

Port*Miami* Rail Intermodal and Bascule Bridge Rehabilitation Project TIGER II Grant

Quick Facts

- PortMiami is located in Miami-Dade County, one of the most diverse, multilingual populations in the U.S. making Greater Miami one of the world's most ideal centers for international trade and tourism
- The 12th Busiest Container Port in the United States
- Among the Top Container Ports in Florida More than 876,000 TEUs in 2014
- Cruise Capital of the World More than 4.77 million passengers in 2014 (Another World Record!)
- <u>167,000</u> daily passengers
- **<u>\$126.1 million</u>** in revenue (per the CAFR)
- Economic Impact: <u>\$27 billion and 207,000</u> Direct/Indirect Jobs to South Florida



TIGER II Grant Overview

- Grant Executed March 17, 2011 MARAD
- Project Estimate \$49,307, 800
 - On-Port \$25,067,000
 - Off-Port \$24,240,800
- Grant Amount \$22,767,000
- NEPA Approval Categorical Exclusion April 2011
- Port Lead 4.4 miles
 - Off-Port Rail Contract Awarded & Completed by FEC
- Rail Bascule Rehabilitation
 - Design-Build Completed April 2013
- Port Rail Intermodal Yard
 - Design-Build Substantial Completion January 2015





PORT///A/// TIGER II Grant Overview



Rail Access: Intermodal Rail Reconnection Project



The FEC-Port partnership will allow shippers to reach more than 70% of the U.S. population from Miami within one to four days.

Bascule Rehabilitation & Track Work

- Rail Bascule Rehabilitation Design-Build Procurement
 - Bridge Condition Assessment Late 2010
 - Design-Build Criteria Package, RFP, and Award January 2012
 - Completion April 2013
- Design-Build Scope
 - Completed Mechanical
 - Completed Track-Work
 - Completed Spall & Crack Repair
 - Completed Cathodic Protection Jackets
 - Completed Lead-Base Paint Removal and Paintin



Bascule Rehabilitation & Track Work Pre-Condition



Bascule Rehabilitation & Track Work Pre-Condition





Bascule Rehabilitation & Track Work Pre-Condition



Bascule Span from Below



South side support beam for West Bascule Pier deck adjacent to railway bascule span



Spalling of Concrete Counterweight



Base of south side Bascule Pier Floorbeam and Rocker Bearing Plate



Looking down at corrosion along web and stiffener angles at Main Girder at counterweight location



Corrosion and section loss of top of cover plate at Main Girder at counterweight location

Bascule Rehabilitation & Track Work Pre-Condition



Bascule Pier Common for Highway and Railway Bridge







Bascule Rehabilitation & Track Work Pre-Condition



Timber Ties at Flanking and Bascule Spans



Concrete Curbing at Joints



Timber Ties thru Bolted to Steel Members



Old Rail Timber Ties Supported by Corroded Steel Stringers

PORT/VIA/VIL

Bascule Rehabilitation & Track Work Post-Condition



Lead Base Paint Removal Containment System

Rail Ballast Removal

Bascule Rehabilitation & Track Work Post-Condition



PORT/VIA/VIL

Bascule Rehabilitation & Track Work Post-Condition



Bascule Rehabilitation & Track Work Post-Condition





Electrical Run & Location of Hopkins Frame

> Newly Installed Hopkins Frame

PORT/VIA/VIL

Overall On-Port Rail Plan



Rail Intermodal Yard Plan View

- Design-Build Services Contract (Gonzalez & Sons Equipment / Parsons Brinckerhoff)
- Over 13 acre intermodal yard, with 3 3,000 linear feet of working track
- New CBP Facility including RPMs





PORT/VIA/VIL

Rail Intermodal Yard Typical Section



Rail IY Overview - Description of Work



- Design and Construction
 - 3 Working Tracks -3,000 track feet each and grade crossing panels
 - Pavement (loading apron, track, circulation roadway)
 - Access roadway
 - Security Perimeter Fencing (temporary and permanent)
 - High-mast Lighting
 - Drainage
 - Utility adjustments and Relocations & casing extensions
 - Demolition of existing structures

- Construction of Rail IY completed with Design-Build Team
 - Design and Permitting Phase NTP May 16, 2013
 - Substantial Completion January 2015
 - Project was phased to allow interim rail service begin during construction
- First Loaded Train Service took place on November 1, 2013





QUESTIONS?



THANK YOU!

PORTMAN