		LIGH	TING SCH	EDULE (1 OF							LIGF	TING SCH	EDULE (2 OF	4)		-	_
					X8210007	83600200	84400105	83800105						X8210007	83600200	84400105	83800
	DEFEDENCE				LUM LED	LIGHT		BKWY DEV		DEEEDENGE				LUM LED	LIGHT		BKWY
ROADWAY	REFERENCE	STATION	OFFSET	LIGHT POLE	RDWY ROD	POLE EDN	RELOC EX	TR B	ROADWAY	REFERENCE	STATION	OFFSET	LIGHT POLE	RDWY ROD	POLE FDN	RELOC EX	TR
	ALIGNMENT			NUMBER	н	24D	LT UNIT	11.5BC		ALIGNMENT			NUMBER	Н	24D	LT UNIT	11.5
							EACH					ET.				FACU	
			FT		EACH	FOOT	ЕАСП	EACH				FT		EACH	FOOT	EACH	EAC
ainline I-94	Ex_CL_I-94	448+94.2900 R1	-60.29		1				Mainline I-94		557+73.7878 R1		GA14 & GB14	2			
1ainline I-94	Ex_CL_I-94	448+94.5200 R1	58.5	XA10	1				Mainline I-94	Ex_CL_I-94	560+59.9927 R1		GA15 & GB15	2			
1ainline I-94	Ex CL I-94	450+93.3975 R1	-59.6494	XA14	1				Mainline I-94	Ex CL I-94	562+89.0177 R1	-0.406	GA16 & GB16	2			
1ainline I-94	Ex CL I-94	450+93.6286 R1	59.1214	XB10	1				Mainline I-94	Ex CL I-94	565+19.7464 R1	0.3006	GA17 & GB17	2			
lainline I-94	Ex CL I-94	452+58.0148 R1			1				Mainline I-94		567+31.4991 R1		GA18 & GB18	2			
1ainline I-94		452+58.0148 R1			1				Mainline I-94		569+62.6883 R1		FC14 & FD14	2			
Aainline I-94		453+98.5153 R1		XA15	1					Ex CL I-94	571+92.2151 R1		FC13 & FD13	2			
					1									-			
1ainline I-94		453+98.9458 R1			1				Mainline I-94		574+20.1609 R1		FC12 & FD12	2			
1ainline I-94		455+39.8734 R1			1				Mainline I-94		576+44.1737 R1		FC11 & FD11	2			
lainline I-94	Ex_CL_I-94	455+39.8734 R1	-59.3111	XB16	1				Mainline I-94	Ex_CL_I-94	578+77.5104 R1	0.3953	FC10 & FD10	2			
1ainline I-94	Ex CL I-94	457+01.4870 R1	59.5273	XB12	1				Mainline I-94	Ex CL I-94	581+02.3879 R1	0.8169	FC9 & FD9	2			
1ainline I-94	Ex CL I-94	457+05.0979 R1			1				Mainline I-94		583+28.1615 R1	0.9811	FC8 & FD8	2			
1ainline I-94		460+04.4912 R1		HA10 & HB10	2				Mainline I-94		585+56.1258 R1	0.1779		2			
lainline I-94		462+11.8942 R1	0.6207		2				Mainline I-94		587+91.4776 R1	-0.113		2			
														_			
1ainline I-94		464+23.0248 R1	0.9115		2				Mainline I-94		590+16.1179 R1	-0.8268	FC5 & FD5	2			
1ainline I-94	Ex_CL_I-94	466+32.9976 R1	0.8135		2				Mainline I-94		592+47.6464 R1	1.2496	FC4 & FD4	2			
1ainline I-94	Ex_CL_I-94	468+27.9106 R1	0.8955	HA6 & HB6	2				Mainline I-94	Ex_CL_I-94	594+83.8032 R1	-0.3622	FC3 & FD3	2			
lainline I-94	Ex CL I-94	470+40.4869 R1	1.3143	HA5 & HB5	2				Mainline I-94	Ex CL I-94	597+81.8433 R1	-0.298	FC2 & FD2	2			
ainline I-94		472+54.6510 R1	1.3925		2				Mainline I-94	Ex CL I-94	600+81.8458 R1	0.0269	FC1 & FD1	2			
ainline I-94		474+64.2189 R1	1.558		2					Ex CL I-94	603+76.1771 R1	66.883	FL7	1			
ainline I-94		476+64.9444 R1	1.8001		2				Mainline I-94		603+77.5539 R1		FJ1	1			
1ainline I-94		478+76.8554 R1	1.6095		2				Mainline I-94		606+26.0935 R1		EA12 & EB12	2			
1ainline I-94	Ex_CL_I-94	480+78.0269 R1	1.4955		2					Ex_CL_I-94	608+55.7011 R1		EA11 & EB11	2			
1ainline I-94	Ex_CL_I-94	482+77.7944 R1	1.185	HC2 & HD2	2				Ramp W3	ExBL1	100+17.7993 R1	21.6684	HJ5	1			
Mainline I-94	Ex CL I-94	484+82.3205 R1	0.759	HC3 & HD3	2				Ramp W3	ExBL1	102+18.7026 R1	19.8383	HI5	1			
1ainline I-94	Ex CL I-94	485+67.6912 R1	-64.7823	HG19	1				Ramp W3	ExBL1	104+20.7833 R1	19.7033	HJ4	1			
Aainline I-94		485+71.2346 R1	67.75		1				Ramp W3	ExBL1	106+21.5798 R1	19.9482	HI4	1			
Mainline I-94		487+65.8977 R1			1				Ramp W3	ExBL1	108+22.3894 R1			1			
		487+66.8281 R1			1								HE1	1			-
Mainline I-94					1				Ramp W3	ExBL1	108+86.5500 R1	-60.33		1			
1ainline I-94		489+63.0839 R1	63.5562		1				Ramp W3	ExBL1	109+04.9200 R1	-138.5	HI1	1			_
1ainline I-94	Ex_CL_I-94	489+64.5533 R1	-60.7613	HG18	1				Ramp W3	ExBL1	110+52.4500 R1	-94.8	HJ1	1			
1ainline I-94	Ex_CL_I-94	491+44.2755 R1	65.3487	HG16	1				Ramp W3	ExBL1	112+27.5800 R1	-79.7	HI2	1			
1ainline I-94	Ex CL I-94	491+45.7500 R1	-62.1518	HH18	1				Ramp W3	ExBL1	110+30.4994 R1	20.2215	HI3	1			
lainline I-94	Ex CL I-94	493+38.9399 R1	-63 4733	HG17	1				Ramp W3	ExBL1	112+25.4551 R1	21.295	HJ2	1			
lainline I-94		493+39.5548 R1								W1	10+12.5451 R1						
									Ramp W1	W 1	10+91.6200 R1	-81.54					
lainline I-94		494+16.4657 R1		HG9 & HH9													
lainline I-94		496+93.5008 R1		HG10 & HH10					Ramp W1	W1	11+40.4902 R1	19.0985					
ainline I-94		499+67.9035 R1		HG11 & HH11	2				DOLTON RD	-	-	-	HF3				
ainline I-94	Ex_CL_I-94	502+50.7669 R1	0.5317	HG12 & HH12	2				Ramp W1	W1	13+02.3400 R1	-56.3					
lainline I-94	Ex_CL_I-94	505+16.4267 R1	-0.0553	HG13 & HH13	2				Ramp W1	W1	13+40.2331 R1	20.0438	HE5	1			
lainline I-94		508+01.9091 R1		HG14 & HH14					Ramp W1	W1	15+40.2507 R1	20.4404		1			
lainline I-94		532+10.5547 R1		GA1 & GB1	2				Ramp W1	W1	17+40.0112 R1	20.2662					1
ainline I-94		534+87.8071 R1		GA2 & GB2					Ramp W1	W1	19+11.4524 R1	26.463					1
								+		W1	21+21.4563 R1	16.251		1			+
ainline I-94		537+67.6014 R1			2			<u> </u>	Ramp W1					1			-
ainline I-94		540+46.4899 R1						<u> </u>	Ramp W4	W4	50+63.4900 R1	-74.2					
ainline I-94		543+26.6573 R1			2				Ramp W2	W2	51+32.8352 R1	23.8928					
ainline I-94	Ex_CL_I-94	546+06.4109 R1		GA6 & GB6					Ramp W2	W2	52+60.3800 R1	-65.3	HH20	1			
ainline I-94		549+17.2545 R1		GA11 & GB11					Ramp W2	W2	53+02.0110 R1	19.2191	HH6	1			
1ainline I-94		552+20.4858 R1		GA12 & GB12					Ramp W2	W2	54+46.5452 R1	18.7596					
								+	Ramp W2	W2	55+99.3955 R1	20.3481					
lainline I-94		554+89.0452 R1	0.0484	GA13 & GB13			-										
		SUBTOTAL 1			78	0	0	0	Ramp W2	W2		19.6742	HG7		-	-	
									1	C	SUBTOTAL 2			72	0	0	0

efault	745 McClinteek Drive	USER NAME = hbmepw11ics01\$	DESIGNED - FPE	REVISED - 2 02/18/2025 LNK			LIGHTING PLAN SCHEDULE OF QUANTITIES	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
📲 ໂ 🗛 🗛 🖓	NA Suite 210 Burr Ridge, IL 60527		DRAWN - LNK	REVISED -	STATE OF ILLINOIS		I–94 (BISHOP FORD EXPY)	94	(42-B-11-1) BR, BJR 24	соок	761 401
	REG 184.002117 Ph. 773-881-4788 www.abnacorp.com	PLOT SCALE = 100.0000 ' / in.	CHECKED - JMO	REVISED -	DEPARTMENT OF TRANSPORTATION			_		CONTRACT	NO. 62W87
2 u		PLOT DATE = 3/18/2025	DATE - 12/9/2024	REVISED -		SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT	

			LIGH	TING SCHEI	DULE (3 OF		7 036003	00 0440010	5 0200010)5				L	IGHTIN	S SCHEDUL			7 0260020	0 04400105	020001
		с г				LUM LED		00 8440010										LUM LEE		0 84400105 RELOC EX	DIGINO D
ROADWAY	REFEREN		STATION	OFFSET	IGHT POLE	RDWY RO H					ROADWAY	REFEF		STATION	OF		IT POLE JMBER	RDWY RC H		N LT UNIT	TR B
				FT		EACH	FOOT	EACH	EACH							FT		EACH	FOOT	EACH	EACH
amp W2	W2		+02.8293 R1	19.8894	HH8	1					Ramp Y5	Y5		861+57.2930		1.499	FB2				
amp W2 amp W4	W2 W4		2+58.0998 R1 0+44.6058 R1	78.0439 23.0317	HG8 HH4	1					Ramp Y5 Ramp Y5	Y5 Y5		863+31.6515 865+08.1822		.3344	FA2 FB1				
amp W4 amp W4	W4		2+30.6333 R1		HG4	1					Ramp Y5	Y5		866+82.2115		.1252	FA1				
amp W4	W4		4+26.2983 R1		ННЗ	1					Ramp Y6	Y6		900+96.2470		.5168	FB10				
amp W4	W4	15	6+10.8917 R1	20.1142	HG3	1					Ramp Y6	Y6		902+41.7199	R1 9	.8842	FA9	1			
amp W4	W4	15	7+92.1426 R1		HH2	1					Ramp Y6	Y6		903+86.6278		.0143	FB9	1			
amp W4	W4		0+01.0910 R1		HG2	1	_				Ramp Y6	Y6		905+31.1447		.9752	FA6				_
amp W4	W4		2+08.6800 R1	-38.6	HG1	1					Ramp Y6	Y6		906+76.3730		.3408	FB6				
amp W4 amp W4	W4 W4		2+39.6700 R1 3+85.5200 R1	-110.8	HF 1 HE2	1					Ramp Y6 Ramp Y6	Y6 Y6		908+19.2696 909+65.5403		.1486	FA7 FB7				
amp W4	W4		2+07.3998 R1		HH1	1					Ramp Y6	Y6		911+10.9626		.9576	FA8				
amp W4	W4		3+79.0346 R1		HH5	1					Ramp Y7	Y7		950+86.5173		.2599	FK6				
amp Y1	Y1	65	7+64.3882 R1	10.1942	FH10	1					Ramp Y7	Y7		952+45.8900	R1 10	.5423	FL6	1			
amp Y1	Y1		9+19.4667 R1	9.8603	FG10	1					Ramp Y7	Y7		953+93.8506	R1 -2	6.068	FK5				
amp Y1	Y1		0+78.0402 R1	10.889	FH9	1	_				Ramp Y7	Y7		955+43.1388		5.245	FL5				_
mp Y1	Y1		2+30.8016 R1	10.6185	FG9	1					Ramp Y7	Y7		956+93.1737		.6122	FK4				
amp Y1 amp Y1	Y1 PR CENTERLINE		3+88.1009 R1 3+77.3947 R1	10.1983 11.5047	FH8 FG8	1	6	1	4		Ramp Y7 Ramp Y7	Y7 Y7		958+44.1102 959+78.8785		.4122	FL4 FK2				
mp 11 mp Y1	PR CENTERLINE				FG8 FH7	1	6	1	4	—	Ramp Y7	Y7		961+30.8618		.8465	FL2				
mp Y2	Y2		0+20.3431 R1	15.1149	FG1	1		· ·			Ramp Y8	Y8		1001+02.192			FK7				
mp Y2	Y2		1+41.1652 R1	17.0593	FH1	1					Ramp Y8	Y8		1002+54.373		.7376	FL9				
imp Y2	Y2	70	2+85.5674 R1	10.1287	FG2	1					Ramp Y8	Y8		1004+19.885	7 R1 10	.8018	FK8	1			
mp Y2	Y2		4+35.4132 R1	-25.1826	FH2	1					Ramp Y8	Y8		1005+83.316		.2618	FL10				
imp Y2	Y2		5+85.9965 R1		FG3	1					Ramp Y8	Y8		1007+38.875		.4374	FK9				
mp Y2	Y2 Y2		7+36.9135 R1 9+06.6113 R1		FH3 FG4	1					Ramp Y8	Y8 Y8		1009 + 12.982			FL11 FK10				
amp Y2 amp Y2	Y2		0+36.3071 R1	9.9025	FU4 FH5	1	-				Ramp Y8 Ramp Y8	Y8		1010+95.378 1012+62.729			FL12				
mp Y2	Y2		1+91.7710 R1	12.9338	FG6	1					Ramp Y8	Y8		1012+02.725			FK11	1			
mp Y3	Y3		1+00.2297 R1	11.1271	FI5	1					US 6	Y4		815+46.8379		.4135	FI14	1			
amp Y3	Y3	75	2+64.5634 R1	9.4113	FJ5	1					US 6	Y1		656+07.1266	-13	3.848	FH4	1			
amp Y3	Y3		4+31.1988 R1		FI3	1					US 6	Y8		1002+12.605		.7583	FL1	1			
amp Y3	Y3		5+71.8110 R1	-25.1896	FJ3						US 6	Y5		864+04.6186		.4376	FB11				
amp Y3	Y3		7+28.2855 R1	-26.103	FI2	1	-				US 6	Y7		960+83.9582		.3026	FK1				
amp Y3 amp Y3	Y3 Y3		8+84.3940 R1 0+39.3600 R1	9.8387 12.9583	FJ2 FI1	1	-				US 6 US 6			338+97.1349 340+34.4556		.8684	FA11 FK3				
amp Y4	Y4		4+96.6596 R1		FJ11	1					US 6			341+74.2789		.1869	FL3				
amp Y4	Y4		6+51.5039 R1		FI10	-					US 6			342+05.2589		.0872	FA10				
amp Y4	Y4		8+24.4168 R1	16.011	FJ9						US 6			345+24.8554		.5557	FI6				
amp Y4	Y4		9+89.6734 R1	8.7762	FI9						US 6			345+81.0765	-48	.8481	FH6	1			
amp Y4	Y4		1+55.2201 R1		FJ8						US 6			346+49.9435		.0366	FJ6				
mp Y4	Y4		3+19.8155 R1		FI8						US 6			348+72.0430		.2376	FG5				
mp Y5 mp Y5	Y5 Y5		1+76.7331 R1 3+40.0910 R1		FB5 FA5	1					US 6	EXISTING C		349+84.0229 BTOTAL 4	36	.7504	FJ14		0	0	
mp Y5	Y5		5+08.4018 R1		FB4	1								TOTAL 4				43 241	0	2	0
amp Y5	Y5		6+71.9365 R1		FA4	1	-				I							271	12	2	0
amp Y5	Y5		8+37.5785 R1		FB3																
amp Y5	Y5	86	0+01.1688 R1		FA3																
		SUBT	OTAL 3			48	12	2	8												
	1		1	01100		110 01-	00050	1000000		TING SCHE		0000000		0000 0000	0.2.1.0	01200122	0		2110020	2110000	0160202
				811003	520 81/02			A CBL 3-	51028350	82200609 WWOWL	82200606 WWOWL	OBSTRU		0220 8130	0310	01300420		0830 8	2110026	32110022	8160308 UD
ROADWA	AY FRO	M STA	το στα		ST EC C GS USE 1		E 3-1C 1	CG MECC	JNDRGRD C PVC 2		LED 180 R			X SS JUN B X6X4 AS 8							0D 3#2#4GX USE 1.5
				FOOT	FOC		10 00T	FOOT	FOOT	EACH	PM EACH	EACH	EAG	CH EA	сн	EACH		СН	EACH	EACH	FOOT
Over Dolt	ton 478+4	7 356	479+21.9413						1001	LACH			8			<u>4</u>		2	8	-	-
			665+40.34 R		- 90					<u> </u>			-			-		-	-	-	152.4
			666+97.48 R							<u> </u>						-		_	_	_	192.4
	TH ST 547+3		547+94.02	350						<u> </u>		1	8			2		$\frac{1}{1}$	8	-	-
	TH ST 602+4		603+32.58	400									6			3		1	-	8	-
STELL BR			458+00	1331			435	100	24	2	6	1		1	1	<u> </u>				-	
	TOT			2481			435	100	24	2	6	1	2			9	·	4	16	8	300
	LICED MANE	hbmepw11ics01\$	DESIGN	ED EDE		SED -	02/18/2025 LNK											.	FAI		
NIA 745 McCl Suite 210	Intock Drive	nomepw111cs01\$	DESIGN			SED - <u>/2</u> SED -	2/10/2025 LNK	-	STAT	E OF ILLINOI	IS		I	LIGHTING PLAN			TITIES		KIL.		
M REG. 184.002117	nacorp.com	100.0000 / in.	CHECKE			SED -		DE		OF TRANSP		L				RD EXPY)			94 (42-B-11	-1) BR, BJR 24	COOK 71
	PLOT DATE =	2.4.0.0000	DATE	- 01/22/20	0.05	SED -		1				SCAL		SHEET 2 OF	2 SHEET		TO STA			ILLINOIS FED. AID P	







fault Whb		USER NAME = hbmepw11ics01\$	DESIGNED - FPE	REVISED -				LIGHTI	
AME:	ARNIA ^{745 McClintock Drive} Suite 210 Burg Ridge II 60527		DRAWN - LNK	REVISED -	STATE OF ILLINOIS		1.04		
E N	Design Firm Reg. 184.002117 Www.abnacorp.com	PLOT SCALE = 100.0000 ' / in.	CHECKED - JMO	REVISED -	DEPARTMENT OF TRANSPORTATION		I-94	(BISHO	P FUK
M		PLOT DATE = 12/10/2024	DATE - 12/9/2024	REVISED -		SCALE:	SHEET 3	OF 22	SHEETS



fault ∖\hb		USER NAME = hbmepw11ics01\$	DESIGNED -	FPE	REVISED -				LIGHTI	
AME.	* ARNIA 745 McClintock Drive Suite 210		DRAWN -	LNK	REVISED -	STATE OF ILLINOIS		I_9		
DDEL N	DESIGN FIRM REG. 184.002117 Ph. 773-881-4788 www.abnacorp.com	PLOT SCALE = 100.0000 ' / in.	CHECKED -	JMO	REVISED -	DEPARTMENT OF TRANSPORTATION		I-9	4 (BISHO	P FUK
ΧĒ		PLOT DATE = 12/10/2024	DATE -	12/9/2024	REVISED -		SCALE:	SHEET 4	OF 22	SHEETS



DAWN IN







			·	STEWART AVE	
501+50	HG12		1–94 (BISHOP FORD EXI	PY) WB	
MATCHLINE STA	<u>=,502</u> <u>=,502</u> <u>→</u> <u>→</u> HH12	<u> </u>	HH13 C HH15 C H15 C H15 C	HH14	<u> </u>
¥			[∞] I–94 (BISHOP	FORD EXPY) EB	
DESIGN FREM REG. 194.092117 DESIGN FREM REG. 194.092117 Ph. 773-881-4788 www.abnacorp.com	USER NAME = hbmepw11ics015 PLOT SCALE = 100,0000 ' / in, PLOT DATE = 12/10/2024	DESIGNED - FPE DRAWN - LNK CHECKED - JMO DATE - 12/9/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING PLAN I-94 (BISHOP FORD I SCALE: SHEET 7 OF 22 SHEETS STA







\hb \hb		USER NAME = hbmepw11ics01\$	DESIGNED -	FPE	REVISED -				LIGHTING	. DI
AME			DRAWN -	LNK	REVISED -	STATE OF ILLINOIS				
E N.	DESIGN FIRM REG. 184.002117 Ph. 773-881-4788 www.abnacorp.com	PLOT SCALE = 100.0000 ' / in.	CHECKED -	JMO	REVISED -	DEPARTMENT OF TRANSPORTATION		I-9	94 (BISHOP I	FUK
ž Ē		PLOT DATE = 12/10/2024	DATE -	12/9/2024	REVISED -		SCALE:	SHEET 9	OF 22 SHE	ETS





efaul \\h		USER NAME = hbmepw11ics01\$	DESIGNED -	FPE	REVISED -			LIGHTIN	ING
AME	ARNIA 745 McClintock Drive Suite 210 Burr Ridge, IL 60527		DRAWN -	LNK	REVISED -	STATE OF ILLINOIS			
DDEL	DESIGN FIRM REG. 184.002117 Ph. 773-881-4788 www.abnacorp.com	PLOT SCALE = 100.0000 ' / in.	CHECKED -	JMO	REVISED -	DEPARTMENT OF TRANSPORTATION		I–94 (BISHOI	IP F
M		PLOT DATE = 12/10/2024	DATE -	12/9/2024	REVISED -		SCALE:	SHEET 10 OF 22 S	SHEE















∖h		USER NAME = hbmepw11ics01\$	DESIGNED -	FPE	REVISED -				LIGHTING P
AME	ARNA Suite 210 Burr Ridge, IL 60527		DRAWN -	LNK	REVISED -	STATE OF ILLINOIS		1.04	
E N.	DESIGN FIRM REG. 184.002117 Www.abnacorp.com	PLOT SCALE = 100.0000 ' / in.	CHECKED -	JMO	REVISED -	DEPARTMENT OF TRANSPORTATION		I-94	4 (BISHOP FO
ž E		PLOT DATE = 12/10/2024	DATE -	12/9/2024	REVISED -		SCALE:	SHEET 16	OF 22 SHEETS





efault Mht		USER NAME = hbmepw11ics01\$	DESIGNED -	FPE	REVISED -				ЦСНТ	ING PL
AME:			DRAWN -	LNK	REVISED -	STATE OF ILLINOIS		1_9		
E N.	DESIGN FIRM REG. 184.002117 Www.abnacorp.com	PLOT SCALE = 100.0000 ' / in.	CHECKED -	JMO	REVISED -	DEPARTMENT OF TRANSPORTATION		I—9	4 (BISHC	OP FOR
M		PLOT DATE = 12/10/2024	DATE -	12/9/2024	REVISED -		SCALE:	SHEET 18	OF 22	SHEETS





USER NAME = hbmepw11cs015 USER NAME = hbmepw11cs015	DESIGNED - FPE DRAWN - LNK CHECKED - JMO	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTI	ING PLAN ONE LINE DIAGR/ I-94 (BISHOP FORD
PLOT DATE = 3/18/2025	DATE - 12/9/2024	REVISED -		SCALE:	SHEET 20 OF 22 SHEETS S

١G	RAM CO	ONTROLLER "H"	F.A.I. RTE	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
nR	RD EXPY)			94 (42-B-11-1) BR, BJR 24 CC				761	422
							CONTRACT	NO. 62	2W87
ΓS	STA.	TO STA.			ILLINOIS	FED. AI	ID PROJECT		

I-	94 BISHOP FO	RD EXPRE	SSWAY C	ONTROLLER	"H"				
PHA	ASE A		PHASE B						
	TOTAL				TOTAL				
RE	CURRENT AT	TOTAL		LUMINAIRE	CURRENT AT	TOTAL			
Т	240V	WATTS	CIRCUIT	COUNT	240V	WATTS			
	9.6A	2200W	В	10	9.6A	2200W			
	13.5A	3080W	D	14	13.5A	3080W			
	7.3A	1667W	F	8	6.3A	1447W			
	9.2A	2107W	Н	11	9.2A	2107W			
	4.8A	1100W	J	5	4.8A	1100W			
	44.5A	10155W	TOTAL:	48	43.6A	9935W			

I-94 (BISHOP FORD EXPY)	I-94	(BISHOP	FORD	EXPY)
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US 6 (159TH ST)

ŀ	94 BISHOP FC	RD EXPRE	SSWAY C	ONTROLLER	"F"	
PHA	ASE A			PH/	ASE B	
	TOTAL				TOTAL	
IRE	CURRENT AT	TOTAL		LUMINAIRE	CURRENT AT	TOTAL
Т	240V	WATTS	CIRCUIT	COUNT	240V	WATTS
	9.6A	2200W	В	8	7.7A	1760W
	13.5A	3080W	D	14	13.5A	3080W
	Х	Х	F	Х	Х	Х
	11.6A	2640W	Н	13	12.5A	2860W
	10.6A	2420W	J	12	11.6A	2640W
	11.6A	2640W	L	11	10.6A	2420W
	56.9A	12980W	TOTAL:	58	56.0A	12760W
("F'	TOTALS					
4	25740W					

AG	RAM	CONTROLLER "F	F.A.I. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
ΛR	ORD EXPY)			(42-B-11-1)	BR, BJR	24	СООК	761	423
							CONTRACT	NO. 62	2W87
TS	S STA. TO STA.				ILLINOIS	FED. AI	D PROJECT		



NOTES:

- 1 LIGHTING SYSTEM, INCLUDING WIRING INSTALLED ON PREVIOUS CONTRACT.
- (2) LUMINAIRES FOR ROADWAY AND UNDERPASS TO BE REPLACED WITH LED LUMINAIRES

	I-	94 BISHOP FO	RD EXPRE	SSWAY C	ONTROLLER	"G"							
	PHA	ASE A			PHA	ASE B							
		TOTAL				TOTAL							
	LUMINAIRE	CURRENT AT	TOTAL		LUMINAIRE	CURRENT AT	TOTAL						
CIRCUIT	COUNT	240V	WATTS	CIRCUIT	COUNT	240V	WATTS						
А	18	14.6A	3335W	В	18	14.6A	3335W						
С	Х	Х	Х	D	Х	Х	0W						
Е	Х	Х	Х	F	Х	Х	0W						
G	Х	Х	Х	Н	Х	Х	0W						
Ι	Х	Х	Х	J	Х	Х	0W						
К	Х	Х	Х	L	Х	Х	0W						
TOTAL:	18	14.6A	3335W	TOTAL:	18	14.6A	3335W						
CON	TROLLER "G'	" TOTALS											
AT 480:	13.9A	6670W											

efault 	745 McClintock Drive	USER NAME = hbmepw11ics01\$	DESIGNED - FPE	REVISED -		LIGHTING PLAN ONE LINE DIAGRAM CONTROLLER "G" I-94 (BISHOP FORD EXPY)			SECTION	COUNTY TOTAL SHEET
AAME	ABNA Ph. 773-881-4788		DRAWN - LNK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				(42-B-11-1) BR, BJR 24	СООК 761 424
	DESIGN FIRM REG. 184.002117 Ph. 773-881-4788 www.abnacorp.com	PLOT SCALE = 100.0000 ' / in.	CHECKED - JMO	REVISED -		SCALE				CONTRACT NO. 62W87
L		PEOT DATE = 3/18/2023	DATE - 12/9/2024	REVISED -		SCALE.	SHEET ZZ OF ZZ SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT



Z←ি─ NOT TO SCALE



ABNA 745 McClintock Driv Suite 210 Burr Ridge, IL 60527 Ph. 773-881-4788 DRAWN -STATE OF ILLINOIS LNK REVISED I-94 (BISHOP FO OT SCALE = 100.0000 ' / in. CHECKED -JMO REVISED **DEPARTMENT OF TRANSPORTATION** OF SHEET DATE REVISED -SCALE: SHEET LOT DATE = 3/18/2025 02/17/2025

I-	94 BISHOP FC	RD EXPRE	SSWAY C	ONTROLLER	"X"		
HΑ	SE A			PH/	ASE B		
E	TOTAL			LUMINAIRE	TOTAL	-	
-	CURRENT AT	TOTAL		& SIGNAL	CURRENT	AT	TOTAL
	240V	WATTS	CIRCUIT	COUNT	240V		WATTS
	24.8A	5660W	В	20	24.8A		5660W
	15.8A	3595W	D	16	14.9A		3395W
	0.5A	110W	F	2	0.5A		110W
	28.6A	6510W	Н	21	28.6A		6510W
	0.0A	0W	J	Х	0.0A		0W
	69.6A	15875W	TOTAL:	59	68.8A	. 1	L5675W
Χ"	TOTALS						
	31550W						
<u></u>		IED "V"	F.A.I.	SECTIO	N	COUNTY	TOTAL

AG	RAM	CONTROLLER "X"	F.A.I. RTE	SEC.	FION		COUNTY	TOTAL SHEETS	SHEET NO.
NR			94	(42-B-11-1) BR, BJR 24			СООК	761	424A
UII	ORD EXPY)						CONTRACT	NO. 62	2W87
TS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



NOTE:

THE EXISTING CABLE, CONDUIT, AND JUNCTION BOXES SHALL BE REPLACED WITH NEW CABLE, CONDUIT AND JUNCTION BOXES.

USER NAME = hbmepw11ics01\$	DESIGNED - FPE	REVISED - 🖉 02/18/2025 LNK			LIGHTING PLAN EXISTING LINDERPASS	F.A.I. SECTION CO	UNTY TOTAL SHEET SHEETS NO.
	DRAWN - LNK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	l I		94 (42-B-11-1) BR, BJR 24 CO	ООК 761 425
PLOT SCALE = 100.0000 ' / in. PLOT DATE = 3/18/2025	CHECKED - JMO DATE - 12/9/2024	REVISED - REVISED -		SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.		
	PLOT SCALE = 100.0000 ' / in.	OSER WHE DESCRED FEE DRAWN - LNK PLOT SCALE = 100.0000 ' / in. CHECKED JMO	OSER MARE DESIGNED THE REVISED Z OUTOEDED ENK PLOT SCALE = 100,0000 ' / in, CHECKED - JMO REVISED -	Observation Description Desc	Observed Description Description Revised Provide a state PLOT SCALE = 100,0000 ' / in. CHECKED - JMOO Revised -	Observation Description Description Description DRAWN LNK Revised - Plot Scale = 100,0000 ' / in. CHECKED JMO Revised -	Observation Description Desc



NOTES:

- 1 The existing cable, conduit, and junction boxes shall be replaced with new cable, conduit and junction boxes.
- THE PROPOSED LED LUMINAIRES SHALL BE INSTALLED PER IDOT DISTRICT 1 STANDARDS (SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS, STANDARD BE-901).
- (3) THE PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS AND SPACING SHALL MATCH THE EXISTING. CONTRACTOR SHALL FIELD VERIFY EXISTING LOCATIONS.

ti nega Ti	USER NAME = hbmepw11ics01\$	DESIGNED - FI	PE REV	ISED - 2 02/18/2025 LNK			LIGHTING PLAN PROPOSED UNDERPASS	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
ABBNA Burr Ridge, IL 60527 Ph. 773-881-4738 DESKIN FIRM REG. 184.00217	PLOT SCALE = 100,0000 ' / in.	DRAWN - LI CHECKED - JM	NK REV 40 REV	ISED - ISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		I–94 (BISHOP FORD EXPY) OVER DOLTON AVE.	94	(42-B-11-1) BR, BJR 24	COOK CONTRACT	761 426 NO. 62W87
ž E	PLOT DATE = 3/18/2025	DATE - 1	2/9/2024 REV	ISED -		SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. 4	ID PROJECT	



NOTE:

The existing cable, conduit, and junction boxes shall be replaced with NeW cable, conduit and junction boxes.

ting dd dd dd dd dd dd dd dd dd dd dd dd dd	USER NAME = hbmepw11ics01\$	DESIGNED - FPE	REVISED - 2 02/18/2025 LNK			LIGHTING PLAN EXISTING UNDERPASS	F.A.I. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
	50527	DRAWN - LNK	REVISED -	STATE OF ILLINOIS		I–94 (BISHOP FORD EXPY) AND 154TH ST	94	(42-B-11-1) BR, BJR 24	COOK 761 426A
DESIGN FIRM REG. 184.002117 Ph. 773-881-4 www.abnacor	PLOT SCALE = 100.0000 ' / in. PLOT DATE = 3/18/2025	DATE - 12/9/2024	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. A	CONTRACT NO. 62W87

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Ν	0	T	E	S	i

- \bigcirc The existing cable, conduit, and junction boxes shall be replaced with new cable, conduit and junction boxes.
- (2) THE PROPOSED LED LUMINAIRES SHALL BE INSTALLED PER IDOT DISTRICT 1 STANDARDS (SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS, STANDARD BE-901).
- (3) THE PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS AND SPACING SHALL MATCH THE EXISTING. CONTRACTOR SHALL FIELD VERIFY EXISTING LOCATIONS.

TATE ADDRESS AREA REG. 184.002117	USER NAME = hbmepw11ics01\$	DESIGNED - FPE REVISED - 2 02/18/2025 LNK		REVISED - 2 02/18/2025 LNK			LIGHTING PLAN PROPOSED UNDERPASS	F.A.I. SECTION	COUNTY TOTAL SHEET
	s	DRAWN -	LNK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCALE:		I–94 (BISHOP FORD EXPY) AND 154TH ST	94 (42-B-11-1) BR, BJR 24	СООК 761 427
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	JMO	REVISED -			1-94 (DISHUF FUND EXFT) AND 1941H ST		CONTRACT NO. 62W87
	PLOT DATE = 3/18/2025	DATE -	12/9/2024	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS FED. A	ND PROJECT

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NOT TO SCALE

– JUNCTION BOX STAINLESS STEEL, ATTACHED TO STRUCTURE

– JUNCTION BOX STAINLESS STEEL, ATTACHED TO STRUCTURE 18"x 18" x 8" (TYP.)



NOTE:

 \bigcirc the existing cable, conduit, and junction boxes shall be replaced with new cable, conduit and junction boxes.

745 MCCIntock Drive Suite 210 DESKIN FRW. REG. (14.060217) DESKIN FRW. REG. (14.060217) WWWABDACCOF COM	745 McClintock Drive	USER NAME = hbmepw11ics01\$	DESIGNED -	FPE	REVISED - 2 02/18/2025 LNK		LIGHTING PLAN EXISTING UNDERPASS				SS	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.		
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	LNK	REVISED -	STATE OF ILLINUIS		I-94 (BISHOP FORD EXPY) AND US 6 (159TH ST)			тя ст)	94	(42-B-11-1) BR, BJR 24	СООК	756 427A			
		CHECKED -	JMO	REVISED -	DEPARTMENT OF TRANSPORTATION		1-54 (DISHOF TOND EXFT) AND 03 0 (155111 31)			511 31/			CONTRAC	T NO. 62W87			
ΣĒ		PLOT DATE = 3/14/2025	DATE -	12/6/2024	REVISED -			SHEET 1	OF	1 SHE	EETS	STA.	TO STA.	ILLINOIS FED. A		AID PROJECT	

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NOT TO SCALE								



NOTES:

- The existing cable, conduit, and junction boxes shall be replaced with NeW cable, conduit and junction boxes.
- THE PROPOSED LED LUMINAIRES SHALL BE INSTALLED PER IDOT DISTRICT 1 STANDARDS (PIER / ABUTMENT MOUNTED LED UNDERPASS LUMINAIRE INSTALLATION DETAILS, STANDARD BE-903).
- 3 The proposed underpass lighting unit locations and spacing shall match the existing. Contractor shall field verify existing locations.

THE PUT THE PU	USER NAME = hbmepw11ics01\$	DESIGNED -	FPE	REVISED - 2 02/18/2025 LNK	STATE OF ILLINOIS		LIGHTING PLAN PROPOSED UNDERPASS	F.A.I. BTE	SECTION	COUNTY TOTAL SHEET	
		DRAWN -	LNK	REVISED -		.	-94 (BISHOP FORD EXPY) AND US 6 (159TH ST)	94	(42-B-11-1) BR, BJR 24	COOK 756 428	
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	JMO 12/6/2024	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE:		CONTRACT NO. 62W			
		PLOT DATE = 3/14/2025	DATE -	12/6/2024	REVISED -		SCALE:	SHEELI OF I SHEELS SIA. TO SIA.		ILLINOIS FED. A	ID PROJECT

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NOT TO SCALE



DESIGNED - FPE REVISED -JSER NAME = hbmepw11ics01\$ **EXISTING ONE LINE DIAGRA** STATE OF ILLINOIS DRAWN - LNK REVISED -I-94 (BISHOP FO OT SCALE = 100,0000 ' / in. CHECKED -JMO REVISED **DEPARTMENT OF TRANSPORTATION** REVISED -SCALE: SHEET 1 OF 3 SHEETS LOT DATE = 12/10/2024 DATE - 12/9/2024

	N CHAP		
1-94		1	
114			79 614
		1.4	-

WALKER ELEC' LAKE E BY [Vayne HAY min DA JOB NAME CALLIPUET STATE OF I DEPARTMENT OF TR SB 5,300 FT. RE

		ONE LINE
		ONE LINE PROPOSED CONTRO
		FINA
		SCALE NONE
***	DESIGNED BY 1.D.O.T.	DATE NOV 199

AM CONTROLLER ORD EXPY)		"H"	F.A.I. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
			94	(42-B-11-1)	BR, BJR	24	СООК	761	428A
							CONTRACT	NO. 62	2W87
ΓS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		



ILLINOIS FED AD PROJECT

L: Defaul AME: \\hl			STATE OF ILLINOIS	EX		IAGRAM DP FORC				
Design Firm Reg. 184.002117 Ph. 773-881-4788 www.abnacorp.com	PLOT SCALE = 100.0000 ' / in.	CHECKED -	JMO	REVISED -	DEPARTMENT OF TRANSPORTATION	L	1-94		F FURL	
ΣE	-	PLOT DATE = 12/10/2024	DATE -	12/9/2024	REVISED -		SCALE:	SHEET 2	OF 3	SHEETS



eoute section county 10121 Smeet 1-94 * COOK 141 68 NOTES: * 704 G I. EXISTING CIRCUITS TOA 2. PROVIDE NEW CIRCUIT BREAKERS. EXTEND # 2 CABLES TO TEMPORARY LIGHTING POLES 3 2-> STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SINGLE LINE DIAGRAM CONTROL CABINET "G" SIBLEY SCALE DRAWN BY DATE CHECKED BY COUNTY TOTAL SHEET F.A.I. OONTROLLED "O"

١N	A CONTROLLER "G"	RTE.	3EC HON		COONTI	SHEETS	NO.
R	D EXPY)	94	(42-B-11-1) BR, BJR	24	СООК	761	428C
	RU EXPT)				CONTRACT	NO. 62	2W87
S	STA. TO STA.		ILLINOIS	FED. A	ID PROJECT		



ABBNAR Deskon RRM REG. 184.00217 Ph. 773-881-4788		USER NAME = hbmepw1lics01\$	DESIGNED - DRAWN -	FPE LNK	REVISED - REVISED -	STATE OF ILLINOIS	LIG		EXISITNO	
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	FPE	REVISED -	DEPARTMENT OF TRANSPORTATION	I–94 (BISHOP				
Ē		PLOT DATE = 1/22/2025	DATE -	01/22/2025	REVISED -		SCALE:	SHEET 1	OF 7	SH



TTS STA. TO STA.

ILLINOIS FED. AID PROJECT


E: Whb	ABBNAA Burr Ridge, IL 60527 Ph. 773-981-4788	USER NAME = hbmepw11ics01\$	DESIGNED -	FPE	REVISED -		LIGH	LIGHTING PLAN PROPOSED NAVIGATION ONE LINE DIADRAM						F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	PLOT SCALE = 100,0000 / in.	DRAWN LNK REVISED - CHECKED FPE REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-94 (BISHOP FORD EXPY)			94	(42-B-11-1) BR, BJR 24	CONTRA	761 428F							
	PLOT DATE = 1/22/2025	DATE -	01/22/2025	REVISED -	SCA	SCALE:	SHEET 3	OF	F 7	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		





efault Nhb	VSER NAME = hbmepw11ics01s	DESIGNED - FPE	REVISED -		LIGHTIN	IG PLAN PROPOSED NAVIGATION CONTROL CABINET	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	Suite 210 Burr Ridge, IL 60527 Ph. 773-881-4788 PLOT SCALE = 100.0000 ' / in.	DRAWN - LNK CHECKED - FPE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-94 (BISHOP FORD EXPY)			(42-B-11-1) BR, BJR 24	COOK CONTRACT	761 428G
BIL	PLOT DATE = 1/22/2025	DATE - 01/22/2025	REVISED -		SCALE:	SHEET 4 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT	

- NAVIGATION LIGHT CONTROL CABINET, STAINLESS STEEL, NEMA 4X 30" WIDE, 56" HIGH, 8" DEEP. PROVIDE 4"X4" GLASS WINDOW FOR PHOTO CONTROL

TION LIGHTS	DOLPHIN LIGHT	
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 ∦	R	С
\downarrow \uparrow	^	Ν
		G



	VIGATION DETAILS-01	INTE.					JULLIS	140.
R	RD EXPY)		(42-B-11-1)	BR, BJR	24	СООК	761	428H
,						CONTRACT	NO. 62	2W87
S	STA. TO STA.			ILLINOIS	FED. A	ID PROJECT		



-1-94 # COOK 318 ** *** 42(VB-10, 12, HB-14, B-11) & 0707.1 HE AERIAL CABLE B- 1/2 , NO. 6 MESSENGER CARLE EXTEND TO C.E.CO POLE

- 3- 1/2 NO. 6,2 "CONDUIT . ROSTEN TO SERVICE POLE ON 7:FOOT CENTERS

AGATION LIGHT SEE WIRUNG DIAGRAM

WALKER ELECTRIC

P.O. BOX 545 LAKE BLUFF, IL 60 □ APPROVED DISAPPROV D APP'D AS NOTED BY Danne DAT JOB NAME CALUMET ZX JOB NUMBER REFERENCE STATE OF ILLINOIS DEPARTMENT OF TRANSPORT. EA.1.-94 NAVIGATION LIGHTING

DETAILS

DRAWK BY BATE NOV. 1991 CHECKED .

1	VIGATION	IGATION DETAILS-02		SEC	TION		COUNTY		TOTAL SHEETS	SHEET NO.
RD EXPY)		94	(42-B-11-1)	BR, BJR	24	СООК		761	428I	
	,						CONTRA	ACT	NO. 62	W87
i	STA.	TO STA.			ILLINOIS	FED. AI	ID PROJECT			
	-									

SCALE NONE



745 McClintock Drive	USER NAME = hbmepw11ics01\$	DESIGNED - FPE	REVISED -		LIGH	ITING PLAN EXISITNG NAVIGATION DETAILS-03	F.A.I. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
ABBNAR DESKN FIRM REG. 184.002117 Ph. T72.7861-4788 www.abnacorp.com		DRAWN - LNK	REVISED -				94	(42-B-11-1) BR, BJR 24	СООК 761 428Ј
	PLOT SCALE = 100.0000 ' / in. PLOT DATE = 1/22/2025	CHECKED - FPE DATE - 01/22/2025	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET 7 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. AID	CONTRACT NO. 62W87
)	REG. 184.002117 REG. 184.002117	Suite 210 Burr Ridge, IL 60527 Ph. 773-881-4788	NAA Suite 210 DRAWN - LNK Bur Ridge, IL 6027 PLOT SCALE = 100,0000 ' / in. CHECKED - FPE	NAA Suite 210 DRAWN LNK REVISED Bur Ridge, L. 6052 PLOT SCALE = 100.0000 / in. CHECKED FPE REVISED	NA suite 210 Bur Ridge, 16.0027 PLUT Scale = 100.0000 / in. CHECKED FPE REVISED DEPARTMENT OF TRANSPORTATION	NA State 20 Bur Ndge, L. 6052 PLOT SCALE = 100.0000 / in. CHECKED FPE REVISED DEPARTMENT OF TRANSPORTATION	NA SING 210 Bur Ridge, L. 6052 PLOT SCALE = 100.0000 / in. CHECKED FPE REVISED DEPARTMENT OF TRANSPORTATION I-94 (BISHOP FORD EXPY)	NA SING 210 Burr Ridge L 6052 PLOT SCALE = 100.0000 / in. CHECKED FPE REVISED 94 I-94 (BISHOP FORD EXPY)	NA STATE OF ILLINOIS Bur Nodes L 6052 PLOT SCALE = 100,0000 / in. CHECKED - FPE REVISED - DEPARTMENT OF TRANSPORTATION



CONTRACT NO. 62W87

SHEETS STA.

TO STA.

efault Wht		USER NAME = hbmepw11ics01\$	DESIGNED -	FPE	REVISED - 🖉 02/18/2025 LNK		E)	KISTING ON	
AME	ARNIA ^{745 McClintock Drive} Suite 210 Burr Ridge, IL 60527		DRAWN -	LNK	REVISED -	STATE OF ILLINOIS			
DDEL	Design FIRM REG. 184.002117 Www.abnacorp.com	PLOT SCALE = 100.0000 / in.	CHECKED -	JMO	REVISED -	DEPARTMENT OF TRANSPORTATION		I	94 (BISHO
M	www.abiacorp.com	PLOT DATE = 3/14/2025	DATE -	02/17/2025	REVISED -		SCALE:	SHEET	OF



REVISED -

REVISED -

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DRAWN - ADS

CHECKED - JMG

DATE - 12/9/2024

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

12/10/2024 6:19:58 AM

ENGINEERING GROUP, LLC

PLOT SCALE =

PLOT DATE

PR CL SIGN STRUCTURE POST					
IGN STRUCTURES - SIGN PANEL ELEVATIONS	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SIGN 7 (1C016I094R070.7) SHEET 1 OF 2 SHEETS	94	(42-B-11-1) BR, BJR 24	COOK CONTRAC	761	429



efaul		USER NAME = hbmepw11ics01\$	DESIGNED - ADS	REVISED -		OVERHEAD SIGN STRUCTURES - S
₫ ₩			DRAWN - ADS	REVISED -	STATE OF ILLINOIS	SIGN 8 (1S0161094
		PLOT SCALE = 10.0000 ' / in.	CHECKED - JMG	REVISED -	DEPARTMENT OF TRANSPORTATION	21010 8 (120101034
8 E L	ENGINEERING GROUP, LLC	PLOT DATE = 12/10/2024	DATE - 12/9/2024	REVISED -		SHEET 2 OF 2

12/10/2024 6:20:13 AM

- SIG	- SIGN PANEL ELEVATIONS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
094R071.2)		94	(42-B-11-1)	BR, BJR	24	СООК	761	430
5541	(011.2)					CONTRACT	NO. 62	W87
2	SHEETS	ILLINOIS FED. AID PROJECT						



12.0" Radius, 2.0" Border, White on Green; "EAST", E Mod 2K; "Dolton Ave", E Mod 2K; Standard Arrow Custom 29.3" X 18.3" 45°;
 E Kol ; E Mod 21;
 E Mod 21;
 E Mod 21;

 Table of letter and object lefts
 E
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 70.8
 79.6
 90.4
 94.2
 116.6
 131.8
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 E A S T **7** 51.7 64.3 78.2 89.8 140.2
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 33.1
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 50.9
 59.9
 71.7
 95.7
 113.6
 125.3

STRUCTURE	1C016I094R070.7
WIDTH x HEIGHT	15'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE - ZZ
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE - ZZ
	COLOR: WHITE

SIGN_7_STA_481 ± 82.03 – PROPOSED_SIGN_TRUSS_MOUNT

1C016I094R070.7



DЛЛ	USER NAME = hbmepw11ics01\$	DESIGNED - ADS	REVISED -	STATE OF ILLINOIS	OVERHEAD SIGN STRUCTURES - SIGN PANEL DETAILS	F.A.I. RTE	SECTION	COUNTY TOTAL SHEET	AL SHEET TS NO.
KIVI		DRAWN - ADS	REVISED -		SIGN 7 (1C016I094R070.7)	94	(42-B-11-1) BR, BJR 24	COOK 761	1 431
	PLOT SCALE = 10.0000 ' / in. PLOT DATE = 12/10/2024	CHECKED - JMG DATE - 12/9/2024	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 6	62W87
and GROOF, LLC	PLOT DATE = 12/10/2024	DATE = 12/9/2024	REVISED -		SHEET OF 2 SHEETS		ILLINOIS FED. AIL	D PROJECT	

12/10/2024 6:19:56 AM





STRUCTURE	1S016I094R071.1
WIDTH x HEIGHT	13'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE - ZZ
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE - ZZ
	COLOR: WHITE

STRUCTURE	1S016I094R071.1
WIDTH x HEIGHT	13'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE - ZZ
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE - ZZ
	COLOR: WHITE

STRUCTURE	1S016I094R071.1
WIDTH x HEIGHT	15'-6" × 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE - ZZ
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE - ZZ
	COLOR: WHITE

SIGN_2_STA_508 + 94.88 - PROPOSED_SIGN_TRUSS_MOUNT

STRUCTURE NO. 1S016I094R071.1





12.0" Radius, 2.0" Border, White on Green

12.0" Radius, 2.0" Border, White on Green,

"WEST", E Mod 2K, "Sibley Blvd", E Mod 2K, Standard Arrow Custom 29.3" X 18.3" 45°;



	F.A.I. RTE			COUNTY	TOTAL SHEETS	SHEET NO.	
094R071.2)		(42-B-11-1) BR, BJR 24		24	COOK	761	432
J94RU71.2)					CONTRACT	NO. 62\	N87
2 SHEETS			ILLINOIS	FED. AI	D PROJECT		



STATE OF ILLINOIS DRAWN - JM REVISED -**ALUMINUM TRUSS 8** PLOT SCALE = CHECKED - MI, LAE REVISED **DEPARTMENT OF TRANSPORTATION** SHEET OHSS1-01 OF O PLOT DATE = DATE - 12/9/2024 REVISED

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum)

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP")

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include

Existing sign foundation shall be removed to a depth of 1'-0" below existing grade. Cost included with Remove Concrete Foundation - Overhead.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Overhead Sign Structure - Cantilever, Type I-C-A (24" X 4'-6")	Foot	23
Drilled Shaft Concrete Foundations	Cu Yd	5.2
Remove Overhead Sign Structure - Cantilever	Each	1
Remove Concrete Foundation - Overhead	Each	1

- GEN. PLAN & ELEVATION	F.A.I. RTE	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
STEEL POST	94	(42-B-11-1)	BR, BJR	24	СООК	761	433
SILLE I USI					CONTRACT	NO. 62	W87
ISS1-09SHEETS			ILLINOIS	FED.	AID PROJECT		



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GENERAL NOTES

Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)

Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6

STRUCTURE	F.A.I. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
DEVICE	94	(42-B-11-1)	BR, BJR	24	СООК	761	435
					CONTRACT	NO. 62	W87
DHSS1-09SHEETS	ILLINOIS FED. AID PROJECT						



12/6/2024 8:48:00 PM SHEET OHSS1-04 OF O

RES - JUNCTURE DETAILS	F.A.I. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
& STEEL POST	94	(42-B-11-1)	BR, BJR	24	СООК	761	436
					CONTRACT	NO. 62	W87
DHSS1-09SHEETS	ILLINOIS FED. AID PROJECT						



RES - TYPE I-C-A TRUSS	F.A.I. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
NUM TRUSS & STEEL POST	94	(42-B-11-1)	BR, BJR	24	СООК	761	437
					CONTRACT	NO. 62	W87
DHSS1-09SHEETS			ILLINOIS	FED.	AID PROJECT		





 $\frac{SECTION \ A-A}{TGL = L - (\frac{Post \ 0.D.}{2} + 6'')}$

OSC-A-6-NW	5-15-2023
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efau	TTDIA	USER NAME =	DESIGNED -	JMI	REVISED -		CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY		SECTION	COUNTY	TOTAL SHEET SHEETS NO.
AME			DRAWN -	JMI			DETAILS - ALUMINUM TRUSS & STEEL POST	94	(42-B-11-1) BR, BJR 24	4 соок	761 438
		PLOT SCALE =	CHECKED -	CKED MI, LAB REVISED - DEPARTMENT OF TRANSPORTATION DETAILS - ALUMINUM TRUSS & STEEL PUST				CONTRAC	CT NO. 62W87		
EILE MO	ENGINEERING GROUP, LLC	PLOT DATE =	DATE -	12/9/2024	REVISED -		SHEET OHSS1-06 OF OHSS1-09SHEETS		ILLINOIS F	ED. AID PROJECT	
12	6/2024 8:48:27 PM										

BRACKET TABLE

WF(A-N)4x1.79 ASTM B308, Alloy 6061-T6						
Sign \	Number					
Greater Than	Less Than or Equal To	Brackets Required				
	8'-0''	2				
8'-0''	14'-0''	3				
14'-0''	20'-0"	4				
20'-0"	26'-0"	5				
26'-0"	6					

	Sign #	Structure Number	Station	TGL
ĺ	7	1C016I094R070.7	481+82.03	21' - 10"

- * Space sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
 - f = 12'' maximum, 4" minimum (End of sign to Q of nearest h = 6'-0" maximum (@ to @ sign support brackets, WF(A-N)4x1.79
- ** Use and location of grating splices are optional, based on lengths needed and material availability.

For details of sign placement, sign brackets, truss gratings, grating splices, and Section B–B, see Base Sheet OSC–A–7–NW. Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhaed Sign Structure Cantilever. Truss grating dimensions are nominal and may vary (width $\frac{1}{2}$ "±,

depth $\frac{1}{2}$ "±) based on available standard widths.



Main Bearing Bars (MBB) shall be $\frac{3}{16}$ " x $1\frac{1}{2}$ " on $1\frac{3}{16}$ " centers and conform to ASTM B211 Alloy 6061-T6.

Cross bars (CB) shall be $\frac{3}{16}$ " x $1\frac{1}{2}$ " on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of $1\frac{1}{2}$ ", spaced on $1\frac{3}{16}$ " centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Sign #	Structure Number	Station	A	С
7	1C016I094R070.7	481+82.03	5 1/2"	4' - 6''



DETAIL T

(Continuous Truss grating)

OSC-A-7-NW

5-15-2023

TTDN	USER NAME =	DESIGNED - JMI	REVISED -		CANTILEVER SIGN STRUCTURES - WALKWAY DETAILS	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
		DRAWN - JMI	REVISED -	STATE OF ILLINOIS	ALUMINUM TRUSS & STEEL POST	94	(42-B-11-1) BR, BJR 24	СООК	761 439	
	PLOT SCALE =	CHECKED - MI, LAB	REVISED -	DEPARTMENT OF TRANSPORTATION		CONTRACT NO. 62W8				
ENGINEERING GROUP, LLC	PLOT DATE =	DATE - 12/9/2024	REVISED -		SHEET OHSS1-07 OF OHSS1-09SHEETS		ILLINOIS FED. AID PROJECT			
(2024 0.40.22 DM										

- (1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- (2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- (3) Tube to grating gap may vary from 0 to $\frac{1}{2}$, max. to align walkway, allow for camber, etc.





Truss

Туре

I-C-A

Post Base

Sheet

0SC-A-4

II-C-A OSC-A-5

II-C-A OSC-A-5

NOTES:

The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs. If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation withou the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

'B''	III-C-A	0SC-A-5	35	170	3.5	19.0	12	2	30
1	III-C-A	0SC-A-5	35	250	3.5	22.5	12	2	30
	III-C-A	0SC-A-5	35	400	3.5	26.5	12	2	30
	III-C-A	0SC-A-5	40	400	3.5	32.0	12	2	30
out									
ete									

Shaft

(in)

3.0

3.5

3.5

iameter

"B"

Depth

(ft)

16.0

17.0

21.5

Anchor Rods

No.

8

12

12

Diameter

(in)

2

Anchor Rod

Circle Diamete

22

30

30

(in)

Maximum

Total Sign Area

(sq ft)

170

170

340

Maximum

Cantilever

Length (ft)

25

30

30

Sign #	Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	В	F	Со
7	1C016I094R070.7	481+82.03	I-C-A	3' - 0"	602.81	583.31	1.7 tsf	3' - 6"	16' - 0"	19' - 6"	

-9	5-15-2023

5-15-2023		<u></u>			I				
USER NAME =	DESIGNED - JMI	REVISED -				CAN			
	DRAWN - JMI	REVISED -		STATE OF ILLINOIS					
PLOT SCALE =	CHECKED - MI, LAB	REVISED -	DEPARTMENT OF TRANSPORTATION		TATION		ALUMI		32 & 3
PLOT DATE =	DATE - 12/9/2024	REVISED -				1	SH	HEET OHSS1-08	OF OHSS
	USER NAME = PLOT SCALE =	USER NAME = DESIGNED - JMI DRAWN - JMI PLOT SCALE = CHECKED - MI, LAB	USER NAME = DESIGNED - JMI REVISED - DRAWN - JMI REVISED - PLOT SCALE = CHECKED - MI, LAB REVISED -	USER NAME = DESIGNED - JMI REVISED - DRAWN - JMI REVISED - DRAWN PLOT SCALE = CHECKED - MI, LAB REVISED - DEPA	USER NAME = DESIGNED - JMI REVISED - DRAWN - JMI REVISED - PLOT SCALE = CHECKED - MI, LAB REVISED -	USER NAME = DESIGNED - JMI REVISED - DRAWN - JMI REVISED - STATE OF ILLINOIS PLOT SCALE = CHECKED - MI, LAB REVISED -	5-15-2023 USER NAME = DESIGNED - JMI REVISED - DRAWN - JMI REVISED - PLOT SCALE = CHECKED - MI, LAB REVISED - DEPARTMENT OF TRANSPORTATION	5-15-2023 USER NAME = DESIGNED - JMI REVISED - MI REVISED - CANTILEVER S PLOT SCALE = CHECKED - MI, LAB REVISED - DEPARTMENT OF TRANSPORTATION ALUMI	USER NAME = DESIGNED - JMI REVISED - CANTILEVER SIGN STRUCT DRAWN - JMI REVISED - STATE OF ILLINOIS ALUMINUM TRUS PLOT SCALE = CHECKED - MI, LAB REVISED - DEPARTMENT OF TRANSPORTATION ALUMINUM TRUS



PAIRTE 94 (H94 Bishop Ford Expy) DESCRIPTION Overhead Sign 7 LOGGED BY KL ECTION 2019-180-RSAT LOCATION NE 1/4, SEC, 11, TWP, 36N, RNG, 25E, 3 ^d PM Auto DUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto TRUCT, NO, Sign 7 B U N/A ft B U S Station -481+82.03 P C S S S S S Groundwater Elev. N/A ft H S Qu T W Qu T T S Groundwater Elev. N/A ft H S Qu T W Qu T T T S Qu S Groundwater Elev. N/A ft H S Qu S Groundwater Elev. N/A ft H S Qu S Gu S Gu Gu Gu Gu Gu Gu Gu Gu <th>of Divisio Chicag</th> <th>nois Depar Transporta o THighways o Testing Laboratory, Inc</th> <th>ation</th> <th>١</th> <th></th> <th>SC</th> <th>IL BORING LOG</th> <th></th> <th>Date</th> <th>10/</th> <th>10/24</th>	of Divisio Chicag	nois Depar Transporta o THighways o Testing Laboratory, Inc	ation	١		SC	IL BORING LOG		Date	10/	10/24
DUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto TRUCT, NO. Sign 7 P B U N Stratee Water Elev. N/A ft P B U C Station 481+92.03 P T W Stratee Water Elev. N/A ft P B U C C N/A ft W Qu V Stratee Water Elev. N/A ft W Qu V First Encounter N/A ft W Qu V N/A ft W Qu Coundwater Elev. First Encounter N/A ft W Qu Coundwater Elev. N/A ft W Qu Cu Sitt for Very Stiff Gray, Moist Sitt for Very Stiff Sitt for Very Stiff Sitt for Very Stiff Sit	FAI RTE	94 (I-94 Bishop	DESCF	RIPTION	N		Overhead Sign 7	LOGG	ED BY	′ <u> </u>	KL
Control Sign 7 Ratation Dec 481+52.03 481+52.03 Dec F B L U C M S Surface Hev. N/A Stream Bed Elev. N/A N/A ft ft ft ft Stream Bed Elev. Dec N/A N/A B ft ft ft ft ft ft ft B C C C S C Stream Bed Elev. N/A N/A ft ft ft ft ft ft ft ft Dec Stream Bed Elev. Dec N/A B ft ft ft ft ft Dec Stream Bed Elev. Dec N/A B ft ft ft U Stream Bed Elev. N/A ft ft ft ft ft ft Dec Stream Bed Elev. Dec Stream Bed Elev.		2019-180-RS&T				NE 1/4	, SEC. 11, TWP. 36N, RNG. 25E, 3 rd P	Λ			
Bittinion ABI+C2_03 F L C O S Image Transmet Elev. Image Transmet Elev. Image Transmet Elev. T W O S DRING NO. OSB-7.1 H S Ou T Groundwater Elev. First Encounter None ft H S Ou T W Ou T W S Ou T W Ou T T W Ou Ou Ou S S S T T Ou Ou S S S S T T T S S S S S S S S S S S S		ook DRILL	ING MI	ethod		Hol	low Stem Auger HAMMER TY	РЕ	A	uto	
DRING NO. OBSP.7.1 (482+25) T H W S Qu U T T Groundwater Elev.: First Encounter Upon Completion MA ft T NAA ft W H Qu S T U W S Qu U T First Encounter Upon Completion Gray, Moist T NAA ft W H Qu S T U W S Qu U T U W S Qu U T U W S Qu U T First Encounter Upon Completion Gray, Moist T NAA ft T H W S Qu U T U W M ft Qu U T U W M ft Qu U T U W M ft Qu U W U Qu U M U W M ft Qu U M U Qu U M U M M ft M U Qu U M U	STRUCT. NO Station	Sign 7 481+82.03	E	L	С			E	L	С	M
Ground Surface Elev. 597.00 ft (ft) (ft)<	BORING NO	482+55	T	w			First Encounter None ft	Т Н	w		I S T
Town and Gray, Moist LL: SILTY SAND -			ft (ft)) (/6")	(tsf)	(%)			(/6'')	(tsf)	(%)
595.00 13 8.8 15 15 6 8 15 3 2.0 13.5 6 8 3 2.0 13.5 - 6 8 -3 - - - - 2 - -3 2.0 13.5 - 5 1.3 2 -3 2.0 13.5 - - - 2 - -3 2 - - - - - - 2 - - 5 1.7 2 - - 5 5 1.3 2 - - 5 5 1.7 2 - - 3 - - - 3 - - - 3 - - - 3 - - - 3 - - - - - - - - - - - - <td>3 inches of Topsoil Brown and Gray, M FILL: SILTY SAND</td> <td></td> <td>.75</td> <td></td> <td></td> <td></td> <td>Gray, Moist SILTY CLAY trace gravel (CL/ML)</td> <td></td> <td>3</td> <td></td> <td></td>	3 inches of Topsoil Brown and Gray, M FILL: SILTY SAND		.75				Gray, Moist SILTY CLAY trace gravel (CL/ML)		3		
-3 -3 -2 - - - - 5 1.3 2 -3 2.0 13.5 - 5 1.3 2 - 5 1.3 2 - 5 1.3 2 - 5 1.3 2 - 5 1.3 2 - 5 1.3 2 - 5 1.3 2 - 5 1.7 2 - 5 1.7 2 - 5 1.7 2 - 7 B - - 3 - - 3 - - 3 - - 3 - - 3 - - 3 - - 3 - - 3 - - - 3 - - - 3 - - - - - - - - - - - - - - - - <	Brown and Gray, M		.00			8.8					14.8
3 2.0 13.5 -5 3 P -5 3 12.1 -6 -7 B -7 1.9 14.4 -10 4 B -7 1.9 14.4 -10 4 B -7 1.9 1.4 -10 4 B -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 </td <td>FILL: SILTY CLÁY</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	FILL: SILTY CLÁY			-							
					20	12 5				1 2	20.5
rown, Moist 2						13.5		25			20.5
LL: LOAM 3 3 12.1 4		591	.00	-				_			
4 - 7 B rown and Gray, Moist - 4 - 1 1.9 14.4 -10 4 B -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -1	Brown, Moist FILL: LOAM		_			12.1		_		1.7	20.9
rown and Gray, Moist -								_		1	
interference interference <td< td=""><td>Brown and Gray, M</td><td></td><td>.00</td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td></td<>	Brown and Gray, M		.00						2		
	ILL. OILTT OLAT			7		14.4			6	1	21.0
585.00 7 9.2 ery Loose 4 - rown, Moist - - ANDY LOAM (SM) - - 583.00 1 - 583.00 1 - 583.00 1 - 583.00 1 - 583.00 1 - 583.00 1 - 1 1.5 21.5 ray, Moist - - 581.00 - - 6ry Loose 0 - ray, Wet 580.00 0 22.8 2 - - - 1ff to Very Stiff - - - ray, Moist - - - LTY CLAY trace gravel (CL/ML) - - - - - - - - - - - - - - - - - - - - - - - - - <td></td> <td></td> <td>1</td> <td>0 4</td> <td>В</td> <td></td> <td></td> <td>30</td> <td>6</td> <td>В</td> <td></td>			1	0 4	В			30	6	В	
585.00 7 9.2 ery Loose 4 - rown, Moist - - ANDY LOAM (SM) - - 583.00 1 - 583.00 1 - 583.00 1 - 583.00 1 - 583.00 1 - 583.00 1 - 1 1.5 21.5 ray, Moist - - 581.00 - - 6ry Loose 0 - ray, Wet 580.00 0 22.8 2 - - - 1ff to Very Stiff - - - ray, Moist - - - LTY CLAY trace gravel (CL/ML) - - - - - - - - - - - - - - - - - - - - - - - - - <td></td> <td></td> <td></td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				6							
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583.00 1	Brown, Moist)	_								
ray, Moist LTY CLAY (CL/ML) 			.00	_							-
581.00 0 581.00 0 2 2.8 2 2.8 2 2.8 2 2.8 2 2.8 2 2.8 2 2.8 2 2.8 2 2.8 2 2.8 2 2.8 2 2.8 2 2.8 2 2.9 2 2.9 2 2.9 2 2.9 2 2.9 2 2.9 2 2.9 2 2.9 2 2.9 2 2.9 2 2.9 3 1.7 2.9 4 8 2.1 2.9 4 3 1.7 2.9 4 3 557.00 -4 9	Stiff Gray, Moist		-1	1		21.5		-35		1	20.4
ery Loose 0	SILTY CLAY (CL/M		_	-							
DAM (SC-SM) 2 2 iff to Very Stiff 2 - ray, Moist - - LTY CLAY trace gravel (CL/ML) - 2 - - 4 - 3 1.7 - - 4 - - 4	/ery Loose Gray, Wet		_	-		22.8					
ray, Moist LTY CLAY trace gravel (CL/ML) - 2 2	LOAM (SC-SM)		.00			22.0					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Gray, Moist	gravel (CL/ML)									
- <u></u>		,			1.7	23.0			-	2.1	19.0
			-2	0 4			55 End of Boring	7.00 -40	9	1	
SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)							BE	S, from [•]	37 (R	ev. 8	3-9

TTDA	USER NAME =	DESIGNED - JMI	REVISED -		CANTILEVER SIGN STRUCTURES	F.A.I. RTE	SECTION	COUNTY TO SHE	TAL SHEET EETS NO.	
		DRAWN - JMI	REVISED -	STATE OF ILLINOIS	BORING LOGS	94	(42-B-11-1) BR, BJR 24	COOK 7	61 441	
	PLOT SCALE =	CHECKED - MI, LAB	REVISED	DEPARTMENT OF TRANSPORTATION	BORING LOGS	CONTRACT NO. 62W87				
ENGINEERING GROUP, LLC	PLOT DATE =	DATE - 12/9/2024	REVISED -		SHEET OHSS1-09 OF OHSS1-09SHEETS		ILLINOIS FED.	AID PROJECT		
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GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:

Field Units f'c = 3,500 p.s.i.fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Allovs as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

s, ts the d	TOTA	L BI	LL OF MATER	R <i>I /</i>	4 <u>L</u>			
	ITE	М			UNIT	•	TOTAL	
vill Span,	Overhead Sign Structure (4'-0" X 4'-6")	e – Sj	ban, Type I-A	F	oot	100		
,,	Drilled Shaft Concrete	Found	lations	С	u Yd	31.2		
	Remove Overhead Sign S	Struct	ure – Span	E	ach		1	
	Remove Concrete Found	ation	– Overhead	E	ach		1	
GEN.	PLAN & ELEVATION	F.A.I. RTE	SECTION	COUNTY		,	TOTAL SHEETS	SHEET NO.
TEEL	SUPPORTS	94	(42-B-11-1) BR, BJR 2	4	СООК		761	442
					CONTRA	٩СТ	NO 621	N87

ILLINOIS FED. AID PROJECT



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<u>NOTES:</u>

- 1. Stations that are shown are with respect to the I-94 centerline.
- 2. The Contractor shall locate Q and top of existing storm sewer in the vicinity of the proposed foundation prior to drilling or pouring the proposed foundation. The Contractor shall inform the Engineer of any discrepancy between the plans and existing conditions.
- 3. 4'-2" concrete barrier double face 44" high. See standard 637006.

LEGEND

>	Ex Storm Sewer
0	Ex Catch Basin
Ø	Ex Manhole
\$	Soil Boring

Sign 8 Structure No. 1S016I094R071.1

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
(42-B-11-1) BR, BJR 24	СООК	761	443		
	CONTRACT	CONTRACT NO. 62W87			
ILLINOIS FED.	AID PROJECT				
	(42-B-11-1) BR, BJR 24	(42-B-11-1) BR, BJR 24 COOK CONTRACT	SECTION COUNTY SHEETS (42-B-11-1) BR, BJR 24 COOK 761 CONTRACT NO. 62		





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ENGINEERING GROU

PLOT DATE =

DATE

- 12/9/2024

REVISED -

SHEET OHSS2-04 OF O

RES - ALUMINUM TRUSS	F.A.I. RTE	SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHEET NO.
PES I-A. II-A AND III-A	94	(42-B-11-1)	BR, BJR	24	СООК	761	445
					CONTRACT	F NO.62	N87
DHSS2-13SHEETS			ILLINOIS	FED.	AID PROJECT		



ENG 12/9/2024

51712	5 15 2025									
	USER NAME =	DESIGNED - JMI	REVISED -		OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEE	.T
НКМ		DRAWN - JMI	REVISED -	STATE OF ILLINOIS		94	(42-B-11-1) BR, BJR 24	соок	761 446	, –
	PLOT SCALE =	CHECKED - MI, LAB	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR TRUSS TYPES I-A, II-A AND III-A		CONTRACT NO.62W87			1
NGINEERING GROUP, LLC	PLOT DATE =	DATE - 12/9/2024	REVISED -		SHEET OHSS2-05 OF OHSS2-13 SHEETS		ILLINOIS FED.	AID PROJECT		
024 6:38:50 PM										_

amber at		Splicing Flange								
idspan	Bol	ts	Weld S	izes	А	В				
	No./Splice	Dia.	W	W 1		_				
3 1/4"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"				



ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651 *To fit 0.D. of Chord with maximum gap of $\frac{1}{16''}$.



12/9/2024 6:39:36 PM

STRUCTURE	F.A.I. RTE	SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHEET NO.
DEVICE	94	(42-B-11-1)	BR, BJR	24	СООК	761	447
DEVICE					CONTRACT	NO. 62	W87
DHSS2-13SHEETS			ILLINOIS	FED.	AID PROJECT		



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PLOT DATE =

DATE

- 12/9/2024

REVISED -

SHEET OHSS2-07 OF O

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.

Load combinations checked include deadload plus: a) 100% wind normal to sign, 20% parallel to sign

b) 60% wind normal to sign, 30% parallel to sign

- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- Steel pipe, plate, carbon steel handhole covers and rolled 3 sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet 0S-A-1.
- (4) See General Notes for fasteners.
- (5) Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- (6) "H" based on 15'-0" or actual sign height, whichever is greater.

Station	Sup	port	Truss Type	Pipe Wall Thickness	^H 6	A	
	Left	Right					
8+94.88	Х		Type I A	0.279	25' - 7"	19' - 0"	
8+94.88		Х	Type I-A	0.279	28' - 1 1/8"	21' - 6 1/8"	

STRUCTURES	F.A.I. RTE	SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHEET NO.
ALUMINUM TRUSS	94	(42-B-11-1)	BR, BJR	24	СООК	761	448
					CONTRACT	NO. 62	W87
OHSS2-13SHEETS			ILLINOIS	FED.	AID PROJECT		



ENGINEERING GROUP, LLC

PLOT DATE =

DATE - 12/9/2024

REVISED -

ILLINOIS FED. AID PROJECT





SECTION A-A Place all sign brackets as close to panel points as practical.



efau	TTDA	USER NAME =	DESIGNED - JMI	REVISED -		OVERHEAD SIGN STRUCTURES	F.A.I. SECTION	COUNTY TOTAL SHEET
D D			DRAWN - JMI	REVISED -	STATE OF ILLINOIS		94 (42-B-11-1) BR, BJR 24	СООК 761 450
N DEL		PLOT SCALE =	CHECKED - MI, LAB	REVISED -	DEPARTMENT OF TRANSPORTATION	ALUMINUM WALKWAY DETAILS		CONTRACT NO.62W87
UM01	See ENGINEERING GROUP, LLC PLOT DATE =		DATE - 12/9/2024	REVISED -		SHEET OHSS2-09 OF OHSS2-13SHEETS	ILLINOIS FED	D. AID PROJECT
12	9/2024 6:39:37 PM							

BRACKET TABLE

WF(A-N)4x1.79 ASTM B308, Alloy 6061-T6										
Sign \	Number									
Greater Than	Less Than or Equal To	Brackets Required								
	8'-0"	2								
8'-0"	14'-0"	3								
14'-0''	20'-0"	4								
20'-0"	26'-0"	5								
26'-0''	32'-0"	6								

* Space sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to Q of nearest bracket) h = 6'-0" maximum (Q to Q sign support brackets, WF(A-N)4x1.7

Notes:

For Detail T and Section B-B, see Base Sheet OS-A-10-NW. Truss grating to facilitate inspection shall run full length (center to center of support frames) 12"± on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure". Truss Grating width dimensions are nominal and may vary $\frac{1}{2}$ "± based on available standard widths.



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- (1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- (2) Stainless steel shims shall be placed as shown in Detail T <u>if needed</u> to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- (3) Tube to grating gap may vary from 0 to ½", max. to align walkway, allow for camber, etc.



STRUCTURES	F.A.I. RTE	SEC	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
WAY DETAILS	94	(42-B-11-1)	BR, BJR	24	СООК	761	451
					CONTRACT	NO. 62	W87
OHSS2-13SHEETS			ILLINOIS	FED.	AID PROJECT		



054-F3 5-15-2023

Defau E: ∥I		USER NAME =	DESIGNED -	JMI	REVISED -		OVERHEAD SIGN STRUCTURES	F.A.I. RTE	SECTION	COUNTY TOTA	AL SHEET
AM L			DRAWN	JMI	REVISED -	STATE OF ILLINOIS	DRILLED SHAFT DETAILS	94	(42-B-11-1) BR, BJR 24	COOK 76	51 452
		PLOT SCALE =		ED MI, LAB REVISED DEPARTMENT OF TRANSPORTATION				CONTRACT NO.	.62W87		
₩ N N N N N N N N N N N N N N N N N N N	ENGINEERING GROUP, LLC	PLOT DATE =	DATE - '	12/9/2024	REVISED -		SHEET OHSS2-11 OF OHSS2-13 SHEETS		ILLINOIS FE	D. AID PROJECT	

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BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape						
v4(E)	24	#9	F less 5"							
#4 bar spiral (E) - see Side Elevation										

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the

the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

Permanent metal forms or other shielding may not be left in place below that elevation

Backfill shall be placed per Article 502 of Standard Specification and prior to erection

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included

		Class DS Concrete (Cu. Yds.)				
F	Elevation Top	Elevation Bottom	А	В	F	(eu. 145.)
-	594.05	570.55	3' - 6"	20' - 0"	23' - 6"	12.4



12/9/2024

Bar	Number	Size	Length	Shape		
h(E)	14	#4	M less 4"			
s(E)	Varies	#5	Varies		1	6" Ø and 8" Ø
v(E)	16	#9	F less 0'-5"			Support Frame
v(E)	24	#9	F less 0'-5"		-	10" Ø and 12" Ø
						Support Frame
#4(E) bar spir	al. See	Side Elevatior	ו	J	

on			Right F	Right Foundation					
В	F	Elevation Top	Elevation Bottom	В	F	(Cu. Yds.)			
' - 0''	25' - 2"	-	-	-	-	18.8			

STRUCTURES	F.A.I. RTE	SECT		COUNTY	TOTAL SHEETS	SHEET NO.	
NDATION DETAILS	94	(42-B-11-1) B	BR, BJR	24	СООК	761	453
NDATION DETAILS					CONTRACT	NO. 62	W87
HSS2-13SHEETS		1	ILLINOIS	FED.	AID PROJECT		

Division of Highways Chicago Testing Laboratory, I					DIL BORING LOG		Date	10/	10/24	Illinois Depa of Transport Division of Highways Chicago Testing Laboratory, Inc	alioi	•
FAI RTE 94 (I-94 Bishop)		I		Overhead Sign 8	_OGG				FAI RTE 94 (I-94 Bishop ROUTE Ford Expy)	DESCF	NPTIC
ECTION 2019-180-RS&1	<u>r </u>	LOCAT		NE 1/4	4, SEC. 11, TWP. 36N, RNG. 25E, 3 rd PM					SECTION2019-180-RS&T		LOC
OUNTY <u>Cook</u> DR		THOD		Hol	low Stem Auger HAMMER TYPE		A	uto		COUNTY Cook DRIL	LING ME	ETHO
Sign 8 Station 508+94.88	D E P	L	U C S	M O I	Surface Water Elev. <u>N/A</u> ft Stream Bed Elev. <u>N/A</u> ft	D E P	B L O	U C S	M O I	STRUCT. NO. Sign 8 Station 508+94.88	D E P	L
ORING NO. OSB-8-1 tation 508+95 offset 65.00ft RT	H	W S	Qu	S T	Groundwater Elev.: First Encounter584.0ft _ Upon CompletionNoneft	H	W S	Qu	S T	BORING NO. OSB-8-2 Station 508+95 Offset 10.00ft LT	H H	W S
Fround Surface Elev. 592.00 inches of Topsoil	ft (ft)	(/6")	(tsf)	(%)	After <u>N/A</u> Hrs. <u>N/A</u> ft Stiff to Very Stiff	(ft)	(/6")	(tsf)	(%)	Ground Surface Elev. 593.00 5 inches of Asphalt Pavement 59	. ft (ft) 2.58	(/6
	591.00	5			Gray, Moist SILTY CLAY trace gravel (CL/ML)		3			10 inches of Concrete Pavement 59	<u>1.75</u>	5
own, Moist NDY LOAM (SM)		4		17.3	(continued)		4	1.3 B	21.6	Loose to Medium Dense Brown and Gray, Wet		9
		-						В		SANDY LOAM (SM)		
		3					3				9.00	5
	-5	6 5 6		21.6		-25	5 5	1.3 B	20.2	Loose to Medium Dense Gray, Wet SANDY LOAM (SM)		5 5
	586.00	-					-				_	_
ry Loose ry, Wet	_	5 4		24.9		_	3 4	1.7	20.6		_	6 9
ÁM (SC-SM)		1				_	5	В		59	5.00 ▼	7
	<u> </u>	- - - 0				_	3			Very Loose Gray, Wet	<u></u>	1
	_	0		67.8		_	5	1.3 B	19.5	LOĂM (SC-SM)	_	
	10					30		В				<u>) '</u>
		0					-					1
ff to Very Stiff	580.00	1		22.1		_						1 1
ay, Moist TY CLAY trace gravel (CL/ML)		-										-
		4		17.0		_	4	1.0	45.5		_	0
		5 5	2.5 B	17.2		-35	8	1.9 B	15.5		15	0 5 0
	_	-				_	-				_	-
	_	3	1.7	18.6		_				E7	6.00	
	_	4	B	10.0		_				Stiff Gray, Moist	<u>5.00</u> –	3
		-			Hard	0	-			SILTY CLAY trace gravel (CL/ML)		_
		3	1.5	18.8	Gray, Moist SILTY CLAY LOAM trace gravel		8 13	4.2	13.6			3
	-20	4	в		End of Boring dicated by (B-Bulge, S-Shear, P-Penetron	0 -40	15	В			-20	0 5

Defau MME: \\}	HBM	USER NAME =	DESIGNED - JMI DRAWN - JMI	REVISED - REVISED -	STATE OF ILLINOIS	OVERHEAD SIGN STRU
DEL		PLOT SCALE =	CHECKED - MI, LAB	REVISED -	DEPARTMENT OF TRANSPORTATION	BORING LOGS
MOI	ENGINEERING GROUP, LLC	PLOT DATE =	DATE - 12/9/2024	REVISED -		SHEET OHSS2-13 OF OHSS2-
	2/9/2024 6:39:57 PM	•	·	•		

PTION	I		Overhead Sign 8	_ LC	GGE	ED BY	J/	AR
			, SEC. 11, TWP. 36N, RNG. 25E, 3 rd F					
THOD		Hol	low Stem Auger HAMMER T	YPE _		A	uto	
B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. N/A Stream Bed Elev. N/A Groundwater Elev.: First Encounter First Encounter 585.0 Upon Completion None After N/A	ft ft.⊻ ft	D E P T H	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
			Stiff Gray, Moist	I	_			
5 9		22.7	SILTY CLAY trace gravel (CL/ML) (continued)		_	3	1.7	20.7
9		22.1				4 5	Т.7 В	20.1
_						-		
5 4		21.0				3 4	1.9	21.4
5					-25	6	В	
6					_	2		
9 7		27.1				4 6	1.7 B	21.0
					_			
1		67.3			_	3	1.9	20.7
1					-30	6	В	
1					_			
1 1		70.1						
			Very Stiff to Hard	60.00	_			
0		42.5	Gray, Moist SILTY CLAY LOAM trace gravel			5 8	3.3	13.4
0			(CL/ML)		-35	11	В	
0								
0 3	1.0 B	38.5						
3	D							
3					_	8	-	
4 5	1.7 B	22.1		53.00	-40	17 27	5.0 B	12.9
Failur Iow va	e Mod lues i	e is ind n each	End of Boring dicated by (B-Bulge, S-Shear, P-Pene sampling zone (AASHTO T206) E			137 (R	ev. 8-9	9)

STRUCTURES	F.A.I. RTE	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
OGS	94	(42-B-11-1)	BR, BJR	24	СООК	761	454
005	CONTRACT NO. 62						
HSS2-13SHEETS			ILLINOIS	FED.	AID PROJECT		



12/9/2024 8:43:24 AM

Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

Transportation Standard Specifications for Road and Bridge Construction,

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code

minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270

shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise

Galvanized after fabrication in accordance with AASHTO M111. Painting is

possible but may vary $\pm 6''$ to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust

- version of applicable specifications and submitted for the
- drilling and other necessary items. Limits of payment are based on grating length (cw, dw) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base

	1	01 A	L BILL OF MAI	ERIAL			
	\smile		SIGN STRUCTURE- UNTED	Foot	36]	
NERAL PLAN AND E	LEVATION	FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
)16-0388		581	(42-B-11-1) BR, BJR 24	соок	761	455	
10 0000				CONTRA	CT NO. 62	W87	
4 SHEETS		ILLINOIS FED. AID PROJECT					



12/9/2024 8:43:27 AM

WAY AND CONNECTION DETAILS		SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
016-0388	581	(42-B-11-1)	BR, BJR 2	4	соок	761	456
010-0500					CONTRAC	T NO. 62	W87
1-4 SHEETS			ILLINOIS	FED.	AID PROJECT		



12/9/2024 8:43:31 AM

RES CONNECTION DETAILS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
. 016-0388	581	(42-B-11-1) BR, BJR 24	соок	761	457	
. 010-0308			CONTRAC	T NO. 62	W87	
3M-4 SHEETS	ILLINOIS FED. AID PROJECT					



12/9/2024 8:43:34 AM


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GENERAL NOTES:

- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. The Contractor shall field-verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 3. The Contractor may request copies of existing construction plans that are currently on file with the Illinois Department of Transportation (IDOT). The request shall be in writing with the understanding that any reproduction cost will be at the Contractor's expense and at no additional cost to the Department.
- 4. All exposed concrete edges shall have a $\frac{3}{4}$ " x 45° chamfer except where shown otherwise.
- Protective coat shall be applied to the top of reconstructed transverse joint areas, top 5 of new latex concrete overlay, and top and inside faces of parapets.
- Joint openings shall be adjusted according to Article 520.04 of the Standard 6 Specifications when the deck is poured at an ambient temperature other than 50°F.
- 7. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC-SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding $\frac{1}{4}$ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- The Contractor shall take all necessary precautions for the protection of passing vessels from falling objects and/or materials until completion of the work.
- It shall be the Contractor's responsibility to locate and protect any utilities or facilities on, within or under the bridge deck including, but not limited to, under deck lighting, traffic signals or signs attached to the structure. Any damage to existing utilities/facilities caused by the Contractor in the performance of the work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- 10. The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the steel beams, stringers, floor beams, truss elements and diaphragms to remain. Any damage to existing elements to remain caused by the Contractor in the performance of the work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no additional cost to the Department.
- 11. For SMA overlay on Approach Slabs, see Roadway Plans.
- 12. Adjacent I-94 EB bridge is not shown throughout the plans for clarity.
- 13. The Contractor is responsible to protect the existing conduit and junction box embedded in the parapet during removal and construction. Any damage to the existing conduit and junction box shall be repaired by the Contractor, to the satisfaction of the Engineer at no additional cost to the Department.
- 14. Concrete Sealer shall be applied to the designated areas of the abutments and piers (beneath expansion joints only).
- 15. Prior to the application of the Concrete Sealer, the Contractor shall clean all existing debris from the abutment and pier seats. The method of debris removal shall not damage the existing concrete and shall be approved by the Engineer. See Special Provision for Debris Removal.
- 16. The Engineer shall show actual locations and sizes of deck repairs on As-built Plans.
- 17. The Contractor shall obtain Coast Guard approval for any work that may interfere with navigational operations of the navigable waters. A work plan shall be prepared by the Contractor, reviewed and approved by the Engineer and be submitted by the Engineer to Lee Soule (216-902-6085) of the US Coast Guard at Lee.d.soule@uscg.mil for approval at least 2 weeks in advance prior to starting work.

GENERAL NOTES (CONT.):

18. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

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501-02	General Notes, Index of Sheets & TBOM
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501-04	Stage Construction (Sheet 2 of 2)
S01-04 S01-05	Temporary Concrete Barrier
501-05	Deck Repair Plan (Sheet 1 of 4)
S01-07	Deck Repair Plan (Sheet 2 of 4)
501-08	Deck Repair Plan (Sheet 3 of 4)
501-09	Deck Repair Plan (Sheet 4 of 4)
501-10	Drainage Scupper Adjustment Details
501-11	N. Abut. Joint Removal & Replacement (Sht. 1 of 3)
501-12	N. Abut. Joint Removal & Replacement (Sht. 2 of 3)
501-13	N. Abut. Joint Removal & Replacement (Sht. 3 of 3)
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S01-17	Span 4 Panel Pt. 3 Jt. Rem. & Repl. (Sht. 2 of 2)
501-18	Span 4 Panel Pt. 6 Jt. Rem. & Repl. (Sht. 1 of 2)
501-19	Span 4 Panel Pt. 6 Jt. Rem. & Repl. (Sht. 2 of 2)
501-20	Span 4 Panel Pt. 3' Jt. Rem. & Repl. (Sht. 1 of 2)
501-21	Span 4 Panel Pt. 3' Jt. Rem. & Repl. (Sht. 2 of 2)
501-22	Pier 4 Joint Removal & Replacement (Sht. 1 of 2)
501-23	Pier 4 Joint Removal & Replacement (Sht. 2 of 2)
501-24	S. Abut. Joint Removal & Replacement (Sht. 1 of 3)
S01-25	S. Abut. Joint Removal & Replacement (Sht. 2 of 3)
501-26	S. Abut. Joint Removal & Replacement (Sht. 3 of 3)
501-27	Preformed Joint Strip Seal
501-28	Partial Framing Plan and Structural Steel Repairs
501-29	Structural Steel Repair Details
501-30	North Abutment Repairs
501-31	South Abutment Repairs
501-32	Pier 1 Repairs
501-33	Pier 2 Repairs
501-34	Pier 3 Repairs
S01-35	Pier 4 Repairs
501-36	Pier 5 Repairs
S01-37	Pier 6 Repairs

S01-38 Bar Splicer Assembly and Mechanical Splicer Detail

PROPOSED SCOPE OF WORK

- 1. Provide protective shield within limits indicated on the plans.
- 2. Perform Deck Slab Repairs and adjust/extend existing scuppers and inlets as required.
- 3. Clean Drainage System and perform Bridge Washing.
- 4. Perform 3/4" Bridge Deck scarification.
- 5. Reconstruct Expansion Joints at the North and South Abutments, Pier 4, and Span 4 Panel Points 3, 6, and 3'.
- 6. Adjust finger plate joint and replace trough at Pier 3.
- 7. Apply a 3" bridge deck latex concrete overlay on bridge deck.
- 8. Perform $\frac{1}{4}$ diamond grinding to top of bridge deck and abutment hatch block
- 9. Perform bridge deck grooving (longitudinal) on traffic lanes.
- 10. Apply protective coat to the top of reconstructed transverse joint areas, top of new latex concrete overlay and top and inside faces of parapets.
- 11. Clean existing stringers, bearings, and support/bearing stiffeners at the locations shown on the Plans.
- 12. Coordinate with IDOT District 1 Bridge Maintenance to have section loss measurements performed at the newly cleaned stringers and support/bearing stiffeners
- 13. Perform painting of stringer ends, bearings and support/bearing stiffeners after section loss measurements have been obtained as directed by the Department
- 14. Perform diaphragm removal/replacement and structural steel repairs at the locations indicated on the Plans and as directed by the Engineer.
- 15. Perform structural repair of concrete to all spalled and delaminated areas of the Abutments, Wingwalls and Piers as noted in the plans.

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<u>TOTAL BILL OF</u>	MATERI	<u>AL</u>		
ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yd	52.0	-	52.0
Protective Shield	Sq Yd	2,859	-	2,859
Concrete Superstructure	Cu Yd	50.0	-	50.0
Protective Coat	Sq Yd	5,532	-	5,532
Furnishing And Erecting Structural Steel	Pound	9,300	-	9,300
Cleaning And Painting Structural Steel, Location 2	L Sum	1	-	1
Reinforcement Bars, Epoxy Coated	Pound	9,560	-	9,560
Bar Splicers	Each	114	-	114
Preformed Joint Strip Seal	Foot	330	-	330
Fabric Reinforced Elastomeric Trough	Foot	56	-	56
Concrete Sealer	Sq Ft	-	4378	4,378
Bridge Washing No. 2	Each	1	-	1
Bridge Deck Grooving (Longitudinal)	Sq Yd	3,172	-	3,172
Structural Steel Removal	Pound	280	-	280
Structural Steel Repair	Pound	410	-	410
Containment And Disposal Of Non-Lead Paint Cleaning Residues No. 2	L Sum	1	-	1
Cleaning Drainage System	L Sum	0.33	-	0.33
Deck Drain Extensions	Each	28	-	28
Drainage Scuppers To Be Adjusted	Each	28	-	28
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	4,471	-	4,471
Bridge Deck Scarification 3/4"	Sq Yd	4,471	-	4,471
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	-	140	140
Deck Slab Repair (Full Depth, Type I)	Sq Yd	0.5	-	0.5
Deck Slab Repair (Full Depth, Type II)	Sq Yd	12	-	12
Diamond Grinding (Bridge Section)	Sq Yd	4,262	-	4,262
Temporary Shoring And Cribbing	Each	-	2	2

TOTAL DILL OF MATERIAL

PAINT NOTES:

1. Existing Structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures," and the Standard Specifications. The color of the final finish coat shall be Gray, Munsell No. 5B 7/1. Cost included with Structural Steel Repair.

2. Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures" and as shown in the Plans. All beams, bearings and other structural steel within 5 ft (measured along the beam) of the south side of the deck joint shall be cleaned per Near-White Blast Cleaning (SSPC-SP10).

3. The designated areas cleaned per Near-White Blast Cleaning (SSPC-SP10) shall be painted according to the requirements of the Organic Zinc-Rich Primer/Epoxy Intermediate Coat/Urethane Top Coat (0Z/E/U) Paint System. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1.

4. Containment of cleaning residue is required to control nuisance dust. See Special

5. SSPC QP1 Certification is required for this contract.

Provisions.



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STAGE I REMOVAL

- 1. Install temporary concrete barrier as shown to locate traffic on the east side of the existing structure.
- 2. Perform $\frac{3}{4}$ " bridge deck scarification.
- 3. Remove areas of existing deck for full-depth deck slab repairs at locations shown in the plans.
- 4. Remove portions of bridge deck/approach slab adjacent to expansion joints at the North and South Abutments and remove portions of bridge deck slab adjacent to expansion joints at Pier 4 and truss Panel Points 3, 6 and 3'.
- 5. Remove Pier 3 finger plate joint trough within the limits of Stage I Removal.

STAGE I CONSTRUCTION

- 1. Perform bridge deck slab repairs.
- 2. Reconstruct transverse expansion joints and install new preformed joint strip seals within the limits of Stage I Construction.
- 3. Adjust finger plate joint, and replace trough, at Pier 3 within the limits of Stage I Construction.
- 4. Adjust existing drainage scuppers/inlets and extend downspouts per the details shown in the plans.
- 5. Perform temporary shoring and cribbing at the locations shown on the Plans (and as directed by the Engineer) and perform structural repair of concrete for the abutments and piers.
- 6. Apply 3" bridge deck latex concrete overlay.
- 7. Perform $\frac{1}{4}$ diamond grinding to bridge deck and abutment hatch block.
- 8. Perform Bridge Deck Grooving (Longitudinal) for the 3" bridge deck latex concrete overlay and reconstructed expansion joint areas.
- 9. Apply 2" Stone-Matrix Asphalt (SMA) Overlay to the approach slab and taper into existing roadway. See Roadway Plans.
- 10. Apply protective coat to top and inside faces of parapets, reconstructed transverse expansion joint areas and to the surface of the new overlay.

NOTES:

- 1. For Temporary Concrete Barrier details, see Sheet S01-05.
- 2. For quantity of Temporary Concrete Barrier, see Roadway Plans.
- * Match existing cross-slopes
- ** After grinding
- *** Approach span cross-section shown, truss span stage dimensions and sequence similar



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STAGE II REMOVAL

1. Relocate temporary concrete barrier as shown to locate traffic on the west side of the existing structure.

2. Perform ¾" bridge deck scarification.

3. Remove areas of existing deck for full-depth deck slab repairs at locations shown in the plans.

4. Remove portions of bridge deck/approach slab adjacent to expansion joints at the North and South Abutments and remove portions of bridge deck slab adjacent to expansion joints at Pier 4 and truss Panel Points 3, 6 and 3'.

5. Remove Pier 3 finger plate joint trough within the limits of Stage II Removal.

STAGE II CONSTRUCTION

1. Perform bridge deck slab repairs.

2. Reconstruct transverse expansion joints and install new preformed joint strip seals within the limits of Stage II Construction.

3. Adjust finger plate joint, and replace trough, at Pier 3 within the limits of Stage II Construction.

4. Adjust existing drainage scuppers/inlets and extend downspouts per the details shown in the plans.

5. Perform temporary shoring and cribbing at the locations shown on the Plans (and as directed by the Engineer) and perform structural repair of concrete for the abutments and piers.

6. Apply 3" bridge deck latex concrete overlay.

7. Perform $\frac{1}{4}$ " diamond grinding to bridge deck and abutment hatch block.

8. Perform Bridge Deck Grooving (Longitudinal) for the 3" bridge deck latex concrete overlay and reconstructed expansion joint areas.

9. Apply 2" Stone-Matrix Asphalt (SMA) Overlay to the approach slab and taper into existing roadway. See Roadway Plans.

10. Apply protective coat to top and inside faces of parapets, reconstructed transverse expansion joint areas, and to the surface of the new overlay.

NOTES:

1. For temporary concrete barrier details, see Sheet S01-05.

2. For quantity of temporary concrete barrier, see Roadway Plans.

* Match Existing Cross-slopes

** After grinding

*** Approach span cross-section shown, truss span stage dimensions and sequence similar.

N (SHEET 2 OF 2)		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
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SHEET S01-05 OF S03





BAR SPLICER FOR #4 BAR - DETAIL III

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate *Q* of each temporary

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam. When the 'A' dimension is less than $1\frac{1}{2}$ ", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

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NOTES:

- Areas of deck repair shown are estimated. The Engineer shall show actual locations of deck repairs at the time of 1. construction.
- For bridge deck final cross section, see Sheet S01-04. 2.
- Perform 1/4" Diamond Grinding to top of bridge deck and abutment hatch block. З.
- For North Abutment expansion joint removal and reconstruction, see Sheets S01-11 thru S01-13. 4.
- For Pier 3 finger plate joint adjustment and trough replacement details, see Sheets S01-14 and S01-15. 5.
- 6. Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system. Cost incidental to Concrete Removal.

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<u>BILL OF MATERIAL</u>		
Protective Coat	Sq Yd	1,319
Bridge Deck Grooving (Longitudinal)	Sq Yd	743
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	1,054
Bridge Deck Scarification 3/4"	Sq Yd	1,054
Diamond Grinding (Bridge Section)	Sq Yd	995



*Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 3"



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*Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 3"

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NOTES:

1. For expansion joint removal and reconstruction at Pier 4, see Sheets 501-22 and 501-23.

For South Abutment expansion joint removal and reconstruction, see Sheets S01-24 thru S01-26. 2.

3. For additional notes, see Sheet S01-06.

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BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Protective Coat	Sq Yd	1,319
Bridge Deck Grooving (Longitudinal)	Sq Yd	743
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	1,054
Bridge Deck Scarification 3/4"	Sq Yd	1,054
Diamond Grinding (Bridge Section)	Sq Yd	995

Deck Slab Repair (Full Depth, Type II)

Square Yard

SY

*Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 3"

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Bar	No.	Size	Length	Shape
a100(E)	9	#5	27'-10"	
a101(E)	9	#5	27'-1"	
a102(E)	6	#6	6'-0"	
d100(E)	6	#5	3'-8"	L
d101(E)	6	#5	2'-7"	$\overline{}$
d102(E)	6	#4	3'-8"	L
d103(E)	6	#4	3'-5"	
h100(E)	6	#6	26'-3"	
h101(E)	6	#6	25'-9"	
u100(E)	54	#5	3'-0"	
v100(E)	54	#5	2'-1"	
Concrete	Removal		Cu Yd	8.0
Concrete		ructure	Cu Yd	5.0
Protectiv	e Coat		Sq Yd	20
Reinforce Coated	ement Ba	rs, Epoxy	Pound	1,400



Bar u100(E)







NOTE:

1. For legend and additional notes, see Sheet S01-11.

*Before ¼" Diamond Grinding

BILL OF MATERIAL



BAR d100(E) & d102(E)





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OF	S01-38	SHEETS	



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DJUSTMENT (SHT. 2 OF 2)	F.A.I. RTE	SEC ⁻	FION		COUNTY	TOTAL SHEETS	SHEET NO.
016-0159	94	(42-B-11-1)	BR, BJR	24	COOK	761	473
010-0100					CONTRACT	NO.	62W87
01-38 SHEETS			ILLINOIS	FED. AI	D PROJECT		



ILLINOIS FED. AID PROJECT



Defau		USER NAME =	hbmepw11ics01\$	DESIGNED -	LR	REVISED -		SPAN 4 PANEL PT. 3 JT. REM. & REPL. (SHT. 2 OF 2)	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
A R				DRAWN -	LR	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0159	94	(42-B-11-1) BR, BJR 24	СООК	761 475
		PLOT SCALE =	2.0.0000 '." / in	CHECKED -	MI, JJS	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO: 010-0139			CONTRA	CT NO. 62W87
6 E E	ENGINEERING GROUP, LLC	PLOT DATE =	12/6/2024	DATE -	12/9/2024	REVISED -		SHEET S01-17 OF S01-38 SHEETS		ILLINOIS FE	D. AID PROJECT	

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ENGINEERING GROUP LLC

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DATE - 12/9/2024

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SHEET S01-18 OF S

).F.	Outside	Face

FS	Each	Side
L.J.	Lach	JIUE

FF	Each End	1

1. & REPL. (SHT. 1 OF 2)	F.A.I. RTE. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
. 016-0159	94	(42-B-11-1)	BR, BJR	24	СООК	761	476
. 010-0133					CONTRACT	NO. 6	52W87
501-38 SHEETS			ILLINOIS	FED. A	D PROJECT		



		DRAWN -	LR	REVISED -	STATE OF ILLINOIS	SPAN 4 PANEL PT. 6 JT. REM. STRUCTURE NO.
	PLOT SCALE = 2:0.0000 '." / in PLOT DATE = 12/6/2024	DATE -	MI, JJS 12/9/2024	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET S01-19 OF SC

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S01-38 SHEETS

ILLINOIS FED AID PROJECT



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	ENGINEERING GROUP, LLC	PLOT DATE = 12/6/2024	DATE - 12/9/2024	REVISED -		SHEET S01-20 OF

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S01-38 SHEETS

CONTRACT NO. 62W87 ILLINOIS FED. AID PROJECT



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AM L				DRAWN -	LR	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0159	94	(42-B-11-1) BR, BJR 24	СООК	761 479
		PLOT SCALE =	2.0.0000 '." / in	CHECKED -	MI, JJS	REVISED -	DEPARTMENT OF TRANSPORTATION	31R0C10RE NO. 010-0139			CONTRAC	CT NO. 62W87
DM MO	ENGINEERING GROUP, LLC	PLOT DATE =	12/6/2024	DATE -	12/9/2024	REVISED -		SHEET S01-21 OF S01-38 SHEETS		ILLINOIS FED. A	D PROJECT	

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ENGINEERING GROUP, LLC PLOT DATE = 12/6/2024 DATE - 12/9/2024 REVISED - SHEET 501-23 OF	HBM	USER NAME = hbmepw11ics01\$ PLOT SCALE = 2:0.0000 ':" / in.	DESIGNED - LR DRAWN - LR CHECKED - MI, JJS	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER 4 JOINT REMOVAL & REF STRUCTURE NO.
	ENGINEERING GROUP, LLC	PLOT DATE = 12/6/2024	DATE - 12/9/2024	REVISED -		SHEET S01-23 OF S

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S01-38 SHEETS ILLINOIS FED AID PROJECT



12/6/2024

PLOT DATE = 12/6/2024

DATE

- 12/9/2024

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REMOVAL & REPLACEMENT (SHT. 1 OF 3) STRUCTURE NO. 016-0159		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		(42-B-11-1) BR, BJR	24	соок	761	482
				CONTRACT	NO. 6	52W87
SHEET S01-24 OF S01-38 SHEETS		ILLINOIS	FED. AI	PROJECT		



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DATE - 12/9/2024

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REVISED -

STRUCTURE NO. SHEET S01-26 OF S0

	BILL (DF MAT	ERIAL		
Bar	No.	Size	Length	Shape	
a150(E)	9	#5	27'-10"		
a151(E)	9	#5	27'-1"		
a152(E)	6	#6	6'-0"		
d150(E)	6	#5	3'-8''	L	
d151(E)	6	#5	2'-7"	\sim	
d152(E)	6	#4	3'-8"	L	
d153(E)	6	#4	3'-5"		
h150(E)	6	#6	26'-3"		
h151(E)	6	#6	25'-9"		
u150(E)	54	#5	3'-0"		
v150(E)	54	#5	2'-1"		
Concrete	Removal		Cu Yd	8.0	
Concrete		ructure	Cu Yd	5.0	
Protective			Sq Yd	20	
Reinforce Coated	ement Ba	Pound	1,400		



BAR d150(E) & d152(E)



NOTE: 1. For legend and additional Notes, see Sheet S01-24.

PLACEMENT (SHT. 3 OF 3)		SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHEET NO.
016-0159		(42-B-11-1)	BR, BJR	24	СООК	761	484
					CONTRACT	NO. 6	52W87
01-38 SHEETS			ILLINOIS	FED. AI	D PROJECT		



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ENGINEERING GROUP LLC

PLOT DATE = 12/6/2024

DATE

- 12/9/2024

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SHEET S01-27 OF S0

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4¹/₂" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted. The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Strip Seal	Foot	330

T STRIP SEAL . 016-0159		SEC ⁻	FION		COUNTY	TOTAL SHEETS	SHEET NO.
		(42-B-11-1)	BR, BJR	24	СООК	761	485
					CONTRACT	NO. 6	52W87
01-38 SHEETS			ILLINOIS	FED. AI	D PROJECT		



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REPAIR DETAILS	F.A.I. RTE	SEC ⁻	FION		COUNTY	TOTAL SHEETS	SHEET NO.
016-0159		(42-B-11-1)	BR, BJR	24	СООК	761	487
					CONTRACT	NO.	62W87
501-38 SHEETS			ILLINOIS	FED. A	D PROJECT		



efau		USER NAME = hbmepw11ics01\$	DESIGNED - LR, AWD	REVISED -		NORTH ABUTMENT REPAIRS	F.A.I. SECTION	COUNTY TOTAL SHEET SHEETS NO.
HEBONE ENGINEERING GROUP, LLC		DRAWN - LR, AWD	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0159	94 (42-B-11-1) BR, BJR 24	COOK 761 488	
	PLOT SCALE = 6.0.0000 ' " / in	" / in. CHECKED – MI, JJS	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 010-0159		CONTRACT NO. 62W87	
	PLOT DATE = 12/6/2024	DATE - 12/9/2024	REVISED -		SHEET S01-30 OF S01-38 SHEETS	ILLINOIS FED./	AID PROJECT	
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NOTES:

BILL OF MATERIAL
ITEMUNITQUANTITYConcrete SealerSq Ft232Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)Sq Ft2
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches) Sq Ft 2
I. Abut.
2'-1½"
+
(15) (16)
2.0 SF
Exist. Ground Line

LEGEND



Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

Square Foot SF





STATE OF ILLINOIS DRAWN - LR, AWD REVISED -STRUCTURE NO. **DEPARTMENT OF TRANSPORTATION** LOT SCALE = 6:0.0000 '." / in. CHECKED - MI, JJS REVISED -PLOT DATE = 12/6/2024 DATE - 12/9/2024 REVISED -SHEET S01-31 OF S ENGINEERING GROUP, LLC

LEGEND

-1.0 SF

-2.0 SF

SF

Square Foot

or Less than 5 inches)

NT REPAIRS		SEC.	SECTION			TOTAL SHEETS	SHEET NO.
. 016-0159		(42-B-11-1) BR, BJR 24		24	СООК	761	489
.010-0139					CONTRACT	NO. 6	52W87
S01-38 SHEETS	ILLINOIS I				D PROJECT		

Structural Repair of Concrete (Depth Equal to



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ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft	21

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

2. The Contractor is responsible to remove, support, and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal To or Less Than 5").

Structural Repair of Concrete (Depth Equal to or Less than 5

Square Foot

F.A.I. RTE				COUNTY	TOTAL SHEETS	SHEET NO.
94 (42-B-11-1) BR, BJR 24			24	СООК	761	490
				CONTRACT	NO. 6	52W87
		ILLINOIS	FED. AI	D PROJECT		
	RTE.	RTE. SEC 94 (42-B-11-1)	RTE. SECTION	RTE. SECTION 94 (42-B-11-1) BR, BJR 24	RTE SECTION COUNTY 94 (42-B-11-1) BR, BJR 24 COOK	RTE SECTION COUNTY SHEETS 94 (42-B-11-1) BR, BJR 24 COOK 761 CONTRACT NO. (6)



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ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft	46
Temporary Shoring And Cribbing	Each	2

BILL OF MATERIAL

SUMMARY OF REACTIONS							
Pier 2, Beams 14 & 15							
R DL (k) 91.0							
R LL	(k)	54.0					
R IM (k) 14.6							
R Total	(k)	159.6					

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

2. The Contractor is responsible to remove, support, and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal To or Less Than 5").

3. Temporary shoring and cribbing shall be installed prior to the start of the structural repair of concrete and shall be removed after completing the structural repair of

PAIRS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
. 016-0159	94	(42-B-11-1) BR, BJR 24		СООК	761	491
.010-0135				CONTRACT	NO. 6	52W87
S01-38 SHEETS	ILLINOIS FED. AID PROJECT					



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ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	1,957
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft	3

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

2. The Contractor is responsible to remove, support, and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete

3. Concrete Sealer shall be applied to the beam seats and the faces of the pier cap.

PAIRS . 016-0159		SEC ⁻	FI ON		COUNTY	TOTAL SHEETS	SHEET NO.
		(42-B-11-1)	BR, BJR	24	СООК	761	492
.010-0135					CONTRACT	NO. 6	52W87
S01-38 SHEETS			ILLINOIS	FED. AI	D PROJECT		



<u>BILL OF MATERIAL</u>			
ITEM	UNIT	QUANTITY	
Concrete Sealer	Sq Ft	1957	

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in

2. The Contractor is responsible to remove, support, and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete

3. Concrete Sealer shall be applied to the beam seats and the faces of the pier cap.

PAIRS 0. 016-0159		F.A.I. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
		(42-B-11-1)	BR, BJR	24	СООК	761	493
					CONTRACT	NO.	52W87
S01-38 SHEETS			ILLINOIS	FED. AI	D PROJECT		



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ITEM	UNIT	QUANTITY
Structural Repair of Concrete (D to or Less Than 5 Inches)	epth Equal Sq Ft	25

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

2. The Contractor is responsible to remove, support, and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete

		F.A.I. SECTION			COUNTY TOTA		SHEET NO.
. 016-0159	94	(42-B-11-1)	BR, BJR	24	СООК	761	494
. 010-0133					CONTRACT	NO. 6	52W87
S01-38 SHEETS			ILLINOIS	FED. AI	D PROJECT		



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BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft	33

1. Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in

2. The Contractor is responsible to remove, support, and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete

PAIRS . 016-0159		F.A.I. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
		(42-B-11-1)	BR, BJR 24	4	СООК	761	495
					CONTRACT	NO. 6	52W87
S01-38 SHEETS			ILLINOIS FE	ED. AID	PROJECT		



Only bar splicer assemblies as presented on the

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

* Epoxy not required on Bar Splicer Assembly components used in

approved QPL list may be used.

conjunction with black bars.

Span 4 P.P. 3' Jt.

Pier 4

South Abut



INSTALLATION AND SETTING METHODS

- "A" : Set bar splicer assembly by means of a template bolt.
- "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.

Location	Bar Size	No. assemblies required	Minimum Iap length
North Abut.	#5	9	3'-6"
	#6	6	5'-6"
Span 4 P.P. 3 Jt.	#5	21	3'-6"
Span 4 P.P. 6 Jt.	#5	21	3'-6"

3'-6

3'-6"

#5 #5 #5

#6

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	USER NAME = hbmepw11ics01\$	DESIGNED -	LR, AWD	REVISED -		BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAIL	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
HRM		DRAWN -	LR, AWD	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0159	94	(42-B-11-1) BR, BJR 24	соок	761 496
	PLOT SCALE = 0:2.0000 '." / in	CHECKED -	MI, JJS	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016-0159			CONTRAC	T NO. 62W87
ENGINEERING GROUP, LLC	PLOT DATE = 12/6/2024	DATE -	12/9/2024	REVISED -	SHEET S01-38 OF S01-38 SHEETS			ILLINOIS FED. AID PROJECT		

FILE

BSD-1



STANDARD MECHANICAL SPLICER

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Notes:

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.



GENERAL NOTES:

- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. The Contractor shall field-verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 3. The Contractor may request copies of existing construction plans that are currently on file with the Illinois Department of Transportation (IDOT). The request shall be in writing with the understanding that any reproduction cost will be at the Contractor's expense and at no additional cost to the Department.
- 4. All exposed concrete edges shall have a $\frac{3}{4}$ " x 45° chamfer except where shown otherwise.
- 5. Protective coat shall be applied to the top of reconstructed transverse joint areas, top of new latex concrete overlay, and top and inside faces of parapets.
- 6. Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.
- 7. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC-SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding $\frac{V_4}{4}$ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- 8. The Contractor shall take all necessary precautions for the protection of passing vessels from falling objects and/or materials until completion of the work.
- 9. It shall be the Contractor's responsibility to locate and protect any utilities or facilities on, within or under the bridge deck including, but not limited to, under deck lighting, traffic signals or signs attached to the structure. Any damage to existing utilities/facilities caused by the Contractor in the performance of the work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- 10. The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the steel beams, stringers, floor beams, truss elements and diaphragms to remain. Any damage to existing elements to remain caused by the Contractor in the performance of the work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- 11. For SMA overlay on Approach Slabs, see Roadway Plans.
- 12. Adjacent I-94 WB bridge is not shown throughout the plans for clarity.
- 13. The Contractor is responsible to protect the existing conduit and junction box embedded in the parapet during removal and construction. Any damage to the existing conduit and junction box shall be repaired by the Contractor, to the satisfaction of the Engineer, at no additional cost to the Department.
- 14. Concrete Sealer shall be applied to the designated areas of the abutments and piers (beneath expansion joints only).
- 15. Prior to the application of the Concrete Sealer, the Contractor shall clean all existing debris from the abutment and pier seats. The method of debris removal shall not damage the existing concrete and shall be approved by the Engineer. See Special Provision for Debris Removal.
- 16. The Engineer shall show actual locations and sizes of deck repairs on As-built Plans.
- 17. The Contractor shall obtain Coast Guard approval for any work that may interfere with navigational operations of the navigable waters. A work plan shall be prepared by the Contractor, reviewed and approved by the Engineer and be submitted by the Engineer to Lee Soule (216-902-6085) of the US Coast Guard at Lee.d.soule@uscg.mil for approval at least 2 weeks in advance prior to starting work.

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502-02	General Notes, Index of Sheets & TBOM
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502-04	Stage Construction (Sheet 2 of 2)
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502-06	Deck Repair Plan (Sheet 1 of 4)
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502-10	Drainage Scupper Adjustment Details
502-11	N. Abut. Joint Removal & Replacement (Sht. 1 of 3)
502-12	N. Abut. Joint Removal & Replacement (Sht. 2 of 3)
502-13	N. Abut. Joint Removal & Replacement (Sht. 3 of 3)
502-14	Pier 3 Finger Plate Joint Adjustment (Sht. 1 of 2)
<i>S02-15</i>	Pier 3 Finger Plate Joint Adjustment (Sht. 2 of 2)
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502-18	Span 4 Panel Pt. 6 Jt. Rem. & Repl. (Sht. 1 of 2)
502-19	Span 4 Panel Pt. 6 Jt. Rem. & Repl. (Sht. 2 of 2)
502-20	Span 4 Panel Pt. 3' Jt. Rem. & Repl. (Sht. 1 of 2)
502-21	Span 4 Panel Pt. 3' Jt. Rem. & Repl. (Sht. 2 of 2)
502-22	Pier 4 Joint Removal & Replacement (Sht. 1 of 2)
502-23	Pier 4 Joint Removal & Replacement (Sht. 2 of 2)
502-24	S. Abut. Joint Removal & Replacement (Sht. 1 of 3)
502-25	S. Abut. Joint Removal & Replacement (Sht. 2 of 3)
502-26	S. Abut. Joint Removal & Replacement (Sht. 3 of 3)
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S02-27A	Partial Framing Plan & Steel Painting Details
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502-29	South Abutment Repairs
502-30	Pier 1 Repairs
502-31	Pier 2 Repairs
502-32	Pier 3 Repairs
502-33	Pier 4 Repairs
502-34	Pier 5 Repairs
<i>S02-35</i>	Pier 6 Repairs



PAINT NOTES:

- Cleaning (SSPC-SP10).
- Provisions.

- PROPOSED SCOPE OF WORK
- 1. Provide protective shield within limits indicated on the plans.

Bar Splicer Assembly and Mechanical Splicer Detail

- 2. Perform Deck Slab Repairs and adjust/extend existing scuppers and inlets as required
- 3. Clean Drainage System and perform Bridge Washing.
- 4. Perform ¾" Bridge Deck scarification.
- 5. Reconstruct Expansion Joints at the North and South Abutments, Pier 4, and Span 4 Panel Points 3, 6, and 3'.
- 6. Adjust finger plate joint and replace trough at Pier 3.
- 7. Apply a 3" bridge deck latex concrete overlay on bridge deck
- 8. Perform $\mathcal{V}_4^{\prime\prime}$ diamond grinding to top of bridge deck and abutment hatch block.
- 9. Perform bridge deck grooving (longitudinal) on traffic lanes.
- 10. Apply protective coat to the top of reconstructed transverse joint areas, top of new latex concrete overlay and top and inside faces of parapets.
- 11. Clean existing stringers, bearings, and support/bearing stiffeners at the locations shown on the Plans.
- 12. Coordinate with IDOT District 1 Bridge Maintenance to have section loss measurements performed at the newly cleaned stringers and support/bearing stiffeners.
- 13. Perform painting of stringer ends, bearings and support/bearing stiffeners after section loss measurements have been obtained as directed by the Department.
- 14. Perform structural repair of concrete to all spalled and delaminated areas of the Abutments, Wingwalls and Piers as noted in the plans.

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TOTAL BILL OF MATERIAL								
ITEM	UNIT	SUPER	SUB	TOTAL				
oval	Cu Yd	52.0	-	52.0				
eld	Sq Yd	2,594	-	2,594				
rstructure	Cu Yd	58.0	-	58.0				
t	Sq Yd	5,532	-	5,532				
l Erecting Structural Steel	Pound	10,120	-	10,120				
Painting Structural Steel,	L Sum	1	-	1				
Bars, Epoxy Coated	Pound	9,560	-	9,560				
	Each	114	-	114				
nt Strip Seal	Foot	330	-	330				
ced Elastomeric Trough	Foot	56	-	56				
er	Sq Ft	-	3,636	3,636				
g No. 1	Each	1	-	1				
rooving (Longitudinal)	Sq Yd	3,172	-	3,172				
nd Disposal Of Non-Lead Paint lues No. 1	L Sum	1	-	1				
nage System	L Sum	0.33	-	0.33				
tensions	Each	28	-	28				
pers To Be Adjusted	Each	28	-	28				
atex Concrete Overlay, 3 Inches	Sq Yd	4,472	-	4,472				
carification 3/4"	Sq Yd	4,472	-	4,472				
pair Of Concrete (Depth Equal an 5 Inches)	Sq Ft	-	847	847				
air (Full Depth, Type I)	Sq Yd	0.5	-	0.5				
ing (Bridge Section)	Sq Yd	4,263	-	4,263				
oring And Cribbing	Each	-	4	4				

1. Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures" and as shown in the Plans. All beams, bearings and other structural steel within 5 ft (measured along the beam) of the south side of the deck joints shall be cleaned per Near-White Blast

2. The designated areas cleaned per Near-White Blast Cleaning (SSPC-SP10) shall be painted according to the requirements of the Organic Zinc-Rich Primer/Epoxy Intermediate Coat/Urethane Top Coat (0Z/E/U) Paint System. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1.

3. Containment of cleaning residue is required to control nuisance dust. See Special

4. SSPC QP1 Certification is required for this contract.

5. After cleaning of the specified stringer ends, bearing and support/bearing stiffeners has been completed, and prior to the start of paint operations, field measurements documenting section loss shall be taken by the Resident Engineer and forwarded to the IDOT District 1 Bridge Maintenance Engineer. Painting may not start until after approval of the field measurements by IDOT District 1 Bridge Maintenance.

		F.A.I. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
		(42-B-11-1)	BR, BJR	24	СООК	761	498
. 010-0130					CONTRACT	NO. 6	52W87
502-36 SHEETS			ILLINOIS	FED. A	D PROJECT		



- 12/9/2024

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STAGE I REMOVAL

- 1. Install temporary concrete barrier as shown to locate traffic on the west side of the existing structure.
- 2. Perform $\frac{3}{4}$ " bridge deck scarification.
- 3. Remove areas of existing deck for full-depth deck slab repairs at locations shown in the plans.
- 4. Remove portions of bridge deck/approach slab adjacent to expansion joints at the North and South Abutments and remove portions of bridge deck slab adjacent to expansion joints at Pier 4 and truss Panel Points 3, 6 and 3'.
- 5. Remove Pier 3 finger plate joint trough within the limits of Stage I Removal.

STAGE I CONSTRUCTION

- 1. Perform bridge deck slab repairs.
- 2. Reconstruct transverse expansion joints and install new preformed joint strip seals within the limits of Stage I Construction.
- 3. Adjust finger plate joint, and replace trough, at Pier 3 within the limits of Stage I Construction.
- 4. Adjust existing drainage scuppers/inlets and extend downspouts per the details shown in the plans.
- 5. Perform temporary shoring and cribbing at the locations shown on the Plans (and as directed by the Engineer), and perform structural repair of concrete for the abutments and piers.
- 6. Apply 3" bridge deck latex concrete overlay.
- 7. Perform $\frac{1}{4}$ " diamond grinding to bridge deck and abutment hatch block.
- 8. Perform Bridge Deck Grooving (Longitudinal) for the 3" bridge deck latex concrete overlay and reconstructed expansion joint areas.
- 9. Apply 2" Stone-Matrix Asphalt (SMA) Overlay to the approach slab and taper into existing roadway. See Roadway Plans.
- 10. Apply protective coat to top and inside faces of parapets, reconstructed transverse expansion joint areas and to the surface of the new overlay.

NOTES:

- 1. For Temporary Concrete Barrier details, see Sheet S02-05.
- 2. For quantity of Temporary Concrete Barrier, see Roadway Plans.
- * Match existing cross-slopes
- ** After grinding
- *** Approach span cross-section shown, truss span stage dimensions and sequence similar

N (SHEET 1 OF 2)	F.A.I. RTE	SECTIC	N		COUNTY	TOTAL SHEETS	SHEET NO.
. 016-0158	94	(42-B-11-1) BF	r, bjr	24	COOK	761	499
	_				CONTRACT NO. 62W87		
502-36 SHEETS		ILI	LINOIS	FED. AL	D PROJECT		



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STAGE II REMOVAL

Relocate temporary concrete barrier as shown to locate traffic on the east side of the existing structure.

2. Perform 3/1" bridge deck scarification.

Remove areas of existing deck for full-depth deck slab repairs at locations shown in the plans.

Remove portions of bridge deck/approach slab adjacent to expansion joints at the North and South Abutments and remove portions of bridge deck slab adjacent to expansion joints at Pier 4 and truss Panel Points 3, 6 and 3'.

Remove Pier 3 finger plate joint trough within the limits of Stage II Removal

STAGE II CONSTRUCTION

1. Perform bridge deck slab repairs.

2. Reconstruct transverse expansion joints and install new preformed joint strip seals within the limits of Stage II Construction.

3. Adjust finger plate joint, and replace trough, at Pier 3 within the limits of Stage II Construction.

4. Adjust existing drainage scuppers/inlets and extend downspouts per the details shown in the plans.

5. Perform temporary shoring and cribbing at the locations shown on the Plans (and as directed by the Engineer), and perform structural repair of concrete for the abutments and piers.

6. Apply 3" bridge deck latex concrete overlay.

7. Perform $\frac{1}{4}$ diamond grinding to bridge deck and abutment hatch block.

8. Perform Bridge Deck Grooving (Longitudinal) for the 3" bridge deck latex concrete overlay and reconstructed expansion joint areas.

9. Apply 2" Stone-Matrix Asphalt (SMA) Overlay to the approach slab and taper into existing roadway. See Roadway Plans.

10. Apply protective coat to top and inside faces of parapets, reconstructed transverse expansion joint areas, and to the surface of the new overlay.

For temporary concrete barrier details, see Sheet S02-05.

2. For quantity of temporary concrete barrier, see Roadway Plans.

* Match Existing Cross-slopes

** After grinding *** Approach span cross-section shown, truss span stage dimensions and sequence similar.

N (SHEET 2 OF 2)	F.A.I. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
016-0158		(42-B-11-1) BR, BJR 24		24	СООК	761	500
010-0130					CONTRACT NO. 62W87		
502-36 SHEETS			ILLINOIS	FED. AI	D PROJECT		