

City of Biddeford
Finance Committee
May 19, 2020 5:00 PM Via ZOOM Virtual Meeting
Please click the link below to join the webinar:
<https://biddeford.zoom.us/j/92478173661>
Password: 001539

- 1. Call to order**
- 2. Approval of the Minutes**
 - 2.1. April 21, 2020 Finance Committee Meeting Minutes
[4-21-2020 Finance Committee Minutes.rtf](#)
- 3. Signing of the expenditure warrant**
 - 3.1. Warrant for 4/29/2020
 - 3.2. Warrant for 5/06/2020
 - 3.3. Warrant for 5/12/2020
 - 3.4. Warrant for 5/19/2020
- 4. Discussion/Approval**
 - 4.1. Approval/Pavement Markings Project/Poirier Guidelines
[5-19-2020 Pavement Markings -ORDER.doc](#)
[5-19-2020 Pavement Markings Contract-backup docs.pdf](#)
 - 4.2. Approval/Return Activated Sludge Pumps for Water Street Wastewater Treatment Plant/Wescor Associates, Inc.
[5-19-2020 Return Activated Sludge Pumps-ORDER.doc](#)
[5-19-2020 Return Activated Sludge Pumps-backup docs.pdf](#)
 - 4.3. Approval/St. Mary's Street Granite Sewer Culvert Box Lining Project
[5-19-2020 St Marys Street-Culvert Lining Project-ORDER.doc](#)
[5-19-2020 St Marys Street-Culvert Lining Project-backup docs.pdf](#)
- 5. Other Business**
- 6. Adjournment**

City of Biddeford
Finance Committee Meeting Minutes
April 21, 2020
(Due to COVID-19, the meeting was held virtually via ZOOM)

The meeting was called to order at 5:00 p.m. by the Chair, Councilor John McCurry.

Present: Chair, Council President John McCurry, Mayor Alan Casavant, Councilor Mike Ready, Councilor Stephen St. Cyr, City Manager James Bennett, Chief Operating Officer Brian Phinney, and City Clerk Carmen Morris.

Adjustment to the Agenda

No adjustments to the agenda.

Approval of Minutes of April 7, 2020

Motion by Councilor Ready to approve the minutes as printed, seconded by Councilor St. Cyr.

Vote: unanimous.

Motion carried 4-0

The Expenditure Warrant

The warrants were emailed to the Finance Committee members for review.

Motion by Councilor Ready to approve the expenditure warrant for April 15, 2020, seconded by Councilor St. Cyr.

Vote: unanimous.

Motion carried 4-0.

Motion by Councilor Ready to approve the expenditure warrant for April 22, 2020, seconded by Councilor St. Cyr.

Vote: unanimous.

Motion carried 4-0.

Discussion/Approval

Approval/Lower Main Street Sewer Separation Project

Motion by Councilor Ready to recommend the approval of the Lower Main Street Sewer Separation Project, seconded by Councilor St. Cyr.

Discussion: Councilor St. Cyr asked why the low bidder, DDI Construction of Gorham, Maine, came in considerably lower than the other bids, and if they've done work for us before.

City Engineer, Tom Milligan, explained DDI Construction has not done work in Biddeford in the past. They have done work for Saco and Gorham and Tom received good references from both communities. Tom discussed the bids and the differences in prices and noted DDI was lower by

about \$150,000.00. DDI would like to start construction as soon as possible because of the lack of traffic on lower Main Street. The goal is for the project to be completed by July 1.

Councilor Ready asked if Council approves this project at tonight's meeting, how quickly do they get to start.

Tom explained once Council gives them the thumbs up, then we would give them a notice of award which gives them the ability to order materials and then permits will need to be put in place. Tom estimates they would like to begin May 1.

Mayor Casavant asked if the businesses in that area have been notified of the project.

Tom noted he did contact Delilah Poupore of Heart of Biddeford and gave her a heads up, which is typical so she could talk with the businesses. He also suggested Brad Favreau, City Economic Development Coordinator, be involved to touch bases with the business owners.

Mayor Casavant recommended signage be used in the area to help direct traffic in the area.

Councilor Ready suggested notifying Doug Sanford of the project.

Vote: unanimous.
Motion carried 4-0.

Approval/Contract for Engineering Services/South Street Sidewalk Project

Motion by Councilor Ready to recommend the approval of the contract for Engineering Services for the South Street Sidewalk Project, seconded by Councilor St. Cyr.

Discussion: Councilor St. Cyr asked if Maine-Land Development Consultants has done work for us in the past, and have we been satisfied with the work.

Tom Milligan, City Engineer, answered they have not, but they have done quite a few projects in surrounding areas and they seem fully qualified. He noted it is a straight-forward project and they should have no problem handling the work.

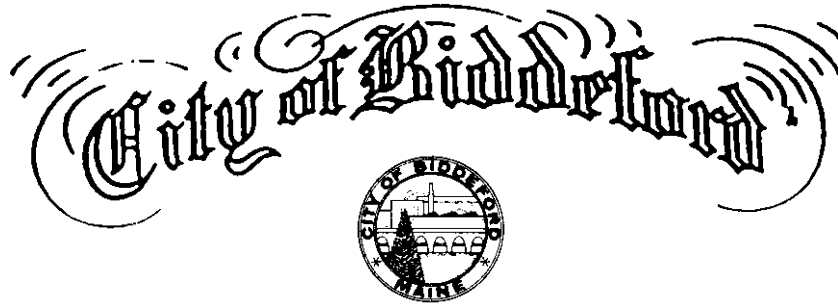
Vote: unanimous.
Motion carried 4-0.

Other Business

Councilor McCurry asked if Curt will be able to do the financials. Jim will discuss putting together a financial report with Curt this week.

Motion to adjourn made by Councilor Ready, seconded by Councilor St. Cyr.

Vote: unanimous.
Motion carried 4-0.
Adjourned at 5:18 p.m.



2020.32

IN BOARD OF CITY COUNCIL..MAY 19, 2020

BE IT ORDERED, that the City Council of the City of Biddeford does hereby approve awarding the Pavement Marking Project to Poirier Guidelines in an amount not to exceed \$47,342.79. This project is budgeted for in Account 21162-60462.

NOTE: This item will be considered at the May 19, 2020 Finance Committee meeting.



Finance Department

Meeting Date: May 19, 2020

Meeting Time: 6:00 PM

Agenda Item No:

Item Description: Pavement markings

Submitted by: Jeff Demers Director Publics/Waste Water

Supporting Information/Documentation:

4-10-2022 Request for proposal

4-18-2020 Poirier Guidelines Proposal form

4-22-2020 Hi Way Safety proposal form

4-24-2020 City Bid Tabulation form

Executive Summary.

The Public Works department advertised for request for proposals for pavement markings on 4-10-2020.

Funding Source:

Public Works received two proposals. Please see the attached Bid Tabulation. Funds for this project are appropriated in the Public works road maintenance budget 21162-60462.

Staff Recommendation:

Staff recommends the work be awarded to Poirier Guidelines for the estimated sum of \$47,342.79

CITY OF BIDDEFORD, MAINE

**PUBLIC WORKS DEPARTMENT
371 HILL STREET
BIDDEFORD MAINE 04005
PHONE 207-282-1579
FAX 207-286-9395**

REQUEST FOR PROPOSAL

PAVEMENT MARKINGS

The City of Biddeford, Maine, is soliciting proposals from qualified contractors for the supplying and placement of pavement markings for the 2020 season. Contractors submitting proposals may be requested to supply evidence of qualifications for review by the Public Works Director. Contractors submitting proposals must also provide proof of liability insurance in the amount of at least \$500,000.00.

The selected contractor shall be required to coordinate its work according to the schedule established by the Public Works Director. The majority of the work will be scheduled for the spring of 2020. Please see attached listing for proposed pavement markings for this period. The City of Biddeford reserves the right to add or subtract from said list of pavement markings without liability and without renegotiation of unit prices.

Proposals are to be submitted to the Public Works Department, 371 Hill Street, Biddeford, Maine 04005 in a sealed envelope marked "Pavement Markings Proposal" by 1:00 PM on Friday April 24, 2020. Proposals shall be opened at that time and place.

Proposals shall be identified by unit price per linear foot or per each for line items on estimated quantities supplied herein. The City of Biddeford, Maine, reserves the right to add to or subtract from the estimated quantities identified without any jeopardy or liability. Unit prices submitted shall remain in effect regardless of actual quantities of work performed.

All proposals shall become the property of the City of Biddeford, Maine. The City of Biddeford, Maine, reserves the right to accept or reject any or all proposals if it is deemed in the best interest of the City.

Questions pertaining to this Request for Proposals should be directed to the Director of Public Works, Mr. Jeff Demers or Director of operations Mr. Ray Parent at the Public Works Department located at 371 Hill Street, Biddeford, Maine. They can be reached at 207-282-1579.

4/29/2020

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PROPOSAL FORM PAVEMENT MARKINGS

Proposals shall identify a unit price per linear foot for all line items. Unit prices shall include all cost associated with supplying, delivering and placement of all markings in accordance with the 1995 Maine D.O.T. specifications manual section 627- pavement markings and section 708-paints and preservatives. All pavement lines and markings shall be applied in accordance with the Manual on Uniform Traffic Control Devices. Paint shall meet the requirements of AASHTO M248, Type F – fast dry traffic paint. Glass beads shall conform to the requirements of AASHTO M247, Type I. Note : all items shall include glass beads at the rate of 4.5 pounds per gallon.

Estimated quantities are identified for the purpose of comparing proposals. Quantities may vary depending on conditions and issues encountered during the program. Unit prices submitted shall apply regardless of final quantities at the completion of the program. Contractors shall abide by all OSHA Rules & Regulations and by all State and Local ordinances regarding construction activities.

ITEM	EST. QUANTITY	UNIT PRICE	TOTAL
4" double solid yellow line / lf	266,265 lf	<u>.085</u>	<u>22,632.53</u>
4" single solid yellow line / lf	4,350 lf	<u>.045</u>	<u>195.75</u>
4" solid white line / lf	311,475 lf	<u>.045</u>	<u>14,016.38</u>
4" broken yellow line / lf	6,075 lf	<u>.045</u>	<u>273.38</u>
4" broken white line / lf	13,050 lf	<u>.045</u>	<u>587.25</u>
12" solid white divider/stop line/lf	7,970 lf	<u>.50</u>	<u>3,985.00</u>
ARROWS / ea.	250 ea.	<u>17.00</u>	<u>4,250.00</u>
LETTERS / ea.	165 ea.	<u>8.50</u>	<u>1,402.50</u>
Total :			<u>47,342.79</u>

COMPANY NAME:

Poirier Guidelines

AUTHORIZED REPRESENTATIVE:

Matthew King

TITLE:

Owner

DATE OF SUBMITTAL:

4/18/20

PROPOSAL FORM PAVEMENT MARKINGS

Proposals shall identify a unit price per linear foot for all line items. Unit prices shall include all cost associated with supplying, delivering and placement of all markings in accordance with the 1995 Maine D.O.T. specifications manual section 627- pavement markings and section 708-paints and preservatives. All pavement lines and markings shall be applied in accordance with the Manual on Uniform Traffic Control Devices. Paint shall meet the requirements of AASHTO M248, Type F – fast dry traffic paint. Glass beads shall conform to the requirements of AASHTO M247, Type I. Note : all items shall include glass beads at the rate of 4.5 pounds per gallon.

Estimated quantities are identified for the purpose of comparing proposals. Quantities may vary depending on conditions and issues encountered during the program. Unit prices submitted shall apply regardless of final quantities at the completion of the program. Contractors shall abide by all OSHA Rules & Regulations and by all State and Local ordinances regarding construction activities.

ITEM	EST. QUANTITY	UNIT PRICE	TOTAL
4" double solid yellow line / lf	266,265 lf	<u>10</u>	<u>26,626.50</u>
4" single solid yellow line / lf	4,350 lf	<u>.05</u>	<u>217.50</u>
4" solid white line / lf	311,475 lf	<u>.05</u>	<u>15,573.75</u>
4" broken yellow line / lf	6,075 lf	<u>.05</u>	<u>303.75</u>
4" broken white line / lf	13,050 lf	<u>.05</u>	<u>652.50</u>
12" solid white divider/stop line/lf	7,970 lf	<u>.45</u>	<u>398.50</u>
ARROWS / ea.	250 ea.	<u>15.00</u>	<u>3,750.00</u>
LETTERS / ea.	165 ea.	<u>7.00</u>	<u>1,155.00</u>
Total :			<u>48,677.50</u>

COMPANY NAME:

AUTHORIZED REPRESENTATIVE:

TITLE:

DATE OF SUBMITTAL:

Hi Way Safety Systems, Inc

President

4-22-20

[illegible]



HI-WSAF-01

COMMERCIAL

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

4/21/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER WM. F. Borhek Insurance Agency 311 Plymouth St Halifax, MA 02338		CONTACT NAME: PHONE (A/C, No, Ext): (781) 293-6331 FAX (A/C, No): (781) 293-2171 E-MAIL ADDRESS:		
INSURED Hi-Way Safety Systems, Inc. Highway Safety Solutions Inc. Attn: Kathy DeLong 9 Rockview Way Rockland, MA 02370		INSURER(S) AFFORDING COVERAGE		NAIC #
		INSURER A: Charter Oak Fire Ins.Co.		25615
		INSURER B: Travelers Indemnity Company		25658
		INSURER C: Travelers Property Casualty Company of America		25674
		INSURER D: American Zurich Insurance Co.		40142
		INSURER E:		
INSURER F:				

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PROJECT ☐ LOC OTHER:	X	CO-5G489458	12/31/2019	12/31/2020	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	☒ AUTOMOBILE LIABILITY ☒ ANY AUTO OWNED AUTOS ONLY ☒ SCHEDULED AUTOS ☒ HIRED AUTOS ONLY ☒ NON-OWNED AUTOS ONLY		810-8N6763A	12/31/2019	12/31/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
C	☒ UMBRELLA LIAB ☒ OCCUR EXCESS LIAB CLAIMS-MADE DED ☒ RETENTION \$ 10,000		CUP-9H992769	12/31/2019	12/31/2020	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	UB-7H850286	12/31/2019	12/31/2020	☒ PER STATUTE ☐ OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Bid for Pavement Markings

Certificate holder is Additional Insured as respects General Liability if required by written contract.

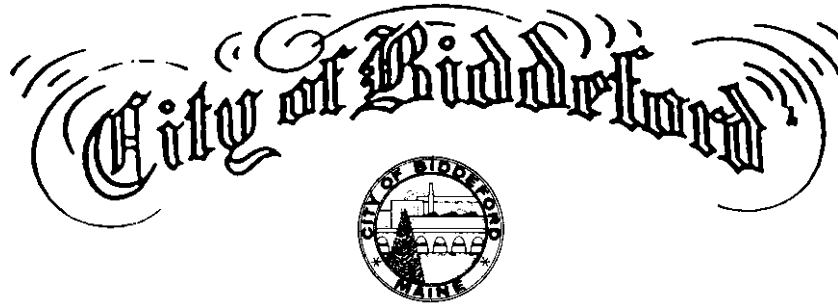
CERTIFICATE HOLDER

CANCELLATION

City of Biddeford
Public Works Dept
371 Hill St
Biddeford, ME 04005

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

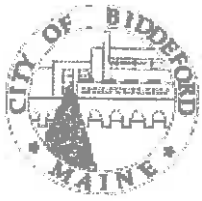


2020.33

IN BOARD OF CITY COUNCIL..MAY 19, 2020

BE IT ORDERED, that the City Council of the City of Biddeford does hereby approve the replacement of two (2) Return Activated Sludge (RAS) Pumps at the Water Street Wastewater Treatment Plant; with the purchase of the RAS Pumps from Wescor Associates, Inc. of Wrentham, MA in an amount not to exceed \$53,160.00. Funds for this project will come from Account 35102-60602.

NOTE: This item will be considered at the May 19, 2020 Finance Committee meeting.



Finance Department

Meeting Date: May 19, 2020

Meeting Time: 6:00 PM

Agenda Item No:

Item Description: (Ras) Return Activated Sludge pumps

Submitted by: Jeff Demers Director Public Works/Waste Water

Supporting Information/Documentation:

4-27-202 Memo from Alex Buechner, Superintendent of Wastewater

3-4-2020 Quotation from Wescor Associates, Inc.

1-15-2020 Letter of Exclusivity

Executive Summary:

The Biddeford Public Works Wastewater Department is looking for the approval for the replacement of two (2) Return Activated Sludge (RAS) pumps at the Water St Waste water treatment facility. These pumps were installed during the 1998 upgrade and are past their life expectancy and are no longer as reliable as needed for this application.

Detailed Review:

The pumps are used in the recycling of sludge through the wastewater plant and are critical to successful operation. Over the past fifteen years, two attempts were made to replace these pumps with a different pump style to increase efficiency. Due to the nature of what is being pumped, both of the replacement pumps had to be constantly disassembled and cleaned to keep them operating. In the end, we were not able to use the new pumps for this application (but used in another location within the plant) and the original pumps were re-installed. It is for this reason that we are recommending that the City replace one of the existing Wemco pumps (original) as well as the Flowserve (from attempted replacement) pump with two new SFF6-L Wemco pumps to match the pumps that have been reliable since 1998. This will require two pumps as well as one motor and base plate.

Funding Source:

Wescor Associates is the sole source provider for Wemco pumps. Funds for this project are located in 35102-60602 with a balance of \$100,000

Staff Recommendation:

Staff recommends purchase from Wescor Associates for the total sum of \$53,160

Alex Buechner
Wastewater Superintendent
April 27, 2020

RAS Pump Replacement

The Biddeford Wastewater Department is seeking approval to spend \$53,160 on the replacement of two (2) Return Activated Sludge (RAS) pumps at the Water St WWTF. These pumps were installed during the 1998 upgrade and are past their life expectancy. The pumps are used in the recycling of sludge through the wastewater plant and are critical to successful operation.

Over the past fifteen years, two attempts were made to replace these pumps with a different pump style to increase efficiency. Due to the nature of what is being pumped, both of the replacement pumps had to be constantly disassembled and cleaned to keep them operating. In the end, we were not able to use the new pumps and the original pumps were re-installed. It is for this reason that we are recommending that the City replace one of the existing Wemco pumps (original) as well as the Flowserve (from attempted replacement) pump with two new SFF6-L Wemco pumps to match the pumps that have been reliable since 1998. This will require two pumps as well as one motor and base plate. Wescor Associates is the sole source provider for Wemco pumps.



Wescor Associates, Inc.

P.O. Box 365
Wrentham, MA 02093

686 South Street

Phone (774)847-4349 cell
Fax (508)384-8953

TO: Alex Buechner
Biddeford ME WWTP
P: 207-205-0469
alex.buechner@biddefordmaine.org

FROM: Shawn Gray
774-847-4349
Shawn@Wescor1.net

Wemco Pumps, Motor, Base & Coupling Quotation

WESCOR ASSOCIATES, INC.

DATE: 03/04/20

P.O. Box 365
Wrentham, MA 02093

ATTN: Shawn Gray

PAGE: 1 of 2

Replacement for exiting Wemco pump Serial Number: 97X15269-71

QTY	PART	NET EACH	TOTAL
2	SFF6-L Horizontal Wemco pump Pricing for this item Includes Freight Note: the original supplied impeller size is no longer available. The quoted impeller, and pump, will meet the duty point at a pump speed of 1670 RPM, the HP demand at this reduced speed is near the motor name plate HP. Therefore, the VFD should be locked to turn at a max speed of 1670 RPM to avoid overloading the motor.	\$ 24,750	\$ 49,500
1	Motor: 40-hp, 1800-RPM, 460-V, inverter duty rated, severe duty, premium efficiency	\$ 1,815	\$ 1,815
1	Motor Base: steel direct connect base w/ FRP guards	\$ 1,265	\$ 1,265
1	Coupling: Viva horizontal inverter rated	\$ 580	\$ 580
		Total	\$ 53,160

☐ EMERGENCY

☐ UPS (NEXT DAY) RED

☐ UPS (2ND DAY AIR) BLUE

ESTIMATED FREIGHT COST (items 2-4): PP&A

SHIPMENT: ~12-14 WEEKS

START-UP: \$1,200 / day, if required

CUSTOMER P.O. NO. _____

DATE: _____

NOTE:

ALEX, AS REQUESTED, HERE IS THE QUOTE FOR THE WEMCO PUMPS, MOTOR, BASE-PLATE AND COUPLING AS REPLACEMENT TO YOUR EXISTING WEMCO RAS PUMPS.

IF YOU WOULD LIKE TO PLACE THE ORDER, PLEASE PROVIDE PO MADE OUT TO:
WESCOR ASSOCIATES, INC.
P.O. BOX 365
WRENTHAM, MA 02093

PLEASE INCLUDE SHIP-TO & BILL-TO ADDRESSES.

FEEL FREE TO CALL OR EMAIL ME WITH QUESTIONS.
THANK YOU.

Shawn Gray
Sales: VT – NH – ME – MA (Essex County)
Cell: 774-847-4349
Shawn@Wescor1.net



[Wescor Associates, Inc.](#)



15 January 2020

To: Massachusetts Water Resources Authority (MWRA)
Subject: Letter of Exclusivity

Trillium Pumps USA SLC LLC is the manufacturer and sole source of WEMCO®, Roto-Jet®, and WSP™ proprietary pumping equipment. We are located in Salt Lake City, Utah, USA, and our federal I.D. number is 87-052-9231. Our pumps are sold worldwide and we have a global network of contracted distributors and representatives.

For WEMCO® Torque-Flow® recessed Impeller pumps, Hydrogritter® grit separation systems, and WSP™ Screw-Flow pumps; WSP™ Self-Primer pumps, Chop-Flow chopper pumps, and Non-Clog pumps; and parts for the aforementioned pumping equipment used in municipal applications in Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut (excluding Fairfield County), please contact our exclusive municipal representative:

Wescor Associates, Inc.
P. O. Box 370
686 South Street
Wrentham, MA 02093
Telephone 508-384-8921

If we are favored with an order, we ask that you issue purchase orders to Wescor Associates, Inc.

Thank you for the opportunity to serve you, and please do not hesitate to contact me if you have any questions.

Best regards,

A handwritten signature in black ink that reads "Katie Bailey". The signature is fluid and cursive, with the first name "Katie" and last name "Bailey" clearly distinguishable.

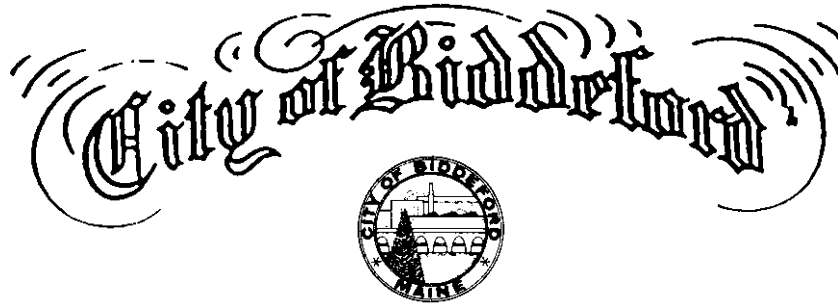
Katie Bailey
Supervisor, Municipal Applications Engineering
801-389-1896

VALVES - PUMPS - SERVICES

Trillium Pumps USA SLC LLC
440 West 800 South
Salt Lake City, Utah 84101
USA

www.trilliumflow.com

O: +1.801-359-8731
F: +1.801-355-9303

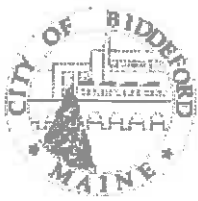


2020.34

IN BOARD OF CITY COUNCIL..MAY 19, 2020

BE IT ORDERED, that the City Council of the City of Biddeford does hereby approve the Lining of the Granite Box Culvert Project on St. Mary's Street. This is a two-part project, with the 3-D scan to be done by The Ted Berry Company in an amount not to exceed \$35,200.00; and the lining of the box culvert to be done by DLVEWS, Inc. in an amount not to exceed \$455,200.00. Funding for this project will come from the CSO Fund.

NOTE: The Finance Committee will consider this item at their May 19, 2020 meeting.



City Council

Meeting Date: May 5, 2020

Meeting Time: 6:00 PM

Agenda Item No: Orders of Day

Item Description: Saint Mary's Lining Project

Submitted by: Jeff Demers, Director Waste Water/Public Works

Alex Buechner, Waste Water Superintendent, Tom Milligan, PE; City Engineer

Supporting Information/Documentation:

3-20-2020 Channeline International-Proposal.

3-20-2020 3-D Scan of box culvert proposal.

Executive Summary:

The project would entail a 3-D scanning of the granite box culvert. Then a PVC plastic lining and added 6" pvc sewer pipe of approximately 214' of Granite box culvert 5'x 5' along the rail road tracks adjacent to the sprint line. Flow able concrete fill will then be injected around the pvc liner. See attached Map #1

Detailed Review:

The box culvert (See attached map #1) that runs along the rail road tracks and heads down behind the diamond match property is a (CSO) Combined Sewer Overflow (CSO07) as of today. This Granite box culvert that was installed in the early 1900's was used for both storm water and waste water in which during high flows discharged to the Saco River within a licensed CSO. As of today with all the separation work that has been completed this box culvert takes one trunk line with an estimated 7 apartment building/homes of waste water from Saint Mary's Street. By lining this box culvert (see attached documents from Don LeBlanc) and running a separate pipe within the box will allow the City to separate out Saint Mary's Street sewer. The saint Mary's street sewer would then run to Horrigan's court pump station. The storm water within the newly lined box would run directly to the Saco River and no longer impact the Horrigan's Court pumping station. This will eliminate CSO #007 completely and help the city continue forward with our agreement with the D.E.P

Funding Source:

CSO Fund 411 with an estimated balance of \$640,500

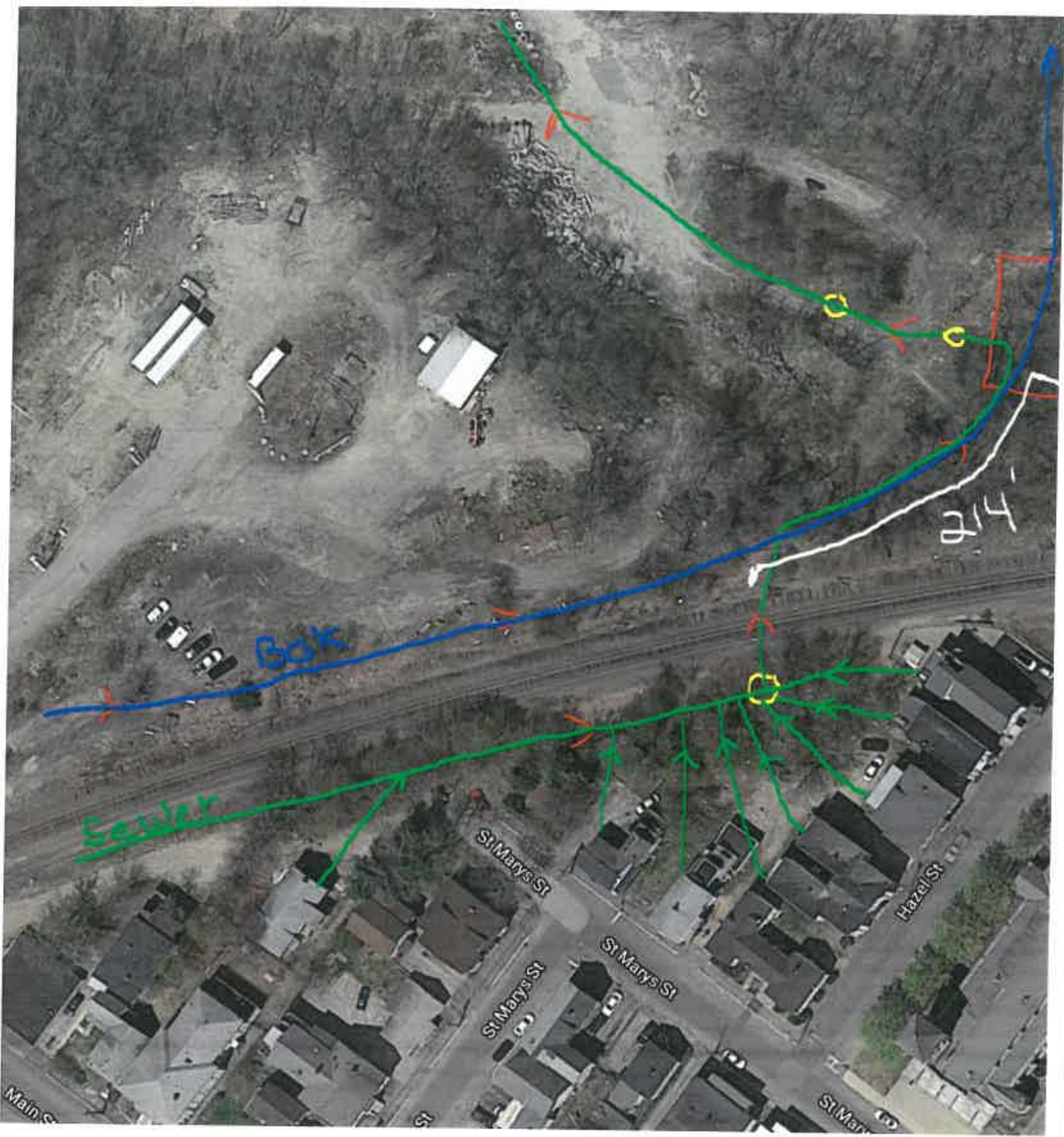
Staff Recommendation:

This is a very unique process. The lining of this type of granite box is specialty work with only one Individual Company in New England for this aspect of this project.

Staff is recommending that the scan be done by The Ted Berry Company. Please see attached quote from the Ted Berry corp. Berry Corp. After several discussions we feel we will need to have the 3D Scan done at \$35,200. The 3D scan will allow the lining company to get an exact dimension and length of the entire box culvert. This will allow the lining company to pre fabricate the lining product prior to install.

Staff is recommending the lining of the box culvert be done by DLVEWS INC. please see the attached quote with option #1 and option #2. Staff recommends option #2. The total cost for the scan and lining of this portion of the project is not to exceed \$455,200

Staff will be available for questions on Tuesday May 19, 2020



MAP #1



City of Biddeford
Wastewater Department
63 Water Street
Biddeford ME. 04005
Attn Alex Buechner

May 5, 2020

Subject: **Multisensor inspection of the St. Mary's box culvert20T0385**

Alex,

Thank you for giving us the opportunity to provide you with a proposal to perform the Multi-Sensor Inspection (MSI) of the existing St Mary's Box culvert. This proposal provides an optioned approach to inspecting the culvert in question using various methods of Multisensor equipment as outlined below

Scope of work: The project includes MSI of approximately 1,100 linear feet of varying sized box culvert approximately 3'X5' made of granite and stone.

Option 1

- Perform digital CCTV Inspection to assess structural condition of existing box culvert.
- Perform above ground location of structure using a tracking Sonde fixed to the transporter
- Perform 2D Lidar and Sonar to determine actual inside dimensions of structure

Option 2

- Perform digital CCTV Inspection to assess structural condition of existing box culvert.
- Perform 3 D Lidar to determine actual geometry and location of existing structure

Ted Berry Company Introduction and Qualifications: Founded in 1972 the Ted Berry Company, LLC. (A Vortex Company) has extensive proven experience in municipal and industrial pipe cleaning, inspection, and trenchless rehabilitation. The Ted Berry Company has completed projects from unplanned emergency services to large scale comprehensive cleaning and CCTV inspection projects.



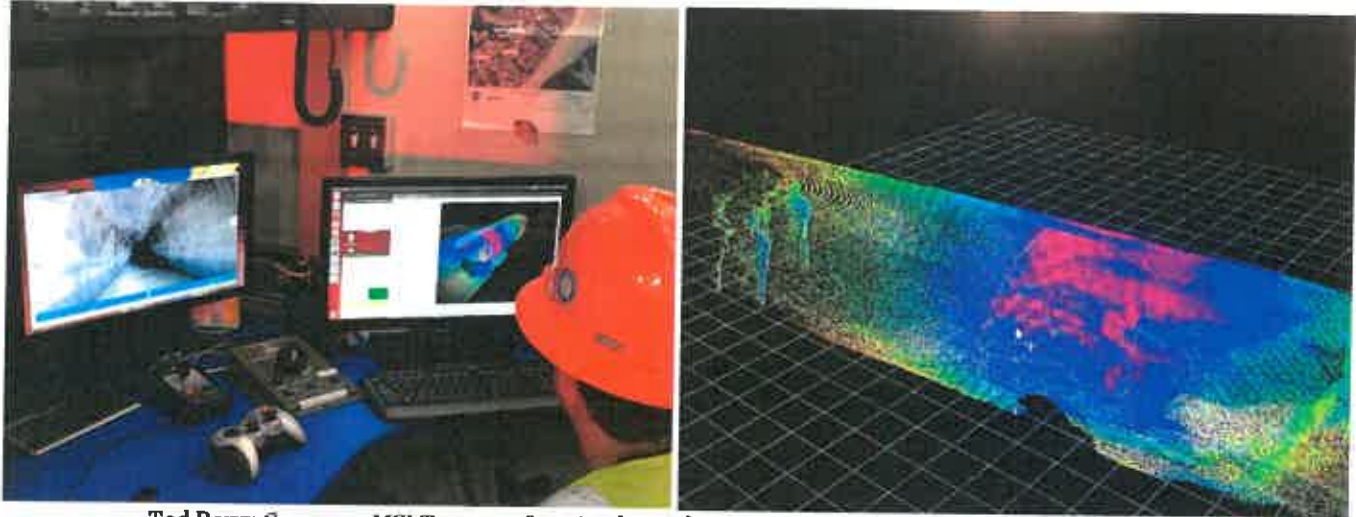
Ted Berry Teams at work

Industrial & Municipal Services • Robotic Pipeline Inspection • Trenchless Technologies

ph 207.897.3348 • fx 207.897.3627 • www.tedberrycompany.com • 521 Federal Road, Livermore, ME 04253



With multiple dedicated MSI inspection units assigned to experienced PACP, MACP, LACP certified operators and technicians; Ted Berry will supply a quality team to perform condition assessment work as inspections are scheduled.



Ted Berry Company MSI Team performing large diameter assessment project for MWRA (Boston, MA)

The Ted Berry Company has spent the last 20+ years working with communities large and small to collect field data through robotic pipeline CCTV inspection. We have been committed to listening to our customers and learning about the things they really need to manage their collections systems. In the process, we have found that collecting data in the field is only a small piece of the puzzle that makes up managing stormwater and sanitary sewer collection systems. The need to have a full-service provider that can collect, analyze, integrate data into existing municipal systems, manipulate, report, and map information was evident. The Ted Berry team has a variety of technical solutions and can integrate both historical and current CCTV inspection data into GIS. The integrated data can be usable across all levels of an organization.

Project Approach and Allocation of Resources -The Ted Berry Company operates under a structure that allows all team members to participate in our success and be held accountable for safety and project performance. This collaborative effort is not common in today's workplace; however, the camaraderie that exists within our company and the pride in work is evident throughout our crews:

Management Team - The Ted Berry Company management team consists of a mix of the ownership, operations staff, administrative staff, and advisors that work collaboratively on achieving defined goals while providing a high level of service to its customers. Operating efficiencies and managing overhead are critical functions of the Management Team. There are daily, weekly, quarterly, and annual goals with KPI's that drive critical decision making all while maintaining close working relationships with our customers.



Field Operations - The Ted Berry Company Field Operations Team is made up of over 70 employees, which comprises between 12-15 daily work teams dependent on the project responsibilities of any given day. The field staff is a highly trained group who are in direct contact with their direct supervisors daily. All field staff are tracked with our internal labor utilization reports which allows operations management to monitor real time where productivity or efficiencies can be gained, there are several key performance indicators (KPI's) regarding individual and project performance. All Ted Berry Company Field Supervisory staff have 'smart phones' and tablets with data packages so communication of critical project data and the company staffing schedule are available real time in the field. All Field Supervisors and Project Managers are OSHA 30 certified and all technicians are OSHA 10 certified.

CUES Inc. / CUES Mapping / Pipeline Inspection Partners Corp. - The Ted Berry Company works closely with our technology provider for the SolidFX MSI system CUES and their sister companies and they will be critical partners to the Ted Berry Company during the planning, execution, and deliverable preparation phases of the project.

The following **employees and equipment** will be designated to the project:

- Project Manager
- PACP/MACP Certified CCTV/MSI operator
- CCTV technician / Confined space entrant
- GIS technician
- CUES GNet technician as needed
- CUES / Pipeline Inspection Partners Corp. MSI technician as needed
- Flow isolation technician to temporarily isolate flows for MSI inspections when prudent
- Mainline CCTV Unit with CUES SolidFX Multi-Sensor inspection equipment including capabilities for HD CCTV, sonar, 2D and 3D LIDAR with float and wheeled transporter
- CUES Inc. will be a technology provider and consultant to the Ted Berry Company

Project Responsibilities

City of Biddeford Wastewater Department: Is the owner of the project:

- Provide as build copies of sewer system mapping. (If available)
- Provide access to all structures and pipelines.
- Provide placement of door hangers or public notifications as needed.
- Provide detailed GIS sewer map with all required asset information including but not limited to pipe type, pipe size, pipe asset ID, manhole ID's, GPS location, street name, etc. Provide access to ESRI Web-GIS system. It would be desirable to create a GIS layer for the inspection work included in this contract.
- Supply and coordinate all traffic control and payment for per local, state, and MUTCD regulations as required to complete the project including but not limited to traffic flagger, uniformed officer detail, and police vehicle.



- Provide for all other requirements of the project not explicitly spelled out in the Ted Berry Company Responsibilities.

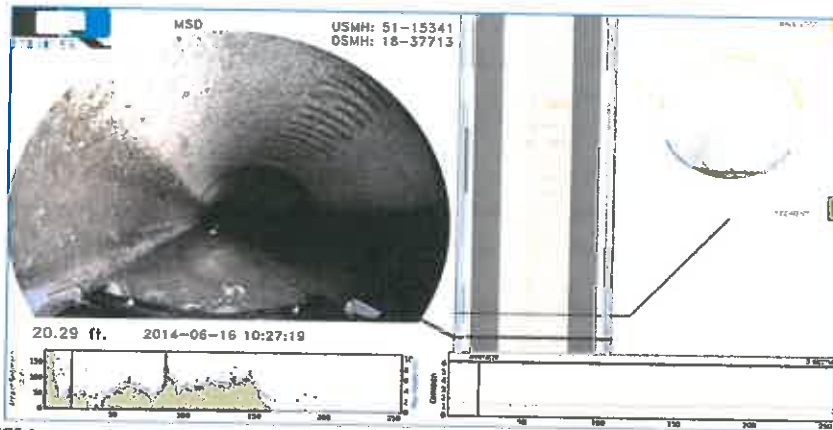
Ted Berry Company, LLC: Will be the contractor of the Project

- Provide a designated senior project manager.
- Provide a written work plan prior to start of work schedule.
 - Provide daily email updates on progress and next day's schedule (end of day report).
- Provide a multi sensor inspection team with all labor, materials, and equipment to complete the project. Inspector will be NASSCO PACP and MACP certified.
- Provide an in-house data management and QA/QC team with GIS technician for data reporting.

Technology Applications: MSI or multi-sensor inspection is used to describe the process of collecting multiple types of inspections at one time and generally includes the following technologies that are configured together to give the highest and most pertinent level of inspection for a pipeline that is generally larger in diameter (24" and larger).

The MSI technology is presented in the field in a simultaneous presentation of the multi-sensor data and provides comprehensive back end processing of data for visual and analytical review by the consultant and owner.

- a) **CCTV inspection** is performed above the water level to provide a NASSCO PACP condition assessment of structural and O&M conditions inside the visible area of the pipe.
- b) **Sonar** is used in pipes with high flow where flow control, isolation, or bypass pumping would be too expensive to include as part of the condition assessment and collects data below the water level to provide owner with the amount of debris that exists in a pipe, identify any voids or loss of invert, and is primarily a hydraulic condition assessment tool not a pipe structural condition assessment tool. When Sonar data is collected it is done via a floating MSI or wheeled Mudmaster platform and when it is collected the pipe beneath the water level is not inspected by Digital CCTV or LIDAR. Sonar data can only be collected when adequate flow is in the pipeline.
- c) **Laser profiling uses LIDAR** (light detection and ranging) to provide a true profile of the pipe wall and is used in conjunction with the visual CCTV inspection to provide a greater condition assessment tool that can identify wall loss (corrosion measurements), give true pipe internal diameter, as well as pipe geometry. Laser profiling is effective above the water or flow level only. Laser profiling can be done in 2D or 3D configurations depending on the need of the City.
 - a. 2D LIDAR is MSI technology that collects data and can see and measure features and defects in the cross section (ovality and pipe size).
 - b. 3D LIDAR is complimentary MSI technology that collects data and can see and measure features and defects in both cross section (ovality and pipe size) and longitudinal dimensions (vertical and horizontal pipe bends). By linking successive scans together true path of the pipe and the shape of the bends can be determined.



Sample data from the MSI inspection viewer that simultaneously presents live HD CCTV (top left), cross sectional LIDAR and Sonar view (top right), integrated LIDAR/Sonar pipe flat view (top center), sediment graph (lower left), and corrosion graph (lower right)

Project Approach (Outline):

1. receive and review Ted Berry Company proposal, evaluate, issue notice of award, negotiate and execute contract documents.
2. Site evaluation
3. Ted Berry receives GIS database, reviews, adds inspection layer, and setup inspection templates per specifications.
4. Ted Berry presents draft project schedule and milestones.
5. Placement of door hangers If applicable
6. Mobilization and Kickoff Meeting at designated location. Begin inspection.
7. Begin Work (CCTV, MSI, Field work)
8. Completion of field work
9. Deliverable (CCTV, Sonar, MSI, GPS) within 30 days

Proposed outline schedule: We are estimating 2 field days of work to complete the task associated with the scope of work. If work could begin on or around June 1st, 2020, we would project a completion and deliverable of July 1st, 2020. This will be largely dependent on the actual conditions found in the pipes, the ability to support our work crews, and weather.

Deliverables Summary: Deliverables will be transferred on a portable hard drive and shipped in a military style Pelican shipping case periodically during the project and in the form of a final deliverable.

A. Provide (2) Copies of CUES GraniteNet® Viewer

- i. Includes all line reports and CCTV condition assessment data in NASSCO PACP format

B. SFX-2D Multi-Sensor Report: Condition Assessment Report (example will be provided) produced from SFX-2D LIDAR data, SONAR data and CCTV. Resultant reports includes 4:1 video showing time



synchronized multi-sensor data including LIDAR and SONAR sensor cross sections and data graphs. Additional MSI report (PDF Document) showing same information along with select distributed cross sections and summary tables.

- C. **SFX-3D Multi-Sensor Report:** Condition Assessment Report produced from SFX-3D LIDAR data, SONAR, and CCTV. Same report as above. 3D LIDAR data is formatted into 2D data for processing and production of same reports. Difference is in the ability to acquire precise cross-sections not affected by sensor misalignment. Also data collected can be used to produce other 3D LIDAR optional reports including CROSS SECTION, BEND, and GEO-LOCATION reports.
- D. **PIPE SEGMENT REPORT:** A variation on the above reports. This report can be produced where the sewer is constructed from sticks of RCP. Same information is provided.
- E. **BEND REPORT:** From 3D LIDAR data only. This report identifies where there are miter bends and or radius bends along a MH-MH segment. The bends are identified (stitched together where necessary) then measured and provided as a report indicating the particular angle or radius and sweep of the bend. Typically provided as a PDF document. Point clouds where bends are identified can be provided as CSV, XYZ or DXF files.
- F. **CROSS SECTION REPORT:** From 3D LIDAR data only. Can be customized to meet specific needs. Generally speaking a collection of 1 FT wide slices of LIDAR data with calculations for HEIGHT, WIDTH, OVALITY, CROSS SECTION AREA, and CROSS SECTION PERIMETER. Typically provided as a PDF document with compilation of cross section images projected against the as-built pipe shape. Metrics can be provided in table and CSV file format. Point clouds where bends are identified can be provided as CSV, XYZ or DXF files.
- G. **GEO-LOCATION REPORT:** From 3D LIDAR data only. Uses MH scans, GPS coordinates of MH, and scans from inside the pipe segment to generate a stitched 'super-cloud' from MH to MH. The 'super-cloud' is provided as a XYZ or DXF file for integration in CAD.

Exclusions, not covered in this proposal by the Ted Berry Company

- Traffic Control including but not limited to police details.
- By-pass pumping of flows.
- Construction of MH Access roads or extraordinary effort needed to access remote pipelines including removal of trees, brush, fences, or other structures to gain access.
- Demolition of pavement, covers, rings, or other structures to access pipes or manholes.
- Bonding.



- Any site restoration including re-pavement of manhole rings and covers, site work to restore lawns or roadways used to access manholes, or other not explicitly spelled out in Ted Berry Company responsibilities.
- Debris to be removed in large diameter pipes (24-inch to 84-inch) If debris prevents the MSI unit from being able to perform the inspection of individual line segments the Ted Berry Company will make all reasonable attempts.
- Mechanical or robotic removal of protruding service taps – If protruding service taps or other pipe protrusions do not allow the MSI equipment to progress through the pipeline, Ted Berry Company will make all reasonable attempts.

Billable Items

Item	Description	Billable units	QTY	Price per unit	Total estimated cost
1.	Option 1: Digital CCTV, 2D MSI, GPS, Above ground location and Deliverable	Per LF	1,100'	\$16.00	\$17,600.00
2.	Option 2 Digital CCTV, 3D MSI and Deliverable	Per LF	1,100,	\$32.00	\$35,200.00
_____ END _____					

All quotes are good for 30 days from date of proposal.

This estimate is given in good faith that Biddeford Wastewater will provide the level of information and support required for a successful project. This estimate is provided prior to draft language and Terms and Conditions. TBC is not anticipating any significant or extraordinary requirements not already provided through the request for services.

Differing conditions

1. **Flows / Flow Levels in the gravity piping higher than anticipated by the owner** - If flows in the wastewater collections system are higher than anticipated a modification to the work plan may be required and shall be paid by the Owner at no additional expense to TBC.

Condition of Property:

The parties acknowledge that the nature of the work to be performed hereunder at the property is such that the sewer line and other characteristics and conditions of the site and property cannot be fully assessed by the Ted Berry Company until the services have commenced. As such, the parties acknowledge that the condition of the property including the sewer lines may necessitate executing applicable change orders. Neither party, at this time, can satisfy itself as to coordination of such schedules and as to the existing condition of all parts of the property and its location, including, without limitation, access to the site, availability, location, and condition of the sewer line, all necessary utilities, climatic conditions, surface



and subsurface conditions, potential exposure to hazardous or toxic wastes and substances, gases and other hazardous conditions and the condition of all improvements in or on the property. Once the actual condition of the property or of any of the other items described above is determined and necessary modifications are mutually agreed upon, the Ted Berry Company shall be responsible for completing the work.

We appreciate the opportunity to provide you with this proposal and look forward to working with you.

Please do not hesitate to contact me at any time to discuss further.

Sincerely,

Dave Beauchamp
Operations Manager
Ted Berry Company, LLC.
Cell: (207)-578-1199
Office: (207)-897-3348
Dave.beauchamp@tedberrycompany.com

Demers, Jeff

From: Buechner, Alex
Sent: Tuesday, May 12, 2020 9:01 AM
To: Demers, Jeff
Subject: FW: Rough budget costs for St Mary's Culvert
Attachments: Attachments.html

Citrix Attachments

Expires November 8, 2020

Option 1 Mockup.jpg 3.7 MB

Option 2 Mockup.jpg 4.3 MB

[Download Attachments](#)

Alex Buechner uses Citrix Files to share documents securely.

From: Don LeBlanc [mailto:don@dlviews.com]
Sent: Monday, May 11, 2020 9:03 AM
To: Buechner, Alex <Alex.Buechner@Biddefordmaine.org>
Subject: Rough budget costs for St Mary's Culvert

Alex –

Taking a stab at the scope of work; likely many things could change before we get it all dialed in as there are still a lot of unknowns. See below:

Option 1 \$140,000

By-pass of sewer and storm water box culvert. We would have to cut into the stone box culvert where the new cross piece of 16' long custom pipe will be going. Route a new sewer line across into the custom crossing notch in the pipe to the opposite side of the stone box. We will have to form and pour cast in place concrete collars from the stone box culvert to the new pipe piece. Backfill everything back to its original form. Includes piping delivered to Biddeford.

NOTE: Nothing has been figured for the sewer run after its on the other side of box culvert.

Option 2 \$420,000

Dig and shore two pits in the stone box culvert. One right at the entry point of the sewer and the other down at the end of the 214' run. We will have to clean the stone box culvert and prepare it for the new 214' channel line liner. We would pour a skim slab throughout the box culvert to ensure liner installation and shelf off to the side for new sewer line. Sewer line will be run down the side of the 214' run and crossed down at the end into the sewer manhole. The channel line pipe will have a custom spot on the side for the sewer pipe to run in along side the storm water. After the 214' of liner is in we will build grout retaining bulkheads on both ends. Pump light weight cellular concrete into annular space between stone box culvert and new channel line pipe. Custom cast in place concrete collars will be poured to make the

connection from the stone box to the new pipe on both ends. Backfill site to original condition. Includes piping delivered to Biddeford.

NOTE: Figured that sewer would be able to go right into the manhole at the end. Nothing figured if it has to go to the other manhole or lines of to the side of the culvert.

I hope this is helpful. Once again, I'd be glad to get together with you, Tom, and Jeff and discuss logistics of flows and tie-ins, etc. Let me know how I can help.

Thanks,

Don LeBlanc, P.E.*
President
DLVEWS, Inc.
P: 207-992-3080
E: don@dlviews.com
*State of Maine



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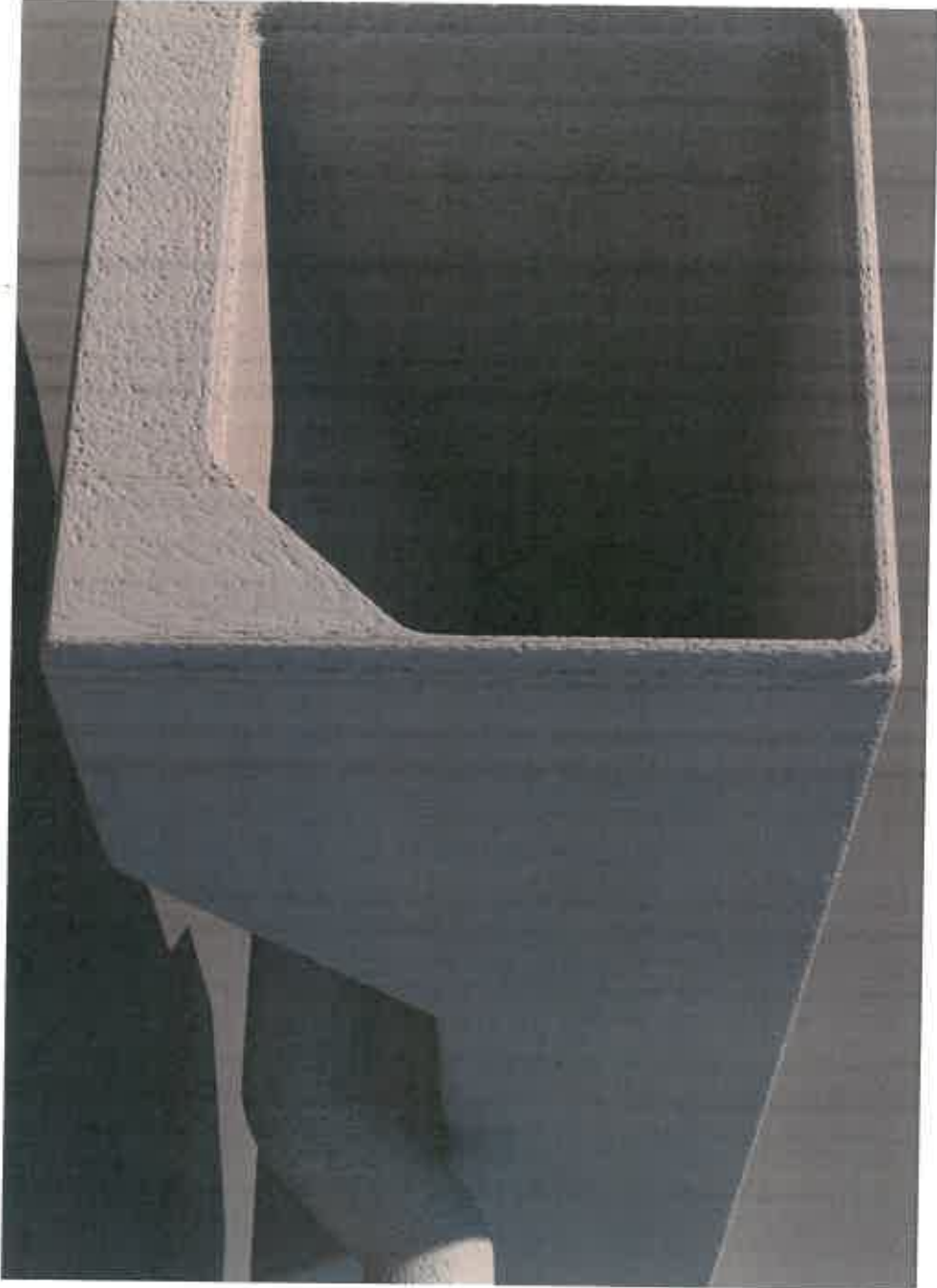
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- Inflow and Infiltration Solutions (Cretex)

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Option #1





Option #2