

TASK ORDER NO. 10038.d

Pursuant to the

MASTER AGREEMENT FOR PROFESSIONAL SERVICES BETWEEN

CITY OF MERIDIAN (OWNER) AND CONSOR NORTH AMERICA, INC. (ENGINEER)

This Task Order is made this 21st day of February, 2023 and entered into by and between the City of Meridian, a municipal corporation organized under the laws of the State of Idaho, hereinafter referred to as “Owner”, and accepted by Conсор North America, inc. hereinafter referred to as “Engineer” pursuant to the mutual promises, covenant and conditions contained in the Master Agreement (Category 2b) between the above-mentioned parties dated October 1, 2021. The Project Name for this Task Order is as follows:

CAN ADA LIFT STATION & GRAVITY LINE – FINAL DESIGN

BACKGROUND

The CITY’s 2017 Collection System Master Plan (CSMP) identified the Can Ada Lift Station (LS) as a future regional lift station required to serve the full build out of the master plan study area. The LS will be located southeast of the intersection of N Can Ada Rd and W McMillan Rd. The City obtained an approximately 1.59-acre site for the LS in 2022. The site area was used for initial property negotiations and will be reduced depending on the final LS design. ENGINEER developed a concept design for the LS and associated force main and gravity piping under a separate Task Order. The concept design included:

- Survey
- Geotechnical Investigation
- Coordination with CSMP for project design flows and recommended gravity line extents and design slope
- Analysis of parallel force main options (size and alignment)
- Analysis of odor control options
- Preliminary lift station mechanical and civil site layout
- Concept level costs
- Coordination with ACHD and utilities

PROJECT UNDERSTANDING

Final design will be based on the recommendations of the concept design and includes:

- A triplex submersible lift station with the following:
 - 2,275 gpm buildout design capacity
 - Vaughan submersible chopper pumps
 - Wetwell approximately 30-feet deep
 - Discharge piping and valving located in vaults
 - Above grade electrical and control panels with shade structure (type and size to be determined)
 - Emergency generator
 - Liquid and vapor phase odor control
 - Stormwater facilities
- Gravity Line:
 - 5,500 lineal feet (LF)
 - 18- to 21-inch
 - 20- to 30-foot depth
- Force Main:
 - 11,400 LF of 10- and 18-inch dual force main
 - Discharge at the Oaks LS, located approximately 700-feet south of the intersection of McMillan Rd and McDermott Rd.
- Construction requiring dewatering throughout the construction area and full rebuild of the impacted roads along the proposed pipeline alignment.

SCOPE OF WORK

This Final Design SOW includes the following tasks:

1. Project Management
2. Data Collection
3. Odor Control Alternatives Analysis
4. Final Design
5. Permitting
6. Public Involvement

Task 1 –Project Management

The purpose of this task is to manage the project team, schedule, and budget. This includes monthly invoicing (invoices will include progress in terms of project percent complete), budget (percent spent and budget remaining) and schedule review, updates, and general administrative tasks. This task also includes bi-weekly check-in meetings with the CITY PM.

Monthly invoices will include updates on project schedule and budget.

Assumptions:

1. Assumes a notice to proceed date of January 30, 2023 and a 11-month project duration.
2. No Consor travel time will be charged.

Task 1 Deliverables:

1. Monthly project updates (submitted with invoice) that summarize each month's budget, schedule, and work accomplished.

Task 2 – Data Collection

ENGINEER will perform the following tasks as part of a data collection effort prior to development of design plans and specifications.

Task 2.1 - Data Collection

In this task, ENGINEER will review background information provided by the CITY and may develop a formal data request for any additional information required for completion of the work. It is anticipated that additional data requests will be made throughout the project, however the majority of the data required will be requested at the beginning of the project. ENGINEER will limit the number of data requests that are made to minimize the required CITY staff time.

Task 2.2 – Infiltration Testing

ENGINEER will work with Atlas to provide an infiltration test and recommended infiltration for the site stormwater facility.

Task 2 Assumptions:

ENGINEER will perform a data analysis effort that includes the following tasks:

1. ENGINEER and the OWNER will identify and collect required data in a timely manner so as to not impact the project schedule.
2. Task Order assumes that there are no permits required for any of the proposed investigation services other than those assumed by the sub consultants.

Task 2 Deliverables:

1. Geotechnical report of findings and recommendations (electronic copy)

Task 3 – Odor Control Alternatives Analysis

ENGINEER will build on the odor control alternatives presented at the concept design workshop (performed under a separate task order) and develop a detailed odor control alternatives analysis. The intent of this analysis is to provide enough information for the CITY to select a preferred approach for liquid phase odor control. The alternatives analysis will include:

1. ENGINEER will evaluate three alternatives for liquid phase odor control treatment of the Can Ada lift station: calcium nitrate injection (i.e., Bioxide); sulfur precipitation (i.e., ferric chloride); and oxidation (i.e., sodium hypochlorite).
2. ENGINEER will define evaluation criteria for each alternative including but not limited to:
 - a. Treatment Considerations (i.e., safety hazards, dosing volumes, etc.)
 - b. Supply Availability and Location
 - c. Cost
 - d. O&M Considerations
 - e. Downstream Impacts/WWTP Impacts
3. ENGINEER will evaluate each alternative using weighted scoring for each evaluation criteria. The highest scored alternative will be recommended to the CITY.

ENGINEER will present the results of the alternative analysis at a meeting with the CITY. The alternatives analysis will be summarized in the Preliminary Engineering Report (see Task 4).

Task 3 Assumptions

1. ENGINEER to develop design for liquid phase odor control treatment equipment including storage tank, metering pump and mechanical appurtenances, and supporting equipment.
2. Odor control equipment will be installed outdoors and will include weatherproofing. Building enclosure not included.

Task 3 Deliverables

1. Meeting notes from the alternative analysis review meeting.

Task 4 – Final Design

ENGINEER will develop 30% Preliminary Engineering Report (PER), 60%, 95% and 100% designs for the work based on the discussion at the Concept Design review meeting (see Task 3). ENGINEER will then develop a construction package for the improvements.

Task 4.1 - 30% Design/Utility Permit Set

ENGINEER will develop 30% design package based on comments from the concept design. 30% design will include the following:

- General and notes sheets
- Plan and Profile Sheets for roadway, gravity and force main
- Dewatering plan
- Civil site plan
- Mechanical plans
- Electrical one line diagram
- P&ID
- Notes and details specific to utility crossings
- Opinion of probable cost for work
- Preliminary Engineering Report (PER) meeting Idaho Department of Environmental Quality (IDEQ) requirements.
- Reassessment of design schedule

The 30% package will be submitted to the CITY for review. ENGINEER will meet with the CITY and review any comments on the 30% design. ENGINEER will revise the 30% design

package per CITY comments, and ENGINEER will submit the revised 30% package to the reviewing agencies (see Task 5) for review.

Task 4.2 - 60% Design

ENGINEER will develop the 60% design package based on comments from the 30% design review. 60% design will include the following:

- General and notes sheets
- Plan and profile sheets for gravity and force main
- Civil site plan
- Mechanical plans
- Electrical plans
- I&C plans
- Notes and Details specific to the project (standard details are not required).
- Surface Water Pollution Prevention (SWPP) plan as required by Idaho Department of Environmental Quality (IDEQ), ACHD and Ada County. (The plan will be reviewed by the CITY Environmental Division)
- ACHD Variance Request (if required)
- Traffic Control Plan (see assumptions)
- Bid Schedule
- Opinion of probable cost for work
- Reassessment of design schedule

The 60% design plans and specifications will be submitted to the CITY for review and comment by the Development Services and Environmental Divisions. ENGINEER will attend a meeting with the CITY to review the 60% design package and perform a site walk through.

ENGINEER will fill out any final forms for the various permits required for the irrigation and gas crossings and shall submit the final permits, plans, details, figures to the various entities for approval.

Task 4.3 - 95% Design Package

ENGINEER will develop a 95% design package based on the comments on the Concept Design and 60% Design. The 95% design package will include the following final documents:

- General and notes sheets
- Plan and profile sheets for gravity and force main
- Civil site plan
- Mechanical plans
- Electrical plans
- I&C plans
- Surface Water Pollution Prevention (SWPP) as required by the CITY, IDEQ, ACHD and Ada County.
- Traffic Control Plan (see assumptions).
- Notes and Details specific to the project, standard details are not required
- Technical Specifications
- Bid Schedule with quantities
- Opinion of Probable Cost

The 95% plans are assumed to be "bid ready" and are only missing minor CITY, IDEQ, ACHD, and Ada County comments and approvals. The 95% design plans and specifications will be submitted to the CITY for review and comment by the Development Services and Environmental Divisions. ENGINEER may attend a meeting with the CITY to review comments from the 95% design package, if needed.

Task 4.4 – Permit Package

ENGINEER will finalize the permit package based on the comments on the 95% plans from the CITY. The permit package will be stamped and include the following documents:

- General and notes sheets
- Plan and Profile Sheets for gravity and force main
- Civil site plan
- Mechanical plans
- Electrical plans

- I&C plans
- Surface Water Pollution Prevention (SWPP) as required by CITY, IDEQ and ACHD.
- Traffic Control Plan as required by ACHD
- Notes and Details specific to the project, standard details are not required
- Technical Specification Package
- Bid Schedule
- Opinion of Probable Cost

The permit package will be submitted to ACHD and DEQ for final review (see Task 5). ENGINEER will compile and deliver the final approved set and inclusion in the bid package.

Task 4.5 – 100% Package

ENGINEER will finalize the 100% package based on comments from DEQ and ACHD on the permit plans. The 100% package will be stamped and include the following FINAL documents:

- General and notes sheets
- Plan and Profile Sheets for gravity and force main
- Civil site plan
- Mechanical plans
- Electrical plans
- I&C plans
- Surface Water Pollution Prevention (SWPP) as required by CITY, IDEQ and ACHD.
- Traffic Control Plan as required by ACHD
- Notes and Details specific to the project, standard details are not required
- Technical Specification Package
- Bid Schedule
- Opinion of Probable Cost

The 100% package will be submitted to the CITY and ACHD for final approval. ENGINEER will compile and deliver the final approved set and inclusion in the bid package.

Task 4 Assumptions:

1. ENGINEER will develop separate bid packages (two total) for the lift station and the pipelines.

2. Final design will be done in parallel with the agency reviews of the 30% design package.
3. Schedule assumes that sizing of major equipment (e.g., pumps, odor control, generator) and related electrical and instrumentation/control design will be done ahead of the overall project schedule. The goal will be to complete the 95% design for these elements in the early Spring of 2023. This is required to meet current workload for DC, Consor's electrical and I&C sub-consultant.
4. The entire project will be designed with plan and profiles for traditional open trench construction with the exception of the canal and gas crossings. Trenchless methods may be required for these crossings.
5. Variance requests for "out of corridor work" will be submitted to ACHD and any other utilities affected. Approval letters from those utilities will be submitted to the CITY prior to commencing the 100% design plans.
6. Full street pavement replacement will be required by ACHD, and all pavement restoration design will be included on the water plan and profile sheets.
7. Traffic control plan will be a guideline used for Contractor to have a basis of bid. The Contractor will be responsible for developing a detailed traffic control plan for ACHD review and approval.
8. Gas and irrigation crossing permits are covered under Task 5.
9. Odor control will not be required at Oaks LS.
10. Buildings for lift station facilities were not requested by the CITY in the concept design and are not included in this SOW. The SOW does include a shade structure for the electrical and control panels.
11. ENGINEER will prepare the Technical Specifications to The Idaho Standards for Public Works Construction (ISPWC). CITY supplements and Addenda will be used as the basis of the Technical Specifications and they will be in the ISPWC formatting. ISPWC specifications will be referenced and not reproduced in the specification package. Supplemental technical specifications will be developed as required. (Specifications will state specifically what points shall be staked with a reference that the contractor will pay for additional staking or re-staking)
12. Plans will be full size and reduced to provide half size (11-inch x 17 inch).
13. Stormwater design associated with pavement replacement along Can Ada, McMillian and McDermott are excluded from this scope of work.

Task 4 Deliverables:

1. 30% in PDF format (to be placed on the CITY FTP site) design package (plans and PER).
2. 60% in PDF format (to be placed on the CITY FTP site) design package (plans and technical specifications).

3. PDF of the 95% design package (plans and technical specifications).
4. PDF and hard copies (up to 3 for each agency) for agency submittal.
5. One reproducible copy of the FINAL 100% design package in PDF format to be placed on the CITY FTP site.
6. One full size and one half size bound hard copies of the 100% plans.

Task 5 – Permitting

This task is for permitting and coordination with IDEQ, Ada County, Pioneer Irrigation District (PID), and William-Northwest Pipeline gas company (Williams-Northwest). ENGINEER will develop plans, details, and figures and complete applications for the following permits (if required) for this project:

- IDEQ Design Review (PER and Permit plans)
- Ada County Conditional Use Permit for Can Ada
- Encroachment Permit for Phyllis Canal crossing
- Williams Northwest Encroachment/Foreign Line Crossing Permit Form for gas main crossing.

Task 5 Assumptions:

1. The CITY will pay all permit and other reimbursement agreement fees.
2. The 30% plan will be submitted as the permit set to ACHD, PID, and Williams-Northwest.

Task 5 Deliverables:

1. Meeting notes from coordination meetings.
2. Hard copies of permit submittals to IDEQ and PID.
3. Electronic copies of permit submittals.

Task 6 – Public Involvement

ENGINEER will assist the CITY with Public Involvement for the project. It is anticipated that the CITY will distribute informational flyers, post information to the CITY website, and host an open house to inform citizens about the project.

ENGINEER will develop a draft informational flyer and figures for the website for CITY review and approval. ENGINEER will develop final documents based on CITY review comments.

The public involvement described in this task may be coordinated with the County CUP review process (see Task 5).

Task 6 Assumptions:

1. ENGINEER will attend the public involvement meeting. CITY will coordinate and reserve a location for the meeting.
2. SOW includes developing figures illustrating lift station site design and building concepts and pipeline alignment based on the concept and preliminary design.

Task 6 Deliverables:

1. Electronic versions (PDF) of draft and final informational flyer for CITY review and approval.
2. Up to 3 poster boards for display at the open house

TIME OF COMPLETION and COMPENSATION SCHEDULE

COMPENSATION AND COMPLETION SCHEDULE			
Task	Description	Due Date	Compensation
1	Project Management	▪ Ongoing Throughout Project	\$79,443
2	Data Collection	▪ 3/24/23	\$16,154
3	Odor Control Alternatives	▪ 3/24/23	\$17,390
4	Final Design	▪	\$669,107
	30% Design Development	▪ 3/24/23	
	30% Design Review Meeting	▪ 4/7/23	
	Submit 30% for Agency Review	▪ 4/14/23	
	60% Design Development	▪ 5/26/23	
	60% Design Review Meeting	▪ 6/9/23	
	95% Design Development	▪ 8/18/23	
	95% Design Review Meeting	▪ 9/1/23	
	Permit Package Development	▪ 10/23/23	
	100% Design Development	▪ 12/22/23	
5	Permitting	▪	38,639
	IDEQ Review (PER)	▪ 6/9/23	
	Ada County CUP Review	▪ 9/9/23	
	PID Encroachment Review	▪ 5/12/23	
	Wilson Gas Encroachment Review	▪ 5/12/23	
	IDEQ Review (Permit Set)	▪ 12/15/23	

	ACHD Review	▪ 11/10/23	
6	Public Involvement	▪ TBD	\$16,646
TASK ORDER TOTAL: \$837,379.00			

The Not-To-Exceed amount to complete all services listed above for this Task Order is Eight Hundred, Thirty-Seven Thousand, Three Hundred and Seventy-Nine dollars and 00/100 (\$837,379.00). No compensation will be paid over the Not-to-Exceed amount without prior written approval by the Owner in the form of a Change Order. No travel or expenses will be reimbursed through this agreement. All costs must be incorporated in the individual tasks within the Compensation and Completion Schedule above.

CITY OF MERIDIAN

BY: _____
KEITH WATTS, Purchasing Manager

Dated: _____

Approve by Council:

City Project Manager:
David Briggs

CONSOR NORTH AMERICA, INC.

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2023.02.10 10:36:40-07'00'
BY: _____
DENNIS GALINATO, P.E., Principal Engineer

Dated: 2/10/13 _____