

Date: July 17, 2012

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

From: Carlos A. Gimenez  
Mayor 

Subject: Resolution approving Amendment Number Two to Miami-Dade Water and Sewer Department Contract No. E07-WASD-09, a non-exclusive Professional Services Agreement with AECOM Technical Services, Inc., which increases total compensation by \$1,100,000, from \$7,150,000 to \$8,250,000

Agenda Item No. 8(O)(1)

Resolution No. R-641-12

**RECOMMENDATION**

It is recommended that the Board of County Commissioners (Board) approve Amendment Number Two to Miami-Dade Water & Sewer Department (WASD) Contract No. E07-WASD-09, a non-exclusive Professional Services Agreement with AECOM Technical Services, Inc., formerly known as Earth Tech Consulting, Inc. The amendment increases total compensation by \$1,100,000 from \$7,150,000 to \$8,250,000 for additional engineering services to replace defective segments of the 54-inch sewer pipe installed from Virginia Key to Fisher Island.

Amendment Number Two for Contract No. E07-WASD-09 is related to another item on this agenda, Amendment Number One for Contract No. DB10-WASD-01 ESP with Ric-Man Construction, Inc. Amendment Number One also increases total compensation by \$22,543,550.26, from \$54,892,728.57 to \$77,436,278.83, and extends the contract term by 210 days, from January 17, 2013 to August 15, 2013. Amendment Number One is for the replacement of the existing 54-inch sewer force main with a 60-inch sewer force main from Fisher Island across Government Cut to the point of interconnection to the City of Miami Beach's 54-inch sewer force main. The commonality between both agenda items is the existing condition of various segments of the 54-inch sewer force main which are in imminent danger of failure.

**SCOPE OF AGENDA ITEM**

The item has county-wide significance although the sewer facilities to be constructed are located in Districts 5 and 7.

**FISCAL IMPACT/FUNDING SOURCE**

Amendment Number Two will increase total compensation by \$1,100,000 and is funded by a combination of WASD's Water Renewal and Replacement Fund, Wastewater Plant Expansion Fund and Revenue Bonds. The term of Amendment Number Two will expire on December 17, 2018 as determined by Amendment Number One which was approved by the Board on May 4, 2010 authorizing an extension to the original agreement.

**TRACK RECORD/MONITOR**

WASD's Government Cut Project Manager, Eduardo A. Vega, P.E., will monitor this agreement.

## BACKGROUND

On December 2, 2008, the Board approved Resolution No. R-1349-08 awarding Contract No. E07-WASD-09 to AECOM Technical Services, Inc. for total compensation of \$4,400,000. The scope of work provided for a design criteria package including permitting, surveying, land rights acquisition, procurement, and post design services during construction of a utility tunnel to encase the replacement of the 54-inch sewer force main crossing Government Cut from Miami Beach to the County's Central District Wastewater Treatment Plant on Virginia Key, and for the replacement of a 20-inch water main crossing Fisherman's Channel from Port Island to Fisher Island. The existing 54-inch sewer force main transmits all sewage collected from Miami Beach, Surfside, Bal Harbour, Bay Harbor Islands and Fisher Island for treatment and disposal.

Both pipelines were in conflict with the proposed dredging route for the Miami Harbor Federal Navigation Project which will allow large container vessels to access the Port of Miami in 2014. The initial deadline to complete the replacement of both pipelines was December 2012.

By 2009, AECOM had completed almost 95% of the design criteria services to replace the 20-inch water main, and a utility tunnel to encase the 54-inch sewer pipeline from Miami Beach to Virginia Key, see the red line on Exhibit A, as attached. As such, the 20-inch water main was replaced with a new 24-inch water main and was placed into service in April 2012. However, on-going permitting delays and difficulties obtaining the necessary easements expeditiously for the proposed utility tunnel led WASD to decide to revise the original design criteria of the project for the 54-inch sewer force main. This was done to make sure the Department's projected project completion date for the replacement of the 54-inch sewer pipeline is met. The revision eliminated the design criteria for the utility tunnel from Miami Beach to the County's Central District Wastewater Treatment Plant at Virginia Key with a new design criteria package that runs the 54-inch sewer force main only from Fisher Island to south of Miami Beach, see the green line on Exhibit A. On May 4, 2010, the Board approved Resolution R-511-10 authorizing Amendment Number One to the original contract which provided for total additional compensation in the amount of \$2,750,000 to modify the design criteria package as described directly above and to extend the agreement for a period of four years to December 17, 2018.

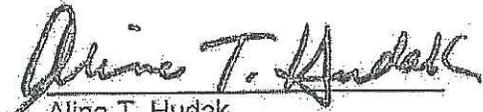
During 2010, AECOM Technical Services Inc. completed the modification of the design criteria package for the relocation of the sewer force main and the project was successfully bid in early 2011. The construction of the replacement sewer force main is now anticipated to be completed by July 2013, which is compatible with the Miami Harbor Federal Navigation Project schedule.

Since the 54-inch sewer force main had not yet been replaced, in December of 2011, when specialized testing equipment became available, WASD had the entire length of the active pipe inspected from the Central District Wastewater Treatment Plant at Virginia Key to the point of interconnection to the City of Miami Beach's sewer force main. The inspection revealed that numerous segments of the 54-inch sewer force main pipe are in a severely distressed condition and in imminent danger of failure. This condition assessment requires yet another revision to the design criteria package to replace the 54-inch sewer force main with a 60-inch force main from Virginia Key to Fisher Island. Amendment Number Two increases total compensation by \$1,100,000 to provide the services needed for the replacement of this portion of the force main. This increase will allow AECOM Technical Services, Inc. to expeditiously prepare the design-build criteria package needed to issue a request for bids for a design-build contract to replace this portion of the defective 54-inch sewer force main with a 60-inch sewer force main which will also accommodate growth, see the yellow line on Exhibit A.

Honorable Chairman Joe A. Martinez  
and Members, Board of County Commissioners  
Page 3

The Community Business Enterprise goal of 26% was established as a part of the original contract and Amendment Number One and to date AECOM Technical Services, Inc. has complied with all the threshold requirements and the participation goals. The 26% CBE goal will also be applied to the additional compensation in Amendment Number Two.

Approval of this amendment will further expedite the replacement of the last segment of the high risk pipeline from Miami Beach to the Central District Wastewater Treatment Plant at Virginia Key.

  
Alina T. Hudak  
County Manager/Deputy Mayor

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# MEMORANDUM

(Revised)

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

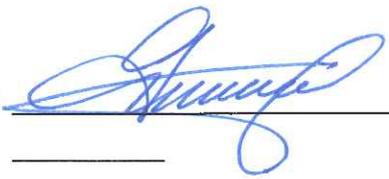
**DATE:** July 17, 2012

**FROM:** R. A. Cuevas, Jr.  
County Attorney

**SUBJECT:** Agenda Item No. 8(0)(1)

Please note any items checked.

- "3-Day Rule" for committees applicable if raised
- 6 weeks required between first reading and public hearing
- 4 weeks notification to municipal officials required prior to public hearing
- Decreases revenues or increases expenditures without balancing budget
- Budget required
- Statement of fiscal impact required
- Ordinance creating a new board requires detailed County Manager's report for public hearing
- No committee review
- Applicable legislation requires more than a majority vote (i.e., 2/3's \_\_\_\_, 3/5's \_\_\_\_, unanimous \_\_\_\_ ) to approve
- Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

Approved  Mayor  
Veto \_\_\_\_\_  
Override \_\_\_\_\_

Agenda Item No. 8(0)(1)  
7-17-12

RESOLUTION NO. R-641-12

RESOLUTION APPROVING AMENDMENT NUMBER TWO TO THE NON-EXCLUSIVE PROFESSIONAL SERVICES AGREEMENT WITH AECOM TECHNICAL SERVICES, INC. TO PROVIDE ADDITIONAL ENGINEERING SERVICES RELATING TO THE 54-INCH SANITARY SEWAGE FORCE MAIN BETWEEN VIRGINIA KEY AND FISHER ISLAND; INCREASING TOTAL COMPENSATION BY \$1,100,000 MILLION FROM \$7,150,000 TO \$8,250,000 MILLION; AND AUTHORIZING THE COUNTY MAYOR OR DESIGNEE TO EXECUTE SAME AND EXERCISE THE PROVISIONS CONTAINED THEREIN

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board hereby approves Amendment Number Two to the non-exclusive professional services agreement with AECOM Technical Services, Inc., increasing total compensation by \$1,100,000 million from \$7,150,000 to \$8,250,000 million to provide additional engineering services for the preparation of the design-build criteria package for the replacement of the defective segments of the 54-inch sanitary sewage force main between Fisher Island and the Central District Wastewater Treatment Plant at Virginia Key for the Miami-Dade Water and Sewer Department, in substantially the form attached hereto and made a part hereof; and authorizing the County Mayor or Mayor's designee to execute same and exercise the provisions contained therein for and on behalf of Miami-Dade County, Florida.

The foregoing resolution was offered by Commissioner **José "Pepe" Diaz**, who moved its adoption. The motion was seconded by Commissioner **Sally A. Heyman** and upon being put to a vote, the vote was as follows:

	Joe A. Martinez, Chairman	aye	
	Audrey M. Edmonson, Vice Chairwoman	aye	
Bruno A. Barreiro	aye	Lynda Bell	aye
Esteban L. Bovo, Jr.	aye	Jose "Pepe" Diaz	aye
Sally A. Heyman	aye	Barbara J. Jordan	aye
Jean Monestime	aye	Dennis C. Moss	aye
Rebeca Sosa	aye	Sen. Javier D. Souto	aye
Xavier L. Suarez	absent		

The Chairperson thereupon declared the resolution duly passed and adopted this 17<sup>th</sup> day of July, 2012. This resolution shall become effective upon the earlier of (1) ten (10) days after the date of its adoption unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this Resolution and the filing of this approval with the Clerk of the Board.

MIAMI-DADE COUNTY, FLORIDA  
BY ITS BOARD OF  
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

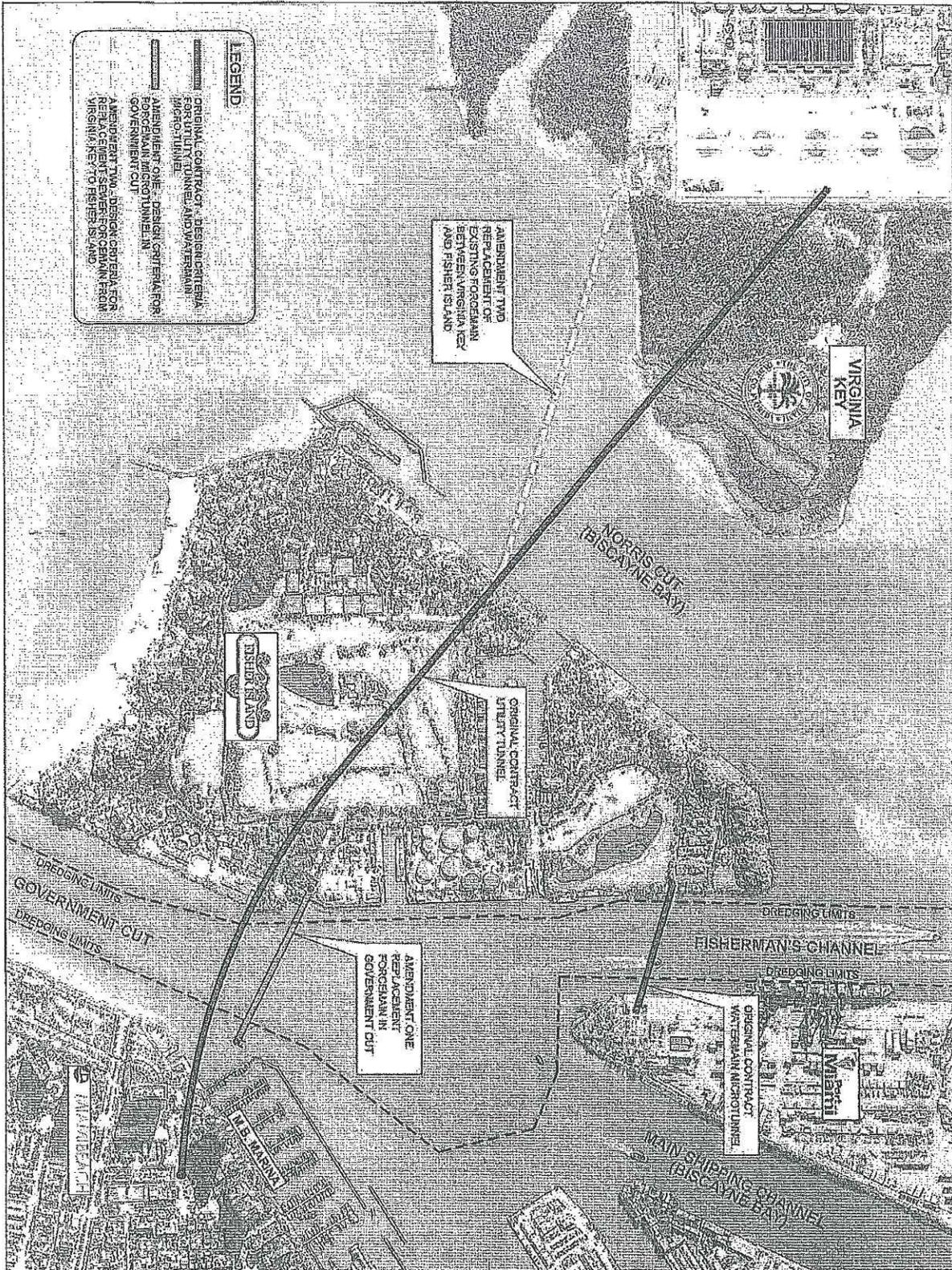


By: **Christopher Agrippa**  
Deputy Clerk

Approved by County Attorney as  
to form and legal sufficiency.

*HNG/SED*

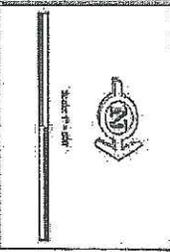
Henry N. Gillman



**EXHIBIT 'A'**  
**AMENDMENT NUMBER TWO**  
**SELECTED FM AND WM ALIGNMENTS**

MAY 25, 2012

**MIAMI-DADE COUNTY**  
**WATER & SEWER DEPARTMENT**  
*Designs, Excavation, Drilling, Staff*



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**AMENDMENT NUMBER TWO**  
**Project No. E07-WASD-09**  
**AECOM TECHNICAL SERVICES, INC.**

Design Criteria for a 60-inch sanitary sewage force main from the Central District Wastewater Treatment Plant to Miami Beach and Design Criteria for the replacement for the replacement of a 20-inch water main from Port Island to Fisher Island

**Scope of Work for Amendment Number Two**

Modify the design criteria package for the relocation of the 54-inch sanitary sewage force main between Virginia Key and Fisher Island

**BUDGET PROJECT AND  
DESCRIPTION:**

9650241 – Central Miami-Dade Wastewater  
Transmission Mains and Pump Stations Improvements  
9654041 – Central Miami-Dade Water Transmission  
Mains Improvements

**WASD  
DIRECTOR:**

  
\_\_\_\_\_  
JOHN W. RENFROW, P.E.                      DATE

**BUDGET APPROVAL  
FUNDS AVAILABLE:**

  
\_\_\_\_\_  
OMB DIRECTOR                                      6/29/12  
DATE

**APPROVED AS TO  
LEGAL SUFFICIENCY:**

  
\_\_\_\_\_  
COUNTY ATTORNEY                                      6/29/12  
DATE

AMENDMENT NUMBER TWO  
TO  
NON-EXCLUSIVE PROFESSIONAL SERVICES AGREEMENT  
BETWEEN MIAMI-DADE COUNTY  
AND  
AECOM TECHNICAL SERVICES, INC.

Agreement No. 08ETCI006

THIS AMENDMENT NUMBER TWO, is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2012 by and between Miami-Dade County, a political subdivision of the State of Florida, hereinafter referred to as the "COUNTY", and AECOM Technical Services, Inc., a California corporation authorized to do business in the State of Florida and with offices in Miami-Dade County, hereinafter referred to as the "ENGINEER".

WITNESSETH

WHEREAS, on December 17, 2008, the COUNTY and ENGINEER entered into a Non-exclusive Professional Services Agreement with AECOM Technical Services, Inc., f./k/a Earth Tech Consulting, Inc., hereinafter referred to as the "Agreement"; and

WHEREAS, on May 4, 2010, the Board of County Commissioners approved Amendment Number One via Resolution R-511-10 which increased compensation by \$2.5 million from \$4 million to \$6.5 million and extended the contract four (4) additional years for the ENGINEER to provide additional engineering services for the design-criteria to relocate the 54-inch Sanitary Sewage Force Main from Miami Beach to Fisher Island which will allow the relocation of a portion of the force main to be completed prior to the dredging of the Government Cut in 2012; and

WHEREAS, the COUNTY, during an inspection and evaluation of the 54-inch sanitary sewage sewer force main from the Central District Wastewater Treatment Plant at Virginia Key to Fisher Island revealed that numerous segments of the existing pipeline are in a severely damaged condition and need to be replaced; and

WHEREAS, the Department proposes to increase the diameter of the entire replacement pipeline between Virginia Key to Fisher Island from 54-inch to 60-inch for additional capacity; and

WHEREAS, the COUNTY has requested and the ENGINEER has agreed to prepare the design-build criteria package for the replacement of the defective 54-inch with a 60-inch sanitary-sewage force main pipeline between Fisher Island and Virginia Key; and

WHEREAS, Amendment Number Two will increase compensation by \$1.1 million from \$7,150,000 to \$8,250,000 for the ENGINEER to modify the design criteria package for the relocation of the 54-inch sanitary sewage force main from Virginia Key to Fisher Island.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, the COUNTY and the ENGINEER hereby agree to the following:

1. Paragraph 6.D. of the Agreement is hereby modified to state as follows:

6.D. Maximum Compensation The total of all payments to the ENGINEER pursuant to this Agreement shall not exceed seven million five hundred thousand dollars (\$7,500,000). No minimum amount of compensation is guaranteed to the ENGINEER.

2. Paragraph 8 of the Agreement is hereby modified to state as follows:

8. CHANGE OF PRINCIPAL AND/OR PROJECT MANAGER Norman C. Anderson and Roger Williams, P.E., shall be the ENGINEER'S Principal and Project Manager, respectively. If the COUNTY or the ENGINEER requests a change of the Principal or the Project Manager, the party initiating said change shall make the request in writing and said request shall be received by the other party at least thirty (30) days prior to any such change. The Director reserves the right to approve the replacement Principal or Project Manager.

3. All terms, covenants and conditions of the Agreement not expressly modified or revised herein shall remain in full force and effect.

(The rest of the page is intentionally left blank)

IN WITNESS WHEREOF, the parties hereto have executed this Agreement by their duly officers on the date first written above.

ATTEST:

MIAMI-DADE COUNTY, FLORIDA  
BY ITS BOARD OF COUNTY  
COMMISSIONERS

By: \_\_\_\_\_  
Harvey Ruvin  
Clerk of the Board

By: \_\_\_\_\_  
Carlos A. Gimenez  
County Mayor

WITNESSETH:

By: \_\_\_\_\_  
*Christopher S. Kacany*  
Typed or print name

AECOM Technical Services, Inc.  
Firm Name (Place Corporate Seal)

By: \_\_\_\_\_  
*Lenhart Dr. Lenhart*  
Vice President

By: \_\_\_\_\_  
*Eric G. Hernandez*  
Typed or print name

LENNART DR. LEHHART  
Print name

Approved as to form  
and legal sufficiency.

\_\_\_\_\_  
Assistant County Attorney

Miami-Dade Water and Sewer Department  
 2012 - 2018 CAPITAL BUDGET /MULTI-YEAR PLAN

WASTEWATER PROJECTS

1009. CENTRAL MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATION IMPROVEMENTS

Commission District(s) Systemwide

OSBM No. 9650241

VERSION 3

Budget/ Estimate Cost	Prior		Projections										Total	Bond Issue		
	Prior to 2011 - 2012	FY 2011 - 2012	Total Prior	FY 2012 - 2013	FY 2013 - 2014	FY 2014 - 2015	FY 2015 - 2016	FY 2016 - 2017	FY 2017 - 2018	Future						
379,272,092	45,408,467	4,137,717	49,546,184	0	0	0	0	0	0	0	0	0	0	0	49,546,184	Construction - 2010 Bonds
	0	0	0	0	0	0	0	0	0	0	0	113,217,000	0	113,217,000	113,217,000	Future Funding
	0	0	0	0	960,000	1,000,000	0	0	0	0	0	177,000,000	0	177,000,000	181,947,600	Future W.A.S.D. Revenue Bonds
	360,372	15,389,452	15,749,824	0	0	0	0	0	0	0	0	0	0	0	15,749,824	Plant Expansion Fund - Wastewater
	14,940,936	0	14,940,936	0	0	0	0	0	0	0	0	0	0	0	14,940,936	W.A.S.D. Wastewater Commercial Paper
	0	3,870,548	3,870,548	0	0	0	0	0	0	0	0	0	0	0	3,870,548	Wastewater Renewal & Replacement Fund
<b>TOTAL</b>	60,709,775	25,397,717	86,107,492	0	960,000	1,000,000	0	0	0	0	0	200,217,000	0	2,987,600	379,272,092	

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Miami-Dade Water and Sewer Department  
2012 - 2018 CAPITAL BUDGET / MULTI-YEAR PLAN

WASTEWATER PROJECTS

1009. CENTRAL MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATION IMPROVEMENTS

Commission District(s) Systemwide

OSBM No. 9650241

VERSION 3

Budget/ Estimate Cost	Prior		Projections										Bond Issue		
	Prior to 2011-2012	FY 2011-2012	Total Prior	FY 2012-2013	FY 2013-2014	FY 2014-2015	FY 2015-2016	FY 2016-2017	FY 2017-2018	Future	Total				
0	32,069,517	32,069,517	32,069,517	17,476,667	0	0	0	0	0	0	0	0	0	49,546,184	Construction - 2010 Bonds
0	0	0	0	0	0	0	0	0	0	0	0	0	113,217,000	113,217,000	Future Funding
0	0	0	0	0	960,000	1,000,000	0	0	0	0	2,987,600	0	177,000,000	181,947,600	Future WASD Revenue Bonds
360,372	0	360,372	360,372	15,389,452	0	0	0	0	0	0	0	0	0	15,749,824	Plant Expansion Fund - Wastewater
14,940,936	0	14,940,936	14,940,936	0	0	0	0	0	0	0	0	0	0	14,940,936	WASD Wastewater Commercial Paper
0	0	0	0	3,870,548	0	0	0	0	0	0	0	0	0	3,870,548	Wastewater Renewal & Replacement Fund
15,301,308	32,069,517	47,370,825	47,370,825	36,756,667	960,000	1,000,000	0	0	0	0	2,987,600	0	290,217,000	379,272,092	
<b>TOTAL</b>															

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Miami-Dade Water and Sewer Department  
 2012 - 2018 CAPITAL BUDGET / MULTI - YEAR PLAN

WATER PROJECTS

1054. CENTRAL MIAMI-DADE WATER TRANSMISSION MAINS IMPROVEMENTS

Commission District(s) Systemwide

OSBM No. 9654041

VERSION 3

Budget/ Estimate Cost	Prior		Projections								Total	Bond Issue			
	FY 2011 - 2012	FY 2012 - 2012	Total Prior	FY 2012 - 2013	FY 2013 - 2014	FY 2014 - 2015	FY 2015 - 2016	FY 2016 - 2017	FY 2017 - 2018	Future					
33,277,800															
REVENUES	5,919,212	0	5,919,212	0	0	0	0	0	0	0	0	0	0	5,919,212	Construction - 2010 Bonds
	0	0	0	0	0	0	0	1,121,000	2,651,500	0	0	0	0	19,852,500	Future WASD Revenue Bonds
	7,506,088	0	7,506,088	0	0	0	0	0	0	0	0	0	0	7,506,088	WASD Water Commercial Paper
TOTAL	13,425,300	0	13,425,300	0	0	0	0	1,121,000	2,651,500	0	0	0	0	33,277,800	
EXPENDITURES	0	3,000,000	3,000,000	2,919,212	0	0	0	0	0	0	0	0	0	5,919,212	Construction - 2010 Bonds
	0	0	0	0	0	0	0	1,121,000	2,651,500	0	0	0	0	19,852,500	Future WASD Revenue Bonds
	7,506,088	0	7,506,088	0	0	0	0	0	0	0	0	0	0	7,506,088	WASD Water Commercial Paper
TOTAL	7,506,088	3,000,000	10,506,088	2,919,212	0	0	0	1,121,000	2,651,500	0	0	0	0	33,277,800	

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# Memorandum



**Date:** June 13, 2012

**To:** John Renfrow, Director  
Water and Sewer Department

**From:** Jack Osterholt, Deputy Mayor/Director  
Department of Regulatory and Economic Resources

**Subject:** Project No. E07-WASD-09, Replacement of 54 inch Force Main Port to Fisher Island

The subject project was reviewed by Small Business Development, a division of the Department of Regulatory and Economic Resources, for compliance with the Community Business Enterprise Program, §2-10.4.01 of the Code of Miami-Dade County. This project was awarded to AECOM Technical Services, Inc. (formerly known as Earth Tech, Inc.) on December 2, 2008 with a 26% Community Business Enterprise goal valued at \$1,690,000 after the approval of Change Order No. 1.

To date, the Community Business Enterprise firms meeting the goals have been paid \$1,701,157.08 or 28% of the amount paid to the prime. The prime contractor and its sub-consultants are in compliance with the applicable small business requirements.

c: Veronica Clark, Assistant to Director, SBD, RER  
Alice Hidalgo-Gato, CMC Director, SBD, RER  
Patrice Hill, AO2, SBD, RER

Miami-Dade Water and Sewer Department  
 2012 - 2018 CAPITAL BUDGET/MULTI-YEAR PLAN  
 WATER PROJECTS  
 1054. CENTRAL MIAMI-DADE WATER TRANSMISSION MAINS IMPROVEMENTS  
 Commission District(s) Systemwide  
 OSBM No. 9654041

VERSION 3

	Prior			Projections								Future	Total	Bond Issue
	Budget/ Estimate Cost	Prior to 2011-2012	FY 2011-2012	Total Prior	FY 2012-2013	FY 2013-2014	FY 2014-2015	FY 2015-2016	FY 2016-2017	FY 2017-2018				
<b>REVENUES</b>														
	33,277,800													
	5,919,212	0	0	5,919,212	0	0	0	0	0	0	0	0	0	5,919,212 Construction - 2010 Bonds
	0	0	0	0	0	0	0	0	0	1,121,000	2,651,509	16,080,000	0	19,852,509 Future WASD Revenue Bonds
	7,506,088	0	0	7,506,088	0	0	0	0	0	0	0	0	0	7,506,088 WASD Water Commercial Paper
<b>TOTAL</b>	13,425,300	0	0	13,425,300	0	0	0	0	0	1,121,000	2,651,509	16,080,000	0	33,277,800
<b>EXPENDITURES</b>														
	0	3,000,000	3,000,000	3,000,000	2,919,212	0	0	0	0	0	0	0	0	5,919,212 Construction - 2010 Bonds
	0	0	0	0	0	0	0	0	0	1,121,000	2,651,509	16,080,000	0	19,852,509 Future WASD Revenue Bonds
	7,506,088	0	0	7,506,088	0	0	0	0	0	0	0	0	0	7,506,088 WASD Water Commercial Paper
<b>TOTAL</b>	7,506,088	3,000,000	3,000,000	10,506,088	2,919,212	0	0	0	0	1,121,000	2,651,509	16,080,000	0	33,277,800

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