

**Lee County Board Of County Commissioners
Agenda Item Summary**

Blue Sheet No. 20040248

1. REQUESTED MOTION:

ACTION REQUESTED: Approve Supplemental Task Authorization (STA) No. 1 to Johnson Engineering, Inc. for CN-03-02 DESIGN OF CORKSCREW 5 MGD WELLFIELD EXPANSION (Contract No. 2660) to replace four (4) poorly to non-producing Sandstone Aquifer wells. It is proposed to replace wells 2, 3, 4, and 5 as part of this project. The Lump Sum amount for the replacement wells is \$176,000.00.

WHY ACTION IS NECESSARY: Board approval is required.

WHAT ACTION ACCOMPLISHES: To increase raw water production at the Corkscrew Wellfield through additional production from the Sandstone Aquifer.

2. DEPARTMENTAL CATEGORY:

10. Utilities

3. MEETING DATE:

03-16-2004

COMMISSION DISTRICT #:

C10L

4. AGENDA:

- CONSENT
- ADMINISTRATIVE
- APPEALS
- PUBLIC
- WALK ON
- TIME REQUIRED:

5. REQUIREMENT/PURPOSE:

(Specify)

- STATUTE
- ORDINANCE
- ADMIN. CODE AC-4-4
- OTHER

6. REQUESTOR OF INFORMATION:

- A. COMMISSIONER
- B. DEPARTMENT Public Works
- C. DIVISION Utilities
- BY: Rick Diaz, Director

[Signature]
3/3/04

7. BACKGROUND:

Letters of interest were solicited on behalf of the Board of County Commissioners for professional services for the Design of Corkscrew 5 MGD Wellfield Expansion. On February 4, 2004 the Board approved a waiver of Lee County Ordinance 92-22 to allow Johnson Engineering, Inc., number one ranked firm, to continue with the design phase of the Corkscrew Wellfield Expansion.

This Supplemental Task Authorization (STA) No. 1 provides Johnson Engineering, Inc. under CN-03-02 DESIGN OF CORKSCREW 5 MGD WELLFIELD EXPANSION (Contract No. 2660) to replace four (4) poorly to non-producing Sandstone Aquifer wells. It is proposed to replace wells 2, 3, 4, and 5 as part of this project. This work will increase raw water production at the Corkscrew Wellfield through additional production from the Sandstone Aquifer. The Lump Sum amount for the replacement wells is \$176,000.00.

Funds are available from account string: 20709748712.506510

Attachments: Three (3) copies of the Supplemental Task Authorization No. 1 for execution.

8. MANAGEMENT RECOMMENDATIONS:

9. RECOMMENDED APPROVAL:

A Department Director	B Purchasing or Contracts	C Human Resources	D Other	E County Attorney	F Budget Services			G County Manager
					OA	OM	Risk	
<i>J. Jaramila</i> 3.3.04	<i>Cindy Fogarty</i> 3/3 by ML	N/A	<i>SAD</i> 3/3/04	<i>S. P. Smith</i> 3/3/2004	<i>OA</i> 3-3-04	<i>OM</i> 3/4/04	<i>Risk</i> 3/3/04	<i>J. Jaramila</i> 3.3.04

10. COMMISSION ACTION:

- APPROVED
- DENIED
- DEFERRED
- OTHER

Rec. by CoAtty
Date: 3/3/04
Time: 10am
Forwarded To:
Admin 3/3

RECEIVED BY
COUNTY ADMIN:
03/25/04
11:20 AM
COUNTY ADMIN
FORWARDED TO:
3/4/04
1030am

LEE COUNTY PROFESSIONAL SERVICE/SERVICE PROVIDER AGREEMENT
CHANGE ORDER/SUPPLEMENTAL TASK AUTHORIZATION

Change Order
 Supplemental Task Authorization

NO. 1

(A Change Order or Supplemental Task Authorization Requires Approval by the Department Director for Expenditures Under \$25,000 or Approval by the County Manager for Expenditures Between \$25,000 and \$50,000 or Approval by the Board of County Commissioners for Expenditures over \$50,000)

CONTRACT/PROJECT NAME Design of Corkscrew 5 MGD Wellfield Expansion

CONSULTANT Johnson Engineering, Inc. PROJECT NO. 207097

SOLICIT NO.: CN-03-02 CONTRACT NO. 2660 ACCOUNT NO. 20709748712

REQUESTED BY: Ivan Velez, P.E. DATE OF REQUEST: February 27, 2004

Upon the completion and execution of this Change Order or Supplemental Task Authorization by both parties the Consultant/Provider is authorized to and shall proceed with the following:

EXHIBIT "CO/STA-A:	SCOPE OF PROFESSIONAL SERVICE:	DATED: <u>February 27, 2004</u>
EXHIBIT "CO/STA-B:	COMPENSATION & METHOD OF PAYMENT:	DATED: <u>February 27, 2004</u>
EXHIBIT "CO/STA-C:	TIME AND SCHEDULE OF PERFORMANCE:	DATED: <u>February 27, 2004</u>
EXHIBIT "CO/STA-D:	CONSULTANT'S/PROVIDERS ASSOCIATED SUB-CONSULTANT(S)/SUB-CONTRACTORS:	DATED: <u>February 27, 2004</u>
EXHIBIT "CO/STA-E:	PROJECT GUIDELINES AND CRITERIA:	DATED: <u>February 27, 2004</u>

It is understood and agreed that the acceptance of this modification by the CONSULTANT/PROVIDER constitutes an accord and satisfaction.

RECOMMENDED: [Signature]
By: [Signature] 3/1/04
Department Director Date

ACCEPTED: [Signature]
By: [Signature]
Consultant/Provider

COUNTY APPROVAL:
By: _____
Department Director
(Under \$25,000)
Date Approved: _____

By: [Signature] 3/2/04
Contracts Mgmt Date

Date Accepted: 2/27/04

Corporate Seal

APPROVED:
By: _____
*County Attorney's Office Date

By: _____
County Manager (Between
(\$25,000 and under \$50,000)
Date Approved: _____

*County Attorney signature needed
for over Board level expenditures only.

By: _____
Chairman
Board of County Commissioners
Date Approved: _____

CHANGE ORDER AGREEMENT No. _____

or

SUPPLEMENTAL TASK AUTHORIZATION No. 1

EXHIBIT "CO/STA-A"

Date: February 27, 2004

SCOPE OF PROFESSIONAL SERVICES

for Design of Corkscrew 5 MGD Wellfield Expansion

(Enter Project Name from Page 1 of the
Change Order or Supplemental Task Authorization)

SECTION 1.00 CHANGE(S) TO PROFESSIONAL SERVICES

The "Scope of Professional Services" as set forth in Exhibit "A" of the Professional Services Agreement, or Service Provider Agreement, referred to hereinbefore is hereby supplemented, changed or authorized, so that the CONSULTANT or SERVICE PROVIDER, shall provide and perform the following professional services, tasks, or work as a supplement to, change to, or authorized to, the scope of services previously agreed to and authorized:

GENERAL SCOPE STATEMENT

Recent water use permitting has provided Lee County Utilities with the opportunity to increase raw water production at its Corkscrew Wellfield through additional production from the Sandstone Aquifer. The wellfield has ten (10) existing Sandstone Aquifer wells with eleven (11) proposed.

The South Florida Water Management District has required Lee County Utilities to prepare a wellfield operating plan to minimize impacts to wetlands. Johnson Engineering is currently assisting Lee County Utilities staff in preparing that plan. Investigations as part of that effort have identified problems with existing wellfield operations, namely underutilization of the Sandstone Aquifer due to faulty well design and construction.

In an effort to save Lee County construction costs and time, Johnson Engineering proposes to replace four (4) poorly to non-producing Sandstone Aquifer wells. The hydrogeological information and production rates achieved under a new well design by Johnson Engineering can greatly impact the proposed expansion of the wellfield. Based on current testing efforts completed as part of the recent expansion project, it is anticipated that a reduced expansion effort will be possible.

It is proposed to replace wells 2, 3, 4, and 5 as part of this project.

TASK-11 – Replacement Wells

SCOPE OF WORK

1. Obtain well construction permits from South Florida Water Management District.
2. Obtain public water supply well location permits from Lee County Health Department.
3. Properly abandon wells 2, 3, 4, and 5 by pulling the existing pumps and filling the wells with cement from bottom to top via tremie pipe method.
4. For each well location mobilize rig, equipment, cement, bentonite, and casing.
5. For each well location drill 22 ½ inch hole to 20 feet and install 18 inch surface casing.
6. For each well location drill a 5 inch pilot hole to the Sandstone Aquifer to log the lithology and identify the proper casing setting depths.
7. Ream each pilot hole with 18 ½ inch to the determined depth.
8. Furnish and install 12 inch schedule 40 PVC casing.
9. Fill the annular space between the casing and borehole with cement via pressure grout method.
10. Drill out a 12 inch borehole below the casing into the Sandstone Aquifer to the proper depth.
11. Air-lift develop the well to remove sediments.
12. Install temporary vertical turbine pump to 100 feet.
13. Pump well for additional development.
14. Perform specific capacity pumping tests on the wells to determine appropriate production pumping rates and anticipated drawdowns.
15. Collect water samples at the end of the specific capacity tests and analyze water samples for turbidity, dissolved chloride, and electrical conductivity.
16. Prepare completion reports for each well.
17. Prepare technical memo documenting all activities.

BASIS OF PROPOSAL

THIS SCOPE OF SERVICES ASSUMES THE FOLLOWING:

1. OWNER will pay all permit application and regulatory fees.
2. OWNER will provide a project manager to process paper work and other duties on behalf of the OWNER.
3. Additional scope items will be approved in writing by the OWNER prior to commencing the work.

CHANGE ORDER AGREEMENT No. _____

or

SUPPLEMENTAL TASK AUTHORIZATION No. 1

EXHIBIT "CO/STA-B"

Date: February 27, 2004

COMPENSATION AND METHOD OF PAYMENT

for **Design of Corkscrew 5 MGD Wellfield Expansion**

(Enter Project Name from Page 1 of the
Change Order or Supplemental Task Authorization)

SECTION 1.00 CHANGE(S) IN COMPENSATION

The compensation the CONSULTANT, or SERVICE PROVIDER, shall be entitled to receive for providing and performing the supplemented, changed or authorized services, tasks, work as set forth and enumerated in the Scope of Services set forth in this CHANGE ORDER OR SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", attached hereto shall be as follows:

NOTE: A Lump Sum (L.S.) or Not-to-Exceed (N.T.E.) amount of compensation to be paid the CONSULTANT should be established and set forth below for each task or sub-task described and authorized in Exhibit "S/COA-A". In accordance with Professional Services Agreement Article 5.03(2) "Method of Payment", tasks to be paid on a Work-in-Progress payment basis should be identified (WIPP).

Task Number	Task Title	Amount of Compensation	Indicate Basis of Compensation LS or NTE	If Applicable Indicate (W.I.P.P.)
11	Replacement Wells	\$176,000	LS	W.I.P.P.
TOTAL		\$176,000	LS	W.I.P.P.

(Unless list is continued on next page)

CHANGE ORDER AGREEMENT No. _____

or

SUPPLEMENTAL TASK AUTHORIZATION No. 1

EXHIBIT "CO/STA-D"

Date: February 27, 2004

CONSULTANTS, OR SERVICE PROVIDER'S, ASSOCIATED SUB-CONSULTANT(S) AND SUBCONTRACTOR(S)

for Design of Corkscrew 5 MGD Wellfield Expansion

(Enter Project Name from Page 1 of the Change Order or Supplemental Task Authorization)

CONSULTANT, or SERVICE PROVIDER, intends to engage the following sub-consultant(s) and/or sub-contractor(s) to assist the CONSULTANT, or SERVICE PROVIDER, in providing and performing the services, tasks, or work required under this CHANGE ORDER, or SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT.

(If none, enter the work "none" in the space below.)

Service and/or Work to be Provided or Performed	Name and Address of Individual or Firm	Disadvantaged, Minority or Women Business Enterprise, (If Yes, Indicate Type)			Sub-Consultant Services are Exempted from Prime Consultant's Insurance Coverage	
		Yes	No	Type	Yes	No
Well Drilling	Troy Moore Well Drilling 5681 Pangola Drive Fort Myers, FL 33905		X		X	

CHANGE ORDER AGREEMENT No. _____

or

SUPPLEMENTAL TASK AUTHORIZATION No. 1

EXHIBIT "CO/STA-E"

Date: February 27, 2004

PROJECT GUIDELINES AND CRITERIA

for Design of Corkscrew 5 MGD Wellfield Expansion

(Enter Project Name from Page 1 of the
Change Order or Supplemental Task Authorization)

As a supplement, or change, to the Project Guidelines and Criteria set forth in the Professional Services Agreement, or Service Provider Agreement, Exhibit "E", the COUNTY has established the following Guidelines, Criteria, Goals, Objectives, Constraints, Schedule, Budget, and/or Requirements which shall serve as a guide to the CONSULTANT, or SERVICE PROVIDER, in performing the professional services, tasks, or work to be provided pursuant to the professional services set forth hereinbefore in CHANGE ORDER or SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", attached hereto:

(If none, enter the word "None" in the space below.)

ITEM No. 1

NONE

TROY MOORE WELL DRILLING

5681 Pangola Drive

Fort Myers, Florida 33905

Phone (239) 694-1144 Fax (239) 694-3236

PROJECT:

LEE COUNTY UTILITIES

CORKSCREW WELLFIELD

SANDSTONE REPLACEMENT WELLS

PROPOSAL TO:

Lonnie Howard

Johnson Engineering, Inc

P.O. Box 1550

Fort Myers, Florida 33902

Construct 12 inch Sandstone Replacement Well

	qty	type	unit cost	extend cost
Mobile drill, equipment, and materials	1	LS	\$15,000	\$15,000
Drill 22.5" hole to 20 feet and install 18" surface casing	20	LF	\$50	\$1,000
Drill 5" pilot hole	200	LF	\$5	\$1,000
Ream pilot hole with 18.5" bit	200	LF	\$25	\$5,000
Furnish and install 12" SCH 40 PVC casing	200	LF	\$15	\$3,000
Cement casing to surface	200	CF	\$15	\$3,000
Drill 12" borehole for open interval	100	LF	\$20	\$2,000
Air develop well	10	HR	\$50	\$500
Install temporary vertical turbine pump to 100 feet	1	LS	\$1,500	\$1,500
Over-pump well to develop and run step tests	10	HR	\$250	\$2,500

Abandon Existing Well

Mobilize equipment and materials	1	LS	\$2,500	\$2,500
Pull existing pump	1	LS	\$1,000	\$1,000
Install tremie pipe to bottom of well	1	LS	\$250	\$250
Furnish and pump 5% gel cement	200	CF	\$10	\$2,000

total per well price				\$40,250
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Total for replacement of wells 2,3,4, and 5				\$161,000
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FEB 27 2004