MONTAGUE TOWN BRIDGES

BIN	Structure Number	Over	Under	41 Open Status	58 Deck Condition	59 Superstructure	60 Substructure Co	62 Culvert Conditi	Routine Inspectior	Inspection Frequei	Fracture Critical In	Special Member In
5Y3	M280055Y3MUNDUM	HWY PAPER MILL RD	WATER MILLERS RIVER	А	6	5	5	Ν	1/29/2018	24	1/29/2018	00/00/00
OR5	M280110R5MUNCLO	HWY SOLAR AVE	RR BMRR (ABANDONED)	к	0	5	6	Ν	2/12/1998	6	9/17/1998	00/00/00
5Y4	M280145Y4MUNPED	HWY E MINERAL RD	WATER MILLERS RIVER									
OR2	M2816AOR2MUNNBI	HWY SIXTH ST	WATER UTILITY CANAL	К	4	6	6	Ν	9/23/2019	U	00/00/00	00/00/00
OR3	M280160R3MUNCLO	HWY SIXTH ST	WATER UTILITY CANAL	К	0	3	6	Ν	7/22/1998	6	7/22/1998	00/00/00
0R4	M280170R4MUNNBI	HWY ELEVENTH ST	WATER UTILITY CANAL	Ρ	7	6	5	Ν	11/15/2020	24	41900	00/00/00
AGH	M28022AGHMUNNBI	HWY SFERRY RD	WATER SAWMILL RIVER	А	7	8	8	Ν	5/4/2020	24	00/00/00	00/00/00
AGJ	M28023AGJMUNNBI	HWY MEADOW RD	WATER SAWMILL RIVER	Α	7	6	7	Ν	12/5/2019	24	00/00/00	9/3/2011
OMB	M280240MBMUNNBI	HWY MAIN ST	WATER SAWMILL RIVER	А	7	6	6	Ν	11/12/2019	24	00/00/00	9/3/2011
0MC	M280250MCMUNNBI	HWY CENTER ST	WATER SAWMILL RIVER	Ρ	5	3	6	Ν	10/30/2019	6	00/00/00	10/31/2018
OR6	M280260R6MUNNBI	HWY SOUTH ST	WATER SAWMILL RIVER	D	6	4	6	Ν	10/24/2019	12	00/00/00	10/17/2018
AQ9	M28028AQ9MUNNBI	HWY PROSPECT ST	HWY SPRING ST	А	8	8	8	Ν	10/17/2018	24	00/00/00	00/00/00
BVA	M28030BVAMUNBRI	HWY CHSTNT HL LO	WATER CHSTNT HL BRK	А	5	5	2	Ν	8/9/2019	6	00/00/00	2/5/2019
0MD	M280340MDMUNNBI	HWY N LEVERET RD	WATER SAWMILL RIVER	Ρ	5	4	4	Ν	3/14/2019	12	00/00/00	3/14/2019
AP9	M28035AP9MUNNBI	HWY DAVIS RD	WATER LYONS BROOK	А	7	8	8	Ν	5/9/2020	24	00/00/00	00/00/00
5NB	M280365NBMUNBRI	HWY SWAMP RD	WATER GODDARD BROOK	А	5	5	6	Ν	5/3/2017	24	00/00/00	00/00/00
5NC	M280375NCMUNCUL	HWY E CHSTNT HL	WATER CHSTNT HL BRK	А	Ν	Ν	Ν	7	00/00/00	24	00/00/00	00/00/00
OR9	M280400R9MUNNBI	HWY SPLDNG BK RD	WATER SAWMILL RIVER	А	7	7	6	Ν	7/13/2017	24	00/00/00	00/00/00
OR8	M280410R8MUNNBI	HWY MORMN HLW RD	WATER LYONS BROOK	А	Ν	6	6	Ν	7/14/2017	24	00/00/00	00/00/00
63N	M2804363NMUNPED	OTHER 5TH ST PED	WATER UPPER CANAL									
63P	M2804463PMUNPED	OTHER PAPR MLL PED	WATER UPPER CANAL									

MONTAGUE TOWN BRIDGES

Structure Number Last 3 Characters

BRI=Less than NBI length, usually between 10 and 20' span - meets state definition of bridge, inspected by MassDOT

CLO=Bridge is Closed, No longer Inspected as required of NBI Bridges

CUL=Culvert, less than 10' span

DUM=Dummy entry - town-line bridge is inventoried under the number for the other townin this case Erving E-10-005

NBI=National Bridge Inventory bridge - meets fed definition of bridge >20' span, requires inspection at least every 2 years (inspected by MassDOT) PED=Pedestrian bridge, not covered by law requiring inspection of highway bridges

Open Status

A=Open D=Open with Temporary Shoring in Place K=Closed P=Posted for reduced load capacity

Fracture Critical Inspection

Additional inspection focused on bridges with members that the failure of a single major tension member or member element will cause a significant portion or the entire bridge to collapse due to a lack of redundancy Generally this applies to truss bridges

Special Member Inspection

Once the condition of the deck, superstrucutre, or substrucutre falls to a condition rating of 4 (poor) or below, that part gets inspected more frequently, every 12 months for a 4, every 6 months for a 3

MONTAGUE TOWN BRIDGES

Bridge Condition Ratings

N NOT APPLICABLE

- 9 EXCELLENT CONDITION
- 8 VERY GOOD CONDITION no problems noted.
- 7 GOOD CONDITION some minor problems.
- 6 SATISFACTORY CONDITION structural elements show some minor deterioration.
- 5 FAIR CONDITION all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.
- 4 POOR CONDITION advanced section loss, deterioration, spalling or scour.
- 3 SERIOUS CONDITION loss of section, deterioration of primary structural elements. Fatigue cracks in steel or shear cracks in concrete may be present.
- 2 CRITICAL CONDITION advanced deterioration of primary structural elements. Fatigue cracks in steel or shear cracks in concrete may be present or scour may have removed substructure support. Unless closely monitored it may be necessary to close the bridge until corrective action is taken.
- 1 "IMMINENT" FAILURE CONDITION major deterioration or section loss present in critical sructural components or obvious vertical or horizontal movement affecting structure stability. Bridge is closed to traffic but corrective action may put it back in light service.
- 0 FAILED CONDITION out of service; beyond corrective action.

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION PAGE _ 1 OF _ 20

2-DIST B.I.N. 02 0R2

STRUCTURES INSPECTION FIELD REPORT ROUTINE & SPECIAL MEMBER INSPECTION

BR. DEPT. NO. M-28-16A

CITY/TOWN			8S7	FRUCTURE NO.			1	1-Kilo. POINT	41-STATUS	90-R	OUTI	NE INS	SP. DATE
IONTAGUE				M2816A-0F	R2-MU	N-NB		000.032	P:POSTED	5	SEP	23,	2019
7-FACILITY CARRIED				MEMORIAL NAM	E/LOCAL N	IAME	,	27-YR BUILT 1988	106-YR REBUILT 0000	YR I		B'D (N 0000	ON 106))
6-FEATURES INTERSECTED	2 X			26-FUNCTIONAL	CLASS		DIST. BI	RIDGE INSPECT	TON ENGINEER	MB	rrett	_	-
VATER UTILITY C	ANAL	-		Urban Loca	al				1/10/-	The	+		
3-STRUCTURE TYPE 10: Steel Truss -	Thru			22-OWNER Town Agency	21-MAINT		TEAM L	EADER R. FI	en R	7	-La	L uh	ļ
D7-DECK TYPE			6	weather Clear	TEMP. (air 26 °	, ,		ORIN	-	_	1×1		
ITEM 58	4	6	ITE	EM 59		6	1	ITEM	1 60	Г	6		a.
DECK	4	DEF	SUP	erstructui	RE	6		SUBST	RUCTURE		0		DEF
.Wearing surface	N			ingers	7	N	1 -	1. Abu		Dive	Cur	6	
Deck Condition	4	S-P		orbeams		7		a. Pede	stals	N	N		-
	N		3.Flo	or System Braci	na	7			e Seats	N	6		9
Stay in Place Forms				ders or Beams		N N		c. Back		N	6 6		- M-P
.Curbs	6			usses - General	<u>.</u>	6		e. Wing		N	0 7		- 191-19
.Median	N			Upper Chords	7				Paving/Rip-Rap	N	6		M-P
Sidewalks	Ν	9 4 9			6		-	g. Point		N	N		
Parapets	N			Lower Chords			-	h. Footi	ngs	N	N H		
Railing	6	-		Web Members	6		M-F	j. Scou	r	N	7		
Anti Missile Fence	N	-	d.	Lateral Bracing	7		•	k. Settle	ement	N	7	-	-
	N		е.	Sway Bracings	N		-	<u> </u>		N	N N	8	
0.Drainage System			f.	Portals	N		-		s or Bents		IN	N	-
1.Lighting Standards	N	-	g .	End Posts	6		14-	a. Pede		N	N		
2.Utilities	7	-	6.Pin	& Hangers		N	-	b. Caps	Tellipolis	N	N		
3.Deck Joints	N		7.Co	nn Plt's, Gussets	& Angle	s 7	-	c. Colur		N	N		
4.	N		8.Co	ver Plates		N	-		s/Webs/Pierwalls	N	N N		
5.	N		9.Bea	aring Devices		7	-	e. Point f. Footi		N	N		 2
2			10. Di	aphragms/Cross	s Frames	N	-	g. Piles	5	N	Ν		- 2
6.	N		11. Pi	ns, Snap Rings		5	M-F	h. Scou		N	N		-
	N	S	12.W			7	-	i. Settle	ement	N N	N		<u> </u>
URB REVEAL	50	150		ember Alignmen	+	7	-			N	N		-
		!		aint/Coating		5		3. Pile	Bents			N	
APPROACHES		DEF		ambooating	_	N	M-F	a. Pile C	aps	N	N		-
a. Appr. pavement condition	6	Ξ.	15.				ļ	b. Piles		N	N		-
Appr. Roadway Settlement	7		Year	Painted	N				onal Bracing ontal Bracing	N	N N		
c. Appr. Sidewalk Settlement	N		COLL	ISION DAMAGE:	Diazeo orr	Jain	0	e. Faste		N	N		, T
I.	N	-	None	e() Minor(X)		() Se	vere (MINING (Y/N) If Y	ES ple	ase e	xplain	Y
<i>OVERHEAD SIGNS</i> (Attached to bridge)	Y/N)	DEF	None	VIBRATION:	Moderate Please exp	() Se blain			ON DAMAGE: X) Minor() M	lodera	te () Sev	еге (
. Condition of Welds	N		None	e(X) Minor()	Moderate	() Se	vere (Please explain	04	b (1 0	
. Condition of Bolts	N		Any F	Fracture Critical I	Member:	(Y/N)	V		X) Minor() M	lodera	le () Sev	-
. Condition of Signs	N		-		<u> </u>	(1)(1)	Y	-60 (Div	ve Report): N	/-6	0 (This	Repor	t): 6
. Contract of Orgina			Any C	Cracks: (Y/N)	N			93B-U/	W (DIVE) Insp	-	00/	00/00	000
													_

RTN(1)7-96

PAGE 2 OF 20

CITY/					B.I		BR. DEPT. NO.	8STRU			9	INSPECTI		
MONT	AGUI				OF	R2	M-28-16A	M281	6A-0F	2-MUN-N		SEP 2	23, 20)19
ITE	CM 61	8			7	ľ	TEM 36 TRAFFIC S.	4 <i>FETY</i> 36	COND	DEF	ACCES	SIBILITY	(Y/I	√/P)
CHA	NNEL	&		9	1		Bridge Railing	0	6	M-P			Needed	Used
CHA.	NNEI	. PROTECTIO	V				Transitions	0	N		Lift Buck	et	N	N
			Dive	Cur	DEF		Approach Guardrail	0	5	M-P	Boat		N	N
1.Cha	annel S	Scour	N	7		"1 I	Approach Guardrail Ends	0	6	•	Waders		N	N
2.Em	bankm	ent Erosion	N	6	M-P	WE	IGHT POSTING	Not A	oplicab	le 🗍	Inspecto	r 50	Y	Y
3.Det	oris	1.21	N	6	M-P		<u>(*</u>	Н 3	3\$2 Si	ingle	Rigging		N	N
4.Veg	etatio	n ~.8	N	N	`	Ac	tual Posting	20 25	36	N	Staging		N	N Y
5.Util	ities	the per way	N	N		Re	commended Posting	20 25	36	N	Traffic C		Y N	N N
		lope Protection	N	N		Wa	ived Date: 00/00/0000		ate: 00	0/00/0000	RR Flagg	er	Y	Y
7.Agg	gradati	on	N	7	-		At bri	dge	Other.	Advance	Other:		-	
	der Sy		N	N			ns In Place E Yes,N=No, V	W	E				N	N
						NR:	ability/	NR	- Y	Y	TOTAL	UOIDS	1	
			1				ibility 7		27		TOTAL	HOUKS		24
							EARANCE POSTING	N		S	PLANS	(Y.	′N): [Y
						- No	at X ft	in 0	ft	in meter	-	9		
		OW VELOCITY:					sted Clearance	0			(V.C.R.)	(Y/N):	Ν	
Tidal () High	() Moderate (X) I	_ow () No	ne ()		At bri		E	vance	TAPE#:			
ITEM 61	(Dive Re	eport): N ITEM 6	1 (This	s Repo	rt): 7	N=	ns In Place N Yes,N=No,	S	N.	S I	1		<i>.</i>	
			2/00	1000			=Not Required)				List of new	l tests performe	u.	
93 <i>D-</i> U	J/W IN:	SP. DATE: 00	5/00	/000	J.		ibility							
RATI		t (Y/N): Y					e filled out by DBIE)			r.	S please giv			
Rating	· · · · ·					Req	uest for Rating or Reration	ng (Y/N):	N	L Hi	GH () MED	UM() LOW()	
Date:		03/01/2011				REA	SON:						_	
		on data at time of e : 7 I 60: 7 Da												
156. 0	109	. 7 160. 7 Da	ite . (J9/12	12007			Constant and the second	ob - statistic (bit)					
r	r	× ×			_		CONDITION R		GUI	DD (For	Items 58, 59	60 and 61)		
	CODE	CONDITION NOT APPLICABLE	_				DEFECT	S		-	22			
G	N 9	EXCELLENT		Exceller	nt conditio									
G	8	VERY GOOD			lem noted					4				_
G	7	GOOD	1	Some n	ninor probl	ems,								
F	6	SATISFACTORY		Structur	al elemen	ts show s	ome minor deterioration.							
F	5	FAIR	ŀ	All prim	ary struclu	ral eleme	ents are sound but may have minor	section loss,	cracking,	spalling or scour.				
P	4	POOR	10				erioration, spalling or scour. on, spalling or scour have seriously	affected noise	ary struct	ital componente	l ocal failuree a	e possible. Fatione	cracks	
Р	3	SERIOUS	j	in steel	or shear c	racks in o	concrete may be present.							
С	2	CRITICAL	/	Advanc remove	ed deterio d substruc	ration of p ture supp	primary structural elements. Fatigue port. Unless closely monitored it ma	e cracks in ste ly be necessa	el or shea ry to close	the bridge until o	te may be pres- prrective action	ent or scour may have is taken.	/8	
c	1	"IMMINENT" FAILURE		Major d Bridge i	eterioratio	n or section traffic bi	on loss present in critical structural at corrective action may put it back	components in light servic	or obvious e.	vertical or horizon	ntal movement a	affecting structure st	ablility,	
	0	FAILED	-		contrary and	-	rective action,			-				
-		ALLU	ſ	55,013	, , , , , , , , , , , , , , , , , ,	,		POPT	NC C	THDE				
DEF	CIENC	Y: A defect in a str	ructure	e that re	equires co	rective a	DEFICIENCY RE	TORI	1100					
	_	ES OF DEFICIEN	_		-									
					or in nature,	generally o	to not impact the structural integrity of the ogged drainage, etc.	bridge and could	d easily be re	epaired. Examples inc	lude but are not lin	niled to: Spalled concret	e, Minor po	ж
S=Se	evere/N	Infor Deficiency.	Deficien	icies whi	ch are more	extensive i	n nature and need more planning and effo	rt to repair. Exa	nples includ	e but are not limited to	: Moderate to maj	or deterioration in concre	ete, Expose	ed and
			omoded	d repara,	Consideratio	in seminus	nt, Considerable scouring or undermining, element of a bridge that poses an extreme	Would ale to ex	reliate colle	SIGN TO STILLETURE STOR	A MULTINE ASU ADIC	1035 01 5001011, 010,		
		al Structural Deficien		Adefic	iency in a co	moonent o	r element of a bridge that poses an extrem	te hazard or uns	afe condition	n to the public, but do	es nol impair lhe s'	ructural integrity of the t	ridge. Exa	mples
^{∪-#=}	- Critic	ai Hazai u Delitien	<i>cy</i> -	include etc,	bul are not	limited to: I	Loose concrete hanging down over traffic	or pedestrians, A	hole in a sid	dewalk that may caus	e injuries la pedes	rians, Missing section o	f bridge rai	ling,
URG	ENCY	OF REPAIR:												
	nmediate						Engineer (DBIE) to report the Deficiency Engineer or the Responsible Party (if not a				n Report			
$\mathbf{A} = \mathbf{A}$ $\mathbf{P} = \mathbf{P}$	SAP- rioritize			-			angineer or the Responsible Party (if not a Responsible Party (if not a State owned					5		
	_								_					

RTB(2)04-07

CITY/TOWN MONTAGUE 7-FACILITY CARRIED HWY SIXTH ST 6-FEATURES INTERSECTED	2											
7-FACILITY CARRIED		8	STRUCTURE NO.		11-Kilo, POINT	90-RO	UTINE I	NSP. DAT	E 93*-9	SPEC. M	EMB. I	NSP. D
IWY SIXTH ST			M2816A-0R2-	-MUN-NBI	000.032	Se	p 23,	2019		Sep 2	23, 2	019
-FEATURES INTERSECTED			MEMORIAL NAM	E/LOCAL NAME	27-YR	вопл 988	1	REBUII	T *YR	REHAE	в'D (NO)00	N 106)
			26-FUNCTIONAL	CLASS	DIST. BRIDGE I	NSPECT	ION ENC	JINEER	M, B	arrett		
VATER UTILITY CA	NAL		Urban Loca	al			/	M	5	Ta	>	
-STRUCTURE TYPE 10 : Steel Truss - T	⁻ hru		22-OWNER Town Agency	21-MAINTAINER Town Agency	TEAM LEADER	S. R. Fi		Ŧ		_	1.	
7-DECK TYPE : Steel plate			weather Clear	TEMP. (air) 26°C	TEAM MEMBER		5	F			1	
EIGHT POSTING		plicable		At	bridge	Advar	nce	DI	ANG	()//h	n. 1	7
Actual Posting		3S2 Single 36 N	Signs In (Y=Yes,N			E V	w V		ANS	(Y/N	0.	
Recommended Posting	20 25	36 N	NR=Not F Legibility	Required)			7/_	j (V.	C.R.)	(Y/N	l): N	1
Vaived Date: 00/00/0000) EJDMT Da	ate: 00/0	0/0000 Visibility			_ []	/ (∐ TA	PE#:			-
ATING	2		Desi		- Denetin - Oli		N	If YES	please g	give prio	ority:	
ating Report (Y/N):	Date:	03/01/	2011	uest for Rating o	or Rerating (Y/	N): []		HIGH () ME	DIUM () LOV	∨(
Inanadic- J-t4		ing rating	REAS	SON:				8				
Inspection data at 58: 6 1 59: 7 1 60: 7		• •	9/14/2007				2					
58: 6 159: 7 160: 7	162: -	• •	9/14/2007				~	с. 				
•	162: -	• •		ROSION, SECTION LO GE, STRESS CONCEN	SS (%), CRACKS, NTRATION, ETC.	CONE PREVIOUS (0-9)	DITION PRESENT (0-9)	INV. RAT FROM R H-20	ING OF I ATING A 3	MEMBER NALYSIS	Defi	ciencie
58: 6 159: 7 160: 7 PECIAL MEMBER(S):	162: - : CRACK	Date : 09				PREVIOUS	PRESENT	(-	ciencie 5-P
58: 6 159: 7 160: 7 PECIAL MEMBER(S): MEMBER Item 58.2 - Deck Condition	162: - : CRACK (Y/N):	Date : 09	LOCATION OF CORF			PREVIOUS (0-9)	PRESENT (0-9)	H-20	3	352	-	
58: 6 159: 7 160: 7 PECIAL MEMBER(S): MEMBER Item 58.2 - Deck Condition	162: - : CRACK (Y/N):	Date : 09	LOCATION OF CORF			PREVIOUS (0-9)	PRESENT (0-9)	H-20	3	352	-	
58: 6 159: 7 160: 7 PECIAL MEMBER(S): MEMBER Item 58.2 - Deck Condition	162: - : CRACK (Y/N):	Date : 09	LOCATION OF CORF			PREVIOUS (0-9)	PRESENT (0-9)	H-20	3	352	-	
58: 6 159: 7 160: 7 PECIAL MEMBER(S): MEMBER Item 58.2 - Deck Condition	162: - : CRACK (Y/N):	Date : 09	LOCATION OF CORF			PREVIOUS (0-9)	PRESENT (0-9)	H-20	3	352	-	
8: 6 159: 7 160: 7 PECIAL MEMBER(S): MEMBER Item 58.2 - Deck Condition	162: - CRACK (Y/N): N	Date : 09	LOCATION OF CORF			PREVIOUS (0-9)	PRESENT (0-9)	H-20	3 48	352 75	-	5-P
i8: 6 159: 7 160: 7 PECIAL MEMBER(S): MEMBER Item 58.2 - Deck Condition	162: - CRACK (Y/N): N	Date : 09	LOCATION OF CORF	in comment		PREVIOUS (0-9) 5	PRESENT (0-9) 4	H-20 20	3 48 58 I	352 75	• • • • • • • • • • • • • • • • • • •	5-P
58: 6 159: 7 160: 7 PECIAL MEMBER(S): MEMBER Item 58.2 - Deck	162: - CRACK (Y/N): N	Date : 09	LOCATION OF CORF	in comment	ts section.	PREVIOUS (0-9) 5	PRESENT (0-9) 4	H-20 20	3 48 58 I	-59	• • • • • • • • • • • • • • • • • • •	

CITY/TOWN MONTAGUE	B.I.N. 0R2	BR. DEPT. NO. M-28-16A	8STRUCTURE NO. M2816A-0R2-MUN-NBI	INSPECTION DATE SEP 23, 2019
		REMA	RKS	
BRIDGE ORIENTATI				с.
Bridge carries Sixth S	Street, east to wes	t, over the Utility	Canal which flows north to south	la la
			d 32 floorbeams of the ACROW	panel bridge are
numbered from west	to east. See Ske	tches 1 - 5.		
GENERAL REMARK	<u>(S</u>			
Traffic Direction:		ling cost to woot		
Bridge is open to one	-way traffic, trave	ing easi to west.		

Weight Posting:

East Weight Posting sign acts as both the "Advance" and "At Bridge".

West Approach to the bridge has two "DO NOT ENTER" signs along with a "Advance" Weight Posting. **See Photo 1.**

ITEM 58 - DECK

Item 58.2 - Deck Condition

Deck consists of Steel Deck Panels, 27.5" wide x 5' long with five, longitudinal joists (stringers). Each longitudinal joist is 5' long, with flanges, 2" wide x 0.25" thick and webs, 4" high x 025" thick. **See Sketch 5.**

Each Steel Deck Unit is numbered, west to east, per panel location (area between floorbeams), and then from north to south.

Steel Deck Units:

- Have some pack rusting between the top flange of the fascia stringers and the steel panels, making the top surface bumpy.
- Some of the Steel Deck Units, have holes, near the outer edges of the panels. See Photo 2.
 - Panels 5 & 6, Deck Unit 4
 - Panel 31, Deck Unit 4

Deck Underside:

- Fascia Stringers have rust delamination with section loss.
- Following deck units have rust holes in the web and bottom flanges: See Photo 3.
 - Panel 5, Deck Unit 3
 - Panel 6, Deck Units 2, 4, & 5
 - Panels 7, 8, & 9, Deck Unit 5
 - Panel 11, Deck Unit 4
 - Panel 12, Deck Units 4 & 6
 - Panel 14, Deck Unit 2
 - Panel 22, Deck Unit 1

Anchor Clips at several locations are either broken or loose:

- Between Floorbeams 7 & 8.
- Between Floorbeams 8 & 9.
- Between Floorbeams 14 & 15.
- Between Floorbeams 17 & 18.
- Between Floorbeams 20 & 21.

				PAGE <u>5</u> OF <u>20</u>
CITY/TOWN MONTAGUE	B.I.N. 0R2	BR. DEPT. NO. M-28-16A	8STRUCTURE NO. M2816A-0R2-MUN-NBI	INSPECTION DATE SEP 23, 2019
		REMA	ARKS	2
<u>Item 58.4 - Curbs</u> Steel Curbs are the angles al	long the o	uter edges of the	steel deck. See Sketch 3.	
Curbs have random scrape n	narks alor	ng the length of th	ie bridge.	
North and South Curbs, at the	e East En	d, are bent due to	o collision damage. See Photo 4	. "
Item 58.8 - Railing Bridge Railing is continuous v guardrail attached to H-posts	•	oproach guardrail	, which consists of single panel s	teel W-beam
Some of the bolts connected	to vertical	l truss members a	and some of U-bolts are broken o	or missing.
South Railing & South Truss,	West End	d, are covered by	vegetation.	3
Item 58.12 - Utilities 2" diameter metal conduit tha	t travels a	along the outside	face of the South Truss.	5
APPROACHES	22			
Approaches a - Appr. paven East Approach Roadway ha			o the concrete header.	
West Approach Roadway ha transverse crack x 1/2" wide v			edge of the concrete header, the	ere is a full width
ITEM 59 - SUPERSTRUCTU	RE			2 2
Item 59.2 - Floorbeams Floorbeams have areas of min	nor surfac	e rust. See Pho t	to 5.	
Some Floorbeams are slightly	lifting up	from the floorbea	am bracing system. See Photo 6) .
Item 59.3 - Floor System Bra Floorbeam Bracing System ha		of light rust stainir	ng. See Photo 6.	A
Item 59.5 - Trusses - Genera Item 59.5.a - Upper Chords Top surface of Upper Chords		as of light rust sta	ining. See Photo 7.	80
Item 59.5.b - Lower Chords A few small dents scattered th	roughout	the lower chord.	See Photo 8.	
	-		wall is bent. Appears to be from n) is "NOT" bend or twisted. See	•
North Truss, Lower Chord, We		ent, is almost in c	contact with the top of the canal v	vall, leaving only

1/2" of clearance. See Photo 11.

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	0R2	M-28-16A	M2816A-0R2-MUN-NBI	SEP 23, 2019
		REMA	ARKS	15 21
em 59.5.c - Web Members orth Truss, Northeast End P		ior Web Member	Base, is bent from collision dama	age.
em 59.5.g - End Posts ortheast End Post, interior	vertical v	veb member base	e, is bent from collision damage.	See Photo 12.
em 59.11 - Pins, Snap Ring anel connections between e		s is held in place	by 10 pins with snap rings on eac	ch end of the pin.
few of these snap rings are	corroded	l.,		
em 59.14 - Paint/Coating alvanized Coating on the er	ntire supe	rstructure is fadin	ng. See Photos 5, 6, & 7.	
uperStructure Collision No here is minor collision dama		northeast corner	of the bridge. See Photo 12.	
EM 60 - SUBSTRUCTURE	l Es		ie.	
t <mark>em 60.1 - Abutments</mark> tem 60.1.b - Bridge Seats Vest Bridge Seat is covered	with road	i sand and dead v	vegetation. See Photos 9 & 10.	
em 60.1.c - Backwalls op of the Backwalls are the	concrete	headers at the de	eck ends.	
ast Concrete Header, top S	3outh End	d, is spalled. See	Photo 13.	e.
t <mark>em 60.1.d - Breastwalls</mark> ast & West Stub Abutments	for this b	oridge are 6' to 8' l	behind the canal walls.	
ast Breastwall, under the s	outh trus	s, has a 4' long x	up to 1/8" wide horizontal crack.	See Photo 14.
tem 60.1.f - Slope Paving/F Stub Abutments for this bridg butments.		nind the concrete	canal walls, which provide protec	ction for both
SubStructure Undermining East stub abutment rests on ace to the back surface. The benetration. See Photo 15.	1" diamet	ter stone and pile the breastwall is	s. The breastwall is 24' wide x 8' undermined, 18' wide x up to 1' h	' deep from the front high x up to 20''
TEM 61 - CHANNEL AND C	HANNE			

East Breastwall is undermined along the front face, 24' length x 1' height x 20" penetration. See Photo 15.

Item 61.3 - Debris Canal has miscellaneous debris (tires, logs, bikes, etc).

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REMARKS

TRAFFIC SAFETY

Item 36a - Bridge Railing

Refer to Item 58.8. - Railing.

Item 36b - Transitions

Approach guardrail travels across the bridge from approach to approach, with no transition.

Item 36c - Approach Guardrail

Approach guardrails consist of single panel steel W-beam on steel H-posts with steel offset blocks.

Southwest & Southeast approach guardrails have some scrapes.

Item 36d - Approach Guardrail Ends

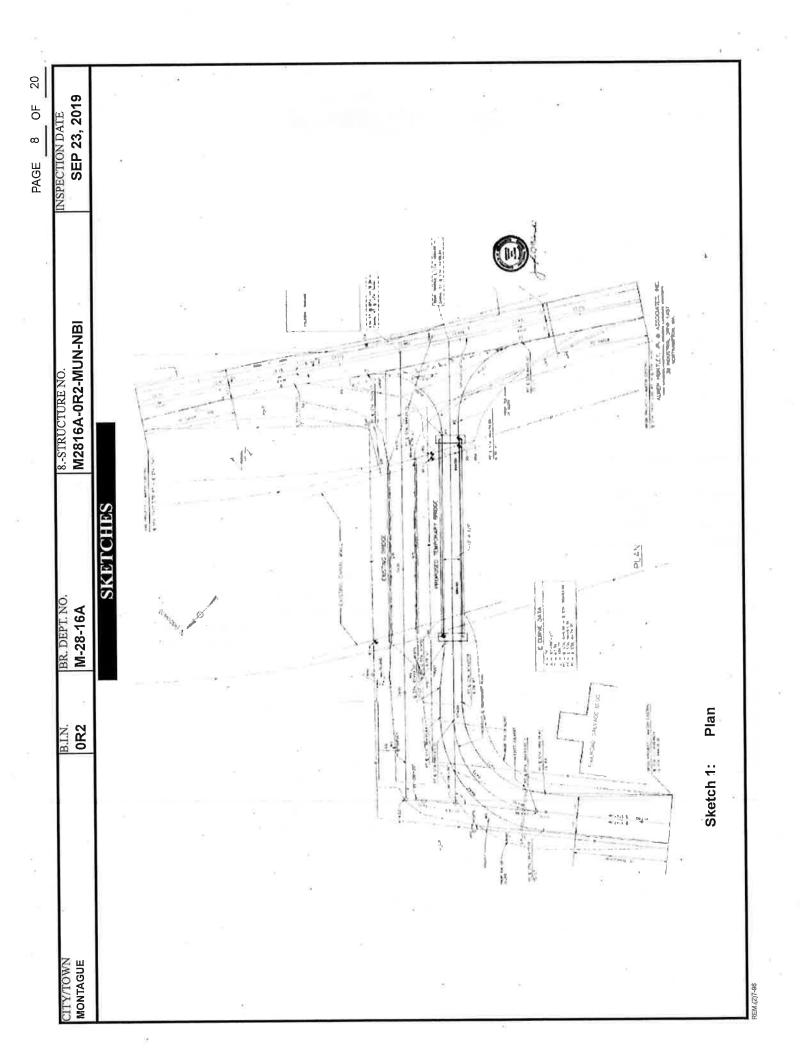
Southwest Approach Guardrail continues beyond the limits of the bridge.

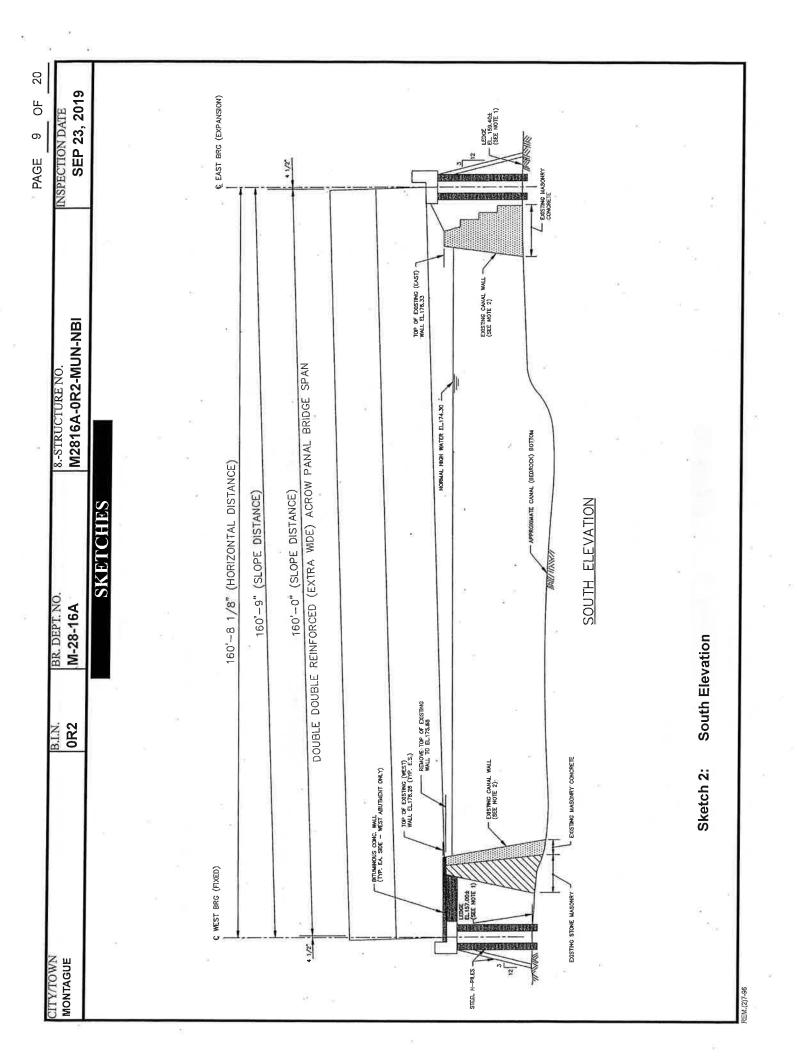
Northwest, Northeast, & Southeast approach guardrails have terminal ends.

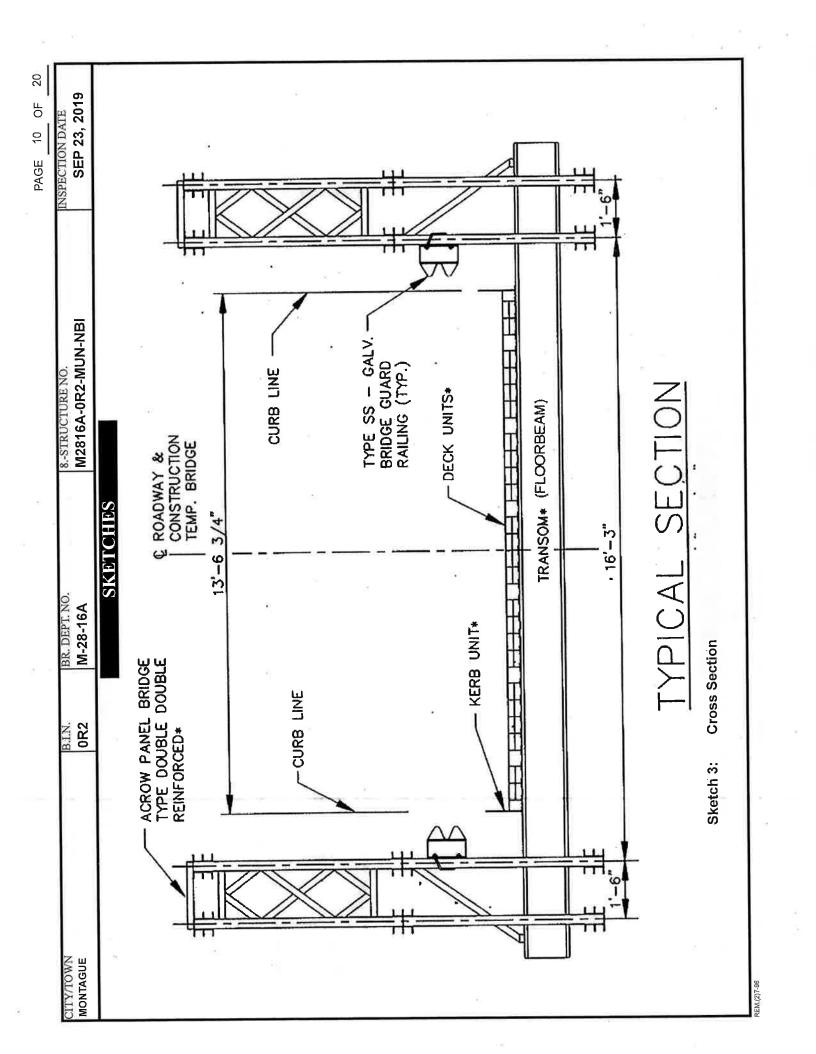
Northwest Approach Guardrail End has collision damage. See Photo 16.

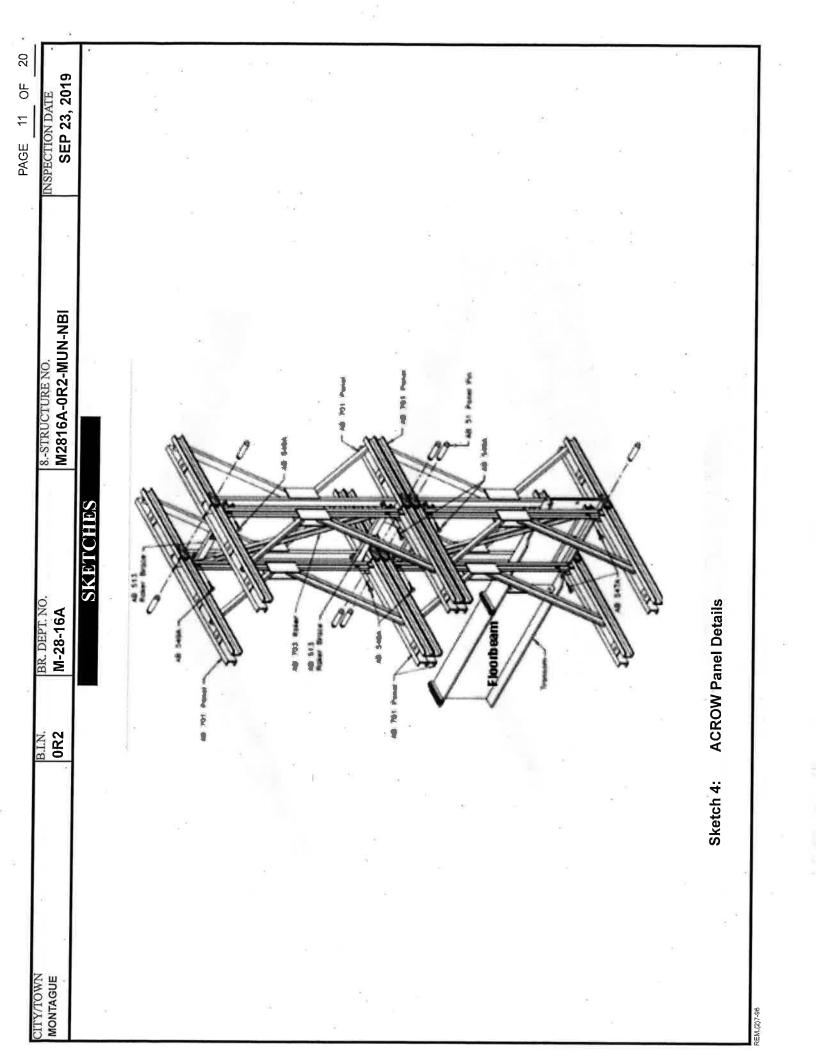
Sketch / Photo Log

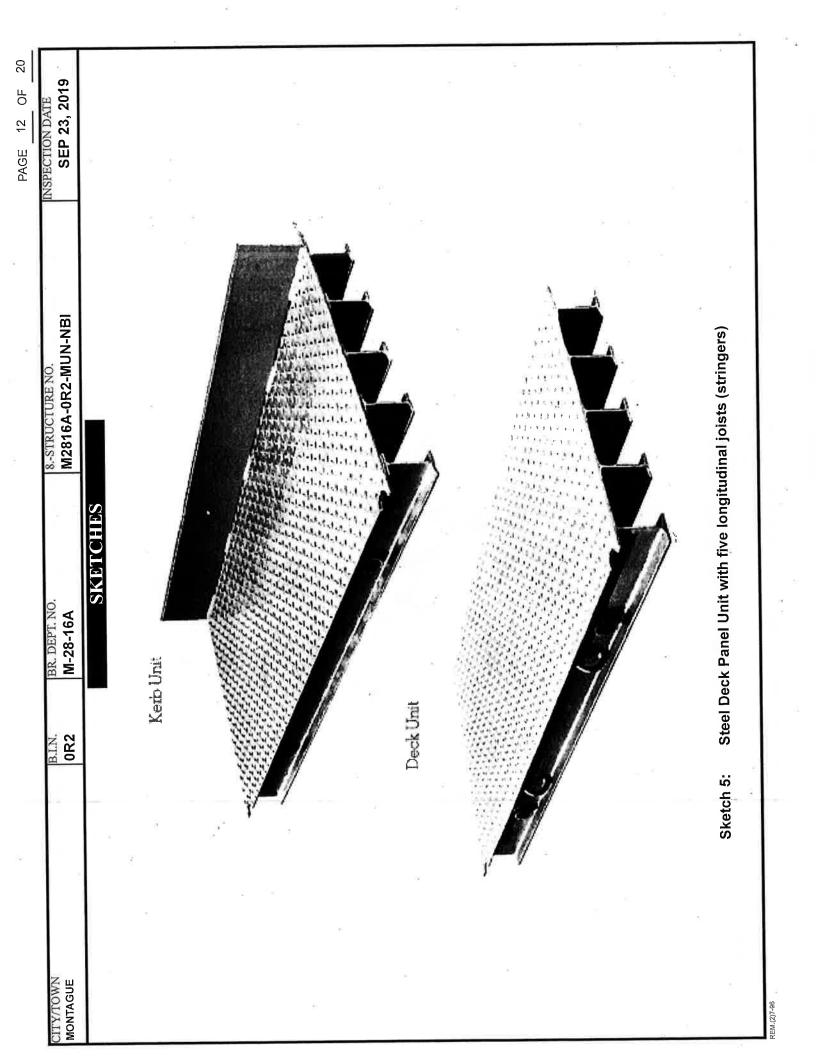
- Sketch 1: Plan
- Sketch 2: South Elevation
- Sketch 3: Cross Section
- Sketch 4: ACROW Panel Details
- Sketch 5: Steel Deck Panel Unit with five longitudinal joists (stringers)
- Photo 1: West Approach, has two "DO NOT ENTER" signs along with a "Advance" Weight Posting.
- Photo 2 : Steel Deck Panels have some pack rusting, between top flange of the fascia joints and steel panels. A few Deck Panels have through holes near the outer edges of the panels.
- Photo 3 : Deck Underside has rust delamination with section loss of some fascia stringers. Stringers have rust holes through the webs and bottom flanges.
- Photo 4: Northeast corner of the Steel Curb is bent due to collision damage.
- Photo 5: Floorbeams have areas of minor surface rust. West Abutment is undermined.
- Photo 6 : Some Floorbeams, are slightly lifting up from Floorbeam Bracing System. Floorbeam Bracing System has areas of light rust staining.
- Photo 7: Top surface of Upper Chords have areas of light rust staining.
- Photo 8 : Lower Cord has a few small dents scattered throughout the bridge.
- Photo 9: North Truss, Lower Interior Cord, East Back Wall, is bent and twisted. This appears to be from original construction.
- Photo 10 : North Truss, Lower Exterior Cord, East Back Wall is "NOT" bent or twisted.
- Photo 11: North Truss, Lower Chord, West Abutment, is almost in contact with the top of the canal wall, leaving only 1/2" of clearance.
- Photo 12: Northeast End Post, interior vertical web member base, is bent from collision damage.
- Photo 13: East Concrete Header, South End, is spalled.
- Photo 14 : East Breastwall, under South Truss, has a 4' long x up to 1/8" wide horizontal crack.
- Photo 15: East Breastwall is undermined along the front face with up to 20" penetration.
- Photo 16: Northwest Approach Guardrail End has collision damage at the bridge abutment.











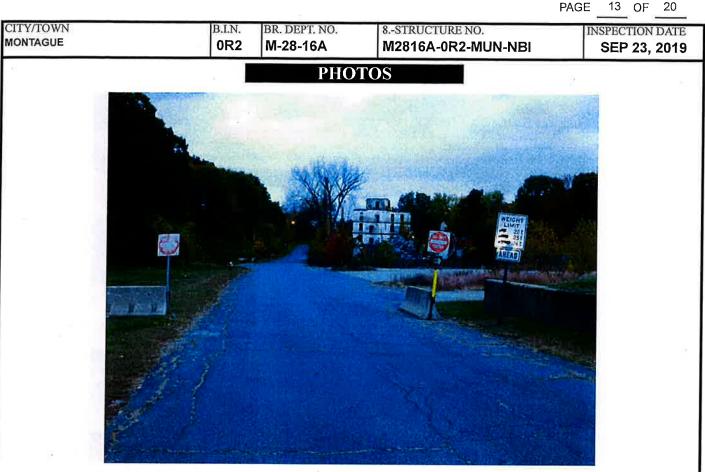


Photo 1: West Approach, has two "DO NOT ENTER" signs along with a "Advance" Weight Posting.





Steel Deck Panels have some pack rusting, between top flange of the fascia joints and steel panels. A few Deck Panels have through holes near the outer edges of the panels.

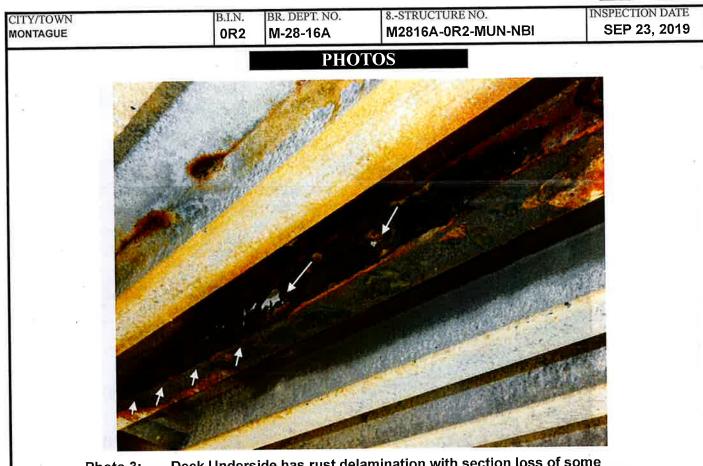


Photo 3: Deck Underside has rust delamination with section loss of some fascia stringers. Stringers have rust holes through the webs and bottom flanges.

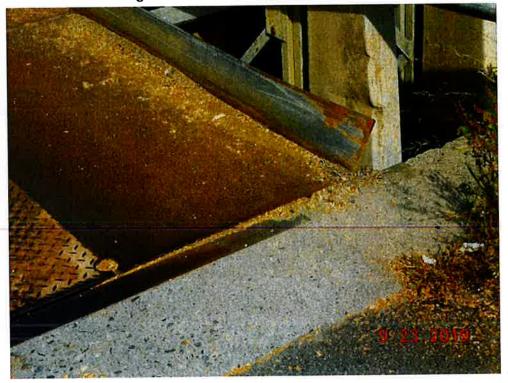


Photo 4: Northeast corner of the Steel Curb is bent due to collision damage.

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Photo 5: Floorbeams have areas of minor surface rust. West Abutment is undermined.





Some Floorbeams, are slightly lifting up from Floorbeam Bracing System. Floorbeam Bracing System has areas of light rust staining.

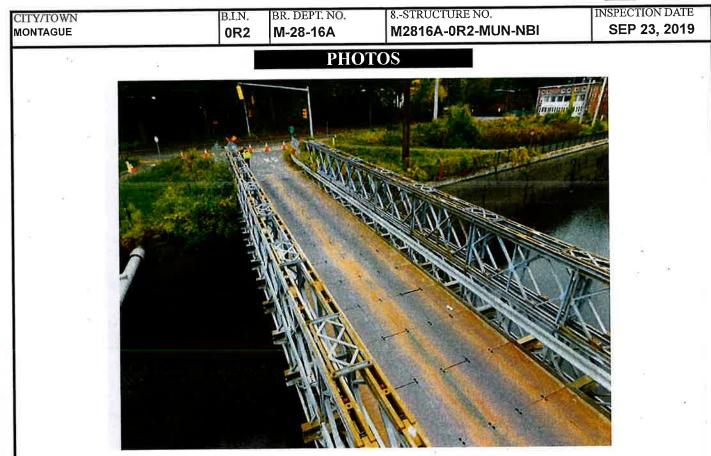


Photo 7: Top surface of Upper Chords have areas of light rust staining.



Photo 8: Lower Cord has a few small dents scattered throughout the bridge.

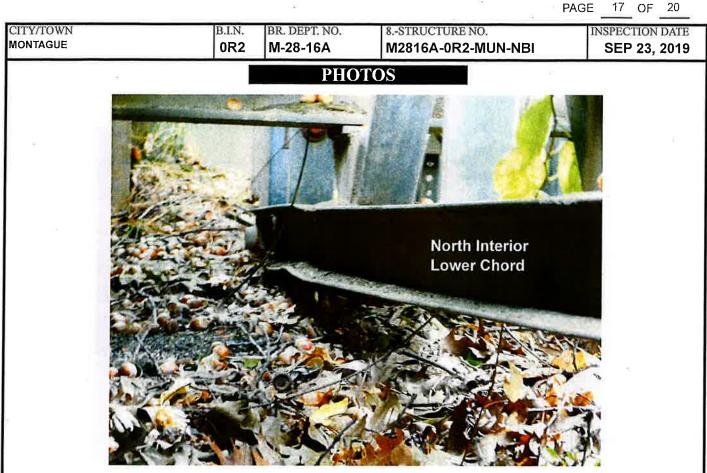


Photo 9: North Truss, Lower Interior Cord, East Back Wall, is bent and twisted. This appears to be from original construction.



Photo 10: North Truss, Lower Exterior Cord, East Back Wall is "NOT" bent or twisted.

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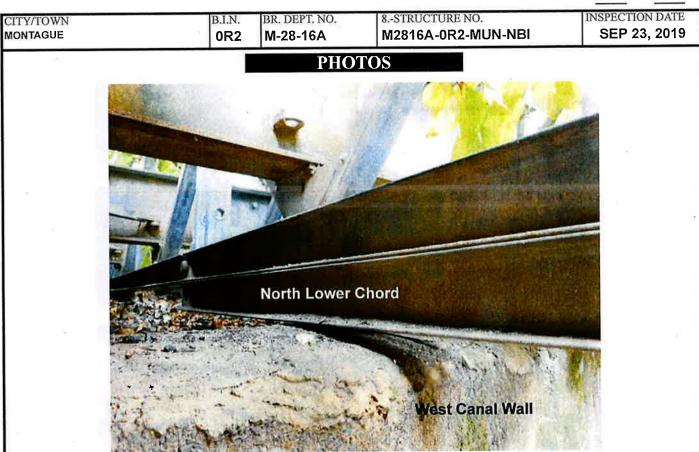


Photo 11: North Truss, Lower Chord, West Abutment, is almost in contact with the top of the canal wall, leaving only 1/2" of clearance.



Photo 12: Northeast End Post, interior vertical web member base, is bent from collision damage.

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Photo 13: East Concrete Header, South End, is spalled.

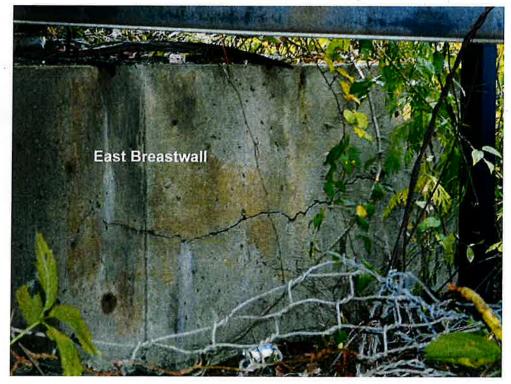


Photo 14: East Breastwall, under South Truss, has a 4' long x up to 1/8" wide horizontal crack.

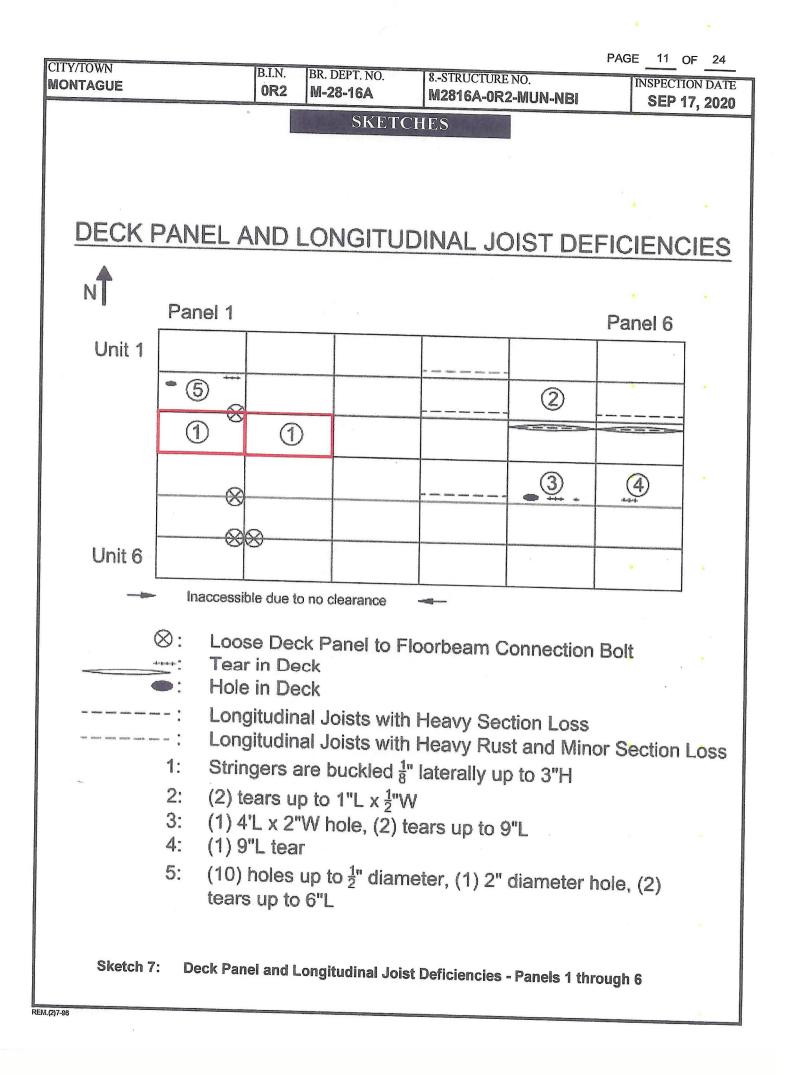
CITY/TOWN MONTAGUE	B.I.N. 0R2	BR. DEPT. NO. M-28-16A	8STRUCTURE NO. M2816A-0R2-MUN-NBI	INSPECTION DATE SEP 23, 2019
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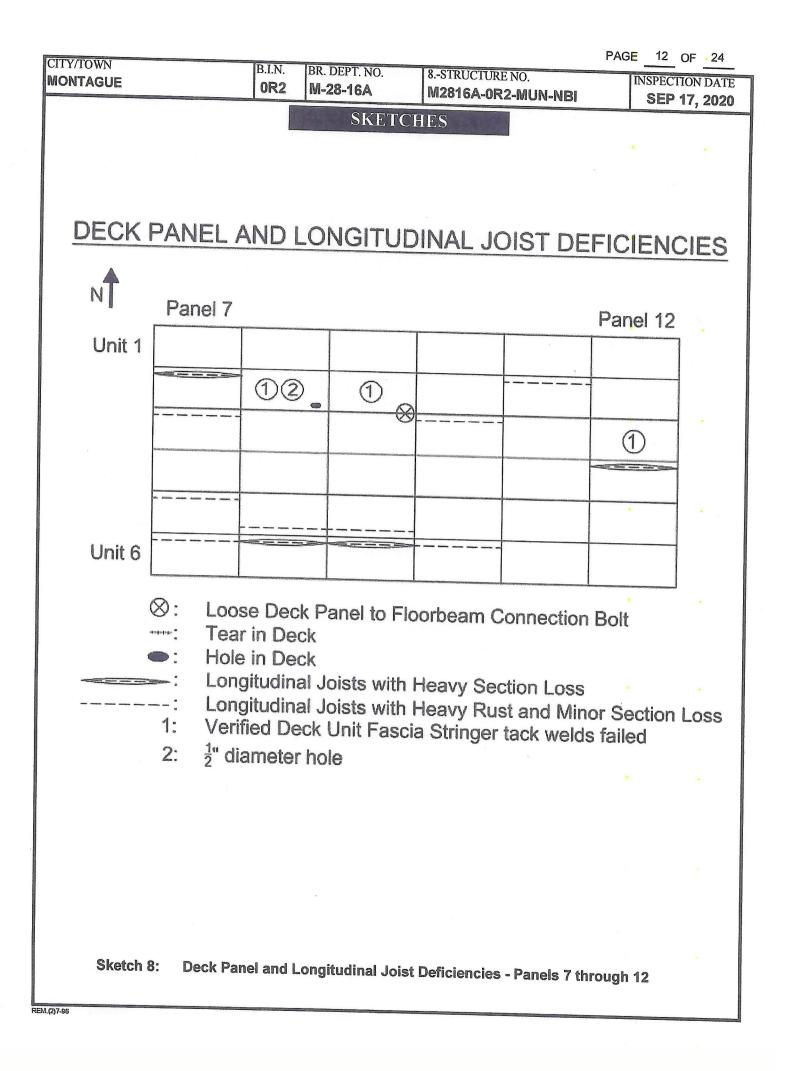
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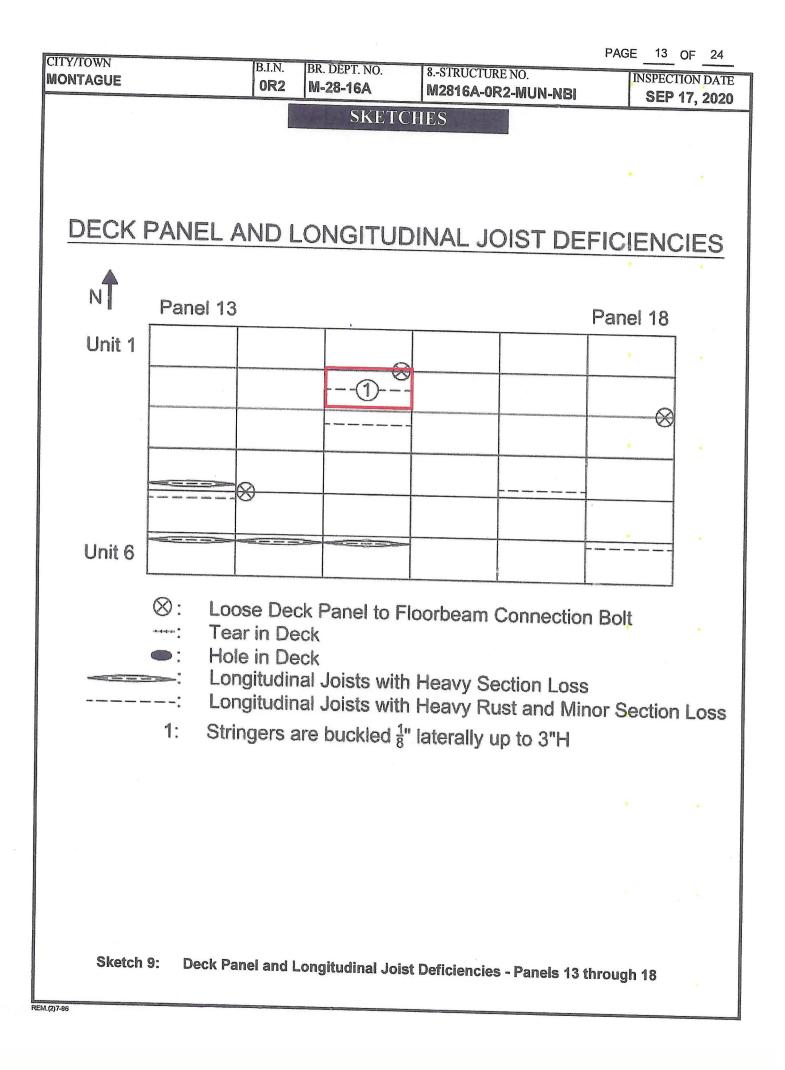
Photo 15: East Breastwall is undermined along the front face with up to 20" penetration.



Photo 16: Northwest Approach Guardrail End has collision damage at the bridge abutment.







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MONTAGUE 0R2		M-28-16A M2816A-0R2-MUN-NBI			NBI	INSPECTION DATE SEP 17, 2020		
SKETCHES								
DECK PANEL AND LONGITUDINAL JOIST DEFICIENCIES								
							· · · ·	
N Pan	el 19				Panel 2	23		
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 Loose Deck Panel to Floorbeam Connection Bolt Tear in Deck 								
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: Longitudinal Joists with Heavy Section Loss								
: Longitudinal Joists with Heavy Rust and Minor Section Loss								
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Sketch 10: Deck Panel and Longitudinal Joist Deficiencies - Panels 19 through 23								
- Pariers 19 Inrough 23								
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