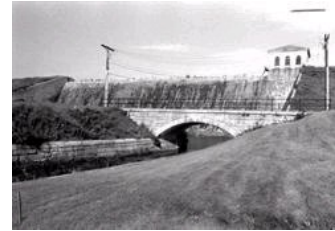


# Massachusetts Cultural Resource Information System

## Scanned Record Cover Page

<b>Inventory No:</b>	SBR.912
<b>Historic Name:</b>	Weston Aqueduct Section 1 Bridge
<b>Common Name:</b>	MDC Access Road Bridge over Sudbury Reservoir
<b>Address:</b>	Weston Aqueduct
<b>City/Town:</b>	Southborough
<b>Village/Neighborhood:</b>	Fayville
<b>Local No:</b>	7-6
<b>Year Constructed:</b>	
<b>Architect(s):</b>	Gill, T. H. and Company
<b>Architectural Style(s):</b>	Arch Filled Spandrel; Arch Barrel Dressed Voussoir
<b>Use(s):</b>	Other Engineering; Other Transportation; Utilities Other
<b>Significance:</b>	Engineering; Transportation
<b>Area(s):</b>	SBR.F: Sudbury Dam Historic District sbr.i: Water Supply System of Metropolitan Boston
<b>Designation(s):</b>	Nat'l Register District (1/18/1990); Nat'l Register TRA (1/18/1990)
<b>Building Materials(s):</b>	



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Commonwealth of Massachusetts  
Massachusetts Historical Commission  
220 Morrissey Boulevard, Boston, Massachusetts 02125  
[www.sec.state.ma.us/mhc](http://www.sec.state.ma.us/mhc)

This file was accessed on:

Saturday, July 09, 2016 at 5:34: PM

## MASSACHUSETTS HISTORIC BRIDGE INVENTORY

Municipality: Southborough New District: 3

Street name/Rt. #: MDC access road

Over

Street name/Rt. #: Sudbury Reservoir spillway, Stony Brook

Bridge key #: MDC 384 076 100 Photo ##s: 149:37 150:0-4

Bridge plan #: 5-20-24\* (4CY)

Common/historic name: Section 1 Bridge (NR nom.)

Current owner: \_\_\_\_\_

UTM coordinates: \_\_\_\_\_ AASHTO rating: 23.0 (1-5-94)  
38.0 (10-7-91)

\*\*\*\*\*

National Register status (insert date) Field rating:

Entered: \*\*1-18-90 Potential: \_\_\_\_\_ 3 ← (2) 1

Eligible: \_\_\_\_\_ Non-eligible: \_\_\_\_\_

\*\*\*\*\*

Date built (source): 1903 (NR. nom.)

Date(s) rebuilt (source): \_\_\_\_\_

Builder (source): \_\_\_\_\_

Designer (source): ? presumed Metro. Water & Sewerage Board engineering staff (NR. nom.)

\*\*\*\*\*

Structural type/materials: III (2x)

1-span, filled-spandrel, concrete barrel arch. stone faced. regular stone voussoirs, coursed granite ashlar spandrel facing, slightly projecting coping course. 2-pipe iron guard rail.

no evidence seen as to presence/absence of reinforcing

Overall length: 40' Deck width/layout: 16.5' out-to-out

Skew: -

Main unit, # spans: 1 lengths: 30'

Approaches, # spans: - lengths: -

Plaque: no location: -

Alterations, unusual features, comments:

\* There is confusion in the MDPW records as to the proper Bridge Dept. # for this structure. The Bridge Histories show this as 5-20-21; the current print-outs, going back at least as far as 1984, call this one of 2 bridges given as 5-20-24 (the other one being I-90/Woodland Rd.) and the print-outs give 5-20-21 as Lynbrook Rd./Wachusett Aqueduct.

signs of active leakage through SW spandrel wall.

\*\* a contributing element in the Sudbury Dam Historic District of the "Water Supply System of Metropolitan Boston" thematic multiple property nomination.



Visual quality (bridge and setting): High ☒ Average ☐ Low ☐

Site integrity: Retained ☒ Violated ☐

Describe: A handsome little bridge, a harmonious element in an impressive landscape setting below the earth-filled Sudbury Dam. Other neo-classical stone waterworks buildings on the dam above, and across the spillway to NE. Two modern concrete block buildings to SE are incongruous.  
History of bridge and site:

Sources: Candace Jenking et al., "Water Supply System of Metropolitan Boston" thematic multiple property N.R. nomination, 1989.

Plans No

RR No

Louis Berger & Assoc., "The Water Supply System of Metropolitan Boston, 1845-1926," for the MDC, 1984

\*\*\*\*\*  
Summary statement of significance:

One of the oldest of the 157 concrete arch bridges (of at least 20' span) currently known to exist in the MHD database; one of a very large group (55 of the 157) dating from the first decade of the 20<sup>th</sup> c. Of uncertain engineering significance in itself, but a well-preserved, handsomely finished, integral element of the NR-listed Sudbury Dam Historic District. One of a group of 6 similar, stone-faced concrete arch bridges in the database built by the Metropolitan Water/Water & Sewerage Board between 1903 and 1905 (C-16-18, C-16-19, W-17-1, W-17-3, and W-29-23 are the others).

Statement prepared by: S. J. Roper

Date: 8-9-94

\*\*\*\*\*

Field survey by: S. J. Roper, MDPW Historic Bridge Specialist

Date: 8/29/90

## MHD HISTORIC BRIDGE INVENTORY

BRIDGES ALREADY LISTED IN THE NR -- MHD CONCURRENCE

Municipality	On/Over	BDEPT#
<u>Bridge: Southborough</u>	<u>MDC access road/Sudbury Res. spillway</u>	<u>5-20-24</u>

has previously been reviewed by the Massachusetts Historical Commission and was listed in the National Register of Historic Places on 1-18-90\*.

After a review of all known bridges of comparable structural type identified in the MHD statewide bridge database, MHD now signifies its concurrence with that listing.

Comments:

\* listed as a contributing element in the Sudbury Dam Historic District of the Water Supply System of Metropolitan Boston thematic nomination.

A well-preserved, very early, and handsomely finished little bridge; of uncertain engineering interest, but an integral part of a major engineering complex.

Prepared by: S.J. Roper  
Date: 8-9-94

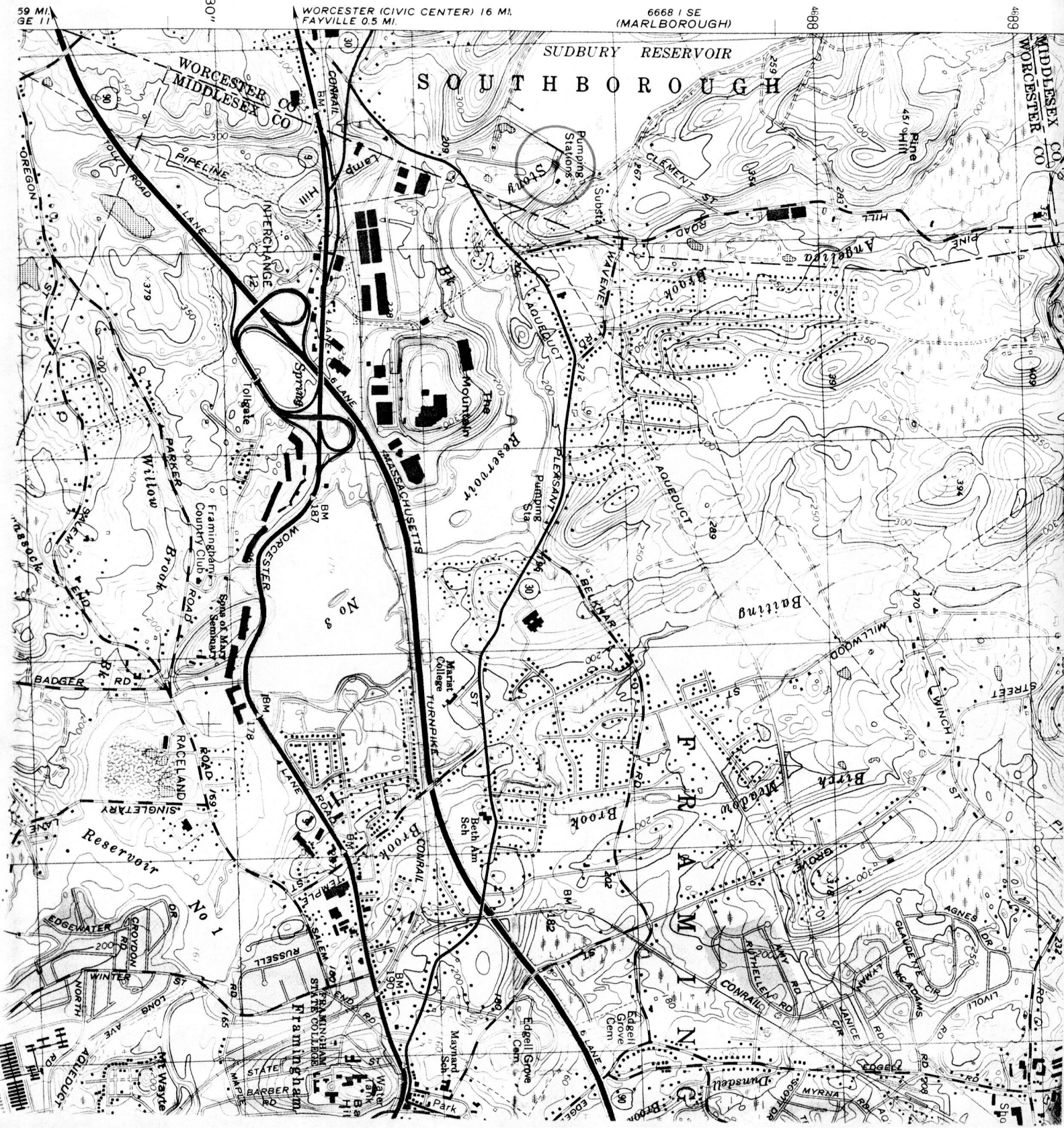


SBR. 912

7-20-24

FRAMINGHAM QUAD.

1730"





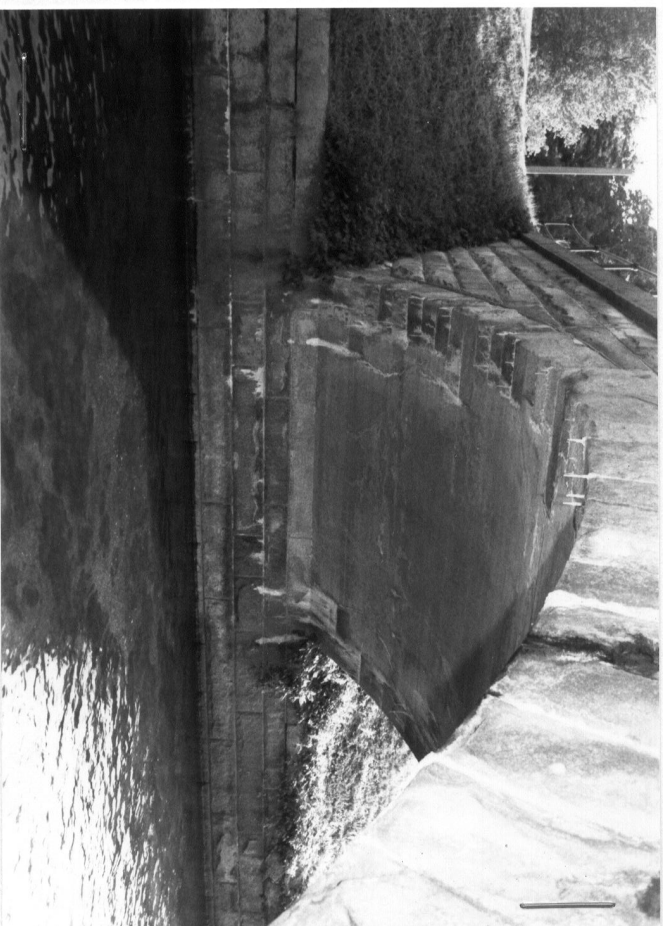
FROM E (8-29-90)



FROM S (8-29-90)



FROM N (8-29-90)



FROM SW (8-29-90)





From SW (8-29-90)



From NE (8-29-90)

**NATIONAL REGISTER ELIGIBILITY OPINION**

TO: **Betsy Friedberg**  
DATE **4/15/97**  
FROM: **W. Smith**

RETURN TO REVIEWER \_\_\_\_\_

DATE

TOWN: **Southborough**PROPERTY : **(S-20-24) MDC access road over Sudbury Reservoir spillway, Stony Brook**

(MHD NO. AND ADDRESS)

COMMON/HISTORIC NAME: **Section 1 Bridge**

Does this property meet the criteria for National Register eligibility?

<u>Individually</u>	YES	As a <u>contributing</u> element in a	YES	X
	NO	National Register District?	NO	
		Located within, or adjacent to a	YES	
		historic district or potentially	NO	
		eligible historic district?		
A. <u>Criteria</u>		More information needed	YES	
A. Events			NO	
B. Lives				
C. Characteristics				
D. Information				
B. <u>Level</u>				
	Local	State	National	

2. Statement of Significance or why not eligible?

**1903 One Span, , filled spandrel, concrete barrel arch bridge. Stone faced. Stone voussoirs, coursed granite ashlar spandrel facing.**

**Very early and finely finished bridge. Bridge is a contributing element in the Sudbury Dam Historic District of the Water Supply System of the Metropolitan Boston thematic nomination**

**The bridge was determined a contributing element to the National Register\_Historic District\_ on 1-18-90.**

Determination of Eligibility Letter Written

Filed in ER File (Date)





forms

to  
PP/SR

9/08/98

SBR.912

Gtt

## The Commonwealth of Massachusetts

William Francis Galvin, Secretary of the Commonwealth  
Massachusetts Historical Commission

May 16, 1997

Peter C. Markle  
Division Administrator  
Federal Highway Administration  
Massachusetts Division  
55 Broadway, 10<sup>th</sup> Floor  
Cambridge, MA 02142

RE: National Register Eligibility, Fourteen Bridges

Dear Mr. Markle:

Staff of the Massachusetts Historical Commission have reviewed fourteen historic bridge inventory forms prepared by the Massachusetts Highway Department. After review of MHC files and the materials submitted, MHC staff have the following comments.

As indicated on the inventory forms prepared by the Massachusetts Highway Department, the following five bridges are listed in the National Register of Historic Places:

- |                   |                |  |
|-------------------|----------------|--|
| 1. <u>Clinton</u> | <u>C-16-18</u> | Grove Street (MDC Access Road) over<br>Wachusett Reservoir Spillway (Lancaster Pond) |
| 2. <u>Clinton</u> | <u>C-16-19</u> | Former Central Massachusetts Railroad over<br>Wachusett Reservoir Spillway           |

These bridges are included as contributing elements in the Wachusett Dam Historic District of the Water Supply System of Metropolitan Boston Thematic Resource Area.

- |                        |                |   |
|------------------------|----------------|---|
| 3. <u>Southborough</u> | <u>S-20-24</u> | MDC Access Road over Sudbury Reservoir<br>Spillway, Stony Brook |
|------------------------|----------------|---|

This bridge is included as a contributing element in the Sudbury Dam Historic District of the Water Supply System of Metropolitan Boston Thematic Resource Area.

- |                  |                |   |
|------------------|----------------|---|
| 4. <u>Weston</u> | <u>W-29-23</u> | Ash Street over Weston Reservoir Aqueduct |
|------------------|----------------|---|

This bridge is included as a contributing element in the Weston Aqueduct Linear District of the Water Supply System of Metropolitan Boston Thematic Resource Area.

5. West BoylstonW-17-1

Thomas Street over Quinepoxit River

This bridge is included as a contributing element in the Water Supply System of Boston Thematic Resource Area.

**MHC concurs with the preliminary finding of the Massachusetts Highway Department that the following two bridges meet the criteria for individual listing in the National Register of Historic Places:**

1. WorcesterW-44-10

State 12 (Webster Street) over Middle River

2. BostonB-16-21, M-25-4

State 28 (Blue Hill Avenue) over Neponset River

The following four bridges do not appear to meet National Register criteria for individual listing. However, the bridges are located within or adjacent to a historic district or potentially eligible historic district (or in the immediate vicinity of another historic property), and plans for replacement should take into consideration potential impact to adjacent properties.

1. ConcordC-19-7

State 2 (Elm Street) over Assabet River

Bridge is located adjacent to the Concord Reformatory and its associated worker housing. The housing is eligible for listing in the National Register of Historic Places.

2. GranvilleG-10-5A

State 189 (Granby Road) over Dickinson Brook

Bridge is located adjacent to the Granville Village Historic District.

3. HaverhillH-12-10

Locust Street over Little Brook

Bridge is located adjacent to (and within a proposed expansion of) the Washington Street Shoe Historic District.

4. West BoylstonW-17-3

State 140 (Beaman Street) over Stillwater River

Bridge is located within the Weston Aqueduct Linear District of the Water Supply System of Metropolitan Boston Thematic Resource Area.



NRDIS/TRA 1/18/90

FORM F - STRUCTURE

PI-FAY  
USGS-FRAM

In Area no. 7-1	Form no. <del>7-6</del> 912
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1. Town Southborough

Address North of U.S.30, Village of

Fayville

Name Bridge on Section 1, Weston Aqueduct

Present use vehiclar bridge

Present owner MDC-Boston

3. Type of structure (check one)

bridge	<u>x</u>	pound	_____
canal	_____	powder house	_____
dam	_____	street	_____
fort	_____	tower	_____
gate	_____	tunnel	_____
kiln	_____	wall	_____
lighthouse	_____	windmill	_____

other \_\_\_\_\_

5. Description

Date 1902-03

Source Metro. Water & Sewerage Bd.,

Contract with T.H. Gill & Co., 19 June '02

Construction material concrete, granite

Dimensions 29' arch span

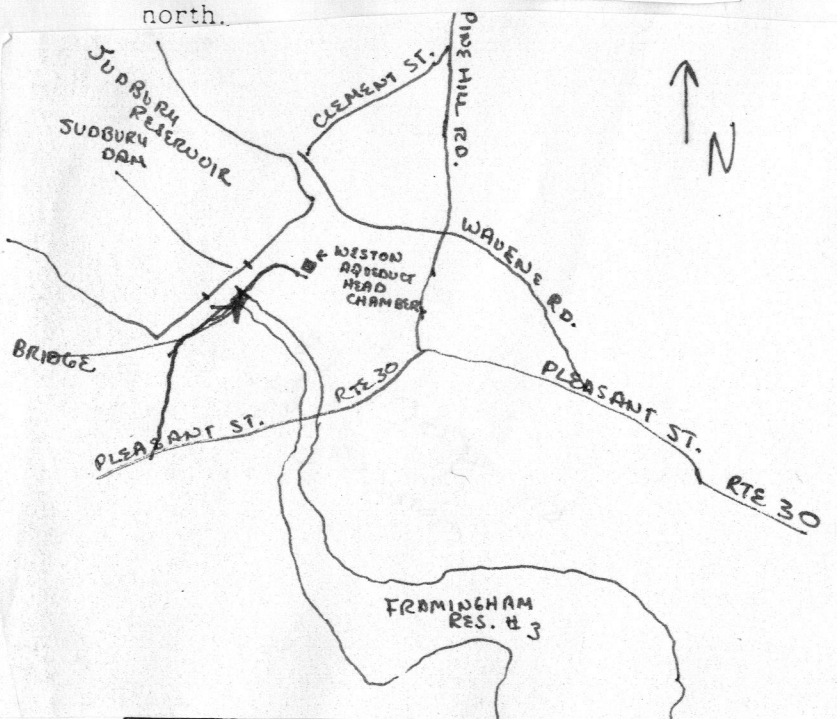
Setting near base of Sudbury Dam

Condition good

6. Recorded by M.H.Bowers

Organization Louis Berger & Assoc.

Date February 1984



DO NOT WRITE IN THIS SPACE  
USGS Quadrant \_\_\_\_\_

MHC Photo no. \_\_\_\_\_

(over)

7. Original owner (if known) Metro. Water & Sewerage Board

Original use To carry a service drive over waste channel below Sudbury Dam

Subsequent uses (if any) and dates \_\_\_\_\_

8. Historical significance

This concrete and granite, single-arch span was built as part of work on Section 1 of the Weston Aqueduct. At this section, an outlet chamber, head chamber and other features were constructed, requiring a realignment of a portion of the brook channel leading to Framingham Reservoir #3. To provide a crossing over the channel, the bridge was built in 1902-1903 by T.H. Gill & Co., of Somerville. Its form and construction are typical of other highway bridges built by the Metropolitan Water Board between 1895 and c. 1910. Although part of the Weston Aqueduct construction phase, the bridge is by virtue of its location a contributing element in the complex of structures at Sudbury Dam (see Area Form).

9. Bibliography and/or references such as local histories, deeds, assessor's records, early maps, etc.

Metropolitan Water & Sewerage Board, 3rd Annual Report (1904):116  
MWSB contract with T.H. Gill & Co., 19 Jan 1902