



City of Augusta, Maine
Department of Public Works

May 25, 2018

Memo to: Bill Bridgeo, City Manager

From: Lesley Jones, P. Elsey
Director of Public Works

RE: Hatch Hill Methane to Electricity
Building Contract Award - City Project # 218051

We have been working on the landfill methane gas to electricity project since early 2017. The goal of this project is to collect the methane gas generated from the landfill and use it to fuel a generator which in turn will create electricity that will be fed into the CMP electrical grid. The electricity produced at Hatch Hill will be "net metered" back to offset the electricity used by one meter at Hatch Hill and nine City accounts with the largest electrical usage. These include the Cony/CATC complex, Farrington and Gilbert schools. In addition to the Augusta Civic Center, the Buker Community Center, Public Works and Naval Reserve complex. Work to date has included an economic feasibility study and the project cost for the required buildings and infrastructure. To keep the City Council up to date on this exciting project, we have had several informational meetings and City council orders to approve expenditures along the way. These include:

- Approval for the installation of 3 phase power out to the landfill which is needed for the project and will benefit the Hatch Hill operations in general. The three phase power is going to be installed along South Belfast Avenue (currently the single phase power comes in from Rte. 3 and through the woods on the original poles) which will help make it more reliable. Additionally, the 3 phase power will be available to anyone along the new route who might be interested in having 3 phase power available to them.
- Presentation of preliminary project plans and economic feasibility which was approved allowing the project to go to final design.
- Approval of final project plans which allowed for pre-procurement of the generation equipment and the project to go to bid.
- Additionally while the project feasibility and design were moving forward, this project also required Planning Board approval and approval from the Maine Department of Environmental Protection (MDEP) for modifications to both the MDEP solid waste and air licenses that Hatch Hill is required to have to operate the landfill and gas collection system.
- Final Step! Secure a contractor to build the Methane Operations Building, install the methane gas line to this new building, rework the electrical distribution within the Hatch

Physical Address:
Augusta Public Works
55 North Street, Augusta, ME 04330

Mailing Address:
Augusta Public Works
16 Cony Street, Augusta, ME 04330-5298

Tel (207) 626-2435 Fax (207) 626-2437 TDD (207) 626-2370

Hill site to get 3 phase power to the necessary buildings and pump stations and finally hook up the generator and start making electricity! To accomplish this last step, we opened bids for this project on May 10, 2018, a bid recap and Notice of Award to Quirion Construction of Augusta, Maine is attached. Quirion Construction is a well-respected local contractor and is using local sub-contractors for this project.

The total construction contract amount is \$2,662, 835.50. This is within the allotted budget, with the methane project paying for 80% and Hatch Hill operations paying for 20% of the project costs .The Hatch Hill Enterprise account will finance the project and will be paid back as electricity is net metered to the ten City accounts. We are very excited to be working with Quirion Construction on this project which has a completion date of November of 2018! I would like to thank everyone who has worked on and supported this important project to get it to this stage.

cc: Ralph St. Pierre, Assistant City Manager
Randy Tome, Woodard and Curran

NOTICE OF AWARD

Date: May 21, 2018

Project: Hatch Hill Landfill Gas to Energy Project

Owner: City of Augusta, Maine

Owner's Contract No.: 218051

Contract: Construction

Engineer's Project No.: 203453.03

Bidder: Quirion Construction, Inc.

Bidder's Address: 712 West River Road
Augusta, ME 04330

You are notified that your Bid dated May 10, 2018 for the above Contract has been considered. You are the Successful Bidder and are awarded a Contract for the Hatch Hill Landfill Gas to Energy Project subject to the following requirements being met.

You must comply with the following conditions precedent **within 10 days** of the date you receive this Notice of Award.

1. Deliver the Contract security (Bonds) as specified in the General Conditions and Supplementary Conditions (Articles 2 and 5);
2. Deliver the insurance certificates indicating coverages as specified in the General Conditions and Supplementary Conditions (Articles 2 and 5);

Failure to comply with the above conditions within the time specified will entitle the Owner to consider you in default, annul this Notice of Award, and declare your Bid security forfeited.

After confirming that you have complied with the above conditions, Owner will deliver the conformed Contract Documents for execution.

City of Augusta, Maine

Owner

By: _____

Authorized Signature

City Manager

Title

Copy to Engineer

203453.03
Issue Date: April 2018

HATCH HILL LANDFILL
GAS TO ENERGY PROJECT
AUGUSTA, MAINE

Addendum No.	Addendum Date
1	4-20-2018
2	4-27-2018
3	5-4-2018
4	5-7-2018

3.04 Bidder acknowledges the representations and certifications included in Section 00 45 05 are made a condition of the Bid.

3.05 Bidder acknowledges the provisions of the Agreement as to the assignment of the procurement contract(s) for procurement of goods and special services for landfill gas dehydration and energy generation equipment procurement.

ARTICLE 4 - BASIS OF BID

4.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s) based on unit prices included in the following schedule. Bidder must complete all items.

ALL BID PRICES SHALL EXCLUDE SALES AND USE TAX.

BASE BID ITEMS

Item No.	Item Description with Unit Price in Written Words	Estimated Quantity & Unit	Total Bid Item Price	
			Dollars	Cents
1	Administration (not to exceed 10% of total bid) a. One Hundred Fifty Thousand	Lump Sum	\$150,000.00	
	Dollars and 00 Cents LUMP SUM		\$137,438	
2	Site Work & Building Construction a. Seven Hundred Eighty Thousand	Lump Sum	\$780,000.00	
	Dollars and 00 Cents LUMP SUM		\$756,810	
3	Installation of 8-inch HDPE Gas Collection Piping a. One Hundred Eighty Thousand	Lump Sum	\$180,000.00	
	Dollars and 00 Cents LUMP SUM			

(\$12,562 savings due to reduction in insurance requirements)

(\$23,190 savings due to reduction in pavement patch & electrical ductbank encasement)

WOODARD & CURRAN

BID FORM
00 41 01-2

203453.03
Issue Date: April 2018

HATCH HILL LANDFILL
GAS TO ENERGY PROJECT
AUGUSTA, MAINE

Item No.	Item Description with Unit Price in Written Words	Estimated Quantity & Unit	Total Bid Item Price	
			Dollars	Cents
4	Gas Dehydration Skid & Generator Allowance Eight hundred twenty-six thousand eighty-seven Dollars and fifty Cents LUMP SUM	Lump Sum	\$826,087.50	
5	Structural Rock Excavation Sixty-Two Thousand Five Hundred Dollars and 00 Cents \$250.00 PER CUBIC YARD	250 Cubic Yards 50	\$62,500.00 12,500.00	
6	Installation of Underground Utility Conduit and Wires from Proposed Operations Building to Existing Compactor Building Existing Flare and Existing Leachate Pump Station Seven Hundred Fifty Thousand Dollars and 00 Cents LUMP SUM	Lump Sum	\$750,000.00	

(Potential \$50,000 savings due to anticipated ledge quantity*)
*actual quantity may vary.

TOTAL BASE BID PRICE (based on Lump Sum and Unit Price Schedule above)

Two Million Seven Hundred Forty-Eight Thousand Five Hundred Eighty-Seven

Dollars and

Fifty

Cents

(Use words)

*Quirion Construction, Inc.'s pricing is submitted only if following is added to the contract:

Quirion Construction, Inc. shall, after receipt of the Notice to Proceed and prior to the commencement of construction, deliver to Customer payment and performance bonds in a sum equal to the Contract Cost. The Payment and Performance Bonds shall only apply to the installation portion of this Agreement and do not apply in any way to energy production (efficiency) guarantees, payments or maintenance provisions, except that the performance bond shall guarantee that the installation will be free of defective materials and workmanship for a period of twelve (12) months following completion and acceptance of the work.

\$ 2,662,835.50

~~\$ 2,748,587.50~~

(Use figures)

Total reduction of
\$ 85,752.00

WOODARD & CURRAN

BID FORM
00 41 01-3