PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS AGENDA ITEM SUMMARY

Meeting Date:

May 20, 2014

Consent [X]

Public Hearing []

Regular []

Department:

Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Services Authorization No. 11 to the Contract with A.D.A. Engineering, Inc. (R2011-0634) for the Lyons Road 16" Reclaimed Water Main Extension Project (from Hyder P.U.D. to West Atlantic Avenue) in the amount of \$163,048.45.

Summary: On 10 0.3, 2011, the Palm Beach County Board of County Commissioners approved the Water Utilities Department (WUD) Engineering/Professional Services Contract with A.D.A. Engineering (R2011-0634). This Consultant Services Authorization No.11 provides for the survey and engineering design for the extension of approximately 8,000 linear feet of 16" Reclaimed Water Main along Lyons Road from just north of Quiet Vista Circle (Hyder P.U.D.) to West Atlantic Avenue. The Small Business Enterprise (SBE) participation goal established by the SBE Ordinance (R2002-0064) is 15% overall. The contract with A.D.A. Engineering, Inc. provides for SBE participation of 87% overall. This Authorization includes 68.03% overall participation. The cumulative SBE participation, including this Authorization, is 73.8% overall. A.D.A. Engineering, Inc. is a Palm Beach County company. (WUD Project No. 14-056) <u>District 5</u> (JM)

Background and Justification: WUD has been aggressively implementing the use of reclaimed water to unincorporated Palm Beach County over the past 20 years. WUD is currently the leader and the largest provider of reclaimed water service in southeast Florida. Extending the existing reclaimed water distribution system towards the southern section of the Department's Mandatory Reclaimed Water Service Area, will provide reclaimed water service to the surrounding residential communities, more specifically Hyder P.U.D., The Bridges, Mizner Country Club and Stone Creek Ranch. This extension will provide approximately 1 MGD of additional reclaimed water for these communities. The use of reclaimed water will eliminate the need to withdraw ground or surface water to irrigate golf course and landscape areas in these and surrounding communities.

Attachments:

1. Location Map

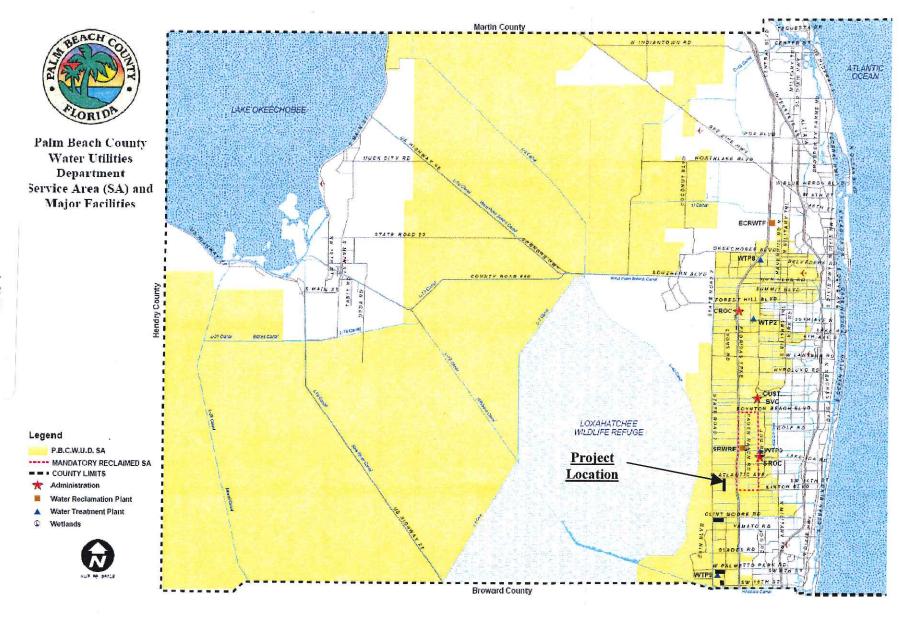
2. Two (2) Original Consultant Services Authorization No. 11

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2014	2015	2016	2017	2018						
Capital Expenditures External Revenues Program Income (County) In-Kind Match County CCRT Funds	\$163,048, \$0 0 0 0	<u>0</u> <u>0</u> <u>0</u> <u>0</u>	<u>0</u> <u>0</u> <u>0</u>	0 0 0	<u>0</u> <u>0</u> <u>0</u>						
NET FISCAL IMPACT	<u>\$163,048.</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>						
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>						
Budget Account No.: Fu	und <u>4011</u> Dept	<u>721</u> Ur	nit <u>W008</u>	Object	6543						
Is Item Included in Current		Yes X	No tegory <u>N/A</u>								
B. Recommended So											
B. Recommended Sources of Funds/Summary of Fiscal Impact: One (1) time expenditure from user fees, connection fees, and balance brought forward.											
C. Department Fiscal	Review:	lelua i	nwest		20						
III. REVIEW COMMENTS											
A. OFMB Fiscal and/o	or Contract Deve	lopment a	nd Control	Comme	nts:						
A. OFMB Fiscal and/or Contract Development and Control Comments: A. OFMB Fiscal and/or Contract Development and Control Comments: A. OFMB OFMB											
B. Degal Sufficiency:			L		W.						
Assistant County Attorney											
C. Other Department	Review:										
Department D	Director										

This summary is not to be used as a basis for payment.



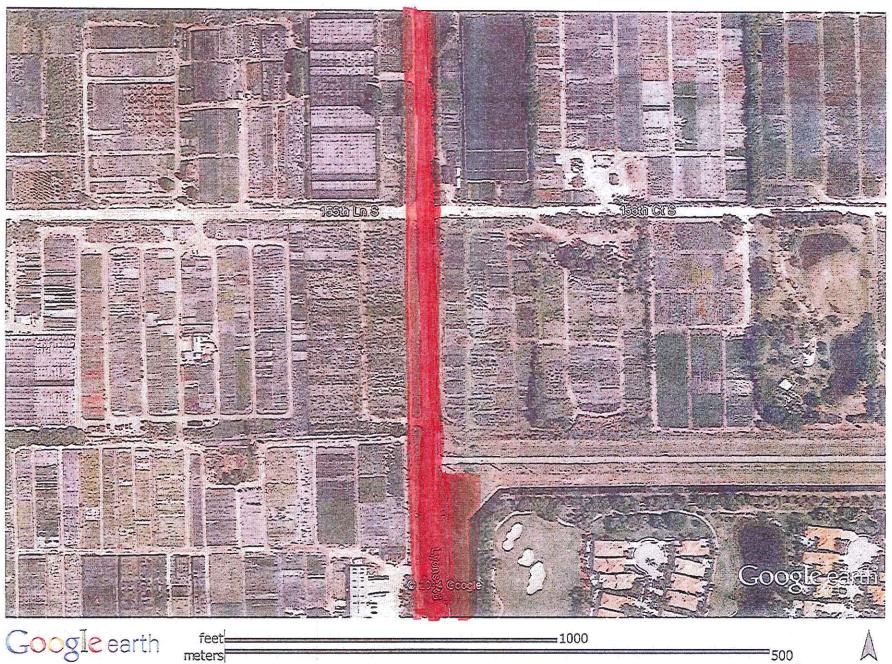
Project Name WUD 14-056: Lyons Road 16" Reclaimed Water Main Extension From Hyder P.U.D. to W. Atlantic Ave.

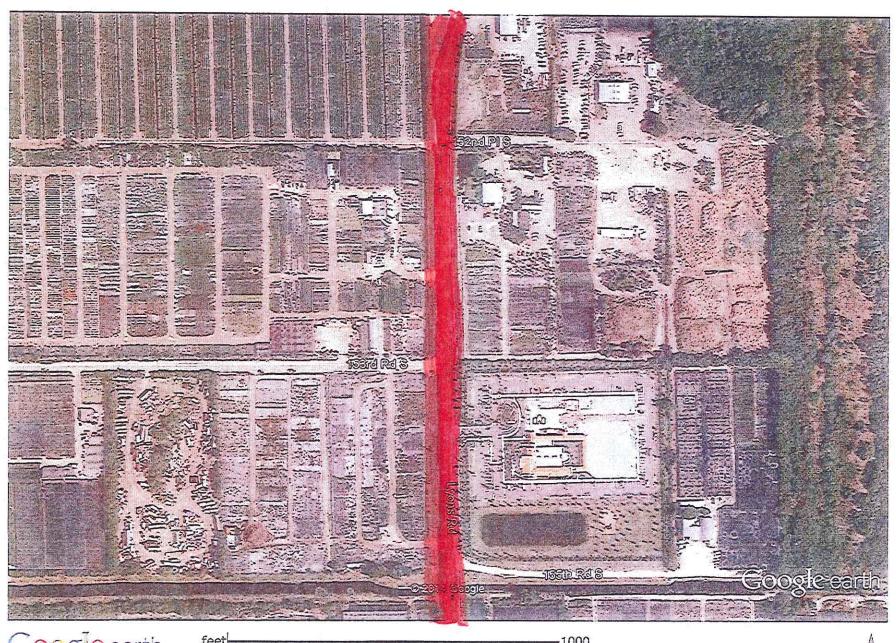


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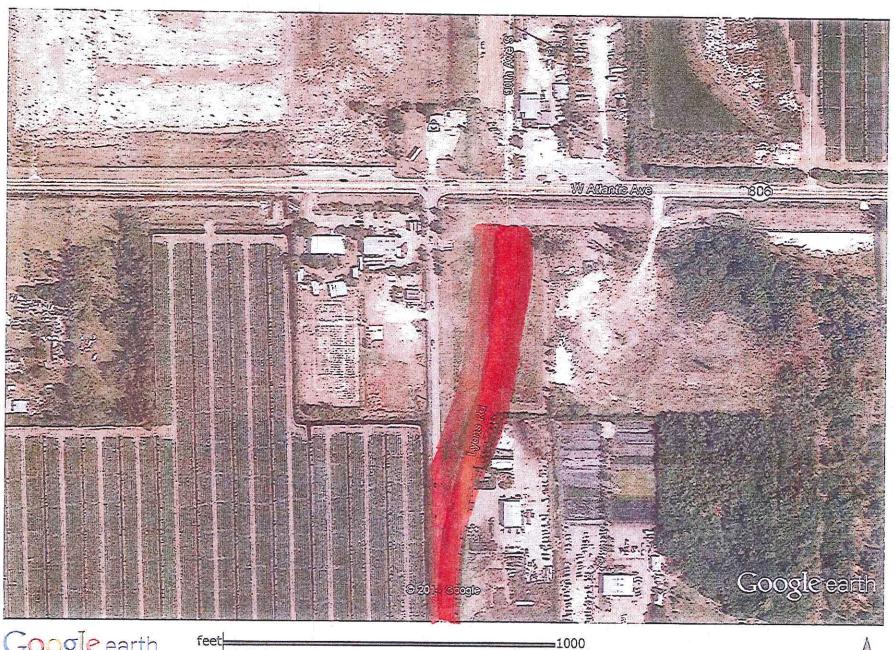


=500 2/5





feet meters!



CONSULTANT SERVICES AUTHORIZATION NO. 11

Project No. <u>WUD 14-056</u> Budget Line Item No. <u>4011-721-W008-6543</u>

Project Title: Lyons Road 16" Reclaimed Water Main Extension from Hyder

P.U.D. to W. Atlantic Avenue

District No.: 5

THIS AUTHORIZATION # 11 to the Contract for Consulting/Professional Services dated 05/03/2011 with an effective date of 06/03/2011 (Resolution/Document R2011-0634), by and between Palm Beach County and the Consultant identified herein, is for the Consultant Services described in Item 3 of this Authorization. The Contract provides for 87% SBE participation overall. This Consultant Services Authorization includes 68.03% overall participation. The cumulative SBE participation, including this authorization is 73.80% overall. Additional authorization will be utilized to meet or exceed the stated overall participation goal.

- 1. CONSULTANT: A.D.A. Engineering, Inc. (ADA)
- 2. ADDRESS: 1800 Old Okeechobee Road, Suite 202
 West Palm Beach, FL 33409
- 3. Description of Services to be provided by the Consultant:

ADA will provide consulting services for topographic survey (including base maps), subsurface utility investigation, design and permitting for approximately 8,000 linear feet of 16" D.I.P. Reclaimed Water main from Hyder P.U.D. north to W. Atlantic Avenue.

See ATTACHMENT A.

Services completed by the Consultant to date (Summary and Status of Authorizations):

See ATTACHMENT E.

- 5. Consultant shall begin work promptly on the requested services.
- 6. The compensation to be paid to the Consultant for providing the requested services shall be:
 - Computation of time charges plus expenses, not to exceed N/A
 - B. Fixed price of \$163,048.45.
- 7. This Authorization may be terminated by the County without cause or prior notice. In the event of termination not the fault of the Consultant, the Consultant shall be compensated for all services performed through the date of termination, together with reimbursable expenses (if applicable) then due.

PROJECT NO. WUD 14-056 AUTHORIZATION NO. 11 Budget Line Item No. 4011-721-W008-6543

- 8. As described in Section 7.5 of the CONTRACT, SBE participation is included in Attachment D under this Authorization. The attached Schedule 1 defines the SBE applied to this Authorization and Schedule 2 establishes the SBE contribution from each subconsultant (Letter of Intent to perform as an SBE).
- EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated <u>05/03/2011</u> with an effective date of 06/03/2011 remain in full force and effect.

IN WITNESS WHEREOF, this Authorization is accepted, subject to the terms, conditions and obligations of the aforementioned Contract.

PALM BEACH COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA

Sharon R. Bock, Clerk & Comptroller, Palm Beach County ATTEST:	Palm Beach County, Board of County Commissioners					
Signed:	Signed: Priscilla A. Taylor, Mayor	152.14				
Typed Name:	Date					
Approved as to Form and Legal Sufficiency	•					
Signed:						
Typed Name:County Attorney						
ATTEST: Witness	CONTRACTOR: A.D.A. Engineering, Inc. (Signature)					
ALBERT BREWING V.P. (Name and Title)	Alex Vazquez, PE/Vice President (Name and Title)					
(CORPORATE SEAL)	4/8/2014 Date					

LIST OF ATTACHMENTS

PROJECT NO. WUD 14-056 AUTHORIZATION NO. 11 Budget Line Item No. 4011-721-W008-6543

ATTACHMENT - A Scope of Work

ATTACHMENT - B Budget Summary

ATTACHMENT - C Project Schedule

ATTACHMENT - D SBE Schedule 1

ATTACHMENT - E Authorization Status Report - Summary and Status of Authorizations

ATTACHMENT - F Authorization Status Report – Summary of SBE/MWBE Tracking

ATTACHMENT - G Location Map

ATTACHMENT A

CONSULTANT SERVICES AUTHORIZATION NO. 11

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT ENGINEERING/PROFESSIONAL SERVICES

SCOPE OF WORK FOR

LYONS ROAD 16" RECLAIMED WATER MAIN EXTENSION FROM HYDER P.U.D. TO W. ATLANTIC AVENUE

INTRODUCTION

Palm Beach County (COUNTY) entered into an agreement entitled Contract for Engineering/ Professional Services - Palm Beach County Utilities Department Project No. WUD 11-005 (CONTRACT) with A.D.A. Engineering, Inc. (CONSULTANT) to provide engineering services for various general activities on (Reference Document R2011-0634). This Consultant Service Authorization will be performed under that CONTRACT.

This Consultant Services Authorization encompasses providing professional engineering design services for reclaimed water main (RCWM) installation on the west side of Lyons Road south of Atlantic Blvd.

BACKGROUND

This project includes installing approximately 8,000 linear feet of 16" ductile iron pipe (D.I.P.) reclaimed watermain (RCWM) with all fittings and appurtenances on Lyons Road from Hyder P.U.D. north to W. Atlantic Avenue (See Attachment 4).

SCOPE OF SERVICES

CONSULTANT shall perform the engineering Scope of Services as described herein.

Palm Beach County Water Utilities Department (PBCWUD) will provide the CONSULTANT the following information and/or be responsible for the following items:

- Assist CONSULTANT in obtaining as-built drawings for existing 20" D.I.P. RCWM at the intersection of Atlantic Ave. and Lyons Road.
- 2. Provide relevant information of nearby completed design project(s) in a digital format with a hardcopy set, as available.
- 3. Provide consolidated review comments of the 30%, 60% and 90% design drawing submittals within two (2) weeks of receipt from CONSULTANT.
- 4. Prepare construction contract documents and technical specification.
- 5. Perform all the necessary plan reproductions.
- 6. Perform construction management and inspection services.
- 7. Provide all construction and final certification services required for the project.
- 8. Pay for applicable permitting fees.

The CONSULTANT will be responsible for the following items:

Task 1 - Data Collection:

1.1.1 General Services for Survey Phase:

The CONSULTANT will retain the services of Cardno TBE to furnish a Survey topographical with horizontal baseline and vertical control in plan view to provide a basis for the proposed layout and design in state-plane coordinate system. The surveys shall be provided in a digital format. The following is the scope for Cardno TBE:

- 1. Cardno TBE will perform a topographic survey from 1,000' north of the north edge of pavement of Quiet Vista Circle to 100' south of the south edge of pavement of Atlantic Avenue (SR806), within the existing right of way of Lyons Road, except at the northern end of the project where Lyons Road "Y's", at which point the westerly termination of the topographic survey will extend to one measurement past the toe of slope (approximately 60' west of the west edge of pavement).
- 2. Cross sections will be taken at approximately 100' intervals, except along the southerly 1,300' where cross sections will be taken at approximately 200' intervals.
- 3. The survey will include the location of two headwalls along the west r/w line along with their associated pipe invert and size as well as the existing side street cross drains located along the west side of the project.
- 4. Horizontal datum will be NAD 83/latest adjustment and the vertical datum will be based upon NAVD 88.
- 5. A title search for right of way and easement documents will be performed within the entire Lyons Road R/W corridor.
- 6. Right of Way will be established based upon existing plat information and the information received through the right of way and easement search. A baseline of survey will be created meeting the design team's needs.

1.1.2 <u>Utility Location (Optional):</u>

If required, Cardno TBE can perform the Utility Locate (test-hole) Set Up (Designation).

- Cardno TBE will set up each test hole by use of electromagnetic induction or GPR (ground penetrating radar) methods. This will prevent "empty" test holes caused by performing locates on marks provided by the Florida One Call System.
- 2. Cardno TBE will provide up to 10 utility locates as directed by the design engineer. At each of these sites, depth of cover will be obtained along with the approximate size and type of utility found.

Utility locate information will include northing, easting, elevation, depth of cover along with size and type of utility found.

Subsurface Utility Engineering Conditions and Understandings

The utility markings are for design purposes only. The Florida One Call must be notified forty-eight (48) hours in advance of any excavation.

Accuracy of Geophysical Mapping methods, although highly reliable, is subject to outside interference. Some examples are: depth, soil conditions, material conductivity, and other geological anomalies that may distort electromagnetic and GPR frequencies.

Cardno TBE will make every effort possible utilizing state of the art technology to designate underground utilities; however there are no guarantees that all underground utilities/structures will be detected.

Assumptions:

Pavement restoration under this scope and fee estimate includes "Cold Pavement Patch" only. If additional restoration requirements are necessary an additional fee proposal to cover the additional expense will be provided.

If additional maintenance of traffic is required beyond standard Survey MOT capabilities, then an additional fee proposal to cover the additional expense will be provided.

Task 2 - Water Service Line and Water Main Design:

The CONSULTANT will prepare and furnish plan and profile for the reclaimed watermain at 1° = 20' scale on 24" x 36" drawing size. Conflicts will be clearly called out on the plans with associated top of pipe, pipe material, elevations and clearances. Based on the scale and the typical number of details required for this type of project, the full set of plans is assumed to be 26 sheets with the sheet descriptions as follows:

Sheet 1: Cover Sheet

Sheet 2: Legend and Abbreviations

Sheet 3: Key Map

Sheet 4: Survey Control Plans Sheet 5: Master Water Plan

Sheets 6-21: Plan and Profile View for Proposed Reclaimed Watermain

Sheet 22: Pavement and Landscape Restoration Details

Sheets 23-26: Latest Standard WUD Details (Valve, Thrust Block,

Signage, Etc)

The CONSULTANT shall provide five (5) submittals during the design process. The first submittal will be a Basemap showing sheet delineations, as-built information and all collected survey data. The following interim design submittals will include pipeline layout and details in the format of 30%, 60% and 90% design drawings. The CONSULTANT will complete 100% design drawings after receipt of 90% review comments. The CONSULTANT will also prepare opinion of probable construction cost at the 100% submittal.

The CONSULTANT shall submit two (2) sets of black line drawings at each interim stage of completion for review and comment from PBCWUD and five (5) sets of signed and sealed black line drawings at 100% submittal. The CONSULTANT will submit the CAD files and other electronic data via CD along with the 100% submittal.

Task 3 - Permitting:

At the outset of the Design Phase, the CONSULTANT shall consult with the appropriate permitting agencies to determine potential permitting requirements. Agencies anticipated to have jurisdiction of the project include: Palm Beach County Land Development and Lake Worth Drainage District (LWDD).

Permit applications shall be completed by the CONSULTANT as required by the above agencies. Associated permit fees will be paid by the PBCWUD.

In addition to preparing the permit applications for appropriate regulatory agencies, CONSULTANT shall assist the PBCWUD in consultations with the appropriate authorities. Consultant services shall include the following:

- 1. Attend one (1) pre-application meeting with the staff of each regulatory agency (2 meetings total).
- 2. Attend one (1) meeting with each of the regulatory agencies during review of the final permit applications as required (2 meetings total).
- 3. Respond to request(s) for additional information from each regulatory agency.
- 4. Provide County with one (1) set of approved plans from permitting agencies as may be applicable.
- 5. Prepare permit applications.

Assumptions:

In addition to the work items discussed above, the following assumptions were made in establishing the scope of work for this Consultant Services Authorization and associated fee:

- 1. PBCWUD latest construction standards will be incorporated into the reclaimed water main system design.
- The design is based on the federal, state and local codes and standards in effect at the beginning of the project. Revisions required for compliance with any subsequent changes to those regulations is considered an "Additional Services" item.
- 3. Bid and award services will not be performed as part of this project.
- 4. Construction management and inspection services will not be performed as part of this project.
- 5. PBC Health Department permitting will not be required for reclaimed watermain construction.

COMPENSATION

COUNTY agrees to pay CONSULTANT a fix fee of \$163,048.45 for the Scope of Services provided for in this Consultant Services Authorization in accordance with Section 5 of the CONTRACT. A breakdown of the fee is shown in Attachment A.

ATTACHMENT B

CONSULTANT SERVICES AGREEMENT (CSA) No. 11

LYONS ROAD 16" RECLAIMED WATER MAIN EXTENSION FROM HYDER P.U.D. TO W. ATLANTIC AVE.

BUDGET SUMMARY

No. Description \$70 \$53 \$54 \$44 \$99 \$29 \$28 \$20 Hours Labor Services 1.1 Topographic Survey 2 2 4 5 6 \$84,00 \$97,428,63 \$77,428,63															4/8/201
Chief						La	bor Classification	s and Hourly Ra	ates					Sub Consultant	
Task				Chlef								AD	A Totals		Total
1.1 Topographic Survey				QA/QC	Manager	Engineer	Engineer			Technician		7 - 11-1		Cardno TBE	Consultant
1.2 17410 Search 1 2 3 \$142.00 \$9,500.00 \$5,500.00	No.	Description		\$70	\$63	\$54	\$44	\$39	\$29	\$2B	\$20	Hours	Labor		Services
1.2 17410 Search 1 2 3 \$142.00 \$9,500.00 \$5,500.00															
1.1 1.2 1.3 1.4 1.2 1.3 1.5						2	4					6	\$284.00	\$37,428.63	\$37,428.63
2.1 As-Pull'Review 2.1 Site Visit 4 4 4 9 8 5588.00 \$0.00 2.1 Site Visit 5 10 1 143 55226.00 \$0.00 2.2 30 40 80 80 1 143 55226.00 \$0.00 2.3 30% Design Submittal [26 sheets expected] 2 4 40 60 80 80 2 188 57.472.00 \$52.00 2.4 30% Design Submittal [26 sheets expected] 1 2 30 50 60 80 2 145 55736.00 \$0.00 2.5 30% Design Submittal [26 sheets expected] 1 2 30 50 60 2 145 55736.00 \$0.00 2.5 100% Design Submittal [26 sheets expected] 1 2 16 24 80 80 1 1 84 53,256.00 \$0.00 2.5 100% Design Submittal [26 sheets expected] 1 2 1 2 16 24 80 80 1 1 84 \$3,256.00 \$0.00 2.5 100% Design Submittal [26 sheets expected] 1 2 2 16 74 80 80 1 1 84 \$3,256.00 \$0.00 2.5 100% Design Submittal [26 sheets expected] 1 2 1 2 16 74 80 80 1 1 84 \$3,256.00 \$0.00 3.1 Attend Pre-Application Meetings [PBC Land Dev. & LWDD] 8 8 8 8 8 8 1 1 6 7 84.00 \$0.00 3.2 Prepare and Submit Permit Applications 2 2 24 24 24 8 2 2 52 \$5,518.00 \$0.00 3.3 Respond to RAI [PBC Land Development & LWDD] 1 1 1 2 20 0 0 0 320 11 846 \$34,214.00 \$52,115.63 \$57,115.63 3.3 Respond to RAI [PBC Land Development & LWDD] 5 16 194 300 0 0 0 320 11 846 \$34,214.00 \$52,115.63 \$57,115.63 4.4 Submittal [26 sheets expected] 5 1,500.00 \$10,00 \$10,00 \$0.						1	2					3	\$142.00	\$9,500.00	\$9,500.00
2.1.1 Site Visit						1	2					3	\$142.00	\$5,187.00	\$5,187.00
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2.5.1 100% Design Probable Construction Cost 1 2 4	2.4			1	. 2	30	50			60	2	145	\$5,736,00		\$0.00
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LABOR RAW COSTS \$350.00 \$1,008.00 \$10,476.00 \$13,200.00 \$0.00 \$8,950.00 \$220.00 \$34,214.00 \$34,214.00 \$10,476.00 \$10,476.00 \$10,476.00 \$10,476.00 \$10,000													†		
LABOR RAW COSTS \$350.00 \$1,008.00 \$10,476.00 \$13,200.00 \$0.00 \$8,950.00 \$220.00 \$34,214.00 \$34,214.00 \$10,476.00 \$10,476.00 \$10,476.00 \$10,476.00 \$10,000															
LABOR RAW COSTS \$350.00 \$1,005.00 \$13,200.00 \$0.00 \$0.00 \$8,950.00 \$220.00 \$34,214.00 \$4,000 \$1,000			LABOR TOTAL HOURS	5	16	194	300	0	0	320	11	846			
LABOR MULTIPLIER 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0			LABOR RAW COSTS	\$350,00		\$10,475,00	\$13,200.00	\$0.00	\$0.00						
LOADED LABOR COST \$1,050.00 \$3,024.00 \$31,428.00 \$39,600.00 \$0.00 \$0.00 \$26,889.00 \$560.00 \$102,642.00 \$52,115.63 \$52,115.63			LABOR MULTIPLIER	3.0											
Value			LOADED LABOR COST	\$1,050,00										\$52 115 62	\$57 116 69
TO THE WINDS OF THE PROPERTY O						,.20.00	,,	42,00	42,00	720,000.00	4000.00		V-02,042,00	A-26/TT3:03	22E, 110.03
			To the Capoti Coal	7102,1	74.45										

ATTACHMENT - C

PROJECT SCHEDULE

SCHEDULE

Engineering Services

The completion dates for this work will be as follows (starting from CONSULTANT'S receipt of Notice-to-Proceed).

Base Map Submittal	4 Weeks
30% Design	4 Weeks
60% Design	4 Weeks

90% Design 4 Weeks 100% Design 2 Weeks

Permitting 2 Weeks

Total 140 Calendar Days

Completion Date From Notice to Proceed

ATTACHMÉNT D

SCHEDULE #1

LIST OF PROPOSED SBE-M/WBE PRIME/SUBCONTRACTORS

PROJECT NAME:	Lyons Road 16" Reclaimed Water Main Exten			on From Hyder P.U.D. to W. Atlantic Avenue				PROJECT NUMBER: WUD 14-056						
PROJECT OF PRIME BIDDER: CONTACT PERSON: BID OPENING DATE:	A.D.A. Engineering, Inc. Alex Vazquez, PE N/A					ADDRESS PHONE NO EPARTMENT	.: 56	1-615-888	0, Ext20				Beach, FL 33 561-615-8	
Name, Address and Telephone Number of Minority Contractor	(Check of Minority Business	PLEASE IDENTIFY one or both Categories) Small Business		APPL lack	.ICAE	BLE CATEGO Hispanic			ollar An Ca	nount ucasian		Othe	r (Please S	Specify)
A.D.A. Engineering, Inc. 1800 Old Okeechobee Rd, Suite 202 West Palm Beach, FL 33409 (561) 615-8880	v		\$	-	≨ -\$	110,932,82	\$:	\$	-	\$			
			\$	-	\$	-	\$. <u>-</u>	\$	-	\$_			
			\$		\$	-	\$	<u>-</u>	\$	<u></u>	\$	-		
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			\$	-	\$		\$		\$		\$	_		
PRIME CONTRACTOR TO CON	PLETE:	TOTAL	\$_		\$	110,932.82	\$		\$	-	\$	-		
BID PRICE: \$163,	048,45	Total Value of SBE Pa	articip	oation		\$110,93	32.82	:						

NOTE

- 1. The amount listed on this form for a Subcontractor must be supported by price or percentage included on Schedule 2 or a proposal from each Subcontractor listed in order to be counted toward goal attainment.
- 2. Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both an SBE and M/WBE, please indicate the dollar amount under the appropriate category.
- 3. M/WBE information is being collected for tracking purposes only.



State of Florida Minority, Women & Service-Disabled Veteran

Business Certification

A.D.A. Engineering, Inc.

Is certified under the provisions of 287 and 295.187, Florida Statutes for a period from:

04/24/2012 to 04/24/2014

John P Miles, Secretary

Florida Department of Management Services
Office of Supplier Diversity

Office of Supplier Diversity * 4050 Esplanade Way, Suite 380 * Tallahassee, FL 32399-0950 * 850,487,0915 * www.osd.dms.state.fl.us

ATTACHMENT - E

AUTHORIZATION STATUS REPORT GENERAL UTILITY, ARCHITECTURAL AND VALUE ENGINEERING SERVICES

SUMMARY AND STATUS OF REQUESTS FOR AUTHORIZATIONS

Auth.	Description		Project Total	Date	WUD No.	ADA
No.	Description	Status	Amount	Approv ed		Project No.
1_	WATERGATE MOBIL PARK DESIGN SUPPORT	Approved	\$78,707.20		WUD 06-187	C178-0211-1
2	HAVERHILL ROAD AND OKEECHOBEE BOULEVARD INTERSECTION sue SERVICES	Approved	\$16,320.89			C178-0211-2
	HAVERHILL ROAD AND OKEECHOBEE BOULEVARD INTERSECTION SUE ADDITIONAL SERVICES	Approved	\$8,613.85			C178-0211-2
	WTP 3 and 8 NEW PRODUCTION WELLS	Approved				C178-0211-3
	WTP 3 and 8 NEW PRODUCTION WELLS SUPPLEMENTAL NO 1	Approved	\$37,741,88			C178-0211-3
	SIMS ROAD 12-INCH WATER MAIN EXTENSION	Approved	\$18,304.00			C178-0211-4
5	MEADOWBROOK DRIVE AND L-2 CANAL CROSSING REPLACEMENT	Approved				C178-0211-5
5.1	MEADOWBROOK DRIVE AND L-2 CANAL CROSSING REPLACEMENT SUPPLEMENTAL NO 1	Approved				C178-0211-5
6	LIFT STATION 5229 BY-PASS	Approved				C178-0211-6
6.1	LIFT STATION 5229 BY-PASS SUPPLEMENTAL NO 1	Approved				C178-0211-6
7	8-IN MAIN REPLACEMENT AT JOG RD BETWEEN ATLANTIC AND LINTON BLVD	Approved				C178-0211-7
7.1	8-IN MAIN REPLACEMENT AT JOG RD BETWEEN ATLANTIC AND LINTON BLVD, SUP NO 1	Approved				C178-0211-7
7.2	8-IN MAIN REPLACEMENT AT JOG RD BETWEEN ATLANTIC AND LINTON BLVD, SUP NO 2	Approved				C178-0211-7
	SOUTH COUNTY WATER SERVICES REPLACEMENT PROJECT	Approved				C178-0211-8
8.1	SOUTH COUNTY WATER SERVICES REPLACEMENT PROJECT, SUP NO 1	Approved				C178-0211-8
	FM BY-PASS AT MASTER PS # 5: SUBSURFACE UTILITY INVESTIGATION SERVICES	Approved				C178-0211-9
	FM BY-PASS AT MASTER PS # 5: SUBSURFACE UTILITY INVESTIGATION SERVICES, SUP 1	Approved				C178-0211-9
	STATE ROAD 715 PAHOKEE WATER MAIN CULTURAL RESOURCE SURVEY	Pending	\$24,035.00	00/2/1111		C178-0211-10
	LYONS ROAD 16" RECLAIMED WATER MAIN EXTENSION FROM HYDER P.U.D. TO W. ATLANTIC AVE.	Pending	\$163,048.45			C178-0211-10
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Total			\$791,998.67			

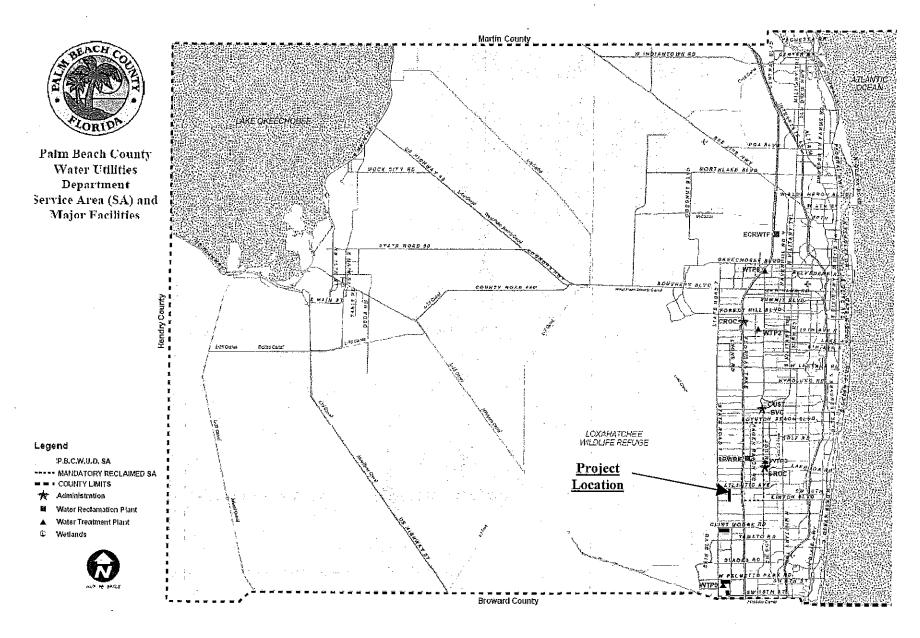
ATTACHMENT - F

AUTHORIZATION STATUS REPORT GENERAL UTILITY, ARCHITECTURAL AND VALUE ENGINEERING SERVICES

SUMMARY OF SMALL BUSINESS TRACKING SYSTEM

	Total	
Current Proposal		
Value of Authorization No. 11:	\$163,048.45	
Value of SBE Letters of Intent	\$110,932.82	
Actual Package	68.03%	
Signed Authorizations	er e	
Total Value of Authorizations	\$604,915.22 ³	
Total Value of SBE Signed Subcontracts	\$455,849.10	
Actual Percentage	75.35%	
Signed Authorizations Plus Current Proposal		
Total Value of Authorizations	\$767,963.67	
Total Value of Subcontracts & Letters of Intent	\$566,781.92	
Actual Percentage	73.80%	
GOAL	87.00%	

ATTACHMENT G



Project Name WUD 14-056: Lyons Road 16" Reclaimed Water Main Extension From Hyder P.U.D. to W. Atlantic Ave.

April 4, 2014



Shaping the Future

Cardno TBE

3427 NW 55* Street
Ft. Lauderdale FL 33309
USA.
Phone 954,938,9389
Fax 954,938,6909
Email tbe@CardnoTBE.com

www.CardnoTBE.com

Mr. Alex Vazquez, PE Vice President A.D.A. Engineering, Inc. 8550 NW 33 Street, Suite 101 Doral, Florida 33122

Re: Topographic Survey - Lyons Road from south side of SR806, south for approximately 1.5 miles.

Mr. Vazquez:

Cardno TBE appreciates the opportunity to provide surveying support services on this very important project.

Topographic Survey:

Cardno TBE will perform a topographic survey from 1,000' north of the north edge of pavement of Quiet Vista Circle to 100' south of the south edge of pavement of Atlantic Avenue (SR806), within the existing right of way of Lyons Road, except at the northern end of the project where Lyons Road "Y's", at which point the westerly termination of the topographic survey will extend to one measurement past the toe of slope (approximately 60' west of the west edge of pavement). See the attached sketch for project limits.

Cross sections will be taken at approximately 100' intervals.

The survey will include the location of four headwalls, accessible drainage structures and culverts along with their associated inverts and pipe sizes.

Horizontal datum will be NAD 83/latest adjustment and the vertical datum will be based upon NAVD 88.

A title search for right of way and easement documents will be performed within the Lyons Road R/W corridor.

Right of Way will be established based upon existing plat information and the information received through the right of way and easement search. A baseline of survey will be created meeting the design team's needs.

Australia • Belgium • Indonesia •. Kenya • New Zealand • Papua New Guinea United Arab Emirates • United Kingdom • United States • Operations in 60 countries

Deliverable:

The topographic survey, existing right of way (based upon r/w and easement research) and baseline of survey will be provided in an AutoCAD base map file for subsequent reference and use by the design engineer. This estimate does not include boarded sheets files or signed and sealed hard copies.

Lump Sum Fee Topographic Survey:

Office Support/Field Effort										
	Rate per Hour	Multiplier	Loaded Rate	Est, Hours	Est. Fees					
Project Manager	\$59.39	3,0	178.17	16.00	\$ 2,850.72					
Senior Surveyor and Mapper	\$43.20	3.0	129.60	32.00	\$ 4,147.20					
Surveyor and Mapper	\$37.60	3.0	112.80	0.00	\$ -					
SUE Manager	\$34.66	3.0	103,98	0.:00	\$					
Survey Technician	\$28.85	3.0	86.55	61.00	\$ 5,279.55					
Utility Locator	\$26.74	3.0	80.22	0.00	\$					
Engineering Technician	\$21.00	3.0	63.00	0.00	\$ -					
Survey Party Chief	\$21.97	3.0	65.91	144.00	\$ 9,491.04					
Instrument Man	\$15.00	3.0	45.00	144.00	\$ 6,480.00					
Rod Man	\$12,25	3.0	36.75.	144.00	\$ 5,292.00					
Administrative Assistant	\$24.02	3.0	72.06	2.00	\$ 144.12					
Survey Truck	\$26.00	1.0	26.00	144.00	\$ 3,744.00					
Designating Truck	\$22.00	1.0	22.00	0.00	\$ -					
Locating Truck	\$53.00	1.0	53.00	0.00	.\$ -					

 Sub Total
 \$ 37,428.63

 MOT Expense=
 \$ __

 Lump Sum Fee -Topographic Survey
 __
 \$ 37,428.63

Lump Sum Fee Title Search (right of way and easements):

\$9,500.00

Optional Services:

If required, Cardno TBE will provide utility locates utilizing the following procedures:

Utility Locate (test hole) Set Up (Designation):

Cardno TBE will set up each test hole by use of electromagnetic induction or GPR (ground penetrating radar) methods. This will prevent "empty" test holes caused by performing locates on marks provided by the Florida One Call System.

Utility Locating (test hole):

Cardno TBE will provide up to 10 utility locates as directed by the design engineer. At each of these sites, depth of cover will be obtained along with the approximate size and type of utility found.

Utility locate information will include northing, easting, elevation, depth of cover along with size and type of utility found.

Survey Support:

Cardno TBE will utilize existing project control to stake each potential conflict site. After the utility locates have been completed, each test hole will be mapped from existing project control, processed and placed in the original topographic AutoCAD file.

Deliverable:

AutoCAD file depicting the horizontal location of each test hole completed. In addition to the 2D cadd file, a test hole summary report in excel format will be provided indicating the northing, easting, elevation, depth of cover, size and type of utility found.

This estimate does not include boarded sheets files or signed and sealed hard copies.

Subsurface Utility Engineering Conditions and Understandings

The utility markings are for design purposes only. The Florida One Call must be notified forty-eight (48) hours in advance of any excavation.

Accuracy of Geophysical Mapping methods, although highly reliable, is subject to outside interference. Some examples are: depth, soil conditions, material conductivity, and other geological anomalies that may distort electromagnetic and GPR frequencies.

Cardno TBE will make every effort possible utilizing state of the art technology to designate underground utilities; however there are no guarantees that all underground utilities/structures will be detected.

Assumptions:

Pavement restoration under this scope and fee estimate includes "Cold Pavement Patch" only. If additional restoration requirements are necessary an additional fee proposal to cover the additional expense will be provided.

If additional maintenance of traffic is required beyond standard Survey MOT capabilities, then an additional fee proposal to cover the additional expense will be provided.

Permits are not included in this estimate.

Utility Locate Estimate:

	Office Suppo	rt/Field Effort				
	Rate per Hour	Multiplier	Loaded		E	st. Fees
Project Manager	\$59.39	3.0	178.17	2.00	\$	356,34
Senior Surveyor and Mapper	\$43.20	3.0	129.60	2.00	\$	259.20
Surveyor and Mapper	\$37.60	3.0	112.80	0.00	\$	_
SUE Manager	\$34.66	3.0	103.98	0.00	\$	-
Survey Technician	\$28.85	3.0	86.55	6.00	\$	519.30
Utility Locator	\$26.74	3.0	80.22	12.00	\$	962.64
Engineering Technician	\$21.00	3.0	63.00	12.00	\$	756.00
Survey Party Chief	\$21.97	3.0	65.91	6.00	\$	395.46
Instrument Man	\$15.00	3.0	45.00	18.00	\$	810.00
Rod Man	\$12.25	3.0	36.75	0.00	\$	-
Administrative Assistant	\$24.02	3.0	72.06	1.00	\$	72.06
Survey Truck	\$26.00	1.0	26.00	6.00	\$	156.00

Designating Truck	\$22.00	1,0	22.00	12.00	\$ 264.00
Locating Truck	\$53.00	1.0	53.00	12.00	\$ 636.00

Sub Total

\$ 5,187.00

MOT Expense=

<u>\$</u>

Estimated Fee (10 Test Holes)

\$ 5,187.00

Cost Per Test Hole \$518.70/minimum 6 per request.

Cardno TBE is looking forward to working with A.D.A and Palm Beach County Water Utilities Department on this very important project.

If you have any questions, please give me a call at 954-938-9389.

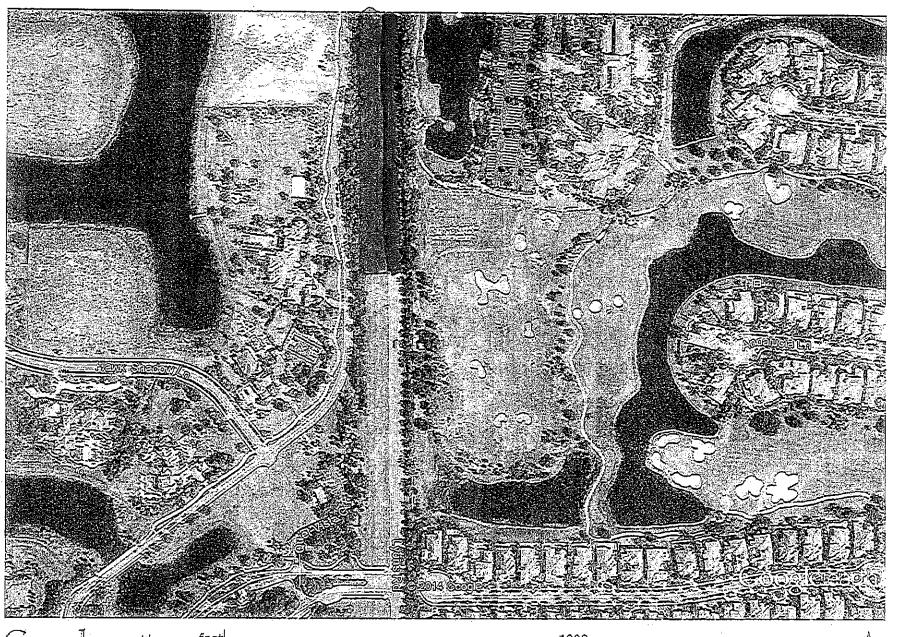
Sincerely,

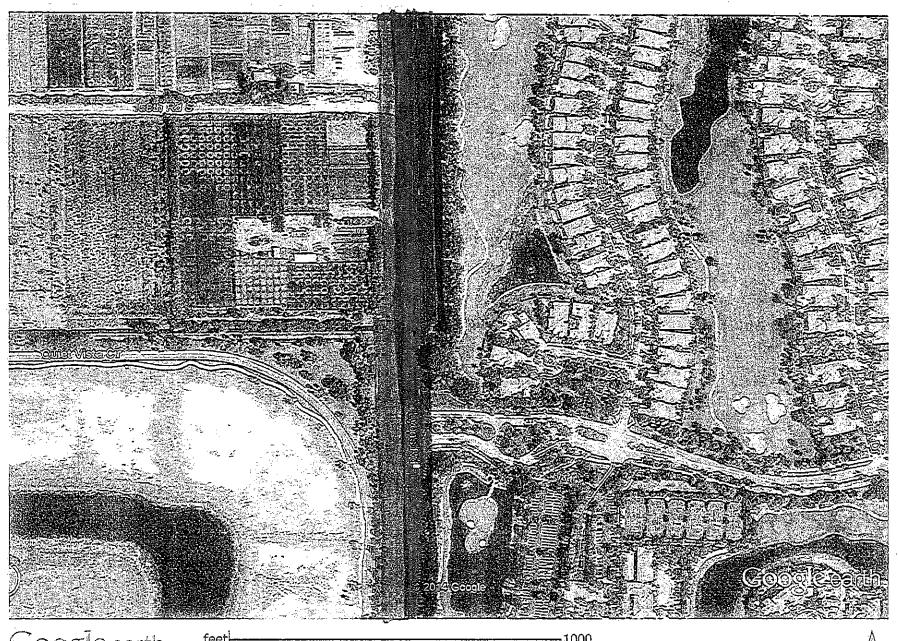
Mark R. Sowers

Director

For Cardno TBE

Direct Line 954-938-9389 ext. 207





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