2-DIST 04

B.I.N. 7VB

## STRUCTURES INSPECTION FIELD REPORT

BR. DEPT. NO. B-07-015=W-04-039

DEE

## **ROUTINE & SPECIAL MEMBER INSPECTION**

CITY/TOWN 8.-STRUCTURE NO. 11-Kilo. POINT D:OPEN 90-ROUTINE INSP. DATE BELMONT=WALTHAM B07015-7VB-MUN-CUL 000.000 MAY 2, 2022 07-FACILITY CARRIED 27-YR BUILT YR REHAB'D (NON 106) MEMORIAL NAME/LOCAL NAME 106-YR REBUILT ST 60 TRAPELO RD 1850 1900 0000 06-FEATURES INTERSECTED DIST. BRIDGE INSPECTION ENGINEER 26-FUNCTIONAL CLASS J. Dideo WATER BEAVER BROOK **Urban Arterial** TEAM LEADER 43-STRUCTURE TYPE 801 : Masonry Slab 21-MAINTAINER 22-OWNER Town Agency **Town Agency** 

107-DECK TYPE  1 : Concrete Cast-	in-Pla	ıce		weather Clear		<sup>2. (air)</sup> 12°C	-	TEAM MEN		
ITEM 58	3			M 59		Γ	3		ITEM 60	
DECK		DEF	SUPI	ERSTRUCTU	<i>IRE</i>			DEF	SUBSTRUCTURE	L
1.Wearing surface	4	S-A	1.Bea	ms		2.5	3	S-A	1. Abutments	Div
2.Deck Condition	3	S-A	2.Floo	orbeams			N	_	a. Pedestals	N
3.Stay in Place Forms	N		3.Floo	or System Brad	ina		N		b. Bridge Seats	N
	1 5.5.	C D	5	ders or Beams			N		c. Backwalls d. Breastwalls	N 4
4.Curbs	4	S-P	-	sses - General			(8.5.)	-	e. Wingwalls	3
5.Median	N	-				N.	N	J	f. Slope Paving/Rip-Rap	7
6.Sidewalks	6	M-P	a. (	Jpper Chords		N		-	g. Pointing	N
7.Parapets	N	_	b. I	ower Chords		N		-	h. Footings	6
			c. l	Web Members		N		-	i, Piles	X
8.Railing	4	M-P	d. I	ateral Bracing		N		_	j. Scour	7
9.Anti Missile Fence	N	-	l	Sway Bracings		N			k. Settlement	4 N
10.Drainage System	N	-				N			m.	N
11.Lighting Standards	N			Portals					2. Piers or Bents	
produce and other spin to the				End Posts		N			a. Pedestals	N
12.Utilities	N	-	6.Pin	& Hangers			N	-	b. Caps	N
13.Deck Joints	N	-	7.Con	n Plt's, Gusse	ts & A	ngles	N	-	c. Columns	N
14.	N	_	8.Cov	er Plates			N		d. Stems/Webs/Pierwalls	N
			9 Boa	ring Devices			N	1	e. Pointing	N
15.	N	-	1					-	f. Footing	N
16.	N	-	10. Dia	aphragms/Cros	ss Frai	nes	N	-	g. Piles	N
λ:			11. Riv	vets & Bolts			N	-	h, Scour	N
	N	S	12. We	elds			N	-	i continuit	N
CURB REVEAL (In millimeters)	76	127	13. Me	mber Alignme	nt		N	l -	k.	N
				int/Coating			N		3. Pile Bents	
APPROACHES		DEF		moodating			N	-	a. Pile Caps	N
a. Appr. pavement condition	5	M-P	15.				IN		b. Piles	N
b. Appr. Roadway Settlement	6		Year	Painted		N			c. Diagonal Bracing	N
			Tour .	unitou		56%		]	d. Horizontal Bracing	N
c. Appr. Sidewalk Settlement	6	M-P		SION DAMAGE:					e. Fasteners	N
d.	N			(X) Minor ( ) DEFLECTION:		rate ( e expla		vere ( )	UNDERMINING (Y/N) If Y	'ES p
OVERHEAD SIGNS	(Y/N)	N	100000000000000000000000000000000000000		Mode	ereconstraining (Sec.		vere ( )	COLLISION DAMAGE:	
(Attached to bridge)	, ,		LOAD	VIBRATION:	2	e expla	- 8	B 5	\/	1oder
		DEF		AND PART DE MOST. VINC. De	Mode			vere ( )	SCOUR: Please explain	
a. Condition of Welds	N	-							None (X) Minor ( ) M	loder
b. Condition of Bolts	N	-	Any F	ny Fracture Critical Member: (Y/N)				I-60 (Dive Report): 4	1	
c. Condition of Signs	N	-	Any C	racks: (Y/N)	N					
			1.5	5 5	100				OOD HAW (DIVIE) In-	- 1

SUBSTRUCTURE				DEF
1. Abutments	Dive	Cur	4	
a. Pedestals	N	N		-
b. Bridge Seats	N	Н		-
c. Backwalls	N	N		-
d. Breastwalls	4	4		S-A
e. Wingwalls	3	3		S-A
f. Slope Paving/Rip-Rap	7	7		-
g. Pointing	N	N		
h. Footings	6	Н		M-P
i, Piles	Х	Х		1
j. Scour	7	6		M-P
k. Settlement	4	5		
I.	N	N		-
m.	N	N		-
2. Piers or Bents			N	
a. Pedestals	N	N		
b. Caps	N	N		
c. Columns	N	N	1	-
d. Stems/Webs/Pierwalls	N	N		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
e. Pointing	N	N	-	
f. Footing	N	N		-
g. Piles	N	N		-
h. Scour	N	N	+	
i. Settlement	N	N	+	
j.	N	N	+	
k.	N	N	-	124
3. Pile Bents			N	
a. Pile Caps	N	N		To the United
b. Piles	N	N	1	
c. Diagonal Bracing	N	N	. †	-
d. Horizontal Bracing	N	N	-	7=4
e. Fasteners	N	N		-
UNDERMINING (Y/N) If Y  COLLISION DAMAGE:  None (X) Minor ( ) M	ES ple		xplain ) Seve	N
SCOUR: Please explain	oderat	20	0 <u></u>	A A
I-60 (Dive Report):			Report	
93B-U/W (DIVE) Insp		11/	29/20	21

	TOWI	N = <b>WALTHAM</b>			B.I.		INSPECTION D MAY 2, 20	
				_		ITEM 36 TRAFFIC SAFETY ACCESSIB	V8-V8-C90 E-41 5	N/P)
	EM 61				5	36 COND DEF		d Used
	NNE	L & L PROTECTION	M			A. Bridge Railing 0 4 M-P Lift Bucket	N	N
Cnn	.IVIVID.	LFRUIECTIO	Y			B. Transitions 0 6 M-P Ladder	N.	N
			Dive	Cur	DEF	C. Approach Guardrail 0 6 M-P Boat	N	N
1.Cha	annel	Scour	7	6	M-P	D. Approach Guardrail Ends 0 7 - Waders	_ Y	Y
2.Em	ıbankr	ment Erosion	4	7	-	WEIGHT POSTING Not Applicable X Inspector 50		N
3.Del	bris		7	7	140	H 3 3S2 Single Rigging	N	N
4.Veç	getatio	on	7	7	:•:	Actual Posting N N N Staging	N N	N
5.Util	lities	2000	N	N		Recommended Posting N N N N N	rol N	N
6.Rip	o-Rap/	Slope Protection	3	3	S-A	Waived Date: 00/00/0000 EJDMT Date: 00/00/0000 Police	N	N
	gradat		7	7		At bridge Other Advance Other:	***	
		System	N	N	-	Signs In Place E W E W	N	N/
0.1 0.	luei o	ystem	13	14		(Y=Yes,N=No, NR=NotRequired) Legibility/ TOTAL HC		
						Visibility	Įf	12
						CLEARANCE POSTING N S  Not X ft in ft in meter PLANS	(Y/N):	N
STRE	EAM FL	OW VELOCITY:				Actual Field Measurement 0 0 (V.C.R.)	(Y/N): N	
Tidal (	) Hig	h ( ) Moderate ( ) L	Low()	X ) Nor	ne ( )	Posted Clearance 0 0 0 TAPE#:		1),
TEM 61	l (Dive R	Report): 5 ITEM 61	1 (This	s Repo	rt): 6	Signs In Place N S N S	oto norformed:	
93b-l	U/W IN	ISP. DATE: 11	1/29	/2021	1	NR=Not Required) Legibility/ Hands on ins		
RATI			_			Visibility If YES please give pr	rioritu	
		ort (Y/N): N				Recommend for Rating or Rerating (Y/N): N HIGH ( ) MEDIUM (	CA - 300 - 405 SETTINGUES - 444 -	
						Trecommend for reading of rectaining (1714).	, , , ,	
Date:		00/00/0000			· · · · ·	REASON:		
In - :1 58		ion data at time of e 9:  -   I 60:  -   Da						
00.	. 100	7 100.	no . c	Jorde	70000			
		T				CONDITION RATING GUIDE (For Items 58, 59, 60 a	and 61)	
	CODE		1			DEFECTS		
_	N	NOT APPLICABLE		- Hav	- Jillen			
G	9	EXCELLENT			nt condition.	)		
G	8	VERY GOOD	- 1		ilem noted. ninor proble	***		
G	6	SATISFACTORY				show some minor deterioration.		
F	5	FAIR				al elements are sound but may have minor section loss, cracking, spalling or scour.		
P	4	POOR		2.4.10.40.20.00.00.00		poss, deterioration, spalling or scour.	a.	
P	3	SERIOUS	L	Loss of s	section, det	erioration, spalling or scour have seriously affected primary structural components. Local failures are pos-	ssible. Fatigue cracks	
C	2	CRITICAL	A	Advance	ed deteriors	icks in concrete may be present. tion of primary structural elements. Fatigue cracks in steel or shear cracks in concrete may be present or ire support. Unless closely monitored it may be necessary to close the bridge until corrective action is tak	r scour may have	
С	1	"IMMINENT" FAILURE	N	Major de	eterioration	or section loss present in critical structural components or obvious vertical or horizontal movement affecti rraffic but corrective action may put it back in light service.		
2000	0	FAILED				ond corrective action.		
		17.mmes			2	DEFICIENCY REPORTING GUIDE		
DEEL		CY: A defect in a str	cucture	e that re	ouires corr		· ·	
D	CIENC	A. I Market Construction	Miloros	Dilliman	A Complete Communication			
CATE	CIENC	ES OF DEFICIENT	CIEC					
CATE M=N	EGOR	IES OF DEFICIENC	s which	are mino	r in nature, g	nerally do not impact the structural integrity of the bridge and could easily be repaired. Examples include but are not limited to	o: Spalled concrete, Minor po	ot
M=N	EGORI Minor I	Deficiency - Deficiencies	s which	are mino		enerally do not impact the structural integrity of the bridge and could easily be repaired. Examples include but are not limited to uring, Clogged drainage, etc.		
M=\N S= Se	EGORI Minor I evere/M	Deficiency - Deficiencies holes, Minor Major Deficiency - Deficiency	s which or corros Deficienc corroded	are mino sion of ste ncies whic d rebars,	eei, Minor sco ch are more ex Considerable	uning, crogged damage, etc. densive in nature and need more planning and effort to repair. Examples include but are not limited to: Moderate to major dete settlement, Considerable scouring or undermining, Moderate to extensive corrosion to structural steel with measurable loss of	erioration in concrete, Expos of section, etc.	sed and
M=\N S= Se	EGORI Minor I evere/M	Deficiency - Deficiencies holes, Minor Major Deficiency - Deficiency	s which or corrosi Deficience corroded	are mino sion of ste ncies whic d rebars, - A def of the	eer, minor sco ch are more ex Considerable ficiency in a si e bridge.	uning, volgged drainage, etc.  densive in nature and need more planning and effort to repair. Examples include but are not limited to: Moderate to major dete settlement, Considerable scouring or undermining, Moderate to extensive corrosion to structural steel with measurable loss of nuctural element of a bridge that poses an extreme unsafe condition due to the failure or imminent failure of the element which	erioration in concrete, Expos of section, etc. h will affect the structural inte	sed and
M=\N S= Se C-S=	EGORI Minor I evere/N - Critic	Deficiency - Deficiencies holes, Minor Major Deficiency - Deficiency	s which or corrosi Deficience corroded	are mino sion of ste ncies whic d rebars, - A def of the A deficie include	ch are more ex Considerable ficiency in a si e bridge.	uning, crogged damage, etc. densive in nature and need more planning and effort to repair. Examples include but are not limited to: Moderate to major dete settlement, Considerable scouring or undermining, Moderate to extensive corrosion to structural steel with measurable loss of	erioration in concrete, Expos of section, etc. h will affect the structural inte ral integrity of the bridge. Exa	ed and egrity amples
M=\N S= Se C-S= C-H=	EGORI Minor I evere/N = Critic = Critic	Deficiency - Deficiencies holes, Minor Major Deficiency - Oc cal Structural Deficiency cal Hazard Deficiency	s which or corrosi Deficience corroded	n are mino sion of ste ncies whic d rebars, r _ A def of the A deficie	ch are more ex Considerable ficiency in a si e bridge.	uning, crogged drainage, etc.  densive in nature and need more planning and effort to repair. Examples include but are not limited to: Moderate to major dete settlement, Considerable scouring or undermining, Moderate to extensive corrosion to structural steel with measurable loss of ructural element of a bridge that poses an extreme unsafe condition due to the failure or imminent failure of the element which popent or element of a bridge that poses an extreme hazard or unsafe condition to the public, but does not impair the structural	erioration in concrete, Expos of section, etc. h will affect the structural inte ral integrity of the bridge. Exa	ed and egrity amples
M=\N S= Se C-S= C-H=	EGORI Minor I evere/N = Critic = Critic	Deficiency - Deficiencies holes, Minor Major Deficiency - Deficiencies - Deficiency - Deficienc	s which or corrosi Deficience corroded iency	are mino sion of ste dices which d rebars, r _ A def of the A deficie include etc.	ch are more ex- Considerable ficiency in a si e bridge. lency in a com but are not lir	densive in nature and need more planning and effort to repair. Examples include but are not limited to: Moderate to major dete settlement, Considerable scouring or undermining, Moderate to extensive corrosion to structural steel with measurable loss of ructural element of a bridge that poses an extreme unsafe condition due to the failure or imminent failure of the element which ponent or element of a bridge that poses an extreme hazard or unsafe condition to the public, but does not impair the structural intendition. Considerable that poses an extreme hazard or unsafe condition to the public, but does not impair the structural to: Loose concrete hanging down over traffic or pedestrians, A hole in a sidewalk that may cause injuries to pedestrians, a specific properties to pedestrians.	erioration in concrete, Expos of section, etc. h will affect the structural inte ral integrity of the bridge. Exa	ed and egrity amples
M=\N S= Se C-S= C-H= URG I = Im A = A	EGORIMINOT I evere/M Critic Critic Critic	Deficiency - Deficiencies holes, Minor Major Deficiency - Docard Structural Deficiency - Holes Hazard Deficiency - Grant Hazard Deficiency - Grant Hazard Deficiency - Grant Hazard Deficiency - (Inspector(s) immedia (Action/Repair should	s which or corross Deficience corroded iency Icy -	a are mino sion of ste cices whice d rebars, - A def of the A deficie include etc.	ch are more ex- Considerable ficiency in a si e bridge, ency in a com but are not lir	densive in nature and need more planning and effort to repair. Examples include but are not limited to: Moderate to major dete settlement, Considerable scouring or undermining, Moderate to extensive corrosion to structural steel with measurable loss of ructural element of a bridge that poses an extreme unsafe condition due to the failure or imminent failure of the element which ponent or element of a bridge that poses an extreme hazard or unsafe condition to the public, but does not impair the structural intend to: Loose concrete hanging down over traffic or pedestrians, A hole in a sidewalk that may cause injuries to pedestrians,	erioration in concrete, Expos of section, etc. h will affect the structural inte ral integrity of the bridge. Exa	ed and egrity amples

# MASSACHUSETTS DEPARTMENT OF TRANSPORTATION PAGE 3 OF 23

2-DIST B.I.N. STRUCTURES INSPECTION FIELD REPORT

BR. DEPT. NO. B-07-015=W-04-039

04 7VB	ROUTII	NE 8	& SPECIAL	_ MEMBE	RINSPEC	TIOI	N		B-07	-015	=W-04	4-039
CITY/TOWN		8S7	TRUCTURE NO.		11-Kilo. POINT	90-ROU	TINE IN	ISP. DATE	93*-SP	EC. MI	EMB. IN	SP. DATI
BELMONT=WALTHAM		В	07015-7VB-I	MUN-CUL	000.000	000.000 May			May 2, 2022			
07-FACILITY CARRIED		M.	MEMORIAL NAMI	E/LOCAL NAME	27-YR						'D (NON	1 106)
ST 60 TRAPELO RD			4/			850		900		//-don/-	000	
06-FEATURES INTERSECTED	01/		26-FUNCTIONAL O		DIST. BRIDGE II	ASPECTI	ON ENG	INEER	J. Dide	0		i .
WATER BEAVER BRO	OK		CONTRACTOR DESIGNATION AND ADDRESS		THAM DEADER	Degg	les	1,				
43-STRUCTURE TYPE 801 : Masonry Slab			Town Agency	21-MAINTAINER Town Agency			1/1					6
107-DECK TYPE  1 : Concrete Cast-in-F	Place		Clear	TEMP. (air) 12°C	P. BURKE	RS /				8	3 T	
WEIGHT POSTING	Not Applicab		X	1000	bridge	Advan	110101	PLA	ŃS	(Y/N	J): N	
Actual Posting		ingle `	Signs In	Place E	_ w	E	W		u 10	(171	<i>y</i>	
Recommended Posting		N	(Y=Yes,N NR=Not F Legibility	The state of the s				(V.C	.R.)	(Y/N	1): N	
			0000 Visibility				/	∐ TAF	E#:			
RATING	LODINI Dute.	0,00	0000					If YES pl	ease qi	ve pri	ority:	
Rating Report (Y/N): N	Deter	Wetween a	Recomm	end for Rating o	or Rerating (Y/N	1): I	N [				) LOW	<i>I</i> ( )
	Date:		REAS	SON:	1	6	<b>3</b>					
Inspection data at tin			00/0000			V	٠, حو					
	02 Dak	,,,,,,,,				_	-					
SPECIAL MEMBER(S):	CDACK WEL	o's	LOCATION OF COR	ROSION, SECTION L	OSS (%), CRACKS,	CONE	OITION	INV. RATII	NG OF M	IEMBER		
MEMBER	CRACK CONDI	TION	LOCATION OF CORI COLLISION DAMA	GE, STRESS CONCE	NTRÀTION, ETC.	PREVIOUS (0-9)	PRESENT	H-20	3	382	Detic	ciencies
A Item 58.2 - Deck	N		See remarks	in commer	nts section.		3	Not	Rat	ed	S	S-A
B Item 59.1 - Beams	N		See remarks	in commer	nts section.	3	3	Not	Rat	ed	8	S-A
Item 60.1.d -			See remarks	in commer	nts section.							
<sup>C</sup> Breastwalls	N					4	4	No	Rat	ed	5	S-A
D											_	
E												
1:-t - E E-1d to ato morformed				7				I-5	8 I-	-59	I-60	I-62
List of field tests performed Hands on inspection.								3	$\neg \vdash$	3	4	_
				(Ove	rall Previous C	onditio	n)	_	_ _			
2 & g				(Ove	rall Current Co	ndition	)	3		3	4	-
DEFICIENCY: A defect in a str	ucture that requires o	orrective	e action.	-	*							- S
CATECODIES OF DESICIEN	CIES:			ON WOLLDON VEHICLE AND ALVO BOLLS DOWN		Promotor		and the Head	tas Caalla	d conscal	. Minor or	nt.
	- F-11	a audanah	is is notice and need more	planning and effort to renai	ir Evamples include but a	re not limite	d to: Moder	ate to major de	terioration	in concre	ete, Exposr	ed and
	orroded rebais, Consider	anie seme	illelit, Collaiderable acouring	j or undermining, moderate	o to omenant concentration					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
C-S= Critical Structural Defici	t to bridge.		tt t -f - beldes that	nonce on oviceme hazard	or unsafe condition to the	nublic but	does not in	nair the struct	ıral integri	ty of the b	bridge, Exa	mples
C-H= Critical Hazard Deficien	<ul> <li>cy - A deficiency in a include but are n etc.</li> </ul>	ot limited t	nt or element of a bridge that to: Loose concrete hanging o	lown over traffic or pedesti	rians, A hole in a sidewalk	that may ca	use injuries	to pedestrian	s, Missing	section of	f bridge rall	ling,
URGENCY OF REPAIR:			7	, N							8	
I = Immediate- [Inspector(s) immed A = ASAP- [Action/Repair shou	ately contact District Brid d be initiated by District N	ge Inspect laintenand	tion Engineer (DBIE) to repo ce Engineer or the Responsil	rt the Deficiency and to rec ble Party (if not a State ow	ceive further instruction fron ned bridge) upon receipt	om him/her]. of the Inspec	ction Report	ıj.				

[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].

P = Prioritize

#### REMARKS

#### **BRIDGE ORIENTATION**

Structure B-07-015=W-04-039 (7VB) carries ST 60 Trapelo Road over Beaver Brook along the border line between the Town of Belmont and the City of Waltham. The approaches are west and east and the elevations are south and north. Beaver Brook flows from north to south.

#### **GENERAL REMARKS**

There are multiple superstructure types for this bridge. There are sixteen (16) granite slabs labeled Slab 1 through 16 from south to north. There are eight (8) steel beams labeled Beam 1 through 8 between Slabs 4 and 5, with a utility main at Beam 5. There is a concrete slab with stay-in- place forms between Slabs 12 and 13. North of Slab 16 there is a concrete extension. The original abutments are comprised of dry laid stone at the south side, and the bridge was widened using cast- in-place concrete abutments on the north side. There is a bituminous wearing surface that has been retrofitted with steel roadway plates that span the length of the superstructure. **See Sketches 1 - 3.** 

"Caution" signs were placed at both approaches. See Photos 1 & 2.

A gas smell was present near the both elevations and within the channel. The Bridge Inspection National Grid Liaison was notified on 5/2/22.

#### ITEM 58 - DECK

#### Item 58.1 - Wearing surface

Temporary steel plates make up the wearing surface over the structure. See Item 58.2 Deck Conditions for plate deficiencies.

#### Item 58.2 - Deck Condition

The roadway plates are designated as P1 through P6 from south to north. See Sketch 1.

There are isolated fully broken tack welds between roadway plates. The plates with broken tack welds typically deflect under live load.

There is typically minor scrapes and gouges on the leading edge of the roadway plates.

There are isolated transverse hairline cracks in the approaches adjacent to the plates.

There was a previously noted spall in the pavement at the northeast corner of P4 which has been repaired. **See Photo 3.** 

There is a depressed bituminous patch with radial up to 1/8" cracks at the northeast corner of P5. **See Photo 3**.

#### Item 58.4 - Curbs

There are typical chips in the granite for both the south and north curbs.

The north granite curb has settled several inches and has a 3" reveal.

The south granite curb has an 5" reveal.

#### Item 58.6 - Sidewalks

The south sidewalk has slight heaving at the east end along the stone masonry wall.

#### REMARKS

In the south sidewalk near the stone wall there was a 1' diameter hole in the asphalt that has since been repaired. See Photo 4.

In the south sidewalk there is random cracking throughout.

There is settlement in front of the western side of the masonry stone wall and evidence of ponding. **See** Photo 5.

Item 58.8 - Railing

There is a masonry stone wall at the south end of structure and Type "ss" highway guardrail at the north end.

In the masonry stone wall, there is cracked mortar and missing pointing between the stones as well as missing stones. **See Photos 4 & 5.** 

There is a section of wall along the sidewalk that has water intrusion in several locations causing the back of the wall to bulge up to 3" to the south and various voids to appear between the wall and sidewalk. **See Photos 5 & 6.** 

At the north rail, there is impact damage. See Photo 7.

#### **APPROACHES**

Approaches a - Appr. pavement condition

Both approaches have heavy transverse, longitudinal, and map cracks throughout and patching. **See Photo 8.** 

At the east approach, the southeast catch basin has a sinkhole on the eastern side of it;  $22"D \times 18"L \times 21"D$ . See Photo 9. The DBIE was notified and both Belmont and Waltham were subsequently notified.

### Approaches b - Appr. Roadway Settlement

There is minor settlement along the curbs.

Approaches c - Appr. Sidewalk Settlement

There is uneven pavement within the southeast approach sidewalk; +/- 2". See Photo 3.

#### **ITEM 59 - SUPERSTRUCTURE**

#### Item 59.1 - Beams

Granite Slabs:

There are isolated longitudinal and diagonal hairline cracks, some with efflorescence near the abutments. There are several up to full width transverse hairline cracks, some with efflorescence near mid-span. **See Sketch 2.** 

The southwest corner of Slab 1 is unsupported for 6".

Slab 4 there is a diagonal hairline crack at the east end. See Photo 10.

Granite slab 6: Transverse split with previous water leakage noted near midspan.

Slab 7 near mid-span has an up to 2" wide x full depth transverse crack, with a 20" long x 13" wide x 2" deep spall at the south edge. **See Photo 11.** 

CITY/TOWN
BELMONT=WALTHAM
B.I.N. BR. DEPT. NO. B-07-015=W-04-039
B.O. BR. DEPT. NO. B-07-015=W-04-039
B.O. BR. DEPT. NO. B-07-015=W-04-039
BO7015-7VB-MUN-CUL
INSPECTION DATE MAY 2, 2022

#### REMARKS

Slab 6 and 7 are monitored with crack gauges. The crack gauges indicated little to no movement since installation. The crack gauge at Slab 7 read 0.05 mm from zero. **See Photos 11 - 13.** 

#### Steel I-Beams:

There is timber shielding between the steel I-beams preventing inspection of the web and top flanges. The beams typically exhibit minor rotation about the longitudinal axis, resulting in the bottom flanges no longer being level. **See Photo 14.** 

There is typically heavy rust and laminated rust throughout the beams. The top and bottom flanges of isolated beams near the abutments and at mid-span have up to 100% section loss x full width. See Sketch 3.

#### Reinforced Concrete Slab:

The reinforced concrete slab which acts as part of the superstructure below the westbound roadway is missing 50% of the stay in place forms on the north side of the slab.

There are two spalls with exposed rebar along the south edge measuring up to 2'-6'' long x 9'' high x 6'' wide. There is a 24'' long x 16'' wide delamination at the northwest corner. **See Sketch 2.** 

#### ITEM 60 - SUBSTRUCTURE

#### Item 60.1 - Abutments

### Item 60.1.d - Breastwalls

There are typically voids up to 2'-0" deep throughout the abutments. There are missing and cracked stones throughout both breastwalls and below the drainage pipes. Isolated areas have been repaired and filled with concrete and sandbags. Conditions and locations are as follows:

#### West Abutment:

At the south face, there is a 2'-0" long x 18" high x 14" deep void with shifted stones. See Photo 15.

Below Slab 3, there is a 3'-4" long x 20" high x 2'-0" deep void with shifted stones.

Below Slab 5 at the waterline, there are two (2) up to 2'-0" in diameter x up to 2'-0" deep voids.

Below Slab 9 at the top of the abutment, there is a 18" long x 3" high x 14" deep void.

Below the concrete slab between Slabs 12 & 13, there is a full height hairline crack up to 2'-0" high in the masonry stone.

Below the concrete roof section between Slabs 12 & 13 and adjacent to the masonry wall repair (newer concrete wall section), there is a drainage opening, 2' deep, with a RCP discharging water behind the rest of the breastwall due to an open channel floor. See Photo 16.

Below Slab 13, there is a 12" long x 2'-0" high x 2'-10" deep spall in the cast in place concrete.

#### East Abutment:

Below Slab 1, there are full height cracks in multiple stones up to 10" long x up to 1/4" wide and a 1-1/2" long x 5" high x 3" deep spall. See Photo 17.

#### REMARKS

Below Slab 1 & 2 below the water line, there is 2'-0" long x 16" deep scour.

Below Slab 4 at the waterline, there is a 2'-5" long x 20" high x 3'-3" deep void.

Between Slab 5 and the top of the breastwall, there is a 20" wide x 3" high x 2'-0" deep void.

Below Slab 5 at the waterline, there is a 2'-6" long x 2'-3" high x 3'-2" deep void. See Photo 18.

#### Item 60.1.e - Wingwalls

The southeast retaining wall has a full height crack measuring up to 6" wide x up to 2' deep. See Photo 19.

The southwest wall has collapsed. See Photo 20.

The northwest wingwall shows signs of abrasion and vegetation at the waterline.

For underwater inspection details, see the dive report dated 11.29.21.

#### Item 60.1.h - Footings

For underwater inspection details, see the dive report dated 11.29.21.

#### Item 60.1.j - Scour

For underwater inspection details, see the dive report dated 11:29.21.

#### Item 60.1.k - Settlement

For underwater inspection details, see the dive report dated 11.29.21.

#### **ITEM 61 - CHANNEL AND CHANNEL PROTECTION**

#### Item 61.1 - Channel Scour

For underwater inspection details, see the dive report dated 11.29.21.

#### Item 61.2 - Embankment Erosion

For underwater inspection details, see the dive report dated 11.29.21.

#### Item 61.6 - Rip-Rap/Slope Protection

At the northeast slope, there is a failed sandbag slope protection repair. See Photo 21.

#### TRAFFIC SAFETY

#### Item 36a - Bridge Railing

There is a masonry stone wall at the south end of the structure.

There is Type "SS" highway guardrail at the north end of the structure that acts as the bridge railing.

See Item 58.8 Railing for detailed deficiencies.

#### Item 36b - Transitions

The northeast and northwest transitions both have Type "SS" highway guardrail in place.

The northeast and northwest transitions both have minor scrapes and dents.

#### **REMARKS**

The southeast transition is a continuation of the masonry stone wall.

The southwest transition does not exist.

#### Item 36c - Approach Guardrail

The northeast and northwest approach guardrail both have Type "SS" highway guardrail in place.

The northeast approach guardrail has 100% section loss to the top of one section. See Photo 22.

The northeast approach guardrail has a jersey barrier cemented into the ground in front a washout ravine. See Photo 22.

The southeast approach guardrail is a continuation of the masonry stone wall.

The southwest approach guardrail does not exist.

#### Item 36d - Approach Guardrail Ends

The northeast terminal for the Type "SS" guardrail is a boxing glove end.

The jersey barrier in front of the northeast approach guardrail has blunt ends facing traffic on either side. **See Photo 22.** 

The northwest rail is continuous

The southeast terminal is a continuation of the masonry stone wall.

The southwest terminal is a blunt end opening to the masonry stone wall at the end of the bridge rail.

#### Sketch / Photo Log

Sketch 1:	Roadway Plate Conditions
Sketch 2:	Superstructure Conditions
Sketch 3 ·	Steel Beam Conditions

Photo 1:	"Caution" sign in-place at the west approach.
Photo 2:	"Caution" sign in-place at the east approach.

Photo 3:	Steel Plate 4 and 5 at the northeast corner repaired potholes and a 2'-0" W x 7" L patch with	

radial cracking.

Photo 4: Repaired hole in south sidewalk. Missing stones and mortar in south railing.

Photo 5: South masonry stone wall: Cracked mortar and missing pointing between the stones leading to water intrusion.

South Sidewalk: Depression along masonry wall.

Photo 6: Bulging of western half of masonry wall along area of water intrusion.

Photo 7: North bridge rail: Impact damage.

Photo 8: East approach: Heavy transverse, longitudinal, and map cracks throughout and patching.

Photo 9: East approach: Sinkhole next to catch basin.

Photo 10: Granite slab 4: Diagonal hairline cracking at the east end.
Photo 11: Granite slab 7: Transverse split up to 2" wide near midspan.

Photo 12: Granite slab 6: The crack gauge shows minor movement (< 1 mm in both directions).

Photo 13: Granite slab 7: The crack gauge shows minor movement (<1 mm).

Photo 14: Steel beam 8: Severe section loss at the bottom flange up to 2.5' long x up to 2" wide.

Photo 15: West breastwall: Large voids and missing stones at the south end.

Photo 16: West breastwall: Drainage opening adjacent to wall repair.

PAGE 9 OF 23

CITY/TOWN
BELMONT=WALTHAM
B.I.N. BR. DEPT. NO. 8.-STRUCTURE NO. INSPECTION DATE
B-07-015=W-04-039
B07015-7VB-MUN-CUL
MAY 2, 2022

### **REMARKS**

Photo 17: East breastwall: There are multiple stones with vertical cracks at the south end below beam 1.

Photo 18: East breastwall: Void in first course of stone above waterline under slab 5.

Photo 19: Southeast wingwall: Full height crack measuring up to 6" wide x up to 2' deep.

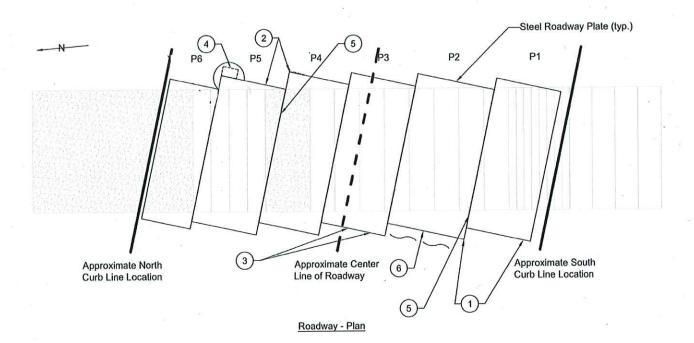
Photo 20: Southwest wingwall: Collapsed.

Photo 21: Northeast slope: Failed slope protection repair.

Photo 22: Northeast approach guardrail: 100% section loss and new barrier due to washout behind rail.

8.-STRUCTURE NO. **INSPECTION DATE** BR. DEPT. NO. B.I.N. CITY/TOWN B-07-015=W-04-039 B07015-7VB-MUN-CUL MAY 2, 2022 BELMONT=WALTHAM **7VB** 

#### **SKETCHES**



#### Legend:



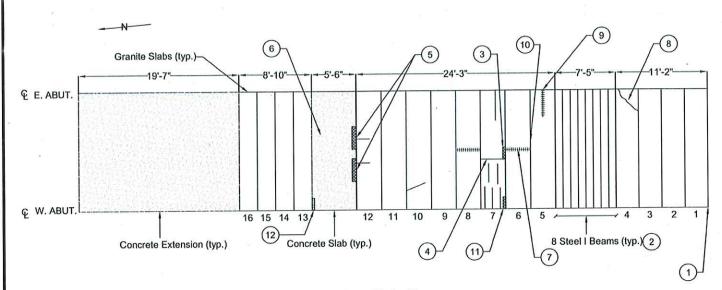
- Spall (typ.) Delamination (typ.)
- Patch
- Hairline Crack (U.O.N)
- Hairline Crack with Efflorescence (U.O.N)

#### Condition:

- Southwest corner deflects under live load
- Northeast corner deflects under live load 2.
- Minor spalls adjacent to roadway plate 3.
- 2'-0" W x 7" L depressed bituminous patch with radial cracks  $\frac{1}{8}$ " W 4.
- Full length broken tack weld (typ. 5" L) 5.
- Minor scrapes and gouges (typ.)

**Roadway Plate Conditions** Sketch 1:

INSPECTION DATE 8.-STRUCTURE NO. B.I.N. BR. DEPT. NO. CITY/TOWN B07015-7VB-MUN-CUL B-07-015=W-04-039 MAY 2, 2022 BELMONT=WALTHAM 7VB



#### Reflected Underside

#### Legend:

Spall (typ.)

Delamination (typ.)

- Hairline Crack (U.O.N)

- Hairline Crack with

Efflorescence (U.O.N)

#### Condition:

- Granite Slab end unsupported at the SW corner for 6"
- See Sketch 3: Steel Beam Conditions
- Granite Slab with a 20" L x 13" W x 2" D spall
- Granite slab with up to 2" W x full depth crack. Crack gauge reads 0.05mm
- 4. Two (2) up to 30" L x 6" W x up to 9" D edge spall with exposed rebar
- 50% of stay in place forms are missing
  Full width hairline crack with efflorescnce. Note: Crack gauge reads 0.00mm
- 6'-0" L hairline crack
- 2'-6" L hairline crack with minor efflorescence
- 10. Loose pointing between the beams
- 11. 2'-0" L x 5" W x 2" D spall 12. 2'-0" L x 16" W delamination

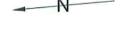
**Superstructure Conditions** Sketch 2:

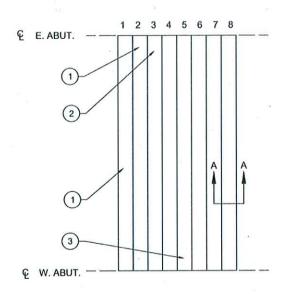
BR. DEPT. NO. 8.-STRUCTURE NO. INSPECTION DATE CITY/TOWN B.I.N. BELMONT=WALTHAM B-07-015=W-04-039 7VB B07015-7VB-MUN-CUL MAY 2, 2022

#### **SKETCHES**

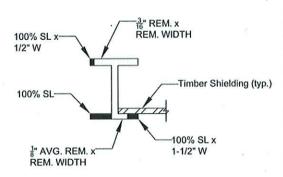
NOTE:

Interior web and top flange inaccessible due to timber shielding. Beams bottom flanges are typically rotated.





Steel Beam - Reflected Underside (N.T.S)



Section A-A Beam 8

#### Conditions:

- Bottom Flange: 100% section loss x 1" W at the south leg, 3" average remaining x remaining width
- Bottom Flange: 100% section loss x 1/2" W at legs, 1/8"
- average remaining x remaining width

  Bottom Flange: North Flange 2" W cut out at the west end above the drainage pipe. South Flange 100% section loss x 2 W

**Steel Beam Conditions** Sketch 3:



Photo 1: "Caution" sign in-place at the west approach.



Photo 2: "Caution" sign in-place at the east approach.



Photo 3: Steel Plate 4 and 5 at the northeast corner repaired potholes and a 2'-0" W x 7" L patch with radial cracking.



Photo 4: Repaired hole in south sidewalk. Missing stones and mortar in south railing.



Photo 5: South masonry stone wall: Cracked mortar and missing pointing between the stones leading to water intrusion.

South Sidewalk: Depression along masonry wall.

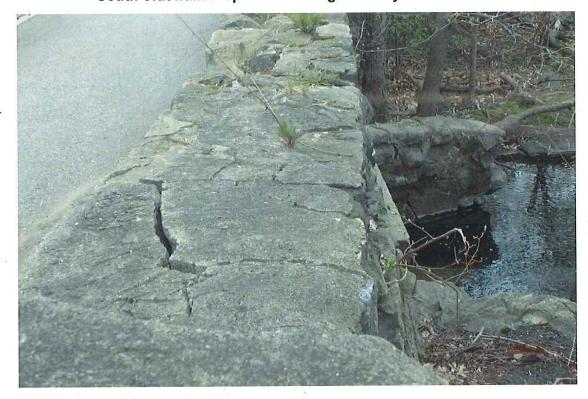


Photo 6: Bulging of western half of masonry wall along area of water intrusion.

CITY/TOWN
BELMONT=WALTHAM
B.I.N. BR. DEPT. NO. 8.-STRUCTURE NO. INSPECTION DATE
B-07-015=W-04-039 B07015-7VB-MUN-CUL MAY 2, 2022



Photo 7: North bridge rail: Impact damage.



Photo 8: East approach: Heavy transverse, longitudinal, and map cracks throughout and patching.



Photo 9: East approach: Sinkhole next to catch basin.



Photo 10: Granite slab 4: Diagonal hairline cracking at the east end.



Photo 11: Granite slab 7: Transverse split up to 2" wide near midspan.

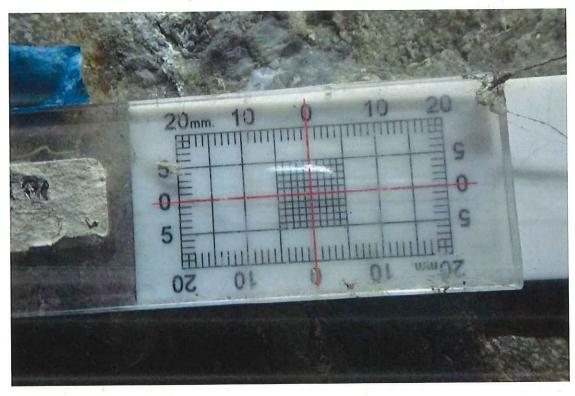


Photo 12: Granite slab 6: The crack gauge shows minor movement ( < 1 mm in both directions).



Photo 13: Granite slab 7: The crack gauge shows minor movement ( < 1 mm).



Photo 14: Steel beam 8: Severe section loss at the bottom flange up to 2.5' long x up to 2" wide.

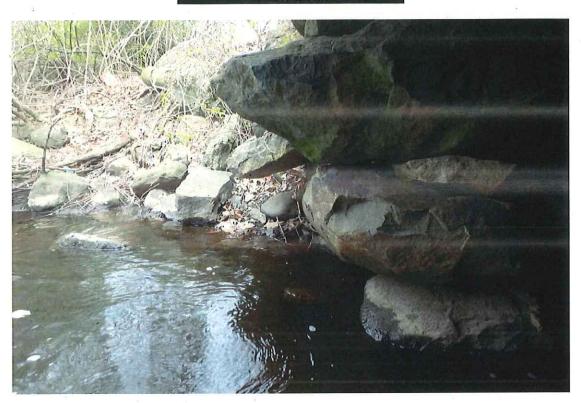


Photo 15: West breastwall: Large voids and missing stones at the south end.

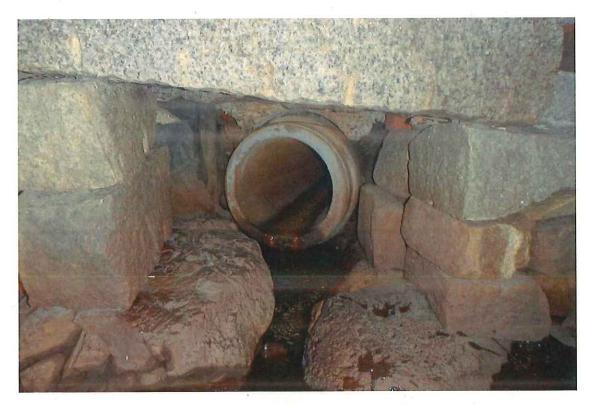


Photo 16: West breastwall: Drainage opening adjacent to wall repair.



Photo 17: East breastwall: There are multiple stones with vertical cracks at the south end below beam 1.



Photo 18: East breastwall: Void in first course of stone above waterline under slab 5.



Photo 19: Southeast wingwall: Full height crack measuring up to 6" wide x up to 2' deep.



Photo 20: Southwest wingwall: Collapsed.



Photo 21: Northeast slope: Failed slope protection repair.



Photo 22: Northeast approach guardrail: 100% section loss and new barrier due to washout behind rail.

Report Date: April 28, 2022 State Information	Code
BDEPT#= B07015=W04039 Agency Br.No.	(112) NBIS Bridge Length N
Town= Belmont=Waltham L.O.	(104) Highway System N
B.I.N= 7VB AASHTO= 002.0	
RANK= 0 H.I.= 90.6 % FHWA Select List= N (6/21/17	
(8) Structure Number B070157VBMUNCUL	(101) Parallel Structure N
(5) Inventory Route 200000000	(102) Direction of Traffic - 2-way traffic 2
(2) State Highway Department District	
(3) County Code 017 (4) Place code 05070	
(6) Features Intersected WATER BEAVER BROOK	(110) Designated National Network
(7) Facility Carried ST 60 TRAPELO RD	200 E
(9) Location	(21) Maintain - Town Agency 03
(11) Kilometerpoint 0000.000	TOPOGRAPH AND REPORTS AND ADMINISTRATION OF THE PROPERTY OF TH
(12) Base Highway Network	(37) Historical Significance undetermined  ConditionCode
(13) LRS Inventory Route & Subroute 00000000000	
(16) Latitude 42 DEG 23 MIN 25.94 SEC	(58) Deck 3 (59) Superstructure 3
(17) Longitude 71 DEG 11 MIN 48.22 SEC	(60) Substructure 4
(98) Border Bridge State Code Share %	(61) Channel & Channel Protection 6
(99) Border Bridge Structure No. #	(62) Culverts
Structure Type and Material	Load Rating and PostingCode
(43) Structure Type Main: Masonry Code 801	(31) Design Load - Unknown 0
Slab Jointless bridge type: Not applicable	(63) Operating Rating Method - Allowable Stress (AS) 2
(44) Structure Type Appr:	(64) Operating Rating 00.0
Other Code 000	(65) Inventory Rating Method - Allowable Stress (AS) 2 (66) Inventory Rating 00.0
(45) Number of spans in main unit 001	(ob) Inventory realing
(46) Number of approach spans 0000	(76) Bridge Foscing
(107) Deck Structure Type - Concrete Cast-in-Place Code 1	(41) Structure - Open, temporary structi Den, Appraisal Code
(108) Wearing Surface / Protective System:	(67) Structural Evaluation 2
A) Type of wearing surface - Bituminous Code 6	(68) Deck Geometry 2
B) Type of membrane - Unknown Code 8	(69) Underclearances, vert. and horiz.
C) Type of deak protection	(71) Waterway adequacy 7
Age and Service	(72) Approach Roadway Alignment 7
(27) Year Built 1850 (106) Year Reconstructed 1900	(36) Traffic Safety Features 0 0 0 0
	(113) Scour Critical Bridges 6  Inspections
(42) Type of Service: On - Highway-Ped  Under - Waterway Code 55	(90) Inspection Date 05/21/20 (91) Frequency 24 MO
onder Waterney	(92) Critical Feature Inspection: 5/2/22 (93) CFI DATE
(LO) Lancor on Structure	(A) Fracture Critical Detail N 00 MO A) 00/00/00
(25) The lage Daily plants	(B) Underwater Inspection Y 12 MO B) 11/29/21
(55) Tear of 7.15	(C) Other Special Inspection Y 06 MO C) (1/24/21)
(19) Bypass, detour length 005 KM	(*) Other Inspection () N 00 MO *) 00/00/00
(48) Length of maximum span 0002.0 M	(*) Closed Bridge N 00 MO *) 00/00/00
(49) Structure Length 00002.9 M	(*) UW Special Inspection N 00 MO *) 01/13/17
(50) Curb or sidewalk: Left 02.7 M Right 00.0 M	(*) Damage Inspection MO *) 00/00/00
(51) Bridge Roadway Width Curb to Curb 013.3M	Report Date 00/00/00 H20 Type 3 Type 3S2 Type HS
(52) Deck Width Out to Out 023.7 M	Operating 0.0 0.0 0.0 0.0
(32) Approach Roadway Width (w/shoulders) 013.3M	Inventory 0.0 0.0 0.0 0.0
(33) Bridge Median - No median Code 0	Field Posting
(34) Skew 00 DEG (35) Structure Flared	Status Posting Date 00/00/00
(10) Inventory Route MIN Vert Clear 99.99 M	2 Axle 3 Axle 5 Axle Single
(47) Inventory Route Total Horiz Clear 13.3 M	Actual
(53) Min Vert Clear Over Bridge Rdwy 99.99 M	Recommended
(54) Min Vert Underclear ref N 00.00 M	Missing Signs N Misc.
(55) Min Lat Underclear RT ref N 00.0 M	Bridge Name
(56) Min Lat Underclear LT 00.0 M	N Anti-missile fence N Acrow Panel N Jointless Bridge
Navigation Data	Freeze/Thaw N : Not Applicable
(38) Navigation Control - No navigation control on waterway Code 0	# Stairs On/Adjacent 0 Stair Owner(s)
(111) Pier Protection Code	Accessibility (Needed/Used)
(39) Navigation Vertical Clearance 000.0M	N / N Liftbucket N / N Rigging N / N Other
(116) Vert-lift Bridge Nav Min Vert Clear M	N/N Ladder N/N Staging
(40) Navigation Horizontal Clearance 0000.0 M	N / N Boat N / N Traffic Control
	Inspection
	Y / Y Wader N / N RR Flagperson Hours: 1024

Report Date: May 11, 2022  State Information	ClassificationCode
BDEPT#= B07015=W04039 Agency Br.No.	(112) NBIS Bridge Length N
Town= Belmont=Waltham L.O.	(104) Highway System N
B.I.N= 7VB AASHTO= 00	2.0 (26) Functional Class - Urban Arterial 14
RANK= 0 H.I.= 90.6 % Identification FHWA Select List= N (6/21/	17) (100) Defense Highway
/9) Structure Number B070157VBMUNC	VL (101) Parallel Structure N
(8) Structure Number 60/015/VerMore (5) Inventory Route 2000000	00 (102) Direction of Traffic - 2-way traffic 2
(2) State Highway Department District	04 (103) Temporary Structure Y
(3) County Code 017 (4) Place code 050	70 (105) Federal Lands Highways 0
	OK (110) Designated National Network N
(7) Facility Carried ST 60 TRAPELO	RD (20) Toll - On free road 3
(9) Location	(21) Maintain - Town Agency 03
(11) Kilometerpoint 0000.0	00 (22) Owner - Town Agency 03
(12) Base Highway Network	N (37) Historical Significance undetermined
(13) LRS Inventory Route & Subroute 000000000000	Code
(16) Latitude 42 DEG 23 MIN 25.94 S	
(17) Longitude 71 DEG 11 MIN 48.22 S	
(98) Border Bridge State Code Share 9	(60) Substructure
(99) Border Bridge Structure No. #	(61) Channel & Channel Protection 6 (62) Culverts N
Structure Type and Material	(62) Culverts N Load Rating and PostingCode
(43) Structure Type Main: Masonry Code 8	O1 (31) Design Load - Unknown 0
Slab Jointless bridge type: Not applicable	(63) Operating Rating Method - Allowable Stress (AS) 2
(44) Structure Type Appr:	(64) Operating Rating 00.0
Other Code 0	00 (65) Inventory Rating Method - Allowable Stress (AS) 2
(45) Number of spans in main unit 0	01 (66) Inventory Rating 00.0
(46) Number of approach spans 00	00 (70) Bridge Posting 0
(107) Deck Structure Type - Concrete Cast-in-Place Code	1 (41) Structure - Open with shoring D
(108) Wearing Surface / Protective System:	AppraisalCode
A) Type of wearing surface - Bituminous Code	6 (67) Structural Evaluation 2
B) Type of membrane - Unknown Code	8 (68) Deck Geometry 2 (69) Underclearances, vert, and horiz.
C) Type of deck protection - None Code	0 (65) Shadistedianes, vertical and normal
Age and Service	(71) Waterway adequacy 7 (72) Approach Roadway Alignment 7
(27) Year Built	50 (36) Traffic Safety Features 0 0 0 0 0
(106) Year Reconstructed	00 (113) Scour Critical Bridges 6
(42) Type of Service: On - Highway-Ped	Inspections
Under - Waterway Code 5	5 (90) Inspection Date 05/02/22 (91) Frequency 24 M
(28) Lanes: On Structure 04 Under structure	00 (92) Critical Feature Inspection: (93) CFI DATE
(29) Average Daily Traffic 0330	
(30) Year of ADT 2018 (109) Truck ADT 08	
(19) Bypass, detour length 005 H	
Geometric Data	(*) Other Inspection () N 00 MO *) 00/00/0
(48) Length of maximum span 0002.0	
(49) Structure Length 00002.9	
(50) Curb or sidewalk: Left 02.7 M Right 00.0	Pating Loads
(51) Bridge Roadway Width Curb to Curb 013.3	Report Date 00/00/00 H20 Type 3 Type 3S2 Type HS
(52) Deck Width Out to Out 023.	Operating 0.0 0.0 0.0
(32) Approach Roadway Width (w/shoulders) 013.3	inventory 0.0 0.0 0.0
(33) Bridge Median - No median Code	. Total rooming
(34) Skew 00 DEG (35) Structure Flared	N Status Posting Date 00/00/00
(10) Inventory Route MIN Vert Clear 99.99	A SECTION AND ADDRESS OF THE PROPERTY OF THE P
(47) Inventory Route Total Horiz Clear	E I
(53) Min Vert Clear Over Bridge Rdwy 99.99	Mindre Clare N
(54) Min Vert Underclear ref N 00.0	Misc.
(55) Min Lat Underclear RT ref N 00.	Bridge Name
(56) Min Lat Underclear LT 00.1	M N Anti-missile fence N Acrow Panel N Jointless Bridge
(38) Navigation Control - No navigation control on waterway Code	Freeze/Thaw N : Not Applicable
	# Stairs On/Adjacent 0 Stair Owner(s)
	Accessibility (Needed/Used)
(222) 161 1 10101011	
(39) Navigation Vertical Clearance 000.0	N/N Liftbucket N/N Rigging N/N Other
(39) Navigation Vertical Clearance 000.0 (116) Vert-lift Bridge Nav Min Vert Clear	M N/N Liftbucket N/N Rigging N/N Other M N/N Ladder N/N Staging
(39) Navigation Vertical Clearance 000.0	M N/N Liftbucket N/N Rigging N/N Other N/N Ladder N/N Staging N/N Boat N/N Traffic Control
(39) Navigation Vertical Clearance 000.0 (116) Vert-lift Bridge Nav Min Vert Clear	M N/N Liftbucket N/N Rigging N/N Other M N/N Ladder N/N Staging

# 10 YEAR RATING EVALUATION FORM

### To be Filled out by DBIE:

to be rilled of	אני מא אני	ore:												
This Evaluation	n Date:	11/07/2	022											
District : 04	Cit	y/Town	: Belmont				Br. No. : B-07-015 BIN: 7VB							
	Struc	cture No	: B07015-	-7VB-MUN	N-CUL		-22 (Ow	ner): 03	: Town A	gency				
I-7 (Facilit	y Carrie	d):ST-60	TRAPELO	) RD										
I-43 (Struct	ure Typ	e):801:	Masonry	Slab										
I–6 (features Int	tersecte	d):WATE	R BEAVER	R BROOK			I-27 (YF	R Built):1	850	I-106 (Y	'R Rebui	lt):1900		
	·Co	ndition	Rating fi	rom the	latest In	spection	Report							
	ir	spection	Date:	1-58		i-59	1-60		1-62					
		5/2/2	22	3		3	4		N					
Prior Rating In	formation for the formation fo	nn .												
RATING			1-60	1-62	Inv	entory Ra	ating Val	ues	Оре	rating Ra	iting Val	ues		
DATES	I-58	I-59	1-00	1-02	H-20	Type 3	3S2	HS20	H-20	Type 3	3S2	HS20		
00/00/00					0	0	0	0	0	0	0	0		
Reason: No Reason:	Rating Stee	n the foll	lowing p	riority: ligh	been ns ar	ade work		over Soin H		Low replace				
DBIE: Joseph		Dideo			, Da	te or sub	11/8		1/2			ory rine		