F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-028F	COOK	419	334
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62580

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 94	2003-028F	COOK	241	176

FED. ROAD DIV. NO. 5 | ILLINOIS | FED. AID PROJECT X-94-3020-92

SPAN	GIRDER	SOUTH END DATA S	ELEVATION I	SHIM	ANGLE Δ	NORTH END DATA N	ELEVATION Z	SHIM	ANGLE β	GIRDER DIMENSIONS LENGTH C/C BRGS.	A	B	C	Δ (I'S) CONCRETE	Δ (E) CONCRETE	WEB PLATE	FLANGE PLATES 1	2	3	4	5	6	CAMBER	SHEAR CONNECTOR SPACINGS a	b	c	d	INTERIOR WEB STIFFENER SPACINGS e	f	g	GIRDER	REMARKS
21	61-R	7"-11"	31.17	15/16	90°-00'-00"	10-0 9/16"	31.36		87°-05'-29"	13-4 3/8"				0	0				36WF135				0	9 7/16"	2@10"	1@15"	2@24"				61-R	
	62-R	"	31.22	5/8	"	"	31.42		"	18-9 1/8				0	0				"				0	10 9/16	4@12	1@15	5@24				62-R	
	63-R	"	31.46	1 1/8	"	"	31.69		"	25-1 7/16				0	0				"				0	9 11/16	4@12	3@17	4@24				63-R	
	64-R	"	31.88	1/2	"	"	32.05		"	28-5 3/4				.008	.009				"				5/8	1-1 3/8	2@14	5@17	5@24				64-R	
	65-R	1-0	31.34	1/8	"	5-8 1/2	31.97		"	27-2 3/8	-	-	27-2 3/8	.010	.010	48"x 5/16"	-	-	-	-	12x 3/4"	16x 3/4"	1 5/8	1-1 3/16	-	6@15	10@24	2-7 3/16	-	8@48"	65-R	
	66-R	5-3	31.26	11/16	"	11-3 3/16	32.01		"	44-10 7/16	-	-	44-10 7/16	"	"	"	-	-	-	-	"	"	"	1 11/16	-	9@15 1/2	"	2-3 3/16	2@35	8@48	66-R	
	67-R	"	31.13	13/16	"	"	31.97		"	52-6 7/16	-	-	52-6 7/16	.021	.026	"	-	-	-	-	"	"	1 1/4	1-1 3/16	4@12 1/2	12@14	7@24	2-3 3/16	4@36	8@48	67-R	
	68-R	"	30.85	3/4	"	"	31.94		"	60-2 1/2	9-8	-	50-6 1/2	.033	.038	"	1 1/2 3/4"	14x 3/4"	-	-	"	16x 7/8	2	7 1/4	10@12	10@15	7@24	2-1 1/4	6@36	8@48	68-R	
	69-R	"	30.79		"	"	31.90		"	67-10 9/16	8-8	-	59-10 9/16	.040	.046	"	"	"	-	-	"	16x 1 1/8	2 1/4	9 3/4	8@11 1/2	14@15	"	1-5 1/4	6@32	8@48	69-R	
	610-R	"	30.62		"	"	31.86		"	75-6 9/16	7-8	7-2	65-10 9/16	.047	.077	"	"	"	12x 3/4"	16x 1/4"	12x 3/4	16x 1 1/8	2 1/2	8 1/4	8@11	17@14	9@24	1-0 1/4	9@32	8@48	610-R	
	611-R	6-4 15/16	30.45	1 1/8	"	8-2 1/2	31.80		"	83-2 5/8	7-0	8-6	53-2 5/8	.082	.086	"	"	"	"	16x 1/2	12x1	16x 1 5/8	2 3/4	10 5/16	7@12	18@12 1/2	12@24	2-1 5/16	10@32	8@48	611-R	
	612-R		30.21		90-31-36		31.74		88-37-04	88-10 1/8	8-8	10-3	85-9 1/8	.116	.122	"	"	"	12x1 3/8	16x1 1/2	12x1 5/8	16x1 3/4	3 1/4	8 1/16	7@12	18@15 1/2	15@24	2-2 1/16	11@32	"	612-R	
	68-L		34.48		88-46-22	11-6	35.24		88-46-22	88-6 5/16	5-3	12-3	53-6 5/16	.118	.126	48x 5/16	12x 3/4	14x 3/4	12x1 3/8	16x1 3/8	12x2 1/4	16x2 1/8	3 1/4	9 1/4	8@11	17@15	16@24	1-7 1/4	12@32	8@48	68-L	
	67-L		34.70		"	"	35.00		"	"	"	"	"	.083	.086	"	"	"	12x1 1/4	"	12x1 5/8	"	2 3/8	"	"	"	"	"	"	"	67-L	
	66-L		35.08		"	"	35.04		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	66-L	
	65-L		35.45		"	4-3	35.56		"	"	6-6	10-6	54-6 5/16	.072	.086	"	"	"	12x1	16x1 5/8	12x1 1/4	16x1 5/8	2 5/8	"	"	"	"	2-3 1/4	12@32	8@48	65-L	
	64-L	5-10 1/2	35.69		88-39-00	10-8 1/2	36.76		88-35-30	67-6 15/16	7-0	9-10	53-9 15/16	"	"	"	"	"	12x 3/8	16x1 1/2	12x1 5/8	16x1 3/4	"	12	10@12	19@15	"	2-5	11@32	8@48	64-L	
	63-L	10-8 1/2	35.82		"	"	37.19		"	"	6-6	10-6	"	.080	.092	"	"	"	12x1	16x1 5/8	12x1 1/4	16x1 5/8	2 3/4	11	11@11	"	"	"	"	"	63-L	
	62-L	"	36.06		"	"	37.62		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	62-L	
26	61-L	"	36.27		"	0-4 3/8 SH 0-4 3/16	38.11		"	"	5-7	11-3	"	.118	.126	"	"	"	12x1 5/8	16x1 3/4	12x2	16x2	3 1/4	9	-	-	49@24	"	"	"	61-L	
	61-R	6-1	36.76		88-49-42	7-11	38.38		79-01-14	88-6 1/4	7-6	11-0	61-4 1/4	.157	.157	"	"	"	12x1 1/2	16x1 5/8	12x1 3/4	16x1 5/8	3 5/8	6-4 1/8	-	-	48@24	1-0 1/8	10@34	10@48	61-R	
	62-R	10-4 1/2	37.19		88-22-47	"	38.71		79-05-39	93-8	8-4	11-4	58-2	.088	.089	"	"	"	12x1 1/8	16x1 3/4	12x1 1/2	16x2	2	10	7@11	18@15	17@24	2-4	12@32	8@48	62-R	
	63-R	"	37.64		88-55-00	"	39.08		79-12-41	86-3 11/16	6-6	9-9	55-9 11/16	.069	.092	"	"	"	12x1	16x1 5/8	12x1 1/4	16x1 5/8	2 3/4	7 11/16	7@12	"	16@24	2-1 11/16	12@32	"	63-R	
	64-R	"	38.09		88-05-56	"	39.47		77-19-39	83-1 7/16	7-10	8-7	50-3 7/16	.075	.088	"	"	"	12x 3/8	16x1 5/8	12x 3/8	16x1 5/8	"	6 3/16	9@12	18@15	12@24	1-2 3/16	10@34	8@48	64-R	
	65-R	5-3	38.21		88-09-56	4-0	39.66		78-29-39	80-5 15/16	7-5	8-6	48-7 15/16	.065	.070	"	"	"	"	"	"	16x1 1/2	2 5/8	8 15/16	8@11 1/2	18@15 1/2	10@24	2-3 15/16	10@33 1/2	8@48	65-R	
	66-R	10-11	38.75		88-17-27	5-4	39.87		78-21-59	75-0 7/16				.056	.066				36WF300				4	7 3/4	18@10 1/2	19@15	8@24				66-R	
	67-R	"	38.29		88-27-16	"	40.42		78-11-46	69-6 15/16				.048	.055				"				3 1/8	8	17@10 1/2	"	3@24				67-R	
	68-R	"	38.72		88-35-52	"	40.79		78-03-14	64-1 7/16				.035	.039				"				2 3/4	9 3/8	16@10 1/2	18@15	"				68-R	
	69-R	"	39.25		88-52-15	"	41.20		80-06-46	58-8				.031	.040				36WF230				2	8	20@10	8@15	3@24				69-R	
	610-R	10-7 1/2	39.72	1 3/16	81-08-26	5-3	41.55		80-22-56	53-2 9/16				.020	.020				"				1 7/8	8 1/4	17@10	"	"				610-R	
	611-R		41.15		81-18-04		41.85		80-32-38	47-11 1/8	-	-	47-11 1/8	.016	.018	48x 5/16	-	-	-	-	12x 3/4	16x 3/4	1 3/4	7 9/16	-	7@16	14@24	2-11 9/16	3@36	8@48	611-R	
	615-L	10-1	32.09		95-28-17	7-0 1/8	33.77		79-42-49	83-11 15/16	6-0	9-9	62-5 15/16	.127	.146	48x 5/16	12x 3/4	14x 3/4	12x1 1/8	16x1 1/2	12x1 3/4	16x1 3/4	2 1/4	11	10@12	18@15	11@24	2-5	10@33	8@48	615-L	
	616-L	"	32.33		"	"	34.40		"	78-8 1/8	7-3	7-6	49-2 1/8	.074	.085	"	"	"	12x 3/4	16x1 1/4	12x 7/8	16x1 1/2	2 5/8	7 1/16	9@12	15@15	"	1-10 1/16	3@36	"	616-L	
	617-L	"	32.58		"	"	34.22		"	73-4 5/16				.054	.062				36WF300				4	8 1/8	20@10	12@15	3@24				617-L	
	618-L	"	32.91		"	"	34.60		"	68-0 1/2				.040	.050				"				3	7 1/4	"	11@15	"				618-L	
	619-L	"	33.21		95-28-17	11-1 9/16	34.88		78-42-49	62-8 11/16				.030	.040				"				2 7/8	4 3/8	2@6	-	3@9				619-L	
	610-L	15-0 9/16	34.38		95-38-52	2-1	35.68		78-43-24	55-1 1/8				.020	.020				"				1 7/8	5 5/8	3@6	-	2@8				610-L	
	69-L	5-0	34.71		96-05-31	6-8	35.90		75-21-00	52-5 5/8				.020	.020				36WF230				1 1/2	5 11/16	2@7	-	2@12				69-L	
	68-L	12-6	35.51		98-21-36	"	36.30		75-38-00	45-5 7/8				.020	.020				36WF135				1 1/4	6 7/16	6@12	5@15	6@24				68-L	
27	67-L	9-0	35.67	1/2	98-44-39	5-4	36.62		77-58-09	41-7 7/16				.010	.020				"				1	8 1/2	"	4@16	7@24				67-L	
	66-L	11-0	36.37	1 5/8	98-55-27	"	37.01		78-09-58	36-0 7/8				.010	.010				"				5/8	7 7/16	7@11	"	6@24				66-L	
	65-L	"	36.54	1/2	99-00-48	"	37.32		78-24-25	30-6 9/16				0	0				"				1/2	8 3/8	6@9	2@18	5@24				65-L	
	64-L	6-0	37.14	1 3/8	99-23-03	7-11	37.60		79-37-33	27-5 5/8				0	0				"				0	8 15/16	7@9	"	4@24				64-L	
	63-L	8-2	37.57	1 3/16	99-29-39	"	37.95		79-43-54	23-4 15/16				0	0				"				0	8 1/2	6@12	2@15	3@24				63-L	
	62-L	"	38.04	1 5/8	99-38-05	"	38.38		79-53-35	17-8 9/16				0	0				"				0	6 1/8	4@11	"	2@24				62-L	
	61-L	"	38.46	1 5/8	99-55-46	9-0 5/16	38.84	1/8	80-10-15	12-3 9/16				0	0				"				0	7 3/8	2@12	"	1@24				61-L	

* DIMENSION MEASURED ALONG ℄ PIER 27 FROM GIRDER 61-L TO INTERSECTION WITH TANGENT LINE.

NOTE "A": GIRDERS 61-L THRU 68-L OF SPAN 26, NORTH END SUPPORTED BY PIER 27.

SECTION NO. S-2023.3-4N S-2023.3-4NF

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

SOUTH ROUTE SUPERHIGHWAY

SECTION NO. {S-2023.3-4N / S-2023.3-4NF}

W. CERMAK RD. TO W. 15th STREET

STRUCTURAL STEEL DETAILS

CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS
CHICAGO, ILLINOIS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION
SN 016-1112

SCALE: NTS | DRAWN BY: BDC
DATE: 7/22/2005 | CHECKED BY: BLU

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

FOR INFORMATION ONLY

AM 7-14-11

5/22/2007

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