation strategies for the specific corridors. The main additions include safety strategies and strategies to address school related congestion. Table 4-1 lists the category and respective congestion management strategies identified to mitigate congestion along the CMP network in Collier County.

Table 4-1: Collier MPO Congestion Management Strategies

STRATEGIES: Demand Management (Programmatic), Transportation & Land Use Policy	Improved incident management
	Carpool/Vanpool Assistance and Carpool/Vanpool Technology including School Carpooling Apps
	Flexible Work Hours
	Transit Vouchers
	Transit Oriented Development
	Jobs/Housing Regional Balance
	Implement Complete Streets Policy All New Development
	High-Density & Mixed-Use Fixed Route Corridor
	School Dismissal timing (e.g. stagger dismissal times, dismissal automation software)
	Walking, Biking, Transit and School Bus Awareness/Education campaigns
	Safe Routes to School & School Zone Traffic Congestion Study
	Origin-Destination Study
STRATEGIES: Safety	Signage and Pavement Markings (e.g. special emphasis crosswalks, yield/stop for pedestrian signs, advanced street signs)
	Visibility and Sightline Improvements
	New and upgraded street lighting
	Traffic control devices (e.g. left turn signals, variable message signs, pedestrian hybrid beacons)
	New and Upgrade existing bicycle and pedestrian crossings



Action Plan

STRATEGIES: Transit	Amenities to Attract New Ridership
	MPO transit service expansion and improvement (e.g. frequency, hours of operation, realign routes)
	Regional Transit system Expansion
	Bus rapid transit corridor
	Park & Ride facilities
	Intermodal Hubs
	Transit ITS and MOD
	Arrival Prediction Technology
	Park-and-Ride lots
STRATEGIES: ITS & Access Management - Active Roadway Management	Expanded traffic signal timing & coordination - ITS
	Traffic Center Operations Enhancements
	Traffic signal equipment modernization - ITS
	Traveler information devices - ITS
	Communications networks & roadway surveillance - ITS
	Access management
	School Zone Traffic Calming Measures
	School Zone pedestrian and traffic signal optimization
	School off-site waiting lots and curbing and parking zones
STRATEGIES: Physical Roadway Capacity Enhancement	Intersection Improvements
	Replace intersections with round-abouts & other innovative designs
	Deceleration lanes and turn lanes
	New grade-separated intersections
	New travel lanes (general purpose)
	New roadway network connections
STRATEGIES: Bicycle & Pedestrian Facilities	New off-street pedestrian and multi-use facilities to close gaps in the transportation network and make connections to key destinations
	Integrated into TODs, High Density Corridors
	Regional Bike/Ped Facilities
	Complete Streets on New Facilities & Retrofit or new on-street bicycle
	Supporting bicycle infrastructure (e.g. secure and convenient parking, bike repair and pumps)



Project Proposal

ITS Vehicle Detection Update at Signalized Intersections in Collier County

Purpose:

The purpose of this project is to upgrade the County's Vehicle Detection System at signalized intersections on Collier County arterials, using the latest Intelligent Transportation System (ITS) technologies. Vehicle detectors inform traffic signal controllers of the presence of motorized vehicles and bicycles at a signalized intersection, mitigate congestion, and promote the efficient flow of vehicle traffic along municipal roadways.

Project Scope:

Although, Collier County Traffic Operations utilizes several types of vehicle detection to include, video detection, inductive loops, and radar sensors. We are currently looking to update our 134 video detection cameras at signalized intersections. This is to further develop a state-of-the-art ITS infrastructure and better position the County for the introduction of future technologies. Traffic Operations continues to test various detection systems by various manufacturers and ensuring these meet our requirements. The updated infrastructure will provide vehicle detection, vehicle traffic and turning movement counts, and allow for real-time configuration, monitoring and troubleshooting of these ITS devices, through the network from the Traffic Management Center (TMC).

The County's current video detection system dates to 2007 with failing part having been replaced in 2016. Additionally considering, weather conditions in southwest Florida, these systems are in desperate need of upgrading due to age, system failures and continued development in detection technologies. We are requesting a Grant in the amount of \$991,000 for this project. The project additionally prepares the County for the arrival of connected vehicles (CV), both autonomous and semi-autonomous. The County currently is using analog cameras and is testing digital and radar cameras for detection. In the future we expect Thermal, Radar and Lidar cameras to enter this field, providing more accurate detection. The estimated cost per camera is \$7,800 for 73 cameras, plus the additional costs depicted below.

Amount Requested and Estimated Total Project Cost:

Description	Total Cost
Detection Camera	\$635,100
Accessories	\$146,000
Software Application	\$25,000
Servers	\$30,000
Disk Storage	\$25,000
Licenses	\$15,000
Installation and Configuration	\$40,000
Maintenance – 5 years	\$75,000
TOTAL	\$991,000

Estimated Project Duration:

24 months

The project plan is to purchase and deploy vehicle detection camera systems at the signalized intersections on Collier County roadways, in the table below, to manage congestion.

Project Proposal

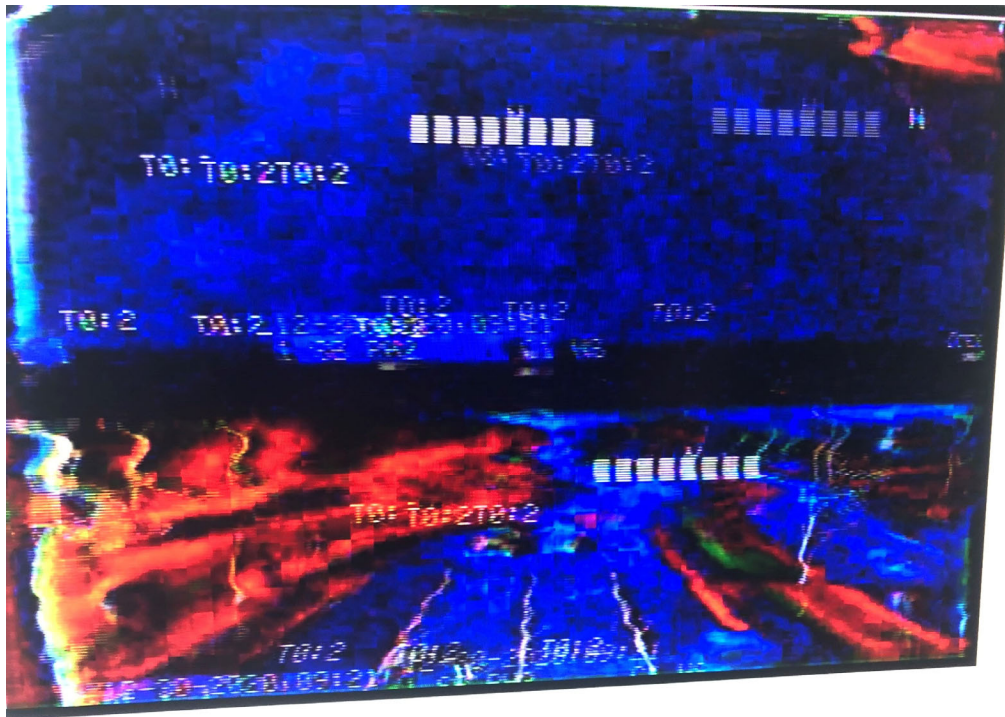
- 1 Airport Pulling Rd at Carillon Plaza/Pine Ridge Crossing
- 2 Airport Pulling Rd at Golden Gate Pkwy
- 3 Airport Pulling Rd at Immokalee Rd
- 4 Airport Pulling Rd at J& C Blvd/Fountainview Cir
- 5 Airport Pulling Rd at Pine Ridge Rd
- 6 Airport Pulling Rd at Vanderbilt Beach Rd
- 7 Collier Blvd at Business Cir S
- 8 Collier Blvd at City Gate Dr/ Magnolia Pond Dr
- 9 Collier Blvd at Crystal Lake Dr/Oak Ridge MS
- 10 Collier Blvd at Grand Lely Dr/Veronawalk Blvd
- 11 Collier Blvd at Lely Cultural Pkwy
- 12 Collier Blvd at Rattlesnake Hammock Rd
- 13 Collier Blvd at Tree Farm Rd
- 14 Collier Blvd at Vanderbilt Beach Rd
- 15 Golden Gate Blvd @ Big Cypress ES
- 16 Golden Gate Blvd at Max Hasse Park
- 17 Golden Gate Pkwy at Coronado Pkwy
- 18 Golden Gate Pkwy at Goodlette Frank Rd
- 19 Golden Gate Pkwy at Livingston Rd
- 20 Golden Gate Pkwy at Santa Barbara Blvd
- 21 Goodlette Frank Rd at 22nd Ave N
- 22 Goodlette Frank Rd at Granada Blvd/Moorings Park Dr
- 23 Goodlette Frank Rd at Immokalee Rd
- 24 Goodlette Frank Rd at Ohio Dr
- 25 Goodlette Frank Rd at Orange Blossom Dr
- 26 Goodlette Frank Rd at Pine Ridge Rd
- 27 Goodlette Frank Rd at Solana Rd
- 28 Goodlette Frank Rd at Vanderbilt Bch Rd
- 29 Goodlette Frank Rd at Wilderness Dr
- 30 Green Blvd at Sunshine Blvd
- 31 Immokalee Rd at Gulf Coast HS/Dancing Wind Ln
- 32 Immokalee Rd at Lakeland Ave/The Lane
- 33 Immokalee Rd at Laurel Oaks ES/Preserve Ln
- 34 Immokalee Rd at Livingston Rd
- 35 Immokalee Rd at Logan Blvd
- 36 Immokalee Rd at Northbrooke Dr/Tarpon Bay Blvd
- 37 Immokalee Rd at Oil Well Rd
- 38 Immokalee Rd at Orange Tree Blvd
- 39 Immokalee Rd at Palm River Blvd/Parnu St
- 40 Immokalee Rd at Randall Blvd/4th St NE
- 41 Immokalee Rd at Strand Blvd/Juliet Blvd
- 42 Immokalee Rd at Valewood Dr

Project Proposal

- 43 Immokalee Rd at Wilson Blvd4
- 44 Livingston Rd at Grey Oaks Blvd E/Wyndemere Way
- 45 Livingston Rd at Orange Blossom Dr
- 46 Livingston Rd at Osceola Trail/Sable Ridge Way
- 47 Livingston Rd at Pine Ridge Rd
- 48 Livingston Rd at Vanderbilt Beach Rd
- 49 Livingston Rd at Veterans Memorial Blvd
- 50 Naples Blvd at Hollywood Blvd
- 51 Oil Well Rd at Corkscrew ES/MS
- 52 Oil Well Rd at Everglades Blvd
- 53 Oil Well Rd at Palmetto Ridge HS/Victory Ln
- 54 Pine Ridge Rd at Naples Blvd
- 55 Pine Ridge Rd at Pine Ridge Crossing
- 56 Pine Ridge Rd at Whippoorwill Ln/Kramer Dr
- 57 Radio Rd at San Marcos Blvd
- 58 Radio Rd at Santa Barbara Blvd
- 59 Rattlesnake Hammock Rd at Grand Lely Dr/Skyway Dr
- 60 Rattlesnake Hammock Rd at Saint Andrews Blvd/Santa Barbara Blvd
- 61 Santa Barbara Blvd at Berkshire Pines Rd/Devonshire Blvd
- 62 Santa Barbara Blvd at Calusa Park ES
- 63 Santa Barbara Blvd at Prince Andrew Blvd/Recreation Ln
- 64 Seagate Dr at Myra Janco Daniels Blvd/West Blvd
- 65 Vanderbilt Beach Rd at Island Walk Blvd
- 66 Vanderbilt Beach Rd at Logan Blvd
- 67 Vanderbilt Beach Rd at Oakes Blvd
- 68 Vanderbilt Beach Rd at Strada Pl
- 69 Vanderbilt Beach Rd at Vanderbilt Dr
- 70 Vanderbilt Beach Rd at Village Walk Cir/Wilshire Lakes Blvd
- 71 Vanderbilt Beach Rd at Vineyards Blvd
- 72 Vanderbilt Dr at 111th Ave N/ Bluebill Ave
- 73 Vanderbilt Dr at Wiggins Pass Rd

Project Proposal

Detection Camera issues due to aging.



Collier MPO Congestion Management - Project Concept Sheet

A. REQUIRED PROJECT INFORMATION:

1. Name of Project (ITS) ATMS Retiming of Arterials
2. Name of Applicant Pierre-Marie Beauvoir
3. Name of Submitting Jurisdiction Collier County
4. If this is a multi-jurisdictional application, please list the jurisdictions involved

5. Describe the project and its purpose, including the project limits (if applicable). Attachment? ☐
The purpose of this project is to perform retiming of arterials and isolated intersections in Collier County listed below and in Addendum "A". The work will entail, conducting vehicle traffic counts, and the development and implementation of timing plans.
6. Amount of CMC/ITS SU Box funds being requested \$ 698,000 Estimated Total Project Cost \$ 698,000 If SU Box funds are not requested, what funding source would be most appropriate? _____
7. Are there specific technical and/or monetary local contributions for this project? If yes, please explain.

YES ☒ NO ☐

If the project exceeds our estimated costs, we will need local funds for completion or reduce the scope.

8. Anticipated time to complete the project 24 months
9. Does this project require the acquisition of Right-of-Way? YES ☐ NO ☒
10. Is this project on a congested corridor? Identify the corridor. YES ☒ NO ☐

The project will be carried out on the following corridors:

(See Project Proposal and Addendum "A" below).

11. Does this project address a documented safety problem? Explain.

YES ☒ NO ☐

The retiming of these intersection will reduce congestion and ensure the optimal flow of vehicle and pedestrian traffic along County roadways.

12. Does this project address a strategy listed on the implementation matrix?

YES ☒ NO ☐

13. Does this project maintain concurrency with FDOT Regional ITS architecture?

YES ☒ NO ☐

14. Does this project promote one or more multi-modal solutions by advancing recommendations from an adopted MPO study? Please identify.

YES ☐ NO ☒

B. PROJECT SPECIFIC DESCRIPTION:

CHECK ALL STATEMENTS BELOW THAT APPLY TO THE PROJECT WITH EXPLANATION OF HOW IT APPLIES. (If project is funded, you will be expected to provide data to the MPO with 2 years and 5 years of construction/implementation for performance measures selected.)



1. Travel Demand - Describe how the project addresses one or more of the following Performance Measures:

- a. Percent of roadway miles by volume to capacity (V/C) ratio
- b. Percent of vehicle miles traveled by volume to capacity (v/c) ratio
- c. Number of signalized intersections connected to ATMS

This project will improve travel times on the selected arterials.



2. Transit Travel – Describe how the project addresses one or more of the following performance measures:

- a. Average bus route service frequency and number of routes
- b. Passenger trips (annual ridership)
- c. Passenger trips per revenue hour
- d. Transit on time performance



3. Pedestrian/Bicycle Facilities – Describe how project addresses one or more of the following Performance Measures:

- a. Centerline miles of bicycle lanes

- b. Linear miles of connector sidewalks on arterial roadways
- c. Linear miles of Shared Use paths adjacent to roadways

This project will enhance the flow of traffic for vehicles, bicyclists and pedestrians, through the optimization of traffic signals in the selected corridors.

Bay Shore

- ☐ 4. Goods Movement – Describe how project addresses one or more of the following performance measures:
- a. Vehicle miles traveled (VMT) on designated truck routes with V/C greater than 1/0
 - b. Number of crashes involving heavy vehicles/trucks

- ☒ 5. Safety– Describe how project addresses one or more of the following performance measures:
- a. Total crashes
 - b. Motor vehicle severe injury crashes
 - c. Motor vehicle fatal crashes
 - d. Pedestrian and bicycle severe injury and fatal crashes

This project will address staff and motorist safety through the reduction in congestion.

- ☐ 6. TDM– Describe how project addresses one or more of the following performance measures:
- a. Number of people registered in the FDOT Commute Connector database that have an origin in Collier County

- ☐ 7. Accessibility– Describe how project addresses one or more of the following performance measures:
- a. Share of regional jobs within ¼ mile of transit
 - b. Share of regional households within ¼ mile of transit

- ☐ 8. Incident Duration– Describe how project addresses one or more of the following performance measures:
- a. Mean time for responders to arrive on scene after notification

b. Mean incident clearance time

c. Road Ranger stops

☐ 9. Customer Service– Describe how project addresses one or more of the following performance measures:

a. Report on nature of comments/responses and customer satisfaction



**District One
Priority Project Information Packet**

***Please fill out this application completely. Please ensure all attachments are LEGIBLE
Applications containing insufficient information will not be reviewed by the FDOT.***

Name of Applying Agency: Collier County

Project Name: (ITS) ATMS Retiming of Arterials and Isolated Intersections

Project Category:

Congestion Management ☒ TRIP ☐ CIGP ☐ **SU Bike-Ped** ☐
Transportation Alternative ☐ Transit/Modal ☐ SCOP ☐ SCRAP ☐

For more information on State Grant Programs (CIGP, SCOP, SCRAP, TRIP) [please click here](#).

Is applicant LAP certified? Yes ☒ No ☐

Is project on State Highway System? Yes ☐ No ☒

If the project is off the state system and the applicant is LAP certified the project will be programmed as a LAP project.

Is the roadway on the Federal Aid Eligible System? Yes ☐ No ☒

If yes, provide Federal Aid roadway number: [Click here to enter text](#).

If no, give local jurisdiction: Collier County

<http://www.fdot.gov/statistics/fedaaid/>

Detailed Project Limits/Location:

Describe begin and end points of project, EX., from ABC Rd. to XYZ Ave. Limits **run south to north or west to east**. Include jurisdiction (city/county), project length, attach a labeled project, map.

Discuss how this project is consistent with the MPO/TPO Long Range Transportation Plan?

Page Number (attach page from LRTP): The MPO's Congestion Management Process and funding amounts are referenced in the 2045 LRTP on pages 6-11 to 6-12 and on Table 6-7 SU Box Funds by Planning Year and Project Phase, on p 6-15. As stated in the LRTP, "Future congestion management projects will be prioritized through the MPO's congestion management process (CMP)." The LRTP references the Transportation System Performance Report (TSPR) Action Plan. The project is eligible under Section 4.0 Congestion Management Strategies, Table 4-1 pages 4-1 & 4-2. Specifically, ITS & Access Management – Active Roadway Management. Strategies include: Traffic signal [& monitoring] equipment modernization; Traffic Center Operations Enhancements (through improved data collection in the field); Communications networks & roadway surveillance - ITS.

Discuss the project in the local jurisdiction's Capital Improvement Plan?

(Attach page from CIP):

Project Description

Phase(s) requested:

Planning Study ☐ PD&E ☐ PE ☐ ROW ☐ CST ☐ CEI ☐

Project cost estimates by phase (Please include detailed cost estimate and documentation in back-up information): *(Not applicable)*

Phase (PD&E, ROW, PE, CST)	Estimated Total Cost	Funds Requested	Matching Local Funds	Local Fund Source	Type of Match (Cash, in-kind)
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]

Total Project Cost: \$ [698,000]

Project Details: Clearly describe the existing conditions and the proposed project and desired improvements in detail. Please provide studies, documentation, etc., completed to-date to support or justify the proposed improvements. Include labeled photos and maps. (Add additional pages if needed):

**See Project Proposal and Addendum "A" below.*

The questions below are not applicable, for our project entails the acquisition and installation of video detection cameras at specified signalized intersections along County roadways.

Constructability Review

For items 2-9 provide labeled and dated photos (add additional pages if needed)

1. Discuss other projects (ex. drainage, utility, etc.) programmed (local, state or federal) within the limits of this project? *N/A*
2. Does the applicant have an adopted ADA transition plan? Yes ☐ Identify areas within the project limits that will require ADA retrofit. (Include GIS coordinates for stops and labeled photos and/or map.) No ☒
N/A
3. Is there a rail crossing along the project?
Yes ☐ No ☒
What is the Rail MP?
Enter MP
4. Are there any transit stops/shelters/amenities within the project limits?
Yes ☐ No ☒
How many? [Click here to enter text.](#)
Stop ID number: [Click here to enter text.](#)

5. Is the project within 10-miles of an airport? Yes ☒ No ☐ (Not applicable)

6. Coordinate with local transit and discuss improvements needed or requested for bus stops?

(add additional pages if needed):

[Click here to enter text.](#)

7. Are turn lanes being added? Yes ☐ No ☒

If yes, provide traffic counts, length, and location of involved turn lanes.

[Click here to enter text.](#)

8. Drainage structures: (Not applicable)

- Number of culverts or pipes currently in place: [Click here to enter text.](#)
- Discuss lengths and locations of each culvert along the roadway: [Click here to enter text.](#)
- Discuss the disposition of each culvert and inlet. Which culverts are “to remain” and which are to be replaced, upgraded, or extended? [Click here to enter text.](#)
- Discuss drainage ditches to be filled in?
(Discuss limits and quantify fill in cubic yards) [Click here to enter text.](#)
- Describe the proposed conveyances system (add additional pages if needed.)
[Click here to enter text.](#)
- Are there any existing permitted stormwater management facilities/ponds within the project limits? Yes ☐ No ☐
- If yes, provide the location and permit number (add additional pages if needed)
[Click here to enter text.](#)
- Discuss proposed stormwater management permits needed for the improvements. [Click here to enter text.](#)
- List specific utilities within project limits and describe any potential conflicts (add additional pages if needed): [Click here to enter text.](#)
- Discuss Bridges within project limits? [Click here to enter text.](#)
- Can bridges accommodate proposed improvements? Yes ☐ No ☐
If no, what bridge improvements are proposed? (Offset and dimensions of the improvements, add additional pages if needed):
[Click here to enter text.](#)

9. Has Right-of-way (ROW), easements, or ROW activity already been performed/acquired for the proposed improvements? If yes, please provide documentation

Yes ☐ No ☐ (Not applicable)

If ROW or Easements are needed detail expected area of need (acreage needed, ownership status):

[Click here to enter text.](#) (Not applicable)

10. Discuss required permits (ERP, Drainage, Driveway, Right of Way, etc.):

If none are needed, state the qualified exemption:

[Click here to enter text.](#) (Not applicable)

11. Are there any wetlands within the project limits? Yes ☐ ☐ No (Not applicable)

If yes, list the type of wetlands, estimated acreage and if mitigation will be required.

Please note whether the project is within the geographic service area of any approved mitigation banks. Provide any additional information:

[Click here to enter text.](#)

12. Are there any federal or state listed/protected species within the project limits?

Yes ☐ No ☐ (Not applicable)

If yes, list the species and what, if any mitigation or coordination will be necessary: [Click here to enter text.](#)

If yes, discuss critical habitat within the project limits: [Click here to enter text.](#)

13. Discuss whether any prior reviews or surveys have been completed for historical and archaeological resources (include year, project, results)

[Click here to enter text.](#) (Not applicable)

14. Are any Recreational, historical properties or resources covered under section 4(f) property within the project limits? Yes ☐ No ☐

(Provide details) [Click here to enter text.](#) (Not applicable)

15. Discuss whether any prior reviews or surveys have been completed for sites/facilities which may have potential contamination involvement with the proposed improvements. This should include a discussion of locations which may directly impact the project location, or be which may be exacerbated by the construction of the proposed improvements. [Click here to enter text.](#) (Not applicable)

16. Are lighting improvements requested as part of this project? Yes ☐ No ☒
Please provide a lighting justification report for the proposed lighting.
[Click here to enter text.](#)

17. Is a mid-block crossing proposed as part of the project? Yes ☐ No ☒
If yes, please provide the justification for mid-block crossing.
[Click here to enter text.](#)

Required Attachments

- A. Detailed Project Scope with Project Location Map with sufficient level of detail (Please include typical section of proposed improvements)
- B. Project Photos – dated and labeled (this is important!)
- C. Detailed Cost Estimates including Pay Items
- D. LRTP and Local CIP page
- E. Survey/As-builts/ROW documentation/Utility/Drainage information
- F. Detailed breakdown of ROW costs included in estimate (if ROW is needed/included in request or estimate)

Applicant Contact Information

Agency Name:

Mailing Address: 2885 South Horseshoe Dr., Naples FL 34104

Contact Name and Title: Pierre-Marie Beauvoir | Signal Systems Network Specialist

Email: pierre.beauvoir@colliercountyfl.gov **Phone:** (239) 252-6066

Signature: Pierre-Marie Beauvoir **Date:** 1/4/2021

Your signature indicates that the information included with this application is accurate.

Maintaining Agency:

Contact Name and Title: Click here to enter text.

Email: Click here to enter text.

Phone: Click here to enter text.

Signature: _____ **Date:** _____

Your signature serves as a commitment from your agency to maintain the facility requested.

MPO/TPO:

Contact Name and Title: Click here to enter text.

Email: Click here to enter text.

Phone: Click here to enter text.

Signature: _____ **Date:** _____

Your signature confirms the request project is consistent with all MPO/TPO plans and documents, is eligible, and indicates MPO/TPO support for the project.

Figure 6-6 presents the total costs by project phase for the SIS cost feasible projects for this 2045 LRTP update. **Figures 6-7** and **6-8** present the total costs by project phase and funding source, respectively, for the FDOT Other Roads and Local Roads cost feasible projects for this 2045 LRTP update.

Figure 6-6. Total Costs by Project Phase SIS Funded Projects 2026–2045 (YOE \$ in millions)

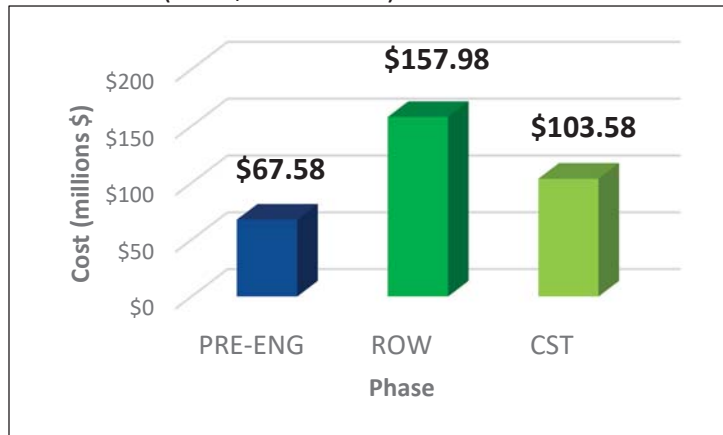


Figure 6-7. Total Costs by Project Phase for FDOT Other Roads and Local Roads Funded Projects 2026–2045 (YOE \$ in millions)

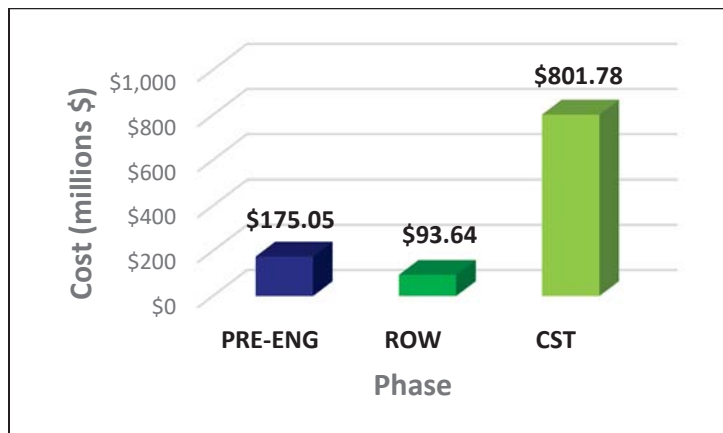
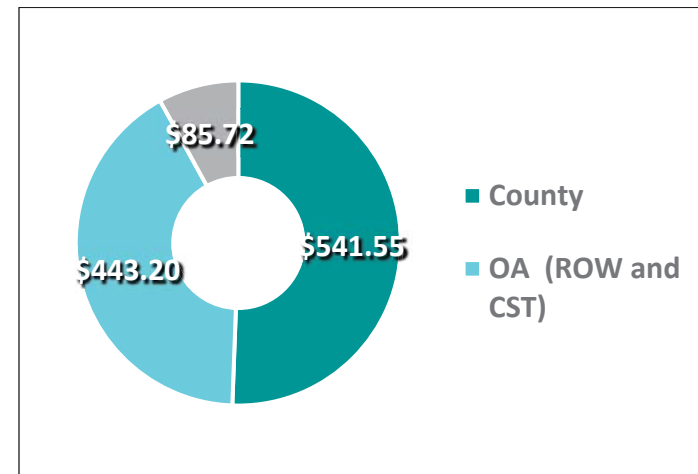


Figure 6-8. Total Costs by Funding Source 2026–2045 (YOE \$ in millions)



Funding of Other Roadway Needs

East of CR 951 Bridges

As noted in Chapter 4, there are 10 proposed canal crossing bridges that are the subject of the 2020 East of CR 951 Bridge Reevaluation Study. A 1-cent infrastructure surtax with specific funding earmarked for constructing these new bridges will be available within the next 7 years. A total of \$19.7 million in TMA (or SU) Funds is dedicated for bridge projects in the 2045 LRTP update:

- Planning Period 2026 to 2030: \$4.96 million for CST
- Planning Period 2031 to 2035: \$4.94 million for CST
- Planning Period 2036 to 2045: \$9.8 million for CST

Congestion Management Projects

Congestion management and ITS projects are generally short-term and immediate action projects. Therefore, their role in the LRTP process is modest and are more thoroughly addressed in the CMP. The current TIP includes several

improvements to the traffic management center, arterial monitoring cameras, and other traffic equipment improvements that address safety, active roadway management, and bicycle and pedestrian facilities. **Table 6-4** presents congestion management projects funded for construction in the 2021–2025 TIP.

The Collier MPO identified congestion management priorities resulting from the TSPR and the Local Road Safety Plan (Collier MPO 2020e). **Tables 6-5** and **6-6** present infrastructure and non-infrastructure multimodal strategies, respectively, that contribute to the MPO’s project selection process.

Table 6-4. Congestion Management Projects Funded in TIP

ITS Projects	Funded Amount	TIP/CIP Year
Bicycle Detection – City of Naples (refer to Figure 4-7 in Chapter 4)	\$66,429	CST 2024/25
ITS Fiber Optic and FPL Power Infrastructure at 13 locations	\$272,725	CST 2024/25
Travel Time Data Collection and Performance Measures	\$700,000	CST 2020/21
New Updated School Flasher System	\$353,250	CST 2024/25
New Vehicle Count Station Update (refer to Figure 4-7 in Chapter 4)	\$311,562	CST 2023/24
New Adaptive Traffic Control System at 13 signalized locations along Santa Barbara Boulevard and Golden Gate Parkway (refer to Figure 4-7 in Chapter 4)	\$893,000	PE 2023/24 CST 2024/25

Source: Collier MPO 2020 *Transportation System Performance Report & Action Plan*

Future congestion management projects will be prioritized through the MPO’s congestion management process. A total of \$40.45 million in TMA (or SU) Funds is dedicated for future congestion management projects in the 2045 LRTP update:

- Planning Period 2026 to 2030: \$10.17 million for CST
- Planning Period 2031 to 2035: \$10.13 million for CST
- Planning Period 2036 to 2045: \$20.15 million for CST

Other Consideration for SU Funds

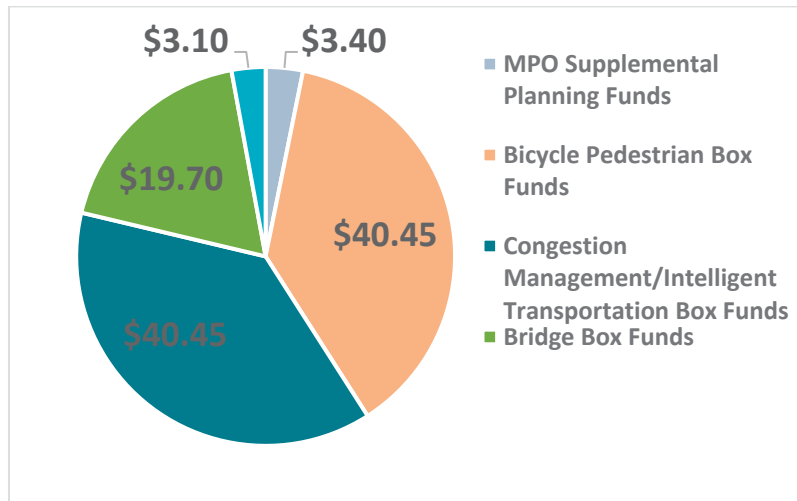
In addition to congestion management and bridge projects, the MPO allocates its TMA SU funds to planning, bicycle/pedestrian facilities, and safety projects. These five categories are often referred to as “SU Box” funds by the MPO. The Planning SU Box funds are used to supplement the MPO’s federal Planning (PL) funds to cover costs associated with updating the LRTP every 5 years. The MPO may also use SU Box funds to update the Bicycle and Pedestrian Master Plan, Transportation System Performance Report, Local Roads Safety Plan (LRSP), freight studies, and other plans and studies that are integral to updating the LRTP.

The MPO sets aside SU Box funds allocated to safety projects to implement the LRSP. The LRSP identifies priority projects that include engineering, enforcement, education, and emergency response. Safety projects will be vetted by the Congestion Management Committee, BPAC, TAC, and CAC before going to the MPO Board for adoption. The MPO may also choose to use Safety Box funds to supplement FDOT funding on safety projects that address the MPO’s and FDOT’s shared Vision Zero Safety Performance Targets. **Table 6-7** presents the presents the SU funds by planning year and project phase. **Figure 6-9** presents a summary of the allocation of SU Funds through 2045.

Table 6-7. SU Box Funds by Planning Year and Project Phase

Allocation Type	Plan Period 2: 2026-2030			Plan Period 3: 2031-2035			Plan Period 4: 2036-2045			Total Cost 2026- 2045
	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	
MPO Supplemental Planning Funds	\$0.70			\$0.80			\$1.90			\$3.40
Bicycle Pedestrian Box Funds			\$10.17			\$10.13			\$20.15	\$40.45
Congestion Management/Intelligent Transportation Box Funds			\$10.17			\$10.13			\$20.15	\$40.45
Bridge Box Funds			\$4.96			\$4.94			\$9.80	\$19.70
Safety			\$0.80			\$0.80			\$1.50	\$3.10

Figure 6-9. SU Fund Allocation Through 2045



4.0 Congestion Management Strategies

Federal guidance recommends that identification of congestion management strategies be based on their ability to support regional congestion management objectives, meet local context, and contribute to other regional goals and objectives. Strategies that effectively manage congestion and achieve congestion management goals and objectives established in the CMP process are selected to meet Collier County's specific needs. In the 2020 CMP update process, new CMP strategies were identified and added to the existing strategies list based on the analysis that was conducted in the Baseline Conditions Report which identified causes and locations of congested corridors and the Action Plan which analyzed and identified congestion mitigation strategies for the specific corridors. The main additions include safety strategies and strategies to address school related congestion. Table 4-1 lists the category and respective congestion management strategies identified to mitigate congestion along the CMP network in Collier County.

Table 4-1: Collier MPO Congestion Management Strategies

STRATEGIES: Demand Management (Programmatic), Transportation & Land Use Policy	Improved incident management
	Carpool/Vanpool Assistance and Carpool/Vanpool Technology including School Carpooling Apps
	Flexible Work Hours
	Transit Vouchers
	Transit Oriented Development
	Jobs/Housing Regional Balance
	Implement Complete Streets Policy All New Development
	High-Density & Mixed-Use Fixed Route Corridor
	School Dismissal timing (e.g. stagger dismissal times, dismissal automation software)
	Walking, Biking, Transit and School Bus Awareness/Education campaigns
	Safe Routes to School & School Zone Traffic Congestion Study
	Origin-Destination Study
STRATEGIES: Safety	Signage and Pavement Markings (e.g. special emphasis crosswalks, yield/stop for pedestrian signs, advanced street signs)
	Visibility and Sightline Improvements
	New and upgraded street lighting
	Traffic control devices (e.g. left turn signals, variable message signs, pedestrian hybrid beacons)
	New and Upgrade existing bicycle and pedestrian crossings



Action Plan

STRATEGIES: Transit	Amenities to Attract New Ridership
	MPO transit service expansion and improvement (e.g. frequency, hours of operation, realign routes)
	Regional Transit system Expansion
	Bus rapid transit corridor
	Park & Ride facilities
	Intermodal Hubs
	Transit ITS and MOD
	Arrival Prediction Technology
	Park-and-Ride lots
STRATEGIES: ITS & Access Management - Active Roadway Management	Expanded traffic signal timing & coordination - ITS
	Traffic Center Operations Enhancements
	Traffic signal equipment modernization - ITS
	Traveler information devices - ITS
	Communications networks & roadway surveillance - ITS
	Access management
	School Zone Traffic Calming Measures
	School Zone pedestrian and traffic signal optimization
	School off-site waiting lots and curbing and parking zones
STRATEGIES: Physical Roadway Capacity Enhancement	Intersection Improvements
	Replace intersections with round-abouts & other innovative designs
	Deceleration lanes and turn lanes
	New grade-separated intersections
	New travel lanes (general purpose)
	New roadway network connections
STRATEGIES: Bicycle & Pedestrian Facilities	New off-street pedestrian and multi-use facilities to close gaps in the transportation network and make connections to key destinations
	Integrated into TODs, High Density Corridors
	Regional Bike/Ped Facilities
	Complete Streets on New Facilities & Retrofit or new on-street bicycle
	Supporting bicycle infrastructure (e.g. secure and convenient parking, bike repair and pumps)



Project Proposal

ATMS Retiming of Arterials in Collier County

Purpose:

The purpose of this project is to perform retiming of arterials and isolated intersections in Collier County listed below and in Addendum “A”. The work will entail, conducting vehicle traffic counts, the development and implementation of timing plans.

Amount Requested and Estimated Total Project Cost: *(See cost table below)*

Description	Total Cost
Retiming of Arterials and Isolated Intersections	\$881,850
TOTAL	\$881,850

Estimated Project Duration:

24 months

Project Scope:

The project includes the retiming of Arterials and Isolated Intersections at approximately 40 intersections listed below and will include conducting traffic counts, the development and implementation of timing plans, as well as fine tuning each signalized intersection for optimum performance and the deployment of necessary technologies, required to ensure optimum intersection performance. The work will also include a before and after snapshot of the project arterials.

Collier Blvd

1. Collier Blvd @ Magnolia Blvd/White Utility Rd
2. Collier Blvd @ I-75N
3. Collier Blvd @ I-75S
4. Collier Blvd @ Davis Blvd
5. Collier Blvd @ Business Cir

Rattlesnake Hammock Rd

6. Rattlesnake Hammock Rd @ County Barn Rd
7. Rattlesnake Hammock Rd @ Santa Barbara Blvd
8. Rattlesnake Hammock Rd @ Grand Lely Dr
9. Rattlesnake Hammock Rd @ Collier Blvd
10. Rattlesnake Hammock Rd @ Lely Cultural Pkwy

Immokalee Rd/Oilwell Rd

11. Immokalee @ Collier Charter School
12. Immokalee @ Wilson Blvd N
13. Immokalee @ Randall Blvd/4th St NE

Project Proposal

14. Immokalee @ Orange Tree
15. Immokalee @ Oilwell
16. Oilwell Rd @ Corkscrew ES/MS
17. Oilwell Rd @ Palmetto HS/Victory Ln

Goodlette Frank Rd/Golden Gate Pkwy

18. Goodlette Frank @ Granada Dr/Moorings Park Dr
19. Goodlette Frank @ Solana Rd
20. Goodlette Frank @ Ohio Dr
21. Goodlette Frank @ Wilderness Dr
22. Goodlette Frank @ 22nd Ave N
23. Goodlette Frank @ Golden Gate Pkwy
24. Goodlette Frank @ Fleishman Blvd
25. Goodlette Frank @ 14th Ave N
26. Goodlette Frank @ 13th Ave N
27. Golden Gate Pkwy @ Naples HS/Coastland Center Mall

Radio Rd

1. Radio Rd @ Devonshire Blvd

Santa Barbara Blvd

2. Santa Barbara Blvd @ Radio Rd
3. Santa Barbara Blvd @ Devonshire Blvd/Berkshire Pines Rd
4. Santa Barbara Blvd @ Prince Andrew Blvd/Recreation Ln
5. Santa Barbara Blvd @ Golden Gate Blvd
6. Santa Barbara Blvd @ Coronado Pkwy
7. Santa Barbara Blvd @ Greene Blvd

Golden Gate Pkwy

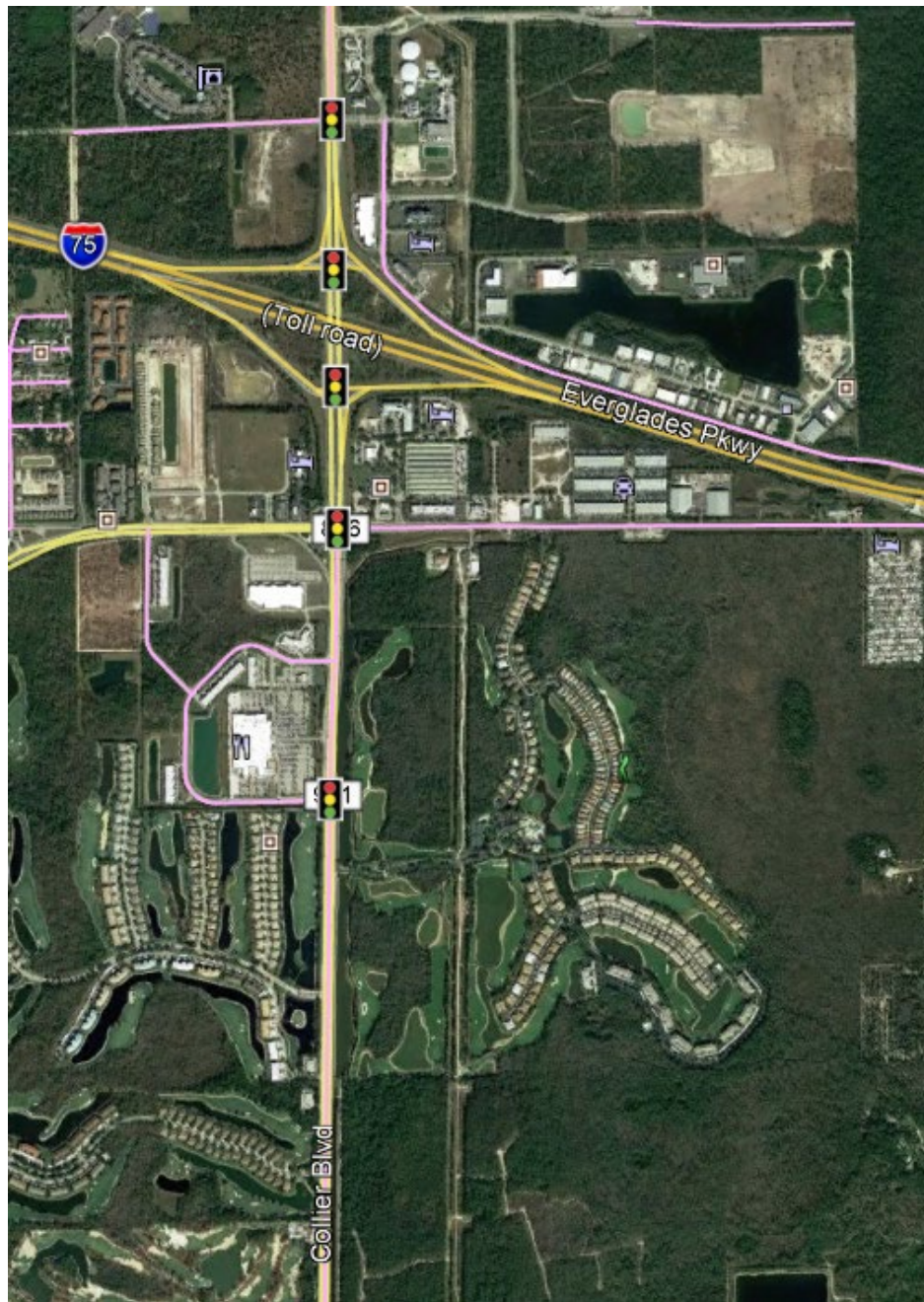
8. Golden Gate Pkwy @ 53rd St
9. Golden Gate Pkwy @ 50th St
10. Golden Gate Pkwy @ Tropicana Blvd
11. Golden Gate Pkwy @ Coronado Pkwy
12. Golden Gate Pkwy @ Sunshine Blvd/47th St
13. Golden Gate Pkwy @ 44th St

Coordinated Signalization Retiming Cost Estimates (Adjusted for Inflation)										
Inflation Adjusted Year:	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Average Adjusted Cost:	\$12,417.44	\$13,038.31	\$13,690.23	\$14,374.74	\$15,093.48	\$15,848.15	\$16,640.56	\$17,472.59	\$18,346.21	\$19,263.53
Traffic Controller Programming:	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00
Estimated Fine Tuning:	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
Estimated Final Report:	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
Total:	\$16,117.44	\$16,738.31	\$17,390.23	\$18,074.74	\$18,793.48	\$19,548.15	\$20,340.56	\$21,172.59	\$22,046.21	\$22,963.53

Total Cost for 40 Intersections: **\$881,848.58**

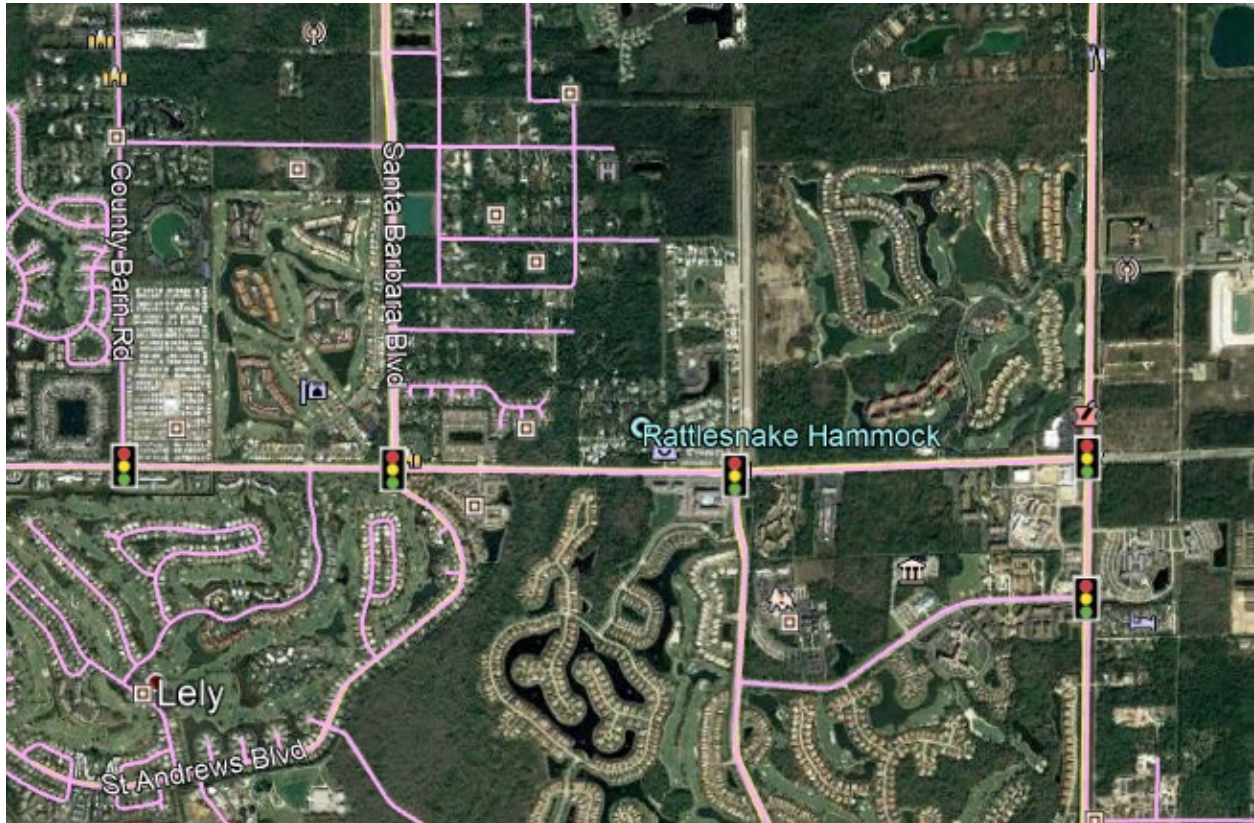
Project Proposal

Collier Blvd - 5 Intersections to be re-timed to address I-75 traffic flow.

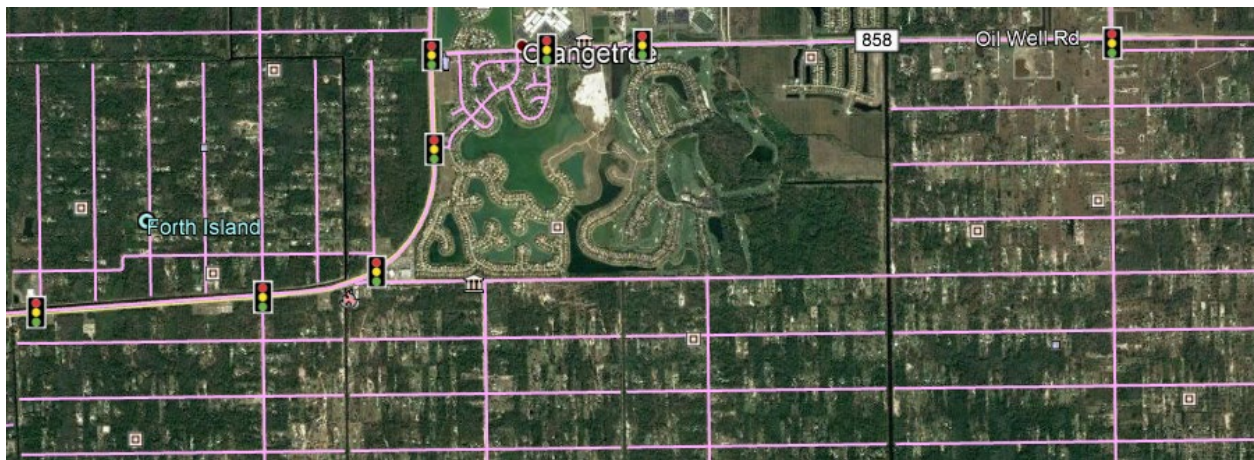


Project Proposal

Rattlesnake Hammock Rd - 5 Intersections to be re-timed for improved traffic flow.



Immokalee Rd/Oilwell Rd - 8 Intersections to be re-timed, to improve traffic flow and reduce congestion.



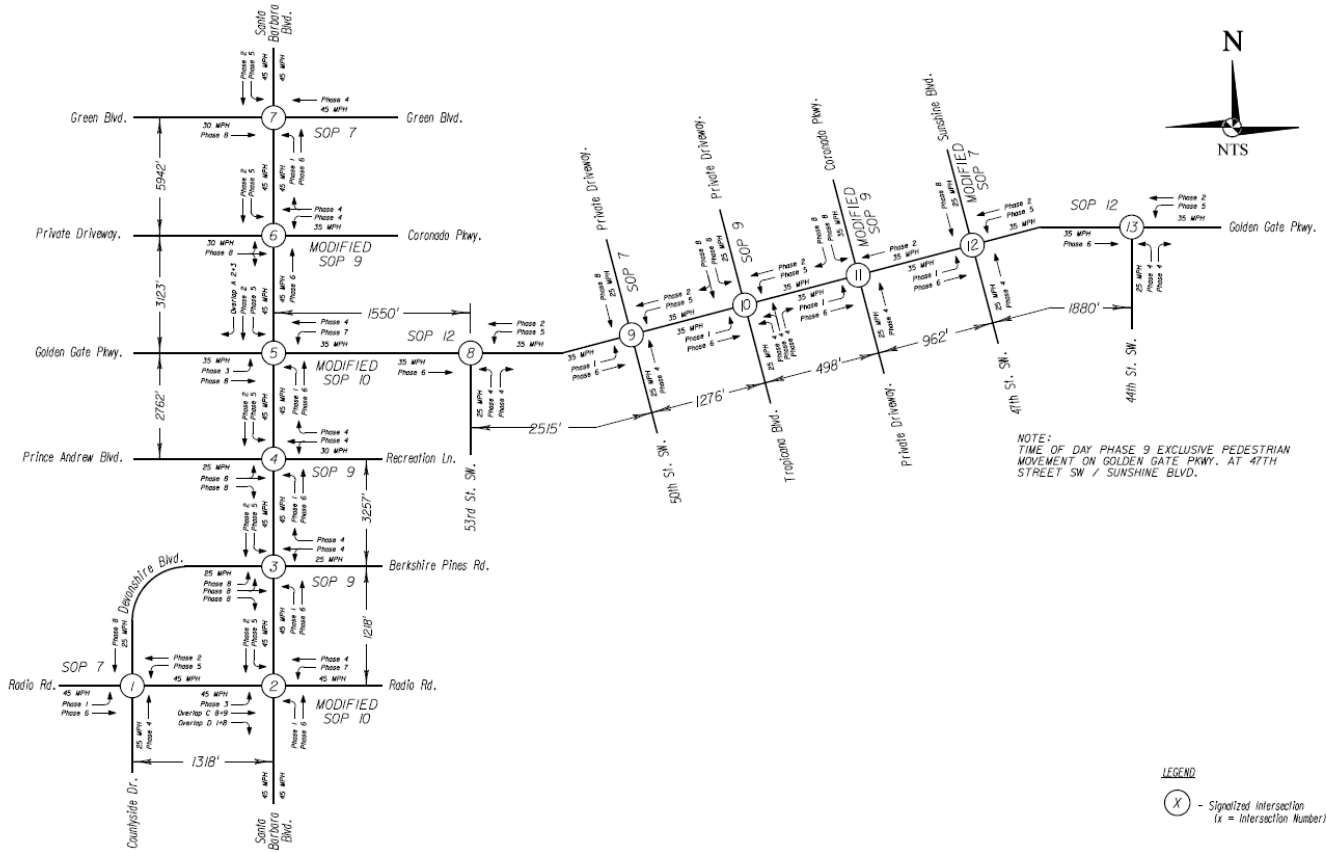
Project Proposal

Goodlette Frank Rd/Golden Gate Pkwy - 10 Intersections to be re-timed, improving the flow of traffic.



Golden Gate Blvd and Santa Barbara Corridors - 13 Signalized Intersections, numbered 1 -13.

This is a highly traveled corridor both in the morning and evening for access to and from the Estates.



Evaluation Criteria and Scores			2021	7B Attachment 4													
			General Project Evaluation			Project Specific											
Project ID #	Project Name	Submitting Agency/ Jurisdiction	Supported by Multiple Jurisdictions Yes - 3 pts No - 0 pts	Local Monetary Contribution? Yes 3pt No 0 pts	Requires Acquisition of ROW Yes 0 pts Med 3pts Low 3 pts	Uses TSM Approach *High 5 pts Med 3 pts Low 1 pt	Uses TDM Strategy *High 5pts Med 3 pts Low 1 pt	Existing ITS *High 5 pts Med 3pts Low 1 pt	Increases Security Yes 3pt No 0 pt	Increases Safety *High 5pts Med 3 pts Low or No 0 pts	Promotes Regional Connectivity *High 5pts Med 3pts Low 1 pt	Promotes Multi-Modal Solutions *High 5pts Med 3 pts Low 1 pt	Protects Environmental Resources *High 5 pts Med 3 pts Low 1 pt	Promotes Economic Development or Freight Movement *High 5 pts Med 3pts Low 1 pt	TOTAL POINTS	RANKING	
1	91st Ave N (Construction of a 5' wide sidewalk along the south side of the road)	Collier County															
2	Vanderbilt Beach Road Corridor Study	Collier County															
3	ITS Fiber Optic and FPL Power Infrastructure - 13 locations	Collier County															
4	ITS Vehicle Detection Update/Installation at Signalized Intersections in Collier County	Collier County															
5	ITS ATMS Retiming of Arterials	Collier County															
*TSM Scoring			ITS Scoring			Regional Connectivity											
High	turn lanes, signal improvements, enhances emergency operations response on LOS F facilities		High	affects arterial roadways; or addresses critical need due to insufficient communication and/or system improvements		High	enhances inter-county connectivity of highways or transit										
Med	turn lanes, signal improvements, enhances emergency operations response on LOS E facilities		Med	affects collector roadways or addresses a critical need		Med	enhances inter-county connectivity of pathways, bikeways or tails										
Low	turn lanes, signal improvements, enhances emergency operations response on LOS D facilities		Low	nonspecific location or project to address contingency system back up or purchase miscellaneous equipment		Low	on a facility identified on regional network										
TDM Scoring			Safety Scoring			Multimodal Scoring											
High	adds new transit route or new park & ride facility or cooperates with regional TDM program		High	addresses documented safety problem; reduces total no vehicular, ped/bike or transit related crashes or serious injuries; increases bike/ped safety at high traffic location; and/or increases/improves safety of emergency responders; or reduces number of secondary incidents resulting from primary		High	improves at least 3 modes or increases connectivity between motorized and non-motorized modes										
Med	increases existing carpooling, vanpooling, transit or a park & ride facility		Med			Med	enhances at least 2 modes										
Low	adds new bicycle or pedestrian facilities					Low	improves 1 mode or increases transit ridership on a specific oute, increases transit enhancements such as park & ride lots or bus shelters or other enhancements for non-motorized facilities										
Environmental Scoring			Economic Development/Freight Movement Scoring														
High	reduces air quality emissions; reduces fuel consumption by reducing corridor congestion		High	located at and directly affects access to airports, major activity or freight centers		High											
Med	reduces fuel consumption by reducing specific intersection delays		Med	located near and affects access to airports, high employment areas, freight activity centers		Med											
Low	supports general congestion avoidance measures		Low	can promote overall economic development		Low											

EXECUTIVE SUMMARY
Distribution Items
Item 10A

Draft 2021 MPO Calendar

OBJECTIVE: For the Committee to receive a copy of the 2021 MPO Calendar.

CONSIDERATIONS: The 2021 MPO Calendar is provided in **Attachment 1**. Subsequent changes will be noted and distributed on an as-needed basis.

STAFF RECOMMENDATION: For the Committee to receive a copy of the 2021 MPO Calendar.

Prepared By: Anne McLaughlin, MPO Director

Attachment 1: 2021 MPO Calendar



2021 Meeting Schedule

Collier Metropolitan Planning Organization (MPO)
2885 S. Horseshoe Drive, Naples, FL 34104

www.CollierMPO.com

(239) 252-5814

STRIKETHROUGH = CANCELLED MEETING
DATES IN RED = ADDED MEETING

UPDATED 12/10/20

Metropolitan Planning Organization (MPO) – Monthly at 9:00 a.m.

All MPO Board Meetings are held on the second Friday of the month. MPO Board Meetings will be held at the Board of County Commissioners Chambers, 3299 E. Tamiami Trail, Naples, unless otherwise noted.

February 12, 2021	March 12, 2021	*April 9, 2021	May 14, 2021
June 11, 2021	September 10, 2021	October 8, 2021	October 15, 2021**
November 12, 2021	December 10, 2021		
* This is the Collier MPO road-show meeting held at 10:00 a.m. in Immokalee			
** This a JOINT MEETING with Lee MPO, location TBD			

Technical Advisory Committee (TAC) – Monthly at 9:30 a.m.

All TAC Meetings are held on the last Monday of the month. TAC Meetings will be held at the Collier Growth Management Department, Planning & Regulation Building Conference Rooms 609/610, 2800 North Horseshoe Drive, Naples, unless noted below.

January 25, 2021	February 22, 2021	March 29, 2021	April 26, 2021
May 24, 2021	August 30, 2021	September 27, 2021	October 25, 2021
** October XX, 2021	November 29, 2021		
** This a JOINT MEETING with Lee MPO, location TBD			

Citizen Advisory Committee (CAC) – Monthly at 2:00 p.m.

All CAC Meetings are held on the last Monday of the month. CAC Meetings will be held at the Collier County Growth Management Division, Planning & Regulation Building Conference Rooms 609/610, 2800 North Horseshoe Drive, Naples, unless noted below..

January 25, 2021	February 22, 2021	March 29, 2021	April 26, 2021
May 24, 2021	August 30, 2021	September 27, 2021	October 25, 2021
** October XX, 2021	November 29, 2021		
*This is a JOINT MEETING with Lee CAC, location and date TBD			

Bicycle/Pedestrian Advisory Committee (BPAC) – Monthly at 9:00 a.m.

All BPAC Meetings are held on the third Tuesday of the month. BPAC Meetings will be held at the Collier County Growth Management Division, Planning & Regulation Building Conference Rooms 609/610, 2800 North Horseshoe Drive, Naples, unless noted below.

January 19, 2021	February 16, 2021	March 16, 2021	April 20, 2021
May 18, 2021	August 17, 2021	*August XX, 2021	September 21, 2021
October 19, 2021	November 16, 2021		
*This is a JOINT MEETING with Lee BPCC, location and date TBD			

Congestion Management Committee (CMC) – Bi-Monthly at 2:00 p.m.

All CMC Meetings are held on the third Wednesday of every other month. CMC Meetings will be held at the Collier County Growth Management Division, Planning & Regulation Building Conference Rooms 609/610, 2800 North Horseshoe Drive, Naples, unless noted below.

January 20, 2021	March 17, 2021	May 19, 2021	July 21, 2021
*September 15, 2021	November 17, 2021		
*Location for this meeting will be held at the Collier Growth Management Department Construction and Maintenance Building, Main Conference Room, 2885 South Horseshoe Drive, Naples			

Local Coordinating Board (LCB) for the Transportation Disadvantaged – Quarterly at 1:30 p.m.

All LCB Meetings are held quarterly on the first Wednesday of the corresponding month. LCB Meetings will be held will be held at the Board of County Commissioners Chambers, 3299 E. Tamiami Trail, Naples, unless otherwise noted.

March 3, 2021	May 5, 2021	September 1, 2021	December 1, 2021
---------------	-------------	-------------------	------------------