

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

**Contract:** \_\_\_\_\_ **Project No.:** 2019000126  
**Project Description:** 12" Main Replacement along Roll Rd., Town of Amherst/Clarence

**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 Main Replacement (Crossing)

**Action Requested:**

Board Authorization to Execute     Legal Approval  
 Board Authorization to Award     Execution by the Chairperson  
 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:**

Department Head *James F. Kovalich* Date: 5-17-19  
 Risk Manager *HIA* Date: \_\_\_\_\_  
 Director of Administration \_\_\_\_\_ Date: \_\_\_\_\_  
 Executive Engineer *Russell Stott* Date: 5/12/19

**APPROVED AS TO FORM:**

Legal *Margaret A. Murphy* Date: 5/20/19

**APPROVED FOR BOARD RESOLUTION:**

Secretary to the Authority *[Signature]* Date: 5/21/19

**Remarks:** \_\_\_\_\_

**Resolution Date:** \_\_\_\_\_ **Item No:** \_\_\_\_\_

*[Handwritten initials]*



**ERIE COUNTY WATER AUTHORITY**  
**INTEROFFICE MEMORANDUM**

May 17, 2019

**TO:** Terrence D. McCracken, Secretary to the Authority

**FROM:** Leonard F. Kowalski, P.E., Senior Distribution Engineer *LFK*

**SUBJECT:** Main and valve replacement along Niagara Falls Blvd., in the Town of Amherst  
ECWA PN: 201900126  
ECWA FN: AMTN-756-1901

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The existing 8" cast iron main along Roll Rd. at Transit Rd. in the Town of Amherst/Clarence has a leak under the pavement and requires replacement. The water main crossing Transit Rd. is currently valved off to isolate the leak which is cutting off the east-west flow of water at this intersection. Instead of excavating in a six lane NYSDOT roadway to repair a cast iron pipe, we are proposing to bore a new main under the road. Boring underneath the roadway will minimize traffic disruptions during the main installation and will eliminate the need to restore the roadway.

This work will be performed using Capital Budget Item 100586 Misc Distribution Mains under 2090 Distribution Mains Unit. The annual budgeted amount is \$1,000,000. The estimated cost to do this work is \$112,000.00 and will be performed by Kandey Company Inc.

**ERIE COUNTY WATER AUTHORITY  
CONSTRUCTION AUTHORIZATION**

Project No. 201900126  
Budget No. \_\_\_\_\_

Authorization No.: EC 7038  
Date: 5/17/19  
Inputted By/Date: \_\_\_\_\_

<u>May 2019</u>	Estimate Starting Date
<u>August 2019</u>	Estimate Complete Date
yes <input checked="" type="checkbox"/> no	Retirement Involved
<u>X</u>	Public Street
	Private Right of Way
	On Authority's Prop
	Tax Districts _____
Name of Grantor of Easement _____	
Date of Easement _____	

**TITLE OF PROJECT:** Install 170 LF of 12" DIP to replace existing 8" crossing along Roll Rd at Transit Rd., in the Town of Amherst/Clarence.

**CLASS OF MAIN INSTALLATION:**

<u>X</u>	System Betterment
	Bldr/Cont/Dev. Agree.
	Owner Occupant Cont.
	Special Revenue Cont.

**DETAILED DESCRIPTION AND PURPOSE:**  
A new 12" connection will be made to the existing 12" Main along Transit Rd. in the Town of Amherst/Clarence, approximately 90' north of Roll Rd and 50' west of Transit Rd. and install approx 170 LF of 12" D.I.P. for new crossing and replace Hydrant L05-F58. crossing is valved off due to a leak, new crossing required.

**ESTIMATE COST**

- |                                      |                      |
|--------------------------------------|----------------------|
| (1) Total Est. Cost                  | \$ <u>112,000.00</u> |
| (2) _____ Meters and Service @ _____ | \$ _____             |
| (3) Removal Cost Less Salvage        | \$ _____             |
| (4) Gross Investment                 | \$ <u>112,000.00</u> |

**DEDUCT**

- |                       |                      |
|-----------------------|----------------------|
| (5) Const. Advance    | \$ _____             |
| (6) Service Conn.     | \$ _____             |
| (7) Refunds           | \$ _____             |
| (8) Net Auth. Invest. | \$ <u>112,000.00</u> |

**BUDGETARY DATA**

- |                         |          |
|-------------------------|----------|
| (9) Tot. Budget Expnd.  | \$ _____ |
| (10) This Authorization | \$ _____ |
| (11) Pre Approved       | \$ _____ |
| (12) Tot. Apvl. To Date | \$ _____ |
| (13) Bal. Budget Expnd. | \$ _____ |

**APPROVALS**

Preparation	<u>Adam Massaro</u>
Sr. Dist. Engr.	<u>[Signature]</u>
Exec. Engr.	<u>[Signature]</u>
Admn. Director	_____
Legal Dept.	_____
Acct. Dept.	_____

**ESTIMATED EARNINGS & RETURNS**

**ESTIMATED INCREASE IN REVENUES**

- |                              |          |
|------------------------------|----------|
| (14) _____ Customers @ _____ | \$ _____ |
| (15) _____ Hydrants @ _____  | \$ _____ |

**EST. SAVINGS IN OPERATING EXPENSES**

- |                                 |          |
|---------------------------------|----------|
| (16) _____                      | \$ _____ |
| (17) Gross Increase in Earnings | \$ _____ |

**REVENUE DEDUCTIONS**

- |                             |          |
|-----------------------------|----------|
| (18) Operating Exp. _____ % | \$ _____ |
| (19) Depreciation           | \$ _____ |
| (20) Total Deductions       | \$ _____ |
| (21) Net Income Loss        | \$ _____ |
| (22) % Return on Investment | _____ %  |
| (21) divided by 8)          | _____ %  |

**RESOLUTION APPROVING**

Adopted \_\_\_\_\_  
Item No. \_\_\_\_\_

## Cost Estimate

**PROJECT NO.:** 201900126

**Prepared By:** A.Massaro  
**Inputted By:** \_\_\_\_\_

**Date:** 5/17/2019  
**Date:** \_\_\_\_\_

**TITLE:** INSTALL 170LF OF 12" DIP FOR MAIN REPLACEMENT  
 ROLL RD., TOWN OF CLARENCE

**Type of Connection:** TEE

### MATERIAL LIST

Materials					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per item
170	LF	12120	12" D.I.PE w/WRAP	\$52.97	\$9,004.90
10	LF	12060	6" D.I.PE w/WRAP	\$23.48	\$234.80
1	EA	11130	12"x12" TEE	\$245.69	\$245.69
3	EA	7124	12" GATE VALVE	\$1,327.69	\$3,983.07
2	EA	20804	12" HY-MAX COUPLING	\$307.61	\$615.22
4	EA	14353	12"-45 COMPACT BEND	\$140.82	\$563.28
2	EA	9081	8" CAP	\$26.40	\$52.80
1	EA	20802	8" HY-MAX COUPLING	\$202.02	\$202.02
2	EA	14354	12" 90 COMPACT BEND	\$132.59	\$265.18
1	EA	5126	12"x8" REDUCER	\$79.82	\$79.82
1	EA	7062	6" GATE VALVE	\$469.02	\$469.02
1	EA	11124	12"x6" TEE	\$166.74	\$166.74
1	EA	10005	HYDRANT 5' BURY	\$1,593.50	\$1,593.50
1	EA	13168	ANCHOR COUPLING	\$99.45	\$99.45
4	EA		VALVE BOX COMPLETE	\$200.00	\$800.00
10	EA		RETAINER GLAND	\$50.00	\$500.00
<b>TOTAL MATERIAL COST (MAT)</b>					<b>\$18,875.49</b>

### INSTALLATION per ECWA LARGE SERVICE CONTRACT

Installation					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
1	EA	1D5	12"x12" CUT IN TEE	\$5,000.00	\$5,000.00
160	LF	1E4	INSTALL 12" D.I. PIPE	\$65.00	\$10,400.00
1	EA	1A2	8"x8" CONNECTION	\$4,700.00	\$4,700.00
10	LF	1E3	INSTALL 6" D.I. PIPE	\$65.00	\$650.00
1	EA	4A	INSTALL HYDRANT	\$1,350.00	\$1,350.00
95	LF	8A5	INSTALL 24" STEEL CASING PIPE	\$440.00	\$41,800.00
Restoration					
Qty.	U/M	Item No.	Description	Cost per Unit	Total Cost per Item
60	LF	6E1	LAWN	\$35.00	\$2,100.00
15	SY	6C2	CONCRETE SIDEWALK	\$145.00	\$2,175.00
20	CY	7A1	SELECT FILL	\$55.00	\$1,100.00
<b>TOTAL LABOR COST (LAB)</b>					<b>\$69,275.00</b>

**STORES ALLOCATION COST (SAL) = 15.0% OF MATERIAL COST (MAT)** \$2,831.32

**SUBTOTAL "A" = MAT+LAB+SAL** \$90,981.81

**OVERHEAD COST (OVHD) = 11.9% OF SUBTOTAL "A"** \$10,826.84

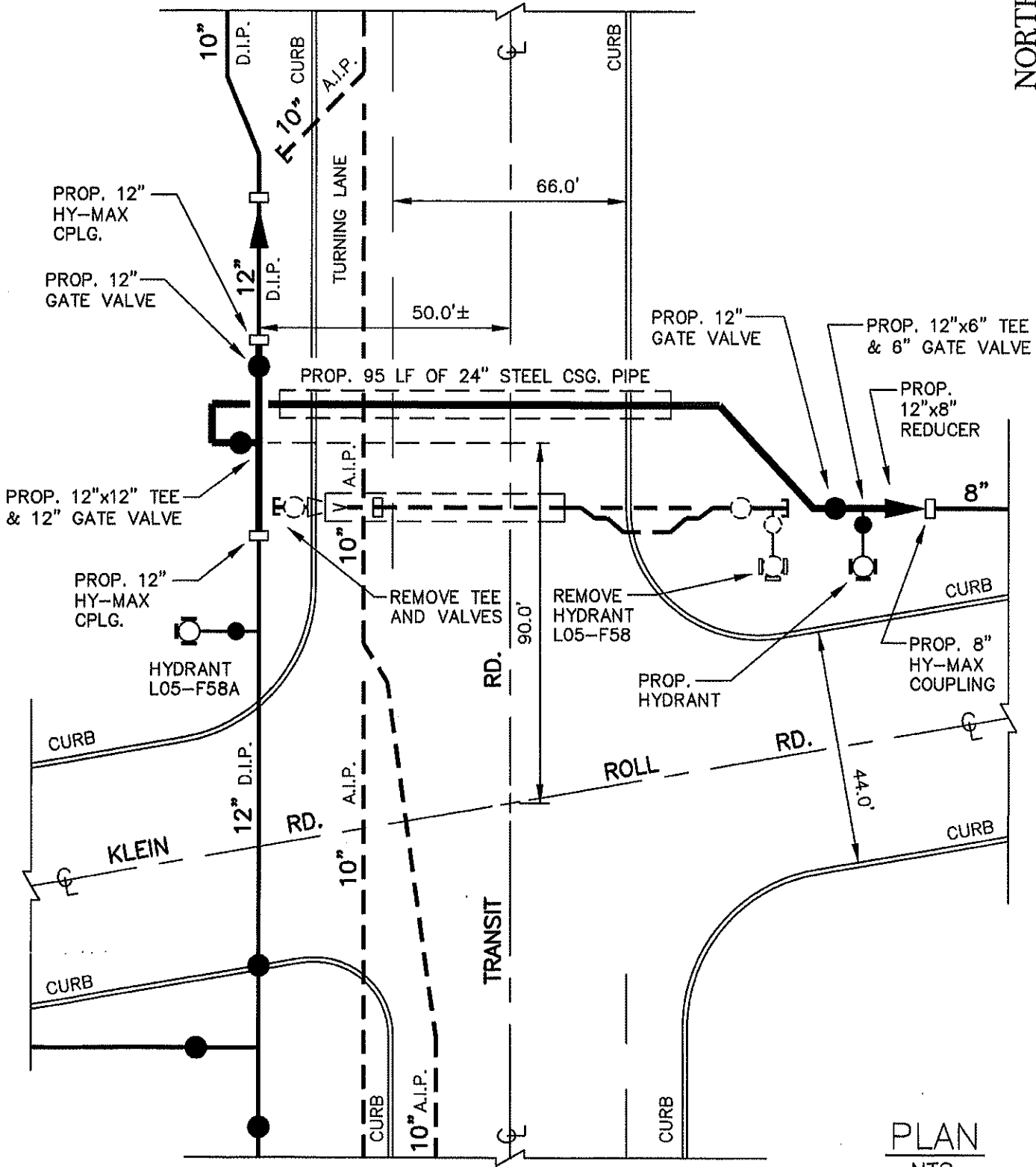
**SUBTOTAL "B" = OVHD + SUBTOTAL "A"** \$101,808.65

**CONTINGENCIES (CONT) = 10.0% OF SUBTOTAL "B"** \$10,180.86

**\*TOTAL ESTIMATED COST = CONT + SUBTOTAL "B" (ROUNDED)** **\$112,000.00**

(\*ESTIMATED COST EFFECTIVE IF INSTALLED BY JANUARY 31, 2021)

INSTALL 170 LF OF 12" D.I.P. FOR MAIN REPLACEMENT  
 ROLL RD. AT TRANSIT RD., TOWN OF CLARENCE/AMHERST  
 PN: 201900126 FN: AMTN-756-1901



PLAN  
 NTS

ENGINEERING REPORT  
MAIN REPLACEMENT  
ROLL RD.  
TOWN OF AMHERST/CLARENCE  
ECWA PROJECT NO. 201900126

MAY 15, 2019

LOCATION AND DESCRIPTION

Roll Rd. is located east of Transit Rd. and north of Greiner Rd. in the Town of Clarence, New York. This project consists of replacing an existing 8 inch crossing by installing approximately 170 FT of 12 inch D.I.P. water main and replacing one hydrant in the northerly R.O.W. of Roll Rd. east of Transit Rd.

WATER SERVICE

Water will be supplied by making a connection to the existing 12 inch water main in the westerly R.O.W. of Transit Rd., approximately 90 FT north of the centerline of Roll Rd., and approximately 50 FT west of the centerline of Transit Rd., via a 12 inch x 12 inch tee. Then extend 12 inch D.I.P. east a distance of 170 FT to tie into the existing 8 inch main approximately 80 FT east of the centerline of Transit Rd., and approximately 35 FT north of the centerline of Roll Rd., and replace one fire hydrant.

MATERIALS

The proposed water main replacement will consist of 12 inch D.I.P. All valves, fittings and fixtures will conform to ECWA Standard Specifications.

INSTALLATION

The proposed 12 inch water main will be installed and tested in accordance with ECWA Standard Specifications. Inspection of the main installation and the testing of water samples will be done by ECWA. All proposed waterlines will maintain physical separation from the other utilities as per Ten States Standards.

## WATERLINE DESCRIPTION

Roll Rd.  
TOWN OF AMHERST/CLARENCE  
FN: AMTN-756-1901  
PN: 201900126

May 15, 2019

Beginning at a point on the existing 12 inch water main in the westerly R.O.W. of Transit Rd., approximately 90 FT north of the centerline of Roll Rd., and approximately 50 FT west of the centerline of Transit Rd. Thence 12 inch D.I.P. easterly a distance of approximately 170 FT to tie into the existing 8 inch water main in the northerly R.O.W. of Roll Rd., approximately 80 FT east of the centerline of Transit Rd. and approximately 35 FT north of the centerline of Roll Rd.

# ROLL RD., AMTN/CLTN



INSTALL A NEW 12" CROSSING  
ROLL RD.  
TOWN OF AMHERST/CLARENCE  
PN: 201900126 FN: AMTN-756-1901

8550

5589

10" Ductile Iron Pipe

TRANSIT RD

L05F58 5G 8" Cast Iron Pipe

L05F58 4G

L05F58 6G 8" Cast Iron Pipe

L05F58

L05F58A

TRANSIT RD

ROLL RD

KLEIN RD

12" Ductile Iron Pipe

L06B02A 2SV 10" Ductile Iron Pipe

L05F58A 3G

L05F58A 2G

30" Concrete Cylindrical Pipe L06B02A 3B

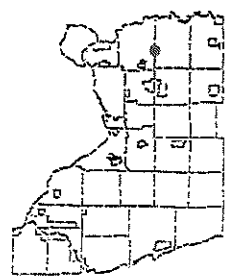
L06B02A 4GS

5575

8530

Legend:

Parcels







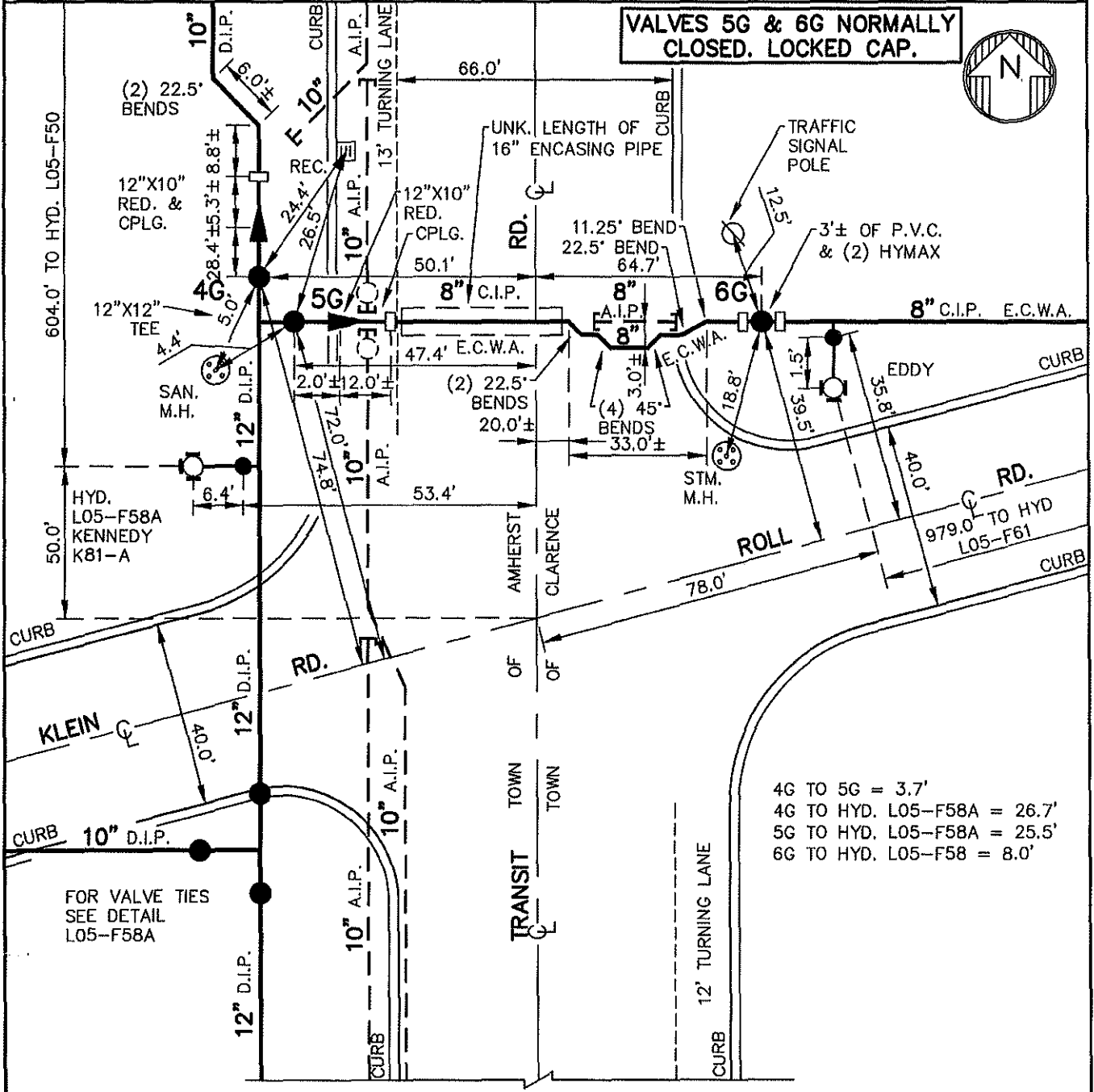
**ERIE COUNTY**  
**WATER AUTHORITY**  
 BUFFALO, NEW YORK

REVISED DR. R.D.C.  
 DATE: 3/20/2019  
 FIELD

REVISED DR.  
 DATE:  
 OFFICE

TOWN OF AMHERST  
 W.D. 15C  
 TOWN OF CLARENCE  
 E.C.W.A.

L05-F58  
 DETAIL SHT. NO.  
 CURRENT PROJECT NO.



4G TO 5G = 3.7'  
 4G TO HYD. L05-F58A = 26.7'  
 5G TO HYD. L05-F58A = 25.5'  
 6G TO HYD. L05-F58 = 8.0'

**NOTE:** VALVES 5G & 6G CLOSED TO ISOLATE LEAK UNDER TRANSIT RD. ON 3/16/2019.

**NOTE:** VALVE 2G REMOVED UNDER AMTN-465-9801-FD. VALVES 1G & 3G A.I.P. UNDER AMTN-465-9801-FD.

**NOTE:** DETAIL DRAWN ON CAD SYSTEM. ± DIMENSIONS FROM AS-BUILTS & W.O., NOT FIELD CHECKED.

W.O. #CW37025  
 AMTN-465-9801-FD  
 HWNY-888-9601-P  
 HWNY-888-8301-PFS-38  
 3E-2  
 2C-1-A

L05-F58  
 DETAIL SHT. NO.

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