ERIE COUNTY WATER AUTHORITY



INTEROFFICE MEMORANDUM

July 25, 2018

To:

Terrence D. McCracken, Secretary to the Authority

Russell J. Stoll, PE, Executive Engineer

From:

Leonard F. Kowalski, Senior Distribution Engineer

Subject: NYSDOT Mill & Overlay Project RT 5

Please include an agenda item for an Operations Report for the next Board Meeting regarding the proposed NYSDOT Mill & Overlay project on RT 5 in Hamburg and Lackawanna. This item will be reported by Russell Stoll.

The New York State Department of Transportation (NYSDOT) contacted the Authority in May to inform us that they are planning a paving project on RT 5 between Big Tree Road in Hamburg and Ridge Road in Lackawanna. The project is scheduled to be let in 2020.

The following documents are attached:

- Map depicting approximate leak locations between Ridge Rd and Milestrip Expy.
- Work order leak history for RT 5, City of Lackawanna
- Work order leak history for RT5, Lackawanna City line to 3400 Lakeshore Rd.
- Pages 40 & 41 from Field Book 236.

NYSDOT contacted the Authority in an attempt to coordinate any work that the Authority might be planning for this corridor in the next few years. As of right now there isn't any work under design for this location.

There was a feasibility study done for this corridor in 2014. The feasibility study focused on moving the watermain out of the roadway and into a bike path that the County of Erie was planning to construct. Based on the leak history in the Lackawanna section of RT 5 and overall cost, the Authority did not pursue this option. The northern part (Bethlehem Steel section) of the bike path is currently under construction. The watermain along the Lackawanna section of RT 5 was installed in the early 1900's and portions of the Hamburg Section were installed in the 1940's.

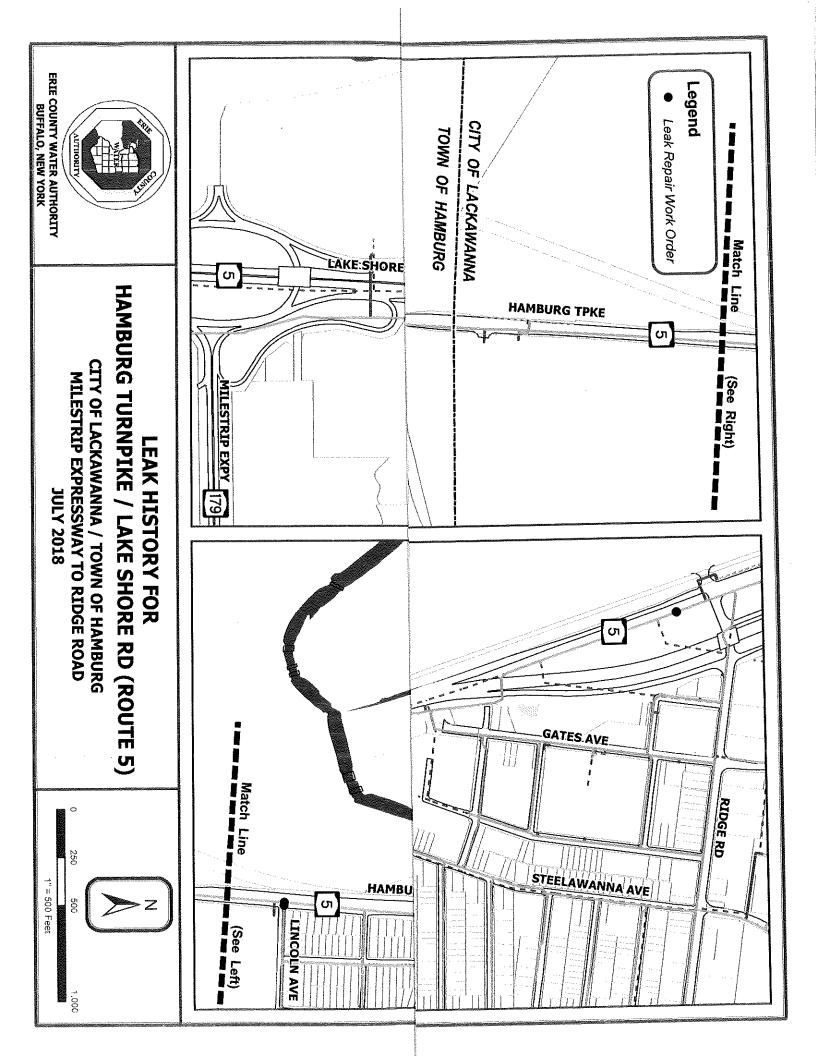
The section of RT 5 that has been more problematic is the southern section that is located between Lake Ave and 7th Street. The 24" watermain in this area was installed circa 1949. This section of pipe has experienced joint leaks over the years and the pipe itself is in fair condition. The Authority has multiple asphalt patches in this area where joint leaks have been repaired over the past several years.

A preliminary estimate was developed to perform waterline replacement work between Lake Ave and 7th Street and the work would cost between \$1,400,000 to \$1,800,000 for approximately 2,000 ft of 24" watermain replacement. Another option that could be considered is excavating at each joint and installing joint clamps. This option would be less expensive than full pipe replacement and less time consuming than full pipe replacement, although the expected design life of this repair would be significantly less than full pipe replacement.

The benefits to pursuing a project along this corridor are twofold, the Authority would save on restoration costs and it would hopefully prevent excavating a newly paved road to repair a watermain leak.

Time is of the essence with this project. The Authority would need to start design soon if we plan to get the work done before NYSDOT performs their paving project. The Engineering Department will work with the Legal Department to discuss the options of getting a contract in place with a consultant to perform the design work if the Board decides this is a project worth pursuing.

Attachments cc: R. Lichtenthal



Page

Search.: WSTT = "HAMBURG TPKE" & WCTYC = "LACY" & WSCOP = "LEAK" CTYC = "LACY" & WSCOP = "LEAK"

W/O No.	Address		Town	Work	scope		Date Compl	Crew
9052451	HAMBURG TPKE		LACY	MATN	LEAK	REPAIR	5/14/1990	พวร
9055618	HAMBURG TPKE		LACY			REPAIR	5/18/1990	
9057954	HAMBURG TPKE		LACY			REPAIR	1/04/1991	
9059416	HAMBURG TPKE		LACY			REPAIR	8/14/1990	
9150166	HAMBURG TPKE		LACY			REPAIR	1/07/1991	
9162107	HAMBURG TPKE		LACY			REPAIR	9/16/1991	
9164529	HAMBURG TPKE		LACY			REPAIR	10/31/1991	
9750332	HAMBURG TPKE		LACY			REPAIR	1/08/1997	
9967537	HAMBURG TPKE		LACY			REPAIR	8/02/1999	
772227	HAMBURG TPKE					REPAIR	9/06/2007	
858923	HAMBURG TPKE					REPAIR	4/23/2008	
1267328	HAMBURG TPKE		LACY			REPAIR	11/29/2012	
1268524	1951 HAMBURG	TPKE	LACY			REPAIR	7/25/2012	
9855813	2366 HAMBURG	TPKE	LACY			REPAIR	4/15/1998	
1279131	2424 HAMBURG	TPKE	LACY			REPAIR	11/12/2012	
8960463	2530 HAMBURG	TPKE	LACY	MAIN	LEAK	REPAIR	11/14/1989	Y53
9056626	2600 HAMBURG	TPKE				REPAIR	6/13/1990	Y37
9975017	2600 HAMBURG	TPKE	LACY	MAIN	LEAK	REPAIR	11/15/1999	Y38
767340	2756 HAMBURG	TPKE	LACY	MAIN	LEAK	REPAIR	7/01/2007	
767350	2756 HAMBURG	TPKE	LACY	MAIN	LEAK	REPAIR	7/02/2007	
Total Reco	rds Listed:	20					,,,	

HAMBURG TAKE is within the City of Lackawanna. ~10,000 FT.

20 /caks/1.89 miles/28 years = 0.38

Run Date 10/25/2017 Page 1

Search.: WXADD = %RANGE(" 3000" " 3400") & WSTT = "LAKE SHORE RD" & WCTYC = "HA 3400") & WSTT = "LAKE SHORE RD" & WCTYC = "HATN" & WSCOP = "LEAK"

W/O No.	Address	Town Workscope	Date Compl Crew
259293	3176 LAKE SHORE RD	HATN MAIN LEAK REPAIR	5/30/2002 Y95
961664	3184 LAKE SHORE RD	HATN MAIN LEAK REPAIR	8/24/2009 Y95
9967853	3281 LAKE SHORE RD	HATN MAIN LEAK REPAIR	8/16/1999 Y38
668253	3281 LAKE SHORE RD	HATN MAIN LEAK REPAIR	8/15/2006 Y95
9757520	3291 LAKE SHORE RD	HATN MAIN LEAK REPAIR	5/14/19 <u>97</u> , Y38
9870286	3314 LAKE SHORE RD	HATN MAIN LEAK REPAIR	10/24/1998 ¥53
9764986	3319 LAKE SHORE RD	HATN MAIN LEAK REPAIR	8/06/1997 Y38
654833	3319 LAKE SHORE RD	HATN MAIN LEAK REPAIR	3/21/2006 Y95
779244	3319 LAKE SHORE RD	HATN MAIN LEAK REPAIR	11/16/2007 Y95
1279732	3319 LAKE SHORE RD	HATN MAIN LEAK REPAIR	12/13/2012 Y44
770705	3326 LAKE SHORE RD	HATN MAIN LEAK REPAIR	8/07/2007 Y95
9971416	3333 LAKE SHORE RD	HATN MAIN LEAK REPAIR	9/27/1999 Y38
1356504	3333 LAKE SHORE RD	HATN MAIN LEAK REPAIR	3/18/2013 Y44
1357993	3333 LAKE SHORE RD	HATN MAIN LEAK REPAIR	3/28/2013 Y44
1554313	3337 LAKE SHORE RD	HATN MAIN LEAK REPAIR	2/25/2015 Y48
467462	3354 LAKE SHORE RD	HATN MAIN LEAK REPAIR	9/19/2004 Y74
9952759	3355 LAKE SHORE RD	HATN MAIN LEAK REPAIR	2/04/1999 Y38
1553922	3355 LAKE SHORE RD	HATN MAIN LEAK REPAIR	2/24/2015 Y48
1176455	3363 LAKE SHORE RD	HATN MAIN LEAK REPAIR	10/09/2011 Y38
1453339	3377 LAKE SHORE RD	HATN MAIN LEAK REPAIR	2/08/2014 Y16
59908	3379 LAKE SHORE RD	HATN MAIN LEAK REPAIR	5/30/2000 Y38
580119	3380 LAKE SHORE RD	HATN MAIN LEAK REPAIR	12/14/2005 Y95
Total Reco	ords Listed: 22	·	

Lake Shore Rd From Lackawanna line to

3400 Lake Shore Rd.

24,400 FT.

22 leaks/0.83 mile/20 years = 1.32

							ة م م	}		7				-		Collec		24 40 X	7					Jed 4.3	Noo N.
	1000 CV	, b	^		,		(Cur	- 6		1 4	•		 	1 C Valent	- -		nis -		·
			X				7 - Y		*82 - Y	7.7.7						(KT 23		(2 \U.\					1471	from P4
.03		ŀ	+		م م		ر ا ا		1.69+		20 20 20 4		,			17 52).		=	9	9	\			- 29 - 29
1/2 2/2 2/2			4		7 0 / +				Aug 15. 58	0.064				-					-			0 8 0			***************************************
			. a		- 2		تر ق ناخ			2		-	· · ·				,	\.)					lice to	Moodlamy Yotel per
	77		- 8- 7: - 7: - 7:			₩	2 t			Ź						97, 97 1-	_	4	-	77.0	77			Sein	Not Total
			7 s lacol	-		0	√./ Q'	1		7						Nov. 21			7779 1 1 1	7 to	हैं कि				
				•	-		L		Y (7.0)	de gale			<u> </u>	Same fina		adjo djest	्रेप प्रकार के	,		ğ I	3	4 14 10			
					1	લ્સાર્સ ક	•									-				6					•
)											,	30			-
	-		4V	3					7	1				0 1/ 40 C					3. 70					7	
<u> </u>	3	4	4 2	٥		•		and the same of th	4 4 6 7/			603	70.0	De boo av	ファダエ						THE CHARLES AND THE CONTRACTOR				
	7,000	1201				74106	7 C	 -	A					22 T					S.1.W.C.		The state of the s				
North		S. A. D. Wall			ć.	7,	1 4		8	1				Cherete Part	1. 1.		و		ر م را اعراق الا			1		4	
Set No Work		X 51a los		0,0	720	2			1250,8	1		1.444.1))	3			ر ب ر	+	[]						
Nov 19		Sichemalk		-			0 6 t 0	437		4372	0					-		-							
						į	(1	-		1,)						,		,		-		4		

31.5 31.5		000 00 00 00 00 00 00 00 00 00 00 00 00	Energy (2) (4) (4) (5) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6	DOSC 74 ST. 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Nov. 30 1949 Gas D Tolor Nov. 29 Nov. 30 1949 Gas D Tolor Nov. 20 St. 24 x 11 Review A Sidy Noval was Hole Tolor Stane 2. Cover, Nov. 30 The first St. Manhole France 2. Cover, Nov. 30
	15 S Line Wosellawn Weth	2,8 = 0, cmc 180 0+3 444 44530	S. of Cont. 2600 Carl. 5.	24"Sold Sleeve 602 24"Sold Sleeve 602 245x169 Recl - 3-64 boug	129 0 1677 1677 2485 0+1505 0 129 0 1677 1677 12485 0+1565 0+283 Cear Value in Cof 0+129 cul Perion / Ferroll Pass to East was open in Value found closed - opened same