

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

**Contract:** 19-02-01

**Project No.:** 201900005

**Project Description:** Large Service Contract

February 1, 2019 to January 31, 2021

**Item Description:**

- |   |  |   |                                       |
|---|--|---|---------------------------------------|
| <input type="checkbox"/> Agreement                              | <input type="checkbox"/> Professional Service Contract | <input type="checkbox"/> Amendment          | <input type="checkbox"/> Change Order |
| <input type="checkbox"/> BCD                                    | <input type="checkbox"/> NYSDOT Agreement              | <input type="checkbox"/> Contract Documents | <input type="checkbox"/> Addendum     |
| <input type="checkbox"/> Recommendation for Award of Contract   | <input type="checkbox"/> Recommendation to Reject Bids |   |                                       |
| <input type="checkbox"/> Request for Proposals                  |  |   |                                       |
| <input checked="" type="checkbox"/> Other Work Change Directive |  |   |                                       |

**Action Requested:**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Board Authorization to Execute            | <input checked="" type="checkbox"/> Legal Approval                   |
| <input type="checkbox"/> Board Authorization to Award                         | <input checked="" type="checkbox"/> Execution by the Chairman        |
| <input type="checkbox"/> Board Authorization to Advertise for Bids            | <input type="checkbox"/> Execution by the Secretary to the Authority |
| <input type="checkbox"/> Board Authorization to Solicit Request for Proposals |  |
| <input type="checkbox"/> Other  |  |

**Approvals Needed:**

**APPROVED AS TO CONTENT:**

<input type="checkbox"/> Other (if Applicable)	_____	Date: _____
<input checked="" type="checkbox"/> Chief Operating Officer	<i>Russell J. Hoel</i>	Date: <i>1-7-2020</i>
<input checked="" type="checkbox"/> Executive Engineer	<i>James F. Koubek</i>	Date: <i>1-7-2020</i>
<input checked="" type="checkbox"/> Director of Administration	<i>Lanonya Lester</i>	Date: <i>1/7/2020</i>
<input checked="" type="checkbox"/> Risk Manager	<i>Molly G. Musarra</i>	Date: <i>1/8/2020</i>
<input checked="" type="checkbox"/> Chief Financial Officer	<i>Karen L. Peregelyan</i>	Date: <i>1/8/20</i>
<input checked="" type="checkbox"/> Legal	<i>Margaret O. Murphy</i>	Date: <i>1/8/20</i>

**APPROVED FOR BOARD RESOLUTION:**

<input checked="" type="checkbox"/> Secretary to the Authority	<i>[Signature]</i>	Date: <i>1/8/20</i>
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**Remarks:** \_\_\_\_\_

P:\ECWA\201900005\Work Change Directive #1 for Ball PS Emergency Bypass Piping\2020-01-07 Authorization Form Work Change

**Resolution Date:** \_\_\_\_\_

**Item No:** \_\_\_\_\_





# ERIE COUNTY WATER AUTHORITY

## INTEROFFICE MEMORANDUM

January 7, 2020

To: Terrence D. McCracken, Secretary to the Authority

From: Leonard F. Kowalski, Executive Engineer *LFK*

Subject: Large Service Contract  
ECWA Project No. 201900005  
Work Change Directive

A Work Change Directive is being requested for the above referenced contract. The Work Change Directive is necessary to install bypass piping at Ball Pump Station to mitigate possible failure of critical discharge piping that delivers water to our northern service area. On December 16, 2019 while investigating a high-water alarm at one of the three venturi meter chambers at Ball Station, it was discovered that the piping in the northern chamber is out of alignment. The venturi is currently lifted off its concrete support and the piping at the eastern end of the chamber is bearing on the chamber wall. For the venturi to be lifted off its support, the eastern discharge header piping outside of the chamber appears to have moved downward. The central venturi is also displaced, albeit to a lesser extent. There does not appear to be any displacement at the southern venturi.

A Work Change Directive is defined under Section 00700, General Conditions of the contract and can be used to respond to emergencies. A Work Change Directive will not change the contract price or time, but it is evidence that the parties expect that the change ordered or documented by a Work Change Directive will be incorporated into a subsequently issued Change Order following negotiations by the parties as to its effect on contract price and contract time.

The Engineering Department is recommending the Work Change Directive due to possible failure therefore allowing ECWA to keep the pump station operational.

It is imperative that the work gets started as soon as possible. The material and labor required to make the bypass piping modifications will need to be procured in a timely manner to ensure that the pump station stays operational. Due to the specialized nature of working with prestressed concrete cylinder pipe (PCCP), it will be necessary to utilize our large service contractor (Kandey Co.) who is experienced with working with this type of pipe to provide the best possible product in the shortest amount of time. The work would be warranted by Kandey Co. for two years.

LFK:jmf

Attachments

cc: R.Stoll

L.Lester

AMTN-048-1901 (Ball PS Emergency)

ECWA-799-1903 (Large Service Cont)

**Work Change Directive No. 1**

Date of Issuance:	1/6/2020	Effective Date:	1/16/2020
Owner:	Erie County Water Authority	Owner's Contract No.:	19-02-01
Contractor:	Kandey Co.	Contractor's Project No.:	1750
Engineer:	Erie County Water Authority	Engineer's Project No.:	201900005
Project:	Ball Station Emergency Bypass	Contract Name:	Large Service Contract

Contractor is directed to proceed promptly with the following change(s):

Description: Install bypass piping at the Ball Pump Station at the north and south discharge chambers to ensure the pump station remains operational in the event of a potential failure.

Attachments: See Attachment No. 1 and Erie County Water Authority, Declaration of State of Emergency, dated December 18, 2019

**Purpose for Work Change Directive:**

Directive to proceed promptly with the Work described herein, prior to agreeing to changes on Contract Price and Contract Time, is issued due to: *[check one or both of the following]*

- ☐ Non-agreement on pricing of proposed change.
- ☒ Necessity to proceed for schedule or other Project reasons.

**Estimated Change in Contract Price and Contract Times (non-binding, preliminary):**

Contract Price \$ To be determined

Contract Time Not Applicable

**Basis of estimated change in Contract Price:**

- ☐ Lump Sum ☐ Unit Price
- ☒ Cost of the Work ☐ Other

RECOMMENDED:

By:   
Engineer (Authorized Signature)

Title: Executive Engineer

Date: 1-7-2020

AUTHORIZED BY:

By: \_\_\_\_\_  
Owner (Authorized Signature)

Title: \_\_\_\_\_

Date: \_\_\_\_\_

RECEIVED:

By: \_\_\_\_\_  
Contractor (Authorized Signature)

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by Funding Agency (if applicable)

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



**ATTACHMENT No. 1**  
**Scope of Work**  
**Work Change Directive**

**Large Service Contract**

**Project No. 201900005**

**January 3, 2020**

1. The Work Change Directive is necessary to install bypass piping at the Ball Pump Station to mitigate possible failure of critical piping that delivers water to our northern service area. While investigating a high-water alarm on December 16, 2019 at the northern venturi chamber at Ball Pump Station, it was discovered that the piping in the chamber is out of alignment. The venturi is currently lifted off its concrete support and the piping at the eastern end of the chamber is bearing on the chamber wall. Subsequent inspection has determined the central venturi is also displaced, but to a lesser extent. The southern venturi does not show signs of displacement.
2. The labor, equipment, materials and incidentals needing to perform the work is of a specialized nature due to the existing prestressed concrete cylinder pipe (PCCP). The contractor that is utilized must have experience working with PCCP to provide the best possible product in the shortest amount of time.
3. Kandey Co. is our contractor under the Large Service Contract and has the appropriate experience for this work.
4. The Work Change Directive consists of installing bypass piping to eliminate the potential failure at the venturi chambers. The work includes, but is not limited to:
  - a. Perform all excavation, rock excavation, dewatering and installation of temporary and/or permanent shoring as necessary;
  - b. Remove and dispose of all the existing 30-inch, 36-inch and/or 42-inch PCCP water transmission main from within the necessary excavations and other material including, but not limited to: asphalt, concrete, stone, rock, curbing, grass and fencing;
  - c. Install new 30-inch, 36-inch and 42-inch ductile iron pipe (DIP), poly wrap, fully restrained watermain, butterfly valves, fittings, blow-offs, PCCP to DIP adapters, hydrants, spool pieces, nipples and other materials as necessary to install the bypass piping at the locations as follows:

- i. At a point of connection on the west side of the northern venturi chamber, Line "F", install adapters, 30-inch DIP, valve, tee and fittings, to reach grade and alignment;
  - ii. Northerly with 30-inch DIP, valves, bends, reducer and fittings to reach grade and alignment;
  - iii. To a point of connection on the 36-inch PCCP "New Community Line" with adapters, 36-inch DIP, valves, tee and fittings to reach grade and alignment.
  - iv. At a point of connection on the west side of the southerly venturi chamber, Line "D", install adapters, 42-inch DIP, valve, tee and fittings, to reach grade and alignment;
  - v. Southerly with 36-inch DIP, valves, bends and fittings to reach grade and alignment;
  - vi. To a point of connection on the 36-inch PCCP "New Community Line" with adapters, 36-inch DIP, valves, tees, hydrant, fittings to reach grade and alignment.
- d. Provide all joint restraints, concrete anchor collars, concrete thrust blocking, bedding stone, select backfill material, temporary restoration, to properly stabilize, shore and brace the new water transmission mains, fittings and appurtenances.
  - e. Provide all labor, equipment and materials necessary to perform a hydrostatic pressure test of the newly installed piping following ECWA and ECDOH procedures.
  - f. Provide all labor, equipment and materials to perform chlorination, disinfection and bacteriological testing following ECWA and ECDOH procedures.
  - g. After approval of the testing procedure, place new bypass piping into service.
  - h. Perform necessary restoration of any disturbed areas.



## Central Purchasing Declaration of State of Emergency

**Work Order No.:**

**EC No.:** 7081

**Project No.:** 201900289

**Date of Emergency:** 12/18/2019

**Detailed Description of Emergency Condition:**

On December 16, 2019 a Pump Mechanic was investigating a high-water alarm at the northern venturi chamber at Ball Pump Station. While he was in the chamber, he noticed that the piping in the chamber is out of alignment. The venturi is currently lifted off its concrete support and the piping at the eastern end of the chamber is bearing on the chamber wall. For the venturi to be lifted off its concrete support, the discharge header outside of the chamber had to move downward. Figure 1 shows the piping layout in the vicinity of the venturi chamber. The current condition of the northern venturi is shown in Picture 1. The central venturi is also displaced, but to a lesser extent. The southern venturi did not show signs of displacement.

Ball Pump Station is a critical pump station for delivering water to our northern service area and we need to ensure that the station stays in service. The Engineering Department is moving forward with installing bypass piping on the northern and southern sides of the station. The bypass piping will allow ECWA to keep the plant operational if there is a failure on the eastern side the discharge piping. The proposed work is depicted in Sketch 1 and Sketch 2.

It is imperative that this works gets started as soon as possible. The material and labor required to make the bypass piping modifications will need to be procured in a timely manner to ensure that the pump station stays operational. Due to the specialized nature of working with prestressed concrete cylinder pipe (PCCP), it will be necessary to utilize a contractor that is experienced with working with this pipe to provide the best possible product in the shortest amount of time.

**Authorized Signature:** Pursuant to the Purchasing Guidelines (Page 17) authorization granted to one or more of the following two (2) individuals: Any Commissioner, the Executive Director, Executive Engineer, and/or the Director of Administration.

*Russell J. Stott 12/20/19*  
*Laromza Fester 12/20/19*

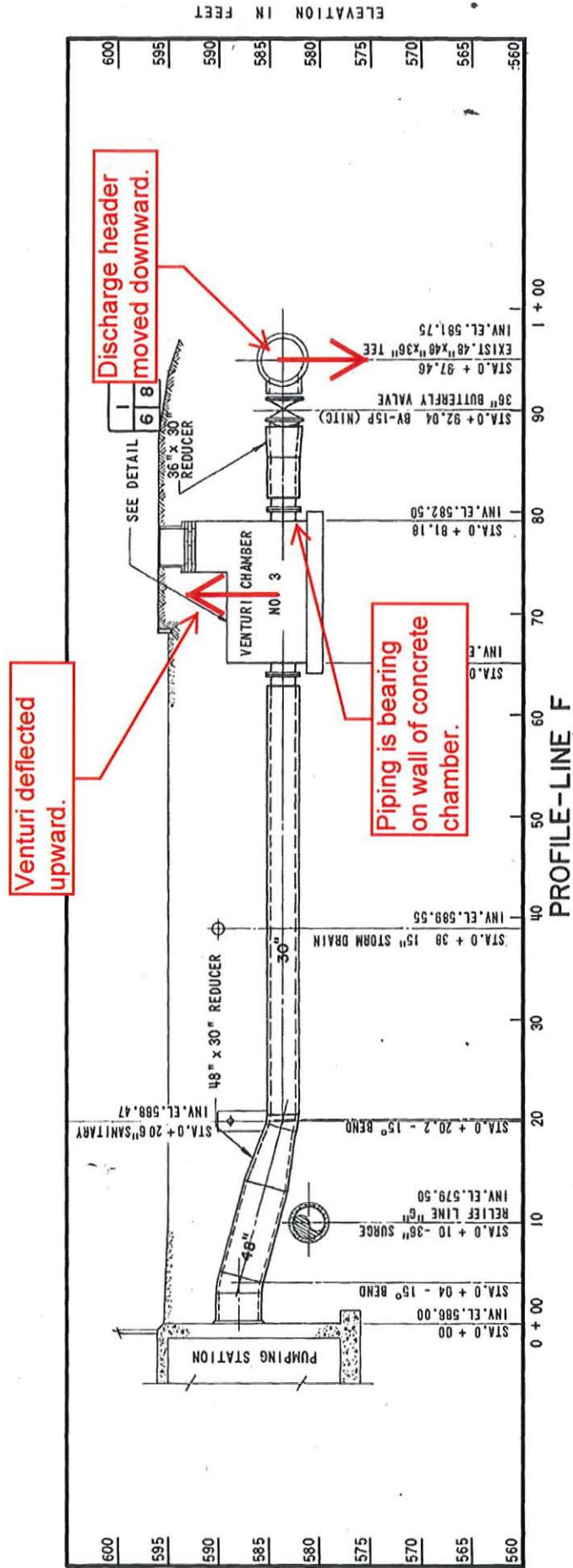
**To:** Purchasing System File

P:\EMERG\201900289\Emergency Declaration.docx (goldenrod)

Rev. 10/06/2010

Attachments: Figure 1  
Picture 1  
Sketch 1  
Sketch 2

Figure 1



FINISHED GRADE





Insulation is pushed forward.

Picture 1

North Venturi

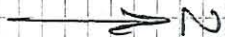
Venturi lifted off of concrete support.

Restraint is deformed.









## Sketch 2 Southern Bypass Piping

