

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

| | |
|--------------------------------|--|
| Inventory No: | IPS.909 |
| Historic Name: | Choate Bridge |
| Common Name: | |
| Address: | |
| City/Town: | Ipswich |
| Village/Neighborhood: | Ipswich |
| Local No: | |
| Year Constructed: | |
| Architect(s): | |
| Architectural Style(s): | |
| Use(s): | Other Engineering; Other Transportation |
| Significance: | Archaeology, Historic; Engineering; Literature; Transportation |
| Area(s): | |
| Designation(s): | MA Archaeo/Historic Landmark (4/1/1966); Nat'l Register Individual Property (8/21/1972); Preservation Restriction (4/1/1966) |



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:

Friday, March 07, 2014 at 3:18: AM

FORM F – STRUCTURE (BRIDGE)

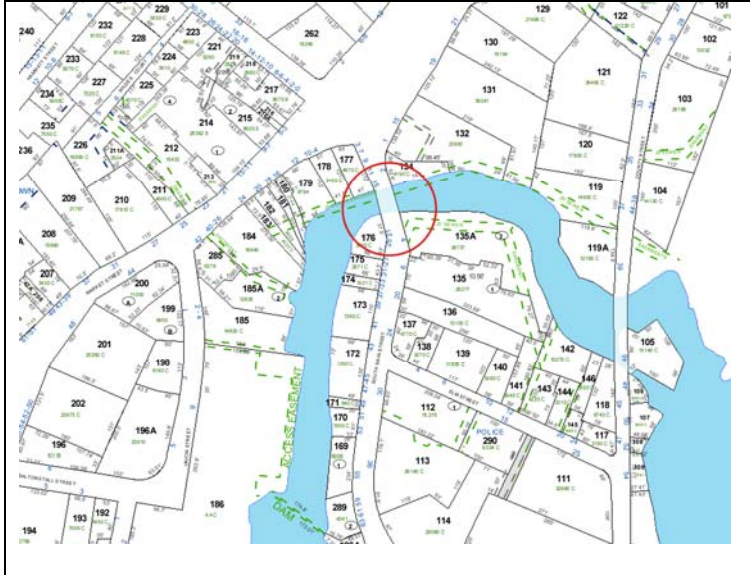
MASSACHUSETTS HISTORICAL COMMISSION
MASSACHUSETTS ARCHIVES BUILDING
220 MORRISSEY BOULEVARD
BOSTON, MASSACHUSETTS 02125

Photograph



1971 NR Photo, western elevation

Locus Map



UTM Reference: 19.349477.4726857 (WGS 84)
Recorded by: P.H. Stott *(transcribed from existing files)*
Organization: MHC
Date (month / year): November 2011

Assessor's Number USGS Quad Area(s) Form Number

| | | | |
|--|---------|--|---------|
| | IPSWICH | | IPS.909 |
|--|---------|--|---------|

MA/HL 4/1/1966 NRIND 8/21/1972 PR 4/1/1966

Town/City: IPSWICH

Place *(neighborhood or village):*

Street/Route: Route 1A

Carried over: Ipswich River

(Railroad, river, brook, canal or road)

Historic/Common name: CHOATE BRIDGE

Ownership: Town of Ipswich

(Name of state agency or municipality)

Mass. Highway bridge no.: I-1-2

Bridge type: stone arch

Bridge typology code 1 7 1 23

Date of Construction: 1764

Source: Date stone

Engineer/Designer:

Bridge company/Contractor:

Material (s): granite

Alterations *(with dates):* widened 15 ft on east side, 1838

Posted load limit *(if any):*

Condition: Good

Moved ☒ no ☐ yes **Date:**

Acreage: less than .25 acres

Setting: Picturesque historic town center, flanked by 19th-century brick and wood-frame commercial structures.

Superstructure:

| | | | | | |
|---------------------------|-------|--------------|------------------------------|-------|------|
| Overall length: | 80'6" | Deck width: | 35'6" | Skew: | none |
| Main unit: No. of spans: | two | Span length: | each 30' long at spring line | | |
| Approaches: No. of spans: | none | Span length: | | | |

Substructure (structure below deck)

| | | | |
|-------------------------------|-------------|---------------------------------|---------|
| Height above feature spanned: | approx. 10' | Material of abutments or piers: | granite |
|-------------------------------|-------------|---------------------------------|---------|

☐ Recommended for listing in the National Register of Historic Places.
If checked, you must attach a completed National Register Criteria Statement form.

Listed 1972

ENGINEERING/DESIGN ASSESSMENT

Describe important design features and evaluate in terms of other bridges within the community or region.

See attached HABS and HAER documentation

HISTORICAL NARRATIVE

Explain the history of bridge and how it relates to the development of the community.

See attached HABS and HAER documentation

BIBLIOGRAPHY and/or REFERENCES

See attached HABS and HAER documentation

* MASSHIGHWAY HISTORIC BRIDGE INVENTORY *

Town/City: Ipswich

MHD Dist.: 4

Facility Carried: ST 1A, South Main Street

over

Feature Intersected: Ipswich River

Structure No: MUN 513 058 101

Photo Nos.: Dist. 5 photos

BDEPT No.: I-1-2

B.I.N.: 2PQ

AASHTO Rating (date): 66.6 (10/19/94)

Common/Historic Name (source): Choate Bridge (datestone)

National Register Eligibility Finding (by/date): H* (NPS; 8/21/72 and 9/17/80)

* individually listed in 1972; listed as a contributing structure within the South Green Historic District in 1980. Certified as a Massachusetts Historic Landmark 4/1/66.

Year Built (source): 1764 (datestone; Waters, "Ipswich River")

Years Rebuilt (source): 1838, widened on east (Waters, "Ipswich River"); 1989, rehabilitated

Builder (source):

Designer (source):

Structural Type/Material: 811 (s.v.)

2 simple spans, semi-elliptical(?) stone arches. Both spans ca. 30'-6" clear span; both arches rise ca. 9' from spring lines. Original 1764 arches measures ca. 20' wide; 1838 extension added ca. 16' on easterly side. 1764 arch sheeting is composed of mortared (lime and sand), coursed, roughly squared stones of modest size, apparently surface-split and roughly dressed; the visible original (western) spandrel wall is built of mortared, larger-sized broken rubble, heavily chinked. The arch sheeting of the 1838 extension is composed of dry-laid, coursed, large-block, quarried granite blocks (semi-cylindrical drill marks); the 1838 (eastern) spandrel wall is built of large-block, drilled/split rubble. Prior to 1989 rehabilitation, both spandrel walls, in particular, showed evidence of later repointing.

There are ca. 3'-high mortared stone parapets, built of roughly coursed smallish stones and capped by double-pitched wooden copings, on both faces of the bridge; the westerly parapet is presumed to date from 1764, the easterly from 1838 (both with numerous later repairs).

It is not known if the present, ca. 8' long, stone cutwater on the upstream nose of the pier is part of the original 1764 construction or a later addition.

Structure Length: 72'

Length of Maximum Span: 30'

Skew: -

Deck Width (out-to-out): 36.7'

Main Unit, No. Spans: 2

Lengths: 30'

Approaches, No. Spans: -

Lengths: -

Plaque: 1764 datestone

Location: S end, W parapet

Alterations, unusual features, comments:

An 18" utility line runs along the river bank and passes under the northerly span next to the northerly abutment.

A utility line formerly mounted on the westerly fascia of the bridge, and another formerly carried on a separate structure adjacent to the easterly fascia, were relocated into the arch fill during the 1989 rehabilitation.

A 1948 proposal to widen the bridge with a stone-faced reinforced concrete extension was not carried out.

Visual Quality (bridge/setting): High ☐ Average ☒ Low ☐

Site Integrity: Retained ☐ Lessened ☒ Violated ☐

Site Description:

In downtown Ipswich, with a couple of 19th century wooden commercial buildings tucked up against its abutments on the west, a ca. 1900 brick-and-frame commercial building to the northeast, and an open parking area fronting a colonial-period house to the southeast. Ca. 1880s Caldwell Block to NW is a good, relatively well-preserved Italianate commercial design; is individually NR-listed.

History of Bridge and Site:

The present stone arch bridge replaced the last in a series of wooden bridges which had spanned the Ipswich River here since at least as early as 1641. A town committee appointed to review the last of these timber bridges in 1764 reported that the existing bridge was in need of thorough repair and "is now by six or eight feet too narrow for safe passing for horses and carts and other carriages which meet one another." This committee recommended construction of a replacement bridge of 20' width, comprised of four corbelled stone slab spans sandwiching a wider central opening spanned by timber stringers. The town presented this proposal to the Court of General Sessions which appointed its own committee to review the situation. This committee reported that they considered "it will be most for the public service" that the new bridge be a two-span stone arch structure, each span about 30' clear. The town and the county accepted this decision and agreed to split the expense of the new bridge. Col. John Choate, an influential Ipswich resident who had been active in the drive to approve the new bridge, oversaw its construction in the summer and fall of 1764. The completed bridge was named in his honor by order of the General Court.

Sources: Thomas F. Waters, "Ipswich River: Its Bridges Wharves and Industry," 1922.

BH: Y

RR: Anderson-Nichols, 1978; Purcell, 1988

Plans: 1948 proposed extension (Cab. 148/15)

OBH: 1928 photos

Other: HAER MA-81, A.G. Lichtenstein and Assocs., 1988

Summary Statement of Significance:

The oldest currently known bridge in Massachusetts with a solidly documented date of construction; the second-oldest documented bridge currently known in the United States (the 1697 Frankford Avenue stone arch bridge in Philadelphia is the oldest). One of some 250+ bridges/culverts in the MassHighway bridge database currently known to be examples of the stone/brick arch structural type. Notable as an unusually well-preserved example of typical, 18th century masonry arch construction, even including some surviving, apparently original, lime/sand mortar in the arch barrel, and at least one (the westerly) original stone parapet (or "guard wall"). A perfect illustration of the evolution of stone masonry technology in the 18th and 19th centuries – the smallish, roughly squared ring stones of the original 1764 arch are moderately well-finished examples of a typically 18th century (or earlier) surface-cutting masonry technology, while the massive, drilled/split granite blocks, left unfinished, which form the arch ring of the 1838 extension are evidence of a typically 19th century, sub-surface quarry-based technology.

Located in the heart of downtown Ipswich next to an NR-listed 1880s commercial block, and within the boundaries of the NR-listed South Green Historic District.

Statement Prepared By: S.J. Roper, MassHighway Historic Bridge Specialist

Date: 4/28/98

Field Survey By: Dist. 5

Date:

HISTORIC BRIDGE INVENTORY & EVALUATION

CHOATE BRIDGE

Date: February 25, 1980Municipality Ipswich S.H. N.S.H. XStreet Name & Route # Route 1AOver Ipswich RiverStreet Name & Route # So. Main St.Bridge No. I-1-2 Bridge Key # 041-513-058 Dist. 5CRITERIA FOR DETERMINATION OF HISTORIC SIGNIFICANCEI. Builders ContributionQuantityUnknown X Several Many
(1-10) (10 or more)Name of Builder: UnknownDesigner: Plaque: Yes No. X
(1764)II. AGE: Pre 1850 X 1850-1900 1900-1930 III. TECHNICALBridge Type Stone Arch - doubleBridge Width 55Total Length of Bridge 68Number of Spans: 2 Span Lengths 40'Patented: Yes No Unknown XLoad Carrying Capacity: Adequate X Inadequate Configuration: Unique X Unusual Common

Types of Materials:

Stone

Deck Bit. over Stone (Concrete)?

List Special Features and Modifications:

Rebuilt 1839

Rebuilt 1948

- on National Register

- Mass. Historic Landmark

IV. ENVIRONMENTAL

Aesthetics: Unusual _____ Good X Common _____
 Site Integrity: Retained X Violated _____
 History of Bridge and Area: _____

V. ECONOMICS

Owner: Municipal X County _____ State _____ Federal _____
 R.R. _____

What is your recommendation?

Maintenance X Replacement _____ Rehabilitation _____

Are materials available for Rehabilitation: Yes _____ No _____

Is structure scheduled for replacement? Yes _____ No _____

VI. PHOTOS - INDICATE SHOTS TAKEN

- | | |
|------------------------|------------------------|
| <u>X</u> 1. Setting | 6. Elevation |
| 2. Builders Plaque | 7. Joint & Connections |
| 3. 3/4 View | 8. Machinery |
| <u>X</u> 4. Thru View | 9. Decorative Features |
| <u>X</u> 5. Under View | |

VII. COMMENTS & CONCLUSIONS

1. In your judgement, does this bridge have historic value? Yes ___ No ___
2. Please explain your answer to #1

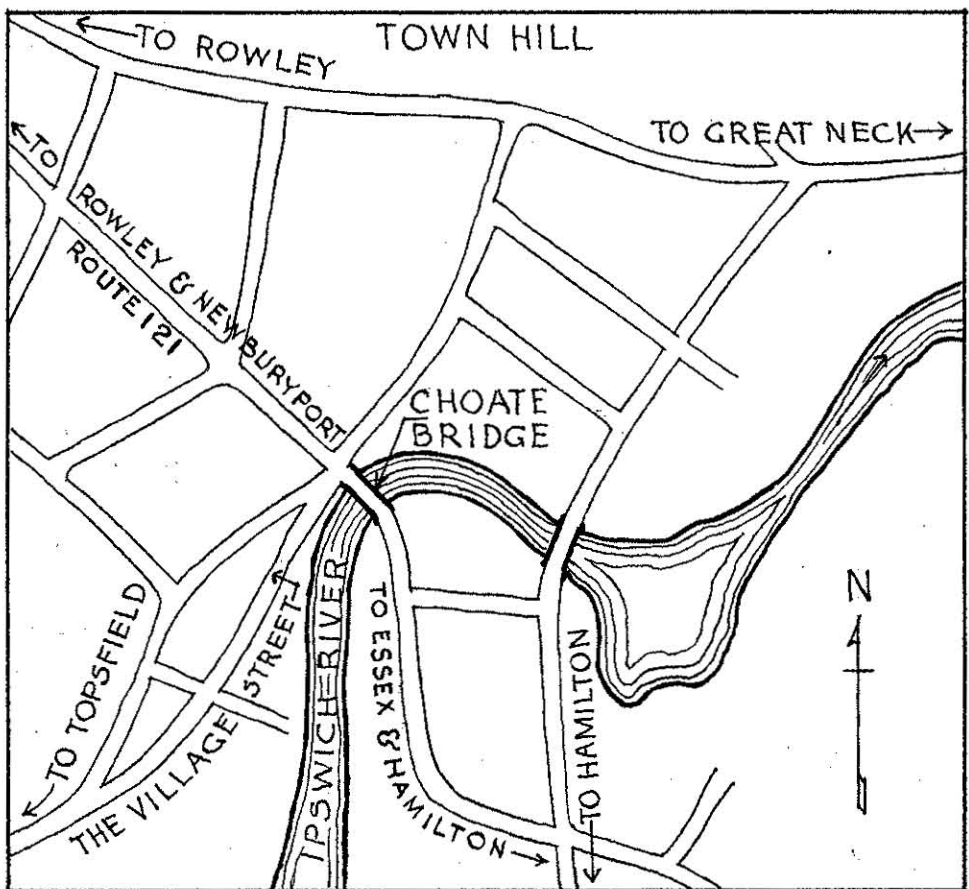
3. Additional Comments required on back of page.

Preparer: _____
 Title: _____
 Date of Survey: _____

INCLUDE TOPO SHEET SHOWING LOCATION

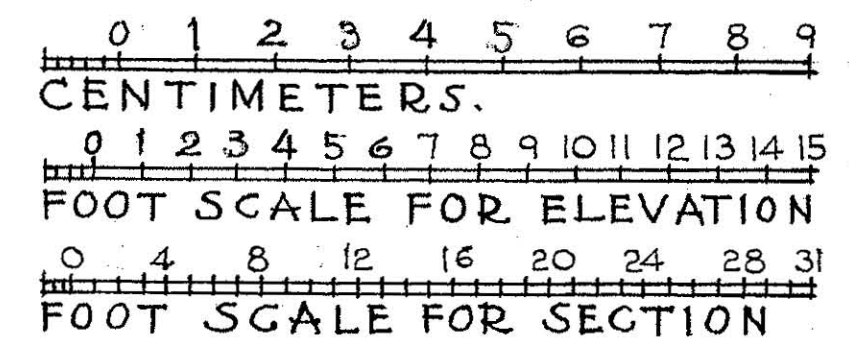
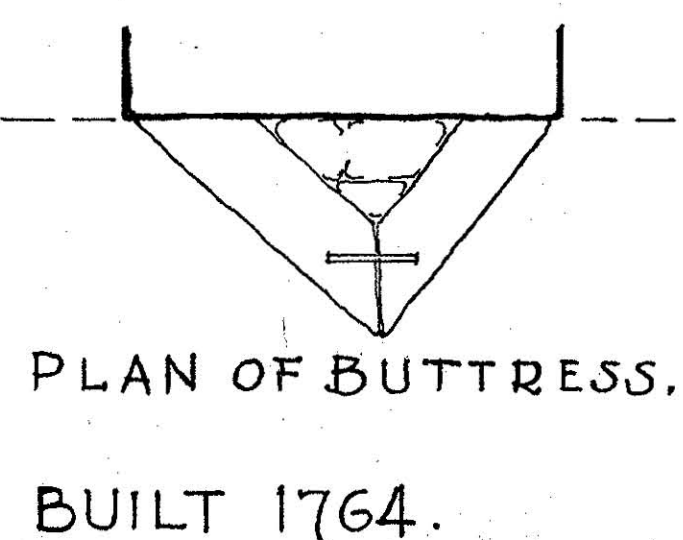
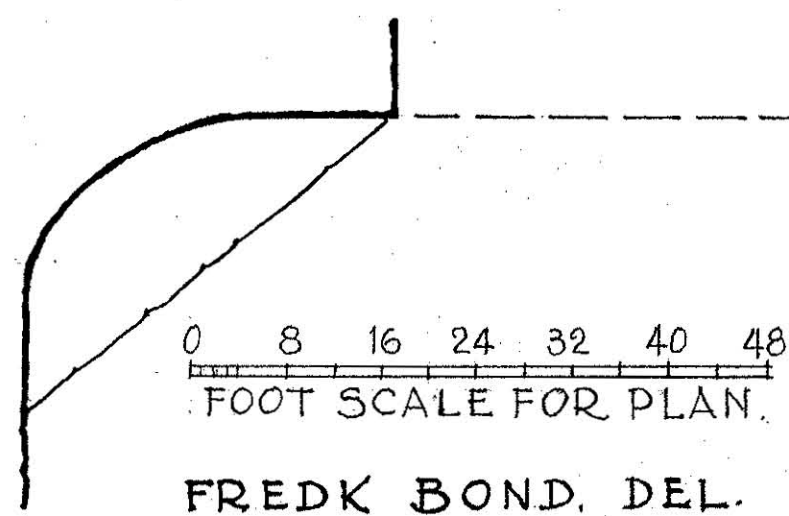
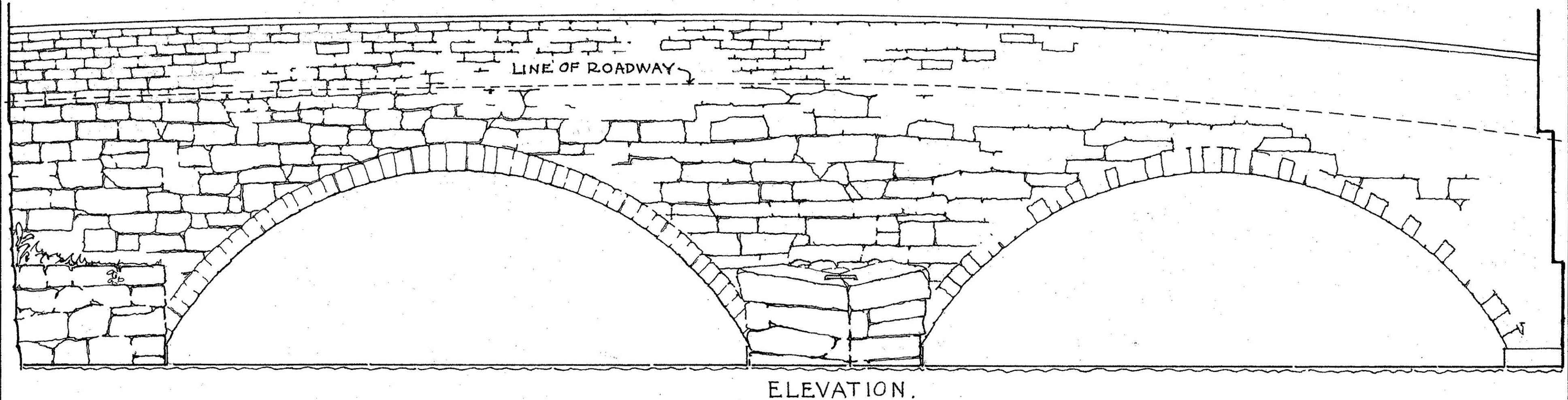
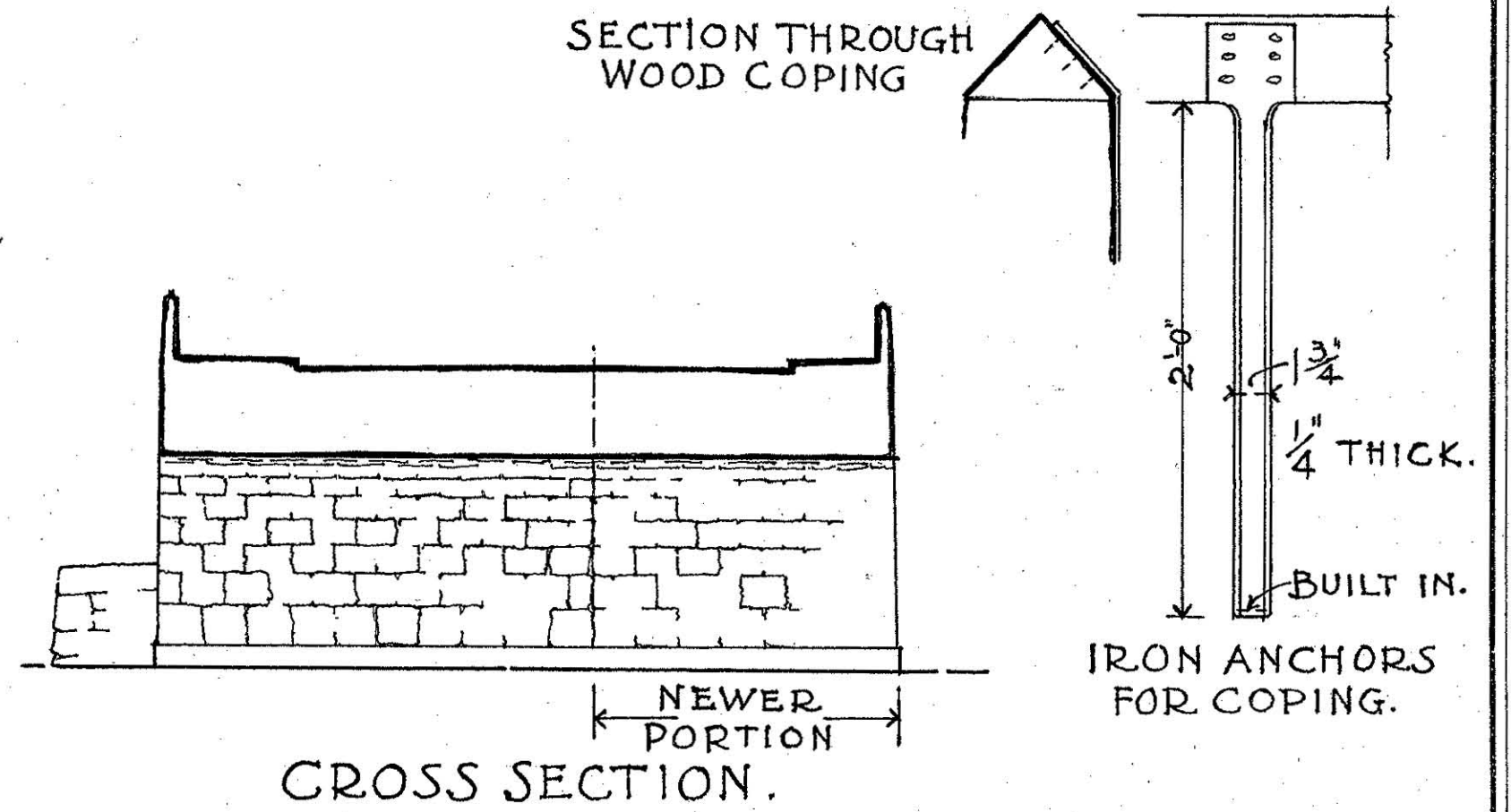
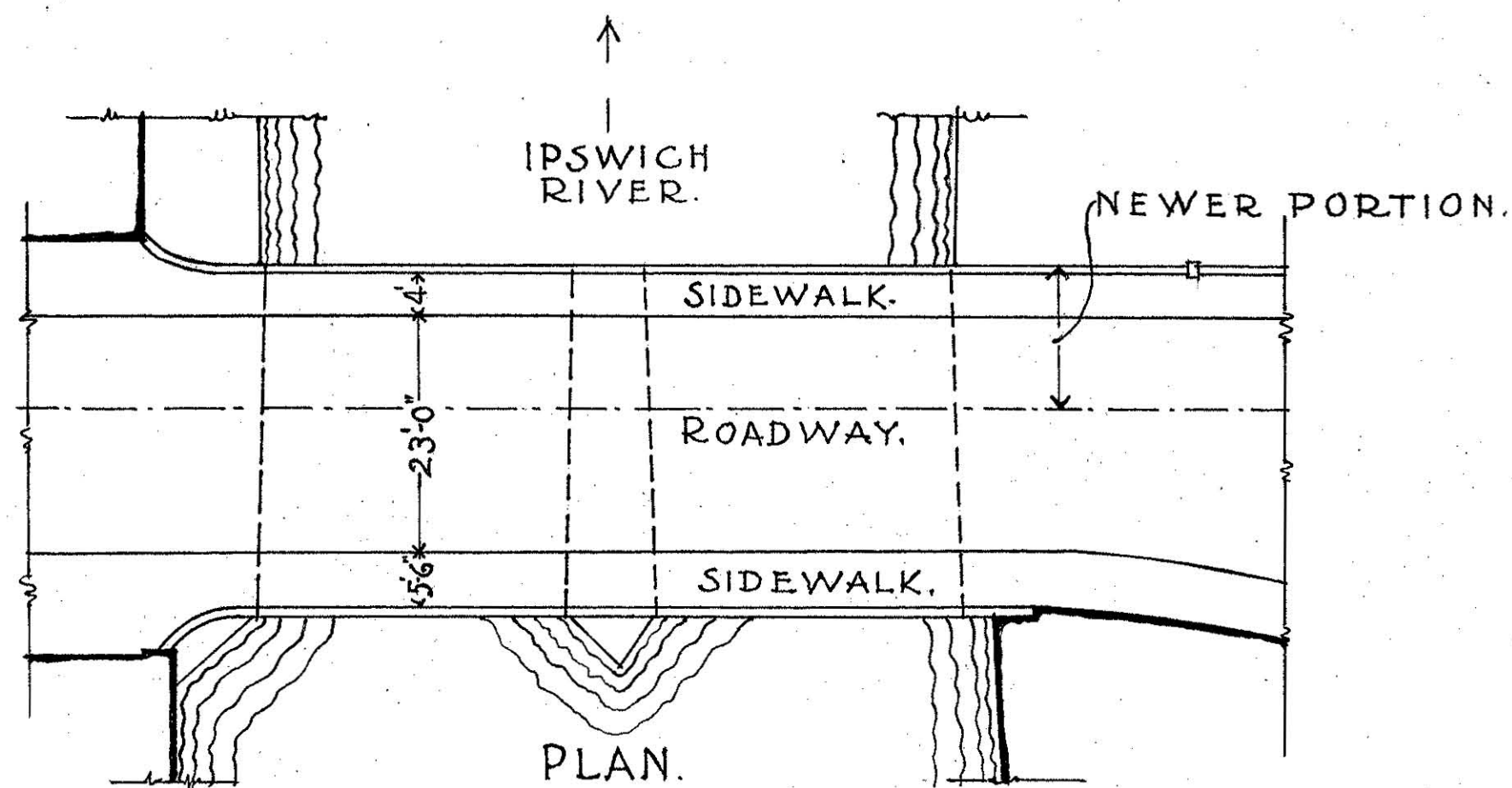
CHOATE-BRIDGE

IPSWICH-MASSACHUSETTS



SKETCH MAP SHOWING LOCATION

BUILT 1764



U.S. DEPARTMENT OF THE INTERIOR
OFFICE OF NATIONAL PARKS, BUILDINGS, AND RESERVATIONS
BRANCH OF PLANS AND DESIGN

NAME OF STRUCTURE
CHOATE BRIDGE, IPSWICH, ESSEX COUNTY, MASS.

SURVEY NO.
2-69

HISTORIC AMERICAN
BUILDINGS SURVEY
SHEET 1 OF 1 SHEETS

INDEX NO.
MASS.
5-173W1
8

Choate Bridge
Ipswich, Massachusetts

MASS-2-69

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

District of Massachusetts

Historic American Buildings Survey
Frank Chouteau Brown, District Officer
Boston, Massachusetts

HISTORIC AMERICAN BUILDING SURVEY



Historic American Buildings Survey Arthur C. Haskell, Photographer April, 1934
Ext- View of west side
HABS MASS,5-IPSWI,8-1

HISTORIC AMERICAN BUILDING SURVEY



2-69(b)

Historic American Buildings Survey Frank O. Branzetti, Photographer Nov. 1, 1940.
VIEW OF EAST SIDE
HABS MASS,5-IPSWI,8-2

Choate Bridge
South Main Street
Spanning the Ipswich River
Ipswich
Essex County
Massachusetts

HAER No. MA-81

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

Historic American Engineering Record
National Park Service
Department of the Interior
Washington, DC 20013-7127

CHOATE BRIDGE
HAER No. MA-81 (Page 1)

HISTORIC AMERICAN ENGINEERING RECORD

CHOATE BRIDGE
HAER MA-81

Location: South Main Street, Spanning the Ipswich River, Essex County, Massachusetts.

Date of Construction: Original bridge, 1764. Widened, 1838.

Present Use: Vehicular bridge.

Significance: The Choate Bridge is an example of early stone construction in the history of American road building. The Essex County Court voted in December, 1764 to name the bridge in honor of Col. John Choate, who supervised construction.

The bridge originally measured 80'6" long and 20'6" wide in 1764. In 1838 the bridge was widened to 35'6" on the east side. The west side and parapet of the bridge, along with the inscription to Col. Choate, remain unchanged.

Other documentation on this bridge can be found under HABS No. MA-2-69.

Sources: National Register of Historic Places nomination form, "Choate Bridge," compiled by Anne Wardell, March, 1971.

Poppeliers, John C., ed. Historic Buildings of Massachusetts. New York: Charles Scribner's Sons, 1973.

Historian: Robert Buerglener, HABS, July, 1988.

It is understood that access to this material rests on the condition that should any of it be used in any form or by any means, the author of such material and the Historic American Engineering Record of the National Park Service at all times be given proper credit.

HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

Choate Bridge
South Main Street
Spanning the Ipswich River
Ipswich
Essex County
Massachusetts

HAER No. MA-81

Jet Lowe, HAER Photographer, August, 1986.

| | |
|---------|---|
| MA-81-1 | West side of bridge |
| MA-81-2 | Detail showing center pier, west side of bridge |
| MA-81-3 | East side of bridge |
| MA-81-4 | Detail showing date and name stone, southwest end of bridge |
| MA-81-5 | General view looking north across bridge deck |

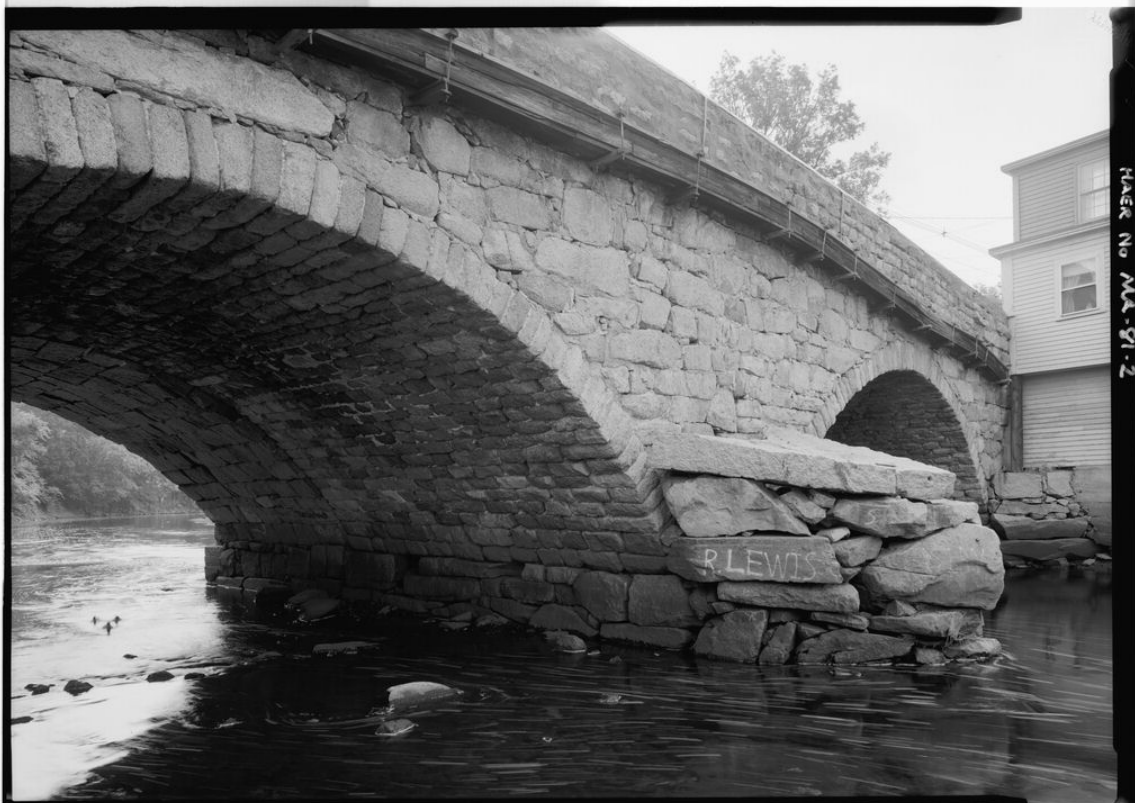
HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-1



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-2



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-5



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-6



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-5



Addendum to

Choate Bridge

Spanning the Ipswich River

on Massachusetts State Route 1A

Ipswich

Essex County

Massachusetts

HAER No. MA-81

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

Historic American Engineering Record
Mid-Atlantic Regional Office
National Park Service
U.S. Department of the Interior
Philadelphia, Pennsylvania 19106

HISTORIC AMERICAN ENGINEERING RECORD

HAER
MASS
5-IPSWICH
8-

Addendum to

page 2

Choate Bridge

HAER No. MA-81

One page of documentation was previously submitted to the Library of Congress.

Location: Spanning the Ipswich River on Massachusetts State Route 1A
Ipswich, Essex County, Massachusetts

UTM: 42 40'44"N, 70 50'16"E
Quad: Ipswich

Date of Construction: 1764. Widened in 1838

Present Owner: Town of Ipswich
Town Hall
Ipswich, Massachusetts 01938

Present Use: Two-lane vehicular bridge with no tonnage limitation.

Significance: Choate Bridge ranks among the eldest, if not the oldest, extant bridges in Massachusetts. Built in 1764 to replace a succession of earlier timber spans, it survives basically unaltered with two elliptical stone arches and a battered stone parapet or "guard wall." The bridge is representative of period technology. It was widened to its present 35 feet 6 inches in 1838. The bridge was individually listed in the National Register of Historic Places on August 21, 1972.

Project Information: A. G. Lichtenstein and Associates (17-10 Fair Lawn Avenue, Fair Lawn, N.J. 07410), was engaged by the Town of Ipswich to document the bridge. The narrative was prepared by Mary E. McCahon of AGLAS, with assistance from Mrs. Mary Conley, Ipswich Historical Commission. Martin Stupich was the photographer, and Abba G. Lichtenstein supervised the project, completing it in July 1988.

Choate Bridge
 HAER No. MA-81
 (Page 2)
 3

Choate Bridge is located on Massachusetts State Route 1A, the historic main, north-south roadway along the north shore, where it crosses the tidal portion of the Ipswich River in the center of Ipswich. The bridge has a total length of 80'6" and is composed of two elliptical arches, each 30' long at the spring line and with an approximately 9' rise between the spring line and crown. It is 30'6" wide and accommodates 2-lane vehicular traffic [see HAER Photographs No. MA-81-12 and MA-81-13]. The westerly (original) portion was constructed in 1764 of random-coursed, granite, ashlar blocks [see HAER Photograph No. MA-81-14]. In 1838, a 15-foot-wide extension of similar construction was added to the east, or downstream, side [see HAER Photograph No. MA-81-8]. The bridge is flanked on the northwest corner by the handsome 1880s Italianate-style Caldwell block [see HAER Photograph No. MA-81-13] and on the southwest by an early-nineteenth century, two-story, frame building with storefronts on the first level [see HAER Photograph No. MA-81-12]. Both structures are built to the street, and the gently curving bridge parapet extends to their foundations [see HAER Photographs No. MA-81-14, MA-81-16, and MA-81-19]. A ca. 1900 brick and frame commercial building and rubble-coursed retaining wall occupy the northeast corner, while the southeast corner is open [see HAER Photograph No. MA-81-11]. The buildings adjacent to the bridge are stylistically representative of those in the center.

Ranking among the oldest, if not the oldest, bridges in the Commonwealth, Choate Bridge has been in continuous use since 1764, and it survives in a remarkably complete state of preservation, and the more significant, owing to its location on a major arterial highway that carries a heavy volume of commercial truck traffic. With the exception of the addition of a twentieth-century utility box and water main, the bridge has apparently not been modified since the 1838 widening, making it a complete and unaltered example of mid-eighteenth century bridge technology.

The Ipswich River was crossed by a bridge near or at this site as early as 1641 (Waters, Ipswich River, p. 12). Local historian Thomas Franklin Waters carefully chronicled the history of the crossing in a paper entitled Ipswich River, Its Bridges, Wharves and Industries, published posthumously by the Ipswich Historical Society in 1922. The first specific mention of a cart bridge across the river is in the town Minutes of January 4, 1647, where the names of those who agreed to provide two days work for the privilege of using the "cart bridge," was listed. In March, it was "ordered that the Surveyors shall take care to make good the passage at both ends of the Cart Bridge sufficient for passages of horses and carts soe soon as () carpenters have made it capable" (Ibid., p. 12).

By 1662, a new bridge was needed, and the Quarter Sessions Court appointed John Appleton and Jonathan Wade to compute the cost and construct it. On June 24, 1662, they reported that the replacement span would cost about 80 pounds, and that work was already underway. An item in the 1693 town accounts of "trying to save the old bridge" suggests that the 1662 bridge was damaged, possibly by a freshet in the river. Salvage efforts were not successful, for in September 1683 the Essex County Court received an itemized bill from John Appleton and Nehemiah Jewett for a new bridge.

Choate Bridge
HAER No. MA-81
(Page 3)
4

The longevity of wooden or timber bridges was not great, and by 1700, the 1683 bridge was in poor condition. On May 9, the town voted that "Coll. John Appleton Esq. & Col. Jno Wainwright Esq., Major Francis Wainwright, Lieut John Whipple & Mr. James Burnham be a committee to consider what way be most proper in regard to our "Great Bridge" (Ibid., p. 14). Again, in 1719, the Selectmen were instructed to "provide a suitable foot bridge over the River with all convenient expedition and also what they wait on the next Quarter Sessions to consult and advise with them about the erecting a new bridge" (Ibid., p. 14).

In 1764, the volume of traffic over the county road serviced by the bridge had become so great that yet another, wider replacement span was needed. The genesis of new bridge is well documented in the minutes of the town county court, which illustrated the influence of John Choate, as well as the desire of both the town and General Court to achieve a more lasting solution to the crossing problem.

On March 6, 1764, the town meeting appointed a committee, which included John Choate, and charged them with "considering" the bridge affair and making a report to the members. Ten days later, on March 16,

The Committee appointed to review the Town & County bridge over Ipswich River in this Town, have attended that service and report that the said bridge is in such circumstances that it will not afford safe and convenient travelling over it for any long time without a thorough repair and that it is now by six or eight feet too narrow for safe passing for horses and carts and other carriages which meet one another. They are therefore of opinion that the said bridge be with all convenient speed repaired and made 20 feet wide between the rails the one half the whole cost of such repair to be born by this Town on consideration & Hon. Court of Gen'l Sessions of the Peace will agree to such repair & order the other half of such charge to be born & pd. by the county and committee further report that it would be built on the whole cheapest if suitable (sic) floor stones can be obtained and the said court wi.l agree to it that the said bridge be repaired with stone in the following manner and degrees. Viz. That the two abutments already built in the said bridge be [] further into the river not exceeding three foot each and that there be two pillars of stone not under nor more than five feet thick raised at each end of said bridge the first of which to be eleven or twelve feet from said abutment and the next the same distance from that toward the center of the river so that the two pillars next center shall save a passage for the ice and water between them not less than 28 or more than 30 feet wide and that the whole 4 pillars be carried up to convenient height with both sides jettted over toward each other when above the water so as to make the opening a top over each sluice as narrow as with safety to such abutments may be done. That those sluices except the middle one be covered with proper floor rocks and the middle one with a set of strings and planks of a suitable length and width and as it is apprehended this middle passage may be reduced to 22 or 24 feet wide at top it will of course reduce the wood covering of said bridge to one quarter of width is now and perhaps after a tryall all of this will be found best to reduce the whole to stone which may be done by one pillar more being raised in the middle sluice. They therefore propose that a committee be appointed to apply to the Honorable Court of Session to be holden in the Town the next week praying them to agree to the term above proposed and also

Choate Bridge
HAER No. MA-81
(Page 4)
5

in consort with such a committee at the said Court shall appoint for the purpose to procure any necessary materials and accomplish said work as soon and with as much dispatch as they conveniently can.

John Choate

And thereon voted that John Choate, Aaron Potter Esq., Capt. Isaac Smith, John Appleton & Isaac Dodge be a committee fully authorized and impowered for the purposes above.

The local Ipswich committee was successful in gaining a hearing before the Court of General Session, and at its deliberations held the last Tuesday in March of 1764, the Court

On reading the petition of a committee of the town of Ipswich showing that the bridge over the town river on the great county road is in such circumstances that it wants a thorough repair from the foundation and proposing that it be repaired some part with stone all the charge of the county & said town in equal halves and praying said court will pass an order for rebuilding said bridge in such a manner as is proposed by said town or such other manner as the Court shall see meet. Thereupon it is ordered that Caleb Cushing, Nath'l Roper, Benja. Mulliken, Nathan Brown and Nathan Bowen Esq. be a committee to inquire into the matter View of the said bridge and make report to the Court as soon as may be. And the said committee made report this same term in the words following. Viz...We have viewed the bridge there in mentioned & find the same in a ruinous and unsafe condition & must [] rebuild and are of opinion that it will be most for the public service that the same be rebuilt wholly of stone of not less than 20 feet wide within the rail, in manner following. Viz: The two end abutments to be extended so far into the river as to leave about 68 feet space between them, that in the middle of said river be erected abutment about 20 long & about 8 feet wide that from the said middle to the [] abutment an arch be turned so as to leave about 30 feet for the passage of water under each arch which we apprehend will at all times be sufficient therefore. That the interstices be filled up and fitted for public use and that the said bridge be properly secured by rails on each side and for effectuating that work a Committee be appointed by this court who with such persons as the town of Ipswich in equal halves and that the committee or the major part of them from time to time draw out of the respective treasury as it may be wanted for that service the committee to be accountable to the said county and town respectively.

Choate was selected as one of the Ipswich representatives, and all freeholders and inhabitants of the town were requested to attend a meeting on April 10, 1764, to respond to the Court's decision to rebuild the bridge in stone. John Choate was voted moderator of the meeting, and after consideration and debate, the stone bridge "passed in the affirmative by a large majority" (Minutes, April 18, 1764).

Work proceeded through the summer under the supervision of John Choate, who was absent from his judicial seat from June 17 through October 26. On September 10, the freeholders and inhabitants voted to build a stone "wall guard" not to exceed fifteen inches at the bottom and nine inches at the top and about three feet high. Work was apparently completed by November, as subsequent town meeting minutes contain several items authorizing payment for the bridge.

Choate Bridge
HAER No. MA-81
(Page 3)
6

John Choate (1697-1768), for whom the bridge was named by order of the Court of General Sessions, in recognition of the "great Care and Assiduity of the Honorable John Choate, Esq. (Wardell), as a man of considerable influence and standing in Ipswich. A lawyer by profession, he was continuously elected as one of the two Ipswich representatives to the Massachusetts General Assembly from 1731 to 1750, as well as in several subsequent years. He served simultaneously as judge of the Court of General Sessions, Chief of the Court of Common Pleas, a town moderator, county treasurer, and a member of the Governor's Council (1761-1768) as well as one of the founding members of South Parish, a new congregation established in 1747 on the south side of the Ipswich River, or Town River as it is sometimes identified in period documents. Choate's house is not extant. It was located on the South Main Street site of the Whipple House, which was moved there in 1934 and currently serves as the headquarters of the Ipswich Historical Society.

When and how John Choate, the respected lawyer and successful public official, acquired his technical knowledge about masonry construction is not definitely chronicled. Tradition holds that Choate became familiar with stone structures as a result of his military service during the French and Indian wars (Wardell). In 1745, during King George's War (1744-1748), he joined Governor William Shirley's largely Massachusetts-supported campaign against the French and their fort at Louisburg on Cape Breton Island. The somewhat naively conceived and prepared was nevertheless successful, and the much-feared masonry fortification was captured and dismantled. Choate was enrolled as a "Colonel and Captain of the First Company of the 8th Massachusetts Regiment" (Waters, p. 164). Experience in putting up rather than taking down masonry structures may have been gained in 1756 when, again as part of Shirley's forces, the 59-year-old Choate served at Albany forwarding stores and supplies during the New York campaign. It was no doubt as a result of John Choate's considerable stature and influence that the "great bridge" on the "great county road" was built as a stone arch span, adding prestige as well as permanence to the crossing and the community, but how much of the specific mechanics of the undertaking were contributed by Choate remains undocumented.

An interesting account of the bridge was published in the August 7, 1888, edition of the Boston Evening Transcript, some 125 years after it was completed. Although a somewhat romanticized and exaggerated interpretation, the article demonstrates the reverence in which the bridge was held by a society beginning to appreciate its colonial past as well as the man who is remembered as being most responsible for its construction. Report that

the plan of building the Bridge of stone was his own and it had little support from others. The people did not believe that a stone bridge could be made to stand on that soil. Looking at the spot today, their want of confidence does not seem reasonable. Then, again, they did not believe that the money appropriated would prove sufficient for accomplishing the work; last of all, the idea prevailed that, even if it were possible, Colonel Choate was not the man to do it.

There is a good deal of historical and traditional interest connected with that Old Bridge as closely as the mosses cling in the chinks of its uncemented stones. We are able to fix the season, the length of time, as well as the year in which it was built. The records of the General Court show that Colonel Choate was not in attendance upon its sessions from June 17, 1764, to October 27, following. This absence is accounted for when we learn that in this year he built the Bridge.

Choate Bridge
HAER No. MA-81
(Page 6)
7

The article goes on to recount a story about Choate being on the north side of the bridge, ready to flee to Canada, if the bridge collapsed as the falsework was being removed.

It is probably quite true that Choate, the prime mover of the stone arch bridge concept, was confronted with some nay-sayers, but the fact that previous timber spans were relatively shortlived and requiring of continual maintenance and that the freeholders and inhabitants of Ipswich "passed (the resolution to build the stone arch bridge) in the affirmative by a large majority" suggests that the account of overwhelming skepticism to Choate's plan was exaggerated. While stone arch masonry bridges were not technically innovative in the mid-eighteenth century, it is noteworthy that such a monumental span was undertaken on the local level.

The handsome, well-constructed, dry-laid ashlar bridge was both an immediate and continued engineering marvel. In 1884, the town of Ipswich, as part of its 250th anniversary of its founding, published a poem reportedly composed by Mr. Clark from Rowley, Massachusetts, in 1764, in honor of Choate's completion of the bridge.

Behold this bridge of lime and stone!
The like before was never known
For beauty and magnificence,--
Considering the small expense.

How it excels what was expected,
Upon the day it was projected!
When faithful men are put in trust
They'll not let all the money rust.

But some advance for public good
Is by this fabric understood;
And after this is will be wrote
In honor of brave COLONEL CHOATE!

It was his wisdom built the same,
And added lustre to his fame,
That filled this country with renown,
And did with honor Ipswich crown.

Choate Bridge was the first of five stone bridges built in Ipswich during the eighteenth and nineteenth centuries.

In 1829, Ipswich and Essex County officials began to consider plans for widening the bridge. Nothing was done until 1834 when Joseph Wait and 194 others came before the town asking that in addition to widening the bridge, the town should purchase the Joseph L. Ross property at the northeast corner and remove the house, barn and blacksmith shop, so that the road up the hill into the center could also be widened.

Choate Bridge
 HAER No. MA-81
 (Page 7)
 8

In 1836, the town and county agreed to widen Choate Bridge 15" 6" by an addition to the east side in a manner nearly identical to that used in 1764. The town voted to be liable for no more than \$1,200 for their portion of the widening project, but contentions arose as to the location of the road and the widening of the bridge with a variety of makeshift proposals by the town to avoid its share of the expense. The town's efforts were in vain, and the bridge was widened in 1838. The county ordered Ipswich to pay its portion (\$1,037.50) in January 1839 (Waters, p. 696-697).

Although there have been periodic repairs, Choate Bridge survives basically unaltered since the 1838 widening. The western side, with its handsome, drylaid intrados of rusticated ashlar blocks and parapet, battered on the interior face, is particularly complete, including the retention of the beveled wooden coping anchored by iron straps that is clearly shown on Mary Jane Derby's ca. 1820 sketch [see HAER Photograph No. MA-81-17; location of original is unknown].

When the parapet was first pointed is not known. An 1880s photograph of the east elevation used on the cover of Water's Ipswich River, Its Bridges, Wharves and Industries suggests that the outside was not pointed at that date. A photograph in an undated and untitled bound album in the Ipswich Room at the Ipswich Public Library appears to also date from the late-nineteenth century, and it clearly shows that while the outer face of the eastern parapet is not pointed, the inside of the west (original) parapet is pointed with very light colored mortar. When the venerable bridge was recorded by the Historic American Buildings Survey in 1934 (HABS No. MASS 2-69 includes one drawing and 2 photographs), a utility box was attached to the west elevation. No longer extant, it may well have been the conduit carrying the telephone lines that are now depressed in the roadway. The water main on the outside of the east elevation, installed in the early twentieth century, is carried on concrete and ferrous piers and concealed behind a frame casing (see HAER Photographs No. MA-81-8, MA-81-9, and MA-81-11). It is not known if the cutwater pier on the west elevation is original or an early addition to project the upstream pier from freshets in the river (see HAER Photographs No. MA-81-14 and MA-81-17).

During the early 1930s, some remedial work, under the direction of George Morse, was done to the bridge (Conley). The parapet has been rebuilt many times, as a result of being damaged by vehicular impact. A variety of inappropriate mortars have been used on both the inside and outside of the parapets and the stones have been reset with joints that are too wide to be effective or historically accurate (see HAER Photographs No. MA-81-11 and MA-81-17).

Prior to 1971, Choate Bridge was certified as a Massachusetts Historic Landmark and, on August 21, 1972, it was individually listed in the National Register of Historic Places for its State significance in engineering and transportation. It is also part of the 1980 South Green National Register Historic District, which recognizes not only the importance and preservation of the bridge itself but also its historic setting.

Choate Bridge
HAER No. MA-81
(Page 8)

9

Note added September 8, 1988, by A. G. Lichtenstein as follows:

In connection with the rehabilitation project of the Choate Bridge, in June 1988 the firm, Preservation Technology Associates, Inc. (PTAI) of Boston, Massachusetts, performed a detailed examination of the Choate Bridge for the purpose of recommending the proper repointing mortar to be applied in the joints. The examination by PTAI was two-fold: a close, hands-on inspection of the joints in the field, and a careful review and study of available historic photographs, including those located at the Society for the Preservation of New England Antiquities (SPNEA).

In the opinion of PTAI, the original portion of the Bridge (1764) "was laid up in lime mortar at time of its construction." On the other hand, the newer portion of the Bridge (1838) was found by PTAI to have been "originally laid up as dry stone work with no mortar."

BIBLIOGRAPHY

Boston Evening Transcript, "Choate Bridge," August 7, 1888.

Conley, Mary (Mrs. John). Personal interview with Mary E. McCahon, March 21, 1988.

Essex County. Court of General Sessions. Records. March-December 1764.

Historic American Buildings Survey. Choate Bridge (MASS 2-69). Washington, D.C.: Department of the Interior, 1934.

Ipswich. Town Meeting Minutes. March 1794 - March 1766.

Ipswich Public Library. Ca. 1900 Photograph Album. Untitled and updated bound manuscript in Ipswich Room collection.

Keenan, Alice. Ipswich Yesterday. Ipswich: Today Newspapers, Inc., 1982.

Russell, Francis. The French and Indian Wars. New York: American Heritage Publishing Co., Inc., 1962.

Thompson, Katherine. "Choate Bridge." Ipswich Chronicle, February 4, 1965.

Wardell, Ann. "Choate Bridge." Nomination to the National Register of Historic Places. Boston: Massachusetts Historical Commission, 1971.

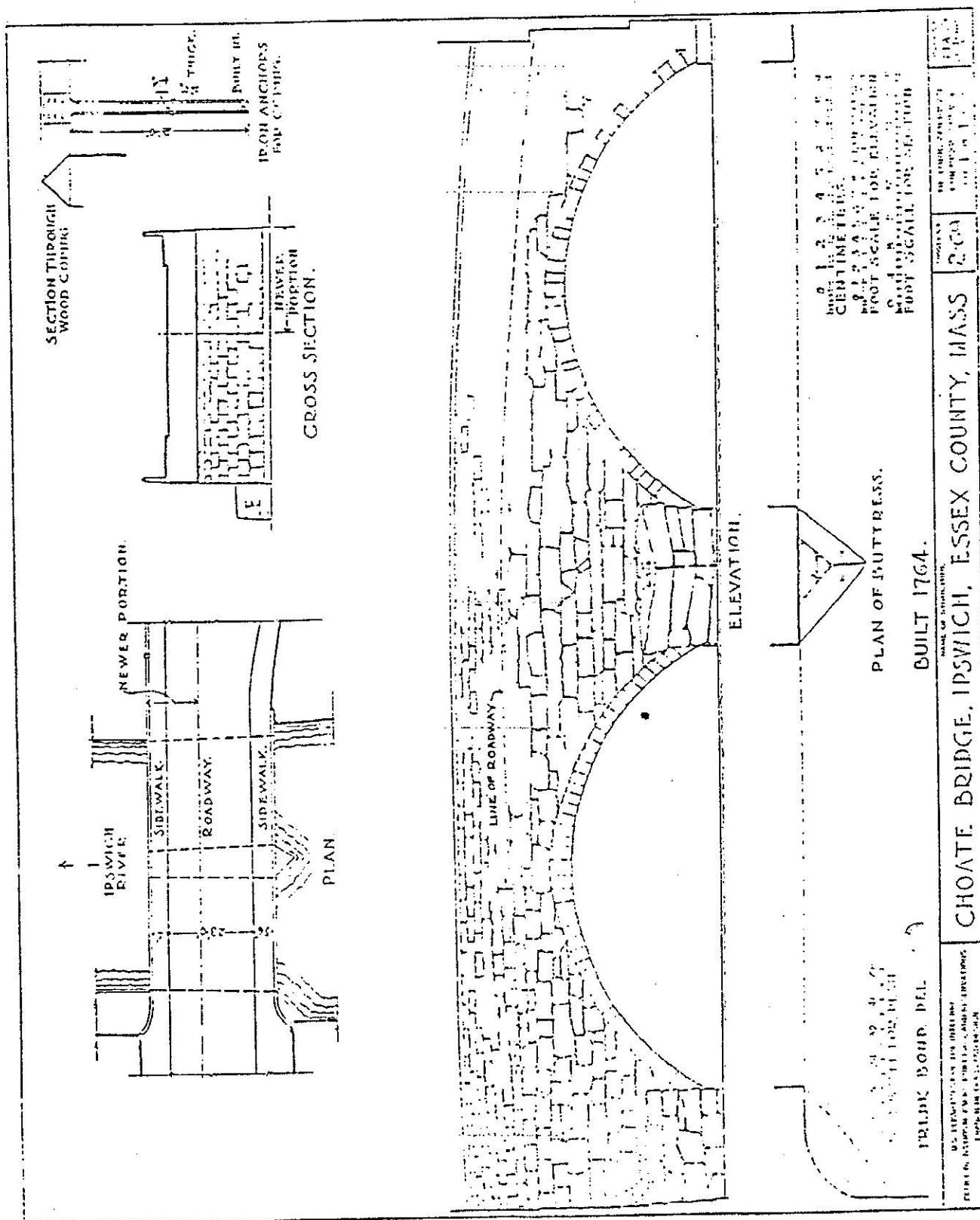
Choate Bridge
HAER No. MA-81
(Page 8)
10

Bibliography, cont'd.

Waters, Thomas Franklin. Ipswich in the Massachusetts Bay Colony Vol. II. Ipswich Historical Society, 1905.

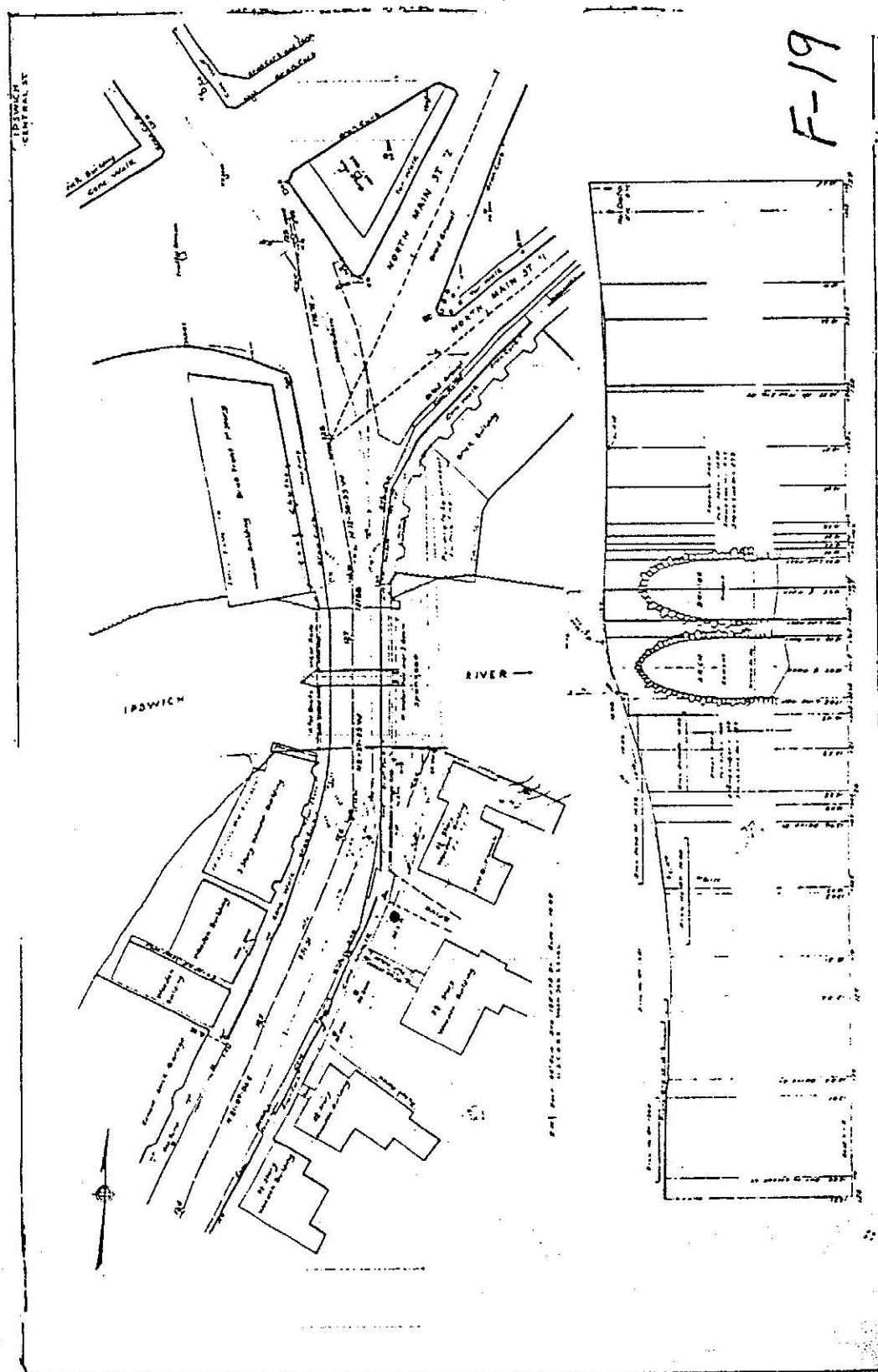
Ipswich: Ipswich Historical Society, 1922.

CHOATE BRIDGE
HAER No. MA-81
(Page 10)



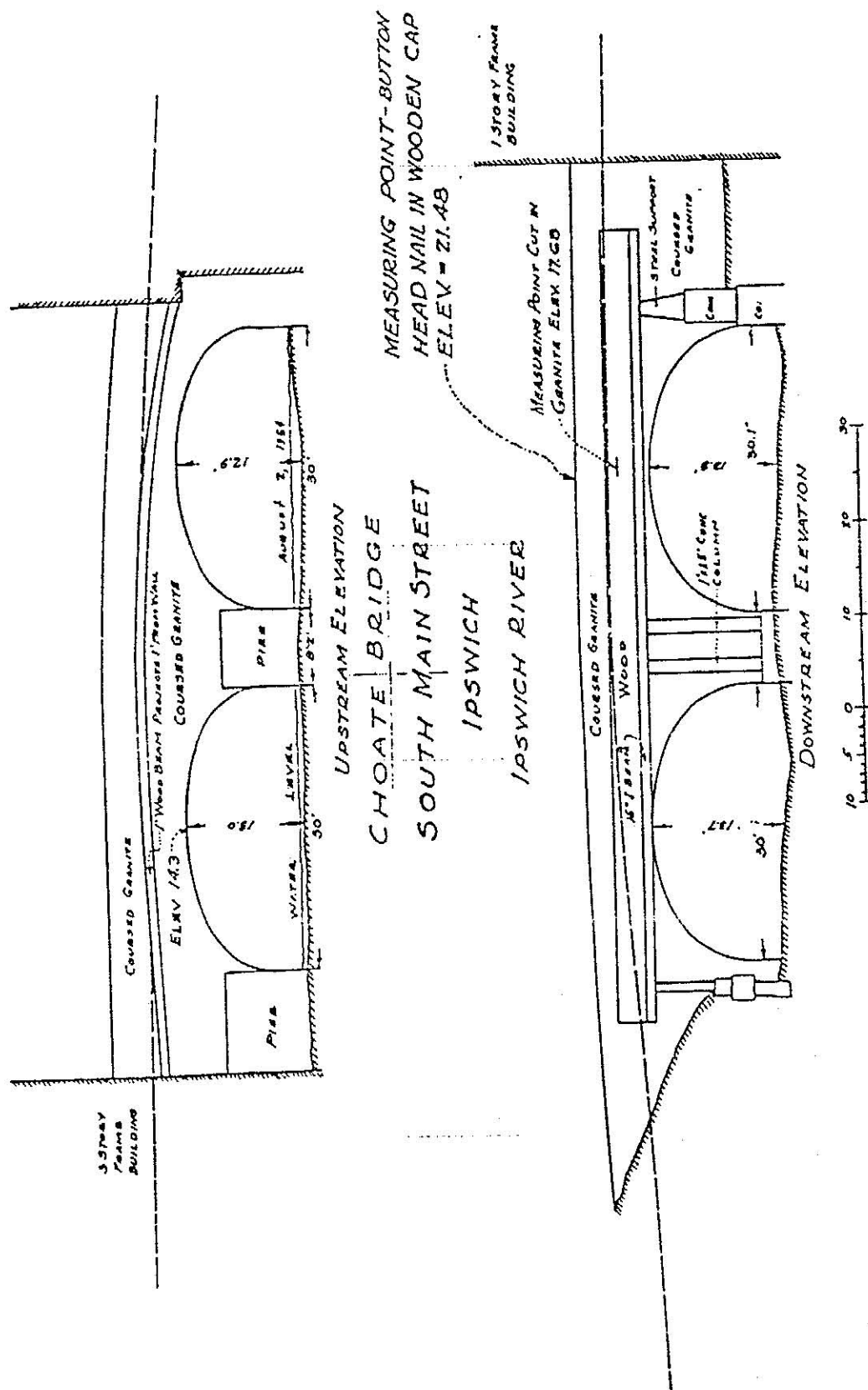
(HABS No. MA-2-69) HISTORIC AMERICAN BUILDINGS SURVEY DRAFTING (date unknown)

CHOATE BRIDGE
HAER No. MA-81
(Page 11)



CHOATE BRIDGE
HAER No. MA-81
(Page 12)

12



HISTORIC AMERICAN ENGINEERING RECORD

Index to Photographs

HAER
MASS.
5-IPSWI,
8-

Addendum to

Choate Bridge
Spanning the Ipswich River
on Massachusetts State Route 1A
Ipswich
Essex County
Massachusetts

HAER No. MA-81

NOTE: Photographs were taken by Martin Stupich, photographer, March 31, 1988.
Seven photographs were previously transmitted to the Library of Congress.

MA-81-8⁶ VIEW SHOWING BUILDER'S INSCRIPTION CARVED IN GRANITE ON
ROADWAY SIDE, SOUTH END OF WEST WALL

"CHOATES BRIDGE
BUILT BY
TOWN & COUNTY + 1764"

MA-81-9⁷ GENERAL VIEW SHOWING EAST ELEVATION OF BRIDGE, LOOKING
WEST FROM NORTH BANK

MA-81-10⁸ GENERAL VIEW SHOWING EAST ELEVATION OF BRIDGE, LOOKING
WEST FROM SOUTH BANK

MA-81-11⁹ DETAIL VIEW OF NORTHEAST ABUTMENT WITH MASONRY DETAIL
AND UTILITY ENCLOSURE, EAST SIDE

MA-81-12¹⁰ DETAIL VIEW OF SOUTH STONE ARCH, EAST SIDE, SHOWING 1764 AND
1838 MASONRY, LOOKING NORTHWEST

MA-81-13¹¹ DETAIL VIEW OF SOUTHEAST ABUTMENT, EAST SIDE, LOOKING
NORTHWEST

MA-81-14¹² GENERAL VIEW OF ROADWAY AND DECK, LOOKING NORTH FROM
SOUTH

MA-81-15¹³ GENERAL VIEW OF ROADWAY AND DECK, LOOKING SOUTH FROM
NORTH

Addendum to

Choate Bridge
HAER No. MA-81
Index to Photographs
(Page 2)

- 14
MA-81-16 GENERAL VIEW SHOWING WEST ELEVATION OF BRIDGE, LOOKING
EAST FROM NORTH BANK
- 15
MA-81-17 DETAIL VIEW OF ROADWAY AND DECK
- 16
MA-81-18 GENERAL VIEW IN CONTEXT, SHOWING BRIDGE WITH ADJOINING
FRAME STRUCTURES AT SOUTHWEST END OF BRIDGE
- 17
MA-81-19 OBLIQUE VIEW OF WEST SIDE OF BRIDGE, SHOWING DOUBLE STONE
ARCHES, LOOKING SOUTHEAST
- 18
MA-81-20 DETAIL VIEW OF CENTER [SOLE] STONE PIER WITH NOSING
- 19
MA-81-21 DETAIL VIEW OF WEST SIDE OF NORTHWEST ABUTMENT, SHOWING
JOINTS WITH AND WITHOUT MORTAR

Choate Bridge
HAER No. MA-81
Index to Photographs
(Page 3)

IPSWICH
RIVER

7
9.

8
10.

9
11.

10
12.

11
13.

ROADWAY

13
15. →

12
14.

6

IPSWICH
RIVER

19 21.

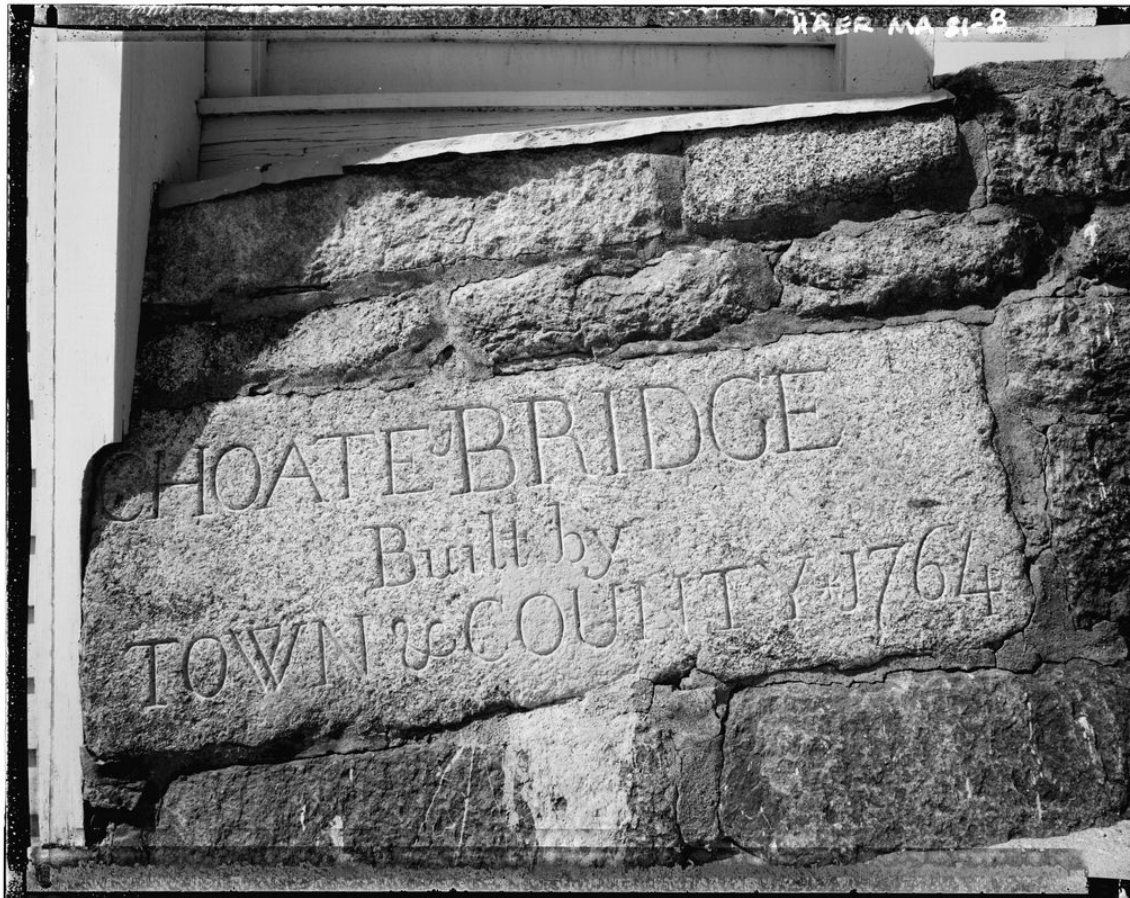
16 18.

17 19.
18 20.

14
16.
15 17.

HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-6



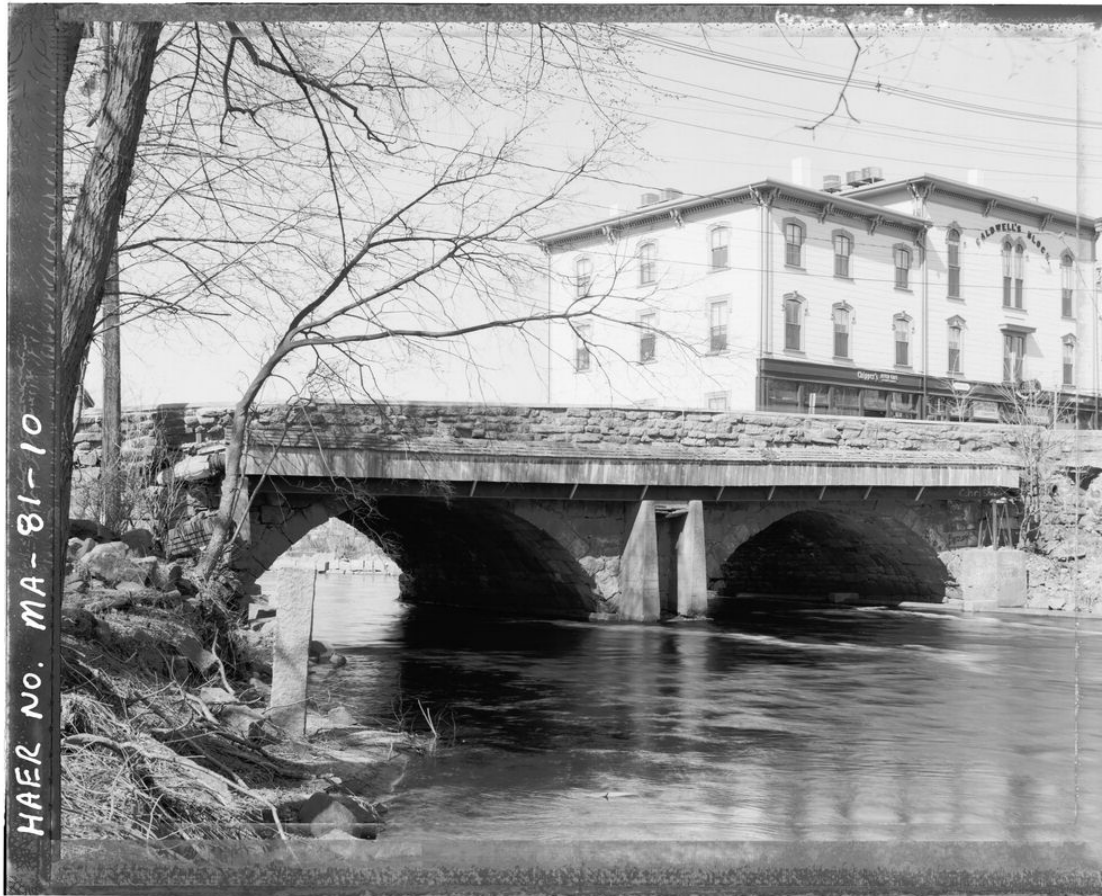
HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-7



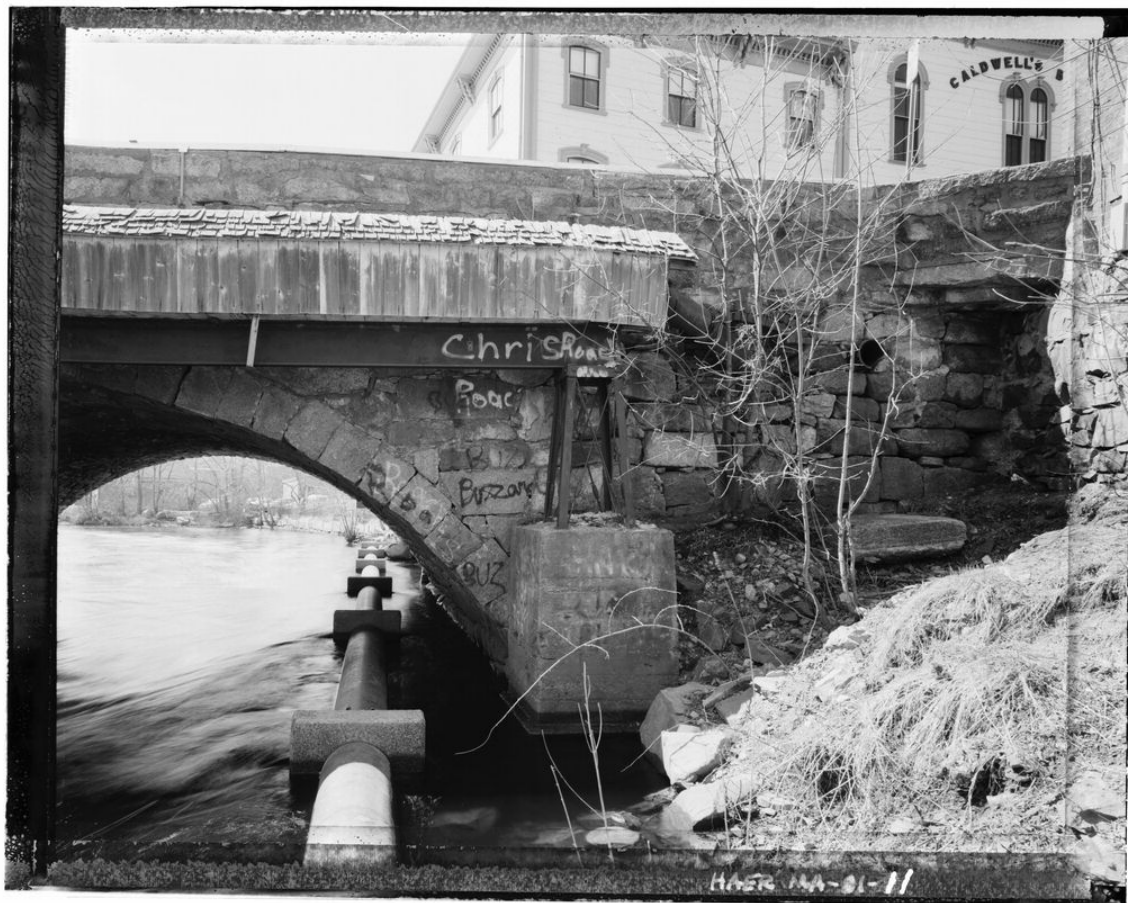
HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-8



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-9



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-10



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-11



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-12



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-13



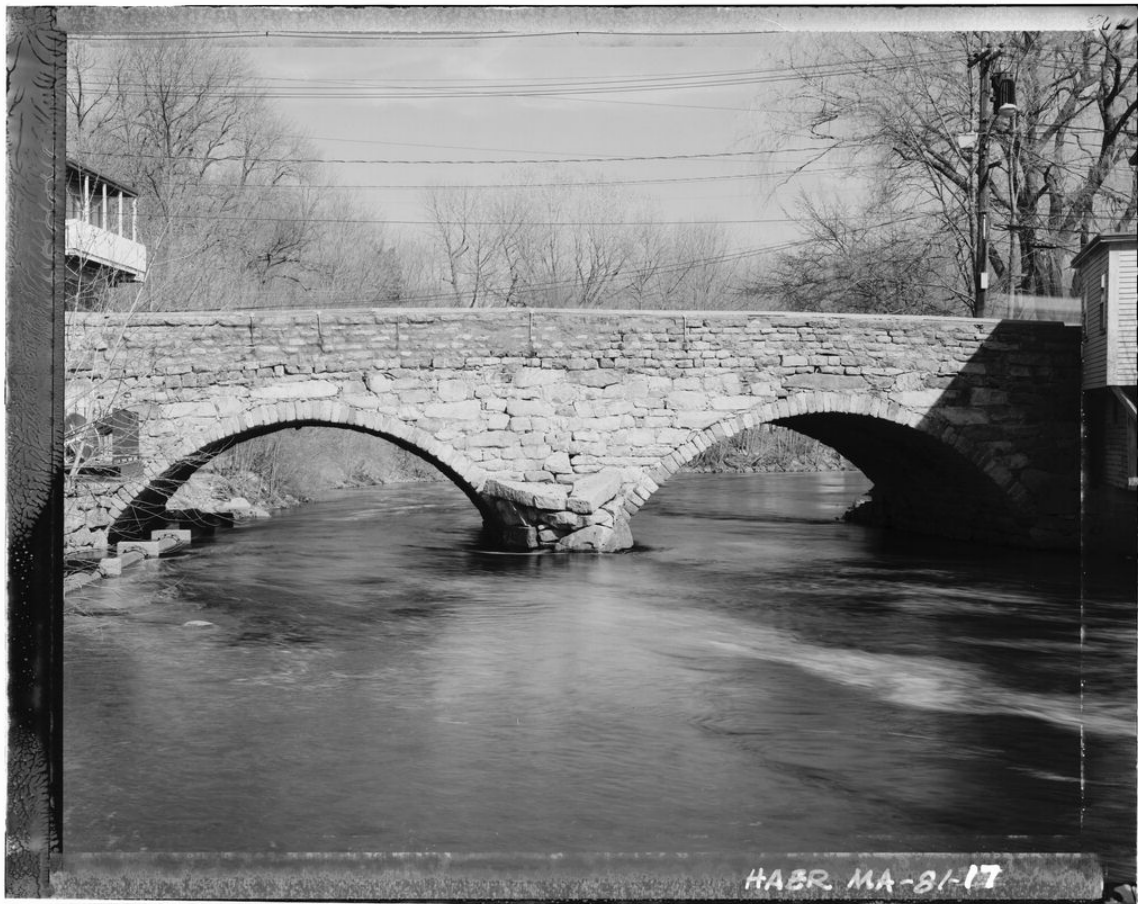
HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-14



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-15



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-16



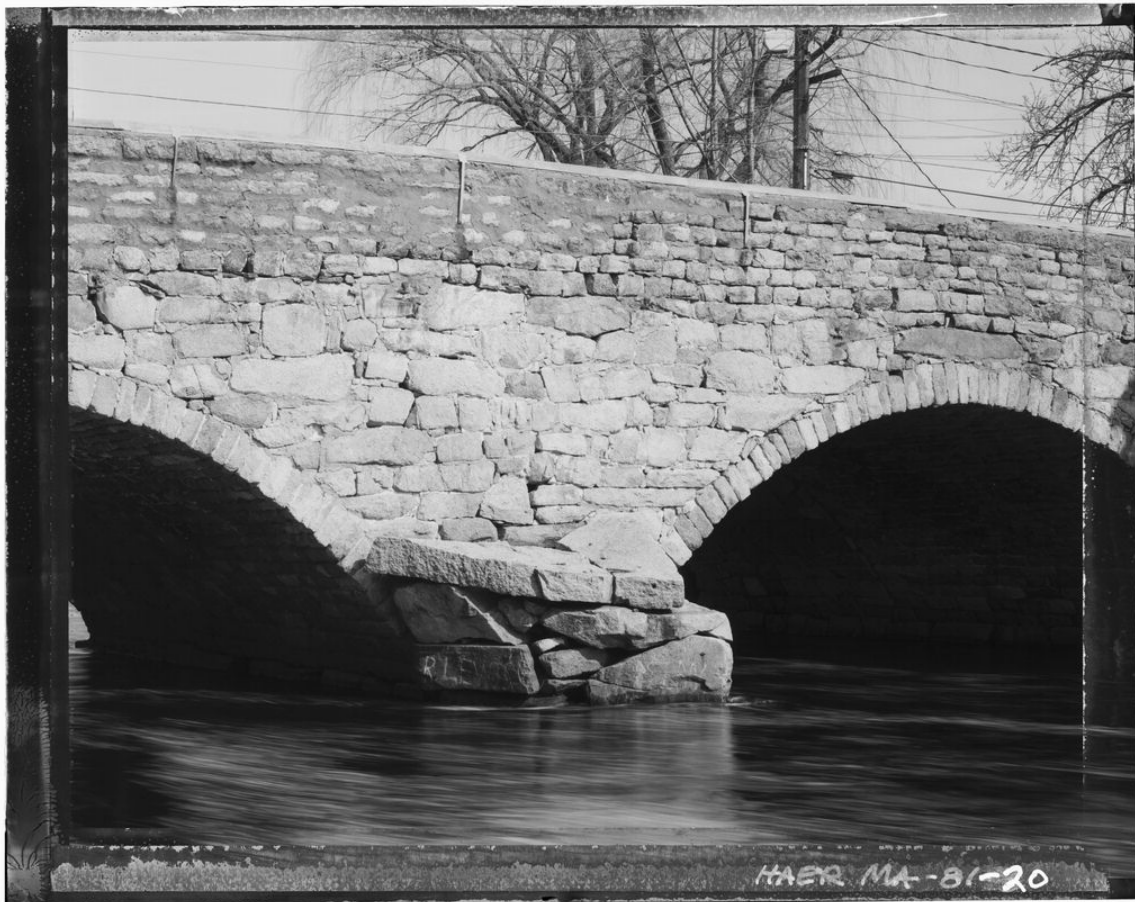
HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-17



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-18



HISTORIC AMERICAN ENGINEERING RECORD
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS

HAER No. MA-81-19

