

ERIE COUNTY WATER AUTHORITY
 AUTHORIZATION FORM
 For Approval/Execution of Documents
 (check which apply)

Contract: GHD-007 **Project No.:** 201800138
Project Description: Guenther Pump Station Rehabilitation

Item Description:

Agreement Professional Service Contract Amendment Change Order
 BCD NYSDOT Agreement Contract Documents Addendum
 Recommendation for Award of Contract Recommendation to Reject Bids
 Request for Proposals
 Other _____

Action Requested:

Board Authorization to Execute Legal Approval
 Board Authorization to Award Execution by the Chairman
 Board Authorization to Advertise for Bids Execution by the Secretary to the Authority
 Board Authorization to Solicit Request for Proposals
 Other _____

Approvals Needed:

APPROVED AS TO CONTENT:

<input checked="" type="checkbox"/> Other (if Applicable)	<u><i>Michael Aguirre</i></u>	Date: <u>5/13/2020</u>
<input checked="" type="checkbox"/> Chief Operating Officer	<u><i>Russell J. Stoll</i></u>	Date: <u>5/13/2020</u>
<input checked="" type="checkbox"/> Executive Engineer	<u><i>Leonard F. Romalek</i></u>	Date: <u>5/12/2020</u>
<input checked="" type="checkbox"/> Director of Administration	<u><i>Laronya Lester</i></u>	Date: <u>5/12/2020</u>
<input checked="" type="checkbox"/> Risk Manager	<u><i>Molly Jo Musarra</i></u>	Date: <u>05/13/2020</u>
<input checked="" type="checkbox"/> Chief Financial Officer	<u><i>Karen A. Pendergast</i></u>	Date: <u>05/13/2020</u>
<input checked="" type="checkbox"/> Legal	<u><i>Margaret A. Murphy</i></u>	Date: <u>05/13/2020</u>

APPROVED FOR BOARD RESOLUTION:

<input checked="" type="checkbox"/> Secretary to the Authority	<u><i>[Signature]</i></u>	Date: <u>05/13/2020</u>
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Remarks: Professional Services Contract Amendment #1.

Resolution Date: _____ **Item No:** _____



ERIE COUNTY WATER AUTHORITY

INTEROFFICE MEMORANDUM

May 12, 2020

To: Terrence D. McCracken, Secretary to the Authority

From: Leonard F. Kowalski, Executive Engineer & Clayton J. Johnson, Production Engineer *CJJ LFK*

Subject: GHD-07 - Guenther Pump Station Rehabilitation
Amendment No. 1 – Professional Services for Building Addition Design and
Construction
ECWA Project No. 201800138

Attached is Amendment No. 1 to the Professional Services Contract with GHD for additional engineering services for the above referenced project.

During the proposal stage it was anticipated that the new permanent generator would be housed in a manufacturer provided enclosure and that the new electrical equipment would be housed inside of the existing pump station. As the consultant began to lay the project out during the basis of design stage, it became evident that space would be at a premium inside of the pump station. Instead of overcrowding the existing footprint with new electrical equipment, operationally it became evident that a building addition was required. The building addition will house the following: electrical room, permanent generator and fuel tank rooms, garage/storage room for line maintenance crews and a restroom.

To put this pump station and project into perspective, Guenther Pump Station is being redesigned to be used daily and has a small footprint when compared to Ball Pump Station. Both Guenther and Ball will pump approximately 15-20 MGD on an average day and size wise Guenther is about one third the size of Ball. Space was a concern during the proposal phase, but it really became evident once the basis of design phase was underway.

The addition will eliminate any concern of installing new equipment inside of the existing building, will provide more space to meet clearances per the electrical code and will make maintenance of the equipment safer.

Based on ECWA's experience with permanent diesel generators, especially at the Ball Pump Station, housing the generator indoors prolongs the life and reliability of the generator. The new generator and fuel tank rooms are modeled after the Ball Pump Station generator building. This type of housing is more consistent with ECWA's permanent generators at other facilities such as

LFK:CJJ:jmf

Attachments

cc: R.Stoll

L.Kowalski

M.Wymer

L.Lester

ECWA-379-2001-X-12

the Ball Pump Station and Sturgeon Point WTP.

Aside from providing more space for the electrical equipment and prolonging the life of the generator, the addition will also act as a hub for Line Maintenance crews working in the southern Central Service Area. The addition will contain a new storage/garage area which can be used to store material used to repair watermains. This will allow crews to more efficiently and cost effectively perform work in our southern service area because crews will be able to pick up materials from the Guenther Pump Station rather than having to travel to the Service Center.

The Guenther Pump Station building addition directly supports ECWA's Comprehensive Strategic Initiative No. 1 Resiliency of ECWA Infrastructure and Assets by focusing on the resiliency of key ECWA assets such as the permanent diesel generator.

The building addition directly supports ECWA's Comprehensive Strategic Initiative No. 5 Enhance Customer Service because the new line maintenance storage area provides a more accessible location and staging area for line maintenance crews to more effectively service customers in the southern Central Service Area.

The building addition also directly supports ECWA's Comprehensive Strategic Initiative No. 7 Emergency Preparedness because the permanent generator will allow the pump station to operate during a power outage and better meet the needs of customers during emergencies. The enclosed generator will also prolong the life of the generator and help to decrease maintenance requirements. The new line maintenance garage will provide additional space for staging ECWA operations, especially line maintenance crews and pump mechanics, giving ECWA staff another location to work from. The need for additional staging areas is especially critical during pandemics, such as the current COVID-19 pandemic.

The following documents are attached:

- Blue Authorization Form - this form provides the project name and project number, the action that is being requested of the Board, and it provides a list of approvals that are required prior to being acted on by the Board.
- Amendment signed by the Consulting Engineer and the Executive Engineer.

LFK:CJJ:jmf

Attachments

cc: R.Stoll

L.Kowalski

M.Wymer

L.Lester

ECWA-379-2001-X-12



May 12, 2020

Reference No. 11183699

Original Sent Via Email

Clayton J. Johnson, PE
Production Engineer
Erie County Water Authority
3030 Union Road
Buffalo, New York 14227

Dear Mr. Johnson:

**Re: Proposal for Professional Services
Building Addition Design and Construction
Guenther Pump Station Rehabilitation
ECWA Project No. 201800138 – Contract No. GHD-007**

GHD is pleased to submit this proposal per the Erie County Water Authority's (ECWA) request to provide engineering design and construction phase services related to a building addition to the Guenther Pump Station (PS).

During the development of the basis of design report (BODR) for rehabilitating the station and incorporating resiliency measures, it became evident that additional building space was required. The original concept of locating the emergency generator outdoors in a manufacturer supplied weather-tight enclosure and placing the new electrical equipment within the existing station footprint proved very difficult to achieve while providing the needed access for operation and maintenance activities. It was determined that a building addition was required to provide the space necessary for the new electrical equipment, to move the generator indoors for improved access and maintenance, provide for indoor fuel storage, and a space for maintenance equipment. The most efficient approach was determined to be a building addition off the west side of the existing structure necessitating demolition of the defunct chemical room. The proposed addition will incorporate a new lavatory to accommodate ECWA maintenance crews as the pump station is repurposed for continuous pumping operations.

ECWA and GHD engineering staff prepared a preliminary floorplan for the building addition to house the critical items listed above.

1. Scope of Services

GHD's proposed scope of services includes the following items:

- 1.1 Providing architectural, structural, HVAC, electrical and site civil professional engineering design services for a building addition as generally depicted in the attached Figure.



- 1.2 Demolition of the existing chlorine storage room and restroom to allow for construction of the addition.
- 1.3 The proposed addition will be a slab on grade construction with no basement. We envision the building will be brick and block style construction with a flat roof. Efforts will be made to aesthetically blend in with the existing station, but some exterior features are not planned (i.e., concrete façade on the intake louvers and glazed exterior brick).
- 1.4 A new ADA-compliant restroom will be incorporated in the design. No showers or locker room facilities are planned.
- 1.5 A generator room with appropriately designed intake and exhaust louvers to the exterior. Electrical components will be appropriate for the room's hazard designation.
- 1.6 A generator fuel storage room meeting the current NYS Building Code (effective May 2020) for "high-hazard occupancy". Interior fuel storage of this magnitude requires fire suppression, fire alarm and detection system, emergency alarm system, and carbon monoxide detection and notification system. The generator requires significant airflow for cooling, which could result in freezing of a liquid-filled water fire suppression system. We recommend a dry-pipe fire sprinkler system for this room. Electrical components will be appropriate for the room's hazard designation.
- 1.7 A room for general storage of water distribution materials such as PVC pipe and portable generators.
- 1.8 A dedicated electrical room for new power distribution panels and protective devices involved in converting the station from 4160 volts to 480 volts.
- 1.9 Interior LED lighting with wall-mounted switches and convenience outlets in each room. Exterior wall pack LED lights will be located at each door.
- 1.10 Heating and ventilation for intermittent occupancy. Gas-fired unit heaters will provide heat.
- 1.11 Site civil design will include new paved areas around the building addition and a new perimeter fence compliant with current AWWA standards. A motorized gate will be included with conduit for a security reader to be provided by ECWA later. The existing septic tank will be relocated to the north and reconnected to the existing leach field. A revised health department permit is not anticipated.
- 1.12 Bid phase services associated with the building addition.
- 1.13 Construction contract administration services including shop drawing reviews and responses to requests for information associated with the many components of a building addition of this size. We anticipate the pump station construction duration will be extended by 4 months due to the building addition, which results in additional progress meetings.



1.14 Additional resident project representative time will likely be required by the extended construction period mentioned above and the budget will be addressed at a future time when conditions are better known.

2. Proposed Schedule and Fee

GHD will complete the above design phase services within the schedule previously agreed to by ECWA, if written authorization to proceed is issued by June 1, 2020.

We propose to complete the above scope of services for a lump sum fee of \$183,800, as detailed in the attached level of effort table. We understand that if this proposal is acceptable, the ECWA intends to process an amendment to our existing engineering agreement and those terms and conditions will apply.

We appreciate the opportunity to submit this proposal. If you have any questions or comments, please do not hesitate to contact our office.

Sincerely,

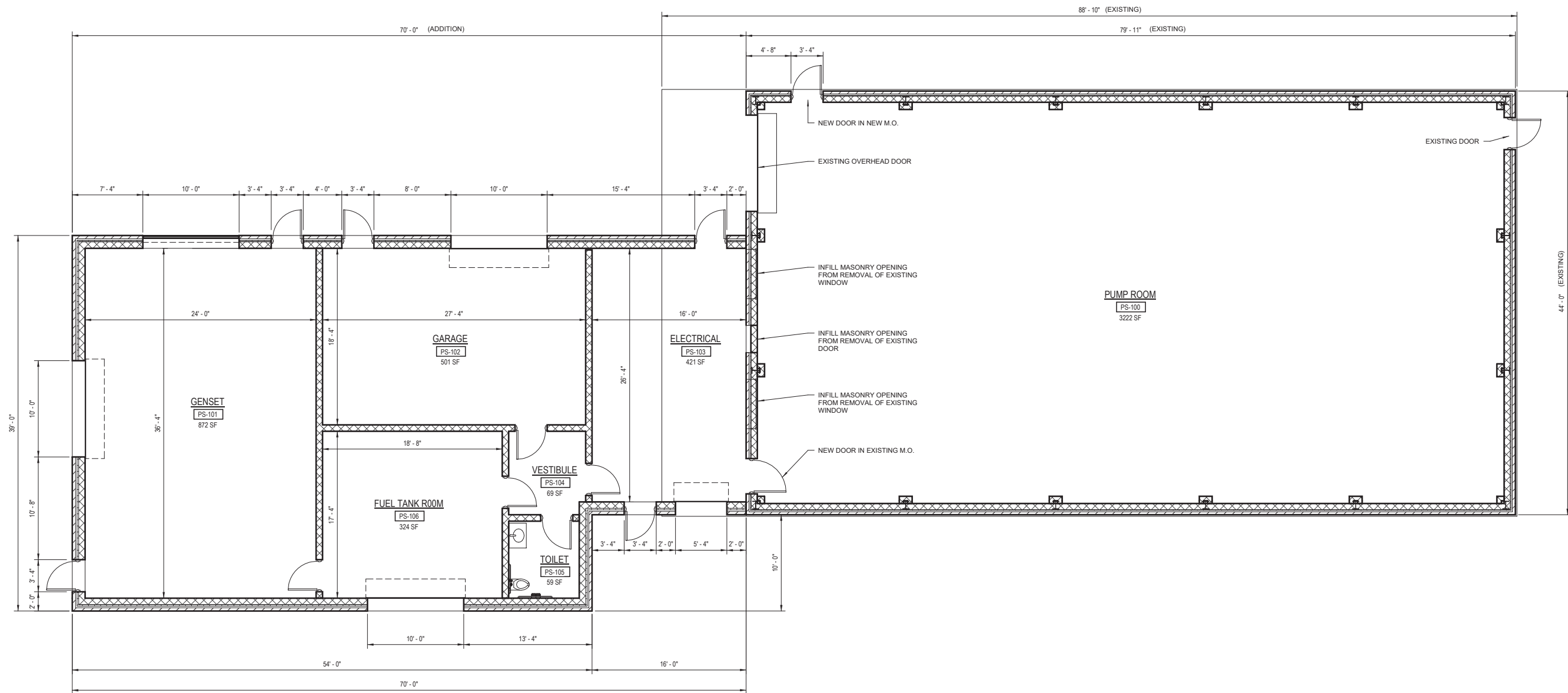
GHD

A handwritten signature in blue ink that reads "Paul J. McGarvey". The signature is written in a cursive style with a large, stylized "M" and "G".

Paul J. McGarvey, P.E., BCEE
Project Director

PJM/las/4

Attachments: Figure (A003)
Level of Effort Table



1 FLOOR PLAN
3/16" = 1'-0"

PRELIMINARY

<p>Notes Underground facilities, structures, and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.</p> <p>It is a violation of New York State education law for any person, unless acting under the direction of a licensed professional engineer, to alter an item on this drawing in anyway. If an item is altered, the altering engineer shall affix to the item his/her seal and the notation "altered by" followed by his/her signature and date of such alteration and a specific description of the alteration.</p>					<p>Bar is one inch on original size sheet 0 1"</p>		<p>Reuse of Documents This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD and shall not be reused in whole or in part on any other project without GHD's written authorization. © 2018 GHD</p>		<p>GHD GHD Consulting Services Inc. 285 Delaware Avenue, Suite 500 Buffalo NY 14202 USA T 1 716 856 2142 F 1 716 856 2160W www.ghd.com</p>		<p>Drawn T.LORING Designer T.LORING Drafting Check C.SMITH Design Check S.BLAIS Project Manager P.MCGARVEY Date MARCH 2020</p>		<p>Client ERIE COUNTY WATER AUTHORITY Project GUENTHER PUMP STATION REHABILITATION Title FLOOR PLAN Project No. 111-83699 Original Size Arch D Sheet No. A003</p>	
<p>SCALE: 3/16" = 1'-0"</p>														
<p>A 30% PRELIMINARY DESIGN</p>					<p>XXX 03/2020</p>									
No.	Issue	Drawn	Approved	Date										



LEVEL OF EFFORT

Generator Building Addition Amendment
Guenther Pump Station
ECWA Project No. 201800030/GHD-007
GHD Project 11183699

TASK DESCRIPTION	Project Manager	Sr Architect/Fire Protection Eng	Sr. Engineer	HVAC/Plumb Engineer	Electrical Engineer	Structural Engineer	Architect/Engineer	Sr. CADD	CADD	RPR	Administrative Assistant	Total Hours	Subcontractor Costs	Total Cost
1. Site Civil	4		60						140		8	212	\$0	\$26,100
2. Architectural/Structural	10	62	8			204	127	84	124		24	643	\$0	\$84,400
3. Mechanical, Electrical & Plumbing	5		8	60	20			40	40		24	197	\$0	\$24,700
4. Fire Protection	2	32							40		8	82	\$0	\$9,500
5. Construction Administration														
5a. Bidding	8	4					12				16	40	\$0	\$3,900
5b. Submittals	10	24		12	20	24	40	20			60	210	\$0	\$23,800
5c. RFI and Changes	10	12			4		16				4	46	\$0	\$6,600
5d. Additional Meetings	24											24	\$0	\$4,800
6. Resident Project Representative (TBD)												0	\$0	\$0
Total Hours	73	134	76	72	44	228	195	144	344	0	144	1,454	\$0	\$183,800
Typical Classification Rates (\$/HR)	205-220	170	205	160-170	155	140	135-140	120	100	125	70			

**AMENDMENT NO. 1 TO
PROFESSIONAL SERVICES CONTRACT**

AMENDMENT, effective May 21, 2020 (“Amendment No. 1”), to the Professional Services Contract, entered on the 5th day of September 2018, by and between

ERIE COUNTY WATER AUTHORITY
295 Main Street, Room 350
Buffalo, New York 14203

hereinafter referred to as the “Authority,” and

GHD CONSULTING SERVICES, INC.
285 Delaware Avenue, Suite 500
Buffalo, New York 14202

hereinafter referred to as the “Engineer.”

WHEREAS, on August 30, 2018 the Authority awarded the Engineer a professional service contract to provide engineering and consulting services relating to the rehabilitation and capital improvement of the Guenther Pump Station (the “Contract”); and

WHEREAS, under the Contract’s scope of services, the Authority sought to locate an emergency generator outdoors in a manufacturer supplied weather-tight enclosure and to place new electrical equipment within the existing station footprint; and

WHEREAS, during the development of the basis of design report for rehabilitating the station and incorporating resiliency measures, it became evident to the Engineer and the Authority that additional building space was required to achieve the needed access for operation and maintenance activities; and

WHEREAS, based on the recommendation of the Authority’s Chief Operating Officer and Executive Engineer, the Authority seeks to amend the Contract by expanding the scope of services allowing the Engineer to design a building addition to provide the space necessary for the new electrical equipment, to move the generator indoors for improved access and maintenance, and to provide indoor fuel storage and a space for maintenance equipment; and

WHEREAS, in accordance with paragraph 5 of the Contract, no modification or variation from the terms of the Contract shall be effective unless it is in writing and authorized by a resolution of the Board of Commissioners of the Authority (the “Board”) and signed by all parties;

NOW, THEREFORE, in consideration of mutual promises herein set forth, the parties agree to the following:

(1) The scope of services, in paragraph 2 of the Contract, is supplemented to include the following:

- (a) Providing architectural, structural, HVAC, electrical and site civil professional engineering design services for a building addition as generally depicted in the attached Figure in Appendix A.
- (b) Demolition of the existing chlorine storage room and restroom to allow for construction of the addition.
- (c) The proposed addition will be a slab on grade construction with no basement. We envision the building will be brick and block style construction with a flat roof. Efforts will be made to aesthetically blend in with the existing station, but some exterior features are not planned (i.e., concrete façade on the intake louvers and glazed exterior brick).
- (d) A new ADA-compliant restroom will be incorporated in the design. No showers or locker room facilities are planned.
- (e) A generator room with appropriately designed intake and exhaust louvers to the exterior. Electrical components will be appropriate for the room's hazard designation.
- (f) A generator fuel storage room meeting the current NYS Building Code (effective May 2020) for "high-hazard occupancy". Interior fuel storage of this magnitude requires fire suppression, fire alarm and detection system, emergency alarm system, and carbon monoxide detection and notification system. The generator requires significant airflow for cooling, which could result in freezing of a liquid-filled water fire suppression system. We recommend a dry-pipe fire sprinkler system for this room. Electrical components will be appropriate for the room's hazard designation.
- (g) A room for general storage of water distribution materials such as PVC pipe and portable generators.
- (h) A dedicated electrical room for new power distribution panels and protective devices involved in converting the station from 4160 volts to 480 volts.
- (i) Interior LED lighting with wall-mounted switches and convenience outlets in each room. Exterior wall pack LED lights will be located at each door.
- (j) Heating and ventilation for intermittent occupancy. Gas-fired unit heaters will provide heat.

- (k) Site civil design will include new paved areas around the building addition and a new perimeter fence compliant with current AWWA standards. A motorized gate will be included with conduit for a security reader to be provided by ECWA later. The existing septic tank will be relocated to the north and reconnected to the existing leach field. A revised health department permit is not anticipated.
- (l) Bid phase services associated with the building addition.
- (m) Construction contract administration services including shop drawing reviews and responses to requests for information associated with the many components of a building addition of this size. We anticipate the pump station construction duration will be extended by 4 months due to the building addition, which results in additional progress meetings.
- (n) Additional resident project representative time will likely be required by the extended construction period mentioned above and the budget will be addressed at a future time when conditions are better known.

(2) The Engineer will complete the design phase services within the schedule previously agreed to by the Authority's Engineering Department, so long as the Engineer is given written authorization to proceed by June 1, 2020.

(3) The parties agree to amend paragraph 3, subparagraph D to increase the lump sum for design report services by \$144,700, changing the current figure of \$107,000 to \$251,700.

(4) The parties agree to amend paragraph 3, subparagraph D to increase the lump sum for general services by \$39,100, changing the current figure of \$91,100 to \$130,200.

(5) The parties agree all other terms and conditions of the Contract shall remain without change or amendment.

(6) This Amendment may be executed in counterparts, each of which is deemed an original, but all of which together are deemed to be one and the same agreement; and

(7) The parties agree to accept electronic signature pages, signed in conformity with the Governor's Executive Order No. 202.7, allowing any notarial action to be performed utilizing audio-video technology.

IN WITNESS WHERETO, the parties hereto have caused this Amendment No. 1 to be signed by their respective duly constituted officers, attested and sealed pursuant to proper authority.

ERIE COUNTY WATER AUTHORITY

By _____
Jerome D. Schad, Chair

GHD CONSULTING SERVICES, INC.

By _____
Robert P. Lannon Jr., P.E., Vice President

STATE OF NEW YORK)
COUNTY OF ERIE) ss:

On the _____ day of _____, in the year 2020, before me personally came Jerome D. Schad, to me known, who, being by me duly sworn, did depose and say that he resides in Amherst, New York, that he is the Chair of the Board of Commissioners for the Erie County Water Authority described in the above instrument; and that he signed his name thereto by order of the Board of Commissioners.

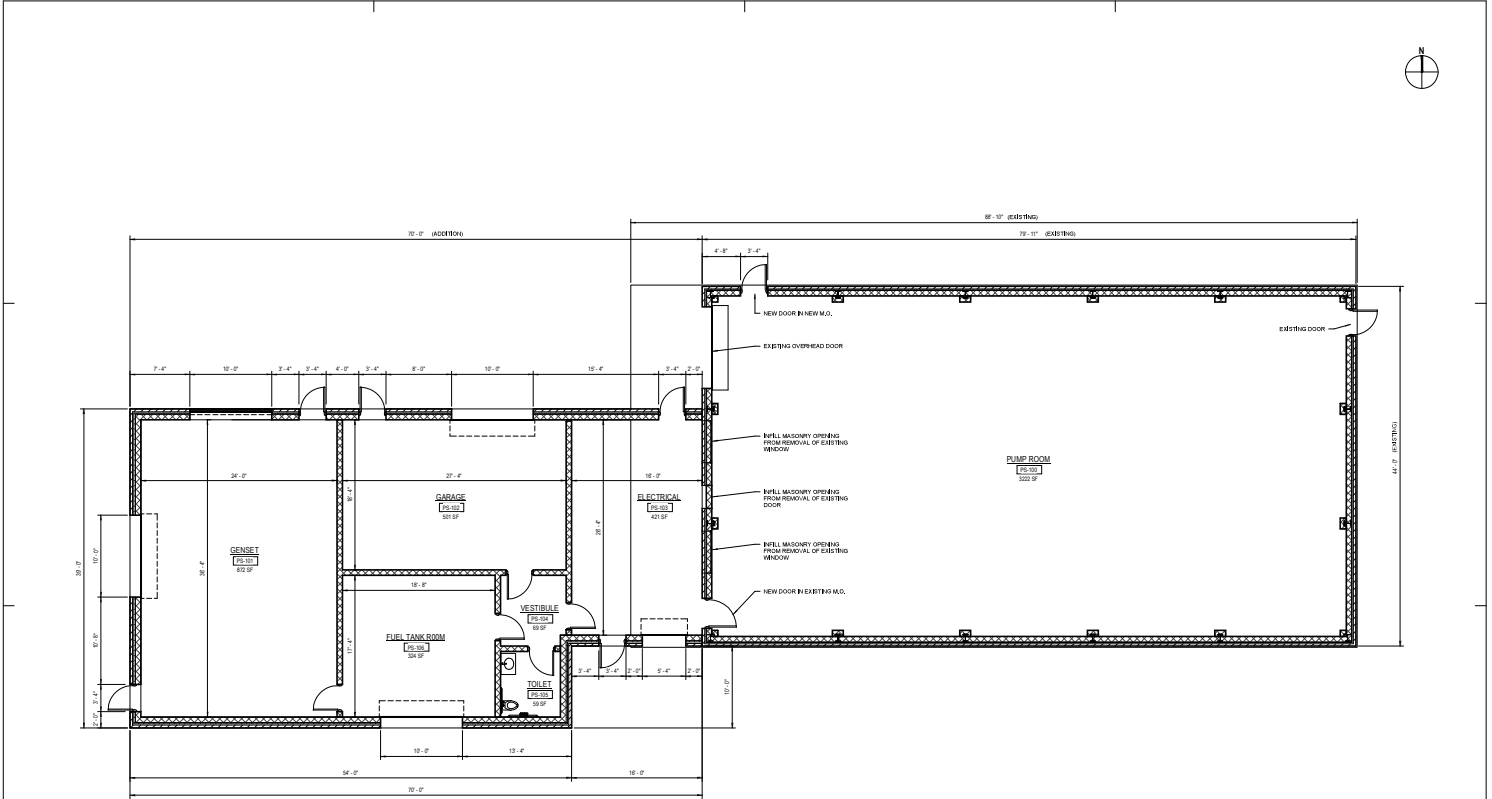
Notary Public

STATE OF NEW YORK)
COUNTY OF ERIE) ss:

On the _____ day of _____, in the year 2020, before me personally came Robert P. Lannon Jr., P.E., Vice President, to me known, who, being by me duly sworn, did depose and say that he resides in _____, New York, that he is the Vice President of the Corporation described in the above instrument; and that he signed his name thereto by order of the Board of Directors of said Corporation.

Notary Public

APPENDIX A



1 FLOOR PLAN
3/8" = 1'-0"

PRELIMINARY

<p>Notes</p> <p>1. Unannotated fixtures, appliances, and other hardware shall be removed, stored, and reinstalled in place, and finished to match existing conditions.</p> <p>2. All work shall be completed in accordance with the approved specifications. There may be other, more restrictive specifications, which shall govern.</p> <p>3. The contractor shall take full responsibility for any errors, omissions, or conflicts in the drawings, specifications, or contract documents. The contractor shall verify all dimensions and quantities before construction. The contractor shall be responsible for any errors, omissions, or conflicts in the drawings, specifications, or contract documents. The contractor shall be responsible for any errors, omissions, or conflicts in the drawings, specifications, or contract documents.</p>		<p>Scale</p> <p>SCALE 3/8" = 1'-0"</p>		<p>Bar to the right an original with stamp</p> <p>© 2008/2009 GHD</p>		<p>Revision of Documents</p> <p>This document and the design incorporated herein are the property of GHD Consulting Services Inc. and shall remain the property of GHD Consulting Services Inc. No part of this document may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of GHD Consulting Services Inc.</p>		<p>Client: T. LORING</p> <p>Design: T. LORING</p> <p>Project: C. SMITH</p> <p>Design: S. BLAIR</p> <p>Drawn: C. SMITH</p> <p>Project: P. MCGARVEY</p> <p>Date: MARCH 2010</p> <p>Scale: 3/8" = 1'-0"</p>		<p>Sheet: A003</p> <p>Project No.: 111-83699</p> <p>Arch D: A003</p>	
<p>Approval</p> <p>Drawn: [Signature] Date: 03/20/10</p> <p>Approved: [Signature] Date: []</p>		<p>Scale</p> <p>SCALE 3/8" = 1'-0"</p>		<p>Revision of Documents</p> <p>This document and the design incorporated herein are the property of GHD Consulting Services Inc. and shall remain the property of GHD Consulting Services Inc. No part of this document may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of GHD Consulting Services Inc.</p>		<p>Client: T. LORING</p> <p>Design: T. LORING</p> <p>Project: C. SMITH</p> <p>Design: S. BLAIR</p> <p>Drawn: C. SMITH</p> <p>Project: P. MCGARVEY</p> <p>Date: MARCH 2010</p> <p>Scale: 3/8" = 1'-0"</p>		<p>Sheet: A003</p> <p>Project No.: 111-83699</p> <p>Arch D: A003</p>			



LEVEL OF EFFORT

**Generator Building Addition Amendment
 Guenther Pump Station
 ECWA Project No, 201800030/GHD-007
 GHD Project 11183699**

TASK DESCRIPTION	Project Manager	Sr Architect/Fire Protection Eng	Sr, Engineer	HVAC/Plumb Engineer	Electrical Engineer	Structural Engineer	Architect/Engineer	Sr, CADD	CADD	RPR	Administrative Assistant	Total Hours	Subcontractor Costs	Total Cost
1. Site Civil	4		60						140		8	212	\$0	\$26,100
2. Architectural/Structural	10	62	8			204	127	84	124		24	643	\$0	\$84,400
3. Mechanical, Electrical & Plumbing	5		8	60	20			40	40		24	197	\$0	\$24,700
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Total Hours	73	134	76	72	44	228	195	144	344	0	144	1,454	\$0	\$183,800
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