

Lee County Board Of County Commissioners
Agenda Item Summary

Blue Sheet No. 20070500

1. ACTION REQUESTED/PURPOSE: Approve Supplemental Task Authorization (STA) No. 8 to TKW Consulting Engineers, Inc. (Contract No. 1862), under CN-01-11 MISCELLANEOUS UTILITY ENGINEERING DESIGN AND/OR INSPECTION SERVICES, for the project known as GATEWAY WASTEWATER TREATMENT PLANT EXPANSION – 2 MGD AND TRANSMISSION MAIN, in the amount of \$317,602.00. Further, authorize Chair to execute STA on behalf of the Board.

2. FUNDING SOURCE: Fund: LCU Sewer Connection Fees; Program: Capital Improvement; Project: Gateway Wastewater Treatment Plant Expansion.

3. WHAT ACTION ACCOMPLISHES: Finalize the design, incorporate value engineering concepts, and prepare the contract documents for competitive bid contract delivery of 2 Million Gallon per Day expansion.

4. MANAGEMENT RECOMMENDATION: Approve.

5. Departmental Category: 10 - Utilities CIOF		6. Meeting Date: 04/10/07
7. Agenda: <input checked="" type="checkbox"/> Consent <input type="checkbox"/> Administrative <input type="checkbox"/> Appeals <input type="checkbox"/> Public <input type="checkbox"/> Walk-On	8. Requirement/Purpose: (specify)	
	<input type="checkbox"/> Statute	<input type="checkbox"/> Commissioner
	<input type="checkbox"/> Ordinance	<input type="checkbox"/> Department Public Works
	<input type="checkbox"/> Admin. Code	<input type="checkbox"/> Division Utilities
<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Approval	By: <i>Douglas L. Meurer</i> 3-28-2007 Douglas L. Meurer, P.E., Director

10. Background: Design services were authorized to TKW under CN-01-11 Miscellaneous Utility Engineering Design and/or Inspection Services, for the Gateway Wastewater Treatment Plant Expansion project.

The Board approved STA 5 and STA 7 to design 2 Million Gallon per Day (MGD) expansion by TKW on November 18, 2003 and on May 10, 2005 for amount \$596,400.00 and \$80,000.00 respectively.

This STA is a continuation of the design services. The services incorporate value engineering revisions to the current design, prepare contract documents for a traditional competitive bid contract and provide a value engineering report to DEP to pursue the State Revolving Fund Loan. The gateway facility is approaching capacity and this project is necessary to provide adequate capacity over the next five years.

TKW will provide construction documents necessary for obtaining competitive bids for the construction.

Funds are available in Account #20700048713.506510 Originals: 4

11. Review for Scheduling:

Department Director	Purchasing or Contracts	Human Res.	Other	County Attorney	Budget Services				County Manager/P.W. Director
					Analyst	Risk	Grants	Mgr.	
<i>J. Lavender</i> Date: 3-28-07	<i>Culley</i> Date: 3/28/07	N/A Date:	Date:	<i>J. Schuchman</i> Date: 3/28/07	<i>ebw</i> 3/29/07	<i>MLR</i> 3/29/07	<i>MLR</i> 3/29/07	<i>J. Lavender</i> Date: 3-28-07	

12. Commission Action:
 Approved
 Deferred
 Denied
 Other

RECEIVED BY COUNTY ADMIN: <i>EW</i> 3/28/07 3:30 pm	Rec. by CoAtty Date: 3/28/07 Time: 2:22 pm
COUNTY ADMIN FORWARDED TO: <i>ML</i> 3/29/07 4 pm	Forwarded To: 3/28/07 3:00 pm

(Prepared by Contracts)

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

Change Order
 Supplemental Task Authorization

NO.: 8

(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: Miscellaneous Utility Engineering Design and/or Inspection Services: Additional Services for Airport Sewer District Gateway Wastewater Treatment Plant Expansion – 2 MGD and Transmission Main (continuation of services authorized under STA 5 and STA 7)

CONSULTANT: TKW CONSULTING ENGINEERS, INC. PROJECT NO.: _____

SOLICIT NO.: CN-01-11 CONTRACT NO.: 1862 ACCOUNT NO.: 207000 48713 5065 10

REQUESTED BY: Utilities DATE OF REQUEST: _____

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: March 23, 2007

EXHIBIT "CO/STA-B": COMPENSATION & METHOD OF PAYMENT: DATED: March 23, 2007

EXHIBIT "CO/STA-C": TIME AND SCHEDULE OF PERFORMANCE: DATED: March 23, 2007

EXHIBIT "CO/STA-D": CONSULTANT'S/PROVIDERS ASSOCIATED SUB-CONSULTANT(S)/SUB-CONTRACTORS: DATED: March 23, 2007

EXHIBIT "CO/STA-E": PROJECT GUIDELINES AND CRITERIA: DATED: March 23, 2007

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

RECOMMENDED:
By: [Signature] 3-27-2007
Department Director Date

ACCEPTED:
By: [Signature]
Consultant/Provider

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

By: [Signature] 3/27/07
Contracts Mgmt Date

Date Accepted: March 26, 2007

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



By: _____
County Manager
(Between \$25,000 and \$50,000)
Date Approved: _____
By: _____
Chairman
Board of County Commissioners
Date Approved: _____

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

CHANGE ORDER AGREEMENT No.
or
 SUPPLEMENTAL TASK AUTHORIZATION No. 8

EXHIBIT "CO/STA-A"

Date: March 23, 2007

SCOPE OF PROFESSIONAL SERVICES

for Miscellaneous Utility Engineering Design and/or Inspection Services: **Additional Services for**

Airport Sewer District Gateway Wastewater Treatment Plant Expansion – 2MGD and

Transmission Main

(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:

Additional Services for Airport Sewer District Gateway Wastewater Treatment Plant Expansion - 2 MGD and Transmission Main include Environmental Engineering, Electrical Engineering, Instrumentation and Control Engineering, Civil Engineering, Structural Engineering, Architecture, and Mechanical Engineering as follows:

TASK 1.00 – Technical Studies and Reports

Provide a Value Engineering Report to include the following:

- Description of each Value Engineering action taken throughout the design process;
- Savings achieved by each Value Engineering action;
- Advantages and disadvantages of each Value Engineering action; and
- Redesign cost for each Value Engineering action.

TASK 3.00 – Flow Analysis & Hydraulic Calculations

Perform flow analysis and hydraulic calculations as required for the revised hydraulic profile within the Gateway Wastewater Treatment Plant related to the elimination of the Mixed Liquor Pumping Station and the addition of a Filter Influent Pumping Station.

Perform hydraulic calculations as required to evaluate the Transmission Main based on revisions to the Airport Sewer District Service Area with the elimination of areas that will be served by the City of Fort Myers.

TASK 4.00 – New Water and/or Sewer Facilities Construction Plans & Technical Specifications

Construction Plans & Technical Specifications for Airport Sewer District Gateway Wastewater Treatment Plant Expansion – 2 MGD

Provide design services and prepare drawings and technical specifications for changes to the Gateway Wastewater Treatment based on Value Engineering, correlation with the overall Lee County Utilities Bio-solids Management Plant, and operational and maintenance improvements. Additional design services and revisions to the drawings and technical specifications will be based on the following:

01 – Site Construction

Eliminate the elevated walkway between the various stages within the process train but provide operating level access between treatment units within each stage of the process train as follows:

Provide for future elevated walkways between the Influent Structure that will be constructed as part of the Gateway Wastewater Treatment Plant Expansion – 2 MGD and the future Influent Structure to be constructed as part of the Expansion from 3.0 MGD to 5.0 MGD;

Provide for future elevated walkways between the Oxidation Ditches that will be constructed as part of the Gateway Wastewater Treatment Plant Expansion – 2 MGD and the future Oxidation Ditches to be constructed as part of the Expansion from 3.0 MGD to 5.0 MGD and the Expansion from 5.0 MGD to 6.0 MGD;

Provide elevated walkways between Secondary Clarifier No. 1, Secondary Clarifier No. 2, the Waste Sludge and Scum Sump, the Mixed Liquor Control Structure, and the RAS Structure that will be constructed as part of the Gateway Wastewater Treatment Plant Expansion – 2 MGD; include provisions for the elevated walkway to be extended to the future Secondary Clarifiers and Waste Sludge and Scum Sump to be constructed as part of the Expansion from 3.0 MGD to 5.0 MGD and the Expansion from 6.0 MGD to 8.0 MGD;

Provide elevated walkways between the Effluent Filters and Filter Blower Building that will be constructed as part of the Gateway Wastewater Treatment Plant Expansion – 2 MGD; provide for future elevated walkways between the Effluent Filters that will be constructed as part of the Gateway Wastewater Treatment Plant Expansion – 2 MGD and future Effluent Filters to be constructed as part of the Expansion from 3.0 MGD to 5.0 MGD, the Expansion from 5.0 MGD to 6.0 MGD, and the Expansion from 6.0 MGD to 8.0 MGD;

Provide for future elevated walkways between the Chlorine Contact Tanks that will be constructed as part of the Gateway Wastewater Treatment Plant Expansion – 2 MGD and future Chlorine Contact Tanks to be constructed as part of the Expansion from 3.0 MGD to 5.0 MGD, the Expansion from 5.0 MGD to 6.0 MGD, and the Expansion from 6.0 MGD to 8.0 MGD; and

Provide for future elevated walkways between the Digesters that will be constructed as part of the Gateway Wastewater Treatment Plant Expansion – 2 MGD and the future Digesters to be constructed as part of the Expansion from 3.0 MGD to 5.0 MGD and the Expansion from 5.0 MGD to 6.0 MGD.

Revise the yard piping and electrical duct bank as required by the following:

Reduction in the length of the Oxidation Ditches by 30 feet and increase in the depth of the Oxidation Ditches by 2 feet to facilitate the elimination of the Mixed Liquor Pumping Station;

Reduction in the overall height of the Secondary Clarifiers by approximately 8 feet and the relocation of the Secondary Clarifiers to facilitate the elimination of the Mixed Liquor Pumping Station and the addition of a Filter Influent Pumping Station;

Addition of a Mixed Liquor Control Structure between the Oxidation Ditches and Secondary Clarifiers;

Addition of RAS pumps required by the change in the relative elevation between the Oxidation Ditches and Secondary Clarifiers resulting from the elimination of the Mixed Liquor Pumping Station;

Addition of a Filter Influent Pumping Station required by the change in the relative elevations between the Secondary Clarifiers and the Effluent Filters resulting from the elimination of the Mixed Liquor Pumping Station;

Elimination of the Sludge Thickener;

Changes to the configuration of Digester No. 1 to match Digester No. 2 as related to the elimination of the Sludge Thickener, rearrangement of the Sludge Loading Station, and site revisions to increase the space within the site to accommodate fewer and larger reuse storage tanks for this project and future expansions;

Changes to the location and configuration of the Sludge Loading Station to accommodate the mobile sludge dewatering system and provide a drive-thru arrangement;

Changes to the size and location of the reuse storage tanks and reject storage tanks so that sufficient reuse storage can be constructed within the existing site and adjacent property to be acquired by Lee County;

Changes in the location and arrangement of the Influent Structure to increase the space within the site to accommodate fewer and larger reuse storage tanks for this project and future expansions; and

Change in the location of the Electrical Building to accommodate fewer and larger reuse storage tanks for this project and future expansions.

Revisions to the storm sewer system related to the relocation of structures and changes in structure configurations.

Revisions to the access drives related to the relocation of structures and changes in structure configurations.

Revise landscape drawings in conformance with changes requested by the Gateway Community, approved by Lee County Utilities, and agreed to by the Landscape Architect. Landscape changes will be in conformance to the Lee County Development Code.

02 - Influent Structure

Relocate and re-orient the Influent Structure to accommodate fewer and larger reuse storage tanks for this project and future expansions; and

Increase the height of the Influent Structure to facilitate the elimination of the Mixed Liquor Pumping Station.

Change Influent Transfer Pumps from dry-pit submersible pumps to horizontal non-clog pumps to insure pump motors will not over-heat and to improve motor access for maintenance.

03 –Oxidation Ditch No. 1 and No. 2

Reduce the length of the Oxidation Ditches by 30 feet and increase the depth of the Oxidation Ditches by 2 feet to facilitate the elimination of the Mixed Liquor Pumping Station; Raise the Oxidation Ditches approximately 2 feet to facilitate the elimination of the Mixed Liquor Pumping Station; and

Revise the oxidation ditch access stairways and walkways to accommodate the increased depth and height of the oxidation ditches.

04 - Mixed Liquor Facility

Eliminate the Mixed Liquor Pumping Station to reduce pumping cost and improve operations; Add a Mixed Liquor Control Structure to provide positive equal distribution of mixed liquor flow, over the entire flow range, to each Secondary Clarifier;

Include provisions in the Mixed Liquor Control Structure for connection of future oxidation ditches and clarifiers;

Revise the RAS Structure to receive pumped sludge flow from two RAS pumps that will be constructed as part of the Gateway Wastewater Treatment Plant Expansion – 2 MGD; include provisions in the RAS Structure to receive pumped sludge flow from two future RAS pump to be constructed as part of the Expansion from 3.0 MGD to 5.0 MGD; and

Raise the RAS Structure to maintain gravity flow from the RAS Structure to the Oxidation Ditches that have been raised and increased in depth.

05 - Secondary Clarifiers

Make changes to the Secondary Clarifiers, in combination with changes to the Oxidation Ditches and Influent Structure, that will reduce the clarifier design water level sufficiently to allow gravity flow from the Influent Structure, through the Oxidation Ditches, Mixed Liquor Control Structure, and Secondary Clarifiers, to the Filter Influent Pump Station. Changes to the Secondary Clarifiers will include the following:

Change the sludge collection mechanism from multi-tube type to suction tube type so that the clarifier floors can be flat instead of sloped, all of which will allow the Secondary Clarifiers to be lowered without penetrating the rock beneath the clarifiers;

Reduce the side water depth of the Secondary Clarifiers from 18 feet to 15 feet.

Add two variable speed RAS pumps that are directly connected to the suction tube sludge collector mechanisms in the Secondary Clarifiers. Arrange the RAS pumps and sludge piping so that each RAS pump can pump from a single clarifier to provide positive control of return activated sludge flow from each clarifier and so that each pump can back up the other pump in case of a pump or motor failure. Provide Vaughan Chopper pumps to insure the RAS pumps will not become clogged with solids and stringy material.

Eliminate the WAS flow control valve, which will not function as intended when the Secondary Clarifiers are lowered because the water level in the Secondary Clarifiers will be below the maximum water level in the Digesters. Change the WAS piping so that WAS flow from the Secondary Clarifiers to the Waste Sludge and Scum Sump can be started and stopped with a motor actuated valve and measured with a magnetic flow meter to provide positive control of sludge wasting to the Digesters. WAS pumps will be arranged to pump a combination of scum and waste activated sludge from the Waste Sludge and Scum Sump to the Digester. WAS pump piping will also be arranged so that the WAS pumps can be used to drain the Secondary Clarifiers.

Relocate the Secondary Clarifiers as required to facilitate the elimination of the Mixed Liquor Pumping Station and the addition of a Filter Influent Pumping Station.

Increase the separation between Secondary Clarifiers No. 1 and No. 2, that will be constructed as part of the Gateway Wastewater Treatment Plant Expansion – 2 MGD, and between future Secondary Clarifiers No. 3 and No. 4, to be constructed as part of the Expansion from 3.0 MGD to 5.0 MGD and the Expansion from 6.0 MGD to 8.0 MGD, to provide space for the addition of RAS pumps between Secondary Clarifiers No. 1 and No. 2 and between future Secondary Clarifiers No. 3 and No. 4. Provide a corresponding reduction in the separation between Secondary Clarifier No. 2 and future Secondary Clarifier No. 3. The secondary clarifiers, sludge pumping systems, and sludge piping will be arranged to that the separation between Secondary Clarifier No. 1 and future Secondary Clarifier No. 4 is not increased.

06 –Effluent Filters

Provide a Filter Influent Pumping Station as required by the change in the relative elevations between the Secondary Clarifiers and the Effluent Filters.

Provide variable submersible filter influent pumps mounted in a wet well so the wet well level can be used to control the pump discharge as required to match the variable effluent flow from the Secondary Clarifiers. Construct the wet well so that it is an integral part of the effluent filter structure.

Relocate the Effluent Filter Air Scour Blowers to a new building so that the Filter Influent Pumping Station can be constructed at the end of the Effluent Clearwell, which is the optimum location for the Filter Influent Pumping Station based on the secondary effluent and filter influent piping.

Provide a building to house the relocated Effluent Filter Air Scour Blowers. Make revisions to the electrical and HVAC systems to facilitate the relocation of the blowers from a room that was connected to the end of the Effluent Clearwell to a new building.

Locate the Filter Blower Building so that it does not interfere with the filter piping and so that the air intake filters on the roof of the can accessed by an elevated walkway between the effluent filter structure and the Filter Blower Building. Locate the Filter Blower Building so that the length of the air scour piping is reduced.

Revise the layout of electrical equipment in the Effluent Filter Electrical Room required by the elimination of the Mixed Liquor Pumping Station pumps and the addition of the Filter Influent Pumping Station Pumps.

07 - Chlorine Contact Tanks

Provide sloping floors in the Chlorine Contact Tanks to facilitate cleaning and flushing of the Chlorine Contact Tanks.

08 - Sodium Hypochlorite Feed Facility (No changes)

09 – Reuse Storage

Retain the existing 2-mg reuse storage tank as a reuse storage tank, with no changes.

Provide one new 6-mg reuse storage tank instead of 2 each 3-mg storage tanks and one 2.5-mg storage tank. The side water depth in the new 6-mg tank will be nearly equal to the side water depth in the existing 2-mg so that the tanks can be interconnected without the need for level control valves. The tank diameter and actual side water depth will be Crom Corporation standard dimensions. The new 6-mg reuse storage tank will have a low rise dome roof to minimize skyline impact.

10 – Reject Storage

Provide one new 2-mg reject water storage tank with no roof. The diameter and height of the 2-mg reject storage tank will be selected so that a future reject storage tank of equal dimensions, to be constructed as part of the Expansion from 3.0 MGD to 5.0 MGD, can be located adjacent to the 2-mg reject storage tank that will be constructed as part of Gateway Wastewater Treatment Plant Expansion – 2 MGD. The height of the 2-mg reject storage tank walls will not exceed the overall height of the 6-mg reuse storage tank.

11 –Bio-Solids Treatment Facility

Eliminate the sludge thickener

Change the configuration of Digester No. 1 to match Digester No. 2 as related to the elimination of the Sludge Thickener, rearrangement of the Sludge Loading Station, and site revisions to increase the space within the site to accommodate fewer and larger reuse storage tanks for this project and future expansions.

Change air diffusers in the Digesters from non-clog type to Red Valve tideflex type

Change the location and configuration of the Sludge Loading Station to accommodate two side-by-side units in the mobile sludge dewatering system and provide a drive-thru arrangement.

Revise the Polymer Building drain piping to include a floor drain at the wye strainers in the polymer piping

12 – Odor Control

Revise the odor control system to provide additional capacity related to the addition height, and corresponding volume, of the Container Room in the Influent Structure, resulting from the increase in height of the Influent Structure to facilitate the elimination of the Mixed Liquor Pumping Station.

Relocate and reorient the Odor Control System, in correlation to the relocation and reorientation of the Influent Structure, to accommodate fewer and larger reuse storage tanks for this project and future expansions.

Place the Odor Control System between the Influent Structure and future Dewatering Building so that the Odor Control System can be expanded, in the future, to serve the Dewatering Building.

13 – Electrical Building

Revise the electrical equipment in the Effluent Filter Electrical Room relative to the elimination of the Mixed Liquor Pumping Station and the Sludge Thickener and the addition of the Filter Influent Pumping Station.

Relocate the Electrical Building to accommodate fewer and larger reuse storage tanks for this project and future expansions

The design of all new facilities that will be constructed as part of the Gateway Wastewater Treatment Plant Expansion – 2 MGD will include provisions for future Effluent Filters to be constructed as part of the Expansion from 3.0 MGD to 5.0 MGD, the Expansion from 5.0 MGD to 6.0 MGD, and the Expansion from 6.0 MGD to 8.0 MGD.

Review Meetings and Revisions for Construction Plans & Technical Specifications

Submit preliminary drawings and specifications for the Gateway Wastewater Treatment Plant Expansion – 2 MGD on a monthly basis and participate in monthly review meetings with Lee County Utilities staff. Make appropriate changes to plans and specifications as agreed to by Lee County Utilities and TKW. The schedule under this STA provides for four monthly review meetings. Submittals and participation in excess of four review meetings will be provided as additional services.

TASK 6.00 – Permits

Prepare drawings for submittal to Lee County Department of Community Development for a DO Permit. Drawings to be included in the DO Permit Application will be signed, dated, and sealed by the appropriate professional. The DO Permit Application will be submitted to the Lee County Department of Community Development by Lee County Department of Public Works.

Respond to questions, related to the DO Permit, from Lee County Department of Community Development as requested by Lee County Utilities.

Participate in meetings between Lee County Department of Community Development staff and Lee County Utilities staff, as requested by Lee County Utilities.

TASK 7.00 – Final Bidding and Contract Documents

Prepare final drawings and technical specifications as required for General Contractors to prepare and submit bids directly to Lee County for the revised Airport Sewer District Gateway Wastewater Treatment Plant Expansion – 2 MGD and the revised Airport Sewer District Transmission Main.

Prepare Bid Schedules, to be included in Proposal Forms prepared by Lee County, for the revised Airport Sewer District Gateway Wastewater Treatment Plant Expansion – 2 MGD and the revised Airport Sewer District Transmission Main.

Provide original drawings and technical specifications, for the revised Airport Sewer District Gateway Wastewater Treatment Plant Expansion – 2 MGD and the revised Airport Sewer District Transmission Main, to Lee County for sale by Lee County to Bidders.

TASK 8.00 – Advisory Services During Bidding

Assist Lee County in direct bidding of the Airport Sewer District Gateway Wastewater Treatment Plant Expansion – 2 MGD and the Airport Sewer District Transmission Main.

Advisory Services During Bidding, to be provided for Airport Sewer District Gateway Wastewater Treatment Plant Expansion – 2 MGD project and the Airport Sewer District Transmission Main project, include the following:

- Respond to written questions from bidders and suppliers regarding bid documents;
- Prepare addenda to include appropriate responses to written questions from bidders and suppliers, with said addenda to be issued by Lee County;
- Attend Pre-Bid Conferences and present project summaries;
- Assist in evaluation of bids, as requested by Lee County; and
- Provide summaries of bids and recommendations for contract award.

NOTE: Services for the following are not included in this STA. These services will be provided as Additional Services if requested and authorized by Lee County:

TASK 1.00 – Technical Studies and Reports

Operation and Maintenance Manual for Gateway Wastewater Treatment Plant and other improvements.

Operating Protocol for Gateway Reuse System and other operating systems.

Additional Environmental Science evaluations, studies, or reports.

TASK 2.00 – Engineering & Land Surveying

Property surveys, topographic surveys, special purpose surveys, or other surveys for property acquired by Lee County adjacent to the existing Gateway Wastewater Treatment Plant site.

Additional property surveys, topographic surveys, special purpose surveys, or other surveys relative to the Airport Sewer District Transmission Main.

Construction surveys

TASK 4.00 – New Water and/or Sewer Facilities Construction Plans & Technical Specifications

Revisions to Construction Plans & Technical Specifications for the Airport Sewer District Transmission Main. (Preparation of Final Bidding and Contract Documents for the Airport Sewer District Transmission Main is included above under TASK 7.00.)

TASK 5.00 – Utility Relocation Plans

All Utility Relocation Plans (none required under the current scope of this project)

TASK 6.00 – Permits

Substantial modifications or minor modifications to FDEP Construction Permit previously issued for the Gateway Wastewater Treatment Plant Expansion.

Substantial modifications or minor modifications to FDEP Construction Permit previously issued for the Airport Sewer District Transmission Main.

Modifications to the South Florida Water Management Permit previously issued for the Gateway Wastewater Treatment Plant Expansion.

Any other permits, not previously issued, required for the construction and operation of the Airport Sewer District Gateway Wastewater Treatment Plant Expansion – 2MGD and Transmission Main, with the exception of services for the Lee County DO Permit specifically stated above.

TASK 7.00 – Final Bidding and Contract Documents

Additional services for Final Bidding and Contract Documents not specifically stated above.

TASK 8.00 – Advisory Services During Bidding

Additional Advisory Services During Bidding not specifically stated above.

TASK 9.00 - Construction Contract Management

All Construction Contract Management Services

- CHANGE ORDER AGREEMENT No.
or
 SUPPLEMENTAL TASK AUTHORIZATION No. 8

EXHIBIT "CO/STA-B"

Date: March 23, 2007

COMPENSATION AND METHOD OF PAYMENT

for Miscellaneous Utility Engineering Design and/or Inspection Services: **Additional Services for**

Airport Sewer District Gateway Wastewater Treatment Plant Expansion and Transmission Main

(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, or 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 CONSUTANT should be established and set forth below for each task or sub-task described and authorized in Exhibit "CO/STA-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 (WIPP)
1.00	Technical Studies and Reports	\$20,636.00	LS	WIPP
3.00	Flow Analysis and Hydraulic Calculations	\$8,360.00	LS	WIPP
4.00	New Water and/or Sewer Facilities Construction Plans & Technical Specifications (Revise Drawings and Specifications)	\$173,550.00	LS	WIPP
4.00	New Water and/or Sewer Facilities Construction Plans & Technical Specifications (Lee County Reviews and Revisions to Drawings and Specifications)	\$31,684.00	Estimate	WIPP
6.00	Permits	\$9,330.00	Estimate	WIPP
7.00	Final Bidding and Contract Documents	\$21,272.00	Estimate	WIPP
8.00	Advisory Services During Bidding	\$53,980.00	Estimate	WIPP
TOTAL (Unless list is continued on next page)		\$317,602.00	NTE	

CHANGE ORDER AGREEMENT No.
or
 SUPPLEMENTAL TASK AUTHORIZATION No. 8

EXHIBIT "CO/STA-B"
ATTACHMENT NO. 1

Date: March 23, 2007

CONSULTANT'S HOURLY RATE SCHEDULE ***

for Miscellaneous Utility Engineering Design and/or Inspection Services: Additional Services for

Airport Sewer District Gateway Wastewater Treatment Plant Expansion and Transmission Main

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

CONSULTANT OR SUB-CONSULTANT NAME TKW Consulting Engineers, Inc.
(A separate Attachment No. 1 should be included for each Sub-Consultant)

(1) Project Position of Classification (function to be Performed)	(2) Current Direct* Payroll Average Hourly Rate	(3) Multiplier**	(4) Hourly Rate to be Charged (column 2x3)
Principal-in-Charge	\$54.69	3.2	\$175.00
Senior Project Manager	\$46.88	3.2	\$150.00
Project Manager	\$39.06	3.2	\$125.00
Senior Engineer	\$39.06	3.2	\$125.00
Senior Environmental Scientist	\$39.06	3.2	\$125.00
Engineer II	\$32.81	3.2	\$105.00
Engineer I	\$29.69	3.2	\$95.00
Environmental Scientist II	\$29.69	3.2	\$95.00
Senior Designer	\$29.69	3.2	\$95.00
Engineer Intern II	\$26.56	3.2	\$85.00
Environmental Scientist I	\$26.56	3.2	\$85.00
Designer	\$26.56	3.2	\$85.00
Engineer Intern I	\$23.43	3.2	\$75.00
Technician II	\$23.43	3.2	\$75.00
(continued on Page 2)			

*NOTE: Direct Payroll hourly rate means the actual gross hourly wage paid.

**NOTE: Indicate applicable multiplier for indirect personnel costs, general administrative and overhead costs, and profit.

***NOTE: A separate personnel hourly rate schedule should also be attached for each Sub-Consultant listed in Exhibit "CO/STA-D".

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EXHIBIT "CO/STA-B"
ATTACHMENT NO. 1

Date: March 23, 2007

CONSULTANT'S HOURLY RATE SCHEDULE ***

for Miscellaneous Utility Engineering Design and/or Inspection Services: Additional Services for

Airport Sewer District Gateway WWTP Expansion – 2 MGD and Transmission Main

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

CONSULTANT OR SUB-CONSULTANT NAME TKW Consulting Engineers, Inc.
(A separate Attachment No. 1 should be included for each Sub-Consultant)

(1) Project Position of Classification (function to be Performed)	(2) Current Direct* Payroll Average Hourly Rate	(3) Multiplier**	(4) Hourly Rate to be Charged (column 2x3)
Building/Threshold Inspector	\$23.43	3.2	\$75.00
Technician I	\$20.31	3.2	\$65.00
Senior Planner	\$43.75	3.2	\$140.00
Planner II	\$37.50	3.2	\$120.00
Planner I	\$31.25	3.2	\$100.00
Professional Land Surveyor	\$42.19	3.2	\$135.00
GPS Crew	\$70.31	3.2	\$225.00
3-Man Field Crew	\$46.88	3.2	\$150.00
2-Man Field Crew	\$39.06	3.2	\$125.00
Survey Tech III	\$31.25	3.2	\$100.00
Survey Tech II	\$25.00	3.2	\$80.00
Survey Tech I	\$15.63	3.2	\$50.00
Clerical	\$15.63	3.2	\$50.00
Contracts Manager	\$23.43	3.2	\$75.00

*NOTE: Direct Payroll hourly rate means the actual gross hourly wage paid.

**NOTE: Indicate applicable multiplier for indirect personnel costs, general administrative and overhead costs, and profit.

***NOTE: A separate personnel hourly rate schedule should also be attached for each Sub-Consultant listed in Exhibit "CO/STA-D".

CHANGE ORDER AGREEMENT No.
or
 SUPPLEMENTAL TASK AUTHORIZATION No. 8

EXHIBIT "CO/STA-B"
ATTACHMENT NO. 1

Date: March 23, 2007

CONSULTANT'S HOURLY RATE SCHEDULE ***

for Miscellaneous Utility Engineering Design and/or Inspection Services: Additional Services for
Airport Sewer District Gateway WWTP Expansion – 2 MGD and Transmission Main

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

CONSULTANT OR SUB-CONSULTANT NAME RKS Consulting Engineers, Inc.
(A separate Attachment No. 1 should be included for each Sub-Consultant)

(1) Project Position of Classification (function to be Performed)	(2) Current Direct* Payroll Average Hourly Rate	(3) Multiplier**	(4) Hourly Rate to be Charged (column 2x3)
Principal/Senior Project Engineer	\$48.39	3.1	\$150.00
Senior Engineer/Design Specialist	\$41.94	3.1	\$130.00
Project Manager/Engineer P.E.	\$37.10	3.1	\$115.00
Graduate Engineer III/Senior Designer	\$32.26	3.1	\$100.00
Graduate Engineer-II/Designer-III	\$29.03	3.1	\$90.00
Graduate Engineer-I/Designer-II	\$25.81	3.1	\$80.00
Electrical Designer-I	\$22.58	3.1	\$70.00
CAD Technician-II/Administrative Assistant	\$19.35	3.1	\$60.00
CAD Technician-I/Receptionist/Clerk	\$16.13	3.1	\$50.00

*NOTE: Direct Payroll hourly rate means the actual gross hourly wage paid.

**NOTE: Indicate applicable multiplier for indirect personnel costs, general administrative and overhead costs, and profit.

***NOTE: A separate personnel hourly rate schedule should also be attached for each Sub-Consultant listed in Exhibit "CO/STA-D".

CHANGE ORDER AGREEMENT No.
or
 SUPPLEMENTAL TASK AUTHORIZATION No. 8

EXHIBIT "CO/STA-C"

Date: March 23, 2007

TIME AND SCHEDULE OF PERFORMANCE

for Miscellaneous Utility Engineering Design and/or Inspection Services: **Additional Services for**
Airport Sewer District Gateway Wastewater Treatment Plant Expansion and Transmission Main

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

SECTION 1.00 CHANGE(S) FOR THIS CHANGE ORDER OR SUPPLEMENTAL TASK
AUTHORIZATION AGREEMENT

The time and schedule of completion for the various phases or tasks required to provide and perform the services, tasks, or work set forth in this CHANGE ORDER OR SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", entitled "Scope of Professional Services" attached hereto is as follows:

Phase and/or Task Reference as Enumerated in EXHIBIT "A"	Name of Title of Phase and/or Task	Number of Calendar Days For Completion of Each Phase and/or Task	Cumulative Number of Calendar Days For Completion from Date of Notice to Proceed For this CO or STA
Task 1.00	Technical Studies and Reports	55 days	55 days
Task 3.00	Flow Analysis & Hydraulic Calculations	55 days	55 days
Task 4.00	New Water and/or Sewer Facilities Construction Plans & Technical Specifications – FDEP SRF Submittal	55 days	55 days
Task 4.00	New Water and/or Sewer Facilities Construction Plans & Technical Specifications - Completion	35 days	90 days
Task 6.00	Permits	15 days	70 days
Task 7.00	Final Bidding and Contract Documents	30 days	90 days
Task 8.00	Advisory Services During Bidding	90 days	180 days

- CHANGE ORDER AGREEMENT No.
or
 SUPPLEMENTAL TASK AUTHORIZATION No. 8

EXHIBIT "CO/STA-D"

Date: March 23, 2017

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

for Miscellaneous Utility Engineering Design and/or Inspection Services: **Additional Services for**

Airport Sewer District Gateway Wastewater Treatment Plant Expansion and Transmission Main

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

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 word "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
Electrical and Instrumentation Engineering	RKS Consulting Engineers, Inc. 15400 Shamrock Drive Fort Myers, FL 33912		✓			✓
Geotechnical Services	ASC geosciences, inc. 5811 Corporation Circle Fort Myers, FL 33905		✓			✓
Landscape Architect	David M. Jones, Jr. & Associates, Inc. 2221 McGregor Blvd Fort Myers, FL 33901		✓			✓
Mechanical Engineering	Kenyon Partners, Inc. 2021 East 7 th Avenue Tampa, FL 33605		✓			✓

- CHANGE ORDER AGREEMENT No.
or
 SUPPLEMENTAL TASK AUTHORIZATION No. 8

EXHIBIT "CO/STA-E"

Date: March 23, 2007

PROJECT GUIDELINES AND CRITERIA

for Miscellaneous Utility Engineering Design and/or Inspection Services: Additional Services for

Airport Sewer District Gateway Wastewater Treatment Plant Expansion – 2MGD and

Transmission Main

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

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.)

NONE