



621 NW 53rd St., Suite 265
 Boca Raton FL 33487
 Tel:+1(561) 571-3800

Please Remit To:
 CDM Smith Inc.
 PO Box 100902
 Atlanta GA 30384-0902

DRAFT

INDIAN RIVER COUNTY FLORIDA
 HIMANSHU MEHTA, P.E.
 1325 74TH AVENUE S.W.
 VERO BEACH FL 32960

Account Number: 000200418081
 Wire Routing: 011000138
 Invoice Number: 43
 Invoice Date: 08/08/2020
 Project Number: 228608

Amount Due: \$27,689.55

SERVICES FROM June 21, 2020 TO August 8, 2020

In accordance with the agreement for Engineering Consulting Services for Indian River County Landfill ("Agreement"), and Work Order Number 1- Amendment 2, dated July 18, 2017 between Indian River County Solid Waste Disposal District (SWDD), and CDM Smith Inc. ("Consultant"), we are rendering the following invoice for Professional Engineering Services as described below:

| Task | Task Amount | % Complete | Total Invoiced | Previously Invoiced | Amount Due This Period |
|--|-----------------------|------------|-----------------------|-----------------------|------------------------|
| TASK 2 - PROJECT QUA | \$108,970.00 | 100.00% | \$108,970.00 | \$108,970.00 | \$0.00 |
| TASK 7 - GENERAL ENG | \$551,125.00 | 100.00% | \$551,125.00 | \$550,919.98 | \$205.02 |
| TASK 8 - SPECIAL ENG | \$84,580.00 | 118.51% | \$100,235.85 | \$80,989.00 | \$19,246.85 |
| TASK 9.0 RESIDENT SERVICES DURING CONSTRUCTION -TA | \$577,475.00 | 101.32% | \$585,119.15 | \$576,881.47 | \$8,237.68 |
| Total | \$1,322,150.00 | | \$1,345,450.00 | \$1,317,760.45 | |
| AMOUNT DUE THIS PERIOD | | | | | \$27,689.55 |



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PROJECT SUMMARY

| Description | Amount |
|-------------|-------------|
| Total Due | \$27,689.55 |

| Description | Amount |
|-----------------------|----------------|
| Previously Invoiced | \$1,317,760.45 |
| Invoiced ITD | \$1,345,450.00 |
| Total Contract Amount | \$1,322,150.00 |
| Balance Remaining | (\$23,300.00) |
| Percent Complete | 101.76% |

TASK 9.0 RESIDENT SERVICES DURING CONSTRUCTION -TA

| Outside Professionals | |
|---------------------------------------|-------------------|
| SubConsultants | Amount |
| SCHULKE, BITTLE, & STODDARD, LLC. | \$8,237.68 |
| Subtotal Outside Professionals | \$8,237.68 |
| Total Outside Professionals | \$8,237.68 |
| Total | \$8,237.68 |
| Amount Due | \$8,237.68 |

August 7, 2020

18-096-19

CDM Smith Order number: 83052

CDM Smith
c/o Marty Lewis
1701 Highway A1A, Suite 301
Vero Beach, FL 32963

NAU-payables@cdmsmith.com

Re: Invoice for Engineering Services
Professional Inspection Services – Indian River County Landfill

Description of Services: 04/16/20 – 08/07/20

Phase II - Administration

4.0 Contract Administration and Inspections
- See attached daily inspection reports

| | | |
|----------------------|--------------------------------|-------------|
| Inspector: | 106.75 hours x \$ 70.00 / hour | \$ 7,472.50 |
| Inspector (Overtime) | 000.00 hours x \$105.00 / hour | \$ 0.00 |

Total Engineering: \$ 7,472.50

Reimbursable Expenses:

| | | |
|---------|---------------------------|----------|
| Prints: | 1 print x \$2.00 / print | \$ 4.00 |
| Copies: | 82 copies x \$0.15 / copy | \$ 12.30 |

Total Reimbursables: \$ 16.30

Total Due: \$ 7,488.80

Total Contract amount: \$165,540.00

Total of all previous invoices: \$153,658.78

This invoice total: \$ 7,488.80

Contract amount remaining: \$ 4,392.42

Amount: \$ 7,488.80
~~Charge#: 228608 T&M Task 9.01~~
~~WG#: 542546~~
~~P.O.#: 83052~~

Judy Jensen will create the work confirmation

Approval:

Thank you for your business!



1701 Highway A 1 A Suite 301
Vero Beach, Florida 32963
tel: 772 231 4301
fax: 772 231 4332

August 11, 2020

Mr. Himanshu Mehta, P.E.
Managing Director
Solid Waste Disposal District
1325 74th Ave SW
Vero Beach, Florida 32968

Subject: Indian River County Solid Waste Disposal District
Segment 3 Cell 2 Expansion, Segment 2 Partial Closure,
and Landfill Gas System Expansion
IRC Contract No.: 2018025
Final Completion Report

Dear Mr. Mehta:

Transmitted herewith is the project completion report for the above referenced project. This work was completed in accordance with the Continuing Contract Agreement for Professional Services between Indian River County (IRC) Solid Waste Disposal District (SWDD) and CDM Smith Inc. (CDM Smith), dated April 10, 2018 under Amendment 2 to Work Order No. CCNA2017048-WO No. 1 dated July 18, 2017. This project completion report is to serve as additional information to the final invoice.

The SWDD (Owner) requested that CDM Smith provide professional engineering services during construction for the Class I Landfill Segment 3 Cell 2 expansion, Segment 2 Partial Closure, and expansion of the landfill gas (LFG) collection system project. The proposed new cell is Cell 2 of Segment 3 (approximately 10.6 acres in size, Segment 3 Cell 2 is located immediately to the east of the existing Segment 3 Cell 1). Segment 2 Partial Closure (approximately 25 acres in size) includes closure of the Segment 1/Infill vertical expansion area and the final elevations of Segment 2. Expansion of the LFG collection system within Segment 2 was constructed concurrently with the Segment 2 Partial Closure, so that the final components were installed prior to the closure cap being constructed.

The bids from the contractors were opened on March 1, 2018. The bidders are listed in **Table 1**. Thalle Construction was \$1,261,147 less than the next lowest bidder West Construction Inc. Thalle was selected and placed under contract with IRC for the construction project.



Table 1. – Bids Received

| Bidder | Thalle Construction Company | West Construction, Inc | Southeast Environmental Contracting, Inc. |
|-----------------------|-----------------------------|------------------------|---|
| Base Bid | \$14,576,600 | \$15,723,097 | \$16,858,000 |
| Contingency | \$1,457,660 | \$1,572,310 | \$1,685,800 |
| Bid with Contingency | \$16,034,260 | \$17,295,407 | \$18,543,800 |
| Delta from Low Bidder | \$0 | \$1,261,147 | \$2,509,540 |
| Delta as percentage | 0.00% | 7.87% | 15.65% |

SCOPE OF SERVICES

CDM Smith provided engineering services during construction to act as SWDD’s representative during the construction of the project. The Scope of Services included the following tasks:

TASK 2.0 - PROJECT QUALITY MANAGEMENT

Activities performed under this task consisted of those generally administrative functions required to maintain the project on schedule, within budget, and that the quality of the work products defined within this scope is consistent with CDM Smith’s standards, SWDD’s requirements, and the Florida Department of Environmental Protection’s (FDEP) permit requirements.

Subtask 2.4 Construction Quality Management – CDM Smith’s project manager managed the independent review of CDM Smith’s deliverables, monthly project status reviews, and project close-out activities. CDM Smith met with SWDD staff for project planning and coordination, as needed. CDM Smith performed quality technical reviews on the construction phase CDM Smith deliverables such as record drawings and the FDEP Certifications of Construction Completion. The Engineer’s Certification of Final completion was submitted to FDEP on February 10, 2020. FDEP notified SWDD of their acceptance of the construction project on February 13, 2020.

TASK 7.0 - GENERAL ENGINEERING SERVICES DURING CONSTRUCTION

These services included the following subtasks:

Subtask 7.1 After issuance of a Notice of Award by SWDD, CDM Smith prepared for and administered a preconstruction meeting with the Contractor on May 9, 2020, which was the date of the Contractor’s Notice to Proceed.



Mr. Himanshu Mehta, P.E.

August 11, 2020

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- Subtask 7.2** CDM Smith consulted with and advised SWDD and acted as its representative as provided in the General Conditions of the construction contract. CDM Smith consulted with and advise SWDD as to the acceptability of substitute materials and equipment proposed by the Contractor when substitution is permitted by the Contract Documents.
- Subtask 7.3** CDM Smith maintained an on-site presence to observe the progress and quality of the executed work of the Contractor. The work was determined to be in general accordance with the Contract Documents. CDM Smith kept SWDD informed of the progress of the work.
- Subtask 7.4** CDM Smith reviewed and approved shop drawings and samples, the results of laboratory tests and other data, which the contractor is required to submit by the contract documents. There were 60 shop drawing reviews budgeted in WO No. 1. During the project, the actual number of shop drawings reviewed by CDM Smith was 98. CDM Smith inspected deliveries of the materials to confirm compliance with the shop drawings and the project specifications.
- Subtask 7.5** CDM Smith issued instructions to the Contractor and issued necessary interpretations and clarifications of the Contract Documents. CDM Smith responded to requests for information. There were 10 responses budgeted in WO No. 1. During the project, the actual number of responses provided by CDM Smith to the Contractor was 58. CDM Smith acted as SWDD's representative for special inspection or testing of the work and acted as initial interpreter of the requirements of the Contract Documents regarding the execution and progress of the work.
- Subtask 7.6** Based on CDM Smith's on-site observations and on review of applications for payment and the accompanying data and schedules, CDM Smith reviewed and determined the amounts owing to the Contractor and recommend in writing, payments to the Contractor in such for a total of 21 pay applications.
- Subtask 7.7** For each portion of the work (Milestone 1 and Milestone 2), CDM Smith performed an initial walkthrough to develop a preliminary checklist of items to be performed by the Contractor, based upon observations made jointly between the Contractor, SWDD, and CDM Smith. For each portion of the work (Milestone 1 and Milestone 2), CDM Smith performed multiple walkthroughs identifying items that remained to be performed from the initial checklist and to supplement that list as necessary and for the purpose of developing a final punch list. CDM Smith performed the final walkthrough for the lift station on July 31, 2020 in order to close the Utility permit with IRCDUS. Milestone 1 was achieved on August 28, 2019, with SWDD took possession of the new access road which allowed for vehicular traffic to access the top of the landfill. Milestone 2 was



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achieved on January 8, 2020 when the Contractor provided the final test results that could be submitted for the certification of construction completion. Final Completion was achieved on February 20, 2020 when operations in the new cell were allowed after FDEP certification. However, Final Payment was not processed until the Contractor provided the necessary documents to close the Utility permit.

- Subtask 7.8** CDM Smith assisted the SWDD with project related correspondence to SWDD, Contractor, regulatory agencies, and other parties. We prepared monthly progress meeting minutes; and maintained comprehensive project records and documentation on file. CDM Smith maintained document log and documentation on site during the project.
- Subtask 7.9** CDM Smith completed and filed daily reports to document the progress of the work.
- Subtask 7.10** CDM Smith monitored and checked performance tests and reviewed field test reports for conformance with project contract documents. Ninety-two informational submittals were provided by the Contractor and reviewed by the CDM Smith over the duration of the project.
- Subtask 7.11** CDM Smith arranged for monthly progress meetings to be attended by the Contractor, SWDD, and CDM Smith's representatives. The purpose of these meetings was to review the Contractor's work performed, discuss Contractor's schedule and any construction/field problems. Nineteen monthly meetings were held during the course of the project.

TASK 8.0 - SPECIAL ENGINEERING SERVICES DURING CONSTRUCTION (No Change.)

Activities performed under this task consisted of supplementary and special engineering services required during the construction and implementation of the project:

- Subtask 8.1** Prepared for SWDD a set of reproducible record drawings, digital copy in AUTOCAD and two Record Drawing prints showing those significant changes made during the construction process based on information furnished to CDM Smith by the Contractor.
- Subtask 8.2** Provided services in connection with preparing work change directives, change orders to reflect changes to the construction project. Eight total change orders were processed and recommended to the Owner, three were originally planned.
- Subtask 8.3** CDM Smith prepared final certifications of completion of construction to the regulatory agencies. Final certification document closed the FDEP permits for the cell expansion as



Mr. Himanshu Mehta, P.E.
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well as the partial closure cap. CDM Smith provided all documentation required which included detailed drawings of all the liner panel locations, destructive liner test locations and document test weld results, material conformance testing, record drawings, etc. Final certification of completion was performed for the Water Main Extension permit with FDEP on November 22, 2019. FDEP issued the certificate of construction completion for the cell and closure on February 13, 2020

TASK 9.0 - RESIDENT SERVICES DURING CONSTRUCTION

The activities performed under this task consisted of providing a resident project representative (RPR), which was subcontracted to Schulke, Bittle and Stoddard, LLC during the construction and implementation of the project:

- Subtask 9.1** Activities performed under this task consist of furnishing a full-time RPR during the project construction (278 working day period from Notice to Proceed to Final Completion) to observe the performance of the work of the contractor.
- Subtask 9.2** CDM Smith provided a RPR which acted as an agent of CDM Smith. The RPR's dealings in matters regarding the on-site work was in general only with CDM Smith and the Contractor.
- Subtask 9.3** The RPR prepared daily reports, describing the general working conditions, areas of construction activity, tests performed and special and document unusual events.

CDM Smith provided support to the RPR for observation of the work performed by the contractor, direct and supervise the RPR, prepared supporting documentation in dealings with the contractor, and manage the documentation, daily reports, and test reports.

TASK 10.0 - LINER SYSTEM CONSTRUCTION QA/QC

Activities performed under this phase consist of furnishing a full-time quality assurance/quality control (QA/QC) field representative during landfill cell liner/leachate system construction. The cell lining/leachate system required CDM Smith to provide experienced field personnel to perform the documentation and verification necessary to close the FDEP certification of construction completion.

PROJECT SCHEDULE

The project notice to proceed was issued on May 9, 2018. The schedule for Milestone No. 1 was 180 days but was extended for 304 days. The second milestone was for 360 days and final completion was for 390 days, both of which were extended by 262 days each. Milestone 1 was extended due to





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extensive rains that affected the work being performed on the sideslope of the landfill. The duration was also extended to incorporate change order work requested by SWDD. A total of 27 items were modified through change orders. Additional work was added through change orders including paving of the onsite access road, drainage improvements to Segment 2 and Segment 1, and the mitigation of a seepage leak on the north side of Segment 2.

PROJECT BUDGET

The final Contractor's Change Order No. 8 was for \$13,373,904.77 which is \$1,228.09 under budget of \$13,375,132,86. The original contract amount was \$16,034,260 minus the \$2,659,127.14 deduction for the Owner direct purchased items.

CDM Smith's compensation for Amendment No. 2 to Work Order No. 1 for Tasks 2, 7, and 8, is \$744,675. The not-to-exceed amount of this Amendment No. 2, for Tasks 9 and 10, is \$577,475. Amendment 3 to Work Order No. 1 provided \$23,300 for the additional change orders performed in the project. The new not-to-exceed Grand Total Amount of Work Order No. 1 is **\$2,035,949**.

CDM Smith appreciates the opportunity to provide these services to the IRC SWDD. If you have any questions or require additional information on the above project, please contact me.

Sincerely,

Martin J. Lewis, P.E., BCEE, PMP
Project Manager
CDM Smith Inc.

MJL/jj
Attachment
File: PW_PL1_6706-228608.05.04

cc: Ron T. Jones, SWDD
Kevin Vann, CDM Smith
Amy Hightower, CDM Smith

