INFRASTRUCTURE **CROSS** DEPARTMENTAL **TEAM**

Tuesday, January 30, 2024







Team Members



Liz Plaska **Property and Casualty** Manager Risk Management



Megan Houston Director Office of Resilience



Keith Clinkscale Director

Marcela C. Millett Sr. Analyst

Strategic Planning and



Christian Londono Director **Support Services** Palm Tran



Clinton Forbes Executive Director Palm Tran

Cynthia Portnoy

Program Manager

Airports

Daniel Duenas

Planner I

Parks & Recreation



Isami Ayala-Collazo Director Facilities Development & Operations



Motasem Al-Turk Director Traffic Division



David Ricks Director **Engineering & Public Works**



Performance Management

Regina Hagger GIS Manager Information Systems Services



Ali Bayat Director Water Utilities Dept.

Elizabeth Prior

Director, Branch Services



In Memorium John Acton



Technical Assistant II Traffic Division



Archie Satchell **Chief Information Officer Information Systems** Services



Assistant Director WUD Operations



Jean Matthews Senior Planner Parks & Recreation







Mary Brodbeck

Ruth C. Moguillansky **Principal Planner** Community Revitalization



Khurshid Mohyuddin Principal Planner Planning, Zoning & Building



Infrastructure Cross-Departmental Team

Infrastructure Goals:

- 1. Increase resiliency and sustainability of infrastructure.
- 2. Continue to preserve existing infrastructure and deliver new infrastructure that conforms to the latest industry standards.
- 3. Create safe, healthy, and attractive neighborhoods and communities.
- 4. Increase multimodal travel opportunities with safe and efficient transportation services.

Goal 1: Increase resiliency and sustainability of infrastructure

Metric: Increase funding for resiliency and sustainability projects

\$650,000 acquired by Palm Tran and Office of Resilience (OOR) to help gain energy efficiency capital infrastructure.

(Energy Community Block Grant Program)

> \$1 Million acquired by OOR and Parks & Recreation Department to expand tree canopy coverage in the Glades.

(EPA Environmental Justice Government-to-Government)

\$34 Million acquired from various funding between 2022 and 2023 for Water Utilities projects.
 \$8 Million more pending by State and may be approved in early 2024.

\$5 Million acquired by PBC to fund planning and implementation projects.

(Florida Department of Environmental Protection Resilient Florida Program)

Because of this Cross-Departmental Team, these applications are now being developed more collaboratively, therefore, increasing funding opportunities for the County.



Goal 1: Increase resiliency and sustainability of infrastructure Metric: Reduce and minimize pollutants in stormwater discharge

>

Stormwater Infrastructure Mapping

- Completion of contractor Stormwater GIS study will provide framework for data acquisition tasks.
- \$750,000 task issued to contractor in 2021
- Developed data model consisting of 29 layers with 3 datasets (complete)
- 1000+ historical road project plans digitized and mapped to aid future data entry in creating a stormwater system layer (90% complete)
- Interactive dashboard developed to track Road and Bridge mapping while performing maintenance operations (complete)

Map Stormwater Infrastructure based on Record Drawings

Use field staff to fill gaps in records

Publish Map
(estimated 2025)





*(In Progress)
(Ongoing)

Goal 2: Continue to preserve existing infrastructure and deliver new infrastructure Metric: Electrify Transportation

> Electric Vehicle (EV) Chargers at County Facilities

Chargers have been installed at Government Center and PBC Convention Center:

GOVERNMENT CENTER:

4 dual port chargers for 8 spots total, including 1 ADA spot

CONVENTION CENTER:

6 dual port chargers for 12 spots total, including 1 ADA spot

VISTA CENTER:

Anticipated charging equipment; in the planning stage

PBIA:

3 chargers in shortterm parking garage, **2 chargers** in Travel Plaza/Cell Phone Lot

> Chargers for Electric Buses

Infrastructure for **20 EV charging stations** at Palm Tran's South County facility installed in 2021.

Electric Vehicle Integration for Fleet

Palm Beach County Fleet recently purchased and obtained the **first EV in its fleet**, a Nissan Leaf. Updated hybrid vehicles have also rejoined the fleet.



Ongoing County Infrastructure Projects

- Major Capital Projects Under Construction (excluding Libraries, Parks & Recreation and Engineering)
 - New Central County Housing Resource Center (HRC II)
 - **Detention Center Facilities Renewal & Replacement**
 - New Fire Rescue Station No. 40
 - **Four Points Renovation**
 - New PBSO District 1 Substation and Marine Unit
 - **PBSO Headquarters Renewal & Replacement**
 - New Prosperity Village Cottage Homes
 - New Supervisor of Elections Production Facility



Housing Resource Center (HRC II) rendering photo



Ongoing County Infrastructure Projects - Libraries

> Canyon Branch Library

Construction is **approximately 60% completed**. The Project includes a one-story facility, including a 3,000 square feet community meeting space, outdoor Plaza and surface parking.

Currently scheduled for opening in Autumn of 2024!



Canyon Branch Library - Sept. 2023

> Wellington & Lantana Branches

All new finishes, new work and study spaces, collaboration rooms, creation stations, modern furniture, LED lighting and high efficient air cooled AC chillers.

New Book Stop Alert! – Canyon District Park

Every Thursday: 3:30 pm - 6:30 pm



Ongoing County Infrastructure Projects – Engineering and Public Works

> Five Year Road Program

The Five Year Road Program was established to set **priorities for funding, design, and construction** of the County's roadway transportation system. Funding sources include impact fees, proportionate share, gas taxes, infrastructure tax, and miscellaneous agreements.

- **The Are S. (Lave Ave. to Congress Blvd) Renewal & Replacement**
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- New Lyons Rd (L-38 Canal to Atlantic Ave)
- New 60th St. (Avocado Blvd to 120th Ave N.)
- Australian Ave. (drainage improvement) Replacement





Completed County Infrastructure Projects – Parks and Recreation

Parks & Recreation

Since 2018, Parks & Recreation has received over \$7 Million in grants from funding sources such as Florida Inland Navigation District, Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission and Community Development Block Grants.



2022 Projects:

Carlin Park - six Pickleball Courts

Canyon District Park Phase I Development

Glades Pioneer – Activities Building

Gramercy Park – Tennis to Basketball Conversion

John Prince Memorial Park – Pickleball Court
Conversion

2023 Projects:

DuBois Park – Pineapple House Renovations **John Prince Memorial Park** – Center Drive

Boat Ramp Renovations

Boat Ramp Renovations

Ocean Inlet Park – Phase 1 Redevelopment

Ongoing County Infrastructure Projects - Airports

New concessions

Larger waiting

areas

PBI Concourse B Expansion

The project will modernize the concourse and increase capacity to accommodate the needs of PBI's 7.5 million annual visitors and enhance the passenger experience.

- > The remodel and expansion project includes:
 - Expanded restrooms
 - 2 New Passenger Gates
 - Higher Efficiency Electrical
 - and Mechanical Systems

Program

The program for design and construction of projects at all 4 County-owned airports totals \$226 Million.

Airports 5-year Capital Improvement

- Projects include:
 - **Airfield/Roadway Improvements**
 - **Facility Improvements**
 - **Special Projects** (Fuel Farm and Washrack-LNA)
 - **Planning** Noise Studies (Lantana), Environmental Assessment (North County), Master Plan Updates (Lantana), PBI Sustainability Master Plan, PBI Gate Capacity Analysis and Aviation Forecast Analysis future expansion

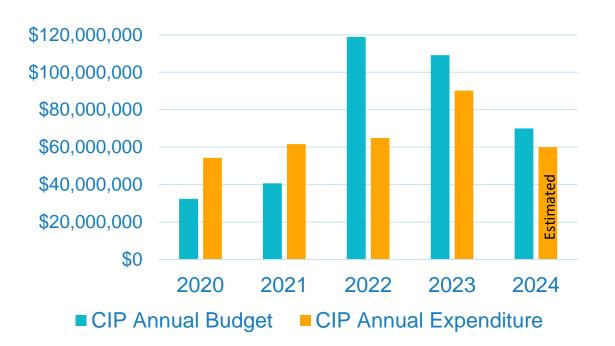


4th in Conde Nast's Top 10 Airports in the US: Readers' **Choice Awards** 2023



Ongoing County Infrastructure Projects – Water Utilities

- "Integrated Master Plan" Project phase I (complete)
- Capital Improvement Program 5 years spending is projected to be above \$500 Million



Zero Water Quality Violations in 2023

\$371 million Capital Re-investment 2020-2024

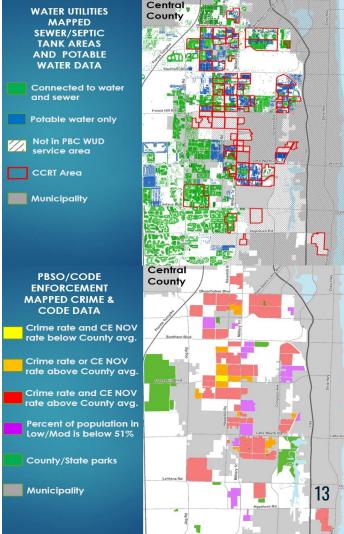
PBC monthly residential service cost is 29% below the State average

Goal 3: Create safe, healthy, and attractive neighborhoods and communities

Infrastructure GIS Portal

- Due to the collaboration of the departments on this CDT, especially due to the Countywide Community Revitalization Team (CCRT) Needs Assessment process, members recognized the overlap of projects and the need to easily access information for planning, budgeting, and notification to the public.
- Many county departments collaborated on developing, building and maintaining this GIS portal showing current and past projects, such as new roads, water pipe installations and renovations, etc.
- The portal has allowed the County to limit the financial and disruptive impacts to the community and has evolved to allow non-construction departments and other stakeholders to utilize the information as well.

2022 National Association of Counties Achievement Award Winner! Category: Information Technology (Best in Category)



Reclamation Education Center for Advanced Purification

The Reclamation Education Center for Advanced Purification (RECAP) is part of Green Cay and will be included in Phase II as a new state-of-the-art education/learning facility. The Board has already approved Phase II (construction phase) – **Groundbreaking coming by Spring 2024!**

- Water Supply & Aquifer Recharge
 - Ensure a sustainable water supply
 - Utilize advanced technology to replenish groundwater supplies and met future water supply needs
- **Leader in Reuse Innovation**
 - Apply innovation, technology and forwardthinking strategy to water reuse

- **Environmental Stewardship**
 - Preserve our natural resources
- **>** Education & Outreach
 - Raise awareness and provide educational opportunities about local water resources and conservation –

building future Scientists and





Goal 4: Increase multimodal travel opportunities with safe and efficient transportation services

Metric: Continue to provide safe and accessible means of multimodal transportation



\$639 Thousand received to develop a Safety Action Plan to identify projects that can enhance the safety of the County's transportation network and be eligible for future Safe Streets for All funds.

Almost 2K street lights have been converted to LED in PBC Construction of over 52 miles of pathways since 2018

Bike Lanes

PBC received a **\$4.35 Million Local Initiative grant** to construct approximately **3 miles** of separated bike lanes on Sansbury Way from Forest Hill Blvd to Okeechobee Blvd. Construction on the road is currently underway.



BIKE ROUTE

Goal 4: Increase multimodal travel opportunities with safe and efficient transportation services

Metric: Continue to provide safe and accessible means of multimodal transportation

the Glades

easily and

Go Glades Service

A \$1.1 Million federally funded mobility on-demand service in the Glades area, which provides enhanced mobility and connectivity to the community.

> Pay Your Way

Palm Tran introduced the Pay Your Way fare system introduced in 2023. This allows customers to purchase passes using nearly any type of payment method! The project was **federally funded for \$6.5 Million**.

On-Time Performance
Palm Tran's service on-time performance

has improved significantly over the last five years. Reaching a high of 82% in 2023.

Palm Tran's Ridership increased

Palm Tran's Ridership increased rapidly in FY 2023 allowing to end the year with a ridership recovery of 94.4% of pre-pandemic ridership levels.





Thank you! Questions?

Infrastructure Cross-Departmental Team

- Backup Information / Addendum
- Not presented in person during workshop

BCC Workshop -January 30, 2024

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Infrastructure Cross-Departmental Team

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Goal 1: Increase resiliency and sustainability of infrastructure

Metric: Increase funding for resiliency and sustainability projects

> FDEP Resilient Florida Program

PBC received **\$5M** (out of \$23M requested) in funding from the Florida Department of Environmental Protection (FDEP) Resilient Florida Program.

These applications were developed collaboratively to fund planning and implementation projects. Awards are as follows:

- > \$4M Engineering & Public Works
- > \$1M Office of Resilience



Goal 1: Increase resiliency and sustainability of infrastructure

Metric: Increase funding for resiliency and sustainability projects

> U.S. Department of Energy

Energy Community Block Grant Program

Palm Tran and Office of Resilience (OOR) secured ~ \$650,000 to help acquire energy efficiency capital infrastructure.

> U.S. Environmental Protection Agency

OOR and Parks & Recreation Department applied for \$1M in grant funding through the EPA Environmental Justice Government-to-Government program to expand tree canopy coverage in the Glades by working with local nonprofit Community Greening.



RECEIVED NOTICE OF FUNDING IN OCTOBER 2023!

Goal 1: Increase resiliency and sustainability of infrastructure Metric: Ensure consistent planning and designing for sea level rise and extreme weather events

> Resilience Checklists

Office of Resilience (OOR) worked with several Departments to create a Countywide Policy and Procedure Manual (PPM) for promoting resiliency and sustainability in County capital construction projects (CCP). OOR trained all construction departments to ensure understanding of the PPM and resiliency measures that are available.



- Track metrics regarding CCPs
- Keep record of resiliency and sustainability measures being taken by County departments



Goal 1: Increase resiliency and sustainability of infrastructure Metric: Reduce and minimize pollutants in stormwater discharge

Stormwater Infrastructure Mapping

- **Completion of contractor Stormwater GIS study** will provide framework for data acquisition tasks.
- \$750,000 task issued to contractor in 2021
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Map Stormwater Infrastructure based on Record **Drawings**

Use field staff to fill gaps in records

Publish Map





*(In Progress) (Ongoing)

Continue to *preserve* existing infrastructure and deliver *new* infrastructure that conforms to the latest industry standards.



Goal 2: Continue to preserve existing infrastructure and deliver new infrastructure that conforms to the latest industry standards.

Metric: Reduce facility energy and water use intensity

> Countywide HVAC Updates

Facilities Development & Operations (FD&O) replaced the Heating, Ventilation and Air Conditioning (HVAC) systems in several buildings, which not only reduces operating costs, but are also more energy efficient. The updates also help withstand outages from inclement weather.

> Countywide Maintenance Activities

Preventative Maintenance Completed:

29,738

Corrective Work Orders Completed:

5,391

PBC Risk Management completed over 800 inspections of county-owned buildings the last 5 years!



Goal 2: Continue to preserve existing infrastructure and deliver new infrastructure that conforms to the latest industry standards.

Metric: Electrify Transportation

Electric Vehicle (EV) Chargers at County Facilities
Chargers have been installed at Government Center and PBC Convention Center:

GOVERNMENT CENTER:

4 dual port chargers for 8 spots total, including 1 ADA spot

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6 dual port chargers for 12 spots total, including 1 ADA spot

VISTA CENTER:

Anticipated charging equipment; in the planning stage

PBIA:

3 chargers in short-term parking garage,2 in Travel Plaza/Cell Phone Lot

*Exploring more chargers for parking facilities and Cell Phone Lot

Chargers for Electric Buses

Infrastructure for 20 EV charging stations at Palm Tran's South County facility installed in 2021.

> Electric Vehicle Integration for Fleet

Palm Beach County Fleet recently purchased and obtained the first EV in its fleet, a Nissan Leaf. Updated hybrid vehicles have also rejoined the fleet.



County Capital Projects Completed



- 2019
- 2020

- ✓ Homeless Family Shelter Reno (aka Program Reach)
- **✓** Fire Rescue Headquarters

 Dispatch Reno
- Fire Rescue Station No. 19
 Renovation
- ✓ Countywide Radio Replacement

- **√** Fire Rescue Bay Door Replacements
- ✓ Weatherproofing (Countywide)

✓ New! – Fire Rescue Station No. 22

Located in the City of Westlake

County Capital Projects Completed







- **✓ Palm Tran South Expansion**
- ✓ Lake Village at the Glades (aka Melissa's Place)
- ✓ Belle Glade Intake and Assessment Center
- **✓ PBSO Forensic Sciences and Technology Facility**

✓ Courthouse Electronics
System Renewal &
Replacement

✓ Medical Examiner's Office Improvements

Project included expansion of administration building and new parking structure

Ongoing County Infrastructure Projects

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Housing Resource Center (HRC II) rendering photo



Ongoing County Infrastructure Projects - Libraries

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- **b** 6th Ave S. (Lave Ave. to Congress Blvd) Renewal & Replacement
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Completed County Infrastructure Projects – Parks and Recreation

Parks & Recreation

Since 2018, Parks & Recreation has received over \$7 Million in grants from funding sources such as Florida Inland Navigation District, Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission and Community Development Block Grants.



2022 Projects:

Carlin Park – six Pickleball Courts

Canyon District Park Phase I Development

Glades Pioneer – Activities Building

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Boat Ramp Renovations

Ocean Inlet Park – Phase 1 Redevelopment

1

Conversion

Glades Pioneer Orange Bowl Field

Selected for a \$1.5 Million Orange
Bowl Legacy Gift for field renovations.
Gift was matched with County funding.
An additional \$400,000 in grant
funding was received from the Quantum
Foundation and the NFL Foundation





Pioneer Park Orange Bowl Fields

Goal 2: Continue to preserve existing infrastructure and deliver new infrastructure that conforms to the latest industry standards.

Metric: Continue to convert existing infrastructures to conform to latest industry standards

Airports 5-year Capital Improvement Program

The program for design and construction of projects at all 4 County-owned airports totaling \$226 Million.

> Projects include:

- Airfield/Roadway Improvements
- Facility Improvements
- Special Projects (Fuel Farm and Washrack-LNA)
- Planning Noise Studies (Lantana), Environmental Assessment

(North County), Master Plan Updates (Lantana), PBI Sustainability Master Plan, PBI Gate Capacity Analysis and Aviation Forecast Analysis future expansion



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PBI Concourse B Expansion

The project will modernize the concourse and increase capacity to accommodate passenger demand and enhance passenger experience.

▶ The remodel and expansion project includes:

- Expanded restrooms
- 2 New Passenger Gates
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 A sensory room Mechanical Systems
- New concessions
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4th Best Mid-Size Airport in North America in 2023 by J.D. Power

8th Best Domestic Airport in 2023 by readers of Travel + Leisure



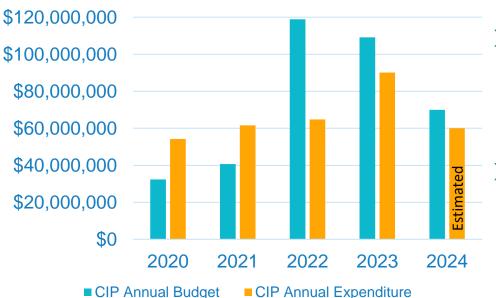




4th in *Conde Nast's* Top 10 Airports in the US: Readers' Choice Awards 2023

Goal 2: Continue to preserve existing infrastructure and deliver new infrastructure that conforms to the latest industry standards. Metric: Continue to implement Water Utilities Department Capital Improvement Program on Schedule

- "Integrated Master Plan" Project phase I (complete)
- Capital Improvement Program 5 years spending is projected to be above \$500 Million



\$8 Million more pending by State and may be approved in early 2024.

PBC monthly residential service cost is **29% below** the State average

Zero Water Quality Violations in 2023

\$371 million Capital Re-investment 2020-2024



Goal 3: Create safe, healthy, and attractive neighborhoods and communities

Metric: Expand reliable access to the Internet to PBC students

Allocated (CARES & ARPA) - \$55M Expended/Encumbered – \$29M

917 Poles 84 Schools 10 Boys and Girls Club 17 Library Branches

47 County Parks with Connectivity

12 Schools

6 County Parks

Municipal Parks – WPB, PBG, Wellington,

Lake Park, Palm Springs, Boynton Beach

Install additional fiber

Timeline – End of 2026



Goal 3: Create safe, healthy, and attractive neighborhoods and communities

Metric: Assess existing infrastructure and service delivery needs in **CCRT** areas



Countywide Community Revitalization Team (CCRT)

- The Office of Community Revitalization collaborated with community members to identify priority locations and successfully implement speed hump installations in the Cannongate-Southwoods CCRT area to help improve pedestrian safety and reduce speeding incidents.
- Facilitated the completion of a critical drainage repair in the County Club Acres CCRT areas.
- Started to upgraded and expand street lighting infrastructure in 18 CCRT areas, resulting in a projected savings of over \$350,000.
- Facilitated the completion of the Sandalfoot Blvd. Street Lighting Installation Project in the Watergate Estates CCRT area.
- The CCRT Needs Assessment became the catalyst for the creation of the County's Infrastructure Portal, which is now used by several county departments and other stakeholders.

NEIGHBORHOOD INDICATORS

Healthy Neighborhood Indicator	Score	Ranking
No crime or low crime rates	44	10
Sewer availability	43	9
Availability of potable water	41	8
Proper drainage system in place/or effective drainage system	33	7
Neighborhood cleanness/No Illegal Dumping	27	6
Paved roads or roads in good condition	26	5
No code Issues	22	4
Accessibility to sidewalks	13	1
Accessibility/proximity to parks, playground and other recreational facilities that are tailored to the community's population	13	1
Community leadership and/or neighborhood association in place	13	1

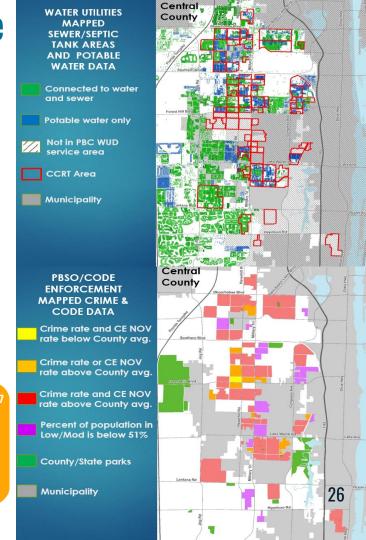


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2022 National Association of Counties Achievement Award Winner!
Category: Information Technology
(Best in Category)



Green Cay – Water Utilities and Parks & Recreation

Green Cay Phase II Progressive Design-Build with DM Constructors Inc. for \$89 Million. Green Cay Phase II includes a water purification system, a new state-of-the-art education/learning facility, a new 63-acre public park and new water wells and transmission lines.



Green Cay Phase II Status Update:

- Design & Planning Complete: December 2023
- Groundbreaking: February 2024
- Open to Public: August 2026





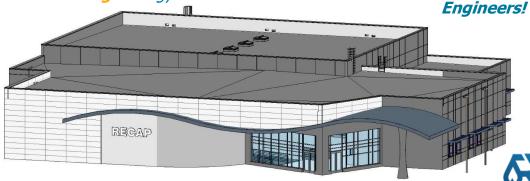
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 - Ensure a sustainable water supply
 - Utilize advanced technology to replenish groundwater supplies and met future water supply needs
- **Leader in Reuse Innovation**
 - Apply innovation, technology and forwardthinking strategy to water reuse

- **Environmental Stewardship**
 - Preserve our natural resources
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 - Raise awareness and provide educational opportunities about local water resources and conservation –

building future Scientists and



Water Utilities Recognitions & Awards

Best in Class: Asset Management

WUD is the *First Water Utility* in North America to receive the International Organization for Standardization (ISO) 55001 certification in 2021!



Award 2023

Outstanding Membrane Plant Award 2023











Metric: Continue to provide safe and accessible means of multimodal transportation

> Safe Streets For All Grant

The Traffic Division of Engineering & Public Works submitted an application under the Safe Streets For All program (SS4A) and was selected to receive a **federal grant of \$639K** to develop a Safety Action Plan to identify projects that can enhance the safety of the County's transportation network and be eligible for future SS4A funds.

Almost 2K street lights have been converted to LED in PBC

EPW has overseen the construction of over 52 miles of pathways since 2018





Metric: Continue to provide safe and accessible means of multimodal transportation



PBC received a \$4.35 Million Local Initiative grant to construct approximately 3 miles of separated bike lanes on Sansbury Way from Forest Hill Blvd to Okeechobee Blvd. Construction on the road is currently underway.





Metric: Increase Ridership and Improve On-Time Performance

> On-Time Performance

Palm Tran's service on-time performance has improved significantly over the last five years. Reaching a high of 82% in 2023.

Palm Tran's Ridership

Palm Tran's Ridership increased rapidly in FY 2023 allowing to end the year with a ridership recovery of 94.4% of pre-pandemic ridership levels.





Palm Tran bus at bus stop in West Palm Beach

Metric: Continue to provide safe and accessible means of multimodal transportation

the Glades,

Go Glades Service

A \$1.1 Million federally funded mobility on-demand service in the Glades area, which provides enhanced mobility and connectivity to the community.

Pay Your Way

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Exploring partnership opportunities with rideshare companies!

Palm Tran Recognitions & Awards





NACo Achievement Award 2023 for Paradise Pass Open-Payment and Retail Network APTA "AdWheel" Award for the Palm Tran 2021 Annual Report







Clinton B. Forbes
Executive Director, Palm Tran



On the horizon

Airports North County Runway 14-32 expansion (extending to 6K linear feet)

Facilities Development & Operations
Fire Rescue Station No.s 49 & 92 construction
and No. 24 replacement

Brooks Subdivision
EOC/Four Points Hardened Connection
Roger Dean Chevrolet Stadium Renovation

Engineering & Public Works

Northlake Blvd expansion

Lyons Rd (Atlantic Ave to Flavor Pict RD)

Hood Rd smart signals

Transit Signal Priority
Libraries
Gardens Branch renovation

Parks & Recreation Gramercy Park Neighborhood Center Villages of Windsor Dog Park







...and much more!



Thank you! Questions?