Agenda Item # 3K-1

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date:	**April 2, 2013**	**Consent [X]** **Public Hearing [ ]**	**Regular [ ]**
Department:	**Water Utilities Department**		

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Services Authorization No. 8 for the South County Water Services Replacement Project – Phase III to the contract for Engineering/Professional Services for the Survey and Engineering Design (R2011-0634) with A.D.A. Engineering, Inc. in the amount of $169,135.72.

Summary: On June 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, Inc. (R2011-0634). This Consultant Services Authorization No. 8 provides for the survey and engineering design for the replacement of potable water services and asbestos concrete water mains in three (3) areas within South County as follows: Area 1 – Sandalfoot Cove: located in southwest Boca Raton (west of Lyons Road and just south of Palmetto Park Road); Area 2 – Boca Dunes: located in southwest Boca Raton (west of Lyons Road and just north of SW 18th Street); Area 3 – Spanish Isles; located in southwest Boca Raton (north of Spanish Isles Boulevard, between Lyons Road and State Road 7). The Small Business Enterprise (SBE) participation goal established by the SBE Ordinance (R2002-0064) is 15.00% overall. The contract with A.D.A. Engineering, Inc. provides for SBE participation of 87.00% overall. This Authorization includes 66.01% overall participation. The cumulative SBE participation, including this Authorization, is 80.28% overall. A.D.A. Engineering, Inc. is a Palm Beach County company. (WUD Project No. 13-031) District 5 (JM)

Background and Justification: WUD serves potable water to the Sandalfoot Cove, Boca Dunes and Spanish Isles areas located in southwest Boca Raton. The existing water service lines to the individual residences are over 30 years old and are composed of old polyethylene pipe which is currently failing or leaking, thus causing interruption of service to customers. The scope of this project is to replace these old PE water service lines with new Polyvinyl Chloride service lines and replace the existing direct read water meters with radio read meters, therefore greatly improving the reliability of water service to customers and providing a more efficient means of meter reading for WUD's operation staff. In addition, there are sections of existing asbestos concrete pipe (substandard pipe) that will require replacement, with new ductile iron pipe, as part of the project scope.

Attachments:

1. Location Map
2. Two (2) Original Consultant Services Authorization No. 8

Recommended By: _____ 2/28/13
Department Director **Date**

Approved By: _____ 3/31/13
Assistant County Administrator **Date**

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2013	2014	2015	2016	2017
Capital Expenditures	$169,135.72	0	0	0	0
External Revenues	0	0	0	0	0
Program Income (County)	0	0	0	0	0
In-Kind Match County	0	0	0	0	0
CCRT Funds	0				
NET FISCAL IMPACT	$169,135.72	0	0	0	0
# ADDITIONAL FTE POSITIONS (Cumulative)	0	0	0	0	0

Budget Account No.: Fund 4011 **Dept** 721 **Unit** W031 **Object** 6543

Is Item Included in Current Budget? Yes X No ____

Reporting Category **N/A**

B. Recommended Sources of Funds/Summary of Fiscal Impact:

One (1) time capital expenditure from user fees with balance brought forward.

C. Department Fiscal Review: _____

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development and Control Comments:

_____ 3/6/2013
OFMB

_____ 3/18/13
Contract Development and Control

B. Legal Sufficiency:

_____ 3/20/13
Assistant County Attorney

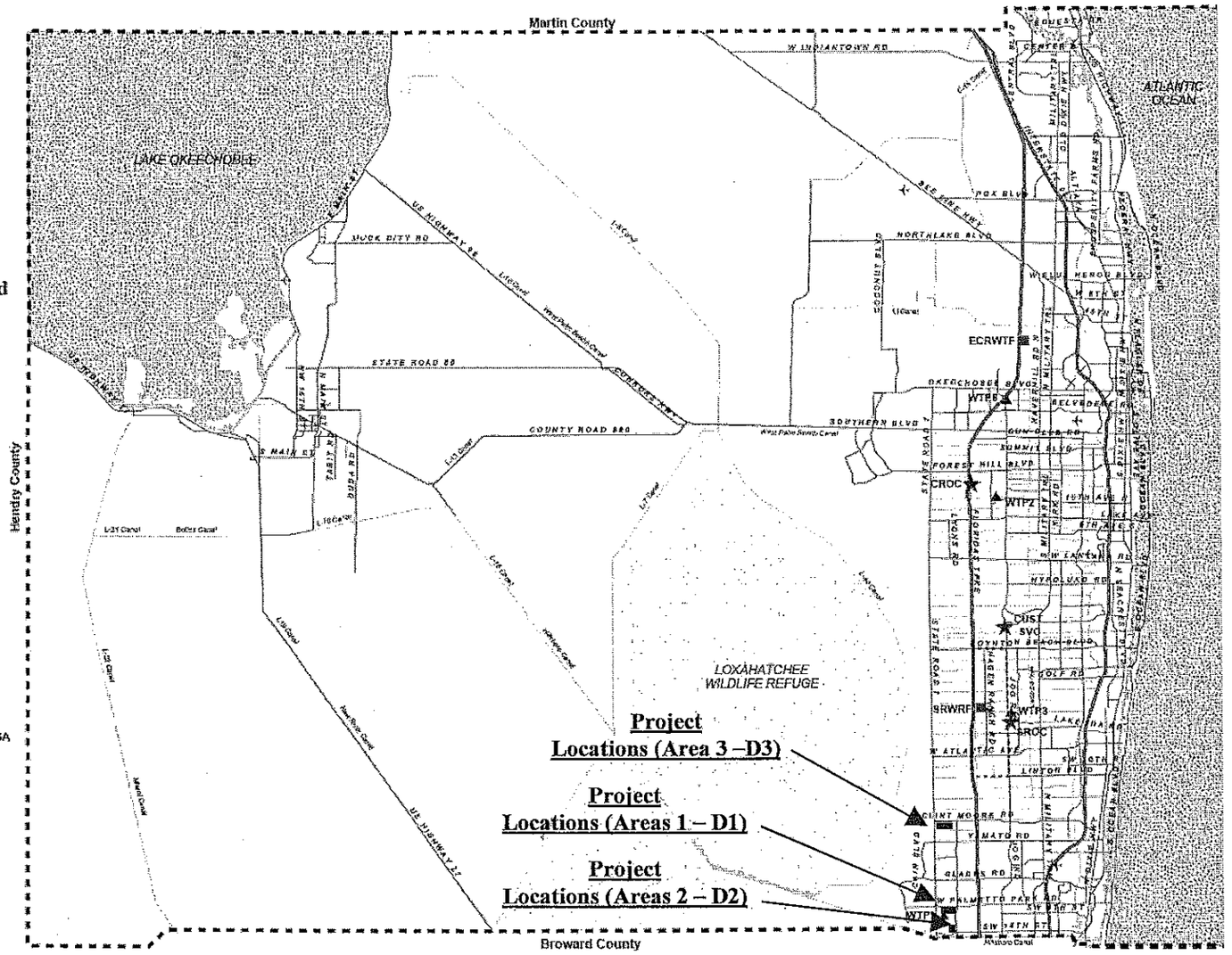
C. Other Department Review:

_____
Department Director

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

Attachment 1

Palm Beach County Water Utilities Department Service Area (SA) and Major Facilities



Project Name WUD 13-031: South County Water Services Replacement – Phase III

CONSULTANT SERVICES AUTHORIZATION NO. 8

Project No. WUD 13-031
Budget Line Item No. 4011-721-W031-6543

Project Title: South County Water Services Replacement – Phase III

District No.: 5

THIS AUTHORIZATION # 8 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 **66.01%** overall participation. The cumulative SBE participation, including this authorization is **80.28%** 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 survey, geotechnical (soil borings and pavement cores) and design engineering services for the replacement of 376 water service lines, 1,750 linear feet of 4-inch asbestos cement (AC) water main and 7,300 linear feet of 6-inch asbestos cement (AC) water main with all fittings, and appurtenances within southwest and northwest Boca Raton (See Attachments D1, D2 and D3).

See EXHIBIT "A" for the detail scope of work.

4. Services completed by the Consultant to date:

See EXHIBIT "B" and "C".

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:

   A. Computation of time charges plus expenses, not to exceed **N/A**

   B. Fixed price of **$169,135.72**

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 13-031 AUTHORIZATION NO. 8
Budget Line Item No. 4011-721-W031-6543

8. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated 05/03/2011 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.

CONSULTANT:

FIRM: A.D.A. Engineering, Inc.

Signed: _____

Typed Name: Alex Vazquez

Title: Vice President

Date: 2/19/2013

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

Signed: _____

Typed Name: **Steven L. Abrams, Mayor**

ATTEST:

Sharon R. Bock, Clerk & Comptroller

_____
(Deputy Clerk)

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY:

_____
(County Attorney

EXHIBIT A

CONSULTANT SERVICES AUTHORIZATION NO. 8

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
ENGINEERING/PROFESSIONAL SERVICES

SCOPE OF WORK
FOR

SOUTH COUNTY WATER SERVICES REPLACMENT PROJECT – PHASE III

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 water service line and water main (W.M.) replacement within southwest and northwest Boca Raton.

BACKGROUND

This project includes installing or replacing approximately 376 water service lines, 1,750 linear feet of 4-inch AC water main and 7,300 linear feet of 6-inch AC water main with all fittings and appurtenances in southwest and northwest Boca Raton (See Attachments D1, D2 and D3).

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:

1. Assist CONSULTANT in obtaining as-built drawings for existing potable water, reclaim water and sanitary water mains within the project limits.
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. Perform all the necessary plan reproductions.
5. Provide all construction and final certification services required for the project.

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 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 of the project areas:

AREA 1 – (Water Main Replacement shown in Attachment D-1):

1. Set random horizontal control points throughout the area limits. Horizontal control will be based up North American Datum 1983 (NAD83), latest adjustment as broadcasted by FPRN (Florida Primary Reference Network).
2. GPS vertical control elevations will be established based upon North American Vertical Datum 1988 (NAVD88) derived from the FPRN. Any values that are in National Geodetic Vertical Datum 1929 (NGVD29) will be converted to NAVD 88 utilizing the NGS (National Geodetic Survey) VERTCON program.
3. Complete a topographic survey for horizontal information within the existing side street right of ways. Topographic features to include above ground utility features (valves, meter boxes, manholes, risers, etc.), catch basins, trees with DBH and generic names (not scientific), edges of roadway, driveways, power poles and sidewalks.
4. For each drainage structure within the right of way, CONSULTANT will obtain the rim elevation, invert elevations, size and type of each pipe along with the bottom elevation of the structure.
5. Cross sections with elevations will be taken approximately every 200' from right of way to right of way.
6. Locate sufficient subdivision monumentation to establish existing right of way and lot line information. This information will be approximate and not intended to be utilized as a boundary survey.
7. Provide up to 15 Utility Locates (test holes) on potential utility conflicts as directed by the design engineer.
8. Deliver AutoCAD base file depicting a calculated baseline of survey for the exiting side streets, lot lines, subdivision right of way, drainage information, horizontal features as previously mentioned along with elevations obtained approximately every 200 feet.
9. The previously provided AutoCAD file will be updated with the horizontal location of each test hole completed along with a noted displaying the depth, pipe material, size and type of found utility.

AREA 1 – (Water Service Line Replacement Area shown in Attachment D-1):

1. Utilizing RTK survey methods and the FPRN, locate the following along the project corridor: edge of pavement, driveways, sidewalks, water valves, water meter boxes, power poles, manholes, hydrants, catch basins, etc.
2. Locate sufficient subdivision monumentation to establish existing right of way and lot line information. This information will be approximate and not intended to be utilized as a boundary survey.
3. Trees lying within 10' of a perpendicular line from the edge of pavement to a water meter box will be located with DBH and generic names (not scientific)

4. Deliver AutoCAD base file depicting a calculated baseline of survey for the exiting side streets, lot lines, subdivision right of way, and the horizontal location of each mapped feature as stated above.

AREA 2 – (Water Service Line Replacement shown in Attachment D-2):

1. Utilizing RTK survey methods and the FPRN, locate the following along the project corridor: edge of pavement, driveways, sidewalks, water valves, water meter boxes, power poles, manholes, hydrants, catch basins, etc.
2. Locate sufficient subdivision monumentation to establish existing right of way and lot line information. This information will be approximate and not intended to be utilized as a boundary survey.
3. Trees lying within 10' of a perpendicular line from the edge of pavement to a water meter box will be located with DBH and generic names (not scientific).
4. Deliver AutoCAD base file depicting a calculated baseline of survey for the exiting side streets, lot lines, subdivision right of way, and the horizontal location of each mapped feature as stated above.

AREA 3 – (Water Service Line Replacement shown in Attachment D-3):

1. Utilizing RTK survey methods and the FPRN, locate the following along the project corridor: edge of pavement, driveways, sidewalks, water valves, water meter boxes, power poles, manholes, hydrants, catch basins, etc.
2. Locate sufficient subdivision monumentation to establish existing right of way and lot line information. This information will be approximate and not intended to be utilized as a boundary survey.
3. Trees lying within 10' of a perpendicular line from the edge of pavement to a water meter box will be located with DBH and generic names (not scientific).
4. Deliver AutoCAD base file depicting a calculated baseline of survey for the exiting side streets, lot lines, subdivision right of way, and the horizontal location of each mapped feature as stated above.

1.1.2 Utility Location:

Potholing will be performed as necessary in locations where utility conflicts are anticipated. It is assumed that the majority of potholes will be needed in Area 1, where the work includes water main replacement. Where water service line replacements are the only installation, no potholing is anticipated. Considering that the length of water main replacement is approximately 9,050 linear feet, it is assumed that there will be no more than 15 potholes required (approximately 1 pothole per 600 feet). For each pot hole test, the following information will be obtained of each pipe located: horizontal location, depth of top of pipe, size, material and type.

1.2 Soil Borings and Pavement Cores

The CONSULTANT will retain the services of Dunkelberger Engineering and Testing, Inc. to obtain soil boring and pavement core information. The geotechnical engineering evaluation of the three utility sites will involve the following scope of work.

1. Field mark boring and pavement core locations for subsurface exploration and clear those locations for underground utilities through Sunshine State One Call. The scope of work includes four (4) boring locations in Area 1 and three (3) pavement core locations in each of Areas 2 and 3. The borings will also be sited in pavement areas.

2. Mobilize a truck-mounted drilling rig and drill four Standard Penetration Test (SPT) borings, each to a depth of 10 feet below land surface. The boreholes will be backfilled with neat cement grout and surfaced with asphalt cold patch. The existing pavement section will be measured at each boring location.

3. Cut cores of the existing asphalt pavement at six locations (three each in Areas 2 and 3) using a high speed rotary drill and diamond studded core barrel. The pavement cores will extend through the base course section.

4. Samples from the borings and pavement cores will be examined in the laboratory and classified in accordance with the Unified Soil Classification System (ASTM D 2487) and appropriate geologic nomenclature. Representative samples will be tested for index properties such as moisture and grain size distribution.

5. Submit a geotechnical engineering report with factual data from the borings, existing pavement sections, recommendations for excavations, dewatering, pipe bedding, backfill materials, compaction requirements, and related construction.

Task 2 - Water Service Line and Water Main Design:

The CONSULTANT will prepare and furnish the water service line and water main replacement plans at 1" = 20' scale on 24" x 36" drawing size. Profile sheets will only be provided for water main replacement (approximately 9,050 feet of Area 1). Water service line replacement plans will be described in plan view (approximately 22,000 feet of Areas 1, 2 and 3). All water service line connection types will be included under detail sheets. 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 46 sheets with the sheet descriptions as follows:

Sheet 1:	Cover Sheet
Sheet 2:	Key Map
Sheet 3:	Survey Control Plan
Sheet 4:	Quantities and General Water Main Notes
Sheets 5-24:	Plan View for Water Service Lines
Sheets 25-40:	Plan and Profile View for Water Main
Sheet 41:	Water Service Line Details
Sheet 42:	Pavement and Landscape Restoration Details
Sheets 43-46:	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 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 shall submit two (2) sets of black line drawings at each interim stage of completion 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 Engineering, Fire Department, and the Palm Beach County Health Department.

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 pre-application meetings with the staff of each regulatory agency.
2. Attend meetings with each of the regulatory agencies during review of the final permit applications as required.
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 (PBCWUD to provide hydraulic calculations/data as may be required by PBCHD)

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. Aerial crossings or horizontal directional drilling will not be required as part of this project.
2. PBCWUD latest construction standards will be incorporated into the water main system design.
3. 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.
4. Bid and award services will not be performed as part of this project.

COMPENSATION

COUNTY agrees to pay CONSULTANT a fix fee of **$169,135.72** 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.

M/WBE PARTICIPATION

As prescribed under Section 7.5 of the CONTRACT, M/WBE participation is included in Attachment C and Exhibit C under this Authorization. The attached Schedule 1 (Attachment C) defines the M/WBE participation for this Consultant Services Authorization, and Schedule 2 defines the summary of SBE/Minority Business tracking for this and all approved Consultant Services Authorizations.

ATTACHMENT – A	Budget Summary
ATTACHMENT – B	Project Schedule
ATTACHMENT – C	SBE-M/WBE Schedules 1&2
ATTACHMENT – D	Project Location Map
ATTACHMENT – D.1	Project Map for Area 1
ATTACHMENT – D.2	Project Map for Area 2
ATTACHMENT – D.3	Project Map for Area 3

ATTACHMENT A

CONSULTANT SERVICES AGREEMENT (CSA) No 8
SOUTH COUNTY WATER SERVICES REPLACEMENT - PHASE III
BUDGET SUMMARY

8/21/2012

Task No.	Task Description	Labor Classifications and Hourly Rates								ADA Totals		Sub-Consultant Services		Total Sub-Consultant Services
		Chief Engineer QA/QC $70	Project Manager $63	Senior Engineer $54	Project Engineer $44	Engineer $39	Inspector $29	CADD Technician $28	Admin $20	Total Hours	Total Labor	Cardno TBE	Dunkelberger Engineering (DET)	
1.1	Survey and Utility Location			2	4					6	$284.00	$51,469.84		$51,469.84
1.2	Soil Borings and Pavement Cores									0	$0.00		$6,016.74	$6,016.74
2.1	As-Built Review			4	8					12	$568.00			$0.00
2.1.1	Site Visits (3 Half-Day Trips)			12	12					24	$1,176.00			$0.00
2.1.2	Survey and As-Built Basemap Submittal		2	16	32			80	1	131	$4,658.00			$0.00
2.2	30% Design Submittal (45 sheets expected)	2	6	32	60			120	2	222	$8,286.00			$0.00
2.3	60% Design Submittal (45 sheets expected)	1	4	24	48			80	2	159	$6,010.00			$0.00
2.3.1	60% Opinion of Probable Construction Cost		1	2	4					7	$347.00			$0.00
2.4	90% Design Submittal (45 sheets expected)	1	2	24	32			60	2	121	$4,620.00			$0.00
2.4.1	90% Opinion of Probable Construction Cost		1	1	2					4	$205.00			$0.00
2.5	100% Design Submittal (45 sheets expected)	1	2	16	24			40	1	84	$3,256.00			$0.00
2.5.1	100% Opinion of Probable Construction Cost		1	1	2					4	$205.00			$0.00
3.1	Attend Pre-Application Meetings (PBC & PBCHD)			4	8					12	$568.00			$0.00
3.2	Prepare and Submit Permit Applications (PBC & PBCHD		2	24	32				2	60	$2,870.00			$0.00
3.3	Respond to RAI (PBC & PBCHD)		1	8	16				1	26	$1,219.00			$0.00
										0	$0.00			$0.00
										0	$0.00			$0.00
	Subtotal Task 1	5	22	170	284	0	0	380	11	872	$34,272.00	$51,469.84	$6,016.74	$57,486.58
	LABOR TOTAL HOURS	5	22	170	284	0	0	380	11	872				
	LABOR RAW COSTS	$350.00	$1,386.00	$9,180.00	$12,496.00	$0.00	$0.00	$10,640.00	$220.00		$34,272.00			
	LABOR MULTIPLIER	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0					
	LOADED LABOR COST	$1,050.00	$4,158.00	$27,540.00	$37,488.00	$0.00	$0.00	$31,920.00	$660.00		$102,816.00	$51,469.84	$6,016.74	$57,486.58
	TOTAL LABOR COST	$102,816.00												
	SUB-CONSULTANT COSTS TOTAL	$57,486.58												
	SUB-CONSULTANT MULTIPLIER	1.1												
	CONSULTANT TOTAL	$63,235.24												
	REIMBURSABLE EXPENSES	$3,084.48												
	TOTAL PROJECT FEE	$169,135.72												

ATTACHMENT - B

PROJECT SCHEDULE

SCHEDULE

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

Engineering Services	*Completion Date From Notice to Proceed*
30% Design	6 Weeks
60% Design	4 Weeks
90% Design	4 Weeks
100% Design	2 Weeks
Permitting	2 Weeks
	Total 150 Calendar Days

ATTACHMENT C

SCHEDULE #1

LIST OF PROPOSED SBE-M/WBE PRIME/SUBCONTRACTORS

PROJECT NAME: South County Water Services Replacement - Phase III PROJECT NUMBER: WUD 13-031

PROJECT OF PRIME BIDDER: A.D.A. Engineering, Inc. ADDRESS: 1800 Old Okeechobee, Suite 202, West Palm Beach, FL 33409
CONTACT PERSON: Alex Vazquez, PE PHONE NO.: 561-615-8880, Ext 201 FAX NO.: 561-615-8858
BID OPENING DATE: N/A DEPARTMENT: Water Utilities

PLEASE IDENTIFY ALL APPLICABLE CATEGORIES

Name, Address and Telephone Number of Minority Contractor	(Check one or both Categories) Minority Business	Small Business	Dollar Amount Black	Hispanic	Woman	Caucasian	Other (Please Specify)
A.D.A. Engineering, Inc. 1800 Old Okeechobee Rd, Suite 202 West Palm Beach, FL 33409 (561) 615-8880	☑	☐	$ -	$111,649.14	$ -	$ -	$ -
	☐	☐	$ -	$ -	$ -	$ -	$ -
	☐	☐	$ -	$ -	$ -	$ -	$ -
	☐	☐	$ -	$ -	$ -	$ -	$ -
	☐	☐	$ -	$ -	$ -	$ -	$ -
PRIME CONTRACTOR TO COMPLETE:		TOTAL	$ -	$111,649.14	$ -	$ -	$ -

BID PRICE: **$169,135.72** Total Value of SBE Participation **$111,649.14**

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

EXHIBIT - B

AUTHORIZATION STATUS REPORT
GENERAL UTILITY, ARCHITECTURAL AND VALUE ENGINEERING SERVICES

SUMMARY AND STATUS OF REQUESTS FOR AUTHORIZATIONS

Auth. No.	Description	Status	Project Total Amount	Date Approved	WUD No. Assigned	ADA Project No.
1	WATERGATE MOBIL PARK DESIGN SUPPORT	Approved	$78,707.20	07/06/11	WUD 06-187	C178-0211-1
2	HAVERHILL ROAD AND OKEECHOBEE BOULEVARD INTERSECTION sue SERVICES	Approved	$16,320.89	08/09/11	WUD 11-126	C178-0211-2
2.1	HAVERHILL ROAD AND OKEECHOBEE BOULEVARD INTERSECTION SUE ADDITIONAL SERVICES	Approved	$8,613.85	09/23/11	WUD 11-126	C178-0211-2
3	WTP 3 and 8 NEW PRODUCTION WELLS	Approved	$91,520.00	11/04/11	WUD 12-006	C178-0211-3
3.1	WTP 3 and 8 NEW PRODUCTION WELLS SUPPLEMENTAL NO 1	Approved	$37,741.88	10/09/12	WUD 12-006	C178-0211-3
4	SIMS ROAD 12-INCH WATER MAIN EXTENSION	Approved	$18,304.00	07/18/12	WUD 08-058	C178-0211-4
5	MEADOWBROOK DRIVE AND L-2 CANAL CROSSING REPLACEMENT	Approved	$18,304.00	07/05/12	WUD 11-034	C178-0211-5
5.1	MEADOWBROOK DRIVE AND L-2 CANAL CROSSING REPLACEMENT SUPPLEMENTAL NO 1	Approved	$4,576.00	10/09/12	WUD 11-034	C178-0211-5
6	LIFT STATION 5229 BY-PASS	Approved	$36,608.00	07/05/12	WUD 11-035	C178-0211-6
6.1	LIFT STATION 5229 BY-PASS SUPPLEMENTAL NO 1	Approved	$36,608.00	10/17/12	WUD 11-035	C178-0211-6
7	8-IN MAIN REPLACEMENT AT JOG RD BETWEEN ATLANTIC AND LINTON BLVD	Approved	$41,133.95	01/04/13	WUD 12-046	C178-0211-7
8	SOUTH COUNTY WATER SERVICES REPLACEMENT PROJECT	Pending	$169,135.72		WUD 13-031	C178-0211-8
Total			$557,573.49			

EXHIBIT - C

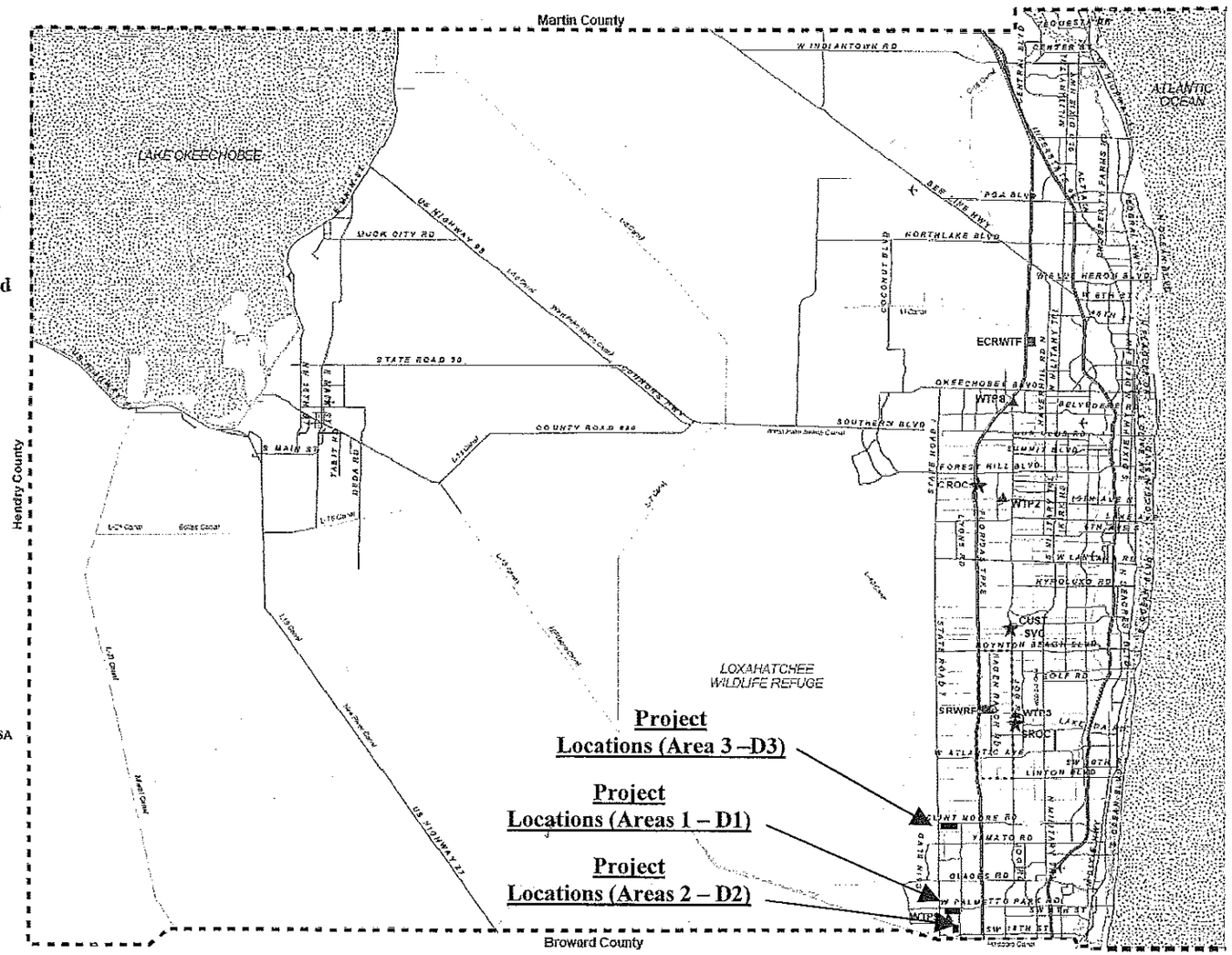
AUTHORIZATION STATUS REPORT
GENERAL UTILITY, ARCHITECTURAL AND VALUE ENGINEERING SERVICES

SUMMARY OF
SMALL BUSINESS TRACKING SYSTEM

	Total
Current Proposal	
Value of Authorization No. 8:	$169,135.72
Value of SBE Letters of Intent	$111,649.14
Actual Package	66.01%
Signed Authorizations	
Total Value of Authorizations	$388,437.77
Total Value of SBE Signed Subcontracts	$336,008.16
Actual Percentage	86.50%
Signed Authorizations Plus Current Proposal	
Total Value of Authorizations	$557,573.49
Total Value of Subcontracts & Letters of Intent	$447,657.30
Actual Percentage	80.28%
GOAL	87.00%

ATTACHMENT D

Palm Beach County Water Utilities Department Service Area (SA) and Major Facilities

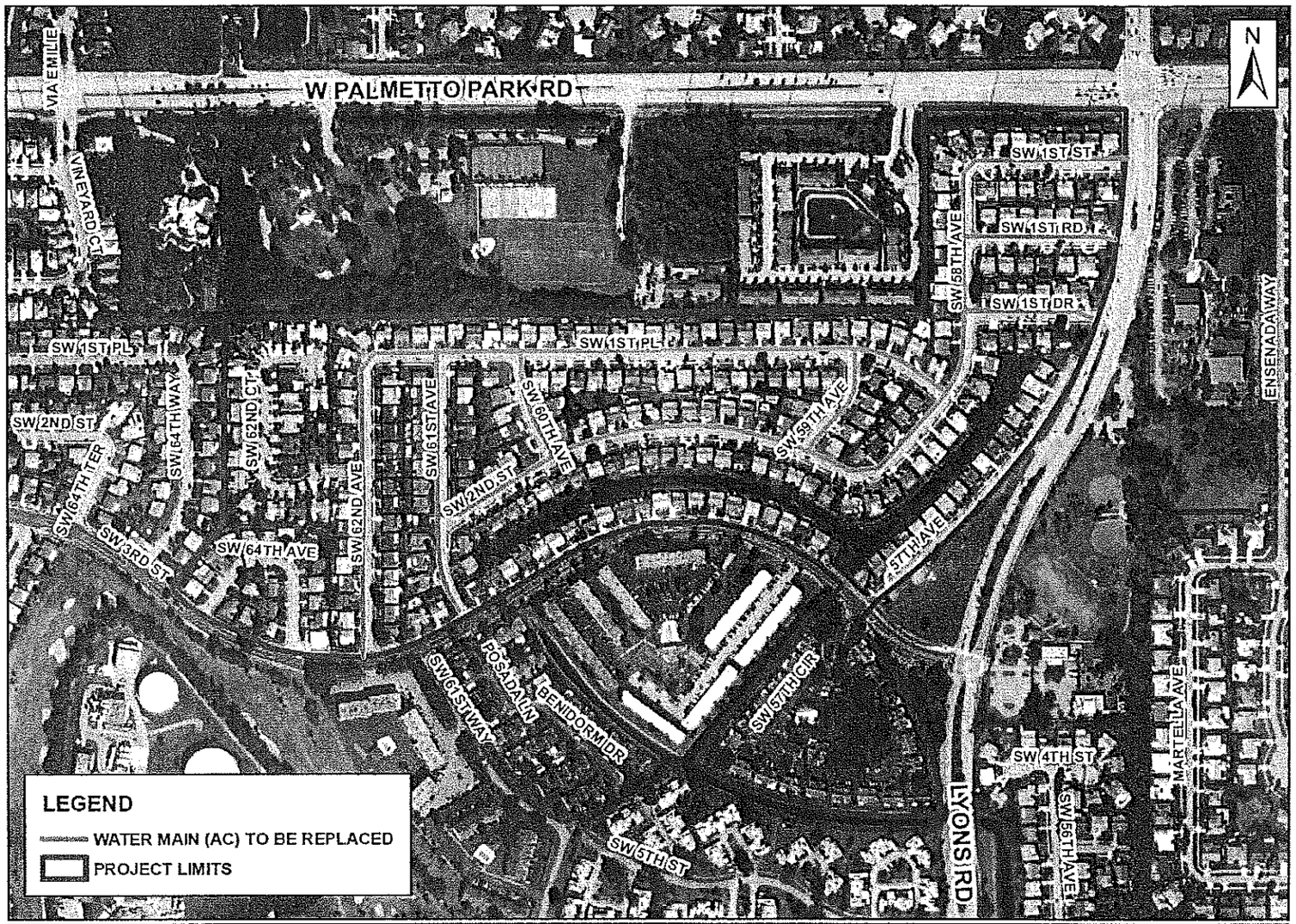


Legend

- P.B.C.W.U.D. SA
- MANDATORY RECLAIMED SA
- COUNTY LIMITS
- Administration
- Water Reclamation Plant
- Water Treatment Plant
- Wetlands

Project Name WUD 13-031: South County Water Services Replacement – Phase III

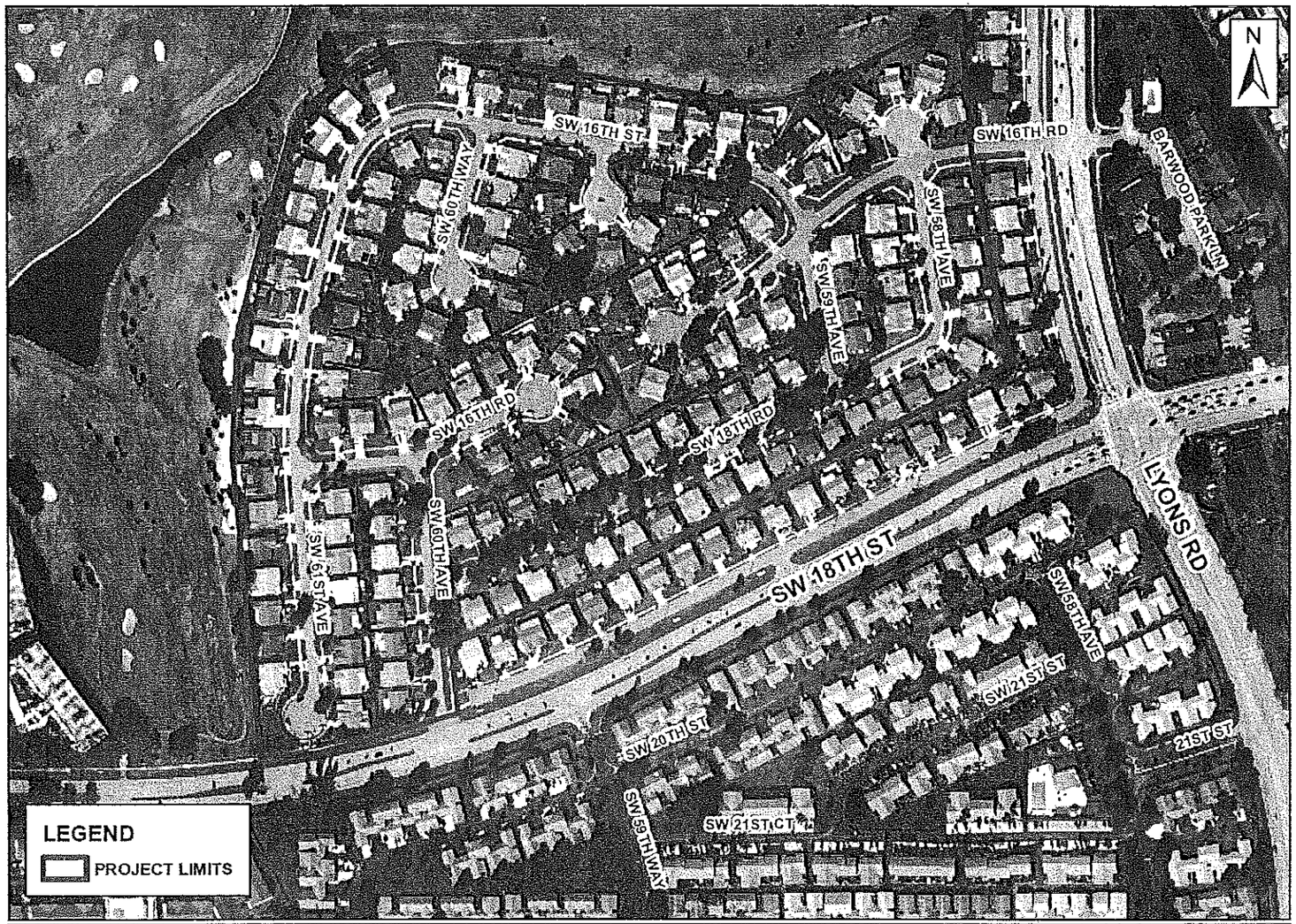
ATTACHMENT D-1
AREA 1



SOUTH COUNTY WATER SERVICES REPLACEMENT PROJECT PHASE III
ATTACHMENT D.1: PROJECT MAP FOR AREA 1

1 inch = 400 feet

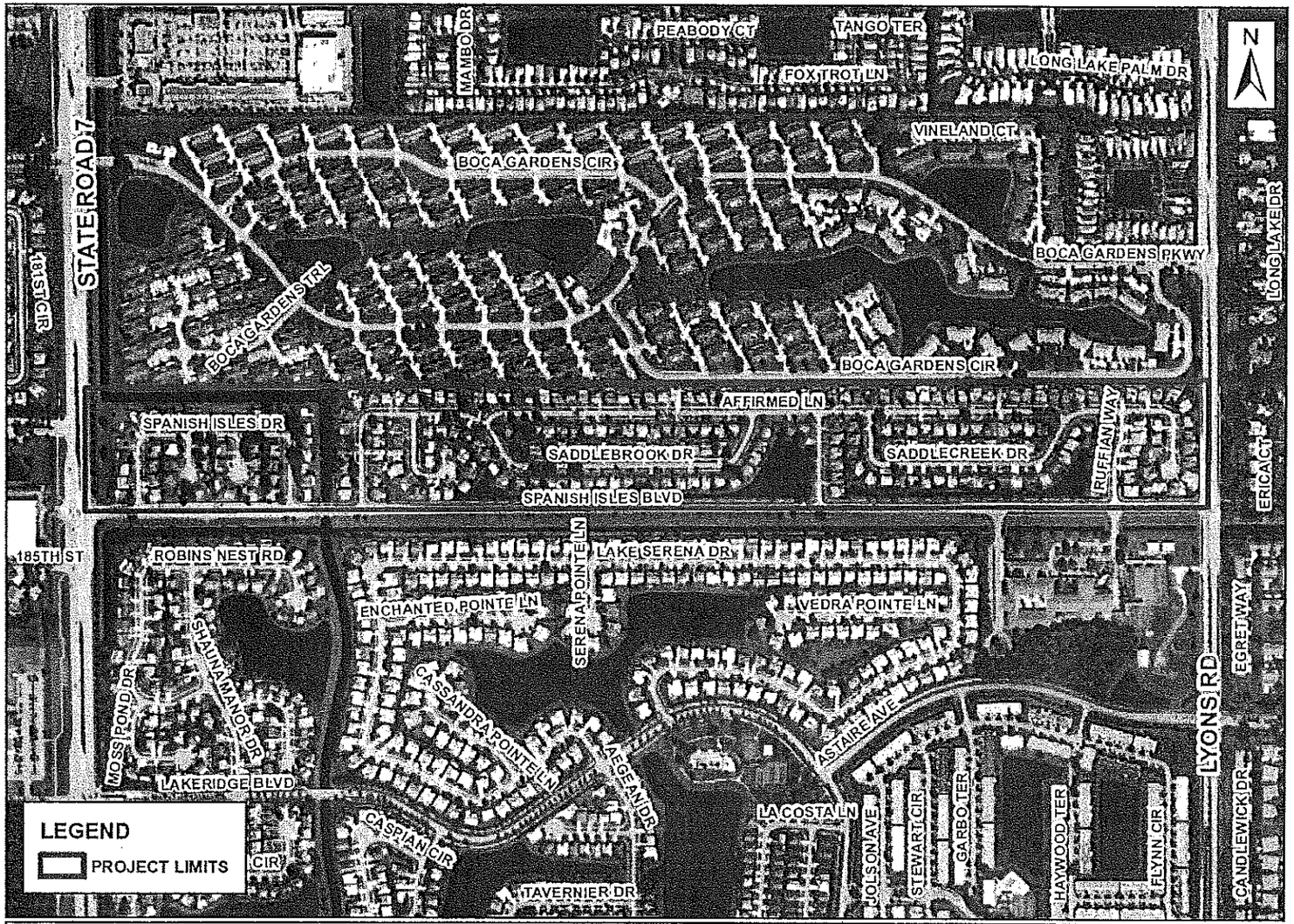
ATTACHMENT D-2
AREA 2



SOUTH COUNTY WATER SERVICES REPLACEMENT PROJECT PHASE III
ATTACHMENT D.2: PROJECT MAP FOR AREA 2

1 inch = 250 feet

ATTACHMENT D-3
AREA 3



SOUTH COUNTY WATER SERVICES REPLACEMENT PROJECT PHASE III
ATTACHMENT D.3: PROJECT MAP FOR AREA 3

1 inch = 600 feet

February 8, 2013

Cardno TBE

3427 NW 55th 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: South County Water Services Replacement Project – Phase III

Mr. Vazquez:

Cardno TBE appreciates the opportunity to provide surveying and SUE (subsurface utility engineering) support services on this very important project.

Scope of Services

AREA 1 – See attached exhibit for project limits (Water Main Replacement):

1. Set random horizontal control points throughout the area limits. Horizontal control will be based up North American Datum 1983 (NAD83), latest adjustment as broadcasted by FPRN (Florida Primary Reference Network) – State Plan Coordinate System.
2. GPS vertical control elevations will be established based upon North American Vertical Datum 1988 (NAVD88) derived from the FPRN. An approximate conversion value from NAVD 88 to NGVD29 will be provided.
3. Complete a topographic survey for horizontal information within the existing side street right of ways. Topographic features to include above ground utility features (valves, meter boxes, manholes, risers, etc.), catch basins, trees with DBH and generic names (not scientific), edges of roadway, power poles, driveways and sidewalks.
4. For each drainage structure within the right of way, Cardno TBE will obtain the invert elevations, rim elevations, size and type of each pipe along with the bottom elevation of the structure.
5. Cross sections with elevations will be taken approximately every 200' from right of way to right of way.
6. Locate sufficient subdivision monumentation to establish existing right of way and lot line information. This information will be approximate and not intended to be utilized as a boundary survey.
7. Provide up to 15 Utility Locates (test holes) on potential utility conflicts as directed by the design engineer.
8. Deliver AutoCAD base file depicting a calculated baseline of survey for the

exiting side streets, lot lines, subdivision right of way, drainage information, horizontal features as previously mentioned along with elevations obtained approximately every 200 feet.

9. If utility locates are requested, the previously provided AutoCAD file will be updated with the horizontal location of each test hole completed along with a noted displaying the depth, material, size and type of found utility.

AREA 1 – See attached exhibit for project limits (Service Replacement Area):

1. Utilizing RTK survey methods and the FPRN, locate the following along the project corridor: edge of pavement, driveways, sidewalks, water valves and water meter boxes, power poles, manholes, hydrants, catch basin, etc.
2. Locate sufficient subdivision monumentation to establish existing right of way and lot line information. This information will be approximate and not intended to be utilized as a boundary survey.
3. Trees lying within 10' of a perpendicular line from the edge of pavement to a water meter box will be located with DBH and generic names (not scientific)
4. Deliver AutoCAD base file depicting a calculated baseline of survey for the exiting side streets, lot lines, subdivision right of way, and the horizontal location of each mapped feature as stated above. Elevations are not included.

AREA 2 – See attached exhibit for project limits:

1. Utilizing RTK survey methods and the FPRN, locate the following along the project corridor: edge of pavement, driveways, sidewalks, water valves and water meter boxes, power poles, manholes, hydrants, catch basin, etc.
2. Locate sufficient subdivision monumentation to establish existing right of way and lot line information. This information will be approximate and not intended to be utilized as a boundary survey.
3. Trees lying within 10' of a perpendicular line from the edge of pavement to a water meter box will be located with DBH and generic names (not scientific).
4. Deliver AutoCAD base file depicting a calculated baseline of survey for the exiting side streets, lot lines, subdivision right of way, and the horizontal location of each mapped feature as stated above. Elevations are not included in AREA 2.

AREA 3 – See attached exhibit for project limits:

5. Utilizing RTK survey methods and the FPRN, locate the following along the project corridor: edge of pavement, driveways, sidewalks, water valves and water meter boxes, power poles, manholes, hydrants, catch basin, etc.
6. Locate sufficient subdivision monumentation to establish existing right of way and lot line information. This information will be approximate and not intended to be utilized as a boundary survey.
7. Trees lying within 10' of a perpendicular line from the edge of pavement to a water meter box will be located with DBH and generic names (not scientific).

8. Deliver AutoCAD base file depicting a calculated baseline of survey for the exiting side streets, lot lines, subdivision right of way, and the horizontal location of each mapped feature as stated above. Elevations are not included in AREA 3.

Palm Beach County Permit

Cardno TBE will apply for a Right of Way Permit through Palm Beach County Engineering, Land Development Division.

- If Utility Locates are requested, pavement restoration under this scope and fee estimate includes "Cold Pavement Patch" only. If additional restoration requirements are necessary and additional fee proposal to cover the additional expense will be provided.

AREA 1

Office Support/Field Effort - Survey					
	Rate per Hour	Multiplier	Loaded Rate	Est. Hours	Est. Fees
Project Manager	$59.39	3.0	178.17	5.00	$ 890.85
Senior Surveyor and Mapper	$43.20	3.0	129.60	20.00	$ 2,592.00
Surveyor and Mapper	$37.60	3.0	112.80	1.00	$ 112.80
SUE Manager	$34.66	3.0	103.98	1.00	$ 103.98
Survey Technician	$28.85	3.0	86.55	40.00	$ 3,462.00
Survey Party Chief	$21.97	3.0	65.91	128.00	$ 8,436.48
Instrument Man	$15.00	3.0	45.00	128.00	$ 5,760.00
Administrative Assistant	$24.02	3.0	72.06	2.00	$ 144.12
Survey Truck	$26.00	1.0	26.00	128.00	$ 3,328.00

Sub Total: $24,830.23

Office Support/Field Effort – Utility Locates (Test Holes)					
	Rate per Hour	Multiplier	Loaded Rate	Est. Hours	Est. Fees
Project Manager	$59.39	3.0	178.17	1.50	$ 267.26
Senior Surveyor and Mapper	$43.20	3.0	129.60	3.00	$ 388.80
Surveyor and Mapper	$37.60	3.0	112.80	6.00	$ 676.80
Utility Locator	$26.74	3.0	80.22	30.00	$ 2,406.60
Engineering Technician	$21.00	3.0	63.00	30.00	$ 1,890.00
Locating Truck	$53.00	1.0	53.00	30.00	$ 1,590.00

Sub Total: $7,219.46

- $481.30/test hole (minimum 5 per request)

Office Support/Field Effort – R/W Permit - PBC					
	Rate per Hour	Multiplier	Loaded Rate	Est. Hours	Est. Fees
Senior Surveyor and Mapper	$43.20	3.0	129.60	6.00	$ 777.60

Sub Total: $777.60

AREA 2

Office Support/Field Effort - Survey					
	Rate per Hour	Multiplier	Loaded Rate	Est. Hours	Est. Fees
Project Manager	$59.39	3.0	178.17	2.00	$ 356.34
Senior Surveyor and Mapper	$43.20	3.0	129.60	10.00	$ 1,296.00
Survey Technician	$28.85	3.0	86.55	24.00	$ 2,077.20
Survey Party Chief	$21.97	3.0	65.91	32.00	$ 2,109.12
Instrument Man	$15.00	3.0	45.00	32.00	$ 1,440.00
Administrative Assistant	$24.02	3.0	72.06	1.00	$ 72.06
Survey Truck	$26.00	1.0	26.00	32.00	$ 832.00

Sub Total: $8,182.72

AREA 3

Office Support/Field Effort - Survey					
	Rate per Hour	Multiplier	Loaded Rate	Est. Hours	Est. Fees
Project Manager	$59.39	3.0	178.17	2.00	$ 356.34
Senior Surveyor and Mapper	$43.20	3.0	129.60	10.00	$ 1,296.00
Survey Technician	$28.85	3.0	86.55	25.00	$ 2,163.75
Survey Party Chief	$21.97	3.0	65.91	48.00	$ 3,163.68
Instrument Man	$15.00	3.0	45.00	48.00	$ 2,160.00
Administrative Assistant	$24.02	3.0	72.06	1.00	$ 72.06
Survey Truck	$26.00	1.0	26.00	48.00	$ 1,248.00

Sub Total: $10,459.83

Total Lump Sum Amount: $51,469.84

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

A.D.A. Engineering, Inc.
1800 Old Okeechobee Road, Suite 202
West Palm Beach, Florida 33409

January 22, 2013
Project No. WPB-13-8445
BG21.1

Attention: Mr. Brent Whitfield, P.E.

Subject: ***Proposal, Geotechnical Engineering Services***
Water Service Improvements for Various South County Locations, Palm Beach County, Florida

Dear Mr. Whitfield:

INTRODUCTION

Pursuant to your January 16, 2013 request for proposal, Dunkelberger Engineering & Testing, Inc. (Dunkelberger) is pleased to submit this proposal for geotechnical engineering services related to the evaluation of the subsurface conditions within three residential neighborhoods in South Palm Beach County, Florida. Presented hereafter are a description of the services to be provided and a schedule for implementation of the work. Compensation for the work is also discussed.

PROJECT CONSIDERATIONS

We understand that Palm Beach County Water Utilities is planning to improve potable water service for three areas. These are situated as follows:

- Area 1 – Southwest quadrant of the intersection of Lyons Road and Palmetto Park Road.
- Area 2 - Northwest quadrant of the intersection of Lyons Road and SW 18th Street.
- Area 3 – Just north of Spanish River Boulevard, between SR 7 and Lyons Road.

An evaluation of the subsurface conditions is required at this time. This is to include the determination of the existing pavement section, subsurface stratigraphy, groundwater levels, and the presence of and hardness of rock formations. Specifically, the scope is to include exploratory borings in Area 1, and pavement cores in Areas 2 and 3. Dunkelberger proposes to provide these services as subconsultant to A.D.A Engineering. Unit rates included in this proposal are consistent with our current continuing services contract with Palm Beach County.

SCOPE OF WORK

Geotechnical engineering evaluation of the three utility sites will involve the following scope of work.

1. Field mark boring and pavement core locations for subsurface exploration and clear those locations for underground utilities through Sunshine State One Call. We have budgeted four boring locations in Area 1 and three pavement core locations in each of Areas 2 and 3. The borings will also be sited in pavement areas.

2. Mobilize a truck-mounted drilling rig and drill four Standard Penetration Test (SPT) borings, each to a depth of 10 feet below land surface. The boreholes will be backfilled with neat cement grout and surfaced with asphalt cold patch. The existing pavement section will be measured at each boring location.

3. Cut cores of the existing asphalt pavement at six locations (three each in Areas 2 and 3) using a high speed rotary drill and diamond studded core barrel. The pavement cores will extend through the base course section.

4. Samples from the borings and pavement cores will be examined in the laboratory and classified in accordance with the Unified Soil Classification System (ASTM D 2487) and appropriate geologic nomenclature. Representative samples will be tested for index properties such as moisture and grain size distribution.

5. Submit a geotechnical engineering report with factual data from the borings, existing pavement sections, recommendations for excavations, dewatering, pipe bedding, backfill materials, compaction requirements, and related construction.

SCHEDULE

We can begin the work within approximately one week after receiving notice to proceed and expect to complete the field work and laboratory testing within one week thereafter. Our engineering analysis and preparation and submittal of the summary report will require one week for a total project duration of approximately 3 weeks. This schedule assumes that a permit for work in Palm Beach County right-of-way will not be required.

COMPENSATION, PAYMENT AND TERMS

Based upon the scope of work outlined above, we estimate that our services for the work will be billed on a fixed fee basis for a total amount of **$6,016.74**. A breakdown of the estimated fee is presented on Attachment A. The total fee for the work will not be exceeded without due cause and your prior written authorization. Kindly send your work order authorization using this letter as an attachment to same.

Dunkelberger appreciates the opportunity to submit this proposal and looks forward to rendering the services described herein. We trust that the proposal contents are clear and understandable. Should you require any clarification or amplification, however, please contact us.

Very truly yours,

DUNKELBERGER ENGINEERING & TESTING, INC.

Kevin E. Aubry, P.E.
Geotechnical Services Manager

Attachments: A - Fee Estimate Breakdown
cc: Addressee (1) … *via E-Mail*

Project Name:	South County Water Service Improvements											
	ADA Engineering, Inc.											
Dunkelberger Project No.:	WPB-13-8445											
Date:	January 22, 2013											

Dunkelberger Engineering & Testing, Inc.
1225 Omar Road
West Palm Beach, Florida 33405
Ph: (561) 689-4299 Fx: (561) 689-5955 Contact: Kevin E. Aubry, P.E.

Geotechnical Services	Contract Amount				Previously Completed		Completed This Invoice		Completed to Date		Remaining on Contract	
	Qty	Unit	Price	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount
Task 1 - Field & Laboratory Work												
Mark Borings and Utility Clearance - Sen. Engineering Tech.	8	HR	$62.89	$503.12	0	$0.00	0	$0.00	0	$0.00	8	$503.12
Drilling Rig Mobilization	1	EA	$350.00	$350.00	0	$0.00	0	$0.00	0	$0.00	1	$350.00
SPT Borings (4 @ 10 feet deep)	40	FT	$12.00	$480.00	0	$0.00	0	$0.00	0	$0.00	40	$480.00
Grout Seal Boreholes	40	FT	$4.00	$160.00	0	$0.00	0	$0.00	0	$0.00	40	$160.00
Pavement Cores	6	EA	$50.00	$300.00	0	$0.00	0	$0.00	0	$0.00	6	$300.00
Coring Machine plus Generator Rental	1	Day	$250.00	$250.00	0	$0.00	0	$0.00	0	$0.00	1	$250.00
Senior Engineering Technician	16	HR	$62.89	$1,006.24	0	$0.00	0	$0.00	0	$0.00	16	$1,006.24
Traffic Control	0.5	Day	$800.00	$400.00	0	$0.00	0	$0.00	0	$0.00	0.5	$400.00
Moisture Content Tests	8	EA	$10.00	$80.00	0	$0.00	0	$0.00	0	$0.00	8	$80.00
Organic Content Tests	2	EA	$50.00	$100.00	0	$0.00	0	$0.00	0	$0.00	2	$100.00
Grain Size Tests	2	EA	$65.00	$130.00	0	$0.00	0	$0.00	0	$0.00	2	$130.00
Cold Patch Asphalt	1	EA	$50.00	$50.00	0	$0.00	0	$0.00	0	$0.00	1	$50.00
Subtotal				**$3,809.36**		**$0.00**		**$0.00**		**$0.00**		**$3,809.36**
Task 2 - Geotechnical Engineering												
Principal Engineer	0	HR	$146.03	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00
Senior Geotechnical Engineer	4	HR	$124.77	$499.08	0	$0.00	0	$0.00	0	$0.00	4	$499.08
Engineer, P.E.	12	HR	$84.64	$1,015.68	0	$0.00	0	$0.00	0	$0.00	12	$1,015.68
Staff Engineer/Scientist	4	HR	$75.22	$300.88	0	$0.00	0	$0.00	0	$0.00	4	$300.88
CADD Drafting	4	HR	$63.72	$254.88	0	$0.00	0	$0.00	0	$0.00	4	$254.88
Word Processing & Clerical	3	HR	$45.62	$136.86	0	$0.00	0	$0.00	0	$0.00	3	$136.86
Subtotal				**$2,207.38**		**$0.00**		**$0.00**		**$0.00**		**$2,207.38**

Dunkelberger **Total Fee Estimate** **$6,016.74**