

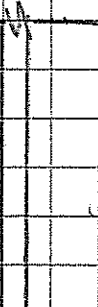


Illinois Department of Transportation

Route _____ Sheet _____ of _____
 Section _____ Computed by _____ Date _____
 County _____ Checked by _____ Date _____
 Structure No. 016-0914 154# SPAN 3

10/11/16
 M. SM

LOOKING EAST



NOTES:

BOOK ^{LEVEN} _{FLANGE} $t_n = .76$ ($\frac{3}{4}$ ")

- ALL BEAMS ARE W30 X 108

Bms #ed S-N

A B C D E F
 1 1 1 1 1 1

W (FIELD)

Beam: W30 X 108 = 10.475' (10 1/2")

30W# / 30 =

DISTANCE
 TO
 PS BRG WEB

SPAN #	Bm	FIELD t_n	A	B	C	D	E	F	W	DISTANCE TO PS BRG WEB	PHOTOS
3	3	.76	.62	.69	.75	.67	.62	.66		19'	1
3	6	N/A	.62	.69	.73	.68	.65	.62	10.5	27'	2,3
				.665							

% LOSS

$$\text{FULL SECTION (FS)} = 10.5" \times .76" = 7.98 \text{ in}^2$$

Bm 3

$$\text{REMAINING SECTION (RS)} = 10.5" \times .665" = 7.01 \text{ in}^2$$

$$\% = \frac{7.98 \text{ in}^2 - 7.01 \text{ in}^2}{7.98 \text{ in}^2} \times 100$$

$$= 12.17 \approx 12.2\%$$

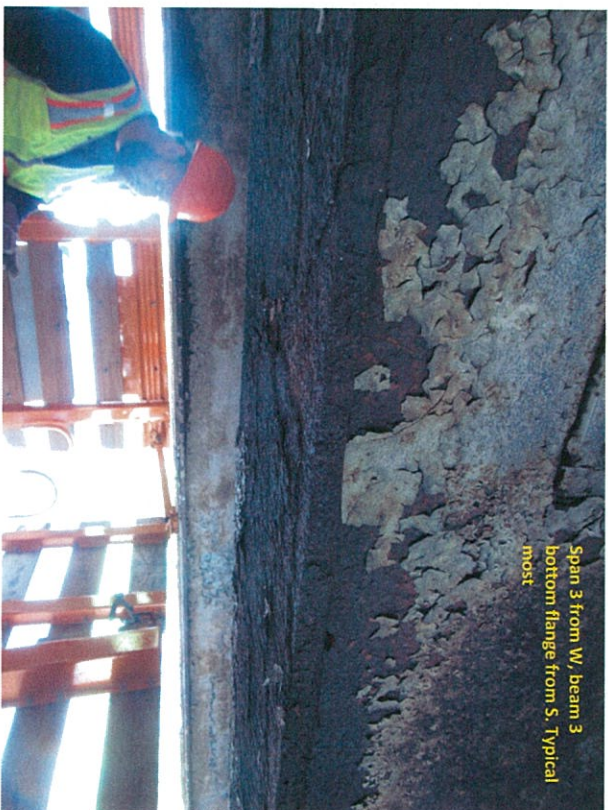
Bm 6

$$\text{RS} = 10.5" \times .665" = 6.98 \text{ in}^2$$

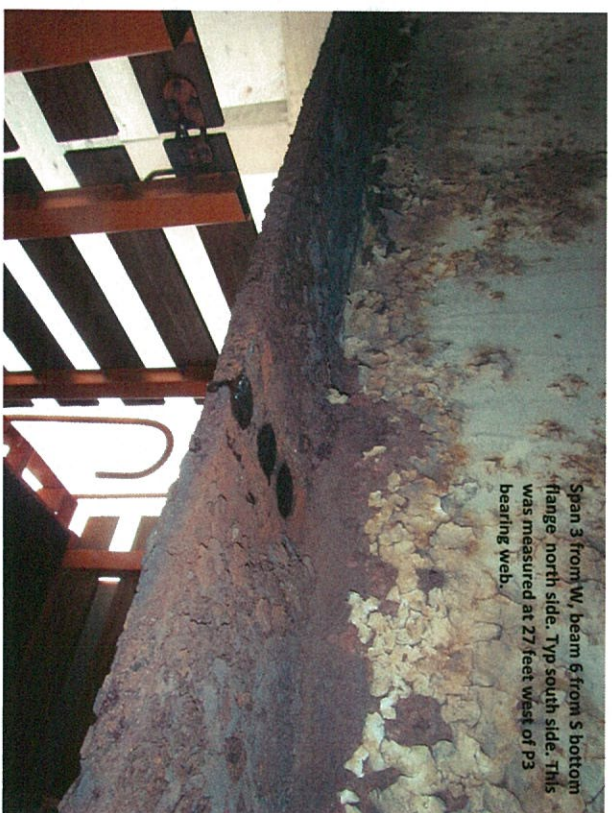
$$\% = \frac{7.98 \text{ in}^2 - 6.98 \text{ in}^2}{7.98 \text{ in}^2} \times 100$$

$$= 12.53 \approx 12.5\%$$

154th over I-94
SN:016-0914



Span 3 from W, beam 3
bottom flange from S. Typical
most



Span 3 from W, beam 6 from S bottom
flange, north side. Typ south side. This
was measured at 27 feet west of P3
bearing web.



Another view of bm 6 in span 3 looking E on
north side. Typ on south side

Bearing web



Illinois Department of Transportation

Route _____ Sheet _____ of _____
 Section _____ Computed by _____ Date _____
 County _____ Checked by _____ Date _____
 Structure No. 016-1068 MICHIGAN CITY SPAN 3 10/11/16
 #1, SM

LOOKING EAST

W

NOTES:

- BMS 1-11 ARE W33 X 130
- BMS 2-9 ARE 33 WF X 130

BOOK to FLANGE

.855 (7/8)

- BMS #ed N-S

A B C D E F

W (FIELD)

BOOK to FOR BOTH 11.5"

DISTANCE TO P3 BRG-WEB

SPAN #	Bm	FIELD to	A	B	C	D	E	F	W	DISTANCE TO P3 BRG-WEB	PHOTOS
3	6	N/A	.64	.71	.77	.78	.73	.64	11.5'	29'	4,5

% LOSS

$$\text{FULL SECTION (FS)} = 11.5' \times .855' = 9.833 \text{ m}^2$$

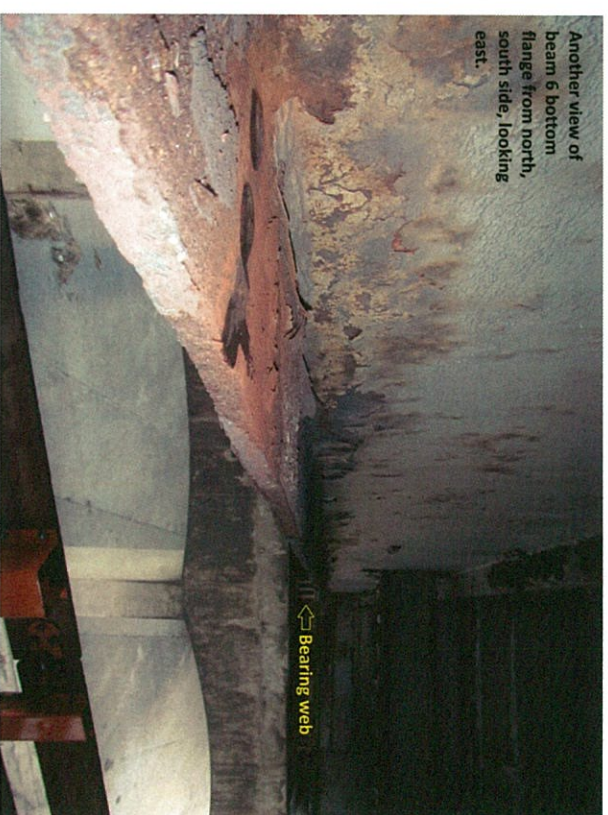
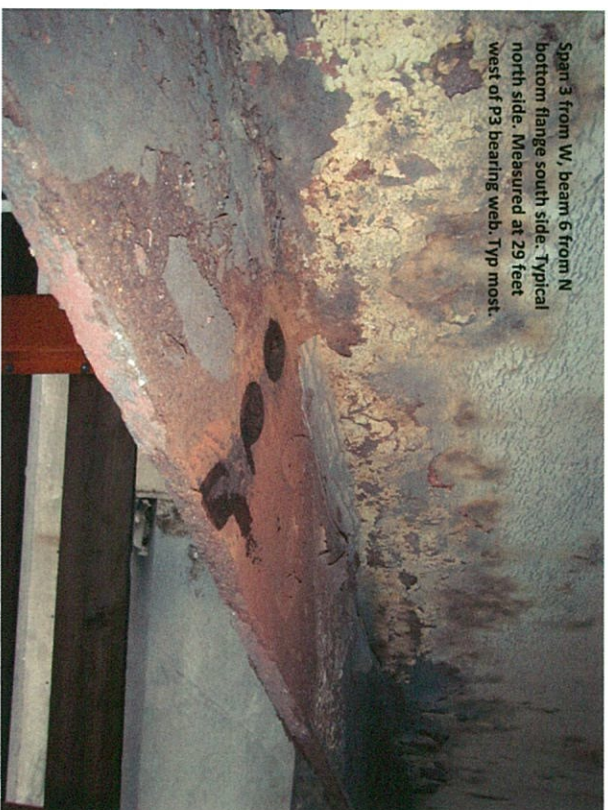
Bm 6

$$\text{REMAINING SECTION} = 11.5' \times .712' = 8.188 \text{ m}^2$$

$$\% = \frac{9.833 \text{ m}^2 - 8.188 \text{ m}^2}{9.833 \text{ m}^2} \times 100$$

$$= 16.73 \approx 16.7\%$$

Michigan City Rd. over I-94
SN:016-1068





Illinois Department of Transportation

Route _____ Sheet _____ of _____
 Section _____ Computed by _____ Date _____
 County _____ Checked by _____ Date _____
 Structure No. 016-0956 1L.83 SPAN 3 10/11/16

M.V. SM

LOOKING EAST

W

NOTES:

ALL Bms ARE W30 X 108

BOOK TO LOWER FLANGE

.76 (3/4")

Bms #ed N-S

A B C D E F

W (FIELD)

BOOK: W30 X 108 10.475 (74.5")

DISTANCE TO P3 BRG WEB

SPAN #	Bm	FIELD TO	A	B	C	D	E	F	W	PHOTOS
3	11	NA	.71	.72	.73	.68	.68	.67	29'	
3	6	NA	.66	.67	.68	.71	.71	.72	30'	6, 7

% LOSS

$$FS = 10.5" \times .76" = 7.98 \text{ in}^2$$

Bm 11

$$RS = 10.5" \times .698" = 7.329 \text{ in}^2$$

$$\% = \frac{7.98 \text{ in}^2 - 7.329 \text{ in}^2}{7.98 \text{ in}^2} \times 100$$

$$= 8.16 \approx 8.2\%$$

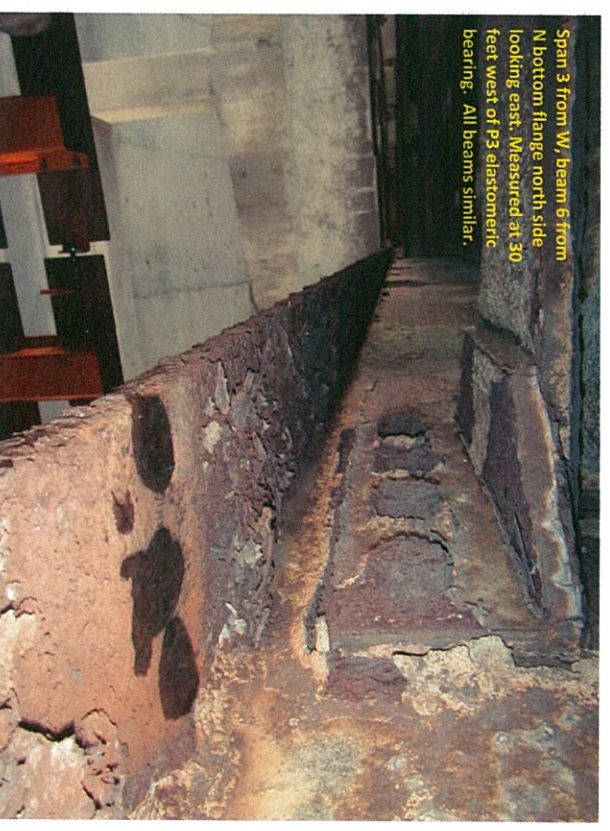
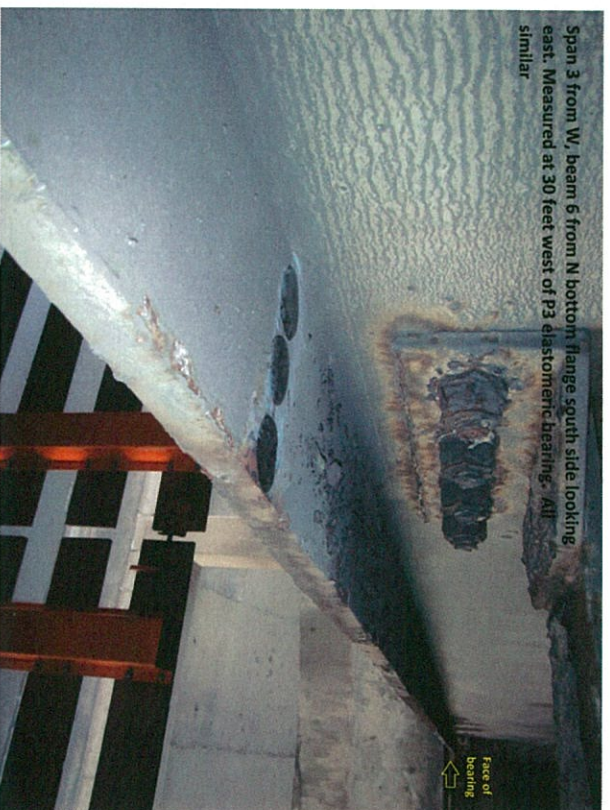
Bm 6

$$RS = 10.5" \times .692" = 7.266 \text{ in}^2$$

$$\% = \frac{7.98 \text{ in}^2 - 7.266 \text{ in}^2}{7.98 \text{ in}^2} \times 100$$

$$= 8.95 \approx 9.0\%$$

IL.83 (Sibley Blvd.) over I-94
SN:016-0956





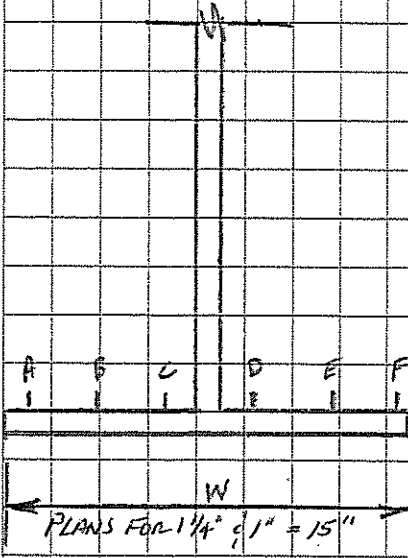
Illinois Department
of Transportation

Route _____ Sheet _____ of _____
 Section _____ Computed by _____ Date _____
 County _____ Checked by _____ Date _____
 Structure No. 016-2600 130# SPAN 2 10/11/16
TH, J, SM

NOTES:

- FROM E. ABT TO SPLICE B/F = 1-1/4" THICK
- FROM SPLICE TO THICKER PORTION TO WEST, B/F = 1" THICK

- Bms #ed N-S



SPAN #	Bm	FIELD	A	B	C	D	E	F	W	DISTANCE TO PIER CAPFACE	PHOTOS
2	9	FORGET	1.21	1.21	1.20	1.23	1.21	1.21	15"	44.75'	8, 9 (W)

% Loss

$$FS = 15" \times 1.25" = 18.75 \text{ in}^2$$

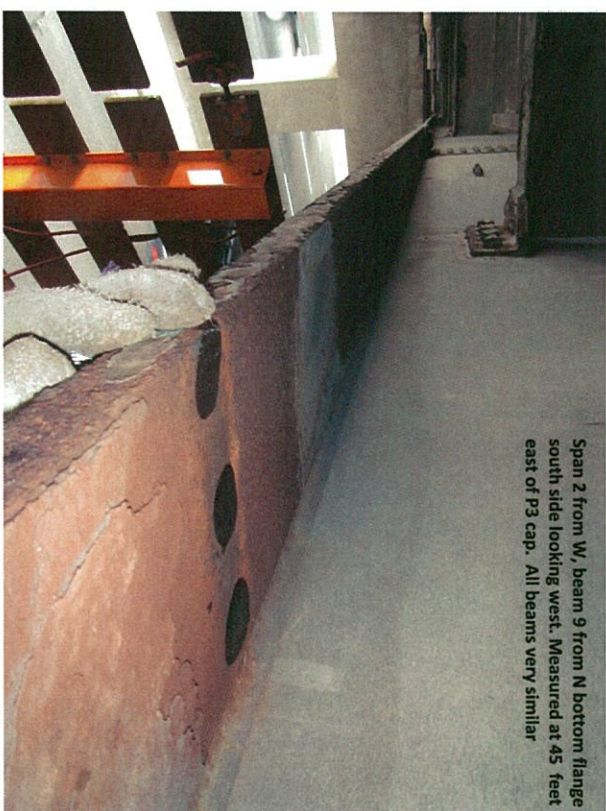
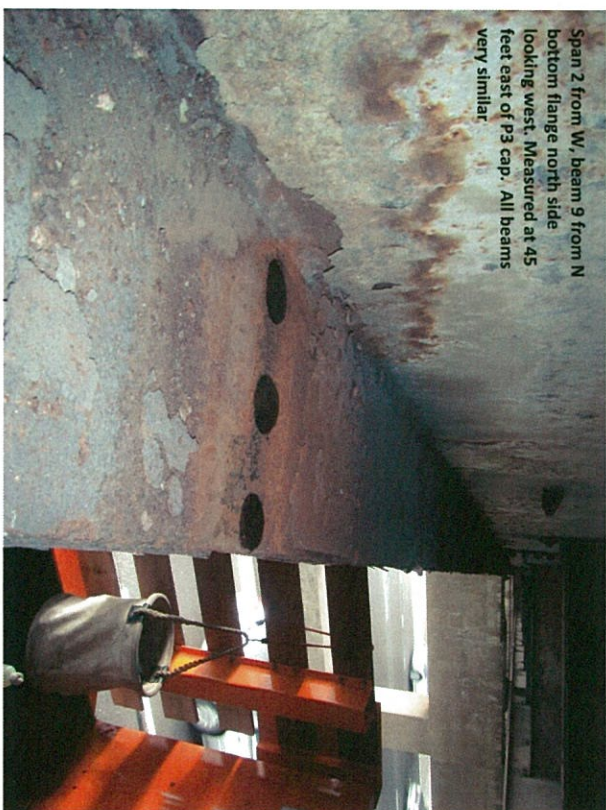
Bm 9

$$RS = 15" \times 1.212" = 18.18 \text{ in}^2$$

$$\% = \frac{18.75 \text{ in}^2 - 18.18 \text{ in}^2}{18.75 \text{ in}^2} \times 100$$

$$= 3.04 \approx 3\%$$

130th Street over I-94
SN:016-2600





Route _____ Sheet _____ of _____
 Section _____ Computed by _____ Date _____
 County _____ Checked by _____ Date _____
 Structure No. 016-2042 115nd EB SPAN 3 10/11/16

Ms. 11.5

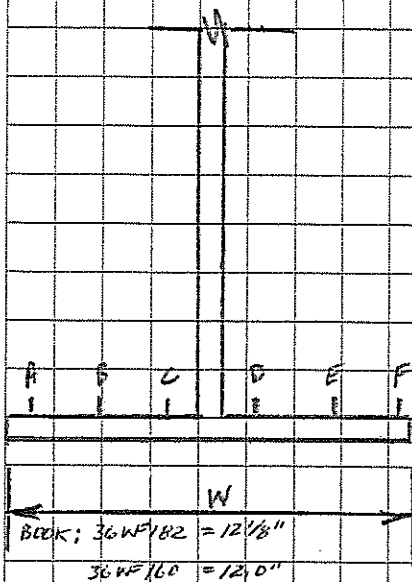
NOTES:

Back to LOWER FLANGE

Bms 1.5 ARE 36WF182 1.18(1-3/4")

- Brns 2-4 ARE 36 WF 160 1.02 (1")

- Bms #ed S-N



~~DISTANCE~~
To

[illegible]

GOOD CONDITION, MAJORITY OF PAINT STILL INTACT & FUNCTIONING WELL

115th EB over I-94
SN:016-2042





Illinois Department of Transportation

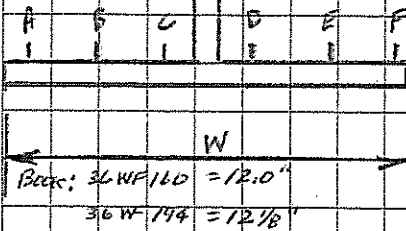
Route _____ Sheet _____ of _____
 Section _____ Computed by _____ Date _____
 County _____ Checked by _____ Date _____
 Structure No. 016-2043 115th WB SPAN 3 10/11/16
MM, SM

NOTES:

- BEAMS 1-4 ARE 36 WF 160 1.02 (1")
- BEAM 5 IS 36 WF 194 1.26 (1-1/4")

- Bms #ed S-N

Back to LOWER FLANGE



DISTANCE TO E, NOT BACK

SPAN #	Bm	FIELD EN	A	B	C	D	E	F	W		PHOTOS
3	3	NA	.90	.90	.88	.85	.90	.88	12"	22	10, 11
3	4	NA	.88	.91	.96	.97	.95	.93	12"	22	12, 13

% Loss

$$FS = 12.0" \times 1.02" = 12.24 \text{ in}^2$$

Bm 3

$$RS = 12.0" \times .885" = 10.62 \text{ in}^2$$

$$\% = \frac{12.24 \text{ in}^2 - 10.62 \text{ in}^2}{12.24 \text{ in}^2} \times 100$$

$$= 13.23 \approx 13.2\%$$

Bm 4

$$RS = 12.0" \times .933" = 11.2 \text{ in}^2$$

$$\% = \frac{12.24 \text{ in}^2 - 11.2 \text{ in}^2}{12.24 \text{ in}^2} \times 100$$

$$= 8.49 \approx 8.5\%$$

115th WB over I-94 SN:016-2043

