

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.961

Historic Name: Boott Dam and Gatehouse

Common Name: Boott Dam and Dam House

Address: Eastern Canal

Eastern Canal opposite Kirk St

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: 1835

Architect(s):

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Archaeology, Historic; Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



The Massachusetts Historical Commission (MHC) has converted this paper record to digital format as part of ongoing projects to scan records of the Inventory of Historic Assets of the Commonwealth and National Register of Historic Places nominations for Massachusetts. Efforts are ongoing and not all inventory or National Register records related to this resource may be available in digital format at this time.

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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Wednesday, November 6, 2019 at 3:56: PM

LOWELL CULTURAL RESOURCES INVENTORY

		*	10 NHL	12/02/77
ID	ENTIFICATION EASTE	RN CANAL opposite	KIRK STREET	MAP SHEET # 8
	CURRENT OWNER Propr			
			1/25/	/ _
2)	HISTORIC NAME Boott	Dam		
3)	CURRENT NAME same	10		
4)	PROPERTY TYPE canal	structure	5) ZONING CLA	SSIFICATION B-3
6)	TAXES: PAYMENTS curre	nt	STATUS clear	3
	WITHIN BOUNDARIES OF			
			*	
HI	STORICAL ABSTRACT	(2)		
1)	CONSTRUCTION DATE	1835/1878/1892	1 1	
	SOURCE do	cumented: Lower M	errimack ValleyIn	nventory, pages 77, 78
2)	ARCHITECT OR BUILDER	unknown		1
3)	HISTORIC OWNER	Proprietors of	Locks and Canals	
4)	ORIGINAL USE: GF	canal regulation	n UF n/a	
	PREVIOUS BLDGS ON PROPE	And the second state of th		
-,	SOURCE			
DE	SCRIPTIVE DATA			
	ARCHITECTURAL STYLE	VIEW FROM	southeast PHOTO	TAKEN October 1979
20-0-00X	utilitarian		*	2 construer, eac.
	PRESENT USE:	191		
-,	GF canal regulation			
	UF n/a			
3)	NO OF STORIES 1			
	PROP SQ FT n/a	appropriate and a		and the same of th
	PLAN curved front	Type S & J		
	ROOF end-wall gable	7. 1111/		
	STRUCTURAL SYSTEM			
.,	wood-frame			
8)	OUTBUILDINGS			
	none			se la
9)	MATERIALS:			
-,	FOUNDATION	70 75		
	AL AN MONATURA			10
	not visible FACADE all sides: ver	stical corrected	natal	
	TRIM none	Lital Cultilyated	WE-1-7-1	
10)	NOTABLE SURFACE	SCAPE ET EMENTS	none 62.62	
10)	HOTABLE SOKTACE	YOUR THEMESITE	none	

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

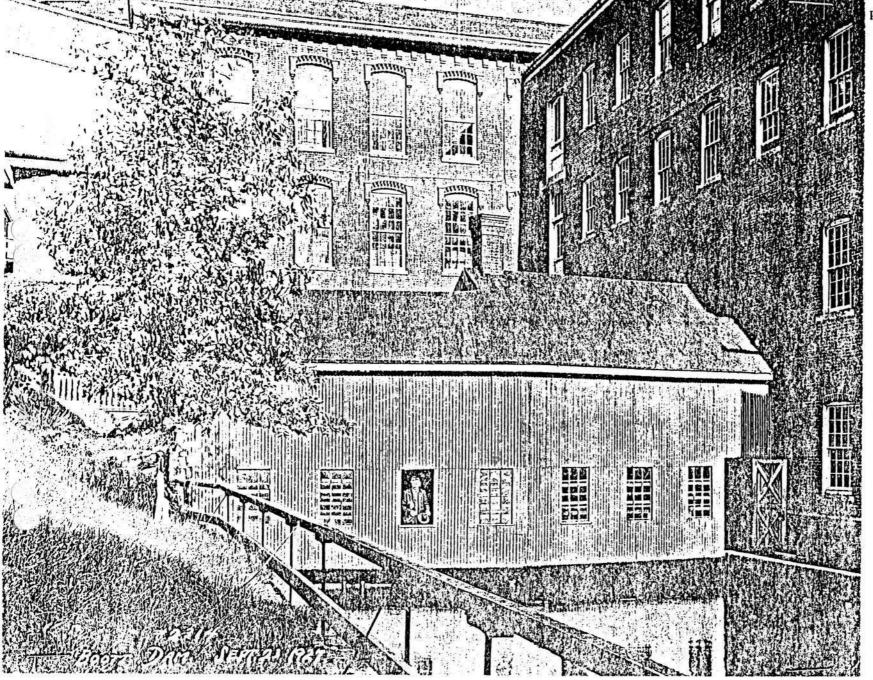
The Boott Dam was built in 1835 to maintain the level of the Western Canal. Its distinctive curved face is shown on the 1835 indenture drawing for the Boott Mills (See Eastern Canal Inventory Form.) A sluiceway with a portcullis gate was cut into the dam in 1878, to assist in removing ice from the canal. The dam's stepped face probably dates to that period, as does its earliest sheltering structure. The present structure is a product of an 1892 rebuilding to accommodate hydraulic equipment to lift the sluice gate, equipment that is still in place. The three concrete siphon spillways were added in the 1940s.

Source

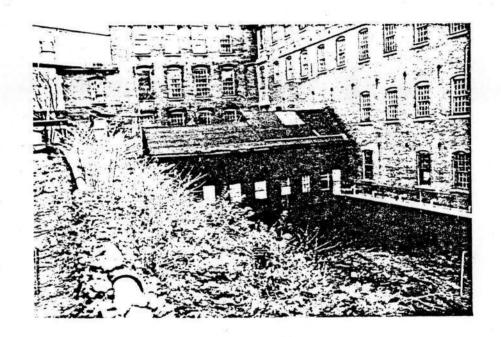
Lower Merrimack... Inventory, HAER and MVTM, page 78.

ARCHEOLOGICAL COMMENT

This canal feature has undergone several rebuildings. An archeological examination of the site might help elucidate the sequence of changes to the dam.

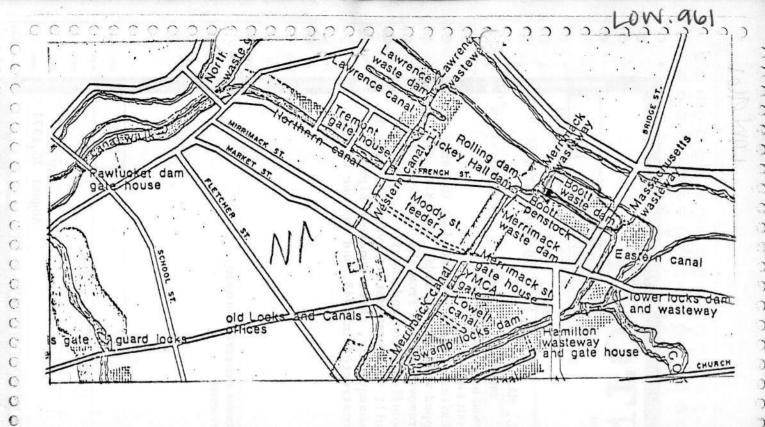


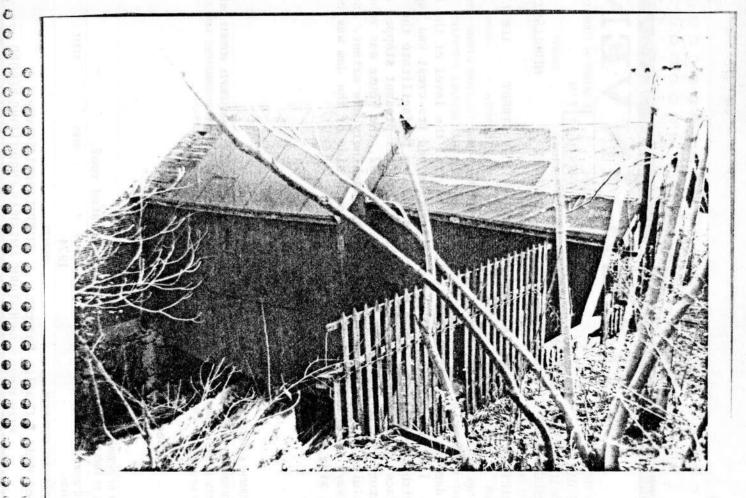
"Boott Dam. Sept. 23, 1927." University of Lowell Library, Special Collections, Locks and Canals photo #2314.



View of the Boott Dam from the southeast, with the water drained from the Eastern Canal. Photo taken in October 1979.

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EXISTING SURVEYS DATA DWG	S PHOTOGRAPHS			STATES	4.40			SHEAR!	
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				IU	IL	T		-,	
1. NAME OF STRUCTURE BOOTT DAM	2. DAT	3. NATU 878:1892 DAM	URE OF STRUCTURE			RIAL CLASSII STRUC : F		(81.	21
5. LOCATION: STREET & NUMBER EASTERN CANA		OR TOWN	COUNTY			6. USGS 7		_	_
INTERSECTION OF KIRK & FRENCH	STS. LOW	VELL	MIDDLESEX		MA	LOWEI			
7. OWNER OF PROPERTY	ADDRESS	TOURI CORREDO				19.31	10670.47	24110	13.00
PROPRIETORS OF THE LOCKS & CAN 8. CONDITION: EXCELLENT GOOD		JOHN STREET	LOWELL,	MA.		TERED	T ACCECCI	BLE TO PUI	DI 10
9. DESCRIPTION & BACKGROUND HISTORY: NUMBER OF	The state of the s		Charles Control of the Land	The state of the s	and the second second second second	Balling and Marie Control	AUGESSI	DLE IU PUI	DLIC
EQUIPMENT; APPROX. AREA OF SITE; ALTERATIONS; F	RESENT USE; ENGINEER/	ARCHITECT/DESIGNER	R; IMPORTANT EVENT	S & INDIVIDUALS					
This dam was originally built	in 1835 to cont	trol the leve	of the Eas	stern Cana	1, com	pleted	at the	same	
time. Its face was in a curve way with portcullis gate was b	a configuration	l and its cre	tate the rev	ed With fl	ashboa	rds. I	n 1878	, a slu	ui ce
The face of the dam was probab	ly rebuilt into	its present	stepped con	nfiguratio	n and	the fir	st enc	losing	
structured built over it at th	at time. In 18	392 the hous	e was rebui	It to acco	mmodat	e a hyd	lraulic	lift (on
1 WC CII		or, the new							OIL
the sluice gate. This house a	nd its gate mad	chinery are e	extant. Subs	sequently,	three	concre	te sipl	non	
the sluice gate. This house a spillways were added. The pai	nd its gate mad r on the south	chinery are e side of the	extant. Subs	sequently,	three n 1948	concre	te siple the one	on the	
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LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Identification-IDLCS: 40598 Structure Number: BOOTT.GH Structure Name 1: BOOTT DAM AND GATE HOUSE Structure Name 2: BOOTT DAM & DAM HOUSE Structure Name 3: Park Alpha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK ORGCODE: 1780 County: MIDDLESEX State: Regional Office: NORTH ATLANTIC State: MA Subunit ORGCODE: Name: County: MIDDLESEX Alpha Code: State: MA Zone/Easting/Northing Number of UTM's: 0 -Significance-NR Status: ENTERED - DOCUMENTED Date: 10/18/85 Significance: NATIONAL NHL: YES Date: 12/22/77 Significance DAM BUILT 1835 TO MAINTAIN WATER LEVEL @ WESTERN CANAL; SLUICEWAY W/ PORTCULLIS GATE ADDED 1878 TO FACIL. ICE REMOVAL. PRESENT STRUCT. IS PROD. OF 1892 REBUILDING TO ACCOM. HYDRAULIC SLUICE GATE LIFTING EQUIP'T. CONC. SIPHON SPILLWAYS ADDED 1940s. -Historical Information-----Period of Construction: HISTORIC Date: 1835- (BU) Designer: Date: 1878-1892 (AL) Designer: Date: 1940-1950 (AL) Designer: Date: 1990-1991 (RH) Designer:NPS -Functions, Uses, Materials, Impacts, and Condition-Historic Functions Current Uses DAM DAM UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE -Buildings-----Materials-----Structures-Foundation: STONE
Framing: WOOD
Walls: METAL
ROOF: SYNTHETICS Sub-structure: STONE CONCRETE Super-structure: CONCRETE Other: BRICK Volume: 2,001 - 20,000 CUBIC FT Description 1-STORY GATE HOUSE W/ GABLE ROOF, CORRUG'D. MTL. SIDING, BRICK CHIMNEY STRADDLES STEPPED-FACE DAM & SLUICE GATE. STONE SPILLWAY, 3 CONC. SIPHONS, FLASH BDS. GATE HOUSE IS STRUCT'L. MISHMASH W/ STL. ANGLES & LALLY COLS.: SOME ORIG. PLANKING. Impact Level: MODERATE Impact Types: INUNDATION (FLOODING) STRUCTURAL DETERIORATION Condition: FAIR

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name Number BOOTT DAM AND GATE HOUSE MAIN TTOOR : E MANN AS BOOTT.GH 40598 LOWE -Management Information-NPS Legal Interest: NONE - LOCAL GOVERNMENT OWNED Federal Owner: Life: Exp. Date: / / Local Owner: MA/DEM Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANDENT. Exp. Date: 04/03/96 Date: / / Date: 08/00/81 Proposed Ultimate Treat: Doc: Approved Ultimate Treat: REHABILITATION Doc: GMP Treatment Costs Treatment Responsibilities \$0 Date: / Interim Treatment: OTH Interim: Ultimate Treatment: OTH Ultimate: \$0 Date: Routine Maintenance: OTH Level of Estimate: Cyclic Maintenance: OTH Estimator: Approved Ultimate Treatment Completed: YES LOWELL LOCKS & CANALS HISTORIC DISTRICT. NPS DAM #144. REHAB. WORK PERFORMED BY CRC FOR LHPC. FIRE/INTRUSION ALARMS INSTALLED 1993. NPS SHARES GROUNDS MAINTENANCE RESPONSIBILITIES W/ STATE. ABUTS PRIVATELY-OWNED BOOTT MILL COMPLEX. -Major Bibliographical References-Nat. Cat: NO Nat. Reg.: 78003149 CSI: BRIDGES: DAMS: MA HABS: HAER: MA-7-A QTRS: A MANAGEM , aself , anoldone CRBIB Other CLI

Documentation Level: FAIR

1.

2.

4.

Date Entered/Updated: 07/20/94 Logger: JIG

HRS 1. 010385 HS ASSESS 2. 400107 HSR 3.

CLR 4. 5. 400108

Date of Report: 04/04/95

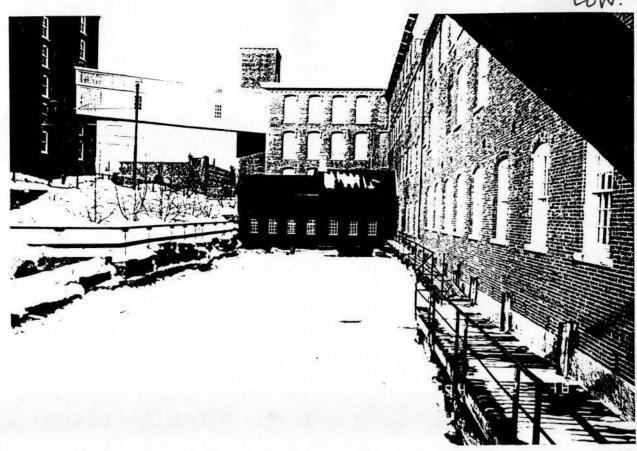
3.

1. 400101 MALONE. CANALS & IND.

2. 010390 GMP

page 2 of 2

To ! I space



Structure No. BOOTT.GH

IDLCS: 40598

BOOTT DAM AND GATE HOUSE



Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.923
Historic Name: Eastern Canal

Common Name:

Address: Eastern Canal

Bridge and French Sts

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: c 1835

Architect(s):

Architectural Style(s):

Use(s): Other Industrial; Utilities Other

Significance: Archaeology, Historic; Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

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(06/05/1978); Local Historic District (12/13/1983)

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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Thursday, November 7, 2019 at 9:28: AM

LOW 923 1923

LOWELL CULTURAL RESOURCES INVENTORY 10 -8/13/76- NRAU From LOWER LOCKS, parallel to IDENTIFICATION BRIDGE STREET, then parallel to FRENCH STREET MAP SHEET #7, 8, 12 1) CURRENT OWNER Proprietors of Locks and Canals OWNER OCCUPIED yes BEI LUD 12/13/23 2) HISTORIC NAME _____Eastern Canal 3) CURRENT NAME _____same 4) PROPERTY TYPE ______ 5) ZONING CLASSIFICATION B3, B2-A 6) TAXES: PAYMENTS current STATUS clear 7) WITHIN BOUNDARIES OF ____ LNHP, LHPD, Locks and Canals HD HISTORICAL ABSTRACT 1) CONSTRUCTION DATE 1835 SOURCE documented: See Research Report 2) ARCHITECT OR BUILDER ____unknown 3) HISTORIC OWNER _____ Proprietors of Locks and Canals 4) ORIGINAL USE: GF power and navigational canal UF n/a 5) PREVIOUS BLDGS ON PROPERTY yes DATE ca. 1800 (?) - 1835 ("Mansion House") SOURCE _____ circumstantial: maps DESCRIPTIVE DATA VIEW FROM southwest PHOTO TAKEN October 1979 1) ARCHITECTURAL STYLE n/a 2) PRESENT USE: GF __nower_canal____ UF n/a 3) NO OF STORIES n/a 4) PROP SQ FT ____n/a__ 6) ROOF _____n/a 7) STRUCTURAL SYSTEM concrete and ashlar masonry 8) OUTBUILDINGS Mass. Wasterway, Boott Dam, Boott Penstock

FACADE granite ashlar, poured concrete TRIM n/a

9) MATERIALS: FOUNDATION

10) NOTABLE SURFACE LA DSCAPE EL MENTS various fonces

ADDRESS From LOWER LOCKS, parallel to BRIDGE STREET, then parallel to FRENCH ST.

VI	SUAL ASSESSMENT		
1)	CONDITION OF BUILDING FABRIC		good
2)	IF DETERIORATED, CAUSES		n/a
3)	INTEGRITY OF HISTORIC BLDG FABRIC:	GF	intact with evolutionary alterations
		UF	n/a
4)	SURROUNDING LAND USES _commercial,	indust	rial, residential, railroad, canal frontage
5)	INTEGRITY OF PROP'S HIST SETTING _	intac	t with minor intrusions and/or losses
6)	IMPORTANCE OF PROP TO HIST SETTING	integ	ral to character

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

See Reserach Report, page 9.

The Eastern Canal follows an L-shaped course from the Lower Locks of the Pawtucket Canal to the wasteway it shares with the Merrimack Canal, along the northwestern boundary of the Boott millyard. The single-level canal is 2,037 feet long, forty to sixty-five feet wide, and an average of eight feet deep.

Built in 1835 to power the new Boott Mills with a seventeen-foot fall of water, the Eastern also supplied the Massachusetts Mills (after 1829) and the Prescott Manufacturing Company (after 1844). A problem of low water at the end of the Eastern Canal was alleviated by the construction in the late 1840s of a penstock that delivered water from the Merrimack Canal. (See Inventory Form on Boott Penstock.)

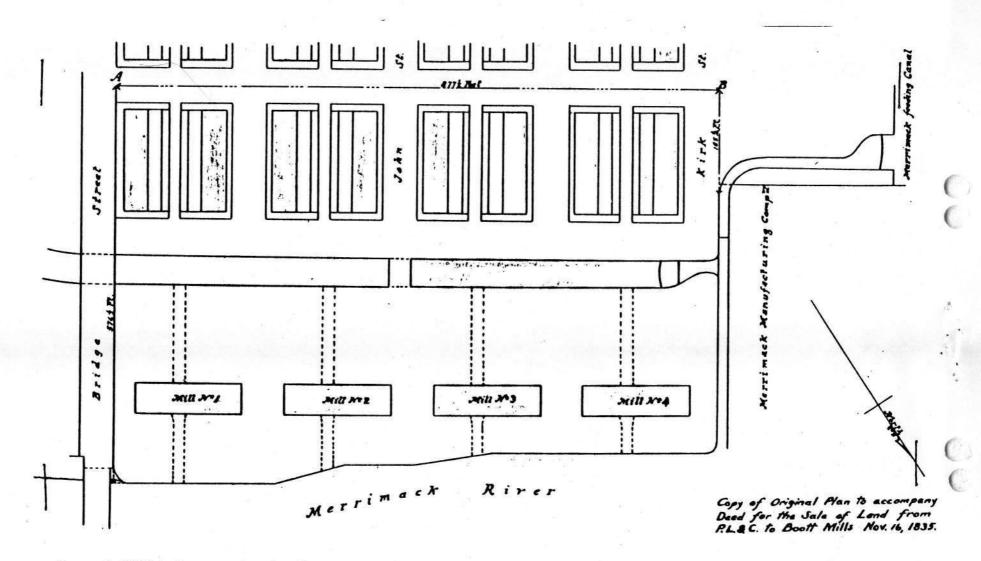
ARCHEOLOGICAL COMMENT

The Prescott millyard has been razed, but the site probably preserves belowground elements of the waterpower system for the mill.

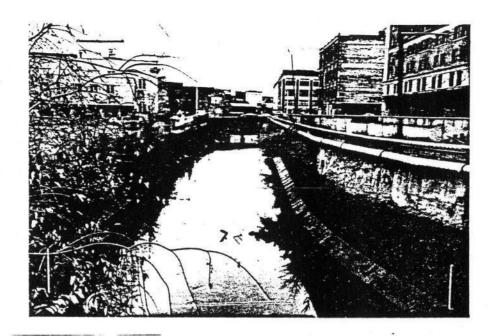
Sources

Research Report.

Lower Merrimack.... Inventory, HAER and MVTM, page 77.

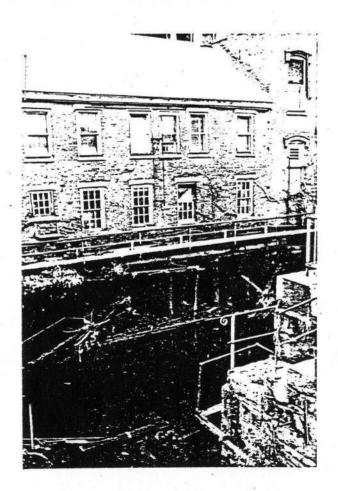


Copy of 1835 indenture drawing for Boott mill, showing the Eastern Canal, the Boott raceways, and the Merrimack wasteway. Proprietors of Locks and Canals Archive. Photo courtesy of HAER.

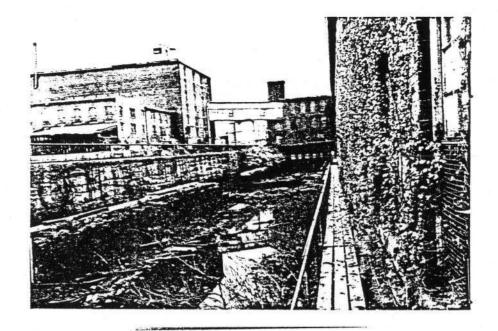


View of the eastern leg of the Eastern Canal, from the northeast. Photo taken in October 1979.

Detail of the Eastern Canal by the Boott Counting House, showing the granite piers which carry that building, over an apparently inactive penstock opening. Photo taken in October 1979.



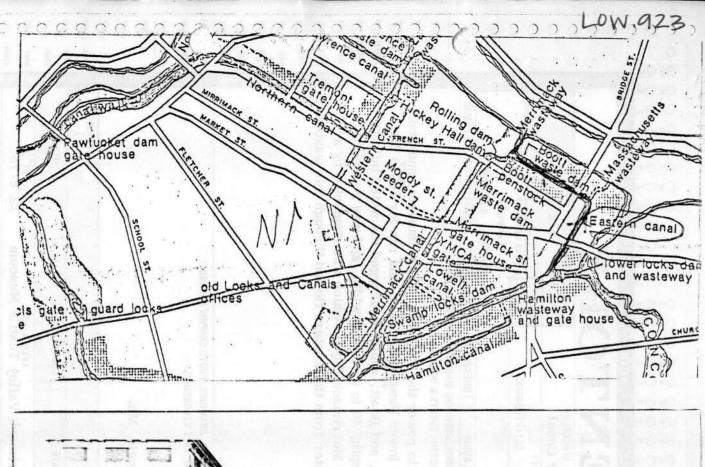
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Two views of the final length of the Eastern Canal, looking northwest toward the Boott Dam. The low wall within the course of the canal is a part of the Boott penstock. Photographs taken in September (top) and October (bottom) 1979.

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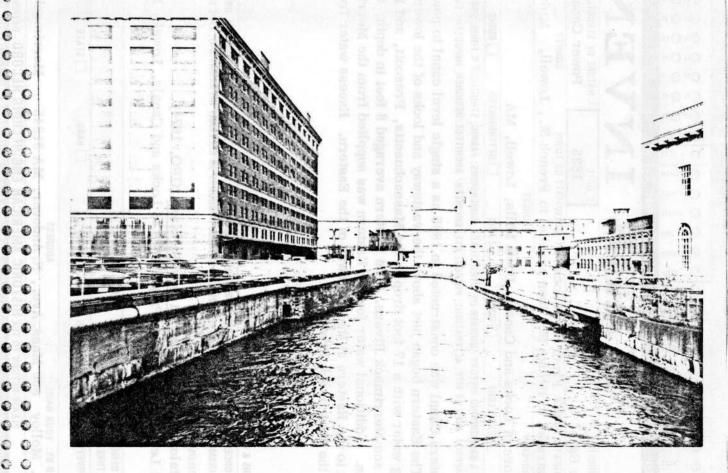
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LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Tdentification----IDLCS: 40570 Structure Number: EASTERN Structure Name 1: EASTERN CANAL Structure Name 2: Structure Name 3: oha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK
ORGCODE: 1780 County: MIDDLESEX State: MA
Regional Office: NORTH ATLANTIC Park Alpha Code: LOWE Subunit ORGCODE: Name: County: MIDDLESEX State: MA Alpha Code: Number of UTM's: Zone/Easting/Northing -Significance-NR Status: ENTERED - DOCUMENTED Date: 10/18/85 Significance: NATIONAL NHL: YES Date: 12/22/77 Significance DESIGNED TO POWER NEW BOOTT MILLS (WHICH HAD PURCHASED 9 MILL POWERS) W/ 17' FALL OF WATER; ALSO SUPPLIED MASS. MILLS AND PRESCOTT MFG. CO. LOW WATER PROBLEM ALLEVIATED BY CONSTR'N. OF PENSTOCK, LATE 1840s, THAT DELIVERED WATER FROM MERRIMACK CANAL. -Historical Information-Period of Construction: HISTORIC Date: 1835-1836 (BU) Designer: Date: 1839-1844 (AL) Designer: Date: 1848-1849 (AL) Designer:) Designer: Date: -Functions, Uses, Materials, Impacts, and Condition-Current Uses Historic Functions CANAL CANAL UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE -Buildings-----Materials-----Structures-Sub-structure: STONE Foundation: GRANITE Framing: Walls: Super-structure: STONE Roof: Other: GRANITE CONCRETE Volume: Description SINGLE-LEVEL CANAL FOLLOWS L-SHAPED COURSE FROM LOWER LOCKS NORTHWARD TO WASTEWAY SHARED W/ MERRIMACK CANAL. SWINGS WESTWARD AND RUNS PARALLEL - BUT OPPOSITE IN DIRECTION - TO MERRIMACK RIVER. APPROX. 2037' LONG; 40'-65' WIDE; AVG. 8' DEEP. Impact Level: MODERATE Impact Types: STRUCTURAL DETERIORATION

Condition: GOOD

INUNDATION (FLOODING)

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

Number IDLCS Park Structure Name

40570 LOWE EASTERN CANAL EASTERN

-Management Information-----

NPS Legal Interest: NONE - PRIVATELY OWNED Life: Exp. Date: / / Federal Owner: Local Owner: BH

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96

Approved Ultimate Treat: PRESERVATION Doc: GMP Date: 0:

Date: / / Date: 08/00/81

Treatment Costs Treatment Responsibilities

Interim Treatment: OTH Interim: Ultimate Treatment: OTH Ultimate: \$0 Date: \$0 Date:

Routine Maintenance: OTH Level of Estimate: Cyclic Maintenance: OTH Estimator:

Approved Ultimate Treatment Completed: YES

Management Text

LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS CANAL WALLS/FLOORS; NPS SHARES MAINT. RESPONSIBILITIES W/ STATE ALONG CANALWAY. TROLLEY BRIDGE COMPLETE; CANAL WALKWAY PROPOSED.

-Major Bibliographical References-

Nat. Cat: NO Nat. Req.: 78003149 CSI:

BRIDGES: HABS: HAER: MA-7 DAMS:

- gold thood has also QTRS:

Other CRBIB CLI

1. 400101 MALONE, CANALS & IND. 1.

2. 010390 GMP 2.

HRS 1. 010385 HS ASSESS 2. 400107 HSR 3. 3. 3.

CLR 4. 4. 4. 5. 400108

STRUCTURES DETERTORATION

Documentation Level: GOOD

Logger: JIG Date Entered/Updated: 07/20/94

Date of Report: 04/04/95

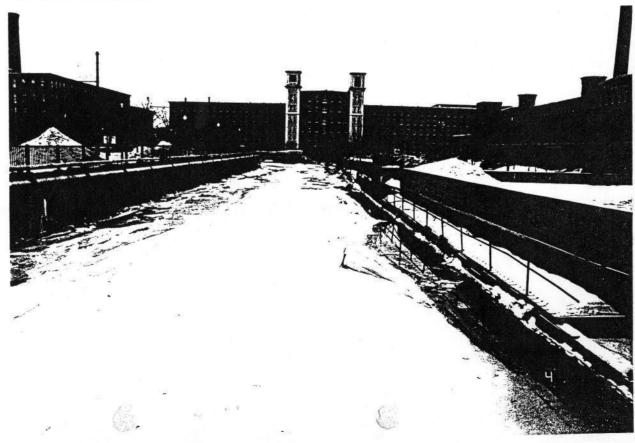
page 2 of 2



Structure No. EASTERN IDLCS: 40570

EASTERN CANAL

4



Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.9028

Historic Name: Guard Locks - Francis Gate Locks

Common Name:

Address: Pawtucket Canal

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: c 1796
Architect(s): Boott, Kirk

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):

Designation(s):

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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Thursday, November 7, 2019 at 9:58: AM

Digital Photo Not Yet Available

LIST OF CLASSIFIED STRUCTURES (LCS)

SINGLE ENTRY REPORT -Identification— Structure Number: FG.LOCK IDLCS: 40602 Structure Name 1: GUARD LOCKS Structure Name 2: FRANCIS GATE LOCKS Structure Name 3: pha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK ORGCODE: 1780 County: MIDDLESEX State: Park Alpha Code: LOWE State: MA Regional Office: NORTH ATLANTIC Subunit ORGCODE: Name: County: MIDDLESEX State: MA Alpha Code: Number of UTM's: 0 Zone/Easting/Northing -Significance-NR Status: ENTERED - DOCUMENTED Date: 10/18/58 Significance: NATIONAL NHL: YES Date: 12/22/77 Significance PART OF PANTUCKET CANAL TRANSP. SYSTEM: FIRST NAVIG. LOCK & DAM BUILT ON SITE 1796-98: SINGLE BOAT LOCK, 1720 FROM CANAL ENTRANCE. ALSO INTENDED TO PROTECT CANAL BANKS & STRUCTURES FROM FLOOD. REBUILT 1822-24 (MERRIMACK MFG. CO.) & SUBSEQ. -Historical Information-Period of Construction: HISTORIC Date: 1796-1798 (BU) Designer:
Date: 1822-1824 (AL) Designer:BOOTT, KIRK
Date: 1832-1900 (AL) Designer: Date:) Designer: -Functions, Uses, Materials, Impacts, and Condition-

Historic Functions

CANAL LOCK

UTILITY SERVICE STRUCTURE

Current Uses CANAL LOCK

INTERPRETATION FACILITY UTILITY SERVICE STRUCTURE

-Buildings-----Materials-----Structures-

Foundation:

Framing: Walls:

Other:

Volume:

NASPA 615/78

110-12/13/83

Sub-structure: STONE

GRANITE

CONCRETE

Super-structure: STONE Roof:

GRANITE

WOOD

Description

TAPERED, PROW-LIKE ISLAND (1881-1900 CONFIG.); ONCE-OVAL LOCK SIDES NOW STRAIGHT, BATTERED STONE WALLS. SINGLE-CHAMBER LOCK W/ 2 PAIRS WD. LEVER GATES. UPSTREAM GATES SHELTERED BY LOCK HOUSE. INCORPORATES FRANCIS' 1848-50 "GREAT GATE."

Impact Level: MODERATE Impact Types: INUNDATION (FLOODING)

STRUCTURAL DETERIORATION

PARK OPERATIONS Condition: GOOD

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name

Number

40602 LOWE GUARD LOCKS

FG.LOCK

-Management Information—

NPS Legal Interest: NONE - PRIVATELY OWNED Federal Owner:
Life: Exp. Date: / / Local Owner:

Local Owner: L&C

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96

Proposed Ultimate Treat:

Doc:

Date:

Approved Ultimate Treat: PRESERVATION Doc: GMP

Date: 08/00/81

Treatment Responsibilities

Treatment Costs

Interim Treatment: OTH Ultimate Treatment: OTH Interim: Ultimate:

\$0 Date: \$0 Date:

Routine Maintenance: OTH Level of Estimate:
Cyclic Maintenance: OTH Estimator:

Approved Ultimate Treatment Completed: YES

Management Text

LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS (BUT DOES NOT OWN) CANAL WALLS & FLOOR; NPS SHARES GROUNDS MAINTENANCE RESPONSIBILITIES W/ STATE. NPS DAM #594.

-Major Bibliographical References-

Nat. Reg.: 78003149

CSI: Nat. Cat: NO

HABS:

HAER: MA-2-A

BRIDGES:

DAMS: MA QTRS:

CLI

CRBIB

Other

1.

HRS 1. 010385 HS ASSESS 2. 400107 HSR 3. 010625

1. 400108 MALONE, CANAL SYSTEM 2. 400101 MALONE, CANALS & IND.

2. 3.

CLR 4.

3. 010390 GMP 4.

4.

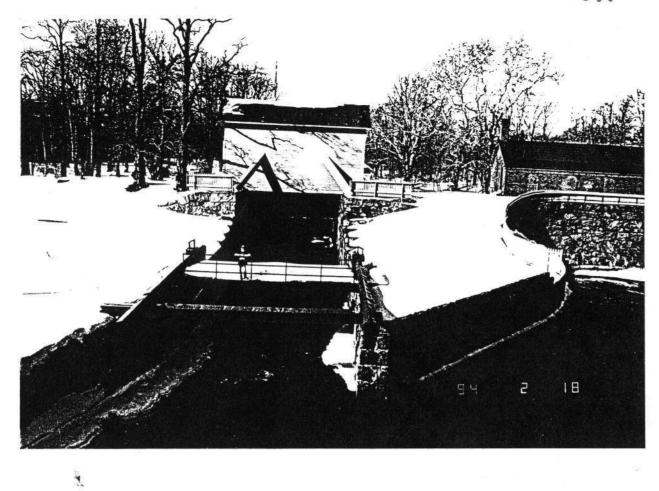
5. 010674

Documentation Level: GOOD

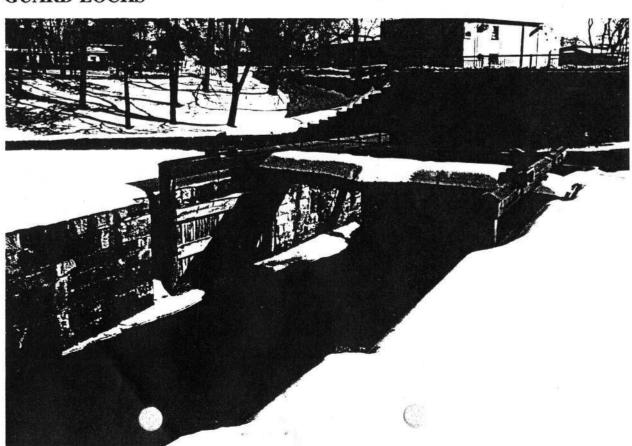
Date Entered/Updated: 07/20/94

Logger: JIG

Date of Report: 04/04/95



Structure No. FG.LOCK IDLCS: 40602 GUARD LOCKS



Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.930
Historic Name: Hamilton Canal

Common Name:

Address: Hamilton Canal Parallel to Jackson St

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: 1826

Architect(s): Batchelder, Samuel; Boott, Kirk

Architectural Style(s):

Use(s): Other Industrial

Significance: Engineering; Industry

LOW.C: Locks and Canals District

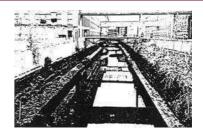
Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



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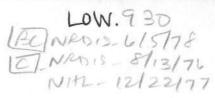
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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Wednesday, November 6, 2019 at 3:58: PM

LOWELL CULTURAL RESOURCES INVENTORY



IDENTIFICATION Parallel to JACKSON STREET	MAP SHEET #11, 12
1) CURRENT OWNER Proprietors of Locks and Canals	
2) HISTORIC NAME Hamilton Canal 13E	1 LUTS 12/13/83
3) CURRENT NAME same	1 3/6 3
4) PROPERTY TYPE <u>canal</u> 5) ZONING CI	ASSIFICATION A1
6) TAXES: PAYMENTS current STATUS	
7) WITHIN BOUNDARIES OF LNHP Locks and Canals LHE	
	0
HISTORICAL ABSTRACT	
1) CONSTRUCTION DATE 1826	
SOURCE documented: See Research Report	A TOURS OF THE PARTY OF THE PAR
2) ARCHITECT OR BUILDER Kirk Boott and Samuel Batchelde	er
3) HISTORIC OWNER Proprietors of Locks and Canals on the	
4) ORIGINAL USE: GF power canal UF	
5) PREVIOUS BLDGS ON PROPERTY no DATE	
SOURCE	
DESCRIPTIVE DATA	·
1) ARCHITECTURAL STYLE VIEW FROM southwest PHOT	O TAKEN October 1979
n/a	o man occord
2) PRESENT USE:	The state of the s
GF power canal	Tentan Minute
UF n/a	A THE RESIDENCE OF THE PARTY OF
3) NO OF STORIES n/a	
4) PROP SQ FT n/a	
5) PLAN _ n/a	1 2 2 2 2 2
6) ROOF n/a	
7) STRUCTURAL SYSTEM	
masonry	
8) OUTBUILDINGS	
guard gates and waste house	
9) MATERIALS:	
FOUNDATION	
n/a	
EACADE aphlor and rubble store	
FACADE ashlar and rubble stone	
TRIMn/a	

ADI	DRESS Parallel to JACKSON STREET		
VI	SUAL ASSESSMENT		
1)	CONDITION OF BUILDING FABRIC		good
2)	IF DETERIORATED, CAUSES		n/a
3)			intact with evolutionary alterations n/a
4)	SURROUNDING LAND USES		industrial, railroad, canal frontage
5)	INTEGRITY OF PROP'S HIST SETTING mc	oder	ately disrupted historic setting
6)	IMPORTANCE OF PROP TO HIST SETTING	int	egral to character

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

See Research Report, p. 5.

The Hamilton Canal flows from the Pawtucket Canal above Swamp Locks and through the penstocks of the Hamilton and Appleton Mills, falling thirteen feet into the lower level of the Pawtucket.

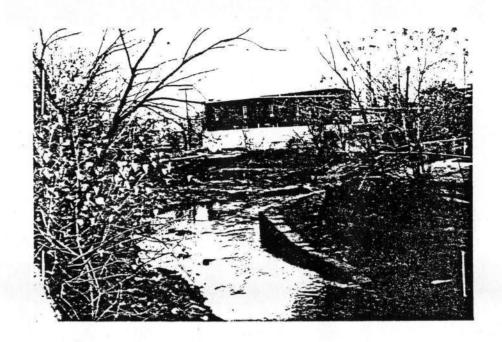
The canal is 1,936 feet long, ten feet deep, and varies in width from thirty-five feet to one hundred feet. At the eastern end of the canal is a wasteway, to return excess water to the Pawtucket Canal.

Source

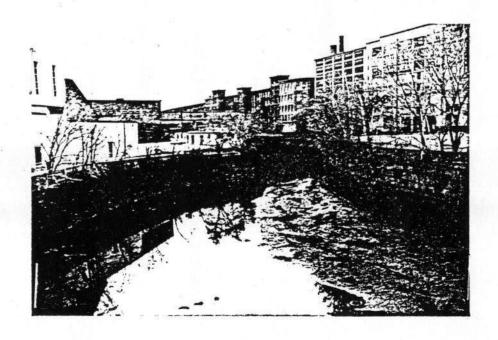
Lower Merrimack River... Inventory, p. 74.

ARCHEOLOGICAL COMMENT

Both of the major millyards originally served by the Hamilton Canal—the Appleton and the Hamilton—are extant, and their hydropower systems remain at least partially operational. For a brief span (ca. 1826-1835) the Hamilton Canal supplied a single mill power to another millyard—Thomas Hurd's on the Concord River, via a penstock that extended beneath Central Street from the eastern end of the Hamilton Canal. Remnants of that penstock may still exist below ground.



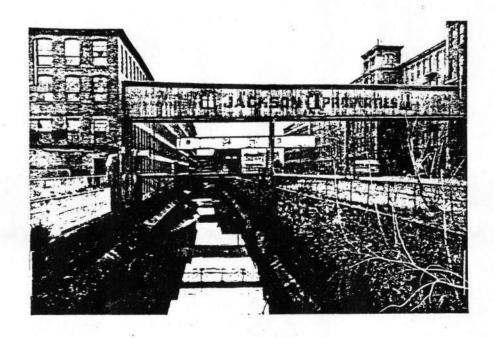
View from the south of the beginning of the Hamilton Canal above Swamp Locks. The canal flows from left to right in this view, which shows the canal nearly drained. Photo taken in October 1979.



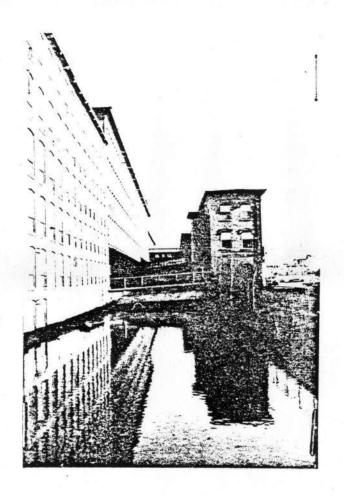
View from the west of the Hamilton Canal, looking toward Appleton "New Mill." Photo taken in October 1979.



View along the Hamilton Canal from the southwest. Photo taken in August 1979.

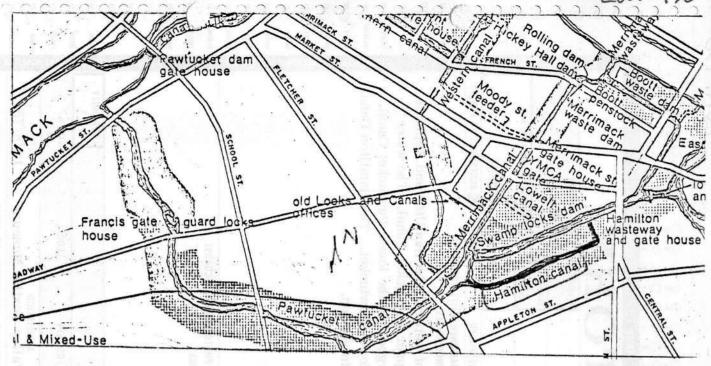


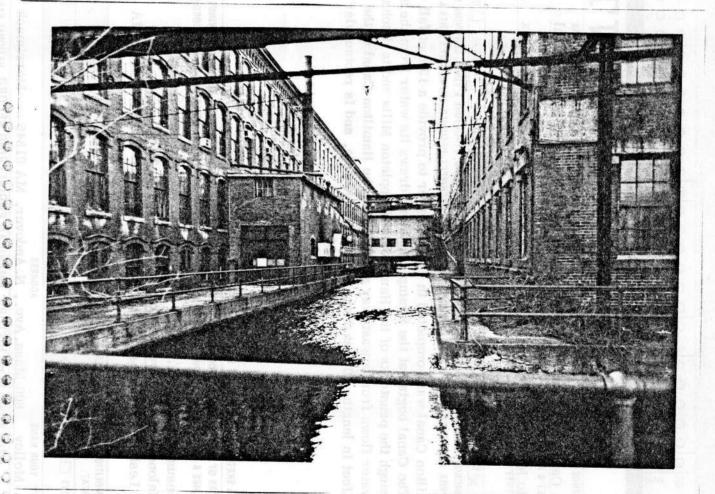
View along the Hamilton Canal from the southwest, showing the canal drained. Photo taken in October 1979.



View from the southwest along the Hamilton Canal, showing (left to right) Appleton Mill #1, Hamilton Mill #6, and the Hamilton Counting House. Photo taken in November 1979.

NR HABS STATE COUN'	LOCAL OTHER DOO FIN	TECH ARCH TAPES	OTHER © SLIDES © MIST © SURVEY ©	STEREO OS MOVIES OS ALO					0 0
EXISTING SURV	SHEET STREET STREET	DATA DWG	S PHOTOGRAPHS	MANAGEM WHAT SERVINGER	3 5 6 9 9	STATES	* 2 7 2 7	8 2 8 4 5 5 3	7
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		HA	LR	111	A TO L	1TO	RI		
1. NAME OF STE					. NATURE OF STRUCTI		. INDUSTRIAL CLASSIFICAT	TION	ATION
	con Canal			1826 City or town	Power Can		TATE 812		SIFIC
	el to Middles	ex Street		Lowell	Middles	6.7.43	Section 1997	MAP & UTM GRID REF.	CLAS
7. OWNER OF PR	ROPERTY		ADDRES	SS			Lowell		SUB
8. CONDITION:	EXCELLENT	Coop	□ FAID	DETERIORATI	га Пашие	- UNITABORED	19, 310210, 4		
			FAIR STRUCTURES : DIME	DETERIORATI	1 TO 10 TO 1	UNEXPOSED VIVING MACHINERY, FI		ACCESSIBLE TO PUBLIC	
					IGNER; IMPORTANT E		TIMOS AND		
The Ha	amilton Cana	l was comple	eted in 1826 i	n order to pro	ovide a 13 foot	fall of water	to the Hamilton	and Appleton	
CENTRAL CONTRACTOR			A CONTRACTOR OF THE PARTY OF TH			THE RESERVE AND ADDRESS OF THE PARTY OF THE	tucket Canal.		
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							wtucket. The I	iamilton Canal	e STR
1s 1,93	se feet in len	gtn, 10 leet	deep, 35 to 1	oo reet wide,	and is rectang	gular in section	n.		(SPEC
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/E INDUS									2
SNOW 10. PHOTOGRAPI	HS & SKETCH MAP (ON REVERSE SIDE.							EGIALIZ
11. RELATED SO	URCES OF INFORMA	TION: HISTORICAL F			SCRIPTS, REPORTS, DR NFORMATION); TAPE R	AWINGS, PHOTO GRAPH Ecordings.	IC RECORDS)		SPECIALIZED S
11. RELATED SO	URCES OF INFORMA (NAMES & ADDRESS	TION: HISTORICAL R ES OF ANYONE WITH	EYE-WITNESS ACCO				IC RECORDS)		SPECIALIZ
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U. S. O P. M. Mr. M. 12. DANGER OF NATURE OF 14. EXISTING SUI AND DATES: 15. INVENTORIES Peter I	URCES OF INFORMA (NAMES & ADDRESS Census of 18 Malone, Wa el Lesberg, DEMOLITION OR DA THREAT: RVEYS NHL D BY: YOUR NAME M. Molloy PLEASE RE	TION: HISTORICAL RES OF ANYONE WITH 80, Vol. XV ter Power in Manager, P	I EYE-WITNESS ACCOUNTY I Lowell, Mass roprietors of MO ADDRESS AVE., N. Ando	UNTS OR RELEVANT II ES (GPO, 1974 Locks and Ca HABS Ver, MA 0184 N ENGINEERING	I) anls, Lowell, STATE Merrim RECORD, NATION	COUNTY AFFILIATIO ack Valley Texical Park Service, was	LOCAL N Ktile Museum SHINGTON, DC 20240		BUILDING TECHNOLOGY (BLD TECH)





LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

Identification	
IDLCS: 40571	Structure Number: HAMILC
Structure Name 1: HAMILTON CAN Structure Name 2: Structure Name 3:	Section Lower Hamilton CANAL Later Management Information
ORGCODE: 1780 County: Regional	Office: NORTH ATLANTIC
Subunit ORGCODE: Name: Alpha Code: County:	MIDDLESEX State: MA
Number of UTM's: 0	Zone/Easting/Northing
Significance	C BUD stocktook sitema
NR Status: ENTERED - DOCUM Significance: NATIONAL	MENTED Date: 10/18/85
NHL: YES	Date: 12/22/77
FOUNDED IN 1825, HAMILTON MFG. CO. WAS FIRST MACHINERY DESIGNED BY KIRK BOOTT & SAM'L. BATFROM PAWTUCKET CANAL @ SWAMP LOCKS.	NEW CORP. SUBJECT TO NEW MILL POWER SYSTEM; TEXTILE ICHELDER. APPLETON MFG. CO. FOUNDED 1828. CANAL CUT
Historical Information-	VALUATION STORM STORM STORM STORMS STORMS STORMS
Period of Construction: HISTORIC	
Date: 1826- (BU) Designer: Date: 1828- (AL) Designer: Date: 1848- (AL) Designer: Date: - () Designer:	{ } Nat. Reg.: TageSlA9 CSI: BRIDGE
Functions, Uses, Materials, I	
Historic Functions CANAL UTILITY SERVICE STRUCTURE	Current Uses CANAL UTILITY SERVICE STRUCTURE
BuildingsMate	erialsStructures-
Foundation: Framing: Walls:	Sub-structure: STONE GRANITE
Roof: Other: Volume:	Super-structure: GRANITE CONCRETE STONE
	& THROUGH PENSTOCKS OF HAMILTON & APPLETON MILS; 13' WASTEWAY @ E END RETURNS EXCESS WATER TO PAWTUCKET DE.
Impact Level: MODERATE Impact Condition: GOOD	t Types: STRUCTURAL DETERIORATION INUNDATION (FLOODING)

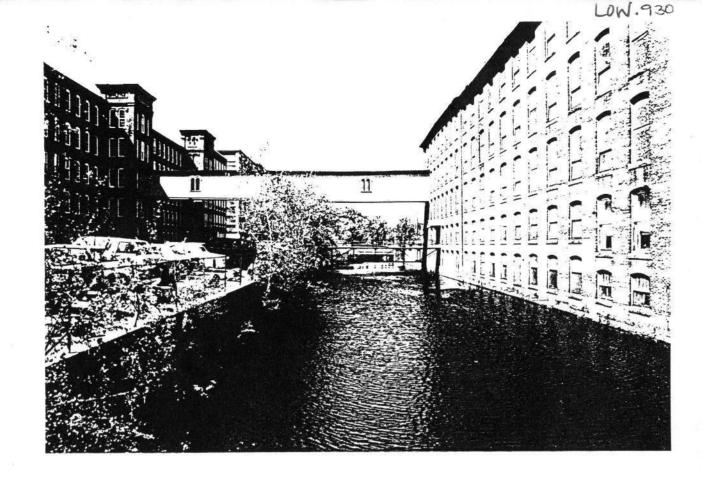
LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

OEP. WOJ

IDLCS Park Structure Name	Number
40571 LOWE HAMILTON CANAL	HAMILC
Management Information	TODOTTO O
NPS Legal Interest: NONE - PRIVATELY OWNED Federal Owner Life: Exp. Date: / Local Owner	
Management Category: MUST BE PRES. & MAINT Management Date: Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date:	10/16/87 04/03/96
Proposed Ultimate Treat: Doc: Date: Approved Ultimate Treat: PRESERVATION Doc: GMP Date:	08/00/81
Treatment Responsibilities Treatment Costs	
Interim Treatment: OTH Interim: \$0 Date Ultimate Treatment: OTH Ultimate: \$0 Date Routine Maintenance: OTH Level of Estimate: Cyclic Maintenance: OTH Estimator:	
Approved Ultimate Treatment Completed: YES Management Text LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS CANAL WALLS/FLOOR; NPS SHARES M RESPONSIBILITIES W/ STATE ALONG CANALWAY. Major Bibliographical References	AINT.
Nat. Reg.: 78003149 CSI: Nat. Cat: NO	
HABS: BRIDGES: DAMS: QTRS:	Datio: 1545 Date: — Tunctio
CLI CRBIB Other	
1. HRS 1. 010385 1. 400101 MALONE, CANALS 2. HS ASSESS 2. 400107 2. 010390 GMP 3. HSR 3. 3. 4. CLR 4. 5. 5. 400108	& IND.
Documentation Level: GOOD	
Date Entered/Updated: 07/20/94 Logger: JIG	

Date of Report: 04/04/95

page 2 of 2



Structure No. HAMILC IDLCS: 40571 HAMILTON CANAL

*

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.979

Historic Name: Lawrence Dam

Common Name: Lawrence Canal Waste Dam

Address: Western Canal

Western Canal Wasteway off Perkins St

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: c 1840

Architect(s):

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



The Massachusetts Historical Commission (MHC) has converted this paper record to digital format as part of ongoing projects to scan records of the Inventory of Historic Assets of the Commonwealth and National Register of Historic Places nominations for Massachusetts. Efforts are ongoing and not all inventory or National Register records related to this resource may be available in digital format at this time.

The MACRIS database and scanned files are highly dynamic; new information is added daily and both database records and related scanned files may be updated as new information is incorporated into MHC files. Users should note that there may be a considerable lag time between the receipt of new or updated records by MHC and the appearance of related information in MACRIS. Users should also note that not all source materials for the MACRIS database are made available as scanned images. Users may consult the records, files and maps available in MHC's public research area at its offices at the State Archives Building, 220 Morrissey Boulevard, Boston, open M-F, 9-5.

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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Thursday, November 7, 2019 at 9:51: AM

LOW. 979 LOWELL CULTURAL RESOURCES INVENTORY/BET LAND 121/3/80

IDENTIFICATION	WESTERN CANAL WASTEWAY	off DERVING STRE	O N	AP SHEET # 4
	Proprietors of Locks an		. 0	
2) HISTORIC NAME	Lawrence Dam		1	31/2
3) CURRENT NAME	same			
	canal structure	5) ZONING	CLASSIFIC	ATION A1
	current			
	TES OFLNHP Locks a			
HISTORICAL ABST	RACT			
	ATE ca. 1840			
	circumstantial: Lower	MerrimackInve	ntory, p.	76
	JILDER unknown			
	Proprietors of Locks an	nd Canals		
	F canal regulation	7/4	2	
	ON PROPERTY yes DATE	The second secon		
	Lower MerrimackInver			
n/a 2) PRESENT USE: GF _canal regul	And the second			
UFn/a		A COLUMN		
3) NO OF STORIES_	n/a	100		
4) PROP SQ FT n/a				
5) PLANn/a				
6) ROOFn/a	1.3		· · · · · ·	4
7) STRUCTURAL SYS: ashlar mason:				
8) OUTBUILDINGS none				1
9) MATERIALS:				
FOUNDATION		A STANFACT		
granite ashla	ir			
FACADE gran	The second secon			
TRIM cond				
(0) NOTABLE SURFACT	E & LANDSCAPE ELEMENTS	none		

ADD	SS WESTERN CANAL WASTEWAY off PERKINS STREET	_
VIS	AL ASSESSMENT	
1)	ONDITION OF BUILDING FABRIC gcod	
2)	F DETERIORATED, CAUSES t/a	
3)	NTEGRITY OF HISTORIC BLDG FABRIC: GF major & irreversible changes	
	UF_n/a	
4)	URROUNDING LAND USES industrial, railroad, canal frontage, river frontage	
5)	NTEGRITY OF PROP'S HIST SETTINGmoderately disrupted historic setting	_
6)	MPORTANCE OF PROP TO HIST SETTING compatible with character	

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

The first dam at this location was built in 1831, during the construction of the Western and Lawrence Canals. The present stepped dam probably is a result of reconstruction in the 1840s, when the Swamp Locks, Lower Locks, and Hickey Hall dams were all rebuilt in a stepped form.

The function of the dam is to maintain the level of the lower portion of the Western Canal, in order to feed the Lawrence Canal at an adequate level. Three concrete siphon spillways were added to the dam in 1948-49. At the same time a house atop the dam was extended the full length of the crest, to shelter the siphons. That building burned in 1965.

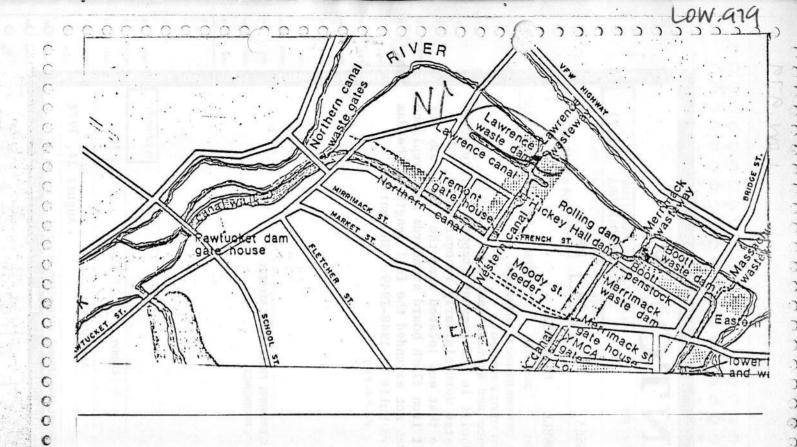
Source

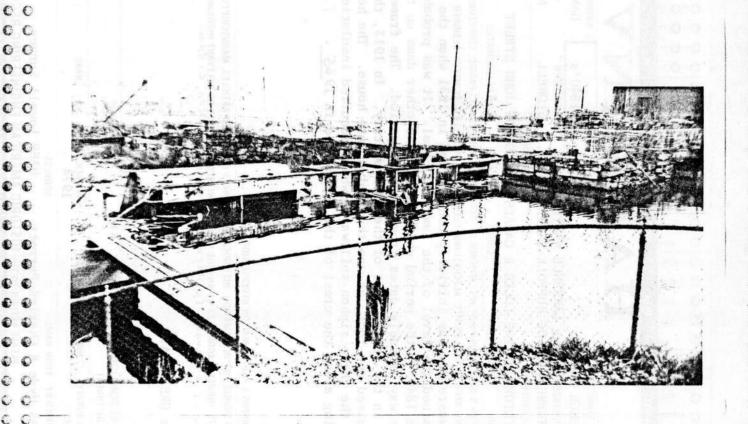
Lower Merrimack River Valley: Inventory, MVTM and HAER, p. 76.

ARCHEOLOGICAL COMMENT

Not applicable.

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
EXISTING SURVEYS DATA DWGS PHOTOGRAPHS	STATES
HAER INVER	NTORY
1. NAME OF STRUCTURE 2. DATE 3. NATURE OF STRUC	
LAWRENCE DAM c.1840's DAM	SPEC STRUC:HYDRA (81.2)
5. LOCATION: STREET & NUMBER LAWRENCE WASTEWAY CITY OR TOWN COUNTY	STATE 6. USGS 7 1/2 QUAD & UTM GRID REF.
AT INTERSECTION OF SUFFOLK & PERKINS ST. LOWELL MIDDLESE 7. OWNER OF PROPERTY ADDRESS	MA LOWELL 19.3103094724466
PROPRIETORS OF THE LOCKS & CANALS FOOT OF JOHN STREET LOWE	
8. CONDITION: EXCELLENT GOOD FAIR *DETERIORATED RUINS 9. DESCRIPTION & BACKGROUND HISTORY: NUMBER OF STRUCTURES; DIMENSIONS; FABRIC; STRUCTURE & FORM; SU	UNEXPOSED ALTERED X ACCESSIBLE TO PUBLIC
This waste dam was initially constructed in 1831 when the Lawrence maintained the level of the Lawrence Canal. It was probably rebu in the 1840's, the period when most of the other dams on the syst sluice way probably dates from the same period. The frame house built in the latter part of the 19th century. In 1913, the cast and raised one foot, as was the sluice gate house. The house was until the three siphon spillways, which required insulation, were building along the crest of the dam burned in 1965.	tilt in its present stepped configuration em were similarly reconstructed. The that was located over the sluice way was iron flash board standards were replaced not extended the full length of the dam built in 1948-1949. The entire
10 PHOTOCOADUS & SKETCH MAD ON DENEDOS SIDE	
10. PHOTOGRAPHS & SKETCH MAP ON REVERSE SIDE. 11. RELATED SOURCES OF INFORMATION: HISTORICAL REFERENCES (PUBLISHED ARTICLES MANUSCRIPTS REPORTS D	IRAWINGS PHOTO CRAPHIC DECORDS)
10. PHOTOGRAPHS & SKETCH MAP ON REVERSE SIDE. 11. RELATED SOURCES OF INFORMATION: HISTORICAL REFERENCES (PUBLISHED ARTICLES, MANUSCRIPTS, REPORTS, D CONTACTS: (NAMES & ADDRESSES OF ANYONE WITH EYE-WITNESS ACCOUNTS OR RELEVANT INFORMATION); TAPE LOCKS & CANACL CONTACTS CONTACTS CONTACTS CONTACTS SEE GREAT GATE. See GREAT GATE.	
11. RELATED SOURCES OF INFORMATION: HISTORICAL REFERENCES (PUBLISHED ARTICLES, MANUSCRIPTS, REPORTS, D CONTACTS: (NAMES & ADDRESSES OF ANYONE WITH EYE-WITNESS ACCOUNTS OR RELEVANT INFORMATION); TAPE LOCKS & CANACS CORRESS, LOWKEL & BATCAR CEBRARY	
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11. RELATED SOURCES OF INFORMATION: HISTORICAL REFERENCES (PUBLISHED ARTICLES, MANUSCRIPTS, REPORTS, D CONTACTS: (NAMES & ADDRESSES OF ANYONE WITH EYE-WITNESS ACCOUNTS OR RELEVANT INFORMATION); TAPE LOCKS LONDON CORRESPONDENCE OF REPORTS, LONDON CORRESPOND See GREAT GATE. 12. DANGER OF DEMOLITION OR DAMAGE YES X NO NATURE OF THREAT: 14. EXISTING SURVEYS NHL NR X HAER HABS STATE AND DATES: 15. INVENTORIED BY: YOUR NAME ADDRESS	RECORDINGS. 13. PRIORITY COUNTY DOCAL OTHER AFFILIATION DATE
11. RELATED SOURCES OF INFORMATION: HISTORICAL REFERENCES (PUBLISHED ARTICLES, MANUSCRIPTS, REPORTS, D CONTACTS: (NAMES & ADDRESSES OF ANYONE WITH EYE-WITNESS ACCOUNTS OR RELEVANT INFORMATION); TAPE LOCKS & CORRESS CORRESS, LOWALL & BAICAR CIBRORY See GREAT GATE. 12. DANGER OF DEMOLITION OR DAMAGE YES X NO NATURE OF THREAT: 14. EXISTING SURVEYS NHL NR X HAER HABS STATE AND DATES: 1974 15. INVENTORIED BY: YOUR NAME ADDRESS Charles Hyde & Charles Parrott HAER Lowell Survey	COUNTY LOCAL OTHER AFFILIATION DATE August 24, 1974
11. RELATED SOURCES OF INFORMATION: HISTORICAL REFERENCES (PUBLISHED ARTICLES, MANUSCRIPTS, REPORTS, D CONTACTS: (NAMES & ADDRESSES OF ANYONE WITH EYE-WITNESS ACCOUNTS OR RELEVANT INFORMATION); TAPE LOCKS & CORRESS CORRESS, LOWALL & BAILAR CIBRARY See GREAT GATE. 12. DANGER OF DEMOLITION OR DAMAGE YES X NO NATURE OF THREAT: 14. EXISTING SURVEYS NHL NR X HAER HABS STATE AND DATES: 1974 15. INVENTORIED BY: YOUR NAME ADDRESS Charles Hyde & Charles Parrott HAER Lowell Survey PLEASE RETURN TO THE HISTORIC AMERICAN ENGINEERING RECORD, NATIO	COUNTY LOCAL OTHER AFFILIATION DATE August 24, 1974





LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Identification-Structure Number: LAW.DAM IDLCS: 40605 Structure Name 1: LAWRENCE DAM Structure Name 2: LAWRENCE CANAL WASTE DAM Structure Name 3: Park Alpha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK County: MIDDLESEX ORGCODE: 1780 State: MA Regional Office: NORTH ATLANTIC Subunit ORGCODE: Name: County: MIDDLESEX State: MA Alpha Code: Zone/Easting/Northing Number of UTM's: 0 -Significance-NR Status: ENTERED - DOCUMENTED Date: 10/18/85 Significance: NATIONAL NHL: YES Date: 12/22/77 Significance CONSTR'D. TO MAINTAIN LEVEL OF LOWER PORTION OF WESTERN CANAL, IN ORDER TO FEED LAWRENCE CANAL AT AN ADEQUATE LEVEL. ENSURED THAT LAWRENCE MILLS REC'D. WATER EVEN WHEN TREMONT & SUFFOLK SLUICE GATES CLOSED. EXTANT DAM PROB. AN 1840s RECONSTR'N. -Historical Information-Period of Construction: HISTORIC Date: 1840-1843 (BU) Designer: Date: 1948-1949 (AL) Designer: (AL) Designer: Date: 1965-) Designer: Date: -Functions, Uses, Materials, Impacts, and Condition-Historic Functions Current Uses DAM DAM DAM - CONCRETE (GRAVITY) DAM - CONCRETE (GRAVITY) UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE -Buildings-----Materials-----Structures--Sub-structure: CONCRETE Foundation: Framing: GRANITE Walls: Super-structure: CONCRETE Roof: GRANITE Other: Volume: Description 3 CONCR. SIPHON SPILLWAYS (1948-49) OVER (CA. 1841?) GRANITE FOUND'N.; (FMR. HOUSE ATOP DAM BURNED 1965). ASHLAR GRANITE FACADE. 12 ACRE FT. MAX. CAP. APPROX. 9' DEEP, 90' LONG. REMNANTS OF WOOD SUPERSTRUCTURE. Impact Level: MODERATE Impact Types: INUNDATION (FLOODING) STRUCTURAL DETERIORATION Condition: POOR

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name

Number

40605 LOWE LAWRENCE DAM

LAW. DAM

-Management Information

NPS Legal Interest: NONE - PRIVATELY OWNED Life: Exp. Date: / /

Federal Owner:

Local Owner: BH

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96

Proposed Ultimate Treat:

Doc:

Date:

Approved Ultimate Treat: PRESERVATION Doc: GMP

Date: 08/00/81

Treatment Responsibilities

Treatment Costs

Interim Treatment: OTH Interim:
Ultimate Treatment: OTH Ultimate:
Routine Maintenance: OTH Level of Estimate:
Cyclic Maintenance: OTH Estimator:

Date:

\$0 Date:

Approved Ultimate Treatment Completed: NO TO PRINCE AN LEVEL OF LIVES POSTEON OF VESTERN CARD. IN COOK

LOWELL LOCKS & CANALS HISTORIC DISTRICT. NPS DAM #148. BOOTT HYDRO MAINTAINS CANAL WALLS & FLOOR: NPS SHARES GROUNDS MAINT. RESPONSIBILITIES W/ STATE.

-Major Bibliographical References-

Nat. Reg.: 78003149

CSI:

Nat. Cat: NO

HABS:

HAER: MA-6-A

BRIDGES:

DAMS: MA

QTRS:

CLI

CRBIB

Other

1.

HRS 1. 010385 HS ASSESS 2. 400107 HSR 3.

1. 400101 MALONE, CANALS & IND.

2. 3.

2. 010390 GMP

4.

3.

CLR 4. 5. 400108

Documentation Level: FAIR

Date Entered/Updated: 07/20/94

Logger: JIG

Date of Report: 04/04/95

page 2 of 2

S 30 L STATE 1 OF 2



Structure No. LAW.DAM IDLCS: 40605

LAWRENCE DAM



Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.935

Historic Name: Northern Canal - River Wall Reach

Common Name:

Address: Northern Canal

School to French and Suffolk Sts

City/Town: Lowell

Village/Neighborhood:

Local No:

Year Constructed: c 1846

Architect(s): Baldwin, James F.; Francis, James B.

Architectural Style(s):

Use(s): Other Industrial; Other Water Related

Significance: Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



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Massachusetts Historical Commission
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LOWELL CULTURAL RESOURCES INVENTORY

	LOWELL CULTURAL RESOURCE	(C) N-33-9/3, 3
IDENTIFICATION	FRENCH and SUFFOLK STREETS	MAP SHEET #3, 5, 7
1) CURRENT OWNER _	Proprietors of Locks an	d Canals OWNER OCCUPIED yes
2) HISTORIC NAME	Northern Canal	1BE Up - 12/13/83
3) CURRENT NAME		
4) PROPERTY TYPE	canal	5) ZONING CLASSIFICATION M3, B1
	current	
	ES OF LHPD, LNHP,	
HISTORICAL ABST 1) CONSTRUCTION DA SOURCE	Control of the Contro	eport
SCOTT CONTRACTOR CONTRACTOR	TLDER James B. Fr	
3) HISTORIC OWNER	Proprietors	of Locks and Canals
	F power and navigational can	
5) PREVIOUS BLDGS SOURCE DESCRIPTIVE DAT		
1) ARCHITECTURAL S		uthwest PHOTO TAKEN October 1979
Gate House, Wast 9) MATERIALS: FOUNDATION n/a	n/a n/a n/a n/a n/a EM House e Gate	
GFpower_canal UFn/a 3) NO OF STORIES 4) PROP SQ FT 5) PLAN 6) ROOF 7) STRUCTURAL SYST masonry 8) OUTBUILDINGS Gate House, Wast 9) MATERIALS: FOUNDATION n/a	n/a n/a n/a n/a n/a EM House e Gate ar and rubble stone	retaining wall

ADI	RESS	From	MERRIMACK	RIVER at	SCHOOL	STREET, t	o FRENCH	and	SUFFOLK	STREETS	
VI	SUAL	ASSES	SMENT						-		
1)	CONDI	TION O	F BUILDING	FABRIC _		good				*	
2)	IF DE	TERIOR	ATED, CAUS	SES		n/a					
3)	INTEG	RITY O	F HISTORIC	BLDG FAI	BRIC: GF	inta	ct origi	nal f	abric		S Property Control
				¥	ŲE	n/a					
4)	SURRO	UNDING	LAND USES	commerci:	al, ind	lustrial,	resident	canal	frontag recreat	re river	frontage <u>fituti</u> ona
51	TNTEC	ס עדואב	F PROP'S F	ידיא ידיד	ING mod	erately d	isrunted	hist	oric set	tino	

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

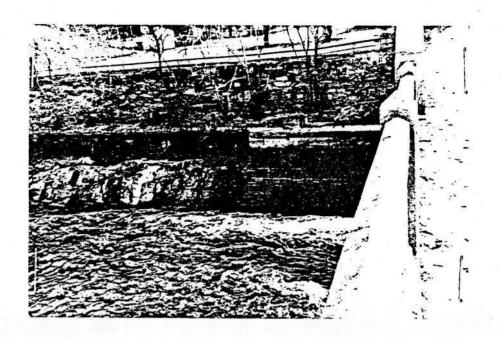
6) IMPORTANCE OF PROP TO HIST SETTING focal point in area

See Research Report, pages 13-16.

The Northern Canal is 4,373 feet long, about 100 feet wide, and fifteen to twenty-one feet deep. It was constructed in 1846-7, under the direction of James B. Francis. Its major role in the Lowell canal system is described in the preceding Research Report.

ARCHEOLOGICAL COMMENT

Not applicable.

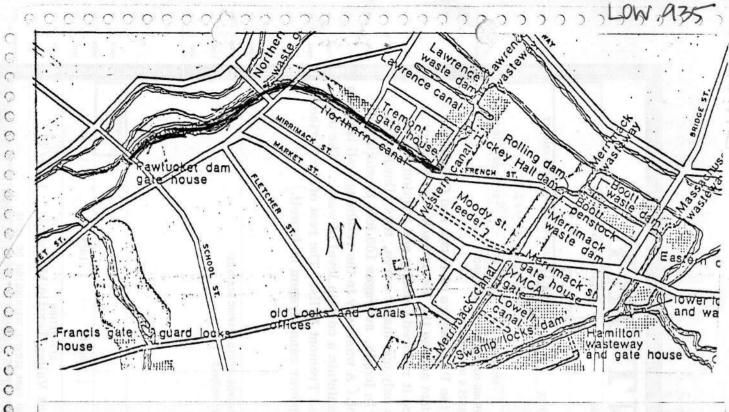


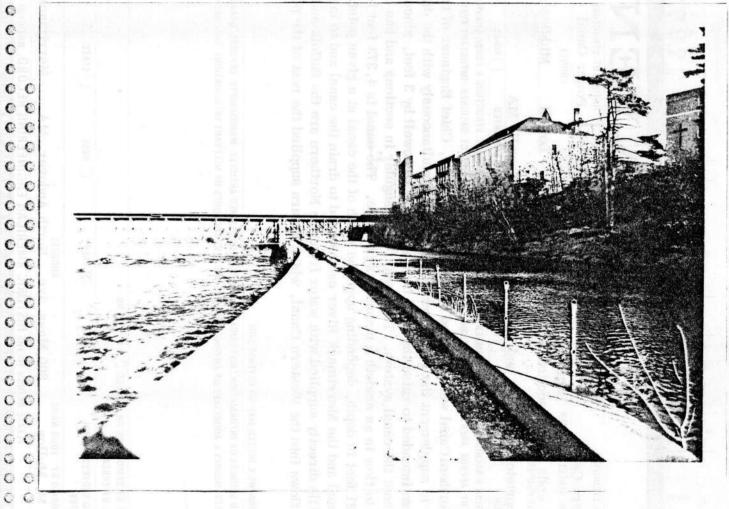
Detail of the Northern Canal at School Street, showing the combination of granite ashlar, coursed rubble stone, and cut bedrock that constitute its walls. Photo taken in October 1979.



View from the southeast of the Northern Canal opposite the Suffolk millyard. Note the breadth of this canal. At right are Suffolk's penstock openings. Photo taken in October 1979.

1. NAME OF STRUCTURE							
			2. DATE 1847	3. NATURE OF STRUCTU	RE 4	INDUSTRIAL CLASSIFIC	
Northern Canal LOCATION: STREET & NUMBER	R Beging above I	Powtucket		Power Canal	3	812	
Dam, ends at inter			lk Sts. Low		sex	MA 6. USGS QUAL	D MAP & UTM GRID REF.
Proprietors of I						9,369000.4	
CONDITION: XEXCELLE		FAIR	DETERIOR		UNEXPOSED		ACCESSIBLE TO PUBLI
DESCRIPTION & BACKGROUND EQUIPMENT; APPROX. AREA O						TTINGS AND	
The Northern Canal						rs of Locks an	nd Canals. as a
feeder to supplemen				2000			The second secon
was also intended to							
		1	tangular in	sections and has	only one mai	or curve. thus	s allowing the
water to flow in as	smooth a manne	er as possib	ole. The ear	al is 4,373 feet	in length, ave	rages 100 fee	et in width and i
water to flow in as 15 to 21 feet in dep	smooth a manne th, depending up	er as possiboon the widt	ole. The car h of the cana	nal is 4,373 feet al at a given poin	in length, avent. (A wastewa	rages 100 fee y in the retai	et in width and is ning wall betwee
water to flow in as 15 to 21 feet in dep the Canal and the M two mills directly s	smooth a manne th, depending up Merrimack River supplied with wat	er as possib on the widt can be use ter from the	ole. The ear h of the can ed to drain the Northern a	hal is 4,373 feet al at a given poin ne canal and to r are the Suffolk ar	in length, avent. (A wastewa maintain a cert and Tremont Mi	rages 100 fee y in the retai ain level of w lls. The res	et in width and is ning wall between vater. The only at of the Norther
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water to flow in as 15 to 21 feet in depote the Canal and the Motor mills directly so water flows into the O. PHOTOGRAPHS & SKETCH MAIL RELATED SOURCES OF INFOR	smooth a manner of the depending up Merrimack River supplied with water Western Canal, ap on reverse side.	er as possible on the widter can be used ter from the which in the certain terms of the certa	ole. The ear h of the can ed to drain the Northern a urn supplied	nal is 4,373 feet al at a given poin ne canal and to n are the Suffolk an the rest of the	in length, avent. (A wastewanaintain a cert and Tremont Mi power canal sy	rages 100 fee y in the retai ain level of w lls. The res ystem at Lowe	et in width and is ning wall between vater. The only at of the Norther
water to flow in as 15 to 21 feet in dep the Canal and the M two mills directly s water flows into the D. PHOTOGRAPHS & SKETCH MA I. RELATED SOURCES OF INFOR CONTACTS: (NAMES & ADDRE	smooth a manne oth, depending up Merrimack River supplied with wat e Western Canal, ap on reverse side. RMATION: HISTORICAL REF ESSES OF ANYONE WITH E	er as possible on the widter can be used ter from the which in the which in the FERENCES (PUBLIS YE-WITNESS ACCO	ole. The ear h of the can ed to drain the Northern a urn supplied	nal is 4,373 feet al at a given poin ne canal and to n are the Suffolk an the rest of the	in length, avent. (A wastewanaintain a cert and Tremont Mi power canal sy	rages 100 fee y in the retai ain level of w lls. The res ystem at Lowe	et in width and is ning wall between vater. The only et of the Norther ell.)
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LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

LOW ALTS

Identification
IDLCS: 40580 Structure Number: NOR.RWR
Structure Name 1: NORTHERN CANAL - RIVER WALL REACH Structure Name 2: NORTHERN CANAL Structure Name 3:
Park Alpha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK ORGCODE: 1780 County: MIDDLESEX State: MA Regional Office: NORTH ATLANTIC Subunit ORGCODE: Name:
Alpha Code: County: MIDDLESEX State: MA
Number of UTM's: 0 Zone/Easting/Northing
Treatment Responsibilities - Treatment Costs
Significance
NR Status: ENTERED - DOCUMENTED Date: 10/18/85 Significance: NATIONAL
NHL: YES Date: 12/22/77 Significance
CONSTR'D. TO FULFILL NEED FOR ADD'L. WATERPOWER WITH WHICH TO RUN THE NUMEROUS LOWELL MILLS; THE LAST POWER CANAL. INTENDED TO RAISE TOTAL HEAD 3'. CREATED ABILITY TO REVERSE DIRECTION OF WESTERN CANAL; RAPIDLY MOVING WATER SOLVED ICING PROBLEMS.
Historical Information-
Period of Construction: HISTORIC
Date: 1846-1847 (BU) Designer: BALDWIN, JAS. F. & JAS. B. FRANCIS (E) Date: 1854- (AL) Designer: () Date: - () Designer: () Date: - () Designer: ()
Functions, Uses, Materials, Impacts, and Condition
Historic Functions Current Uses CANAL CANAL UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE
Buildings—Materials—Structures—_
Foundation: Sub-structure: GRANITE STONE Walls:
Roof: Super-structure: GRANITE Other: STONE Volume: Description
BEGINS @ PAWTUCKET DAM, ADJ. TO HEAD OF PAWTUCKET FALLS. TOTAL NORTHERN CANAL 4373' LONG, 15'-21' DEEP, 90'-100' WIDE. W PORTION SITS ON MERRIMACK RIVER BED, RETAINED BY GREAT RIVER WALL (IDLCS# 40602); S BANK TYPICALLY SLOPED.
Impact Level: MODERATE Impact Types: STRUCTURAL DETERIORATION EROSION
Condition: GOOD INUNDATION (FLOODING)

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

Park Structure Name IDLCS Number NORTHERN CANAL - RIVER WALL REACH 40580 LOWE NOR.RWR -Management Information----NPS Legal Interest: NONE - PRIVATELY OWNED Life: Exp. Date: / / Federal Owner: AM Lajana Life: Local Owner: BH Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96 Proposed Ultimate Treat: Doc: Date: Approved Ultimate Treat: PRESERVATION Doc: GMP Date: 08/00/81 Treatment Responsibilities Treatment Costs Interim Treatment: OTH Interim:
Ultimate Treatment: OTH Ultimate:
Routine Maintenance: OTH Level of Estimate: \$0 Date: \$0 Date: Cyclic Maintenance: OTH Estimator: Approved Ultimate Treatment Completed: YES

-Major Bibliographical References-

RESPONSIBILITIES W/ STATE ALONG CANALWAY.

Nat. Reg.: 78003149 CSI: Nat. Cat: No

BRIDGES: HABS: DAMS:

HAER: MA-8 Punctions, Uses, Materials:

CLI CRBIB Other

1. 400101 MALONE, CANALS & IND.

LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS CANAL WALLS/FLOOR: NPS SHARES MAINT.

2. 2. 010390 GMP

HRS 1. 010385 HS ASSESS 2. 400107 HSR 3. 010625 3. 3.

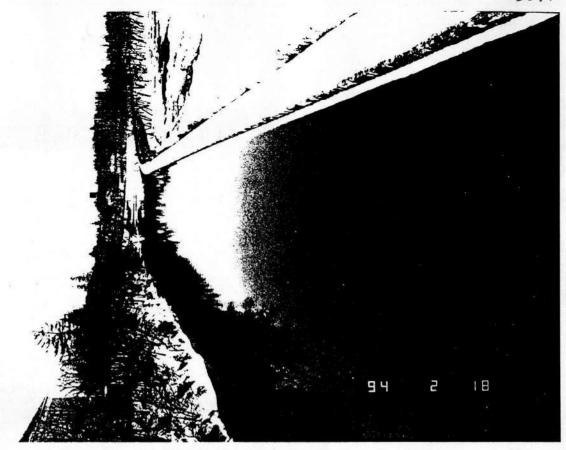
CLR 4. 5. 400108 4. 4.

Documentation Level: GOOD

Date Entered/Updated: 07/20/94 Logger: JIG

Date of Report: 04/04/95

te' le apaq



Structure No. NOR.RWR

IDLCS: 40580

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NORTHERN CANAL - RIVER WALL REACH

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.981

Historic Name: Northern Canal Waste Gates and Gate House

Common Name: High Bridge Gate House

Address: Northern Canal

near Moody Street Bridge

City/Town: Lowell

Village/Neighborhood:

Local No:

Year Constructed: 1847

Architect(s):

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Archaeology, Historic; Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic

Designation(s): Landmark (12/22/1977); Nat'l Register District (06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



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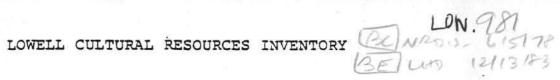
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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Friday, October 29, 2021 at 12:12 PM



IDENTIFICATION NORTHERN CANAL, near MOODY STREET BRIDGE	MAP SHEET #3
1) CURRENT OWNER Proprietors of Locks and Canals	OWNER OCCUPIED yes
[3	J NHL-12/22/7:
2) HISTORIC NAME Northern Canal Waste Gates and Gate House	Nrang 8/13/16
3) CURRENT NAME same	11 11 129
4) PROPERTY TYPE canal structure 5) ZONING CLASS	SIFICATION B1
6) TAXES: PAYMENTS current STATUS clear	
7) WITHIN BOUNDARIES OF LNHP, LHPD, Locks and Canals	Hd
*	
HISTORICAL ABSTRACT	
1) CONSTRUCTION DATE 1847, 1872	
SOURCE documented: Lower Merrimack RiverInve	ntory, page 79
2) ARCHITECT OR BUILDER unknown	
3) HISTORIC OWNER Proprietors of Locks and Canals	
4) ORIGINAL USE: GF canal regulation UF n/a	
5) PREVIOUS BLDGS ON PROPERTY no DATE	
SOURCE	<u> </u>
	9 9 =
DESCRIPTIVE DATA	
1) ARCHITECTURAL STYLE VIEW FROM northwest PHOTO	TAKEN December 1979
utilitarian	
2) PRESENT USE:	
GF canal regulation	
UF n/a	
3) NO OF STORIES 1	34
4) PROP SQ FT	
5) PLAN rectangular	1
6) ROOF shed	
7) STRUCTURAL SYSTEM	
wood frame	
8) OUTBUILDINGS	
none	
9) MATERIALS:	
FOUNDATION	
granite ashlar	
FACADE all sides: wood clapboard	
TRIMnone	
10) NOTABLE SURFACE & LANDSCAPE ELEMENTS none	

ΛT	SUAL ASSESSMENT	
1)	CONDITION OF BUILDING FABRIC	needs minor repair
2)	IF DETERIORATED, CAUSES	lack of maintenance
3)	INTEGRITY OF HISTORIC BLDG FABRIC: GF_	intact original fabric
	UF_	n/a
4)	SURROUNDING LAND USES residential,	institutional, canal frontage, river frontage
5)	INTEGRITY OF PROP'S HIST SETTING	moderately disrupted historic setting
61	TMPOPTANCE OF PROP TO HIST SETTING	compatible with character

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

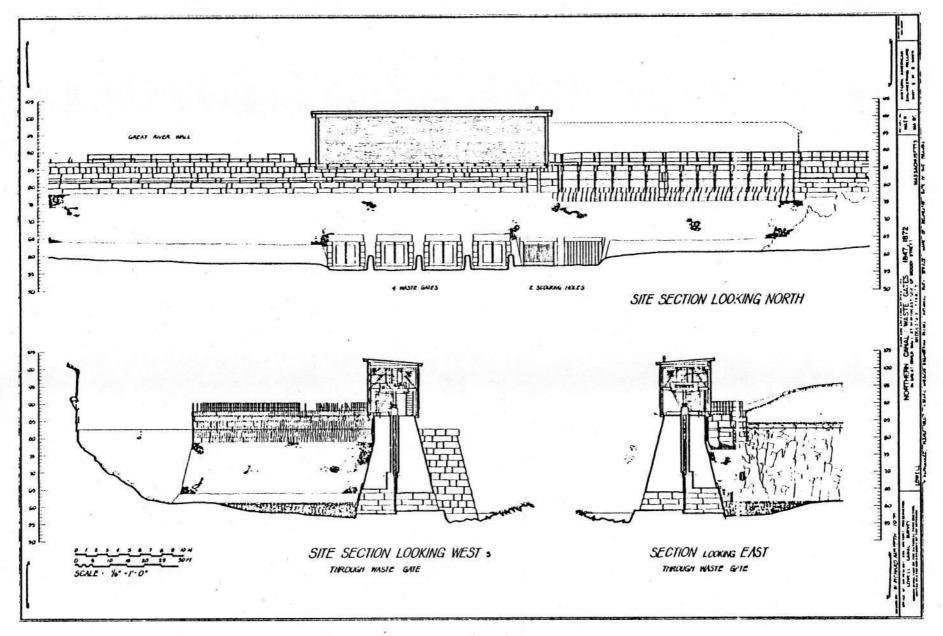
These canal works date from 1847 and were part of the Great River Wall project. Originally included on this site were four waste gates and their manually powered operating machinery. In 1872 a major modification occurred when "one of the scouring holes was converted into a wheelpit where a turbine was installed to power mechanical gate operating equipment." At the same time sheltering structures were built over both the waste gates and the waste weirs. Only the waste gate house still survives.

Sources

Lower Merrimack River... Inventory, HAER and MVTM, page 79.

ARCHEOLOGICAL COMMENT

Not applicable.

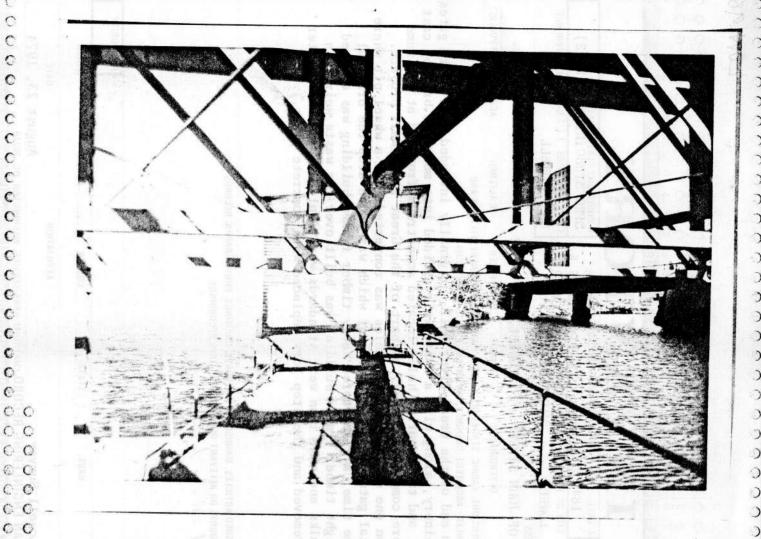


"Northern Canal Waste Gates," drawn for HAER in 1975.



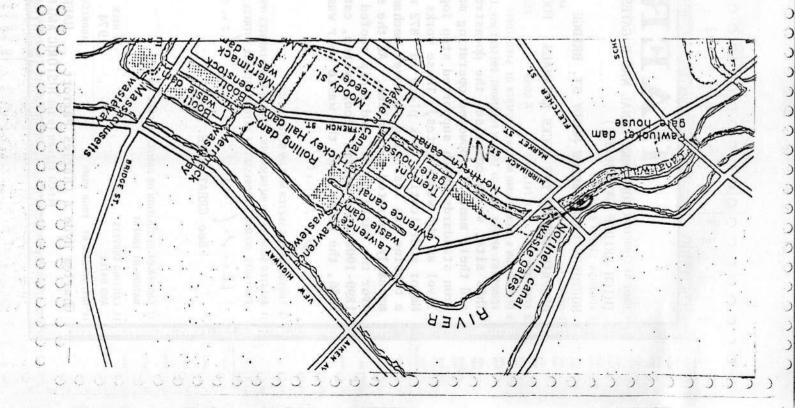
View of the Northern Canal Waste Gate House, from the east. Photo taken in December 1979.

EXISTING SURVEYS PATA	DME		THE RESIDENCE AND PERSONS ASSESSED AND PARTY AND PERSONS ASSESSED AND PARTY		Chiral Commence of the		THE REAL PROPERTY.	THE RESERVE AND PERSONS ASSESSED.	and And property of the Person	1000	
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LOCATION: STREET & NUMBER NORTHERN CANAL BELOW N	MOODY ST. B	RIDGE	CITY OR TOWN LOWELL	COUNT	Y WASTE W	EIR	STATE MA	6. USGS 7		LUTM GRIE	D REF.
OWNER OF PROPERTY PROPRIETORS OF THE LOC		ADDR	ess OF JOHN STI	REET 1	LOWELL, MA	. 01852	, 633	19.309	5044724	530	
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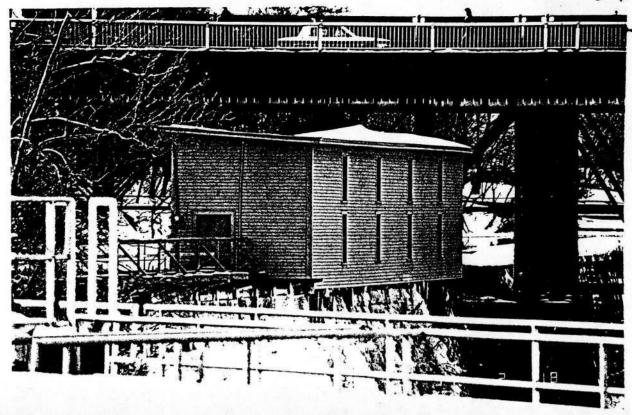
LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Tdentification-Structure Number: NC.WGH IDLCS: 40595 Structure Name 1: NORTHERN CANAL WASTE GATES GATE HOUSE Structure Name 2: NORTHERN CANAL WASTEWAY GATE HOUSE Structure Name 3: HIGH BRIDGE GATE HOUSE Park Alpha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK County: MIDDLESEX State Regional Office: NORTH ATLANTIC Subunit ORGCODE: Name: County: MIDDLESEX State: MA Alpha Code: Number of UTM's: Zone/Easting/Northing -Significance-NR Status: ENTERED - DOCUMENTED Significance: NATIONAL NHL: YES Date: 10/18/85 Date: 12/22/77 Significance CONSTR'D. AS PART OF GREAT RIVER WALL PROJ.; 4 WASTE GATES & MAN.-POWERED OPERATING MACHINERY. IN 1872, ONE "SCOURING HOLE" CONV. INTO WHEELPIT FOR TURBINE TO OPERATE MECH'L. GATE EQUIP'T.; SHELTERS ALSO BUILT OVER WASTE GATES (AND WEIRS). -Historical Information-Period of Construction: HISTORIC Date: 1847-(BU) Designer: Date: 1872-(AL) Designer: Date: 1991-1993 (RH) Designer:NPS Date:) Designer: -Functions, Uses, Materials, Impacts, and Condition-Historic Functions Current Uses UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE DAM DAM -Buildings-----Materials-----Structures-Sub-structure: GRANITE Foundation: GRANITE Framing: WOOD Walls: WOOD Super-structure: GRANITE Roof: SYNTHETICS Other: STEEL Volume: 20,001 - 2,000,000 CUBIC FT Description 2-STORY RECT. GATE HOUSE W/ SLIGHTLY-PITCHED (MEMBRANE) ROOF & CLAPBD. SIDING W/ CORNER BDS. SITS PRECARIOUSLY ATOP GREAT RIVER WALL (LCS #40602); CANAL & RIVER SIDES CANTILEVERED. 4 WINDOW BAYS @ RIVER SIDE; WINDOWS VARY: 4/4, 4/1, 1/1. Impact Level: MODERATE Impact Types: INUNDATION (FLOODING) WEATHER Condition: GOOD STRUCTURAL DETERIORATION

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS :	Park S	tructure	Name					Number
40595	LOWE N	ORTHERN (CANAL W	ASTE GAT	ES GATE H	OUSE		NC.WGH
Mana	gement	Informat	ion	MATEAN I	AMERICA CAMA	DROW : S	amil sal	deasold.
	-			CLT GOVEN				
Mrs Leg	al Ince	rest: NOI Life:	NE - LO	xp. Date	RNMENT OW : / /	NED Fede	eral Owne ocal Owne	
Managen Managem	ment Car ent Agr	tegory: 1 eement: 1	MUST BE	PRES. &	MAINT NDERSTAN A	Manageme gwat. Ex	ent Date:	10/16/87 04/03/96
Proposed Approved	d Ultima d Ultima	ate Treat ate Treat	PRES	ERVATION	Doc: G	MP	Date:	08/00/80
Treati	ment Res	sponsibil	lities		Treatme	nt Costs	į.	
Rout	imate Ti ine Main	reatment:	OTH Le	evel of 1	Interim: Ultimate: Estimate: stimator:	STORY MALE	\$0 Dat \$0 Dat	
	App	proved Ul	Ltimate	Treatmen	nt Comple	ted: YES		
fanageme	ent Text	T STAD LUTIO						12H25
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Date of Report: 04/05/95



Structure No. NC.WGH

IDLCS: 40595

NORTHERN CANAL WASTE GATES GATE HOUSE

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.990

Historic Name: Hamilton Canal Guard Gates

Common Name: Hamilton Canal Sectional Gates

Address: Hamilton Canal

Hamilton Canal off Jackson St, near Revere St

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: 1847

Architect(s):

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Archaeology, Historic; Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Friday, October 29, 2021 at 12:34 PM

					LOW.990
		LOWELL	CULTURAL RESOURC	ES INVENT	ORY (BC) MEDIS - 6/5/7
TD	ENMIRICAMION		CANAL off JACKSON	STREET.	BE U+0-12/13
	ENTIFICATION -				MAP SHEET # 11
1)	CURRENT OWNER _	Propriet	ors of Locks and C	anals	
	TANDARDA OF LINES - D	Visco Steeley			10 NH2-12/22/7
			Canal Guard Gates		NADI - 8/13/7
	CURRENT NAME				
					NG CLASSIFICATION A1
					clear
7)	WITHIN BOUNDARI	ES OF	LNHP Locks	and Canals H	AD LHPD
HI	STORICAL ABST	RACT			
1)	CONSTRUCTION DA	TE	1847/1853		
	SOURCE	document	ted: Lower Merrima	ckInvento	ory, p. 74
			unknown	2	2
3)	HISTORIC OWNER	Propi	rietors of Locks an	d Canals	
4)	ORIGINAL USE: G	F canal	l regulation	UF	n/a
			RTY yes DATE 1		
	SOURCE docume	nted: Lo	ower MerrimackIn	ventory	
	-			19	
DE	SCRIPTIVE DAT	а г			
			VIEW FROM S	outh	PHOTO TAKEN October 1979
-,	n/a				-
2)	PRESENT USE:		N- Maria Company	~o•	ELEKT TOUT
-/	GF canal regula	ition	+	er er "	No.
	UF n/a		عمد الله على الله على الله	والمعارض والمعارض	
3)	NO OF STORIES	n/a			- CENTAL
	PROP SQ FT		I DE		747
	VE 194	n/a			
	ROOF	n/a			
	STRUCTURAL SYST				
,	wood fram				A.
8)	OUTBUILDINGS				
٠,	chain & windlas	ss			
91	MATERIALS:			4	
"	FOUNDATION			7.34	
	n/a				
	FACADE heavy	L			

10) NOTABLE SURFACE & LANDSCAPE ELEMENTS adjacent control equipment

TRIM n/a

ADI	ORESS	REET, HEAT REVERS OTHER
VI	SUAL ASSESSMENT	- PA
1)	CONDITION OF BUILDING FABRIC	needs minor repair
2)	IF DETERIORATED, CAUSES	lack of maintenance
3)	INTEGRITY OF HISTORIC BLDG FABRIC: GF_	intact original fabric
	UF_	n/a
4)	SURROUNDING LAND USESindustrial, r	ailroad, canal frontage
5)	INTEGRITY OF PROP'S HIST SETTINGsev_	erely disrupted historic setting
6)	IMPORTANCE OF PROP TO HIST SETTING COM	patible with character

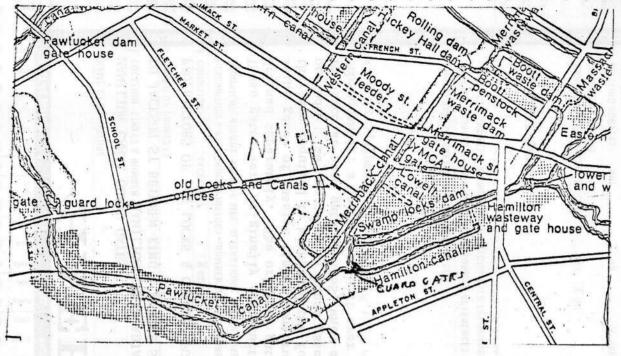
ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

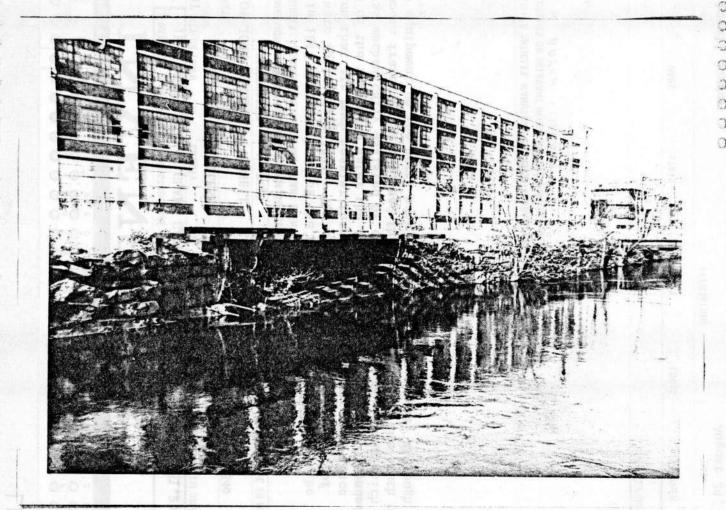
Guard locks were installed in 1847 on the Hamilton Canal to allow it to be drained separately. In 1853 the original gates were replaced, perhaps with the present ones. This pair of swing gates is constructed of massive timbers, and appears to be in sound condition. On both banks there is chain and windlass equipment to assist in operating the gates.

ARCHEOLOGICAL COMMENT

The areas around the chain and windlass equipment on each bank may contain remains of the sheds that formerly sheltered these features.

LOW 990





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	AER	TIN	VEL	A I O	RY		
1. NAME OF STRUCTURE			3. NATURE OF STRUCT		4. INDUSTRIAL CLASS	IFICATION	
HAMILTON CANAL GUARD GAT		1853	CANAL GUARD	GATES		HYDRA (81.2)	
5. LOCATION: STREET & NUMBER HAMILT	and the second of the second o		COUNTY		A MANAGEMENT OF THE PROPERTY OF THE PARTY OF	1/2 QUAD & UTM GRID	REF.
TO JACKSON ST BETWEEN KI	NG & BEVERE STS	LOWELL	MIDDLESEX	<u> </u>	MA LOWEL	L 0 170, 4 7 2 3 3 4 0	
PROPRIETORS OF THE LOCKS			r LOWELL		19.31	017%4723340	
8. CONDITION: EXCELLENT	X GOOD FAIR	DETERIORAT		UNEXPOSED	ALTERED	X ACCESSIBLE TO PU	IBLIC
S. DESCRIPTION & BACKGROUND HISTORY: N							
EQUIPMENT; APPROX. AREA OF SITE; ALTERATIONS; PRESENT USE; ENGINEER/ ARCHITECT/DESIGNER; IMPORTANT EVENTS & INDIVIDUALS.							
These gates were originally constructed in 1847 near the head of the Hamilton Canal to allow it to be drained separately. The original gates were replaced in 1853. The extant gates are a single set of swing gates of massive timber construction that are much heavier than standard navigation gates since							
							they are required to wit
periods. The operation							
in place at each gate by							
			the north he	my hut noit	han and avta	at although	tha B
Subsequently, a house wa winding equipment is. (the north ba	mk, but neit	her are exten	nt, although	the
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LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

Identification—	
IDLCS: 40603	Structure Number: HAMGGATE
Structure Name 1: HAMILTON CANAL S Structure Name 2: HAMILTON CANAL S Structure Name 3:	GUARD GATES SECTIONAL GATES
ORGCODE: 1780 County: MIDE Regional Offi Subunit ORGCODE: Name:	.ce: NORTH ATLANTIC
Alpha Code: County: MIDE	LESEX State: MA
Number of UTM's: 0	one/Easting/Northing
Ellenthent (outla	
Significance———————————————————————————————————	Property (reached)
NR Status: ENTERED - DOCUMENTE Significance: NATIONAL	Date: 10/18/85
NHL: YES Significance	Date: 12/22/77
ERECTED 1847; ALLOWED HAMILTON CANAL TO BE DRAINED S REPLACEMENTS. CHAIN & WINDLASS EQUIP'T. @ EA. BANK ——Historical Information——	EPARATELY. EXTANT TIMBER GATES MAY BE THE 1853 FACILITATED GATE OPERATION; FORMERLY SHELTERED.
Period of Construction: HISTORIC	NAME OF THE OWNERS OF THE PARTY
Date: 1847- (BU) Designer: Date: 1853- (AL) Designer: Date: - () Designer: Date: - () Designer:	TERS SALIGNOT LOSS ATM ()
Functions, Uses, Materials, Impac	ts, and Condition-
Historic Functions UTILITY SERVICE STRUCTURE	Current Uses UTILITY SERVICE STRUCTURE
BuildingsMaterials	SStructures-
Foundation: Framing: Walls:	Sub-structure: GRANITE
Roof:	Super-structure: WOOD
Other: Volume: Description	IRON
DETERIORATING GATES COMPR. OF MASSIVE TIMBERS HELD TO HINGES LET INTO GRANITE FRAMES, AT N & S CANAL WALLS. SIDE HAS CHAIN SPOOLED AROUND IT.	GETHER W/ VERT. IRON PINS & STRAPS SIT ON IRON IRON WINDLASS EQUIP'T. EXTANT, BOTH SIDES; N
Impact Level: SEVERE Impact Typ	es: STRUCTURAL DETERIORATION
Condition: POOR	BIO. DEGRADATION (MOLD) INUNDATION (FLOODING)

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name Number

40603 LOWE HAMILTON CANAL GUARD GATES HAMGGATE

-Management Information----

NPS Legal Interest: NONE - PRIVATELY OWNED Life: Exp. Date: / / Federal Owner:

Local Owner: BH

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANDUME. Exp. Date: 04/03/96

Date: Proposed Ultimate Treat: Doc: Date: 08/00/81 Approved Ultimate Treat: PRESERVATION Doc: GMP

Treatment Costs Treatment Responsibilities

Interim Treatment: OTH Ultimate Treatment: OTH Interim: \$0 Date: / Ultimate: \$0 Date:

Routine Maintenance: OTH Level of Estimate: Cyclic Maintenance: OTH Estimator:

Approved Ultimate Treatment Completed: NO

Management Text

LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS CANAL WALLS & FLOOR; NPS & STATE SHARE GROUNDS MAINT. RESPONSIBILITIES. SNOW PLOWED OVER REMAINS OF GUARD GATE @ N SIDE IS DESTRUCTIVE. TOP TIMBERS MISSING @ S SIDE; IRON TIES EXTANT.

-Major Bibliographical References-

Nat. Cat: NO Nat. Reg.: 78003149 CSI:

HABS: BRIDGES: HAER: MA-4-A DAMS:

QTRS:

CLI CRBIB Other

1. 400101 MALONE, CANALS & IND. 1.

2. 2. 010390 GMP

HRS 1. 010385 HS ASSESS 2. 400107 HSR 3. 3. 3.

CLR 4. 4. 4.

Documentation Level: FAIR

Date Entered/Updated: 07/20/94 Logger: JIG

5. 400108

Date of Report: 04/04/95

page 2 of 2





Structure No. HAMGGATE IDLCS: 40603

HAMILTON CANAL GUARD GATES

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.992

Historic Name: Hamilton Canal Wasteway Gate House

Common Name:

Address: Hamilton Canal

in Hamilton Yard, off Jackson St

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: c 1872

Architect(s):

Architectural Style(s):

Use(s): Other Industrial; Other Water Related

Significance: Archaeology, Historic; Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

Designation(s): Landmark (12/22/1977); Nat'l Register District (06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Friday, October 29, 2021 at 12:33 PM

	7	CHE CASHING		The state of the s		,
						_LON.992
	1	LOWELL	CULTURAL	RESOURCES	INVENTORY	1BC NADIS 6/5/7
ID	ENTIFICATION	HAMILT _JACKSO	ON CANAL, in	n HAMILTON YA	ARD off	BE LUD- 12/13/83 MAP SHEET # 12
1)	CURRENT OWNER _		etors of Loc ack River	cks and Canal	s on	OWNER OCCUPIED yes
2)	HISTORIC NAME	Hamilt	on Wasteway	Gate House		NEDIS. 8/13/76
3)	CURRENT NAME	same			N 54	1 960 - 7 75
4)	PROPERTY TYPE	canal	structure		5) ZONING CI	ASSIFICATION A1
	TAXES: PAYMENTS					
	WITHIN BOUNDARI					
21.1.20	38					
ΗI	STORICAL ABST	RACT				
	CONSTRUCTION DAT		1872			
	SOURCE docume			imackInver	tory, p. 74	
	ARCHITECT OR BU	have encourage				
	HISTORIC OWNER	200			nals on Meri	rimack River
	ORIGINAL USE: G	THE STATE				Tandon Navor
50	PREVIOUS BLDGS	4.40.52.			A CONTRACTOR OF THE CONTRACTOR	
ر ر			Storm Storm Storm			
	SOURCE	docume	nted: Lowe	r Merrimack	. Inventory	
		-			14 W	
_	SCRIPTIVE DATA			TD01/	Buon	O TAKEN August 1979
-	ARCHITECTURAL S	TYLE	ATEM	FROM south	PHOT	O TAKEN August 1979
			- g ₁ ,	11 1/ /		Zira Taran Taran
2)	PRESENT USE:	1920 43	// /			
	GF canal regula	ation				
	UF <u>n/a</u>		1 新州			
3)	NO OF STORIES	1	1			
4)	PROP SQ FT	n/a				
5)	PLAN rectangula	ar		11		adden
6)	ROOF hip	## p				
7)	STRUCTURAL SYST	EM			12/1	
	wood frame					The state of the s
8)	OUTBUILDINGS non	ne				
9)	MATERIALS:	1			A	
	FOUNDATION		*			
3	not visib	ble				× ×
	FACADE all sid	des: st	eet metal p	ressed to res	semble brick	
	TRIM wood			-		

10) NOTABLE SURFACE & LANDSCAPE ELEMENTS

1)	CONDITION OF BUILDING FABRIC		needs major repair	
2)	IF DETERIORATED, CAUSES		lack of maintenance	
3)	INTEGRITY OF HISTORIC BLDG FABRIC:	GF	intact original fabric	
	*	UF	n/a	

- 5) INTEGRITY OF PROP'S HIST SETTING moderately disrupted historic setting
- 6) IMPORTANCE OF PROP TO HIST SETTING integral to character

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

This simple, one-story utilitarian structure, along with its gate-operating equipment, dates from 1872. The original gates and gate house were built in 1850 to remove ice from the Hamilton Canal into the lower Pawtucket Canal, via a covered, brick vaulted wasteway. In the early twentieth century, electric motor drive supplanted the manually controlled counterweighted, rack and pinion machinery which formerly operated the gates.

Sources

The Lower Merrimack River Valley: An Inventory, HAER and MVTM, pp. 74, 75.

ARCHEOLOGICAL COMMENT

Not applicable.





LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name

(DA. 1/0)

Number

40591 LOWE HAMILTON WASTEWAY GATE HOUSE HAMIL.GH

-Management Information-

AM 1978 Life:

NPS Legal Interest: NONE - LOCAL GOVERNMENT OWNED Federal Owner:

Exp. Date: / / Local Owner: MA/DEM

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96

Proposed Ultimate Treat: RESTORATION Doc: NONE Approved Ultimate Treat: PRESERVATION Doc: GMP

Date: Date: 08/00/81

Treatment Responsibilities

Treatment Costs

Interim Treatment: OTH

Interim: Ultimate: Date:

Ultimate Treatment: OTH Ultimate: Routine Maintenance: OTH Level of Estimate:

\$0 Date:

Cyclic Maintenance: OTH

Estimator:

Approved Ultimate Treatment Completed: NO

LOWELL LOCKS & CANALS HISTORIC DISTRICT. ADJ. PARKING AREA PRIVATELY OWNED. FIRE/INTRUSION ALARM INSTALLED 1993. SCHEDULED FOR RESTORATION BY LHPC. WOOD ELEMENTS ARE DETERIORATING; STRUCTURE IS NEGLECTED. NPS DAM #143.

-Major Bibliographical References-

Nat. Reg.: 78003149

CSI:

Nat. Cat: NO

HABS:

HAER: MA-4-B

BRIDGES: DAMS: MA

Penchions, Uses, Makerial: : SATO

CLI

CRBIB

Other

1.

HRS 1. 010385 HS ASSESS 2. 400107

1. 400101 MALONE, CANALS & IND.

2. 3.

HSR 3.

2. 010390 GMP

4.

CLR 4.

3. 4. state — shilblind-

5. 400108

Documentation Level: GOOD

Date Entered/Updated: 07/20/94

Logger: JIG

Date of Report: 04/04/95

page 2 of 2

page 1.of

Impact Level: ModeRAWE Tapact Types: STRUCTERAL DETERLORATION

LOW , AAZ

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

ASSIPTED SPRUCTURES (108)

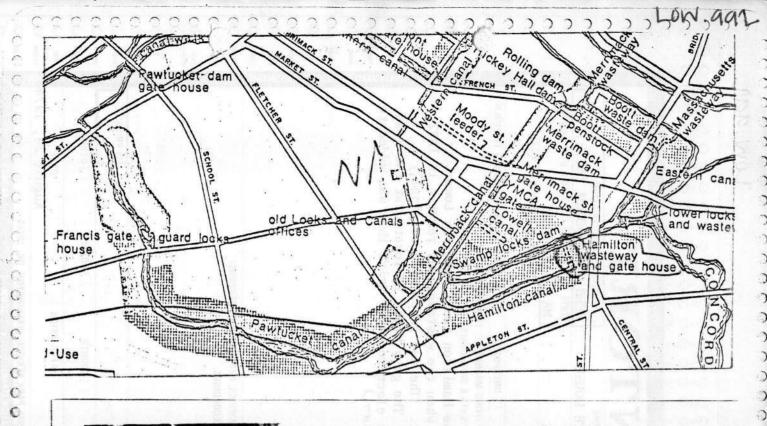
-Identification-Structure Number: HAMIL.GH IDLCS: 40591 Structure Name 1: HAMILTON WASTEWAY GATE HOUSE Structure Name 2: HAMILTON GATE HOUSE Structure Name 3: Park Alpha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK ORGCODE: 1780 County: MIDDLESEX
Regional Office: NORTH ATLANTIC State: MA Subunit ORGCODE: Name: County: MIDDLESEX Alpha Code: State: MA Zone/Easting/Northing Number of UTM's: -Significance-NR Status: ENTERED - DOCUMENTED Date: 10/18/85 Significance: NATIONAL NHL: YES Date: 12/22/77 Significance SIMPLE, UTILITARIAN STRUCT. & EQUIP'T. DATE TO 1872; REPLACED ORIG. (1850) GATES & GATE HOUSE. REMOVED ICE FROM HAMILTON CANAL TO LOWER PAWTUCKET, VIA BRICK-VAULTED WASTEWAY. LATER, ELECTR. MOTOR DRIVE SUPPLANTED MANUALLY-CONTROLLED RACK & PINION. -Historical Information-Period of Construction: HISTORIC Date: 1850-1872 (BU) Designer: Date: 1900-1920 (AL) Designer:) Designer:) Designer: Date: Date: -Functions, Uses, Materials, Impacts, and Condition-Current Uses Historic Functions UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE -Buildings-----Materials-----Structures-Sub-structure: GRANITE Foundation: GRANITE Framing: WOOD
Walls: METAL BRICK Super-structure: GRANITE Roof: ASBESTOS Other: BRICK Volume: 2,001 - 20,000 CUBIC FT Description SIMPLE HIP-ROOFED, 1-STORY, 3-BAY BLDG. CLAD W/ BRICK-PATTERNED, STAMPED MTL. PANELS HOUSES GATE MACHINERY: STRADDLES HAMILTON WASTEWAY JUST SE OF RIGHT-ANGLE BEND IN CANAL. WD. TRIM BOARDS, EAVES. 4/4 D.H. WINDOWS. BRICK CHIMNEY. Impact Level: MODERATE Impact Types: STRUCTURAL DETERIORATION TENANTS/OCCUPANTS Condition: POOR VANDALISM

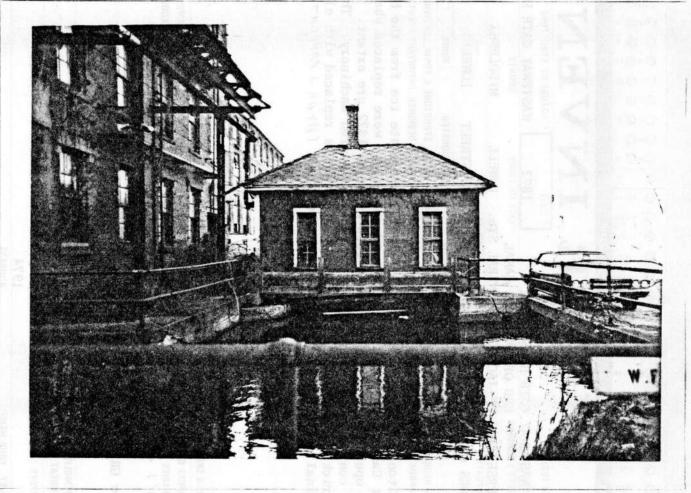


Structure No. HAMIL.GH

IDLCS: 40591

HAMILTON WASTEWAY GATE HOUSE





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1. NAME OF STRUCTURE		2. DATE	3. NATURE OF STRUCT			RIAL CLASSII	ICATION		
HAMILTON WASTEWAY GATE		1872	WASTEWAY GAT	TE HOUSE		STRUC:H			1
5. LOCATION: STREET & NUMBER END C		CITY OR TOWN	COUNTY			6. USGS 7		UTM GRID R	EF.
NEAR INTERSECTION OF JA 7. OWNER OF PROPERTY	CKSON & CENTRAL ST ADDR		MIDDLESEX	<u> </u>	MA.	LOWEL	L 0619.472	3510	
PROPRIETORS OF THE LOCK			T LOWELL			19.31	001.472	. 3310	
8. CONDITION: EXCELLENT	X GOOD FAIR	DETERIORA	TED RUINS	UNEXPOSED	[] Al	TERED	X ACCESSIB	BLE TO PUBL	IC .
9. DESCRIPTION & BACKGROUND HISTORY:						AND			
EQUIPMENT; APPROX. AREA OF SITE; AL						nto +1-	Louise		
The Hamilton Wasteway w Pawtucket Canal. The c								1872	
The gate operating equi									
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of the brick vaulted wa					otor di	rive tha	t was a	idded to	0 2
the original equipment	parly in the 70th	centum	HEAD A PARKE	77)					- 100
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Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.9016

Historic Name: Lower Western Canal - Lawrence Wasteway

Common Name:

Address: Western Canal

Btn Lawrence Dam and Merrimac River

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: c 1830

Architect(s):

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Archaeology, Historic; Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic

Designation(s): Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):

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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

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Available

VION MENROIS - 6/5/78 INRDIS - 8/13/76 LIATZ 12/13/83 NHE 12/22/77

LOW.9016

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

Identification	
IDLCS: 40616	Structure Number: LAWE.WW
Structure Name 1: LAWRENCE WASTEWA Structure Name 2: LOWER WESTERN CA Structure Name 3:	
ORGCODE: 1780 County: MIDD	LL NATIONAL HISTORICAL PARK DLESEX State: MA .ce: NORTH ATLANTIC
Alpha Code: County: MIDD	LESEX State: MA
Number of UTM's: 0	one/Easting/Northing
Treatment Custs	enlatidian cent magazan?
Significance	UTC Identical single
NR Status: ENTERED - DOCUMENTE Significance: NATIONAL	Date: 10/18/85
NHL: YES Significance ACTUALLY A PORTION OF THE WESTERN CANAL BELOW THE LARIVER.	
Historical Information-	
Period of Construction: HISTORIC	asonarpies (solminipolitika johan
Date: 1828-1832 (BU) Designer: Date: - () Designer: Date: - () Designer: Date: - () Designer:	{-} Mac. Reg.: 78003149 .CSI: 8
Functions, Uses, Materials, Impac	ts, and Condition-
Historic Functions CANAL UTILITY SERVICE STRUCTURE	Current Uses CANAL UTILITY SERVICE STRUCTURE
BuildingsMaterial	s——Structures—
Foundation: Framing: Walls:	Sub-structure: STONE GRANITE
Roof: Other: Volume:	Super-structure: STONE GRANITE
Description PORTION OF LOWER WESTERN CANAL FROM LAWRENCE DAM TO MARKEDLY TOWARDS RIVER. CANAL WALLS COMPRISED OF MA FOUNDATIONS FOR FORMER MILL BLDGS. CROSSED BY 24" F	ANY DIFFERENT MATERIALS; MAY HAVE SERVED AS
Impact Level: MODERATE Impact Ty Condition: FAIR	pes: STRUCTURAL DETERIORATION VEGETATION NEGLECT

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

TDLCS Park Structure Name Number

40616 LOWE LAWRENCE WASTEWAY LAWE.WW

-Management Information-

NPS Legal Interest: NONE - PRIVATELY OWNED Life:

Exp. Date: /

Federal Owner:

Local Owner: BH

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMET. Exp. Date: 04/03/96

Proposed Ultimate Treat:

Doc:

Date:

Approved Ultimate Treat: PRESERVATION Doc: GMP

Date: 08/00/81

Treatment Responsibilities

Treatment Costs

Interim Treatment: OTH Ultimate Treatment: OTH

Interim: Ultimate: Date:

Routine Maintenance: OTH Level of Estimate:

Date:

Cyclic Maintenance: OTH

Estimator:

Approved Ultimate Treatment Completed: YES

LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS CANAL WALLS/FLOOR. CANAL WALKWAY PROPOSED.

Major Bibliographical References-

Nat. Req.: 78003149

CSI:

Nat. Cat: NO

HABS:

HAER: MA-5

BRIDGES:

DAMS: QTRS:

CLI

CRBIB

Other

1.

HRS 1. 010385

1. 400101 MALONE, CANALS & IND.

2.

HS ASSESS 2. 400107

2. 010390 GMP

3.

HSR 3.

3.

4.

CLR 4.

4.

5. 400108

Documentation Level: FAIR

Date Entered/Updated: 07/20/94

Logger: JIG

Date of Report: 04/04/95

page 2 of 2



Structure No. LAWE.WW IDLCS: 40616

LAWRENCE WASTEWAY

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.931

Historic Name: Pawtucket Canal Lower Locks and Dam

Common Name:

Address: Lower Pawtucket Canl

East of Central St

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: 1822

Architect(s): Boott, Kirk

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Engineering; Industry; Transportation

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

Designation(s): Landmark (12/22/1977); Nat'l Register District (06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):

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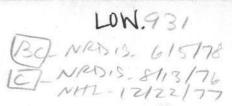
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LOWELL CULTURAL RESOURCES INVENTORY



ID	ENTIFICATION	PAWTUC	KET CANAL East of	CENTRAL STRE	ET	MAP SHEET # 12
1)	CURRENT OWNER _	Propri	etors of Locks ar	nd Canals		OWNER OCCUPIED ye
2)	HISTORIC NAME _	Lower	Locks		BE	WD 12/13/0
					ING CLASSI	FICATIONB3
			LNHP Locks a			
	9 av					
	STORICAL ABST					
1)	CONSTRUCTION DA	TE	1822-23; 184	1-43, etc.		- E
	SOURCEdocume	nted:	Lower Merrimack.	.Inventory, p	. 72	
2)	ARCHITECT OR BU	ILDER _	unknown			
3)	HISTORIC OWNER	Pro	prietors of Locks	and Canals		
5)	PREVIOUS BLDGS	ON PROPI	ERTY yes DATE	ca. 1792-182	22	
	SOURCE	docume	nted: See Resear	ch Report		
	utilitarian PRESENT USE:				1	KEN October 1979
	GF canal naviga	tion		CT THE RE		THE SECTION
3)	NO OF STORIES 1		Terres I			1:1, 1:1, 21 - 1
	PROP SQ FT n/a	T	P	The second	114.5	A A MARKET
	PLAN rectangula		THE	No Park News		1/2 M
6)	ROOF facade gal		A COMPANY	114		
	STRUCTURAL SYST			1		Trans.
	wood frame load-bearing ma				1,5%	The same of
8)	OUTBUILDINGS					
	concrete siphor	ıs	24			
9)	MATERIALS:			3 13		
	FOUNDATION	1			1	
	rubble stone					
	FACADE wood	lapboar	d, metal sheathin	ng		
	TRIM none					
0)	NOTABLE SURFACE	& LANDS	SCAPE ELEMENTS	none		

ADI	DRESS PAWTUCKET CANAL East of CENTRAL STREET
VI	SUAL ASSESSMENT
1)	CONDITION OF BUILDING FABRIC needs minor repair
2)	IF DETERIORATED, CAUSES <u>lack of maintenance</u>
3)	INTEGRITY OF HISTORIC BLDG FABRIC: GF intact with evolutionary alterations
	UF_n/a
4)	SURROUNDING LAND USES
5)	INTEGRITY OF PROP'S HIST SETTINGseverely disrupted historic setting
6)	IMPORTANCE OF PROP TO HIST SETTING integral to character

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

The Lower Locks and Dam are located at the end of the Pawtucket Canal, above a wasteway that empties into the Concord River. Like the Swamp Locks, Lower Locks assumed its basic configuration of two locks to the south of the dam in 1822-23, but much of its present fabric dates to an 1841-43 rebuilding.

Just as in the case of Swamp Locks, that reconstruction narrowed the twenty-five foot wide rubble stone locks to twelve feet, by building new stone walls at the locks' gates, and wooden walls along the lock chambers' sides. The wooden walls are now gone.

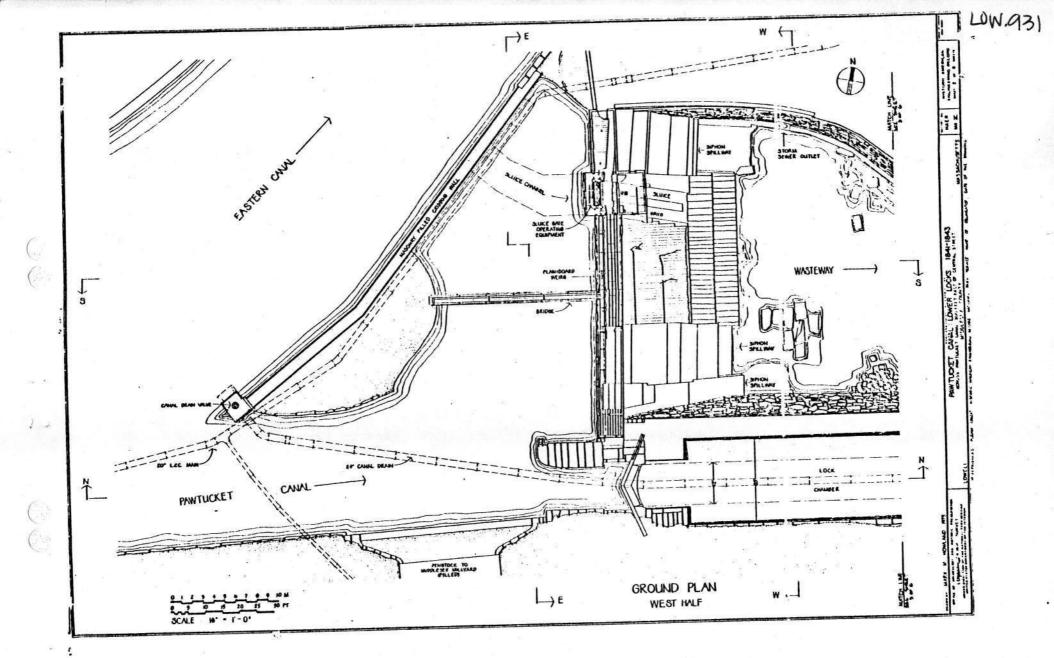
Other changes to the complex include a 1905 deepening of the eastern end of the lowest lock by two-and-a-half feet, a rebuilding of the sluiceway at the north side of the dam in 1887, and construction of concrete siphon spillways between 1946 and 1958. The house atop the dam has been in place since the late nineteenth century.

Source

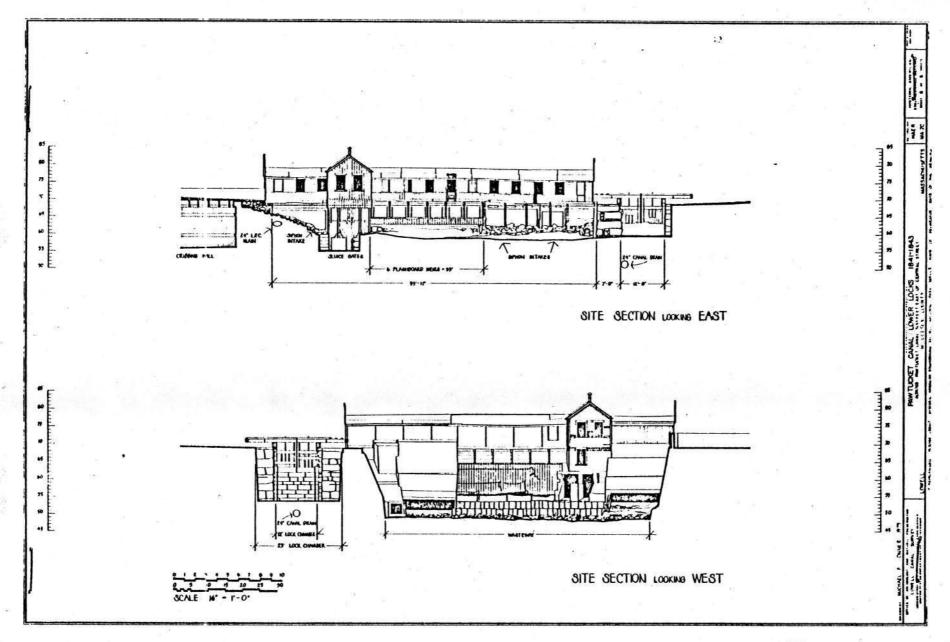
Lower Merrimack Valley... Inventory, p. 72.

ARCHEOLOGICAL COMMENT

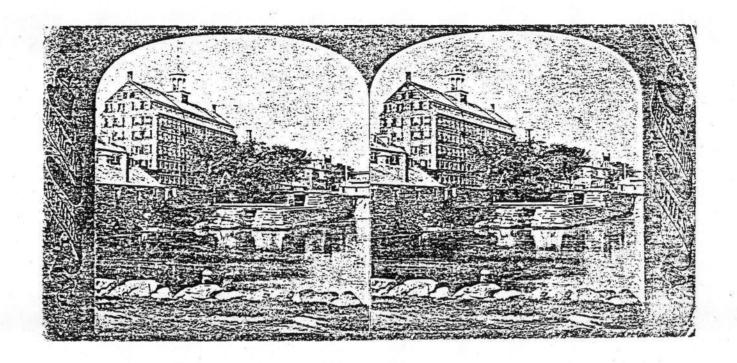
See comment on preceding Swamp Locks form.



Ground plan of the west half of the Lower Locks complex, drawn for HAER, in 1975. The dam is right center, the upper lock at lower right. From Malone's The Lowell Canal System, 1976.



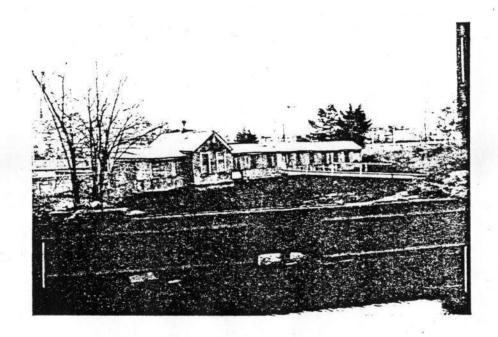
Sections of the Lower Locks, from upstream (top) and downstream (bottom), drawn for HAER in 1975. From Malone's The Lowell Canal System, 1976.



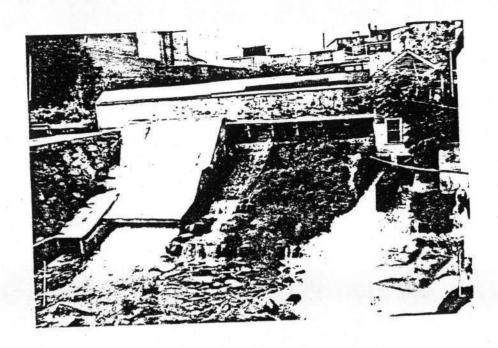
Stereographic view of the Lower Locks and the adjacent Middlesex Company Mill No. 1 (built 1832), photographed before 1880. U. of Lowell Library, Special Collections, photo file.



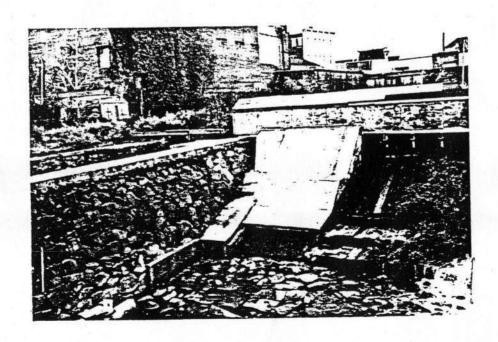
View of the Lower Locks from the east.



View of Lower Locks from the northwest. Photo taken in October 1979.

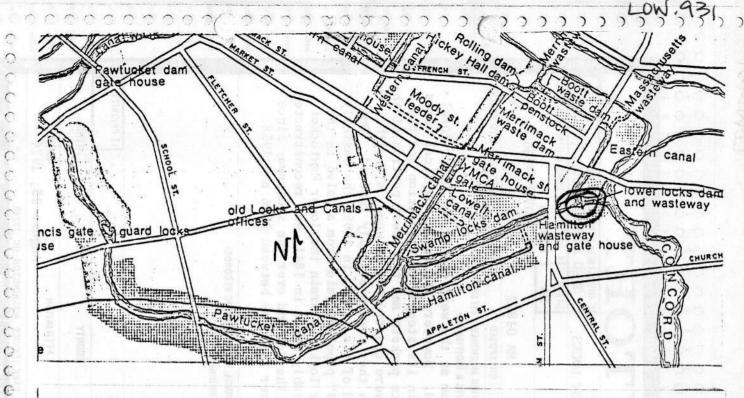


View of the Lower Locks from the northeast. Note the sluiceway at right, the stepped configuration of the dam at center, and the concrete siphon spillways at the left, beside the lock wall. Photo taken in August 1979.



View of the Lower Locks from the northeast, during a period when the water has been drained from the canal. At left is the rubble stone wall of the upper one of the pair of Lower Locks. Photo taken in October 1979.

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HA	AER	IN	VED	1 T ()	RY		
1. NAME OF STRUCTURE			NATURE OF STRUCTI		I. INDUSTRIAL CLASSIF	ICATION	ĕ
LOWER LOCKS & DAM			AM & NAVIGAT		SPEC STRUC:		100
5. LOCATION: STREET & NUMBER	William Court of the American Street Court of the Court o	CITY OR TOWN	COUNTY			/2 QUAD & UTM GRID R	EF. 😨
LOWER PAWTUCKET CANAL JUST			MIDDLESEX		MA LOWELL		- E
PROPRIETORS OF THE LOCKS &	CANAL FOOT	OF JOHN STREE	T LOWELL	MA 018		79.4723650	ns
8 CONDITION: EXCELLENT	GOOD X FAIR	DETERIORATE		UNEXPOSED		X ACCESSIBLE TO PUBL	ıc '
S DESCRIPTION & BACKGROUND HISTORY - NUM	1.4.2		9-21			ACCESSIBLE TO FUBL	.10
EQUIPMENT; APPROX. AREA OF SITE; ALTERAT	IONS; PRESENT USE; ENGI	NEER/ ARCHITECT/DES	IGNER; IMPORTANT EN	ENTS & INDIVIDUALS.			
The basic configuration of was achieved in 1822-1823							
was achieved in 1822-1823							5
are based on the rebuilding locks narrowed from 25' to							
lower chamber were done in							the
existing 25' rubble locks.							AD AD
to frequent low water cond	itions in the C	Concord River	at the low e	nd of the loc	ks, in 1905,	the easterly	₩ HO
a half of the lower lock was							Ē,,
canal above the dam, benean Canal. The sluice way on							, A
in 1887. A protective lig							□ MA
the late 19th century. Th							HE HE
10. PHOTOGRAPHS & SKETCH MAP ON REVERSE S	IDE.				9		co
11. RELATED SOURCES OF INFORMATION: HISTOR	ICAL REFERENCES (PUBLIS	SHED ARTICLES, MANUS	CRIPTS, REPORTS, DR	AWINGS, PHOTO GRAPH	IC RECORDS)		н
CONTACTS: (NAMES & ADDRESSES OF ANYON	E WITH EYE-WITNESS ACC	OUNTS OR RELEVANT IN	(FORMATION); TAPE R	ECORDINGS.			TU
See GREAT GATE.							DA
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15.0							93
2 12 DANGER OF DEMOLITION OF DAMAGE TO VE	W 110						
2 12. DANGER OF DEMOLITION OR DAMAGE YES NATURE OF THREAT:	A NU					13.PRIORITY	
14. EXISTING SURVEYS	X HAER 1974	☐ HABS	STATE	COUNTY	LOCAL	OTHER	TEOHNO!
15. INVENTORIED BY: YOUR NAME	ADDRESS			AFFILIATIO		DATE	E ROO
Charles Hyde & Charles Par		Lowell Surve	у			23, 1974	a n
PLEASE RETURN TO THE MAMUFACTURING INDUSTRIES (MFG) UTILITIES	HISTORIC AMERICA	AN ENGINEERING * PRIME MOVERS (PS *		CONTROL AND	CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE		FR
Carrier of the contract of the			TRANSPORT.	TION (TRANS)	COMM	BRIDGES	FO.
MACH TEGUI NNST GM FG GM FG GM FG	DESCRIPTION TO SEE S	CONTRACTOR SECTION					P30618X F0
£ 2	MUSIL WATER WHEEL WATER WATER WATER TURB	STEAN STEAN TURB HNT COME DIESE	RB RGAD CANAL MARIN	TE PIPE	RETY BEAM ARCH TRUSS	SUSP AQUE TRES CANT MOVE	P30618X FC

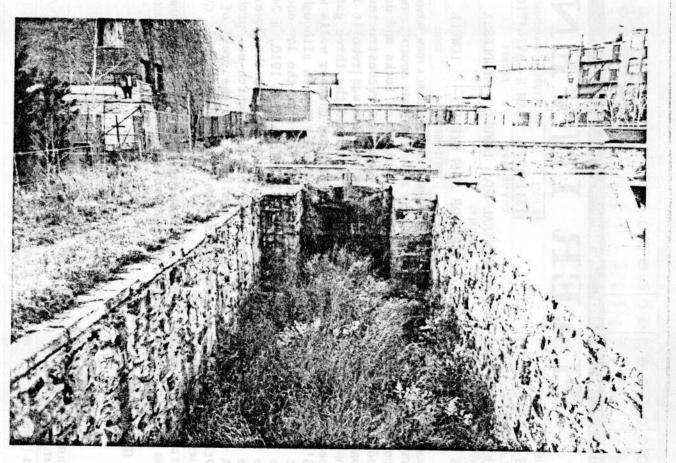


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LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Identification—— IDLCS: 40574 Structure Number: L.LOCK Structure Name 1: LOWER LOCKS Structure Name 2: PAWTUCKET CANAL - LOWER LOCKS Structure Name 3: "LOWER LOCK" Name: LOWELL NATIONAL HISTORICAL PARK Park Alpha Code: LOWE ORGCODE: 1780 County: MIDDLESEX
Regional Office: NORTH ATLANTIC State: MA Subunit ORGCODE: Name: County: MIDDLESEX Alpha Code: State: MA Zone/Easting/Northing Number of UTM's: 0 -Significance-NR Status: ENTERED - DOCUMENTED Date: 10/18/85 Significance: NATIONAL NHL: YES Date: 12/22/77 Significance SITE OF OLD SAW/GRIST/TEXTILE MILLS. DAM AND LOCKS HERE WERE REBUILT OR RENEWED SEVERAL TIMES -MOST NOTABLY IN 1822-23 BY KIRK BOOTT, IN ORDER TO MAINTAIN LOWER CANAL LEVEL 17' ABOVE CONCORD RIVER. TWO LOCK CHAMBERS REQ'D. -Historical Information-Period of Construction: HISTORIC Date: 1792-1802 (BU) Designer:
Date: 1822-1823 (AL) Designer:BOOTT, KIRK
Date: 1841-1910 (AL) Designer: Date: 1985-1993 (RR) Designer: NPS & DEM -Functions, Uses, Materials, Impacts, and Condition-Historic Functions Current Uses CANAL LOCK CANAL UTILITY SERVICE STRUCTURE CANAL UTILITY SERVICE STRUCTURE INTERPRETATION FACILITY -Buildings-----Materials------Structures-Sub-structure: GRANITE Foundation: Framing: Walls: Roof: Super-structure: GRANITE Other: WOOD Volume: IRON Description RESTORED STONE DOUBLE LOCK CHAMBERS W/ TIMBER BALANCE LEVERS AT LOWER PAWTUCKET CANAL, JUST BELOW EASTERN CANAL MOUTH. LUKE "DEACON" RAND STONEWORK STILL EVIDENT @ UPPER LOCK CHAMBER & WASTEWAY WALLS. ADJ. DAM TOPPED W/ GAUGE AND GATE HOUSES. Impact Level: MODERATE Impact Types: STRUCTURAL DETERIORATION INUNDATION (FLOODING) Condition: GOOD

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

TDLCS Park Structure Name Number 40574 LOWE LOWER LOCKS L.LOCK -Management Information-NPS Legal Interest: NONE - PRIVATELY OWNED Federal Owner: Exp. Date: / / Local Owner: BH AM 191518 \Life: Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96 Proposed Ultimate Treat: Doc: Date: Date: 08/00/81 Approved Ultimate Treat: PRESERVATION Doc: GMP Treatment Responsibilities Treatment Costs Interim Treatment: NPS \$0 Date: Interim: Ultimate Treatment: NPS Ultimate:
Routine Maintenance: NPS Level of Estimate:
Cyclic Maintenance: NPS Estimator: \$0 Date: Approved Ultimate Treatment Completed: YES LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS CANAL WALLS & FLOOR; NPS SHARES

-Major Bibliographical References-

Nat. Reg.: 78003149 CSI: Nat. Cat: NO

GROUNDS MAINT. RESPONSIBILITIES W/ STATE.

HABS:

HAER: MA-2-C

BRIDGES:

DAMS: MA00835

QTRS:

CLI

CRBIB

Other

1. HRS 1. 010385 2. HS ASSESS 2. 400107 1. 400101 MALONE, CANALS & IND. 2. 010390 GMP

HSR 3. 010625 3.

3. 010674 MAHLSTED, HSR ARCHEOL. 4.

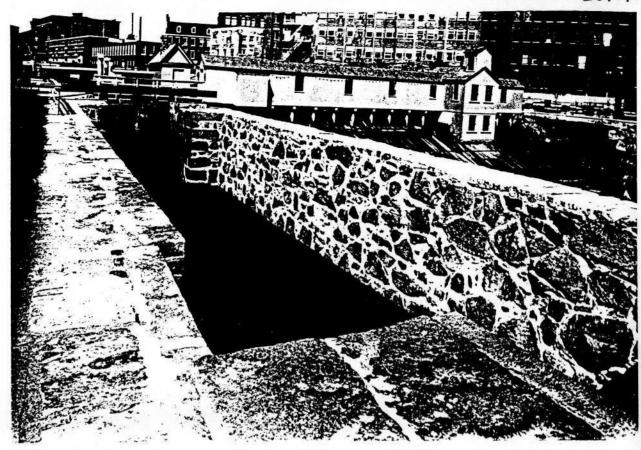
CLR 4. 5. 400108

Documentation Level: GOOD

Date Entered/Updated: 07/20/94

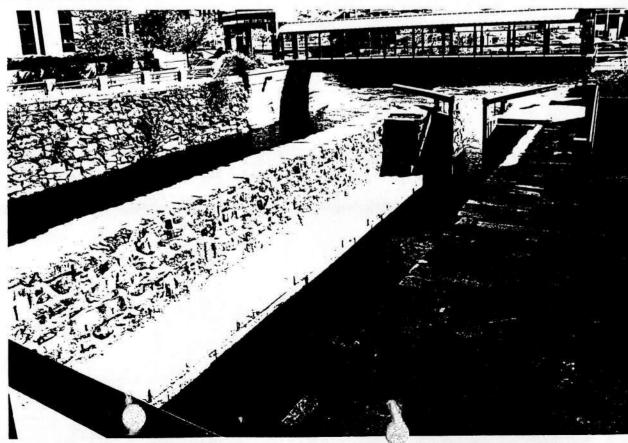
Logger: JIG

Date of Report: 04/04/95



Structure No. L.LOCK

IDLCS: 40574 LOWER LOCKS



Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.929

Historic Name: Lower Pawtucket Canal

Common Name: Old Canal

Address: Lower Pawtucket Canal

City/Town: Lowell Village/Neighborhood: Downtown

Local No:

Year Constructed: c 1792

Architect(s):

Architectural Style(s):

Other Industrial; Other Transportation; Other Water Use(s):

Related; Utilities Other

Significance: Engineering; Industry; Transportation

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Designation(s): Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



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This file was accessed on: Monday, November 1, 2021 at 11:37 AM

LOWELL CULTURAL RESOURCES INVENTORY

IDENTIFICATION	to the CONCORD RIVER r	lear EAST MERRIMAC	CK STREET MAP SHEET # 5,
1) CURRENT OWNER	Proprietors of Locks a	and Canals	OWNER OCCUPIED
2) HISTORIC NAME	Patucket or Pawtucket	Canal /	3E NO 12/13/8
) CURRENT NAME	Pawtucket Canal		
) PROPERTY TYPE	canal	5) ZONI	NG CLASSIFICATION Various
	current	STATUS	
	RIES OF LNHP, Locks an		¥
HISTORICAL ABS	TRACT	950	
	DATE 1792-6, 1822-4	8	
SOURCE docume			anal System, Malone.
2) ARCHITECT OR I			
[[[[[[[[[[[[[[[[[[[Locks and Canals	on the Merrimack River
4) ORIGINAL USE:	The state of the s	canal UF n/a	
	ON PROPERTY NO DA		
SOURCE	7		
SOURCE			er e
DESCRIPTIVE DA		OM north	DUOTO TAKEN O-1-1 1070
1) ARCHITECTURAL		On	_PHOTO TAKEN October 1979
n/		e k	A CONTRACTOR OF THE PARTY OF TH
2) PRESENT USE:		rok.	
GF power can			
UF			Jan 1
3) NO OF STORIES			
4) PROP SQ FT			
5) PLAN			
6) ROOF	n/a		
7) STRUCTURAL SY:	7000001		
masonry and rei	nforced		
8) OUTBUILDINGS			
see following	forms		
9) MATERIALS:	The state of		
FOUNDATION n/	a		
FACADE as	shlar granite, rubble s	tone, reinforced	concrete
TRIM n/	a		
			oped as park at northern en

VISUAL ASSESSMENT	VI	SUAL	ASSESSMENT
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<u>v +</u>	SOAL ASSESSMENT		
1)	CONDITION OF BUILDING FABRIC	good	
2)	IF DETERIORATED, CAUSES	n/a	
3)	INTEGRITY OF HISTORIC BLDG FABRIC:	GF_	intact with evolutionary alterations
		UF	n/a
4)	SURROUNDING LAND USES commercial,	presswa Industr	yalcanal frontage, river frontage, lastitutional
5)	INTEGRITY OF PROP'S HIST SETTING	moderat	ely disrupted historic setting
۲١	TAMODELNICE OF BROD TO HIST SETTING	focal	point in area

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

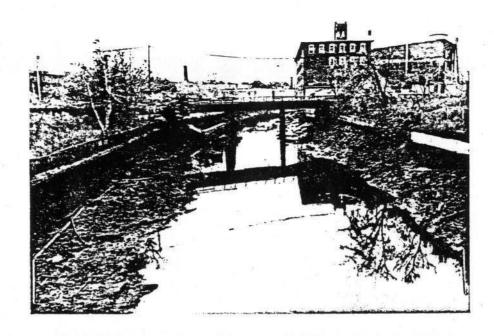
See Research Report, pages 1-3.

The Pawtucket Canal is a 9188 foot-long transportation and power canal that flows from the Merrimack River above the Pawtucket Falls, to the Concord River a few hundred yards above the confluence with the Merrimack River. The canal has three sets of locks—The Guard Locks, Swamp Locks, and Lower Locks—which accommodate a thirty—two foot difference in water level between the head of the canal on the Merrimack and the wasteway on the Concord. See the inventory forms on the individual sets of locks.

The Pawtucket varies from 80 to 100 feet in width, and averages eight feet deep. Its section is basically rectangular. Portions of its stone walls have been replaced with poured concrete.

ARCHEOLOGICAL COMMENT

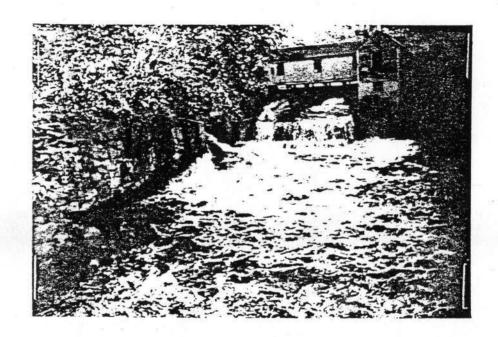
The 1820's widening of the Pawtucket Canal probably eradicated any remains of the canal's original fabric, including such features as the eliminated Minx Locks. The lengths of the canal between Broadway and School Streets, and above the Guard Locks have received less adjacent development than the lower portions, and possibly retain some traces of such early, canal-related features such as the towpath. The Middlesex Company near the Lower Locks was the only millyard to draw water for power directly from the Pawtucket, and filled-in penstocks and tailraces appear to survive beneath the surface of that razed yard.



View from Thorndike Street west along the Pawtucket, showing the canal with most of the water drawn off. Photo taken in October 1979.



View from the southwest of the Pawtucket Canal, at its junction with the Hamilton Canal (right). Photo taken in October 1979.



Pawtucket Canal passing through Swamp Locks. Photo taken in August 1979.

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Identification-Structure Number: LOW.PAWT **TDLCS: 40575** Structure Name 1: LOWER PAWTUCKET CANAL Structure Name 2: "OLD CANAL" Structure Name 3: Name: LOWELL NATIONAL HISTORICAL PARK Park Alpha Code: LOWE County: MIDDLESEX
Regional Office: NORTH ATLANTIC State: MA ORGCODE: 1780 Subunit ORGCODE: Name: County: MIDDLESEX State: MA Alpha Code: 0 Zone/Easting/Northing Number of UTM's: -Significance-NR Status: ENTERED - DOCUMENTED Significance: NATIONAL Date: 10/18/85 Date: 12/22/77 NHL: YES Significance BEGUN AS TRANSPORTATION CANAL AROUND MERRIMACK RIVER'S PAWTUCKET FALLS IN E. CHELMSFORD (LATER, LOWELL), 1792-1797; WOODEN NAVIGATION LOCKS BUILT AT GUARD, SWAMP & LOWER LOCKS. CANAL REBUILT 1822-24 TO SERVE AS POWER (AS WELL AS TRANSP.) CANAL. -Historical Information-Period of Construction: HISTORIC Date: 1792-1797 (BU) Designer: Date: 1822-1824 (AL) Designer: Date: 1910- (AL) Designer: (AL) Designer: Date:) Designer: -Functions, Uses, Materials, Impacts, and Condition-Historic Functions Current Uses CANAL CANAL UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE NAVIGATIONAL -Buildings-----Materials-----Structures-Sub-structure: GRANITE Foundation: CONCRETE Framing: Walls: Super-structure: GRANITE Roof: STONE Other: CONCRETE Volume: Description LOWER PAWTUCKET 2250' LONG, AVG. 8'-9' DEEP, 80'-100' WIDE; RUNS FROM SWAMP LOCKS TO CONCORD RIVER. SIGNIFICANTLY MODIFIED OVER THE COURSE OF A CENTURY OF CONTINUOUS USE. STONE, CONC. WALLS. 1910 CANAL DRAIN (24" PIPE) STILL IN USE. Impact Level: MODERATE Impact Types: STRUCTURAL DETERIORATION INUNDATION (FLOODING) Condition: GOOD

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name

Number

40575 LOWE LOWER PAWTUCKET CANAL

-Management Information----

NPS Legal Interest: NONE - PRIVATELY OWNED Federal Owner: L&C

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANDUM. Exp. Date: 04/03/96

Proposed Ultimate Treat: Doc: Date: Approved Ultimate Treat: PRESERVATION Doc: GMP Date: 0

Date: // Date: 08/00/81

Treatment Responsibilities

Treatment Costs

Interim Treatment: OTH

Interim:

\$0 Date: /

Ultimate Treatment: OTH Ultimate:
Routine Maintenance: OTH Level of Estimate:

\$0 Date:

Cyclic Maintenance: OTH Estimator:

Approved Ultimate Treatment Completed: YES PORTATION CHIMA AROUND NUMBERACK TEVER'S PARTHURE? FALLS IN E. DIEL

LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS (BUT DOES NOT OWN) PAWTUCKET CANAL WALLS/FLOORS; NPS SHARES MAINT. RESPONSIBILITIES W/ STATE ALONG CANALWAY.

-Major Bibliographical References-

Nat. Reg.: 78003149

CSI:

Nat. Cat: NO

HABS:

BRIDGES:

HAER: MA-2

DAMS:

doile of the cate QTRS: alsh to war asau caroldour

CLI

CRBIB

5. 400108

Other

1.

HRS 1. 010385

1. 400101 MALONE, CANALS & IND.

2.

HS ASSESS 2. 400107

2. 010390 GMP

3.

HSR 3. 010625

4.

CLR 4.

3. 4.

Documentation Level: GOOD

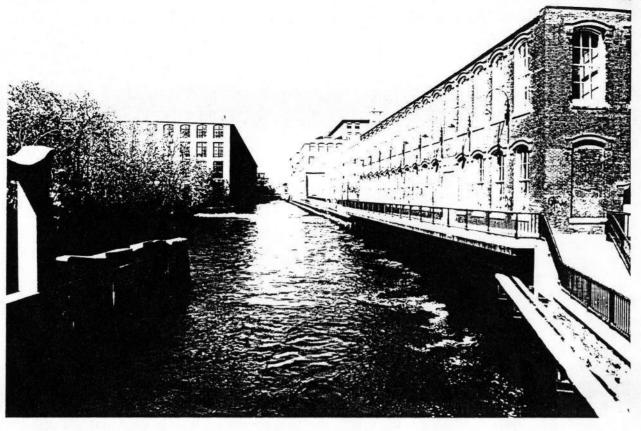
Date Entered/Updated: 07/20/94

Logger: JIG

Date of Report: 04/04/95

page 2 of 2

page 1 of 2



Structure No. LOW.PAWT IDLCS: 40575

LOWER PAWTUCKET CANAL

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.933

Historic Name: Merrimack Canal

Common Name:

Address: Merrimack Canal

Parallel to Dutton St

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: 1822

Architect(s):

Architectural Style(s):

Use(s): Other Industrial; Other Water Related
Significance: Engineering; Industry; Transportation

LOW.A: City Hall District

Area(s): LOW.C: Locks and Canals District

LOW.BC: Lowell National Historical Park LOW.BE: Downtown Lowell Historic District

Nat'l Register District (04/21/1975); Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l

Designation(s): Register District (06/05/1978); Local Historic District

(12/13/1983)

Building Materials(s):



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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Thursday, November 7, 2019 at 9:40: AM

LOWELL CULTURAL RESOURCES INVENTORY

BC	TNRDIS-	615/78
		8/13/76
	NHL	12/22/77

IDENTIFICATION	Parallel to DUTTON	STREET	MAP SHEET #7,11
1) CURRENT OWNER	Proprietors of Loc	ks and Canals	OWNER OCCUPIED yes
		ATNROIS- 4/2	
2) HISTORIC NAME	Merrimack Canal		_ BE LUTD- 12/13
3) CURRENT NAME	same	7 G	
4) PROPERTY TYPE	canal	5) ZONIN	G CLASSIFICATION A1, B3, B2A
6) TAXES: PAYMENTS	current	STATUS _	clear
7) WITHIN BOUNDARIES O	F LNHP C	ity Hall HD L	ocks and Canals HD LHPD
HISTORICAL ABSTRACT	r		
1) CONSTRUCTION DATE _	1822-23	T.	
		Dr. Spirit	
2) ARCHITECT OR BUILDE			
3) HISTORIC OWNER	Merrimack 1	Manufacturing Com	pany (1822-24)
4) ORIGINAL USE: GF w	ransportation and ater power	UF n	/a
5) PREVIOUS BLDGS ON P	ROPERTY no DAT	E	
SOURCE			
DESCRIPTIVE DATA 1) ARCHITECTURAL STYLE	VIEW FROM	M southwest	PHOTO TAKEN September1979
n/a	a # a i		
2) PRESENT USE:		C FEV	
GFcanal		£ 1	
UF n/a		1	
3) NO OF STORIES n/a	12 12 12 12 12 12 12 12 12 12 12 12 12 1		
4) PROP SQ FT n/a			The state of the s
5) PLAN n/a			
6) ROOF n/a	一 <i>新</i> .		
7) STRUCTURAL SYSTEM ashlar and concrete walls			
8) OUTBUILDINGS various gates			
9) MATERIALS:			
FOUNDATION			
n/a			
FACADE n/a		(a)	

ADDRESS Parallel to DUTTON STREE	ET	V 8	
VISUAL ASSESSMENT			
1) CONDITION OF BUILDING FABRIC	good		
2) IF DETERIORATED, CAUSES	n/a		
3) INTEGRITY OF HISTORIC BLDG FABRIC	: GF intact wit	h evolutionary a	lterations
	UF_n/a		
4) SURROUNDING LAND USES	capal frontage	recreational, in	stitutional
5) INTEGRITY OF PROP'S HIST SETTING	severely disru	pted historic se	tting
6) IMPORTANCE OF PROP TO HIST SETTIN	NG focal point i	n area	

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

The Merrimack Canal was built by the Merrimack Manufacturing Company between the spring of 1822 and November of 1823, as the first power canal off the Pawtucket Canal. The canal is ten feet deep, 3,500 feet long and forty to fifty feet wide. The early and rapid construction of the Merrimack Canal produced a canal of very irregular section, with ledges of bedrock projecting into the course of the canal at many points.

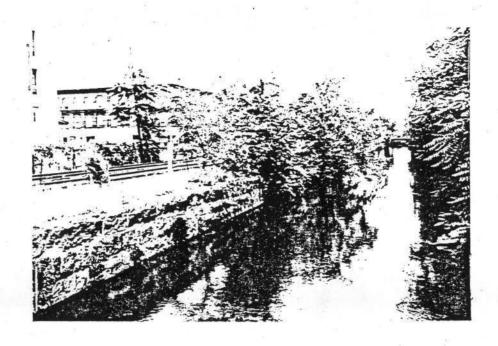
The Merrimack Canal was built to deliver water to the Merrimack Manufacturing Company at a level thirty feet above the water in the Merrimack River behind the mills. The canal later also supplied water to the Machine Shop, the Lowell Manufacturing Company via the Lowell Canal (after 1828), and Boott Mills on the Eastern Canal (via a penstock built in 1849).

Sources

Lower Merrimack Valley...Inventory, HAER and MVTM, p. 72.

ARCHEOLOGICAL COMMENT

Filled—in head races off the Merrimack Canal are visible at points along the former Machine Shop yard. At the northern end of the canal, the portion that formerly extended into the Merrimack Manufacturing Company millyard has been filled, and perhaps destroyed.

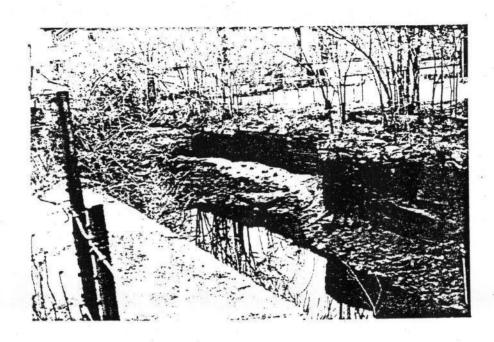


View from the Dutton Street bridge to the Machine Shop site, looking north along the Merrimack Canal. Photo taken in June 1979.

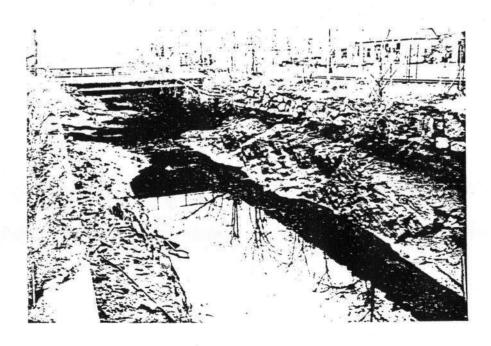


View from the south of the Merrimack Canal opposite the Machine Shop site, showing the drained canal. Photo taken in October 1979.

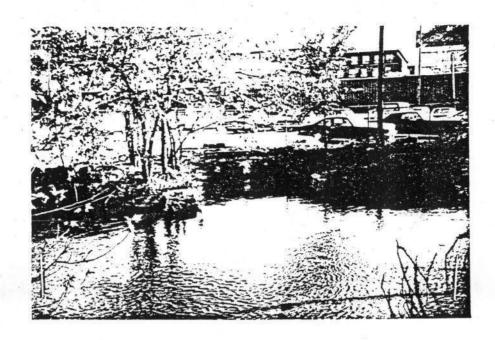
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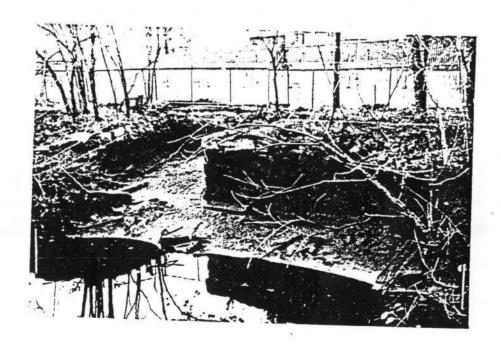
Detail of a second head race off the Merrimack Canal along the Machine Shop site, possibly for the sawmill raceway shown on 1832 and 1841 Lowell maps. Photo taken in October 1979.



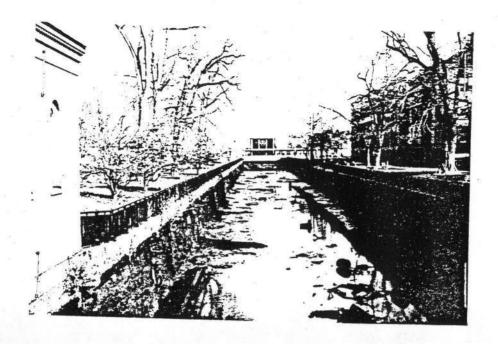
Merrimack Canal just north of Market Street, showing bedrock ledges that project into the course of the canal. Photo taken in October 1979.



View of a blocked-off head race in the Merrimack Canal at the Machine Shop site. Photo taken in June 1979.



Detail of the Machine Shop head race off the Merrimack Canal, shown when the canal was drained. Photo taken in October 1979.

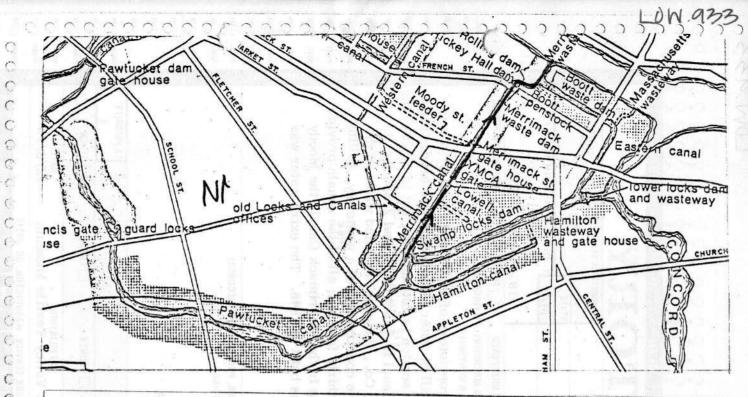


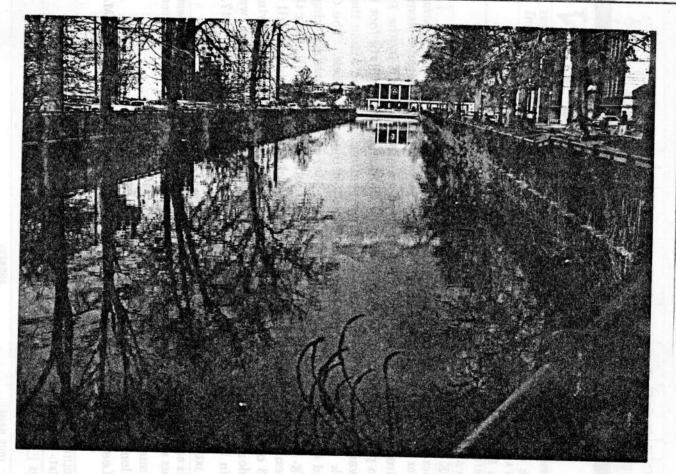
View north from Merrimack Street of the Merrimack Canal. In the background is the Union National Bank office, on the site of Merrimack Manufacturing Company's bell tower. Photo taken in November 1979.



View from French Street Extension south, showing the Merrimack Canal drained. Photo taken in October 1979.

000	HARE O COUNTY O LOCAL O TOTHER O TECH O THIST O THELD O SUBVEY O ALOAO ALOAO		
RE 1h C 00 09	EXISTING SURVEYS DATA DWGS PHOTOGRAPHS	STATES	
10 19 20 29	HAER INT	ENTO	RY 4. INDUSTRIAL CLASSIFICATION
30 39 40 49	Merrimack Canal 1822-1823 5. LOCATION: STREET & NUMBER CITY OR TOWN	Power Canal	STATE 812
ě	parallel to Dutton Street Lowell 7. OWNER OF PROPERTY ADDRESS	Middlesex	MA 6. USGS QUAD MAP & UTM GRID REF. Lowell
NSTRUCT	Proprietors of Locks and Canals, Boott Mills, Lowell, MA		19.310130. 472350
5	8. CONDITION: X EXCELLENT GOOD FAIR DETERIORATED	RUINS UNEXPOSED	☐ ALTERED ACCESSIBLE TO PUBLIC
TES 0	9. DESCRIPTION & BACKGROUND HISTORY: NUMBER OF STRUCTURES; DIMENSIONS; FABRIC; STRUCT EQUIPMENT; APPROX. AREA OF SITE; ALTERATIONS; PRESENT USE; ENGINEER/ ARCHITECT/DESIGN		
DA	The Merrimack Canal was the first of the power canals to be		
	intended to power the Merrimack Manufacturing Company wit	h a thirty foot fall of wate	er. Its design was crude; little
	attention was expended upon creating a uniform section. In		
NT ME	Merrimack the canal has simply been gouged out of the nativ		
(3)	length, and 40 to 50 feet wide. In addition to the Merrimack		
XTRA(Lowell Mfg. Co. and provided the Eastern Canal with water dam and penstock in the 1840s. Only the Merrimack Canal p		
RIES (E	either a 13 or 17 feet fall. In order to increase the amount		
1.74	Street feeder, connecting the Western Canal with the Merrin		
us E	available in 1848 because of the construction of the Northern		The casta water was
GI	10. PHOTOGRAPHS & SKETCH MAP ON REVERSE SIDE.		PECIA
	11. RELATED SOURCES OF INFORMATION: HISTORICAL REFERENCES (PUBLISHED ARTICLES, MANUSCRI	PTS. REPORTS. DRAWINGS PHOTO GRAP	HIC RECORDS)
	CONTACTS: (NAMES & ADDRESSES OF ANYONE WITH EYE-WITNESS ACCOUNTS OR RELEVANT INFO		mo keokbay
	U. S. Census of 1880, Vol. XVI		
8	P. M. Malone, Water Power in Lowell, Mass. (GPO, 1974)		[일본 - 기계 스크스, 지, 스크스 -
S (BU	Mr. Mel Lesberg, Manager, Proprietors of Locks and Cana	ls, Lowell, MA	144 B
Ĭ.			018
TINDUS	12. DANGER OF DEMOLITION OR DAMAGE YES X NO NATURE OF THREAT:		13. PRIORITY 1
PRODUC	14. EXISTING SURVEYS □ NHL. □ NR ☒ HAER , □ HABS AND DATES:	STATE COUNTY	LOCAL OTHER
BULK	Peter M. Molloy 800 Mass. Ave., N. Andover, MA 01845	AFFILIATI Merrimack Valley Te	extile Museum 12/8/75
1	PLEASE RETURN TO THE HISTORIC AMERICAN ENGINEERING R MANUFACTURING INDUSTRIES (MFG) UTILITIES (UTIL) POWER SOURCES & PRIME MOVERS (PS & PM)		ASHINGTON, DC 20240
		TRANSPORTATION (TRANS)	COMM BRIDGES P2061AX
MACH	FABR FABRE WATER TURB WIND COMB	RH RGAD CANAL MARINI MARINI PIPE	RATY ARCH ARCH ADUE CANT MOVE
00		9 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000





LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

Identification	
TDI 00. 40576	Ctwortune Numbers MEDWACK
IDLCS: 40576	Structure Number: MERMACK
Structure Name 1: MERRIMACK	CANAL
Structure Name 2: Structure Name 3:	
Scructure Name 3.	
	e: LOWELL NATIONAL HISTORICAL PARK
ORGCODE: 1780 County	y: MIDDLESEX State: MA al Office: NORTH ATLANTIC
Subunit ORGCODE: Name	e: " a value ad Louis . v 1049 Th. dilland 5100
Alpha Code: County	y: MIDDLESEX State: MA
Number of UTM's: 0	Zone/Easting/Northing
TP/00/New Languages and Advantages	THE SOUTHWARE STORES OF STATE
	Treatthing Responsibilities (To
Significance	LIEU TIO STORESSET STEEL TO
NR Status: ENTERED - DOG	CUMENTED Date: 10/18/85
Significance: NATIONAL	
NHL: YES Significance	Date: 12/22/77
	, IN PART TO SERVE AS FEEDER FOR A NEW POWER CANAL - THE
MERRIMACK: INTENDED TO USE ENTIRE 30' HEA	AD TO POWER WATERWHEELS OF NEWLY-CHARTERED MERRIMACK MFG.
CO.; LATER, SUPPLIED LOWELL MFG. CO., BOX	TT MILLS.
Historical Information-	TABLES STAR AND AND AND THE SECOND
Period of Construction: HISTO	DIC
Period of Construction: Histor	RICsaphara fau Latu dos regulialità 10 am
Date: 1822-1823 (BU) Designer	
Date: - () Designer Date: - () Designer	:
Date: - () Designer	EEOGLEG. JAMES
Functions, Uses, Materials	, Impacts, and Condition—
Historic Functions	Current Uses
CANAL	CANAL
UTILITY SERVICE STRUCTURE	UTILITY SERVICE STRUCTURE
	그러워 그 그 그 사람들은 그는 이 사람들이 되었다.
BuildingsMa	aterials——Structures—
Foundation:	Sub-structure: GRANITE
Framing:	
Walls:	Cunor structure. CDANITE
Roof: Other:	Super-structure: GRANITE CONCRETE
Volume:	#6/02/10 the property contains a ter
Description	
	E TOWARD MERRIMACK RIVER; 3400' LONG (INCL. WASTEWAY), 8 F STONE WALLS ALTERED, REPLACED W/ CONCRETE; HANDRAILS VARY
FROM WD. PICKET FENCE TO STEEL BRIDGE RAI	
Towns of Town 1: WODERN Town	TO ST. MINIST CONDICENTAL DESCRIPTION
Impact Level: MODERATE Im	pact Types: STRUCTURAL DETERIORATION INUNDATION (FLOODING)

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name Number

40576 LOWE MERRIMACK CANAL

MERMACK

-Management Information—

Federal Owner:

NPS Legal Interest: NONE - PRIVATELY OWNED Life: Exp. Date: / / Local Owner: BH

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMET. Exp. Date: 04/03/96

Proposed Ultimate Treat:

Doc:

Date:

Approved Ultimate Treat: PRESERVATION Doc: GMP

Date: 08/00/81

Treatment Responsibilities

Treatment Costs

Interim Treatment: OTH Ultimate Treatment: OTH

Interim: Ultimate: Date:

Routine Maintenance: OTH Level of Estimate:

\$0 Date:

Cyclic Maintenance: OTH

Estimator:

Approved Ultimate Treatment Completed: YES

LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS CANAL WALLS/FLOOR; NPS SHARES MAINT. RESPONSIBILITIES W/ STATE ALONG CANALWAY.

-Major Bibliographical References-

Nat. Reg.: 78003149

CSI:

Nat. Cat: NO

HABS:

BRIDGES:

HAER: MA-3

DAMS: QTRS:

CLI

CRBIB

Other

HRS 1. 010385 HS ASSESS 2. 400107

1. 400101 MALONE, CANALS & IND.

1. 2.

2. 010390 GMP

3.

HSR 3.

3. 4.

4.

CLR 4. 5. 400108

Documentation Level: GOOD

Date Entered/Updated: 07/20/94

Logger: JIG

Date of Report: 04/04/95

page 2 of 2



Structure No. MERMACK IDLCS: 40576

MERRIMACK CANAL

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.984

Historic Name: Merrimack Canal Sluice Gate

Common Name: Merrimack Dam

Merrimack Canal

Address: off French St, opposite Larcom, Lucy Park

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: 1962

Architect(s): Gilbert, Perley F. Associates

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Archaeology, Historic; Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Thursday, November 7, 2019 at 3:44: PM

LOW.984
LOWELL CULTURAL RESOURCES INVENTORY (BC) NOS 615778
BE) LUIS 1213/63

(C) NH	
3) CURRENT NAME Sluice gate 4) PROPERTY TYPE canal structure 5) ZONING CLASSIFICAT 6) TAXES: PAYMENTS current STATUS clear 7) WITHIN BOUNDARIES OF LNHP Locks and Canals HD LHPD HISTORICAL ABSTRACT 1) CONSTRUCTION DATE 1962 SOURCE documented: Lower Merrimack River ValleyInventory, p. 2) ARCHITECT OR BUILDER unknown 3) HISTORIC OWNER Proprietors of Locks and Canals 4) ORIGINAL USE: GF canal regulation UF n/a 5) PREVIOUS BLDGS ON PROPERTY yes DATE 1835-1962	ER OCCUPIEDyes
3) CURRENT NAME Sluice gate 4) PROPERTY TYPE canal structure 5) ZONING CLASSIFICAT 6) TAXES: PAYMENTS current STATUS clear 7) WITHIN BOUNDARIES OF LNHP Locks and Canals HD LHPD HISTORICAL ABSTRACT 1) CONSTRUCTION DATE 1962 SOURCE documented: Lower Merrimack River ValleyInventory, p. 2) ARCHITECT OR BUILDER unknown 3) HISTORIC OWNER Proprietors of Locks and Canals 4) ORIGINAL USE: GF canal regulation UF n/a 5) PREVIOUS BLDGS ON PROPERTY yes DATE 1835-1962	15-81,3/76
4) PROPERTY TYPEcanal structure	10:15
6) TAXES: PAYMENTS current STATUS clear 7) WITHIN BOUNDARIES OF LNHP Locks and Canals HD LHPD HISTORICAL ABSTRACT 1) CONSTRUCTION DATE 1962 SOURCE documented: Lower Merrimack River ValleyInventory, p. 2) ARCHITECT OR BUILDER unknown 3) HISTORIC OWNER Proprietors of Locks and Canals 4) ORIGINAL USE: GF canal regulation UF n/a 5) PREVIOUS BLDGS ON PROPERTY ves DATE 1835-1962	ION A-B2
7) WITHIN BOUNDARIES OFLNHP Locks and Canals HD LHPD HISTORICAL ABSTRACT 1) CONSTRUCTION DATE	
1) CONSTRUCTION DATE 1962 SOURCE documented: Lower Merrimack River ValleyInventory, p. 2) ARCHITECT OR BUILDER unknown 3) HISTORIC OWNER Proprietors of Locks and Canals 4) ORIGINAL USE: GF canal regulation UF n/a 5) PREVIOUS BLDGS ON PROPERTY yes DATE 1835-1962	
1) CONSTRUCTION DATE 1962 SOURCE documented: Lower Merrimack River ValleyInventory, p. 2) ARCHITECT OR BUILDER unknown 3) HISTORIC OWNER Proprietors of Locks and Canals 4) ORIGINAL USE: GF canal regulation UF n/a 5) PREVIOUS BLDGS ON PROPERTY yes DATE 1835-1962	
SOURCE documented: Lower Merrimack River ValleyInventory, p. 2) ARCHITECT OR BUILDER unknown 3) HISTORIC OWNER Proprietors of Locks and Canals 4) ORIGINAL USE: GF canal regulation UF n/a 5) PREVIOUS BLDGS ON PROPERTY ves DATE 1835-1962	
2) ARCHITECT OR BUILDER unknown 3) HISTORIC OWNER Proprietors of Locks and Canals 4) ORIGINAL USE: GF canal regulation UF n/a 5) PREVIOUS BLDGS ON PROPERTY ves DATE 1835-1962	73
3) HISTORIC OWNER Proprietors of Locks and Canals 4) ORIGINAL USE: GF canal regulation UF n/a 5) PREVIOUS BLDGS ON PROPERTY yes DATE 1835-1962	
4) ORIGINAL USE: GF <u>canal regulation</u> UF <u>n/a</u> 5) PREVIOUS BLDGS ON PROPERTY <u>ves</u> DATE <u>1835-1962</u>	
5) PREVIOUS BLDGS ON PROPERTY ves DATE 1835-1962	
DESCRIPTIVE DATA 1) ARCHITECTURAL STYLE	ctober 1979
UF n/a	
3) NO OF STORIES_n/a	11
4) PROP SQ FT n/a	A THE
5) PLAN	MS
6) ROOF <u>n/a</u>	
7) STRUCTURAL SYSTEM wood frame	
8) OUTBUILDINGS	T
none	
9) MATERIALS:	
FOUNDATION	
concrete	
FACADEwooden gate, metal controls	
TRIMn/a	

 CC_{\sim}

ADDI	RESS	MERR:	IMACK	CANAL	, off FRENCH	STRE	ET opposite LUCY LARCOM PARK	
		•						
		ASSES						
1)	CONDI	TION O	F Can	ADX NO.	Tatus		needs major repair	
2)	IF DE	ETERIOR	ATED,	CAUSES	3		vandalism ?	
3)	INTE	GRITY O	F HIS	TORIC 1	BLDG FABRIC:	GF_	n/a	
						UF	n/a	
4)	SURRO	DUNDING	LAND	USES	canal fron commercial	tage,	ustrial, institutional, railroad	
5)	INTE	GRITY O	F PRO	P'S HI	ST SETTING _	sev	verely disrupted historic setting	
6)	TMPOT	TANCE	OF PR	ר דים	HIST SETTING	COT	patible with character	

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

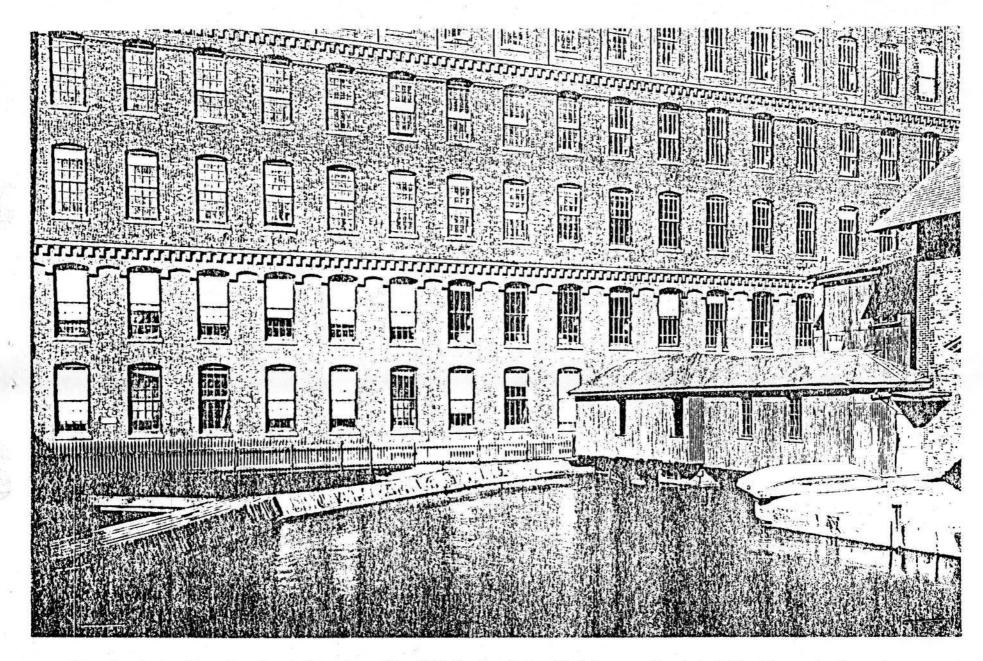
A dam was built near this site in 1835, as part of the coordination of the Merrimack Canal with the new Eastern Canal. The attached figure shows the building atop that dam (right), beside Merrimack Mill #2. The dam was destroyed in 1962, along with the rest of the Merrimack millyard. The present concrete sluiceway and sluice gate was constructed at that time. The control mechanisms appear to be intact, but the gate itself presently consists only of an open frame.

Source

Lower Merrimack...Inventory, HAER and MVTM, p. 73.

ARCHEOLOGICAL COMMENT

Elements of the 1835 Merrimack Dam may survive below ground near the present sluice gate, if the 1962 demolition was not complete.



"Merrimack Canal at Merrimack Dam, Apr. 12, 1926." U. of Lowell Library, Special Collections, Locks and Canals photo #2179.

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

Identification		
IDLCS: 40608	Structure N	umber: MER.DAM
Structure Name 1: MERRI Structure Name 2: MERRI Structure Name 3:		
Park Alpha Code: LOWE ORGCODE: 1780 (Re Subunit ORGCODE:	Name: LOWELL NATIONAL County: MIDDLESEX egional Office: NORTH AT Name:	State: MA
	county: MIDDLESEX	State: MA
Number of UTM's:	0 Zone/Easting,	/Northing
	deles v resten	
Significance	Strain HT's	(Inection) Plants
NR Status: ENTERED Significance: NATIONAL		Date: 10/18/85
NHL: YES Significance	signor memment fougle	Date: 12/22/77
A DAM WAS BUILT NEAR THIS SITE IN CANAL. DESTROYED & REPLACED W/ F	1835, TO HELP COORDINATE THE MERRIMAC RESENT CONC. SLUICEWAY & GATE, 1962.	CK CANAL W/ THE NEW EASTERN
Historical Information	- 38A72 (c. 831.1)	See Control and August Milys Res Co.
Period of Construction: F	IISTORIC	
Date: - () Desi	gner:PERLEY F. GILBERT gner: gner: gner:	ASSOC. (A)
Functions, Uses, Mater	rials, Impacts, and Cond	dition
Historic Functions DAM - CONCRETE (GRAVITY UTILITY SERVICE STRUCTU		Jses NCRETE (GRAVITY) SERVICE STRUCTURE
-Buildings-	MaterialsStructu	ıres—
Foundation: Framing: Walls:	Sub-struct	ture: CONCRETE
Roof: Other: Volume: Description		ture: CONCRETE STEEL WOOD
CONCRETE GRAVITY-TYPE DAM LOC'D.	OFF FRENCH ST., OPP. LUCY LARCOM PARK; RAIL. PRESENT SLUICE GATE ESSENTIALLY	
Impact Level: MODERAT	TE Impact Types: STRUCT	
Condition: POOR	s to s again Bio. Di	EGRADATION (MOLD)

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name Number 40608 LOWE MERRIMACK DAM MER.DAM -Management Information----NPS Legal Interest: NONE - PRIVATELY OWNED Life: Exp. Date: / / Federal Owner: Local Owner: BH Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANDUME. Exp. Date: 04/03/96 Proposed Ultimate Treat: Doc: Date: Date: 08/00/81 Approved Ultimate Treat: PRESERVATION Doc: GMP Treatment Responsibilities Treatment Costs Interim Treatment: OTH Interim: Ultimate Treatment: OTH Ultimate: Routine Maintenance: OTH Level of Estimate: Cyclic Maintenance: OTH Estimator: Interim: Ultimate: \$0 Date: \$0 Date: Approved Ultimate Treatment Completed: NO LOWELL LOCKS & CANALS HISTORIC DISTRICT. NPS DAM #141. BOOTT HYDRO MAINTAINS CANAL WALLS & FLOOR; NPS SHARES GROUNDS MAINT. RESPONSIBILITIES W/ STATE. -Major Bibliographical References— Nat. Reg.: 78003149 CSI: Nat. Cat: NO BRIDGES: HABS: DAMS: MA HAER: MA-3-A QTRS: CLI CRBIB Other HRS 1. 010385 HS ASSESS 2. 400107 HSR 3. 1. 400101 MALONE, CANALS & IND. 2. 010390 GMP 1. 3. 3. CLR 4. 4. 4. 5. 400108

Date of Report: 04/04/95

Logger: JIG

Documentation Level: FAIR

Date Entered/Updated: 07/20/94

(0.10%) NCTFAGAMENTO .OTM page 2 of 2



Structure No. MER.DAM IDLCS: 40608

MERRIMACK DAM

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.934

Historic Name: Moody Street Feeder

Common Name:

Address: Moody St

Beneath Moody St from Western to Merrimack Canal

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: 1848

Architect(s): Francis, James B.

Architectural Style(s):

Use(s): Other Industrial

Significance: Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Thursday, November 7, 2019 at 9:49: AM

LOWELL CULTURAL RESOURCES INVENTORY

BC NROIS-615/78 C NROIS-615/78 NHL 12/22/77

CANAL

IDENTIFICATION	Beneath MOODY STR	EET, from WESTE	RN to MERRIMACK	MAP SHEET # 7_
				OWNER OCCUPIED yes
2) HISTORIC NAME	Moody Street Feed	er	BE	UND 12/13/18
3) CURRENT NAME				7
4) PROPERTY TYPE	canal structure) ZONING CLASS	IFICATION B1, B3, M3
6) TAXES: PAYMENT	current	5	TATUSclear	
	RIES OF LNHP, LH			
*			8	
HISTORICAL ABS	TRACT			
1) CONSTRUCTION I	DATE1848			
SOURCE	documented:	Research Repo	rt	
2) ARCHITECT OR I	BUILDER James B. Fr	ancis		
3) HISTORIC OWNER	R Proprietors	of Locks and C	anals	
4) ORIGINAL USE:	GF feeder	UF	n/a	
5) PREVIOUS BLDGS	ON PROPERTY no	DATE		
SOURCE	a a			,
-	8		N .	
DESCRIPTIVE DA	TA T			
1) ARCHITECTURAL	= 8	W FROM west	PHOTO TA	AKEN October 1979
2) PRESENT USE:	No.	a ²⁵	237171	•
	्रक्र के जिल्ला को जो जिल्ला का को जो जा कर को जो जा कर को जो जा कर की जो जा कर की जो जा कर की जो जा कर की जो ज जिल्ला के किस्ता के किस्ता के किस्ता के किस्ता की जो	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Y
GFfe		11111	1 3 1	
UFn/	-			
3) NO OF STORIES	V 33453			
4) PROP SQ FT				
5) PLAN	1000		1, 1,	
6) ROOF	10.3			
7) STRUCTURAL SYS			2	
load-bearing	masonry		A. A. C.	
8) OUTBUILDINGS				
Merrimack Gate	House		3	1 2 2 2
9) MATERIALS:	2	7	1) X	
FOUNDATION		8. 2 . N.		
granite as	hlar			
FACADE rock-f	aced granite			
TRIM n/a				
10) NOTABLE SURFAC	CE & LANDSCAPE ELEM	ENTS none		

VISUAL ASSESSMENT

1)	CONDITION OF BUILDING FABRIC	good
2)	IF DETERIORATED, CAUSES	n/a
3)	INTEGRITY OF HISTORIC BLDG FABRIC: GF. UF	
4)	SURROUNDING LAND USES commercial,	residential, institutional, canal frontage
5)	INTEGRITY OF PROP'S HIST SETTING	severely disrupted historic setting
61	TMBODTANCE OF BROD TO HIST SETTING	compatible with character

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

See Research Report, page 14.

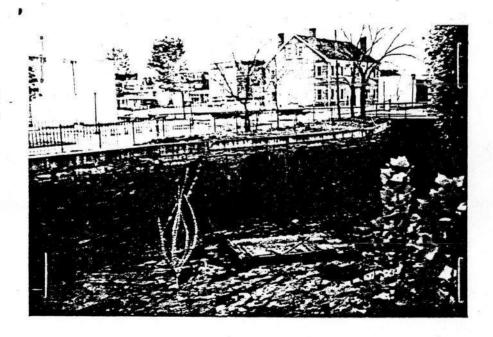
The Moody Street Feeder is a key part of the Northern Canal project. Completed by 1848 and opened in 1849, the Feeder delivered Northern Canal water (via the Western Canal) to the Merrimack Manufacturing Company on the Merrimack Canal. Indirectly, the Feeder also increased the Eastern Canal's supply, via the Boott penstock off the augmented Merrimack Canal.

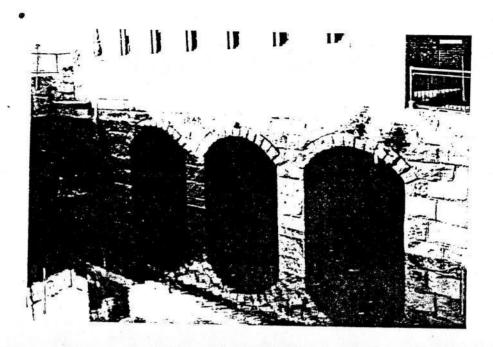
The Feeder is 1,418 feet long, ten feet high, and thirty feet wide. The width is divided into three archways that extend the length of the canal. The walls of those archways are granite ashlar, the segmental arches are of brick. The Merrimack Gatehouse at the eastern end of the Feeder regulates its flow.

ARCHEOLOGICAL COMMENT

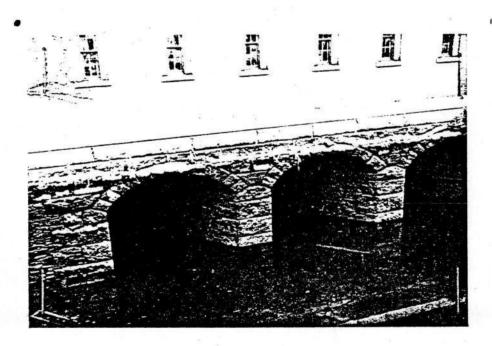
Not applicable.

View from the north of the Western Canal head of the Moody Street Feeder.
Photo taken in October 1979.





View of the arches at the tail of the Moody Street Feeder, where it empties into the Merrimack Canal beneath the Merrimack Gate House. Photo taken in November 1979.



Detail of the arches beneath the Merrimack Gate House. The Feeder extends toward the Canal perpendicularly, but the final arches meet the Canal at an acute angle, to reduce the turbulence of the merging courses of water. Photograph taken in Novermber 1979.

1. NAME OF STRUCTURE Moody Street Feeder	HAER	2. DATE 3. NATURE OF STR 1848 Feeder		INDUSTRIAL CLASSIFICATION 812	
5. LOCATION: STREET & NUMBER		CITY OR TOWN COUNTY	10.0	ATE	
parallel to Moody St.	between Suffolk & Dutto	on Sts Lowell - Midd	llesex	MA 6. USGS QUAD MAP	& UTM GRID REF.
	and Canals, Boott Mill		1	A STATE OF THE PARTY OF THE PAR	724 10
8. CONDITION: X EXCELLENT	GOOD FAIR	DETERIORATED RUI			CESSIBLE TO PUBLIC
		MENSIONS; FABRIC; STRUCTURE & FORM		TINGS AND	
The same and the s		SINEER/ ARCHITECT/DESIGNER; IMPORTA			
		of the Northern Canal proj			
		from the upper Western (ne Merrimack Mfg. Co. 7			Control of the Control of the Party of the Control
[[18] [[18] 18 18 18 18 18 [[18] 18 18 18 [[18] 18 18 18 18 18 18 18 18 18 18 18 18 18		astern Canal with water,		B TIN BERTHAM (COMPLETE STANCE) - (-) - (-	1.00 (40) TO PER (2011) 1 M (10) 4 (10) 1 (
	er is 4.375 feet long ar	ed 30 feet in width, and 🕻 fe	eet in height. The	teeder is divide	d into three
		ed 30 feet in width, and 2 fe piers for three arches, w			
parts by two longitud		piers for three arches, w			
parts by two longitud	nal walls, forming the	piers for three arches, w			
parts by two longitud	nal walls, forming the	piers for three arches, w			
parts by two longitud	nal walls, forming the	piers for three arches, w			
parts by two longitud	nal walls, forming the rick. The piers and sid	piers for three arches, w			
parts by two longitude arches are made of be 10. PHOTOGRAPHS & SKETCH MAP OF 11. RELATED SOURCES OF INFORMA	nal walls, forming the pick. The piers and side of the piers of the p	piers for three arches, we lewalls are granite. ISHED ARTICLES, MANUSCRIPTS, REPORTS	hich close the cond	duit on top. The	
parts by two longitude arches are made of be arches are made of be 10. PHOTOGRAPHS & SKETCH MAP OF 11. RELATED SOURCES OF INFORMATION CONTACTS: (NAMES & ADDRESSE)	nal walls, forming the rick. The piers and sidents and sidents are reverse side. Tion: Historical references (PUBL S OF ANYONE WITH EYE-WITNESS ACC	piers for three arches, w lewalls are granite.	hich close the cond	duit on top. The	
parts by two longitudes arches are made of be arches are made of be 10. PHOTOGRAPHS & SKETCH MAP OF 11. RELATED SOURCES OF INFORMATION CONTACTS: (NAMES & ADDRESSE) U. S. Census of 1880	nal walls, forming the rick. The piers and side of the piers of the piers are the piers are the piers of the piers are the piers and side of the piers are the pie	piers for three arches, wilewalls are granite. ISHED ARTICLES, MANUSCRIPTS, REPORTS COUNTS OR RELEVANT INFORMATION); TA	hich close the cond	duit on top. The	
parts by two longitudes arches are made of be arches are made of be 10. PHOTOGRAPHS & SKETCH MAP OF 11. RELATED SOURCES OF INFORMAT CONTACTS: (NAMES & ADDRESSE U. S. Census of 1880 P. M. Malone, The Potential Contacts)	nal walls, forming the rick. The piers and side of the reverse side. Ton: Historical references (PUBLS OF ANYONE WITH EYE-WITNESS ACTION), vol. XVI wer Canals of Lowell,	piers for three arches, will be also are granite. ISHED ARTICLES, MANUSCRIPTS, REPORTS COUNTS OR RELEVANT INFORMATION); TA	hich close the cond	c RECORDS)	
parts by two longitude arches are made of be 10. PHOTOGRAPHS & SKETCH MAP OF 11. RELATED SOURCES OF INFORMAT CONTACTS: (NAMES & ADDRESSE U. S. Census of 1880 P. M. Malone, The Po	nal walls, forming the rick. The piers and side of the reverse side. Ton: Historical references (PUBLS OF ANYONE WITH EYE-WITNESS ACTION), vol. XVI wer Canals of Lowell,	piers for three arches, wilewalls are granite. ISHED ARTICLES, MANUSCRIPTS, REPORTS COUNTS OR RELEVANT INFORMATION); TA	hich close the cond	c RECORDS)	
parts by two longitudes arches are made of be arches are made of be 10. PHOTOGRAPHS & SKETCH MAP OF 11. RELATED SOURCES OF INFORMAT CONTACTS: (NAMES & ADDRESSE U. S. Census of 1880 P. M. Malone, The Potential Contacts)	nal walls, forming the rick. The piers and side of the reverse side. Ton: Historical references (PUBLS OF ANYONE WITH EYE-WITNESS ACC.), vol. XVI wer Canals of Lowell, anager, Proprietors of	piers for three arches, will be also are granite. ISHED ARTICLES, MANUSCRIPTS, REPORTS COUNTS OR RELEVANT INFORMATION); TA	hich close the cond	c RECORDS)	
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parts by two longitudes arches are made of be arches are made of be 10. PHOTOGRAPHS & SKETCH MAP OF 11. RELATED SOURCES OF INFORMATION CONTACTS: (NAMES & ADDRESSE U. S. Census of 1880 P. M. Malone, The Potential Mr. Mel Lesberg, Mr. Mel Lesberg	nal walls, forming the rick. The piers and side of the reverse side. Ton: HISTORICAL REFERENCES (PUBLIS OF ANYONE WITH EYE-WITNESS ACT), vol. XVI wer Canals of Lowell, anager, Proprietors of the rick of the ri	piers for three arches, where we have a granite. ISHED ARTICLES, MANUSCRIPTS, REPORTS COUNTS OR RELEVANT INFORMATION); TARE MA (GPO, 1974) Locks and Canals, Boott	S, DRAWINGS, PHOTO GRAPHICAPE RECORDINGS. Mills, Lowell, Ma	C RECORDS)	segmented Samula CIB ASOLO

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LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

Identification
IDLCS: 40578 Structure Number: MSTFC
Structure Name 1: MOODY STREET FEEDER Structure Name 2: Structure Name 3:
Park Alpha Code: LOWE ORGCODE: 1780 Regional Office: NORTH ATLANTIC Subunit ORGCODE: Name: Name: Name: LOWELL NATIONAL HISTORICAL PARK State: MA Regional Office: NORTH ATLANTIC
Subunit ORGCODE: Name: Alpha Code: County: MIDDLESEX State: MA
Number of UTM's: 0 Zone/Easting/Northing
Significance-
NR Status: ENTERED - DOCUMENTED Date: 10/18/85
Significance: NATIONAL NHL: YES Date: 12/22/77
Significance DESIGNED BY ENGR. JAMES B. FRANCIS. KEY PART OF NORTHERN CANAL PROJECT; INCREASED AVAIL. WATER POWER. DELIVERED NORTHERN CANAL WATER (VIA WESTERN CANAL) TO MERRIMACK MFG. CO. ON MERRIMACK CANAL & INCREASED EASTERN CANAL'S SUPPLY VIA BOOTT PENSTOCK. ——Historical Information—
Period of Construction: HISTORIC
Date: 1848- (BU) Designer: () Date: - () Designer: () Date: - () Designer: () Date: - () Designer: ()
Functions, Uses, Materials, Impacts, and Condition
Historic Functions Current Uses CANAL TUNNEL CANAL TUNNEL UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE
Buildings——Materials——Structures—
Foundation: Sub-structure: GRANITE Framing: Walls:
Roof: Super-structure: GRANITE BRICK
Volume: Description
VAULTED BRICK & GRANITE CONDUIT (BUILT IN CONJ. W/ NORTHERN CANAL PROJ.), REGULATED AT GATE HOUSE (E END), RUNS UNDER MOODY STREET. THREE 10'x10' WIDE VAULT BAYS EXTEND ENTIRE 1418' LENGTH, MEETING MERRIMACK CANAL AT ANGLE TO REDUCE TURBULENCE.
Impact Level: MODERATE Impact Types: STRUCTURAL DETERIORATION INUNDATION (FLOODING) Condition: UNKNOWN

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name Number

LOWE MOODY STREET FEEDER 40578

MSTFC

-Management Information-

NPS Legal Interest: NONE - PRIVATELY OWNED Life:

Federal Owner:

Exp. Date: / / Local Owner: BH

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANDUM. Exp. Date: 04/03/96

Proposed Ultimate Treat:

Doc:

Approved Ultimate Treat: PRESERVATION Doc: GMP

Date: / / Date: 08/00/81

Treatment Responsibilities

Treatment Costs

Interim Treatment: OTH Interim:
Ultimate Treatment: OTH Ultimate:
Routine Maintenance: OTH Level of Estimate:
Cyclic Maintenance: OTH Estimator:

\$0 Date: /
\$0 Date: /

Approved Ultimate Treatment Completed: YES

Management Text

LOWELL LOCKS & CANALS HISTORIC DISTRICT. NPS DAM #147. BOOTT HYDRO MAINTAINS CANAL WALLS/FLOOR.

-Major Bibliographical References-

Nat. Reg.: 78003149

CSI:

Nat. Cat: NO

HABS:

BRIDGES:

HAER: MA-9

DAMS: MA82901

QTRS:

CLI

CRBIB

Other

1.

HRS 1. 010385

1. 400101 MALONE, CANALS & IND.

2.

HS ASSESS 2. 400107

2. 010390 GMP

3.

HSR 3. 400106

3.

4.

CLR 4.

5. 400108

Documentation Level: FAIR

Date Entered/Updated: 07/20/94

Logger: JIG

Date of Report: 04/04/95

page 2 of 2



Structure No. MSTFC IDLCS: 40578

MOODY STREET FEEDER

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.9018

Historic Name: Northern Canal - Little Canada Reach

Common Name:

Address: Northern Canal

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: c 1846

Architect(s): Francis, James B.

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

Designation(s): Landmark (12/22/1977); Nat'l Register District (06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):

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Massachusetts Historical Commission
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www.sec.state.ma.us/mhc

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Digital Photo Not Yet Available

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

Identification	
IDLCS: 40579	Structure Number: NOR.LCR
Structure Name 1: NORTHERN CANAL Structure Name 2: Structure Name 3:	- LITTLE CANADA REACH
ORGCODE: 1780 County: MID	TELL NATIONAL HISTORICAL PARK DLESEX State: MA Tice: NORTH ATLANTIC
Alpha Code: County: MID	DLESEX State: MA
Number of UTM's: 0	Zone/Easting/Northing
Trratment Costs	Treatment Responsibilities -
Significance-	Interia Treatment: 070
NR Status: ENTERED - DOCUMENT	PED Date: 10/18/85
Significance: NATIONAL NHL: YES Significance	Date: 12/22/77
CONSULTING ENGR'S. BALDWIN & FRANCIS DEMONSTRATED A NEW (NORTHERN) CANAL ALONG RIVER; PLANS LED TO A CANAL PROJ. ACCLAIMED BY DAN'L. WEBSTER.	THAT NEW MILL POWERS COULD BE CREATED BY BUILDING COMPL. REORG'N. OF LOCKS & CANALS. NORTHERN
Historical Information—	YANDAND SETA STATE TO SEE HITTER DISSENSES STRANGTHON
Period of Construction: HISTORIC	
Date: 1846-1847 (BU) Designer: FRANC Date: - () Designer: Date: - () Designer: Date: - () Designer:	EIS, JAMES B., et.al. (E)
Functions, Uses, Materials, Impa	cts, and Condition-
Historic Functions CANAL UTILITY SERVICE STRUCTURE	Current Uses CANAL UTILITY SERVICE STRUCTURE
BuildingsMateria	ls——Structures—
Foundation: Framing: Walls: Roof: Other: Volume: Description	Sub-structure: GRANITE STONE OTHER Super-structure: GRANITE STONE GRANITE STONE OTHER
RUNS FROM MERRIMACK RIVER SE TO WESTERN CANAL. TO 90' WIDE. WALLS: GRANITE & HYDRAULIC CEMENT (AT N	OTAL NORTHERN CANAL 4373' LONG, (AVG.) 18' DEEP, JANNALANCIT AREA: ROUGH-COURSED ASHLAR; CONC.
Impact Level: MODERATE Impact T	Types: STRUCTURAL DETERIORATION INUNDATION (FLOODING) EROSION

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name

Number

40579 LOWE NORTHERN CANAL - LITTLE CANADA REACH NOR.LCR

-Management Information-

NPS Legal Interest: NONE - PRIVATELY OWNED

Federal Owner:

Local Owner: BH Life: Exp. Date: / /

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGNAT. Exp. Date: 04/03/96

Proposed Ultimate Treat:

Doc:

Date:

Approved Ultimate Treat: PRESERVATION Doc: GMP

Date: 08/00/81

Treatment Responsibilities

Treatment Costs

Interim Treatment: OTH Ultimate Treatment: OTH

Interim: Ultimate: Date:

Routine Maintenance: OTH Level of Estimate:

\$0 Date:

Cyclic Maintenance: OTH

Estimator:

Approved Ultimate Treatment Completed: YES

Management Text

LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS CANAL WALLS/FLOOR; NPS SHARES MAINTENANCE RESPONSIBILITIES W/ STATE ALONG CANALWAY.

-Major Bibliographical References-

Nat. Reg.: 78003149 CSI:

Nat. Cat: NO

HABS:

BRIDGES:

HAER: MA-8

DAMS:

QTRS:

CLT

CRBIB

Other

1.

HRS 1. 010385 HS ASSESS 2. 400107

1. 400101 MALONE, CANALS & IND.

2.

2. 010390 GMP

3.

HSR 3. 010625

4.

CLR 4.

3. 4.

5. 400108

Documentation Level: GOOD

Date Entered/Updated: 07/20/94

Logger: JIG

Date of Report: 04/04/95

page 2 of 2



Structure No. NOR.LCR

IDLCS: 40579

NORTHERN CANAL - LITTLE CANADA REACH

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.9019

Historic Name: Upper Pawtucket Canal - Mechanics Mills Reach

Common Name:

Address: Pawtucket Canal

City/Town: Lowell
Village/Neighborhood: Downtown

Local No:

Year Constructed: c 1792

Architect(s): Baldwin, Loammi; Tyng, D. A.

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Engineering; Industry; Transportation

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

Designation(s): Landmark (12/22/1977); Nat'l Register District (06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):

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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

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Digital Photo Not Yet Available NROW- 6/5/78 NATU 12/22/77



LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Identification---IDLCS: 40583 Structure Number: U.PAWMMR Structure Name 1: UPPER PAWTUCKET CANAL - MECHANICS MILLS REACH Structure Name 2: "OLD CANAL" Structure Name 3: oha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK
ORGCODE: 1780 County: MIDDLESEX State: MA
Regional Office: NORTH ATLANTIC Park Alpha Code: LOWE Subunit ORGCODE: Name: County: MIDDLESEX State: MA Alpha Code: Zone/Easting/Northing Number of UTM's: 0 -Significance-NR Status: ENTERED - DOCUMENTED
Significance: NATIONAL
NHL: YES Date: 10/18/85 Date: 12/22/77 Caro Treatment Comp Significance FIRST OF 6 MAJ. CANALS IN LOWELL. DESIGNED SOLELY FOR NAVIGATION, ESP. FOR TRANSPORTING LOGS & CUT TIMBER AROUND PANTUCKET FALLS, BUT FINANCIAL SUCCESS CUT SHORT BY COMPLETION OF MIDDLESEX CANAL, 1803. MODIFIED FOR SUBSEQ. POWER CANAL SYSTEM. -Historical Information-Period of Construction: HISTORIC Date: 1792-1796 (BU) Designer: BALDWIN, LOAMMI OR D. A. TYNG (?)
Date: 1806-1824 (AL) Designer:
Date: 1876-1902 (AL) Designer:
Date: 1902-1907 (AL) Designer: (0) -Functions, Uses, Materials, Impacts, and Condition-Historic Functions Current Uses CANAL CANAL

NAVIGATIONAL

UTILITY SERVICE STRUCTURE

UTILITY SERVICE STRUCTURE

CONCRETE

-Buildings-----Materials-----Structures-

Sub-structure: GRANITE Foundation: Framing:

Walls:

Super-structure: GRANITE Roof:

STONE Other:

CONCRETE Volume:

Description

RUNS FROM GUARD LOCKS, BELOW BROADWAY BRIDGE, TO SWAMP LOCKS; WESTERN, HAMILTON & MERRIMACK CANALS BRANCH OFF @ LOWER END. 4950' LONG, AVG. 90' WIDE, 9 1/2'-11 1/2' DEEP. TALL WALLS ARE COURSED ASHLAR @ N. POURED CONC. @ S.

Impact Level: MODERATE Impact Types: STRUCTURAL DETERIORATION

INUNDATION (FLOODING)

Condition: GOOD

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name Number 40583 LOWE UPPER PAWTUCKET CANAL - MECHANICS MILLS REACH U.PAWMMR

-Management Information-

NPS Legal Interest: NONE - PRIVATELY OWNED Federal Owner: \ Life: Exp. Date: / / Local Owner: L&C

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96

Proposed Ultimate Treat: Doc: Date: Approved Ultimate Treat: PRESERVATION Doc: GMP Date: 08/00/81

Treatment Costs Treatment Responsibilities

Interim Treatment: OTH Ultimate Treatment: OTH Interim: \$0 Date: Ultimate: \$0 Date: Routine Maintenance: OTH Level of Estimate:

Cyclic Maintenance: OTH Estimator:

Approved Ultimate Treatment Completed: YES

Management Text

LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS (BUT DOES NOT OWN) CANAL WALLS/FLOOR; NPS SHARES GROUNDS MAINT. RESPONSIBILITIES W/ STATE.

-Major Bibliographical References-

Nat. Reg.: 78003149 CSI: Nat. Cat: NO

HABS: BRIDGES: HAER: MA-2 DAMS:

QTRS:

CLT CRBIB Other

1. 1. 400101 MALONE, CANALS & IND.

HRS 1. 010385 HS ASSESS 2. 400107 HSR 3. 010625 2. 2. 010390 GMP

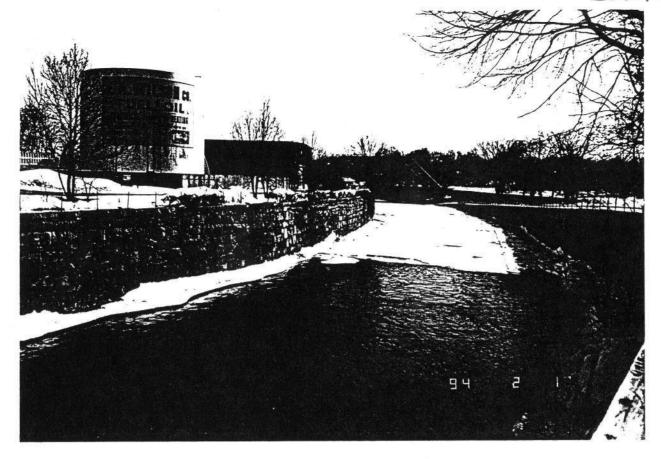
3. 3. 4. CLR 4.

5. 400108

Documentation Level: GOOD

Date Entered/Updated: 07/20/94 Logger: JIG

Date of Report: 04/04/95



Structure No. U.PAWMMR

IDLCS: 40583

UPPER PAWTUCKET CANAL - MECHANICS MILLS REACH

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.938

Historic Name: Upper Pawtucket Canal - Guard Locks Reach

Common Name:

Address: Upper Pawtucket Canl

City/Town: Lowell Village/Neighborhood: Acre

Local No:

Year Constructed: c 1792

Architect(s):

Architectural Style(s):

Use(s): Other Industrial; Other Transportation
Significance: Engineering; Industry; Transportation

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



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NROS 6/5778 NROS 8/13/76 LUTO 12/13/83 NHL- 12/22/77



LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Identification-

IDLCS: 40582

Structure Number: U.PAWGLR

Structure Name 1: UPPER PAWTUCKET CANAL - GUARD LOCKS REACH

Structure Name 2: "OLD CANAL"

Structure Name 3:

Park Alpha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK

ORGCODE: 1780 County: MIDDLESEX

State: MA

Regional Office: NORTH ATLANTIC Subunit ORGCODE:

Name:

Alpha Code: County: MIDDLESEX State: MA

Number of UTM's: 0

Zone/Easting/Northing

Significance-

NR Status: ENTERED - DOCUMENTED

Date: 10/18/85

Significance: NATIONAL

NHL: YES

Date: 12/22/77

Significance

FIRST OF 6 MAJ. CANALS IN LOWELL. DESIGNED SOLELY FOR NAVIGATION, ESP. FOR TRANSPORTING LOGS & CUT TIMBER AROUND PAWTUCKET FALLS, BUT FINANCIAL SUCCESS CUT SHORT BY COMPLETION OF MIDDLESEX CANAL, 1803. IMPROVED 1893-95 TO INCREASE WORKING CAPACITY.

-Historical Information-

Period of Construction: HISTORIC

Date: 1792-1796 (BU) Designer: Date: 1806-1824 (AL) Designer: Date: 1893-1895 (AL) Designer: Date: 1895-1902 (AL) Designer:

-Functions, Uses, Materials, Impacts, and Condition-

Historic Functions

Current Uses

CANAL

CANAL

NAVIGATIONAL

UTILITY SERVICE STRUCTURE

UTILITY SERVICE STRUCTURE

-Buildings-----Materials------Structures-

Foundation:

Sub-structure: EARTH

GRANITE

Framing: Walls:

CONCRETE

Roof:

Super-structure: GRANITE

STONE

Other: Volume:

CONCRETE

Description

OF ALL THE LOWELL CANALS, THIS SECTION OF THE PAWTUCKET - FROM THE MERRIMACK RIVER ABOVE PAWTUCKET FALLS TO GUARD LOCKS - REMAINS THE MOST "NATURAL" IN APPEARANCE. SLOPING WOODED BANKS, PRESENTLY OVERGROWN. STONE WALL SEGMENTS UNMAINTAINED.

Impact Level: MODERATE Impact Types: EROSION

VEGETATION

Condition: FAIR

INUNDATION (FLOODING)

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

·VIG

IDLCS Park Structure Name Number 40582 LOWE UPPER PAWTUCKET CANAL - GUARD LOCKS REACH U. PAWGLR -Management Information-NPS Legal Interest: NONE - PRIVATELY OWNED Federal Owner: Local Owner: L&C Life: Exp. Date: / Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96 Proposed Ultimate Treat: Doc: Date: Date: 08/00/81 Approved Ultimate Treat: PRESERVATION Doc: GMP Treatment Responsibilities Treatment Costs \$0 \$0 Interim Treatment: OTH Interim: Date: Ultimate Treatment: OTH Ultimate: Date: Routine Maintenance: OTH Level of Estimate: Cyclic Maintenance: OTH Estimator: Approved Ultimate Treatment Completed: YES Management Text LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS (BUT DOES NOT OWN) CANAL WALLS/FLOOR; NPS SHARES GROUNDS MAINT. RESPONSIBILITIES W/ STATE. DEFICIENCIES IN STONE WALL SEGMENTS NOTED DURING INSPECTION. -Major Bibliographical References-Nat. Cat: NO Nat. Reg.: 78003149 CSI: HABS: BRIDGES: HAER: MA-2 DAMS: QTRS: CLI CRBIB Other 1. HRS 1. 010385 1. 400101 MALONE, CANALS & IND. 2. HS ASSESS 2. 400107 2. 010390 GMP 3. HSR 3. 010625 3. CLR 4. 4. 5. 400108 Documentation Level: GOOD Date Entered/Updated: 07/20/94 Logger: JIG

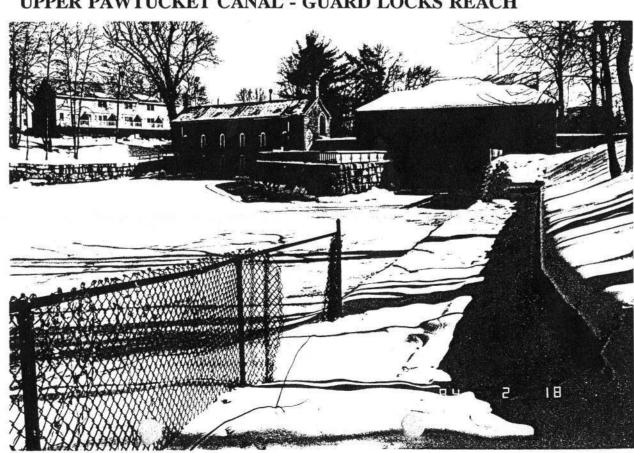
Date of Report: 04/04/95



Structure No. U.PAWGLR

IDLCS: 40582

UPPER PAWTUCKET CANAL - GUARD LOCKS REACH



Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.929

Historic Name: Lower Pawtucket Canal

Common Name: Old Canal

Address: Lower Pawtucket Canl

City/Town: Lowell Village/Neighborhood: Downtown

Local No:

Year Constructed: c 1792

Architect(s):

Architectural Style(s):

Other Industrial; Other Transportation; Other Water Use(s):

Related; Utilities Other

Significance: Engineering; Industry; Transportation

LOW.C: Locks and Canals District

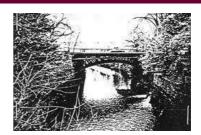
Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Designation(s): Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



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> Commonwealth of Massachusetts Massachusetts Historical Commission 220 Morrissey Boulevard, Boston, Massachusetts 02125 www.sec.state.ma.us/mhc

This file was accessed on: Thursday, November 7, 2019 at 9:33: AM

LOWELL CULTURAL RESOURCES INVENTORY

IDENTIFICATION	to the CONCORD RIVER r	lear EAST MERRIMAC	CK STREET MAP SHEET # 5,
1) CURRENT OWNER	Proprietors of Locks a	and Canals	OWNER OCCUPIED
2) HISTORIC NAME	Patucket or Pawtucket	Canal /	3E NO 12/13/8
) CURRENT NAME	Pawtucket Canal		
) PROPERTY TYPE	canal	5) ZONI	NG CLASSIFICATION Various
	current	STATUS	
	RIES OF LNHP, Locks an		¥
HISTORICAL ABS	TRACT	950	
	DATE 1792-6, 1822-4	8	
SOURCE docume			anal System, Malone.
2) ARCHITECT OR I			
[[[[[[[[[[[[[[[[[[[Locks and Canals	on the Merrimack River
4) ORIGINAL USE:	The state of the s	canal UF n/a	
	ON PROPERTY NO DA		
SOURCE	7		1
SOURCE			er e
DESCRIPTIVE DA		OM north	DUOTO TAKEN O-1-1 1070
1) ARCHITECTURAL		On	_PHOTO TAKEN October 1979
n/		e k	A CONTINUE OF THE PARTY OF THE
2) PRESENT USE:		rok.	
GF power can			
UF			Jan 1
3) NO OF STORIES			
4) PROP SQ FT			
5) PLAN			
6) ROOF	n/a		
7) STRUCTURAL SY:	7000001		
masonry and rei	nforced		
8) OUTBUILDINGS			
see following	forms		
9) MATERIALS:	The state of		
FOUNDATION n/	a		
FACADE as	shlar granite, rubble s	tone, reinforced	concrete
TRIM n/	a		
			oped as park at northern en

VISUAL ASSESSMENT	VI	SUAL	ASSESSMENT
-------------------	----	------	------------

<u>v +</u>	SOAL ASSESSMENT		
1)	CONDITION OF BUILDING FABRIC	good	
2)	IF DETERIORATED, CAUSES	n/a	
3)	INTEGRITY OF HISTORIC BLDG FABRIC:	GF_	intact with evolutionary alterations
		UF	n/a
4)	SURROUNDING LAND USES commercial,	presswa Industr	yalcanal frontage, river frontage, lastitutional
5)	INTEGRITY OF PROP'S HIST SETTING	moderat	ely disrupted historic setting
۲١	TAMODELNICE OF BROD TO HIST SETTING	focal	point in area

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

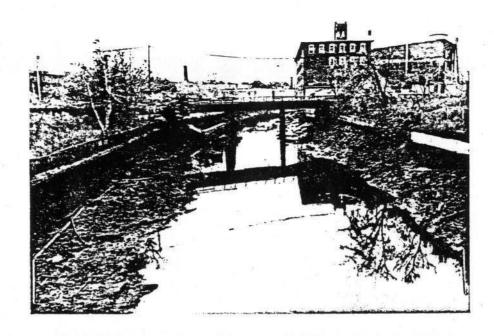
See Research Report, pages 1-3.

The Pawtucket Canal is a 9188 foot-long transportation and power canal that flows from the Merrimack River above the Pawtucket Falls, to the Concord River a few hundred yards above the confluence with the Merrimack River. The canal has three sets of locks—The Guard Locks, Swamp Locks, and Lower Locks—which accommodate a thirty—two foot difference in water level between the head of the canal on the Merrimack and the wasteway on the Concord. See the inventory forms on the individual sets of locks.

The Pawtucket varies from 80 to 100 feet in width, and averages eight feet deep. Its section is basically rectangular. Portions of its stone walls have been replaced with poured concrete.

ARCHEOLOGICAL COMMENT

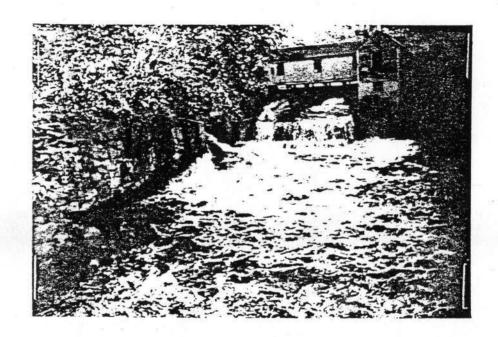
The 1820's widening of the Pawtucket Canal probably eradicated any remains of the canal's original fabric, including such features as the eliminated Minx Locks. The lengths of the canal between Broadway and School Streets, and above the Guard Locks have received less adjacent development than the lower portions, and possibly retain some traces of such early, canal-related features such as the towpath. The Middlesex Company near the Lower Locks was the only millyard to draw water for power directly from the Pawtucket, and filled-in penstocks and tailraces appear to survive beneath the surface of that razed yard.



View from Thorndike Street west along the Pawtucket, showing the canal with most of the water drawn off. Photo taken in October 1979.



View from the southwest of the Pawtucket Canal, at its junction with the Hamilton Canal (right). Photo taken in October 1979.



Pawtucket Canal passing through Swamp Locks. Photo taken in August 1979.

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Identification-Structure Number: LOW.PAWT **TDLCS: 40575** Structure Name 1: LOWER PAWTUCKET CANAL Structure Name 2: "OLD CANAL" Structure Name 3: Name: LOWELL NATIONAL HISTORICAL PARK Park Alpha Code: LOWE County: MIDDLESEX
Regional Office: NORTH ATLANTIC State: MA ORGCODE: 1780 Subunit ORGCODE: Name: County: MIDDLESEX State: MA Alpha Code: 0 Zone/Easting/Northing Number of UTM's: -Significance-NR Status: ENTERED - DOCUMENTED Significance: NATIONAL Date: 10/18/85 Date: 12/22/77 NHL: YES Significance BEGUN AS TRANSPORTATION CANAL AROUND MERRIMACK RIVER'S PAWTUCKET FALLS IN E. CHELMSFORD (LATER, LOWELL), 1792-1797; WOODEN NAVIGATION LOCKS BUILT AT GUARD, SWAMP & LOWER LOCKS. CANAL REBUILT 1822-24 TO SERVE AS POWER (AS WELL AS TRANSP.) CANAL. -Historical Information-Period of Construction: HISTORIC Date: 1792-1797 (BU) Designer: Date: 1822-1824 (AL) Designer: Date: 1910- (AL) Designer: (AL) Designer: Date:) Designer: -Functions, Uses, Materials, Impacts, and Condition-Historic Functions Current Uses CANAL CANAL UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE NAVIGATIONAL -Buildings-----Materials-----Structures-Sub-structure: GRANITE Foundation: CONCRETE Framing: Walls: Super-structure: GRANITE Roof: STONE Other: CONCRETE Volume: Description LOWER PAWTUCKET 2250' LONG, AVG. 8'-9' DEEP, 80'-100' WIDE; RUNS FROM SWAMP LOCKS TO CONCORD RIVER. SIGNIFICANTLY MODIFIED OVER THE COURSE OF A CENTURY OF CONTINUOUS USE. STONE, CONC. WALLS. 1910 CANAL DRAIN (24" PIPE) STILL IN USE. Impact Level: MODERATE Impact Types: STRUCTURAL DETERIORATION INUNDATION (FLOODING) Condition: GOOD

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name

Number

40575 LOWE LOWER PAWTUCKET CANAL

-Management Information----

NPS Legal Interest: NONE - PRIVATELY OWNED Federal Owner: L&C

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANDUM. Exp. Date: 04/03/96

Proposed Ultimate Treat: Doc: Date: Approved Ultimate Treat: PRESERVATION Doc: GMP Date: 0

Date: // Date: 08/00/81

Treatment Responsibilities

Treatment Costs

Interim Treatment: OTH

Interim:

\$0 Date: /

Ultimate Treatment: OTH Ultimate:
Routine Maintenance: OTH Level of Estimate:

\$0 Date:

Cyclic Maintenance: OTH Estimator:

Approved Ultimate Treatment Completed: YES PORTATION CHIMA AROUND NUMBERACK TEVER'S PARTHURE? FALLS IN E. DIEL

LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS (BUT DOES NOT OWN) PAWTUCKET CANAL WALLS/FLOORS; NPS SHARES MAINT. RESPONSIBILITIES W/ STATE ALONG CANALWAY.

-Major Bibliographical References-

Nat. Reg.: 78003149

CSI:

Nat. Cat: NO

HABS:

BRIDGES:

HAER: MA-2

DAMS:

doile of box ados QTRS: alette tem , asau caroldour

CLI

CRBIB

Other

1.

HRS 1. 010385

1. 400101 MALONE, CANALS & IND.

2.

HS ASSESS 2. 400107

2. 010390 GMP

3.

HSR 3. 010625

3.

4.

CLR 4.

4.

5. 400108

Documentation Level: GOOD

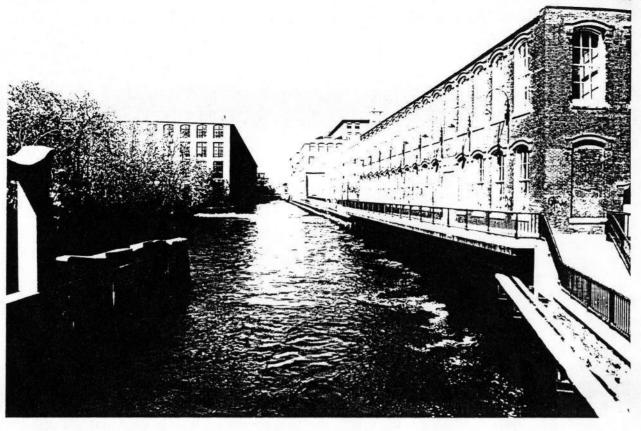
Date Entered/Updated: 07/20/94

Logger: JIG

Date of Report: 04/04/95

page 2 of 2

page 1 of 2



Structure No. LOW.PAWT IDLCS: 40575

LOWER PAWTUCKET CANAL

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.937

Historic Name: Pawtucket Dam

Common Name:

Address: Pawtucket Canal

Above School St

City/Town: Lowell

Village/Neighborhood: Acre

Local No:

Year Constructed: c 1826

Architect(s):

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Archaeology, Historic; Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic

Designation(s): Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983); Nat'l

Register DOE (10/26/2011)

Building Materials(s):



The Massachusetts Historical Commission (MHC) has converted this paper record to digital format as part of ongoing projects to scan records of the Inventory of Historic Assets of the Commonwealth and National Register of Historic Places nominations for Massachusetts. Efforts are ongoing and not all inventory or National Register records related to this resource may be available in digital format at this time.

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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Thursday, November 7, 2019 at 3:24: PM

LOWELL CULTURAL RESOURCES INVENTORY

BU	NRD15-615778
107-	NROIS 8/13/70
	NHL- 12/22/77
	NITL- 12/22/77

	ENTIFICATION _	MERRIMACK RIVER, above SCHOOL STREET	MAP SHEET # 5
1)	CURRENT OWNER	Proprietors of Locks and Canals	OWNER OCCUPIED no
2)	HISTORIC NAME	Pawtucket Dam BE	LHS 12/13/83
3)	CURRENT NAME	same	
4)	PROPERTY TYPE	river dam 5) ZONING CLASS	IFICATION M3, S2 .
6)	TAXES: PAYMENTS_	current STATUS clear	
7)	WITHIN BOUNDARIE	S OF LNHP, LHPD, Locks and Canals HD	
	#0 Th	v'	
HI	STORICAL ABSTR	ACT	
1)	CONSTRUCTION DAT	E 1846-7, 1875	
	SOURCE	documented: Research Report	
2)	ARCHITECT OR BUI	LDERunknown	
3)	HISTORIC OWNER _	Proprietors of Locks and Canals	
		waterpower dam UF n/a	
		N PROPERTY yes DATE 1826/1833-1846	
		documented: Lower Merrimack River	Inventory, page:80
			Y
חב	SCRIPTIVE DATA		
	ARCHITECTURAL ST		AVEN 0 . 1 1070
1)			AREN OCTOBER 1979
21	n/a PRESENT USE:	MA MEDI	
۷)		N N	f.
	GF dam		
21	UF n/a		
	NO OF STORIES n/		
	PROP SQ FTn/		GE:
	PLAN n/		
	ROOFn/		
1)	STRUCTURAL SYSTE		
2	load-bearing maso	mry	
0)	OUTBUILDINGS		5
•	none		
9)	MATERIALS:		
	FOUNDATION		
	granite ashl	ar	
	FACADE granite		
	TRIMn/a		
101	MOTARIE SUPEACE	s tampscape etements none	

VISUAL .	ASSESSMENT
----------	------------

\wedge T	SUAL ASSESSMENT	
1)	CONDITION OF BUILDING FABRIC	good
2)	IF DETERIORATED, CAUSES	n/a
3)	INTEGRITY OF HISTORIC BLDG FABRIC: (GFintact original fabric
	•	UFn/a
4)	SURROUNDING LAND USESresidential,	recreational, canal frontage, river frontage
5)	INTEGRITY OF PROP'S HIST SETTING	intact with minor intrusions and/or losses
6)	IMPORTANCE OF PROP TO HIST SETTING	focal point in area

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

See Research Report, pages 2, 3, 14 and 20.

The Proprietors of Locks and Canals built a wood and masonry dam across the Merrimack in 1826, to raise the level of water in the Pawtucket Canal. It was rebuilt in 1833, then more substantially in 1846-7, as part of the Northern Canal project. A major rebuilding in 1875 completed the dam as a masonry structure.

The dam follows the spine of the ledge of the Pawtucket Falls, resulting in a lengthy (1093.5 feet), somewhat jagged outline. The dam rests on granite blocks set into a trench. The core of the structure is granite rubble, set in hydraulic cement, while the face is of quarry-faced granite blocks.

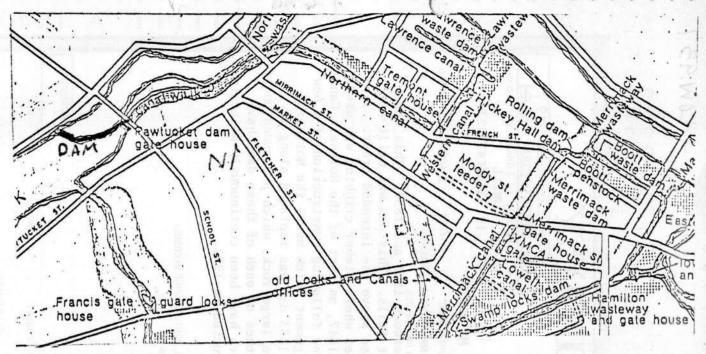
ARCHEOLOGICAL COMMENT

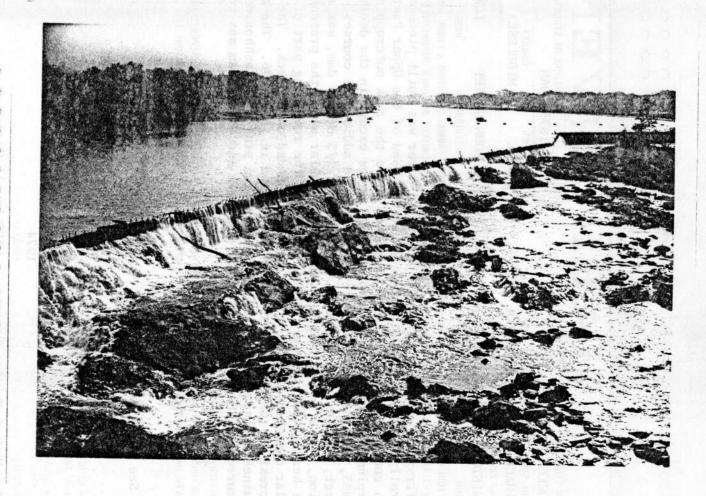
Not applicable.

View of the Pawtucket Dam and Falls from the northeast. Photo taken in October 1979.



LOW: 937





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PARTUR SURVEYS DATA DATA	98 PHOTOGRAPHS	THE REAL PROPERTY AND ADDRESS OF THE PERSONS ASSESSED.		STATES		Manufacture described in the
HA	ER	IN	VEN	TO	RY	
NAME OF STRUCTURE PAWTUCKET DAM	2.	DATE 3.	NATURE OF STRUCTUR	E 4.	INDUSTRIAL CLASSIFIC SPEC STRUC:HY	
LOCATION: STREET & NUMBER MERRIMACK RIVER ABOVE SCHOOL S		TY OR TOWN OWELL	COUNTY MIDDLESEX		والمرابط والأرابي المتراث والمرابع المرابع والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع	QUAD & UTM GRID REF.
OWNER OF PROPERTY PROPRIETORS OF THE LOCKS & CAN	NALS FOOT	OF JOHN STRI	EET LOWE	LL, MA 01852	19.3088	094724236
CONDITION: EXCELLENT XGOOD	FAIR	DETERIORATED	RUINS	UNEXPOSED	ALTERED X	ACCESSIBLE TO PUBLIC
underpinning mostly consisted	of natural re	age except	in the decrev	ICIES MHELE	THE CITOLI	ng was useu.
In 1833, this dam was raised 2 project, the easterly section, section, faced in bedrock four canal head gate at a right anguillar alignment also in granthe crest of the dam were cut contained colinear holes to he the current fishway, located a PHOTOGRAPHS & SKETCH MAP ON REVERSE SIDE.	2' by adding to approximate anded granite agle. In 1875, nite ashlar for down and cappold wrought in at the westerl	two additionary 1/3 of the ashlar along the remaining ounded on bedoed in 1875-1 on pins for all y end of the	al courses. e dam, was re the present ing part of t drock. The t 1876. The ca flashboards e dam was con	In 1847, as proved following alignment which have be structed in 1	part of the Noing construction meets the was replaced socks which proach of these een continuous	orthern Canal ion of a new Northern along a otruded above dams have
In 1833, this dam was raised 2 project, the easterly section, section, faced in bedrock four canal head gate at a right anguing a right anguillar alignment also in granthe crest of the dam were cut contained colinear holes to he the current fishway, located a	2' by adding to approximate anded granite agle. In 1875, nite ashlar for down and cappold wrought in at the wester!	two additionally 1/3 of the ashlar along the remaining ounded on bedue in 1875-1 on pins for any end of the particles, manuscopy and articles, manuscopy and articles, manuscopy and articles, manuscopy and articles, manuscopy a	al courses. e dam, was re the present ing part of t drock. The t 1876. The ca flashboards e dam was con GRIPTS. REPORTS, DRAW	In 1847, as proved following alignment which have be structed in 1	part of the Noing construction meets the was replaced socks which proach of these een continuous	orthern Canal ion of a new Northern along a otruded above dams have
In 1833, this dam was raised 2 project, the easterly section, section, faced in bedrock foun canal head gate at a right anguing a right anguillar alignment also in granthe crest of the dam were cut contained colinear holes to he to the current fishway, located a PHOTOGRAPHS & SKETCH MAP ON REVERSE SIDE. RELATED SOURCES OF INFORMATION: HISTORICAL RELATED SOURCES OF I	2' by adding to approximate anded granite agle. In 1875, nite ashlar for down and cappold wrought in at the wester!	two additionally 1/3 of the ashlar along the remaining ounded on bedue in 1875-1 on pins for any end of the particles, manuscopy and articles, manuscopy and articles, manuscopy and articles, manuscopy and articles, manuscopy a	al courses. e dam, was re the present ing part of t drock. The t 1876. The ca flashboards e dam was con GRIPTS. REPORTS, DRAW	In 1847, as proved following alignment which have be structed in 1	part of the Noing construction meets the was replaced socks which proach of these een continuous	orthern Canal ion of a new Northern along a otruded above dams have
In 1833, this dam was raised 2 project, the easterly section, section, faced in bedrock four canal head gate at a right angument also in granthe crest of the dam were cut contained colinear holes to he the current fishway, located a photographs & sketch map on reverse side. RELATED SOURCES OF INFORMATION: HISTORICAL RELATED SOURCES OF INFORMATION: HISTORICAL RECONTACTS: (NAMES & ADDRESSES OF ANYONE WITH See GREAT GATE.	2' by adding to approximate anded granite agle. In 1875, nite ashlar for down and cappold wrought in at the wester! REFERENCES (PUBLISHE I EYE-WITNESS ACCOUNTY)	two additionally 1/3 of the ashlar along the remaining ounded on bedue in 1875-1 on pins for any end of the particles, manuscopy and articles, manuscopy and articles, manuscopy and articles, manuscopy and articles, manuscopy a	al courses. e dam, was re the present ing part of t drock. The t 1876. The ca flashboards e dam was con GRIPTS. REPORTS, DRAW	In 1847, as proved following alignment which have be structed in 1	part of the Noing construction meets the was replaced socks which proach of these een continuous	orthern Canal ion of a new Northern along a otruded above dams have
In 1833, this dam was raised 2 project, the easterly section, section, faced in bedrock four canal head gate at a right and similar alignment also in granthe crest of the dam were cut contained colinear holes to he the current fishway, located a photographs & sketch map on reverse side. RELATED SOURCES OF INFORMATION: HISTORICAL RELATED SOURCES OF INFORMATION: HISTORICAL RELATED SOURCES OF ADDRESSES OF ANYONE WITH See GREAT GATE.	2' by adding to approximate anded granite agle. In 1875, nite ashlar for down and cappold wrought in at the wester! REFERENCES (PUBLISHE I EYE-WITNESS ACCOUNTY)	two additionally 1/3 of the ashlar along the remaining ounded on bedue in 1875-1 on pins for any end of the particles, manuscopy and articles, manuscopy and articles, manuscopy and articles, manuscopy and articles, manuscopy a	al courses. e dam, was re the present ing part of t drock. The t 1876. The ca flashboards e dam was con GRIPTS. REPORTS, DRAW	In 1847, as proved following alignment which have the structed in laws of the	part of the Noing construction meets the was replaced socks which proach of these een continuous	orthern Canal ion of a new Northern along a otruded above dams have sly maintained

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Identification— Structure Number: PAW.DAM IDLCS: 40610 Structure Name 1: PAWTUCKET DAM Structure Name 2: Structure Name 3: Name: LOWELL NATIONAL HISTORICAL PARK Park Alpha Code: LOWE ORGCODE: 1780 County: MIDDLESEX State: MA Regional Office: NORTH ATLANTIC Subunit ORGCODE: Name: County: MIDDLESEX State: MA Alpha Code: Zone/Easting/Northing Number of UTM's: -Significance-NR Status: ENTERED - DOCUMENTED Date: 10/18/85 Significance: NATIONAL NHL: YES Date: 12/22/77 Significance 1826-30 DAM REPLACED BOOTT'S CA. 1824 MAKESHIFT WINGDAM (ITSELF PROB. A RECONSTR'N.) FOR NEWLY-ENLARGED PAWTUCKET CANAL. PARTIALLY REBUILT (USING HYDR. CEMENT) CA. 1846 IN CONJ. W/ NORTHERN CANAL. BY 1852, PART OF EFFICIENT REGIONAL CONTROL SYSTEM. -Historical Information-Period of Construction: HISTORIC Date: 1826-1830 (BU) Designer: Date: 1830-1833 (AL) Designer: Date: 1846-1847 (AL) Designer: (AL) Designer: Date: 1875-(AL) Designer: -Functions, Uses, Materials, Impacts, and Condition-Historic Functions Current Uses DAM DAM UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE -Buildings-----Materials-----Structures-Sub-structure: GRANITE Foundation: CONCRETE Framing: Walls: Super-structure: WOOD Roof: IRON Other: GRANITE Volume: Description 1094'-LONG DAM FOLLOWS JAGGED OUTLINE; SITS ON SPINE OF PAWTUCKET FALLS LEDGE. RESTS ON GRANITE BLOCKS SET IN TRENCH. GRANITE RUBBLE CORE SET IN HYDRAULIC CEMENT; QUARRY-FACED GRANITE-BLOCK EXTERIOR. WD. FLASHBOARDS HELD IN PLACE W/ IRON PINS. Impact Level: SEVERE Impact Types: INUNDATION (FLOODING) STRUCTURAL DETERIORATION Condition: FAIR

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

Park Structure Name TDLCS Number 40610 LOWE PAWTUCKET DAM PAW. DAM -Management Information— NPS Legal Interest: NONE - LOCAL GOVERNMENT OWNED Federal Owner: Life: Exp. Date: / / Local Owner: MA/DEM Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96 Proposed Ultimate Treat: Doc: Approved Ultimate Treat: PRESERVATION Doc: GMP Proposed Ultimate Treat: Date: Date: 08/00/81 Treatment Responsibilities Treatment Costs Interim Treatment: OTH Interim: \$0 Date: Ultimate Treatment: OTH \$0 Ultimate: Date: Routine Maintenance: OTH Level of Estimate: Cyclic Maintenance: OTH Estimator: Approved Ultimate Treatment Completed: YES Management Text LOWELL LOCKS & CANALS HISTORIC DISTRICT. NPS DAM #130. -Major Bibliographical References-Nat. Reg.: 78003149 CSI: Nat. Cat: NO HABS: BRIDGES: HAER: MA-1-A DAMS: MA00837 QTRS: CLI CRBIB Other 1. HRS 1. 010385 1. 400101 MALONE, CANALS & IND. HS ASSESS 2. 400107 2. 2. 010390 GMP 3. HSR 3. 3. 0102344 WEIBLE, HRS PART 1 4. CLR 4. 4. 5. 400108 Documentation Level: GOOD Date Entered/Updated: 07/20/94 Logger: JIG

Date of Report: 04/04/95

page 2 of 2



Structure No. PAW.DAM IDLCS: 40610

PAWTUCKET DAM

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.73

Historic Name: Northern Canal Guard Gates Gatehouse

Common Name: Pawtucket Gate House

Address: 23 School St

City/Town: Lowell
Village/Neighborhood: Acre
Local No: 163, 269
Year Constructed: c 1847

Architect(s): Forbes, Franklin; Francis, James B.

Architectural Style(s): Italianate

Use(s): Other Water Related; Utilities Other
Significance: Architecture; Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Roof: Slate

Building Materials(s): Wall: Brick; Wood

Foundation: Granite; Stone, Cut



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Commonwealth of Massachusetts
Massachusetts Historical Commission
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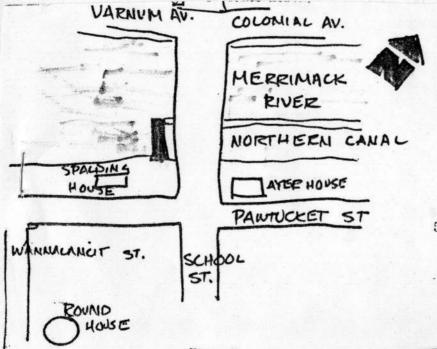
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FORM B - BUILDING

MASSACHUSETTS HISTORICAL COMMISSION 6.13.76
Office of the Secretary, State House, Boston



4. Map. Draw sketch of building location in relation to nearest cross streets and other buildings. Indicate north.



MHC Photo no.

NR/NHL

In Area no.

Form no.

Town	Lowell	LC	W.73
Address	School Stree		Acre
Name_	Northern Car	nal Gateho	ouse
Present	useindustr	ial B	- LHD
(9462	BC-NR	115. di	179 12/13
Present	owner Prop. of	f Locks &	Canals
Descript	ion:		432A 385
DateC	. 1848		
Source	e	coperan in	IBRUDGE O
Style_R	Romanesque	BO TINGHA I	SO MODELLE . (C
Architect	t = 1/2		
Exterior	wall fabric	brick	
Outbuildi	ngs (describe)	thatari es 25 fintal	

Altered	Date
Moved	Date

Lot size:

One acre or less	Over one acre
Approximate frontage	

Approximate distance of building from street

Organization_____

Date

(over)

Original use indust	rial		
Subsequent uses (if an	y) and dates		aji.
Themes (check as ma	ny as applicable)	(3x3" or 3x5") to left side of form	
Aboriginal Agricultural Architectural The Arts Commerce Communication Community developme	Conservation Education Exploration/ settlement Industry Military Political	Recreation Religion Science/ invention Social/ humanitarian Transportation	
Historical significanc	e (include explanation of theme	s checked above)	
	al structures were built wit	h the concern and attention to	
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	al structures were built wit	h the concern and attention to	
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	H) LOW,73
	Town Lowell
	Street address Mammoth Road : O'Donnell Bri
	Name Northern Canal Gate House
	Use: original & present Gate
The property of the second sec	Present owner Locks and Canal Compan
	Open to public
	Date Style
Liwiawic mulans	Source of date Locks & Canal Records
Music Other Development of town/city	Architect
Architectural reason for inventorying:	OR part of Area #
	erated Moved Altered Added
4. DESCRI	PTION
FOUNDATION/BASEMENT: High Regular Lo	ow Material Granste
WALL COVER: Wood	Brick Stone Other
ROOF: Ridge Gambrel Flat Hip Mansard Tower Cupola Dormer windows Balu	strade Grillwork
CHIMNEYS: 1 2 3 4 Center End	Interior Irregular Cluster Elaborate
STORIES: 1 2 3 4 ATTACHMENTS: W	ings Ell Shed
PORCHES: 1 2 3 4	PORTICO Balcony
FACADE: Gable end: Front/side Ornament_	
Entrance: Side Front: Center/Side Details:	BAPONEANCH OF SELE (Name and claborate on the selection of the selection o
Windows: Spacing: Regular Irregular Identic	al)Varied
The state of the s	Conditions Excellent Close Fair Deputation
Stylet Catolina Penetral Orders activated	
5. Indicate location of building in relation to nearest cross streets and other buildings	6. Footage of structure from street
The lead of the state of the st	Recorder
Mcmmote Rd.	For
Memmote Rd.	Photo # Date
LEDATION OF SURBOUNDING STRUCTU	SEE REVERSE SID
	ODD TIEVEROE SID

Form B. 10M-6-71-049688

1. Outbuildings	(b)	Option 1. Date
2. Landscape Fea Predominant Landscape a		ed Garden: Formal/Informal
	ructures	nic Revival Italian Villa Lombard Rom. nian Modern
Use: Reside	ntial Commercial Religious	Conditions: Excellent Good Fair Deteriorated
Windows: Speciag	Constant Anna Commission Commission (1998)	Med T. T.
theme circled and still in thouse is no The Paintuck designed of shoppards. strong win for the mill and show	on front of form) " Presently of use as part of the canal was the original at Canal was constructed for floating logs down the In 1847 the Northern Crents in the canal system lls. The Gale House is an Id be preserved "D	
	sellent Good Fair Deterlorated	
O Urban Desig	ND/OR REFERENCE " Study that or cal Survey.	City Development authority,
Loi	vell, 1970.	
	Commerce/Industry Science/Invention Travel/communication Allitary Affairs Religion/philosophy Indiana	There is position to the state of the state
		Use: original & present Code Comment
RESTRICTIONS_		Hiteet address Manna M. Ashers of As
Original Owner:_ Deed Information:	Book Number Page	,

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Identification---Structure Number: PAWT.GH TDLCS: 40593 Structure Name 1: NORTHERN CANAL GUARD GATES GATE HOUSE Structure Name 2: PAWTUCKET GATE HOUSE Structure Name 3: Park Alpha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK ORGCODE: 1780 County: MIDDLESEX State: MA Regional Office: NORTH ATLANTIC Subunit ORGCODE: Name: County: MIDDLESEX State: MA Alpha Code: O Zone/Easting/Northing Number of UTM's: -Significance-NR Status: ENTERED - DOCUMENTED Date: 10/18/85 Significance: NATIONAL NHL: YES Date: 12/22/77 Significance HOUSES CHIEF ENGR. FRANCIS' INGENIOUS CONTROL SYSTEM: INWARD-FLOW TURBINE WORKED 20 LARGE HOISTING SCREWS TO RAISE OR LOWER SLUICE GATES. HOISTING WHEEL EXPERIMENTS, 1848. TURBINE STILL IN PLACE (UNDER BRIDGE), BUT GATES NOW OPERATE ELECTRICALLY. -Historical Information— Period of Construction: HISTORIC (BU) Designer: FRANCIS, JAMES B. & FRANKLIN FORBES Date: 1847-Date: 1869-1871 (AL) Designer: Date: 1891-1923 (AL) Designer: Date: 1915-1916 (AL) Designer: -Functions, Uses, Materials, Impacts, and Condition-Current Uses Historic Functions UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE DAM - MULTI-ARCH DAM - MULTI-ARCH -Buildings----Materials----Structures-Sub-structure: GRANITE Foundation: GRANITE Framing: WOOD Walls: BRICK Super-structure: GRANITE Roof: SLATE BRICK Other: Volume: 20,001 - 2,000,000 CUBIC FT Description ITALIANATE 1-STORY BRICK BLDG. W/ SLATE GABLE ROOF & TALL, RECESSED, ARCHED WINDOWS SITS ATOP MASSIVE GRANITE FOUND'N., WHICH FORMS PART OF GUARD DAM. CORBELED, DENTICULATED CORNICE. 10 SLUICE GATES SEP. BY 9 PIERS CONTROL WATER ADMITTED TO DAM. Impact Level: MODERATE Impact Types: INUNDATION (FLOODING) VANDALISM BIO. DEGRADATION (MOLD) Condition: GOOD

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name Number

40593 LOWE NORTHERN CANAL GUARD GATES GATE HOUSE PAWT.GH

-Management Information----

NPS Legal Interest: NONE - LOCAL GOVERNMENT OWNED Federal Owner: Life:

Exp. Date: / / Local Owner: MA/DEM

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANDUME. Exp. Date: 04/03/96

Proposed Ultimate Treat: Doc: Date: //
Approved Ultimate Treat: PRESERVATION Doc: GMP Date: 08/00/81 Proposed Ultimate Treat:

Treatment Responsibilities Treatment Costs

Interim Treatment: NPS Interim:
Ultimate Treatment: NPS Ultimate:
Routine Maintenance: NPS Level of Estimate:
Cyclic Maintenance: NPS Estimator: Interim: \$0 Date: \$0 Date:

Approved Ultimate Treatment Completed: YES

LOWELL LOCKS & CANALS HISTORIC DISTRICT. NPS DAM #128. FIRE/INTRUSION ALARM ADDED 1993. VERT. CRACK @ NW ELEV. SHOULD BE SEALED, MONITORED. GRAN. CAP MISSING @ W CHIMNEY. WD. DOORS FACING BRIDGE SUBJ. TO DETERIORATION, VANDALISM.

-Major Bibliographical References-

Nat. Cat: NO Nat. Reg.: 78003149 CSI:

HABS:

BRIDGES: DAMS: MA00833 HAER: MA-8-A

QTRS:

CLI CRBIB Other

1. 010674 MAHLSTED HSR ARCHEOL. 2. 400101 MALONE, CANALS & IND. 1. HRS 1. 010385 HS ASSESS 2. 400107 2.

3. HSR 3. 010625 3. 010390 GMP

4. CLR 4. 5. 5. 400108

Documentation Level: GOOD

Date Entered/Updated: 07/19/94 Logger: JIG

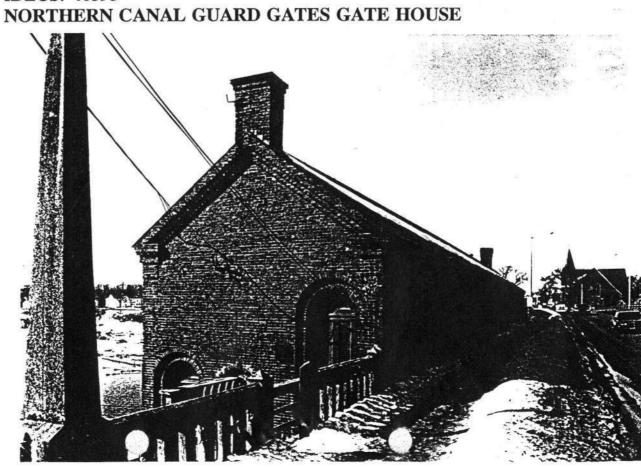
Date of Report: 04/04/95

page 2 of 2



Structure No. PAWT.GH

IDLCS: 40593



Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.983

Historic Name: Merrimack Canal Rolling Dam and Wasteway

Common Name: Merrimack Canal Wasteway

Address: Merrimack Canal

off French St, opposite Kirk St

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: c 1835

Architect(s):

Architectural Style(s):

Use(s): Abandoned or Vacant; Other Industrial; Other Water

Related

Significance: Archaeology, Historic; Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic

Designation(s): Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):

The Massachusetts Historical Commission (MHC) has converted this paper record to digital format as part of ongoing projects to scan records of the Inventory of Historic Assets of the Commonwealth and National Register of Historic Places nominations for Massachusetts. Efforts are ongoing and not all inventory or National Register records related to this resource may be available in digital format at this time.

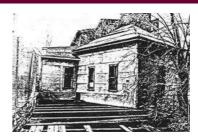
The MACRIS database and scanned files are highly dynamic; new information is added daily and both database records and related scanned files may be updated as new information is incorporated into MHC files. Users should note that there may be a considerable lag time between the receipt of new or updated records by MHC and the appearance of related information in MACRIS. Users should also note that not all source materials for the MACRIS database are made available as scanned images. Users may consult the records, files and maps available in MHC's public research area at its offices at the State Archives Building, 220 Morrissey Boulevard, Boston, open M-F, 9-5.

Users of this digital material acknowledge that they have read and understood the MACRIS Information and Disclaimer (http://mhc-macris.net/macrisdisclaimer.htm)

Data available via the MACRIS web interface, and associated scanned files are for information purposes only. THE ACT OF CHECKING THIS DATABASE AND ASSOCIATED SCANNED FILES DOES NOT SUBSTITUTE FOR COMPLIANCE WITH APPLICABLE LOCAL, STATE OR FEDERAL LAWS AND REGULATIONS. IF YOU ARE REPRESENTING A DEVELOPER AND/OR A PROPOSED PROJECT THAT WILL REQUIRE A PERMIT, LICENSE OR FUNDING FROM ANY STATE OR FEDERAL AGENCY YOU MUST SUBMIT A PROJECT NOTIFICATION FORM TO MHC FOR MHC'S REVIEW AND COMMENT. You can obtain a copy of a PNF through the MHC web site (www.sec.state.ma.us/mhc) under the subject heading "MHC Forms."

Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Thursday, November 7, 2019 at 3:41: PM



LOWELL CULTURAL RESOURCES INVENTORY

MERR IDENTIFICATION OPPOS	IMACK CANAL, off FRENCH ST	REET, (SE) LIFE 12/13/23 MAP SHEET # 7
1) CURRENT OWNER Prop	rietors of Locks and Canal	S OWNER OCCUPIED no
		[C] NHL -12/22/77
2) HISTORIC NAME Roll:	ing Dam and Merrimack Wast	eway NPD18 8/13/76
3) CURRENT NAMEs	ame	
4) PROPERTY TYPEcana.	1/canal structure	5) ZONING CLASSIFICATION A - B2
6) TAXES: PAYMENTS c	urrent	STATUSclear
7) WITHIN BOUNDARIES OF	LNHP Locks and	Canals HD LHPD
50	N.,	
HISTORICAL ABSTRACT		
1) CONSTRUCTION DATE	ca. 1882/1835	
SOURCE documented:	1878 Boott insurance surve	yupdated/Lower MerrimackInventor
2) ARCHITECT OR BUILDER	unknown	*
3) HISTORIC OWNER P	roprietors of Locks and Car	inals
4) ORIGINAL USE: GF C	anal regulation U	F n/a
1) ARCHITECTURAL STYLE utilitarian	VIEW FROM southw	PHOTO TAKEN October 1979
2) PRESENT USE: inoperable GF (Rolling Dam)		
UF n/a		
3) NO OF STORIES 1		The state of the s
4) PROP SQ FTn/a		
5) PLANI-shaped		
6) ROOF <u>hip</u>		
7) STRUCTURAL SYSTEM		
wood frame		
8) OUTBUILDINGS		
none		
9) MATERIALS:		
FOUNDATION	Charles Land	
ashlar stone		22.2
FACADEall sides:	brick-stamped metal sidin	1g
TRIMwood		3
O) NOTABLE SUBFACE & TA	NDSCAPE ELEMENTS sits ove	er wasteway

6

6.6

ADI	DRESS	
VI	SUAL ASSESSMENT	
1)	CONDITION OF BUILDING FABRIC	needs major repair
2)	IF DETERIORATED, CAUSES	lack of maintenance, vandalism
3)	INTEGRITY OF HISTORIC BLDG FABRIC: GF_	intact original fabric
	UF_	n/a
4)	SURROUNDING LAND USES commercial, indis	strial, residential, railroad, canal frontag
5)	INTEGRITY OF PROP'S HIST SETTINGmode	erately disrupted historic setting
6)	IMPORTANCE OF PROP TO HIST SETTING	integral to character

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

Water control features have stood on this site since 1835, when the construction of the Eastern Canal necessitated reworking of the Merrimack Wasteway to accommodate the Eastern as well as the Merrimack. The controls at this site were also involved with the flow of water entering the Boott penstock, which fed Merrimack Canal water to the Eastern Canal after 1849. The wood frame house now standing at the head of the Merrimack Wasteway is supported in part by heavy timbers extending over that wasteway. The control mechanisms have been removed from the structure, which is in very poor repair. The dam beneath the house was altered in 1934 by the addition of concrete facing.

Extending northeast from that structure to the Merrimack River is the Merrimack Wasteway. Its bed is lined with rough ashlar blocks, while the walls consist of large rubble stone.

Source

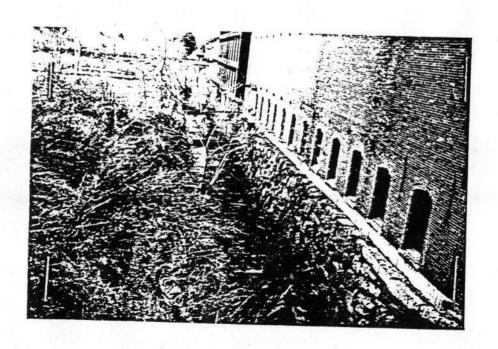
Lower Merrimack River... Inventory, p. 73.

ARCHEOLOGICAL COMMENT

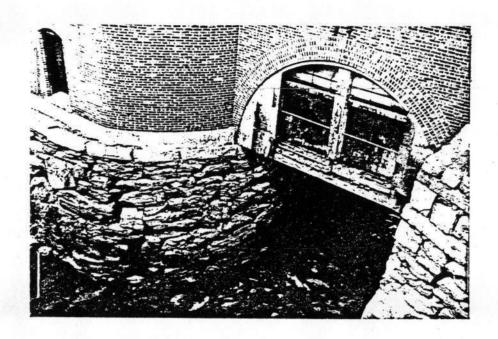
This facility has been reconstructed several times. An archeological investigation of the site might elucidate the sequence of changes.



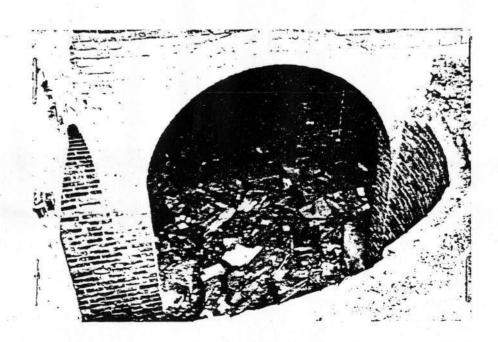
View from the south of the structure over the Rolling Dam. Photo taken in June 1979.



View from the southwest of the Merrimack Wasteway. At right is Boott Mill No. 9 Picker House. Photo taken in October 1979.

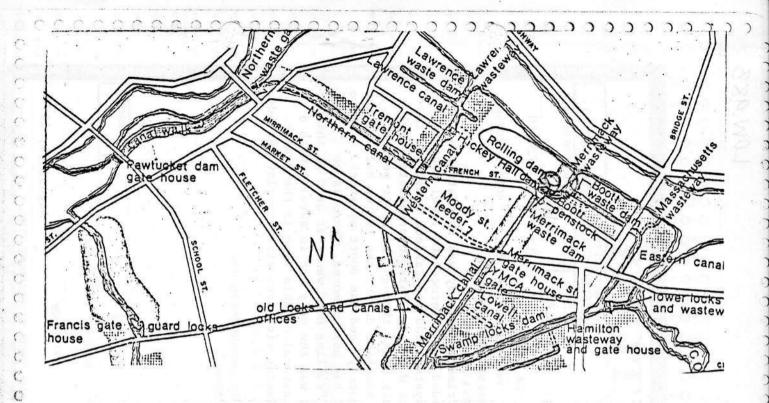


Detail of the west corner of Boott Mill No. 9, showing the wasteway passing beneath the corner of the building. Photo taken in October 1979.

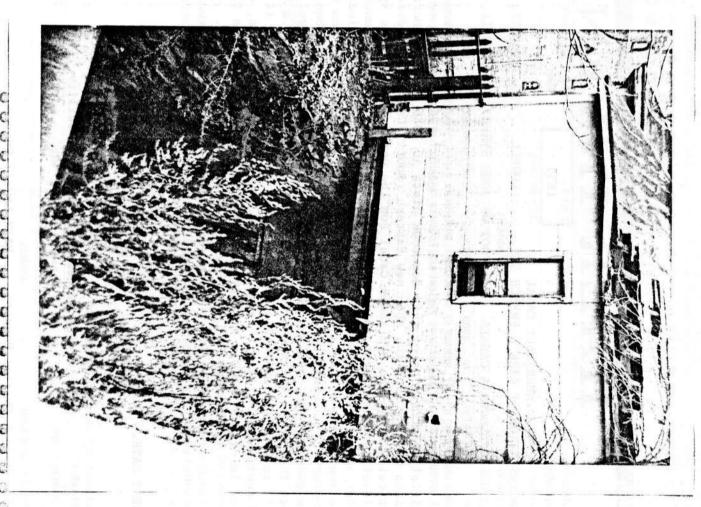


Detail of the wasteway arches at the west corner of Boott Mill No. 9. Photo taken in October 1979.

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DW .983

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

Identification	
IDLCS: 40577 St	ructure Number: MER.WW
Structure Name 1: MERRIMACK WASTEWAY Structure Name 2: Structure Name 3:	
ORGCODE: 1780 County: MIDDLE:	NATIONAL HISTORICAL PARK SEX State: MA : NORTH ATLANTIC
Alpha Code: County: MIDDLES	SEX State: MA
Number of UTM's: 0 Zone	e/Easting/Northing
Significance	HTO : treates I mixetal Bro : anomis II of analis II
NR Status: ENTERED - DOCUMENTED Significance: NATIONAL	Date: 10/18/85
NUT · VEC	Date: 12/22/77
CONSTRUCTED IN CONJUNCTION WITH EASTERN CANAL; APPARENTE CANAL LAYOUT. USED TO CONVEY EXCESS WATER BACK TO THE M	MERRIMACK RIVER.
Historical Information-	AMERICA ORIGIN STATE ME SEATED AND COLOR
Period of Construction: HISTORIC	Major Bioliographical Reference
Date: 1836-PRE (BU) Designer: Date: 1882- (AL) Designer: Date: - () Designer: Date: - () Designer:	STATE ROOM TERMS OSE:
Functions, Uses, Materials, Impacts	, and Condition—————
Historic Functions CANAL UTILITY SERVICE STRUCTURE	Current Uses CANAL UTILITY SERVICE STRUCTURE
BuildingsMaterials-	Structures
Foundation: Framing: Walls:	Sub-structure: GRANITE STONE
	per-structure: STONE
Volume: Description	Date Entered/updated: 07/20/94
EXTENDS NE FROM ROLLING DAM TO MERRIMACK RIVER. BED LIN LARGE ASHLAR STONE. APPROX. 16' WIDE. E WALL SURMOUNTE ROUNDED TO FACILITATE FLOW FROM EASTERN CANAL.	
Impact Level: MODERATE Impact Type:	THINDATTON (FLOODING)
Condition: GOOD	EROSION (FEODENS)

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name Number

40577 LOWE MERRIMACK WASTEWAY MER.WW

-Management Information-

NPS Legal Interest: NONE - PRIVATELY OWNED Life: Exp. Date: / /

Federal Owner:

Local Owner: BH

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96

Proposed Ultimate Treat:

Doc:

Date:

Approved Ultimate Treat: PRESERVATION Doc: GMP

Date: 08/00/81

Treatment Responsibilities

Treatment Costs

Interim Treatment: OTH Ultimate Treatment: OTH Interim: Ultimate:

Date: Date: \$0

Routine Maintenance: OTH Level of Estimate: Cyclic Maintenance: OTH

Estimator:

Approved Ultimate Treatment Completed: YES

LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS CANAL WALLS/FLOOR; NPS SHARES MAINT. RESPONSIBILITIES W/ STATE ALONG CANALWAY.

-Major Bibliographical References-

Nat. Reg.: 78003149

CSI:

Nat. Cat: NO

HABS:

HAER: MA-3

BRIDGES: DAMS:

CLI

CRBIB

Other

1.

HRS 1. 010385 HS ASSESS 2. 400107 HSR 3.

1. 400101 MALONE, CANALS & IND.

2.

2. 010390 GMP

3. 4.

3.

CLR 4. 5. 400108

Documentation Level: FAIR

Date Entered/Updated: 07/20/94

Logger: JIG

Date of Report: 04/04/95

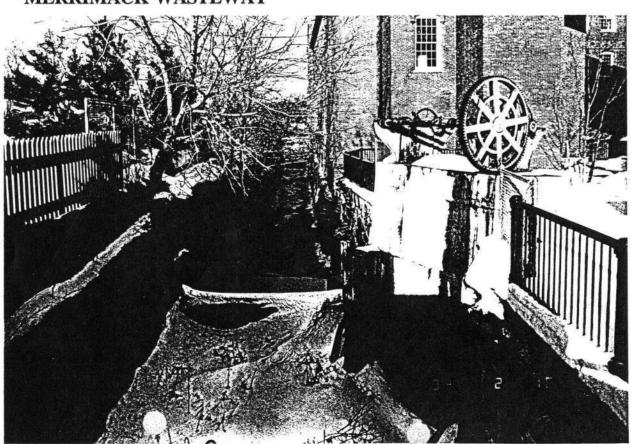
page 2 of 2



Structure No. MER.WW

IDLCS: 40577

MERRIMACK WASTEWAY



LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Identification-TDLCS: 40611 Structure Number: ROL.DAM Structure Name 1: ROLLING DAM Structure Name 2: Structure Name 3: Park Alpha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK ORGCODE: 1780 County: MIDDLESEX State: MA Regional Office: NORTH ATLANTIC Subunit ORGCODE: Name: County: MIDDLESEX Alpha Code: State: MA Zone/Easting/Northing Number of UTM's: -Significance-NR Status: ENTERED - DOCUMENTED Date: 10/18/85 Significance: NATIONAL NHL: YES Date: 12/22/77 Significance WATER CONTROL FEATURES HAVE STOOD AT THIS SITE SINCE 1835, WHEN CONSTR'N. OF EASTERN CANAL NECESSITATED REWORKING OF MERRIMACK WASTEWAY TO ACCOMMODATE BOTH EASTERN & MERRIMACK CANALS. USED IN CONJ. W/ BOOTT PENSTOCK AFTER 1849. -Historical Information-Period of Construction: HISTORIC (BU) Designer: Date: 1835-Date: 1849-(AL) Designer: Date: 1934- (AL) Designer: Date: 1985-1988 (AL) Designer: -Functions, Uses, Materials, Impacts, and Condition-Historic Functions Current Uses DAM - CONCRETE (GRAVITY) DAM DAM - CONCRETE (GRAVITY)
UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE -Buildings-----Materials-----Structures-Sub-structure: GRANITE Foundation: Framing: CONCRETE Walls: Roof: Super-structure: CONCRETE Other: IRON Volume: Description CONC.-FACED DAM LOC'D. IN STONE-LINED MERRIMACK WASTEWAY JUST ABOVE EASTERN CANAL. 1-STORY HIP-ROOFED DAM HOUSE NO LONGER EXTANT. IRON WINDLASS ON CONC. PIER STRADDLES E WASTEWAY WALL AT ANGLE, ABOVE ENTRANCE TO BOOTT PENSTOCK. Impact Level: MODERATE Impact Types: INUNDATION (FLOODING) STRUCTURAL DETERIORATION Condition: FAIR

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

	<u> </u>			nobbs. T	dr zee
IDLCS Park Structure Name	Streetu				Number
40611 LOWE ROLLING DAM					ROL.DAM
Management Information				DELEN TO	M20138
NPS Legal Interest: NONE - Life:	LOCAL GOVER Exp. Date:	NMENT OWN	ED Fede	eral Owner ocal Owner	c: MA/DEM
Management Category: MUST Management Agreement: MEMOR	BE PRES. & ANDUM OF UN	MAINT M DERSTAN A	anageme Mat. E	ent Date: kp. Date:	10/16/87 04/03/96
Proposed Ultimate Treat: Approved Ultimate Treat: PR	ESERVATION	Doc: GM	P ME	Date:	08/00/81
Treatment Responsibilitie	s	Treatmen	t Cost	5	
Interim Treatment: OTH Ultimate Treatment: OTH Routine Maintenance: OTH Cyclic Maintenance: OTH	U Level of E	ltimate: stimate:		\$0 Date	e: / e: /
	te Treatmen	THE STATE OF			
LOWELL LOCKS & CANALS HISTORIC DISTRIC	CT. 150 SF GATE HO				
Major Bibliographical Re	ferences	HISTORIC	: 40 1 30	Constru	9 DOLTS!
Nat. Reg.: 78003149	CSI:	igner:	Nat. Ca	at: NO	
HABS: HAER: MA-3-B		GES:			
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1. HRS 1. 0 2. HS ASSESS 2. 4 3. HSR 3. 4. CLR 4. 5. 5. 4	00107 2	. 010390		CANALS 8	a IND.
Documentation Level: GOOD					
Date Entered/Updated: 07/19	/94	Lo	gger: J	TIG	
	10 TO	DATE OF THE PARTY		8.03	Descritic

Date of Report: 04/04/95

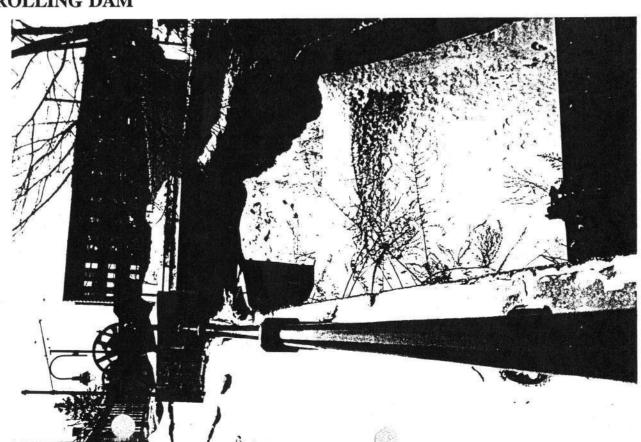
page 2 of 2



Structure No. ROL.DAM IDLCS: 40611

ROLLING DAM

*



Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.9029

Historic Name: Swamp Locks Ice Deflector and Trash Rack

Common Name: Swamp Locks Water Diverter

Address: Merrimack Canal

City/Town: Lowell
Village/Neighborhood: Downtown

Local No: C
Year Constructed: 1868

Architect(s):

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Engineering; Industry

LOW.C: Locks and Canals District

Area(s): LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

Designation(s): Landmark (12/22/1977); Nat'l Register District (06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):

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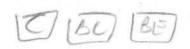
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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Thursday, November 7, 2019 at 10:17 AM

Not Yet Available

NADA 12/14/3 NADIS 5/13/76 LUTO-12/14/3 NAT- 12/22/77



LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Identification-Structure Number: SL.LNDG IDLCS: 40613 Structure Name 1: SWAMP LOCKS - ICE DEFLECTOR Structure Name 2: SWAMP LOCKS TRASH RACK Structure Name 3: SWAMP LOCKS WATER DIVERTER Name: LOWELL NATIONAL HISTORICAL PARK Park Alpha Code: LOWE Name: LOWELL NAT ORGCODE: 1780 County: MIDDLESEX State: MA Regional Office: NORTH ATLANTIC Subunit ORGCODE: Name: County: MIDDLESEX State: MA Alpha Code: Number of UTM's: 0 Zone/Easting/Northing -Significance-NR Status: ENTERED - DOCUMENTED Date: 10/18/85 Significance: NATIONAL NHL: YES Date: 12/22/77 Significance SERVED TO MAINTAIN SWAMP LOCKS BASIN AREA CLEAR OF TRASH & DEBRIS. FIRST TRASH BOOM APPARENTLY ERECTED CA. 4868, OF SPRUCE & IRON. -Historical Information-Period of Construction: HISTORIC Date: 1868- (BU) Designer: Date: 1926-(BU) Designer: Date: 1988-1991 (AL) Designer: NPS (0)) Designer: Date: -Functions, Uses, Materials, Impacts, and Condition-Historic Functions Current Uses UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE LANDING (WHARF, DOCK) LANDING (WHARF, DOCK) -Buildings-----Materials-----Structures-Sub-structure: WOOD Foundation: Framing: Walls: Super-structure: WOOD Roof: DE OSTATO - IRON Other: STEEL Volume: Description DILAPIDATED TIMBER DECK SUPP'D. BY STL. ANGLES & BRACKETS RAMPS FROM E BANK DOWN TO WATER LEVEL @ W END, AT APPROX. MID-POINT OF HEAD OF MERRIMACK CANAL. BISECTED BY MODERN PRESSURE-TREATED WD. HANDRAIL. Impact Types: STRUCTURAL DETERIORATION Impact Level: SEVERE INUNDATION (FLOODING) BIO. DEGRADATION (MOLD) Condition: POOR

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name Number 40613 LOWE SWAMP LOCKS - ICE DEFLECTOR SL.LNDG -Management Information— NPS Legal Interest: NONE - LOCAL GOVERNMENT OWNED Federal Owner: Exp. Date: / / Life: Local Owner: MA/DEM Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96 Proposed Ultimate Treat: Doc: Date: Date: 08/00/81 Doc: GMP Approved Ultimate Treat: PRESERVATION Treatment Responsibilities Treatment Costs Interim Treatment: NPS Interim:
Ultimate Treatment: NPS Ultimate:
Routine Maintenance: NPS Level of Estimate:
Cyclic Maintenance: NPS Estimator: \$0 Date: Ultimate: \$0 Date: Approved Ultimate Treatment Completed: NO LOWELL LOCKS & CANALS HISTORIC DISTRICT. NPS MAINTAINS FOR TOUR BOAT USE. -Major Bibliographical References-Nat. Cat: NO Nat. Reg.: 78003149 CSI: BRIDGES: HABS: DAMS: HAER: QTRS: CLI CRBIB Other HRS 1. 010385 HS ASSESS 2. 400107 HSR 3. 1. 400107 MALONE, CANALS & IND. 2. 010390 GMP 1. 3. 3. CLR 4. 4. 5. 400108

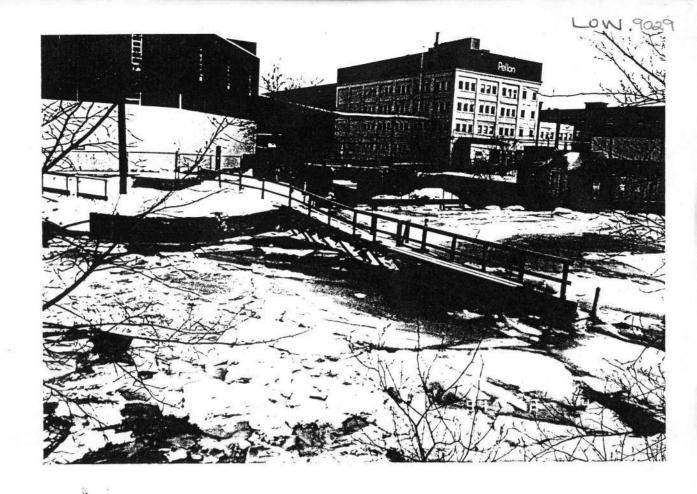
Documentation Level: POOR

Date Entered/Updated: 07/20/94 Logger: JIG

Date of Report: 04/04/95

page 2 of 2

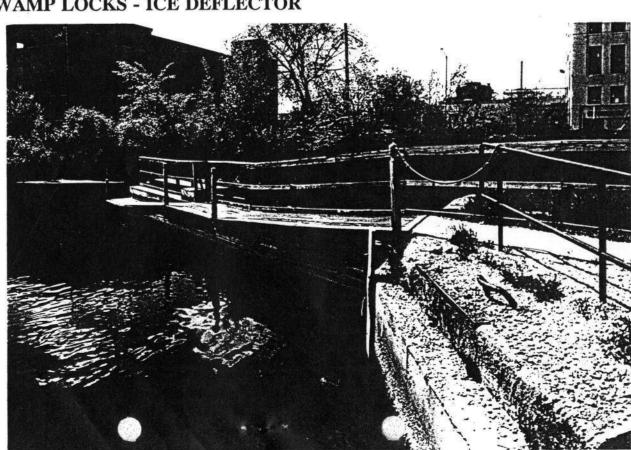
Su San E. Deal



Structure No. SL.LNDG

IDLCS: 40613

SWAMP LOCKS - ICE DEFLECTOR



Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.932

Historic Name: Pawtucket Canal Swamp Locks Gatehouse and Dam

Common Name:

Lower Pawtucket Canl Address:

East of Thorndike St

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Year Constructed: c 1859

Architect(s):

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Engineering; Industry

LOW.C: Locks and Canals District

LOW.BC: Lowell National Historical Park Area(s):

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Designation(s): Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



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> Commonwealth of Massachusetts Massachusetts Historical Commission 220 Morrissey Boulevard, Boston, Massachusetts 02125 www.sec.state.ma.us/mhc

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LOWELL CULTURAL RESOURCES INVENTORY

LOW. 932 BC/NROIS-615178 C) NROIS-8/13/76 12/22/77

1)		The Service and American Servi
	CURRENT OWNER	Proprietors of Locks and Canals . OWNER OCCUPIED ye
2)	HISTORIC NAME	Swamp Locks 18E] LOD 12/13/83
	CURRENT NAME	
	PROPERTY TYPE	
	TAXES: PAYMENTS	
7)	WITHIN BOUNDARIES O	F LNHP, LHPD, Locks and Canals HD
HI	STORICAL ABSTRACT	
1)	CONSTRUCTION DATE	1839-41
	12	documented: Lower MerrimackInventory, p. 71
2)	ARCHITECT OR BUILDE	
		Proprietors of Locks and Canals on the Merrimack River
4)	ORIGINAL USE: GF ca	anal regulation, navigationUF n/a
		ROPERTY yes DATE ca. 1792-1822, 1823-1839
		documented: Lower MerrimackInventory :
DE	9	
UL	SCRIPTIVE DATA	
_	SCRIPTIVE DATA ARCHITECTURAL STYLE	VIEW FROM northwest PHOTO TAKEN June 1979
_	SCRIPTIVE DATA ARCHITECTURAL STYLE utilitarian	VIEW FROM northwest PHOTO TAKEN June 1979
1)	ARCHITECTURAL STYLE utilitarian	VIEW FROM northwest PHOTO TAKEN June 1979
1)	ARCHITECTURAL STYLE utilitarian PRESENT USE:	
1)	ARCHITECTURAL STYLE utilitarian PRESENT USE: GF canal regulation,	
1)	ARCHITECTURAL STYLE utilitarian PRESENT USE: GF canal regulation, UFn/a	
1) 2)	ARCHITECTURAL STYLE utilitarian PRESENT USE: GF canal regulation, UF	
1) 2) 3) 4)	ARCHITECTURAL STYLE utilitarian PRESENT USE: GF canal regulation, UF n/a NO OF STORIES 1 PROP SQ FT n/a	
1) 2) 3) 4) 5)	ARCHITECTURAL STYLE utilitarian PRESENT USE: GF canal regulation, UF n/a NO OF STORIES 1 PROP SQ FT n/a PLAN rectangular	
1) 2) 3) 4) 5) 6)	ARCHITECTURAL STYLE utilitarian PRESENT USE: GF canal regulation, UF n/a NO OF STORIES 1 PROP SQ FT n/a PLAN rectangular ROOF end-wall gable	
1) 2) 3) 4) 5) 6)	ARCHITECTURAL STYLE utilitarian PRESENT USE: GF canal regulation, UF n/a NO OF STORIES 1 PROP SQ FT n/a PLAN rectangular ROOF end-wall gable STRUCTURAL SYSTEM	
1) 2) 3) 4) 5) 6) 7)	ARCHITECTURAL STYLE utilitarian PRESENT USE: GF canal regulation, UF	
1) 2) 3) 4) 5) 6) 7)	ARCHITECTURAL STYLE utilitarian PRESENT USE: GF canal reguration, UF	
1) 2) 3) 4) 5) 6) 7)	ARCHITECTURAL STYLE utilitarian PRESENT USE: GF canal regulation, UF n/a NO OF STORIES 1 PROP SQ FT n/a PLAN rectangular ROOF end-wall gable STRUCTURAL SYSTEM wood frame OUTBUILDINGS none	
1) 2) 3) 4) 5) 6) 7)	ARCHITECTURAL STYLE utilitarian PRESENT USE: GF canal regulation, UF n/a NO OF STORIES 1 PROP SQ FT n/a PLAN rectangular ROOF end-wall gable STRUCTURAL SYSTEM wood frame OUTBUILDINGS none MATERIALS:	
3) 4) 5) 6) 7) 8)	ARCHITECTURAL STYLE utilitarian PRESENT USE: GF canal regulation, UF n/a NO OF STORIES 1 PROP SQ FT n/a PLAN rectangular ROOF end-wall gable STRUCTURAL SYSTEM wood frame OUTBUILDINGS none	

none

10) NOTABLE SURFACE & LANDSCAPE ELEMENTS

L) (CONDITION OF	BUILDING	FABRIC		needs minor repair
2) :	IF DETERIORAT	ED, CAUSE	S		n/a
3) :	INTEGRITY OF	HISTORIC	BLDG FABRIC:	GF	intact with evolutionary alterations
-				UF	n/a
+)	SURROUNDING L	AND USES	industrial	, ra	ilroad, canal frontage
	INTEGRITY OF		ST SETTING	5	severely disrupted historic setting
	IMPORTANCE OF		er area e i i manu annea e e e e e e e e e e e e e e e e e		integral to character
,	IM OKIANCE OF	THOT TO	HIST SETTING	10	

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

See Research Report.

The Swamp Locks and Dam of the Pawtucket Canal occupy the position of the third of four sets of locks of the original 1792-6 canal. Since the 1822-3 rebuilding of the canal, this complex has been the central one of the reworked three-lock system, and has been the crucial division between the upper and lower levels of the two-tiered power canal network. Water flows at one level for about 5,700 feet from the Merrimack River to the Swamp Locks, then drops thirteen feet to the lower level, which is seventeen feet above the water in the Concord River below the Canal.

The oldest fabric of the complex dates from an 1839-41 rebuilding, but the basic configuration is the result of the 1822-23 reconstruction of the canal. In 1839-41, the present stepped dam was built, and the twenty-five foot locks were narrowed to twelve feet. Within the original rubble stone locks, the narrower locks were built. Only the new lock walls around the gates were built of stone—the remainder of the walls were wooden. These wooden walls were replaced with ashlar on the upper lock in 1892, but the lower lock's walls were simply renewed periodically in wood, and are now gone.

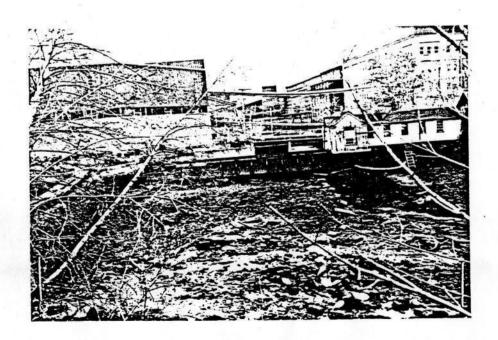
The dam has sluiceways to the north and south. The latter was built of ashlar, probably in 1841, while the former was completed in 1928. There have been protective houses over the south sluice gate and the crest of the dam since 1859, and the present gable-roofed structures may date at least in part from that time. In the 1940s, various portions of the complex were rebuilt in concrete.

ARCHEOLOGICAL COMMENT

The Swamp Locks complex includes fabric of several construction efforts. An archeological investigation of the site might help elucidate the sequence of rebuildings.

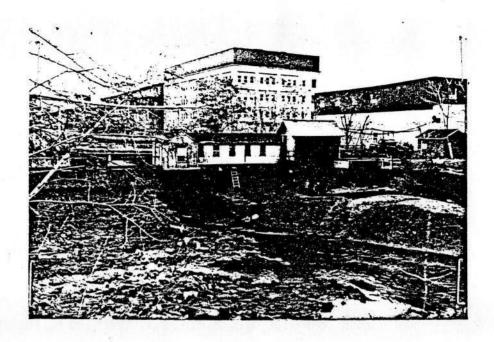


View of the Swamp Locks from the northwest, with the water drawn off from the canal. Photo taken in October 1979.

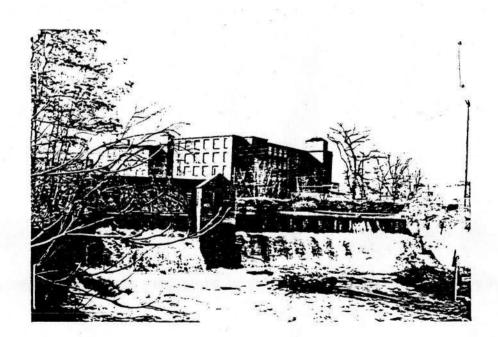


Detail of the Swamp Locks Dam and north sluiceway, viewed from the west, with the water drawn off. The north sluice is located beneath the small facadegable structure. Photo taken in October 1979.

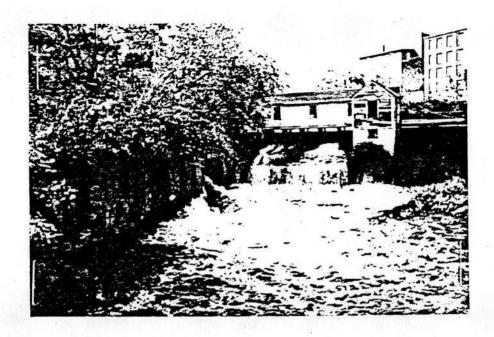
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View of the Swamp Locks from the west, showing men at work on the south sluice gate. Photo taken in October 1979.

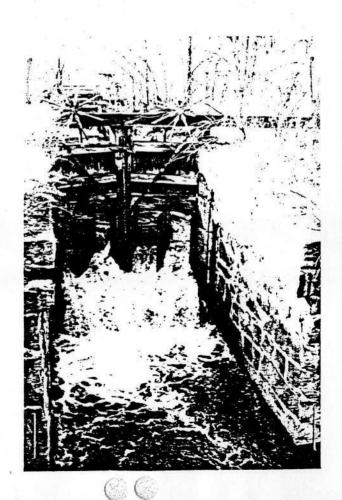


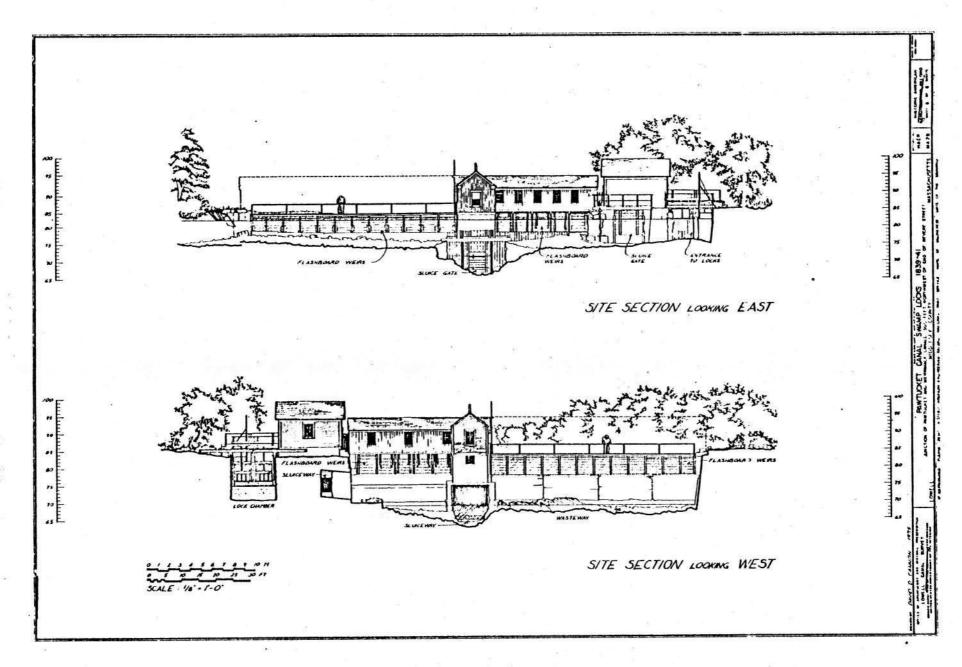
View of the Swamp Locks from the east. Photo taken in October 1979.



Detail of the Swamp Locks Dam (right) and lock (left), as seen from the east. Photo taken in August 1979.

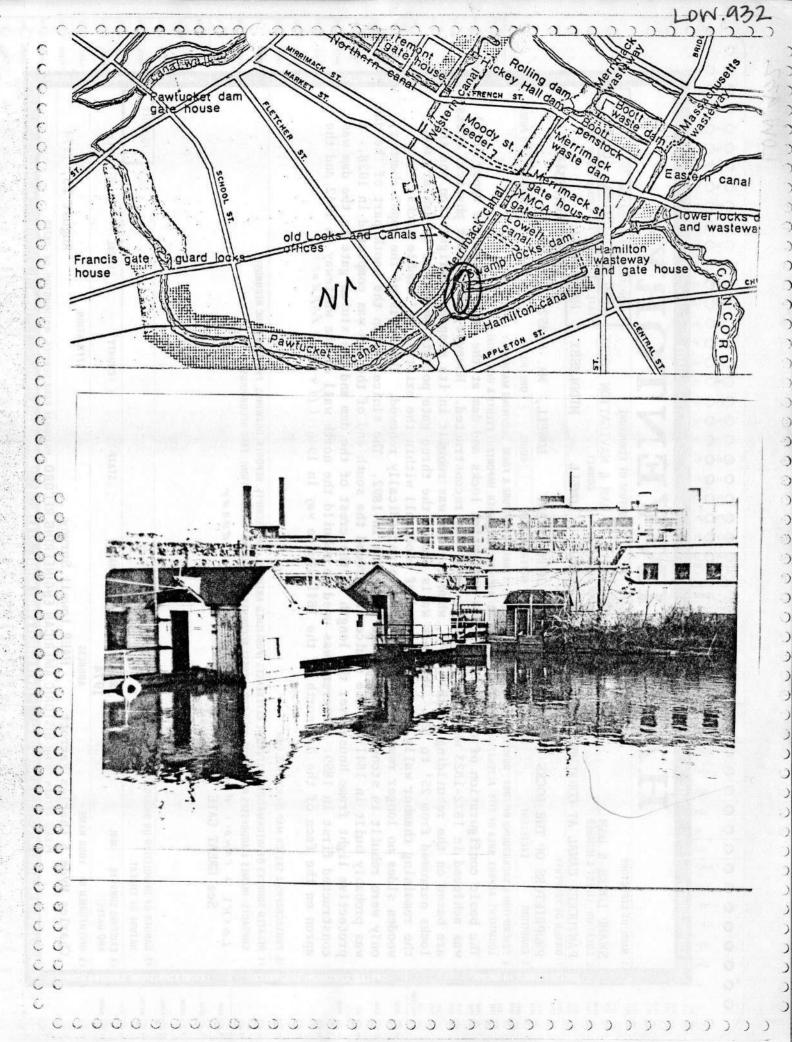
Detail of a lock at the Swamp Locks. Photograph taken in October 1979.





Section drawings of the Swamp Locks, prepared by HAER in 1975. From Patrick Malone's The Lowell Canal System, 1976.

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EXISTING SURVEYS DATA	DWGS PHOTOGRAPHS	STATES	X
T	A TOTO TRIV	TINTO	DYZ
	AER IN	A EM LOI	π Y
1. NAME OF STRUCTURE			IDUSTRIAL CLASSIFICATION
SWAMP LOCKS & DAM 5. LOCATION: STREET & NUMBER	1839-1841 CITY OR TOWN	DAM & NAVIGATION LOCKS STA	PEC STRUC: HYDRA (81.2) TE 6. USGS 7 1/2 QUAD & UTM GRID REF.
	FLUENCE WITH MERRIMACK CANAL		AA LOWELL
5.7. OWNER OF PROPERTY	ADDRESS		19.310144,4723448
PROPRIETORS OF THE LOCK 8. CONDITION: EXCELLENT	S & CANALS FOOT OF JOHN STR		Name of the second of the seco
Commander and Co	NUMBER OF STRUCTURES; DIMENSIONS; FABRIC; STRU		ALTERED X ACCESSIBLE TO PUBLIC
EQUIPMENT; APPROX. AREA OF SITE; AL	TERATIONS; PRESENT USE; ENGINEER/ ARCHITECT/DESI	IGNER; IMPORTANT EVENTS & INDIVIDUALS.	
	n of this complex (two navigation 323 when the Pawtucket Canal was		
	lding of 1839-1841, when the dam		
	to 12'. The lock walls around		
the remaining chamber v	valls were constructed of wood,		
	remain although they were period	dically renewed. The walls	
only were rebuilt in st	one masonry to the 12' width in	1892. The sluice way on t	he south part of the dam
	one masonry to the 12' width in 841 and the sluice way around the		
was probably built in 1 protective light frame	841 and the sluice way around thouse over the length of the cre	he south end of the dam was est of the dam and the slui	completed in 1928. A sce gate in the dam was
was probably built in 1 protective light frame constructed first in 18	841 and the sluice way around thouse over the length of the cross. Concrete was used to rebui	he south end of the dam was est of the dam and the slui ld the north wall of the wa	ce gate in the dam was asteway in 1942 and the
was probably built in I protective light frame constructed first in 18 apron on the face of the	1841 and the sluice way around the house over the length of the cross. Concrete was used to rebuine dam north of the 1841 sluice was	he south end of the dam was est of the dam and the slui ld the north wall of the wa	ce gate in the dam was asteway in 1942 and the
was probably built in protective light frame constructed first in 18 apron on the face of the constructed sketch map on Reversion 10. Photographs & Sketch map on Reversion 10.	1841 and the sluice way around the house over the length of the cross. Concrete was used to rebuine dam north of the 1841 sluice was side.	he south end of the dam was est of the dam and the sluid the north wall of the way in 1946. (HYDE + 10	completed in 1928. A ce gate in the dam was asteway in 1942 and the PROTT)
was probably built in I protective light frame constructed first in 18 apron on the face of the 10. PHOTOGRAPHS & SKETCH MAP ON REVENTED IN THE RELATED SOURCES OF INFORMATION: H	1841 and the sluice way around the house over the length of the cross. Concrete was used to rebuine dam north of the 1841 sluice was side. HISTORICAL REFERENCES (PUBLISHED ARTICLES, MANUSCI.)	he south end of the dam was est of the dam and the slui ld the north wall of the way in 1946. (HYDE + PA	completed in 1928. A ce gate in the dam was asteway in 1942 and the PROTT)
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was probably built in I protective light frame constructed first in 18 apron on the face of the 10. PHOTOGRAPHS & SKETCH MAP ON REVENTED TO SOURCES OF INFORMATION: HE CONTACTS: (NAMES & ADDRESSES OF A	1841 and the sluice way around the house over the length of the cross. Concrete was used to rebuine dam north of the 1841 sluice was side. HISTORICAL REFERENCES (PUBLISHED ARTICLES, MANUSCI.)	he south end of the dam was rest of the dam and the sluid the north wall of the way in 1946. (14408 + 1040) CRIPTS, REPORTS, DRAWINGS, PHOTO GRAPHIC (FORMATION); TAPE RECORDINGS.	completed in 1928. A ce gate in the dam was asteway in 1942 and the PROTT)
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was probably built in 1 protective light frame constructed first in 18 apron on the face of the 10. PHOTOGRAPHS & SKETCH MAP ON REVE 11. RELATED SOURCES OF INFORMATION: H CONTACTS: (NAMES & ADDRESSES OF A LOCICS & CARRES & ADDRESSES & CARRES & ADDRESSES & CARRES & CARRE	1841 and the sluice way around the house over the length of the crosses. Concrete was used to rebuine dam north of the 1841 sluice of the state of t	he south end of the dam was rest of the dam and the sluid the north wall of the way in 1946. (14408 + 1040) CRIPTS, REPORTS, DRAWINGS, PHOTO GRAPHIC (FORMATION); TAPE RECORDINGS.	completed in 1928. A ce gate in the dam was asteway in 1942 and the PROTT)
was probably built in I protective light frame constructed first in 18 apron on the face of the 10. Photographs & sketch map on reverse in Related sources of information: H CONTACTS: (NAMES & ADDRESSES OF A LOCICS & CARRES AND CATE 12. Danger of Demolition or Damage Nature of Threat: 14. EXISTING SURVEYS NHL AND DATES:	1841 and the sluice way around the house over the length of the crosses. Concrete was used to rebuine dam north of the 1841 sluice of the state of t	he south end of the dam was rest of the dam and the sluid the north wall of the way in 1946. (14408 + 1040) CRIPTS, REPORTS, DRAWINGS, PHOTO GRAPHIC (FORMATION); TAPE RECORDINGS.	completed in 1928. A ce gate in the dam was asteway in 1942 and the PROTE (1931)
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was probably built in I protective light frame constructed first in 18 apron on the face of the 10. PHOTOGRAPHS & SKETCH MAP ON REVE 11. RELATED SOURCES OF INFORMATION: H CONTACTS: (NAMES & ADDRESSES OF A LOCICS & CAROLS MARCE SEE GREAT GATE 12. DANGER OF DEMOLITION OR DAMAGE NATURE OF THREAT: 14. EXISTING SURVEYS NHL AND DATES: 15. INVENTORIED BY: YOUR NAME Charles Hyde & Charles	ANDORESS Parrott the Sluice way around the house over the length of the crosses over the length of the crosses over the length of the crosses. House over the length of the crosses over the second to rebuine the second to rebuine the second to the second	he south end of the dam was rest of the dam and the sluid the north wall of the way in 1946. (H408 + PA) CRIPTS, REPORTS, DRAWINGS, PHOTO GRAPHIC (FORMATION); TAPE RECORDINGS.	RECORDS) 13.PRIORITY LOCAL DATE August 23, 1974
was probably built in I protective light frame constructed first in 18 apron on the face of the 10. PHOTOGRAPHS & SKETCH MAP ON REVE 11. RELATED SOURCES OF INFORMATION: H CONTACTS: (NAMES & ADDRESSES OF A LOCICS & CAROLS MARCE SEE GREAT GATE 12. DANGER OF DEMOLITION OR DAMAGE NATURE OF THREAT: 14. EXISTING SURVEYS NHL AND DATES: 15. INVENTORIED BY: YOUR NAME Charles Hyde & Charles	ANDRESS Parrott He length of the creek was used to rebuilt house over the length of the creek was used to rebuilt he dam north of the 1841 sluice was used to rebuilt he dam north of the 1841 sluice was used to rebuilt he dam north of the 1841 sluice was used to rebuilt he dam north of the 1841 sluice was used to rebuilt he dam north of the 1841 sluice was used to rebuilt historical References (Published articles, Manuson North Here with hes accounts or relevant in the property of the Historical American Engineering to the Historical American Engineering	he south end of the dam was est of the dam and the slui ld the north wall of the waw in 1946. (H408 + PA) CRIPTS, REPORTS, DRAWINGS, PHOTO GRAPHIC (FORMATION); TAPE RECORDINGS.	Completed in 1928. A ce gate in the dam was asteway in 1942 and the PRATT) RECORDS) 13.PRIORITY DATE August 23, 1974 NGTON, DC 20240
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LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Tdentification-Structure Number: S.LOCKGH IDLCS: 40627 Structure Name 1: SWAMP LOCKS GATE HOUSE Structure Name 2: SWAMP LOCKS DAM HOUSE & GATEHOUSE Structure Name 3: Park Alpha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK County: MIDDLESEX State Regional Office: NORTH ATLANTIC State: MA Subunit ORGCODE: Name: County: MIDDLESEX State: MA Alpha Code: Zone/Easting/Northing Number of UTM's: -Significance-NR Status: ENTERED - DOCUMENTED Significance: NATIONAL Date: 10/18/85 Date: 12/22/77 NHL: YES Significance SITE OF 3rd SET OF 4 1792-96 NAVIGATION LOCKS. GATE HOUSE ERECTED TO SHELTER DAM & SWAMP LOCKS -LOGISTICAL HEART OF LOWELL CANAL SYSTEM AFTER 1822-23 REBUILDING PROGRAM. -Historical Information-Period of Construction: HISTORIC Date: 1859- (BU) Designer: Date: 1927-1928 (AL) Designer: (AL) Designer:
() Designer: Date: 1971-Date: -Functions, Uses, Materials, Impacts, and Condition-Current Uses Historic Functions UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE -Buildings-----Materials-----Structures-Foundation: CONCRETE
Framing: WOOD
Walls: WOOD
ROOf: ASPHALT Sub-structure: Super-structure: Other: METAL Volume: 2,001 - 20,000 CUBIC FT Description INTERLOCKING, GABLED WD.-FRAME 1-STORY DAM HOUSE & 2-BAY GATE HOUSE HOVER OVER FLASHBOARD CREST & SLUICEWAY, RESPECTIVELY. DAM HOUSE & W ELEV. OF GATE HOUSE HAVE VERT. PLANK SIDING; CLAPBD. SIDING & CORNER TRIM @ GATE HOUSE. Impact Types: STRUCTURAL DETERIORATION Impact Level: SEVERE INUNDATION (FLOODING) WEATHER Condition: POOR

Number

S.LOCKGH

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name
40627 LOWE SWAMP LOCKS GATE HOUSE

--Management Information---

NPS Legal Interest: NONE - LOCAL GOVERNMENT OWNED Federal Owner: Life: Exp. Date: / / Local Owner: MA/DEM

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96

Proposed Ultimate Treat: Doc: Date: //
Approved Ultimate Treat: PRESERVATION Doc: GMP Date: 08/00/81

Treatment Responsibilities Treatment Costs

Interim Treatment: OTH Interim: \$0 Date: //
Ultimate Treatment: OTH Ultimate: \$0 Date: //
Routine Maintenance: OTH Level of Estimate:
Cyclic Maintenance: OTH Estimator:

Approved Ultimate Treatment Completed: NO

Management Text

LOWELL LOCKS & CANALS HISTORIC DISTRICT. NPS DAM #134. NPS SHARES GROUNDS MAINTENANCE RESPONSIBILITIES W/ STATE. FIRE/INTRUSION ALARM INSTALLED 1993.

-Major Bibliographical References-

Nat. Reg.: 78003149 CSI: Nat. Cat: NO

HABS: BRIDGES:

HAER: MA-2-B DAMS: MA00836 QTRS:

CLI CRBIB Other

1. HRS 1. 010385 1. 400108 MALONE, CANAL SYSTEM 2. 400101 MALONE, CANALS & IND.

3. HSR 3. 010625 3. 010390 GMP

4. CLR 4. 4 5. 010674

Documentation Level: GOOD

Date Entered/Updated: 07/20/94 Logger: JIG

Date of Report: 04/04/95



Structure No. S.LOCKGH

IDLCS: 40627

SWAMP LOCKS GATE HOUSE

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

Identification
IDLCS: 40612 Structure Number: S.LOCDAM
Structure Name 1: SWAMP LOCKS DAM Structure Name 2: Structure Name 3:
Park Alpha Code: LOWE Name: LOWELL NATIONAL HISTORICAL PARK ORGCODE: 1780 County: MIDDLESEX State: MA Regional Office: NORTH ATLANTIC Subunit ORGCODE: Name:
Alpha Code: County: MIDDLESEX State: MA
Number of UTM's: 0 Zone/Easting/Northing
Significance
NR Status: ENTERED - DOCUMENTED Date: 10/18/85 Significance: NATIONAL
NHL: YES Date: 12/22/77
Significance SITE OF 3rd SET OF 4 1792-96 NAVIG. LOCKS. TRANSF. BY KIRK BOOTT (1822-23) INTO LOGISTICAL HEART OF LOWELL CANAL SYSTEM: DIV. BETW. UPPER & LOWER PAWTUCKET. NEW DAM CONSTR'D. BESIDE REBUILT LOCKS TO ASSURE STEADY FLOW (13' HEAD) OF WATER.
Historical Information
Period of Construction: HISTORIC
Date: 1831-1841 (BU) Designer: () Date: 1859-1897 (AL) Designer: () Date: 1927-1946 (AL) Designer: () Date: 1971-1972 (AL) Designer: ()
Functions, Uses, Materials, Impacts, and Condition
Historic Functions Current Uses CANAL LOCK DAM DAM UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE
Buildings—_Materials—_Structures—_
Foundation: Sub-structure: STONE Framing: CONCRETE Walls:
Roof: Super-structure: CONCRETE WOOD
Volume: STEEL STEEL
EXTANT DAM - INCL. STRAIGHT-SLOPED APRON - MOSTLY BASED ON 1840-41 REBUILDING. SHELTERED BY GATE HOUSE & TRUNCATED DAM HOUSE (IDLCS #40627). FLASHBOARD CREST SURMOUNTED BY STEEL CATWALK. RUBBLE STONEWORK @ S WASTEWAY WALL DATES TO 1822-23.
Impact Level: SEVERE Impact Types: INUNDATION (FLOODING) STRUCTURAL DETERIORATION
Condition: POOR

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

Park Structure Name IDLCS

Number

LOWE SWAMP LOCKS DAM 40612

S.LOCDAM

-Management Information----

NPS Legal Interest: NONE - PRIVATELY OWNED

PRIVATELY OWNED Federal Owner: Exp. Date: / / Local Owner: BH

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96

Proposed Ultimate Treat: Doc: Approved Ultimate Treat: PRESERVATION Doc: GMP

Date: / / MP Date: 08/00/81

Treatment Responsibilities

Treatment Costs

Interim Treatment: OTH

Interim: Ultimate: \$0 Date:

Ultimate Treatment: OTH Ultimate:
Routine Maintenance: OTH Level of Estimate:
Cyclic Maintenance: OTH Estimator:

Approved Ultimate Treatment Completed: NO

Management Text

LOWELL LOCKS & CANALS HISTORIC DISTRICT. NPS DAMS #134 (GATE HOUSE, ETC.) & #597 (NAVIGATION LOCK). BOOTT HYDRO MAINTAINS CANAL WALLS & FLOOR; NPS SHARES GROUNDS MAINT. RESPONSIBILITIES W/ STATE.

A TIME CESTSSEY TIRE MAIN YE LECARE . ASSOCIATION MISTER CHESTS AND AN AREA .

-Major Bibliographical References-

Nat. Reg.: 78003149 CSI:

Nat. Cat: NO

HABS:

BRIDGES:

DAMS: MA00836

- noid thood bos ato QTRS:

CLI

HAER: MA-2-B

CRBIB

Other

HRS 1. 010385 1. HS ASSESS 2. 400107 HSR 3. 010625 2. 3.

1. 400108 MALONE, CANAL SYSTEM 2. 400101 MALONE, CANALS & IND.

CLR 4.

3. 010390 GMP 4.

4. 5. 010674

Documentation Level: GOOD

Date Entered/Updated: 07/20/94

Logger: JIG

Date of Report: 04/04/95

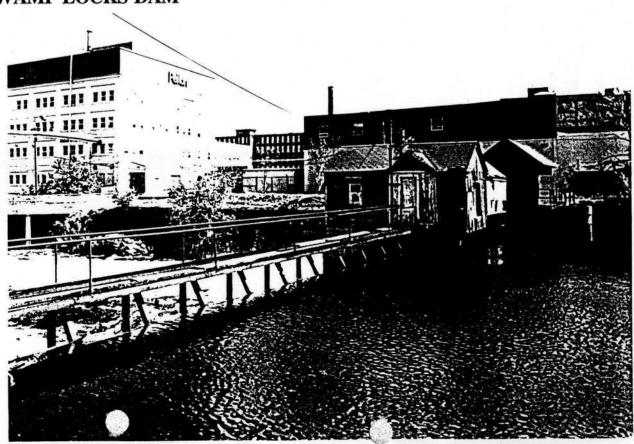
page 2 of 2



Structure No. S.LOCDAM

IDLCS: 40612

SWAMP LOCKS DAM



LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

-Identification-Structure Number: S.LOCKS IDLCS: 40581 Structure Name 1: SWAMP LOCKS Structure Name 2: "MIDDLE LOCK" Structure Name 3: "UPPER LOCK" Name: LOWELL NATIONAL HISTORICAL PARK Park Alpha Code: LOWE ORGCODE: 1780 County: MIDDLESEX State: MA Regional Office: NORTH ATLANTIC Subunit ORGCODE: Name: County: MIDDLESEX State: MA Alpha Code: Zone/Easting/Northing Number of UTM's: Significance-NR Status: ENTERED - DOCUMENTED Date: 10/18/85 Significance: NATIONAL NHL: YES Date: 12/22/77 Significance ORIG. CONSTR'D. 1794-97. DURING 1822-24, BOOTT REBUILT SINGLE WOODEN NAVIGATION LOCK W/ 2 STONE-LINED CHAMBERS TO ACCOM. INCREASED DROP & ERECTED ADJ. HIGHER DAM W/ SLUICE GATES. SWAMP LOCKS BECAME DIVIDING LINE BETWEEN 2 LEVELS OF PAWTUCKET CANAL. -Historical Information-Period of Construction: HISTORIC Date: 1794-1804 (BU) Designer: Date: 1822-1824 (AL) Designer: Date: 1840-1892 (AL) Designer: Date: 1918-1928 (AL) Designer: -Functions, Uses, Materials, Impacts, and Condition-Historic Functions Current Uses CANAL CANAL CANAL LOCK UTILITY SERVICE STRUCTURE UTILITY SERVICE STRUCTURE -Buildings-----Materials------Structures-Sub-structure: GRANITE Foundation: OTHER Framing: Walls: Super-structure: GRANITE Roof: OTHER Other: Volume: Description LOC'D. WHERE UPPER PAWTUCKET CANAL BRANCHES INTO LOWER PAWTUCKET & MERRIMACK CANALS; GEOGR. CTR. OF CANAL SYSTEM. DESIGNED TO CREATE 13' HEAD INTO LOWER PAWTUCKET. MTL. WORM GEARS AT LOCK (REPLACED OLD WD. LEVERS, 1921). Impact Level: MODERATE Impact Types: STRUCTURAL DETERIORATION VEGETATION INUNDATION (FLOODING) Condition: POOR

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

Park Structure Name TDLCS

Number

40581 LOWE SWAMP LOCKS S.LOCKS

-Management Information----

NPS Legal Interest: NONE - PRIVATELY OWNED \Life:

Federal Owner: Exp. Date: / /

Local Owner: BH

Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANAGEMENT. Exp. Date: 04/03/96

Proposed Ultimate Treat: Doc: Approved Ultimate Treat: PRESERVATION Doc: GMP

Date: / / Date: 08/00/81

Treatment Responsibilities

Treatment Costs

Interim Treatment: OTH Interim:
Ultimate Treatment: OTH Ultimate:
Routine Maintenance: OTH Level of Estimate:
Cyclic Maintenance: OTH Estimator:

\$0 Date:

Approved Ultimate Treatment Completed: YES

Management Text

LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS CANAL WALLS & FLOOR; NPS SHARES GROUNDS MAINTENANCE RESPONSIBILITIES W/ STATE.

-Major Bibliographical References-

Nat. Reg.: 78003149

CSI:

Nat. Cat: NO

HABS:

BRIDGES:

DAMS: MA00836

HAER: MA-2-B

QTRS:

CLI

CRBIB

Other

1. HRS 1. 010385 HS ASSESS 2. 400107 HSR 3. 010625 2.

1. 400101 MALONE, CANALS & IND. 2. 010390 GMP

3.

CLR 4.

3. 4.

5. 400108

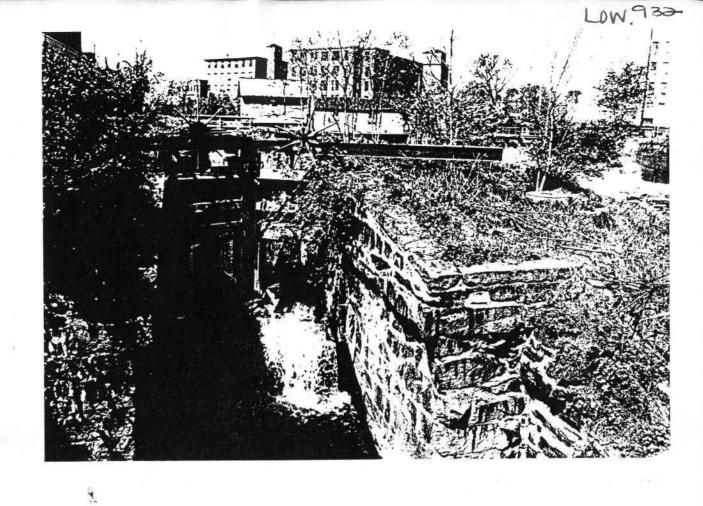
Documentation Level: GOOD

Date Entered/Updated: 07/20/94

Logger: JIG

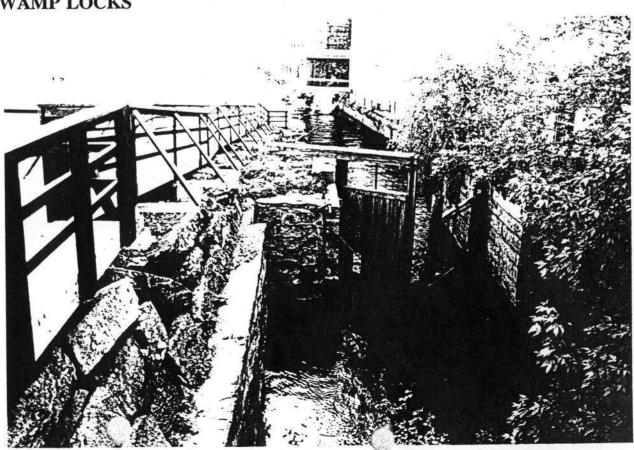
Date of Report: 04/04/95

page 2 of 2



Structure No. S.LOCKS

IDLCS: 40581 SWAMP LOCKS



Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: LOW.939

Historic Name: Western Canal

Common Name: Suffolk Canal

Western Canal

Parallel to Suffolk St

City/Town: Lowell

Village/Neighborhood: Downtown

Local No:

Address:

Year Constructed: c 1830

Architect(s): Beard, Ithamar A.

Architectural Style(s):

Use(s): Other Industrial; Other Water Related; Utilities Other

Significance: Archaeology, Historic; Engineering; Industry;

Transportation

LOW.C: Locks and Canals District
LOW.BC: Lowell National Historical Park

LOW.BE: Downtown Lowell Historic District

Nat'l Register District (08/13/1976); Nat'l Historic Landmark (12/22/1977); Nat'l Register District

(06/05/1978); Local Historic District (12/13/1983)

Building Materials(s):



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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Thursday, November 7, 2019 at 9:54: AM

LOWELL CULTURAL RESOURCES INVENTORY

BC Naois 615178 CI Naois 813176 Nin 12/22/77

ID	ENTIFICATION	From SWAMP LOCKS BA	SIN, parall	elling SUFFOLK ST.	MAP SHEET #4,7,11
		Proprietors of Lock	s and Canal	s	
		Western (or Suffolk		BELIND	12/13/83
		Western Canal			
4)	PROPERTY TYPE _	canal		5) ZONING CLASSIF	ICATION A1, B1, M3
6)	TAXES: PAYMENTS	current		STATUS clear	
7)	WITHIN BOUNDARI	ES OF LNHP	Locks and	Canals HD LHPD	
	120 2			× 1	
HI	STORICAL ABST	RACT			
1)	CONSTRUCTION DA	TE 1828-1832	2	8	
		documented: See Res		rt n 7 8	
2)		ILDER unknown			
		Proprietors of Lo			
4)	ORIGINAL USE: G	power and transport	ortation U	F n/a	
		ON PROPERTY no D			
	SOURCE				
					1
DE	SCRIPTIVE DAT	Δ			
U-SPIECE.	ARCHITECTURAL S	- managaran sa	POM souther	ast PHOTO TAK	FN October 1979
	n/a		i	I HOTO TAKE	17/7
			CHANGE STORY	Set.	N. W. Control of the Control
4)	PRESENT USE:		1	ولا تفق و المناطقة	
	GF power canal				
	UF n/a		2 2 (2)		
	NO OF STORIES_n			1	
	PROP SQ FTn	201 400 1773			
	PLAN				
277424 247224	ROOF n/		-1		
7)	STRUCTURAL SYST masonry and re- inforced concre				
8)	OUTBUILDINGS guardgates, Tre Gate House, Hid	emont key			
9)	MATERIALS:				
	FOUNDATION	202	-		1
	n/a ·				100
	FACADE rubble	and ashlar stone			
	TRIM n/a	<u> </u>			
101	NOTABLE CIRCLO	C TANDSCADE ELEMENT	Spark-like	borders north of	Property of

ADDRESS From Swamp Locks Basin, parallelling SUFFOLK ST. to MERRIMACK RIVER

VI	SUAL ASSESSMENT		
1)	CONDITION OF BUILDING	FABRIC	needs minor repair
2)	IF DETERIORATED, CAUSE	ES	lack of maintenance
3)	INTEGRITY OF HISTORIC	BLDG FABRIC: GF_	intact with evolutionary alterations
		UF	n/a
4)	SURROUNDING LAND USES	commercial, ind	expressway, canal frontage, river frontage ustrial, residential, recreational,
5)	INTEGRITY OF PROP'S H	IST SETTING moder	ately disrupted historic setting
6)	IMPORTANCE OF PROP TO	HIST SETTING fo	cal point in area

ADDITIONAL DESCRIPTIVE AND HISTORICAL INFORMATION

See Research Report, pp. 7-9, 14, 15.

The Western Canal is 4,964 feet long, from Swamp Locks to the Merrimack River. It averages nine feet deep, and varies in width from thirty five to fifty-five feet. Originally it flowed in two levels, from the Swamp Locks toward the Merrimack River, and provided power to the Suffolk, Tremont, and Lawrence mills. The Suffolk and the Tremont drew their water from the upper level Western, and dropped it thirteen feet into tailraces that carried the water to the Lawrence mills. Lawrence also used any surplus from the Western, via a lower level of the canal that fed into the Lawrence Canal. From the latter canal, the water dropped seventeen feet through Lawrence wheelpits and emptied into the Merrimack River.

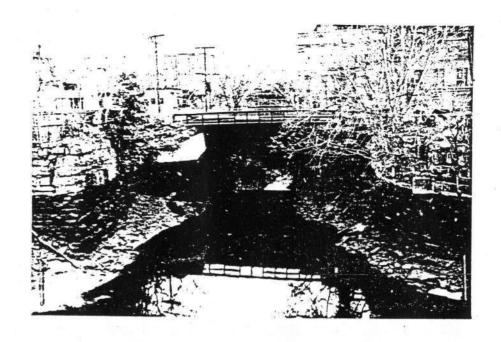
The 1846-7 construction of the Northern Canal radically altered the function of the Western Canal's upper level. The Northern directly supplied the Suffolk and Tremont mills, and reversed the flow of the Western's upper level, changing it into a feeder canal, carrying Northern Canal water to the Pawtucket Canal. Other features related to that change, such as the Moody Street Feeder off the Western Canal, and the Western Canal guard gates, are discussed on separate inventory forms.

Source

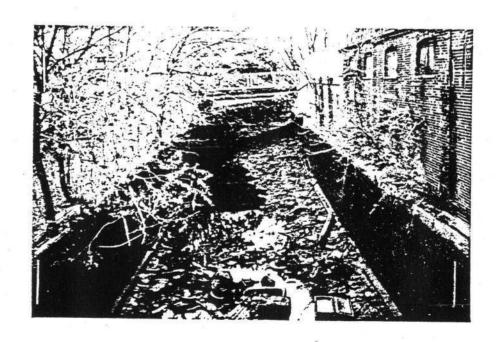
Lower Merrimack...Inventory, HAER and , pp. 75, 76.

ARCHEOLOGICAL COMMENT

The major Western Canal-related feature to fall abandoned is the hydropower system of the former Tremont Mills. The condition of that razed yard suggests that Tremont's raceways have been filled in, but not destroyed, making that a site with considerable arcehological potential.



View of the Swamp Locks end of the Western Canal, looking west. Photo taken in October 1979.



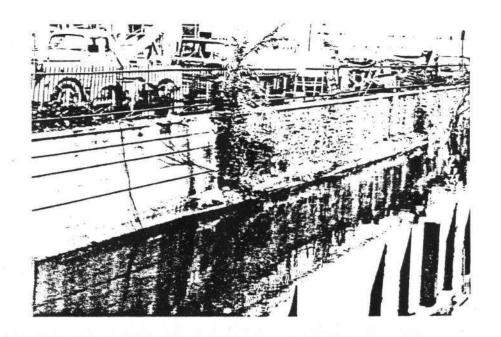
View along the drained Western Canal, looking northwest from Dutton Street. Photo taken in Ocotber 1979.



View from the north of the drained Western Canal, showing the narrowness of the canal at its southern end. The bridge crosses the canal along the former line of Worthen Street. Photo taken in October 1979.



The Western Canal along lower Suffolk Street, as seen from the southwest. Note the poured concrete wall on the left. Photo taken in October 1979.

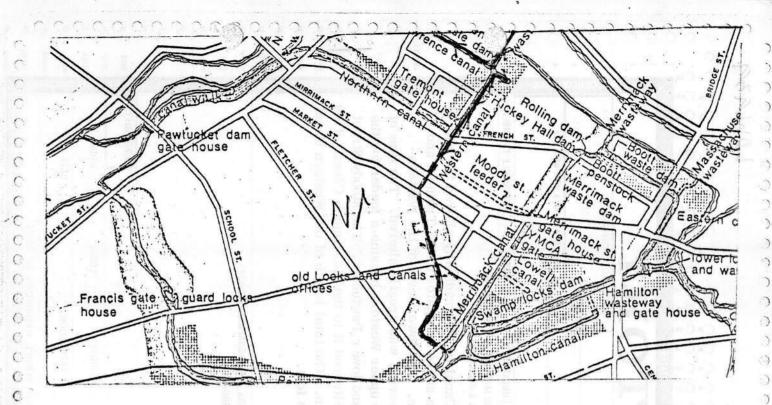


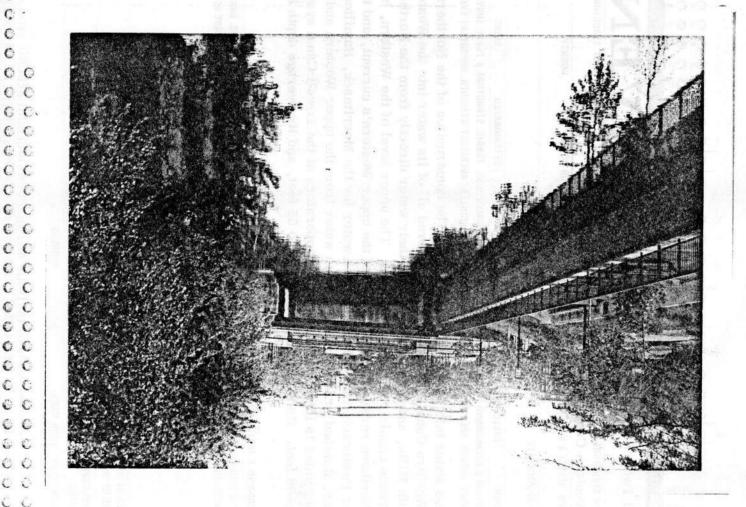
Detail of the Western Canal wall behind 66 Broadway, showing the alteration between nineteenth century rubble stone construction, and its ca. 1920's poured concrete replacement. Photo taken in June 1979.



View from the southwest of the lower level of the Western Canal, shown drained of water. The former site of the Tremont Mills is at right. Photo taken in October 1979.

Card One HA	ER IN	VEN'	TORY	
1. NAME OF STRUCTURE Western Canal 5. LOCATION: STREET & NUMBER	2. DATE 1831-1832 CITY OR TOWN	3. NATURE OF STRUCTURE POWER Canal COUNTY	4. INDUSTRIAL CLASSIFICATION 812	
from Dutton St. northwest to Me 7. OWNER OF PROPERTY	errimack River Lowell	Middlesex	MA 6. USGS QUAD MAP & U LOWell	
Proprietors of Locks and Canal 8. CONDITION: X EXCELLENT GOO			UNEXPOSED ☐ ALTERED ☒ ACCES	72338 SSIBLE TO PUBLIC
9. DESCRIPTION & BACKGROUND HISTORY: NUMBER OF EQUIPMENT; APPROX. AREA OF SITE; ALTERATIONS The Western Canal was built in upper level, and the Lawrence I barges to reach the textile mills Hickey Hall Dam are still visit Swamp Locks, and flowed in a sides of the Western's upper level discharged the water into the Laflow through the penstock of the in to the Western's lower level, well as the Lawrence Canal dromack River. A wasteway onstruction of the Canal dromack River. A wasteway onstruction. PHOTOGRAPHS & SKETCH MAP ON REVERSE SIDE.	PRESENT USE; ENGINEER/ ARCHITECT/ 1831-32 as a two level was Mills on the lower level. Is, but these locks were fill ble. The Western initial mortherly direction to the rel, drew practically all of the western initial mortherly direction to the rel, drew practically all of the western initial mortherly direction to the rel, drew practically all of the western initial where Canal, a spur of Tremont & Suffolk Mills where it joined the Lawr pped 17 feet into the whee ucted just below the inters	ter power system for Locks were initially led in during the 18-by drew its water from Tremont-Suffolk Min of the water through the lower level of the flowed through the water level of the lower level of the Lawrence Canal. Water lepits of the Lawrence section of the Lawrence Canal the Canad the Canal the Ca	or the Tremont and Suffolk Ming constructed in the Western to 40s; the remnants of the locks of the upper Pawtucket Canal II complex. These mills, on their wheelpits, a fall of 13 few Western. Any water which wasteway of the Western Canafrom the lower level of the Western the lower level of the Western, and discharged into the Mills, and discharged into the Mills and discharged into the Mills and discharged into the Mills and	to enable s at the l, above the opposite eet, and did not l and fell vestern as the Merri-
CONTACTS: (NAMES & ADDRESSES OF ANYONE WIT		T INFORMATION); TAPE RECORD	INGS.	
U. S. Census of 1880, vol. XVI P. M. Malone, Water Power in		74)		
Mr. Mel Lesberg, Manager, Pr			owell, MA	
12. DANGER OF DEMOLITION OR DAMAGE YES X NATURE OF THREAT:	NO			13.PRIORITY 1
14. EXISTING SURVEYS NHL NR AND DATES:	X HAER HABS	STATE	□ COUNTY □ LOCAL	OTHER
			AFFILIATION	





0 0 -C 0

1. NAME OF STRUCTURE	ER]		TURE OF STRUCTU		INDUSTRIAL CLASSIFIC	CATION
Western Canal	OI-PV	00 70000				
5. LOCATION: STREET & NUMBER	CITY	OR TOWN	COUNTY	3	6. USGS QUAI	D MAP & UTM GRID REF.
7. OWNER OF PROPERTY	ADDRESS			14		
8. CONDITION: EXCELLENT GO		DETERIORATED	RUINS	UNEXPOSED	ALTERED	ACCESSIBLE TO PUBLIC
9. DESCRIPTION & BACKGROUND HISTORY: NUMBER					TTINGS AND	人员等 图象
EQUIPMENT; APPROX. AREA OF SITE; ALTERATION						
excess water into the Merrima the Western Canal. The North						
Suffolk Mills, and the mills no						
bullon mills, and the mills no	W GIOW CHOIL WACCI	i directly if	III CHO THOT CL	icin. The low		
Lawrence canals remained und	changed. The uppe	er level of the		however was	greatly altere	d The flow of
Lawrence canals remained und the Northern reversed the dire			Western,		_	
the Northern reversed the dire	ection of the upper	Western's cu	Western, larrent, and	the upper Wes	tern became	a feeder for the
the Northern reversed the dire upper Pawtucket, thus providi	ection of the upper ng extra water for	Western's cu the Merrima	Western, larrent, and ck, Hamilto	the upper Wes on and lower P	tern became a wtucket. Th	a feeder for the ne Moody Street
the Northern reversed the dire	ection of the upper ng extra water for drew its water from	Western's cu the Merrima m the upper V	Western, larrent, and ck, Hamilton Western and	the upper Wes on and lower P I delivered it t	tern became a awtucket. The o the Merrim	a feeder for the ne Moody Street ack Canal. This
the Northern reversed the dire upper Pawtucket, thus providi feeder, finished in 1848, also	ection of the upper ng extra water for drew its water from present operators	Western's cu the Merrima m the upper to s of the Lowe	e Western, larrent, and ck, Hamilto Western and ll Canal sys	the upper Wes on and lower P d delivered it t stem. The tota	tern became a awtucket. The o the Merrim	a feeder for the ne Moody Street ack Canal. This
the Northern reversed the dire upper Pawtucket, thus providi feeder, finished in 1848, also arrangement is followed by the	ection of the upper ng extra water for drew its water from present operators	Western's cu the Merrima m the upper to s of the Lowe	e Western, larrent, and ck, Hamilto Western and ll Canal sys	the upper Wes on and lower P d delivered it t stem. The tota	tern became a awtucket. The o the Merrim	a feeder for the ne Moody Street ack Canal. This
the Northern reversed the dire upper Pawtucket, thus providi feeder, finished in 1848, also arrangement is followed by the	ection of the upper ng extra water for drew its water from e present operators s from 35 to 55 feet	Western's cu the Merrima m the upper to s of the Lowe	e Western, larrent, and ck, Hamilto Western and ll Canal sys	the upper Wes on and lower P d delivered it t stem. The tota	tern became a awtucket. The o the Merrim	a feeder for the ne Moody Street ack Canal. This
the Northern reversed the direction upper Pawtucket, thus providing feeder, finished in 1848, also arrangement is followed by the is 4,500 feet. Its width varies 10. PHOTOGRAPHS & SKETCH MAP ON REVERSE SIDIL RELATED SOURCES OF INFORMATION: HISTORICAL	ection of the upper ng extra water for drew its water from e present operators is from 35 to 55 feet E.	Western's cu the Merrima m the upper V s of the Lowe t, and its ave	e Western, larrent, and ck, Hamilto Western and ll Canal systemate depth	the upper Wes on and lower P d delivered it t stem. The total f 9 feet.	tern became a awtucket. The o the Merrim al length of th	a feeder for the ne Moody Street ack Canal. This
the Northern reversed the direction upper Pawtucket, thus providing feeder, finished in 1848, also arrangement is followed by the is 4,500 feet. Its width varies to Photographs & Sketch Map on Reverse Side	ection of the upper ng extra water for drew its water from e present operators is from 35 to 55 feet E.	Western's cu the Merrima m the upper V s of the Lowe t, and its ave	e Western, larrent, and ck, Hamilto Western and ll Canal systemate depth	the upper Wes on and lower P d delivered it t stem. The total f 9 feet.	tern became a awtucket. The o the Merrim al length of th	a feeder for the ne Moody Street ack Canal. This
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LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT

Identification	
IDLCS: 40584	Structure Number: WESTERN
Structure Name 1: WESTERN C Structure Name 2: Structure Name 3:	ANAL 1000 1 Mariner W 1 200 2 200 M
ORGCODE: 1780 Count Region	e: LOWELL NATIONAL HISTORICAL PARK y: MIDDLESEX State: MA al Office: NORTH ATLANTIC
Subunit ORGCODE: Nam Alpha Code: Count	y: MIDDLESEX State: MA
Number of UTM's: 0	Zone/Easting/Northing
Significance	etal aredal aredal
NR Status: ENTERED - DO Significance: NATIONAL	CUMENTED Date: 10/18/85
NHL: YES Significance	Date: 12/22/77
DESIGNED TO EXPLOIT 32' DROP (FROM PAWTU	CKET CANAL TO MERRIMACK R.) TO POWER FUTURE SUFFOLK, EVEN BEFORE FOUNDING OF THESE NEW MFG. CORPS. FUNCTION
Historical Information	SALEYTYANG, DESIGNATURE NA STATE ALONG CANALUAY.
Period of Construction: HISTO	RICeeonersieS (soldes multdis noteM
Date: 1828-1832 (BU) Designer Date: 1846-1847 (AL) Designer Date: 1920-1930 (AL) Designer Date: - () Designer	
Functions, Uses, Materials	, Impacts, and Condition-
Historic Functions CANAL UTILITY SERVICE STRUCTURE	Current Uses CANAL UTILITY SERVICE STRUCTURE
Buildings—M	aterialsStructures-
Foundation: Framing: Walls:	Sub-structure: STONE CONCRETE
Roof: Other: Volume:	Super-structure: STONE CONCRETE GRANITE
	E. WALL TREATMENT VARIES: ASHLAR, RUBBLE (S OF BROADWAY); S (S OF MARKET); LARGE STONES W/ ASHLAR COPINGS & BRICK S).
Impact Level: MODERATE Im Condition: FAIR	pact Types: STRUCTURAL DETERIORATION VEGETATION INUNDATION (FLOODING)

LIST OF CLASSIFIED STRUCTURES (LCS) SINGLE ENTRY REPORT Continued

IDLCS Park Structure Name Number 40584 LOWE WESTERN CANAL WESTERN -Management Information---NPS Legal Interest: NONE - PRIVATELY OWNED Life: Exp. Date: / / Federal Owner: Local Owner: BH Management Category: MUST BE PRES. & MAINT Management Date: 10/16/87 Management Agreement: MEMORANDUM OF UNDERSTANDIMET. Exp. Date: 04/03/96 Proposed Ultimate Treat: Date: Doc: Date: 08/00/81 Approved Ultimate Treat: PRESERVATION Doc: GMP Treatment Responsibilities Treatment Costs Interim Treatment: OTH Interim:
Ultimate Treatment: OTH Ultimate:
Routine Maintenance: OTH Level of Estimate: Date: Date: Cyclic Maintenance: OTH Estimator: Approved Ultimate Treatment Completed: YES LOWELL LOCKS & CANALS HISTORIC DISTRICT. BOOTT HYDRO MAINTAINS CANAL WALLS/FLOOR; NPS SHARES MAINTENANCE RESPONSIBILITIES W/ STATE ALONG CANALWAY. -Major Bibliographical References-Nat. Cat: NO Nat. Reg.: 78003149 CSI: HABS: BRIDGES: HAER: MA-5 DAMS: QTRS: CLI Other CRBIB HRS 1. 010385 HS ASSESS 2. 400107 HSR 3. 1. 400101 MALONE, CANALS & IND. 2. 010390 GMP 1. 2. 3. 3. 4. CLR 4. 5. 400108

NO. SCHOOL OF THE SERVICE CHANGE TO SERVICE HE

Documentation Level: GOOD

Date Entered/Updated: 07/20/94

page 2 of 2

Date of Report: 04/04/95

Logger: JIG



Structure No. WESTERN

IDLCS: 40584

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