

A G E N D A R E P O R T

DATE July 16, 2002

ITEM: ENGINEERING SERVICES AGREEMENT AMENDMENT No. 2 FOR THE
WWTP SOLIDS HANDLING PROJECT, (O.F. 1176.1)

INITIATED BY: PUBLIC WORKS DEPARTMENT/ENGINEERING BRANCH

ACTION REQUESTED: APPROVE AGREEMENT AMENDMENT

PRESENTED BY: JIM REARDEN, PUBLIC WORKS DIRECTOR

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RECOMMENDATION:

Execute the attached agreement amendment No. 2 between the City of Great Falls, MT and Neil Consultants, Inc. to allow compensation for additional engineering design and construction management services.

MOTION:

"I move the City Commission approve the attached engineering agreement amendment No. 2 with Neil Consultants, Inc. for additional engineering design and construction management services and authorize the City Manager to execute the documents."

SYNOPSIS:

City Staff originally negotiated a professional engineering service contract with Neil Consultants, Inc., (NCI) to provide a design of a new solids handling system at the Wastewater Treatment Plant (WWTP). The City Commission approved the original contract on July 11, 2000 for a negotiated price of \$1,237,700. On May 1, 2001 the City Commission approved amendment No. 1 to the original contract to expand the work scope. That work included facility site evaluations, archaeological investigations, geotechnical research and review, asbestos mitigation planning and additional structural design. That amendment increased the amount of the design phase services by \$72,700, bringing the contract amount to \$1,310,400. This amendment increases the contract amount by \$139,819. The new contract will be \$1,450,219.

This project is an upgrade that was recommended by the 1998 Wastewater Facilities Plan. Recent modifications have required the Engineer to perform additional activities not covered by the original contract or amendment No. 1. Required changes include additional bid document reproduction, on-site concrete testing and inspection, design and testing for digester foundation

alternatives and additional construction inspection and administration due to an increase in contract length.

BACKGROUND:

The 1998 Wastewater Facilities Plan is a guidance document to anticipate the needs in the Wastewater System through the year 2020. The last Facilities Plan was prepared in 1981. Since 1981, many projects recommended by the Facilities Plan have been completed. The new Wastewater Facilities Plan recommended many changes that will be completed in this current solids handling project. The original engineering services contract included design, construction management, and start-up assistance of a new anaerobic digestion and dewatering system at the existing facility.

Since the original engineering services contract was awarded on July of 2000 and amendment #1 was awarded on May 1, 2001, several unanticipated changes have occurred. First, NCI provided all bid document reproduction and distribution, which was not included in the original contract. Secondly, on-site concrete testing and inspection was determined to be a task best performed by NCI. In smaller scale construction projects, the Contractor is required to hire and pay for concrete testing. Because of the vast quantity of concrete and the critical nature of construction, it was determined this task should be NCI's responsibility. This removes a potential conflict of interest. Thirdly, after the contract was awarded, the contractor proposed a digester foundation system alternative. After thorough review, it was determined the original drilled-shaft foundation design would be more difficult to construct and inspect than the proposed over excavation and placement of structural fill. Finally, it was determined during final design that the construction schedule would need to be extended from 15 months to 17 months. This decision increased consultant labor hours and direct expenses from the original contract.

The engineering selection process began in April of 2000 with a request for proposals being advertised in the Great Falls Tribune. Two consultants responded by submitting Proposals to the City Engineering Staff in May 2000. Both engineering firms were granted interviews. The interview committee consisted of a City Commission member, two city staff members, and one out-of-town city superintendent. The Selection Committee rated and compiled the final ranking of the consultants based on the background and interview results. The Selection Committee recommended that negotiations begin with the team of Neil Consultants and Montgomery Watson for the required professional services.

Attachments: Original Contract Amendment #2 (2 each)

AMENDMENT NO. 2

AGREEMENT FOR ENGINEERING SERVICES

CITY OF GREAT FALLS WASTEWATER TREATMENT PLANT SOLIDS HANDLING PROJECT O.F. 1176.1

This AMENDMENT made this _____ day of _____, 2002 by and between the CITY OF GREAT FALLS (OWNER), and NEIL CONSULTANTS, INC. (ENGINEER) shall amend the Agreement for Engineering Services dated the 11th day of July, 2000 between the aforementioned parties, whereby the ENGINEER will perform additional activities not covered by the original contract. Services covered under this amendment pertain to a variety of general tasks including concrete inspection and testing, alternative Digester foundation system design, review, inspection and testing, additional on-site and office engineering construction management services and Bid Document reproduction provided by the ENGINEER to the City of Great Falls.

Amendments to SECTION C and SECTION F of the original AGREEMENT shall be as follows:

SECTION F – ADDITIONAL SERVICES OF ENGINEER

Additional services to be provided under this contract amendment are as follows:

- 1.17 Reproduce Bid Documents including Contract Drawings and Specifications. The ENGINEER will also distribute Bid Document sets to bidders, subcontractors, manufacturers, vendors, plan exchange centers and other interested parties.
- 1.18 Provide on-site concrete testing for digester slab and wall construction and miscellaneous site concrete.
- 1.19 Design, review, inspection and testing for Digester foundation alternative. Tasks include geotechnical design and review of the structural fill foundation plan and field testing of materials.
- 1.20 Additional construction inspection and office engineering services associated with extending the construction contract schedule from 15 months to 17 months.

SECTION C – COMPENSATION FOR ADDITIONAL SERVICES

ADDITIONAL SERVICES

The OWNER shall compensate the ENGINEER for Additional Services (Items 1.17 through 1.20 above) on a basis of hourly rates and expenses with a not to exceed amount of **One-hundred and thirty-nine thousand eight-hundred and nineteen dollars (\$139,819)**. Invoicing will be for personnel hours, reimburseable costs and sub-consultant fees spent as tasks are completed and per **Exhibit A**.

WITNESSETH:

The OWNER hereby employs the ENGINEER to provide such additional services as described herein. The work

included in this AMENDMENT shall comply with requirements of the latest Federal Register. The parties hereto have made and executed this AMENDMENT on the date noted above.

ENGINEER:

Neil Consultants, Inc.

By: _____
Neil Consultants, Inc.
Joseph N. Murphy, Vice-President

DATE: _____

ATTEST: _____

OWNER:

City of Great Falls

By: _____
John Lawton, City Manager

DATE: _____

ATTEST: _____

SEAL:

Approved for legal content: David Gliko
City Attorney

EXHIBIT A
CITY OF GREAT FALLS
SOLIDS HANDLING PROJECT O.F. 1176.1
AMENDMENT No. 2 - CONCRETE TESTING & INSPECTION, CONSTRUCTION EXTENSION
AND ALTERNATIVE FOUNDATION SYSTEM REVIEW/INSPECTION

NEIL CONSULTANTS, INC. - ENGINEERING COST ESTIMATE

TASK 1.17 - BID DOCUMENT REPRODUCTION AND DISTRIBUTION

STAFF	HR. RATE	# HRS	COST
Principal	\$125	0	\$0
Senior Engineer	\$95	0	\$0
Senior Designer	\$65	0	\$0
Secretary	\$40	0	\$0
Construction Inspector	\$65	0	\$0
CAD Operator	\$45	0	\$0
CAD Computer	\$15	0	\$0
TOTAL DIRECT COST			\$0

DIRECT NON-SALARY COSTS

NCI Bid Document Reproduction and Distribution			\$1,800
MWH Bid Document Reproduction			\$4,200
TOTAL NON SALARY COST			\$6,000

TASK 1.17 TOTAL COST **\$6,000**

TASK 1.18 - CONCRETE TESTING AND INSPECTION

STAFF	HR. RATE	# HRS	COST
Principal	\$125	0	\$0
Senior Engineer	\$95	0	\$0
Senior Designer	\$65	0	\$0
Secretary	\$40	0	\$0
Construction Inspector	\$65	0	\$0
CAD Operator	\$45	0	\$0
CAD Computer	\$15	0	\$0
TOTAL DIRECT COST			\$0

DIRECT NON-SALARY COSTS

NTL Testing, Inspection and Reporting			\$33,650
Sub-consultant Administrative Fee			\$1,683
TOTAL NON SALARY COST			\$35,333

TASK 1.18 TOTAL COST **\$35,333**

TASK 1.19 - DIGESTER FOUNDATION ALTERNATIVE DESIGN, REVIEW & INSPECTION			
STAFF	HR. RATE	# HRS	COST
Principal	\$125	4	\$500
Senior Engineer	\$95	16	\$1,520
Senior Designer	\$65	0	\$0
Secretary	\$40	4	\$160
Construction Inspector	\$65	40	\$2,600
CAD Operator	\$45	16	\$720
CAD Computer	\$15	16	\$240
TOTAL DIRECT COST			\$5,740
DIRECT NON-SALARY COSTS			
Nuclear Densometer Structural Fill Density Testing			\$1,200
TOTAL NON SALARY COST			\$1,200
TASK 1.19 TOTAL COST			\$6,940
TASK 1.20 - ADDITIONAL CONSTRUCTION INSPECTION AND ADMINISTRATION			
STAFF	HR. RATE	# HRS	COST
Principal	\$125	16	\$2,000
Senior Engineer	\$95	384	\$36,480
Senior Designer	\$65	20	\$1,300
Secretary	\$40	156	\$6,240
Construction Inspector	\$65	360	\$23,400
CAD Operator	\$45	44	\$1,980
CAD Computer	\$15	44	\$660
TOTAL DIRECT COST			\$72,060
DIRECT NON-SALARY COSTS			
MWH Office Engineering			\$17,879
Sub-consultant Administrative Fee			\$1,107
Other Direct Costs			\$500
TOTAL NON SALARY COST			\$19,486
TASK 1.20 TOTAL COST			\$91,546
TOTAL ESTIMATED COSTS			\$139,819