# East of CR-951 Bridges Reevaluation Study

Collier County Capital Project Planning, Impact Fees & Program Management Division

Bridges #9 – 16<sup>th</sup> St. SE & #10 – Wilson Blvd. S. Neighborhood Information Meeting October 8, 2020





#### Presentation Agenda

- 1 Introductions
- 2 History & Background
- 3 Purpose of the Study
- 4 Study Process
- 5 Analysis of Bridges # 9 & #10
- 6 Next Steps & Questions



#### 1 Introductions

- ✓ Lorraine Lantz, AICP, Principal Planner Collier County Project Manager
- ✓ Trinity Scott, Transportation Planning Manager Collier County
- ✓ Yvonne McClellan, Sr. Communications Manager Quest Corp. of America
- ✓ Miranda Lansdale, Sr. Communications Manager Quest Corp. of America
- ✓ Jeff Perry, AICP, Sr. Transportation Planner Stantec Consulting Project Manager



#### **Questions Session Guidelines**

- The Questions Session will follow the formal presentation.
- Attendees can submit questions via the Questions chat box at any time following the start of the presentation, and questions will be answered in the order in which they were received.
- All participants will be muted throughout the presentation, and the project team will read aloud your question prior to providing a response for the benefit of all attendees.
- If you did not have the opportunity to ask a question during the meeting today, you can submit your questions/comments to <u>Lorraine.Lantz@colliercountyfl.gov</u> or call 239-252-5779, and they will be included as part of the public participation process.



# **Questions Session Guidelines**

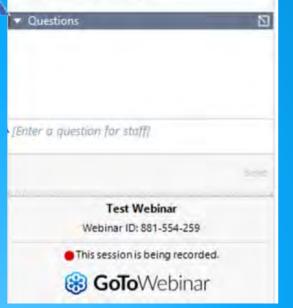
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Switch between computer and phone audio options here

 The webinar presentation will be available in PDF format with other project materials at

http://colliercountyfl.gov/planningstudies.

You will remain muted during the meeting.

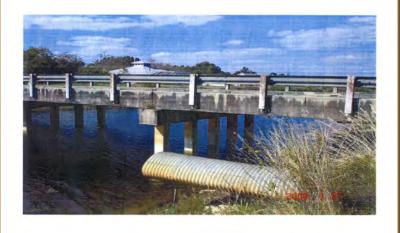






**Transportation Services Division** 

FOR BRIDGES
AUGUST 2008



In August 2008, Collier County completed the East of 951 Horizon Study for Bridges (2008 Study).

We would like to know if you are familiar with that study.



The 2008 Study was conducted to evaluate opportunities to construct missing bridge connections in the Golden Gate Estates Area roadway network.

 Within the 85 square miles of eastern Golden Gate Estates there are more than 300 dead-end streets.



The 2008 Study considered potential transportation circulation benefits:

- Improving connectivity to collectors and arterials
- Reducing trip length for personal travel
- Improving evacuation routes
- Reducing response times for first responders
- Improving access to schools, libraries, and parks

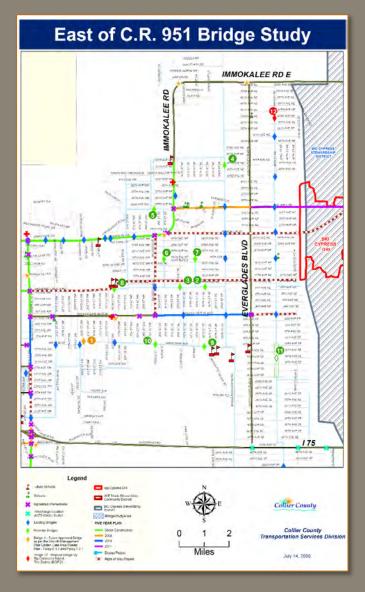
The 2008 Study's stakeholders identified 12 preferred canal-crossing locations.

Due to limited funding, bridges were ranked based on criteria related to emergency response, service efficiency and mobility.



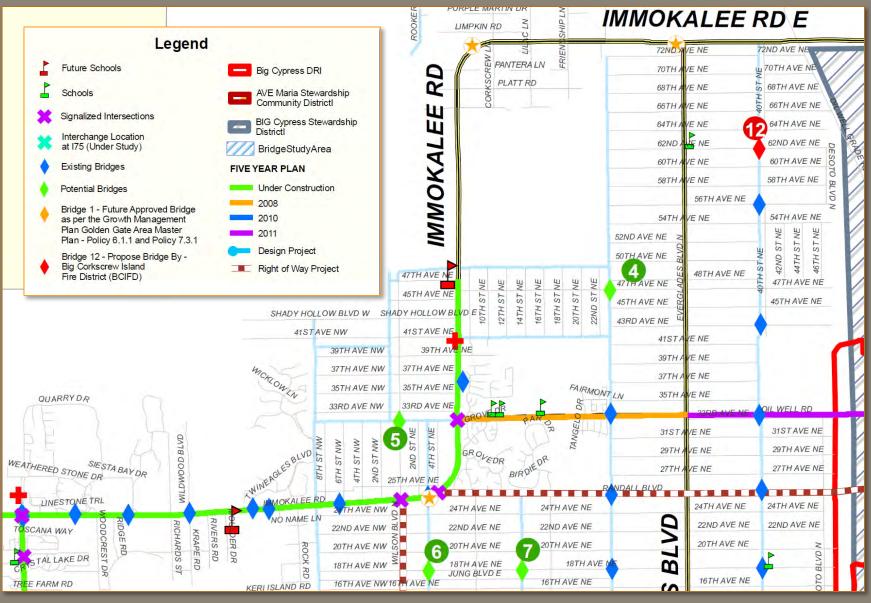
2008 Study Bridge Ref. #	Bridge Locations
1	23rd St. SW (south of Golden Gate Blvd.)
2	16th St. NE (north of Golden Gate Blvd.)
3	8th St. NE (north of Golden Gate Blvd.)
4	47th Ave. NE (between Immokalee Rd. & Everglades Blvd.)
5	Wilson Blvd. N (south of 33 <sup>rd</sup> Ave. NE)
6	18th Ave. NE (between Wilson Ave. & 8th St. NE)
7	18th Ave. NE (between 8th St. NE & 16th St. NE)
8	North End of 13th St. NW (north of Golden Gate Blvd.)
9	16th St. SE (south of Golden Gate Blvd.)
10	Wilson Blvd. S (south of Golden Gate Blvd.)
11	10th Ave. SE (between Everglades Blvd. & Desoto Blvd.)
12	62nd Ave. NE (between Everglades Blvd. and 40 <sup>th</sup> St. NE)





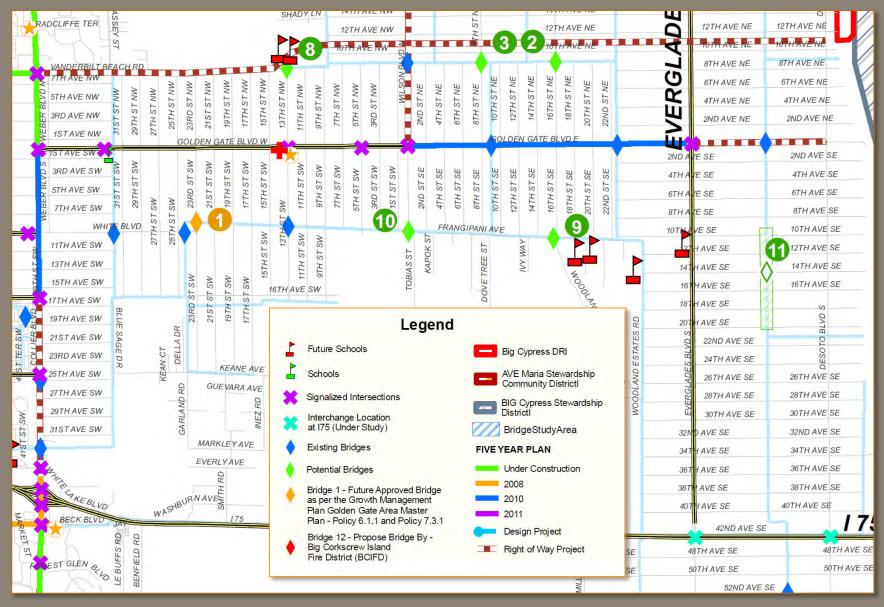
Map of 12 bridges from the 2008
Bridge Study





Map of Bridges in the north portion of the Study Area





Map of Bridges in the south portion of the Study Area



2018 - Collier County voters approved a 1-cent infrastructure surtax that included funding specifically earmarked to construct the bridges within the next 7 years.

We would like to know if you are aware of the Surtax.



2019 - Collier County completed construction of Bridge #3 on 8<sup>th</sup> St. NE with funding from the FDOT.

2019 - Collier County programmed construction of Bridge #2 on 16<sup>th</sup> St. NE in the 5-Year Work Program with funds from the infrastructure surtax proceeds.



The remaining 10 bridges are the subject of this 2020 Reevaluation Study.

Bridge#	Bridge Locations
1	23rd St. SW (south of Golden Gate Blvd.)
4	47th Ave. NE (between Immokalee Rd. & Everglades Blvd.)
5	Wilson Blvd. N (south of 33 <sup>rd</sup> Ave. NE)
6	18th Ave. NE (between Wilson Ave. & 8th St. NE)
7	18th Ave. NE (between 8th St. NE & 16th St. NE)
8	North End of 13th St. NW (north of Golden Gate Blvd.)
9	16th St. SE (south of Golden Gate Blvd.)
10	Wilson Blvd. S (south of Golden Gate Blvd.)
11	10th Ave. SE (between Everglades Blvd. & Desoto Blvd.)
12	62nd Ave. NE (between Everglades Blvd. and 40 <sup>th</sup> St. NE)



The purpose of this 2020 Reevaluation Study is to reconfirm the validity of the remaining 10 recommended bridge locations before moving the bridge projects into production (design, permitting & construction).



This 2020 Reevaluation Study focused on the same important criteria considered in the original 2008 Study.



#### The 2008 Study Criteria Included:

- Improved connectivity to collectors and arterials (route choice)
- Reduced trip length for personal travel
- Improved evacuation routes
- Reduced response times for first responders
- Improved access to schools, libraries, and parks



The Transportation Planning Team interviewed the same agency stakeholders from the 2008 Study:

- Collier County Sheriff's Office (CCSO)
- Emergency Services Division (EMS)
- North Collier Fire Control & Rescue District
- Greater Naples Fire & Rescue District
- Collier County Public School District



All the agencies interviewed reconfirmed the importance of the bridge locations that were recommended in the original 2008 Study.



The Transportation Planning Team also recognized that over time, the ownership of some of the properties along the dead-end roads leading to the new bridges would likely have changed since the 2008 Study's public engagement effort.



A notice of this meeting was mailed to property owners along the affected roadways, supplemented by door-to-door visits.

We would like to know how you heard about this meeting.

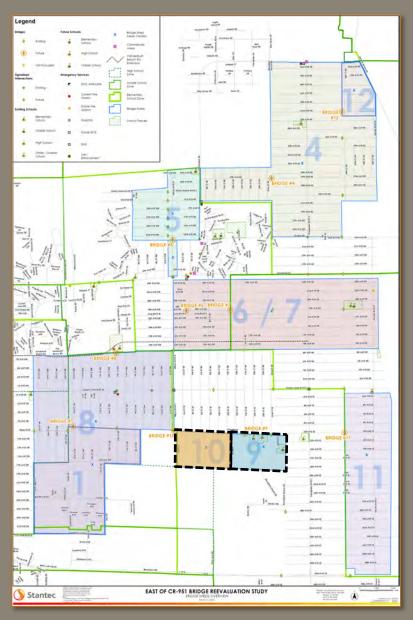


This neighborhood presentation is intended to provide the affected landowners with:

- The history & background of the bridges
- The Reevaluation Study findings
- The latest information about the bridge projects
- An opportunity to ask questions and provide comments



The study process established nine "Bridge-Sheds" with boundaries that recognized those parcels likely to benefit from a new bridge.





Analysts conducted a Geographic Information System (GIS) analysis of each Bridge-Shed to:

- Quantify the number of affected parcels, and
- Measure the benefits derived from a new bridge



The GIS analysis quantified the number of existing homes (2019) and the total number of parcels (Build-Out) in each Bridge-Shed.



Within each Bridge-Shed, the GIS analysis established and measured representative travel routes for different trip purposes (e.g., route to reach an arterial roadway), with and without a new bridge.



For each trip purpose, the GIS analysis quantified the number of homes in 2019 and at Build-Out in each Bridge-Shed that would benefit from the reduced trip length because of the new bridge.



The Residential Trip Purposes examined included:

- Travel to reach the arterial network
- Travel to school(s)
- Travel to commercial/retail
- Travel to parks



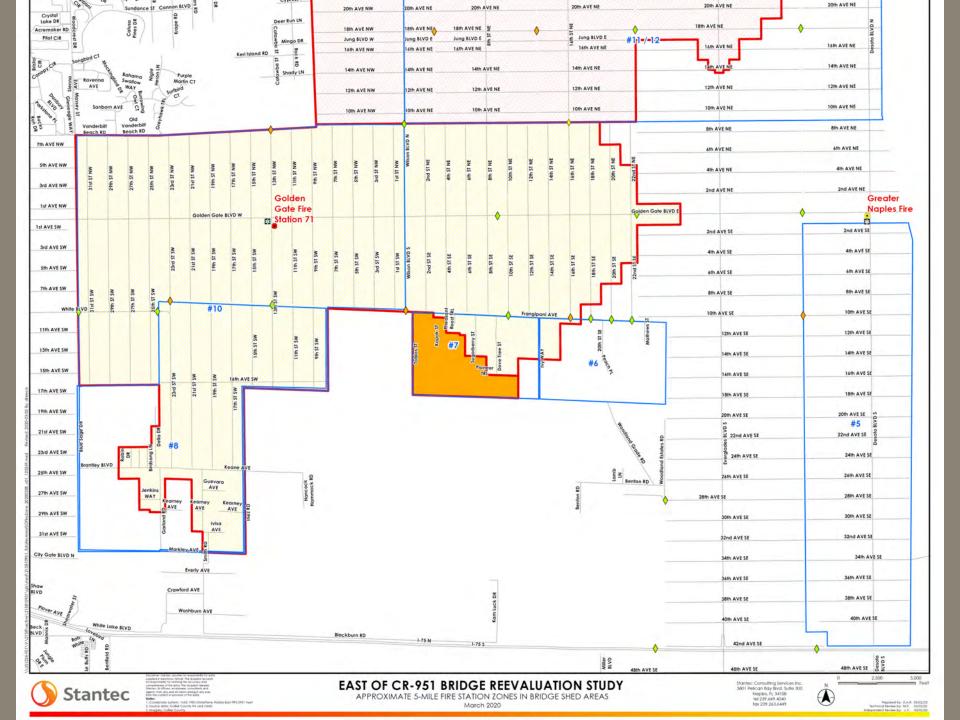
The Agency Trip Purposes examined included:

- Fire Department Response
- Sheriff's Office (CCSO) Response
- Emergency Medical Service Response
- Access to Future Schools



The study also included a supplemental Fire District analysis to determine if any parcels currently <u>not</u> within the Insurance Services Office (ISO) 5-mile drive distance from a fire station (Public Protection Classification Score of 3), would be included if a new bridge was constructed.





#### 5 Bridge Project Prototype

As mentioned previously, Bridge #3 on 8<sup>th</sup> St. NE was recently constructed and will serve as the prototypical

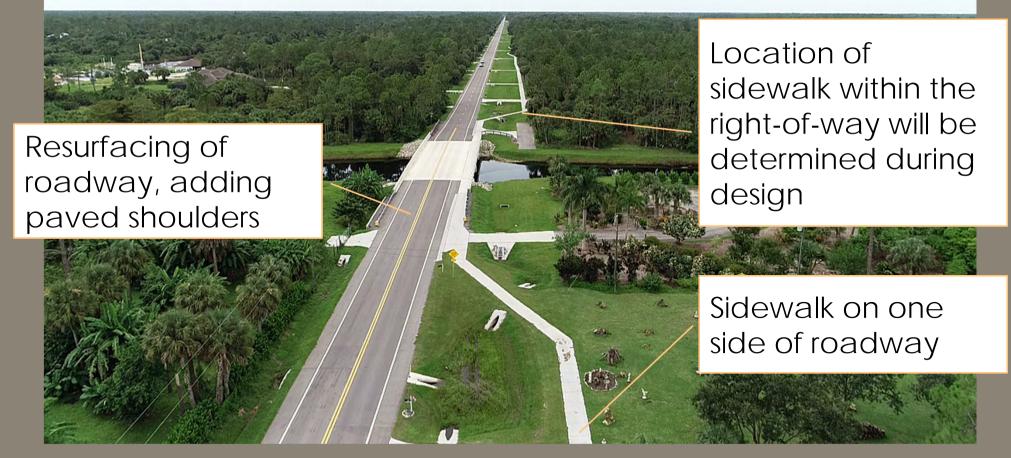
bridge
project for
the remaining
10 bridges.





# 5 Bridge Project Prototype

The new bridge on 8<sup>th</sup> St. NW is seen as the prototypical bridge project to be constructed at the remaining 10 locations





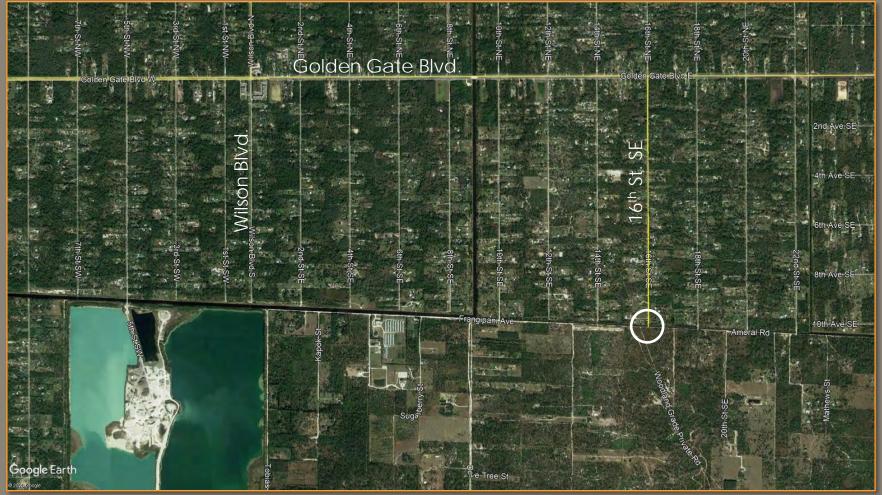
### 5 Analysis of Bridge #9

16th St. SE

Bridge #9 is located on 16<sup>th</sup> Ave. SE, south of Golden Gate Blvd.

















The Bridge #9 Project Includes the Following Improvements:

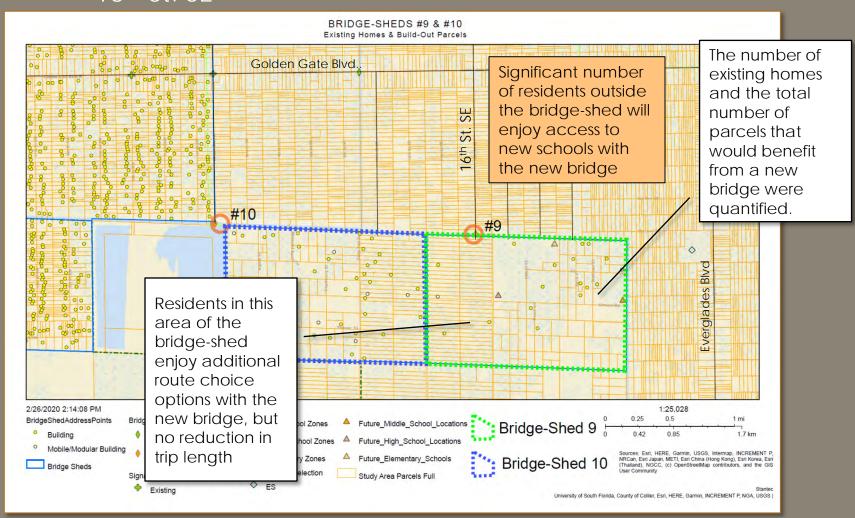
- Resurfacing 16<sup>th</sup> Ave. SE from Golden Gate Blvd. to the bridge (+/- 1.27 miles)
- Adding paved shoulders
- Adding a Sidewalk along one side of roadway



#### Design Considerations Include:

 Intersection improvements (e.g., turn lanes, traffic signal, etc.) at the intersection of Golden Gate Blvd. & 16<sup>th</sup> Ave. NE/SE





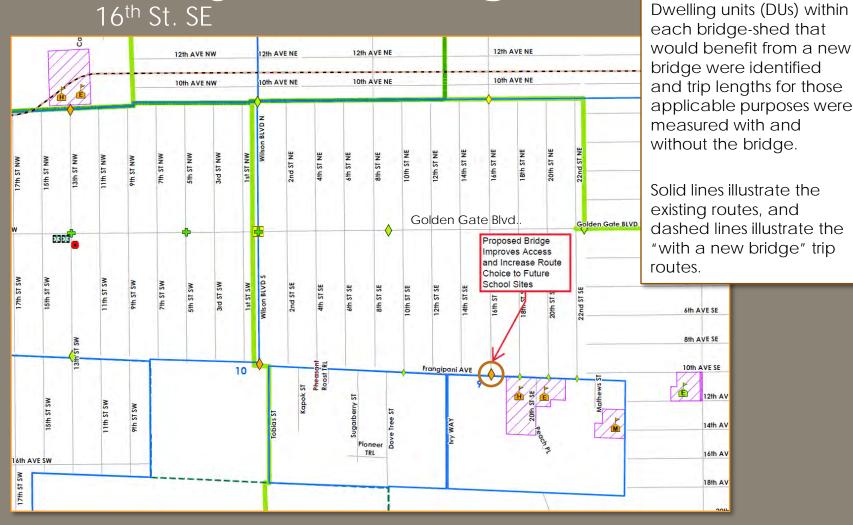


# 5 Analysis of Bridge #9& #10 23rd St. SW, North of White Blvd.

#### Importance of study criteria

- Improved connectivity to collectors and arterials (route choice)
- Reduced trip length for personal travel
- Improved evacuation routes (route choice)
- Reduced response times for first responders
- Improved access to schools, libraries, and parks

We would like to know which of the criteria are important to you.



The trip length and housing unit data was put into a worksheet to quantify the benefits realized with a new

bridge.

			20	19									NOTE
1			Di	stance (mi	les)	Trips	VMT <sup>1</sup>	Gallons	Gallons	Days	Gallons	VMT	
		DUs	W/O Bridge	W/ Bridge	Saved per Trip	per Day	Saved per day	Saved per day @ 30 mpg	Home per Day	per Year	Saved per Home per Year	Saved per Home per day	
Reduces Travel Distance/Time to Reach Arterial Network	No				0.0	4	0	0	1.0	300	- 7		
Reduces Travel Distance/Time to Reach Schools	No				.0.0	4	0	0	-	180		-	
Reduces Travel Distance/Time to Commercial/Retail	No				0.0	2	0	0	4	90	1.5	9	
Reduces Travel Distance/Time to Reach Parks	No				0.0	2	0	0	-	24	+	15.0	
Increases Resident's Route Choice Options; Improves Evacuation Access	Yes	18							rossing stru nd 22nd St. S		t the		
				stance (mi									
		DUs	W/O Bridge	W/ Bridge	Saved per Trip								
Reduces Travel Distance/Response Time For Fire First Responders	No				0.0	No	Reduction						
Response Time (minutes) at 30 MPH			0.0	0.0	0.0		Response	time					
Reduces Travel Distance/Response Time For CCSO First Responders	No		0.0	0.0	0.0	Up to	a Reducti	on of					
Response Time (minutes) at 45 MPH			0.0	0.0	0.0	No	in Respon	se Time					
Reduces Travel Distance/Response Time For EMS First Responders	No				0.0	No	Reduction						
Response Time (minutes) at 35 MPH			0.0	0.0	0.0		Response	lime					
Reduces Travel Distance to Fire Station to Improves ISO Public Protection Classification Score	No												
Improves School Bus Route Operations	No	Existing residents			al likley t	o contin	ue to use t	he existing	bus stop loc	otion a	t Frangipan	i and 10th	



16<sup>th</sup> St. SE

			20	19								
			Di	stance (mi	les)	Trips	VMT <sup>1</sup>	Gallons	Gallons	Days	Gallons	VMT <sup>1</sup>
		DUs	W/O Bridge	W/ Bridge	Saved per Trip	per Day	Saved per day	Saved per day @ 30 mpg	Saved per Home per Day	per Year	Saved per Home per Year	Calculation and Calculation
Reduces Travel Distance/Time to Reach Arterial Network	No				0.0	4	0	0	2	300	541	(4)
Reduces Travel Distance/Time to Reach Schools	No				0.0	4	0	0	2	180	0.51	- 0
Reduces Travel Distance/Time to Commercial/Retail	No				0.0	2	0	0	- 3÷ -	90	1007	*
Reduces Travel Distance/Time to Reach Parks	No				0.0	2	0	0		24	-	
Increases Resident's Route Choice Options; Improves Evacuation Access	Yes	18	100 - 100 - 100		7.10	E-100000			rossing stru nd 22nd St. S		t the	
			Di	stance (mi	les)							
		DUs	W/O Bridge	W/ Bridge	Saved per Trip							
Reduces Travel Distance/Response Time For Fire First Responders	No		J. 7.		0.0	No	Reduction					
Response Time (minutes) at 30 MPH	1/4		0.0	0.0	0.0		Response	Time				
Reduces Travel Distance/Response Time For CCSO First Responders	No		0.0	0.0	0.0	Up to	a Reduction	on of				
Response Time (minutes) at 45 MPH			0.0	0.0	0.0	No	in Respon	se Time				
Reduces Travel Distance/Response Time For EMS First Responders	No				0.0	No	Reduction					
Response Time (minutes) at 35 MPH			0.0	0.0	0.0		Response	nine				
Reduces Travel Distance to Fire Station to Improves ISO Public Protection Classification Score	No		E									
Improves School Bus Route Operations	No	Existing reside St. SE (existing			al likley t	o contin	ue to use t	he existing	bus stop loc	cation a	t Frangipan	i and 10t

This bridge-shed worksheet quantifies the applicable benefits for **existing** residents with a new bridge

<sup>1</sup> VMT = Vehicle Miles Traveled

16<sup>th</sup> St. SE

			Build	-Out								
			Di	stance (mi	les)		VMT <sup>1</sup>	Gallons	Savings per	Days	Savings	VMT <sup>1</sup>
		DUs	W/O Bridge	W/ Bridge	Saved per Trip	Trips per Day	Causal ann	Saved per day @ 30 mpg	Home per Day	per Year	per Home per Year	Saved pe Home pe day
Reduces Travel Distance/Time to Reach Arterial Network	No		0.0	0.0	0.0	4	0	0	8.1	300	1 8 1	1 2
Reduces Travel Distance/Time to Reach Schools	Yes	5429 1900						of Bridge-Sl w/in the Br		180	0.0	0.0
Reduces Travel Distance/Time to Commercial/Retail	No		0.0	0.0	0.0	2	0	0	- 5	90	1924	1.2
Reduces Travel Distance/Time to Reach Parks	No		0.0	0.0	0.0	2	0	0		24	(4-1	
Increases Resident's Route Choice Options; Improves Evacuation Access	Yes	135	Resident	s current	Section Control	4.4			ssing struct , and 22nd S		the souther	n ends of
			Di	stance (mi	les)							
		DUs	W/O Bridge	W/ Bridge	Saved per Trip							
Reduces Travel Distance/Response Time For Fire 1st Responders	No				0,0	No	Reduction					
Response Time (minutes) at 30 MPH			0.0	0.0	0,0		Response	Time				
Reduces Travel Distance/Response Time For CCSO 1st Responders	No		0.0	0.0	0.0	No	Reduction	ı of				
Response Time (minutes) at 45 MPH			0.0	0.0	0.0		in Respon	se Time				
Reduces Travel Distance/Response Time For EMS 1st Responders	No		0.0	0.0	0.0	No	Reduction					
Response Time (minutes) at 35 MPH			0.0	0.0	0.0		Response	Time				
Reduces Travel Distance to Fire Station to Improves ISO Public Protection Classification Score	No		0.0	0.0								
Improves School Bus Route Operations	Yes	Bridge will pro	ovide direc	t access t	to two new	school	s (HS & ES)	to be built	in the futur	е.		

This bridge-shed worksheet quantifies the applicable benefits for all **future** residents with a new bridge

ES Capacity = 919 HS Capacity = 1931 0.35 Students/HH & 1.5 Students/DU

<sup>1</sup> VMT = Vehicle Miles Traveled

- Increase in route choice options for public agencies, and 18 current residences (135 at buildout)
- Shorter trip lengths for some residents
- Shorter trip lengths for some CCSO responses



- Access to future school sites south of bridge
- Potential reduction in travel distance to school(s) for 1,900 homes outside of bridge-shed at build-out



The next set of slides will provide an overview of the analysis of Bridge #10 on Wilson Blvd. S., located approximately 1 mile south of Golden Gate Blvd.



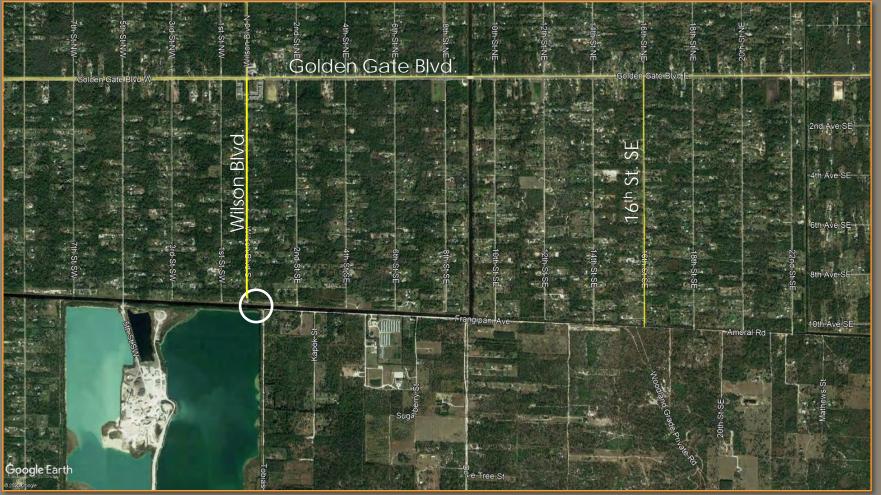
Wilson Blvd. South

Bridge #1 is located on Wilson Blvd. S., south of Golden Gate Blvd.

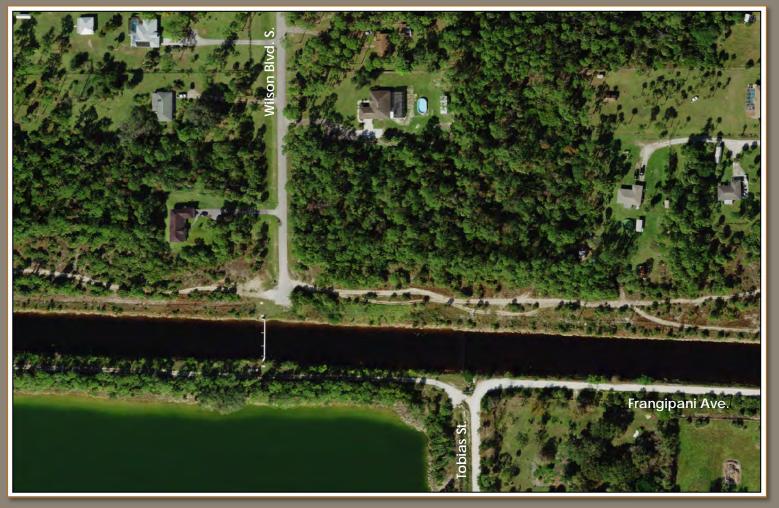




16<sup>th</sup> St. SE



Wilson Blvd. South



Wilson Blvd. South





The Bridge #10 Project Includes the Following Improvements:

- Realigning Wilson Blvd. S. to intersect with Tobias St. & Frangipani Ave.
- Resurfacing Wilson Blvd S. from Golden
   Gate Blvd. Blvd. to Tobias St. (+/- 1.2 miles)
- Adding paved shoulders
- Adding a Sidewalk along one side of roadway



#### Design Considerations Include:

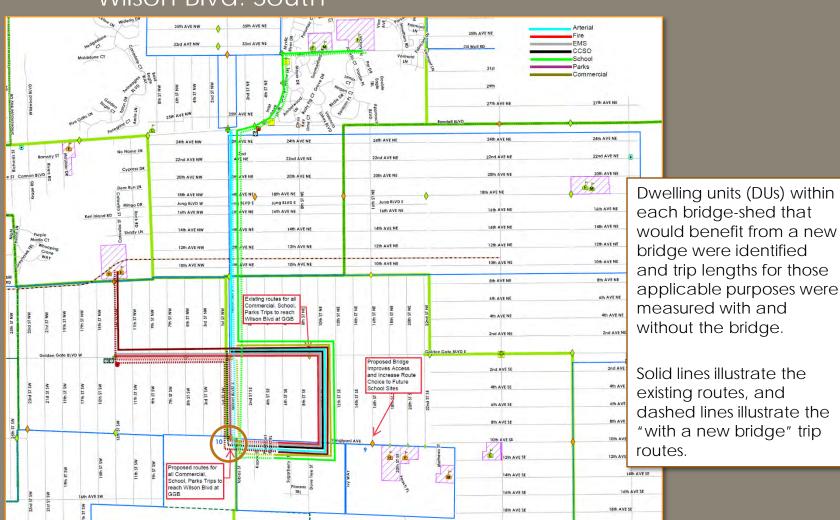
 Intersection improvements (e.g., turn lanes modifications, etc.) at the intersection of Golden Gate Blvd. and Wilson Blvd.



Wilson Blvd. South The number of BRIDGE-SHEDS #9 & #10 existing homes Existing Homes & Build-Out Parcels and the total Golden Gate Blvd. number of parcels that would benefit SE from a new St. bridge were 6th quantified. Residents in this area of the bridge-shed 0 enjoy additional Everglades Blvd route choice options with the new bridge, but and reduction in trip length 2/26/2020 2:14:08 PM High School Zones BridgeShedAddressPoints Future\_Middle\_School\_Locations 🔭 Bridge-Shed 9 🖁 Building Middle School Zones Future\_High\_School\_Locations Mobile/Modular Building Bridge-Shed 10 Elementary Zones Future Elementary Schools Bridge Sheds ExistingSchoolSelection SignalizedIntersectionsPointsCopy Study Area Parcels Full Existing University of South Florida, County of Collier, Esri, HERE, Garmin, INCREMENT P, NGA, USGS |



Wilson Blvd. South



**Stantec** 

The trip length and housing unit data was put into a worksheet to quantify the benefits realized with a new

bridge.

			20	19									NOTES
			Di	stance (mi	les)	Trips	VMT <sup>1</sup>	Gallons	Gallons	Days	Gallons	VIMT 1	
		DUs	W/O Bridge	W/ Bridge	Saved per Trip	per Day	Saved per day	Saved per day @ 30 mpg	Saved per Home per Day	per Year	Saved per Home per Year	Saved per Home per day	
Reduces Travel Distance/Time to Reach Arterial Network	Yes	40	6.3	5.1	1.2	4	189	6	0.16	300	47.2	4.7	,
Reduces Travel Distance/Time to Reach Schools (H)	Yes	40 4	9.1	7.9	1.2	4	19	1	0.16	180	28.8	4.8	
Reduces Travel Distance/Time to Commercial/Retail	Yes	40	3.1	1.9	1.2	2	95	3	0.08	90	7.1	2.4	
Reduces Travel Distance/Time to Reach Parks	Yes	40	5.9	4.7	1.2	2	95	3	0.08	24	1.9	2.4	
Increases Resident's Route Choice Options; Improves Evacuation Access	Yes	40	Reside 10th S		ntly use a	private	" canal cri	ossing struc	tures at the	souther	n end of		
			Di	stance (mi	les)								
		DUs	W/O Bridge	W/ Bridge	Saved per Trip								
Reduces Travel Distance/Response Time For Fire First Responders	Yes	40	4.8	3.6	1.2	25%	Reduction						
Response Time (minutes) at 30 MPH		7.53	9.5	7.2	2.4	927	Response	Time					
Reduces Travel Distance/Response Time For CCSO First Responders	Yes	40	3.1	1.9	1.2	Up to	a Reducti	on of					
Response Time (minutes) at 45 MPH			4.1	2.5	1.6	39%	in Respon	ise Time					
Reduces Travel Distance/Response Time For EMS First Responders	Yes	40	4.7	3.5	1.2	25%	Reduction						
Response Time (minutes) at 35 MPH			8.1	6.1	2.0	- 47	Response	lime					
Reduces Travel Distance to Fire Station to Improves ISO Public Protection Classification Score	Yes	15	6.3	5.0	New brid	ge redu	ces the dri	ve distance	to within 5 r	niles of	the nearest	fire station	
Improves School Bus Route Operations	Yes	May improve reduce fuel co						d future sch	ool(s); may	improve	bus utilizat	tion,	



Wilson Blvd. South

			20	19								
			Di	stance (mi	les)	Trips	VMT <sup>1</sup>	Gallons	Gallons	Days	Gallons	VMT <sup>1</sup>
		DUs	W/O Bridge	W/ Bridge	Saved per Trip	per Day	Saved per day	Saved per day @ 30 mpg	Saved per Home per Day	per Year	Saved per Home per Year	Saved pe Home pe day
Reduces Travel Distance/Time to Reach Arterial Network	Yes	40	6.3	5.1	1.2	4	189	6	0.16	300	47.2	4.7
Reduces Travel Distance/Time to Reach Schools (H)	Yes	40 4	9.1	7.9	1.2	4	19	1	0.16	180	28.8	4.8
Reduces Travel Distance/Time to Commercial/Retail	Yes	40	3.1	1.9	1.2	2	95	3	0.08	90	7.1	2.4
Reduces Travel Distance/Time to Reach Parks	Yes	40	5.9	4.7	1.2	2	95	3	0.08	24	1.9	2.4
Increases Resident's Route Choice Options; Improves Evacuation Access	Yes	40	Reside		ntly use a	"private	e" canal cre	ossing struc	tures at the	souther	n end of	
			Di	stance (mi	les)							
		DUs	W/O Bridge	W/ Bridge	Saved per Trip							
Reduces Travel Distance/Response Time For Fire First Responders	Yes	40	4.8	3.6	1.2	25%	Reduction					
Response Time (minutes) at 30 MPH			9.5	7.2	2.4	1	Response	lime				
Reduces Travel Distance/Response Time For CCSO First Responders	Yes	40	3.1	1.9	1.2	Up to	a Reducti	on of				
Response Time (minutes) at 45 MPH			4.1	2.5	1.6	39%	in Respon	se Time				
Reduces Travel Distance/Response Time For EMS First Responders	Yes	40	4.7	3.5	1.2	25%	Reduction					
Response Time (minutes) at 35 MPH			8.1	6.1	2.0		Response	Time				
Reduces Travel Distance to Fire Station to Improves ISO Public Protection Classification Score	Yes	15	6.3	5.0	New brid	ge redu	ces the dri	ve distance	to within 5 r	niles of	the nearest	fire statio
Improves School Bus Route Operations	Yes	May improve reduce fuel co						l future sch	ool(s); may	improve	bus utiliza	tion,

This bridge-shed worksheet quantifies the applicable benefits for **existing** residents with a new bridge

Existing residents use 10th St. SE; bridge reduces average travel distance by +/- 1.2 miles

Only residents with High School students; distances measured to Palmetto Ridge HS

<sup>1</sup> VMT = Vehicle Miles Traveled

This portion of the bridge-shed worksheet quantifies the potential benefits to residents

			20	19									NOTES
1			Di	stance (m	iles)		VMT <sup>1</sup>	Gallons	Gallons	Days	Gallons	VMT <sup>1</sup>	
		DUs	W/O Bridge	W/ Bridge	Saved per Trip	Trips per Day		Saved per day @ 30 mpg	The state of the s	per Year	production of the same of	Saved per Home per day	
Reduces Travel Distance/Time to Reach Arterial Network	Yes	40	6.3	5.1	1.2	4	189	6	0.16	300	47.2	4.7	Existing residents use 10th St. SE; bridge reduces average travel distance by +/- 1.2 miles
Reduces Travel Distance/Time to Reach	Yes	40 4	9.1	7.9	1.2	4	19	1	0.16	180	28.8	4.8	Only residents with High School students; distances measured to Palmetto Ridge HS
Reduces Travel Distance/Time to Commercial/Retail	Yes	40	3.1	1.9	1.2	2	95	3	0.08	90	7.1	2.4	
Reduces Travel Distance/Time to Reach Parks	Yes	40	5.9	4.7	1.2	2	95	3	0.08	24	1.9	2.4	
Increases Resident's Route Choice Options; Improves Evacuation Access	Yes	40	Resider 10th St		itly use a '	'private'	' canal cro	ssing struct	ures at the	souther	n end of		

The number of homes or dwelling units (DUs) that would benefit for a particular trip purpose The trip length without and with the new bridge and the savings

Number of trips per day (per DU) times trip length equals Vehicle Miles of Travel (VMT) The number of gallons of fuel saved with a new bridge



This portion of the bridge-shed worksheet quantifies the potential benefits to public agencies

The applicable First Responder trip purpose and the number of homes to benefit from a faster response time

The trip length without and with the new bridge and the savings

Potential average reduction in response time for the agency to reach a home with the new bridge in place

The potential benefit to the Fire ISO rating

			Di	stance (mi	les)		
		DUs	W/O Bridge	W/ Bridge	Saved per Trip		
Reduces Travel Distance/Response Time For Fire First Responders	Yes	40	4.8	3.6	1.2	Reduction in	
Response Time (minutes) at 30 MPH	200		9.5	7.2	2.4	Response Time	
Reduces Travel Distance/Response Time For CCSO First Responders	Yes	40	3.1	1.9	1.2	Up to a Reduction of	
Response Time (minutes) at 45 MPH			4.1	2.5	1.6	39% in Response Time	
Reduces Travel Distance/Response Time For EMS First Responders	Yes	40	4.7	3.5	1.2	Reduction in Response Time	
Response Time (minutes) at 35 MPH	130		8.1	6.1	2.0	Response time	
Reduces Travel Distance to Fire Station to Improves ISO Public Protection Classification Score	Yes	15	6.3	5.0	New brid	ge reduces the drive distance to within 5 miles of the nearest	fire stat
Improves School Bus Route Operations	Yes	May improve				tes to existing and future school(s); may improve bus utiliza erating costs	tion.

1 VMT = Vehicle Miles Traveled



Wilson Blvd. South

			Build	-Out								
			Di	stance (mi	les)	Trips	VMT <sup>1</sup>	Gallons	Savings per	Davs	Savings	VMT <sup>1</sup>
		DUs	W/O Bridge	W/ Bridge	Saved per Trip	per Day	Saved per day	Saved per day @ 30 mpg	Home per Day	per Year	per Home per Year	Saved per Home per day
Reduces Travel Distance/Time to Reach Arterial Network	Yes	132	6.3	5.1	1.2	4	623	21	0.16	300	47.2	4.7
Reduces Travel Distance/Time to Reach Schools (H)	Yes	132 .13	9.1	7.9	1.2	4	62	2	0.16	180	28.8	4.8
Reduces Travel Distance/Time to Commercial/Retail	Yes	132	3.1	1.9	1.2	2	314	10	0.08	90	7.1	2.4
Reduces Travel Distance/Time to Reach Parks	Yes	132	5.9	4.7	1.2	2	314	10	0.08	24	1.9	2.4
Increases Resident's Route Choice Options; Improves Evacuation Access	Yes	132	Reside	nts currei	ntly use a '	private	" canal cro	ssing struc	tures at the s	outher	n end of 10	h St. SE
			Distance (miles)									
		DUs	W/O Bridge	W/ Bridge	Saved per Trip							
Reduces Travel Distance/Response Time For Fire First Responders	Yes	132	4.8	3.6	1.2	25%	Reduction					
Response Time (minutes) at 30 MPH			9.5	7.2	2.4		Response	Time				
Reduces Travel Distance/Response Time For CCSO First Responders	Yes	132	3.1	1.9	1.2	Up to	a Reducti	on of				
Response Time (minutes) at 45 MPH			4.1	2.5	1.6	39%	in Respon	se Time				
Reduces Travel Distance/Response Time For EMS First Responders	Yes	132	4.7	3.5	1.2	25%	Reduction					
Response Time (minutes) at 35 MPH			8.1	6.1	2.0		Response	lime				
Reduces Travel Distance to Fire Station to Improves ISO Public Protection Classification Score	Yes	61	6.3	5.0	New brid	ge redu	ices the dri	ve distance	to within 5 m	niles of	the nearest	fire statio
Improves School Bus Route Operations	Yes	May improve reduce fuel co		PERSONAL PROPERTY.			The state of the s	l future sch	ool(s); may i	mprove	bus utiliza	tion,

This bridge-shed worksheet quantifies the applicable benefits for all **future** residents with a new bridge

Existing residents use 10th St. SE; bridge reduces average travel distance by +/- 1.2 miles

<sup>1</sup> VMT = Vehicle Miles Traveled

- Improve access and increase in route choice options for public agencies, and 40 current residences (132 at buildout)
- Shorter trip lengths for all residents
- Shorter trip lengths for Fire and EMS response
- Shorter trip lengths for some CCSO response



- Reduction in travel distance to arterial network for 40 homes (132 at build-out)
- Reduction in travel distance to commercial area and parks for 40 homes (132 at build-out)
- Reduced travel distance to High School for 4 homes (13 at build-out)



- Residents could benefit from up to a 39% decrease in response time (up to 1.6 minutes) for CCSO vehicles.
- Route choice is improved Fire & EMS first responders.
  - 25% reduction in response time to area residences due to station locations.
  - 15 additional homes (61 at build-out) may meet ISO 3 Rating

#### 6 Next Steps

- ✓ Public Outreach to Other Affected Neighborhoods
- ✓ Presentation to the BCC tentatively for December 8, 2020
- ✓ Programming & Production to Complete the Bridges by 2027



#### 6 Questions?

- ✓ Send Written Comments to Lorraine Lantz, AICP:
  - Lorraine.Lantz@colliercountyfl.gov
  - Collier County Transportation Planning 2685 S. Horseshoe Drive, Suite 103 Naples, FL 34104
  - 239.252.5779



#### 6 Questions?

✓ Visit the Project Website described below and in the notice for this meeting to download project materials, back-up materials, meeting presentations, etc.

http://colliercountyfl.gov/planningstudies

