



Tighe&Bond



PRESERVATION OF THE BRIDGE OF FLOWERS

Public Information Session

Andrea Lacasse, PE
Zach Chornyak, PE

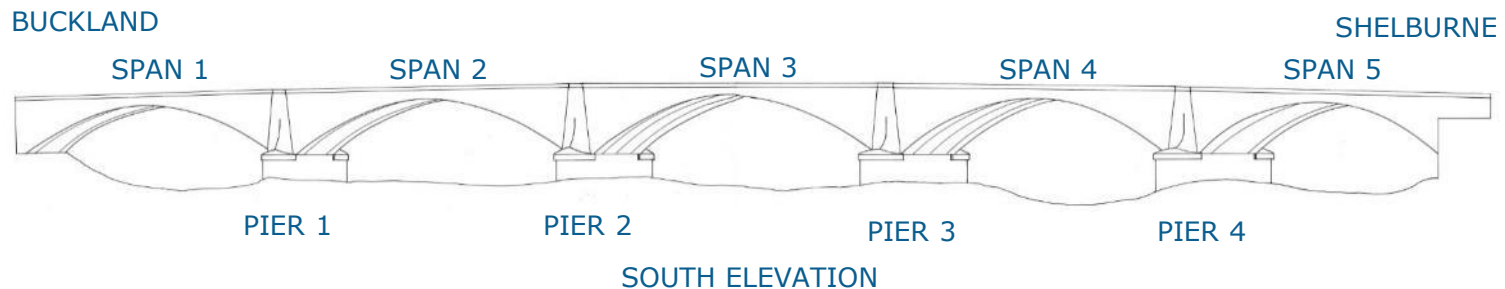
PRESENTATION CONTENTS

- **History**
- **Assessment Findings and Recommendations**
- **Preservation Project**

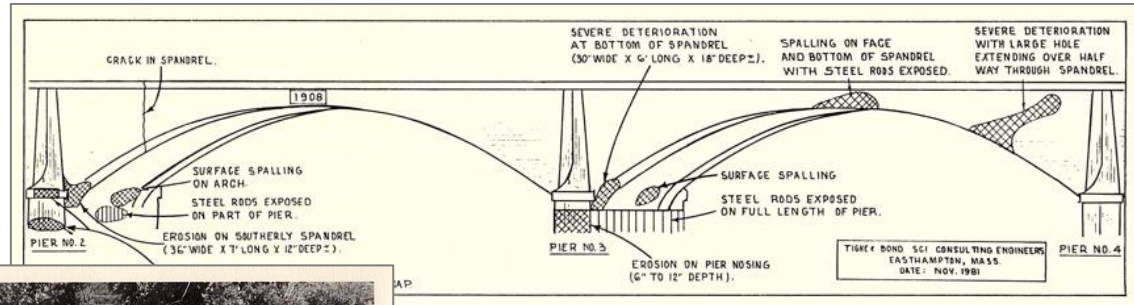


HISTORY

- **Original Construction as Trolley Bridge in 1908**
- **Trolley Closes 1927**
- **1928 Bridge Purchased by the Shelburne Falls Fire District, Bridge Continues to Support Buckland Water Main**
- **Recreation as Bridge of Flowers 1929**
- **Major Rehabilitation 1983**
- **1987 Shelburne Falls Historic District Listed in the National Registry of Historic Places – Includes The Bridge of Flowers**



1983 REHABILITATION – FUNDRAISING CAMPAIGN



Donations in Service

Rita Augustinowitz - *Loan of Clippings*
 Eleanor Avery - *Newspaper Clippings*
 James Basile - *Buckland Police Chief*
 Richard C. Bishop, Esq. - *Legal Services*
 David Bodenstein - *Football Coach MTRHS*
 Mike Chrisman - *Photo Search*
 Nancy Dean - *Barometer*
 Mark DeJackome - *Shelburne Police Chief*
 Philip Dzialo - *Principal MTRHS*
 Kristie Faulaw - *Letter written*
 Peter Gale - *Trucking and Barometer*
 Laura Griswold - *Typing*
 Mary Hancock - *Typing and Proof Reading*
 E. Will Heiser - *Trucking*
 Jeanne Ray Juster - *Design Consultation*
 Viola Lyons - *Proof Reading*
 William Meyers - *Volunteer Recruitment*
 Carrie Miller - *Letter written*
 Rev. Benjamin E.J. New - *Invocation and Benediction at Kickoff*
 Mildred B. Parks - *Typing*
 Elaine Parmett - *Typing*
 Margaret Parsons - *Volunteer Coordinator*
 Mary & Michelle Phillips - *Letters written*
 Donald & Gladys Richardson - *Printing*
 Amy Roberts - *Picture and Letter*
 James E. Scott - *Blackboard*
 Marilyn Shea - *Watercolor Painting*
 Rose Shippee - *Proof Reading*
 Hazel M. Streeter - *Filing*
 John Taylor - *Typing*
 Debbie Schafer Valvo - *Photography*
 David Washer - *Kickoff Music*
 Nick Waynelovich - *Musical Director MTRHS*
 Nicoletta Welsh, C.P.A. - *Accounting Services*
 Harold Wheeler - *Movie Benefit Ticket Sales*
 Jill & Julie Wheeler - *Letters written*
 Robert & Jane Wishart - *Publications*



Government Leadership

Jonathan Healy - *State Representative*
 John Olver - *State Senator*
 Stanley Rosenberg - *Aide to Senator Olver*
 Elizabeth D. Ertel - *Aide to Senator Olver*
 Byron J. Matthews - *Secretary, Executive Office of Communities and Development*
 John F. Bradshaw - *Asst. Secretary, E.O.C.D.*
 John F. Bassett - *County Commissioner*
 Everett B. Hatch - *County Commissioner*
 Margaret H. Herlihy - *County Commissioner*
 Bernard H. Shippee - *Buckland Selectman*
 Edmund F. Smith - *Buckland Selectman*
 Ruth A. Truesdell - *Buckland Selectman*
 Gordon F. Fink - *Shelburne Selectman*
 Stanley E. Gawle - *Shelburne Selectman*
 Harry S. Zaluzny - *Shelburne Selectman*
 Frank M. Field - *Shelburne Falls Water Commissioner*
 Robert D. Howson - *Shelburne Falls Water Commissioner*
 Robert A. Pike - *Shelburne Falls Water Commissioner*

Leadership Donors

Bank of Boston - *Western Massachusetts N.A.*
 Lamson & Goodnow Mfg. Co.
 Carrolle Markle
 Roger E. Peck
 Shelburne Falls Community House, Inc.
 Shelburne Falls Super Market
 Florence Temple

LEADERSHIP DONORS



1983 REHABILITATION - CONSTRUCTION



Photographs courtesy of the Shelburne Falls Fire District.

ASSESSMENT – TIGHE & BOND 2019

Approach:

- Drone Flights and Videos
- River Level Dropped
- Assessment in River of Arch Intrados and Foundations
- Assessment of Spandrel Walls
- Test pit



ASSESSMENT FINDINGS

- **Spandrel Walls**

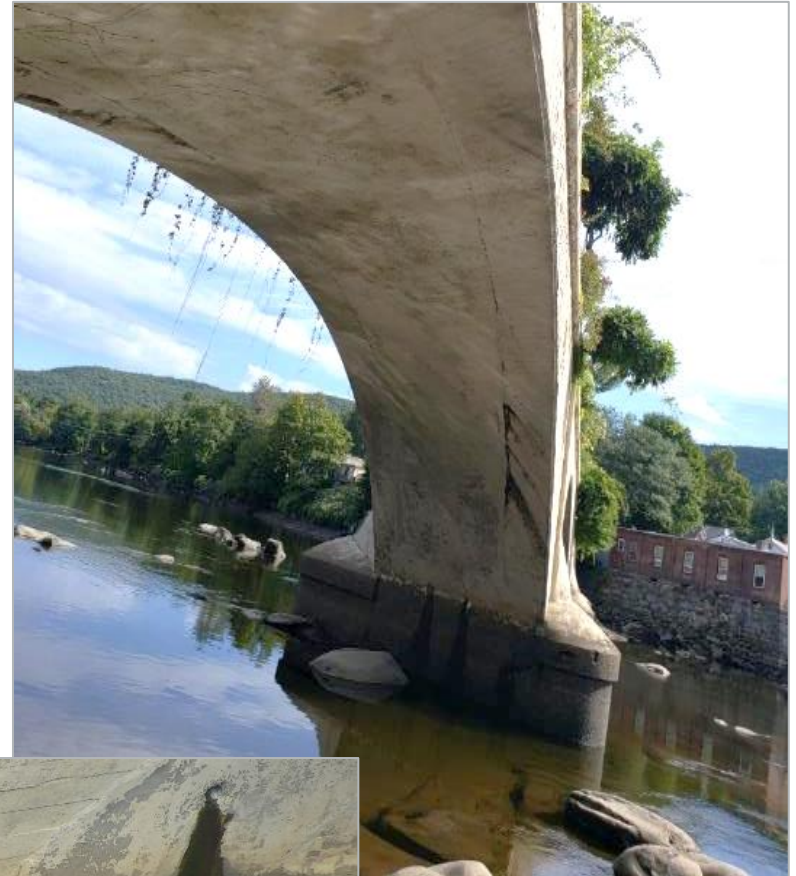
- Extensive cracking / bulge north wall
- Failure of protective coating and spall repairs applied in 1983



ASSESSMENT FINDINGS

- **Arch Intrados**

- Staining and efflorescence along the construction joints
- Spall repairs from 1983 in fair to poor condition
- Weeps added in 1983 appear to be active



ASSESSMENT FINDINGS

- **Piers**

- Scour pockets not found
- Overpour visible
- Appear to be socketed into bedrock
- Abrasion on nosings



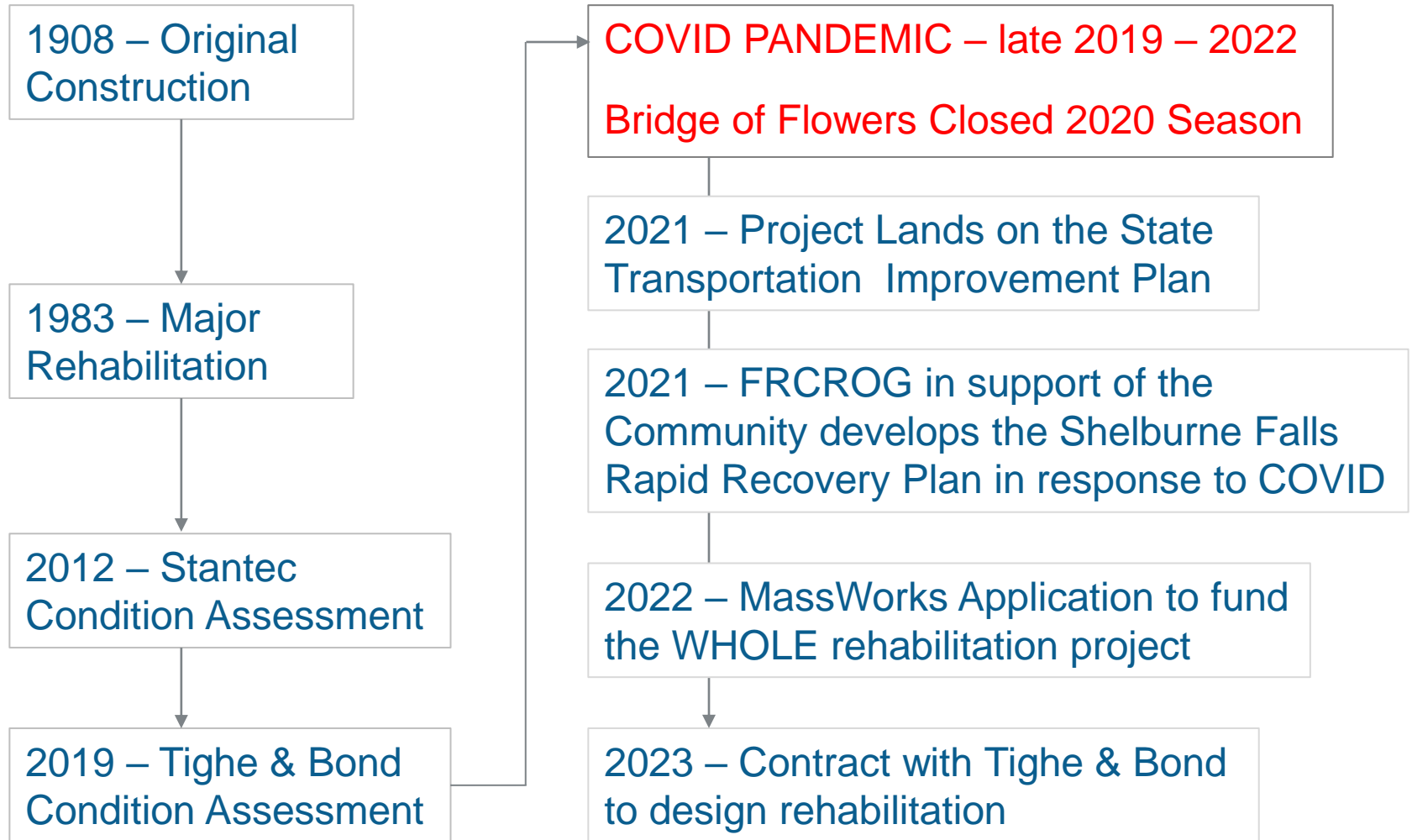
RECOMMENDATIONS

- Stabilize the wall
- Replace guardrails
- Improve drainage
- Address global deterioration of concrete

**Cost Estimate:
\$1,800,000 to \$2,000,000
(2019 dollars).**



REHABILITATION PROJECT TIMELINE



SHELBURNE FALLS RAPID RECOVERY PLAN

Rapid Recovery Plan (RRP) Program:

Develop Actionable, project-based recovery plans tailored to the unique economic challenges and COVID-19 related impacts to downtowns, etc.

- 10 Projects Identified
- One was Structural Improvements to the Bridge of Flowers

SHELBURNE FALLS RAPID RECOVERY PLAN

Final Plan Recognizes:

- **Struggles associated with work on Bridge Street.**
 - Plan mentions taking efforts to mitigate any access issues during the construction phase.
- **If construction temporarily limits access to the Bridge of Flowers...**
 - Actions should be undertaken to mitigate these issues.
 - Programming that continues to engage visitors
- **Ongoing communication throughout design and construction**

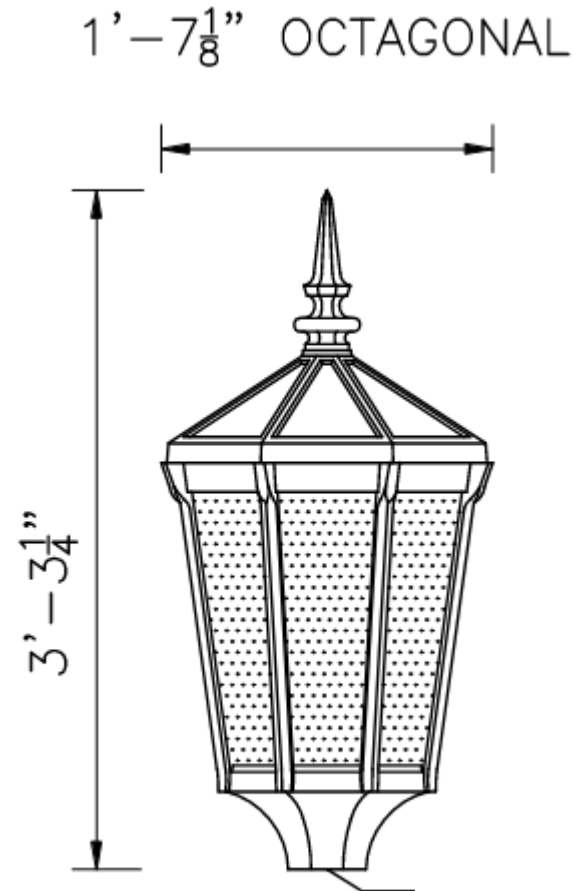
MASSWORKS GRANT PROGRAM/APPLICATION

- **SFFD, FRCROG, and Tighe & Bond**
- **Application for FY23**
- **Requested: \$2,455,000**
- **Awarded: \$2,298,000**
- **Target Start Date: 11/01/2022**
- **Target End Date: 11/01/2024**



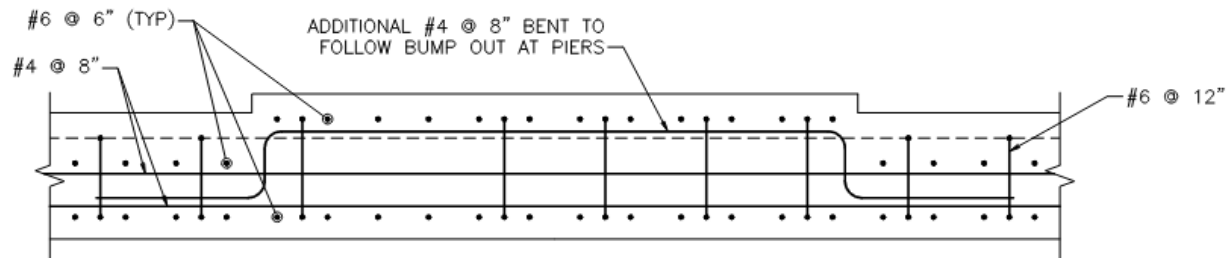
REHABILITATION PROJECT

- **Address Structural Deficiencies**
 - Rebuild the North Spandrel Wall
- **Improve Resiliency of the Bridge**
 - Concrete protective coating
 - Improved waterproofing and drainage
- **Address accessibility**
 - New pathway meeting ADA requirements
- **Update Bridge Features**
 - Lighting
 - Irrigation



REHABILITATION PROJECT

- **Address Safety Concerns**
 - New Bridge Rail on the North and South Walls
- **Water Main Operation Enhancements**
- **Preservation of large shrubs and bridge features**
- **Minimize Impacts to the Community**



REINFORCING PLAN AT PIER 3

SCALE: 1" = 1'-0"

THANK YOU - QUESTIONS



1929 - 2024

Photograph courtesy of the Bridge of Flowers website.