GREGORY L. GEIST | DIRECTOR



Water Quality Protection Surface Water Management Wastewater Collection & Treatment

June 12, 2025

BCC Agenda Date/Item: _____

Board of County Commissioners Acting as the governing body of Water Environment Services Clackamas County

Approval of an Amendment to a Contract with Consor North America for engineering services to the Intertie 2 Pump Station Expansion Project. Amendment Value is \$1,610,023 for 2 years. Total Contract Value is \$4,675,166 for 5 years. Funding is through WES Sanitary Sewer Construction Funds. No County General Funds are involved.

Previous Board Action/Review	Amendment #2 appro	22 approved – March 24, ved – August 1, 2023. ved – August 1, 2024.	, 2022.
Performance Clackamas	strategically plan an sustainable delivery resilient clean water of our communities,	s the WES Strategic Plar d upgrade WES' infrastru of reliable, high-quality, a services that support the natural environment, and s the County's Strategic I	and climate- e growth and vitality d economy.
Counsel Review	Yes	Procurement Review	Yes
Contact Person	Jeff Stallard	Contact Phone	503-742-4694

EXECUTIVE SUMMARY: The Intertie 2 Pump Station diverts flow in excess of Kellogg Creek Water Resource Recovery Facility's capacity to the Tri-City Water Resource Recovery Facility. The pump station is at capacity and was constructed so that pumps can be added to increase capacity over two expansions. This is the first expansion that was identified in the Sanitary Sewer Master Plan and identified a need to increase the capacity from the current capacity of 10 million gallons per day to 30 million gallon per day.

WES' 2025-2030 Capital Improvement Plan includes the pump station expansion project. The design and construction of the improvements for this system have been broken into two

separate bid packages (Force Main and Pump Station). This amendment expands the scope of work for Consor to perform engineering services during construction which include daily inspection of construction work, submittal and request for information reviews, system start up, and programming of the controls of this complex pumping system.

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RECOMMENDATION: Staff recommends that the Board of County Commissioners of Clackamas County, acting as the governing body of Water Environment Services, approve amendment #4 for contract #5222 with Consor North America, Inc. for the Intertie 2 Pump Station Expansion Project.

Respectfully submitted,

Gregi

Greg Geist Director, WES

Attachment: Amendment #4 for Contract #5222 Consor North America, Inc.



GREGORY L. GEIST | DIRECTOR

Water Quality Protection Surface Water Management Wastewater Collection & Treatment

AMENDMENT #4 TO THE CONTRACT DOCUMENTS WITH CONSOR NORTH AMERICA, INC. FOR **INTERTIE 2 PUMP STATION & FORCE MAIN EXPANSION** Contract #5222

This Amendment #4 is entered into between CONSOR North America, Inc. ("Contractor") and Water Environment Services ("District") and shall become part of the Contract documents entered into between both parties on March 24, 2022 ("Contract").

The Purpose of this Amendment #4 is to make the following changes to the Contract:

- 1. ARTICLE I, Section 1. Effective Date and Duration is hereby amended as follows: The Contract termination date is hereby changed from June 30, 2025 to June 30, 2027.
- 2. ARTICLE I, Section 2. Scope of Work is hereby amended as follows: District is requesting Contractor to perform construction support services on the Project, as a part of the Phase 2 services previously contemplated by the parties under the Contract, and further described in the supplemental Scope of Work hereby attached and incorporated by reference as Exhibit G.
- 3. ARTICLE I, Section 3. Consideration is hereby amended as follows: District is authorizing an additional \$1,610,023.00 for the additional construction support services. Contractor's Fee Schedule is hereby attached and incorporated by reference as Exhibit H. The maximum compensation authorized under this Contract shall not exceed \$1,610,023.00

ORIGINAL CONTRACT	\$ 1,100,708.00
AMENDMENT #1	Name Change
AMENDMENT #2	\$ 735,558.00 and Time Extension
AMENDMENT #3	\$ 1,419,450.00
AMENDMENT #4	\$ 1,610,023.00 and Time Extension
TOTAL AMENDED CONTRACT	\$ 4,675,166.00

Except as expressly amended above, all other terms and conditions of the Contract shall remain in full force and effect. By signature below, the parties agree to this Amendment 4, effective upon the date of the last signature below.

Water Environment Services
4:41:14 PM EDT
Chair
Date

Approved as to Form

County Counsel

Date

6/2/2025

Exhibit G Scope of Work for Phase 2

SCOPE OF WORK

AMENDMENT NO. 4 PUMP STATION AND DIVERSION FACILITIES CONSTRUCTION MANAGEMENT SERVICES IT2 PUMP STATION & FORCE MAIN EXPANSION PROJECT -CLACKAMAS WES

Introduction

Clackamas County Water Environment Services (WES) is currently in design of the Intertie 2 Diversion Pump Station Expansion Project. Constructed in 2011, the pump station has a firm capacity of 10 million gallons per day (mgd) and features two 5-mgd and two 10-mgd submersible pumps. The station pumps to the Tri-City Water Resource and Recovery Facility (WRRF), an approximate distance of 4 miles, through a 20-inch diameter ductile iron force main. The expansion project includes adding a fifth pump with 10-mgd capacity and completing installation of the parallel 30-inch diameter pipeline.

Consor North America, Inc. (Consultant) is currently providing engineering services for the preparation of construction contract documents for improvements to the pump station and diversion facilities. The project advertised for bids in December 2024 and construction is anticipated to begin in March 2025. The force main portion of the project is currently being constructed under a separate construction contract.

This scope of work includes construction support services for the pump station and diversion facilities portion of the project. It is anticipated to be an amendment to the existing professional services contract.

General Assumptions

- Where deliverable documents are identified, hereinafter, four (4) hard copies of the deliverable will be provided in addition to an electronic version in .PDF and original .DOC format.
- The Consultant's standard CAD software (AutoCAD) will be used to produce the drawings, following its own drafting standards. Final record drawings files will be delivered to WES in AutoCAD format.

District-Provided Services

The District will provide the following services for this project:

- Provide a Project Manager who will act as point of contact during the duration of the project.
- Furnish consolidated written review comments on deliverables.
- Organize meetings with WES staff as needed to solicit input.
- Sign permit application forms and pay fees directly to the agency.
- Quality control/assurance and third-party testing services.

Scope of Services

Task 1 - Project Management (Existing Task Supplement)

• Perform additional work to prepare monthly invoices and progress reports as required for work added in this amendment.

Task 1 Assumptions:

- A new Budget Remaining Report at the subtask-level for new Task 17 will be prepared and submitted monthly in conjunction with the project invoice.
- Invoicing and progress reporting for new work will be added to the current project invoicing process.
- Duration of project management tasks for new work included in this amendment is 23 months.
- Project date of completion (December 2026) remains unchanged.

Task 1 Deliverables:

• Monthly invoices with progress report, task-level budget report.

Task 2 – Quality Management (Existing Task Supplement)

Objective:

Consultant shall monitor the quality of the Project and perform internal quality assurance/quality control (QA/QC) reviews as described herein.

Activities:

• Conduct quality reviews for deliverables.

Deliverables:

• Documentation of QC reviews will be provided on Consultant's standard QA/QC form, as requested.

Assumptions:

• QA/QC reviews will be performed by consultant staff not directly involved with the project design team.

Task 11 – Prepare Diversion Facilities 90% Contract Documents (Existing Task Supplement)

Objective:

Advance the design of the improvements at the pump station and diversion structure and prepare 90% Contract Documents.

Activities:

- Perform additional CFD model revisions necessitated by existing non-compliant HI Standard wet well configurations. Additional CFD model revisions included additional analysis of pump sequencing, operations during different operational modes, and analysis of flow direction and induced spiral resulting in need for advanced vane recommendations.
- Perform additional coordination and analysis in the REPLICA model to assess the complexity of the operations. Operational scenarios were consistently re-evaluated throughout the design due to uncertainty of continued operation of flow meters within the collection system of the upstream pipeline. The complex operation including when to cycle between modes required additional District involvement and coordination.

Task 12 – Prepare Diversion Facilities Bid Documents (Existing Task Supplement)

Objective:

Prepare additional final sealed contract documents to be used for publicly bidding the diversion facilities improvements project.

Activities:

- Coordinate additional field survey and CAD file preparation at Tri-City WWTP to support adjacent IPS project by WES.
- Coordinate and review new information regarding existing conditions at Tri-City WWTP, revise pipeline profile, add drain valve assembly to construction drawings.
- Perform design work and add elements to the Pump Station construction contract documents at the request of District, as described below:
 - Add roof-mounted davit crane to building roof including coordination with architectural, structural disciplines;
 - Revise pump station yard piping configuration to combine 30" pigging vault and 30" flow meter vault into singular vault;
 - Revise 30" pump station discharge piping to accommodate vertically-oriented gate valves for pigging; lower pigging vault, revise drain piping, add sump pump;
 - Replace Flygt pump monitoring equipment for two existing 400-hp pumps at VFDs, provide wiring to interface equipment;
 - Perform additional design and coordination with District, equipment vendors for replacement of pump station PLC panel;
 - Add new electrical distribution panel at pump station to allow for sufficient future spare capacity.
 - Perform structural design work and create a reinforcement detail for the new wet well penetration by the 30" force main.
 - Perform additional design and coordination for Tri-City WRRF force main upgrade to reflect updated existing site conditions information on existing buried utilities and to accommodate force main drain valve.
 - Provide additional coordination with District and surveyor regarding additional topographic survey and mapping for District's IPS Project at Tri-City WRRF.

Deliverables:

- Design drawing files in AutoCAD
- Final sealed construction documents in PDF format

Assumptions:

• None.

Task 17 – Diversion Facilities Construction Management Services (New Task)

Objective:

Oversee construction phase activities as first point of contact for construction contractor. Coordinate with District staff and design team. Lead all project meetings and monitor project budget and schedule, quantities and quality of materials, and verify conformance with contract documents.

Subtask 17.1 Conformed Construction Documents

• Following award of the construction contract and prior to the pre-construction conference, Consultant shall prepare one set of Conformed Drawings for use by the District and Contractor. The Conformed Drawings set will consist of all contract drawings, to include all revisions made by addendum, and each sheet bearing a stamp noting it is part of the Conformed Drawings set.

Task 17.1 Deliverables

• Conformed drawings to be provided to District and Contractor in electronic format (PDF), and one (1) hard-copy set in 11x17 size.

Subtask 17.2 Construction Meetings

Attend and lead Pre-Construction Meeting. Prepare meeting agenda, run meeting, and issue meeting summary. Attend and lead weekly construction meetings. Prepare meeting agenda, run meeting, and issue meeting summary.

Subtask 17.2 Assumptions

- Eight (8) consultant staff to attend Pre-Construction Meeting.
- Two (2) Consor consultant staff to attend, lead and prepare meeting summaries for weekly construction meetings, at a combined three (3) hours per week for 20 months.
- EI&C subconsultant will attend 20 meetings as requested by Consultant at three (3) hours per week.

Subtask 17.2 Deliverables

Meeting agenda and meeting summary.

Subtask 17.3 Shop Drawings and Submittals

Receive, log, distribute, review, and track submittal reviews and responses for project submittals.

Receive, log, review contractor's request for substitution of materials and equipment, and advise the District as to the acceptability of such substitutions.

Subtask 17.3 Assumptions

- Assume 100 submittals and shop drawings at an average of four (4) hours per submittal.
- Assume 20 re-submittals at two (2) hours each.
- Assume 6 substitution reviews at an average of eight (8) hours per request.
- Consultant will manage the administration of submittals using Procore software provided by District.

Subtask 17.3 Deliverables

• Reviewed submittals and shop drawings returned to construction contractor.

Subtask 17.4 Respond to RFIs

Receive, log, distribute, and track RFIs and respond to construction contractor.

Task 17.4 Assumptions

- 50 RFIs are assumed, with an average of three (3) hours per RFI.
- Consultant will manage the administration of RFI using Procore software provided by District.

Task 17.4 Deliverables

• Reviewed RFI responses to construction contractor.

Subtask 17.5 Construction Administration

Provide assistance to WES for construction management and administration services to assist with monitoring that the project is completed according to the Contract Documents. Perform the following tasks.

- Coordinate and communicate with WES Project Manager and construction contractor on a regular basis to discuss project issues and status.
- Assist WES with assessing contractor-submitted schedule and updates, and 3-week look ahead schedules for feasibility and conformance with the Contract.

Subtask 17.5 Assumptions

- District will lead construction management, construction administration and communications tasks, with Consultant team providing assistance.
- District will receive certified payrolls for determining labor compliance and will prepare necessary documentation.
- Construction administration task will continue through the duration of the contract.
- District will furnish Procore software to be used for coordination of submittals and RFIs, and will operate and maintain the software for the project duration.
- Assume three (3) hours per week in construction administration assistance.

Subtask 17.5 Deliverables

• None.

Subtask 17.6 Construction Observation

Provide periodic construction inspection to observe construction as requested by WES staff, monitor the work by the construction contractor, and document that the work is in general compliance with the requirements of the Contract Documents. The Construction Inspector is to act as the District's on-site representative, is responsible for routine interfacing with the construction contractor, and is to observe the construction contractor's operations and work. The Construction Inspector's activities, in general, will include the following.

- Establish pre-construction site conditions using photo and video log of sites.
- Observe/inspect the Contractor's activities, operations, and work and document the Contractor's work is in general compliance with the requirements of the contract documents.
- Monitor the Contractor's progress with respect to planned/scheduled work.
- Document the Contractor's construction activities (preparation of daily reports, photographs, etc.).
- Create field note records of bid item work performed.

- Attend and participate in weekly project meetings.
- Verify and document that traffic control is per accepted traffic control plans when on-site.
- Keep Construction Manager informed of project progress, issues, and developments.
- Review minor change requests by the Contractor.
- Observe, document, and review the Contractor-provided quality control testing.
- Observe, document, and review Owner-provided quality control testing as required.
- Utility coordination with stakeholders.
- Track force account labor and equipment/materials; issue force account sheets for additional payment when required.
- Maintain field construction records and as-built set.

Subtask 17.6 Assumptions

- Construction inspector hours estimated at 16 hours per week for 20 months.
- Design engineer observation hours estimated at six (6) hours per week for 20 months.

Subtask 17.6 Deliverables

• Daily progress reports, photos, force account documentation.

Subtask 17.7 Monthly Progress Payments

Review contractor progress payment requests and submit to WES for payment.

Task 17.7 Assumptions

- 22 monthly progress payment requests.
- Progress payment applications will be processed by WES staff following initial review and recommendation by Engineer. Applications will be processed through Procore.
- Reviews of construction contract claims and protests are outside this scope of work.

Task 17.7 Deliverables

• Quantity tracking spreadsheet.

• Contractor monthly progress estimates with recommendation to pay.

Subtask 17.8 Change Orders

Provide management and administration services for Construction Contract Change Orders:

- Coordinate and communicate with WES Project Manager and construction contractor regarding issues that result in Contract Change Orders.
- Issue Change Orders and maintain a change order log.
- Review all contract change order proposals.

Subtask 17.8 Assumptions

• 12 contract change orders are assumed, at 15 hours per change order.

Subtask 17.8 Deliverables

• Change order documents to WES Project Manager for review and approval.

Subtask 17.9 Additional Services During Construction (Upon WES Authorization)

Provide additional services during construction, only upon prior authorization by WES. Services may include, but are not limited to:

- Design engineering for installation of wet well baffle;
- Design engineering required to address new requirements received from Union Pacific Railroad during construction;
- geotechnical engineering;
- utility locating;
- participation in judicial or alternative dispute resolution procedures for claims and disputes;
- post-construction restoration of disturbed survey monuments in accordance with local jurisdiction requirements.

Subtask 17.9 Assumptions

• Engineering staff time for additional design during construction is estimated at 60 hours.

• Geotechnical, survey and utility potholing to be performed by subconsultants only upon prior authorization.

Subtask 17.9 Deliverables

• None.

Subtask 17.10 Final Inspection & Acceptance

Provide construction management and administration services for the final inspection and acceptance of all work required by the construction contract:

- Coordinate with the contractor and District for all final inspections and acceptance.
- Prepare for and conduct walkthroughs of the construction work with representatives of WES. Prepare a "punch list" of items of work remaining. Recommend procedures and timing of connection to the existing District facilities.
- Prepare for and conduct a final inspection of the work with representatives of District. Prepare a "punch list" of items of work remaining to achieve final completion of the work and to prepare for District acceptance of the project. Recommend final payments to the contractor as appropriate. Recommend procedures and timing of acceptance of the project. Advise District and the contractor of the dates for any warranty periods as established in the contract documents.
- Identify substantial completion of the project and submit a certificate of substantial completion with District concurrence.

Task 17.10 Assumptions

- 180 hours allocated for Engineer of Record walkthroughs, observations, review of documentation and punch list preparation.
- Assistance for diversion facilities start-up is included in Task 19.

Task 18 – Control System Software Services (New Task)

Provide control system software services for the project. The services include planning, programming, testing, and startup for the PLC and HMI system components of the Intertie 2 Pump Station and Diversion Facilities to provide a functional and integrated system.

Task 18.1 Software Planning – Software Loop Descriptions

Develop final software loop descriptions based on the control narratives contained in the Contract Documents as well as reverse engineering existing PLC code for control of items not related to project design. The software loop descriptions will define the automated monitoring and control functions to be provided by the PLC and HMI software.

Task 18.1 Deliverables

• Final software loop descriptions

Task 18.2 Software Programming

Provide control system software programming services based on the final software loop descriptions defined in Task 18.1. The purpose of this task is to configure the PLC and HMI software to perform the functions identified in the process control narratives. The major task items of software configuration include:

- PLC programming for new automated monitoring and control functions
- Siemens HMI graphics for the facility improvements. Includes the following major approaches:
 - Draft Graphics Review #1: Provide electronic copies of 2 major process graphics (raw sewage pumping and odor control) and up to 2 control popups for review of concepts by District staff before labor is invested in development of all graphics required for the project. Consultant will lead a graphics review workshop with District staff at the project site to demonstrate the concepts and collect District feedback.
 - Graphics Review #2: Same as draft graphics review #1 except that review #2 will include all major graphics.
- No scope or effort for configuration of software outside of the IT2 pump station.
- Factory software acceptance testing: Offline software testing in Consultant's office. One day will be coordinated with District staff to demonstrate the proper function of the PLC-HMI links with simulated I/O before the software is taken to the field for final site acceptance testing with actual I/O. The testing will be executed with the final PLC and HMI software configurations developed in Consultant's office.

Task 18.2 Deliverables

- Draft Graphics Review Submittal
- Final Graphics Review Submittal

Task 18.3 Site Acceptance Testing

Provide control system software site acceptance testing services to confirm that the configured control system software provides automated monitoring and control functions for a functional

pump station and diversion facilities system. A testing schedule, clearly defining sequence of events, will be developed during software programming. Major tasks include:

- Functional Test Part 1 (FT1): This effort is entirely the responsibility of the contractor. The tests and documentation are requirements of the contractor as specified in the contract documents.
- Functional Test Part (FT2): Repeat the Contractor's unwitnessed Functional Test Part 1 (FT1) to confirm that the wiring systems and field equipment are ready for software functional testing. This testing requires support by the contractor for simulating field I/O and troubleshooting wiring.
- Software Functional Acceptance Testing: Test the software functions on a loop-by-loop basis using actual I/O from field devices. This testing will require multiple testing phases, dictated by the Contractor's schedule.
- Software Training:
 - Train District operations staff to use the new control system software.
- Site Software Acceptance Test Completion Documentation.
 - Site software acceptance testing: Software testing at project site with DISTRICT staff to demonstrate the proper function of the PLC-HMI links with actual I/O after functional testing with the contractor has been completed. The testing will be executed with the final PLC and HMI software configurations started up at the project site.

Task 18.3 Deliverables

• Final site software acceptance test documentation consisting of formal signoff of software functions.

Task 18.4 Final Control System Software Documentation

Provide deliverables to document the final PLC and HMI software configurations.

Task 18.4 Deliverables

- Final Software O&M File
- File drive containing the following:
 - Final HMI Graphics application
 - o Final PLC files

- Final software loop descriptions
- o Final software tag list

Task 18 Assumptions

- The scope of work is based on providing functions described in the process control narratives developed during project design as well as reverse engineering existing PLC code for control of items not related to project design.
- Up to 14 days of effort will be included for developing software loop descriptions for Phase 1 and Phase 2 of the project design.
- Up to 190 new, existing, or modified hardwired I/O points.
- HMI and PLC software will be configured to DISTRICT software standards.
- Configuration and installation of all VFDs and instrumentation to be done by others.
- Consultant will configure new Siemens HMI tags and graphics for processes monitored and controlled by new PLCs. The scope and fee are based on HMI quantities as listed below:
 - Up to 14 new Siemens HMI process graphics (excluding control popups) for raw sewage pumping, force mains and odor control systems.
- Consultant will write programs in new files so all work can be done offsite and only brought online at site as systems and components are brought online.
- Consultant will use District's existing programming licenses for all software, including Siemens HMI, Siemen's PLCs.
- The scope assumes up to two graphics workshops (draft and final). Draft workshop will be 4-hour duration and the final workshop will be up to a 4-hour duration. District will provide marked-up copies of the graphics identifying the desired changes within 1 week from completion of the draft workshop.
- Configuration of radio (Motorola) callout system is not part of the scope.
- It is assumed that all modes of pump control will be able to be tested during startup.
- Site final software acceptance testing will include one day of formal testing, signoff, and documentation of software functionality with the District.
- District staff will participate in software factory testing and final site software testing.
- Factory testing of equipment (drives or package systems) is provided under other tasks.

- Software internal testing includes up to 160 hours of consultant time.
- Software functional testing includes up to 220 hours of consultant time.
- Operations training will include up to one day of onsite training for District operations staff.
- No post startup support is included in this scope of work.
- Software O&M documentation is limited to printouts and electronic copies of the final HMI and PLC programs.
- O&M documentation does not include a custom SCADA O&M or a custom SCADA training manual. A custom SCADA O&M manual would include an operations manual for each SCADA process graphic and may be provided under separate authorization by the District.

Task 19 – Operations Support Services (New Task)

Objective:

Provide operations support services during and after construction to assist the District in operating and maintaining the pump station and diversion facilities.

Subtask 19.1 Operation & Maintenance Manual

Prepare draft Operation & Maintenance (O&M) Manual for the completed facilities in accordance with Oregon DEQ guidelines and District standards. Submit to WES for review and approval by WES and DEQ. Incorporate DEQ and WES comments into the final version.

Task 19.1 Deliverables

- Prepare draft Operation & Maintenance Manual to be provided as electronic copies in pdf format.
- Prepare final Operation & Maintenance Manual, to be provided as electronic copies in pdf format, and in hard-copy format in 3-ring binders.

Task 19.1 Assumptions

- O&M manual to include manufacturers' literature furnished and/or installed on the Project as provided by the contractor via submittals and other required information.
- O&M manual to include narrative of pump station operations and operating conditions.
- O&M manual to include descriptions of HMI screens of pump station control software.

• O&M manual to include pump station and force main maintenance recommendations and requirements.

Subtask 19.2 Start-up Assistance

Observe and provide start-up assistance to the District during the functional testing and startup of the project. This will include evaluating pump performance and station operations.

Task 19.2 Assumptions

• An allowance of 160 hours is assumed for start-up assistance.

Subtask 19.3 Record Drawings

Prepare record drawings of the project based upon the construction records of the contractor and Engineer's on-site representative (electronic AutoCAD and PDF format).

Task 19.3 Deliverables

• Record Drawings to be provided as electronic copies in pdf and AutoCAD file format.

Task 19.3 Assumptions

• Printing and production of hard-copy record drawings is not included.

Budget

Payment will be made at the billing rates for personnel working directly on the project, which will be at the Consultant's Hourly Rates, plus Direct Expenses incurred. Billing rates, expenses, and outside services are listed below.

Personnel Billing Rates

Labor will be invoiced at direct labor with a 3.15 multiplier, up to the maximum rate allowed by WES. Current maximum rate allowable is \$260 per hour.

Project Expenses:

Expenses incurred in-house that are directly attributable to the project will be invoiced at actual cost. These expenses include the following:

Mileage (allowed where one-way trip exceeds 25 miles)	Current IRS Rate
Postage and Delivery Services	At Cost
Printing and Reproduction	At Cost
Travel, Lodging, and Subsistence	At Cost

Outside Services:

Outside technical, professional, and other services will be invoiced at actual cost-plus 5 percent.

Proposed Project Schedule

Construction is anticipated to commence in March 2025 and be completed by February 28, 2027. For budgeting purposes, a duration of 20 months of active construction is assumed starting June 2025.

Exhibit H Fee Schedule

AMENDMEIT NO. 4 - NUMP STATION AND DIVERSION H.CLITES CONSTITUCTION MANAGEMENT SERVICES AND PUMP STATION DESIGN SERVICES INTERTE 2 - NUMP STATION & CONCE MAN EXPANSION CLAGAMA WATER EXAMMENT SERVICES MADRED RE SERVICES

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	Tesk 18 - Control System Software Services (New Tesk)														l								
	Test 15.1 - 5 of wee Planning -5 of were Loop Dejorithers	~		4	4										10	2,050	5	43,341			\$ 51280		53343
	Task 18.2 - Software Programming	2		4	4										10 S	2,050	s	02.5,02			\$ 104,285		106,346
	Teak 16.3 - She Acceptance Testing	17		22	42										30	7,042	ŝ	133,269			\$ 139,932		146,974
		2		4	4										10 S	2,050	\$	7,800		_	5 8,190	s . s	10,250
	Task 18 Subtorial	20	•	x	16	•			•	•	•	•	•	•	60 \$	13,221 \$	- \$	289,230 \$	- \$	- \$	- \$ 303,692	\$\$	316,913
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	Test: 19 - Operations Support (New Task)			~	an a	+	+					T	T	4	100	20 ML		10.000			2 (0) (1)	-	10.100
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