

FORM F - STRUCTURE

MASSACHUSETTS HISTORICAL COMMISSION
80 BOYLSTON STREET
BOSTON, MA 02116

DEC 05 1989

2288

MDC-TRA, MA

AREA

FORM NO.

	4-4
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Town AshlandAddress Hopkinton State ParkName Hopkinton Dam and SpillwayOwnership: MDC/DEM PublicPrivate

Type of Structure (check one):

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

other spillway

DESCRIPTION

Date 1891-94Source Annual ReportsArchitect Engineer/Designer (if known):
n/aConstruction material stone, concrete, earthAlterations (with dates) removal of filterbeds; mid-20th centuryCondition goodMoved no Date _____Acreage approximately 15 acresSetting rural, in state parkRecorded by Jane CarolanOrganization Louis Berger & Ass, Inc.Date 1984; rev. 1989 (C. Jenkins)

Photo (3"x3" or 3"x5" black and white)
Indicate address on back of photo.
Staple to left side of form.

Sketch Map: Draw map showing structure's location
in relation to nearest cross streets, buildings
and/or geographical features. Indicate all
buildings between inventoried property and nearest
intersection.
Indicate north.

see attached map

A 19292630/4681320
B 19293200/4681270
C 19292760/4680880

UTM REFERENCE _____

USGS QUADRANGLE MarlboroughSCALE 1:25,000

NATIONAL REGISTER CRITERIA STATEMENT (if applicable)

The Hopkinton Reservoir Dam and Spillway is significant for its associations with the Sudbury River water supply, the second source tapped by the Metropolitan Water Board. The dam and spillway are good examples of late 19th century water technology and design. The spillway is particularly outstanding. Constructed of large granite blocks and stones, it is sculptural in effect and almost appears to be a stream running through the woods. The dam and spillway possess integrity of location, design, setting, materials, workmanship and associations. It meets criteria A and C of the NRHP.

ARCHITECTURAL SIGNIFICANCE Describe important design features and evaluate in terms of other structures within the community.

The Hopkinton Dam and Spillway is located in the Hopkinton State Park in the southwest corner of the town of Ashland; it is south of the three Framingham Reservoirs (3-2, 3, 4) with which it is functionally and historically associated. The dam is an earthen embankment with a core wall of concrete resting on bedrock. That core is covered with earth and plastered, on the upstream side, with Portland cement. The entire structure is 20' wide. The dam is 20' at the top and on the water side is bermed, at 13' below the top of the dam, with a 6' wide full-length berm and riprap below the berm. From the berm to the top of the embankment, the dam is covered with granite blocks laid on broken stone. The outer slope has a 6' wide, 32' high berm and the entire slope is covered with 14' of loam.

The spillway begins at the west end of the dam with a 30' overfall. The spillway is 650' long and proceeds down hill via a series of substantial granite paved steps. The sidewalls are covered with rounded granite coping. The spillway has an unusual and handsome sculptural look that while manmade, has almost a natural look reminiscent of a brook coursing through the woods.

HISTORICAL SIGNIFICANCE Explain historical importance of structure and how the structure relates to the development of the community.

The Hopkinton Reservoir Dam and Spillway was built in 1891-94 as part of the Sudbury River supply and storage system begun in the 1870s with the three Framingham Reservoirs (3-2, 3, 4) and the Sudbury Aqueduct (Area B). The Ashland (4-3), Sudbury (see Area F) and Hopkinton Reservoirs and dams were constructed in the 1880s and 1890s as dams #4, 5, and 6 respectively to augment that system. The Hopkinton Dam was built across Indian Brook, forming a large reservoir to the south. The dam incorporates two gate chambers and a spillway extending eastward. The west gate chamber was connected to a 48" pipe which discharged water from the bottom of the reservoir into the overflow channel. The east chamber discharged water into filterbeds via a 36" pipe. A 36" pipe was also added to the east gate chamber in the anticipated 1927 water emergency, but never used. Oddly enough there is no evidence that gatehouses were ever built over the gate chambers. A 1910 photograph shows the dam and the gate chamber without a superstructure. Filterbeds designed by Desmond Fitzgerald were originally located at the base of the dam, but have long since been demolished; the area is now a sandy beach. The reservoir was turned over to the Commonwealth (Department of Environmental Management at present) for use as a state park. The dam and spillway were removed from service at that time.

VERBAL BOUNDARY DESCRIPTION AND JUSTIFICATION

The boundary of the dam/spillway is confined to the structures themselves and does not include any of the surrounding land. Large passive reservoirs such as the one formed by this dam have not been included for nomination due to their large size and lack of readily perceivable man-made features. The boundary is shown in red on the attached map, Plan of the South Sudbury Watershed, Metropolitan District Water Supply Commission and Dept. of Public Health. 1937. Scale 1" = 800'

BIBLIOGRAPHY and/or REFERENCES

- Internal Report. Desmond Fitzgerald to F. Stearns on the Sudbury River Works, 15 June 1898. pp. 19-21
- House Document 948, 26 January 1927, pp. 2-3, 6, 11-12.
- Boston Water Board, 31 January 1895, p. 7.
- Metropolitan Water Works, Sudbury Department, Photographs Vol 1, 6207-7651. 1907-1920.

**United States Department of the Interior
National Park Service**

National Register of Historic Places Continuation Sheet

Section number _____ Page _____

Water Supply System of Metropolitan Boston MPS
Middlesex, Norfolk, Suffolk and Worcester Counties, MASSACHUSETTS

DATE LISTED

COVER

Substantive Review

1. Ashland Dam and Spillway
2. Framingham Reservoir No. 3 Dam and Gatehouse **Substantive Review**
3. Framingham Reservoir No. 2 Dam and Gatehouse
4. Framingham Reservoir No. 1 Dam and Gatehouse
5. ~~Hopkinton Dam and Spillway~~
6. Lake Cochituate Dam
7. Medford Pipe Bridge
8. Middlesex Fells Reservoirs Historic District **Substantive Review**
9. Mystic Dam
10. Mystic Gatehouse **Substantive Review**
11. Mystic Pumping Station
12. Sudbury Aqueduct Linear District
13. Sudbury Dam Historic District
14. Weston Aqueduct Linear District
15. Fisher Hill Reservoir and Gatehouse
16. Forbes Hill Standpipe
17. Bellevue Standpipe
18. Chestnut Hill Reservoir Historic District
19. Marlborough Brook Filter Beds **Substantive Review**

[illegible]

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
EVALUATION/RETURN SHEET

REQUESTED ACTION: NOMINATION

PROPERTY NAME: Hopkinton Dam and Spillway

MULTIPLE NAME: Water Supply System of Metropolitan Boston MPS

STATE & COUNTY: MASSACHUSETTS, Middlesex

DATE RECEIVED: 12/05/89 DATE OF PENDING LIST: 12/19/89
DATE OF 16TH DAY: 1/04/90 DATE OF 45TH DAY: 1/19/90
DATE OF WEEKLY LIST:

REFERENCE NUMBER: 89002288

NOMINATOR: STATE

REASONS FOR REVIEW:

APPEAL: N DATA PROBLEM: N LANDSCAPE: N LESS THAN 50 YEARS: N
OTHER: N PDIL: N PERIOD: N PROGRAM UNAPPROVED: N
REQUEST: N SAMPLE: N SLR DRAFT: N NATIONAL: N

COMMENT WAIVER: N

ACCEPT RETURN REJECT 1/18/90 DATE Entered in the
National Register

ABSTRACT/SUMMARY COMMENTS:

RECOM./CRITERIA _____
REVIEWER _____
DISCIPLINE _____
DATE _____

DOCUMENTATION see attached comments Y/N see attached SLR Y/N

CLASSIFICATION

 count resource type

STATE/FEDERAL AGENCY CERTIFICATION

FUNCTION

 historic current

DESCRIPTION

 architectural classification
 materials
 descriptive text

SIGNIFICANCE

Period Areas of Significance--Check and justify below

Specific dates Builder/Architect
Statement of Significance (in one paragraph)

 summary paragraph
 completeness
 clarity
 applicable criteria
 justification of areas checked
 relating significance to the resource
 context
 relationship of integrity to significance
 justification of exception
 other

BIBLIOGRAPHY

GEOGRAPHICAL DATA

 acreage verbal boundary description
 UTM's boundary justification

ACCOMPANYING DOCUMENTATION/PRESENTATION

 sketch maps USGS maps photographs presentation

OTHER COMMENTS

Questions concerning this nomination may be directed to

_____ Phone _____

Signed _____ Date _____



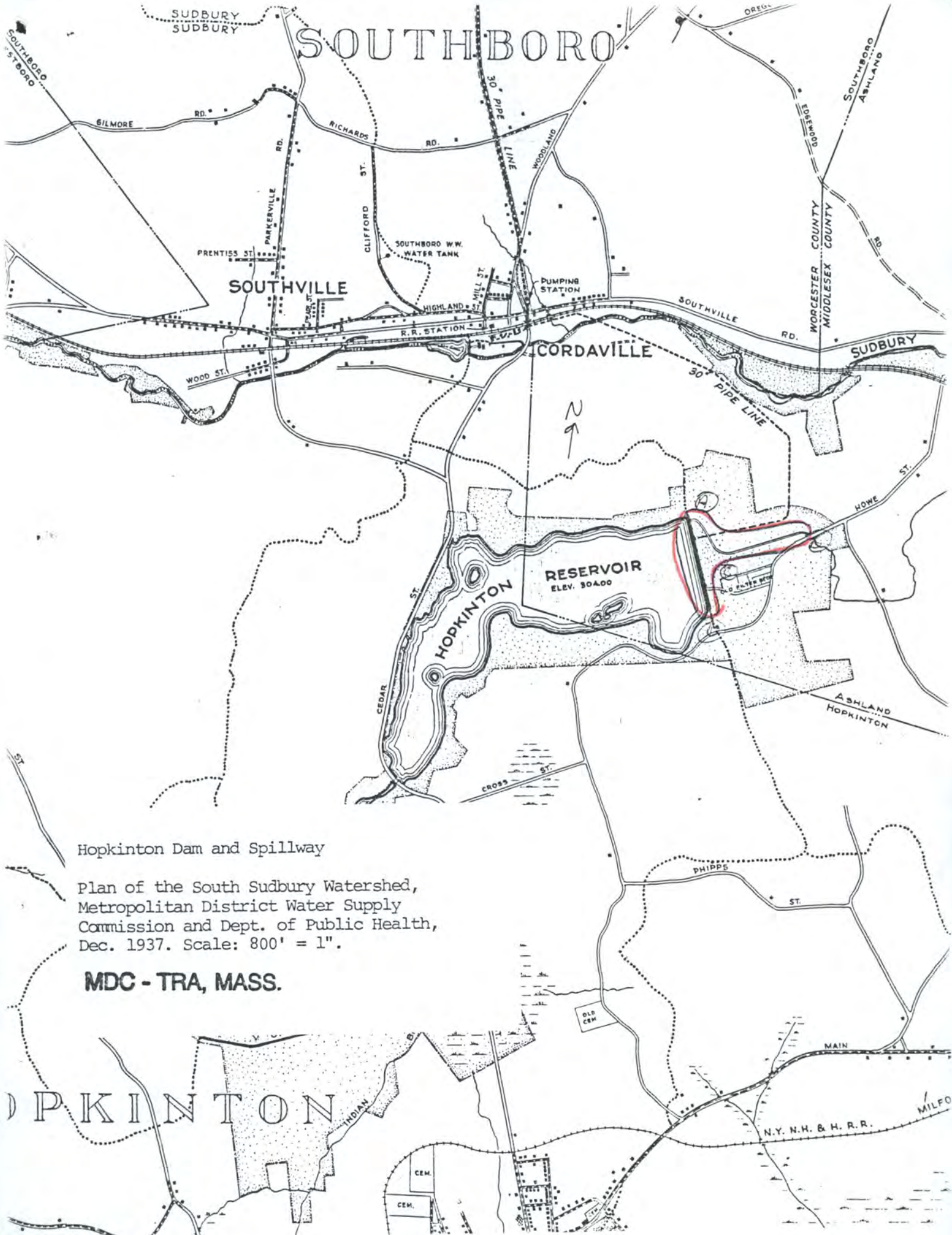
MDC - TRA, MASS.

^{Dan &} Hopkinton Reservoir Spillway, Ashland, MA.

Jane Carolan / Martha Bowers 1984

Louis Berger & Ass.

Water Supply System of Metropolitan Boston MPS, MA



Hopkinton Dam and Spillway

Plan of the South Sudbury Watershed,
Metropolitan District Water Supply
Commission and Dept. of Public Health,
Dec. 1937. Scale: 800' = 1".

MDC - TRA, MASS.

Please refer to the map in the
Multiple Property Cover Sheet
for this property

Multiple Property Cover Sheet Reference Number: 64500254