

LOAD RATING INSPECTION REPORT

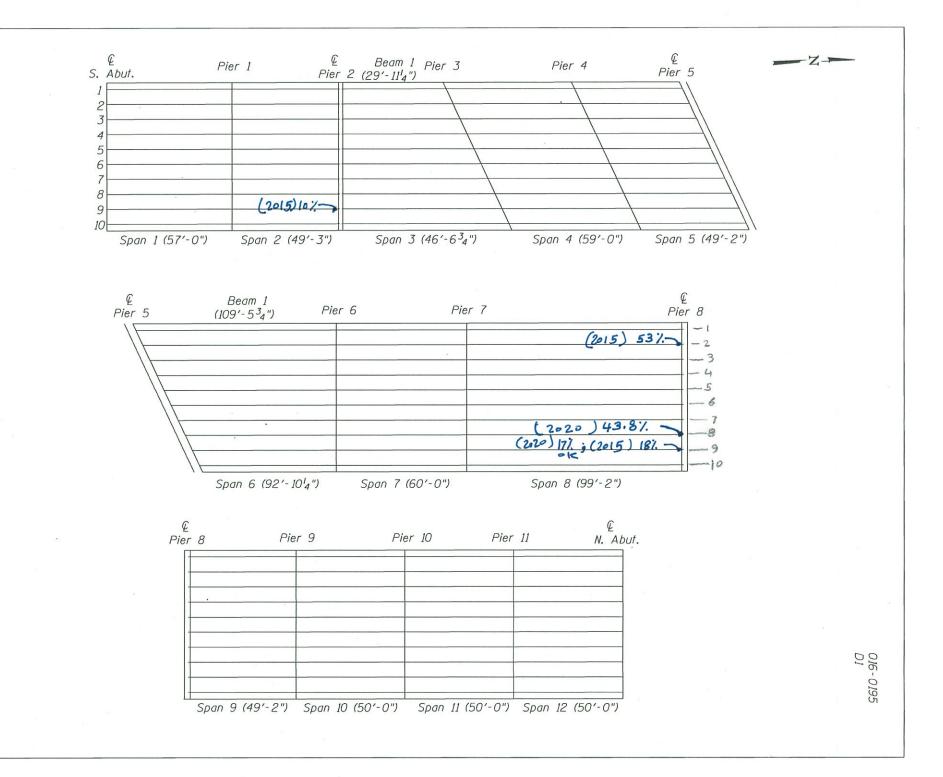
Structure Nu	mber:	016-01	95	District:	1	Date:	02/28/20	
Carried/Cros	sed:	<u>IL 1 ov</u>	er IHB RR		Pro	posed Year of Imp	provement:	FY20
Inspection Da	ate:	10/9/1	9	Inspector(s):	M.V.	Re	viewed by:	RAD
	Init	tial NBI	S Ratings			Recommende	d NBIS Ratir	ngs
58	5	9	60	62	58	59	60	62
5	3	3	3		5	2	3	
Remarks:								

Forwarded to:	R. Boehler	Date:	3/3/2020
		-	

Additional Comments: 2015 LRI did show measured steel thickness, but percentages were not noted. Section loss percentages were requested, please see included email with percentages noted along with 2015 LRI. Due to section loss of 53% at beam 2, Pier 8, Span 8, superstructure rating was lowered to a 2.

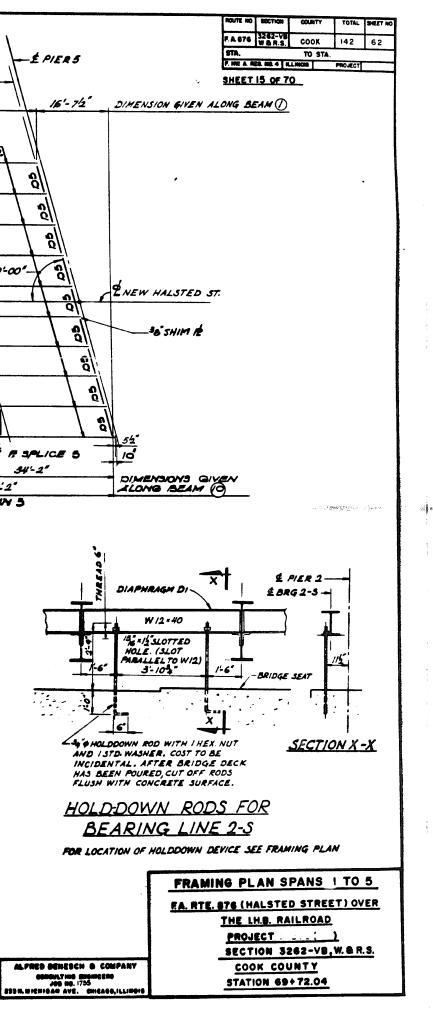
2020 beam end section loss measurements for beam 8, Pier 8, Span 8 yielded section loss of 44%, please see enclosed section loss calculations. Beam 2 and beam 9 beam end repairs have been included in the upcoming contract.

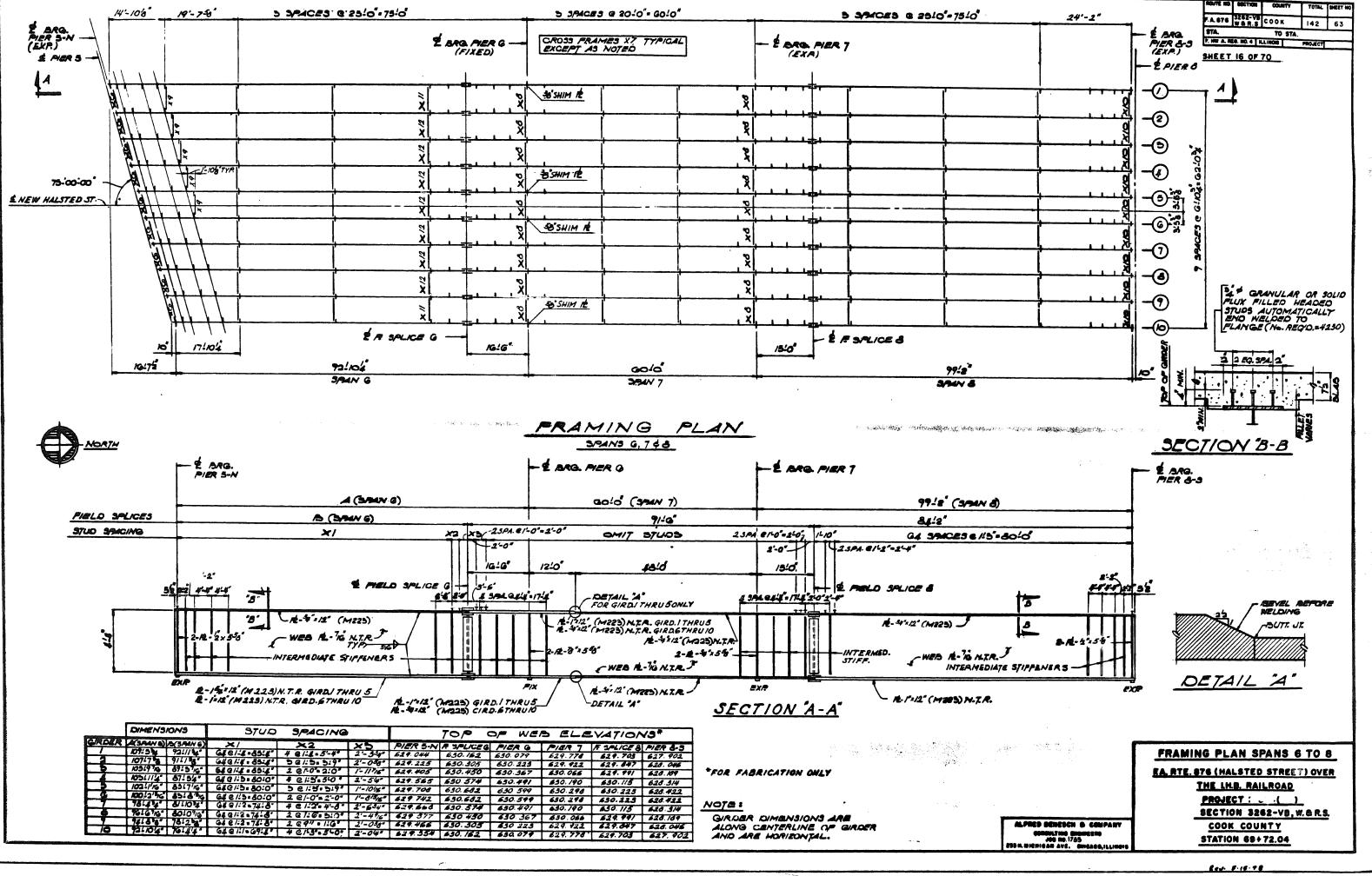
Bearings at Pier 8, Span 9: Rocker bearings are moving independent of the top and bottom bearing plates. included please see movement measurements for beams 1 through 5. Cribbing has been installed near the bearings between the concrete cap and diaphragms near beams 1, 2, 3, 8 and 10 at Pier 8, span 9 side. a special feature at 3 months interval has been started to verify that cribbing is staying in place.



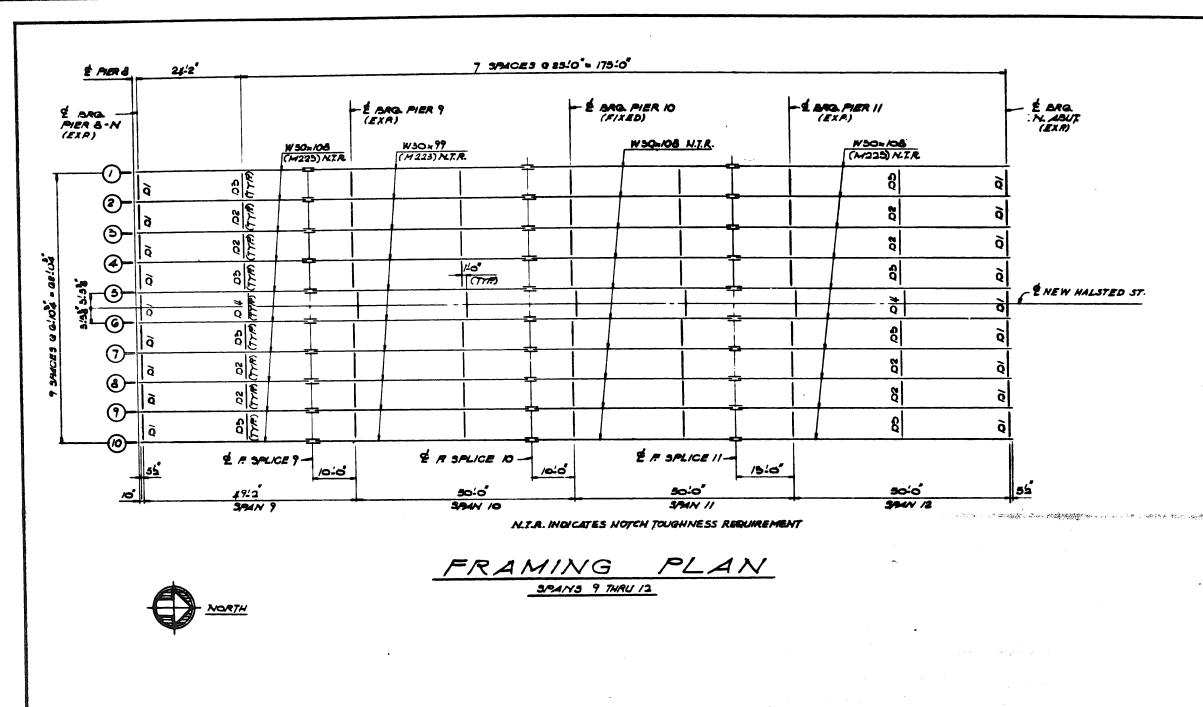
- É ARG.		- É'ARD MER I	,	- 2 AND AVER	E ARE PIEL			
S. ABUT. (EXR)		(FIXE D)			~\		1	L BRG PIER 5- (EXP.)
5 3PACES & 19:0's	5740"	25-0	24.5	842 (EXP) 21-0 3A	× 5	SPACES C 1746-5940	25!0	24
CING 1-0" 62 374CE3 8 9"- 19:6 FOR BEAMS / THRU 10	i*		W30-99	W30x 99		AND 5 SHALL BE DA UNLESS OTHERWISE SHOWN OR NOT	s \	W30 = 102
			(M225)MIR.	(M225) NJ				(M223)
					$\frac{1}{1}$	<u>- \ </u>	<u>\</u>	<u>↓ </u>
			RODS Q			$\overline{7}$ $\overline{7}$ $\overline{7}$	<u>N</u>	Ύ
				à		1-105 (TYP)	<u> </u>	
10 00	90°-00-00"		Q (MrT) Q	à	75:00:00"	$I \wedge \Lambda$	N N	75
			* .				A	
					<u> </u>			1 7
		=======================================	HOLDDOWN	à	<u>\</u>			<u> </u>
	<u> </u>			7 Torunada				+
								<u> </u>
<u>3</u>				0 	<u> </u>		W30x//G	
55	(M225)MFR.	<u>₩'-6"</u> 5 €. #	SPL/CE 2 9	(M225) N.T.R. 25!0	2/463	1240" ERSPLICE	4 (M223) MTR.	15:0"
5740"	-		4915" 384N 2	1:6"	10107 374N 5	59	10" IN #	
SRAN I				NOTE: N.T.R. IN REQUIRE	DICATES NOTCH T	OUGHESS		
			FR,	AMING		1N_	-	
			<u>_FR</u> ,	AMING		<u>1N</u>	• •	
THE REAL PROPERTY.			<u>FR</u> ,		2014U S 2414 CA Autor 1	ANULAR OR SOLID ILLED HEADED STUDS ATTALLY END MELDED	- -	
NORTH 1			FR		2014U S 2414 CA Autor 1	ANULAR OR SOLID FILLED HEADED STUDS ATCALLY END WELDED INGE (No. REQ'D='/590)-		
	BEAM E	LEVA			2014U S 2414 CA Autor 1	ANULAR OR SOLID ILLED HEADED STUDS ATTALLY END MELDED		
TOP OF S. ABUT. PIERI F. SPLICE2 P.	VIER 2-5 PIER 2-W	PIER & F. SPL/0	<u>710N3</u> * CE 4 P/ER 4 F 5PC	314N3 /	AND	ANULAR OR SOLID ILLED HEADED STUDS ATCALLY END WELDED NGE (No. REQ'D=1/590)- 22 EQ.592	A 12 - 2 - 2	
TOP OF 1807. PIERI F. SPLICE2 P. 19.032 521.942 522 682 14 19.176 522 066 622.025 14	NER 2-5 PIER 3-N 1 624.453 624.512 4 624.597 624.655 4	PIER 5 F. SPL 10 625.721 626.2 625.735 626.4	TIONS * CE 4 P/ER 4 F SPE 205 627.721 628 4/9 627.922 628	374N3 / 1025 7/ER 55 3 205 629.003 4 402 629.264 4	2004 U S A 4 CA A 40 A A 40 A	ANULAR OR SOLID FILLED HEADED STUDS ATCALLY END WELDED INGE (No. REQ'D='/590)-		
TOP OF 3. ABUT: PIERI F. SPLICE2 P 619.032 621.942 622.642 6 619.176 622.036 622.626 6 619.444 622.354 623.094 6	NER 2-5 PIER 2-W 1 624.455 624.512 4 624.597 624.655 1 624.740 624.799 1 624.665 624.924 1	PIER 5 7.32LIC 625.721 626.2 625.735 626.4 626.150 626.4 626.345 626.2	TIONS * CE 4 P/ER 4 P. SPC 205 627.721 628 419 627.922 628 632 628.119 628 632 628 296 628	374N3 / 1/CE5 P/ER 55 3 205 629.003 4 4/02 629.264 4 544 629.445 4 766 629.606 4	14 14 14 14 14 14 14 14 15 14 14 15 14 15 15 15 15 15 15 15 15 15 15	ANULAR OR SOLID ILLED HEADED STUDS ATCALLY END WELDED NGE (No. REQ'D=1/590)- 22 EQ.592	A 12 - 2 - 2	
TOP OF S. ABUT. PIERI F. SPLICE2 PI 619.032 621.942 622.622 6 619.320 622.330 622.969 6 619.320 622.354 623.094 6 619.552 622.462 623.02 6 619.552 622.452 623.02 6	NER 2-5 PIER 2-N 624.455 624.5/2 624.597 624.655 624.740 624.799 624.865 624.799 624.975 625.032 624.975 625.032	PIER 5 5 625.721 626.26 625.735 626.46 626.150 626.46 626.345 626.26 626.521 627.0 626.591 627.0	TIONS * CE 4 PIER 4 P SP4 205 627.721 628 419 627.922 628 632 628.119 628 632 628 296 628 201 628 456 628. 206 628 508 628	374N3 / 1 1025 PIER 55 3 205 629.063 4 402 629.264 4 594 629.445 4 766 629.749 4 766 629.749 4 766 629.764 3	2009 L S 44 44 14 14 14 14 14 14 10 17 14 14 14 10 14 14 10 14 10 14 10 14 10 14 10 14 16 16 16 16 16 16 16 16 16 16	ANULAR OR SOLID ALLED HEADED STUDS ATCALLY END WELDED NGE (No. REQ'D= 1590)- 22 EQ.SP	27 4 B	
TOP OF S. ABUT: PIERI F. SPLICE2 P. 619.032 621.942 622.625 6 619.320 622.230 622.969 1 619.351 622.452 623.094 6 619.352 622.462 623.094 4 619.352 622.462 623.094 4 619.352 622.462 623.024 4 619.352 622.462 623.024 4 619.352 622.462 623.024 4 619.352 622.462 623.024 4 619.352 622.462 623.024 4 619.352 622.462 623.024 4 619.352 622.462 623.024 4 619.320 622.250 622.767 4	VER 2-5 PIER 2-N 1 624 455 624 512 A 624 597 624 655 624 740 624 799 6 624 865 624 924 6 624 975 625 032 6 624 975 625 032 6 624 975 625 032 6 624 975 625 032 6 624 974 625 624 924 6 624 740 624 799 1	PIER 5 5 625.721 626.25 625.735 626.4 626.150 626.4 626.345 526.6 626.521 627.0 626.591 627.0 626.551 627.4 626.444 626.4	TIONS CE 4 PIER 4 F SP4 205 627.72/ 626 419 627.922 626 632 626.296 626 631 628.296 626 601 628.456 626 602 526.455 626 603 626.456 626 604 626.457 626 766 626.376 626	374N3 / 1025 PIER 5-S 3 205 629.063 4 402 629.264 4 544 629.445 4 766 629.445 4 766 629.749 4 906 629.711 3 826 629.620 5	2004 (J S 44 6 6 7 7 7 8 9 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1	ANULAR OR SOLID ALLED HEADED STUDS ATCALLY END WELDED NGE (No. REQ'D= 1590)- 22 EQ.SP	A 12 - 2 - 2	•
TOP OF S. ABUT. PIERI F. SPLICE2 PI 6/9.032 621.942 622.622 6 6/9.032 622.966 622.026 6 6/9.032 622.230 622.026 6 6/9.551 622.354 623.094 6 6/9.552 622.462 623.202 6 6/9.552 622.462 623.004 6 6/9.552 622.462 623.002 6 6/9.552 622.462 623.004 6 6/9.552 622.230 622.769 6 6/9.444 612.354 625.004 4 6/9.444 612.230 622.769 4 6/9.444 612.036 622.026 6 6/9.444 612.354 623.024 6 6/9.420 622.046 6 6 6	VER 2-5 PIER 2-N 1 624 453 624 512 A 624 597 624 655 A 624 740 624 799 A 624 755 625 032 A 624 975 625 032 A 624 975 625 032 A 624 975 625 032 A 624 975 625 624 924 A 524 740 624 799 A	PIER 5 5 625.721 626.25 625.735 626.4 626.150 626.4 626.345 626.2 626.521 627.0 626.591 627.0 626.551 627.0	TIONS CE 4 P/ER 4 R 5PL 205 627.721 628 419 627.912 628 631 628.119 628 632 628.296 628 606 628.506 628 763 628.376 628 890 628.263 628	3R4N3 / 1025 P/ER 5-5 3 205 629.063 4 402 629.264 4 544 629.445 4 766 629.749 4 921 629.749 4 164 629.749 4 166 629.749 4 166 629.711 3 926 629.711 3 926 629.309 3	2017 10 217 1	ANULAR OR SOLID ALLED HEADED STUDS ATCALLY END WELDED NGE (No. REQ'D= 1590)- 22 EQ.SP		•
TOP OF S. ABUT: PIERI F. SPLICE2 PI 6/9.032 621.442 622.622 6 6/9.032 622.442 622.626 6 6/9.032 622.442 622.026 6 6/9.52 622.462 623.094 6 6/9.552 622.462 623.002 6 6/9.552 622.462 623.002 6 6/9.552 622.462 623.004 6 6/9.552 622.250 622.769 6 6/9.444 622.250 622.769 6 6/9.444 622.250 622.769 6 6/9.444 622.250 622.769 6 6/9.444 622.056 622.769 6 6/9.444 622.056 622.769 6 6/9.420 622.066 632.026 6	VER 2-5 PIER 2-N 1 624 453 624 512 A 624 597 624 655 A 624 740 624 799 A 624 755 625 032 A 624 975 625 032 A 624 975 625 032 A 624 975 625 032 A 624 975 625 624 924 A 524 740 624 799 A	PIER 3 7.39410 625.721 626.26 625.735 626.4 626.150 626.4 626.345 626.6 626.591 627.0 626.591 627.0 626.444 626.44 626.591 627.0 626.494 626.44 626.494 626.44 626.494 626.44	TIONS CE 4 P/ER 4 R 5PL 205 627.721 628 419 627.912 628 631 628.119 628 632 628.296 628 606 628.506 628 763 628.376 628 890 628.263 628	3R4N3 / 1025 P/ER 5-5 3 205 629.063 4 402 629.264 4 544 629.445 4 766 629.749 4 921 629.749 4 164 629.749 4 166 629.749 4 166 629.711 3 926 629.711 3 926 629.309 3	244 J 244 J 247 J 247 J 247 J 247 J 247 J 247 J 240 J 24	ANULAR OR SOLID SULED HEADED STUDS ATCALLY END WELDED INGE (No. REQ'D=7590)- 22 EQ.590 10 10 10 10 10 10 10 10 10 1		
TOP OF S. ABUT: PIERI F. SPLICE2 PI 6/9.032 621.942 622.682 6 6/9.032 621.942 622.682 6 6/9.032 622.942 622.026 6 6/9.032 622.946 623.094 6 6/9.320 622.462 623.094 6 6/9.551 622.462 623.002 6 6/9.552 622.462 625.002 6 6/9.552 622.230 623.002 6 6/9.552 622.2462 625.094 6 6/9.552 622.462 625.004 6 6/9.552 622.054 625.02 6 6/9.552 622.066 532.02 6 6/9.520 622.046 623.02 6 6/9.532 622.046 623.02 6 6/9.032 621.942 622.642 1	VER 2-5 PIER 2-N / 624 453 624 5/2 A 624 597 624 655 A 624 740 624 799 A 624 865 624 924 A 624 975 625 032 A 624 975 625 032 A 624 975 625 032 A 624 975 624 789 A 624 597 624 655 A 624 597 624	PIER 3 7.39410 625.721 626.26 625.735 626.4 626.150 626.4 626.345 626.6 626.591 627.0 626.591 627.0 626.444 626.44 626.591 627.0 626.494 626.44 626.494 626.44 626.494 626.44	TIONS CE 4 P/ER 4 R 5PL 205 627.721 628 419 627.912 628 631 628.119 628 632 628.296 628 606 628.506 628 763 628.376 628 890 628.263 628	3R4N3 / 1025 P/ER 5-5 3 205 629.063 4 402 629.264 4 544 629.445 4 766 629.749 4 921 629.749 4 164 629.749 4 166 629.749 4 166 629.711 3 926 629.711 3 926 629.309 3	244 J 244 J 247 J 247 J 247 J 247 J 247 J 247 J 240 J 24	ANULAR OR SOLID SULED HEADED STUDS ATCALLY END WELDED INGE (No. REQ'D=7590)- 22 EQ.590 10 10 10 10 10 10 10 10 10 1		

٢.





•



•

TOP OF BEAM ELEVATIONS*

GIRDER	PIER &-N	A SPLICE 9	191 ER 9	F SPLICE 10	PIER IO	IP. SPLICE II	PIER II	N. ABUT.
1410	627.927	626 596	626.190	624.564	624 083	622.303	621.679	619.279
219	628 071	626739	626.333	624.707	624.226	622.447	621.823	619.423
540	628.2/4	626.083	626.477	624 851	624.370	£22.590	621.966	619.566
\$ 47	628 339	627.008	626 601	624.975	624 495	622 715	622.091	619.691
596	628 447	627.115	626 709	625 083	624 603	622.823	622.199	619.799

* FOR FABRICATION ONLY

NOTE:

SEE FRANING PLAN SPANS ITOS

4.PRED BENESCH & COMPANY CONTURTING ENGINEETIG JOS NO.1786	COOK COUNTY
	THE LH.B. RAILROAD PROJECT 7 BIL() SECTION 3262-VB,W.& R.S.
	FRAMING PLAN SPANS 9 TO 12 EA. RTE. 576 (HALSTED STREET) OVER
	•
	· ·
•	
•	
er - Heltstattinger († 1944) 1964 - Heltstatter († 1944)	an suiter taitain an

A. 876 3262-VB

Ma A 480 100 A

SHEET IT OF TO

COOK

LINGONS T

TO STA

142

64

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	of Tran							-														93 (Co35 =	Ful	STIF	= = EMX	0-4	-26"	x 11:	25 =	4.78
Section Se	spo			Avei	AG	EI	0	. 31	195				1	VER	ALE-	0.4	+26														
$E = 2 PL _{2}^{W} \times 5^{5/8} $ Combined by the section of the	artin			1	D	11	0.	27	19				H	11	0-34	13												1			
$E = 2 PL _{2}^{H} \times 5^{5/8} $ Combined by the section of the	ion			4	2	•	0.	2	//				9	1	- 0.2	393													5:	9.5	5811
$ \begin{array}{c} Cloophing P P P P P P P P$			60																					St	ffener	- 0.	5 x	11.2	5 = 6	5.62	5 m2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Count	struct	EA		B	2	0.	41	1				F	5	0.	458								We	.b =	0.4	37	×9	1 = 5	.933	5 in ²
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		ure N			A	11	0	.43	37				E	5	0.4	58									E,	1/)	CER	Tinol	20-		
Computed by Computed by Checked b		<u>.</u>	3			-															9"	11									
Computed by Computed by Checked b	10	0/6	98							CLe	OKIN	VG	No	eth)																
		1	S							<u></u>										AB	C	D									
		52											100	ì		7	E-	- 311-		A B		Î		11							
	ecked		-					Æ		FX			C	5	H						1 TI										
	>											+																			
	Tan	NHO	ADEL																		5	-2	PL 1/	2"x 8	5 5 /8						
$e_{1}e_{2}e_{3}e_{4}e_{4}e_{5}e_{4}e_{5}e_{4}e_{5}e_{4}e_{5}e_{4}e_{5}e_{4}e_{5}e_{4}e_{5}e_{4}e_{5}e_{4}e_{5}e_{5}e_{5}e_{5}e_{5}e_{5}e_{5}e_{5$	and and	7, 202	Ele, PA														a province of the second se		•				Plan	Web	Tn	= 0	. 43	375'	(

BEAM 9- E FACE-PIER 8S

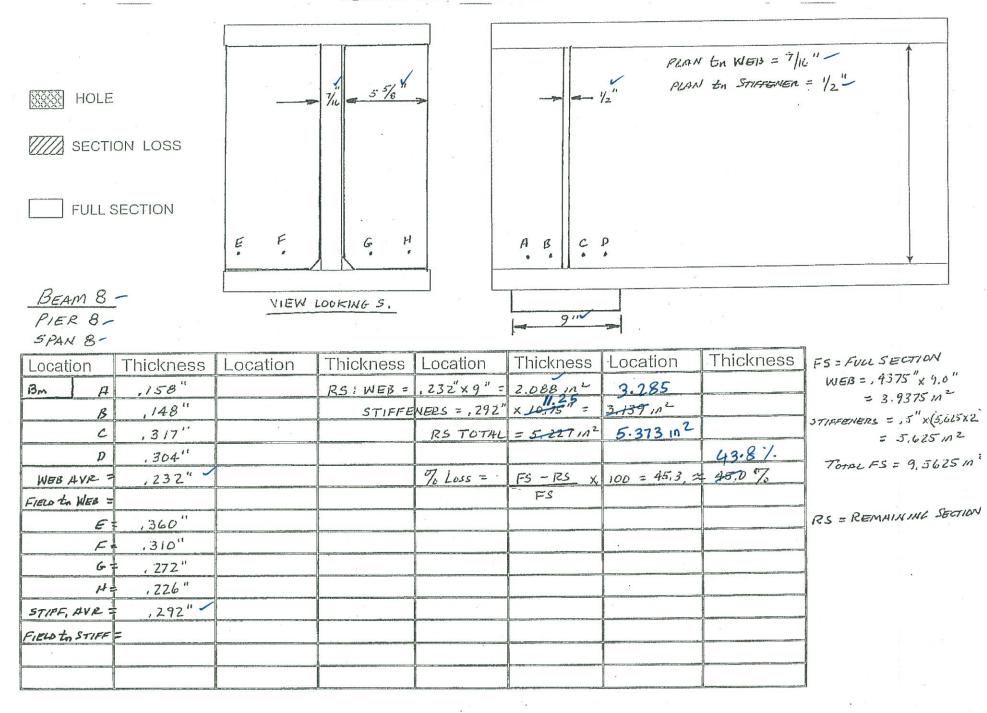


BEAM 9- W FACE- PIER 8S



SECTION LOSS CALCULATIONS

MEASURED BY: M.1. 2-11-20





P8; Beam 8; Span 8 Side - Picture 1: West face looking NE



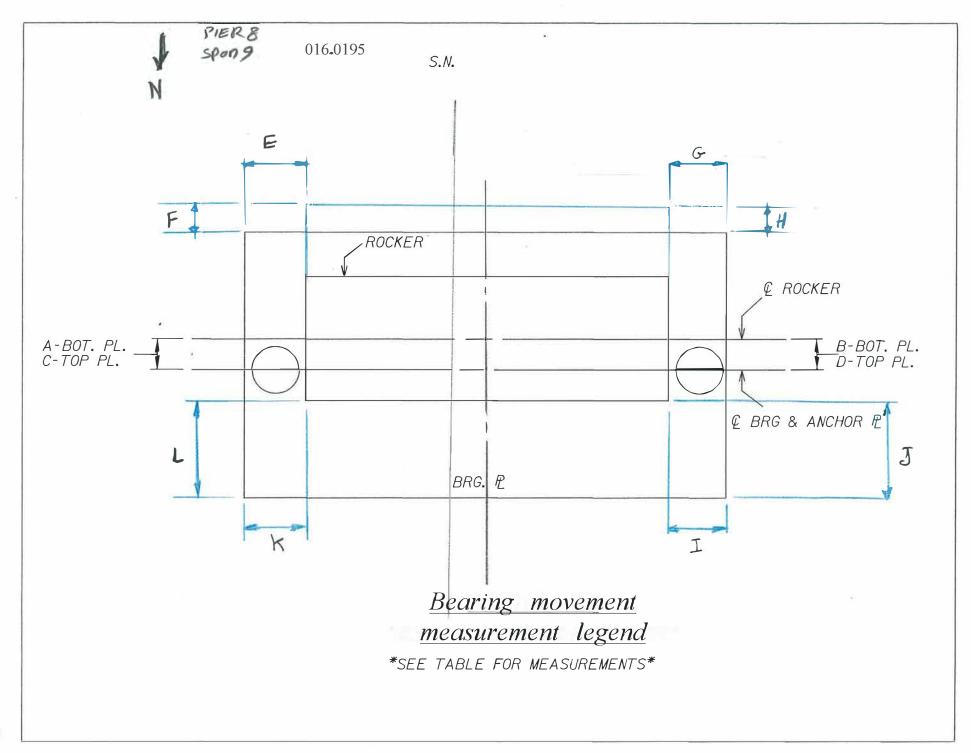
P8; Beam 8; Span 8 side - Picture 2: West face Looking SE



P8; Beam 8; Span 8 side - Picture 3: East face looking NW



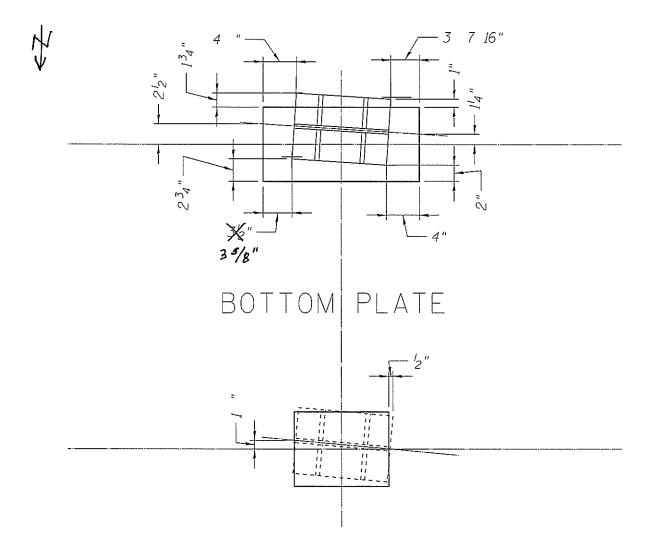
P8; Beam 8; Span 8 side - Picture 4: East face looking SW



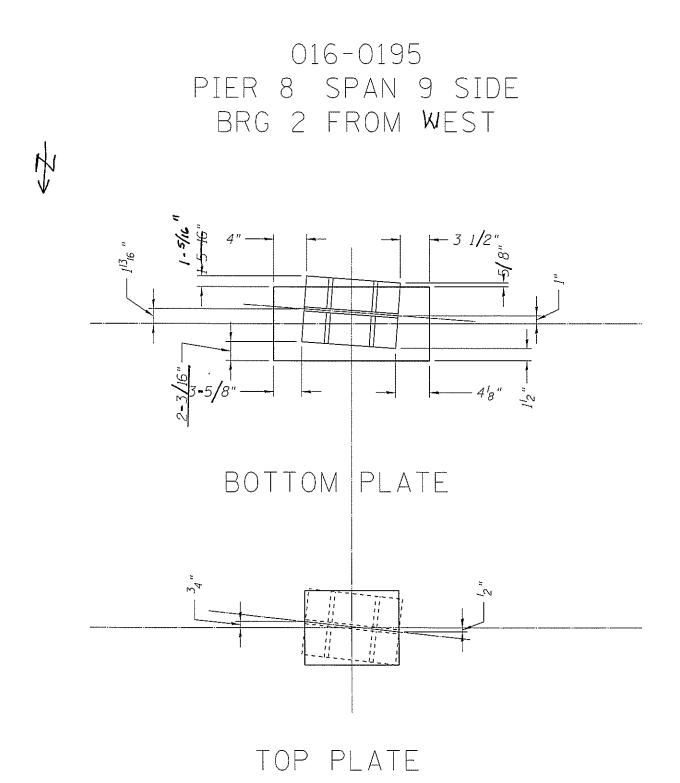
SPAN	PIER	BRG #		BOTTOM PLATE										
SPAN	PIEN	DNG #	Α	В	E	F	G	Н	I	J	К	L	С	D
9	8	1	2.25"	1 1/2"	4"	1.75"	3 7/16"	1"	4"	2"	3.625"	2.75"	1"	-
9	8	2	1 13/16"	1"	4"	1 5/16"	3.5"	0.625"	1.125"	1.5"	3.625"	2 3/16"	0.75"	0.5"
9	8	3	1.75"	0.875"	4.125"	1.25"	3.375"	0.375"	4"	1.5"	3.5"	2.875"	1.375"	1.125"
9	8	4	0.75"	0.125"	4"	0.625"	3.5"	0.25"	3 13/16"	1.25"	3.75"	1.5"	0.375"	0.5"
9	8	5	0.75"	0.75"	3.5"	0.375"	4"	0.625"	3.75"	1.5"	3.875"	1.375"	0.5"	0.625"

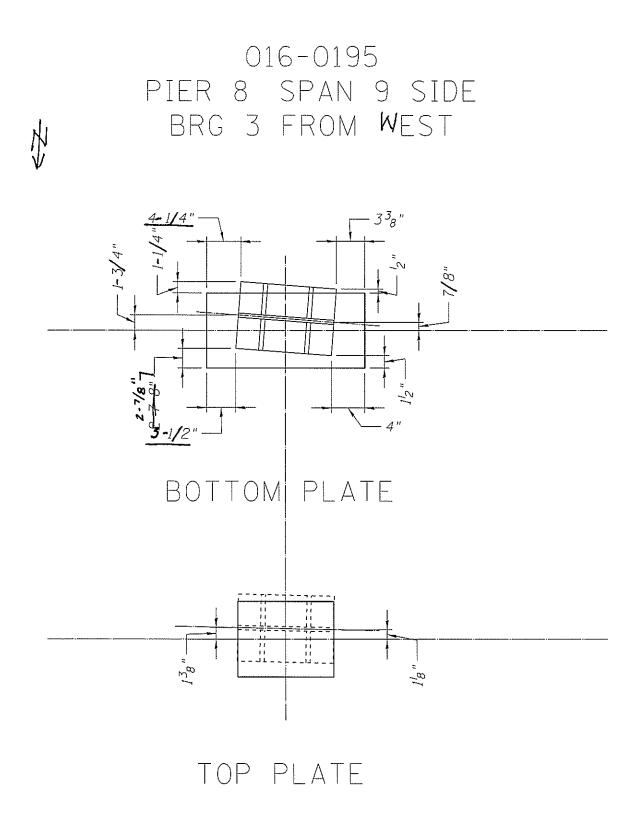
016-0195 bearings numbered west to east

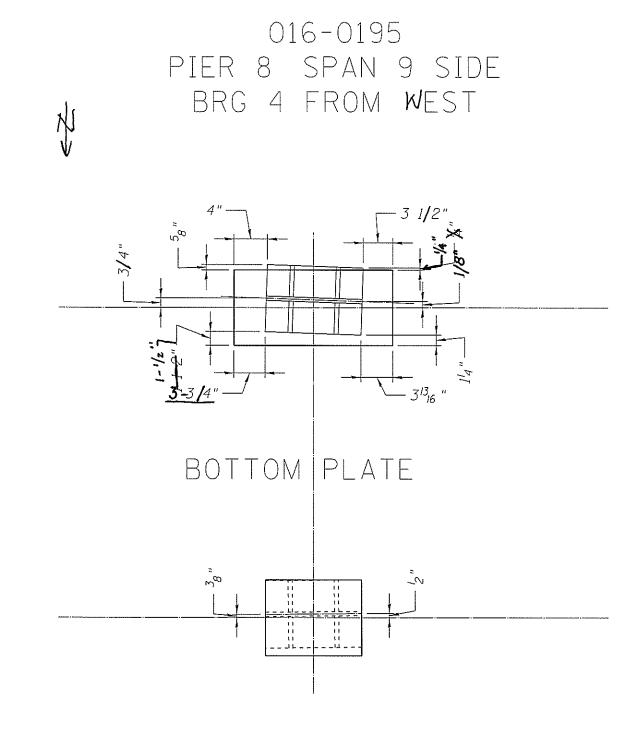




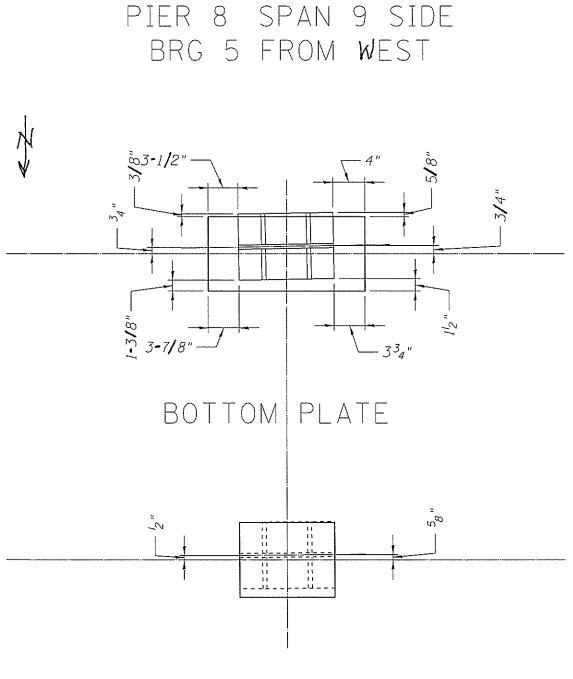
TOP PLATE







TOP PLATE



TOP PLATE



Picture 1: P8; Span 9; Beam 1 Looking W.



Picture 2: P8; Span 9; Beam 2 end



Picture 3: P8; Span 9; Beam 2 end west face.



Picture 4: P8; Span 9; Beam 4 end east face



Picture 5: P8; Span 9; Beam 3 bearing; looking west



Picture 6: P8, span 9; bearing 1; looking E



Picture 7: P8; Span 9; Looking E



Picture 8: P8; Span 9; Bearing 2; Looking W



Picture 9: P8; Span 9; Bearing 3; Looking W



Picture 10: P8; Span 9; Bearing 4; Looking W



Picture 11: P8; Span 9; Bearing 5; Looking W



Picture 12: P8; Span 9; Bearing 6; Looking W



Picture 13: P8; Span 9; Bearing 7; Looking W



Picture 14: P8; Span 9; Bearing 8; Looking S



Picture 15: P8; Span 9; Bearing 8; Looking W



Picture 16: P8; Span 9; Bearing 9; Looking W



Picture 17: P8; Span 9; Bearing 10; Looking E



Picture 18: Pier 8; North Face; Looking SE



Picture 19: Pier 8; North Face; Looking SW



Picture 20: Pier 8 West End; North Face; Looking S



Picture 21: Pier 8 East End; North Face; Looking S



3

LOAD RATING INSPECTION REPORT

3

Date: 10/22/2015

3

Structure Nu	mber: <u>01</u>	6-0195	District:	1		Date: _	10/22/15			
Carried/Cros	sed: <u>IL</u>	1 over IHB RR		Propose	ed Year of Imp	of Improvement:				
Inspection Da	ate: <u>1(</u>	0/21/15	Inspector(s):	B.Vegrzyn-V	B.Vegrzyn-V3 Reviewed by:					
	Initial	NBIS Ratings		F	IS					
58 5		60	62	58	59	60	62			

5

Remarks: The expansion joints are in very poor condition. The east and west columns of Pier 8 are in very poor condition.

Forwarded to: W.Beisner-IDOT BBS

5

Additional Comments:

6

and a second sec

and a second

Valentine, Michael A

From:	Bill Vegrzyn <bvegrzyn@v3co.com></bvegrzyn@v3co.com>
Sent:	Friday, October 11, 2019 12:46 PM
To:	Valentine, Michael A
Subject:	[External] RE: Section loss calcs

Hi Mike,

Things are going well, hopefully your shoulder is better. The top detail has 18% loss, the middle detail has 53% loss and the bottom detail has 10% loss. If you need anything else please let me know.

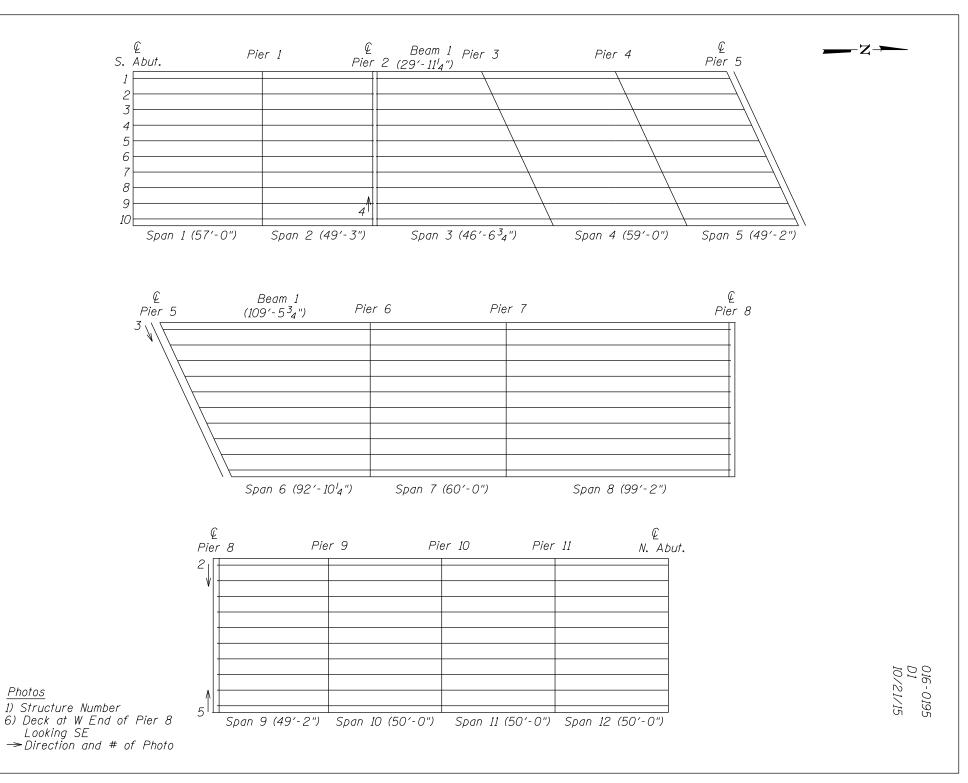
From: Valentine, Michael A [mailto:Michael.Valentine@illinois.gov] Sent: Friday, October 11, 2019 12:06 PM To: Bill Vegrzyn Subject: Section loss calcs

Good afternoon Bill,

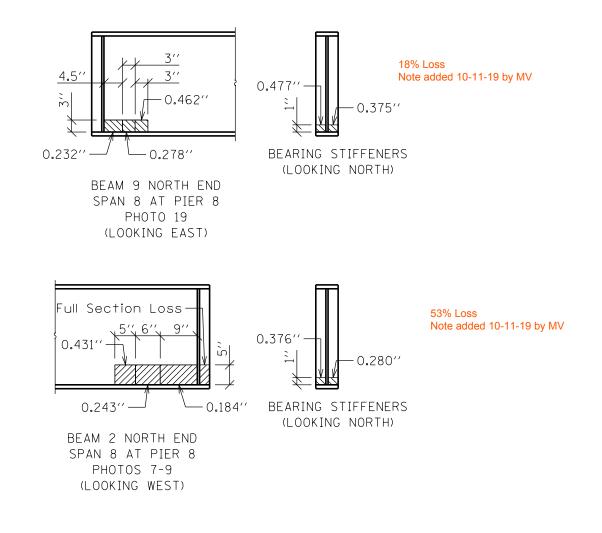
It's been a long time since I talked to you. How's everything? Hope all is well. The reason I am emailing you is in regards to your 2015 LR inspection report for 016-0195 IL. 1 (Halsted St.) over the IHB_RR. If you look at the LRI report I attached, there were never any section loss percentages noted. If by chance you still have your calculations, would it be possible to email them to me at your earliest convenience? Your help here would be greatly appreciated. Thanks and have a great day.

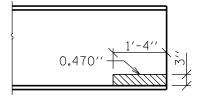
Michael Valentine S. Area Senior Bridge Inspection Technician IDOT D1 Bridge Office Cell #: 847-651-0096 Office #: 847-956-1494 Email: Michael.Valentine@Illinois.gov

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.



016 - 0195 D1 10/21/15





BEAM 9 NORTH END SPAN 2 AT PIER 2 PHOTO 17 (LOOKING WEST)

10% Loss Note added 10-11-19 by MV

