

SR 5/US-1/FEDERAL HIGHWAY FROM SR 869/I-595 TO SR 842/BROWARD BOULEVARD HENRY E. KINNEY TUNNEL REHABILITATION Project Identification Nos.: 439714-1-52-01/439714-1-52-01 Broward County

City of Fort Lauderdale Commission Meeting October 6, 2020

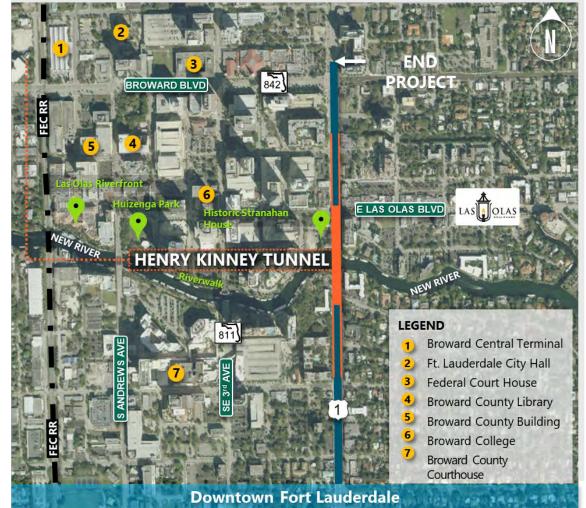
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Project Location



SR 5/US-1/Federal Highway from I-595 to north of Broward Boulevard in Fort Lauderdale, Florida





Purpose and Objectives

- Rehabilitate the Henry E. Kinney Tunnel to meet the latest federal, state, and local standards and guidelines for architecture, structural, mechanical, electrical, and life safety
- Improve safety and mobility on US-1

• Enhance East Las Olas Boulevard at SE 6th Avenue for a livable community

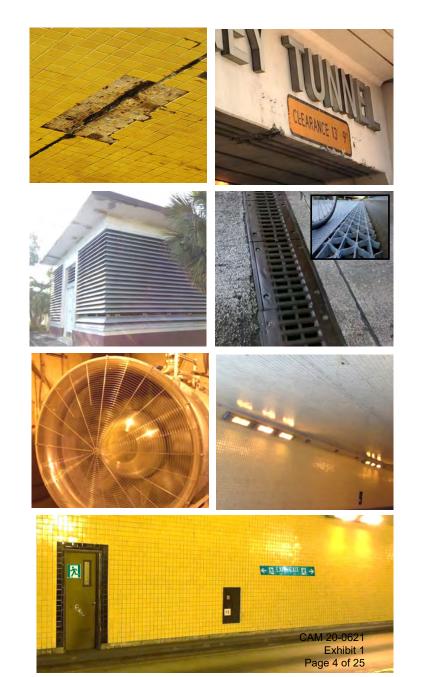






Tunnel Rehabilitation

- Structural
 - Remove delaminated tiles
 - Repair spalls
- Architecture/Civil
 - Repair South Ventilation Building
 - Install impact attenuators at portals
 - Replace drainage grates (for bicycles)
- Mechanical
 - Replace pumps and ventilation fans
 - Install detectors for hazardous gases
- Electrical
 - Replace lighting with LED
 - Replace control systems and wiring
- Life Safety
 - Install exit signage in tunnel
 - Replace fire detection system and valves





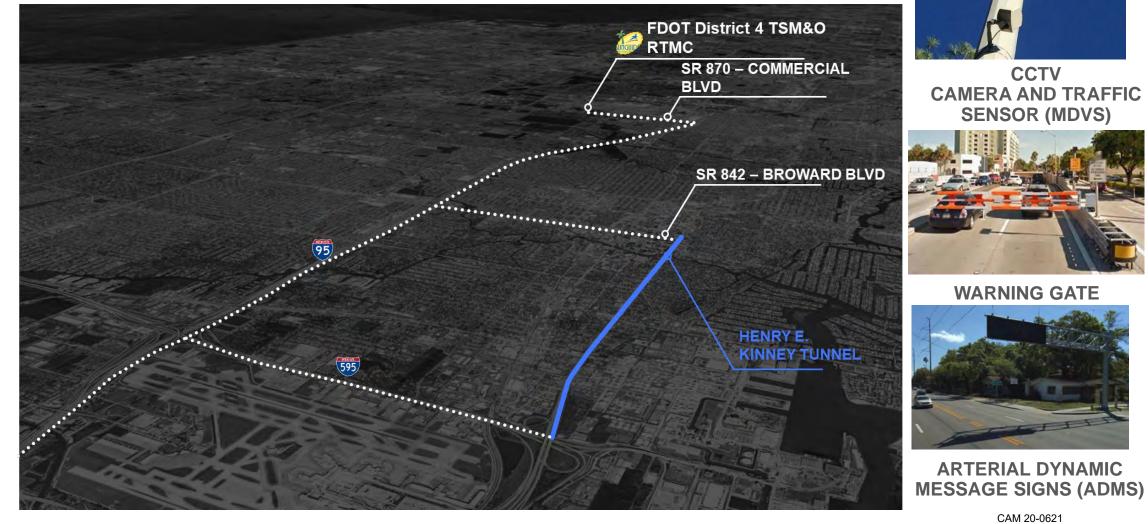
Improve Safety and Mobility

- Adaptive Traffic Signal Control (ATC) System on US-1 at:
 - SE 30th Street
 - SE 28th Street
 - SR 84/Marina Boulevard
 - SE 17th Street
 - Davie Boulevard
 - SE 9th Street
 - SE 7th Street
 - Broward Boulevard





Intelligent Transportation System (ITS)





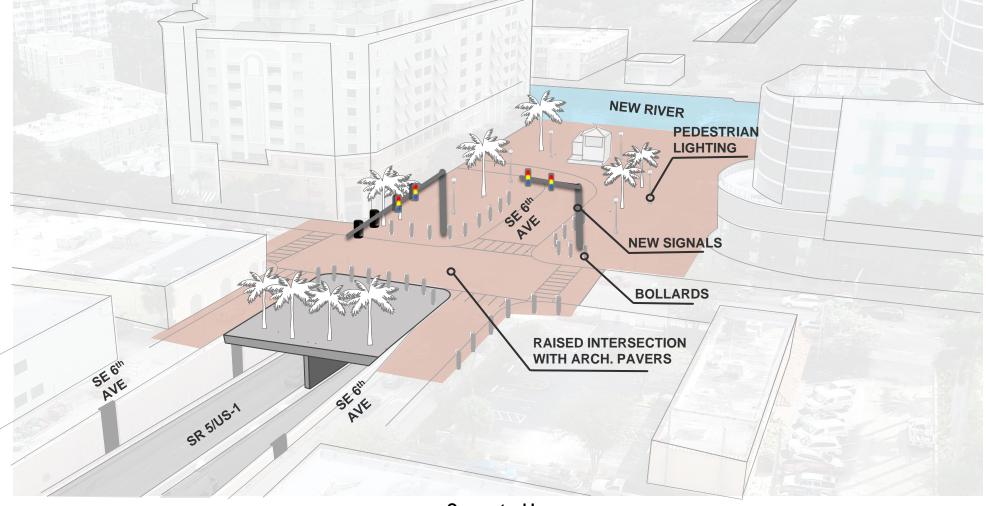
Existing Conditions



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Tunnel Top Pedestrian Plaza



Conceptual Image



Tunnel Top Pedestrian Plaza

- City of Fort Lauderdale Local Funded Agreement (\$10.6M)
- FP ID 439714-1-52-02
- Funded by City's Park Bonds
- Improves sight distance for SE 6th Avenue Southbound at Las Olas Boulevard
- Enhance Las Olas Boulevard at SE 6th Avenue:
 - Construct New Pedestrian Plaza/Tunnel Extension (117-ft)
 - Raised intersection
 - Reconstruct North ventilation building
 - Reconstruct SE 6th Ave and Laura Ward Riverwalk Plaza
 - Install hardscape and landscape
 - Replace signals with new mast arms





Tunnel Top Pedestrian Plaza – Coordination and Public Outreach

- Previous concepts and public meetings
 - Downtown Development Authority (DDA) 2013 Concept
 - City's Structural Study of North Deck Extension 2015
 - FDOT Locally Funded Agreement (LFA) Concept 2017
 - **Presentations and Public Meetings**
 - **Commission Meetings**
 - Public Meeting on April 24, 2019
 - Public Meeting on November 25, 2019
 - Parks, Recreation, & Beaches Advisory Board Meeting on January 22, 2020 approves funding for final design and construction



DDA Concept (2013)

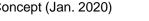


Public Meeting Concept (April 2019)



Final Concept (Jan. 2020)



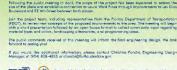






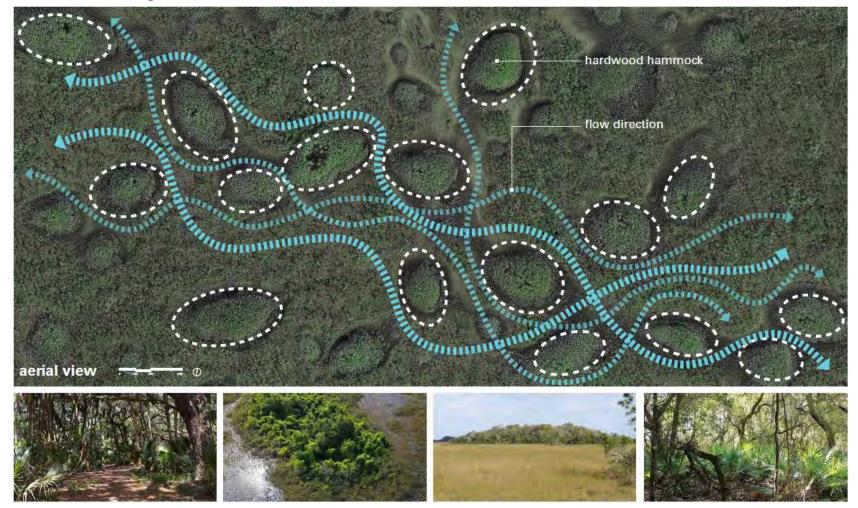








Tunnel Top Pedestrian Plaza



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Tunnel Top Pedestrian Plaza



















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Tunnel Top Pedestrian Plaza





Laura Ward Plaza

- Key Features:
- Trail head for Riverwalk
 - Connection to Las Olas
- Artificial turf event space
- Water Taxi improvements
 - Defined space
 - Seating
 - Shade
 - Lighting
- Vent Shaft improvements
 - Increase pedestrian space and opportunity for interpretative panels
- Planting focused on native canopy





Riverside Hotel & ICON Plazas Key Features:

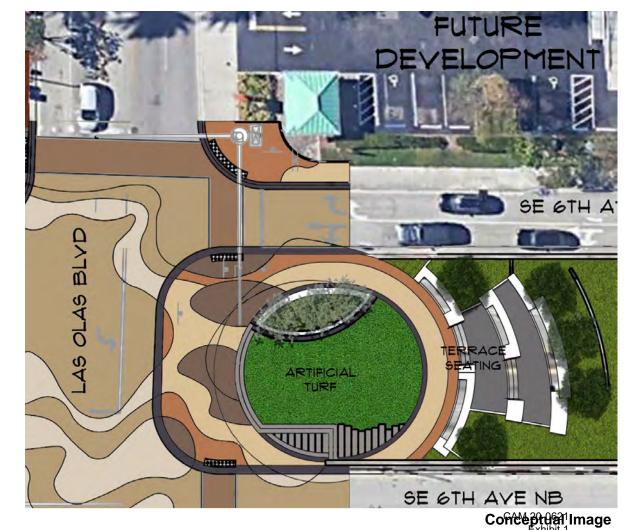
- Redefined cohesive patterned pavement to enhance flowing concept
 - Provides transition of "the canvas"
 - Preservation of Riverwalk donor pavers
- Renovation of fountain
- Preservation of access to Stranahan House
- Planting focused on native canopy





Tunnel Top Plaza Key Features:

- Terrace seating
 - Elevated view to New River
 - Thematic head spring flowing to New River
- Elevated artificial turf play space
- Planting focused on native canopy



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Tunnel Top Pedestrian Plaza





Tunnel Top Pedestrian Plaza



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Tunnel Top Pedestrian Plaza





Tunnel Top Pedestrian Plaza

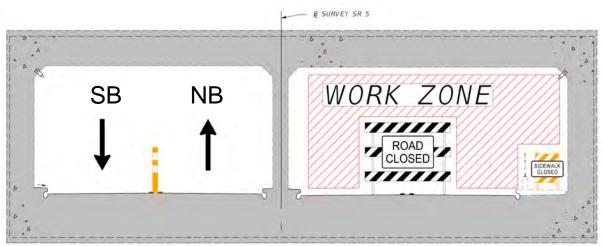


Historic Preservation Consultation

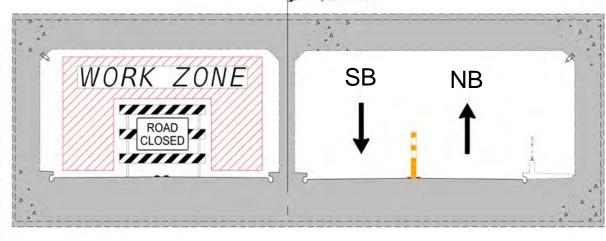




TCP 1 - CLOSE NORTHBOUND SIDE OF TUNNEL: TWO-LANE TWO-WAY TRAFFIC



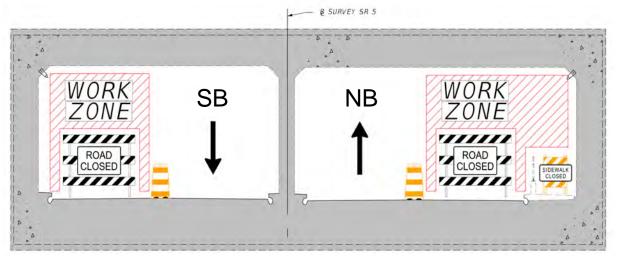
TCP 2 - CLOSE SOUTHBOUND SIDE OF TUNNEL: TWO-LANE TWO-WAY TRAFFIC



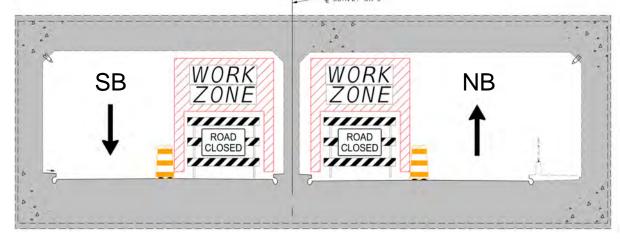
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TCP 3 - CLOSE OUTSIDE LANE IN EACH DIRECTION



TCP 4 - CLOSE INSIDE LANE IN EACH DIRECTION

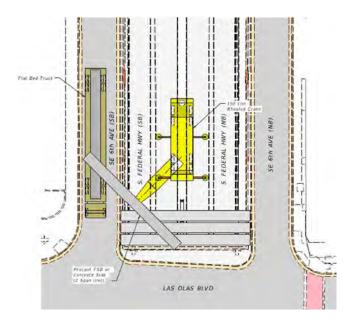


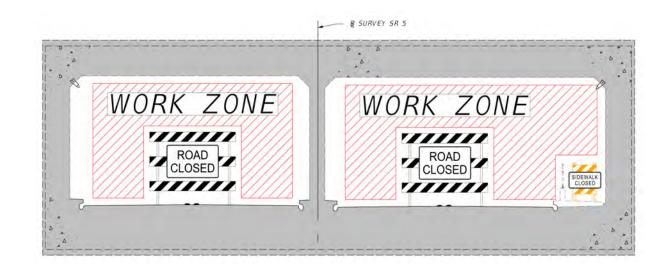
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TCP 5 - FULL TUNNEL CLOSURE – DETOUR TRAFFIC

- Install detour for vehicle and pedestrian traffic on US-1 at tunnel
- Close all lanes of US-1 to traffic at tunnel







FULL TUNNEL CLOSURE – DETOUR TRAFFIC (NIGHTTIME OR WEEKENDS) TCP 5

- Detour traffic on US-1 at the tunnel
- Coordinate with emergency responders, 3rd
 Avenue bridge, and Broward County Traffic
- Detour of traffic through local streets (SE 7th Street, SE 3rd Avenue and Broward Boulevard
- Pedestrian (sidewalk) traffic shall use SE 6th Street, SE 3rd Avenue, and East Las Olas Boulevard for detours



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Project Schedule and Cost

- Construction Cost Estimate: \$26 Million
- Final Design Completion:

December 2020

• Letting Date (Bid Opening):

May 2021

Construction Start: Summer 2021

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