

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

Contract: WSA-13

Project No.: 201800081

Project Description: Water System Improvements

Large Valve Replacements, city of Lackawanna and Towns of Alden,
Amherst, Cheektowaga, Hamburg, and West Seneca.

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 <u>Work Change Directive</u> | | | |

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 checked="" type="checkbox"/> Department Head | <u>Leonard F. Konalich</u> | Date: <u>7-10-19</u> |
| <input type="checkbox"/> Risk Manager | | Date: _____ |
| <input checked="" type="checkbox"/> Director of Administration | <u>Spencer Syster</u> | Date: <u>7/10/19</u> |
| <input checked="" type="checkbox"/> Executive Engineer | <u>Murphy</u> | Date: <u>7/10/19</u> |

APPROVED AS TO FORM:

- | | | |
|-------------------------------------------|---------------------------|----------------------|
| <input checked="" type="checkbox"/> Legal | <u>Margaret A. Murphy</u> | Date: <u>7/10/19</u> |
|-------------------------------------------|---------------------------|----------------------|

APPROVED FOR BOARD RESOLUTION:

- | | | |
|----------------------------------------------------------------|--------------------|----------------------|
| <input checked="" type="checkbox"/> Secretary to the Authority | <u>[Signature]</u> | Date: <u>7/10/19</u> |
|----------------------------------------------------------------|--------------------|----------------------|

Remarks:

Resolution Date: _____

Item No: _____



ERIE COUNTY WATER AUTHORITY INTEROFFICE MEMORANDUM

July 10, 2019

To: Terrence D. McCracken, Secretary to the Authority

From: Leonard F. Kowalski, Senior Distribution Engineer *LFK*

Subject: Contract WSA-013
Water System Improvements, Large Valve Replacements,
City of Lackawanna and Towns of Alden, Amherst, Cheektowaga,
Hamburg, and West Seneca.
ECWA Project No. 201800081
Work Change Directive

A Work Change Directive is being requested for the above referenced contract. The Work Change Directive is a direct result of two recent transmission main failures within the corridor between Ball Pump Station and Wehrle Tank (Big Blue Water Tower). On 6/11/19 a 30" transmission main ruptured approximately 700 ft north of Wehrle Tank. That repair was performed from 6/11/19 through 6/12/19. On the evening of 6/12/19 the Authority was in the process of filling the transmission main to return it to service. During the filling of the main another rupture was discovered under Main St in Amherst. The approximate location is Main Street at 290 West Exit 7B (Cross Streets: 290 West Exit 7B & Royal Pkwy, eastbound lane). A remote-controlled robot outfitted with a camera was used to verify the leak. A 3ft section on the bottom of the transmission main ruptured. The main is approximately 15ft deep below Main St, inside of a casing pipe. The transmission main is a main feed from Ball Pump Station to Wehrle Tank and is critical to the operation of the distribution system to provide water to southern Amherst and Cheektowaga. Since the main has been out of service, the Authority has been using our emergency connection with the City of Buffalo at Pinehill Pump Station to supplant the flow previously provided by the 30" transmission main. The Authority issued a Declaration of State of Emergency for the rupture that was discovered on 6/12/19.

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 affect on contract price and contract time.

The Engineering Department is recommending the Work Change Directive due to the close proximity of the rupture in the 30-inch transmission main to the valve replacement site that was part of the original scope of work associated with the contract. Proposed work under the above referenced contract is located on the 30-inch transmission main within the repair/replacement

construction work zone. The rupture of the existing 30-inch transmission main is preventing E&R General Construction (E&R) from proceeding with their contract work until the transmission main is repaired. It is advantageous for the Authority to have E&R perform the emergency repair since they are experienced and qualified to do the work, and since it connects directly into their original scope of work. This also encompasses the work under one contract, which means the work will be warrantied by E&R for two years.

LFK*Imb

Attachment

cc: R.Stoll

CONT-WSA-013-1801-I-186

WORK CHANGE DIRECTIVE
No. 1

Date of Issuance: July 10, 2019 Effective Date: July 18, 2019
Owner: Erie County Water Authority Owner's Contract No.: 19-04-03
Contractor: E&R General Construction Inc Contractor's Project No.:
Engineer: Wm. Schutt Associates Engineer's Project No.: 18024
Project: Contract WSA-013 Contract Name: Large Valve Replacements

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

Description:

See Attachment No. 1

Attachments: *[List documents supporting change]*

Erie County Water Authority, Declaration of State of Emergency, dated June 12, 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 ** [increase] [decrease].
Contract Time ** to be determined ** days [increase] [decrease].

Basis of estimated change in Contract Price:

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

RECOMMENDED:

AUTHORIZED BY:

RECEIVED:

By:


Engineer (Authorized Signature)

By:

Owner (Authorized Signature)

By:

Contractor (Authorized Signature)

Title: William Schutt, President

Title:

Title: Angie Passucci, Vice President

Date: July 9, 2019

Date:

Date:

ATTACHMENT No. 1

Work Change Directive

**Contract WSA-013
Large Valve Replacement Project
Project No. 201800081
July 10, 2019**

1. The Work Change Directive is necessary due to the close proximity of the rupture in the 30-inch transmission main immediately adjacent to the valve replacement site that was part of the original scope of the work associated with Contract WSA-013. The rupture of the existing 30-inch transmission main is preventing E&R General Construction from proceeding with their contract work until the transmission main is repaired. It is advantageous for the Authority to have E&R General Construction perform the emergency repair since they are experienced and qualified to do the work; and, since it connects directly into their original scope of work.
2. Provide all labor, materials, equipment and incidentals to perform Emergency Repair Work at the Main Street and Route 290 crossing of the existing 30-inch pccp water transmission main located within an existing 54-inch tunnel liner plate casing adjacent to Operation No 1 at Site 1B – Main Street, Town of Amherst, New York as part of the Contract WSA-013 work.
3. The Work Change Directive consists of restoring operation of the existing 30-inch water transmission main back into service and includes, but is not limited to:
 - a. Obtain and comply with New York State Department of Transportation highway permit requirements, and all other agencies of jurisdiction;
 - b. Provide protection to other utilities or facilities that may be encountered including following National Grid regulations for grounding of work equipment, having a qualified electrical spotter on site during all work, etc; and protecting from damage other utilities such as Enbridge pipelines, cable companies, and other utilities;
 - c. Perform all excavation, rock excavation, dewatering and installation of temporary and/or permanent shoring as necessary or as ordered by agencies of jurisdiction;
 - d. Remove and dispose of all the existing 30-inch pccp water transmission main from within and adjacent to the existing 54-inch tunnel liner plate casing that crosses Main Street including but not limited to removal of grout, concrete, pea gravel or stone in and around the casing; any and all pipe rails, braces or piping supports; and bulkheads, concrete blocking or anchor collars; anodes, or incidentals to a point where the connections to the existing 30-inch water transmission main will be made on the north and south sides of Main Street;
 - e. Inspect the existing 54-inch tunnel liner plate casing for any damage or deterioration and repair as necessary to a condition that will accept the new carrier watermain;
 - f. Install new 30-inch DIP, (double poly wrapped), fully restrained watermain, butterfly valves, fittings, blow offs, flushing outlets, adapters, spool pieces, nipples, and other materials as necessary to make connections to the existing 30-inch pccp transmission main at locations as follows:
 - i. At a point of connection to the existing 30-inch pccp transmission main on the north side

- of Main Street (north of the rupture of the existing watermain in the casing) at a location where an existing 30-inch butterfly valve shall be replaced with a new 30-inch butterfly valve and with installation of a new vertical 30-inch x 8-inch flushing outlet to grade with redundant 8-inch valves to act as a blow off and flushing outlet;
- ii. Through the existing 54-inch tunnel liner plate casing with rails, skids and bracing as necessary including adding vertical 45 degree bends (on the south side of the casing pipe) to reach grade;
 - iii. To a point where installation of the originally specified Operation No 1, Site 1B work (south side of the rupture in the watermain in the casing) can be performed;
 - iv. To a point of connection to the existing 30-inch pccp water transmission main at the south side of the Site 1B work at the location of a new 30-inch butterfly valve.
- g. Provide all joint restraints, concrete anchor collars and concrete thrust blocking as necessary to properly stabilize, shore and brace the new water transmission main, fittings and appurtenances;
 - h. Perform a hydrostatic pressure test of the installed piping following ECWA and ECDOH procedures from the new North 30-inch butterfly valve to the new South 30-inch butterfly valve.
 - i. After approval is given on the pressure test results, fill the annular space between the new 30-inch carrier pipe and the existing 54-inch tunnel liner plates with grout; install bulkhead at both ends of the casing and install sacrificial anodes on both sides of the casing;
 - j. Provide labor, equipment and materials to assist the Authority in disinfecting and providing bacteriological sampling of the length of existing portion of water transmission main and associated piping including the new work at Main Street from a point where the recently installed new 30-inch Butterfly on the north side of Main Street was installed, southerly to the North valve of the previously installed cut-in 30-inch x 16-inch tee at the base of Wehrle Tank;
 - k. Once acceptable laboratory analysis has been approved by the appropriate parties, provide assistance to the Authority to place the existing and new water transmission main into service.
 - l. Perform final restoration of all disturbed areas.

Central Purchasing Declaration of State of Emergency

Work Order No.: CityWorks # 39956

OWIP No.: _____


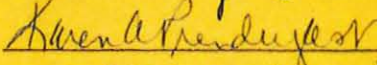
Project No.: Rupture of 30-inch Transmission Main - Amherst

Date of Emergency: 6/12/19

Detailed Description of Emergency Condition:

On 6/11/19 a 30" concrete transmission main ruptured approximately 700 ft north of Wehrle Tank. That repair was performed from 6/11/19 through 6/12/19. On the evening of 6/12/19 the Authority was in the process of filling the transmission main to return it to service. During the filling of the main another rupture was discovered under Main St in Amherst. The approximate location is Main Street at 290 West Exit 7B (Cross Streets: 290 West Exit 7B & Royal Pkwy, eastbound lane). A remote-controlled robot outfitted with a camera was used to verify the leak. A 3ft section on the bottom of the PCCP main ruptured. The main is approximately 15-20ft deep below Main St inside of a casing pipe. The transmission main is a main feed from Ball Pump Station to Wehrle Tank and is critical to the operation of the distribution system to provide water to southern Amherst and Cheektowaga. Since the main has been out of service, the Authority has been using its emergency interconnection with the City of Buffalo at Pinehill Pump Station to supplant the flow previously provided by the 30" transmission main. Since the Authority will be frequently taking water from buffalo, there needs to be some operational changes at Pinehill Pump Station to adjust the pH and chlorine levels. Those modifications are outlined in the attached memo that is dated 7/2/19 and titled Pine Hill Pump Station Water Quality Upgrades. The material and labor required to make the repair on Main St and the equipment required to make modifications at Pinehill Pump Station will need to be procured in a timely manner to ensure an adequate water supply during the summer months. A risk may exist to the public's health and safety if the damaged portion of transmission main is not repaired/replaced in a timely manner.

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.



ACTING Executive Director

To: Purchasing System File