


## STRUCTURES INSPECTION FIELD REPORT

2-DIST <b>04</b>	B.I.N. <b>8AM</b>	<b>SPECIAL MEMBER INSPECTION</b>	BR. DEPT. NO. <b>M-02-001</b>
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CITY/TOWN <b>MANCHESTER</b>	8-STRUCTURE NO. <b>M02001-8AM-MUN-BRI</b>	11-Kilo. POINT <b>000.000</b>	90-ROUTINE INSP. DATE <b>Nov 15, 2018</b>	93*-SPEC. MEMB. INSP. DATE <b>Nov 21, 2019</b>
07-FACILITY CARRIED <b>ST127 CENTRAL ST</b>	MEMORIAL NAME/LOCAL NAME		27-YR BUILT <b>1850</b>	106-YR REBUILT <b>1900</b>
06-FEATURES INTERSECTED <b>WATER SAW MILL BROOK</b>		26-FUNCTIONAL CLASS <b>Urban Minor Arterial</b>	DIST. BRIDGE INSPECTION ENGINEER <b>J. Dideo</b>	
43-STRUCTURE TYPE <b>811 : Masonry Arch - Deck</b>	22-OWNER <b>Town Agency</b>	21-MAINTAINER <b>Town Agency</b>	TEAM LEADER <b>J. Kelleher, P.E.</b>	PROJ MGR <b>Bayside Engineering Inc</b>
107-DECK TYPE <b>N : Not applicable</b>	WEATHER <b>SUNNY</b>	TEMP. (air) <b>9°C</b>	TEAM MEMBERS <b>R. TOMKINS</b>	

WEIGHT POSTING		Not Applicable <input checked="" type="checkbox"/>	At bridge		Advance		PLANS (Y/N): <b>N</b>
Actual Posting	H	3	3S2	Single	E	W	E
Recommended Posting	N	N	N	N			
Waived Date: <b>00/00/0000</b>	EJDMT Date: <b>00/00/0000</b>		Signs In Place (Y=Yes, N=No, NR=Not Required)		Legibility/Visibility		(V.C.R.) (Y/N): <b>N</b>
							TAPE#: _____

RATING		Recommend for Rating or Rerating (Y/N): <b>N</b>	If YES please give priority:
Rating Report (Y/N): <b>N</b>	Date: <b>----</b>	REASON: 	HIGH (---) MEDIUM (---) LOW (---)
Inspection data at time of existing rating			
158: -	159: -	160: -	162: -
Date: <b>00/00/0000</b>			

## SPECIAL MEMBER(S):

	MEMBER	CRACK (Y/N):	WELD'S CONDITION (0-9)	LOCATION OF CORROSION, SECTION LOSS (%), CRACKS, COLLISION DAMAGE, STRESS CONCENTRATION, ETC.	CONDITION		INV. RATING OF MEMBER FROM RATING ANALYSIS			Deficiencies
					PREVIOUS	PRESENT				
					(0-9)	(0-9)	H-20	3	3S2	
A	Item 59.2 - Keystone Area	N	N	See remarks in comments section.	4	4	Not Rated			S-A
B										
C										
D										
E										

## List of field tests performed:

	I-58	I-59	I-60	I-62
(Overall Previous Condition)	-	4	7	-
(Overall Current Condition)	-	4	7	-

DEFICIENCY: A defect in a structure that requires corrective action.

## CATEGORIES OF DEFICIENCIES:

M= Minor Deficiency - Deficiencies which are minor in nature, generally do not impact the structural integrity of the bridge and could easily be repaired. Examples include but are not limited to: Spalled concrete, Minor pot holes, Minor corrosion of steel, Minor scouring, Clogged drainage, etc.

S= Severe/Major Deficiency - Deficiencies which are more extensive in nature and need more planning and effort to repair. Examples include but are not limited to: Moderate to major deterioration in concrete, Exposed and corroded rebars, Considerable settlement, Considerable scouring or undermining, Moderate to extensive corrosion to structural steel with measurable loss of section, etc.

C-S= Critical Structural Deficiency - A deficiency in a structural element of a bridge that poses an extreme unsafe condition due to the failure or imminent failure of the element which will affect the structural integrity of the bridge.

C-H= Critical Hazard Deficiency - A deficiency in a component or element of a bridge that poses an extreme hazard or unsafe condition to the public, but does not impair the structural integrity of the bridge. Examples include but are not limited to: Loose concrete hanging down over traffic or pedestrians, A hole in a sidewalk that may cause injuries to pedestrians, Missing section of bridge railing, etc.

## URGENCY OF REPAIR:

I = Immediate - [Inspector(s) immediately contact District Bridge Inspection Engineer (DBIE) to report the Deficiency and to receive further instruction from him/her].

A = ASAP - [Action/Repair should be initiated by District Maintenance Engineer or the Responsible Party (if not a State owned bridge) upon receipt of the Inspection Report].

P = Prioritize - [Shall be prioritized by District Maintenance Engineer or the Responsible Party (if not a State owned bridge) and repairs made when funds and/or manpower is available].

X=UNKNOWN

N=NOT APPLICABLE

H=HIDDEN/INACCESSIBLE

R=REMOVED

CITY/TOWN MANCHESTER	B.I.N. 8AM	BR. DEPT. NO. M-02-001	8.-STRUCTURE NO. M02001-8AM-MUN-BRI	INSPECTION DATE NOV 21, 2019
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## REMARKS

### BRIDGE ORIENTATION

State Route 127/Central Street is oriented east and west over Saw Mill Brook which is tidal beneath the bridge (ebb to the south and flood to the north). **See sketch 1.**

### GENERAL REMARKS

The structure is a dry laid stone masonry arch supported by stone masonry breastwalls. There is a concrete slab section supporting the south sidewalk. The north (flood) wingwalls are dry laid masonry. The south (ebb) wingwalls are reinforced concrete extending to a tide gate downstream of the bridge.

### ACCESS REMARKS

The bridge was inspected during the day at low tide using waders. Access to the underside of the bridge was gained from the northeast embankment wall approximately 50 yards upstream.

### ITEM 59 - SUPERSTRUCTURE

#### Item 59.2 - Keystone Area

Keystones are missing throughout the arch barrel. The missing keystone areas are covered in shotcrete which appears unchanged since the previous inspection. Specific deficiencies relating to the missing keystones are as follows:

- 2'-6" From North Fascia (See Photo 1)
  - 24" long x 9" wide x 6" deep void
- 7'-0" From North Fascia (See Photo 2)
  - 24" long x 9" wide x 5" deep void
- 14'-0" From North Fascia (See Photo 3)
  - 12" long x 8" wide x 6" deep void
  - Stones surrounding void settled up to 6"
- 17'-0" From North Fascia (See Photo 4)
  - 6" long x 12" wide x 9" deep void
- 22'-0" From North Fascia (See Photo 5)
  - 5' long x 12" wide x 6" deep void

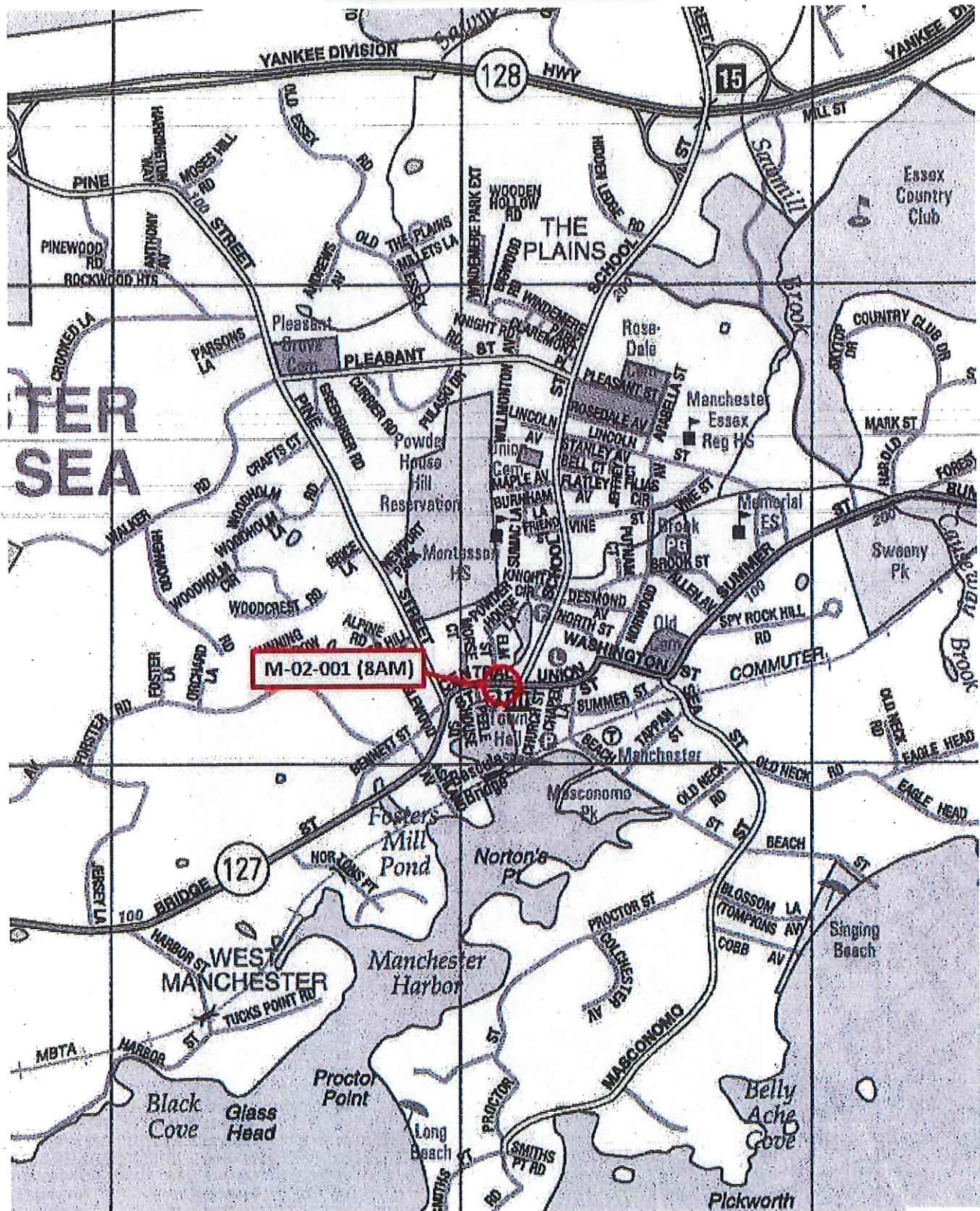
#### Sketch / Photo Log

- Sketch 1 : Locus Map
- Photo 1 : 2'-6" From North Fascia: 24" long x 9" wide x 6" deep void
- Photo 2 : 7'-0" From North Fascia: 24" long x 9" wide x 5" deep void
- Photo 3 : 14'-0" From North Fascia: 12" long x 8" wide x 6" deep void; stones surrounding void settled up to 6"
- Photo 4 : 17'-0" From North Fascia: 6" long x 12" wide x 9" deep void
- Photo 5 : 22'-0" From North Fascia: 5' long x 12" wide x 6" deep void



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# SKETCHES



Sketch 1: Locus Map



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**PHOTOS**

**Photo 1:** 2'-6" From North Fascia: 24" long x 9" wide x 6" deep void



**Photo 2:** 7'-0" From North Fascia: 24" long x 9" wide x 5" deep void



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## PHOTOS



**Photo 3:** 14'-0" From North Fascia: 12" long x 8" wide x 6" deep void; stones surrounding void settled up to 6"



**Photo 4:** 17'-0" From North Fascia: 6" long x 12" wide x 9" deep void

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**PHOTOS**

**Photo 5: 22'-0" From North Fascia: 5' long x 12" wide x 6" deep void**