



Hillsborough
County Florida

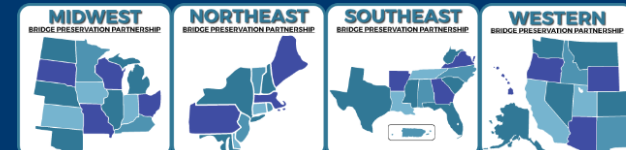
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Bridge Inventory Challenges & Successes

September 10, 2024

Presented by:
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Engineering & Operations Department

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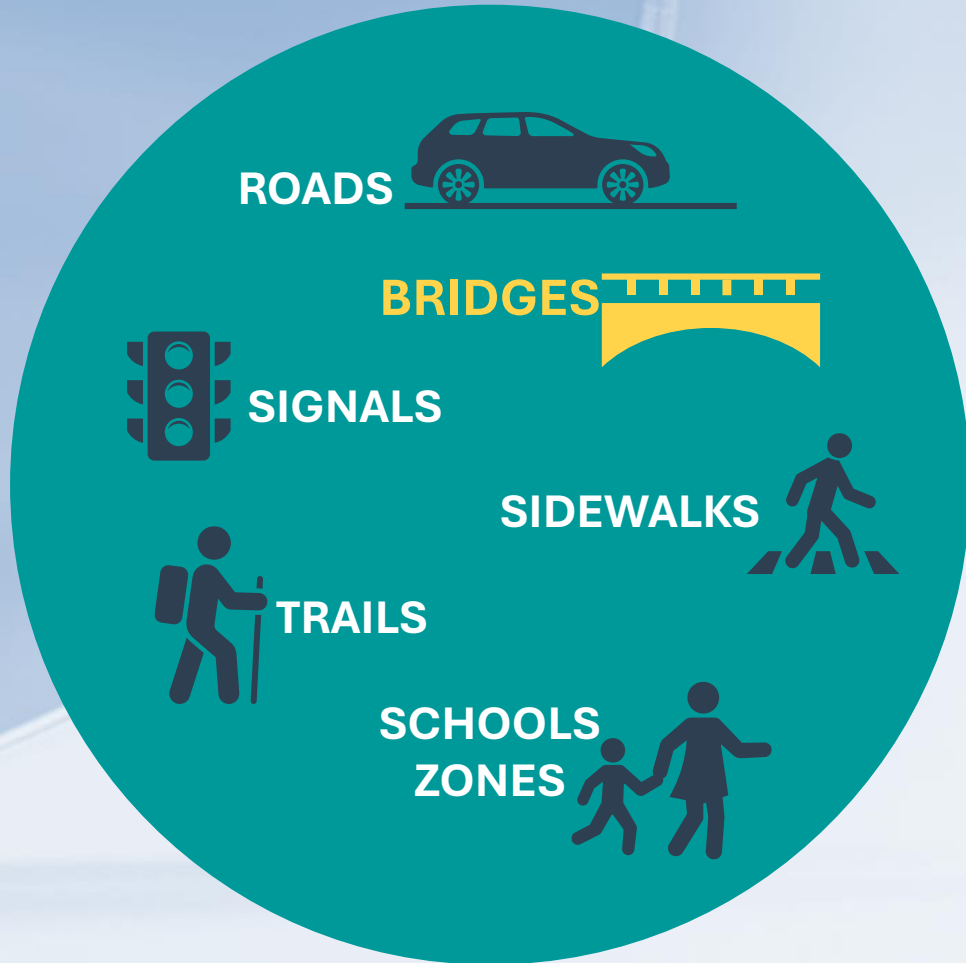


Hillsborough County, Florida

- 1,048 square miles
 - 84% Unincorporated
 - 3 municipalities, including Tampa
- Population of 1.5 million
 - 3rd most populous county in Florida
 - 26.7 million visited in 2023
- 3,463 centerline miles of road (Unincorporated)
- Port Tampa Bay is the largest tonnage port in Florida



Vision Statement



Manage the Hillsborough County's bridge inventory to reduce risk and improve public safety so that every member of the Community can connect with others and pursue a high quality of life.


Bridge Inventory Overview

- Largest local bridge inventory in Florida (291 bridges)
 - 270 vehicular Bridges
 - 21 pedestrian Bridges
- 25 no-detour bridges
- 5 posted bridges
- The median bridge age is 44;
the oldest bridge is 99 years old
 - >90% are concrete
 - 44% exceed their 50-year design life

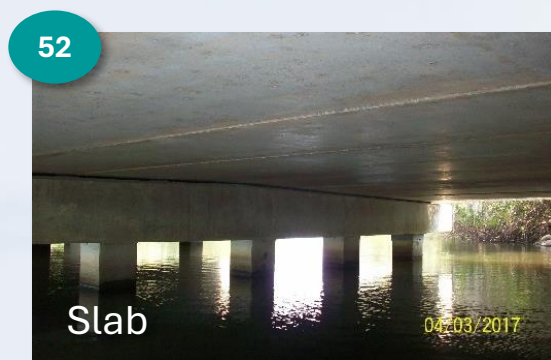
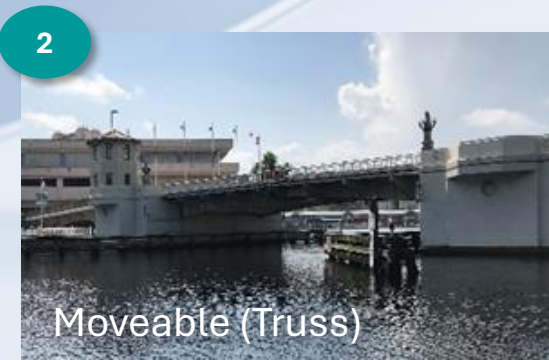
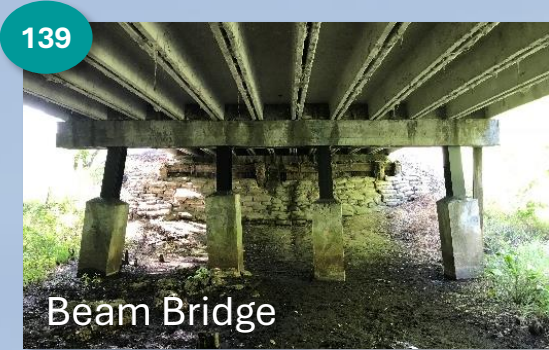
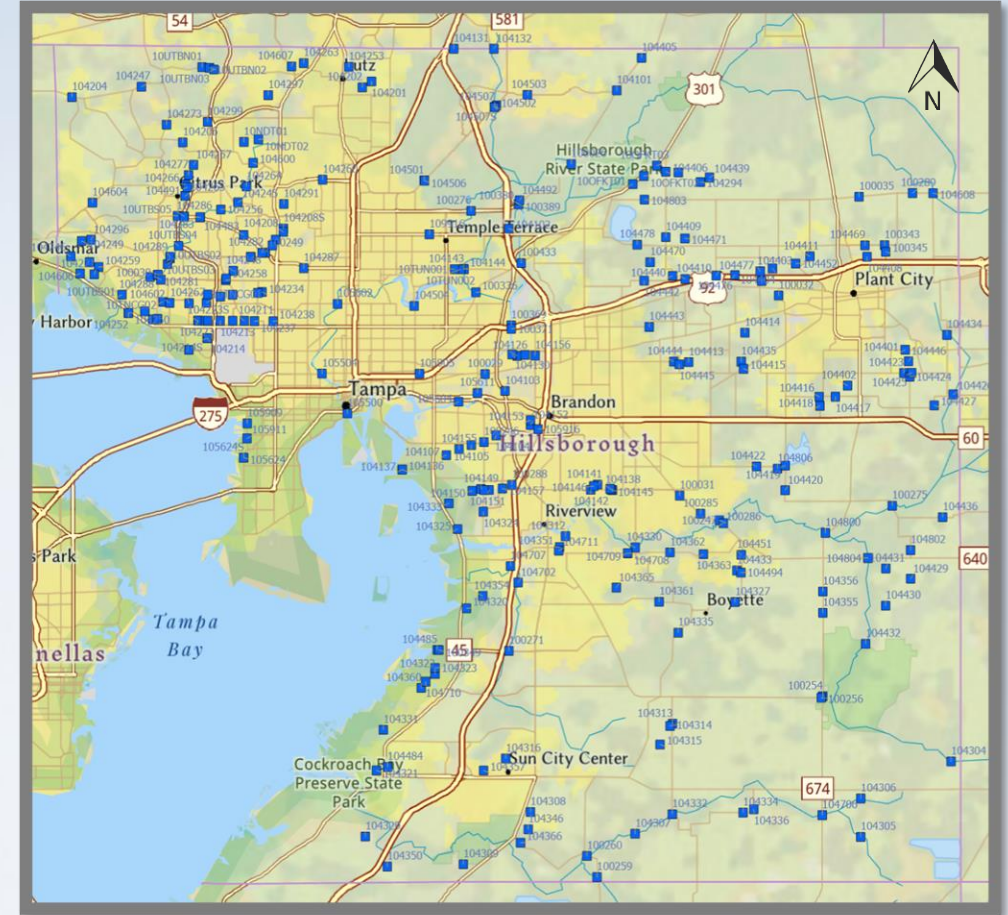


*Bridge #104333 – CR41A over
Raceway Canal is the oldest bridge in
the County*

Current Bridge Inventory

Bridge Type	Deck Area (SF)	NBI Qualified Bridges	NBI Non-Qualified Bridges	Total
Vehicular 	1,222,309	260	10	270
Pedestrian 	67,958	0	21	21
Total	1,290,268	260	31	291

Hillsborough County Owned & Maintained Bridge Locations



... also have 5 Truss bridges & 5 Arch bridges

Current Inventory Condition

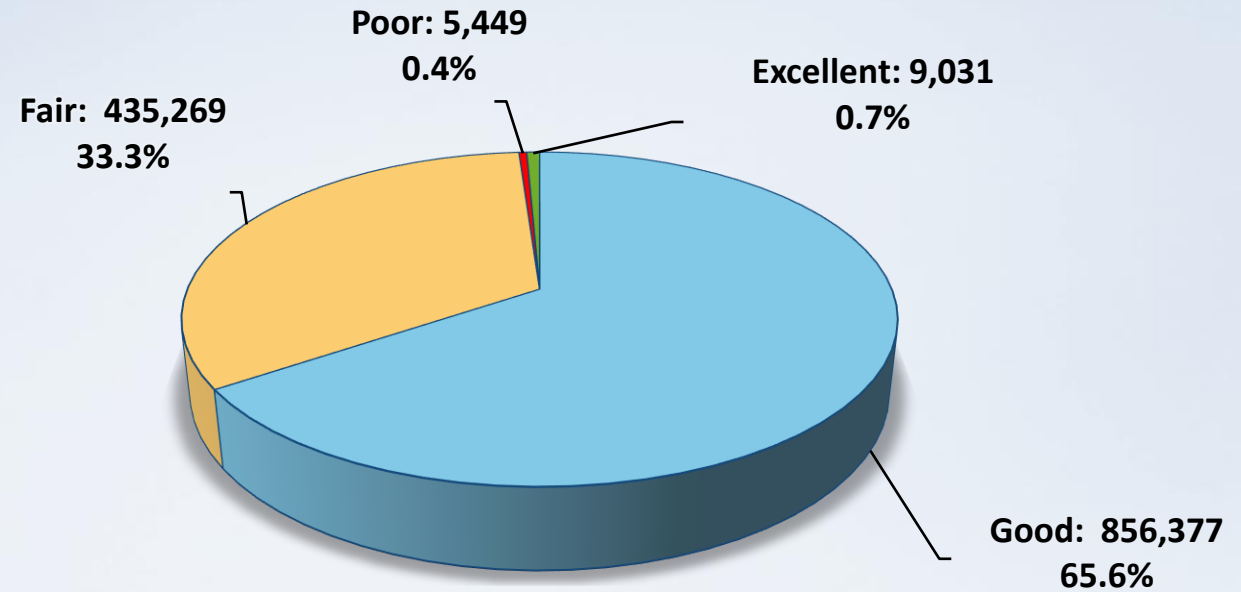
Current Condition*

NBI Rating	HC Description	Count	%	Median Age~
8 or 9	Excellent	6	2.0	3.5
7	Good	167	57.4	32.0
5 or 6	Fair	114	39.2	50.0
3 or 4	Poor	4^	1.4	54.0
0,1, or 2	Failed	0	0.0	--
Total		291	100.0	44

~ Median Age is based on the last rehabilitation date, if applicable; bridges with an unknown build date were excluded.

Note: Hillsborough County has adopted the Governmental Accounting Standards Board (GASB) "modified approach" for accounting.

Deck Area By Bridge Condition (SF)



Average NBI Network Rating = 6.54

Consequences of No Repair or Delayed Maintenance

Structural Deficiency – December 2015

Special underwater inspection determined existing steel H-Piles had experienced significant section loss. Early warning signs like loss of cathodic protections over piles should have been addressed at that time. The decision was made to immediately close.



8/7/20

Primary Reason for Failure

Pile section loss caused by severe corrosion



Bridge # 105604 - Maydell Drive over Palm River

03/09/2017

Structural Deficiency – January 2024

Bridge has been on replacement list since 2019 due to multiple deficiencies. Full rehabilitation cost was too expensive. To extend the life an emergency repair was performed to ensure continued service of the bridge.



Bent 10 cap deterioration

Primary Reason for Failure

Multiple deficiencies in the super- and substructures



Bridge # NTR044 – Upper Tampa Bay Trail over Rocky Creek

Consequences of No Repair or Delayed Maintenance

Approach Roadway Failure – May 2017

Left rear wheel of a truck fell through the pavement just south of the bridge. The bridge approach roadway had been under-mined due to corrosion holes in the steel sheet pile walls. These holes allowed the soil behind the walls to wash out and undermine the approach roadways.



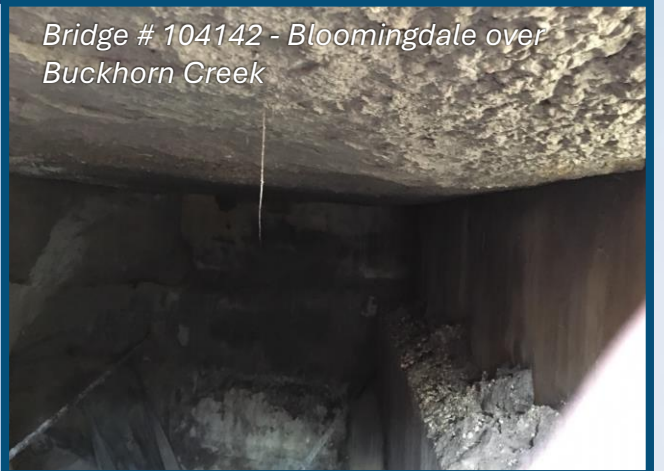
Bridge # 104317 - 2nd St over Ruskin Inlet

Primary Reason for Failure

**Corroded
Sheet Pile
Walls**

Sidewalk Failure – March 2020

A sidewalk failed due substantial backfill loss underneath the east approach slab. This was caused by scouring along the northeast wing walls over time. The top picture shows the void created under the sidewalk. The bottom picture shows the depth of the collapse. The collapse occurred as a pedestrian was crossing the bridge.



Bridge # 104142 - Bloomingdale over Buckhorn Creek



Primary Reason for Failure

**Lack of Scour
Mitigation and
Sediment
Removal**

Bridge Team Core Services



- **Manage**

- Investigations
- Repair & Rehabilitation Design
- Repair & Rehabilitation Construction
- Bridge Damage Assessment Activities (Emergency Management)

- **Plan**

- Regular maintenance activities
- Prioritization and scoping for replacement bridges
- Annual and 5-year Work Management Plans

- **Review** *(as it relates to bridges)*

- Review & approve Heavy Haul Permit applications
- ROW Permit application process

- **Coordinate**

- With State/Local Transportation & Permitting Agencies
- With County Inspection Teams to monitor the construction of developer-contributed bridges

- **Report**

- Bridge inventory & condition
- Work Plan status and financials



Example Repair & Preservation Treatments Performed

Spall Repair



Stephens Rd over Wildcat Creek #104329

Sheet Pile Repair /Stub Wall Installation



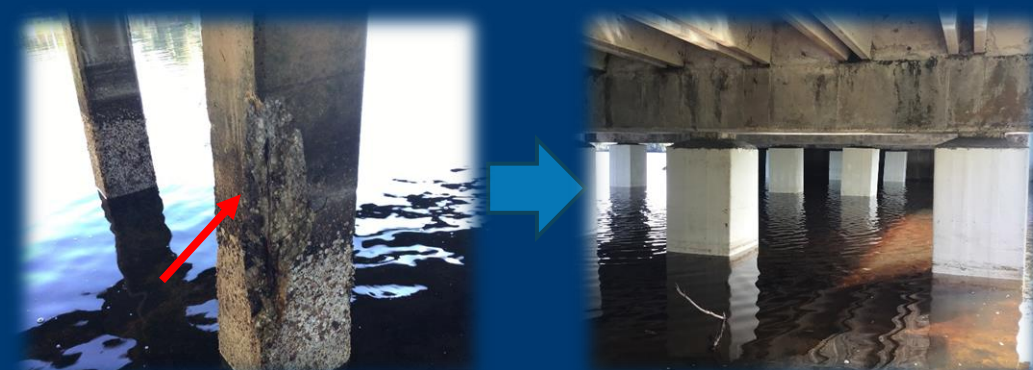
McMullen Loop over Rice Creek #104312

Slope Repair & Scour Mitigation



Lightfoot Rd over Little Manatee River #104309

Pile Jacket Installation



McMullen Loop over Rice Creek #104312

Example Repair & Preservation Treatments Performed

Approach Slab Installation



Sediment Removal

Balm Riverview Rd over Rice Creek # 104351



Boyette Rd over Rice Creek #104711



Maintenance Program Challenges



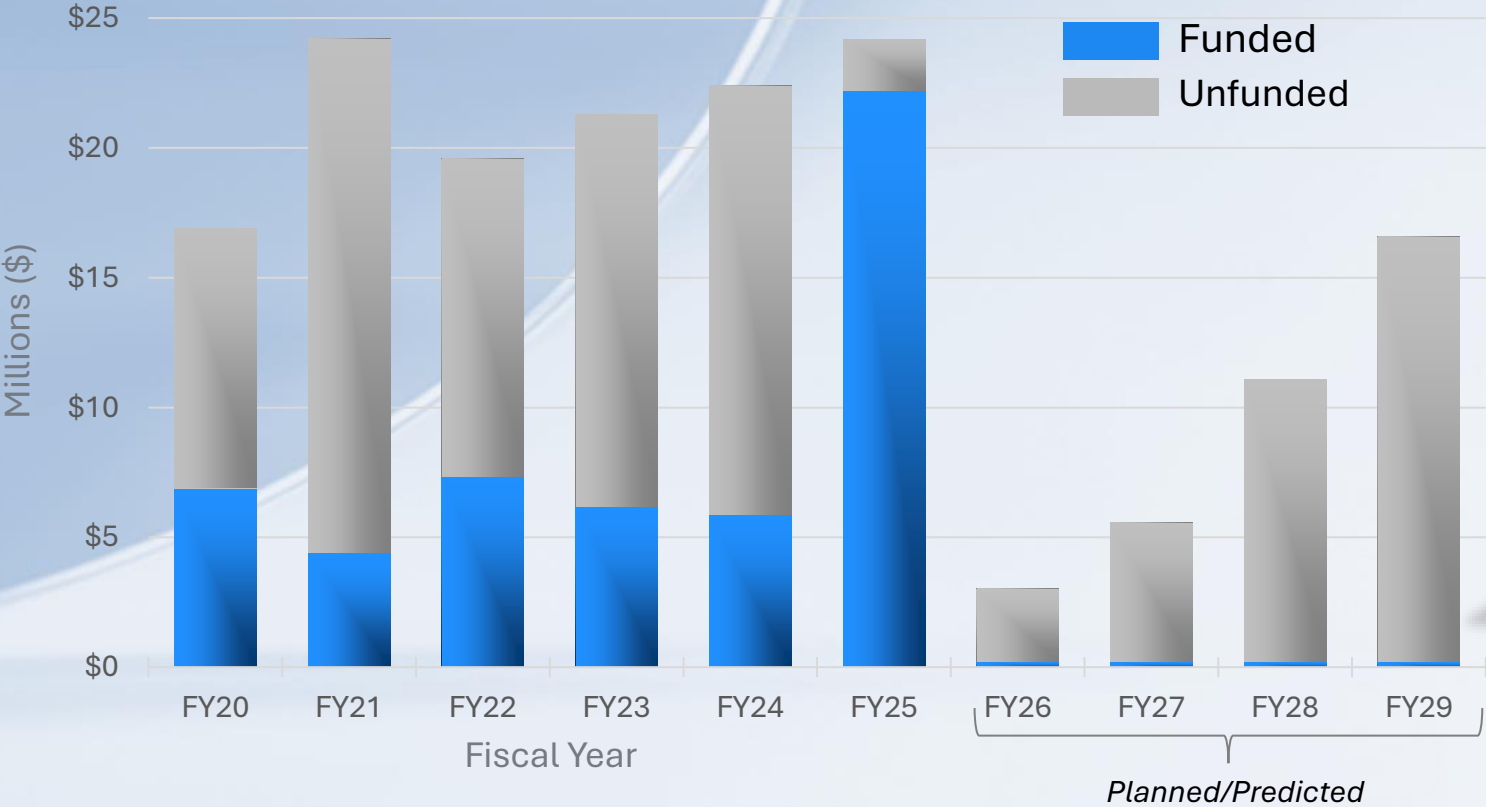
Challenge – Multiple Permitting Agencies



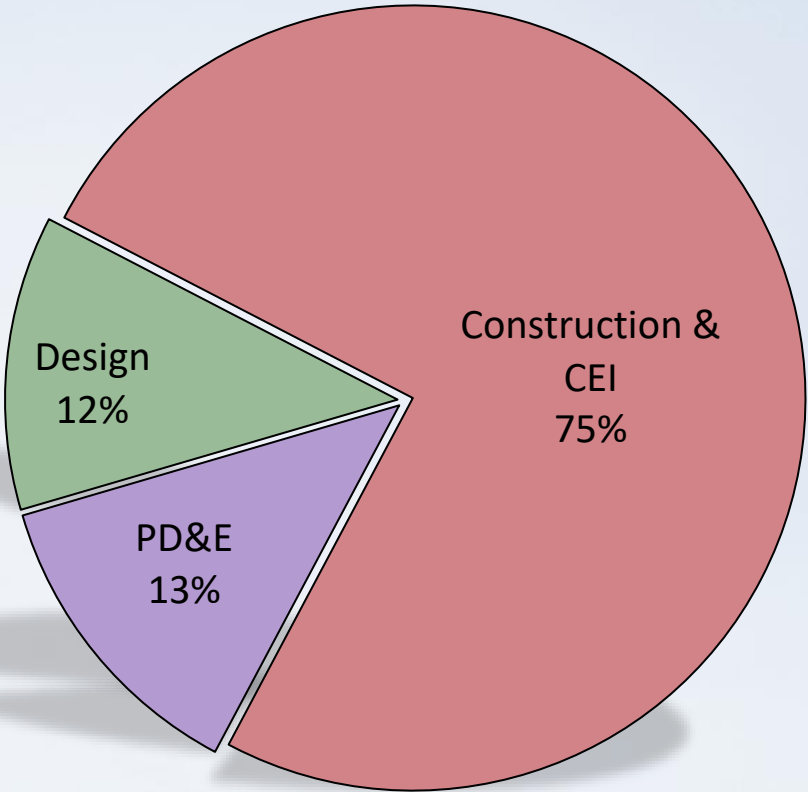
During Construction, CSX Transportation (Railroad) and Local Jurisdiction Right of Way Traffic Permits

Challenge – Budget Uncertainty

Historical & Future M&R Budget



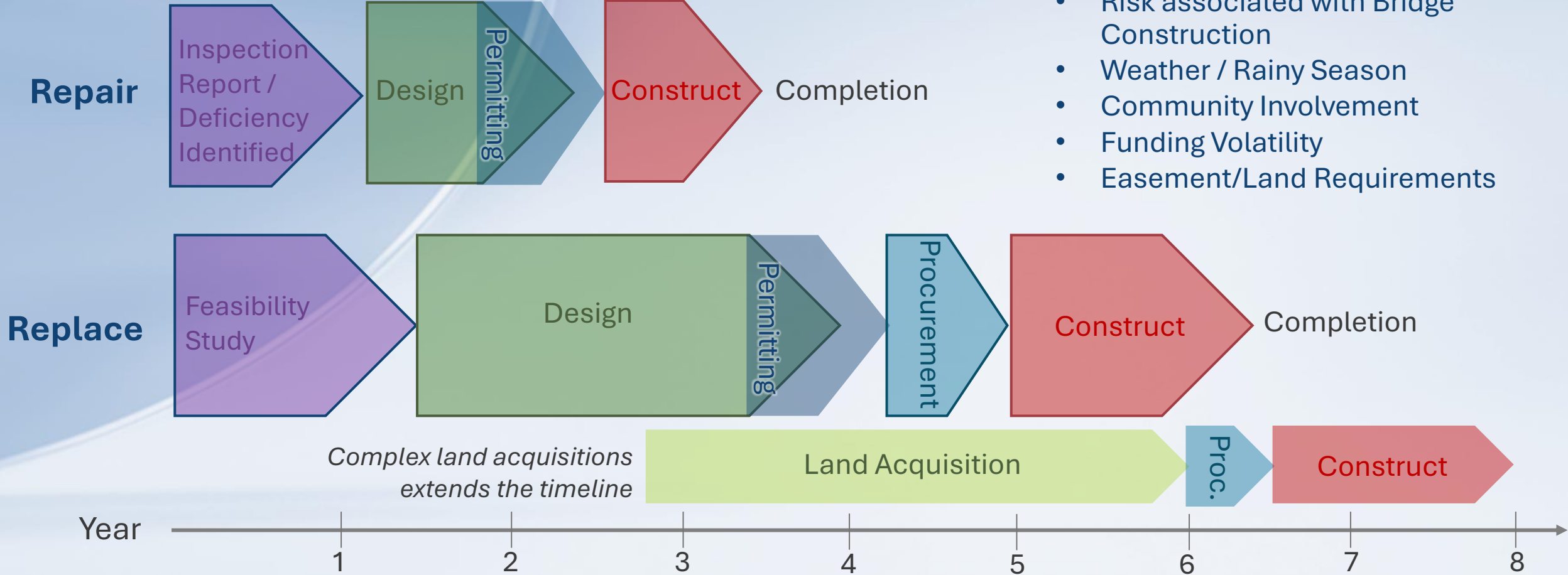
Typical Budget Allocation



Typical Project Timelines

Factors That Can Affect Timelines:

- Permitting
- Requires Specialty Contractor
- Risk associated with Bridge Construction
- Weather / Rainy Season
- Community Involvement
- Funding Volatility
- Easement/Land Requirements



Challenge – Environmental Factors

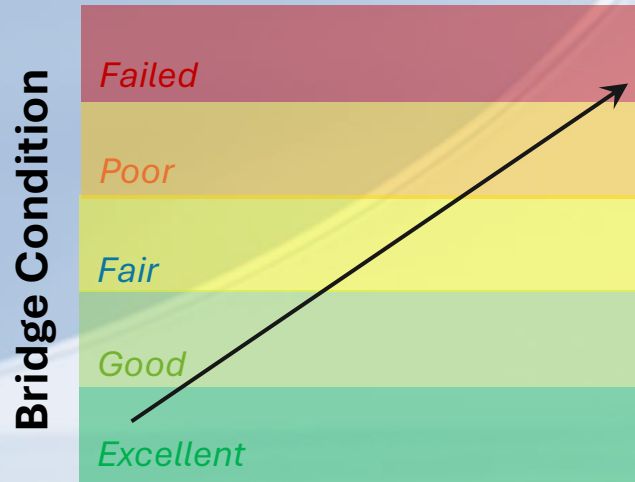


- Tampa Bay has been affected by 7 tropical systems in the last 5 years
- 39 Bridges are tidally influenced
- Hurricane season (June 1st to Nov 30th) can cause construction delays, cost escalations

Challenge - Repair vs Replace

As the bridge ages, its overall condition becomes more difficult and costly to maintain

Cost to Maintain Safety
(More Expensive →)



Age/Service Life Ratio
(Older →)

ADT and Truck Traffic %



Functionally Obsolete/Safety



Considerations:

- Overall Condition
- Frequency of Repair Costs vs Replacement Cost
- Age of Structure
- Functional Obsolescence
- Future Development
- Structural Deficiency/ Posting
- Problematic Bridge Elements
 - *Small Channel Beams*
 - *Steel H-Piles*
 - *Metal Pipe Culverts*
 - *Wood/Timber Piles*

Challenge – Right of Way & Easements

Lengthy negotiations and multiple departments' involvement can delay needed repairs.



Bridge # 104211 – Anderson Rd over Henry St Canal

Failing slope on the south abutment. This is undermining the cap and creating severe cracking. This in turn undermines the road.

Challenges - Cost Escalations

- Material price fluctuations
- Supply chain issues
- No as built available
- Unknown foundation
- Labor shortages and costs



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Maintenance Program Successes

Success - Teamwork



Jay Bhatt, PE

Team Lead,
Program Manager



Karl King

Bridge Inspection



Cliff Griffiths

Bridge Inspection



Rodney Phillips

Reporting, Analysis
& Program Support



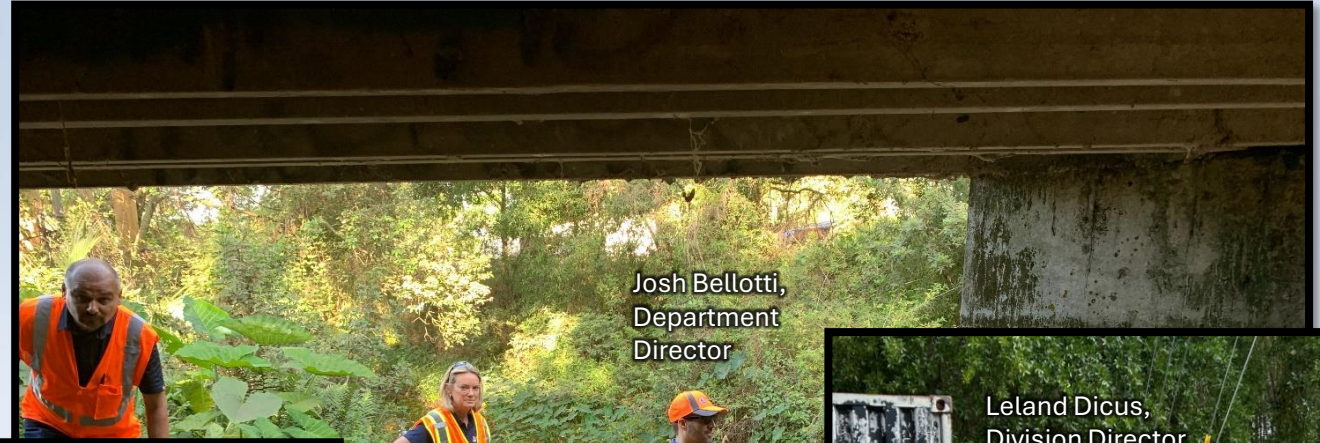
Leah Peak

Work Plans,
Analysis & Program
Support



Success – Management Support

Management actively supports Bridge staff and markets Program needs to Elected Officials.



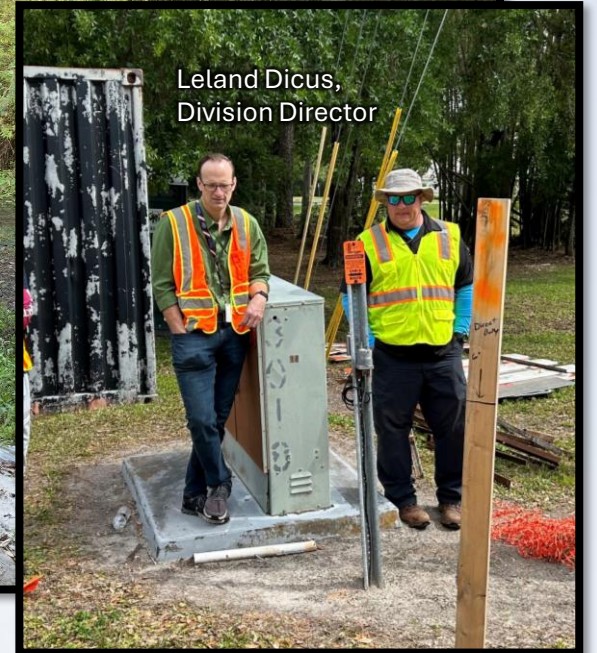
Josh Bellotti,
Department
Director



Dana Mackey,
Section Manager



Kim Byer,
Assistant County
Administrator



Leland Dicus,
Division Director

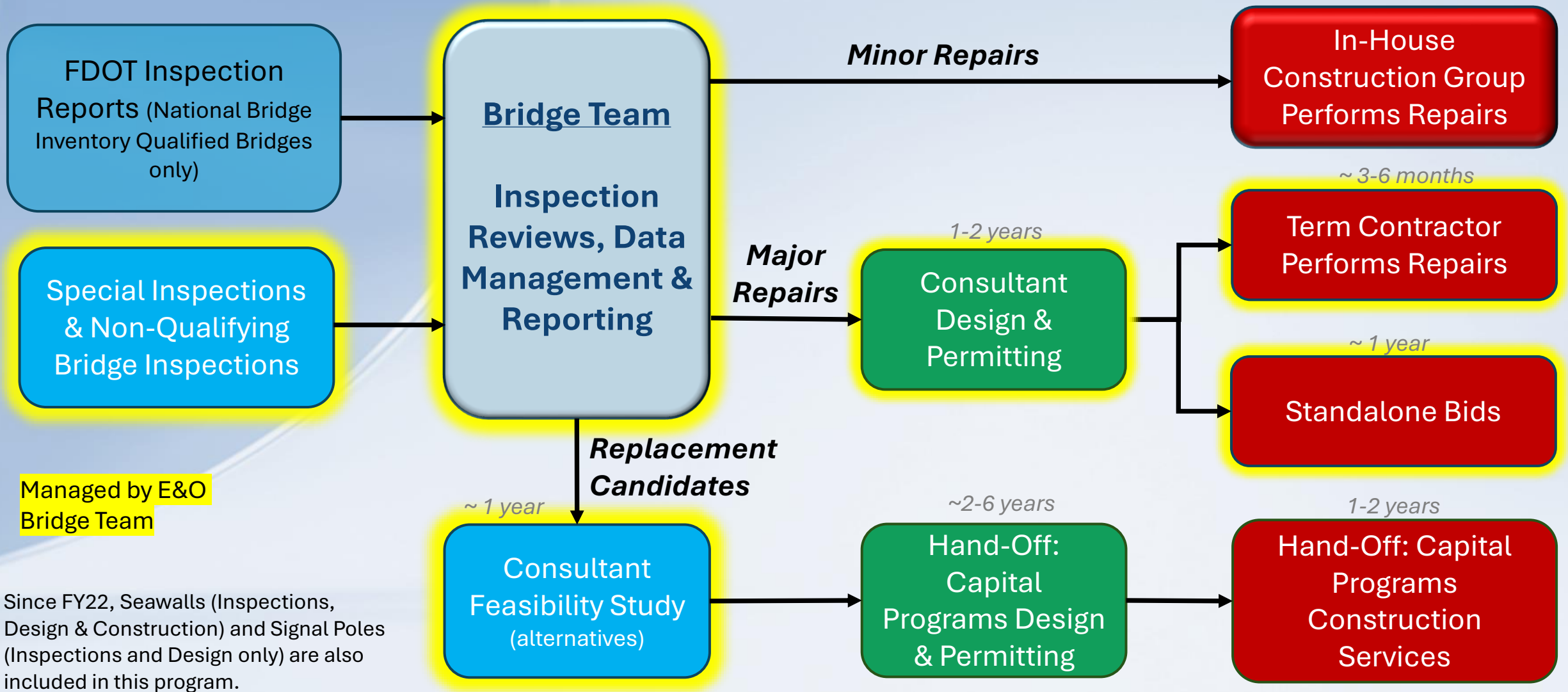
Success -Mission Statement

The Mission of the Bridge Program is to achieve the goals set forth in the County's Bridge Condition Policy. The Program performs inspections, executes repairs and plans for bridge replacements to rectify deficiencies within the available budget.

➤ Engineering and Operations Department Bridge Condition Policy:

- 50% of County bridge inventory in Good or better condition (NBI Rating >6)
- Not more than 10% of County bridge inventory in Poor or worse condition (NBI Rating <=4)
- Not more than 2% of County bridge inventory in Failed condition (NBI Rating <=2)

Success - Defined Workflow



Success – One-Stop Shop

- Manage Design Consultants
- Directly manage Contractors & CEI
- On-staff Certified Bridge Inspectors augment State Inspections and can monitor bridge conditions frequently

Benefits

- Constructability issues can be identified proactively.
- Technical issues can be resolved efficiently

Success – Work Planning

Award Description	Award Name	Award	Oracle Balance (8/1/24)	Expected Carryforward	FY25 Additional	Available for FY25	FY25 Utilized	FY25 Remaining	FY26 Remaining	FY27 Utilized	FY27 Remaining
6 FUEL	TRANSF TRUST FID PROJECTS - 6 CNST FUEL TR-00018082	01030100	2,315,815	3,915		3,915		3,915			3,915
CNST FUEL	CONSTITUTIONAL FUEL TAX FUND-10011989	01031700	182,467	12,467	200,000	122,467	307,000	305,467	295,750	200,000	9,717
CW AD VAL	CW AD VALOREM TAX TRANSF FID-10013995	01032000	3,842,304	3,842,304	7,000,000	10,432,304	10,432,304	411,304	250,000	161,304	
UNINC AD VAL	UNINC AD VALOREM TAX TRANSF FID-10013992	01032100	242,368	23,368	5,000,000	5,023,368	1,270,000	3,753,368	3,750,000	53,368	3,368
CFT IV	CFT Project Fund Phase IV November 2021 - November 2024	01050700	-	-	10,000,000	10,000,000	7,116,000	2,884,000	2,877,570	6,430	6,430
UNP	Unfunded	UNP	-	-	-	-	-	395,000	-	-	4,411,000
Total			4,461,053	3,882,053	22,200,000	26,082,053	18,934,000	7,158,053	7,683,000	234,733	4,661,000

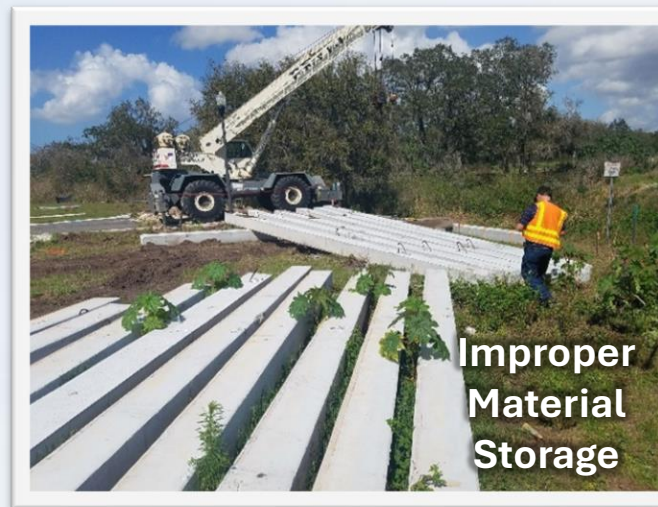
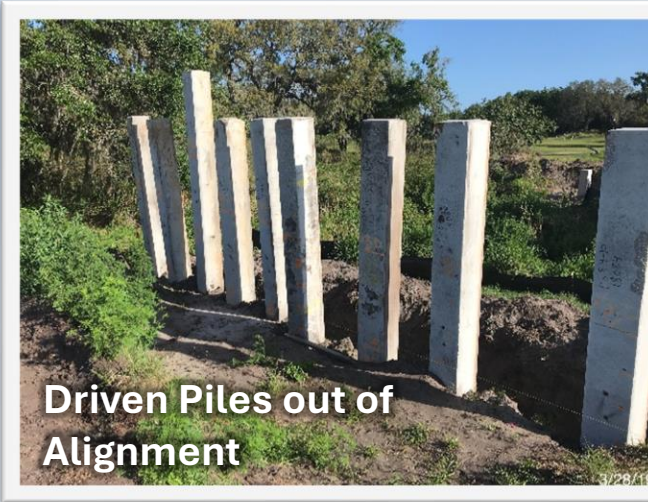
	FY24	FY25	FY26	FY27	FY28	FY29
Adopted CP Funding	\$27,200,000	\$290,000	\$290,000	\$290,000	\$290,000	\$290,000
Additional Funding News	\$0	\$827,000	\$4,461,000	\$5,211,000	\$5,211,000	\$5,200,000
Recommended CP Funding	\$0	\$827,000	\$4,661,000	\$5,411,000	\$5,411,000	\$5,700,000
Oracle Available Balance (6/6/77 - 8/1/24)	4,560,000					
Fiscal Closeouts	3,881,000	7,157,000	1,000	1,000	1,000	1,000
Expected Unencumbered Carryforward	26,081,000	7,684,000	4,662,000	5,414,000	5,701,000	5,701,000
Total Funding	26,081,000	7,684,000	4,662,000	5,414,000	5,701,000	5,701,000
Total Project Cost	\$18,924,000	\$7,683,000	\$4,661,000	\$5,411,000	\$5,700,000	\$5,700,000
Maint & Repair	679,000	7,728,000	6,358,000	3,615,000	4,538,400	4,825,000
Scour Repair	-	2,380,000	325,000	341,000	375,000	375,000
Bank Rehab	-	-	150,000	150,000	150,000	150,000
CE	-	600,000	350,000	350,000	350,000	350,000
Federal Replacement	-	6,041,000	-	-	-	-
Special Project	-	2,175,000	-	-	-	-
Available Funding Balance at Year End	3,880,000	7,157,000	\$1,000	\$1,000	\$1,000	\$1,000

Note: only Projects that have some type of ETC expected during the current FY or beyond are listed here

Project #	Project Name	Bridge ID	Project Type	Funded %	Known or Expected	Contract	FY25-30 Assigned Funding 1	FY25-30 Assigned Funding 2	Comm District	FY25-FY30 PDB&E Estimate to Complete (ETC)	FY25-FY30 Design ETC	FY25-FY30 Land ETC	FY25-FY30 Construction ETC	Design Complete Month/Year	POB&E Fiscal Year	Design Fiscal Year	Land Fiscal Year	Construction Fiscal Year	24	25	26	27	28	29
09877723	Twin Branch Access over Double Creek	104246	Maint & Repair	100%	Known	WORKS - Prohibit	UNINC AD VAL			\$ 219,000				24					219,000					
09877780	Anderdon Rd over Henry St Canal	104211	Maint & Repair	100%	Known	WORKS - Prohibit	CNST FUEL	6 FUEL		\$ 578,000				24					490,000	128,000				
09877801	Columbia River over Hillsborough River Fender Replacem	105558	Fender Replacement	100%	Known	Work	CW AD VAL			\$ 1,500,000				25						1,500,000				
09877801	Bayshore Sea Wall Repair - W Headquarters to Platt F22.83	N/A	Special Project	100%	Known	WORKS - New	CW AD VAL			\$ 2,175,000				25						2,175,000				
09877713	Henry Rd over Henry Canal	100336	Maint & Repair	100%	Known	WORKS - New	CFT IV			\$ 864,000				25						864,000				
09877702	N Manhattan Ave over Channel 1	104235	Maint & Repair	100%	Known	WORKS - New	CFT IV			\$ 816,000				25						816,000				
09877117	Miltoosh Rd over Hildebrands Branch	104406	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 193,000				23						193,000				
09877803	Platt Street Bridge over Hillsborough River Sidewalk Repair	105550	Maint & Repair	100%	Known	Work	CW AD VAL			\$ 300,000				24						300,000				
09877216	Oldman Rd over Draining Canal Construction	104233	Maint & Repair	100%	Known	WORKS - New	CFT IV			\$ 424,000				23						424,000				
09877218	St Smith Rd over Hildebrands Branch Construction	104407	Maint & Repair	100%	Known	WORKS - New	CFT IV			\$ 497,000				23						497,000				
09877312	Hanna Rd over Sherry's Brook Construction	104201	Maint & Repair	100%	Known	WORKS - New	CFT IV			\$ 444,000				23						444,000				
09877319	Duward Rd over over Turkey Creek Construction	104422	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 292,000				23						292,000				
09877313	Hudson Ln Over Seewahler Crk Construction	104209	Maint & Repair	100%	Known	WORKS - New	CFT IV			\$ 466,000				23						466,000				
09877314	W Village Dr over Brushy Creek Construction	104245	Maint & Repair	100%	Known	WORKS - New	CFT IV			\$ 199,000				23						199,000				
09877315	Carlton Lake Rd over Carlton Branch Construction	104313	Maint & Repair	100%	Known	WORKS - New	CFT IV			\$ 256,000				23						256,000				
09877227	Morris Bridge over Hillsborough River - Land & Canal	100026	Scour Repair	100%	Known	Work	CFT IV			\$ 815,000				24	24					815,000				
09877709	Platzer Ave over Hillsborough River - Land & Canal	100276	Scour Repair	100%	Known	Work	CFT IV			\$ 1,545,000				24	24					1,545,000				
09877602	Platt Street Bridge over Hillsborough River Fender Replac	105550	Fender Replacement	100%	Known	Work	CW AD VAL			\$ 4,541,000				23						4,541,000				
09877804	Carraway Splice Rd over Twin Creek Construction	104816	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 25,000				25						25,000				
09877805	Columbia Dr Over Hillsborough River Bridge Painting	105556	Maint & Repair	100%	Known	Work	CW AD VAL			\$ 50,000				25						50,000				
09877806	Platt St Over Hillsborough River Bridge Painting	105550	Maint & Repair	100%	Known	Work	CW AD VAL			\$ 1,000,000				25						1,000,000				
09877322	Gunn Hwy (EB/WB) over Rocky Creek Construction	104285 & 1042	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 1,101,000				23						1,101,000				
09877323	Squakamish Rd over Howells Creek Construction	104446	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 182,000				24						182,000				
09877325	Sweet Loop Rd Over Carlton Branch Construction	104314	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 182,000				24						182,000				
09877326	Conding Loop Over Scotts Creek Construction	104315	Maint & Repair	100%	Known	WORKS - New	CFT IV			\$ 180,000				24						180,000				
09877327	L 78th St Over Anhe Creek Construction	104318	Maint & Repair	100%	Known	WORKS - New	CFT IV			\$ 270,000				24						270,000				
09877328	Jan Johnson Rd Over Howells Creek Construction	104401	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 250,000				24						250,000				
09877329	Pegun Rd Over Grassy Creek Branch - Construction	104802	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 330,000				24						330,000				
09877330	Miltoosh Rd Over Campbell Creek - Construction	104409	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 215,000				24						215,000				
09877331	Dorman Rd Over Little Fishhawk Creek - Construction	104413	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 660,000				24						660,000				
09877332	E Wheeler Rd Over Sydney Creek - Construction	104444	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 650,000				24						650,000				
09877721	Memorial over Seewahler Creek	100248	Scour Repair	100%	Known	WORKS - New	CFT IV			\$ 438,000				24						438,000				
09877807	W Waters Ave over Rocky Creek	104248	Maint & Repair	100%	Known	WORKS - New	CFT IV			\$ 50,000				25						50,000				
09877808	Miltoosh Rd over Baker (Pemberton) Creek	104460	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 372,000				25						372,000				
09877809	Bullard Parkway Turnoffs	N001 & 107H	Maint & Repair	100%	Known	WORKS - New	CW AD VAL			\$ 65,000				25						65,000	250,000			
09877810	Carrollwood Golf Turnoff Repairs	N 91511.1 N	Maint & Repair	100%	Known	WORKS - New	UNINC AD VAL			\$ 62,000				25						251,000				
09877810	Rayville Rd over Mizelle Creek	104670	Maint & Repair	14%	Known	WORKS - New	UNINC AD VAL			\$ 95,000				27						95,000			182,000	
098778011	Old Morris Bridge Rd over Cowhous Creek	104102	Maint & Repair	34%	Known	WORKS - New	UNINC AD VAL			\$ 50,000				26						50,000			682,000	
098778012	Iron Arrow Rd over Brindley Creek	104268	Maint & Repair	100%	Known	WORKS - New	CFT IV			\$ 25,000				27						25,000			50,000	
098778013	Biopg Rd Over Dug Creek	104308	Maint & Repair	20%	Known	WORKS - New	CFT IV			\$ 75,000				25						75,000			303,000	
098778014	Jameson Rd over S Prong Alfalfa River	104432	Maint & Repair	17%	Known	WORKS - New	CFT IV			\$ 60,000				25						60,000			290,000	
09877801	Falkenburg Rd over North Anhe Creek - ON HOLD FOR LA	104427	Scour Repair	0%	Known	WORKS - New	CNST FUEL	UNP		\$ 12,000				27						12,000			147,000	
09877802	Projected Bank Repairs	TR0	Bank Rehab	0%	Expected	Work	CFT IV	UNP		\$ 750,000				Annual						150,000			150,000	
09877999	Annual CEI Services	TR0	CEI	60%	Expected	Work	CFT IV	UNP		\$ 2,350,000				Annual						350,000			350,000	
09877300	Emergency/Unexpacted Construction WD	TR0	Maint & Repair	0%	Expected	Work	CFT IV	UNP		\$ 100,000				Annual						100,000			100,000	
09877808	Projected Maintenance & Repair Needs	TR0	Maint & Repair	2%	Expected	Work	CFT IV	UNP		\$ 2,754,000				Annual						721,000			1,972,000	
09877100	Countywide Construction - Maintenance & Repairs	TR0																						

Success – Developer Contributed Assets

- County has found that improper storage and poor construction methodology have caused issues to develop shortly after bridge acceptance.
- Bridge Team now shares its specialized knowledge by participating in design reviews and construction inspections.

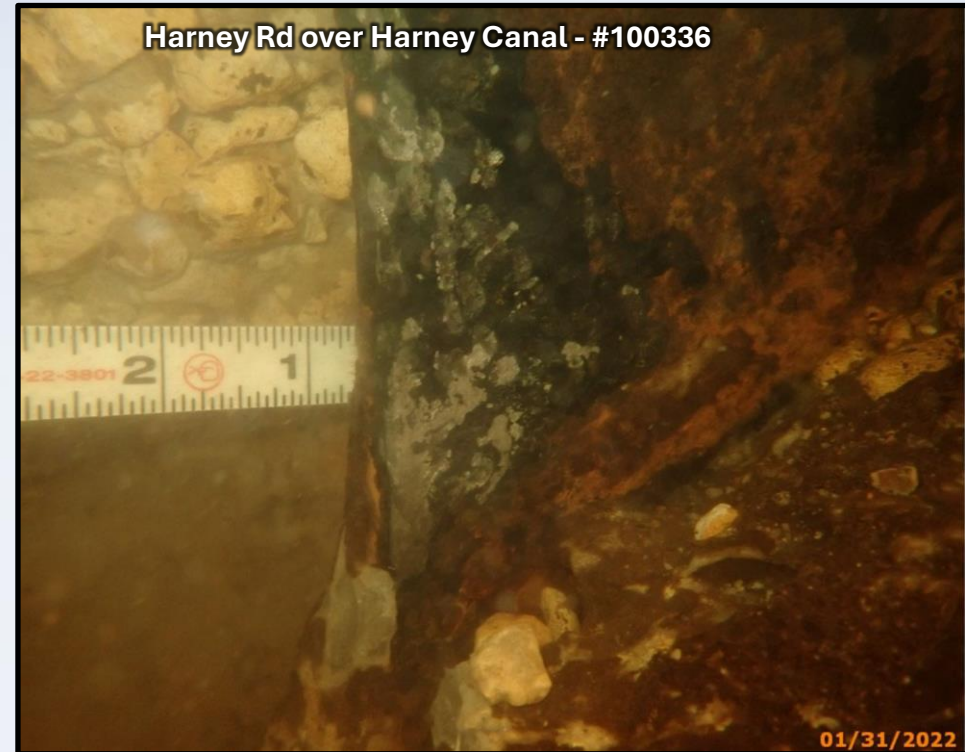


Success – Outside Collaboration

- Blanket agreement – Environmental Protection Commission
 - Non-Construction Miscellaneous Activities Authorization
 - Construction Maintenance for HC Bridge and Culvert Projects
- Heavy Haul Permit Requests
- Follow FDOT Inspection standards/formats for NQ bridges
- Form provided for Private Developers to request a NQ Bridge number
- County Staff versed in Grant Opportunities/Applications pursue Grants on Bridge Team's behalf (FDOT & FHWA/USDOT awards)

Success - Special Inspections

Performing Special Inspections when an issue is suspected is crucial to identifying deficiencies early and repairing them before they become big problems.



Snooping Inspection - Elastomeric Bearings

Underwater Inspection - Steel Sheet Pile



NATIONAL BRIDGE PRESERVATION CONFERENCE 2024
Innovation for Infrastructure Resiliency

Success – Reporting

- Key Performance Indicators & Initiatives
 - Reviewed monthly by Directors
- GASB Reporting
 - Quarterly
 - End of Year
- Annual Community Impacts



COMMUNITY IMPACT

The decisions that County leaders make every day about transportation, infrastructure, and investments influence how communities grow, change, and contribute to residents' quality of life.

Smooth and Strong Roadway Improvements

- Middle Lake Dr. is a local road surrounded by retention ponds with outfall/overflow elevations controlled by the community homeowners association.
- The primary factor leading to the pavement section's deteriorated condition was excessive ground water/surface water intrusion and subsequent periods of saturation.
- A specific asphalt base mix was designed to minimize water absorption and intrusion into the pavement section. The underlying base and asphalt layers of the roadway were rebuilt.



Avoiding Community Isolation

- Gran Kaymen Way over Kingston Canal bridge was built in 1986 and serves a community of 150 single-family homes; there is no available detour if this bridge were closed, which would isolate the entire community.
- County Bridge Inspectors identified numerous deficiencies, including seawall deterioration and slope instability.
- Once the design process was completed and construction began, multiple voids were discovered and filled immediately, and a potential catastrophe was avoided.



Hurricane Idalia Damages a Key Bridge

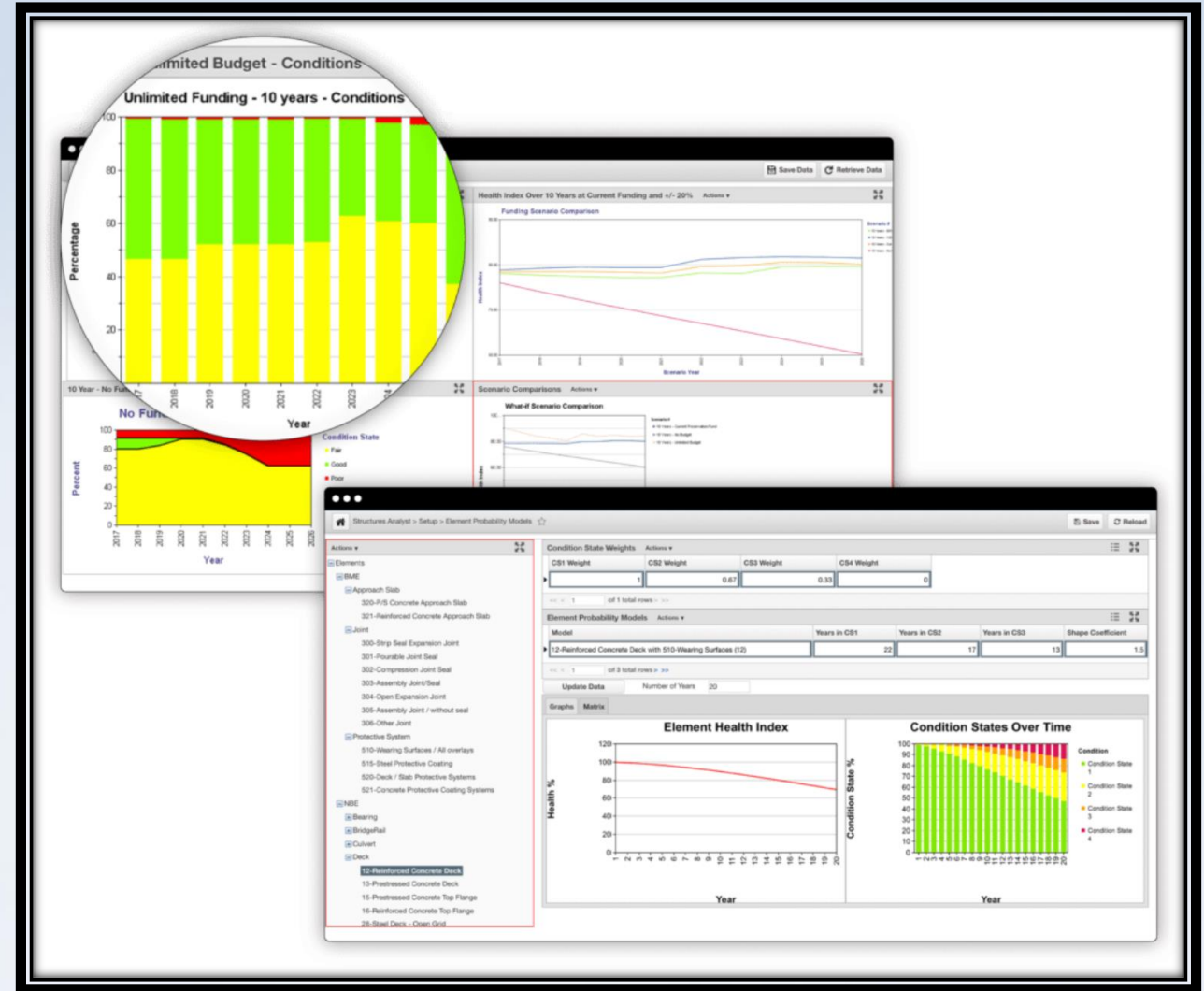
- Port Sutton Rd. over TECO Discharge Flume 2 bridge serves facilities in the Port of Tampa.
- Immediately after Hurricane Idalia, it was discovered that two large washout holes extending underneath the roadway had opened behind the east end seawall of the bridge, which created an unsafe condition for heavy traffic. Within one week of the discovery, the repair had been completed.
- This bridge is currently under design for replacement.



Success – Bridge Management System Implementation

- Provides the ability to analyze the impact of different treatment scenarios on overall system condition
- Maintains bridge documentation
- Generates work plans that optimize treatment options and schedules

Trimble AgileAssets Structures Analyst Implementation



Success – Leveraging Technology

Damage Assessment Bridge Team
Inspection Form

Team ID

West
 South
 East
 Countywide

Bridge ID

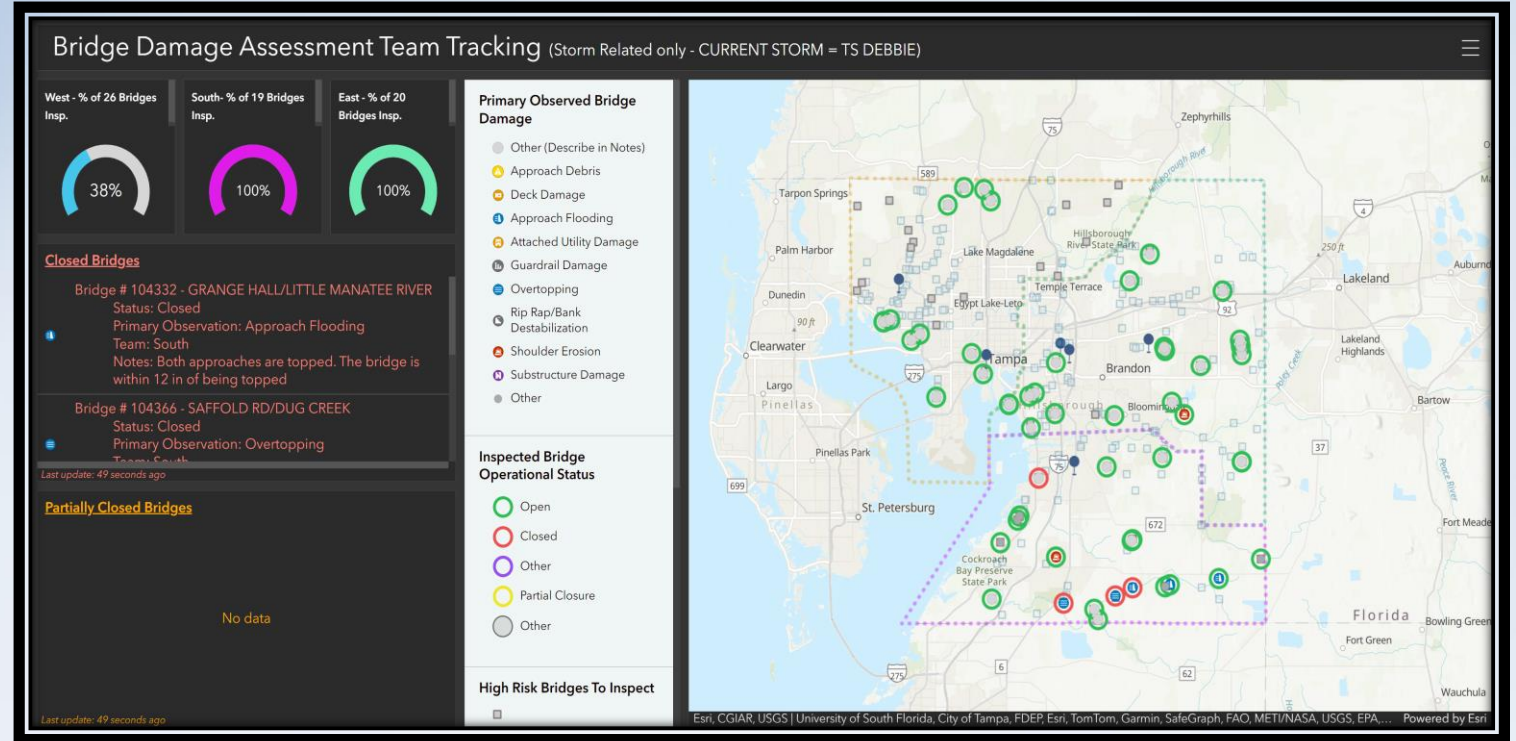
Observation Type

Approach Debris
 Approach Flooding
 Shoulder Erosion
 Guardrail Damage
 Deck Damage

Inspection Type *

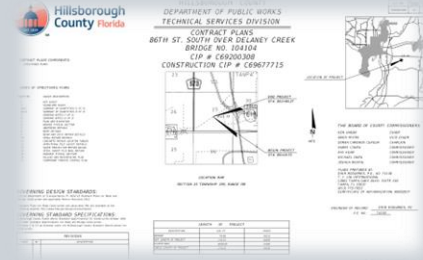
Pre Storm Bridge Inspection
 Post Storm Bridge Inspection

Field Notes



- Bridge Damage Assessment Team uses Mobile Survey123 Form to collect data & photos in field.
- Successfully used during Hurricanes Idalia and Debbie damage assessment.
- Management can access bridge status & photos from anywhere with an internet connection.

Success – FY 21-24 Project Completions

Phase	Project Types	# Projects	Total Cost
<p>PD&E</p>  <p>Gran Kaymen over Kingston Canal Bridge Feasibility Study October 05, 2022 TYLin</p>	<p>Special Inspections Feasibility Studies, Load Ratings, Geotech, Surveys</p>	<p>141</p>	<p>\$1.4 M</p>
<p>Design</p>  <p>Hillsborough County Florida DEPARTMENT OF PUBLIC WORKS TECHNICAL SERVICES DIVISION CONTRACT PLAN SOUTH OVER DELANEY CREEK BRIDGE NO. 102100 CIP # C69200308 CONSTRUCTION CIP # C6967715</p>	<p>Scour Mitigation, Maintenance & Repair</p>	<p>35</p>	<p>\$1.5 M</p>
<p>Construction</p> 	<p>Scour Mitigation, Maintenance & Repair, Sediment Removal</p>	<p>142</p>	<p>\$9.7 M</p>
Totals		318	\$12.6 M

Thank you!



Bridge # 105500 – Platt St over Hillsborough River

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