Memorandum

MIAMI-DADE COUNTY

Date: August 1, 2012

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

From: Carlos A. Gimenez
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

June 29, 2012

The Honorable Carlos A. Gimenez
Mayor, Miami-Dade County
Stephen P. Clark Center
111 NW 1st 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 April and May 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.

Sincerely,

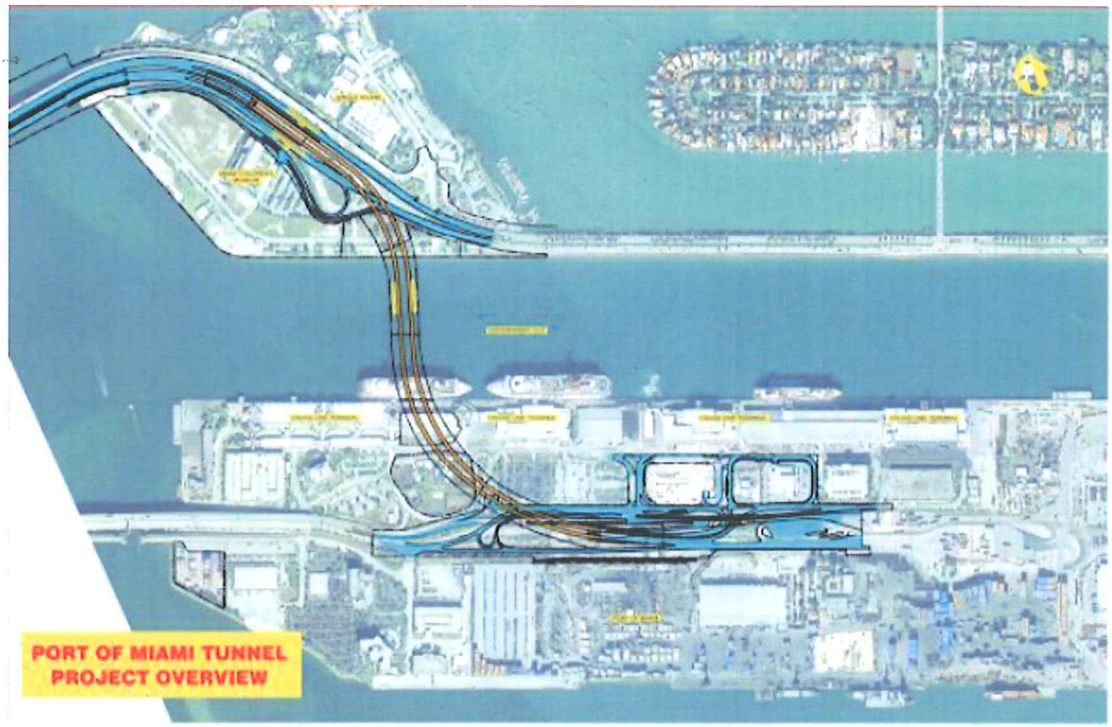
Gus Pego, P.E.
District Secretary

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 – April & May 2012



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:**	54.4 % 960 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 1st bore**	$40 Million (PAID)
Design/Build Contractor	Bouygues Civil Works Florida (BCWF)	**Milestone Payment # 3 – TBM at work in 2nd 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 (Projected)**	June 11, 2014
Contractual Design and Construction Duration	55 Months	**Construction Final Acceptance Completion (Projected)**	September 10, 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
5		Relief Event No. 3: MacArthur Bridge Aluminum Bridge Handrail Retrofit	$337,959.59	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 April 20, 2012 Update and it indicates a 27 calendar day delay to Substantial Completion (projected date: 6/11/2014). BCWF has stated that the delay is a result of the TBM mining being halted at STA 487+57 while a CSM wall was installed to allow for the unscheduled maintenance of the cutter head to occur. The April Updated Schedule continues to depict the critical work to be the tunnel construction activities of TBM operations, with the development of the Dodge Island portal a near critical activity. BCWF has indicated the breakout of the TBM on Dodge Island will occur late July to early August; the portal needs to be complete by then to accommodate the TBM turn around and re-assembly in order to begin the westbound tunneling. BCWF will continue its efforts to mitigate and recover any current delays.

DESIGN PROGRESS FOR APRIL & MAY 2012

The following is a summary of the design documentation received and reviewed during the months of April & May:

Watson Island

FDOT reviewed and provided comments for the following design packages:

1. Lighting Design Analysis Report – MacArthur Bridge Aesthetic Lighting System
2. Portal Structures (U-Wall and Cut and Cover) Mass Concrete Plan
3. MacArthur Causeway Aesthetic Lighting Plans were released for construction
4. MacArthur Causeway Sanitary Sewer Utility Relocation Plans were released for construction
5. Watson Island Access Ramp TCP Revision 01 was released for construction

Documents submitted this month that are currently under review:

1. U-Walls and Cut and Cover Concrete Pavement 90% Plans
2. Watson Island Roadways: MacArthur Causeway Bridge Widening Plans- Superstructure Package (RFC Rev.02)

Dodge Island

FDOT reviewed and provided comments for the following design packages:

1. Dodge Island Construction Effects on Structures Memo and Recommendations – Shed No. 2 and Seawall
2. Dodge Island Construction Effects on Structures Recommended Monitoring Response
3. Dodge Island Bored Tunnel Geotechnical Instrumentation Report, Plans and Specs
4. Signing and Pavement Plans
5. Retaining Walls Plans and Calculations
6. Sign Structures Plans
7. Bridge 90% Plans and Calculations
8. Water Main Utility Relocation Plans Phase 4
9. Technical Special Provision – Portland Cement Treated Material and Dodge Island Roadway Plans – Package 2 Rev. 4 were released for construction

Documents submitted this month that are currently under review:

1. Dodge Island SOE: Summary of Tension Element Installation Phase 1
2. Operations and Maintenance Building Permit Set
3. Roadway Plans – Truck U-Turn/POV Exit Gate Improvements (re-submittal)
4. Water Main Utility Relocation Plans, Phase 4
5. U-Walls and Cut and Cover Concrete Pavement 90% Plans
6. Roadways – North POM Facilities Relocation Plans
7. Roadways Package 2, Revision 04
8. Sign Structures Final Plans
9. Overhead Sign Structures Calculation Notes
10. Lighting Plan (re-submittal)
11. Lighting Design Analysis Report
12. Portal Structures Generalized Plan of Action (submitted for information)

Tunnel Design

FDOT reviewed and provided comments for the following design packages:

1. Grout testing Program Report: Formation Grouting for EPB tunneling
2. Tunnel Lining Plans Revision 01
3. Formation Grouting Report TBM Intervention – Additional Intervention Plugs
4. Tunnel Roadway Plans
5. Tunnel Works Quality Control Plan
6. Precast Segment Repair – Post Installation
7. Raft Slab – Mass Concrete Plans
8. Technical Special Provision Tunnel Ballast was released for construction.
9. Bored Tunnel Lining Plans Revision 01 was released for construction.

Documents submitted this month that are currently under review are:

1. Dodge Island – Bored tunnel Geotechnical Instrumentation Report, Specs and Plans
2. Portland Cement Material (Plant Mixed) Tunnel Ballast
3. GCG Interpretation of Cone Penetration Test Layers 57
4. GCG Soil Conditioning Trials – layers S1 to S6 and S7 silts
5. Watson Island – Formation Grouting – Sonic Cores and Camera Survey
6. Cutterhead Work Report – Disc Changes
7. Watson Island – GWC for EPB Tunneling Grouting Trial (Secondary Grouting) and Verification Testing
8. Dodge Island Raft Slab Design - Construction Loads, Calculations and Plans
9. Tunnel Rigid Pavement Design Report
10. Miami Dade County WASD/PERA Tunnel Pump-out Discharge System Permit Application
11. Fire Durability Technical Report
12. Tunnel Precast Segment Repair Post Installation (re-submittal)
13. Bored Tunnel SINTEF Test Report (submitted for information only)
14. Tunnel Subsurface Method Plan (re-submittal)
15. Dodge Island Construction Effects on Structures – Shed No. 2 and Seawall (re-submittal)

16. Formation Grouting Layer 7: Dodge Island On-Shore Method Statement (submitted for information)
17. Health and Safety Plan (update)
18. Hurricane Plan (update)
19. Emergency Action Plan (update)

Permit Applications:

- Watson Island Substation Site – Private Sanitary Sewer Connection to the Public Sewer – FDEP/ Miami-Dade PERA Permit Application
- Dodge and Watson Islands – Operation and Maintenance Building Permit Set
- Watson Island Drainage Stations – FDEP Watson Island Substation Site – Public Sanitary Sewer Permit Application
- Miami-Dade County WASD/PERA – Tunnel Pump-out Discharge System Permit Application

CONSTRUCTION PROGRESS FOR APRIL & MAY 2012

Watson Island

1. Retention ponds near on ramp and exit ramp to Parrot Jungle Trail are complete pending erosion repairs/hydro seeding.
2. Continue construction of MSE wall for tunneling operations in shallow soil area located in the MacArthur Causeway median.
3. Energized sections permanent highway lighting on MacArthur Causeway (for use as temporary lighting).

MacArthur Bridge

1. Completed setting beams for phase 1 bridge construction (thru pier 15).
2. Completed demolition of the existing pier stub walls.
3. Completed phase 1 construction of pier columns (thru pier 15).
4. Began bridge deck demolition.
5. Began forming for diaphragms.

Dodge Island

1. Lead track railroad construction has been completed; PortMiami accepted rail clips at splice locations as installed.
2. Continued construction of Europe Way, Atlantic Way and Panama Way.
3. Continued construction roadway at the secondary inspection area at Customs Border Patrol.
4. Implemented Detour 3 on 5/20/2012.
5. Continued construction of permanent South Cruise Blvd.
6. Continued sanitary sewer relocation and removal.
7. Completed 95 % of phase 2 WASD water main installation.

Underground, Tunnels, Cross Passages & Formation Grouting

1. TBM mining continued with the excavation of approximately 2656 LF of the eastbound tunnel by 5/31/12.
2. Formation grouting continued, injecting approximately 50,941 CY of grout in 868 holes by 5/31/12.

3. Ground improvement continued near Cross Passage 5.
4. Concrete raft slab for the portal on Dodge Island.

Precast Yard

1. Concrete segment manufacturing continued, casting approximately 6829 concrete segments (about 854 rings) by 5/31/12.

ANTICIPATED CONSTRUCTION PROGRESS FOR JUNE 2012

For the month of June 2012, BCWF has scheduled the following major construction activities:

Watson Island

1. Complete installation of permanent highway lighting on Ramp C2.
2. Begin re-lamping of WB MacArthur Causeway permanent lighting.
3. Re-grading/repairing erosion damage at retention ponds WA & WB.

MacArthur Bridge

1. Continue bridge deck demolition in preparation of bridge widening.
2. Begin installation of diaphragms.

Dodge Island

1. Continue construction of Europe Way, Atlantic Way and Panama Way.
2. Continue construction of new permanent South Cruise Blvd. (Tropic Dr.) from Atlantic Way to Panama Way.
3. Continue development the secondary inspection area at CBP.
4. Continue construction of South Cruise Blvd. Detour 5.
5. Complete Phase 2 WASD water main tie-ins, submit As-Built plans and get Dept. of Health approval.

Underground, Tunnels, Cross Passages & Formation Grouting

1. Continue eastbound tunnel mining.
2. Continue formation Grouting on Dodge Island and in Government Cut channel.
3. Ground improvement near Cross Passage 5.
4. Prepare Dodge Island Portal for TBM break-out.
5. U-Wall structure at Watson Island Portal.

Precast Yard

1. Continue casting concrete segments.

EEO/DBE/OJT

EEO

A Compliance Meeting was held on May 16th between the CEI, FDOT, MAT and MOD Space representatives in order to discuss all the issues pending to be resolved. It was agreed that Mod Space will submit missing documentation on or before June 15th.

DBE

An audit was performed on DBE, Payrolls and EEO and closeout meeting is scheduled for 6/29/12. Anticipated DBE Participation Statement, Revision No. 11 was received from BCWF. As of 3/16/12 the dollar amount subcontracted to DBE's is: $27,442,913.47 (8.43%).

The DBE Section of the Compliance Status Report has been corrected and updated and will be submitted to the FDOT for approval.

OJT

As of May 29, 2012, Twenty Two Trainees (30% of project goal) have graduated from FDOT's Training Program. There are 6 Active Trainees currently on the project. Additionally, 6 more Trainees have been approved for enrollment and 7 prospective candidates for the program are scheduled to be interviewed in June.

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 early March 2012, 638 firms were awarded contracts totaling $280,676,607. The tunnel specialty contracts equates to $53,283,734. Of the remaining $227,437,873 in contracts, a total of 293 contracts or $152,311,936 has been awarded to local businesses.

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). As of May 31st, the project peaked at 410 direct hires by BCWF, of which 141 are office staff and 269 are craft workers. Based on Certified Payroll Records, the average number of craft workers currently active on the project is 116, bringing the average number of total persons at work at the Port of Miami Tunnel Project in May 2012 to 526.

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

The Concessionaire/Contractor has been conducting site tours with various elected/appointed officials.

The Concessionaire/Contractor gave a project update at the following: Coral Reef Yacht Club Monthly meeting (4/19/12); Palm-Hibiscus-Star Island Homeowners Association General Meeting (4/24/12); and project update for cruise and cargo stakeholders at Port Miami (5/31/12)

The FDOT & Concessionaire attended the Miami Beach Transportation Committee on April 2 and May 7.

The Concessionaire and Contractor participated and/or sponsored the following: Annual Beacon Council Awards Ceremony in April; a project exhibit titled "Tunnel Vision" at the Coral Gables Museum for the whole month of May; Commissioner Edmonson's Small Business and Employment Expo (5/2/12); PortMiami's PUMA Volvo Race event (5/16/12); Miami-Dade County's 9th Annual Blue Water Fishing Classic (5/21/12); Coral Gables Museum Exhibit Partners Reception (5/21/12); project lecture for the

community at the Coral Gables Museum (5/23/12); French American Chamber of Commerce's Annual Gala (5/24/12); Booker T. Engineering Internship Orientation (5/29/12).

PROJECTED COMMUNITY OUTREACH / RECRUITMENT EFFORTS FOR MONTH OF JUNE:

The Concessionaire/Contractor is sponsoring the Mayor's Ball on June 2.

The Concessionaire is sponsoring the Miami Beach Chamber Gala on June 2.

The Concessionaire will attend the Miami Beach Transportation Committee on June 4.

The Concessionaire will sponsor the Fifty Most Powerful and Influential Black Business Leaders of 2012 on June 8.

The Concessionaire/Contractor will sponsor the World Trade Center Annual Awards Dinner on June 14.

The Concessionaire/Contractor will continue conducting site tours with elected/appointed officials, as well as engineering groups.

Figure 1. Dodge Island SOE after completion of dewatering operation.

Figure 2. Watson Island tunnel portal development and spoil management/water separation facility.

Figure 3. Intervention plug installation at Cross passage 4 on Dodge Island.

Figure 4. Formation grouting in the Government Cut.

Figure 5. Watson Island looking East

Figure 6. Dodge Island looking West

Figure 7. Eastbound Tunnel and TBM

Figure 8. Dodge Island MSE Wall 11

Figure 9. Dodge Island Detour 3 at Panama Way