

# Memorandum



Date: March 2, 2012

To: Honorable Chairman Joe A. Martinez  
and Members, Board of County Commissioners

From: Carlos A. Gimenez  
Mayor

A handwritten signature in black ink, appearing to read "Carlos A. Gimenez". The signature is fluid and cursive, written over the printed name of the Mayor.

Subject: Correspondence from the Florida Department of Transportation re: Port of Miami Tunnel Project

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Attached please find a progress report from the Florida Department of Transportation (FDOT) regarding the Port of Miami Tunnel (POMT) Project.

I will continue to provide the Board with updates as they become available from the FDOT. Please call me directly should you have any other questions.

c: Gus Pego, FDOT District VI Secretary  
Robert A. Cuevas, Jr., County Attorney  
Charles Anderson, Commission Auditor  
Jack Osterholt, Deputy Mayor  
Bill Johnson, Seaport Director



***Florida Department of Transportation***

RICK SCOTT  
GOVERNOR

1000 NW 111 Avenue  
Miami, Florida 33172-5800

OFFICE OF THE  
SECRETARY

February 20, 2012

The Honorable Carlos Gimenez  
Mayor, Miami-Dade County  
Stephen P. Clark Center  
111 NW 1<sup>st</sup> Street, Suite 2910  
Miami, FL 33128

RE: Port of Miami Tunnel Project  
Combined Monthly Progress Report

Dear Mayor Gimenez:

Enclosed for your information is a copy of the combined December 2011 and January 2012 Progress Report for the Port of Miami Tunnel.

If you or your colleagues have any questions or comments, please feel free to contact me at 305-470-5197 or via email at [gus.pego@dot.state.fl.us](mailto:gus.pego@dot.state.fl.us).

Sincerely,

A handwritten signature in black ink, appearing to read "Gus Pego".

Gus Pego, P.E.  
District Secretary

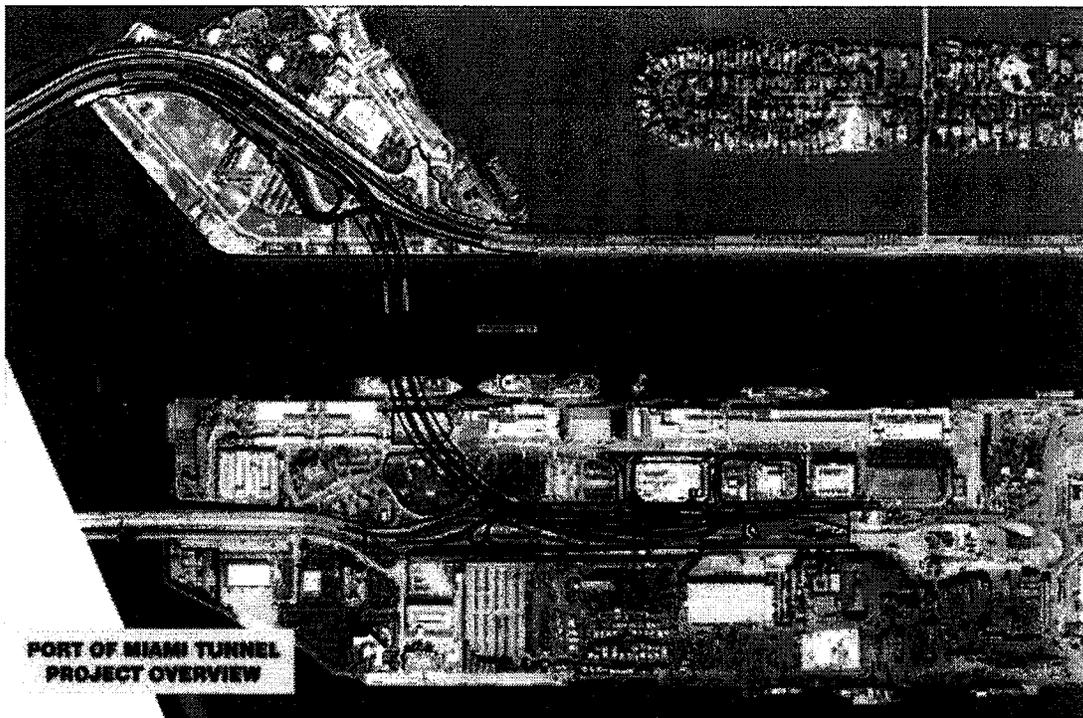
Enclosure

cc: Alina Hudak, Deputy Mayor/County Manager (via email only)  
Jack Osterholt, Deputy Mayor (via email only)  
Bill Johnson, Seaport Director (via email only)



## Port of Miami Tunnel Project

### Combined Monthly Progress Report – December 2011 & January 2012



Port of Miami Tunnel – December 2011 & January 2012 Combined Progress Report

**PROJECT STATISTICS:**

Project Information		Key Dates and Milestones	
Financial Project ID	251156-3-52-01	NTP # 1 – Design	Oct 15, 2009
Contract #	E6F67	NTP # 2 – Construction	May 24, 2010
Owner	FDOT – District 6	Percent Complete/Days Used:	47.5 % 839 OF 1765
Owner’s Engineer (Design)	PB Americas, Inc.	Construction Cost:	\$607 Million
Owner’s CEI Representative	PB Americas, Inc.	Milestone Payment # 1 – design for tunnel	\$20 Million (PAID)
Concessionaire	MAT Concessionaire, LLC	Milestone Payment # 2 – TBM at work in 1 <sup>st</sup> bore	\$40 Million (PAID)
Design/Build Contractor	Bouygues Civil Works Florida (BCWF)	Milestone Payment # 3 – TBM at work in 2 <sup>nd</sup> bore	\$25 Million
Engineer of Record	Jacobs Civil	Milestone Payment # 4 – Substantial completion of MAC	\$15 Million
Maintenance and Operator	Transfield / VMS	Milestone Payment #5– Final Acceptance	\$350 Million
Concession Agreement	35 Years	Construction Substantial Completion	May 15, 2014
Contractual Design and Construction Duration	55 Months	Construction Final Acceptance Completion	Aug. 14, 2014

**CONTRACTS AMENDMENTS**

SA #	Date	Description	Amount	Status
1	10/25/10	Incorporation of Wage Rate Tables	\$0.00	Executed
2	09/07/11	Incorporation of E-Verify Requirements	\$0.00	Executed
3		Alternative Alignment - Single Portal Realignment on Dodge Island (Credit)	(\$2,500,000.00)	Pending
4		MacArthur Causeway Improvements: Bike Lane Extension, U-Turn at Watson Island & Extension of Milling & Resurfacing Limits	\$390,696.83	Pending

**MILESTONE PAYMENTS:**

1. **Milestone No. 1: Completion of Design Work for Tunnel (\$20 Million)**
  - a. Achieved on 9/30/2011
2. **Milestone No. 2: Tunnel Boring Machine at Work in First Bore (\$40 Million)**
  - a. Achieved on 11/19/2011

**SCHEDULE**

Bouygues Civil Works Florida, Inc. (BCWF) has submitted the December 20, 2011 Update and it indicates no delay to Substantial Completion. Mining of the tunnel began on November 7, 2011. The December

## Port of Miami Tunnel – December 2011 & January 2012 Combined Progress Report

Updated Schedule continues to depict the critical work to be the tunnel construction activities of TBM operations, with the Dodge Island SOE and grouting operations on Watson Island and in the Government Cut still considered near critical activities.

### **DESIGN PROGRESS**

#### ***Watson Island***

FDOT reviewed and provided comments for the following design packages:

1. Lighting Plans
2. Lighting Design Analysis Report MacArthur Bridge Aesthetic Lighting
3. Cut and Cover 60% Plans and Calculations

Documents submitted this month that are currently under review:

1. Cut and Cover 90% Plans and Calculations
2. Substation Building Geotechnical Engineering Report
3. MacArthur Bridge Widening - Erection Analysis
4. U-Wall Plans and Calculations (re-submittal)

#### ***Dodge Island***

FDOT reviewed and provided comments for the following design packages:

1. Construction Effects on Structures Analysis Method
2. Roadways Geotechnical Engineering Report
3. SOE – Addendum to Calculations
4. Retaining Walls Addendum to Geotechnical Report

Documents submitted this month that are currently under review:

1. Dodge Island Roadways Geotechnical Engineering Soil Survey Report
2. SOE CSM Wall, Tremie Seal and Tension Elements Structural Calculations (Revised)
3. Bridge and Retaining Walls – Addendum to Geotechnical Engineering Report
4. SOE, U-Wall and Cut and Cover Tunnel Addendum to Geotechnical Engineering Report
5. Dodge Island Roadways Water Main Utility Relocation Plans Phase 4
6. Construction Effects on Structures – Analysis Method (re-submittal)
7. Operational Facilities – Geotechnical Engineering Report
8. Bridge Final Plans and Calculations
9. Retaining Wall Final Plans and Calculations (re-submittal)

#### ***Tunnel Design***

FDOT reviewed and provided comments for the following BCWF design packages:

1. TBM Operations – Tail Void Grouting Mix Design
2. TBM – Annular Void Grouting
3. Formation Grouting : Dodge Island Hurricane Safe Harbor Plan
4. Formation Grouting: Mix Design Characteristics & Properties Test Results
5. Formation Grouting: Preconstruction Test from Batching plant - Grout Mix
6. Tunnel Works Quality Control Plan
7. Formation Grouting Layer 7 – Watson Island On-Shore Method Statement
8. Formation Grouting Layer 7 – Channel Off-Shore Method Statement
9. Formation Grouting Layer 7 – Watson Island Batching Plant Elevation Layout
10. U-Wall, Cut and Cover Tunnels and Cross Passages Durability Design Report

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11. Formation Grouting Report Face Stability
12. Grout Testing Program Report
13. Formation Grouting General Method Statement
14. Formation Grouting Inspection and Testing Plan
15. Formation Grouting Utilities Interferences with Grouting Zones
16. Formation Grouting General Design Layout
17. Tunnel Lining Segments – Assessment of Segments Cast Prior to 08/15/11
18. Cross Passages 90% Plans for Cross Passage Nos. 1 to 5
19. Cross Passages Plans Bottom Slab Reinforcement for Cross Passage Nos. 1 to 5
20. Cross Passages Plans RC Frame Reinforcement for Cross Passage Nos. 1 to 5
21. Formation Grouting Layer 7 – Grout Testing Report – Cross Passages Nos. 2 and 3
22. Formation Grouting Report Face Stability and TBM Steering Report
23. Formation Grouting Report Cross Passages and TBM Intervention

The following BCWF documents were submitted in January:

1. Cross Passages Temporary Support and Permanent Liner Design Calculation Note
2. Cross Passages and Bored Tunnel: Break Out Connections Calculation Note
3. Cross Passages 90% Plans – Cross Passage Nos. 1 through 5
4. Cross Passages 90% Plans Bottom Slab Reinforcement for Cross Passage Nos. 1 through 5
5. Cross Passages 90% Plans RC Frame Reinforcement for Cross Passage Nos. 1 through 5
6. Tunnel Soil Management Status
7. Formation Grouting – Face Stability and TBM Steering Report
8. Formation Grouting – Cross Passages and TBM Intervention
9. U-Wall, Cut and Cover Tunnels and Cross Passages Durability Design Report
10. Bored Tunnel Dodge Island Settlement Assessment Calculation Note (re-submittal)

### ***Other documents submitted and reviewed:***

- Tunnel Soil Management Status Report
- Concept of Operations Report
- Health and Safety – Fire Protection and Prevention Plan
- Concept of Operations Report
- Geotechnical Instrumentation Weekly Report
- Tunnel Soil Management Status Report
- Instrumentation Monitoring Monthly Report
- Dodge Island SOE – Summary of Production Installation and Proof Performance
- Tunnel Access Requirements

## **CONSTRUCTION PROGRESS**

For the months of December 2011 & January 2012, BCWF performed the following major construction activities:

### ***Watson Island***

1. Completed 90% of decorative lighting on Parrot Jungle Trail.
2. Completed 90% of MSE Wall along eastbound MacArthur Causeway.

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3. Continue construction of MSE wall for tunneling operations in shallow soil area located in the MacArthur Causeway median (90% Complete).
4. Begin rework of retention ponds between the eastbound entrance and exit ramps for Parrot Jungle Trail.

### ***MacArthur Bridge***

1. Began delivery of bridge beams.
2. Continued demolition of the existing pier stub walls (90% completed).
3. Continued construction of pier columns (90% completed).

### ***Dodge Island***

1. Completed traffic switch on new South Cruise Blvd.
2. Continue construction of permanent South Cruise Blvd.
3. Begin construction of Europe Way.
4. Begin construction of eastbound roadway included in secondary inspection area at CBP.
5. Complete lead track railroad construction.
6. Continue sanitary sewer relocation and removal.
7. Continue WASD water main installation.

### ***Underground, Tunnels, Cross Passages & Formation Grouting***

1. Type 2 Tension Piles were completed on Dodge Island.
2. TBM mining continued, excavating approximately 754 LF of the eastbound tunnel by 1/31/12.
3. Grouting continued, injecting approximately 22,108 CY of grout in 332 holes by 1/31/12.
4. Ground improvement continued for Cross Passages 4.
5. Shallow Soil Mixing (SSM) and Barrett installations continued on Dodge Island.
6. Excavation of the receiving pit began on Dodge Island.

### ***Precast Yard***

1. Concrete segment manufacturing continued, casting approximately 4437 concrete segments (about 463 rings) by 1/31/12.

## **ANTICIPATED CONSTRUCTION PROGRESS FOR FEBRUARY 2012**

For the month of February, BCWF has scheduled the following major construction activities:

### ***Watson Island***

1. Continue construction of MSE wall for tunneling operations in shallow soil area located in the MacArthur Causeway median.
2. Complete construction of retention ponds A, B, C.
3. Continue installation of permanent highway lighting on MacArthur Causeway Eastbound.

### ***MacArthur Bridge***

1. Begin setting bridge beams.
2. Continue construction of substructure for remaining piers (columns & caps).
3. Complete demolition of pier column stubs.

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### ***Dodge Island***

1. Continue construction of Europe Way.
2. Continue construction of new permanent South Cruise Blvd. (Tropic Dr.) from Atlantic Way to Panama Way.
3. Continue construction work associated with Detour 3 on east end of Dodge Island.
  - a. Continue utility relocations for detour, including High Mast lighting.
4. Continue installation of new sanitary sewer line.
5. Continue removal of existing sanitary lines placed out of service.
6. Complete Phase 2 WASD water main installation.

### ***Underground, Tunnels, Cross Passages & Formation Grouting***

1. Continue eastbound tunnel mining.
2. Continue Formation Grouting on Watson Island and in Government Cut channel.
3. Continue shallow soil mixing (SSM) on Dodge Island.
4. Continue ground improvement for Cross Passage 4.
5. Continue portal excavation on Dodge Island.

### ***Precast Yard***

1. Continue casting concrete segments.

### **DBE/OJT**

#### ***DBE***

The last Anticipated DBE Participation Statement BCWF has a goal of 8.13%. As of January 2012, no additional payments have been entered into the tracking system.

#### ***OJT***

The OJT Program at this time has 5 graduated trainees and 12 are in the process of being sent to FDOT District Office for graduation approval. The project also has 11 trainees pending for approved enrollment.

### **PUBLIC INFORMATION/COMMUNITY AWARENESS**

The Concessionaire/Contractor continues to sponsor vendor and contractor inclusion with "Operation 305" outreach efforts with organizations such as the Miami-Dade Minority Chamber, American-Haitian Chamber of Commerce, Community Small Business Enterprise of Miami-Dade and many other organizations.

As of January, the number of companies/vendors with contracts total 588. Of those 588 companies that have or are currently doing business with the tunnel project, the total amount that has been awarded is \$234M, \$50M for tunnel specialized work and \$184M for non-tunnel related work. Of the \$184M, \$110M or 60% has gone to local, Miami-Dade County firms.

Currently, the reported DBE Participation is \$26.4M or 101.78% of the contracted project goal. To date the POMT Project has let contracts totaling \$24.3M with DBE companies. As of November, total payments made to participating DBE subcontractors total \$14.1M or 53.7% of the contract payment goal.

## Port of Miami Tunnel – December 2011 & January 2012 Combined Progress Report

The project's outreach efforts have generated a total of 4,142 people who have worked on the Port of Miami Tunnel Project since inception. This total number includes direct hires by the design-build contractor Bouygues Civil Works Florida (BCWF) as well as those persons working on the project through subcontractors retained by BCWF.

Currently, each person working on this project is being counted and tracked via the Certified Payroll as required by the Florida Department of Transportation (FDOT). Recruitment and hiring from BCWF continues each month. As of November 30th, the project peaked at 411 employees, of which 136 are office staff and 275 are workers. To date, those direct hires have yielded 86% of the workforce from Miami-Dade County.

Meetings with Miami-Dade County, City of Miami and City of Miami Beach Commissioners continue on an individual and collective basis.

A project information kiosk was installed at the lobby of the City of Miami Riverside Center and a second kiosk is scheduled to be installed during the first week in February at the Miami-Dade County Stephen P. Clark Center. Coordination with the Miami-Children's Museum is ongoing so the kiosk can be placed inside the museum.

Union inclusion has been completed with the Laborers International and the South Florida Labor Council. IBEW, AFL-CIO and the Operators are all now part of the POMT project. The project's job website, [www.build305.com](http://www.build305.com), is up and running.

The Concessionaire/Contractor sponsored the following events: Virginia Key Larry Little Legends Golf Tournament (12/2); Annual Miami-Dade Chamber Gala (12/3); National Association of Women in Construction Scholarship Fundraiser (12/3); Miami Outboard Club Boat Day Parade and Gala (12/18); Dr. Martin Luther King Jr. Unity Scholarship Breakfast, hosted by the Miami-Dade County Public Schools 5000 Roles Models of Excellence Project (1/16).

The Concessionaire attended and participated in the following meetings: Miami Beach Transportation Committee (12/12 and 1/9); Legacy's Annual Black Business Development Symposium (1/12); TEAMFL's (Transportation and Expressway Authority Membership of Florida) Quarterly Conference (1/19 and 1/20) and gave a presentation on "Conducting outreach in a public-private partnership project"; and presented a project update to the Virginia Key Lions Club (1/26).

The Concessionaire/Contractor had the Travel Channel shoot the site on January 24 for one of their shows called "Off-Limits".

### **PROJECTED COMMUNITY OUTREACH / RECRUITMENT EFFORTS:**

The Concessionaire & Department PIO will attend the Miami Beach Transportation Committee on February 6.

The Concessionaire will give a project update at the French American Chamber of Commerce Luncheon on February 16.

The Concessionaire/Contractor will follow-up with all pre-qualified vendors during the month of February.



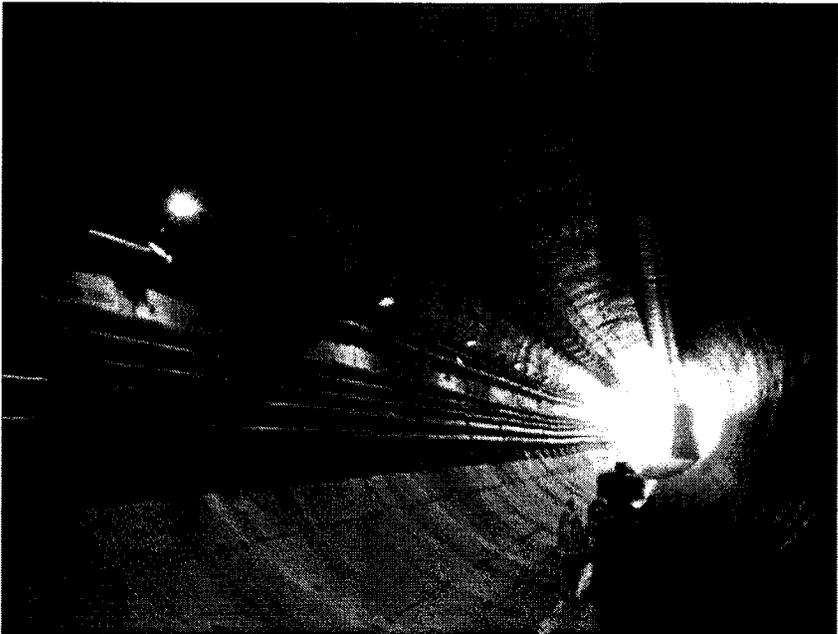
1. Soil Conditioning plant on TBM



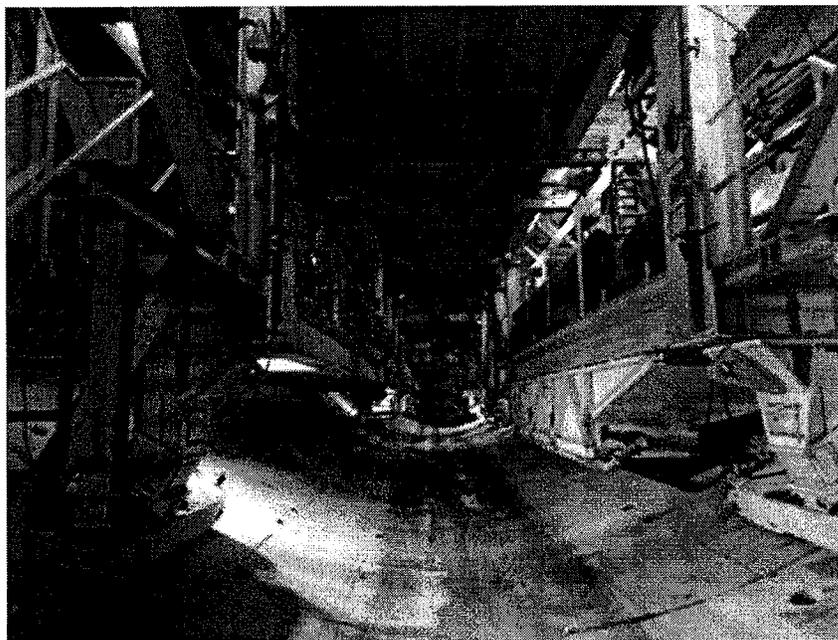
2. Segment feeder on TBM.



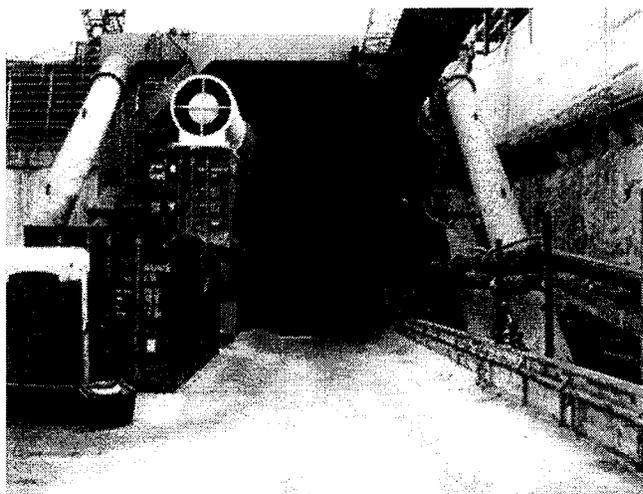
3. Dodge Island: Shallow soil mixing operation, support of excavation box.



4. Tunnel segments installed.



5. TBM in tunnel.

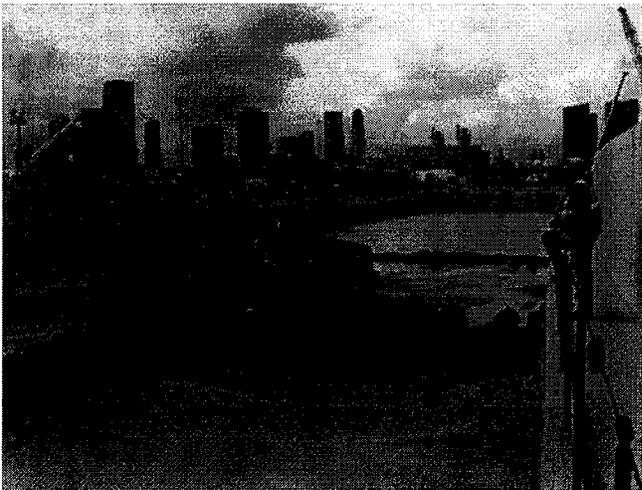


6. Watson Island Portal Entrance.

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7. Europe Way Construction.



8. Dodge Island Portal excavation.