GUAM CONSOLIDATED COMMISSION ON UTILITIES

RESOLUTION NO. 30 – FY2016

RELATIVE TO APPROVAL OF THE TUMON HOT SPOTS SEWER LINE DESIGN PROJECT

WHEREAS, under 12 G.C.A. § 14105, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual and policy matters relative to the Guam Waterworks Authority ("GWA"); and

WHEREAS, the Guam Waterworks Authority ("GWA") is a Guam Public Corporation established and existing under the laws of Guam; and

WHEREAS, GWA has received a grant from USEPA under the State Revolving Fund program to improve the sewer collection system, which included approximately 2,125 linear feet of gravity sewer line along Route 14, flowing into the Fujita Pump Station in Tumon; and

WHEREAS, the stretch of gravity sewer line indicated is in need of repair and is constricted by Fats, Oils and Grease (FOG) along most of its length causing the sewer line on Route 14 to experience Sanitary Sewer Overflows (SSOs) and surcharging; and

WHEREAS, GWA and USEPA agree that efforts to rehabilitate, repair or replace the sewer line are necessary and the first steps to do so are through a scope of services that includes general civil engineering, geotechnical engineering, and archaeological investigation for wastewater collection system evaluation, analysis and detailed design; and

WHEREAS, GWA has advertised a Request for Proposal (RFP-01-ENG-2016) soliciting a statement of qualifications from experienced and qualified engineering firms to provide engineering design services for the Tumon Hot Spots Sewer Line Rehabilitation and Replacement Project; and

WHEREAS, Request for Proposal (RFP) packages were downloaded by multiple interested parties, from which GWA received proposal submittals from three (3) engineering firms before the RFP submittal deadline; and

WHEREAS, the GWA A-E Selection Committee reviewed and evaluated the three (3) proposals (see EXHIBIT A-Evaluation Score) and made a recommendation to award a contract to the firm TG Engineers, PC ("TG") and any successor at interest thereto (see EXHIBIT B-Evaluation Summary and GM Determination); and

WHEREAS, TG and GWA negotiated the scope and fee for the Engineering services to be provided in the fixed fee amount for basic design services of Two Hundred Thirty Eight Thousand One Hundred Seventy Four Dollars and Zero Cents (\$238,174.00) with design service options related to 1) Cleaning, Bypass pumping, CCTV, Geotechnical and Archaeological Services in the amount of Two Hundred Sixty Seven Thousand Five Hundred Sixty Dollars and Zero Cents (\$267,560.00) and 2) Construction Procurement/Engineering Services during construction in the amount of Sixty Six Thousand Three Hundred Fifty Five Dollars and Zero Cents (\$66,355.00), should these service options be needed, on a Time and Materials basis (see EXHIBIT C – Fee Proposal); and

WHEREAS, the design service options noted above are viewed by GWA Engineering as potentially necessary based on several factors, to include: 1) the condition of the existing sewer pipe, 2) the discovery of archaeological and cultural resources along the sewer line route, and 3) the need for engineering services during construction: and

WHEREAS, these options for design services are based on negotiated Time and Materials rates for service; and

WHEREAS, GWA Management seeks approval of the fee proposal amount of Five Hundred Seventy Two Thousand Eighty Nine Dollars and Zero Cents (\$572,089.00), plus a ten percent (10%) contingency of Fifty Seven Thousand Two Hundred Eight Dollars and Ninety Cents (\$57,208.90), for a total amount of Six Hundred Twenty Nine Thousand Two Hundred Ninety Seven Dollars and Ninety Cents (\$629,297.90); and

WHEREAS, funding for this project will be from USEPA Grant Funds and, if necessary, GWA 2013 and 2015 Bond Funds; and,

NOW BE IT THEREFORE RESOLVED, the Consolidated Commission on Utilities does hereby approve the following:

- 1. The recitals set forth above hereby constitute the findings of the CCU.
- 2. The CCU finds that the terms of the fee proposal submitted by TG are fair and reasonable.
- 3. The CCU finds that the terms and conditions set by GWA relative to commencement of work activities are fair and reasonable and serve as a measure of Quality Assurance/Quality Control (QA/QC).
- 4. The CCU hereby authorizes the management of GWA to enter into a contract with TG in the amount of Five Hundred Seventy Two Thousand Eighty Nine Dollars and Zero Cents (\$572,089.00) from which Three Hundred Thirty Three Thousand Nine Hundred Fifteen Dollars and Zero Cents (\$333,915.00) will be on an as-needed, and Time and Materials basis.
- 5. The CCU hereby further approves the total funding amount for this project of Five Hundred Seventy Two Thousand Eighty Nine Dollars and Zero Cents (\$572,089.00), plus a ten percent (10%) contingency of Fifty Seven Thousand Two Hundred Eight Dollars and Zero Cents (\$57,208.90), to bring the total authorized funding amount to a maximum of Six Hundred Twenty Nine Thousand Two Hundred Ninety Seven Dollars and Ninety Cents (\$629,297.90).
- 6. The CCU hereby further approves the funding source will be from USEPA Grant Funds and, if necessary, GWA 2013 and 2015 Bond Funds.

RESOLVED, that the Chairman certified and the Board Secretary attests to the adoption of this Resolution.

DULY AND REGULARLY ADOPTED, this 26th of April, 2016.

_		5.11.25 1.12.5, time 20	, of ripin, 2010.
3	Certified by:	Attested by:	
5	ATO-		M. J. Blh
6 7	JOSEPH T. DUENA	$\frac{1}{J}$. GE	EORGE BAMBA
8	Chairperson	Secret	etary
9 0		Board Secretary of the Consol acture above do hereby certify	lidated Commission on Utilities as y as follows:
1	The foregoing is a ful	l, true and accurate copy of the	he resolution duly adopted at a regula
2 3	legally held at a place	ers of the Guam Consolidated properly noticed and advertise pers who were present voted a	d Commission on Utilities, duly and ised at which meeting a quorum was as follows:
4 5	AYES:	4	
6	NAYS:		
7	ABSTENTIONS:	0	
8 9	ABSENT:	0	La Consideration of the Constant of the Consta
			A State Company
1			
2			
1			
5			
_			

Exhibit A (1 of 1)



Gloria B. Nelson Public Service Building • 688 Route 15 • Mangilao, Guam 96913

January 19, 2016

To:

Thomas F. Cruz, P.E., Chief Engineer

From:

Gloria P. Bensan

Chairperson, Consultant Selection Board

Subject:

RFP-01-ENG-2016

Design Services for Tumon Hot Spots Sewerline Rehabilitation and

Replacement

GWA Project No. W16-001-EPA

The following information is intended to document the evaluation process undertaken for the referenced solicitation.

EVALU	JATION COMMITTEE MEMBERS
Name	Title
John Davis, P.E.	CIP Wastewater Engineer Supervisor
Evangeline Lujan	Senior Regulatory Analyst, Compliance & Safety
Vincent Pangelinan	Centralized Wastewater Maintenance
William Gilman	PMO, Brown & Caldwell

Ĺ	Consultant	E	valuati	on Sc	ore	DBE	Total	Rank
1.	EMPSCO Engineering Consultants	85	57	78	76	5	301	3
2.	LYON	81	50	76	74	0	281	4
3.	TG Engineers, PC	88	83	77	91	5	344	1
4.	Duenas, Camacho & Associates	87	80	78	92	5	342	2

Scores were evaluated based on sum of the individual scores plus additional five points for firms meeting DBE qualifications. The recommendation of the evaluation committee is shown in the ranking above.

Please review and approve at your earliest convenience so that we may proceed with the notification letters.



"Better Water. Better Lives." Gloria B. Nelson Public Service Building 688 Route 15, Mangilao, Guam 96913

MEMORANDUM

Miguel C. Bordallo, P.E., General Manager

To:

MCB/gb/fK

From:	Thomas F. Cruz, P.E., Chief Engineer
Subject:	Evaluation Summary for RFP-01-ENG-2016 Design Services for Tumon Hot Spots Sewerline Rehabilitation and Replacement GWA Project No. W16-001-EPA
Date:	January 19, 2016
consultant for	Committee has completed all necessary actions for selecting the most qualified the referenced solicitation. All proposals were reviewed and scored according to established in the solicitation and shortlisted firms were interviewed.
The committe project:	e recommends the following top three (3) firms in order of preference for the
2. Du	Engineers, PC enas, Camacho & Associates IPSCO Engineering Consultants
The evaluation	summary sheet is attached for your information.
	GENERAL MANAGER'S DETERMINATION
Consultant Fir	m Selected:
TO	engineeps
Remarks:	
M	1/19/16
MIGUEL C. Bo General Mana	ORDALLO Date

Exhibit C (1 of 24)

TG ENGINEERS, PC

April 13, 2016

Phone: (671)647-0808

Email: torg@tg-engr.com

Fax: (671)647-0886

Mr. Miguel Bordallo, PE General Manager Guam Waterworks Authority Gloria B. Nelson Public Services Building 688 Route 15 Mangilao, Guam 96913

Attn: Mr. George Watson, Project Engineer

Re: <u>TUMON HOTSPOTS SEWERLINE REHABILITATION AND REPLACEMENT PROJECT S16-001-EPA - FEE PROPOSAL</u>

Buenas yan Hafa adai George,

TG Engineers, PC (TGE) is pleased to submit our updated Scope of Services and Fee Proposal for the referenced project.

Thank you for the time and effort that has been spent by your office to join meetings and participate in our discussions regarding the project scope. We have ended up adding in a budget for a continuous flow bypass system to be utilized during the cleaning and CCTV work. We believe this will be the best method to minimize the potential for delays or complications during the work.

We look forward to reaching agreement on the scope and fee and beginning the work.

Please call Teena Barnes or myself at 647-0808 with any questions.

Si Yu'os Ma'ase, TG Engineers, PC

Tor Gudmundsen, PE

President

Exhibit C (2 of 24)

April 13, 2016

GWA Tumon Hot Spots \$16-001-EPA Proposal

Attachments:

- > Scope of Work, dated 4/13/16, 10-pages
- > TGE Fee Spreadsheet, dated 4/07/16, 9-pages
- > Stanley Consultants Fee Spreadsheet, dated 3/23/16, 2-pages
- > Detry Fee Proposal, dated 4/13/16, 1-page

GUAM WATERWORKS AUTHORITY S16-001-EPA - TUMON HOT SPOTS SEWER LINE REHABILITATION AND REPLACEMENT PROJECT SCOPE OF WORK

The work performed under this scope shall consist of cleaning sewer pipelines, identifying deficiencies, evaluating alternative solutions, developing engineering design documents, and providing bidding and construction support services for a sewer pipeline rehabilitation or replacement effort along Route 14, Pale San Vitores, in Tumon, in compliance with the conditions set by the United States Environmental Protection Agency (USEPA) State Revolving Fund (SRF) Grant No. SRF 96902615-0 WW 10.

The Design Consultant must comply with the standards of the Guam Board of Registration for Professional Engineers, Architects and Land Surveyors ("PEALS") and applicable engineering practice laws. Guam Waterworks Authority (GWA) reserves the right to review and approve the design consultant and sub-consultants.

BACKGROUND

Portions of the gravity wastewater collection system along Pale San Vitores, in Tumon need frequent pumping and line cleaning, and often experience sanity sewer overflows (SSOs) during high rainfall periods. In particular, the gravity sewer lines around the Fujita Pump Station experience surcharges during peak flow hours. GWA field operators have to visit these locations frequently to jet and flush the line and prevent surcharging. Reference documents show the sewer lines that require frequent pumping and cleaning. A list of reference documents is provided at the end of this document. The two lines indicated in maps TU-101 and TU-102 are suspected to have sags, which could contribute to frequent surcharging. Additionally, Fats, Oils and Grease (FOG) buildup reduces available flow area, and is a common problem that appears to exacerbate surcharging in these lines.

In July 2015, Brown and Caldwell (BC) prepared the Tumon Wastewater Conveyance System Model Update (2015 Model) to estimate wet weather flows to the Fujita Pump Station and assess capacity of the conveyance system. The 2015 Model is provided along with Reference documents.

Due to surcharging in the hot spot areas indicated on the attached maps, the Closed-Circuit Television (CCTV) footage is limited. The existing pipe diameter is 12-inches for the hot spot area except a segment between MH's 1347-1339 is thought to be 16" or 18" diameter. Any temporary halt in service for these lines will require bypass measures to be in place. The Design Consultant is to evaluate approximately 1,600 linear feet of pipe along Pale San Vitores for repair or replacement to improve wastewater service and reliability.

The line to be evaluated extends from MH-1347 to MH-1353, and the Fujita Pump Station is the downstream point. Refer to Figure 1 for Project Limits. The as-built maps for the subject area and appropriate project-related NEPA documents are provided in Reference Documents.



Figure 1. Project Limits

PROPOSED SCOPE OF CONSULTANT SERVICES

The scope of services for this assignment includes general civil engineering for wastewater collection system investigations, evaluation, analysis and design. The scope of the Design Consultant's services will consist of the following:

Task 1 - Project Management

The Design Consultant shall provide the following:

- a. Project Management Plan including:
 - Project Description
 - Scope of Work (from contract)
 - Work Plan
 - Listing of Sub consultants and Organizational Chart

- GWA TUMON HOT SPOTS SEWER LINE | Scope of Work
- b. Project Schedule: Submit schedule for approval. Update schedule at all phases of the project, including monthly meetings, dates for completion of engineering design studies, milestone tasks, and dates for review periods. The schedule will include permit approvals. The schedule will be based on the target completion date of November 2016. Throughout the project, the Consultant shall routinely evaluate if the target dates will be accomplished and notify GWA immediately if any delay in schedule is likely.
- c. Progress Reports: Submit monthly progress/status reports together with an Earned Value Chart to support monthly billings.
- d. Meetings and Coordination: Attend regularly-scheduled meetings and coordinate with entities within and, as appropriate, outside the Tumon Hot Spots Sewer Line Rehabilitation and Replacement team. It is anticipated that coordination meetings will be held biweekly or as needed until the completion of the design stage (Task 6). The Design Consultant shall identify and facilitate milestone meetings.

The Task 1 effort is expected to span through the design phase (Task 6).

Task 2 - Data Research

The Design Consultant shall perform research of available data concerning the pipeline, associated pump stations, and any other related facilities which includes, but is not limited to the following:

- a. Record drawings
- b. Planning and evaluation studies
- c. Maintenance and repair history
- d. Pipeline/manhole inspection data
- e. Pump station operation data
- f. Existing flow monitoring data
- g. Fujita pump station flow data
- h. Fujita pump curves
- i. Interviews with GWA Staff
- j. Fats, Oils, and Grease (FOG) buildup and cleaning records
- k. Location of grease traps and records of grease trap inspections

The purpose of the Data Research task is to gain a thorough understanding of the existing sewer system within the project area based on available information. Upon completion of the data research task, the Design Consultant shall initiate the field inspection effort described in Task 3.

Task 3 - Field Investigation with Preliminary Review of Pipe Cleaning Options

The Design Consultant shall conduct field investigations to cover any data gaps identified in Task 2 that may prevent a clear understanding of the existing sewer system.

a. The Design Consultant shall perform field investigations to determine existing conditions and identify defects in the Pale San Vitores sewer pipelines and manholes within the project limits, as well as the associated Fujita pump station.

- b. The TGE team shall review options for pipe cleaning to remove the heavy FOG buildup including, jetting, chain cutters, root saws and other equipment options. The team will complete a brief summary report and provide a recommendation for the preferred method for pipe cleaning.
- c. Prior to investigations, the Consultant will obtain necessary permits such as DPW Encroachment Permit. Traffic Control Plans will be prepared to ensure safety during the inspections.
- d. An Emergency Response Plan will be prepared to summarize the field investigation operations and outline an Emergency Response Plan to manage any unexpected scenarios during the operations. The plan will be submitted in draft and final form to incorporate input from all stakeholders.
- e. Right-of-Way and Topographic Surveys will be completed on Pale San Vitores Road and Fujita Road in the project area.
- f. Pipeline Cleaning with Flow Bypass Operations
 - Mobilization to the project location.
 - Line cleaning by Jetting and with Chain Cutter equipment to cut through the FOG buildup and open the pipeline for appropriate investigations and decisions about rehabilitation or replacement.

Based on extensive discussions of the cleaning operation within the TGE team, we propose to provide a continuous flow bypass system to facilitate the cleaning operation. The plan is to use 3,000-5,000gpm, trailer mounted pumps and piping to bypass pipe segments for the cleaning and CCTV work. Each bypass equipment setup will include a 2-pipe segment with the upstream segment used for cleaning and camera work.

Part of the reason for including the flow bypass system is the wet season work schedule anticipated.

- g. Protruding Laterals The team is concerned about protruding laterals which may be found extending into the pipe and complicating the cleaning work progress. The team assumes that protruding laterals, if found, may be steered around with the equipment or may be cut through with the pipe cleaning equipment. Protruding laterals that cannot be steered around or are a good condition and not possible to cut, will be left in place and evaluated with the overall pipe condition.
- h. Pipeline closed-circuit television (CCTV) inspection will consist of the following tasks:
 - Mobilize to the project location.
 - CCTV vehicle and equipment for CCTV inspections
 - Traffic control using cones and signs as indicated in Traffic Control Plans
 - National Association of Sewer Service Companies (NASSCO) certified supervisor to perform CCTV inspections

GWA TUMON HOT SPOTS SEWER LINE | Scope of Work

- CCTV inspection beginning one manhole upstream on each side of the project limits to
 obtain a better understanding of the system condition and functional status. As such, the
 pipe length for CCTV inspection will be 525-feet longer compared to the project length
 and total 2,125 linear feet of 12-inch sewer line. In addition to the pipes marked in red on
 Figure 1, CCTV inspections will cover the 12-inch line segments between MH-1346 and
 MH-1347, as well as MH-1352 and MH-1353.
- Documentation of all inspections in a searchable MPEG-2 format with each incident logged electronically by footage and video frame location
- Documentation of all inspections on NASSCO compliant computer generated inspection forms with graphical representation of pipeline and defects at footage marks
- i. Manhole Inspection will consist of the following tasks:
 - Mobilization to the project location
 - Vehicle, equipment and staff for manhole inspections
 - Traffic control using cones and signs as indicated in Traffic Control Plans
 - NASSCO-certified Crew Leader responsible for all activities
 - Manhole Assessment Certification Program (MACP) Level 2 inspection for 10 manholes
 - GPS information for each manhole located
 - Digital photographs including area, upstream, downstream, the top and bottom of the manhole cover, downward view, the ring, rungs, and any visible defects from the surface
 - Documentation of all inspections on computer generated forms in MACP format
- j. Flow monitoring DELETED
- k. Fujita Pump station evaluation and testing will consist of the following:
 - Site visit with the Owner. Members of the Design Consultant's team that will attend the site visit include a Civil, Environmental and Electrical Engineer.
 - The team will verify existing conditions and collect data for evaluating wet well sizing, operations, levels, pump start/stops, and electrical controls and equipment to determine operating capacity and identify deficiencies.
- I. The Design Consultant shall submit to GWA digital copies of field data collected which will include:
 - One (1) video/data file of each CCTV inspection conforming to NASSCO standards
 - One (1) PDF file of each computer-generated NASSCO report and the Top View report
 - One (1) summary spreadsheet, in Microsoft Excel® format, of the CCTV inspection
 - One (1) PDF of each computer-generated manhole inspection report with embedded photographs
 - One (1) summary spreadsheet, in Microsoft Excel[®] format of the manhole inspections
 - One (1) summary sheet, in Microsoft Word[®] format of the pump evaluation and testing results
- m. Note due to uncertain existing pipe conditions, the work included in Task 3.f. and 3.h. will be charged to the project budget on a Time & Materials basis to compensate fairly for the actual work completed.

Task 4 - Hydraulic Analysis

DELETED.

Task 5 - Design Alternatives Report ("DAR")

At the completion of Tasks 2 and 3, the Design Consultant shall develop a DAR that includes the following information:

- a. A list of all data gathered and analyzed from Task 2
- b. A summary of findings and conclusions from Task 3
- c. Based on Task 3 the Design Consultant shall provide repair and/or rehabilitation alternatives for the project. A comparison of feasible design alternatives for rehabilitation, repair, or replacement of the identified hot spots in the gravity sewer pipeline along Pale San Vitores in Tumon.
- d. The alternatives analysis shall include the following comparison items:
 - geotechnical investigation requirements
 - cultural resource and historical survey requirements
 - construction cost estimates
 - construction schedules
 - construction implementation (equipment staging, traffic control, sewer bypass requirements, pump station modifications, etc.)
 - · permitting requirements
- e. Final alternative recommendation

The DAR shall be reviewed by GWA for three (3) weeks and is subject to the approval of the GWA Chief Engineer. After written approval of the final DAR is issued, the scope of services may continue into Task 6. As part of the SRF Grant conditions, the DAR will be forwarded to the USEPA for their concurrence.

Task 6 - Design Documents

The Design Consultant shall:

- a. Coordinate with and incorporate information from Program Manager.
- b. Comply with National Environmental Policy Act ("NEPA") in accordance with grant conditions.
- c. Conduct boundary and topographic surveys within the project limits.
- d. Complete a minimum 2-borings to 5-ft depth below the deepest manhole. The borings if required will be spaced along the lines in Pale San Vitores Road at locations confirmed with GWA.
- e. If pipe replacement is determined to be recommended course of action, conduct archival research and preparation of an Archaeological Monitoring and Data Recovery Plan (AMDRP). The Guam SHPO requires preparation of an AMDRP prior to any ground disturbance. The fee proposal currently assumes pipe rehabilitation in the form of cured-in-place pipe (CIPP) which will not require ground disturbance.

GWA TUMON HOT SPOTS SEWER LINE | Scope of Work

- f. Prepare progress (30%) plans, specifications, Class 2 construction cost estimate per the Association for the Advancement of Cost Engineering International (AACE), and contract documents conforming to the GWA and Program Management Design Guidelines as to what should be included in this submittal. Additionally, include profiles, by-pass pumping, construction phasing, construction staging, and traffic control.
- g. Allow three (3) weeks for GWA to review 30% design. Incorporate adjudicated comments into the design and submit a formal response to each comment.
- h. Prepare progress (90%) plans, specifications, Class 1 (AACE) construction cost estimate, and contract documents, conforming to the GWA Design Guidelines.
- h. Allow three (3) weeks for GWA and USEPA to review 90% design. Incorporate adjudicated comments into the design and submit a formal response to each comment.
- i. Prepare final (100%) "Issued for Bid" bid documents which includes general terms and conditions, plans, and specifications which also utilize the most recent versions of GWA's procurement templates. Any information or sections contained in the GWA templates shall not be duplicated in the technical sections of the bid documents, including subject matter. Brand name specifications will not be used other than in a manner approved in advance by the GWA General Manager and the GWA legal counsel. This submittal will be also submitted to the USEPA for their review and concurrence.
- j. Prepare permit applications for all local authorities, highway departments, and other utilities. Assist in obtaining the permits.
- k. Provide digital copies of the final design documents
- All cost estimates shall conform to the guidelines of AACE. During the design process, Consultant shall immediately notify the GWA when any design decision causes a significant cost increase to the project.
- m. Provide deliverables in accordance with GWA Guidelines. Five (5) sets of submittals shall be submitted for the deliverables.
- n. Note due to uncertain existing pipe conditions, the work included in Task 6.d. and 6.e. will be charged to the project budget on a task Time & Materials basis to compensate fairly for the actual work completed.

It is anticipated that GWA will use a design-bid-build procurement method. Construction documents must be finalized prior to commencement of the formal bidding process, which has a target start date no later than December 2016.

Task 7 - Bidding Process

The Design Consultant shall provide the following services:

- a. Pre-bid meeting
 - Prepare meeting agenda and sign-in sheets
 - Coordinate and facilitate the meeting with GWA
 - Record meeting minutes
- b. Compile requests for clarification and prepare addenda as needed
- c. Attend bid evaluation conference
- d. Review, evaluate, and certify bid tabulations
- e. Make recommendation for construction contract award

Task 8 - Services During Construction

Note: Construction Management ("CM") services are expected to be provided by a third party.

The Design Consultant shall:

- a. Prepare final (100%) "Issued for Construction" conformed plans and specifications incorporating addenda, change orders and changes during the bid phase.
- b. When required by the CM, attend construction progress meetings.
- c. Perform field observations as required by the CM and submit field reports documenting any findings
- d. Review contractor submittals, RFI's, Change Orders and contractor's schedule and provide responses/comments as requested by the CM.
- e. Perform final inspections and submit punch list as requested by the CM.
- f. Provide Final Record Drawings based on marked-up construction drawings.
- g. Note the Construction Support Services will be billed on a Time & Materials basis.

GOVERNMENT REVIEW

The Guam Waterworks Authority will work closely with the Design Consultant to expedite design reviews. The Design Consultant will schedule and hold progress meetings biweekly or as required. The Design Consultant will submit progress meeting minutes within three (3) work days to GWA.

GWA has retained a Program Manager, Brown and Caldwell, to assist with the management of this project in accordance with the SRF Grant. The Design Consultant will work under the direction of the GWA General Manager, the GWA Chief Engineer and the Program Manager.

RELATIONS WITH OTHER GOVERNMENT AGENCIES

All directions within the scope of this contract will be issued by the General Manager of the Guam Waterworks Authority and the design consultant shall not accept such direction from others. Information provided by other agencies which seemingly conflicts with information provided by the General Manager will be discussed immediately. This policy is not intended to prevent the Design Consultant from obtaining necessary design information from other agencies.

RESPONSIBILITY OF THE DESIGN CONSULTANT

a. The Design Consultant shall be responsible for the professional and technical accuracy and the coordination of all designs, drawings, specifications, cost estimates, and other work of materials furnished by him under this contract. The Design Consultant shall, without additional cost to the GWA, correct and revise all errors or deficiencies in his work.

b. Neither the GWA's review, approval, or acceptance of non-payment for any of the service required under this contract shall be construed to operate as a waiver of any rights under this contract or of any cause of action arising out of his performance of this contract, and the engineer/architect shall be and remain liable to GWA for all costs of any kind which were incurred by GWA as a result of their negligent performance of any of the services furnished under this contract.

SCHEDULE AND SUBMITTALS

GWA plans to complete the construction of this rehabilitation or replacement project by mid-2018. To meet this deadline, the Design Consultant must complete the design by October, 2016, and submit the completed design package to the USEPA and GWA for approval by November, 2016. The design will not be considered complete until all draft submittal comments have been addressed and the design is completed and submitted to GWA and USEPA for final approval. The following tentative schedule shall be finalized after award of this design services contract.

Action Item	<u>Date</u>
Execution of Contract, NTP	05/2016
Complete design	11/2016
USEPA approval	12/2016
GWA issue IFB and advertise for construction	12/2016
Open bids, evaluate and select bidder	01/2017
USEP A approval of contractor	01/2017
Award contract,	03/2017
Notice-to-Proceed to Contractor	03/2017
Anticipated Project Completion	10/2017

GWA RESPONSIBILITIES

The Guam Waterworks Authority responsibilities include:

- a. Furnish the Design Consultant with record drawings, reports, flow meter data, and other information of existing facilities covered by the Request For Proposal (RFP) that are available in GWA files.
- b. Provide, if requested, assistance necessary for the Design Consultant and its agents during the initial entry into GWA properties. GWA operations staff may or may not be available to provide limited traffic control, manual operation of pumps, opening of manholes and vaults, and site access to GWA facilities as requested. Requests for such assistance shall be made in writing at least 72 hours in advance of such need to the GWA General Manager.

LIST OF REFERENCE DOCUMENTS AS PROVIDED IN THE RFP

Appendix A – Wastewater System Map

Appendix B – Tumon Wastewater Conveyance System Model Update (2015 Model)

Appendix C – As-built Maps

Appendix D – NEPA Documents

10 15 5 5 5 5 5 5 5 5	0 TASK											CIEVA			
Subrotal Houry Rate S S S S S	policy of party and party	1 - PROJECT MANAGEMENT													
10 13 15 15 15 15 15 15 15		eeting - Documents	2				5	5							1000000
Subtotale Direct		lan		10			15		2						Γ
Subtotal Houry Rate Se6 Se8		ct Schedule (7-mo update)		10			25								Γ
Subtotal Direct Labor		ess Reports (7x)		20			10		10						T
Subtotal Hours		ings and Coordination (7mo x 2mtg)		09			30		30						Γ
Subtotal Hours Subtotal Hours From Subtotal Hours Subtotal Direct Labor From Subtotal Direct Labor Subtotal Direct Labor From From From Subtotal Direct Labor From From From From From From From From															
Subtorial Hours 2 105 6 85 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55 55															
Subtortal Direct Labor \$160 \$6,625 \$19 \$120 \$150	_	Subtotal Hours	2		0	0	85	5	42	0	0	0	239		
Subtoral Direct Labor \$160 \$6,825 \$50 \$1,955 \$160		Hourly Rate	\$80		\$65	\$35	\$23	\$32	\$15	\$45	\$27	\$65			
SS SS SS SS SS SS SS S		Subtotal Direct Labor	\$160		0\$	0\$	\$1,955	\$160	\$630	\$0	0\$	\$0	\$9,730		
Substitute Sub	TOTAL	L HOURS TASKS A-H	30, 30, 50		No. of the last of	Santabo and the second	10 Sec. 10 Sec	and the day of the state of the	Contraction of the contraction o	BECOMMON STREET, BUT	And the state of t	239			INCIN CO
## \$9730	TOTAI	L DIRECT LABOR										\$9,730			Τ
\$8,730	OVER	HEAD AT 145%					\$9,730	×	145%			\$14,109			
% \$13,839 + \$26,222 X SUBTOTAL \$26,222 + \$1,093 = \$27,316 X SUBTOTAL CLO%) SUBTOTAL CLO%	PROFI	IT AT 10%	\$9,730	+	\$14,109	ii	\$23,839	×	10%			\$ 2,384			
\$1,093 \$27,316 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000	GUAN	A GRT AT 4.17%	\$23,839		\$2,384	H	\$26,222	×	4.17%			\$ 1,093			
Cl0% SUBTOTAL Cl0%		SUBTOTAL	\$26,222		\$1,093	ı	\$27,316					\$27,316		\$ 27.	27,316
Cl0% SUBTOTAL Club M GRT AT 4.17% Subtotal M GRT AT 4.17%															
(10%) SUBTOTAL 10% GUAM GRT AT 4.17% 10% SUBTOTAL 10% GUAM GRT AT 4.17% 10% SUBTOTAL - SUBCONSULTANTS 10% Size - 8.5x11) 200 5 Size - 8.5x11) 50 50.15 Size - 11x17) 10% 5 50.15 Substotal 0 5 50.15 SUBTOTAL 0 5 5 5 GUAM GRT AT 4.17% 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 <td>1 SUBC</td> <td>ONSULTANTS</td> <td></td>	1 SUBC	ONSULTANTS													
(10%) SUBTOTAL <t< td=""><td></td><td>ey Consultants</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\$ 9,173</td><td></td><td></td></t<>		ey Consultants											\$ 9,173		
(10%) SUBTOTAL 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\$ 5,000</td><td></td><td></td></t<>													\$ 5,000		
(10%) SUBTOTAL 6 GUAM GRT AT 4.17% 6 SUBTOTAL - SUBCONSULTANTS Sets Unit Cost Subtotal size - 8.5x11) Sobsets Sets Unit Cost \$150 size - 8.5x11) Sobsets \$0.15 \$150 size - 1x17) 100 5 \$0.15 \$150 size - 11x17) 100 5 \$0.50 \$250 - 24x36) 0 \$1.00 \$0 \$1.00 \$0 SUBTOTAL 0 \$1.00 \$1.00 \$0 \$1.00 \$0 SUBTOTAL - DIRECT EXPENSES SUBTOTAL - DIRECT EXPENSES Substance of the control of the	_												ľ		F
SUBTOTAL SUBTOTAL CUBROTAL CUBROTAL <th< td=""><td>_</td><td>ub Admin Fee (10%)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\$ 1,417</td><td></td><td>= `</td></th<>	_	ub Admin Fee (10%)											\$ 1,417		= `
GUAM GRT AT 4.17% GUAM GRT AT 4.17% COUNTY		SUBTOTAL											\$ 15,590		χł
SUBTOTAL - SUBCONSULTANTS Sets Unit Cost Subtotal size - 8.5x11) 200 5 \$0.15 \$150 pdates (8-mos) 10 5 \$0.15 \$75 ize - 11x17) 100 5 \$0.15 \$75 ize - 11x17) 0 0 \$1.00 \$0 24x36) 0 0 \$1.00 \$0 SUBTOTAL 0 \$1.00 \$1.00 \$0 GUAM GRT AT 4.17% 0 0 \$1.00 \$1.00 SUBTOTAL - DIRECT EXPENSES 0 0 0 0 0		GUAM GRT AT 4.17%											\$ 650		Դi
size - 8.5x11) Pages Sets Unit Cost Subtotal ipdates (8-mos) 10 5 \$0.15 \$150 ize - 11x17) 100 5 \$0.15 \$75 ize - 11x17) 100 5 \$0.15 \$75 - 24x36) 0 0 \$1.00 \$0 SUBTOTAL 0 \$1.00 \$0 GUAM GRT AT 4.17% 0 \$1.00 \$1.00 \$0 SUBTOTAL - DIRECT EXPENSES 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10		SUBTOTAL - SUBCONSULTANTS											\$ 16,240	\$	16,24
pages Sets Unit Cost Subtotal size - 8.5x11) 200 5 \$0.15 \$150 pdates (8-mos) 10 50 \$0.15 \$75 ize - 11x17) 100 5 \$0.50 \$250 24x36) 0 0 \$1.00 \$0 SUBTOTAL 0 \$1.00 \$0 GUAM GRT AT 4.17% 0 \$1.00 \$0 SUBTOTAL - DIRECT EXPENSES 0 \$1.00 \$0															it
Reproduction Pages Sets Unit Cost Subtodal Documents (Letter Size - 8.5x11) 200 \$ 60.15 \$ 150 Schedule - Report Updates (8-mos) 10 50 \$ 60.15 \$ 75 Drawings (Tabloid Size - 11x17) 0 0 \$ 61.00 \$ 50.50 \$ 5.50 CD SUBTOTAL 0 \$ 1.00 \$ 60 \$ 60 \$ 60 CD SUBTOTAL - DIRECT EXPENSES \$ 1.00 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60	2 DIREC	CT EXPENSES													
unments (Letter Size - 8.5x11) 200 5 \$0.15 \$ edule - Report Updates (8-mos) 10 50 \$0.15 wings (Tabloid Size - 11x17) 0 5 \$0.50 \$ wings (Full Size - 24x36) 0 0 \$1.00 SUBTOTAL 0 \$1.00 \$1.00 SUBTOTAL - DIRECT EXPENSES \$1.00 \$1.00		iduction	Pages		Sets		Unit Cost	Subtotal	10%			Total			P
edule - Report Updates (8-mos) 10 50 \$0.15 wings (Tabloid Size - 11x17) 100 5 \$0.50 \$ wings (Full Size - 24x36) 0 \$1.00 \$1.00 SUBTOTAL 0 \$1.00 \$1.00 SUBTOTAL - DIRECT EXPENSES 0 \$1.00 \$1.00	Docur	ments (Letter Size - 8.5x11)	200		5		\$0.15	\$150	\$15			\$165			۲(
wings (Full Size - 1x17) 100 5 \$0.50 wings (Full Size - 24x36) 0 0 \$1.00 SUBTOTAL 0 0 \$1.00 GUAM GRT AT 4.17% 0 \$1.00 SUBTOTAL - DIRECT EXPENSES 0 \$1.00	Sched	iule - Report Updates (8-mos)	10		50		\$0.15	\$75	\$\$			\$83			1
wings (Full Size - 24x36) 0 \$1.00 SUBTOTAL 0 \$1.00 GUAM GRT AT 4.17% SUBTOTAL - DIRECT EXPENSES	Drawii	ngs (Tabloid Size - 11x17)	100		5		\$0.50	\$250	\$25			\$275			3
SUBTOTAL O \$1.00 SUBTOTAL GUAM GRT AT 4.17% SUBTOTAL - DIRECT EXPENSES O \$1.00 SUBTOTAL -	Drawir	ngs (Full Size - 24x36)	0		0		\$1.00	\$0	\$0			0\$			(
SUBTOTAL GUAM GRT AT 4.17% SUBTOTAL - DIRECT EXPENSES	8		0		0		\$1.00	\$	\$0			0\$			Pf
GUAM GRT AT 4.17% SUBTOTAL - DIRECT EXPENSES	1	SUBTOTAL										\$523	\$ 523		
SUBTOTAL - DIRECT EXPENSES	_	GUAM GRT AT 4.17%											\$ 22		<u>2</u>
		SUBTOTAL - DIRECT EXPENSES											\$ 544	\$	24 t

GWA TUMON HOTSPOTS SEWER REHABILITATION

						İ							
	TASK	Principal	Project Mgr Sr	Sr Engr	Staff Engr Jr Engr	Jr Engr	CAD	Clerical	PLS	Survey Tech	Survey Crew	Total Hours	Total Cost
2.0	2.0 TASK 2 - DATA RESEARCH												
⋖	A Data Research with GWA - B&C		40			40	10	10					
В													
Ju													
	Subtotal Hours	0	40	0	0	40	10	10	0	0	0	100	
	Hourly Rate	\$80	\$9\$	\$65	\$35	\$21	\$32	\$15	\$45	\$27	\$65		
	Subtotal Direct Labor	0\$	\$2,600	0\$	\$0	\$840	\$320	\$150	\$0	0\$	\$0	\$3,910	
	TOTAL HOURS TASKS A-E										100		
	TOTAL DIRECT LABOR										\$3,910		
	OVERHEAD AT 145%			_		\$3,910	×	145%			\$5,670		
	PROFIT AT 10%	\$3,910	+	\$5,670	II	\$9,580	×	10%			\$ 958		
	GUAM GRT AT 4.17%	\$9,580	+	\$958	11	\$10,537	×	4.17%			\$ 439		
	SUBTOTAL	\$10,537	+	\$439	11	\$10,977					\$10,977		\$ 10,977

Exhibit C 14 of 24)

Stanley Consultants Detry SEARCH (Archaeological) Geo-Engineering & Testing (Geotechnical) PCR Environmental TGE Sub Admin Fee (10%) SUBTOTAL GUAM GRT AT 4.17% SUBTOTAL - SUBCONSULTANTS								1770	
sting (Geotechnical) %) SUBTOTAL GUAM GRT AT 4.17% STOTAL - SUBCONSULTANTS								4 2,220	
sting (Geotechnical) %) SUBTOTAL GUAM GRT AT 4.17% STOTAL - SUBCONSULTANTS									
sting (Geotechnical) 3%) SUBTOTAL GUAM GRT AT 4.17% STOTAL - SUBCONSULTANTS									
								- - -	
									
SUBTOTAL GUAM GRT AT 4.17% stotal - Subconsultants								\$ 223	
GUAM GRT AT 4.17% stotal - subconsultants				-				\$ 2,451	
TOTAL - SUBCONSULTANTS								\$ 102	
								2	\$ 2,553
					<i>y</i>				
Pages Sets		Unit Cost	Subtotal	10%			Total		
Documents (Letter Size - 8.5x11) 500	æ	\$0.15	\$225	\$23			\$248		
200	3	\$0.50	\$300	\$30			\$330	İ	
Drawings (Full Size - 24x36)	1	\$1.00	\$25	\$3			\$28		
1	1	\$1.00	\$1	0\$			\$1	1	
SUBTOTAL							\$606	\$ 606	
GUAM GRT AT 4.17%								\$ 25	
SUBTOTAL - DIRECT EXPENSES								\$ 631	\$ 631
TASK Principal Project Mgr Sr Engr	Staff Engr	Jr Engr	CAD	Clerical	pl.S	Survey Tech	Survey	Total Hours	Total Cost
3.0 TASK 3 - FIELD INVESTIGATION									
10									
Pipe Cleaning Options Review & Report	30	20							
SV Road ROW - Topographic Survey & Mapping	2				5	40	24		
Highway Encroachment Permit	1 5	10							
	2 10	20							
	2	2							
2	25 80	80							
1	10								
								: 	
							- "		
Subtotal Hours 2 10 7	72 95	162	0	0	5	40	24	410	
Hourly Rate \$80 \$65 \$65	65 \$35	\$21	\$32	\$15	\$45	\$27	\$65		
Subtotal Direct Labor \$160 \$650 \$4,680	80 \$3,325	\$3,402	0\$	0\$	\$225	\$1,080	\$1,560	\$15,082	

4/7/2016 Page 4 of 9

Guam Waterworks Authority TG Engineers, PC

Z
ᅐ
×
\vdash
⋖
\vdash
๖
EHABI
₹
Ĭ
핈
虿
_
<u> </u>
3
-
ш
ᄶ
OTS 9
Ĕ
Ö
<u>a</u>
ᇬ
TSP(
Ö
¥
_
Z
ᅎ
¥
2
\supset
F
_
2
℥
ច
_

TOTAL DIRECT LABOR						1				24	
									- 21	\$15,082	
					\$15,082	×	145%		\$2	\$21,869	
	\$15,082	+	\$21,869	п	\$36,951	×	10%		<u>~</u>	3,695	
	\$36,951	+	\$3,695	11	\$40,646	×	4.17%		~	1,695	
SUBTOTAL	\$40,646	+	\$1,695	II	\$42,341				*	\$42,341	\$ 42,341
				+							
										\$ 17,433	3
										\$ 99,500	0
		-								\$95,000	0
										\$	
Geo-Engineering & Testing (Geotechnical)										5	
										.	
										\$ 21,193	3
SUBTOTAL										ľ	
GUAM GRT AT 4.17%								,			
SUBTOTAL - SUBCONSULTANTS										77	7 \$ 242.847
									-		
	Pages		Sets		Unit Cost	Subtotal	10%		Total	tai	
Documents (Letter Size - 8.5x11)	200		9		\$0.15	\$180	\$18			\$198	
Drawings (Tabloid Size - 11x17)	20		9		\$0.50	\$150	\$15			\$165	'
Drawings (Full Size - 24x36)	0		0		\$1.00	0\$	0\$			0\$	6
	0		0		\$1.00	0\$	0\$			0\$	
TGE Vehicle Use for Field Investigations	1		2		\$600.00	\$1,200	\$120	i	•1	\$1,320	
SUBTOTAL									•7	\$1,683 \$ 1,683	3
GUAM GRT AT 4.17%								_		0/ \$	0
SUBTOTAL - DIRECT EXPENSES										\$ 1,753	3 \$ 1,75
							3				
TASK	Principal	Project Mgr	Sr Engr	Staff Engr	Jr Engr	CAD	Clerical		Survey Crew	rey Total Hours	Total Cost
4.0 TASK 4 - HYDRAULIC ANALYSIS											
DELETED											
				•			•		-		

	-											
TASK	Principal	Project Mgr	Sr Engr	Staff Engr	Jr Engr	CAD	Clerical			Survey Crew	Total Hours	Total Cost
5.0 TASK 5 - DESIGN ALTERNATIVES REPORT												
A Task 2 Data List		2			10							
B Task 3 - Sum/Concl from Field Investigation		5		10								
C Task 4 - DELETED		0		0								
D Develop Design Alternatives		10		09	09							
E Construction Cost Estimates		5										
F Draft Report	2	5		40	40	20	10					
G Final Report		2		10	20	10	10					ļ
T												
Subtotal Hours		2 35	0	120	130	30	20	0	0	0	337	
Hourly Rate	e \$80	29\$	\$65	\$35	\$21	\$32	\$15	2	\$27	\$65		
Subtotal Direct Labor	160	52,275	0\$	\$4,200	\$2,730	096\$	\$300			0\$	\$10,625	
TOTAL HOURS TASKS A-I										337		
TOTAL DIRECT LABOR										\$10,625		
OVERHEAD AT 145%					\$10,625	×	145%			\$15,406		
PROFIT AT 10%	\$10,625	+	\$15,406	"	\$26,031	×	10%			\$ 2,603		
GUAM GRT AT 4.17%	\$26,031	+ +	\$2,603	ıı	\$28,634	×	4.17%					
SUBTOTAL	L \$28,634	+	\$1,194	11	\$29,828					\$29,828		\$ 29,828
5.1 SUBCONSULTANTS												
A Stanley Consultants											2,518	
B Detry											•	
C SEARCH (Archaeological)											3,500	
D Geo-Engineering & Testing (Geotechnical)											3,500	K †
E PCR Environmental								:			2,500	
F TGE Sub Admin Fee (10%)											1,202	D
SUBTOTAL	1										\$ 13,220	
GUAM GRT AT 4.17%	%											
SUBTOTAL - SUBCONSULTANTS	Š									\$	13,771	\$ 13,74
												(
5.2 DIRECT EXPENSES												
A Reproduction	Pages		Sets		Unit Cost	Subtotal	10%			Total		7
B Documents (Letter Size - 8.5x11)	300		9		\$0.15	\$270	\$27			\$297		
C Drawings (Tabloid Size - 11x17)	25	2	9		\$0.50	\$75	\$8			\$83		O
D Drawings (Full Size - 24x36)		0	0		\$1.00	0\$	0\$			0\$		
E CD		1	1		\$1.00	\$1	\$0			\$1		Z
SUBTOTAL										\$381	\$ 381	4
GUAM GRT AT 4.17%	9										\$ 16)
SUBTOTAL - DIRECT EXPENSES	S									\$	396	\$ 396

Total Cast	3503 (8)														57,271		E	X		T 	DI	I	(F	(41,069	B		DI	7	2	4)		i	1,092	488,630		
+o ₊							2		0	_					\$			L			_	_				\$			L	L			_			S	\$ 4		
Total House							652		\$20,400								4,295		15,000	12,000		2,000	3,130	\$ 39,425	\$ 1,644	\$ 41,069								\$ 1,048	\$	\$ 1,092		\$ 221,070	\$ 267,560
Survey	Crew						0	\$65	0\$	652	\$20,400	\$29,580	\$ 4,998	\$ 2,293	\$57,271														Total	099\$	\$352	\$35	\$1	\$1,048			9-	1-6	9
							0	\$27																														TOTAL LUMP SUM TASKS 1	TASKS 1 - 6
							0	\$45																													GRAND TOTAL TASKS 1	. LUMP SU	TOTAL T&M TASKS 1
Clerical							0	\$15	Ş			145%	10%	4.17%															10%	\$60	\$32	\$3	\$0				GRA	TOTAI	2
CAD			80	120	09		260	\$32	\$8,320			×	×	×															Subtotal	009\$	\$320	\$32	\$1						: :
Ir Engr	i.		40	120	09		220	\$21	\$4,620			\$20,400	\$49,980	\$54,978	\$57,271													が成立を続け	Unit Cost	\$0.15	\$0.50	\$1.00	\$1.00						
Staff Engr			40	09	30		130	\$35	\$4,550				"	"	"																								
Sr Engr							0	\$65	0\$				\$29,580	\$4,998	\$2,293														Sets	20	20	1	1						
Project Mar			10	10	10		30	\$65	\$1,950				+	+	+																								
Principal		•	2	5	5		12	\$80	096\$				\$20,400	\$49,980	\$54,978														Pages	200	32	32	1						
TASK		6.0 TASK 6 - DESIGN DOCUMENTS	30% Design & Documents (8-dwgs)	90% Design & Documents (12-dwgs)	100% Design & Documents (12-dwgs)		Subtotal Hours	Hourly Rate	Subtotal Direct Labor	TOTAL HOURS TASKS A-I	TOTAL DIRECT LABOR	OVERHEAD AT 145%	PROFIT AT 10%	GUAM GRT AT 4.17%	SUBTOTAL	SUBCONSULTANTS	Stanley Consultants		SEARCH (Archaeological)	Geo-Engineering & Testing (Geotechnical)	PCR Environmental	RLB Cost Estimating	TGE Sub Admin Fee (10%)	SUBTOTAL	GUAM GRT AT 4.17%	SUBTOTAL - SUBCONSULTANTS		6.2 DIRECT EXPENSES	Reproduction	Documents (Letter Size - 8.5x11)	Drawings (Tabloid Size - 11x17)	Drawings (Full Size - 24x36)		SUBTOTAL	GUAM GRT AT 4.17%	SUBTOTAL - DIRECT EXPENSES			
		6.0 TA	A 309	B 90%	C 100	Д	Н			₽	10	∂	¥	GU,		6.1 SUI	A Stai	B Detry	C SEA	D Gec	E PCF	F RLB	G TGE					6.2 DIR	A Rep	B Doc	C Dra	D Dra	E CD	Н	\dashv			_	

TASK	ost																	11,342	W. C. C. C.		7	T	וון	p	π	Γ	F	46.4			P	Γ	Z	4)		[
TASK 7 - 180 PAMASE SERVICES Secretaria TASK 7 - 180 PAMASE SERVICES Secretaria TASK 7 - 180 PAMASE SERVICES Secretaria S	Total Cost]						
TASK SURVINES STATES STATES TOTAL DESCRIPTION SURFICIOLAL DESCRIPTION SURFICIONAL DESCRIPTION	Total Hours									86		\$4,040																4,922					i				
FASK 7 - BID PHASE SERVICES										0	\$65	0\$	86	\$4,040	\$5,858	l		\$11,342			<u> </u>	\$	\$	\$	\$	_	₩.	\$	為	Total	099\$	\$132	\$13	\$1		\$	
TASK 7 - BID PHASE SERVICES Project Ngy S Fry 2 Solit Eny 1 Eny CAD Control										0	\$27																					i					
TASK THE TREATH THE SERVICES THE Review Address THE										0	\$45																										İ
TASK	Clerical			15						15	\$15	\$225			145%	10%	4.17%													10%	\$60	\$12	\$1	0\$			
TASK 7 - BID PHASE SENVICES Principal Project May St Engy Shaff Engy 1, 1	CAD			15						15	\$32	\$480			×	×														Subtotal	\$600	\$120	\$12	\$1			
TASK	Jr Engr			25											\$4,040	\$68'6\$	\$10,888	\$11,342												Unit Cost	\$0.15	\$0.50	\$1.00	\$1.00			
TASK 7 - BID PHASE SERVICES Principal Project Mgg State	Staff Engr									0	\$35	\$0				"	"	"																			
Project M	Sr Engr									0	\$65	0\$				\$5,858	066\$	\$454		-										Sets	20	20	1	1			
Principal TASK 7 - BID PHASE SERVICES Pre-Bid Meeting RFI Reviews - Addenda Bid Evaluation Conference Bid Tabulations Recommendation for Award Recommendation for Award Bid Tabulations Recommendation for Award Recommendation for Award Subtotal Hours Bid Tabulations Recommendation for Award Bid Tabulations Recommendation for Award Subtotal Hours Bid Tabulations Subtotal Hours Bid Tabulations Subtotal Hours Bid Tabulations Subtotal Hours Bid Tabulation Subtotal Hours Bid Tabulation Subtotal Hours Bid Tabulation Subtotal Hours Bid Tabulation Subtotal Hours Bid Tabulation Subtotal Hours Bid Tabulation Subtotal Hours Bid Tabulation Subtotal Hours Bid Tabulation Bid Tabulation Subtotal Hours Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bid Tabulation Bi	Project Mgr		2	25	2	5	2			42	\$65	\$2,730				+	+	+																			
Pre-Bid Meeting RFI Reviews - Addenda Bid Evaluation Conference Bid Tabulations Recommendation for Award TOTAL HOURS TASKS A-I TOTAL DIRECT LABOR OVERHEAD AT 145% PROFIT AT 10% GUAM GRT AT 4.17% GUAW GRT AT 4.17% SLARCH (Archaeological) Geo-Engineering & Testing (Geotech PCR Environmental TGE Sub Admin Fee (10%) SUBTOTAL - SUBR SUBTOTAL - SUBR Beproduction Documents (Letter Size - 8.5x11) Drawings (Full Size - 24x36) CD										1	\$80	\$80				\$4,040	868'6\$	\$10,888												Pages	200	12	12	1			
TASK 7 - BID PHASE SERVIC Pre-Bid Meeting RFI Reviews - Addenda Bid Evaluation Conference Bid Tabulations Recommendation for Award TOTAL DIRECT LABOR OVERHEAD AT 145% PROFIT AT 10% GUAM GRT AT 4.17% GUAM GRT AT 4.17% SLANCONSULTANTS STANIEY Consultants Detry SEARCH (Archaeological) Geo-Engineering & Testing (GPCR Environmental TGE Sub Admin Fee (10%) BIRECT EXPENSES Reproduction Documents (Letter Size - 8.5X) Drawings (Full Size - 24x36) CD										Subtotal Hours	Hourly Rate	ibtotal Direct Labor						SUBTOTAL					technical)			SUBTOTAL	JAM GRT AT 4.17%	SUBCONSULTANTS							SUBTOTAL	JAM GRT AT 4.17%	
Detry Documer CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD Drawin CD	TASK	7 - BID PHASE SERVICES	d Meeting	views - Addenda	aluation Conference	bulations	nmendation for Award					SL	HOURS TASKS A-I	L DIRECT LABOR	HEAD AT 145%	T AT 10%	1 GRT AT 4.17%		ONSHITANTS	v Consultants		.H (Archaeological)	ngineering & Testing (Geo	nvironmental	ub Admin Fee (10%)		פו	SUBTOTAL - :	T EXPENSES	duction	nents (Letter Size - 8.5x11)	ngs (Tabloid Size - 11x17)	ngs (Full Size - 24x36)			าง	
		0 TASK	A pre-Bi	B RFIRe	C Bid Ev	D Bid Ta	E Recon	F	ڻ ق				TOTA	TOTA	OVER	PROFI	GUAN		Odl 13	Stanle	$\overline{}$	C SEARC	D Geo-E	E PCR E	F TGE SI				2 DIREC	A Repro	Docur	Drawi	Drawi	0			

Total Cost																	54,056				X		П	D	π	7	7	11,450				P		P	4	7		840	
									5		2						55			Ĺ						L	_	5			L					_		\$	L
Total Hours				į					565		\$19,255				•					\$ 10,000	- \$	\$	- \$	- \$	\$ 1,000	\$ 11,000		\$ 11,459								\$ 806	\$ 34	\$ 840	
Survey Crew									0	\$65	0\$	292	\$19,255	\$27,920	\$ 4,717	\$ 2,164	\$54,056					;									Total	099\$	\$132	\$13	\$1	\$ 908\$		Ų,	
									0	\$27																													
									0	\$45																	!												
Clerical			40						40	\$15	\$600			145%	10%	4.17%															10%	09\$	\$12	\$1	0\$				
CAD		40	40	09		10			150	\$32	\$4,800			×	×	×													:		Subtotal	\$600	\$120	\$12	\$1				
Jr Engr		40	80	09	10	15			202	\$21	\$4,305			\$19,255	\$47,175	\$51,892	\$54,056														Unit Cost	\$0.15	\$0.50	\$1.00	\$1.00				
Staff Engr		20		30					20	\$32	\$1,750				=	It	=																						
Sr Engr									0	\$9\$	\$0				\$27,920	\$4,717	\$2,164														Sets	20	20	1	1				
Project Mgr		10	80	10	5	15			120	\$9\$	\$7,800				+	+	+																						
Principal									0	\$80	0\$				\$19,255	\$47,175	\$51,892														Pages	200	12	12	1				
TASK	8.0 TASK 8 - CONSTRUCTION PHASE SERVICES	Ð	Field Assistance & Progress Meetings (8-mos)	Review Submittals, RFI's, Schedule, CO's, etc.	nch-list	s			Subtotal Hours	Hourly Rate	Subtotal Direct Labor	A-I					SUBTOTAL					cal)	esting (Geotechnical)		10%)	SUBTOTAL	GUAM GRT AT 4.17%	SUBTOTAL - SUBCONSULTANTS				te - 8.5x11)	e - 11x17)	24x36)		SUBTOTAL	GUAM GRT AT 4.17%	SUBTOTAL - DIRECT EXPENSES	
	TASK 8 - CONSTRUC	IFC Documents - Issue	Field Assistance & Pro	Review Submittals, RF	Final Inspection & Punch-list	Final Record Drawings						TOTAL HOURS TASKS A-I	TOTAL DIRECT LABOR	OVERHEAD AT 145%	PROFIT AT 10%	GUAM GRT AT 4.17%			SUBCONSULTANTS	Stanley Consultants	Detry	SEARCH (Archaeological)	Geo-Engineering & Testing (Geotechnical)	PCR Environmental	TGE Sub Admin Fee (10%)			ns		8.2 DIRECT EXPENSES	Reproduction	Documents (Letter Size - 8.5x11)	Drawings (Tabloid Size - 11x17)	Drawings (Full Size - 24x36)	CO			Ÿ	
	8.0	⋖	∞	U	□	w	և	ŋ										9		<	<u>-</u>	u		"	ш					8.2	⋖								

Exhibit C (21 of 24)

GWA TUMON HOTSPOTS SEWER REHABILITATION

Guam Waterworks Authority TG Engineers, PC

			_										
	\$ 83,459			\$ 488,630	\$ 572,089								
		\$17,104	\$66,355										
			TASK 8		OJECT							ax.	
	SKS 7 - 8	LUMP SUM TASK 7	TIME & MATERIALS TASK 8	SKS 1 - 6	GRAND TOTAL - PROJECT					SR Tax.		p and GR T	ax.
	TOTAL TASKS 7 - 8	LUMP SUI	TIME & N	TOTAL TASKS 1 - 6	GRAND T					arkup and (d GR Tax.	10% marku	p and GR T
										a daily T&M basis to cover actual costs with 10% markup and GR Tax.	'&M basis to cover actual costs with 10% markup and GR Tax.	lled on a Task T&M basis to cover actual costs with 10% markup and GR Tax.	10% marku
									<u></u>	tual costs v	ts with 10%	over actual	costs with
									on the tot	to cover ac	r actual cos	A basis to c	over actual
									and GR Tax	T&M basis	sis to cover	a Task T&∿	l basis to co
									% markup	on a daily	ily T&M ba	e billed on	a Task T&№
									d with a 10	ld be billed	led on a da	ıdget will b	e billed on
									ours worke	udget wou	ould be bil	Services bu	idget will be
									billed for h	ontractor	or budget v	otechnical	Services bu
									ces will be	g / CCTV C	s Contracto	ical and Ge	n Support
:									tional Servi	ine cleaning	Flow Bypass	Archaeolog	Constructio
									Note 1 - Additional Services will be billed for hours worked with a 10% markup and GR Tax on the total.	Note 2 - The line cleaning / CCTV Contractor budget would be billed on	Note 3 - The Flow Bypass Contractor budget would be billed on a daily T	Note 4 - The Archaeological and Geotechnical Services budget will be bil	Note 5 - The Construction Support Services budget will be billed on a Task T&M basis to cover actual costs with 10% markup and GR Tax.
									Ň	ž	ž	Ň	ž

TUMON HOT SPOTS SEWER LINE REHABILITATION AND REPLACEMENT

EXHIBIT A - FEE PROPOSAL / March 23, 2016 STANLEY CONSULTANTS, INC.

			_								
TASK DESCRUPTION	Principal Sprincipal Stump	Project Manager Deb Mathias	Sr. Wastewater Engineer	Wastewater Engineer Jeremy Reinier	Hydraulic Engineer Candice Bark	Electrical Engineer Greg Reynolds	Electrical Designer Paolo Torres	Project Coordinator Aja Reyes	eviterinimbA Administration	TOTAL	TOTAL
HOURLY LABOR RATES =>	\$205.00	\$161.46	\$150.00	\$116.96	\$116.96	\$161.46	\$84.00	\$75.00	\$60.00		
PROJECT MANAGEMENT	原 斯 · · · · · · · · · · · · · · · · · ·	THE CHARLES	10 min 15								A STATE OF THE PARTY OF
Mondaly progress reports (7 from 3/2016 through 9/15/2016) Bi-Weekly conference calls (3/2016 through 9/2016)	4	Σ <u>4</u>		4						12	\$1,759.50
Local Activity Coordination								32		32	\$2,400.00
ct Procedures/Emergency Response Manual		4	l c	4	í	(c	i i	,	8	\$1,113.66
	\$820.00	\$4,197.96	\$0.00	\$1,754.33	\$0.00	\$0.00	\$0.00	\$2.400.00	00.0\$	*	\$9,172.29
TASK 2 DATA RESEARCH							3			7.7. 3	
Document Review				80						16	\$2,227.32
										0	80.05
										0	\$0.00
Task 2 Subtotal	0		0	8	0	0	0	0	0	16	\$2,227.32
	\$0.00	\$1,291.68	\$0.00	\$935.64	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$2,227.32
TASK 3 FIELD INVESTIGATION											
Fump Station Evaluation and Testing											
rg - Erecorcal Only (on-Island)				0 0		20					\$1,291.68
ata collection and capacity calculations (REMOVED)				,						0	\$0.00
3 Pump station wet well drawdown test (REMOVED)										0	\$0.00
Pump station electrical evaluation						4				4	\$645.84
		8		16		4			8	36	\$4,288.80
Task 3a Subtotal	0		0	16	0	9	0	0	80	48	\$6,226.32
Flow Monitorine (BEMOVED)	\$0.00	89.167,13	\$0.00	\$1,871.28	\$0.00	\$2,583.36	\$0.00	\$0.00	\$480.00		\$6,226.32
III (AEMOVED)		. 141	September September 1				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			c	0000
Task 3b Subtotal	0	0	0	°	°	c	c	c	c	•	00.00
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00
CCTV		STATE STREET	THE CONTRACTOR	But the same of the		Manager Street	TO SERVE THE PARTY OF			世代の 日本の 日本の 日本の 日本の 日本の 日本の 日本の 日本の 日本の 日本	THE SALE SPECIFICATION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P
spection forms and rehab alternatives and											
recommendations		4		12						16	\$2,049.30
Prepare summary report		4		10					88	22	\$2,295.39
Each 3c Cultional	c	α		2	c				۰		\$0.00
morono do usa l	\$0.00	\$1.291.68	\$0.00	\$2.573.01	\$0.00	\$0.00	00.00	00 0\$	¢480 00	8	24,244,09
Manhole Inspections					STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY		高温 の である			高级工程的	
Keview mannoie inspection forms and renab atternatives and		ζ.		ţ						ţ	0000
2 Prepare summary report		4		101					œ	22	\$2,245,30
										0	\$0.00
Task 3d Subtotal	0		0	22	0	0	0	0	8	38	\$4,344.69
	\$0.00	\$1,291.68	\$0.00	\$2,573.01	\$0.00	\$0.00	\$0.00	\$0.00	\$480.00		\$4,344.69
Provide Consultation recarding Field Operations	No. of the second	4	W. STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA	16	Service Control	THE PERSON NAMED IN	A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR	ATTENDED TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN	Section of the section of	00	C+ C+2 C+
										3	\$4,716,24
Task 33 Subtotal	0	4	0	16	0	0	0	°	0	50	\$2.517.12
	\$0.00	\$645.84	\$0.00	\$1,871.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$2,517.12
		o'C	,	,	,	ļ	ľ	(1		
Tack 3 Subtrate	2000	97	,	0	,	10	0	5	- 44	144	\$17,432.82
		44 520 88 I	00 0 ⊅	22 222 23	\$0.00	47 582 36	00 O#		41 440 00		CO CCT P14

Exhibit C (22 of 24)

Exhibit C (23 of 24)

EXHIBIT A - FEE PROPOSAL / March 23, 2016 STANLEY CONSULTANTS, INC.

TUMON HOT SPOTS SEWER LINE REHABILITATION AND REPLACEMENT

1												
			STAFF HOURS								TASK	
Fask Number	TASK DESCRIPTION	Principal Qmu32 brefizi8	Project Manager Deb Mathias	Sr. Wastewater Engineer	Wastewater Engineer Jeremy Reinier	Hydraulic Engineer Candice Bark	Electrical Engineer Greg Reynolds	Electrical Designer Paolo Torres	Project Coordinator Aja Reyes	evはstrinimbA JnefelezA	TOTAL	TOTAL
	HOURLY LABOR RATES =>	\$205.00	\$161.46	\$150.00	\$116.96	\$116.96	\$161.46	\$84.00	\$75.00	\$60.00		
	Tack 4 Submta		Ů	c	-	c	c				١	1
		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	00 03	00 0\$	00 00	,	9
								200	200	20.00		000
SK	SK S DESIGN ALTERNATIVES REPORT	SHERE STATISHED	医基础 医肠周围		BURLE STERR		III SAFET AND SAFERING IN		The state of the state of	200 To 100 はのはいないのか	できる 本の はない はない	
	Incorporate pump station evaluation into report		2		8						10	\$1,258.56
ام	Incorporate hydraulic analysis into report		2			8					10	\$1,258.56
ᆈ											0	\$0.00
	Task 5 Subtotal		4	0	8	8	0	0	0	0	70	\$2,517.12
١		\$0.00	\$645.84	\$0.00	\$935.64	\$935.64	\$0.00	\$0.00	\$0.00	\$0.00		\$2,517.12
				0.2000000000000000000000000000000000000								
SK	ISK 6 DESIGN DOCUMENTS		多性的多数指指的	September 1		TO SALES SERVICES SERVICES		Residence of the second		PER STATE STATE OF	THE PERSON	
æ	30% Review		1		4		2				7	\$952.20
۵	90% Review		2		9		4				12	\$1,670.49
ᆈ	100% Review		2		9		4				12	\$1,670.49
											0	\$0.00
											0	\$0.00
	Task 5 Subtotal		5	0	16	0	10	0	0	0	31	\$4,293.18
		\$0.00	\$807.30	\$0.00	\$1,871.28	\$0.00	\$1,614.60	00'0\$	00'0\$	\$0.00		\$4,293.18
	TOTAL	4	7.1		123	80	26	0	32	24	288	\$35.642.73
		\$820.00	\$11,463.66	\$0.00	\$14,385.47	\$935.64	\$4,197.96	\$0.00	\$2,400.00	\$1,440.00		\$35,642.73
1								Total Labor		1		\$35,642.73
	OTHER DIRECT COCTS							(inclusive of OH	and Profit)			
	None											
1	SUBCONSULTANTS										_	
	None											
П	Subtotal											\$35,642.73
	GRT							GRT Paid by	GRT Paid by TG Engineers	4.17%		
	Total											\$ 35,642.73

Exhibit C (24 of 24)

DETRY CORPORATION

April 13, 2016

Phone: (671)647-0808

Email: torg@tg-engr.com

Fax: (671)647-0886

TG Engineers, PC 125 TJ Crisostomo Street Sunny Plaza, Suite 206 Tamuning, Guam O 671-647-0808

Attn: Mr. Tor Gudmundsen, President

Re: TUMON HOTSPOTS SEWERLINE REHABILITATION AND REPLACEMENT PROJECT

S16-001-EPA - FEE PROPOSAL

Proposal for Line Cleaning, Manhole Inspection and Video and Reporting Services.

	Quantity	Unit Cost	Total
Mobilization	Lump Sum		-0-
Line Cleaning and CCTV Inspections	2,125 LF 2,125 LF	\$865.00 Per Hour	\$86,500.00
Manhole Inspections (Level 2)	10 Manholes	\$300.00 Each	\$3,000.00
Traffic Control	15 Days	\$1,000.00 Per Day	\$15,000.00

PRELIMINARY ASSUMPTION:

- 1) SURCHARGED MHs WILL BE INSPECTED "AS IS" AS RECOMENDED BY NASSCO.
- 2) DETRY WILL NOT PROVIDE OR CONDUCT ANY GPS DATA COLLECTION.
- 3) GWA OR TGE WILL ASSIGN A FIRE HYDRANT THAT IS CLOSE BY TO REFILL THE COMBO. TRUCK'S HI-VELOCITY RESEVOIR.
- 4) ALL CLEANING WILL BE CONSIDERED AND BILLED FOR AS HEAVY CLEANING.
- 5) WHEN NEEDED, A BY PASS SYSTEM WILL BE IMPLEMENTED AND IN PLACE, PRIOR TO THE START OF HEAVY CLEANING AND CCTV WORK.