ERIE COUNTY WATER AUTHORITY AUTHORIZATION FORM

For Approval/Execution of Documents (check which apply)

Contract: WSA-013 Project No.: 20180008 Project Description: Water System Improvements. Large Valve Replacements – Towns of Alden, Amherst, Cheektowaga, West and City of Lackawanna.	
Item Description: Agreement Professional Service Contract Amendment BCD NYSDOT Agreement Contract Documents Recommendation for Award of Contract Recommendation to Request for Proposals Other	
Action Requested: X Board Authorization to Execute X Legal Approval Board Authorization to Award X Execution by the Chai Board Authorization to Advertise for Bids Execution by the Secr Board Authorization to Solicit Request for Proposals Other	
Approvals Needed: APPROVED AS TO CONTENT: X Chief Operating Officer X Executive Engineer Senior Distribution Engineer X Director of Administration X Chief Financial Officer APPROVED AS TO FORM: X Legal/RISK MGMT APPROVED FOR BOARD RESOLUTION: X Secretary to the Authority Remarks: Change Order #1	Date: 11-12-19 Date: 11-12-19 Date: Date: 11/13/19 Date: 11/13/19 Date: 11/13/19
Resolution Date: Item No:	

ERIE COUNTY WATER AUTHORITY



INTEROFFICE MEMORANDUM

November 12, 2019

To:

Terrence D. McCracken, Secretary to the Authority

From:

Leonard F. Kowalski, Executive Engineer

Subject: Contract WSA-013

Water System Improvements

Large Valve Replacements - Towns of Alden, Amherst, Cheektowaga,

West Seneca, Hamburg, and City of Lackawanna

ECWA Project No. 201800081

Attached is Change Order No. 1 for the above referenced contract for E&R General Construction, Inc., (E&R) to 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 transmission main and related repairs adjacent to Operation No. 1 at Site 1B – Main Street, in the Town of Amherst. The work was authorized under a Work Change Directive that was approved by the Board on July 18, 2019. Prior to the Work Change Directive being approved an Emergency Declaration was issued by the Authority on June 12, 2019. The Work Change Directive and Emergency Declaration are included as an attachment to Change Order No. 1.

The work was performed under a time and material basis per Article 12 Section 00700, General Conditions of the contract. Per the contract, a fifteen percent (15%) markup for overhead and profit is allowed on labor, materials and equipment and a five percent (5%) markup is allowed on subcontractors. Daily crew sheets were provided that document the equipment, manpower and number of hours worked each day. Invoices for all subcontractors and material purchases were also provided. All the documentation provided by the contractor was reviewed by Wm. Schutt Associates, P.C. and by the Authority. A summary of the costs is included as an attachment to Change Order No. 1.

The total cost of the repair work performed by E&R is \$655,267.11.

The following documents are attached:

- Blue Authorization Form.
- Change Order No. 1 Form.

LFK:jmf Attachments

cc: R.Stoll

L.Lester

CONT-WSA-013-1801-186-B

CHANGE ORDER NO. 1 ECWA CONTRACT WSA - 013 Water System Improvements Large Valve Replacements

Project No.: 201800081 Contract No. 19-04-03

Date: November 12, 2019

Contractor: E&R General Construction, Inc.

38 St. David's Drive

West Seneca, New York 14224

Engineer: Wm. Schutt & Associates

37 Central Avenue

Lancaster, New York 14086

DESCRIPTION OF CHANGE:

1. 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 and related repairs adjacent to Operation No 1 at Site 1B – Main Street, Town of Amherst, New York as part of Contract WSA-013. The work also included testing, disinfection and placing approximately 7,200lf of 30-inch Water Main into service.

REASON FOR CHANGE:

1. The Authority had experienced a number of water transmission main pipe failures at the time of the rupture of the 30-inch Transmission Main which occurred beneath Main Street. This transmission pipeline is a main feed from Ball Pump Station to Wehrle Tank and is critical to the operation of the distribution system in providing sufficient quantities of water to southern Amherst and Cheektowaga. As a result, the Authority issued an Emergency Declaration. It was deemed advantageous for the Authority to have E&R General Construction perform the emergency repairs and related work since they are experienced and qualified in performing this type of work; and, since their Contract WSA-013 project work was located adjacent to the ruptured pipeline and could not proceed until the main was repaired.

COMPENSATION:

ItemDescriptionCost1.lump sum extra\$655,267.11

ATTACHMENTS:

- WORK CHANGE DIRECTIVE No 1 dated 7/18/2019
- E&R's Extra Work Summary of Costs

Page 1 of 2

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES:			
Original Contract Price \$1,484,000.00 .	Original Contract Times Substantial Completion: November 30, 2019 Final Completion: December 15, 2019			
Net changes from previous Change Orders \$0.00 .	Net Changes from previous Change OrdersSubstantial Completion:0 DaysFinal Completion:0 Days			
Contract Price prior to this Change Order \$1,484,000.00	Contract Times prior to this Change Order Substantial Completion: November 30, 2019 Final Completion: December 15, 2019			
Net Increase/Decrease of this Change Order \$655,267.11 .	Net Increase/Decrease of this Change Order Substantial Completion: + 0 Days Final Completion: + 0 Days			
Contract Price with all approved Change Orders \$2,139,267.11 .	ders Change Orders:			
APPROVALS:				
OWNER: Erie County Water Author	Date:			
CONTRACTOR: E&R General Construction	Date:			
ENGINEER:	Date: _///2/19			

Civil Engineering Environmental Engineering Municipal Engineering Land Surveying



Project Management Construction Support Services Landscape Architecture SWPPP Services

July 25, 2019

Office of the Secretary Terrence D. McCracken Secretary to the Authority Erie County Water Authority 295 Main Street, Room 350 Buffalo, New York 14203

Re:

Erie County Water Authority

Contract WSA-13

Large Valve Replacements

City of Lackawanna and Towns of Alden, Amherst,

Cheektowaga, Hamburg and West Seneca

Project No. 201800081

WORK CHANGE DIRECTIVE No 1

Dear Terry:

Enclosed please find one duly executed original Work Change Directive No. 1 for the above referenced project for your files.

Please do not hesitate to call if you have any questions.

Very truly yours,

James K. Ehrin Project Engineer

CC:

L. Kowalski, P.E., ECWA Director of Engineering

J. Sylvester, ECWA Distribution Engineer

W. Schutt, P.E.

File

19-07-25-18024-Work Change Directive to ECWA - L - jke

37 CENTRAL AYENUE LANCASTER NEW YORK 14086-2143 P 716-683-5961 F 716-683-0169 WWW.WMSCHUTT.COM



COCHAINS COMMITTEE	L.			
				WORK CHANGE DIRECTIVE No. 1
Date of Issu	ance: July 10, 2019		Effective Date:	July 18, 2019
Owner:	Erie County Water Author	ority	Owner's Contract No.:	19-04-03
Contractor:	E&R General Construc	tion Inc	Contractor's Project No	u.ti
Engineer:	Wm. Schutt Associates		Engineer's Project No.:	18024
Project:	Contract WSA-013		Contract Name:	Large Valve Replacements
Contractor Description	is directed to proceed pro	mptly with the f	ollowing change(s):	
	1	See A	ttachment No. 1	
Attachment	ts: [List documents suppor	ting change]		
	Erie County Water Au	thority, Declara	tion of State of Emergo	ency, dated June 12, 2019
Contract Tim	proceed promptly with the le, is issued due to: [check n-agreement on pricing of ecessity to proceed for sch	one or both of to f proposed chan	he following] ge.	ng to changes on Contract Price and
stimated Ch	ange in Contract Price an	d Contract Time	s (non-binding, prelimi	nary):
Contract Price Contract Time			[increase] [dec	
asis of estin	nated change in Contract	Price:		
By: WW Engin		ву:	(Authorized Signature)	RECEIVED: By: Afficia Contractor (Authorized Signature) Title: Angie Passucci, Vice President
3-4	, 2019	Date: 7/18/19	2	Date: 7-23-19

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 peop 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;

 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.
- 1. 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 Amberst and Checktowaga, 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 Pinchill 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.

To: Purchasing System File

E & R GENERAL CONSTRUCTION INC.	Variable and a contract of the	
38 St David Drive West Seneca, New York 14224	(716) 675-5277 pho (716) 675-5277 fax	
INVOICE	(,==,,===,,==	
CHANGE ORDER NO 1 - SUMMARY OF COSTS		
ECWA Contract WSA-013 - Large Valve Replacement Contract		
Cubicata Adain Characta David David		
Subject: Main Street at Royal Parkway Leak on 30-inch Water Transmission Main		
Leak Oil 30-ilich Water Transmission Waiti		
Date Description	Costs	Summary
Appendix 1 - Assist ECWA 30-inch Leak Investigation 6/13/2019 Initial assistance to ECWA.	će 020 7 0	
6/14/2019 Leak on 30-inch under Main St. Remove Cap & Video Tape Main.	\$8,828.79 \$5,816.41	
57 2 7 2020 Leak on 30 men ander Main 3t. Kemore cap & video rape Main.	\$14,645.20	\$14,645.20
Appendix 2 - Removal of Existing 30-inch Water Transmission Main		
7/8-15/19 Cutting & Removing existing 30-inch Water Transmission Main.	\$108,717.94	WATER DATE OF
	\$108,717.94	\$108,717.94
Appendix 3 - Prep of Main St. Site and Cost for new 30-inch Pipe & Appurtenances		
7/28/2019 Main St. Site Excavation, Unload/Stage Pipe and Materials.	\$134,016.76	
7/31/2019 Flushing out existing Casing Pipe, Removing Existing Main.	\$10,752.00	
,,-,	\$144,768.76	\$144,768.76
Appendix 4 - Installation of New 44-inch Casing Pipe in Existing Tunnel Liner Plate	- دا سموا د دهر	
8/1/2019 Fabricating brackets, pulleys, modifying TLP's, etc.	\$11,675.13	
8/2/2019 Unloading and Staging Casing Pipe, Welding casing Head.	\$59,957.14	
8/5/2019 Installing Casing Pipe and Removing Existing Watermain. 8/6/2019 Completed Casing Pipe Install. Cutting Off Casing Head.	\$16,145.30 \$14,708.27	
of 07 2013 Completed Casing ripe install, Cutting Off Casing flead.	\$102,485.84	\$102,485.84
Appendix 5 - Installation of New 30-inch D.I.P and Appurtenances (30" BFV, 8" B.O., etc.)		
8/7/2019 Installation of New 30" Carrier Pipe into Casing Pipe.	\$12,628.49	
8/8/2019 Installation of 30-inch BFV, 8-inch Blow Off, & other Appurtenaces.	\$12,732.82	
8/9/2019 Installation of 30-inch BFV, 8-inch Blow Off, & other Appurtenaces.	\$17,085.73	
8/12/2019 Installing 30-inch 45 degree fittings and main. Bustung rock.	\$20,065.05 \$11,411.64	
8/13/2019 Installing stone and backfill. Installing Concrete for bends. 8/14/2019 Installing stone and backfill.	\$8,492.35	
8/16/2019 Pulling out Plates and Shields. Returning to Owner. Hauling Rock.	\$16,362.58	
	\$98,778.67	\$98,778.67
		2
Appendix 6 - Fill, Flush, Test, Chlorinate, Sample 7,200 If of Existing/New Watermain	444,000,07	
8/15/2019 Installing Sample Points; Filling & Pressure Testing New Watermain.	\$14,299.37	
8/18/2019 Flush, Test and Chlorinate.	\$3,379.99	
8/22-25/19 Fill Flush, Test and Chlorinate Watermain to Wehrle Tank. Took Samples. 8/27/2019 Pulled Corps off Sample Points. Diapered and Backfilled Excavations.	\$18,921.86 \$10,073.44	141
of 21/2013 I direct corps on sample Folics. Diapered and backlined Excavations.	\$46,674.66	\$46,674.66
		£6 11.56
ppendix 7 - Restoration	sing in this sweep of strate authorities	
8/20/2019 Restoration, Concrete, Topsoil and Fence.	\$11,346.45	
8/21/2019 Restoration, Concrete, Topsoil, Fence and Clean Up.	\$4,228.85	
8/26/2019 Restoration, Concrete, Topsoil and Clean Up. 8/28/2019 Lawn Restoration, Topsoil and Place Hydroseed.	\$11,721.68 \$12,013.49	
6/26/2019 Lawii Restoration, Topson and Flace Hydroseed.	\$39,310.47	\$39,310.47
	733,310.47	400,010.47
ppendix 8 - Main Street Sewer Repair		
9/12/2019 Mobilize Equipment and Materials to Sewer Repair Site.	\$13,600.94	
9/13/2019 Excavated Sanitary Sewer and Made Repairs. Install Concrete Sub Base.	\$29,657.76	
9/17/2019 Mobilize Equipment/Materials to Sewer Repair Site Asphalt Restoration.	\$13,414.48	
9/18/2019 Cold Milling and Installing Binder and Top per NYSDOT Regs.	\$38,993.73	\$95,666.91
	755,000.31	755,000.31
ppendix 9 - De Mobilization		133
ppendix 9 - De Mobilization 9/19/2019 Remove all Equipment and Materials from Sanitary Site. Clean Up.	\$4,218.66	\$4,218.66