

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date: June 3, 2008 Consent [X] Regular []
Public Hearing []
Submitted By: Water Utilities Department
Submitted For: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: **A)** a Contract with Southeast Drilling Services, Inc. for the Floridan and Deep Injection Well Continuing Construction Contract over a 36 month term in a cumulative amount not to exceed \$3,498,800; **B)** Work Authorization No. 1 to perform a repair on the Southern Region Operations Center (SROC) deep injection well in the amount of \$630,000; and **C)** Work Authorization No. 2 to perform mechanical integrity testing of the deep injection well and perform a repair on the monitor well located at Southern Region Pumping Facility (SRPF) in the amount of \$297,000.

Summary: On April 30, 2008, two (2) bids were received for the Water Utilities Department Floridan and Deep Injection Well Continuing Construction Contract with the low bid from Southeast Drilling Services, Inc. in the amount of \$3,498,800. This contract will be used for mechanical integrity tests and repairs to deep injection wells and associated monitor wells. The contract also provides for future Floridan well pump and motor maintenance at the new Lake Region Water Treatment Plant (LRWTP). This contract by itself does not guarantee or authorize Southeast Drilling Services, Inc. to perform any work. Work will be assigned during the 36 month contract period by formal work authorizations. The unit prices contained in this contract will be used in determining the cost of these work authorizations. Work Authorization No. 1 is to perform a repair of the SROC deep injection well for Water Treatment Plant No. 3 (WTP 3) in the amount of \$630,000. Work Authorization No. 2 is to perform a mechanical integrity testing of the deep injection well and to perform a repair of the monitor well for Southern Region Pumping Facility (SRPF) in the amount of \$297,000. The Small Business Enterprise (SBE) participation goal established by the SBE Ordinance (R2002-0064) is 15.00% overall. This contract with Southeast Drilling Services, Inc. provides for SBE participation of 57.16% overall. Work Authorization No. 1 provides for SBE participation of 58.00% overall. Work Authorization No. 2 provides for SBE participation of 58.00% overall. WUD Project Nos. 08-051, 08-020 and 08-062 District 5 and 6 (JM)

Background and justification: Palm Beach County operates six (6) water treatment plants and one (1) wastewater treatment plant with a total of six (6) deep injection wells, seven (7) Floridan wells, two (2) Floridan aquifer storage and recovery wells (ASR's), and twelve (12) monitor wells associated with deep injection and ASR's. Using a continuing construction contract provides an efficient means to maximize productivity. Deep injection wells require periodic mechanical integrity testing under the Florida Department of Environmental Protection (FDEP) permits.

Attachments:

- 1. Two (2) Original Contracts (WUD 08-051)
- 2. Two (2) Original Work Authorization No. 1 (WUD 08-020)
- 3. Two (2) Original Work Authorization No. 2 (WUD 08-062)
- 4. Location Map
- 5. Engineer's Recommendation & Bid Tabulation Sheet
- 6. SBE Compliance Review

Recommended By: [Signature] 5/28/08
Department Director Date

Approved By: [Signature] 6/2/08
Assistant County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2008	2009	2010	2011	2012
Capital Expenditures	<u>\$927,000.00</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Program Income (County)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
In-Kind Match County CCRT	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
NET FISCAL IMPACT	<u>\$927,000.00</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.: Fund 4011 Dept 721 Unit W003 Object 6541 (\$630,000.00)

Budget Account No.: Fund 4001 Dept 720 Unit 2582 Object 4615 (\$297,000.00)

Is Item Included in Current Budget? Yes X No

Reporting Category N/A

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

Work authorizations will be budgeted from the Water Utilities Department Capital Improvement Fund. The sources of Water Utilities funds are user fees, connection fees and balances brought forward. Work Authorization No. 1 is in the amount of \$630,000. Work Authorization No. 2 is in the amount of \$297,000.

C. Department Fiscal Review: Delisa M West

III. REVIEW COMMENTS

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

A. White 5/29/08
OFMB *m* 3/29 *CN* 5/20/08

Dr. J. J. [Signature] 5/30/08
Contract Development and Control *5/30/08*

B. Legal Sufficiency:

[Signature] 5/30/08
Assistant County Attorney

This Contract complies with our contract review requirements.

The Bonds in relation to the Authorizations do not all have an original Power of Attorney.

C. Other Department Review:

Department Director

**WORK AUTHORIZATION NO. 1
WATER UTILITIES DEPARTMENT
DEEP INJECTION WELL AND FLORIDAN WELL
CONTINUING CONSTRUCTION CONTRACT**

Project No. WUD 08-020

District: 5

Budget Line Item No. 4011-721-W003-6541

Project Title: **Site 3 (WTP 3) – Deep Injection Well IW-1, Test and Repair**

THIS AUTHORIZATION # 1 to the Contract for Construction Services dated June 3, 2008 (Resolution/Document 2008-____), by and between Palm Beach County and the Contractor identified herein, is for the Construction Services described in Item 3 of this Authorization. The Contract provides for 15.00% SBE participation overall. This Authorization includes 58.00% overall participation. The cumulative proposed SBE participation, including this authorization is 58.00% overall.

1. CONTRACTOR:
2. ADDRESS:
3. Description of Services to be provided by the Contractor:

See EXHIBIT "A".

4. Services completed by the Contractor to date:

See EXHIBIT "B" and "C".

5. Contractor shall begin work promptly with the following work commencing from the notice to proceed date for each phase of work:

Phase 1 (Bid Item 6)

For DIW Testing:

Substantial Completion 45 Calendar Days,

Final Completion 75 Calendar Days

Liquidated damages will apply in accordance with Paragraph 1.6.1 of the Contract Bid Form

Phase 2 (Bid Item 7)

For DIW Pressure Grout Repair:

Substantial Completion 60 Calendar Days,

Final Completion 90 Calendar Days

Liquidated damages will apply in accordance with Paragraph 1.6.1 of the Contract Bid Form

Phase 3 (Bid Items 8)

For Tube & Packer Removal:

Substantial Completion 60 Calendar Days,

Final Completion 90 Calendar Days

Liquidated damages will apply in accordance with Paragraph 1.6.1 of the Contract Bid Form

6. The compensation to be paid to the Contractor for providing the requested services in accordance with the Contract Bid Prices is \$65,000.00 for Phase 1 and \$185,000.00 for Phase 2 and \$380,000.00 for Phase 3 for a total of \$630,000.00.
7. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated June 3, 2008 remain in full force and effect.

**WORK AUTHORIZATION NO. 1
WATER UTILITIES DEPARTMENT
DEEP INJECTION WELL AND FLORIDAN WELL
CONTINUING CONSTRUCTION CONTRACT**

Project No. WUD 08-020

Project Title: Deep Injection Well IW-1, Test and Repair

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

ATTEST:

Sharon R. Bock
Clerk and Comptroller

BOARD OF COUNTY COMMISSIONERS
PALM BEACH COUNTY

Addie L. Greene, Chairperson

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY

Date

BA 5/29/68

(County Attorney)

CONTRACTOR

ATTEST:

Witness

Daniel J. Baer

(Signature)

W. B. FIEGLER

Daniel J. Baer / Office Manager
(Name and Title)

W. B. FIEGLER / President
(Name and Title)

(CORPORATE SEAL)

Date

EXHIBIT 'A'

WORK AUTHORIZATION NO. 1 PALM BEACH COUNTY WATER UTILITIES DEPARTMENT ENGINEERING/PROFESSIONAL SERVICES

SCOPE OF WORK FOR Deep Injection Well IW-1, Test and Repair

INTRODUCTION

Palm Beach County (County) entered into a Contract for Construction Services dated June 3, 2008 (Resolution/Document 2008 - _____), by and between Palm Beach County and Southeast Drilling Services, Inc., for the Construction Services of this Authorization.

This Contract for Construction Services encompasses providing services related to repair of DIW IW-1 at Site 3 (WTP 3).

SCOPE OF SERVICES

The Scope of Services is divided into three individual phases of work, the necessity of each phase shall depend upon the condition of the deep injection well tubing and the results of preliminary testing. The first phase of work is to test the deep injection well (DIW) to determine the extent of the repair needed. If the tubing passes the visual inspection, the Phase 1 Testing including the background gamma ray and temperature logs and annular pressure test shall commence. If the testing is successful, Phase 2 Pressure Grout Repair work shall commence.

If during Phase 1, the tubing is deemed to be in corroded condition, Phase 3 Tube and Packer Removal work shall commence. If during Phase 2, the Pressure Grout Repair work is not successful then Phase 3 Tube and Packer Removal shall commence.

Contractor shall provide equipment and materials to test the DIW, perform a pressure grout repair of a fluid leak in the existing packer (located approximately 2694' bls) within the DIW IW-1 in accordance with Palm Beach County Water Utilities Department Minimum Engineering and Construction Standards, as indicated in the contract documents. Attachment "B" indicates the proposed description of work including mobilization, salt killing the well, cleaning the casing, video surveying, gamma ray logging, temperature logging, pressure testing, installing straddle packers and cement retainer, pressure grouting, perform mechanical integrity testing, providing corrosion inhibitor (Baracor 100) and all other required services.

COMPENSATION

Compensation shall be based on the Contract for Construction Services dated June 3, 2008 (Resolution/Document 2008-_____) as approved by the Board of County Commissioners.

SBE- M/WBE PARTICIPATION

As described in Section 7.5 of the Contract, SBE participation is included in Attachment B and Attachment C under this Authorization. The attached Schedule 1 defines the SBE – M/WBE applied to this Contract.

ATTACHMENT – A	Public Construction Bond
ATTACHMENT – B	Work Authorization Schedule of Bid Items
ATTACHMENT – C	SBE Schedule 1
ATTACHMENT – D	SBE Schedule 2
ATTACHMENT – E	Location Map

ATTACHMENT A

WA#1

PUBLIC CONSTRUCTION BOND

BOND NUMBER: 929452611

BOND AMOUNT: \$630,000.00

CONTRACT AMOUNT: \$630,000.00

CONTRACTOR'S NAME: Southeast Drilling Services, Inc.

CONTRACTOR'S ADDRESS: P.O. Box 2764
Lutz, FL 33548

CONTRACTOR'S PHONE: (813) 968-7277

SURETY COMPANY: Western Surety Company

SURETY'S ADDRESS: P.O. Box 5077
Sioux Falls, SD 57117

OWNER'S NAME: PALM BEACH COUNTY

OWNER'S ADDRESS: 8100 Forest Hill Boulevard (P. O. Box 16097)
West Palm Beach, FL 33413 (33416-6097)

OWNER'S PHONE: (561) 493-6000

DESCRIPTION OF WORK: The Scope of Services is divided into three individual phases of work, the necessity of each phase shall depend upon the condition of the deep injection well tubing and the results of preliminary testing. The first phase of work is to test the deep injection well (DIW) to determine the extent of the repair needed. If the tubing passes the visual inspection, the Phase 1 Testing including the background gamma ray and temperature logs and annular pressure test shall commence. If the testing is successful, Phase 2 Pressure Grout Repair work shall commence.

If during Phase 1, the tubing is deemed to be in corroded condition, Phase 3 Tube and Packer Removal work shall commence. If during Phase 2, the Pressure Grout Repair work is not successful then Phase 3 Tube and Packer Removal shall commence.

PROJECT LOCATION: Site 3 (SROC)

LEGAL DESCRIPTION: _____

PUBLIC CONSTRUCTION BOND

This Bond is issued in favor of the County conditioned on the full and faithful performance of the Contract.

KNOW ALL MEN BY THESE PRESENTS: that Contractor and Surety, are held and firmly bound unto
Palm Beach County Board of County Commissioners
301 N. Olive Avenue
West Palm Beach, Florida 33401

as Obligee, herein called County, for the use and benefit of claimant as herein below defined, in the amount of
Dollars (\$630,000.00)

for the payment whereof Principal and Surety bind themselves, their heirs, personal representatives, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has by written agreement dated _____, 200_, entered into a contract with the County for

Project Name: Floridan and Deep Injection Well Continuing Construction Contract
Project No.: WUD 08-020
Project Description: Perform testing, pressure grout repair and/or removal of tube and packer for deep injection well located at Site 3 (SROC).
Project Location: Site 3 (SROC)

in accordance with Design Criteria Drawings and Specifications prepared by

Name of Design Firm: PBC Water Utilities Department
Location of Firm: West Palm Beach, FL 33413
Phone: 561/493-6110
Fax: 561/493-6113

which contract is by reference made a part hereof in its entirety, and is hereinafter referred to as the Contract.

THE CONDITION OF THIS BOND is that if Principal:

1. Performs the contract dated _____, 200_, between Principal and County for the construction of the Floridan and Deep Injection Well Continuing Construction Contract, the contract being made a part of this bond by reference, at the times and in the manner prescribed in the SROC Deep Injection Well Repair contract; and
2. Promptly makes payments to all claimants, as defined in Section 255.05, Florida Statutes, supplying Principal with labor, materials, or supplies, used directly or indirectly by Principal in the prosecution of the work provided for in the contract; and
3. Pays County all losses, damages (including liquidated damages), expenses, costs, and attorneys' fees, including appellate proceedings, that County sustains because of a default by Principal under the contract; and

4. Performs the guarantee of all work and materials furnished under the contract for the time specified in the contract, then this bond is void; otherwise it remains in full force.

5. Any changes in or under the contract documents and compliance or noncompliance with any formalities connected with the contract or the changes does not affect Surety's obligation under this bond and Surety waives notice of such changes.

6. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of construction liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against the bond.

7. Principal and Surety expressly acknowledge that any and all provisions relating to consequential, delay and liquidated damages contained in the contract are expressly covered by and made a part of this Performance, Labor and Material Payment Bond. Principal and Surety acknowledge that any such provisions lie within their obligations and within the policy coverage's and limitations of this instrument.

8. Section 255.05, Florida Statutes, as amended, together with all notice and time provisions contained therein, is incorporated herein, by reference, in its entirety. Any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes. This instrument regardless of its form, shall be construed and deemed a statutory bond issued in accordance with Section 255.05, Florida Statutes.

9. Any action brought under this instrument shall be brought in the state court of competent jurisdiction in Palm Beach County, Florida and not elsewhere.

Danielle J. Baer
Witness

Southeast Drilling Services, Inc.
Principal (Seal)

Clayton Stacey
Witness

Sonya P. Ziefen, Secretary
Title
Western Surety Company
Surety (Seal)

[Signature]
Title Attorney-in-Fact

ATTACHMENT B

SCHEDULE OF BID PRICES

Project No.: WUD 08-020

Site 3 (SROC)

DIW Testing, Repair and Tube and Packer Removal

Deep Injection Well					
Item No.	Description	Quantity	Unit	Unit Price	Amount
6	SROC (WTP 3) deep injection well, brush tubing, perform annular pressure test, gamma ray log and temperature log	1	Lump	\$65,000.00	\$65,000.00
7	SROC (WTP 3) deep injection well, perform pressure grout repair and full mechanical integrity test on deep injection well with tube and packer with fluid filled annulus	1	Lump	\$185,000.00	\$185,000.00
8	SROC (WTP 3) deep injection well, remove existing 16" steel tubing, brush casing, video casing, caliper test and reinstall wellhead	1	Lump	\$380,000.00	\$380,000.00

SECTION 02590¹

Site 3 (WTP 3) Deep Injection Well Repair

PART 1 – GENERAL (BID ITEMS 6 & 7)

1.01 WORK INCLUDED

- A. This section covers the work, materials, and equipment necessary to repair a fluid leak in the existing packer (located approximately 2694' bls) within the deep injection well (DIW) IW-1. The DIW IW-1 is located at Site 3, also known as WTP 3 or SROC.
- B. All cost associated with the Site 3 DIW repair shall be included in the line item on the Bid Form.

1.02 RELATED REQUIREMENTS

- A. Section 01010 – Summary of Work
- B. Section 01505 – Mobilization and Cleanup
- C. Section 01700 – Project Closeout
- D. Section 02019 – Video Survey
- E. Section 02573 – Radioactive Tracer Survey
- F. Section 02578 – Annular Pressure Test
- G. Section 02679 – Geophysical Logging
- H. Appendix A – DIW Location Maps and Diagrams

PART 2 - PRODUCTS

2.01 GENERAL

- A. CONTRACTOR shall coordinate the removal of the Site 3 deep injection well, IW-1 from service with WTP 3 Superintendent, Dennis Ford, 561-818-7596 and the Southern Region Water Reclamation Facility (SRWRF) superintendent, David Dalton, 561-381-5305. The membrane concentrate from WTP 3 shall be diverted to SRWRF.
- B. CONTRACTOR shall provide equipment and materials to repair fluid leaking past the packer in the existing 16" steel tubing within the deep injection well.
- C. The CONTRACTOR shall provide sufficient corrosion inhibitor solution (Baracor 100) to fill the annulus space and the existing annulus tank.

PART 3 - EXECUTION

3.01 GENERAL

The repair procedure is as follows:

- A. Remove the Site 3 deep injection well, IW-1 from service
- B. Mobilize equipment

- C. Salt kill the deep injection well
- D. Remove 16" valve and piping
- E. CONTRACTOR to brush 16" diameter tubing, then color videotape entire tubing with a rotating camera. Flush water from the annular space to confirm location of leakage while performing the video. Establish dimension above and below existing packer assembly using video inside tubing (or try to obtain video in annulus)
- F. Review results with OWNER.

If the OWNER deems the tubing to be in reasonable condition, the testing will continue as follows:
See attached drawing.

- G. Prior to starting the repair, a background gamma ray log and temperature log will be run.
- H. Install a straddle packer at the bottom of the 20" casing, below the existing packer and tubing string.
- I. Install another straddle packer within the 16" tubing, above the existing packer (straddle the existing inflatable packer).
- J. Perform an annular pressure test at 150 psi
- K. Remove the straddle packer within the 16" tubing.
- L. Review results with the owner

If the OWNER deems the tubing to be in reasonable condition, the packer repair will proceed as follows:

- A. Install a cement retainer at the bottom of the casing.
- B. Emplace Baracor 100 from the bottom of the packer to the top of the casing flowing to land surface.
- C. Install a grout tube to below the cement retainer.
- D. Pressure grout from the bottom of the casing to approximately 10' above the polished bore receptacle to seal the leaking packer assembly.
- E. Run a temperature log and gamma ray log eight (8) hours after cement emplacement to locate cement top.
- F. Drill out cement plug.
- G. Perform full mechanical integrity test including video log, radioactive tracer test and annular pressure test at 150 psi.
- H. Install new 16" valve gasket.
- I. Fill annulus tank with Baracor 100, reconnect annular piping to the tank and return the injection well to service.

ATTACHMENT C

SCHEDULE 1

LIST OF PROPOSED SBE-M/WBE SUBCONTRACTORS

PROJECT NAME: Floridan and Deep Injection Well Continuing Construction Contract PROJECT NO.: WUD 08-051
 NAME OF PRIME BIDDER: Southeast Drilling Services, Inc. ADDRESS 119 Lucina Drive
 CONTACT PERSON: W.B. Ziegler PHONE NO: 561/493-9832 FAX NO: 561/493-5140
 BID OPENING DATE: 4/29/08 DEPARTMENT: _____

PLEASE IDENTIFY ALL APPLICABLE CATEGORIES OF SUBCONTRACTORS

Name, Address and Phone Number Specify)	(Check one or both Categories)		Subcontract Amount				
	Minority Business	Small Business	Black	Hispanic	Women	Caucasian	Other(Please
1. Southeast Drilling	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ 365,400
2.	<input type="checkbox"/>	<input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
3.	<input type="checkbox"/>	<input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
4.	<input type="checkbox"/>	<input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
5.	<input type="checkbox"/>	<input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
(Please use additional sheets if necessary)		Total	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____

Total Bid Price \$ 630,000

Total Value of SBE Participation \$ 365,400

- NOTE: 1. The amounts listed on this form must be supported by the Subcontractors prices included on Schedule 2 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.

ATTACHMENT D

SCHEDULE # 2
LETTER OF INTENT TO PERFORM AS AN SBE OR M/WBE SUBCONTRACTOR

PROJECT NO. WUD 08-051 PROJECT NAME: Floridan and Deep Injection Well Continuing Construction Contract

TO: Southeast Drilling Services, Inc
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a(n) - (check one or more, as applicable):
Small Business Enterprise Minority Business Enterprise

Black Hispanic Women Caucasian Other (Please Specify)

Date of Palm Beach County Certification: _____

The undersigned is prepared to perform the following described work in connection with the above project (Specify in detail, particular work items or parts thereof to be performed):

Line Item No.	Item Description	Qty/Units	Unit Price	Total Price
<u>1</u>	<u>Well Drilling Services</u>	<u>1</u>	<u>\$365,400</u>	<u>\$365,400</u>

at the following price \$ _____
(Subcontractor's quote)

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: \$ _____

The undersigned subcontractor understands that the provision of this form to prime bidder does not prevent subcontractor from providing quotations to other bidders

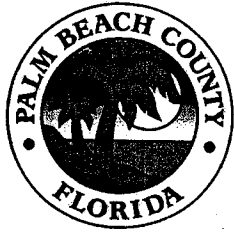
Southeast Drilling Services, Inc.
(Print name of SBE-M/WBE Subcontractor)

By: 
(Signature)

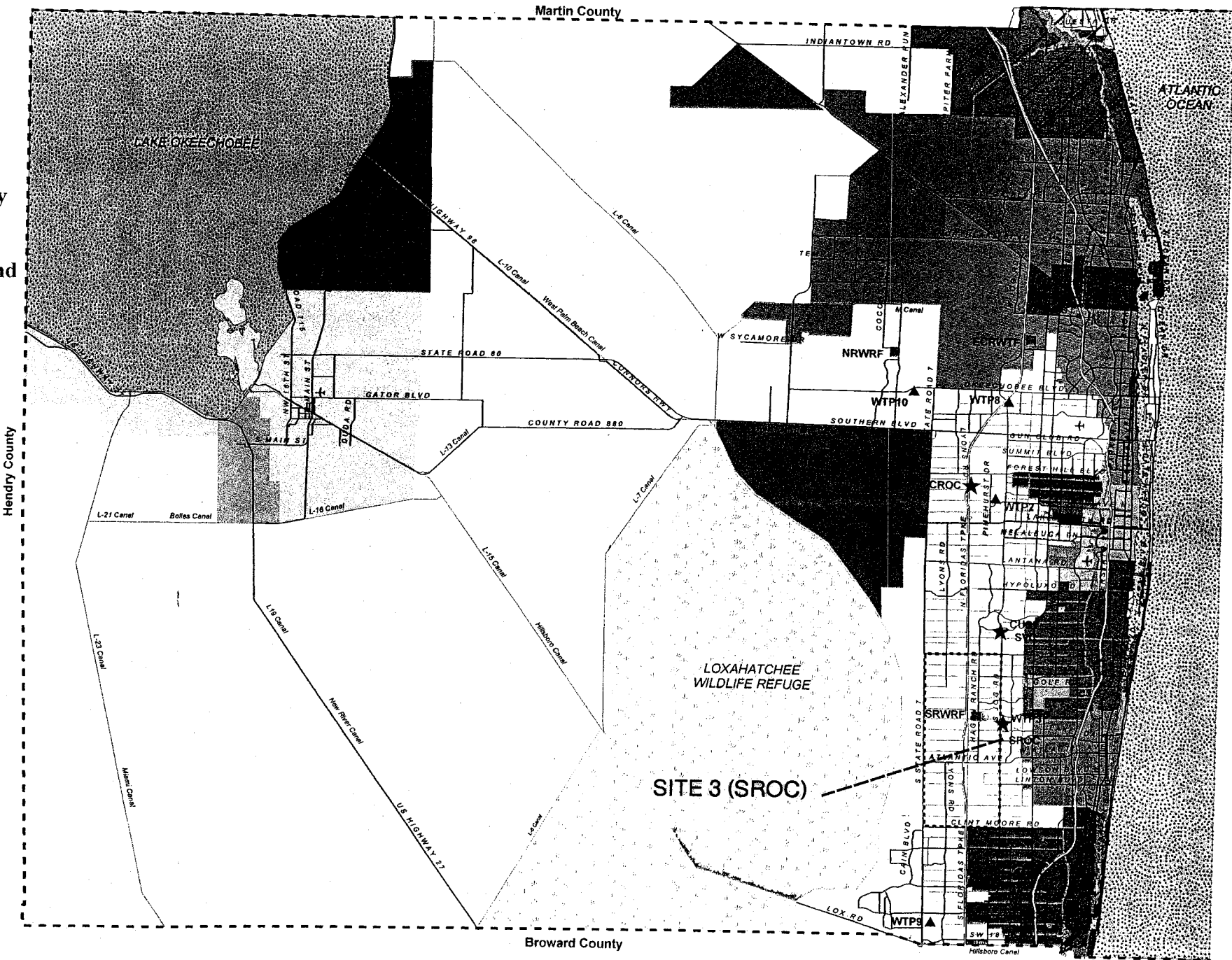
W.B. Ziegler
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

Date: 5/15/05

ATTACHMENT E



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



- Legend**
- P.B.C.W.U.D. SA
 - Mandatory Reclaimed SA
 - - - - - Palm Beach County Limits
 - ★ Administration
 - Water Reclamation Facility
 - ▲ Water Treatment Facility
 - ☉ Wetlands



EXHIBIT - B

FLORIDAN AND DEEP INJECTION WELL
CONTINUING CONSTRUCTION CONTRACT
WUD 08-051

SUMMARY AND STATUS OF
REQUESTS FOR AUTHORIZATIONS

Auth. No.	Description	Status	Project Total Amount	Date Approved	WUD No. Assigned	Contractor No. Assigned
1	Site 3 (WTP 3) - Deep Injection Well IW-1, Test & Repair	Pending	\$ 630,000.00		08-020	
2	Southern Region Pumping Facility - DIW MIT & MW Repair	Pending	\$ 297,000.00		08-062	
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TOTAL			\$ 927,000.00			

EXHIBIT C

AUTHORIZATION STATUS REPORT Floridan and Deep Injection Well Continuing Construction Contract WUD 08-051

SUMMARY OF SMALL BUSINESS TRACKING SYSTEM

Item	Total Amount
Current Proposal	
Value of Authorization No. 1	\$630,000.00
Value of SBE Letters of Intent	\$365,400.00
Actual Percentage	58.00%
Signed Authorizations	
Total Value of Authorizations	\$0.00
Total Value of SBE Signed Subcontracts	\$0.00
Actual Percentage	0.00%
Signed Authorizations Plus Current Proposal	
Total Value of Authorizations	\$630,000.00
Total Value of Subcontracts and Letters of Intent	\$365,400.00
Actual Percentage	58.00%
GOAL	15.00%

**WORK AUTHORIZATION NO. 2
WATER UTILITIES DEPARTMENT
DEEP INJECTION WELL AND FLORIDAN WELL
CONTINUING CONSTRUCTION CONTRACT**

Project No. WUD 08-062 District: 5

Budget Line Item No. 4001-720-2582-4615

Project Title: Southern Region Pumping Facility – DIW MIT & Dual-Zone MW Repair

THIS AUTHORIZATION # 2 to the Contract for Construction Services dated June 3, 2008 (Resolution/Document 2008-____), by and between Palm Beach County and the Contractor identified herein, is for the Construction Services described in Item 3 of this Authorization. The Contract provides for 15.00% SBE participation overall. This Authorization includes 58.00% overall participation. The cumulative proposed SBE participation, including this authorization is 58.00% overall.

1. CONTRACTOR:
2. ADDRESS:
3. Description of Services to be provided by the Contractor:

See EXHIBIT "A".

4. Services completed by the Contractor to date:

See EXHIBIT "B" and "C".

5. Contractor shall begin work promptly with the following work commencing from the notice to proceed date:

DIW MIT - Substantial Completion 45 Calendar Days,
DIW MIT - Final Completion 75 Calendar Days,
MW Repair - Substantial Completion 120 Calendar Days,
MW Repair - Final Completion 150 Calendar Days,

Liquidated damages will apply in accordance with Paragraph 1.6.1 of the Contract Bid Form

6. The compensation to be paid to the Contractor for providing the requested services in accordance with the Contract Bid Prices is \$46,000.00 for the DIW MIT and \$251,000.00 for the MW Repair for a total of \$297,000.00.
7. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated June 3, 2008 remain in full force and effect.

**WORK AUTHORIZATION NO. 2
WATER UTILITIES DEPARTMENT
DEEP INJECTION WELL AND FLORIDAN WELL
CONTINUING CONSTRUCTION CONTRACT**

Project No. WUD 08-062

Project Title: Southern Region Pumping Facility – DIW MIT & Dual-Zone MW Repair

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

ATTEST:

Sharon R. Bock
Clerk and Comptroller

BOARD OF COUNTY COMMISSIONERS
PALM BEACH COUNTY

Addie L. Greene, Chairperson

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY

Date

PAT 5/22/08

(County Attorney)

CONTRACTOR

ATTEST:

Daniyel J. Baer

Witness

W. D. FIECZER

(Signature)

Daniyel J. Baer / Office Manager

(Name and Title)

W. D. FIECZER / President

(Name and Title)

(CORPORATE SEAL)

Date

EXHIBIT 'A'

WORK AUTHORIZATION NO. 2 PALM BEACH COUNTY WATER UTILITIES DEPARTMENT ENGINEERING/PROFESSIONAL SERVICES

SCOPE OF WORK FOR

Southern Region Pumping Facility – MIT & Dual-Zone MW Repair

INTRODUCTION

Palm Beach County (County) entered into a Contract for Construction Services dated June 3, 2008 (Resolution/Document 2008 - _____), by and between Palm Beach County and _____, for the Construction Services of this Authorization.

This Contract for Construction Services encompasses providing services related to partial mechanical integrity testing (pressure test) of DIW IW-1 and the repair of the dual-zone monitor well at Southern Region Pumping Facility.

SCOPE OF SERVICES

The Contractor shall provide equipment and materials to perform mechanical integrity testing (pressure test) of DIW IW-1 the proposed description of work including mobilization, salt killing the DIW, cleaning the casing, video surveying, pressure testing, well development and all other required services.

Attachment "B" indicates the proposed description of the deep injection well (DIW) mechanical integrity testing (MIT) work including mobilization, salt killing the DIW, cleaning the casing, video surveying, pressure testing, well development and all other required services.

Attachment "B" indicates the proposed description of work for the repair of the dual-zone monitor well by installing a 2-3/8" fiberglass reinforced pipe (FRP) within the existing 6" steel casing of the monitor well in accordance with Palm Beach County Water Utilities Department Minimum Engineering and Construction Standards, as indicated in the contract documents.

COMPENSATION

Compensation shall be based on the Contract for Construction Services dated June 3, 2008 (Resolution/Document 2008-_____) as approved by the Board of County Commissioners.

SBE- M/WBE PARTICIPATION

As described in Section 7.5 of the Contract, SBE participation is included in Attachment B and Attachment C under this Authorization. The attached Schedule 1 defines the SBE – M/WBE applied to this Contract.

ATTACHMENT – A	Public Construction Bond
ATTACHMENT – B	Work Authorization Schedule of Bid Items
ATTACHMENT – C	SBE Schedule 1
ATTACHMENT – D	SBE Schedule 2
ATTACHMENT – E	Location Map

ATTACHMENT A

WA#2

PUBLIC CONSTRUCTION BOND

BOND NUMBER: 929452610

BOND AMOUNT: \$297,000.00

CONTRACT AMOUNT: \$297,000.00

CONTRACTOR'S NAME: Southeast Drilling Services, Inc.

CONTRACTOR'S ADDRESS: P.O. Box 2764
Lutz, FL 33548

CONTRACTOR'S PHONE: (813) 968-7277

SURETY COMPANY: Western Surety Company

SURETY'S ADDRESS: P.O. Box 5077
Sioux Falls, SD 57117

OWNER'S NAME: PALM BEACH COUNTY

OWNER'S ADDRESS: 8100 Forest Hill Boulevard (P. O. Box 16097)
West Palm Beach, FL 33413 (33416-6097)

OWNER'S PHONE: (561) 493-6000

DESCRIPTION OF WORK: Perform partial mechanical integrity testing (pressure test) for deep injection well IW-1 and perform the repair of the dual-zone monitor well MW-1 located at Southern Region Pumping Facility (SRPF).

PROJECT LOCATION: Southern Region Pumping Facility

LEGAL DESCRIPTION: _____

PUBLIC CONSTRUCTION BOND

This Bond is issued in favor of the County conditioned on the full and faithful performance of the Contract.

KNOW ALL MEN BY THESE PRESENTS: that Contractor and Surety, are held and firmly bound unto
Palm Beach County Board of County Commissioners
301 N. Olive Avenue
West Palm Beach, Florida 33401

as Obligee, herein called County, for the use and benefit of claimant as herein below defined, in the amount of

Dollars (\$297,000.00)

for the payment whereof Principal and Surety bind themselves, their heirs, personal representatives, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has by written agreement dated _____, 200_, entered into a contract with the County for

Project Name: Floridan and Deep Injection Well Continuing Construction Contract
Project No.: WUD 08-062
Project Description: Perform partial mechanical integrity testing (pressure test) for deep injection well and perform the repair of the dual-zone monitor well located at SRPF.
Project Location: Southern Region Pumping Facility (SRPF)

in accordance with Design Criteria Drawings and Specifications prepared by

Name of Design Firm: PBC Water Utilities Department
Location of Firm: West Palm Beach, FL 33413
Phone: 561/493-6110
Fax: 561/493-6113

which contract is by reference made a part hereof in its entirety, and is hereinafter referred to as the Contract.

THE CONDITION OF THIS BOND is that if Principal:

1. Performs the contract dated _____, 200_, between Principal and County for the construction of Floridan and Deep Injection Well Continuing Construction Contract, the contract being made a part of this bond by reference, at the times and in the manner prescribed in the Southern Region Pumping Facility (SRPF) MIT and Monitor Well Repair contract; and
2. Promptly makes payments to all claimants, as defined in Section 255.05, Florida Statutes, supplying Principal with labor, materials, or supplies, used directly or indirectly by Principal in the prosecution of the work provided for in the contract; and
3. Pays County all losses, damages (including liquidated damages), expenses, costs, and attorneys' fees, including appellate proceedings, that County sustains because of a default by Principal under the contract; and

4. Performs the guarantee of all work and materials furnished under the contract for the time specified in the contract, then this bond is void; otherwise it remains in full force.
5. Any changes in or under the contract documents and compliance or noncompliance with any formalities connected with the contract or the changes does not affect Surety's obligation under this bond and Surety waives notice of such changes.
6. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of construction liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against the bond.
7. Principal and Surety expressly acknowledge that any and all provisions relating to consequential, delay and liquidated damages contained in the contract are expressly covered by and made a part of this Performance, Labor and Material Payment Bond. Principal and Surety acknowledge that any such provisions lie within their obligations and within the policy coverage's and limitations of this instrument.
8. Section 255.05, Florida Statutes, as amended, together with all notice and time provisions contained therein, is incorporated herein, by reference, in its entirety. Any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes. This instrument regardless of its form, shall be construed and deemed a statutory bond issued in accordance with Section 255.05, Florida Statutes.
9. Any action brought under this instrument shall be brought in the state court of competent jurisdiction in Palm Beach County, Florida and not elsewhere.

Daniell J. Baer
 Witness

Southeast Drilling Services, Inc.
 Principal (Seal)

Larry Kay Stacey
 Witness

Sonya P. Ziegler, Secretary
 Title
 Western Surety Company
 Surety (Seal)

[Signature]
 Title Attorney-in-Fact

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Michael Wayne Rogers, William Cyrus Owen III, Sharon Elaine Taylor, Individually

of Temple Terrace, FL, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Senior Vice President and its corporate seal to be hereto affixed on this 11th day of October, 2006.



WESTERN SURETY COMPANY

Paul T. Bruflat

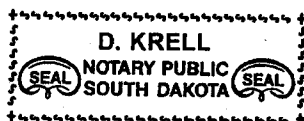
Paul T. Bruflat, Senior Vice President

State of South Dakota }
County of Minnehaha } ss

On this 11th day of October, 2006, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Senior Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

November 30, 2012



D. Krell

D. Krell, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 22 day of May, 2008.



WESTERN SURETY COMPANY

L. Nelson

L. Nelson, Assistant Secretary

ATTACHMENT B

SCHEDULE OF BID PRICES
Project No.: WUD 08-062
Southern Region Pumping Facility
DIW Mechanical Integrity Testing and MW Repair

Deep Injection Well					
Item No.	Description	Quantity	Unit	Unit Price	Amount
3	Partial mechanical integrity test on deep injection well with cemented tubing – pressure test	1	Each	\$46,000.00	\$46,000.00
12	Replace SRPF deep injection well monitor well deep monitoring zone tube	1	Lump	\$251,000.00	\$251,000.00

SECTION 01011¹

MIT GENERAL REQUIREMENTS

PART 1 - GENERAL

1.01 SCOPE OF WORK

- A. The Specifications and MIT Testing Plans included in these Contract Documents establish the minimum performance and quality requirements for material and equipment and the minimum standards for mechanical integrity testing of deep injection wells. **All MIT work must comply with the MIT Testing Plan for each site.** Mechanical Integrity Testing shall be performed at the following deep injection well sites:
- a. Deep injection well IW-1 located at the Palm Beach County Water Utilities (PBCWUD) Southern Region Pumping Facility (SRPF), 19110 S. State Road 7, Boca Raton. Pressure test is due 8/14/08.
 - b. Deep injection well IW-1 located at the PBCWUD Water Treatment Plant No. 3 (Site 3), 13026 Jog Road, Delray Beach, FL. Pressure test is due 4/12/09.
 - c. Deep injection wells IW-1 and IW-2 located at the PBCWUD Southern Region Water Reclamation Facility (SRWRF), 12751 Hagen Ranch Road, Boynton Beach, FL 33437. IW-1 pressure test is due 4/12/09 and IW-2 pressure test is due 4/06/09.
 - d. Deep injection well IW-1 located at the PBCWUD Lake Region Water Treatment Plant (LRWTP), 39700 Hooker Highway, Belle Glade, FL. Pressure test is due 5/11/11.
- B. **Location maps, site plans, and diagrams of the deep injection wells are provided in Appendix A. All MIT work must comply with the MIT Testing Plan for each site. A copy of the MIT Testing Plan for each site is provided in Appendix B.**

1.02 RELATED REQUIREMENTS

- A. Section 01010 – Summary of Work
- B. Section 01505 – Mobilization and Cleanup
- C. Section 01700 – Project Closeout
- D. Section 02019 – Video Survey
- E. Section 02573 – Radioactive Tracer Survey
- F. Section 02577 – Pressure Test
- G. Section 02578 – Annulus Pressure Test
- H. Section 02579 – Geophysical Logging
- I. Appendix A – DIW Location Maps and Diagrams
- J. Appendix B – MIT Testing Plans

PART 2 – REASONABLY IMPLIED PARTS OF THE WORK SHALL BE DONE ALTHOUGH ABSENT FROM SPECIFICATIONS

2.01 GENERAL

- A. Specific tasks not completely described in these Specifications, that are necessary or normally required as a part of the work described, or that are necessary or required to make each installation satisfactorily or legally operable, shall be performed by the CONTRACTOR as incidental work without extra cost to the OWNER, as if fully described in these Specifications. The expense of such work shall be included in the applicable unit or lump sum prices for the work described.
- B. The CONTRACTOR shall, at all times during testing, maintain the ability to return the well to service within 4 hours of notification of emergency conditions that require the use of the injection well for fluids disposal. If an inflatable packer has been installed in the deep injection well at the time of notification, the CONTRACTOR will have the option of removing the inflatable packer from the well or deflating the packer and allowing the packer to remain in the well during fluids disposal. The expense of such work shall be included in the applicable unit or lump sum prices for the work described. In the case that the CONTRACTOR is requested to interrupt testing to return the well to service, the CONTRACTOR shall be compensated for the time spent placing the well back into service and disassembly of the wellhead to the level of wellhead disassembly at which time the request to place the well back into service was made. The CONTRACTOR shall be compensated for these activities at the hourly Emergency Conditions Wellhead Assembly rate on the Bid Form.

PART 3 – SITE ACCESS

3.01 GENERAL

- A. The OWNER has the responsibility to provide legal access to each well site. The CONTRACTOR has the responsibility to provide physical access to each well site.

PART 4 – MATERIALS AND WORKMANSHIP

4.01 GENERAL

- A. The CONTRACTOR shall, except as specifically stated in the Contract Documents, provide all labor, materials, equipment, tools, and other facilities and services necessary for proper completion of all work under the Contract Documents.
- B. The CONTRACTOR, in addition to furnishing the services of drillers experienced in mechanical integrity testing of deep injection wells, shall also furnish an adequate number of competent helpers.
- C. The CONTRACTOR shall guarantee that all work will be performed in a workmanlike manner by qualified well drillers, and will conform with these Specifications

4.02 EQUIPMENT

- A. The CONTRACTOR shall furnish capable equipment to perform the testing described herein.

4.03 COORDINATION

- A. CONTRACTOR shall cooperate in the coordination of its work with the OWNER's operations and other Contractors and utility companies working the area, and in the interfacing and connection of the separate elements of the overall project work without additional costs to the OWNER. The contact for the Southern Region Pumping Facility (SRPF) is Vincent Munn, 561-381-5354. The contact for Southern Region Water Reclamation Facility (SRWRF) is David Dalton, 561-381-5305. The contact for Water Treatment Plant No. 3 (Site 3) is Dennis Ford, 561-818-7596.

4.04 SCHEDULING

- A. The CONTRACTOR shall plan the work and carry it out with minimum interference to the OWNER and other Contractors. The CONTRACTOR is advised that there are other Contractors working in the vicinity of the injection well at the site. Prior to starting the work, the CONTRACTOR shall confer with the OWNER to develop an approved work schedule that will permit the project to progress as normally as practical. The CONTRACTOR may be required to do certain parts of the construction work outside normal working hours to avoid undesirable conditions.
- B. The CONTRACTOR shall make every effort to schedule testing activities during normal working hours and avoid testing activities on nationally recognized holidays (i.e., Labor Day, Thanksgiving, Christmas, and New Year). Work schedules should reflect these holidays in particular.
- C. The CONTRACTOR shall schedule all work or tests, which will be attended by representatives of the Florida Department of Environmental Protection (FDEP), from 9:00 AM to 4:00 PM Monday through Thursday. The RTS will be performed on Monday through Friday beginning by 9:00 AM.

4.05 PROTECTION OF PROPERTY AND ENVIRONMENT

- A. The CONTRACTOR shall take special precautions to reduce to a minimum the nuisances and damages to property. Any damage to public or private property shall be immediately repaired at the CONTRACTOR's sole expense. Equipment, tools, and material shall be located in places where they will produce a minimum of nuisance.
- B. The CONTRACTOR shall observe the rules and regulations of the State of Florida and agencies of the United States Government prohibiting the pollution of surface waters by the dumping of any refuse, rubbish, or debris therein.
- C. CONTRACTOR shall not cause nor permit an action to occur which would allow an overflow of fluids or saline waters to escape the confines of the concrete pad. The

CONTRACTOR shall remain solely responsible for any property damage, remediation costs, or regulatory fines which might result from such occurrence.

PART 5 – DETAILED CONSTRUCTION SCHEDULE

5.01 MECHANICAL INTEGRITY TESTING

- A. The mechanical integrity testing of the injection well shall generally proceed as follows:
1. Mobilize to site and set up well testing equipment at the location of the injection well in accordance with Section 01505, MOBILIZATION AND CLEANUP.
 2. Coordinate removal of injection well from service with OWNER and plant superintendent.
 3. Disassemble the wellhead as necessary to perform testing as described herein.
 4. Perform video survey log of the **deep injection well and associated shallow and deep monitor wells¹** in accordance with Section 02579, GEOPHYSICAL LOGGING. **Contractor shall remove and reinstall monitor wellheads as necessary during video survey.¹**
 5. Set up for performing the casing pressure test on IW-1 in accordance with Section 02577, PRESSURE TEST.
 6. Perform a casing pressure test at a minimum starting pressure of 150 psi for a period of 60 minutes in accordance with Section 02577, PRESSURE TEST.
 7. After allowing the deep injection well to remain undisturbed for a minimum period of 24-hours, perform high-resolution temperature, background gamma ray, and casing collar locator logs in accordance with Section 02579, GEOPHYSICAL LOGGING.
 8. Perform radioactive tracer survey in accordance with Section 02573, RADIOACTIVE TRACER SURVEY, and Section 02579, GEOPHYSICAL LOGGING.
 9. Reassemble the wellhead to the pre-testing configuration including replacement of all gaskets removed during wellhead disassembly.
 10. Demobilize equipment, clean injection well pad and restore any disturbed areas around the injection well site in accordance with Section 01505, MOBILIZATION AND CLEANUP.

END OF SECTION

Partial MIT – Pressure Test

Mechanical Integrity Testing Plan for the Palm Beach County Southern Region Pumping Facility Deep Injection Well

Palm Beach County Water Utilities Department (PBCWUD) owns and operates the Southern Region Pumping Facility (SRPF) and Water Treatment Plant (WTP) No. 9 sites. Figure 1 shows the location of the SRPF and WTP 9 sites. The Water Treatment Plant (WTP) No. 9 utilizes a deep injection well (DIW) system located at SRPF for disposal of membrane concentrate from the water treatment plant in accordance with Florida Department of Environmental Protection (FDEP) Operating Permit No. 128339-001-UO and Modification Permit No. 128339-003-UC for installation of a cemented FRP tubing. The injection well system consists of one deep injection well (IW-1) and a dual-zone monitor well (MW-1). On January 30, 2006 the deep injection well was modified with a 16-inch diameter FRP tubing (14.47" I.D.) installed to a depth of 2,575 feet below pad level (bpl) and a total depth of 3,060 feet bpl. Figure 2 presents a completion diagram of IW-1. Dual-zone monitor well MW-1 was constructed with an upper monitor zone of 970 to 1,105 feet bpl and a lower monitor zone of 1,699 to 1,800 feet bpl. A completion diagram of MW-1 is presented in Figure 3. Dual zone monitor well MW-1 is located approximately 80 feet east of IW-1. A site plan showing the location of the wells is provided in Figure 4.

As specified in Rule 62-528, Florida Administrative Code (FAC), a Class I injection well must demonstrate mechanical integrity every 5 years and in addition, an interim pressure test is required every two and a half years as the SRPF DIW has a cemented FRP tubing. The most recent pressure test on IW-1, the date upon which the Department bases the next mechanical integrity test (MIT) due date, was performed on February 15, 2006. In accordance with Rule 62-528, FAC, and specific condition 2.g. of permit 128339-003-UC, the next interim pressure test to demonstrate mechanical integrity must be completed on or before August 14, 2008. The next full MIT must be completed on or before February 14, 2011.

Southern Region Pumping Facility DIW IW-1 MIT Plan

Please note the following list of items pertaining to scheduling and performance of the MIT and the MIT final report:

- The FDEP will receive a 72-hour notice prior to performance of the tubing pressure test.
- A meeting will be held with the well testing contractor and the SRPF superintendent to coordinate removal of IW-1 from service. If the WTP No. 9 site is in operation, treated membrane concentrate will be diverted to Southern Region Water Reclamation Facility when IW-1 is out of service during the MIT, which is anticipated to last approximately 1 day. Potable water will be used for the water source for all testing described below.
- If the WTP No. 9 is in service and conditions require the use of IW-1 for membrane concentrate disposal, testing will be interrupted to allow the well to be placed back into service.
- A check valve will be provided for all potable water connections during the MIT to provide backflow prevention.
- A preliminary tubing pressure test will be conducted prior to notifying FDEP of the time of the FDEP witnessed tubing pressure test.
- A copy of the calibration certificate for the pressure gauge used during the pressure test demonstrating the gauge was calibrated within 6 months prior to conducting the pressure test will be provided as an appendix to the Mechanical Integrity Testing report. A copy of the pressure gauge calibration certificate will also be provided to the FDEP representative witnessing the test in the field.
- All tubing pressure test data will be provided as an appendix to the engineering report.
- A description of tests performed and interpretation of the testing results will be provided in the Mechanical Integrity Testing report submitted to the FDEP and Technical Advisory Committee (TAC) for review and approval following completion of testing.

Southern Region Pumping Facility DIW IW-1 MIT Plan

- A Mechanical Integrity Testing report summarizing of the results of the MIT will include the injection well system operating data with interpretation for the two and a half year period prior to performing the MIT. The Mechanical Integrity Testing report will be certified by a Florida registered professional engineer or a professional geologist.

The MIT will include the performance of a Pressure Test of the 16-inch FRP injection tubing within the injection well.

Injection Tubing Pressure Test

Pressure testing will follow the procedure outlined below:

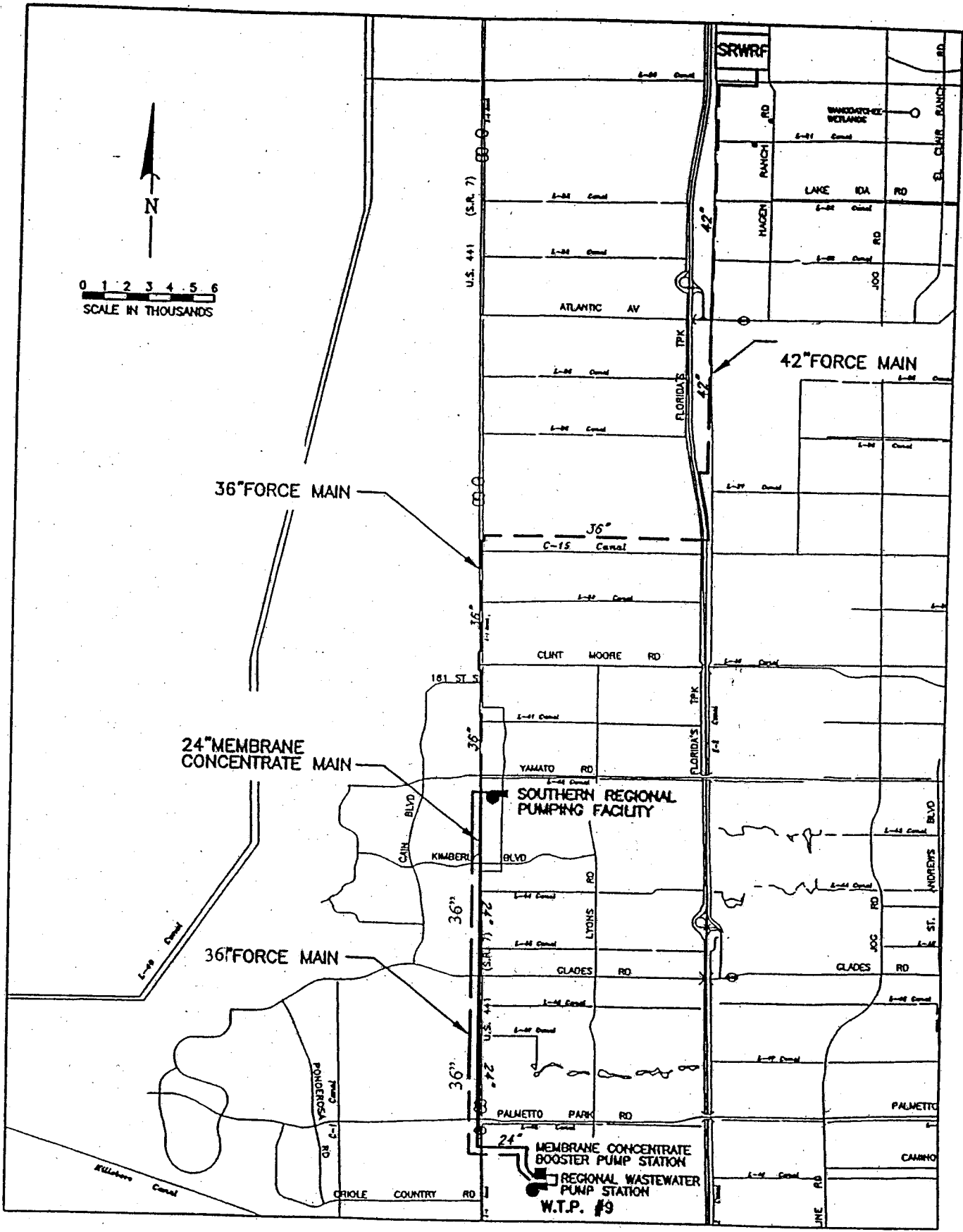
1. Remove the well from service.
2. Kill the well using brine for hydraulic head suppression or add sufficient pipe above the well greater than the artesian head. If the well is killed the hydraulic head of the well will be lowered to below land surface.
3. Remove wellhead.
4. Install an inflatable packer to a depth of between 2,550 and 2,575 feet bpl inside the 16-inch tubing of IW-1.
5. A calibrated pressure gauge with a range of 0.0 to 200.0 pounds per square inch (psi) will be installed on the injection well wellhead.
6. The well and all equipment lines will be completely filled with water before pressurizing the tubing to a minimum pressure of 150 psi. Any air which may have been introduced to the system will be bled off to ensure that the tubing is completely filled with water.
7. The tubing pressure will be monitored for 60 minutes. Tubing pressure will be recorded at 1-minute intervals during the 60-minute monitoring period.

Southern Region Pumping Facility DIW IW-1 MIT Plan

8. Water from the tubing will be released until the tubing pressure is zero psi. While releasing water from tubing, the volume of water will be measured and recorded as part of the pressure test. The water shall then be diverted to the nearest wastewater lift station for disposal.
9. Remove the inflatable packer from the well, re-install the wellhead and return the well to service.

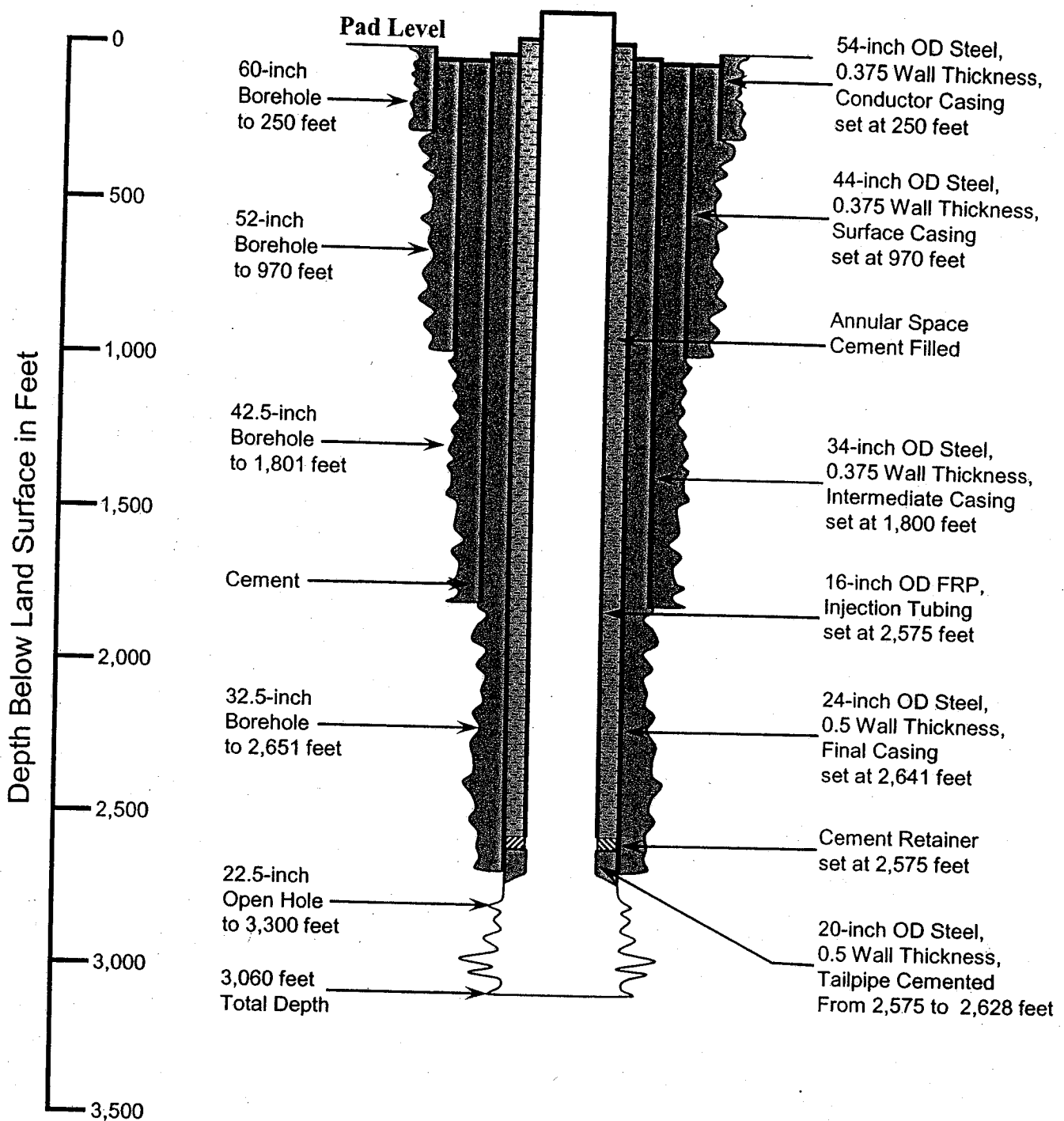
The test will be considered acceptable if a pressure change of plus or minus 5 percent or less occurs during the 60-minute monitoring period of the pressure test.

Figures



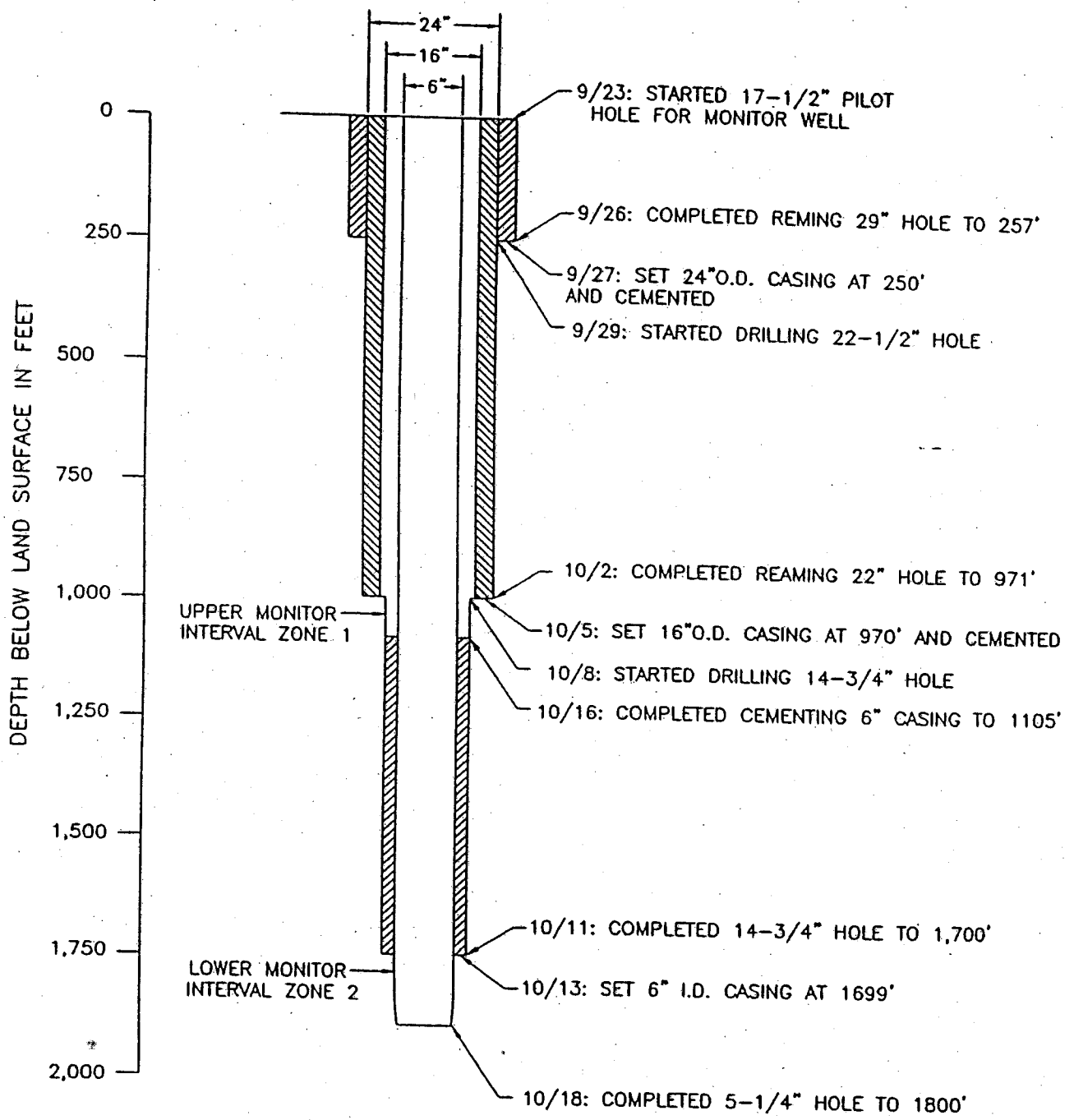
LOCATION MAP
 SOUTHERN REGION PUMPING FACILITY
 AND WTP NO. 9

FIGURE 1



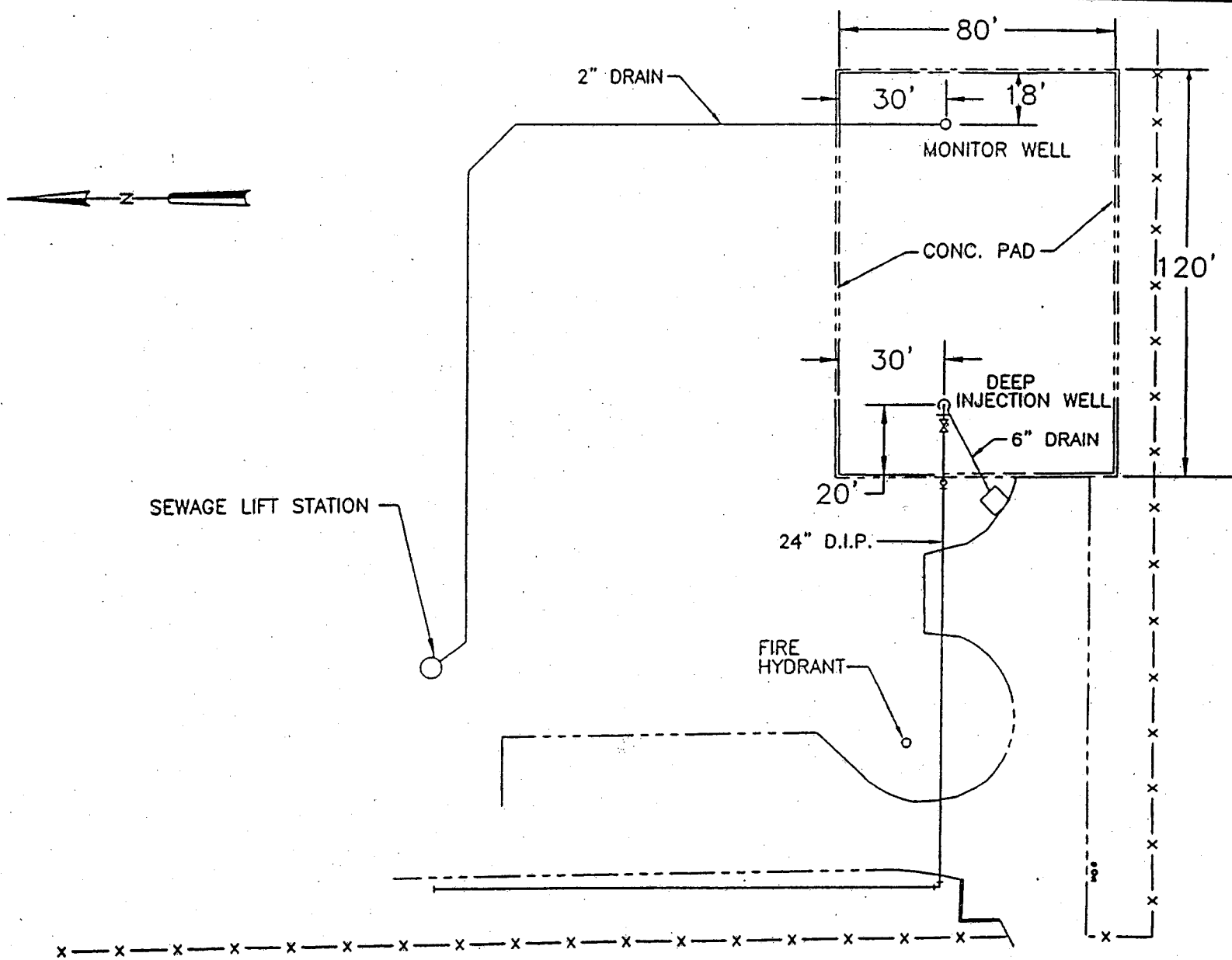
**SOUTHERN REGION PUMPING FACILITY (9N)
INJECTION WELL TUBING REPLACEMENT
CONSTRUCTION DIAGRAM**

Figure 2



**SOUTHERN REGIONAL PUMPING FACILITY
EXISTING DUAL-ZONE MONITOR WELL
COMPLETION DIAGRAM**

FIGURE 3



**SOUTHERN REGIONAL PUMPING FACILITY
SITE PLAN FOR INJECTION WELL DISPOSAL SYSTEM**

FIGURE 4

SECTION 02580^{1,2}

SRPF Dual-Zone Monitor Well Repair

PART 1 – GENERAL (BID ITEM 12)

1.01 WORK INCLUDED

- A. This section covers the work, materials, and equipment necessary for repair a fluid leak (located at 485' bls) in the 6" steel casing of the Southern Region Pumping Facility (SRPF) dual-zone monitor well.
- B. All cost associated with the SRPF monitor well repair shall be included in the line item on the Bid Form.

1.02 RELATED REQUIREMENTS

- A. Section 01010 – Summary of Work
- B. Section 01505 – Mobilization and Cleanup
- C. Section 01700 – Project Closeout
- D. Section 02019 – Video Survey
- E. Section 02577 – Pressure Test
- F. Appendix A – DIW Location Maps and Diagrams

PART 2 - PRODUCTS

2.01 GENERAL

- A. CONTRACTOR will provide equipment and materials to install a 2-3/8" fiberglass reinforced pipe (FRP) within the existing 6" steel casing of the dual-zone monitor well.
- B. The FRP shall be nominal size 2-3/8" Red Box 1500 by Future Pipe Industries, or equal as determined by the Engineer. Nominal I.D. shall be 2.0". Internal pressure rating shall be 1,500 psi. Nominal wall thickness 0.13".

PART 3 - EXECUTION

3.01 GENERAL

- A. Notify Florida Department of Environmental Protection (FDEP) and PBCWUD Construction Coordination 72-hours prior to starting work.
- B. Work with the Supervisor for the Southern Region Pumping Facility (SRPF), Vincent Munn, 561-381-5354., to remove the dual-zone monitor well from service.
- C. Kill the upper and lower monitor zone well using brine for hydraulic head suppression or add sufficient pipe above the well greater than the artesian head. If the well is killed the hydraulic head of the well will be lowered to below land surface.

- D. Remove the wellhead.
- E. Install brush tool to brush existing 6" steel casing and clean to a depth of 1,699' below land surface (bls). **CONTRACTOR to brush the existing 6" diameter steel casing taking care to reduce the amount of debris that falls into the monitor well. Debris from brushing the casing shall be properly disposed by the CONTRACTOR.**¹
- F. Video survey the existing 6" steel casing.
- G. Video survey the existing 16" steel casing.
- H. Report findings and submit video and modifications to repair plan to FDEP.
- I. Obtain FDEP approval before proceeding with repair.
- J. Emplace sand or packer at 1,699' bls.
- K. Install 2-3/8" FRP and 1" grout tube to depth of 1,694' bls.
- L. Grout from 1,694' to 1,105' bls.
- M. Remove grout tube.
- N. Pressure test 2-3/8" FRP.
- O. Remove/drill packer or drill out cement plug and sand between 1,694' and 1,695' bls.
- P. Video to confirm grout placement.
- Q. Air develop formation to remove sand.
- R. Confirm the monitor well is flowing.
- S. ~~Run cement bond log.~~²
- T. Run final video of 2-3/8" FRP tubing.
- U. Re-install the wellhead and return the monitor well to service.

END OF SECTION

ATTACHMENT C

SCHEDULE 1

LIST OF PROPOSED SBE-M/WBE SUBCONTRACTORS

PROJECT NAME: Floridan and Deep Injection Well Continuing Construction Contract PROJECT NO.: WUD 08-051
 NAME OF PRIME BIDDER: Southest Drilling Services, Inc. ADDRESS 119 Lucina Drive
 CONTACT PERSON: W.B. Ziegler PHONE NO: 561/493-9832 FAX NO: 561/493-5140
 BID OPENING DATE: 4/29/08 DEPARTMENT: _____

PLEASE IDENTIFY ALL APPLICABLE CATEGORIES OF SUBCONTRACTORS

Name, Address and Phone Number Specify)	(Check one or both Categories)		Subcontract Amount				
	Minority Business	Small Business	Black	Hispanic	Women	Caucasian	Other(Please
1. Southeast Drilling	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ 172,260
2.	<input type="checkbox"/>	<input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
3.	<input type="checkbox"/>	<input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
4.	<input type="checkbox"/>	<input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
5.	<input type="checkbox"/>	<input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
(Please use additional sheets if necessary)		Total	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____

Total Bid Price \$ 297,000

Total Value of SBE Participation \$ 172,260

- NOTE: 1. The amounts listed on this form must be supported by the Subcontractors prices included on Schedule 2 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.

ATTACHMENT D

SCHEDULE # 2

LETTER OF INTENT TO PERFORM AS AN SBE OR M/WBE SUBCONTRACTOR

PROJECT NO. WUD 08-051 PROJECT NAME: Floridan and Deep Injection Well Continuing Construction Contract

TO: Southeast Drilling Services, Inc
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a(n) - (check one or more, as applicable):
Small Business Enterprise Minority Business Enterprise

Black Hispanic Women Caucasian Other (Please Specify) _____

Date of Palm Beach County Certification: 11/20/07

The undersigned is prepared to perform the following described work in connection with the above project (**Specify in detail, particular work items or parts thereof to be performed**):

Line Item No.	Item Description	Qty/Units	Unit Price	Total Price
<u>1</u>	<u>Well Drilling Services</u>	<u>1</u>	<u>\$172,260</u>	<u>\$172,260</u>


at the following price \$ NA
(Subcontractor's quote)

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: \$ _____.

The undersigned subcontractor understands that the provision of this form to prime bidder does not prevent subcontractor from providing quotations to other bidders

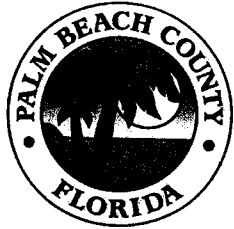
Southeast Drilling Services, Inc.
(Print name of SBE-M/WBE Subcontractor)

By: 
(Signature)

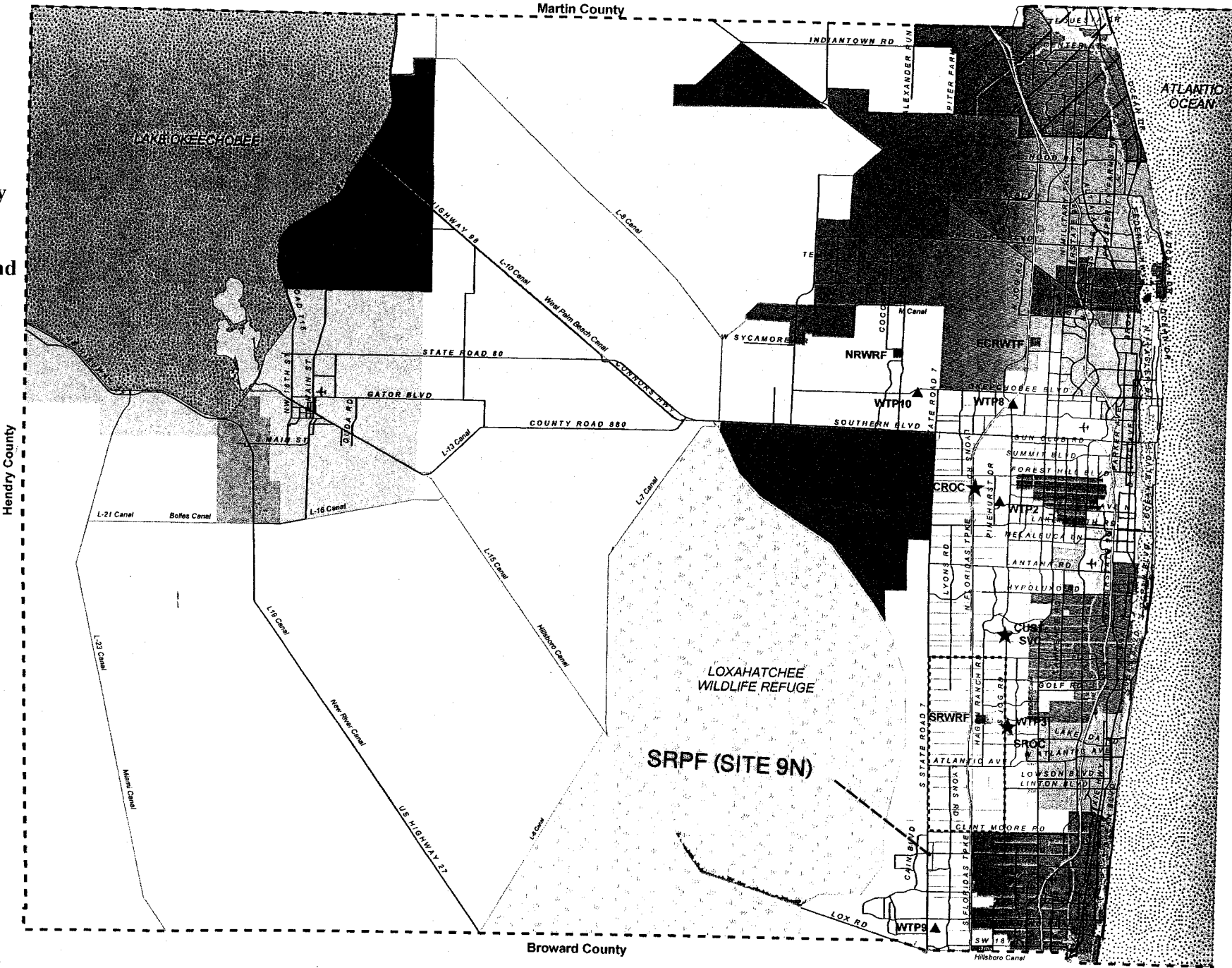
W.B. Ziegler
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

Date: 5/15/05

ATTACHMENT E



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



- Legend**
- P.B.C.W.U.D. SA
 - - - - Mandatory Reclaimed SA
 - - - - Palm Beach County Limits
 - ★ Administration
 - Water Reclamation Facility
 - ▲ Water Treatment Facility
 - ☉ Wetlands



NOT TO SCALE

EXHIBIT - B

**FLORIDAN AND DEEP INJECTION WELL
CONTINUING CONSTRUCTION CONTRACT
WUD 08-051**

**SUMMARY AND STATUS OF
REQUESTS FOR AUTHORIZATIONS**

Auth. No.	Description	Status	Project Total Amount	Date Approved	WUD No. Assigned	Contractor No. Assigned
1	Site 3 (WTP 3) - Deep Injection Well IW-1, Test & Repair	Pending	\$ 630,000.00		08-020	
2	Southern Region Pumping Facility - DIW MIT & MW Repair	Pending	\$ 297,000.00		08-062	
3						
4						
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TOTAL			\$ 927,000.00			

EXHIBIT C

AUTHORIZATION STATUS REPORT Floridan and Deep Injection Well Continuing Construction Contract WUD 08-051

SUMMARY OF SMALL BUSINESS TRACKING SYSTEM

Item	Total Amount
Current Proposal	
Value of Authorization No. 2	\$297,000.00
Value of SBE Letters of Intent	\$172,260.00
Actual Percentage	58.00%
Signed Authorizations	
Total Value of Authorizations	\$0.00
Total Value of SBE Signed Subcontracts	\$0.00
Actual Percentage	0.00%
Signed Authorizations Plus Current Proposal	
Total Value of Authorizations	\$297,000.00
Total Value of Subcontracts and Letters of Intent	\$172,260.00
Actual Percentage	58.00%
GOAL	15.00%



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

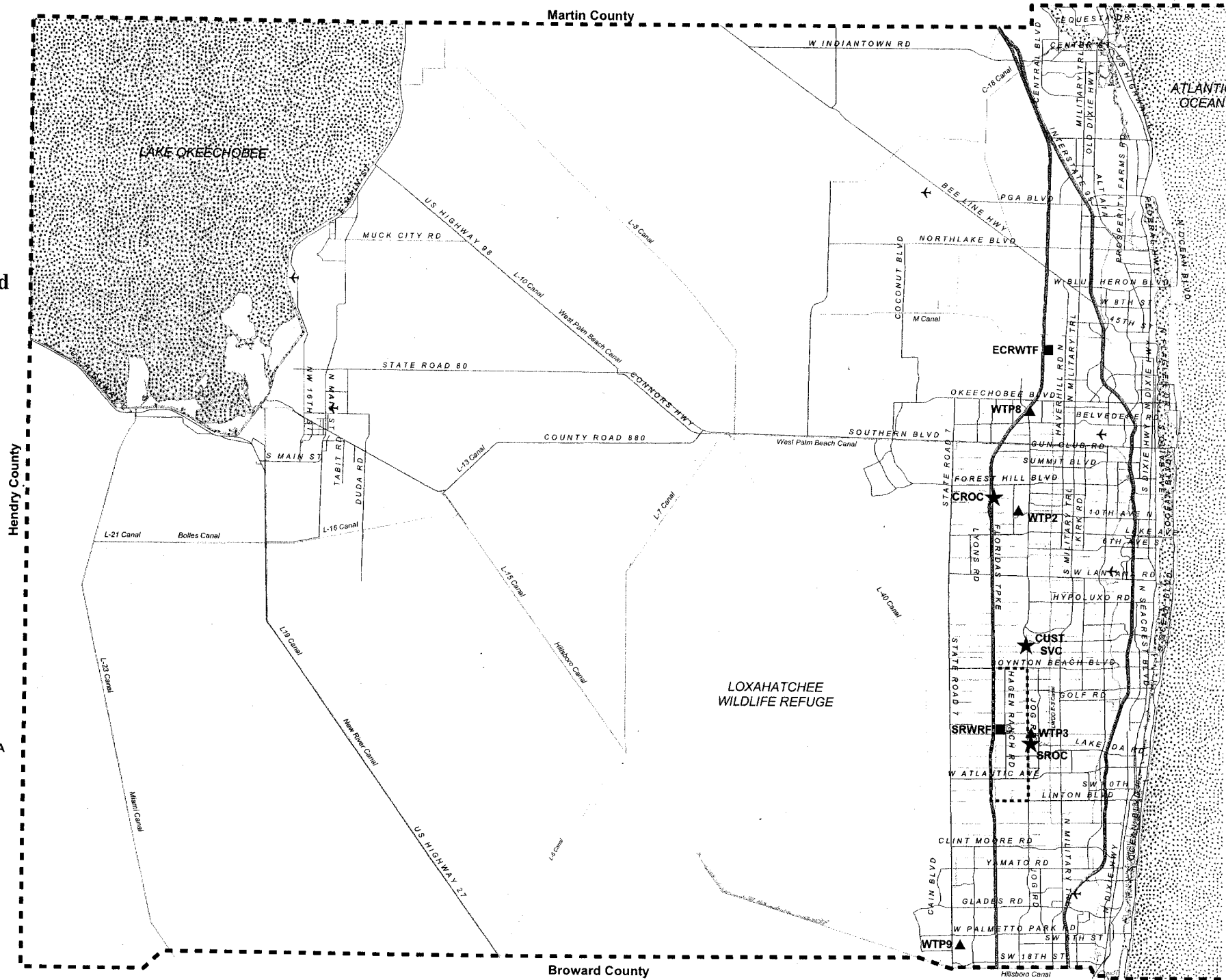
Attachment 4

Legend

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



NOT TO SCALE



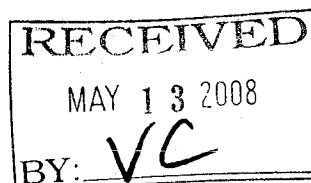
Inter-Office Memorandum

05-14-08 A08:46 IN

Palm Beach County



Water Utilities Department



DATE: May 9, 2008

TO: Bevin A. Beaudet, P.E.
DirectorFROM: Maurice Tobon, P.E. *mt*
Director of EngineeringRE: Notice of Award Recommendation
Floridan and Deep Injection Well Continuing Construction Contract
Project No. WUD 08-051

The bid opening for the above referenced project was held on Wednesday, April 30, 2008. Proposals were received from two (2) contractors. The complete Bid Tabulation is attached. The engineer's opinion of probable construction cost was \$3,800,000 for Bid Item Numbers 1 through 23. An evaluation of the low bid is as follows:

1. The Bid Form provided in the Contract Documents was properly executed.
2. Bid security equal to 5% of the total base bid was enclosed with the bid.
3. SBE-M/WBE Schedules #1 and #2 were provided. The contractor did meet the 15% SBE goal established under the SBE Ordinance, (see attached SBE-M/WBE compliance review).
4. The lowest responsive bidder acknowledged the two (2) addendums.
5. The contractor holds a valid state contractor's license, well drilling license and has local preference in Palm Beach County. A copy of the license information is included.

The overall experience, qualifications, resources and references of the low bidder were carefully considered when evaluating the bids. A copy of the memo regarding references for Southeast Drilling Services, Inc. is also enclosed. Contract award is recommended to the lowest responsive bidder, Southeast Drilling Services, Inc., in the amount not to exceed \$3,498,800, subject to formal approval by the Board of County Commissioners. A copy of this notice has been posted at the bid opening location and will be left there for a minimum of five (5) business days.

BID TABULATION SHEET

FLORIDAN AND DEEP INJECTION WELL CONTINUING CONSTRUCTION CONTRACT

TITLE

BID#

08-051

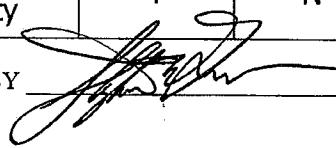
PAGE 1 OF 1

POSTED

REMOVED

	VENDOR 1		VENDOR 2		VENDOR 3		VENDOR 4		VENDOR 5	
	A.C. SHULTES OF FLORIDA		AWE / ALL WEBBS ENTERPRISES, INC.		DIVERSIFIED DRILLING CORP.		SOUTHEAST DRILLING SERVICES, INC.			
TOTAL BASE BID	\$		\$5,342,960.00		\$		\$ 3,498,800.00		\$	
Attachment #1 BID BOND	Y	N	(Y)	N	Y	N	(Y)	N	Y	N
Addendum #1 Addendum #2	Y	N	(Y)	N	Y	N	(Y)	N	Y	N
Attachment #2 SBE-M/WBE Schedules	Y	N	(Y)	N	Y	N	(Y)	N	Y	N
Attachment #3 Certification of Business Location	Y	N	(Y)	N	Y	N	(Y)	N	Y	N
Attachment #4 List of Subcontractors	Y	N	(Y)	N	Y	N	(Y)	N	Y	N
Attachment #5 Trench Safety	Y	N	(Y)	N	Y	N	(Y)	N	Y	N

BIDS PICKED UP BY



ENGINEER

DATE

Attachment 5

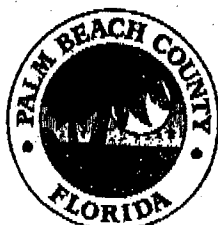
pg. 2

FROM : OSBA

FAX NO. : 5616166850

May. 09 2008 01

Attachment 6



Office of Small Business Assistance
50 South Military Trail, Suite 209
West Palm Beach, FL 33415
(561) 616-6840
FAX: (561) 616-6850
www.pbcgov.com/osba

DATE: May 9, 2008
TO: Diana Rivera, P.E.
Engineering Division
THROUGH: Allen Gray, Manager
Office of Small Business Assistance
FROM: Tanoy Williams, Compliance Specialist
SUBJECT: Compliance Review on Project No. WUD 08-051
Floridan and Deep Injection Well Continuing
Construction Contract

A. Gray
Tw

The following is a Compliance Review of SBE participation on the above-mentioned project.

Palm Beach County Board of County Commissioners
Addie L. Greene, Chairperson
Jeff Koons, Vice Chair
Karen T. Marcus
Robert J. Kanjian
Mary McCarty
Burt Aronson
Jess F. Santamaria
County Administrator
Robert Weisman, P.E.

Low Bidder: Southeast Drilling Services, Inc.
119 Lucina Drive
Hypoluxo, FL 33462
Phone: 561-493-9832
Bid Opening: 04/30/2008
Bid Amount: \$3,498,800.00
Goal: 15% Overall
Goal Achieved: 57.16%

SBE Participation:
(SB) Southeast Drilling \$2,000,000.00 57.16%

2nd Low Bidder: All Webbs Enterprises, Inc.
309 Commerce Way
Jupiter, FL 33458
Phone: 561-746-2079
Bid Amount: \$5,342,960
Goal: 15% Overall
Goal Achieved 0.09%

SBE Participation:
(HB) Corcel Corp. \$767,492.63
x .60
\$460,495.58 0.09%

"An Equal Opportunity
Affirmative Action Employer"

FROM : OSBA

FAX NO. : 5616166850

May. 09 2008

Attachment 6



EVALUATION

The low Bidder, Southeast Drilling Services, Inc., has met the SBE requirement for this project.

c:

Hazel Oxendine, Director - OSBA
Tammy Fields, Assistant County Attorney