City of Jacksonville, Florida

Lenny Curry, Mayor

Department of Public Works
Solid Waste Division
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ONE CITY. ONE JACKSONVILLE.

August 3, 2020

TO: Greg Pease, Chief, Procurement Division

THRU: John Pappas, P.E., Director, Department of Public Works

From: Jeffrey S. Foster, P.G, SW Environmental Engineer Manager
Will Williams, Chief, Solid Waste Division
R. Smith for

SUBJECT: CDM Smith, Inc. Amendment #18
Trail Ridge Landfill Expansion Permitting and Design
Contract No. 6354-13, P-07-10
Account No. POETA 001404.PWSW.565031.4.43105-384020
(PWSW44K-069505-SW005-06)

Amendment #18(A) is needed to fund the materials testing and engineering QA/QC oversight required for the construction contractor's (SCS Field Systems) work to install the landfill gas collection system at the Disposal Unit 6 portion of the landfill that is required as part of the solid waste permit. Amendment #18(B) includes activities to modify the US EPA Title V Air Permit as part of the leachate evaporator project that will connect to the landfill gas system installed as part of Amendment 18A.

The Solid Waste Division is requesting approval of Amendment #18 (two parts A and B); 1) the Scope of Work for both parts is contained in Exhibit AM (18A and 18B) and as detailed in the Contract Fee Summary contained in Exhibit AN (18A) in the amount of $178,580.00, and 2) as detailed in the Contract Fee Summary contained in Exhibit AO (18B) in the amount of $15,000.00. The current contract amount for the base contract and Amendments 1 through 17 is $10,882,750.00. Approval of Amendment #18 in the total amount of $193,580.00 will bring the maximum indebtedness to the City's not to exceed amount of $11,076,330.00. Sufficient funding is available in POETA account 001404.PWSW.565031.4.43105-384020. Nothing contained herein shall be amended, modified or otherwise revised without prior PSEC and Mayor's approval.

If there are any questions, please do not hesitate to contact me at this office (904) 381-8205. Please advise when this item will be placed on the agenda so a representative of DPW can attend.

JSF/jsf
Attachments

EXHIBIT AM

AMENDMENT 18 to TASK AUTHORIZATION 6354-13

FOR

TRAIL RIDGE LANDFILL CLASS I CELL EXPANSION PROJECT

PHASE 6 GAS COLLECTION SYSTEM PART 1:
HORIZONTAL WELL INSTALLATION ENGINEERING SERVICES DURING CONSTRUCTION

AND

TITLE V PERMIT MODIFICATION

This Authorization, when executed, shall be incorporated in and become part of the Agreement for Professional Services between the City of Jacksonville (OWNER), and CDM Smith Inc. (CONSULTANT), dated February 9, 2011 hereafter referred to as the Agreement.

PROJECT BACKGROUND

CONSULTANT will assist the OWNER with the design, permitting, and construction of a new Class 1 landfill facility (Phases 6-14) at the Trail Ridge Landfill (TRLF) site. The existing landfill has been developed via 5 stages of cell construction (Phases 1-5) over 20 years and is within 2-3 years of reaching capacity. CONSULTANT has completed the following work related to the TRLF Class I Cell Expansion Project.

Initial Authorization – Developed a Master Plan for the build out of the TRLF site. The Master Plan recommended three phases, Phases 6 through 8 (now numbered 6 through 14), for full site buildout and evaluated various options for the next cell construction, Phase 6 expansion. The initial authorization also initiated field data collection for design of the TRLF Expansion Project.

Amendment 1 – Developed permit application and supporting documentation for the TRLF Expansion Environmental Resource Permit (ERP).

Amendment 2 – Continued data collection and developed permitting plans and specifications for Phase 6A through 6E TRLF Expansion Florida Department of Environmental Protection (FDEP) Solid Waste Permit. Amendment 2 included conceptual stormwater modeling, development of methane gas management plan, geotechnical stability analysis, and ongoing hydro-geological modeling.

Amendment 3 – Authorized investigation of expansion of the on-site borrow pit for use in future landfill activities. This amendment was a partial authorization of the Amendment 3 activities at TRLF. The remaining activities were authorized under Amendment 4.

Amendment 4 – Authorized funding for the remaining work described and approved in Amendment 3, including continued design and permitting activities for Phases 6 through 14 with development of solid waste construction permit application and Phase 6 construction documents. This amendment also included bidding services.

Amendment 5 – this amendment is a continuation of the work begun under the previous four amendments to obtain the ERP and FDEP Solid Waste Construction Permits needed to construct Phases 6-14 of the Trail Ridge Landfill Expansion. This amendment included activities to apply for a major modification of the site's existing Prevention of Significant Deterioration (PSD) permit, renew the site's solid waste operating permit, and design a new access road for operational traffic. CONSULTANT submitted and received the FDEP solid waste construction permit, operations permit, and 2014 financial assurances for the planned expansion area under this amendment.

Amendment 6 – this amendment authorized Engineering Services During Construction to support the TRLF Phase 6 Expansion Project. The amendment included conforming contract documents, holding a pre-construction meeting, conducting shop drawing review, issuing designer clarifications, addressing requests for additional information and providing resident project representation (RPR) for the project. These services were authorized through December 2015.

Amendment 7 – this amendment authorized design and permitting of a limerock construction access road from County Road 228 to Gilridge road. This road will provide access to the landfill and borrow areas for construction vehicles. This amendment also included intersection improvements to the perimeter road encircling Phases 1-5 of the existing landfill to facilitate re-routing of operations traffic to the new western access road. Re-routing of operations traffic is a key component of the construction sequence for the new Phase 6 cell.

Amendment 8 – this amendment authorized engineering services during construction for January 2016 through December 2016. Additionally, this scope includes activities to perform financial assurances reporting to the FDEP associated with the site Solid Waste Permit, and perform various monitoring and maintenance tasks associated with onsite mitigation areas to maintain compliance with the site Environmental Resource Permit (ERP).

Amendment 9 - this amendment authorized engineering services during construction for January 2017 through June 2017. Additionally, this scope includes activities to perform various monitoring and maintenance tasks associated with onsite mitigation areas to maintain compliance with the site Environmental Resource Permit (ERP).

Amendment 10 – this amendment authorizes a seepage analysis study of the borrow pit south of Landfill Phases 1-5 to improve dewatering activities and address erosion concerns.

Amendment 11 - this amendment includes activities to perform investigation and recommendation for pretreatment of the landfill leachate prior to disposal at the Buckman WWTP, due to interference with the WWTP UV disinfection process.

Amendment 12 - this amendment extended geotechnical conformance testing from August 2017 through October 2017.

Amendment 13 – this amendment extended engineering services during construction through June 2018 due to an extension of the construction schedule by the Contractor.

Amendment 14 – this amendment authorized design and permitting of the Phase 6 gas collection system.

Amendment 15 – this amendment authorized the design and permitting of the Phase 7 Cell Expansion and Engineering Services During Construction for closure activities on Phases 1-5.

Amendment 16 – this amendment authorized the preparation of the Title V Operations Permit renewal application and supporting documentation.

Amendment 17 – this amendment authorized the addition of the leachate evaporator to the Phase 6 gas collection system design.

SCOPE OF WORK

This scope of work for Amendment 18 is a continuation of the work begun under the previous five amendments to design and construct the Phase 6 Trail Ridge Landfill Expansion. Additionally, this scope includes activities to provide engineering services during construction for the horizontal gas wells in Phase 6 of the expansion area. This scope also includes activities to modify the Title V Air Operations Permit for the landfill. The following is a description of the services to be provided under this Task Authorization. The non-sequential order of some tasks and subtasks listed below is a result of tasks either being authorized under previous amendments or the work is to be authorized as part of future amendments.

TASK 1 - KICKOFF MEETING

There is no change to Task 1. All work has been completed for this task.

TASK 2 - DATA COLLECTION AND REVIEW

There is no change to Task 2. All work has been completed for this task.

TASK 3 - TRLF EXPANSION LANDFILL CELL ALTERNATIVES DEVELOPMENT

There is no change to Task 3. All work has been completed for this task.

TASK 4 - ANALYSIS OF PHASE 6 CELL ALTERNATIVE LOCATIONS

There is no change to Task 4. All work has been completed for this task.

TASK 5 - INITIATE FIELD SITE INVESTIGATION

There is no change to Task 5. All work has been completed for this task.

TASK 6 - STORMWATER MODELING

There is no change to Task 6.

TASK 7 - PROJECT MANAGEMENT

Task 7 is amended as follows:

CONSULTANT will perform project management duties for the additional tasks described in Amendment 18. CONSULTANT will set up a project status report format, meetings schedule, schedule updates, and other activities required as part of the management of this project.

TASK 8 - WETLAND LONG TERM HYDRATION EVALUATION

There is no change to Task 8.

TASK 9 - FLOOD ELEVATION DETERMINATION

There is no change to Task 9.

TASK 10 - ENVIRONMENTAL RESOURCE PERMITTING

There is no change to Task 10.

TASK 11 - DESIGN AND PERMITTING

Task 11 is amended as follows:

Subtask 11.26 - Title V Operations Permit Modification 2020

Activities performed under this task consist of those functions required to prepare the Title V Air Operation Permit modification application documents for submittal to the FDEP. More specifically this task includes the following:

CONSULTANT will prepare permit modification application files using the Electronic Permit Submission and Processing (EPSAP) application form for Title V permit applications. This submittal will include existing Emission Units 004 through 009 (table below). CONSULTANT will work with the OWNER and Landfill Operator to identify and include in the application updated information on formaldehyde emissions associated with these emission units.

EU No.	Brief Description
004	Internal Combustion Engine (#1)
005	Internal Combustion Engine (#2)
006	Internal Combustion Engine (#3)
007	Internal Combustion Engine (#4)
008	Internal Combustion Engine (#5)
009	Internal Combustion Engine (#6)

CONSULTANT will prepare the EPSAP Title V long form (FDEP Form 62-210.900(1)) and appendix material and prepare an electronic portable document format (PDF) file for OWNER review. After receiving comments from the OWNER, CONSULTANT will finalize the electronic application form and appendices and submit the application via FDEP's EPSAP system. CONSULTANT's professional engineer (PE) will review and authenticate the electronic submittal and provide a physical PE Signature Document to FDEP. The OWNER's Authorized Representative will be required to log into FDEP's EPSAP system and

electronically "sign" the application for the submittal process to be complete. An electronic signed and sealed PDF of all the final application documents will be provided to the OWNER.

CONSULTANT will respond to up to two Requests for Additional Information (RAI) prepared by FDEP as well as any comments on the application made during the public comment period. Once a draft Title V Operation Permit is issued, CONSULTANT will review it in detail, and discuss with OWNER any comments or recommended changes to the permit conditions. CONSULTANT will, on behalf of OWNER, submit comments on the Draft Title V Permit, and, if necessary, negotiate the permit conditions with FDEP.

TASK 12 - SOLID WASTE LANDFILL CONSTRUCTION PERMITTING

There is no change to Task 12.

TASK 13 - QUALITY ASSURANCE AND QUALITY CONTROL

There is no change to Task 13.

TASK 14 - ECONOMIC EVALUATION

There is no change to Task 14.

TASK 15 - PUBLIC INFORMATION PROGRAM ASSISTANCE

There is no change to Task 15.

TASK 16 - BIDDING SERVICES

Task 16 is amended to include the following tasks under Amendment 18:

Subtask 16.4 - Conformed Documents for Phase 6 Horizontal Collection Wells

CONSULTANT will conform the drawings and specifications, incorporating addenda issued during the bidding process. The conformed drawings and specifications will become part of the contract documents and will be used throughout the construction of the project as the basis for determining conformance with project design. Five (5) hard copies, signed and sealed by the engineer(s) of record will be provided to the OWNER, one (1) electronic copy will be provided to the OWNER, and two (2) AutoCAD format files will be provided to the OWNER and the CONTRACTOR that is awarded the project.

TASK 17 - GENERAL ENGINEERING SERVICES DURING CONSTRUCTION

Task 17 is amended to include the following tasks under Amendment 18:

Subtask 17.18 – Engineering Services During Construction for Phase 6 Horizontal Collection Wells

CONSULTANT will provide general services during construction associated with the installation of the horizontal gas collection wells associated with Phase 6 of the Trail Ridge Landfill.

Subtask 17.18.1 - Pre-Construction Conference

A Pre-Construction Conference will be held at the beginning of the construction. CONSULTANT will schedule the meetings, make physical arrangements for meetings, develop agenda, and distribute the agenda prior to meeting. CONSULTANT will provide appropriate team members to attend the meeting, prepare and distribute notes from the meeting.

Deliverable: Pre-Construction Meeting Notes

Subtask 17.18.2 - Monthly Progress Meetings

Monthly progress meetings will be held throughout the construction project. CONSULTANT shall schedule meetings, make physical arrangements for meetings, prepare and distribute the agenda, preside over the meeting, and prepare and distribute notes of the meetings. It is anticipated that up to five monthly meetings will be held. CONSULTANT shall provide appropriate team members to attend the meeting. Discipline engineers will only be present at monthly meetings when needed as construction progresses. For budgeting purposes, only meetings associated with installation of the Ph6 horizontal gas wells are authorized at this time. A separate amendment will be submitted for progress meetings for subsequent gas collection system work.

Deliverable: Monthly Progress Meeting Agenda an summary of major decisions

Subtask 17.18.3 - Review Shop Drawings, Samples, and Other Submittals

CONSULTANT will review and approve (or take appropriate action in respect of) sequence of work, stockpile plan, shop drawings, samples, operation and maintenance (O&M) manuals, schedule of values, payment application format and other data (in accordance with Specifications) which CONTRACTOR is required to submit, but only for conformance with the information given in the contract documents and compatibility with the design concept of the completed project as a functioning whole as indicated in the Contract Documents. Such reviews and approvals or other action will not extend to means, methods, techniques, or procedures of construction or to safety precautions and programs incident thereto. CONSULTANT will review up to 25 original submittals and one resubmittal for each original submittal by the CONTRACTOR. Additional subsequent review by CONSULTANT of resubmittals is eligible for additional compensation. Review of Independent Testing Lab Results is covered separately in Subtask 17.18.4.

Subtask 17.18.4 - Review of Independent Testing Lab Results

CONSULTANT will contract with a geotechnical and materials testing laboratory to conduct independent testing of CONTRACTOR's work. CONTRACTOR shall contact the testing laboratory to conduct the testing as needed throughout construction progress. CONSULTANT shall witness all testing through the use of the Resident Project Representative (RPR). No additional time has been budgeted in this subtask for either the RPR or other CONSULTANT staff to witness the testing. CONSULTANT reserves the right to request additional compensation, should the CONTRACTOR complete the testing outside the standard 40-hour work week for the RPR.

CONSULTANT is responsible for all testing costs, including analysis and shipping (if needed). CONSULTANT to review for conformance with Contract Documents and will be carried out on a not-to-exceed basis.

CONSULTANT will review field test reports for conformance with project contract documents. Should CONTRACTOR fail to pass the independent test and retesting is required, the CONSULTANT is eligible for additional compensation to review retest results. For budgeting purposes, only field staff for testing associated with work in Sequence 1 is authorized at this time. A separate amendment will be submitted for field staff time associated with testing for subsequent sequences.

Subtask 17.18.5 - Evaluation of Substitutes

CONSULTANT shall evaluate and determine the acceptability of substitutes and "or-equal" materials and equipment proposed by CONTRACTOR. Revisions to Drawings and Specifications as a result of acceptance of substitute materials or equipment (other than "or-equal" items) or evaluation of an excessive number of substitutes will only be performed pursuant to an amendment to this Agreement for additional compensation. The CONSULTANT shall notify the OWNER of the CONTRACTOR's intent for any material substitutions prior to CONSULTANTS review.

Subtask 17.18.6 - Site Visits and Observation of Construction Progress

CONSULTANT will make up to 6 visits to the site at intervals appropriate to the various stages of construction to observe the progress and quality of the executed work of the Contractor and to determine in general if such work is proceeding in accordance with the Contract Documents. During such visits and on the basis of on-site observations, CONSULTANT shall keep OWNER informed of the progress of the work and shall endeavor to determine in general if such work is proceeding in accordance with the Contract Documents. Additionally, during such visits and on the basis of such observations, CONSULTANT shall disapprove or reject Contractor's work while it is in progress if CONSULTANT believes that such work will not produce a completed Project that conforms generally to the Contract Documents or that it will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated in the Contract Documents. CONSULTANT shall document the site visits with an e-mail to the CONSULTANT and OWNER's Project Managers summarizing the observations, discussions, and/or decisions.

In addition to the above-detailed site visits, CONSULTANT shall provide the services of an RPR at the site to assist CONSULTANT and to provide more continuous observations of such work. These services are detailed in Task 19.0. For budgeting purposes, only site visits planned in association with Phase 6 horizontal well installation are authorized at this time. A separate amendment will be submitted for site visits for subsequent phases of the landfill gas collection system.

Subtask 17.18.7 - Clarifications, Interpretations, and Field Orders

CONSULTANT shall issue necessary clarifications and interpretations on technical matters of the Contract Documents as appropriate to the orderly completion of the work. Such clarifications and interpretations will be consistent with the intent of and reasonably inferable from the Contract Documents. CONSULTANT may issue Field Orders authorizing minor variations from the requirements of the Contract Documents. CONSULTANT will provide up to twenty (20) clarifications. For budgeting purposes, only clarifications associated with Phase 6 horizontal well installation are authorized at this time. A separate amendment will be submitted for site visits for subsequent phases of the landfill gas collection system.

Subtask 17.18.8 - Change Orders

CONSULTANT will provide services in connection with preparing change orders to reflect changes to the construction project. This includes the review of change order proposals, development and issuance of Work Change Directives, and development and issuance of Change Orders for execution by OWNER. In addition, CONSULTANT shall maintain lists of all potential change order items for the project. For budgeting purposes, it is assumed that up to one (1) change order will be developed incorporating up to ten (10) total work change directives.

Subtask 17.18.9 - Review of Applications for Payment

Based on CONSULTANT's on-site observations as an experienced and qualified design professional and on review of Applications for Payment and the accompanying data and schedules, CONSULTANT will prepare and submit to OWNER a recommendation for payment using the OWNER's standard forms for pay application requests. Approval of invoices will be by OWNER. For budgeting purposes, it is assumed that seven (7) total Applications for Payment will be processed.

Subtask 17.18.10 - Substantial Completion

Upon notification that the project is ready for its intended use, CONSULTANT and OWNER will conduct an inspection to determine if the project is substantially complete. CONSULTANT will develop a punch list of items related to the project and provide it to the Contractor.

This task includes two site visits for substantial completion, one to develop punch list and one to confirm punch list items have been completed prior to issuing substantial completion. Any additional site visits to confirm punch list items will require an amendment.

Subtask 17.18.11 - Final Inspection

Not budgeted at this time.

Subtask 17.18.12 - Review of Contractor's Completion Documents

Not budgeted at this time.

Subtask 17.18.13 - Preparation of Record Drawings

Not budgeted at this time.

Subtask 17.18.14 - Preparation and Submittal of Final Certification Report

Not budgeted at this time.

Subtask 17.18.15 - Submittal of Complete Project Documents to Owner

Not budgeted at this time.

Subtask 17.18.16 - General Administration of Construction Contract

CONSULTANT shall consult with and advise OWNER and act as OWNER's representative as provided in the Standard General Conditions. The extent and limitations of the duties, responsibilities, and authority of CONSULTANT as assigned in said Standard General Conditions shall not be modified. All of OWNER's instructions to Contractor will be issued through CONSULTANT, who shall have authority to act on behalf of OWNER in dealings with CONTRACTOR to the extent provided in this Agreement and said Standard General Conditions. Under this task, CONSULTANT may issue communications to the CONTRACTOR addressing clarifications and/or interpretations pertaining to administrative matters covered in the Standard General Conditions, addressing correction or acceptance of defective work, monitoring compliance with contract requirements for notification and coordination with OWNER's operations and other contractors, etc. For budgeting purposes, only activities associated with the Ph6 horizontal gas collection wells are authorized at this time. A separate amendment will be submitted for general administration activities associated with other portions of the gas collection system.

TASK 18 - SPECIAL SERVICES

There is no change to Task 18.

TASK 19 - RESIDENT PROJECT REPRESENTATIVE SERVICES DURING CONSTRUCTION

Task 19 is amended to include the following tasks under Amendment 18:

Subtask 19.2 - Resident Project Representative Services During Construction for Phase 6 Gas Collection Wells

CONSULTANT will provide part-time RPR services during the active project construction period to observe the performance of the Contractor's work.

Assuming it is a 14 week project, the level of work estimated is 240 labor-hours of RPR time (14 weeks * 16 hours/week). CONSULTANT reserves the right to request additional compensation, should construction extend beyond the hours budgeted in this proposal.

CONSULTANT's RPR will act as directed by and under the supervision of CONSULTANT, and will confer with CONSULTANT regarding his/her actions. The RPR's dealings in matters regarding the on-site work shall in general be only with CONSULTANT and the CONTRACTOR, and dealings with subcontractors shall only be through or with the full knowledge of the CONTRACTOR. Written communication with OWNER will be only through or as directed by CONSULTANT.

CONSULTANT's RPR will prepare daily reports, describing the general working conditions, areas of construction activity, types of construction activities, tests performed and special and unusual events. Daily reports will be provided to OWNER. The RPR will be responsible for implementation of the CQA Manual and coordination of the Quality Assurance Laboratory. The RPR will also be responsible for providing input and documentation to the EOR for preparing a final sealed certification report that will be submitted to the appropriate permitting agency. The RPR shall record all field activities on the appropriate forms.

TASK 20 - NEW CELL GEOSYNTHETIC INSTALLATION QA/QC CONSTRUCTION SERVICES

There is no change to Task 20.

TASK 21 - BORROW PIT EVALUATION AND EXPANSION

There is no change to Task 21.

TASK 22 - MEETINGS, PROJECT MANAGEMENT AND QUALITY CONTROL

Activities performed under this task consist of those general 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 CONSULTANT's standards and OWNER's expectations. Specific activities included are identified below:

Subtask 22.1- Project Kick-Off and Progress Meetings

CONSULTANT will prepare for and conduct the following project meetings as previously outlined in the tasks above.

Subtask 22.2- Project Quality Control (QC) Technical Review

No change to task 22.2 as part of this amendment.

Subtask 22.3- Project Status Reports

CONSULTANT's project manager will prepare and submit monthly written status reports for an anticipated project life of seven (7) months to accompany monthly invoices.

ASSUMPTIONS

The following assumptions are included in this Task Authorization.

1. OWNER shall be responsible for all permit or review fees associated with project.
2. OWNER shall attend the pre-construction conference, construction progress and other job-related meetings and Substantial Completion and final payment inspections.
3. OWNER shall bear all costs incident to compliance with the requirements of the OWNER's Responsibilities.
4. For budgeting purposes, only meetings associated with installation of the Ph6 horizontal gas wells are authorized at this time. A separate amendment will be submitted for progress meetings for subsequent gas collection system work.
5. All work described in this amendment is for Ph6 horizontal gas well installation. Engineering Services During Construction for subsequent construction activities will be included in future amendments.
6. For budgeting purposes, only site visits planned in association with Phase 6 horizontal well installation are authorized at this time. A separate amendment will be submitted for site visits for subsequent phases of the landfill gas collection system.
7. It is assumed that up to one (1) change order will be developed incorporating up to ten (10) total work change directives.
8. For budgeting purposes, it is assumed that 25 submittals will be processed.
9. For budgeting purposes, it is assumed that 20 clarifications will be issued.
10. For budgeting purposes, it is assumed that 7 total Applications for Payment will be processed.
11. Additional compensation will be requested should construction extend beyond the 240 hours budgeted in this proposal.
12. This scope of services does not include review, negotiation, or other support related to a Notice of Violation. This support could be provided by the CONSULTANT for an additional fee.
13. This scope of services is limited to a single air construction/Title V revision (AC/AV) application to request either an increase or to remove the formaldehyde emission limit for EUs 004 – 009. If

FDEP requires a two-step process and a second application is required, the CONSULTANT could provide this for an additional fee.

14. The engine vendor will provide assurance that the engines will comply with the proposed increased formaldehyde emission rate limit, if FDEP requires an increased limit.

15. The FDEP will not require a Maximum Achievable Control Technology (MACT) evaluation of formaldehyde emission controls for the engines.

DELIVERABLES

The following deliverables will be provided:

Task	Description of Deliverable	Quantity/Format
Development of Conformed Documents	Conformed Documents	- Five (5) sets of full-sized drawings and specifications (signed-and-sealed original) - One (1) set of half-sized drawings - Five (5) CDs with PDFs of all drawings and specifications - One (1) Electronic format - Two (2) AutoCAD format
Clarifications and Interpretations; Field Orders	Up to twenty (20) clarifications	- Electronic format
Change Orders	Up to one (1) change order and up to ten (10) total work change directives	- Electronic format
Review of Applications for Payment	Cover letter and 7 Applications for Payment	- Three (3) Hard Copies
Substantial Completion	Letter and punch list for interim and overall substantial completion	- Electronic format
Resident Project Representative (RPR) Services	Daily reports describing construction activities to be submitted to the OWNER on a weekly basis	- Electronic format
Permit Closeout	Closeout form and supporting documentation	- Electronic format
Project and Quality Management	Monthly status reports	- Electronic format

TIME OF COMPLETION/SCHEDULE

It is anticipated that Phase 6 services during construction will take 7 months to complete, starting within two weeks of receipt of a formal notice to proceed (NTP). Engineering Services During Construction will

be provided based on the CONTRACTOR's approved construction schedule. CONSULTANT will prepare an updated detailed schedule within the 30 calendar days after NTP. All authorized work will take place by December 30, 2021.

The Title V application package is due to FDEP by August 30, 2020.

COMPENSATION AND PAYMENT

CONSULTANT will complete the services in the Tasks listed above in this Amendment No. 18 for a lump sum fee of $193,580 as shown in Exhibits AN and AO. CONSULTANT will invoice monthly as a percentage of the lump sum based on the percentage of work completed during the billing period. Lump sum compensation shall be for all labor, sub-consultants, and other direct costs associated with the performance of the work. The new total amended value for this Task Authorization is $11,076,330.

EXHIBIT AN

CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION

CITY OF JACKSONVILLE, FLORIDA

CLASS I LANDFILL PERMITTING AND DESIGN - AMENDMENT 18

7/27/2020

PART I - GENERAL

1. Project	**Proposal Number**
CLASS I LANDFILL PERMITTING AND DESIGN AMENDMENT 18A Ph6 Horizontal Gas Collection Wells ESDC	RFP #P-07-10
3. Name of Consultant	**Date of Proposal**
CDM Smith Inc.	7/27/2020

PART II - LABOR RELATED COSTS

5. Direct Labor	Hourly Rate	Estimated Hours		TOTAL
Officer/Technical Expert	74.32	0		$ -
Principal / Associate / Project Manager	63.06	198		$ 12,485.88
Senior Profesional	50.11	579		$ 29,013.69
Project Engineer II / GIS Speicalist III	41.10	0		$ -
Project Engineer I / GIS Specialist II	34.34	338		$ 11,606.92
Sr. GIS Specialist/Designer	40.54	45		$ 1,824.30
GIS Specialist I /Drafter/Technician	29.28	0		$ -
Clerical	20.83	44		$ 916.52
Field Staff Support Services	28.15	0		$ -
TOTAL DIRECT LABOR				$ 55,847
6. Overhead (Combined Fringe Benefit & Administrative)				
Overhead Rate	150.0%	x Total Direct Labor		$ 83,771
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 139,618
8. PROFIT: Labor Related Costs (Item 7)		x	10%	$ 13,962

PART III - OTHER COSTS

9. Miscellaneous Direct Costs	
Transportation, Per Diem and Equipment	
Presentation Boards	
Reproduction	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL	$ -
10. SUBCONTRACTS (Lump Sum)	
Meskel and Associates	$ 25,000
SUB-CONTRACT SUB-TOTAL	$ 25,000
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)	$ 178,580
11. REIMBURSABLE COSTS (Limiting Amount)	
SUB-TOTAL REIMBURSABLES	$ -

PART IV - SUMMARY

TOTAL AMOUNT OF AM 18A CONTRACT (Lump Sum Plus Reimbursables)	$ 178,580
12. PRIOR CONTRACT AMOUNT (Through Amendment 17)	$ 10,882,750
AMENDED AMOUNT OF CONTRACT	$ 11,061,330

EXHIBIT AO

CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION

CITY OF JACKSONVILLE, FLORIDA

CLASS I LANDFILL PERMITTING AND DESIGN - AMENDMENT 18

7/27/2020

PART I - GENERAL				
1. Project			**Proposal Number**	
CLASS I LANDFILL PERMITTING AND DESIGN AMENDMENT #18B Title V Permit Modification			RFP #P-07-10	
3. Name of Consultant			**Date of Proposal**	
CDM Smith Inc.			7/27/2020	
PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours		TOTAL
Officer/Technical Expert	74.32	2.5		$ 185.80
Principal / Associate / Project Manager	63.06	16		$ 1,008.96
Senior Profesional	50.11	12		$ 601.32
Project Engineer II / GIS Specialist III	41.10	32		$ 1,315.20
Project Engineer I / GIS Specialist II	34.34	60		$ 2,060.40
Sr. GIS Specialist/Designer	40.54	0		$ -
GIS Specialist I /Drafter/Technician	29.28	0		$ -
Clerical	20.83	10		$ 208.30
Field Staff Support Services	28.15	0		$ -
TOTAL DIRECT LABOR				$ 5,379.98
6. Overhead (Combined Fringe Benefit & Administrative)				
Overhead Rate	150.0%	x Total Direct Labor		$ 8,069.97
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 13,449.95
8. PROFIT: Labor Related Costs (Item 7)		x	10%	$ 1,345.00
PART III - OTHER COSTS				
9. Miscellaneous Direct Costs				
Transportation, Per Diem and Equipment				
Presentation Boards				
Reproduction				
MISCELLANEOUS DIRECT COSTS SUB-TOTAL				$ 205.05
10. SUBCONTRACTS (Lump Sum)				
SUB-CONTRACT SUB-TOTAL				$ -
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)				$ 15,000.00
11. REIMBURSABLE COSTS (Limiting Amount)				
SUB-TOTAL REIMBURSABLES				$ -
PART IV - SUMMARY				
TOTAL AMOUNT OF AM 15B CONTRACT (Lump Sum Plus Reimbursables)				$ 15,000
12. PRIOR CONTRACT AMOUNT (Through Amendment 18)				$ 11,061,330
AMENDED AMOUNT OF CONTRACT				$ 11,076,330