



GWA RESOLUTION NO. 22-FY2020

**RELATIVE TO THE APPROVAL OF CHANGE ORDER NO. 5 AND APPROVING
ADDITIONAL CONTINGENCY FUNDS FOR THE ROUTE 4 RELIEF SEWERLINE
REHABILITATION AND REPLACEMENT PROJECT S15-006-EPA**

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, the CCU approved Resolution 40-FY2017 (Exhibit A) and GWA subsequently awarded a construction contract (No. 796 OS) to InsituForm Inc. for cured in place pipe (CIPP) installation in an existing sewer main on Route 4 and Route 1 in Hagatna for the Route 4 Relief Sewerline Rehabilitation and Replacement Project (No. S15-006-EPA) in the amount of Three Million Nine Hundred Ninety Eight Thousand Six Hundred Eighty Eight Dollars (\$3,998,688.00) with a ten percent (10%) contingency of Three Hundred Ninety Nine Thousand Eight Hundred Sixty Eight Dollars and Eighty Cents (\$399,868.80); and

WHEREAS, the project is funded by EPA grant funds and the contingency is funded by System Development Charge funds; and

WHEREAS, there have been three Change Orders and a fourth Change Order currently in process totaling Three Hundred Forty-Eight Thousand Six Hundred Eighty-Two Dollars and Twenty-Five Cents (\$348,682.25); and

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1 **WHEREAS**, there are funds remaining in the contract contingency of Fifty-One
2 Thousand One Hundred Eighty-Six Dollars and Fifty-Five Cents (\$51,186.55) (see Exhibit B);
3 and
4

5 **WHEREAS**, a significant amount of debris, rocks, sand, and rubbish was encountered in
6 the existing sewer main during the execution of the contractual scope of work by the contractor
7 that required additional cleaning by the contractor in order to install the CIPP as required in the
8 contract. This amount of additional cleaning was not anticipated and is considered extra work as
9 provided for in the contract documents (see Exhibit C). The additional cost of this added scope
10 of work is One Hundred Sixty-Five Thousand Two Hundred Forty-Five Dollars and Twelve
11 Cents (\$165,245.12) and shall be added to the InsituForm contract through Change Order 5,
12 pending approval by GWA; and
13

14 **WHEREAS**, in order to execute Change Order 5, the contract contingency amount must
15 be increased by One Hundred Fourteen Thousand Fifty-Eight Dollars and Fifty-Seven Cents
16 (114,058.57); and
17

18 **WHEREAS**, it is anticipated that an additional Change Order will be required to address
19 sealing four sewer service lines that were not included in the original contract and were
20 discovered during the cleaning operation. The sealing is necessary to prevent inflow and
21 infiltration under the newly applied CIPP. A cost proposal is anticipated to be submitted soon
22 and is expected to be approximately Seventy-Five Thousand Dollars (\$75,000); and
23

24 **WHEREAS**, sealing of the four sewer service lines is the last remaining work to be done
25 under the referenced contract with InsituForm; and
26

27 **WHEREAS**, GWA will negotiate fees with InsituForm to ensure that necessary costs are
28 justifiable and reasonable; and
29

30 **WHEREAS**, there are sufficient SDC funds to fund Change Order 5 and a subsequent
31 Change Order to address the sealing of four sewer service lines;

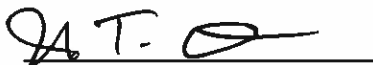
1 **NOW BE IT THEREFORE RESOLVED**, the Consolidated Commission on Utilities
2 does hereby approve the following:

- 3 1. The recitals set forth above hereby constitute the findings of the CCU.
4 2. The CCU finds that additional contingency funds in the amount of Two
5 Hundred Thousand Dollars (\$200,000.00) are needed, warranted, and justified
6 to complete work under the contract referenced herein.
7 3. The CCU hereby authorizes the expenditure of up to an additional Two
8 Hundred Thousand Dollars (\$200,000.00) for Change Order 5 and anticipated
9 Change Order 6 under the subject contract and project.
10 4. The CCU hereby further authorizes the management of GWA to execute
11 Change Order 5 (Exhibit C) and a subsequent Change Order for sealing four
12 sewer service lines.

13
14 **RESOLVED**, that the Chairman certified, and the Board Secretary attests to the adoption
15 of this Resolution.

16
17 **DULY AND REGULARLY ADOPTED**, this 28th day of April 2020.

18
19 Certified by:

20
21 

22 **JOSEPH T. DUENAS**

23 Chairperson

24 Attested by:

25
26 

27 **MICHAEL T. LIMTIACO**

28 Secretary

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31 //

32 //

SECRETARY'S CERTIFICATE

I, **Michael T. Limtiaco**, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

AYES: 5

NAYS: 0

ABSTENTIONS: 0

ABSENT: 0

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Exhibit A



CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

RESOLUTION NO. 40-FY2018

RELATIVE TO CONTRACTS APPROVAL FOR THE ROUTE 4 RELIEF SEWER LINE REHABILITATION AND REPLACEMENT PROJECT S15-006-EPA

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 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 over 4,200 linear feet of gravity sewer line along Route 4 from the bottom of the hill in Agana to Route 1, and along Route 1 to the Agana Main Pump Station; and

WHEREAS, the gravity sewer line noted above has a section that has been inactive since its original installation due to incomplete construction work, and sections that are in need of repair due to high infiltration and inflow (I/I), and the intent of this project is to rehabilitate, repair or replace these sections along with associated roadway surface improvements; and

WHEREAS, GWA and USEPA agree that efforts to rehabilitate, repair or replace these sewer lines are necessary to provide sufficient capacity, and properly maintain and operate the sewer collection system, and the first step in doing so is through scope of services that includes general civil engineering, geotechnical engineering, and archeological investigation for wastewater collection system evaluation, analysis and design; and

1 **WHEREAS**, in July 2015 GWA Management began the procurement process to find a
2 consulting engineering team to design the sewer rehabilitation and replacement, and via
3 Resolution No. 16-FY2016, approved by the CCU in January 2016, GWA Management was
4 authorized to enter into a contract with AECOM to design the sewer rehabilitation and
5 replacement; and

6
7 **WHEREAS**, in February of 2016 GWA Management entered into a contract with
8 AECOM to design the sewer rehabilitation and replacement, and in May of 2017 the final design
9 was completed; and

10
11 **WHEREAS**, on August 25, 2017, GWA advertised the Invitation to Bid (IFB-10-ENG-
12 2017) for the Route 4 Relief Sewer Line Rehabilitation and Replacement soliciting bid proposals
13 from experienced and responsive bidders to repair and/or replace segments of gravity sewer lines
14 and manholes subjected to I&I in the village of Hagatna, but ultimately GWA received no bids at
15 that time; and

16
17 **WHEREAS**, following the initial Invitation to Bid, GWA discussed with contractors the
18 challenges that may have prevented them from bidding, reviewed all the available information,
19 and split the contract into two separate parts, a Schedule A and a Schedule B; and

20
21 **WHEREAS**, on March 23, 2018, GWA advertised another Invitation to Bid (IFB-04-
22 ENG-2018) for the Route 4 Relief Sewer Line Rehabilitation and Replacement soliciting bid
23 proposals from experienced and responsive bidders to repair and/or replace segments of gravity
24 sewer lines and manholes subjected to I&I in the village of Hagatna; and

25
26 **WHEREAS**, this project consists of furnishing all labor, tools, equipment and materials,
27 necessary to install, replace, and repair sewer along Rt.4 and Rt.1, including coordination with
28 GWA Wastewater Operations, GWA Engineering, the Construction Manager, the project Design
29 Engineer, GWA's Program Management Office and the Department of Public Works; and

30
31 **WHEREAS**, IFB packages were obtained by multiple interested parties, from which
32 GWA received bid proposals from three (3) parties (SEE EXHIBIT A – Abstract of Bids) before

1 the bid proposal deadline, with one (1) party submitting a proposal for only Schedule A, one (1)
2 party submitting a proposal for only Schedule B, and one (1) party submitting a proposal for both
3 Schedule A and B; and
4

5 **WHEREAS**, the project Design Engineer, in conjunction with GWA, analyzed the bid
6 proposals received (SEE EXHIBIT B – Evaluation) on June 8, 2018 and determined that the bid
7 proposal submitted by ProPacific Builder Corporation (PPBC) (SEE EXHIBIT C – ProPacific
8 Bid) for Schedule A, and the bid proposal submitted by Insituform Technologies, LLC
9 (Insituform) (SEE EXHIBIT D – Insituform Bid) for Schedule B, were the lowest responsive and
10 responsible bids and met all the bid requirements set forth by GWA; and
11

12 **WHEREAS**, GWA Management finds both PPBC's bid proposal for Schedule A, and
13 Insituform's bid proposal for Schedule B acceptable; and
14

15 **WHEREAS**, for Schedule A, PPBC's bid proposal in the amount of Three Million Four
16 Hundred Seven Thousand Eight Hundred Forty-Eight Dollars (\$3,407,848.00), plus a ten percent
17 (10%) contingency of Three Hundred Forty Thousand Seven Hundred Eighty-Four Dollars and
18 Eighty Cents (\$340,784.80) to bring the authorized funding amount for Schedule A to a total of
19 Three Million Seven Hundred Forty-Eight Thousand Six Hundred Thirty-Two Dollars and
20 Eighty Cents (\$3,748,632.80); and
21

22 **WHEREAS**, for Schedule B, Insituform's bid proposal in the amount of Three Million
23 Nine Hundred Ninety-Eight Thousand Six Hundred Eighty-Eight Dollars (\$3,998,688.00), plus a
24 ten percent (10%) contingency of Three Hundred Ninety-Nine Thousand Eight Hundred Sixty-
25 Eight Dollars and Eighty Cents (\$399,868.80) to bring the authorized funding amount for
26 Schedule B to a total of Four Million Three Hundred Ninety-Eight Thousand Five Hundred
27 Fifty-Six Dollars and Eighty Cents (\$4,398,556.80); and
28

29 **WHEREAS**, GWA Management seeks CCU approval of PPBC's bid proposal plus the
30 10% contingency for Schedule A of Three Million Seven Hundred Forty-Eight Thousand Six
31 Hundred Thirty-Two Dollars and Eighty Cents (\$3,748,632.80), and Insituform's bid proposal
32 plus contingency for Schedule B of Four Million Three Hundred Ninety-Eight Thousand Five

1 Hundred Fifty-Six Dollars and Eighty Cents (\$4,398,556.80), to bring the total authorized
2 funding amount to Eight Million One Hundred Forty-Seven Thousand One Hundred Eighty-Nine
3 Dollars and Sixty Cents (\$8,147,189.60); and
4

5 **WHEREAS**, funding for this project will be from the USEPA State Revolving Fund and,
6 if necessary, GWA Bond funds and System Development Charge funds applicable to the project
7 intent; and
8

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

- 11 1. The recitals set forth above hereby constitute the findings of the CCU.
- 12 2. The CCU finds that the terms and conditions set by GWA relative to
13 commencement of work activities are fair and reasonable and serve as a measure
14 of Quality Assurance/Quality Control (QA/QC).
- 15 3. The CCU hereby authorizes the management of GWA to accept the bid proposals
16 from "ProPacific Builder Corporation" and "Insituform Technologies, LLC."
17 (EXHIBITS C and D)
- 18 4. The CCU hereby further authorizes the management of GWA to enter into a
19 contract with "ProPacific Builder Corporation" in the amount of Three Million
20 Four Hundred Seven Thousand Eight Hundred Forty-Eight Dollars
21 (\$3,407,848.00).
- 22 5. The CCU hereby further authorizes the management of GWA to enter into a
23 contract with "Insituform Technologies, LLC" in the amount of Three Million
24 Nine Hundred Ninety-Eight Thousand Six Hundred Eighty-Eight Dollars
25 (\$3,998,688.00).
- 26 6. The CCU hereby further approves the funding total for Schedule A of Three
27 Million Four Hundred Seven Thousand Eight Hundred Forty-Eight Dollars
28 (\$3,407,848.00), plus a ten percent (10%) contingency of Three Hundred Forty
29 Thousand Seven Hundred Eighty-Four Dollars and Eighty Cents (\$340,784.80),
30 and for Schedule B of Three Million Nine Hundred Ninety-Eight Thousand Six
31 Hundred Eighty-Eight Dollars (\$3,998,688.00), plus a ten percent (10%)
32 contingency of Three Hundred Ninety-Nine Thousand Eight Hundred Sixty-Eight

Dollars and Eighty Cents (\$399,868.80), for a total authorized funding amount of Eight Million One Hundred Forty-Seven Thousand One Hundred Eighty-Nine Dollars and Sixty Cents (\$8,147,189.60).

7. The CCU hereby further approves the funding for this project will be from the USEPA State Revolving Fund and, if necessary, GWA Bond funds and System Development Charge Funds applicable to the project.
8. In the event funds other than SRF are used and they exceed One Million Dollars (\$1,000,000.00), GWA is authorized to petition the PUC for approval.

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

DULY AND REGULARLY ADOPTED, this 24th day of July 2018.

Certified by:



JOSEPH T. DUENAS
Chairperson

Attested by:


J. GEORGE BAMBA
Secretary

SECRETARY'S CERTIFICATE

I, J. George Bamba, Board Secretary of the Consolidated Commission on Utilities as evidenced by my signature above do hereby certify as follows:

The foregoing is a full, true and accurate copy of the resolution duly adopted at a regular meeting by the members of the Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

AYES:

5

NAYS:

0

ABSTENTIONS:

0

ABSENT:

0



Exhibit A (1 of 1)

CHL ~~CHL~~

Exhibit B (1 of 1)

June 8, 2018

The Guam Waterworks Authority
Thomas F. Cruz, P.E., Chief Engineer
Engineering Division
Gloria B. Nelson Public Service Building
688 Route 15, Mangilao, GU 96913

Subject: Bid Review and Recommendation for the Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-bid)
Project, GWA Project No. S15-006-EPA, IFB No. IFB-04-ENG-2018.

Håfa Adai Tom,

The bids for this project were opened on May 29, 2018. Out of 10 bidders who expressed interest in the project, only 3 bid proposals were received and included ProPacific Builder Corporation (ProPacific), Insituform Technologies, LLC (Insituform), and Core Tech/Hawaiian Dredging, LLC (CHL). Pro Pacific submitted a bid for only Schedule A. Insituform submitted a bid for only Schedule B. CHL submitted a bid for both schedules. A summary of the bids prices along with the Engineer's Opinion of Construction Cost Estimate are provided in the table below.

Bid Schedule	Engineer's Estimate	ProPacific	Insituform	CHL
SCHEDULE A - Base Bid	\$ 2,701,217.00	\$ 3,407,848.00	No Bid	\$ 6,191,463.33
SCHEDULE A – Additive Bid No. 1	\$ 7,000.00	\$ 150,000.00	No Bid	\$ 20,592.67
SCHEDULE A – Total	\$ 2,708,217.00	\$ 3,557,848.00	No Bid	\$ 6,212,056.00
SCHEDULE B - Base Bid	\$ 2,482,494.00	No Bid	\$ 3,998,688.00	\$ 7,570,573.65
SCHEDULE B – Additive Bid No. 1	\$ 62,880.00	No Bid	\$ 1,296,700.00	\$ 799,818.94
SCHEDULE B – Additive Bid No. 2	\$ 7,000.00	No Bid	\$ 35,000.00	\$ 20,583.15
SCHEDULE B – Total	\$ 2,552,374.00	No Bid	\$ 5,330,388.00	\$ 8,390,975.74

It is understood that the bids are to be evaluated by each schedule separately and contract(s) awarded using the Base Bid. After contract award, GWA may consider adding items in the additive bids into the contract by change orders. If the bid is within the amount of funds available to finance the construction Contract, then the award will be made to the lowest responsive and responsible bidder. In the event all bids exceed the available budget, GWA may reject bids by individual line items until the individual line items fit within the available budget.

AECOM conducted an evaluation of the bids received and provide recommendations for award to the responsible Bidder submitting the lowest responsive Bid. The following is a brief summary of the bid evaluation:

- Overall, the CHL bid prices appeared to be excessive in comparison with the other bidders and the Engineer's Estimate for both bid schedules evaluated separately.
- For Schedule A – Base Bid, ProPacific's bid price was approximately 26% more than the Engineer's Estimate and is the lowest responsive bid. ProPacific's total bid including the bid additive was approximately 31% more than the Engineer's Estimate.
- For Schedule B – Base Bid, Insituform's bid price was approximately 61% more than the Engineer's Estimate and is the lowest responsive bid. Insituform's total bid including the bid additives was approximately double the Engineer's Estimate.

Based on the bid evaluation conducted, it is recommended that ProPacific be awarded a construction contract for Schedule A – Base Bid and Insituform be awarded a separate construction contract for Schedule B – Base Bid. It is also recommended that if needed, GWA can consider rejecting individual line items to fit within the available budget; particularly for all the bid additives.

Respectfully,



Agapito (Pete) Diaz, PE
Project Manager
671-477-8326/7
pete.diaz@aecom.com



GUAM WATERWORKS AUTHORITY

BID INVITATION NO.

IFB-04-ENG-2018

GWA Project No.: S15-006-EPA

**Route 4 Relief Sewer Line Rehabilitation and
Replacement**

BID PROPOSAL

Submitted by:



PROPACIFIC BUILDER CORPORATION

(formerly Guam Yooshin Corporation)

750 Route 8 Suite 202 Hanam Plaza,

Barrigada, Guam 96913

T. 671.477.3109 | F. 671.477.7424 | jgyc@guam.net

Exhibit C (2 of 15)

Procurement Checklist

CHECKLIST OF FORMS AND DOCUMENTS REQUIRED TO BE SUBMITTED IN CONJUNCTION WITH BIDS

<u>A. Form or document that must be submitted with bid</u>	<u>Initial if Submitted:</u>
1. Bid Bond Equal to 15% of total amount of bid	<u>Ln</u>
2. Bidder Qualification Form	<u>Ln</u>
3. Bid Proposal and Bid Schedule	<u>Ln</u>
4. Non-Collusion Affidavit	<u>Ln</u>
5. Certification of Bidder Regarding Equal Employment Opportunity	<u>Ln</u>
6. Certification Regarding Non-Segregated Facilities	<u>Ln</u>
7. Sex Offender Certification	<u>Ln</u>
8. Wage and Benefit Determination	<u>Ln</u>
9. Major Shareholders Disclosure Affidavit	<u>Ln</u>
10. Special Instructions to Bidders	<u>Ln</u>
11. Proof of Licensure to Perform Work Called For by the Bid	<u>Ln</u>
12. Financial Statements	<u>Ln</u>
13. Proof of Status as Veteran (if applies)	<u>N/A</u>
14. Forms or Documents Required by Bid or Bid Amendments not referred to above	<u>Ln</u>

I, Jean Yeon Yu, a duly authorized representative of PPBC, do hereby certify, that the forms list above have in fact been submitted with my firm's bid. I acknowledge that, failure to submit any of the above documents will result in my firm being deemed non-responsive and having my firm's bid rejected.

Signed: 

Date: 05/29/2018

Exhibit C (3 of 15)

BID FORM

ARTICLE 1 - BID RECIPIENT

1.01 This Bid is submitted to:

Guam Waterworks Authority
Engineering Division, Room 202
Gloria B. Nelson Public Service Building
688 Route 15
Mangilao, Guam 96913

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into a Contract with Buyer in the form included in the Bidding Documents to furnish the Goods and Special Services as specified or indicated in the Bidding Documents, for the prices and within the times indicated in this Bid, and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 - BIDDER'S ACKNOWLEDGMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Buyer.

ARTICLE 3 - BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, the related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum No.	Addendum Date
Addendum No. 1	April 19, 2018
Addendum No. 2	April 26, 2018
Addendum No. 3	May 15, 2018
Addendum No. 4	May 18, 2018

B. Bidder has visited the Point of Destination and site where the Goods are to be installed or Special Services will be provided and become familiar with and is satisfied as to the observable local conditions that may affect cost, progress, or the furnishing of Goods and Special Services, if required to do so by the Bidding Documents, or if, in Bidder's judgment, any local condition may affect cost, progress, or the furnishing of Goods and Special Services.

Exhibit C (4 of 15)

- C. Bidder is familiar with and is satisfied as to all Laws and Regulations in effect as of the date of the Bid that may affect cost, progress, and the furnishing of Goods and Special Services.
- D. Bidder has carefully studied, considered, and correlated the information known to Bidder; information commonly known to sellers of similar goods doing business in the locality of the Point of Destination and the site where the Goods will be installed or where Special Services will be provided; information and observations obtained from Bidder's visits, if any, to the Point of Destination and the site where the Goods will be installed or where Special Services will be provided; and any reports and drawings identified in the Bidding Documents regarding the Point of Destination and the site where the Goods will be installed or where Special Services will be provided, with respect to the effect of such information, observations, and documents on the cost, progress, and performance of Seller's obligations under the Bidding Documents.
- E. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution (if any) thereof by Engineer is acceptable to Bidder.
- F. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for furnishing the Goods and Special Services for which this Bid is submitted.

ARTICLE 4 - BIDDER'S CERTIFICATIONS

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Buyer, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Buyer of the benefits of free and open competition;
 - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Buyer, a purpose of which is to establish bid prices at artificial, non-competitive levels; and

Exhibit C (5 of 15)

4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process.

ARTICLE 5 - BASIS OF BID AND AWARD OF CONTRACTS

- 5.01 This contract is a multi-award contract through which more than one contract may be awarded through this solicitation. The Bid Schedule contains two schedules, Schedule A and Schedule B. Bidder will furnish the Goods and Special Services in accordance with the Contract Documents for the prices indicated under this article. The Bidder can elect to provide prices under Schedule A or Schedule B or both schedules. Bids must include all items under Schedule A or Schedule B, or both Schedule A and B. Each of Schedules A and B comprise Base Bid items and Additive Bid items. The Bidder shall provide base bid and additive bid(s) prices under each elected schedule.

Bids shall be evaluated by Schedule. Each of Schedules A and B shall be evaluated separately. The lowest responsive and responsible bidder shall be determined for each of Schedule A and Schedule B. Separate contracts will be awarded under Schedule A and Schedule B. One contract will be awarded to the lowest responsive and responsible bidder for Schedule A and one contract will be awarded to the lowest responsive and responsible bidder for Schedule B. If the same contractor is the lowest responsive and responsible bidder for both Schedules A and B, one contract for all the work under Schedules A and B will be awarded.

Exhibit C (6 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)					
SCHEDULE A – Base Bid					
Description of Work: Work consists of replacing 24" Spirolite pipe with 30" PVC pipe, installation of new 18" PVC pipe intertie, construction of precast concrete manholes, sewer manhole rehabilitation with epoxy coating, channel construction, disconnection and re-connection of lateral sewer pipes, abandoning existing sewer pipes and providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.					
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
1	Mobilization and Demobilization	LS	\$ 293,780.00	1	\$ 293,780.00
2	Insurance and Bonds	LS	\$ 132,201.00	1	\$ 132,201.00
3	Permits	LS	\$ 44,067.00	1	\$ 44,067.00
4	12" PVC pipe, installed by open trench, including PVC pipe, fittings, warning/identification tape, cleaning, connections to manholes, adjustment existing channel and bench, testing, and all incidentals, in place complete.	LF	\$ 1,500.00	22	\$ 33,000.00
5	18" PVC pipe, installed by open trench, including PVC pipe, fittings, warning/identification tape, cleaning, connections to existing manholes, adjustment existing channel and bench, testing, and all incidentals, in place complete.	LF	\$ 1,800.00	12	\$ 21,600.00
6	30" PVC pipe, installed by open trench, including existing pipe removal, pipe, fittings, warning/identification tape, cleaning, manhole connections, testing, and all incidentals, in place complete.	LF	\$ 2,000.00	461	\$ 922,000.00
7	Unclassified Trench Excavation and Backfill, including protection of existing utilities if necessary, excavation, installation of sheet piles, cutting and removal of sheet piles, shoring, groundwater cutoff wall, dewatering and dewatering effluent disposal, muck handling and disposal, backfill, pipe bedding, CLSM, temporary erosion control measures, traffic control work, miscellaneous restoration work, and all incidentals required to complete the work.	CY	\$ 600.00	913	\$ 547,800.00
8	Precast Sewer Manhole, SMH-6901A and 493A, including reinforced concrete base, precast concrete riser and cone, flexible pipe seals and connectors, grade adjustment ring(s), frame and cover, epoxy-coating, channelized inverts, testing, CLSM, temporary erosion control measures, traffic control work, incidentals, and all necessary labor, materials and equipment, in place complete.	EA	\$ 30,000.00	2	\$ 60,000.00

Exhibit C (7 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)					
SCHEDULE A – Base Bid					
Description of Work: Work consists of replacing 24" Spirolite pipe with 30" PVC pipe, installation of new 18" PVC pipe intertie, construction of precast concrete manholes, sewer manhole rehabilitation with epoxy coating, channel construction, disconnection and re-connection of lateral sewer pipes, abandoning existing sewer pipes and providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.					
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
9	Drop Precast Sewer Manhole, SMH-6908B, including demolition of existing SMH-10312, reinforced concrete base, precast concrete riser and cone, chimney, flexible pipe seals and connectors, grade adjustment ring(s), frame and cover, epoxy-coating, channelized inverts, testing, CLSM, temporary erosion control measures, traffic control work, incidentals, and all necessary labor, materials and equipment, in place complete.	EA	\$ 30,000.00	1	\$ 30,000.00
10	Rehabilitation of sewer manhole with epoxy coating, including cleaning, surface preparation, cementitious underlayment, concrete channel and bench construction, existing pipe cut & connection, plugging existing pipe, epoxy topcoat, grout injection for leak repair, traffic control work, and all incidentals, in place complete.	EA	\$ 22,500.00	14	\$ 315,000.00
11	Abandon existing sewer pipes including plugging and filling with CLSM, all incidentals, in place complete.	LF	\$ 250.00	280	\$ 70,000.00
12	Unplug 21" existing pipe, plug 15" existing SL-9650 and channel & bench reconstruction at SMH-6897	LS	\$ 30,000.00	1	\$ 30,000.00
13	Sewer Flow Control, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent asphalt concrete (AC) pavement, muck handling and disposal), electrical and standby power/pumps, monitoring, spill containment/mitigation, traffic control work, temporary erosion control measures, all related restoration work, in place complete.	LS	\$ 300,000.00	1	\$ 300,000.00
14	Removal of existing pavement including all necessary labor, materials and equipment, in place complete	SY	\$ 50.00	2,867	\$ 143,350.00

Exhibit C (8 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)					
SCHEDULE A – Base Bid					
Description of Work: Work consists of replacing 24" Spirolite pipe with 30" PVC pipe, installation of new 18" PVC pipe intertie, construction of precast concrete manholes, sewer manhole rehabilitation with epoxy coating, channel construction, disconnection and re-connection of lateral sewer pipes, abandoning existing sewer pipes and providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.					
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
15	AC Pavement Resurfacing, including asphalt concrete base, cold planing, pavement transitions, prime coat, tack coat, traffic striping, miscellaneous restoration, and all necessary labor, materials and equipment, in place complete	SY	\$ <u>150.00</u>	2,867	\$ <u>430,050.00</u>
16	Pavement marking including all necessary labor, materials and equipment, in place complete	LS	\$25,000.00	1	\$ 25,000.00
17	As-Built drawings	LS	\$10,000.00	1	\$ 10,000.00
SCHEDULE A – Base Bid (TOTAL Items 1 through 17, inclusive)					\$ <u>3,407,848.00</u>

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)					
SCHEDULE A – Additive Bid No. 1					
Description of Work: Archaeological monitoring.					
				SCHEDULE A – Additive Bid No. 1	
1	Archaeological and cultural resource services to add new laydown staging areas outside of the suggested areas or outside of the area of potential effect as defined the Archaeological Monitoring and Data Recovery Plan for the project and resubmit to the Department of Parks and Recreation, Guam Historic Resources Division/State Historic Preservation Office for approval and acceptance.	LS	\$ <u>150,000.00</u>	1	\$ <u>150,000.00</u>
SCHEDULE A - Additive Bid No. 1 (TOTAL Items 1, inclusive)					\$ <u>150,000.00</u>

Exhibit C (9 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B –Base Bid

Description of Work: CIPP lining 21", 24", 30" and 36" existing sewer pipes, providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

Item No.	Description	Unit	Unit Price	Schedule B – Base Bid	
				Qty	Bid Amount
1	Mobilization and Demobilization	LS	\$ _____	1	\$ _____
2	Insurance and Bonds	LS	\$ _____	1	\$ _____
3	Permits	LS	\$ _____	1	\$ _____
4	Installation of cured in place pipe (CIPP) lining in existing 21" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	\$ _____	674	\$ _____
5	Installation of cured in place pipe (CIPP) lining in existing 24" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	\$ _____	723	\$ _____

Exhibit C (10 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B –Base Bid

Description of Work: CIPP lining 21", 24", 30" and 36" existing sewer pipes, providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

Item No.	Description	Unit	Unit Price	Schedule B – Base Bid	
				Qty	Bid Amount
6	Installation of cured in place pipe (CIPP) lining in existing 30" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	\$ _____	1,590	\$ _____
7	Installation of cured in place pipe (CIPP) lining in existing 36" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	\$ _____	798	\$ _____
8	Sewer Flow Control, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement, muck handling and disposal), electrical and standby power/pumps, monitoring, spill containment/mitigation, traffic control work, temporary erosion control measures, all related restoration work, in place complete.	LS	\$ _____	1	\$ _____

Exhibit C (11 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)					
SCHEDULE B –Base Bid					
Description of Work: CIPP lining 21", 24", 30" and 36" existing sewer pipes, providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.					
				Schedule B – Base Bid	
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
Schedule B – BASE BID (TOTAL Items 1 through 8, inclusive)					\$ _____

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)					
SCHEDULE B – Additive Bid No. 1					
Description of Work: CIPP part-liner or chemical grouting to control infiltration/inflow prior to CIPP lining.					
				Schedule B – Additive Bid No. 1	
1	CIPP part-liner or grouting to control infiltration on the existing 21" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	\$ _____	70	\$ _____
2	CIPP part-liner or grouting to control infiltration on the existing 24" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	\$ _____	80	\$ _____
3	CIPP part-liner or grouting to control infiltration on the existing 30" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	\$ _____	160	\$ _____
4	CIPP part-liner or grouting to control infiltration on the existing 36" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	\$ _____	160	\$ _____
SCHEDULE B – Additive Bid No. 1 (TOTAL Items 1 through 4, inclusive)					\$ _____

Exhibit C (12 of 15)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)					
SCHEDULE B - Additive Bid No. 2					
Description of Work: Archaeological monitoring.					
				SCHEDULE B – Additive Bid No. 2	
1	Archaeological and cultural resource services to add new laydown staging areas outside of the suggested areas or outside of the area of potential effect as defined the Archaeological Monitoring and Data Recovery Plan for the project and resubmit to the Department of Parks and Recreation, Guam Historic Resources Division/State Historic Preservation Office for approval and acceptance.	LS	\$ _____	1	\$ _____
SCHEDULE B - Additive Bid No. 2 (TOTAL Items 1, inclusive)					\$ _____

Bidder acknowledges that estimated quantities are not guaranteed and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents. Bidder also acknowledges that each unit price includes an amount considered by Bidder to be adequate to cover Bidder's overhead and profit for each separately identified item.

ARTICLE 6 - TIME OF COMPLETION

- 6.01 Bidder agrees that the furnishing of Goods and Special Services will conform to the schedule set forth in Article 5 of the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 - ATTACHMENTS TO THIS BID

- 7.01 The following documents are attached to and made a condition of this Bid:
- A. Required Bid security in the form of Bid Bond.
 - B. List of Proposed Major Suppliers;
 - C. Required Bidder Qualification Statement with Supporting Data.

ARTICLE 8 - DEFINED TERMS

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

Exhibit C (13 of 15)

ARTICLE 9 - BID SUBMITTAL

9.01 This Bid submitted by:

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____
(Individual's signature)

Doing business as: _____

Business address: _____

Phone: _____ Facsimile: _____

E-mail address: _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____
(Signature of general partner - attach evidence of authority to sign)

Name (typed or printed): _____

Business address: _____

Phone: _____ Facsimile: _____

E-mail address: _____

A Corporation

Corporation Name: _____ PROPACIFIC BUILDER CORPORATION

State of Incorporation: _____ GUAM

Type (General Business, Professional, Service, other): _____ General Contractor

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____ Jean Yeon Yu

Title: _____ President

Attest _____ (CORPORATE SEAL)

(Signature of Corporate Secretary)

Business address: 750 Route 8 Suite 202 Hanam Plaza, Barrigada, GU 96913

Exhibit C (14 of 15)

Phone: 671-477-3109 Facsimile: 671-477-7424
E-mail address: jgyc@guam.net

A Limited Liability Company (LLC)

LLC Name: _____
State in which organized: _____

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____
Title: _____
Business address: _____

Phone: _____ Facsimile: _____
E-mail address: _____

A Joint Venture

First Joint Venturer Name: _____ (SEAL)

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____
Title: _____
Business address: _____

Phone: _____ Facsimile: _____
E-mail address: _____

Second Joint Venturer Name: _____ (SEAL)

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____
Title: _____
Business address: _____

Phone: _____ Facsimile: _____
E-mail address: _____

Phone and Facsimile Number, and Address for receipt of official communications to Joint Venture: _____

Exhibit C (15 of 15)

(Each joint venturer must sign. The manner of signing for each individual, partnership, corporation, and limited liability company that is a party to the joint venture should be in the manner indicated above.)

Exhibit D (1 of 17)



SEALED BID FOR: ROUTE 4 RELIEF SEWER LINE REHABILITATION AND REPLACEMENT (RE-BID)

BIDDER: INSITUFORM TECHNOLOGIES, LLC
17988 EDISON AVE
CHESTERFIELD, MO 63005

GWA PROJECT NO. S15-006-EPA

CLOSING DATE AND TIME

~~5/25/2018~~

3:00 PM

5/29/2018

ATTENTION: GUAM WATERWORKS AUTHORITY
GLORIA B. NELSON PUBLIC SERVICES BUILDING
688 ROUTE 15
MANGILAO, GUAM 96913

Vol. 1 of 2

Exhibit D (2 of 17)

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Exhibit D (3 of 17)

BID FORM

ARTICLE 1 - BID RECIPIENT

1.01 This Bid is submitted to:

Guam Waterworks Authority
Engineering Division, Room 202
Gloria B. Nelson Public Service Building
688 Route 15
Mangilao, Guam 96913

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into a Contract with Buyer in the form included in the Bidding Documents to furnish the Goods and Special Services as specified or indicated in the Bidding Documents, for the prices and within the times indicated in this Bid, and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 - BIDDER'S ACKNOWLEDGMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Buyer.

ARTICLE 3 - BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, the related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum No.	Addendum Date
1	April 19, 2018
2	April 26, 2018
3	May 15, 2018
4	May 18, 2018

B. Bidder has visited the Point of Destination and site where the Goods are to be installed or Special Services will be provided and become familiar with and is satisfied as to the observable local conditions that may affect cost, progress, or the furnishing of Goods and Special Services, if required to do so by the Bidding Documents, or if, in Bidder's judgment, any local condition may affect cost, progress, or the furnishing of Goods and Special Services.

Exhibit D (4 of 17)

- C. Bidder is familiar with and is satisfied as to all Laws and Regulations in effect as of the date of the Bid that may affect cost, progress, and the furnishing of Goods and Special Services.
- D. Bidder has carefully studied, considered, and correlated the information known to Bidder; information commonly known to sellers of similar goods doing business in the locality of the Point of Destination and the site where the Goods will be installed or where Special Services will be provided; information and observations obtained from Bidder's visits, if any, to the Point of Destination and the site where the Goods will be installed or where Special Services will be provided; and any reports and drawings identified in the Bidding Documents regarding the Point of Destination and the site where the Goods will be installed or where Special Services will be provided, with respect to the effect of such information, observations, and documents on the cost, progress, and performance of Seller's obligations under the Bidding Documents.
- E. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution (if any) thereof by Engineer is acceptable to Bidder.
- F. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for furnishing the Goods and Special Services for which this Bid is submitted.

ARTICLE 4 - BIDDER'S CERTIFICATIONS

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Buyer, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Buyer of the benefits of free and open competition;
 - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Buyer, a purpose of which is to establish bid prices at artificial, non-competitive levels; and

Exhibit D (5 of 17)

4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process.

ARTICLE 5 - BASIS OF BID AND AWARD OF CONTRACTS

5.01 This contract is a multi-award contract through which more than one contract may be awarded through this solicitation. The Bid Schedule contains two schedules, Schedule A and Schedule B. Bidder will furnish the Goods and Special Services in accordance with the Contract Documents for the prices indicated under this article. The Bidder can elect to provide prices under Schedule A or Schedule B or both schedules. Bids must include all items under Schedule A or Schedule B, or both Schedule A and B. Each of Schedules A and B comprise Base Bid items and Additive Bid items. The Bidder shall provide base bid and additive bid(s) prices under each elected schedule.

Bids shall be evaluated by Schedule. Each of Schedules A and B shall be evaluated separately. The lowest responsive and responsible bidder shall be determined for each of Schedule A and Schedule B. Separate contracts will be awarded under Schedule A and Schedule B. One contract will be awarded to the lowest responsive and responsible bidder for Schedule A and one contract will be awarded to the lowest responsive and responsible bidder for Schedule B. If the same contractor is the lowest responsive and responsible bidder for both Schedules A and B, one contract for all the work under Schedules A and B will be awarded.

Exhibit D (6 of 17)
No bid on Schedule A

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE A – Base Bid

Description of Work: Work consists of replacing 24" Spirolite pipe with 30" PVC pipe, installation of new 18" PVC pipe intertie, construction of precast concrete manholes, sewer manhole rehabilitation with epoxy coating, channel construction, disconnection and re-connection of lateral sewer pipes, abandoning existing sewer pipes and providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

SCHEDULE A – Base Bid					
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
1	Mobilization and Demobilization	LS	\$ _____	1	\$ _____
2	Insurance and Bonds	LS	\$ _____	1	\$ _____
3	Permits	LS	\$ _____	1	\$ _____
4	12" PVC pipe, installed by open trench, including PVC pipe, fittings, warning/identification tape, cleaning, connections to manholes, adjustment existing channel and bench, testing, and all incidentals, in place complete.	LF	\$ _____	22	\$ _____
5	18" PVC pipe, installed by open trench, including PVC pipe, fittings, warning/identification tape, cleaning, connections to existing manholes, adjustment existing channel and bench, testing, and all incidentals, in place complete.	LF	\$ _____	12	\$ _____
6	30" PVC pipe, installed by open trench, including existing pipe removal, pipe, fittings, warning/identification tape, cleaning, manhole connections, testing, and all incidentals, in place complete.	LF	\$ _____	461	\$ _____
7	Unclassified Trench Excavation and Backfill, including protection of existing utilities if necessary, excavation, installation of sheet piles, cutting and removal of sheet piles, shoring, groundwater cutoff wall, dewatering and dewatering effluent disposal, muck handling and disposal, backfill, pipe bedding, CLSM, temporary erosion control measures, traffic control work, miscellaneous restoration work, and all incidentals required to complete the work.	CY	\$ _____	913	\$ _____
8	Precast Sewer Manhole, SMH-6901A and 493A, including reinforced concrete base, precast concrete riser and cone, flexible pipe seals and connectors, grade adjustment ring(s), frame and cover, epoxy-coating, channelized inverts, testing, CLSM, temporary erosion control measures, traffic control work, incidentals, and all necessary labor, materials and equipment, in place complete.	EA	\$ _____	2	\$ _____

Exhibit D (7 of 17)

No bid on Schedule A

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE A – Base Bid

Description of Work: Work consists of replacing 24" Spirolite pipe with 30" PVC pipe, installation of new 18" PVC pipe intertie, construction of precast concrete manholes, sewer manhole rehabilitation with epoxy coating, channel construction, disconnection and re-connection of lateral sewer pipes, abandoning existing sewer pipes and providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

SCHEDULE A – Base Bid					
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
9	Drop Precast Sewer Manhole, SMH-6908B, including demolition of existing SMH-10312, reinforced concrete base, precast concrete riser and cone, chimney, flexible pipe seals and connectors, grade adjustment ring(s), frame and cover, epoxy-coating, channelized inverts, testing, CLSM, temporary erosion control measures, traffic control work, incidentals, and all necessary labor, materials and equipment, in place complete.	EA	\$ _____	1	\$ _____
10	Rehabilitation of sewer manhole with epoxy coating, including cleaning, surface preparation, cementitious underlayment, concrete channel and bench construction, existing pipe cut & connection, plugging existing pipe, epoxy topcoat, grout injection for leak repair, traffic control work, and all incidentals, in place complete.	EA	\$ _____	14	\$ _____
11	Abandon existing sewer pipes including plugging and filling with CLSM, all incidentals, in place complete.	LF	\$ _____	280	\$ _____
12	Unplug 21" existing pipe, plug 15" existing SL-9650 and channel & bench reconstruction at SMH-6897	LS	\$ _____	1	\$ _____
13	Sewer Flow Control, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent asphalt concrete (AC) pavement, muck handling and disposal), electrical and standby power/pumps, monitoring, spill containment/mitigation, traffic control work, temporary erosion control measures, all related restoration work, in place complete.	LS	\$ _____	1	\$ _____
14	Removal of existing pavement including all necessary labor, materials and equipment, in place complete	SY	\$ _____	2,867	\$ _____

No Bid Schedule A

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE A – Base Bid

Description of Work: Work consists of replacing 24" Spirolite pipe with 30" PVC pipe, installation of new 18" PVC pipe intertie, construction of precast concrete manholes, sewer manhole rehabilitation with epoxy coating, channel construction, disconnection and re-connection of lateral sewer pipes, abandoning existing sewer pipes and providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

SCHEDULE A – Base Bid					
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
15	AC Pavement Resurfacing, including asphalt concrete base, cold planing, pavement transitions, prime coat, tack coat, traffic striping, miscellaneous restoration, and all necessary labor, materials and equipment, in place complete	SY	\$ _____	2,867	\$ _____
16	Pavement marking including all necessary labor, materials and equipment, in place complete	LS		1	
17	As-Built drawings	LS		1	
SCHEDULE A – Base Bid (TOTAL Items 1 through 17, inclusive)					\$ _____

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE A – Additive Bid No. 1

Description of Work: Archaeological monitoring.

SCHEDULE A – Additive Bid No. 1					
1	Archaeological and cultural resource services to add new laydown staging areas outside of the suggested areas or outside of the area of potential effect as defined the Archaeological Monitoring and Data Recovery Plan for the project and resubmit to the Department of Parks and Recreation, Guam Historic Resources Division/State Historic Preservation Office for approval and acceptance.	LS	\$ _____	1	\$ _____
SCHEDULE A - Additive Bid No. 1 (TOTAL Items 1, inclusive)					\$ _____

Exhibit D (9 of 17)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B – Base Bid

Description of Work: CIPP lining 21", 24", 30" and 36" existing sewer pipes, providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

Schedule B – Base Bid					
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
1	Mobilization and Demobilization	LS	\$ <u>800,000</u>	1	\$ <u>800,000</u>
2	Insurance and Bonds	LS	\$ <u>100,000</u>	1	\$ <u>100,000</u>
3	Permits	LS	\$ <u>34,300</u>	1	\$ <u>34,300</u>
4	Installation of cured in place pipe (CIPP) lining in existing 21" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	\$ <u>310.00</u>	674	\$ <u>208,940</u>
5	Installation of cured in place pipe (CIPP) lining in existing 24" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	\$ <u>412⁰⁰</u>	723	\$ <u>297,876</u>

Exhibit D (10 of 17)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)

SCHEDULE B - Base Bid

Description of Work: CIPP lining 21", 24", 30" and 36" existing sewer pipes, providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.

Schedule B - Base Bid					
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
6	Installation of cured in place pipe (CIPP) lining in existing 30" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	\$ <u>667⁰⁰</u>	1,590	\$ <u>1,060,530</u>
7	Installation of cured in place pipe (CIPP) lining in existing 36" sewer line, including all labor, materials, supplies, equipment, tools, and incidentals for the complete installation of the liner, cleaning, wet out, preparation, leak repair, transition sections, removal and restoration of sewer manhole cone (if required for access), restoration of pavement and landscaping, removal of protruding laterals, liner termination at manholes, reworking manhole inverts and benches, testing of installed liner, Closed Circuit Television (CCTV) inspection for pre- and post- rehabilitation, traffic control work, and for all other related work.	LF	\$ <u>929⁰⁰</u>	798	\$ <u>741,342</u>
8	Sewer Flow Control, including diversion and bypass pumping plan, temporary bypass piping and pumps, pipe plugs, bypassing at sewer laterals (including locating and exposing cleanouts), temporary trenches (including pavement demolition, excavation, backfill, trench covers, temporary and permanent AC pavement, muck handling and disposal), electrical and standby power/pumps, monitoring, spill containment/mitigation, traffic control work, temporary erosion control measures, all related restoration work, in place complete.	LS	\$ <u>755,700</u>	1	\$ <u>755,700</u>

Exhibit D (11 of 17)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)					
SCHEDULE B – Base Bid					
Description of Work: CIPP lining 21", 24", 30" and 36" existing sewer pipes, providing temporary bypass and traffic control as necessary to complete the rehabilitation and replacement work.					
Item No.	Description	Unit	Unit Price	Qty	Bid Amount
Schedule B – BASE BID (TOTAL Items 1 through 8, inclusive)					\$3,998,688

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)					
SCHEDULE B – Additive Bid No. 1					
Description of Work: CIPP part-liner or chemical grouting to control infiltration/inflow prior to CIPP lining.					
				Schedule B – Additive Bid No. 1	
1	CIPP part-liner or grouting to control infiltration on the existing 21" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	\$2330 ⁰⁰	70	\$163,100 ⁰⁰
2	CIPP part-liner or grouting to control infiltration on the existing 24" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	\$2330 ⁰⁰	80	\$186,400 ⁰⁰
3	CIPP part-liner or grouting to control infiltration on the existing 30" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	\$2960 ⁰⁰	160	\$473,600 ⁰⁰
4	CIPP part-liner or grouting to control infiltration on the existing 36" sewer line, where approved by the Owner, including full compensation for all labor, materials, supplies, equipment, tools, and all incidentals for completed work.	LF	\$2960	160	\$473,600 ⁰⁰
SCHEDULE B – Additive Bid No. 1 (TOTAL Items 1 through 4, inclusive)					\$5,295,388 ⁰⁰

\$1,295,700

Exhibit D (12 of 17)

Route 4 Relief Sewer Line Rehabilitation and Replacement (Re-Bid)					
SCHEDULE B - Additive Bid No. 2					
Description of Work: Archaeological monitoring.					
				SCHEDULE B - Additive Bid No. 2	
1	Archaeological and cultural resource services to add new laydown staging areas outside of the suggested areas or outside of the area of potential effect as defined the Archaeological Monitoring and Data Recovery Plan for the project and resubmit to the Department of Parks and Recreation, Guam Historic Resources Division/State Historic Preservation Office for approval and acceptance.	LS	\$ 35,000	1	\$ 35,000
SCHEDULE B - Additive Bid No. 2 (TOTAL Items 1, inclusive)					\$ 5,330,388 ⁰⁰

Bidder acknowledges that estimated quantities are not guaranteed and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents. Bidder also acknowledges that each unit price includes an amount considered by Bidder to be adequate to cover Bidder's overhead and profit for each separately identified item.

ARTICLE 6 - TIME OF COMPLETION

- 6.01 Bidder agrees that the furnishing of Goods and Special Services will conform to the schedule set forth in Article 5 of the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 - ATTACHMENTS TO THIS BID

- 7.01 The following documents are attached to and made a condition of this Bid:
- A. Required Bid security in the form of bidder's bond.
 - B. List of Proposed Major Suppliers;
 - C. Required Bidder Qualification Statement with Supporting Data.

ARTICLE 8 - DEFINED TERMS

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

Exhibit D (13 of 17)



World HQ: 17988 Edison Avenue 636-530-8000
Chesterfield MO 63005 Fax: 636-530-8701

Local Off: 9654 Titan Court 303-791-7199
Littleton CO 80125 Fax: 303-791-7399

GWA Route 4 Relief Sewer Line Rehabilitation and Replacement, Project No. S15-006-EPA

LIST OF SUBCONTRACTORS Selection for Insituform

1. CCTV/CLEARING - MOCON
2. BYPASS - MOCON
3. _____
4. _____
5. _____
6. _____

Exhibit D (14 of 17)



World HQ: 17988 Edison Avenue 636-530-8000
Chesterfield MO 63005 Fax: 636-530-8701

Local Off: 9654 Titan Court 303-791-7199
Littleton CO 80125 Fax: 303-791-7399

GWA Route 4 Relief Sewer Line Rehabilitation and Replacement, Project No. S15-006-EPA

LIST OF Suppliers Selection for Insituform

1. CIPP—Insituform
2. _____
3. _____
4. _____
5. _____

Exhibit D (15 of 17)

ARTICLE 9 - BID SUBMITTAL

9.01 This Bid submitted by:

If Bidder is:

An Individual

Name (typed or printed): N/A

By: _____
(Individual's signature)

Doing business as: _____

Business address: _____

Phone: _____ Facsimile: _____

E-mail address: _____

A Partnership

N/A

Partnership Name: _____ (SEAL)

By: _____
(Signature of general partner - attach evidence of authority to sign)

Name (typed or printed): _____

Business address: _____

Phone: _____ Facsimile: _____

E-mail address: _____

A Corporation

N/A

Corporation Name: _____

State of Incorporation: _____

Type (General Business, Professional, Service, other): _____

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(CORPORATE SEAL)

Attest _____
(Signature of Corporate Secretary)

Business address: _____

Exhibit D (16 of 17)

Phone: _____ Facsimile: _____

E-mail address: _____

A Limited Liability Company (LLC)

LLC Name: Insituform Technologies, LLC

State in which organized: Delaware

By: Whittney Schulte
(Signature - attach evidence of authority to sign)

Name (typed or printed): Whittney Schulte

Title: Contracting & Attesting Officer

Business address: 17988 Edison Avenue
Chesterfield, MO 63005

Phone: 636-530-8000

Facsimile: 636-530-8701

E-mail address: WSchulte@Aegion.com

A Joint Venture

First Joint Venturer Name: N/A (SEAL)

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone: _____

Facsimile: _____

E-mail address: _____

Second Joint Venturer Name: _____ (SEAL)

By: _____
(Signature - attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Business address: _____

Phone: _____

Facsimile: _____

E-mail address: _____

Phone and Facsimile Number, and Address for receipt of official communications to Joint Venture: _____

Exhibit D (17 of 17)

INSITUFORM TECHNOLOGIES, LLC

PRESIDENT APPOINTMENT OF OFFICERS

Pursuant to the authority set forth in the Limited Liability Company Agreement of Insituform Technologies, LLC (the "Company"), I hereby determine that:

1. Christlanda Adkins, Laura M. Andreski, Janet Hass, Jana Lause, Diane Partridge, Whitney Schulte, and Ursula Youngblood are appointed as Contracting and Attesting Officers of the Company, each with the authority, individually and in the absence of the others, subject to the control of the Board of Managers of the Company, (i) to certify and to attest the signature of any officer of the Company, (ii) to enter into and to bind the Company to perform pipeline rehabilitation activities of the Company and all matters related thereto, including the maintenance of one or more offices and facilities of the Company, (iii) to execute and to deliver documents on behalf of the Company, and (iv) to take such other action as is or may be necessary and appropriate to carry out the project, activities and work of the Company; and
2. All other Contracting and Attesting Officers of the Company appointed by the President of the Company prior to the date of this appointment are hereby removed from office.

Dated: September 20, 2017



Frank R. Firsching
President

Exhibit B

Approved Contingency: \$ 399,868.80

Change Order	Cost
1	\$ -
2	\$ 90,800.00
3	\$ 202,994.75
4	\$ 54,887.50
5	\$165,245.12
6	\$ 75,000.00 (estimated)
Total	\$ 588,927.37

Difference between
approved contingency and
estimated changer order
total cost: \$ 189,058.57

Requested additional
contingency funds: \$ 200,000.00



Exhibit C

ENGINEERING MANAGEMENT & PLANNING SERVICES CORPORATION

1998 ARMY DRIVE, ROUTE 16, 2/F EMPSCO BLDG., DEDED0, GUAM 96929 □ PO BOX 21794 GMF, BARRIGADA, GU 96921 □ TEL (671) 6384716 /6385716 □ FAX (671) 6382136

March 17, 2020

Mr. Thomas F. Cruz, P.E.

Chief Engineer

Guam Waterworks Authority

Gloria B. Nelson Public Service Building

688 Route 15 Mangilao, Guam 96913

Attention: **John Riegel**

Senior Manager

Brown and Caldwell

Subject: GWA Project No. S15-006-EPA, Route 4 Relief Sewer line Rehabilitation and Replacement_Change Order ~~04~~ (Schedule B)

Note: The Change Order Number is 5

Ref.: Insituform Technologies LLC – Extra Cleaning Change Order ~~#4~~

Gentlemen,

Reference is made to Insituform Change order proposal no. 4 reference as above.

CM acknowledges Mr. John Riegel (Brown&Caldwell) approval of Change Order no. 4 in the amount of One Hundred Sixty-Five Thousand Two Hundred Forty-Five and 12/100 (\$165,245.12) for the additional cleaning cost the Contractor incurred on the project due to the following reasons:

- a. Encountered heavy debris (Three quarters of pipe filled with silt, sand, large chunks of concrete, large chunks of coral and a manhole lid).
- b. Volume of debris removed is approximately 1,518 cubic feet.
- c. Way beyond standard cleaning which require more than 2 to 3 cleaning passes for removal of 1,518 cubic feet of debris).

Based on CM review, Insituform cannot claim cost for extra cleaning based on contract Specification Section 33 01 33, Sewer Line and Manhole Cleaning, paragraph 1.04B, paragraph 2.01 and 2.01B. However, per CM and Brown & Caldwell's determination, this extra cleaning work was assessed as a differing site/physical condition per reference to Section 00700 paragraph 5.04. This agreement was previously acknowledged from our past weekly meeting.



The extra cleaning work for segment 1330, 1332, and 1333 were required for Insituform to properly install the CIPP lining continuously at Route 1. The impact of Change order 04 has been thoroughly reviewed and negotiated with Insituform based upon our discussion held last March 12, 2020.

Should you have any question, please do not hesitate to call or email our office.

Very Truly,

EMPSCO Engineering Consultants

Al Tyrone de Guzman, P.E.

Project Manager

Email: tyrone.deguzman@empSCO.net

Enclosure:

- a. Extra Cleaning Change Order 04 revised (Enclosure 1)
- b. CM review letter w/ Daily report inspection report (Enclosure 2)
- c. Email correspondence (Enclosure 3)
- d. Evidence / justification report (Enclosure 4)



Worldwide Pipeline
Rehabilitation

91-255 Kalaeloa Blvd.
Kapolei, HI. 96707

Phone: 808-682-4750
Fax: 808-682-4752

March 6, 2020

EMPSCO
Engineering Consultants
1998 Army Drive Rt. 16
2nd Flr. EMPSCO Bldg.
Dededo, GU 96929

Brown and Caldwell
414 W Soledad Ave. #602,
Hagatna, 96910 Guam

Attn: Ferdie Cabuhat, Tyrone De Guzman, and John Riegel.

Re: Route 4 Relief Sewer Line Rehabilitation and Replacement – Schedule B
Extra Cleaning Change Order #4

The following additional work pricing is requested on the above-mentioned project for segments 1330, 1332, and 1333. During cleaning Mocon encountered heavy debris (three quarter pipe of silt, sand, large chunks of concrete, large chunks of coral, and a manhole lid). Normal cleaning is considered 1 ½ days per segment. Mocon has spent 8 days cleaning and estimate another 8 days to finish. Volume of debris removed to date is 870 cubic feet. They estimate the remaining debris, which some will have to be removed by man entry, at 648 cubic feet. This is above and beyond industry standard cleaning (2 to 3 cleaning passes with 324 cubic feet of debris for every 3 segments). Please see below the change order pricing to cover cleaning and traffic control. In addition, we would like to request 16 extra days be added to the contract.

Line Segments	Pipe Size	Length	Original Price	Additional Cleaning and Debris Removal	Total
1330	36	250.42	\$145.00	\$196.00	\$49,082.32
1332	36	323.28	\$145.00	\$196.00	\$63,362.88
1333	36	226.02	\$145.00	\$196.00	\$44,299.92
Bid Item 7	Traffic Control for 36"			\$8,500.00	\$8,500.00
				Total	\$165,245.12

If you have any questions, feel free to contact me on my cell at (808) 265-3083 or by email at dmiller@aegion.com.

Sincerely,

Daren Miller
Insituform Technologies, LLC.
Senior Project Manager

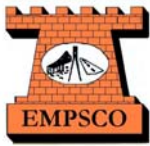


99-1000 Halawa Valley St, Suite
A Aiea, HI 96701

Date: 2/20/2020
Estimate: 4
Job # 208059
Billing Period 10/31/19-2/20/2020
Federal ID 93-0686548
Invoice # 1839-4

From: Darin Fogg---808-372-8751
Contract: Guam Route 4--ITI Job #208059
Account : 1301
PO# 10625

Item	No	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	CONTRACT PRICE	QUANTITIES			AMOUNT			
							Previous Quantities	Quantities This Period	To Date Quantity	Previous Amount	Period Billing	To Date	Amount
C/O 4		Extra cleaning segments 1330, 1332, & 1333	799.72	LF	\$177.00	\$141,550.44		799.72			\$ 141,550.44		
TOTALS:						\$ 141,550.44					\$ 141,550.44	\$	-
										\$ -	\$ -	\$ -	-
						\$ -				\$ -	\$ -	\$ -	-
						\$ 141,550.44	Grand Total			\$ -	\$ 141,550.44	\$	-



January 2, 2020

Mr. Thomas F. Cruz, P.E.

Chief Engineer

Guam Waterworks Authority

Gloria B. Nelson Public Service Building

688 Route 15 Mangilao, Guam 96913

Attention: **George Watson, P.E.**

Project Manager

Brown and Caldwell

Subject: GWA Project No. S15-006-EPA, Route 4 Relief Sewer line Rehabilitation and Replacement_Change Order#4

Ref.: Insituform Technologies LLC – Extra Cleaning Proposed Change Order #3

Gentlemen,

Reference is made to Insituform's Change order proposal no. 3 dated December 5, 2019 reference as above.

Based on CM review, Insituform cannot claim cost change based on contract Specification Section 33 01 33, Sewer Line and Manhole Cleaning, paragraph 1.04B, paragraph 2.01A and paragraph 2.01B.

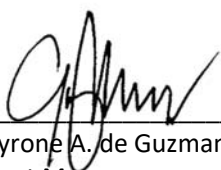
However, Insituform can claim if they can provide evidence in writing for differing site/ physical condition in reference to Section 00700 paragraph 5.04. This was discussed during the previous progress meeting. In addition, the additional days for extra cleaning was reviewed based on inspection report (Refer to the following page for cleaning log accepted days) Therefore, we conclude that Insituform can only claim 8 extra days.

Once Insituform can provide differing site condition evidence in writing, then we can probably manage the PCO and then award 8 extra days be added to the contract.

Should you have any question, please call or email our office.

Very Truly,

EMPSCO Engineering Consultants



Al Tyrone A. de Guzman, P.E.

Project Manager



ROUTE 4 RELIEF SEWER LINE REHABILITATION AND REPLACEMENT (RSLRR) - INSITUFORM TECHNOLOGIES, LLC (ITL)

UPDATED DAILY INSPECTION REPORT

CLEANING LOGS

Date	Line Segment	Hours	Length	Remarks / Comments	Supervised	Accepted Days
10/4/2019	1330	9pm to 5am	none		Ted	
11/4/2019	1329 to 1331	7pm to 3am	none		Ted	
11/5 - 11/13/2019	1329 to 1331			ITL & Mocon having problem with vactor's cleaner	Ted	
11/14 - 11/15/2019	6772	9:30am to 11am		Mocon cleaned & repair SL and MH by removal of debris rocks and sand	Ted	
11/20/2019	1332	10pm to 4am	15 ft	Mocon tried cleaning SL upstream	Ted	1
11/21/2019	1333	7pm to 1am	15 ft	Mocon tried cleaning SL downstream	Ted	1
	1333	7pm to 1am	123 ft	Mocon tried cleaning SL upstream; no CCTV	Ted	
11/22/2019	1332	7pm to 1am	135 ft	Mocon tried cleaning SL upstream; no CCTV	Ted	1
	1332	7pm to 9pm	200 ft	Mocon tried cleaning SL upstream; no CCTV	Ted	
11/24/2019	1332	7pm to 4am	40 ft	Mocon cleaned SL downstream; provide photos	Garret	1
11/25/2019	1332	7pm to 4am	183 ft	Mocon cleaned SL upstream; provide photos	Garret	1
	1332	7pm to 4am	120 ft	Mocon cleaned SL downstream; provide photos	Garret	
11/26/2019	1332	7pm to 4am	120 ft	Mocon cleaned SL downstream; provide photos	Garret	1
	Manhole 183	7pm to 11pm	none	Tried to clean manhole		
11/27/2019	Manhole 183	7pm to 9pm	none	SM 183 full of water	Garret	
11/28 to 11/30/2019			none	ITL & Mocon stated Vactor's problem; No work		
12/1 to 12/31/2019			none	ITL & Mocon stated Vactor's problem; No work		

TOTAL ACCEPTED SPENT DAYS		6
TOTAL ESTIMATED DAYS TO FINISH		2



Worldwide Pipeline
Rehabilitation

91-255 Kalaeloa Blvd.
Kapolei, HI. 96707

Phone: 808-682-4750
Fax: 808-682-4752

December 5, 2019

EMPSCO
Engineering Consultants
1998 Army Drive Rt. 16
2nd Flr. EMPSCO Bldg.
Dededo, GU 96929

Brown and Caldwell
414 W Soledad Ave. #602,
Hagatna, 96910 Guam

Attn: Ferdie Cabuhat, Tyrone De Guzman, John Riegel, and George Watson.

Re: Route 4 Relief Sewer Line Rehabilitation and Replacement – Schedule B
Extra Cleaning Change Order #3

The following additional work pricing is requested on the above-mentioned project for segments 1330, 1332, and 1333. During cleaning Mocon encountered heavy debris (three quarter pipe of silt, sand, large chunks of concrete, large chunks of coral, and a manhole lid). Normal cleaning is considered 1 ½ days per segment. Mocon has spent 8 days cleaning and estimate another 5 days to finish. Volume of debris removed to date is 870 cubic feet. They estimate the remaining debris, which some will have to be removed by man entry, at 648 cubic feet. This is above and beyond industry standard cleaning (2 to 3 cleaning passes with 324 cubic feet of debris for every 3 segments). Please see below the change order pricing to cover cleaning and traffic control. In addition, we would like to request 14 extra days be added to the contract.

Line Segments	Pipe Size	Length	Original Price	Additional Cleaning and Debris Removal	Total
1330	36	250.42	\$145.00	\$196.00	\$49,082.32
1332	36	323.28	\$145.00	\$196.00	\$63,362.88
1333	36	226.02	\$145.00	\$196.00	\$44,299.92
Bid Item 7	Traffic Control for 36"			\$8,500.00	\$8,500.00
				Total	\$165,245.12

If you have any questions, feel free to contact me on my cell at (808) 265-3083 or by email at dmiller@aegion.com.

Sincerely,

Daren Miller
Insituform Technologies, LLC.
Senior Project Manager

Tyrone De Guzman

From: Daren Miller <dmiller@aegion.com>
Sent: Thursday, December 5, 2019 4:37 PM
To: John Riegel; George Watson; Ferdie Cabuhat; Tyrone De Guzman
Subject: Route 4 Additional Cleaning Change Order Segments 1330, 1332, 1333
Attachments: Extra Cleaning Change Order 3 revised 12 5 2019.doc

Follow Up Flag: Follow up
Flag Status: Completed

All,

Attached is our revised change order for the extra cleaning of segments 1330, 1332, and 1333. I discussed the cleaning with our Area Vice President and Head of Operations. They have directed me to request \$196.00 per foot in addition too the original price of \$145.00 per foot. With the high volume of debris, large rocks, large coral, and manhole lid they believe the price is justified (Two examples delivered to Brown & Caldwell office). Plus most of the remaining large debris, estimated at 658 cubic feet, will have to be removed by man entry. Below is the volume of debris removed to date.

Method of Hauling	Debris	Unit of Measure
Vector Load	324	Cubic Feet
Vector Load	324	Cubic Feet
Vector Load	162	Cubic Feet
Truck Bed Load	60	Cubic Feet
Total	870	Cubic Feet

Please let me know if there is anything else I can provide to help get this change order approved.

Thank you,

Daren Miller | Senior Project Manager | Insituform Technologies LLC.

91-255 Kalaeloa Blvd | Kapolei, Hawaii 96707

Mobile: 671.929.7888 | www.Aegion.com

dmiller@aegion.com

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