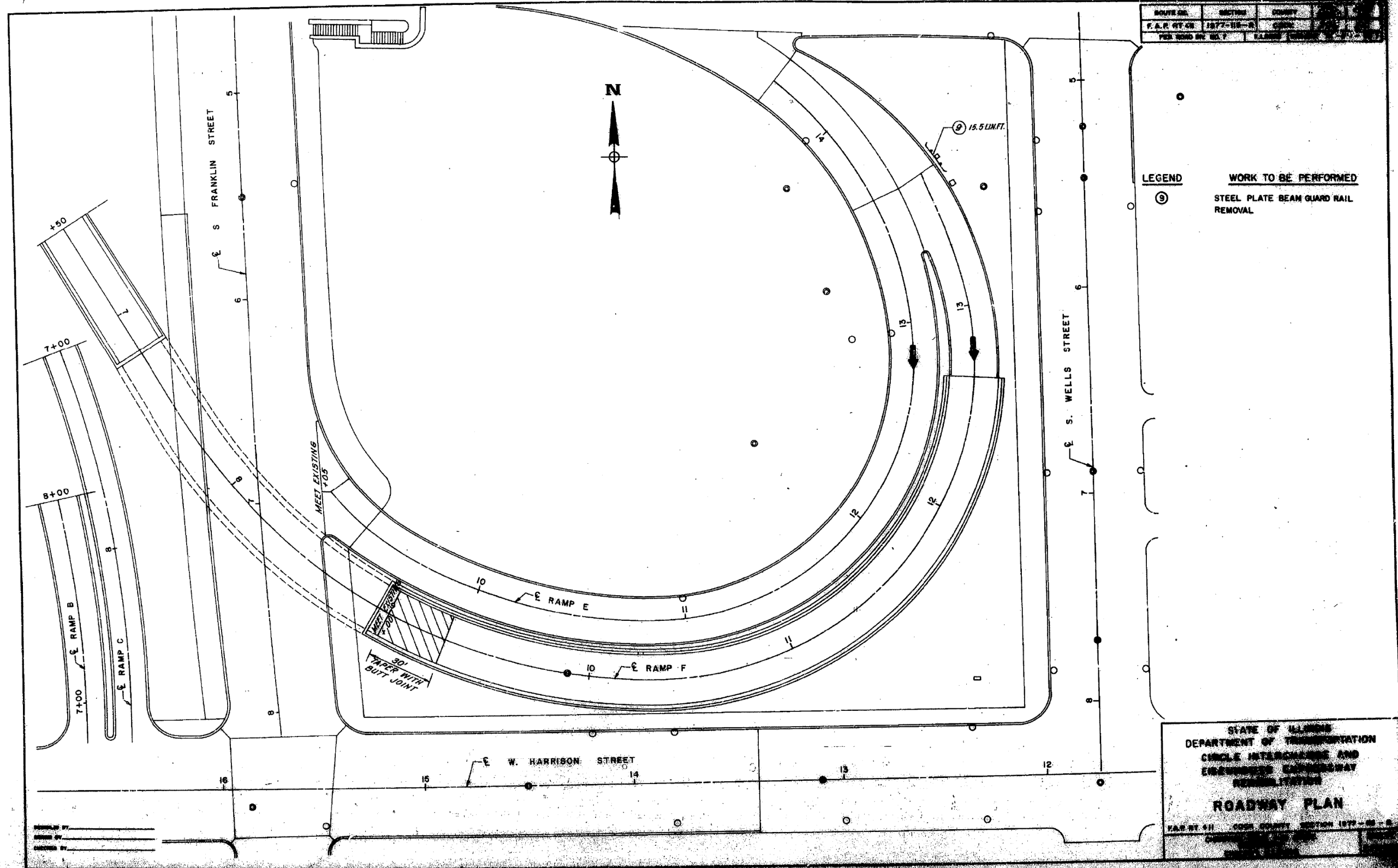


FOR INFORMATION ONLY



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		CHECKED -	REVISD -
PLOT SCALE =	N.T.S	DRAWN -	REVISD -
PLOT DATE =	7/26/2018	CHECKED -	REVISD -
		MI, MAI	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

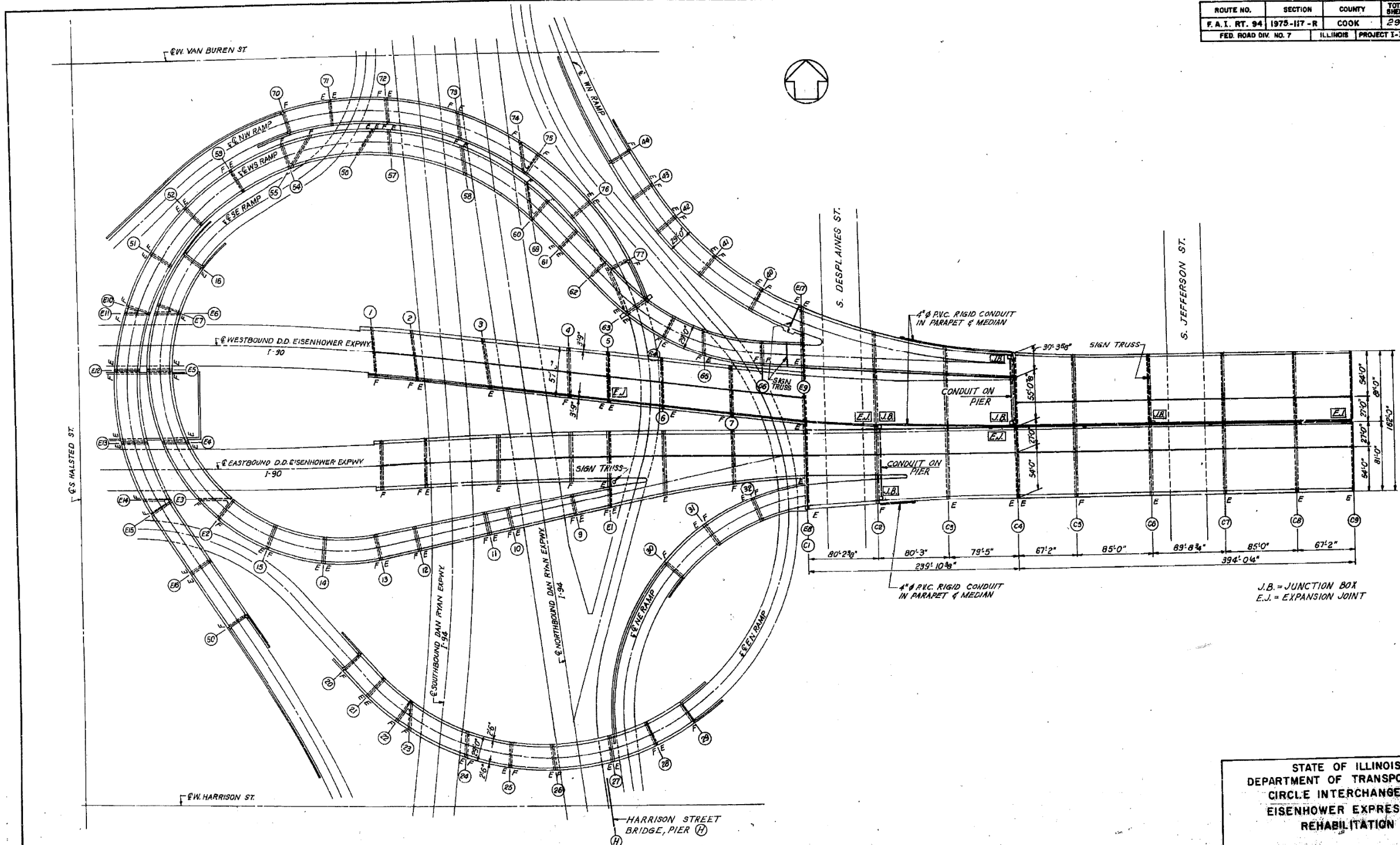
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1801
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	27
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-19-94-31		



DESIGNED BY _____
 DRAWN BY _____
 CHECKED BY _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION

GENERAL LOCATION
 F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
 CHRISTIAN ENGINEERING AND ASSOC.
 CHICAGO, ILLINOIS

FILE NAME: D:\V6\1749-PWINT-aecom\line\local\AECOM_DS02_NAY\Documents\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing314



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PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

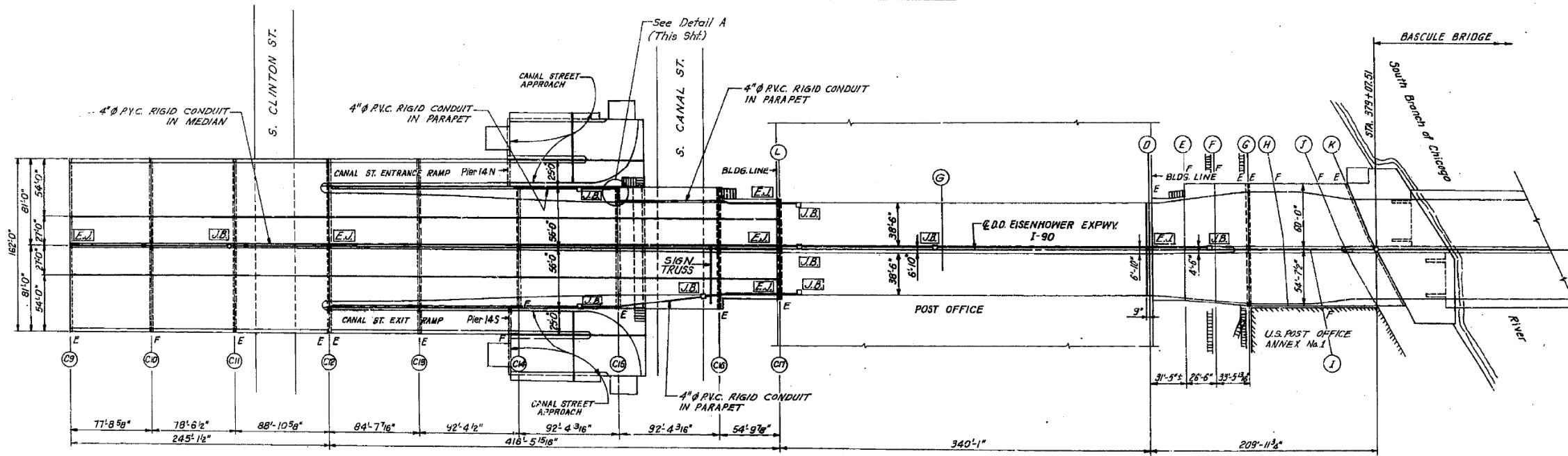
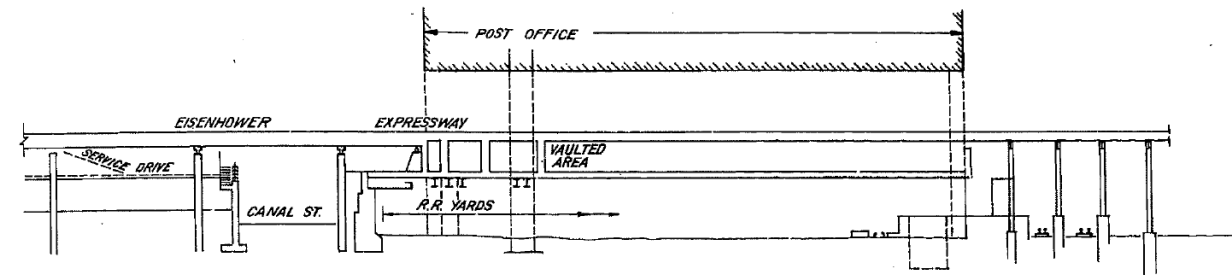
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1802
CONTRACT NO. 60X93				

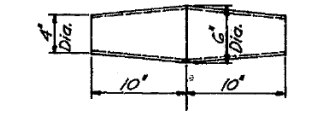
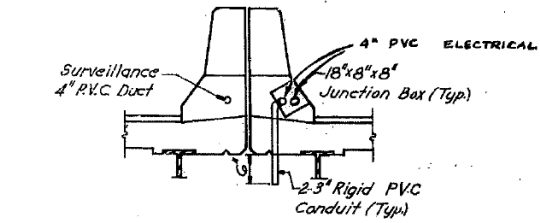
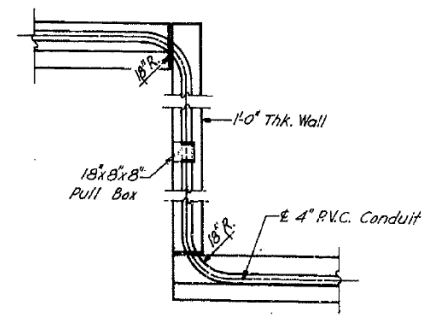
ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1973-I17-R	COOK	290	28
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-31		



J.B. = Junction Box
E.J. = Expansion Joint



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION

GENERAL LOCATION

F.A.I. RT. 94 COOK COUNTY SECTION 1973-I17-R

CHRISTIAN, HILL AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

FILE NAME: DWG:\161749-PWINT-accomline.local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing315



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		CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

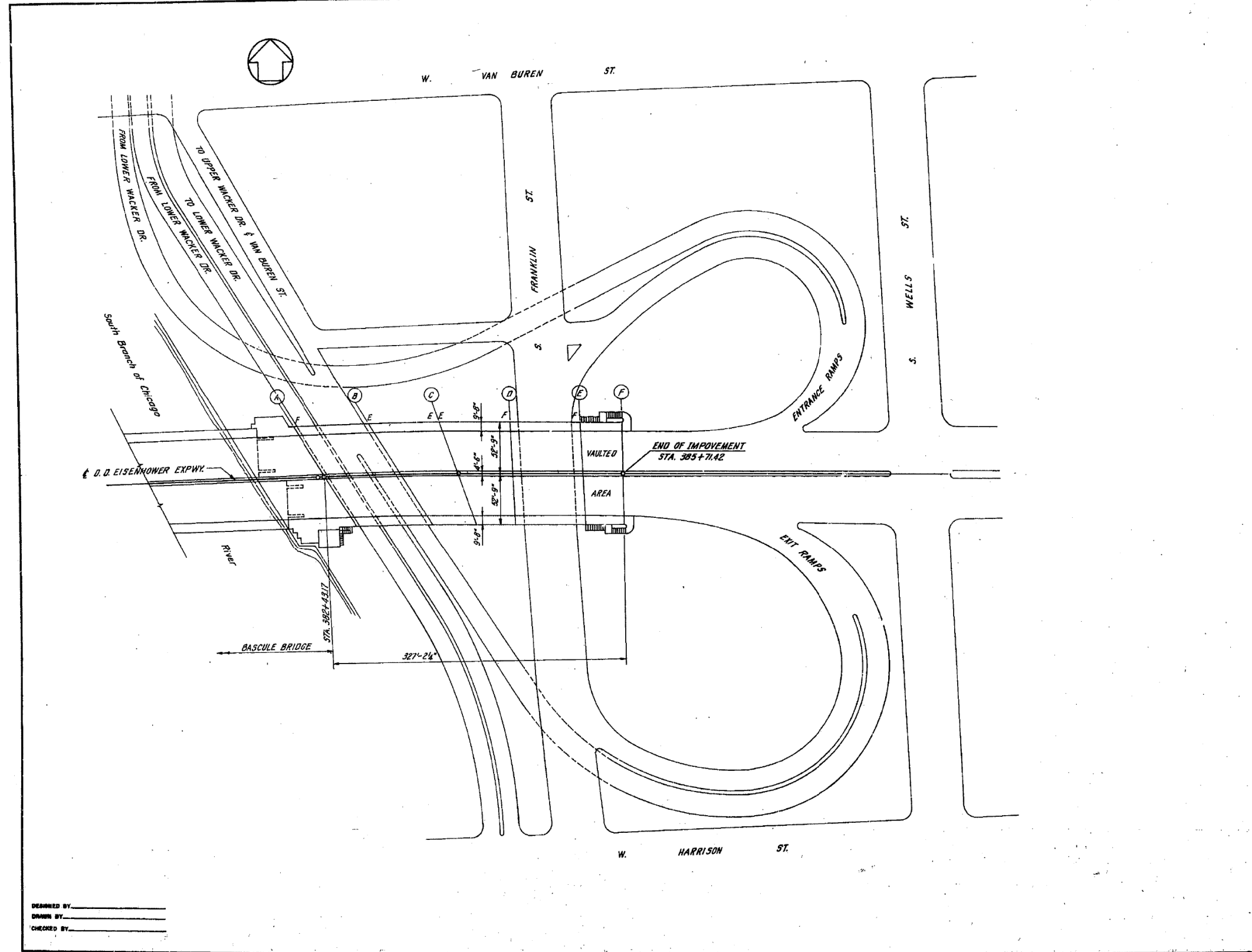
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1803
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	29
FED. ROAD DN. NO. 7	ILLINOIS	PROJECT 1-1A-94-31		



DESIGNED BY: _____
 DRAWN BY: _____
 CHECKED BY: _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION

GENERAL LOCATION

F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
 CHRISTIAN, HOFF, AND ASSOC.
 ENGINEERS
 CHICAGO, ILLINOIS

FILE NAME: D:\V61749-PWINT-aecom\line\local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing316



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PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

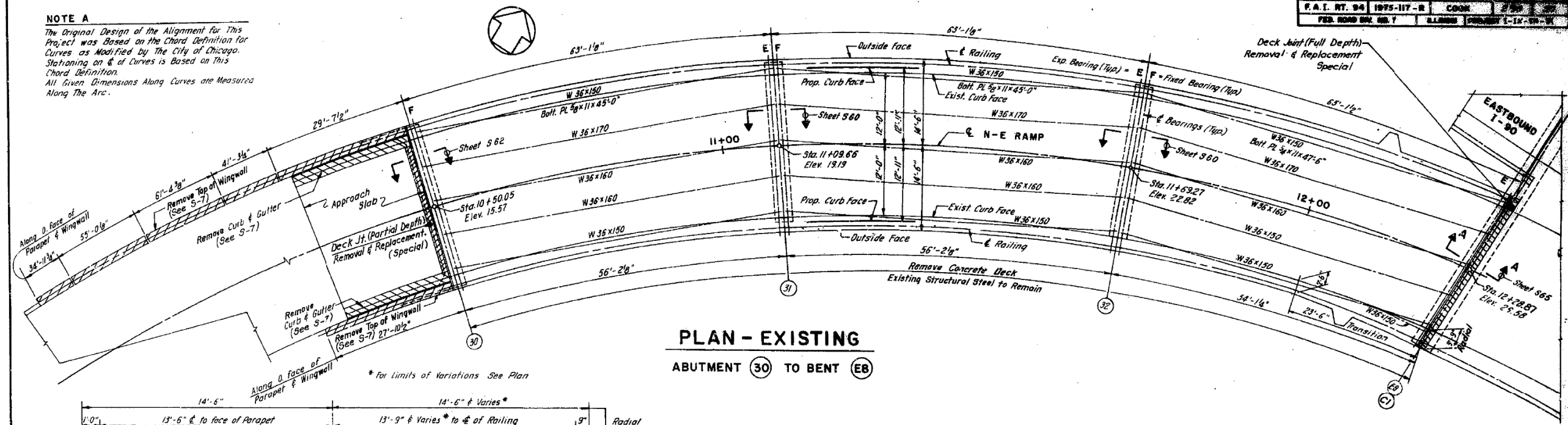
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1804
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

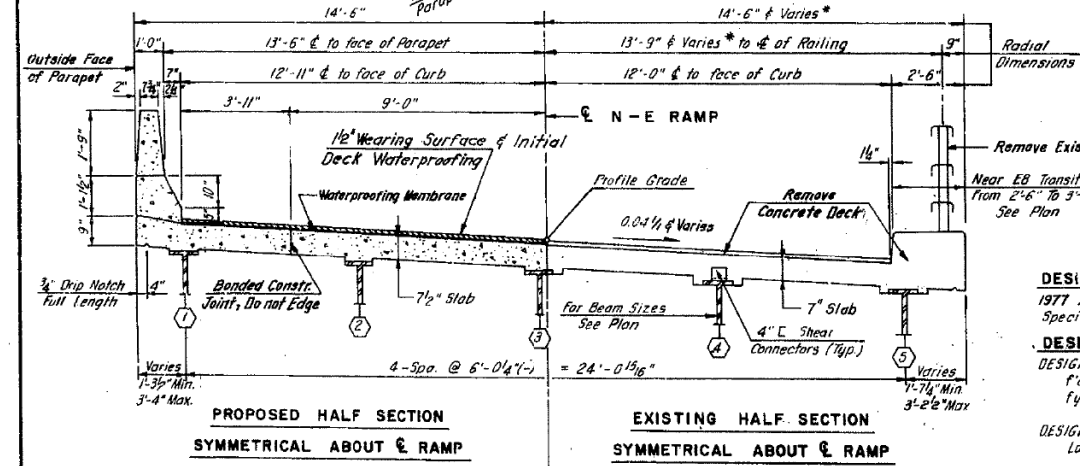
NOTE A

The Original Design of the Alignment for This Project was Based on the Chord Definition for Curves as Modified by The City of Chicago. Stationing on Δ of Curves is Based on this Chord Definition. All Given Dimensions Along Curves are Measured Along The Arc.



PLAN - EXISTING

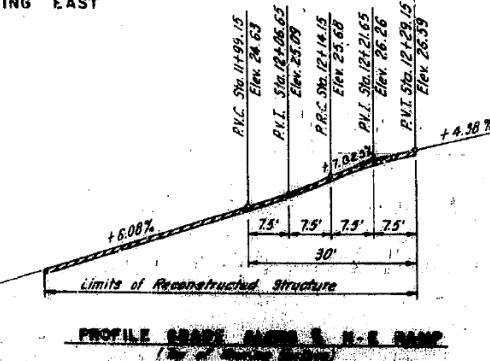
ABUTMENT (30) TO BENT (E8)



TYPICAL DECK CROSS SECTION

WORK TO BE PERFORMED

- 1 - REMOVE EXISTING DECK SLAB, TOP OF WINGWALL AND CURB & GUTTER AS SHOWN ON PLAN & IN CROSS SECTION
- 2 - TAG-OUT AND REPLACE ALL EXIST. GAUGHITED EXPANSION BEARINGS WITH ELASTOMERIC TYPE I BEARINGS, CLEAN AND PAINT FIXED BEARINGS
- 3 - RECONSTRUCT DECK SLAB USING EPOXY COATED TOP REINFORCEMENT, WATERPROOF AND RESURFACE WITH 1/2" BITUMINOUS SURFACE COURSE
- 4 - MODIFY TOP OF WINGWALLS.
- 5 - REPAIR SUBSTRUCTURES SEE SPECIAL PROVISIONS.



DESIGN SPECIFICATIONS
1977 A.A.S.H.T.O. and Interim Specifications As Applicable

DESIGN CRITERIA
DESIGN STRESSES
f'c = 3500 psi Deck Slab, Curb, Parapet
fy = 60,000 psi Reinforcement

DESIGN METHOD:
Load Factor Design

LOADING
HS 20-44 (New Construction)
2.5% Future Wearing Surface

Use Composite Construction. Permanent Forms Will Not Be Permitted in Forming Concrete Deck.

CURVE DATA
P.I. Sta. 11+13.49
 $\Delta = 95^\circ 14' 30.87''$
D = 22' 59' 40"
R = 250.00'
T = 273.99'
L = 413.40'
E = 120.90'
P.C. Sta. 8+39.51
P.T. Sta. 12+34.91
S.E. = 0.04%

Superelevation Transition
From 0.04% @ Sta. 12+100
To 0.015% @ Sta. 12+25 N. of Δ
To 0.0285% @ Sta. 12+25 S. of Δ

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUBSTR	TOTAL
Protective Coat	Sq. Yd.	252		252
Waterproofing Membrane System	Sq. Yd.	520		520
Bit. Concrete Surface Course	Ton	43		43
Class I Concrete	Cu. Yd.	208.5	0.7	209.2
Reinforcement Bars	Lb.	13,210	80	13,290
Reinforcement Bars (Epoxy Coated)	Lb.	26,790		26,790
Concrete Removal	Cu. Yd.	22.1	0.7	22.8
Mechanically Expanded Joint 2"	Lin. Ft.	33		33
Preformed Joint Sealer 2 1/2"	Lin. Ft.	87		87
Furnish and Install Elast. Bearings Type I	Eq.	16		16
Jack: Existing Stringer	Eq.	16		16
Repair Concrete Structures	Sq. Ft.	156		156
Structural Steel	Lb.	1980		1980
Deck Jt. (Full Depth) Removal & Replacement Sp.	Sq. Yd.	7		7
Deck Jt. (Partial Depth) Removal & Replacement Sp.	Sq. Yd.	4		4
Removal of Existing Superstructure No. 1	Eq.	1		1
Epoxy Mortar Repair	Cu. Ft.		8.7	8.7
Jacking & Crissling	Each		1	1
Expansion Bolts 3/4" x 10"	Each		4	4
Expansion Bolts 3/4" x 15"	Each		4	4

GENERAL NOTES N-E RAMP

CALCULATED WEIGHT OF STRUCTURAL STEEL = 1980 Lbs

ALL NEW STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH TWO COATS OF BASIC LEAD SILICO CHROMATE PAINT.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDES NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYSTEM IS APPLIED.

SPECIAL CARE SHALL BE TAKEN IN COMPACTING BITUMINOUS CONCRETE SURFACE ALONG EXPANSION JOINTS TO ACHIEVE PROPER DENSITY AND TO FORM 1/4" LIP. SMALLER ROLLERS AND STEEL PLATES SHALL BE USED FOR THIS PURPOSE AS DIRECTED BY THE ENGINEER.

ALL REINFORCEMENT BARS SHALL CONFORM TO A.A.S.H.T.O. M-31 GRADE 60 OR M-53 GRADE 60.

Wingwalls are Included in Superstructure Quantities

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
GENERAL PLAN
NORTH - EAST RAMP

FILE NAME: D:\V161749-P\WINT-accomonline.local\AECOM_D502_NAY\Transportation\6026938_CirclePhase_I\0000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing317



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PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
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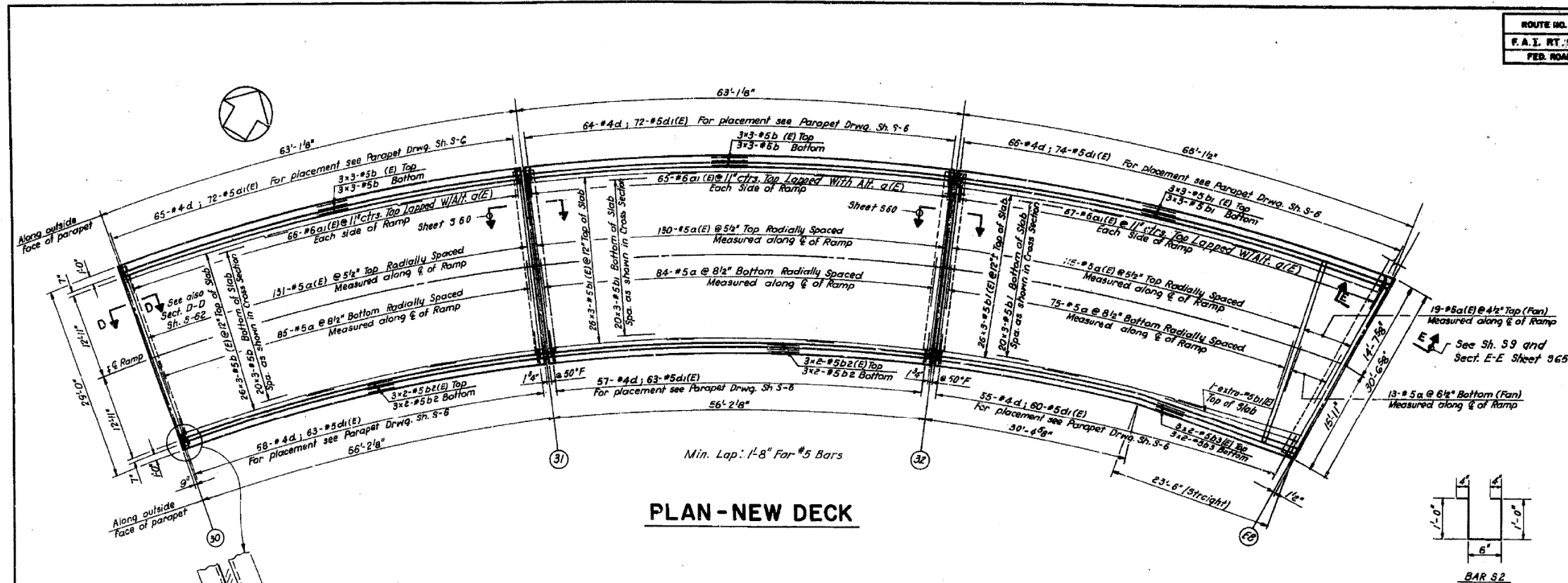
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1805
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1973-R7-R	COOK	290	31
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT 1-TR-04-94		

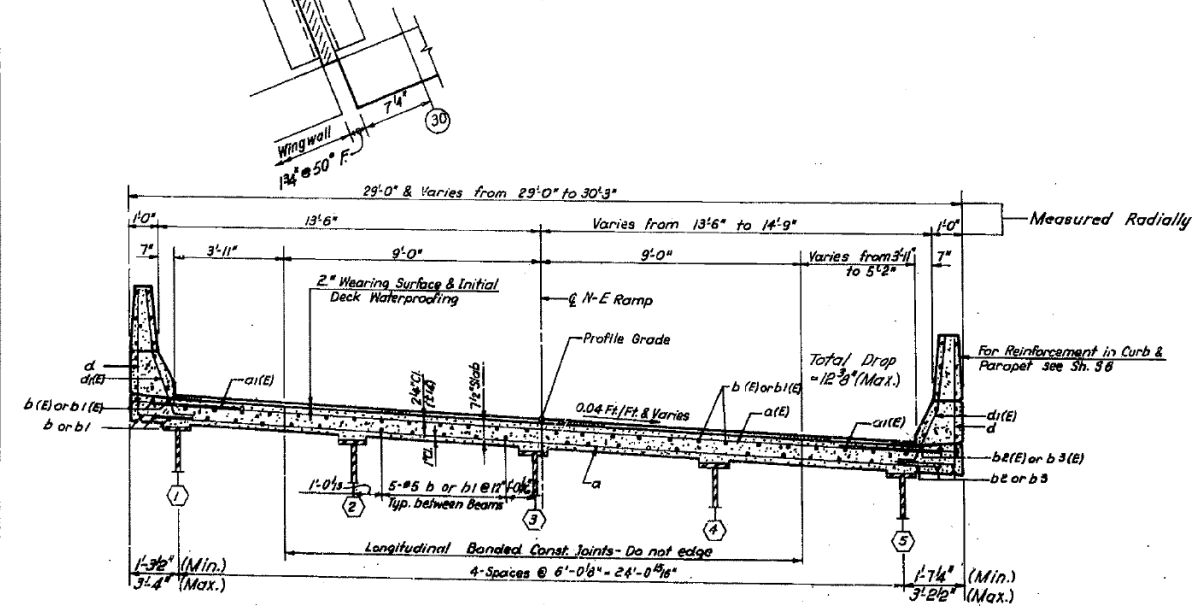


PLAN-NEW DECK

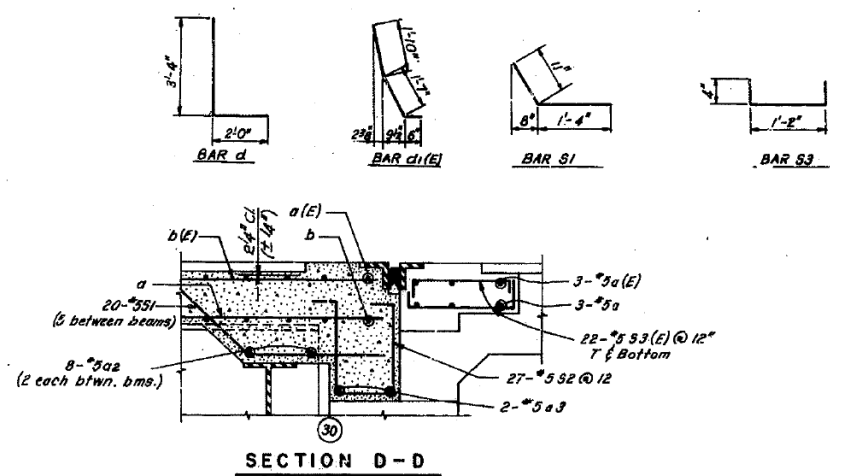
BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
d2	#5	5'-0"	—
a(E)	#5	27'-0"	—
a	#5	27'-0"	—
a1(E)	#6	4'-0"	—
a3	#6	21'-6"	—
b	#5	22'-3"	—
b1(E)	#5	22'-3"	—
b1	#5	22'-9"	—
b1(E)	#5	22'-9"	—
b2	#5	29'-3"	—
b2(E)	#5	29'-3"	—
b3	#5	27'-3"	—
b3(E)	#5	27'-3"	—
d	#4	5'-4"	L
d1(E)	#5	3'-11"	L
S1	#5	21'-3"	L
S2	#5	3'-2"	L
S3(E)	#5	1'-10"	L
Structural Steel		Lbs.	1380
Reinforcement Bars		Lbs.	14230
Reinf. Bars (Epoxy Coated)		Lbs.	21990
Class X Concrete		Cu. Yd.	128.1
Waterproofing Membrane System		Sq. Yd.	520
Moisture Exp. JT. 2"		Lin. Ft.	33
Preformed JT. Sealer 2 1/2"		Lin. Ft.	87
Bitum. Conc. Surf. Course		Ton.	43
Deck Jt. (Partial Depth) Removal		Sq. Yd.	4

Reinforcement Bars designated (E) shall be Epoxy coated. See special Provisions.



TYPICAL DECK CROSS SECTION



SECTION D-D

NOTE:
 Bars Indicated Thus; 20-#3-#5, etc., Indicate 20 Lines of Bars With 3 Lengths per Line.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
 SUPERSTRUCTURE
 NORTH - EAST RAMP
 F.A.I. RT. 94 COOK COUNTY SECTION 310
 CHRISTIAN LEONARD ARCH.
 CHICAGO, ILLINOIS

Rev. 1-18-80 CIR

FILE NAME: DWG:\161749-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing318



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PLOT SCALE =	N.T.S	CHECKED -	REVISD -
PLOT DATE =	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

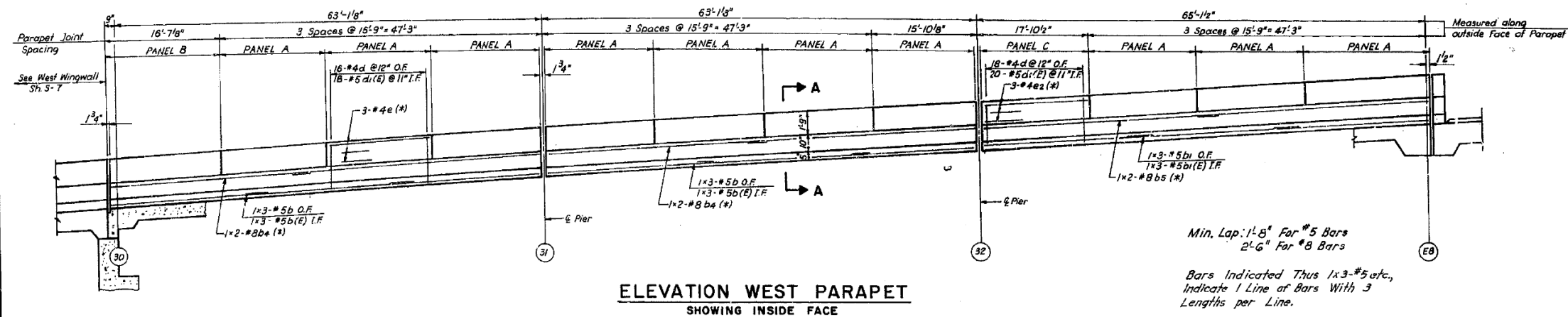
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90/94/290	2014-013R&B-R	COOK	1972	1806

CONTRACT NO. 60X93

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	32
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT E-1X-94-31		



ELEVATION WEST PARAPET
SHOWING INSIDE FACE

Min. Lap: 1'-8" For #5 Bars
2'-6" For #8 Bars
Bars Indicated Thus 1x3-#5 etc.,
Indicate 1 Line of Bars With 3
Lengths per Line.

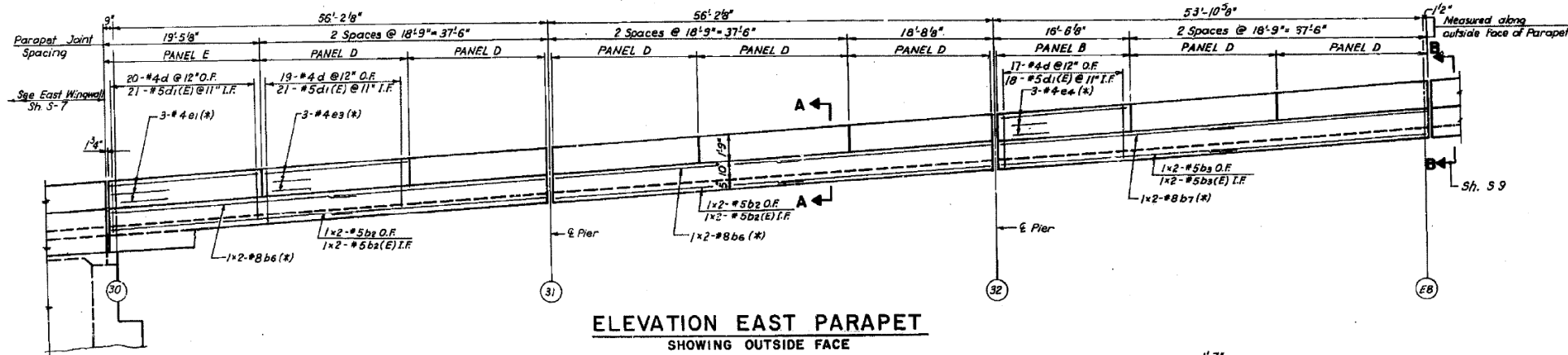
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
b	6	#5	22'-3"	
b(E)	6	#5	22'-3"	
b1	3	#5	22'-9"	
b1(E)	3	#5	22'-9"	
b2	4	#5	29'-3"	
b2(E)	4	#5	29'-3"	
ba	2	#5	27'-9"	
ba(E)	2	#5	27'-9"	
b4	4	#8	33'-0"	
b5	2	#8	33'-8"	
b6	4	#8	29'-6"	
b7	2	#8	28'-2"	
e	30	#4	15'-4"	
e1	3	#4	19'-1"	
e2	3	#4	17'-6"	
e3	21	#4	18'-4"	
e4	6	#4	16'-2"	

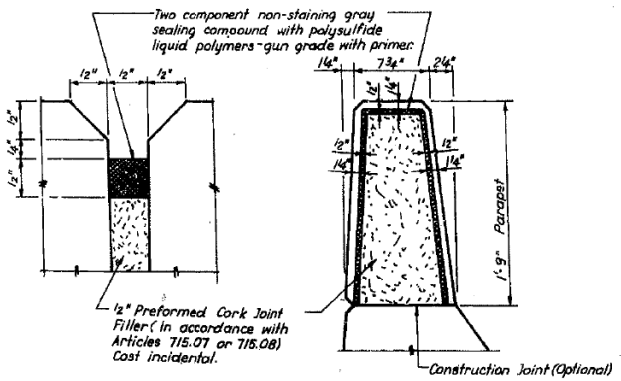
Reinforcement Bars	Lbs.	2090
Reinforcement Bars (Epoxy Coated)	Lbs.	2090
Class X Concrete	Cu. Yd.	39.7
Protective Coat	Sq. Yd.	149

Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.
For Bars d & d1(E) See Sh. 55

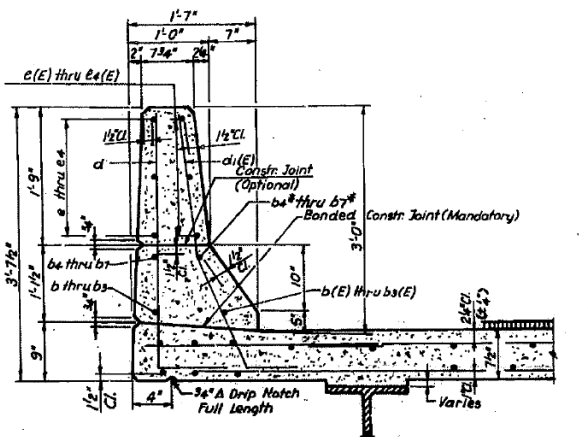
*** ASTERISK DESIGNATION**
Reinforcement bars Designated (*) shall be placed on the Outside Face of the Parapet or Wingwall, With an Equal Number of bars Placed on the Inside face. Bars Placed on the Outside Face shall be Uncoated and Appear in the "Bill of Material" Under the Non-Designated Number Column. Bars Placed on the Inside Face shall be Epoxy Coated and Appear in the "Bill of Material" Under the (E) Symbol.



ELEVATION EAST PARAPET
SHOWING OUTSIDE FACE



DETAILS OF PARAPET JOINT



SECTION A-A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
PARAPETS
NORTH - EAST RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

USER NAME =	ahmad,issa	DESIGNED -	REVISD -
PLOT SCALE =	N.T.S	CHECKED -	REVISD -
PLOT DATE =	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1807
				CONTRACT NO. 60X93

FOR INFORMATION ONLY

for Review

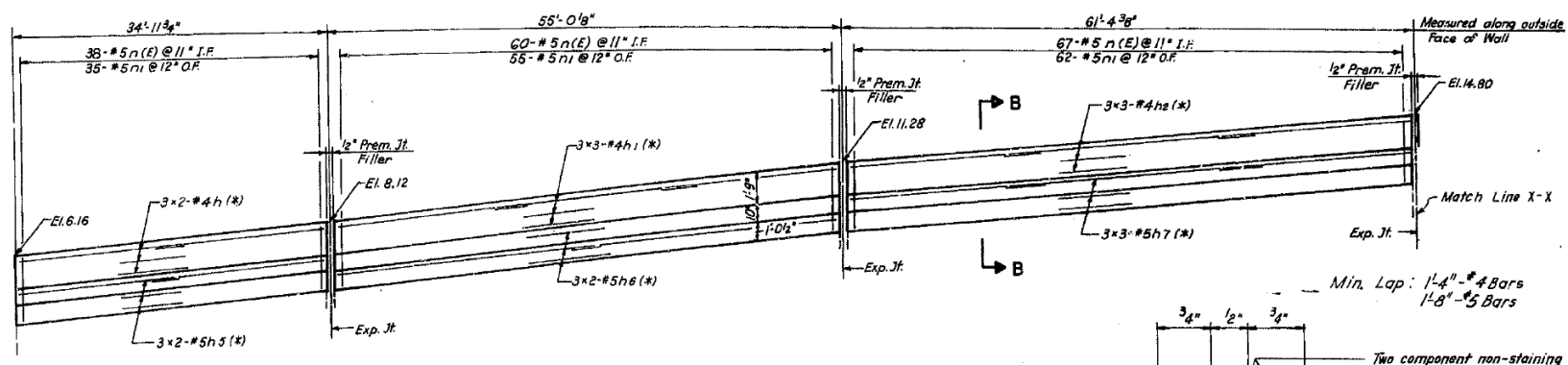
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F. A. I. RT. 94	1975-117-R	COOK	290	33
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT 7-IX-94-3()		

NOTE:
Bars Indicated Thus; 3x2-#4 etc., Indicate 3 Lines of Bars With 2 Lengths per Line.

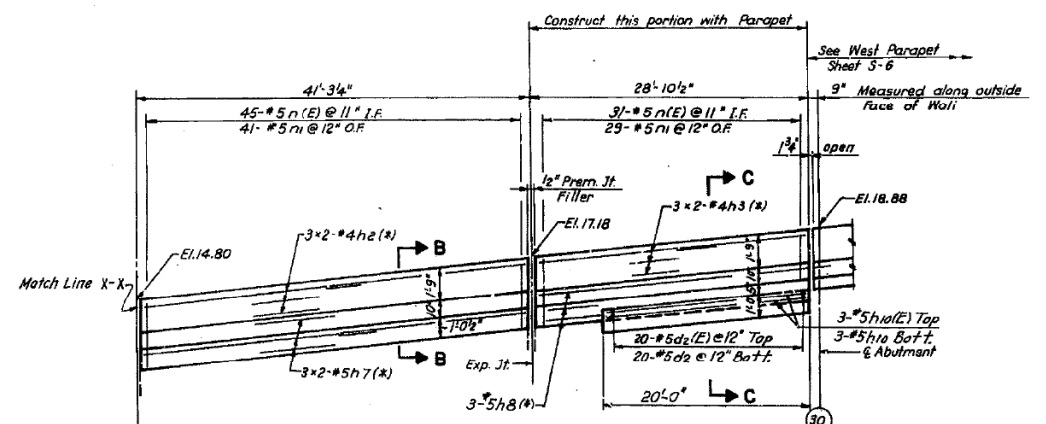
BILL OF MATERIAL

BAR	NO. (E)	SIZE	LENGTH	SHAPE	
d2(E)	40	#5	3'-0"		
d2	40	#5	3'-0"		
h1	6	#4	18'-0"		
h1*	9	#4	19'-1"		
h2*	15	#4	21'-3"		
h3	6	#4	14'-11"		
h4	6	#4	14'-1"		
h5*	6	#5	18'-2"		
h6*	6	#5	28'-2"		
h7*	15	#5	21'-8"		
h8*	3	#5	28'-0"		
h9*	3	#5	28'-10"		
h10	6	#5	19'-8"		
h10(E)	6	#5	19'-8"		
n(E)	270	#5	3'-6"		
n1	249	#5	4'-4"		
Reinforcement Bars					
				Lbs.	2630
Reinforcement Bars (Epoxy Coat)					
				Lbs.	2550
Class X Concrete					
				Cu. Yd.	40.7
Concrete Removal					
				Cu. Yd.	22.1
Protective Coat					
				Sq. Yd.	103

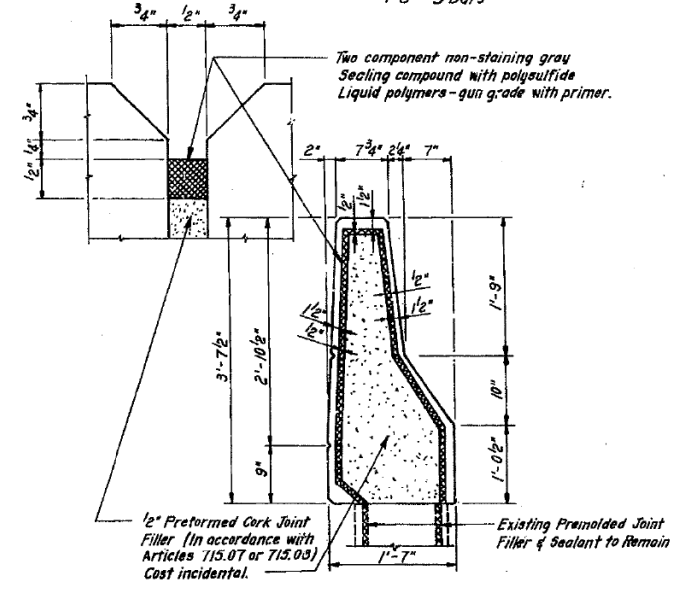
* Includes Top of Wingwall's.
* For Asterisk Designation, See Sht. 56.
For (E) Designation, See Sh. 55.



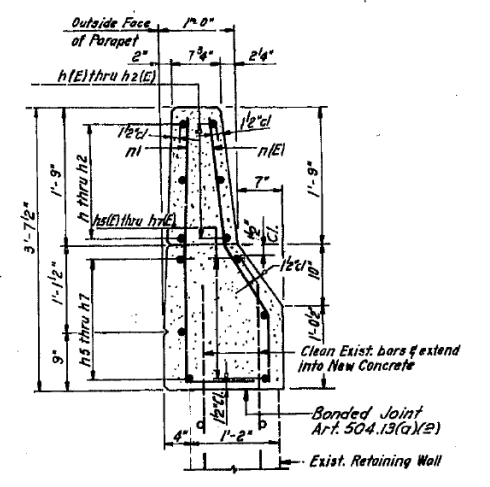
ELEVATION WEST WINGWALL
SHOWING INSIDE FACE



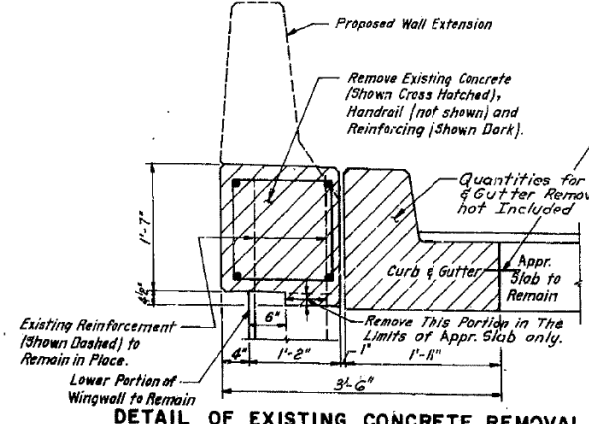
ELEVATION WEST WINGWALL
SHOWING INSIDE FACE



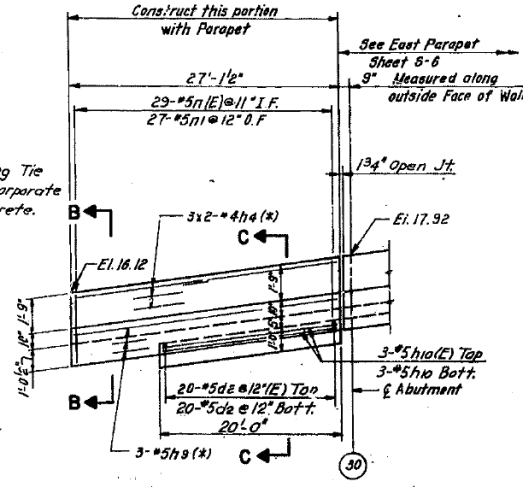
WINGWALL EXPANSION JOINT DETAIL



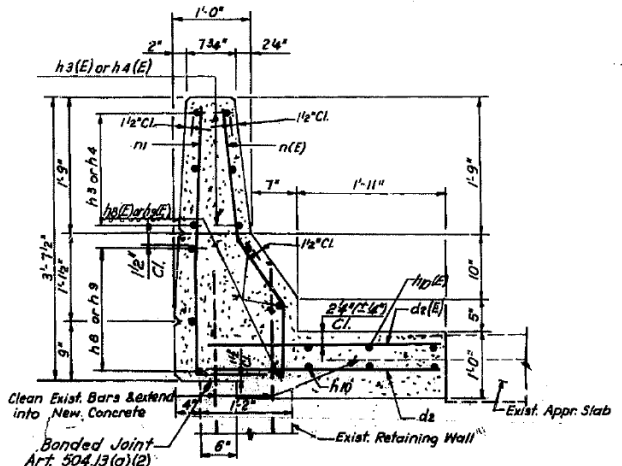
SECTION B - B



DETAIL OF EXISTING CONCRETE REMOVAL AT WINGWALL



ELEVATION EAST WINGWALL
SHOWING OUTSIDE FACE



SECTION C - C

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
WINGWALLS
NORTH - EAST RAMP
F. A. I. RT. 94
COOK COUNTY SECTION 1975-87-R
CHRISTIAN, ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

Rev. 1-18-80 CJR

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

FILE NAME: DWG:\617479-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Plans\33906-60X93-SXX-Existing320



USER NAME =	ahmad,issa	DESIGNED -	REVISD -
PLOT SCALE =	N.T.S	CHECKED -	REVISD -
PLOT DATE =	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

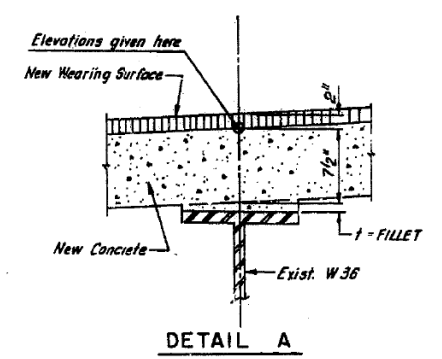
EXISTING RECORD DRAWINGS

F. A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1808
				CONTRACT NO. 60X93
				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

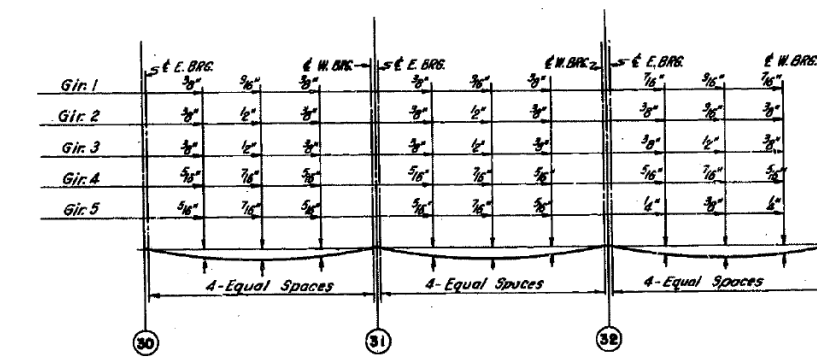
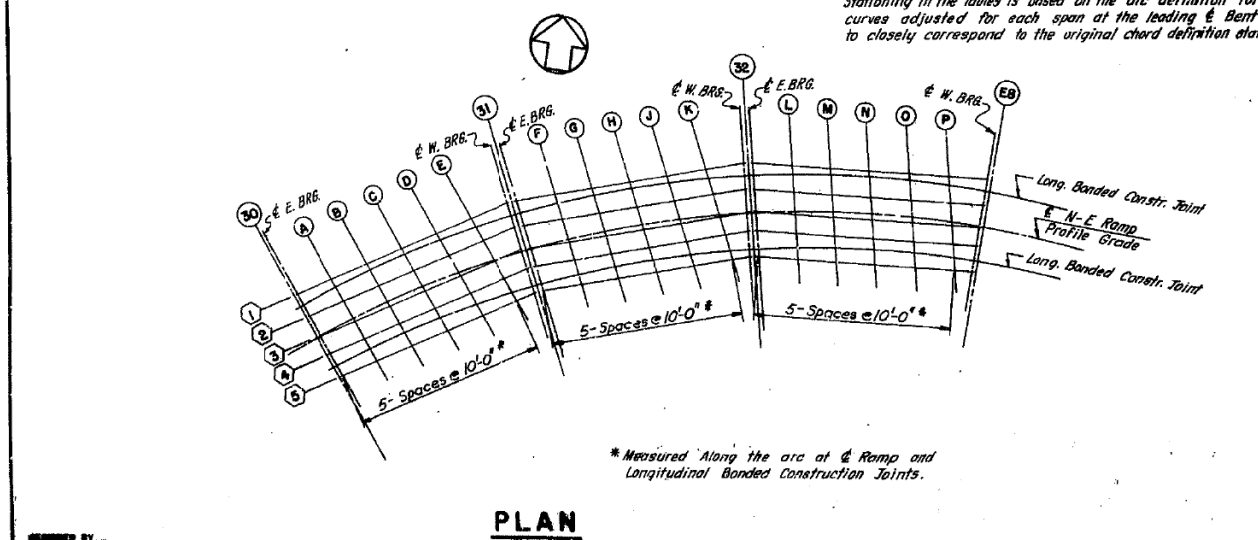
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BRG ABUT. 30	1050.766	-12.954	16.003	16.003	BRG ABUT. 30	1050.783	-6.892	15.762	15.762	BRG ABUT. 30	1050.803	0.000	15.487	15.487	BRG ABUT. 30	1050.831	9.000	15.129	15.129
A	1060.247	-11.981	16.941	16.941	A	1060.408	-5.924	16.313	16.313	A	1060.803	0.000	16.095	16.117	A	1061.205	9.000	15.760	15.778
B	1069.784	-11.398	17.097	17.133	B	1070.252	-5.344	16.883	16.918	B	1070.803	0.000	16.703	16.738	B	1071.578	9.000	16.393	16.421
C	1079.350	-11.176	17.670	17.716	C	1080.045	-5.156	17.471	17.513	C	1080.803	0.000	17.311	17.352	C	1081.952	9.000	17.021	17.056
D	1089.919	-11.346	18.258	18.296	D	1089.838	-5.399	18.079	18.109	D	1090.803	0.000	17.919	17.953	D	1092.325	9.000	17.652	17.679
E	1098.460	-11.899	18.861	18.881	E	1099.600	-5.953	18.692	18.712	E	1100.803	0.000	18.527	18.545	E	1102.698	9.000	18.282	18.294
W BRG BENT 31	1108.974	-12.955	19.542	19.542	W BRG BENT 31	1108.957	-6.893	19.299	19.299	W BRG BENT 31	1108.937	0.000	19.022	19.022	W BRG BENT 31	1108.909	9.000	18.660	18.660
E BRG	1110.373	-12.955	19.627	19.627	E BRG	1110.390	-6.893	19.386	19.386	E BRG	1110.410	0.000	19.111	19.111	E BRG	1110.439	9.000	18.753	18.753
F	1119.854	-11.982	20.165	20.185	F	1120.095	-5.925	19.937	19.958	F	1120.410	0.000	19.715	19.741	F	1120.812	9.000	19.384	19.402
G	1129.391	-11.388	20.721	20.757	G	1129.859	-5.345	20.508	20.542	G	1130.410	0.000	20.327	20.362	G	1131.185	9.000	20.014	20.045
H	1138.958	-11.176	21.294	21.340	H	1139.652	-5.156	21.095	21.137	H	1140.410	0.000	20.935	20.976	H	1141.599	9.000	20.645	20.690
J	1148.528	-11.346	21.883	21.920	J	1149.445	-5.358	21.699	21.733	J	1150.410	0.000	21.543	21.577	J	1151.932	9.000	21.276	21.303
K	1158.067	-11.899	22.485	22.507	K	1159.207	-5.952	22.316	22.336	K	1160.410	0.000	22.151	22.169	K	1162.306	9.000	21.907	21.918
W BRG BENT 32	1168.578	-12.954	23.166	23.166	W BRG BENT 32	1168.562	-6.892	22.923	22.923	W BRG BENT 32	1168.542	0.000	22.646	22.646	W BRG BENT 32	1168.514	9.000	22.284	22.284
E BRG	1169.980	-12.954	23.251	23.251	E BRG	1169.997	-6.892	23.010	23.010	E BRG	1170.017	0.000	22.735	22.735	E BRG	1170.045	9.000	22.377	22.377
L	1179.461	-11.986	23.789	23.812	L	1179.703	-5.929	23.561	23.582	L	1180.017	0.000	23.343	23.365	L	1180.419	9.000	23.008	23.027
M	1189.093	-11.396	24.345	24.385	M	1189.466	-5.353	24.132	24.168	M	1190.017	0.000	23.951	23.987	M	1190.792	9.000	23.639	23.669
N	1198.765	-11.189	24.919	24.965	N	1199.259	-5.169	24.720	24.767	N	1200.017	0.000	24.560	24.601	N	1201.186	9.000	24.276	24.311
O	1208.132	-11.354	25.462	25.503	O	1209.051	-5.377	25.332	25.369	O	1210.017	0.000	25.236	25.270	O	1211.539	9.000	25.037	25.064
P	1217.673	-11.921	26.077	26.107	P	1218.812	-5.975	26.016	26.036	P	1220.017	0.000	25.969	25.987	P	1221.913	9.000	25.819	25.828
W BRG BENT EB	1229.857	-13.195	26.694	26.694	W BRG BENT EB	1229.032	-7.025	26.565	26.565	W BRG BENT EB	1228.044	0.000	26.415	26.415	W BRG BENT EB	1226.692	9.000	26.094	26.094
BRG ABUT. 30	1050.777	-9.000	15.846	15.846	BRG ABUT. 30	1050.801	-0.829	15.520	15.520	BRG ABUT. 30	1050.819	5.232	15.279	15.279	BRG ABUT. 30	1050.839	11.295	15.038	15.038
A	1060.430	-9.000	16.432	16.453	A	1060.741	0.132	16.086	16.108	A	1061.007	6.189	15.860	15.878	A	1061.286	12.246	15.635	15.654
B	1070.062	-9.000	17.019	17.054	B	1070.742	0.697	16.672	16.707	B	1071.258	6.738	16.461	16.492	B	1071.799	12.779	16.233	16.283
C	1079.735	-9.000	17.606	17.648	C	1080.773	0.861	17.275	17.316	C	1081.537	6.877	17.081	17.116	C	1082.340	13.490	16.924	16.986
D	1089.387	-9.000	18.193	18.228	D	1090.801	0.624	17.894	17.928	D	1091.811	6.605	17.716	17.746	D	1092.873	12.581	17.542	17.569
E	1099.040	-9.000	18.780	18.801	E	1100.793	-0.012	18.527	18.545	E	1102.045	5.923	18.566	18.578	E	1103.359	11.851	18.208	18.219
W BRG BENT 31	1108.963	-9.000	19.383	19.383	W BRG BENT 31	1108.939	-0.830	19.055	19.055	W BRG BENT 31	1108.921	5.231	18.811	18.811	W BRG BENT 31	1108.901	11.294	18.568	18.568
E BRG	1110.384	-9.000	19.470	19.470	E BRG	1110.408	-0.830	19.144	19.144	E BRG	1110.427	5.231	18.903	18.903	E BRG	1110.446	11.294	18.662	18.662
F	1120.037	-9.000	20.057	20.077	F	1120.348	0.131	19.710	19.732	F	1120.614	6.188	19.484	19.502	F	1120.868	12.245	19.259	19.278
G	1129.689	-9.000	20.643	20.678	G	1130.350	0.697	20.296	20.331	G	1130.965	6.738	20.085	20.118	G	1131.406	12.778	19.077	19.107
H	1139.342	-9.000	21.230	21.272	H	1140.380	0.861	20.899	20.940	H	1141.144	6.877	20.705	20.740	H	1141.947	12.890	20.513	20.548
J	1148.994	-9.000	21.817	21.852	J	1150.408	0.625	21.518	21.552	J	1151.418	6.605	21.340	21.368	J	1152.480	12.581	21.166	21.193
K	1158.647	-9.000	22.404	22.425	K	1160.401	-0.011	22.151	22.169	K	1161.612	5.923	21.990	22.002	K	1162.966	11.852	21.833	21.843
W BRG BENT 32	1168.568	-9.000	23.007	23.007	W BRG BENT 32	1168.544	-0.829	22.679	22.679	W BRG BENT 32	1168.526	5.233	22.435	22.435	W BRG BENT 32	1168.506	11.295	22.192	22.192
E BRG	1169.991	-9.000	23.094	23.094	E BRG	1170.015	-0.830	22.768	22.768	E BRG	1170.039	5.232	22.527	22.527	E BRG	1170.053	11.294	22.286	22.286
L	1179.644	-9.000	23.681	23.701	L	1179.956	0.127	23.335	23.356	L	1180.221	6.184	23.108	23.127	L	1180.501	12.240	22.883	22.899
M	1189.296	-9.000	24.268	24.306	M	1189.957	0.658	23.920	23.955	M	1190.472	6.729	23.710	23.740	M	1191.013	12.768	23.501	23.527
N	1198.949	-9.000	24.854	24.901	N	1199.987	0.847	24.524	24.565	N	1200.751	6.863	24.333	24.368	N	1201.554	12.876	24.150	24.179
O	1208.601	-9.000	25.441	25.483	O	1210.014	0.606	25.214	25.248	O	1211.024	6.586	23.981	24.008	O	1212.086	12.582	24.938	24.979
P	1218.254	-9.000	26.027	26.071	P	1220.006	-0.034	25.969	25.987	P	1221.257	5.899	23.810	23.811	P	1222.571	11.826	23.777	23.783
W BRG BENT EB	1229.300	-9.000	26.607	26.607	W BRG BENT EB	1229.167	-0.859	26.434	26.434	W BRG BENT EB	1227.259	5.304	26.227	26.227	W BRG BENT EB	1226.304	11.464	26.004	26.004

ROUTE NO.	SECTION	COUNTY	DATE
F.A.I. RT. 94	1975-117-R	COOK	290
FED. ROAD DIST. NO. 7	ALHAMBRA	FRANKLIN	11-94-31



FILLET HEIGHTS
To determine "t" as shown in DETAIL A: After all existing concrete superstructure has been demolished and removed from each span, elevations of the top flanges of the beams shall be taken at intervals shown in Plan. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown in tables minus slab thickness, equals the fillet heights "t" above the top flange of beams.

NOTE: All elevations in the tables are given at the top of the concrete deck as shown in DETAIL A.
STATIONING NOTE: Stationing in the Tables is based on the arc definition for curves adjusted for each span at the leading & Bent to closely correspond to the original chord definition stations.



NOTE: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
ELEVATIONS
NORTH-EAST RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTINA A. BROWN, ENGINEER
CHICAGO, ILLINOIS

USER NAME =	ahmad,issa	DESIGNED -	REVISOR -
PLOT SCALE =	N.T.S	CHECKED -	REVISOR -
PLOT DATE =	7/26/2018	DRAWN -	REVISOR -
		CHECKED -	REVISOR -
		MI, MAI	REVISOR -

FOR INFORMATION ONLY

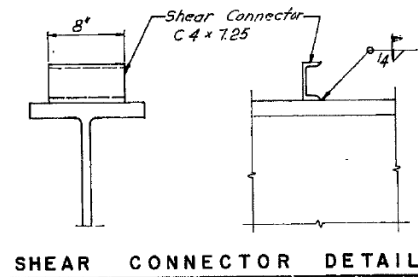
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 94	1975-117-R	COOK	290	36
FED. ROAD DIV. NO. 7		ILLINOIS PROJECT I-TX-94-3()		

BILL OF MATERIAL FOR DECK JOINT RECONSTRUCTION

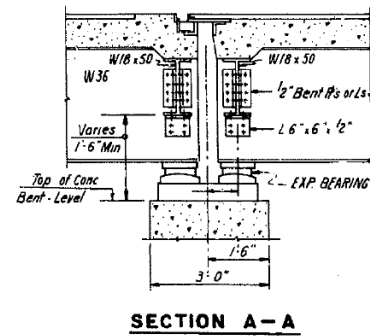
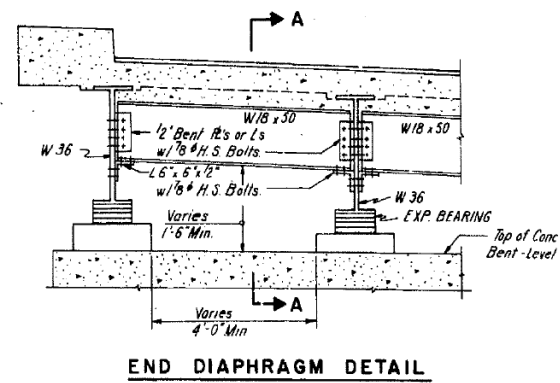
LOCATION	BAR	NO.	SIZE	LENGTH	SHAPE
BENT E8	XI(E)	24	#5	2'-6"	┌
	a4	4	#5	28'-0"	—
	a4(E)	3	#5	28'-0"	—
	ag	12	#5	1'-9"	—
	ag(E)	4	#5	1'-9"	—
a5	24	#5	2'-7"	┌	
Reinforcement Bars				Lb.	200
Reinf. Bar (Epoxy Coated)				Lb.	160
Deck Jt. (Full Depth)				Sq. Yd.	7
Removal & Replacement Special					

Quantities For Neoprene Expansion Joint 2" and Structural Steel included in Bill of Material; Sht. 95

For (E) Designation See Sht. 95.

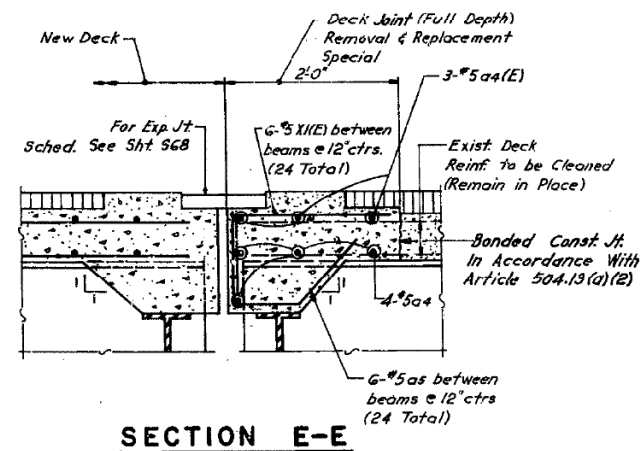
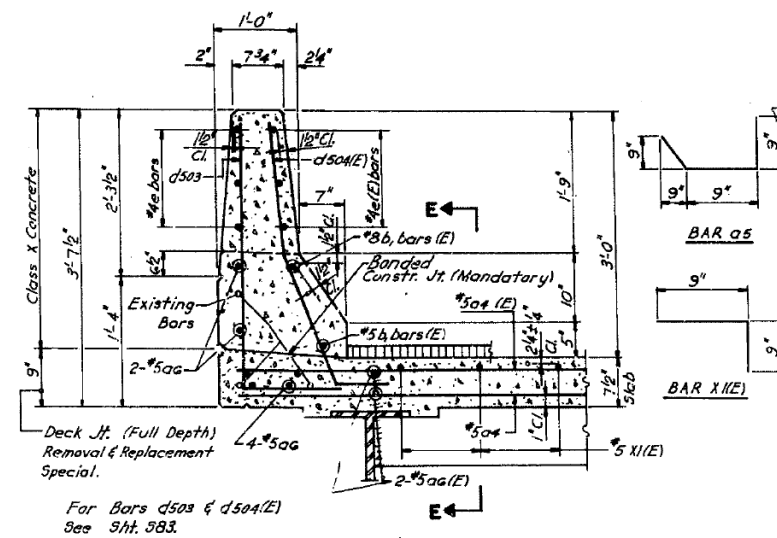


NOTE:
Top of Stringers and Diaphragms and other Structural Members Exposed by Concrete Removal shall be Cleaned and Painted Prior to Placing New Concrete. Any Shear Connectors Damaged During Concrete Removal shall be Replaced in Kind. (Cost Incidental)



JACKING NOTE
Jack Beams From Top of Bent to Replace Expansion Bearings. Place Jacks Underneath The End Diaphragms As Close To The Bearings As Possible.
Estimated Beam Reaction = 100K
Bearings Should be Replaced After Removal of Existing Deck Slab.

JACKING METHOD FOR EXP. BEARING REPLACEMENT AT RAMPS

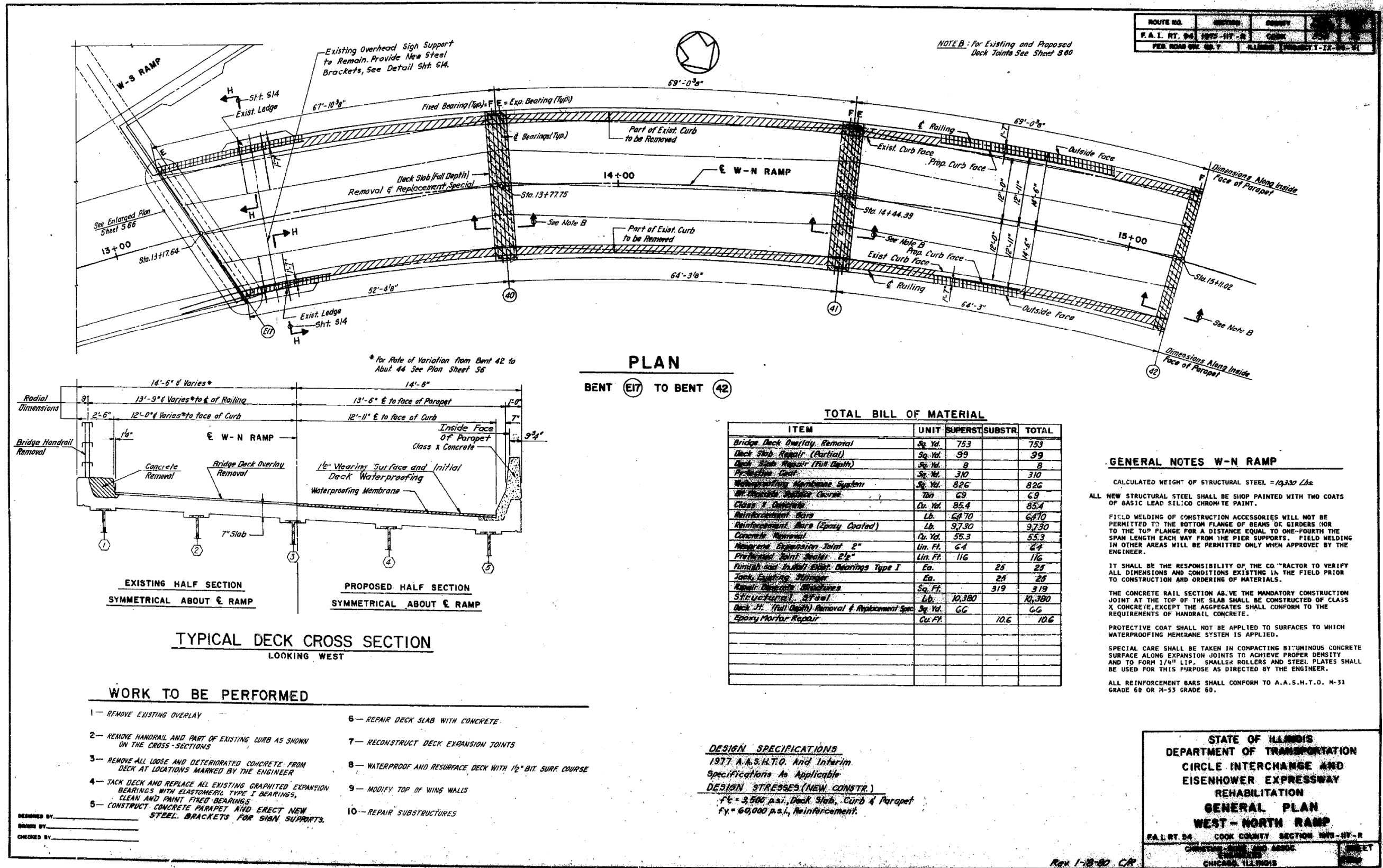


DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
SECTIONS AND DETAILS
NORTH-EAST RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROGE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
390

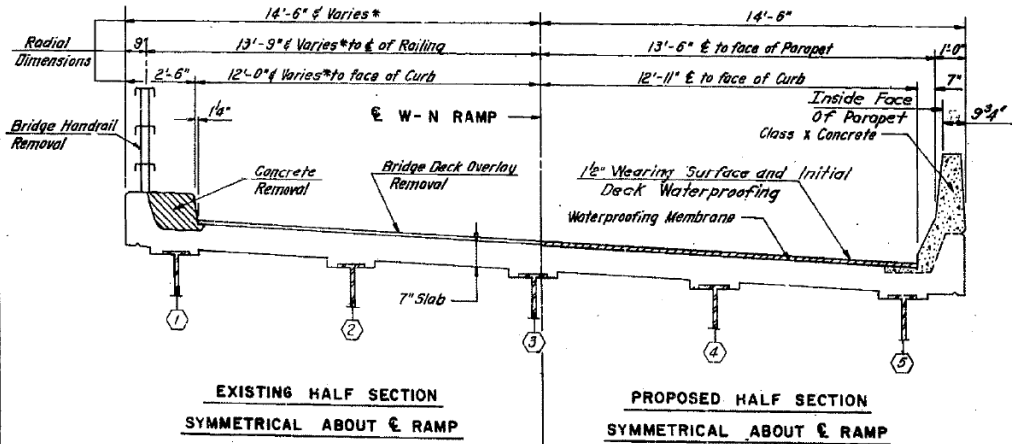
FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	SHEET
F.A.I. RT. 84	1975-117-R	COOK	1811
FED. ROAD DIST. 60X93	ILLINOIS TRANSPORTATION		

NOTE B: For Existing and Proposed Deck Joints See Sheet 800

PLAN
BENT (E17) TO BENT (42)



TYPICAL DECK CROSS SECTION
LOOKING WEST

TOTAL BILL OF MATERIAL			
ITEM	UNIT	SUPERSTR.	SUBSTR.
Bridge Deck Overlay Removal	Sq. Yd.	753	753
Deck Slab Repair (Partial)	Sq. Yd.	99	99
Deck Slab Repair (Full Depth)	Sq. Yd.	8	8
Protective Coat	Sq. Yd.	310	310
Waterproofing Membrane System	Sq. Yd.	826	826
HP Membrane Surface Course	Ton	69	69
Class 1 Concrete	Cu. Yd.	85.4	85.4
Reinforcement Bars	Lb.	6470	6470
Reinforcement Bars (Epoxy Coated)	Lb.	9730	9730
Concrete Removal	Cu. Yd.	55.3	55.3
Measured Expansion Joint 2"	Lin. Ft.	64	64
Prefinished Joint Sealer 2 1/2"	Lin. Ft.	116	116
Finish and Install Elast. Bearings Type I	Ea.	25	25
Jack Expanding Strips	Ea.	25	25
Repair Concrete Structures	Sq. Ft.	319	319
Structural Steel	Lb.	10,380	10,380
Deck Jt. (Full Depth) Removal & Replacement Spec	Sq. Yd.	66	66
Epoxy Mortar Repair	Cu. Ft.	10.6	10.6

GENERAL NOTES W-N RAMP

CALCULATED WEIGHT OF STRUCTURAL STEEL = 10,380 Lbs.

ALL NEW STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH TWO COATS OF BASIC LEAD SILICO CHROME PAINT.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR SIDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYSTEM IS APPLIED.

SPECIAL CARE SHALL BE TAKEN IN COMPACTING BITUMINOUS CONCRETE SURFACE ALONG EXPANSION JOINTS TO ACHIEVE PROPER DENSITY AND TO FORM 1/4" LIP. SMALLER ROLLERS AND STEEL PLATES SHALL BE USED FOR THIS PURPOSE AS DIRECTED BY THE ENGINEER.

ALL REINFORCEMENT BARS SHALL CONFORM TO A.A.S.H.T.O. M-31 GRADE 60 OR M-53 GRADE 60.

WORK TO BE PERFORMED

- REMOVE EXISTING OVERLAY
- REMOVE HANDRAIL AND PART OF EXISTING CURB AS SHOWN ON THE CROSS-SECTIONS
- REMOVE ALL LOOSE AND DETERIORATED CONCRETE FROM DECK AT LOCATIONS MARKED BY THE ENGINEER
- JACK DECK AND REPLACE ALL EXISTING GRAPHITED EXPANSION BEARINGS WITH ELASTOMERIC TYPE I BEARINGS, CLEAN AND PAINT FIXED BEARINGS
- CONSTRUCT CONCRETE PARAPET AND ERECT NEW STEEL BRACKETS FOR SIGN SUPPORTS.
- REPAIR DECK SLAB WITH CONCRETE.
- RECONSTRUCT DECK EXPANSION JOINTS
- WATERPROOF AND RESURFACE DECK WITH 1/2" BIT SURF COURSE
- MODIFY TOP OF WING WALLS
- REPAIR SUBSTRUCTURES

DESIGN SPECIFICATIONS
1977 A.A.S.H.T.O. And Interim Specifications As Applicable

DESIGN STRESSES (NEW CONSTR.)
f'c = 3,500 p.s.i., Deck Slab, Curb & Parapet
fy = 60,000 p.s.i., Reinforcement.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
GENERAL PLAN
WEST-NORTH RAMP
F.A.I. RT. 84 COOK COUNTY SECTION 1975-117-R
ENGINEER
CHICAGO, ILLINOIS

DESIGNED BY _____
CHECKED BY _____

Rev. 1-18-80 CA

FILE NAME: p:\v\617479-P\INT-accomline.local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Plans\33906-60X93-SXX-Existing322



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

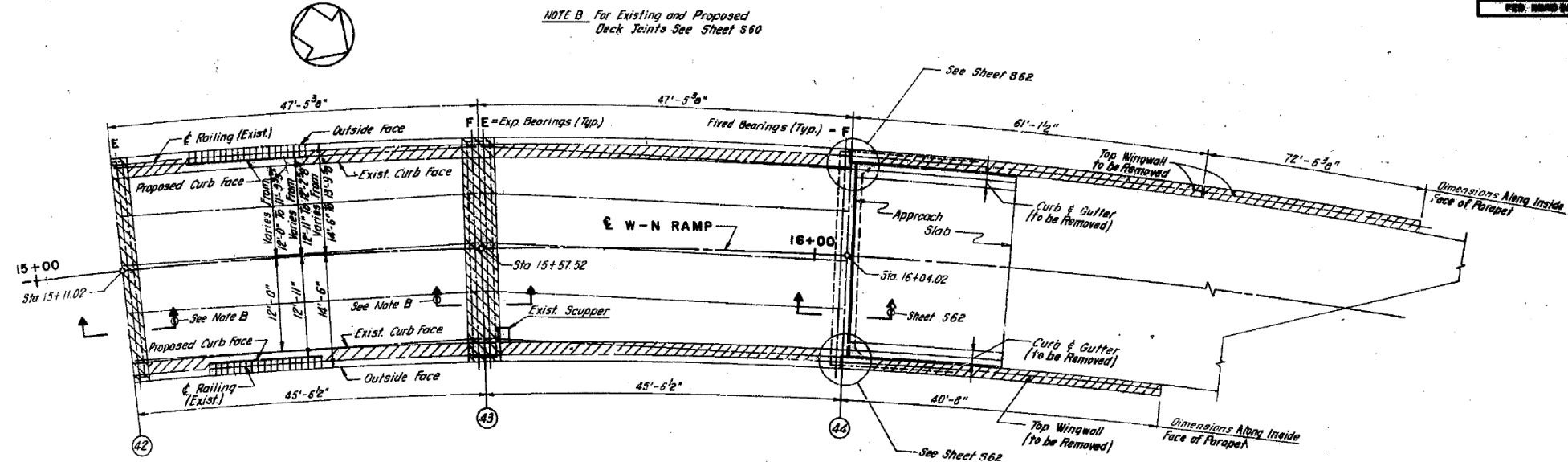
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1811
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

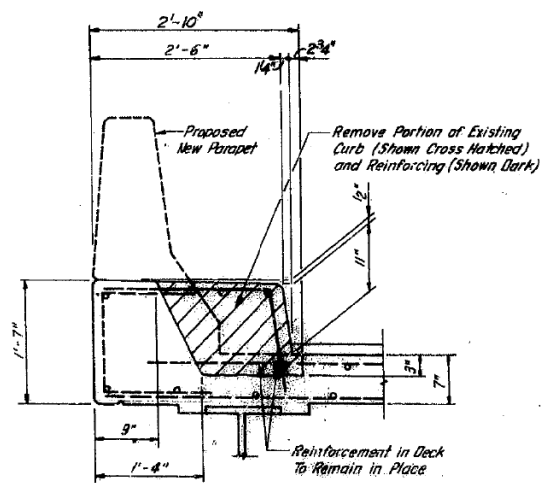
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. RT. NO.	1874-117-R	COOK	1972	1812
FED. AID PROJ. NO.	ILLINOIS PROJECT 1-12-88-11			

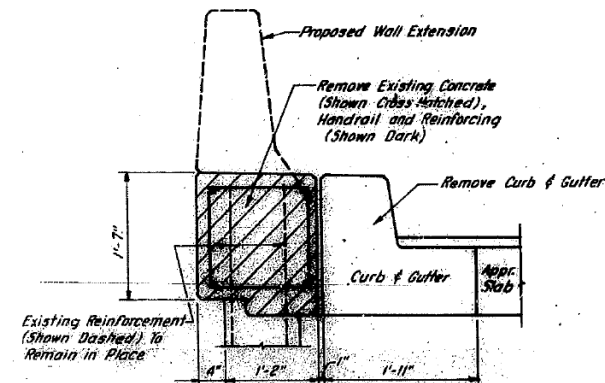


PLAN

BENT 42 TO ABUTMENT 44



REMOVAL PART OF EXISTING CURB



REMOVAL TOP WINGWALL

DETAILS OF EXISTING CONCRETE ORIGINAL

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CHIEF INTERCHANGE AND
 ENGINEERING DIVISION
 CHICAGO, ILLINOIS
 CONTRACT NO. 60X93

FILE NAME: D:\V161749-PWINT-aecomonline.local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing324



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
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PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
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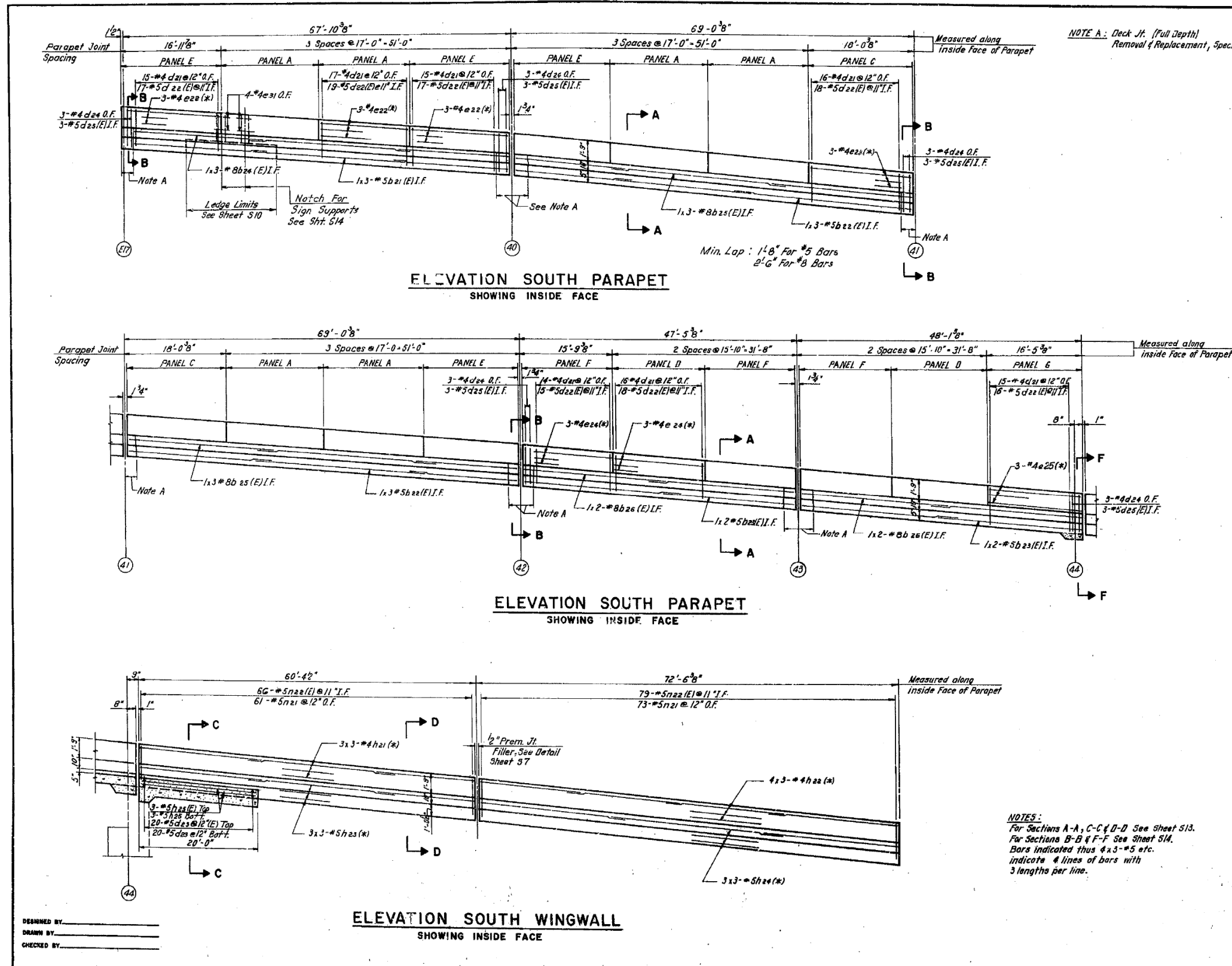
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1812
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

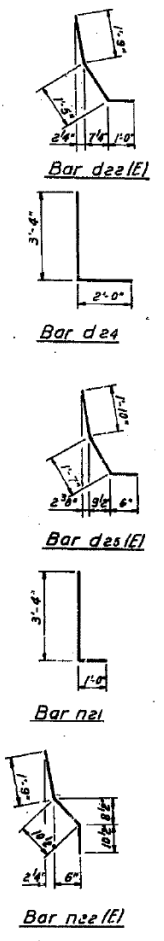
FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	38
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT 1-IX-94-31		

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
b21(E)	3	#5	23'-8"	
b22(E)	6	#5	24'-0"	
b23(E)	4	#5	24'-8"	
b24(E)	3	#8	24'-3"	
b25(E)	6	#8	24'-7"	
b26(E)	4	#8	25'-1"	
e22	30	#4	16'-8"	
e23	6	#4	17'-8"	
e24	15	#4	15'-4"	
e25	3	#4	16'-0"	
e31	8	#4	3'-4"	
d21	283	#4	2'-11"	
d22(E)	315	#5	4'-2"	
d23	20	#5	3'-0"	
d24	30	#4	5'-4"	
d25(E)	30	#5	3'-11"	
d26(E)	20	#5	3'-0"	
h21	9	#4	20'-11"	
h22	12	#4	19'-1"	
h23	9	#5	21'-2"	
h24	9	#5	25'-2"	
h25	3	#5	19'-8"	
h26	3	#5	19'-8"	
n21	134	#5	4'-4"	
n22(E)	145	#5	5'-6"	
Reinforcement Bars	Lb.	2650		
Reinf. Bars (Epoxy Coated)	Lb.	4,650		
Class X Conc. etc	Cu. Yd.	511		
Concrete Removal	Cu. Yd.	327		
Protective Coat	Sq. Yd.	180		



Reinforcement L's designated (E) shall be epoxy coated. See Special Provisions.
 (*) For Asterisk Designation See Sht. 96.

NOTES:
 For Sections A-A, C-C & D-D See Sheet 513.
 For Sections B-B & F-F See Sheet 514.
 Bars indicated thus 4x3-#5 etc. indicate 4 lines of bars with 3 lengths per line.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
 SOUTH PARAPET AND WINGWALL
 WEST - NORTH RAMP
 F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
 CHRISTIAN-ROSE AND ASSOC.
 ENGINEERS
 CHICAGO, ILLINOIS

DESIGNED BY _____
 DRAWN BY _____
 CHECKED BY _____

ELEVATION SOUTH WINGWALL
 SHOWING INSIDE FACE

FILE NAME: p:\v1617479-PWINT-aecomonline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CircleInterch\Structure_016-1718\Existing_Plans\339906-60X93-SXX-Existing325



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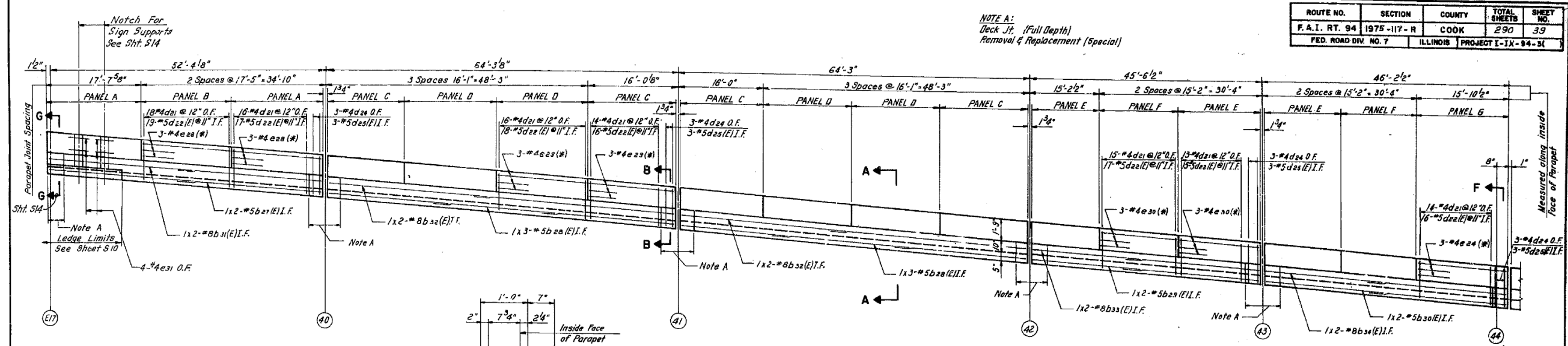
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1813
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	39
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-1X-94-31		



ELEVATION NORTH PARAPET
SHOWING OUTSIDE FACE

Min. Lap: 1'-4" For #4 Bars
1'-8" For #5 Bars
2'-6" For #8 Bars

Bars Indicated Thus 1x3#5 etc., Indicate 1 Line of Bars With 3 Lengths per Line.

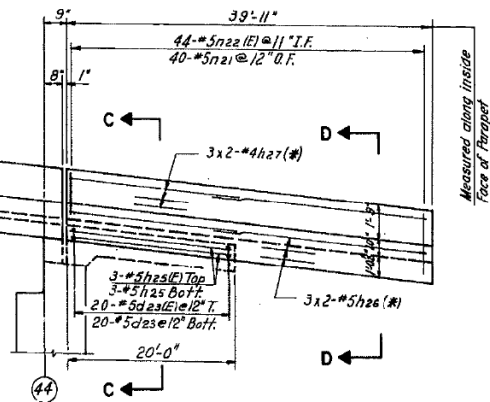
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
b21(E)	2	#5	26'-11"	
b22(E)	6	#5	22'-5"	
b23(E)	2	#5	23'-5"	
b31(E)	2	#5	23'-3"	
b32(E)	2	#8	27'-4"	
b33(E)	4	#8	33'-3"	
b34(E)	2	#8	23'-10"	
b35(E)	2	#8	24'-2"	
e22#	3	#4	15'-6"	
e22#	9	#4	17'-1"	
e22#	24	#4	15'-3"	
e22#	15	#4	14'-10"	
e21	8	#4	3'-4"	
d21	253	#4	2'-11"	
d22(E)	24	#5	4'-2"	
d23	20	#5	3'-0"	
d24	30	#4	5'-4"	
d25(E)	30	#5	3'-11"	
d26(E)	20	#5	3'-0"	
h27#	6	#4	20'-6"	
h28	3	#5	19'-8"	
h29#	6	#5	20'-8"	
h25(E)	3	#5	19'-8"	
n21	40	#5	4'-4"	
ree(E)	44	#5	3'-6"	
Reinforcement Bars	Ld.	1650		
Rein. Bars (Epoxy Coated)	Ld.	3450		
Class 2 Concrete	Cu. Yd.	34.3		
Concrete Removal	Cu. Yd.	22.6		
Protective Coat	Sq. Yd.	130		

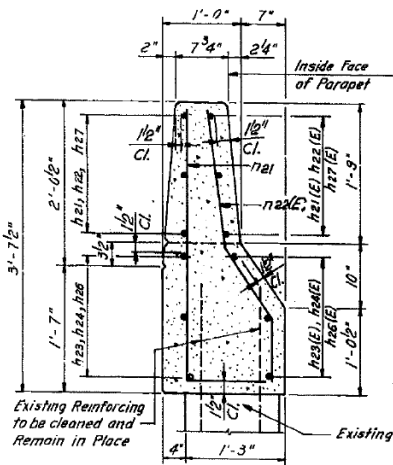
Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
NORTH PARAPET AND WINGWALL
WEST - NORTH RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN, ROGE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

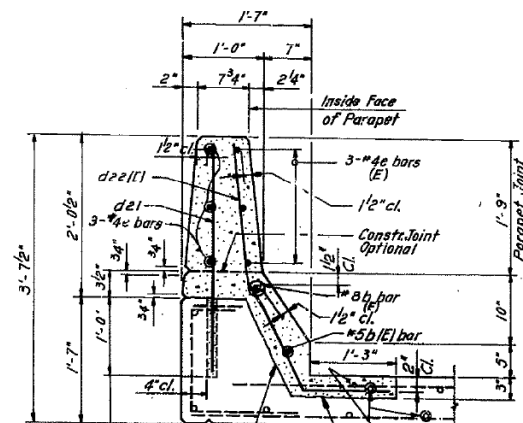
SHEET 39 OF 39



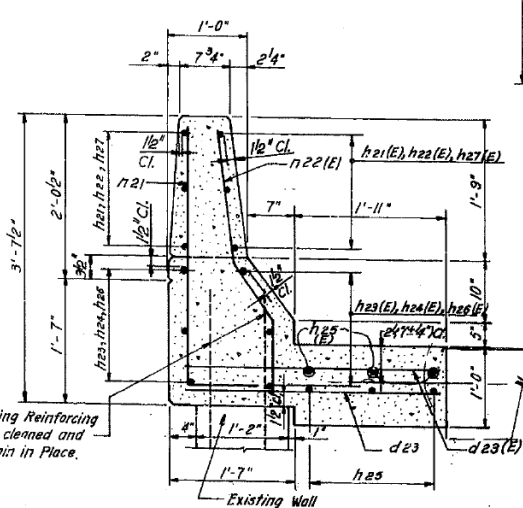
ELEVATION NORTH WINGWALL
SHOWING OUTSIDE FACE



SECTION D - D



SECTION A - A



SECTION C - C

NOTES:
For Sections B-B & F-F See Sheet 514
For Additional Notes See Sheet 512
For Bars Bending Details See Sheet 512
(R) For Asterisk Designation See Sht. 56

Rev. 1-16-80 C/R

FILE NAME: D:\V161749-PWINT-accomline.local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Plans\33906-60X93-SXX-Existing325



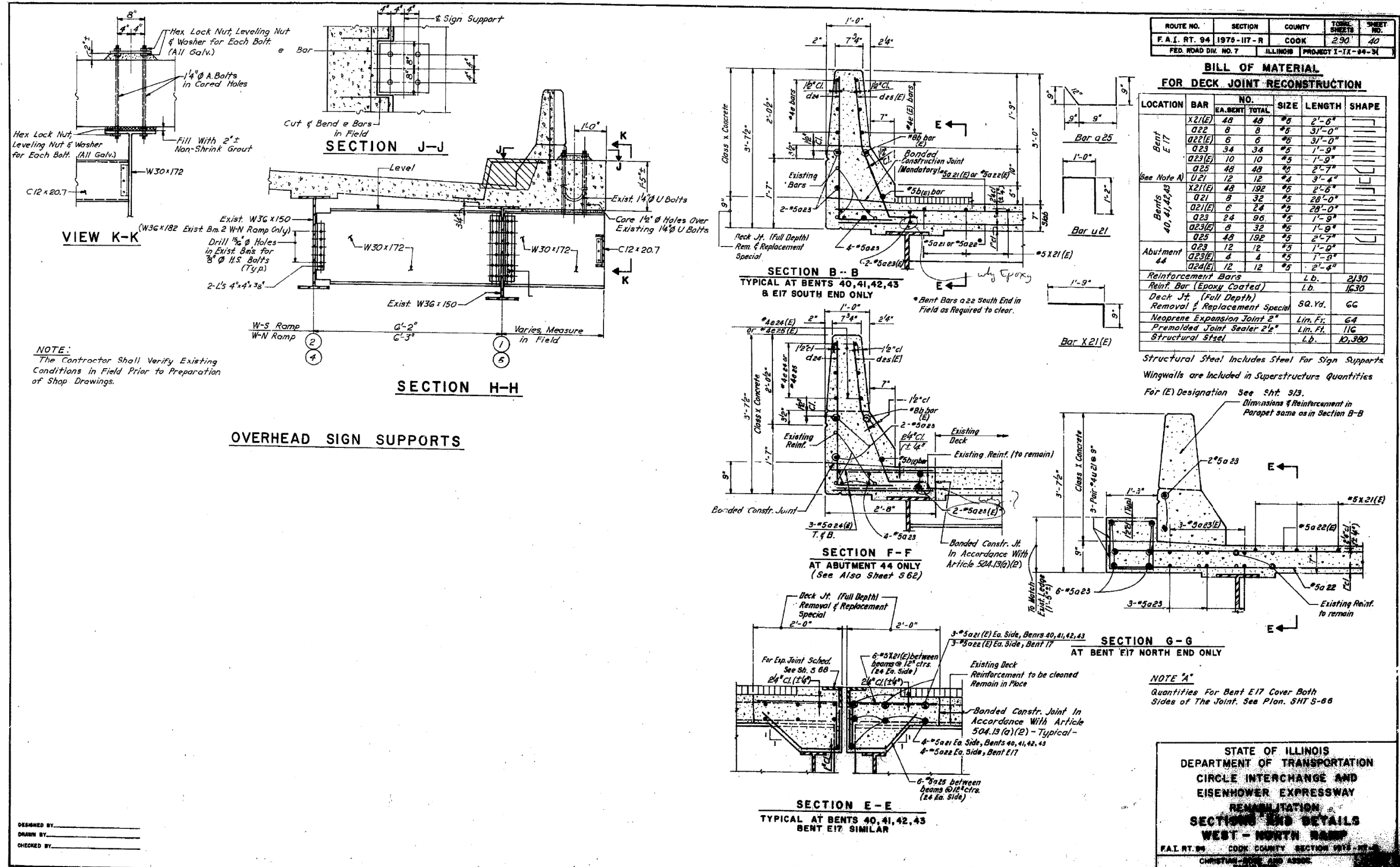
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PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1814
				CONTRACT NO. 60X93
				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	40
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-171-94-34		

BILL OF MATERIAL FOR DECK JOINT RECONSTRUCTION

LOCATION	BAR NO.	EA. BENT	TOTAL	SIZE	LENGTH	SHAPE
Bent E17	X21(E)	48	48	#5	2'-6"	
	Q22	8	8	#5	31'-0"	
	Q22(E)	6	6	#5	31'-0"	
	Q23	34	34	#5	1'-9"	
	Q23(E)	10	10	#5	1'-9"	
Bents 40, 41, 42, 43	X21(E)	48	192	#5	2'-6"	
	Q21	8	32	#5	28'-0"	
	Q21(E)	6	24	#5	28'-0"	
	Q23	24	96	#5	1'-9"	
	Q23(E)	8	32	#5	1'-9"	
Abutment 44	Q23	12	12	#5	1'-9"	
	Q23(E)	4	4	#5	1'-9"	
	Q24(E)	12	12	#5	2'-4"	

NOTE:
The Contractor Shall Verify Existing Conditions in Field Prior to Preparation of Shop Drawings.

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

FILE NAME: D:\V161749-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing327



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		CHECKED -	MI, MAI	REVISED -	

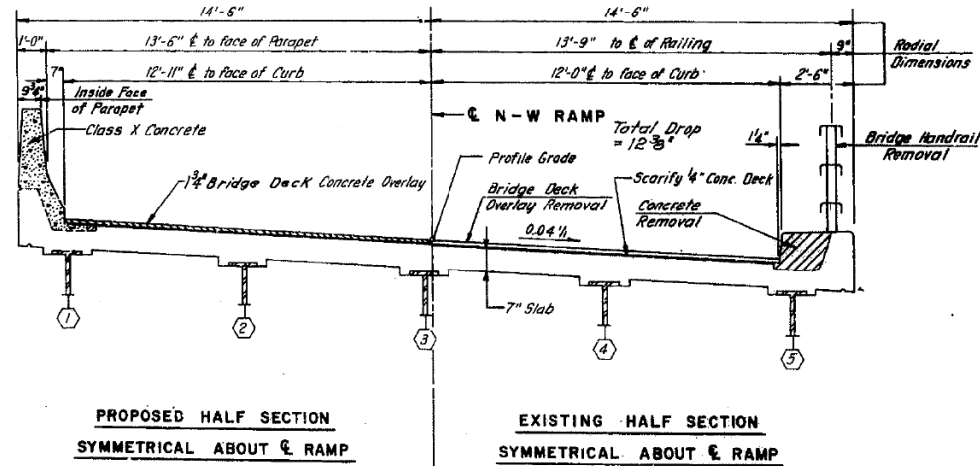
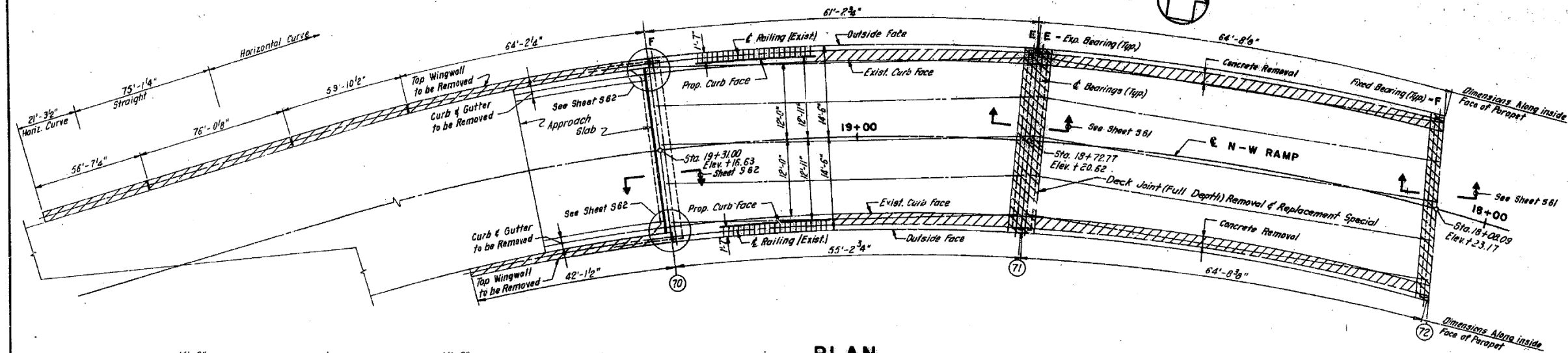
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1815
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-HP-R	COOK	1972	1816
FED. ROAD DIST. NO. 7	ILLINOIS	CONTRACT NO. 60X93		



PLAN
ABUTMENT 70 TO BENT 72

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPERST	SUBSTR.	TOTAL
Bridge Deck Overlay Removal	Sq. Yd.	1205		1205
Deck Slab Repair (Partial)	Sq. Yd.	128		128
Deck Slab Repair (Full Depth)	Sq. Yd.	9		9
Protective Coat	Sq. Yd.	542		542
Scarify Existing Concrete Deck (1/4")	Sq. Yd.	1206		1206
Bridge Deck Concrete Overlay	Sq. Yd.	1309		1309
Class X Concrete	Cu. Yd.	156.1	0.9	157
Reinforcement Bars	Lb.	3540	144	10084
Reinforcement Bars (Epoxy Coated)	Lb.	1530		1530
Concrete Removal	Cu. Yd.	39.5	0.9	100.4
Neoprene Expansion Joint 2"	Lin. Ft.	161		161
Preformed Joint Sealer 2 1/2"	Lin. Ft.	62		62
Furnish and Install Elast. Bearings Type I	Ea.		30	30
Jack Existing Stringer	Ea.		30	30
Repair Concrete Structures	Sq. Ft.		361	361
Preformed Joint Sealer 4"	Lin. Ft.	29		29
Deck Jt. (Full Depth) Removal & Replacement (Spec. Structural Steel)	Sq. Yd.	53		53
Epoxy Mortar Repair	Cu. Ft.		4.2	4.2
Jack and Chipping	Each		2	2
Expansion Bolts 1/2" x 10"	Each		8	8
Expansion Bolts 1/2" x 15"	Each		8	8

GENERAL NOTES N-W RAMP

CALCULATED WEIGHT OF STRUCTURAL STEEL = 2.297 Lbs.

ALL NEW STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH TWO COATS OF BASIC LEAD SILICO CHROMATE PAINT.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYSTEM IS APPLIED.

SPECIAL CARE SHALL BE TAKEN IN COMPACTING BITUMINOUS CONCRETE SURFACE ALONG EXPANSION JOINTS TO ACHIEVE PROPER DENSITY AND TO FORM 1/4" LIP. SMALLER ROLLERS AND STEEL FLATES SHALL BE USED FOR THIS PURPOSE AS DIRECTED BY THE ENGINEER.

ALL REINFORCEMENT BARS SHALL CONFORM TO A.A.S.H.T.O. M-31 GRADE 60 OR M-53 GRADE 60.

WORK TO BE PERFORMED

- 1- REMOVE EXISTING OVERLAY
- 2- REMOVE HANDRAIL AND PART OF EXISTING CURB AS SHOWN ON THE CROSS-SECTIONS
- 3- SCARIFY & COMPLETE DECK
- 4- REMOVE ALL LOOSE AND DETERIORATED CONCRETE FROM DECK AT LOCATIONS MARKED BY THE ENGINEER
- 5- JACK DECK AND REPLACE ALL EXISTING GRAPHITED EXPANSION BEARINGS WITH ELASTOMERIC TYPE I BEARINGS. CLEAN AND PAINT FIXED BEARINGS (See Sheet 589 thru 571)
- 6- CONSTRUCT CONCRETE PARAPET
- 7- REPAIR DECK SLAB AND RESURFACE DECK WITH 1 3/4" OF ADDITIONAL BRIDGE DECK CONCRETE OVERLAY.
- 8- RECONSTRUCT DECK EXPANSION JOINTS
- 9- MODIFY TOP OF WING WALLS
- 10- REPAIR SUBSTRUCTURES SEE SPECIAL PROVISION

DESIGN SPECIFICATIONS

1977 A.A.S.H.T.O. and Interim Specifications As Applicable

DECK STRENGTH (MIN. 4500 P.S.I.)

FC = 4500 p.s.i. Deck and Curb, Parapet

fy = 60000 p.s.i. Reinforcement

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
RESOLUTION
GENERAL PLAN
NORTH - WEST RAMP
PART 01



USER NAME =	ahmad,issa	DESIGNED -	REVISOR -
PLOT SCALE =	N.T.S	CHECKED -	REVISOR -
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		CHECKED -	REVISOR -
		MI, MAI	

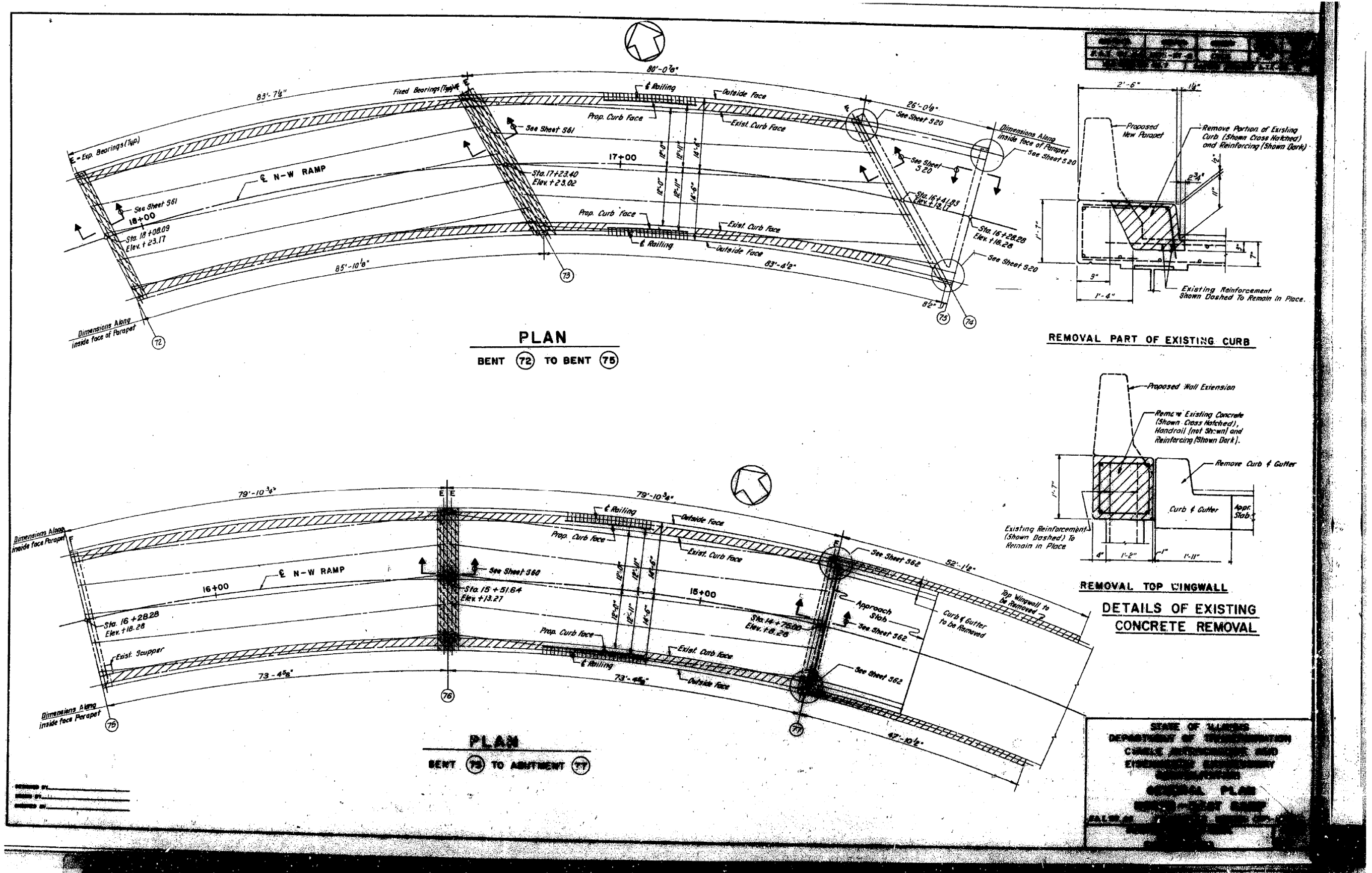
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1816
				CONTRACT NO. 60X93
		ILLINOIS	FED. AID PROJECT	

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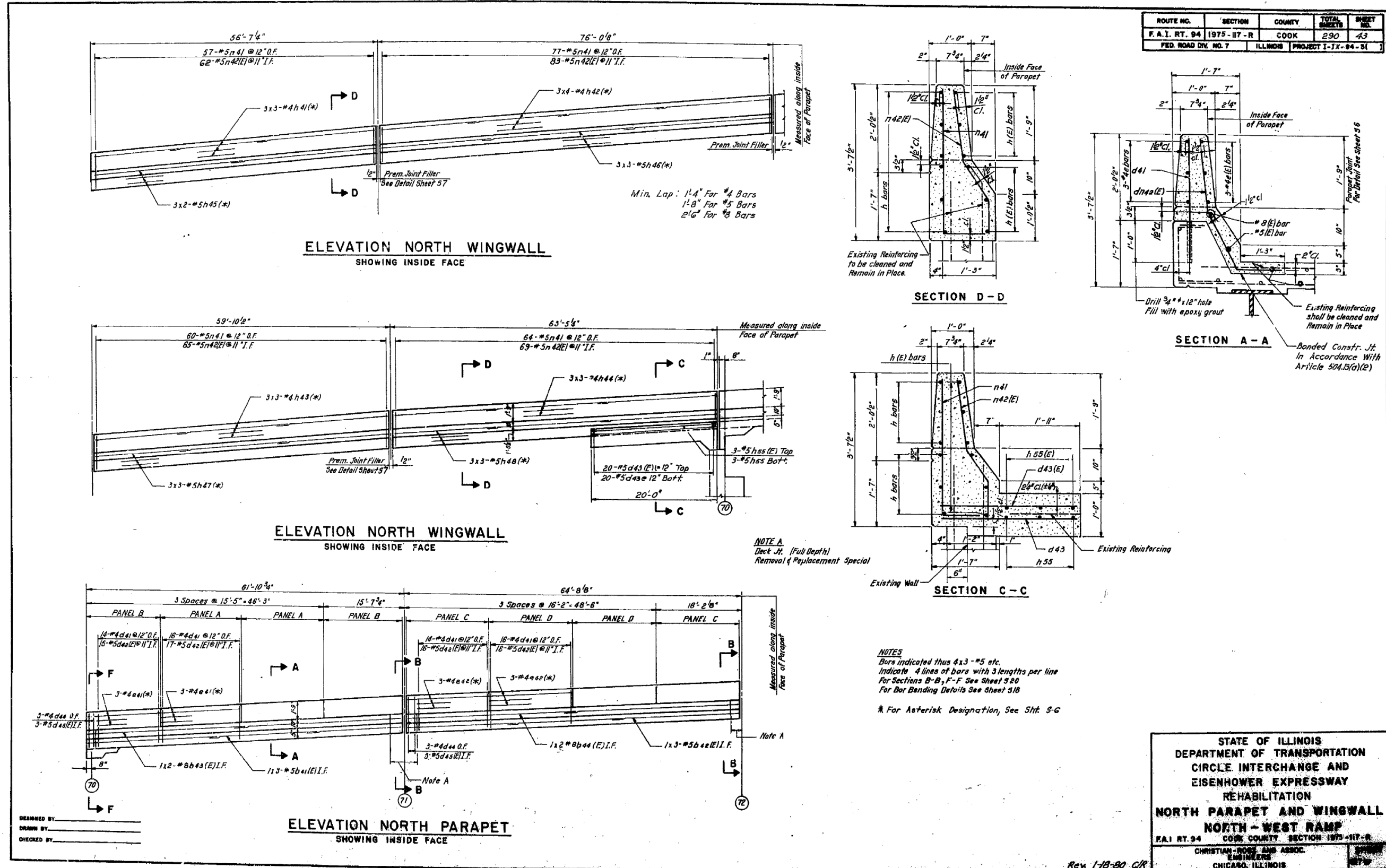
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1817
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	43
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-7X-94-B(1)		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
NORTH PARAPET AND WINGWALL
NORTH - WEST RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R

CHRISTIAN ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

Rev 1-18-80 GR

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

FILE NAME: D:\V161749-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing330



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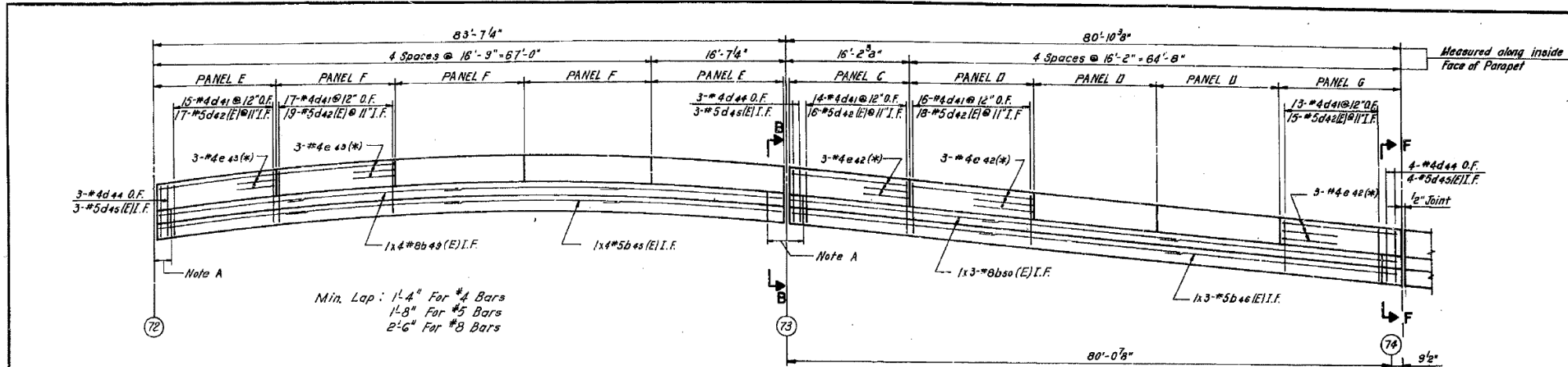
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

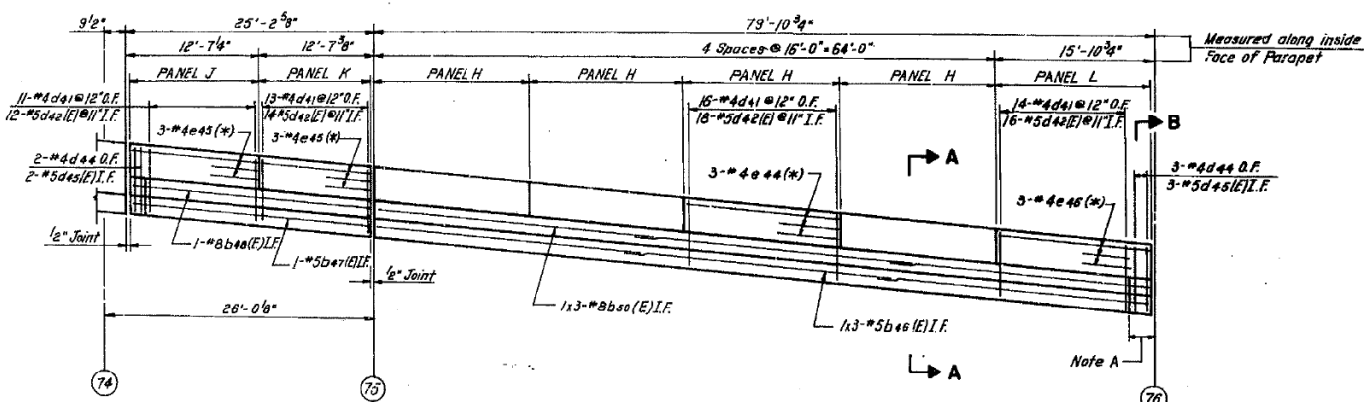
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1818
				CONTRACT NO. 60X93

ILLINOIS FED. AID PROJECT

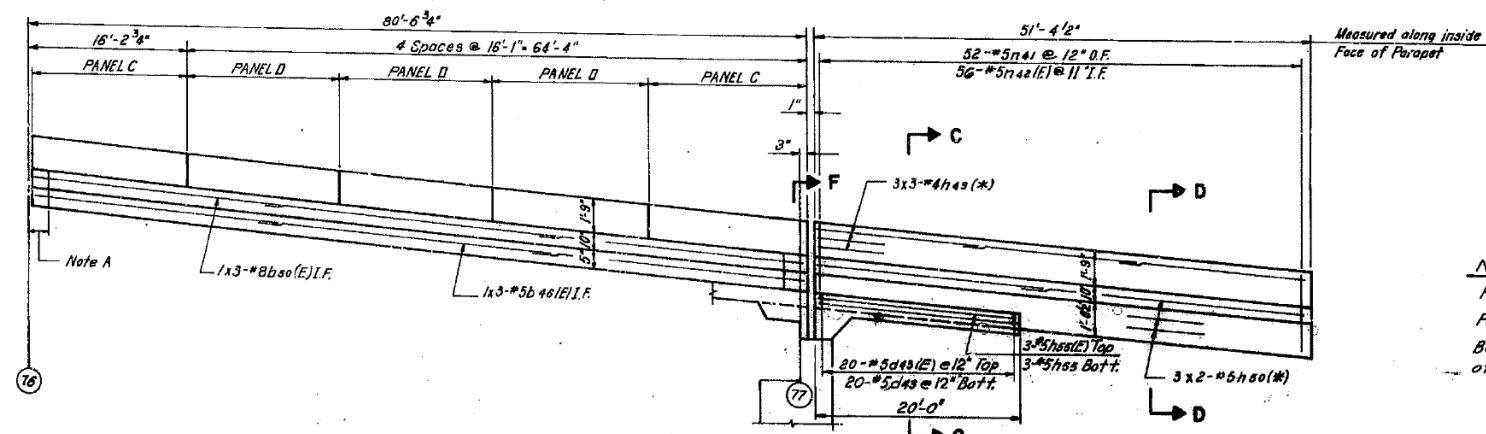
FOR INFORMATION ONLY



ELEVATION NORTH PARAPET
SHOWING INSIDE FACE



ELEVATION NORTH PARAPET
SHOWING INSIDE FACE



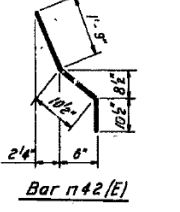
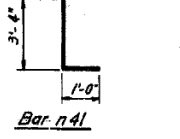
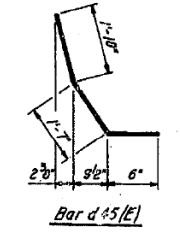
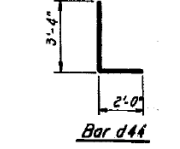
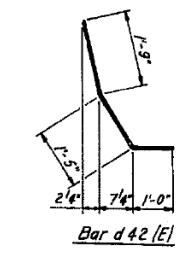
ELEVATION NORTH PARAPET
SHOWING INSIDE FACE

WINGWALL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	44
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT 1-1X-94-3		

BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
b41(E)	3 #5	21'-8"	
b42(E)	3 #5	22'-7"	
b43(E)	2 #8	32'-0"	
b44(E)	2 #8	33'-11"	
b45(E)	4 #5	22'-11"	
b46(E)	9 #5	27'-10"	
b47(E)	1 #5	24'-10"	
b48(E)	1 #8	24'-10"	
b49(E)	4 #8	22'-9"	
b50(E)	9 #8	28'-5"	
c41	12 #4	15'-1"	
c42	42 #4	15'-9"	
c43	15 #5	18'-4"	
c44	12 #4	15'-8"	
c45	6 #4	12'-3"	
c46	3 #4	15'-1"	
d41	45#	#4	2'-11"
d42(E)	50#	#5	4'-2"
d43	40	#5	3'-0"
d44	36	#4	5'-4"
d45(E)	36	#5	3'-11"
d46(E)	40	#5	3'-0"
h41	9 #5	#4	19'-8"
h42	12 #4	#4	19'-11"
h43	9 #4	#4	20'-9"
h44	9 #4	#4	21'-11"
h45	6 #5	#5	29'-0"
h46	9 #5	#5	26'-4"
h47	9 #5	#5	21'-0"
h48	9 #5	#5	22'-2"
h49	9 #4	#4	17'-11"
h50	6 #5	#5	26'-4"
h51	6 #5	#5	19'-8"
h52(E)	6 #5	#5	19'-8"
n41	3#	#5	4'-6"
n42(E)	3#	#5	3'-6"
Reinforcement Bars	Lb.	5240	
Reinf. Bars (Epoxy Coated)	Lb.	4260	
Class X Concrete	Cu. Yd.	96.4	
Concrete Removal	Cu. Yd.	20.6	
Protective Coat	Sq. Yd.	324	



NOTE A
Deck Jt. (Full Depth)
Removal & Replacement Special

NOTES:
For Sections A-A, C-C and D-D See Sht. S17.
For Sections B-B, and F-F See Sht. S20.
Bars Indicated Thus 3x2-#5, etc., Indicate 3 Lines of Bars With 2 Lengths per Line.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
NORTH PARAPET AND WINGWALL
NORTH - WEST RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 093-117-R
CHRISTIANI, ROSS AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

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USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
CHECKED -		DRAWN -	MI, MAI	REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	REVISIONS			

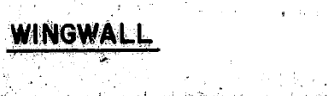
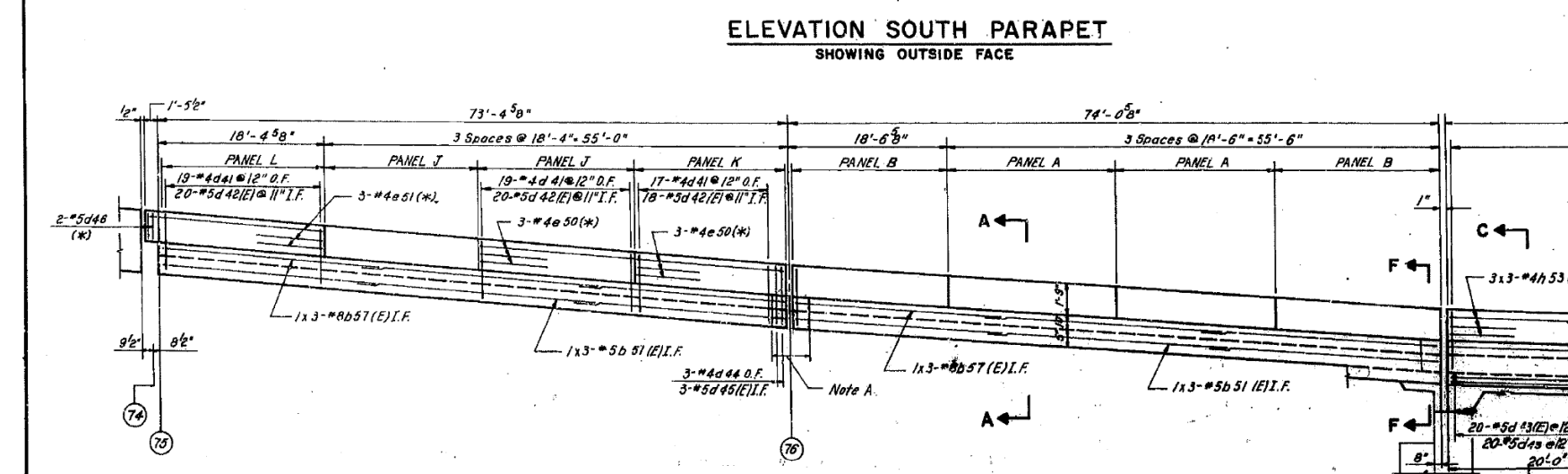
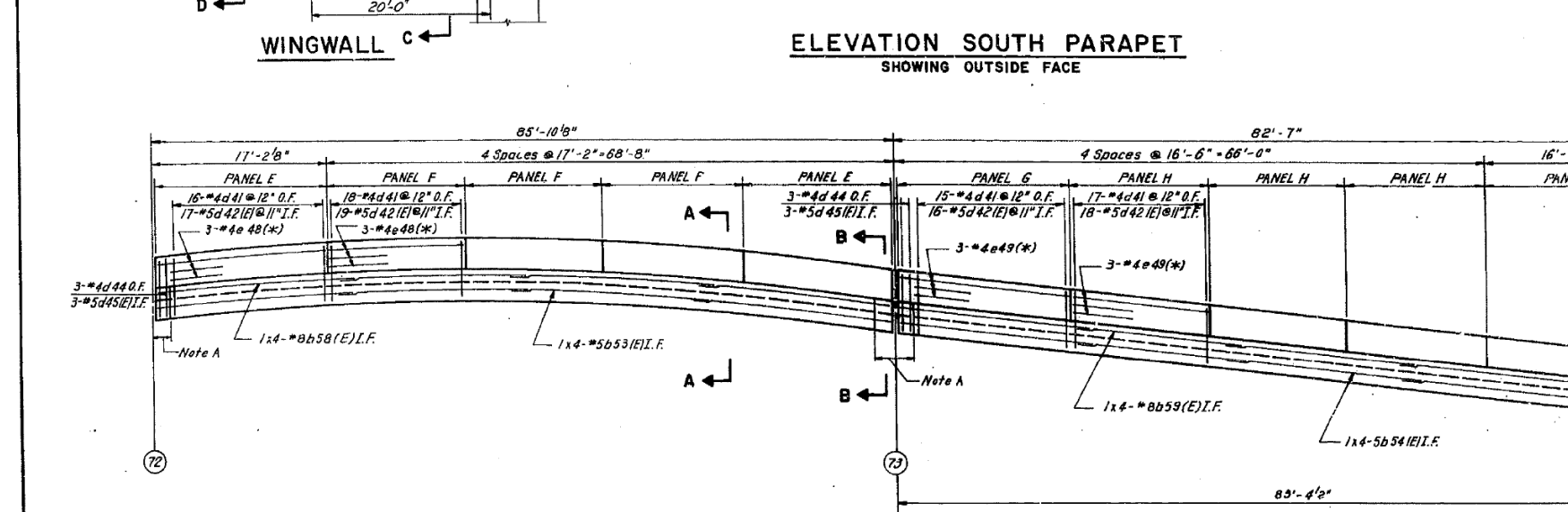
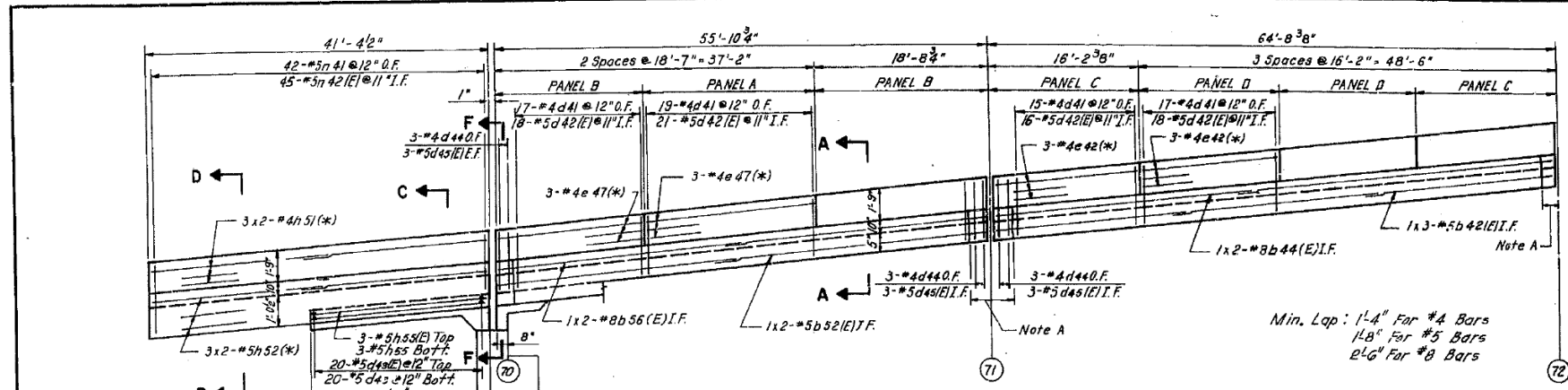
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1819
				CONTRACT NO. 60X93
				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	45
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT 1-IX-94-31		



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
b41(E)	6	#5	25'-8"	
b42(E)	2	#5	28'-7"	
b44(E)	3	#5	22'-7"	
b52(E)	4	#5	22'-8"	
b54(E)	4	#5	21'-10"	
b44(B)	2	#8	33'-11"	
b50(E)	2	#8	29'-0"	
b57(E)	6	#8	26'-3"	
b58(E)	4	#8	23'-3"	
b59(E)	4	#8	22'-6"	
d41	490	#4	2'-11"	
d42(E)	458	#5	4'-2"	
d43	40	#6	3'-0"	
d44	33	#4	5'-4"	
d45(E)	33	#5	3'-11"	
d46	2	#8	1'-4"	
d48(E)	40	#5	3'-0"	
e42	12	#4	15'-10"	
e47	21	#4	18'-2"	
e48	15	#4	16'-10"	
e49	15	#4	18'-2"	
e50	9	#4	18'-0"	
e51	3	#4	19'-6"	
h51	6	#4	21'-2"	
h52	6	#5	21'-4"	
h53	9	#4	18'-7"	
h54	6	#5	24'-4"	
h55	6	#5	19'-9"	
h55(E)	6	#5	19'-8"	
r41	90	#5	4'-4"	
r42(E)	97	#5	3'-8"	
Reinforcement Bars		Lb.	2940	
Rein. Bars [Epoxy Coated]		Lb.	5790	
Concrete Removal		Cu. Yd.	38.9	
Class X Concrete		Cu. Yd.	59.7	
Protective Coat		Sq. Yd.	218	

NOTE A
Deck Joint (Full Depth)
Removal & Replacement Special

NOTES:
For Sections A-A, C-C, D-D See Sheet 917
For Sections B-B, F-F, G-G See Sheet 520
For Additional Notes See Sheet 917
For Bars Bending Diagrams See Sheet 518
Bars Indicated Thus 3x3-#4, etc.,
Indicate 3 Lines of Bars With
3 Lengths per Line.

Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.
* For Asterisk Designation See SH. 5G

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
SOUTH PARAPET AND WINGWALL
NORTH-WEST RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN, MAI AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

FILE NAME: D:\v1617479-PWINT-accomline.local\AECOM_D502_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\339906-60X93-SXX-Existing332



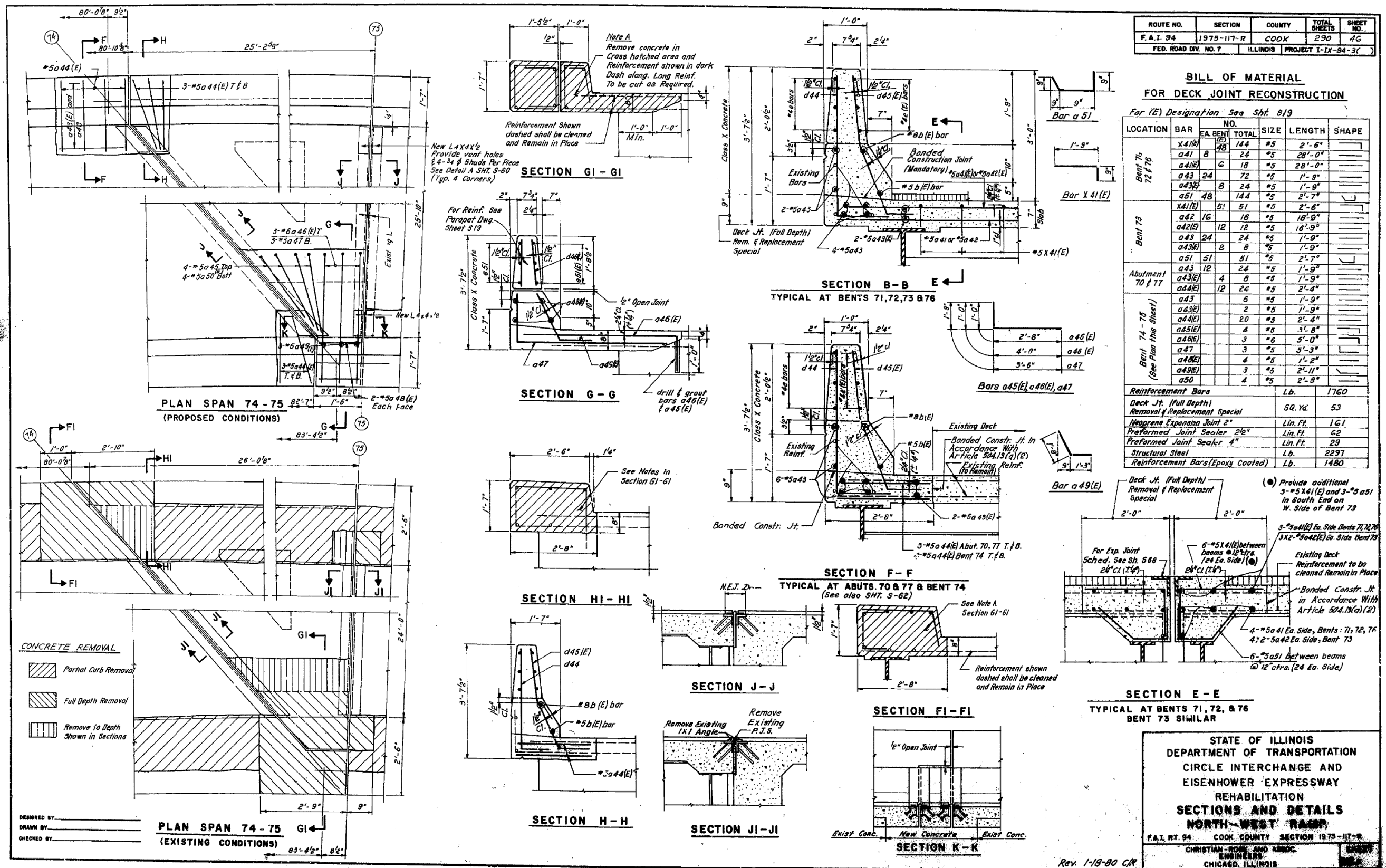
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PLOT DATE =	7/26/2018	DRAWN -	REVISD -
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		MI, MAI	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1820
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 94	1975-117-R	COOK	290	46
FED. ROAD DIV. NO. 7	ILLINOIS PROJECT I-19-94-3(C)			

BILL OF MATERIAL FOR DECK JOINT RECONSTRUCTION

For (E) Designation See Sht. 519

LOCATION	BAR	EA. BENT	NO.	SIZE	LENGTH	SHAPE
Bent 76	X41(E)	14	144	#5	2'-6"	
	a41	8	24	#5	28'-0"	
	a41(E)	6	18	#5	28'-0"	
	a43	24	72	#5	1'-9"	
	a43(E)	8	24	#5	1'-9"	
Bent 73	X41(E)	14	144	#5	2'-6"	
	a42	16	16	#5	16'-9"	
	a42(E)	12	12	#5	16'-9"	
	a43	24	24	#5	1'-9"	
	a43(E)	8	8	#5	1'-9"	
Abutment 70 & 77	a43	12	24	#5	1'-9"	
	a43(E)	4	8	#5	1'-9"	
	a44(E)	12	24	#5	2'-4"	
Bent 74 - 75 (See Plan This Sheet)	a43	6	#5	1'-9"		
	a43(E)	2	#5	1'-9"		
	a44(E)	20	#5	2'-4"		
	a45(E)	4	#5	3'-8"		
	a46(E)	3	#6	5'-0"		
	a47	3	#5	5'-3"		
	a48(E)	4	#5	1'-2"		
	a49(E)	3	#5	2'-11"		
	a50	4	#5	2'-9"		
	Reinforcement Bars					
Deck Jt. (Full Depth) Removal & Replacement Special						Sq. Yd. 53
Neoprene Expansion Joint 2"						Lin. Ft. 161
Preformed Joint Sealer 2 1/2"						Lin. Ft. 62
Preformed Joint Sealer 4"						Lin. Ft. 29
Structural Steel						Lb. 2297
Reinforcement Bars (Epoxy Coated)						Lb. 1480

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

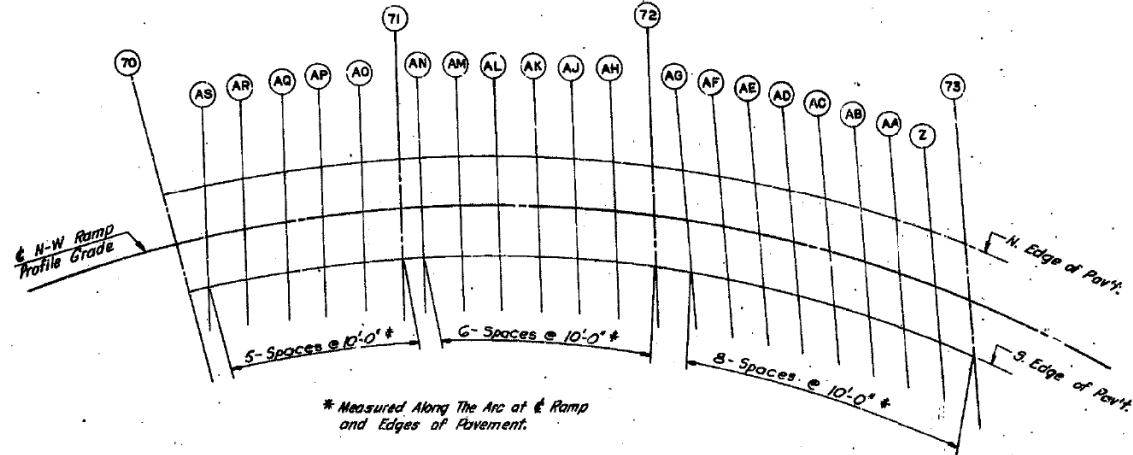
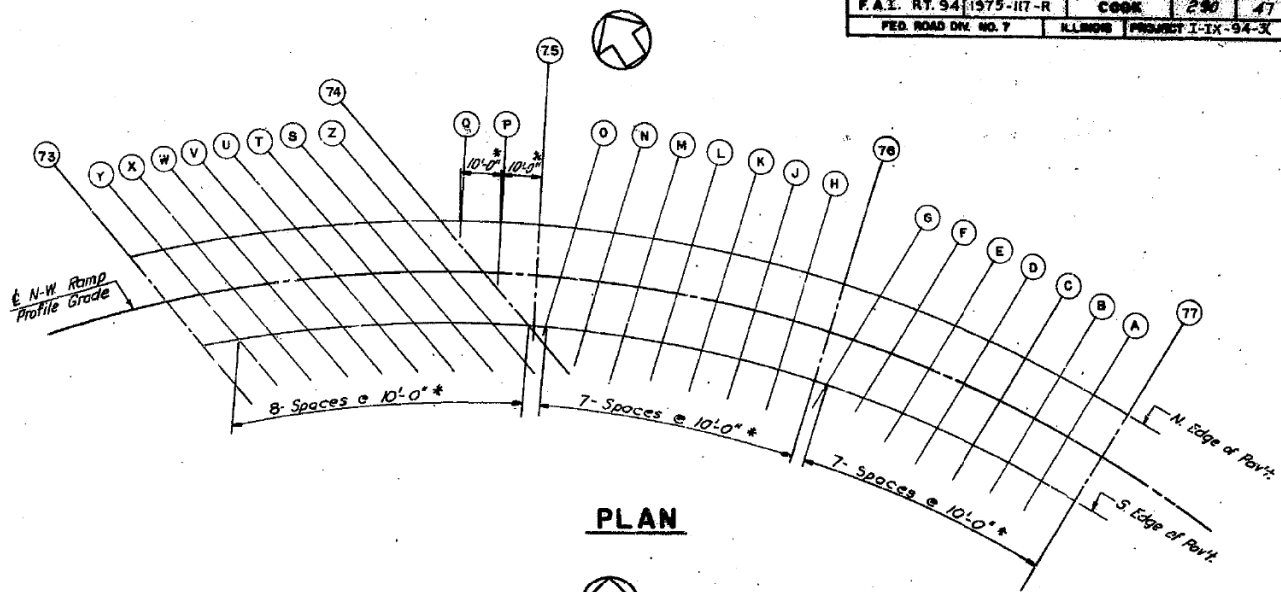
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
SECTIONS AND DETAILS
NORTH-WEST RAMP
F. A. I. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN, ROSS, AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

F. A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1821
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

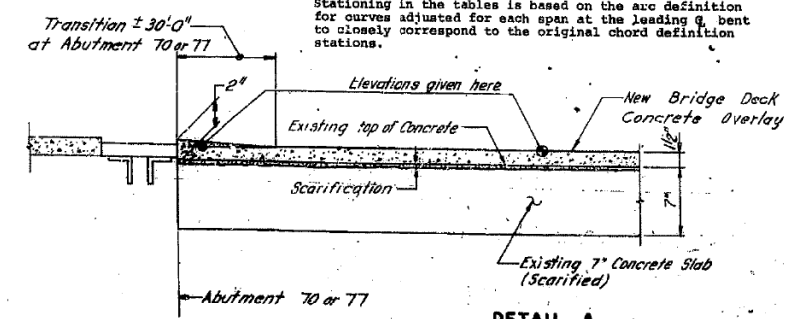
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. RT. 94	1975-117-R	COOK	290	47
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT I-IX-94-X			

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
ABUT 77	1475.000	12.916	8.799	ABUT 77	1475.000	0.000	8.285	ABUT 77	1474.899	-12.916	7.766
A	1484.616	12.916	9.409	A	1485.000	0.000	8.917	A	1485.415	-12.916	8.427
B	1489.233	12.916	10.038	B	1495.000	0.000	9.568	B	1495.830	-12.916	9.106
C	1505.850	12.916	10.668	C	1505.000	0.000	10.222	C	1506.245	-12.916	9.787
D	1513.466	12.916	11.292	D	1515.000	0.000	10.876	D	1516.680	-12.916	10.468
E	1523.083	12.916	11.921	E	1525.000	0.000	11.530	E	1527.075	-12.916	11.149
F	1532.699	12.916	12.550	F	1535.000	0.000	12.184	F	1537.451	-12.916	11.830
G	1542.316	12.916	13.179	G	1545.000	0.000	12.837	G	1547.906	-12.916	12.511
BENT 76	1951.638	12.916	13.788	BENT 76	1951.638	0.000	13.271	BENT 76	1951.637	-12.916	12.794
H	1961.254	12.916	14.417	H	1961.638	0.000	13.925	H	1962.053	-12.916	13.435
J	1970.871	12.916	15.045	J	1971.638	0.000	14.579	J	1972.468	-12.916	14.116
K	1980.487	12.916	15.674	K	1981.638	0.000	15.232	K	1982.889	-12.916	14.797
L	1990.104	12.916	16.303	L	1991.638	0.000	15.886	L	1993.298	-12.916	15.478
M	1999.721	12.916	16.931	M	1601.638	0.000	16.540	M	1603.713	-12.916	16.159
N	1609.337	12.916	17.560	N	1611.638	0.000	17.194	N	1614.129	-12.916	16.840
O	1618.954	12.916	18.189	O	1621.638	0.000	17.848	O	1624.544	-12.916	17.521
BENT 75	1628.276	12.916	18.798	BENT 75	1628.276	0.000	18.282	BENT 75	1628.275	-12.916	17.765
P	1637.892	12.916	19.427	P	1638.276	0.000	18.935	P			
Q	1647.509	12.916	20.056	Q				Q			
BENT 74	1652.568	12.916	20.389	BENT 74	1641.833	0.000	19.168	BENT 74	1629.841	-12.916	17.367
R	1662.185	12.916	20.975	R	1641.833	0.000	19.821	R	1640.257	-12.916	18.548
S	1671.801	12.916	21.513	S	1661.833	0.000	20.437	S	1680.672	-12.916	19.229
T	1681.418	12.916	22.001	T	1671.833	0.000	20.998	T	1681.087	-12.916	19.876
U	1691.035	12.916	22.439	U	1681.833	0.000	21.505	U	1671.302	-12.916	20.464
V	1700.651	12.916	22.825	V	1691.833	0.000	22.056	V	1681.917	-12.916	20.992
W	1710.268	12.916	23.160	W	1701.833	0.000	22.552	W	1692.333	-12.916	21.460
X	1719.885	12.916	23.445	X	1711.833	0.000	22.993	X	1702.748	-12.916	21.869
Y	1729.501	12.916	23.679	Y	1721.833	0.000	23.480	Y	1713.163	-12.916	22.218
BENT 73	1729.644	12.916	23.682	BENT 73	1723.396	0.000	23.019	BENT 73	1716.559	-12.916	22.319
Z	1739.260	12.916	23.864	Z	1733.396	0.000	23.242	Z	1726.974	-12.916	22.589
AA	1748.877	12.916	23.995	AA	1743.396	0.000	23.410	AA	1737.390	-12.916	22.799
AB	1758.493	12.916	24.075	AB	1753.396	0.000	23.523	AB	1747.805	-12.916	22.990
AC	1768.110	12.916	24.105	AC	1763.396	0.000	23.580	AC	1758.220	-12.916	23.041
AD	1777.727	12.916	24.084	AD	1773.396	0.000	23.583	AD	1768.635	-12.916	23.072
AE	1787.343	12.916	24.012	AE	1783.396	0.000	23.531	AE	1779.050	-12.916	23.043
AF	1796.960	12.916	23.889	AF	1793.396	0.000	23.423	AF	1789.466	-12.916	22.995
AG	1806.577	12.916	23.715	AG	1803.396	0.000	23.261	AG	1799.881	-12.916	22.808
BENT 72	1810.104	12.916	23.638	BENT 72	1808.087	0.000	23.166	BENT 72	1805.899	-12.916	22.695
AH	1819.720	12.916	23.395	AH	1818.087	0.000	22.923	AH	1816.315	-12.916	22.493
AJ	1829.337	12.916	23.101	AJ	1828.087	0.000	22.625	AJ	1826.730	-12.916	22.152
AK	1838.954	12.916	22.755	AK	1838.087	0.000	22.272	AK	1837.149	-12.916	21.791
AL	1848.570	12.916	22.359	AL	1848.087	0.000	21.864	AL	1847.560	-12.916	21.370
AM	1858.187	12.916	21.913	AM	1858.087	0.000	21.401	AM	1857.975	-12.916	20.890
AN	1867.804	12.916	21.415	AN	1868.087	0.000	20.883	AN	1868.391	-12.916	20.350
BENT 71	1872.294	12.916	21.185	BENT 71	1872.778	0.000	20.621	BENT 71	1873.294	-12.916	20.075
AO	1881.911	12.916	20.593	AO	1882.775	0.000	20.022	AO	1883.710	-12.916	19.447
AP	1891.528	12.916	19.970	AP	1892.775	0.000	19.369	AP	1894.225	-12.916	18.759
AQ	1901.144	12.916	19.296	AQ	1902.775	0.000	18.662	AQ	1904.540	-12.916	18.018
AR	1910.761	12.916	18.603	AR	1912.775	0.000	17.941	AR	1914.955	-12.916	17.267
AS	1920.378	12.916	17.809	AS	1922.775	0.000	17.220	AS	1925.370	-12.916	16.516
ABUT 70	1931.000	12.916	17.143	ABUT 70	1931.000	0.000	16.626	ABUT 70	1931.000	-12.916	16.109



NOTE: All elevations in the tables are given at the top of the new wearing surface as shown in DETAIL A.

STATIONING NOTE: Stationing in the tables is based on the arc definition for curves adjusted for each span at the leading g bent to closely correspond to the original chord definition stations.

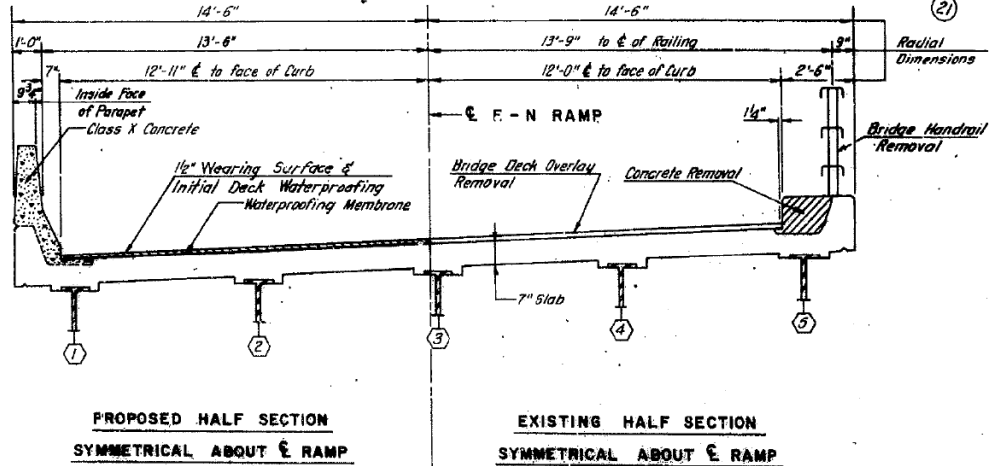
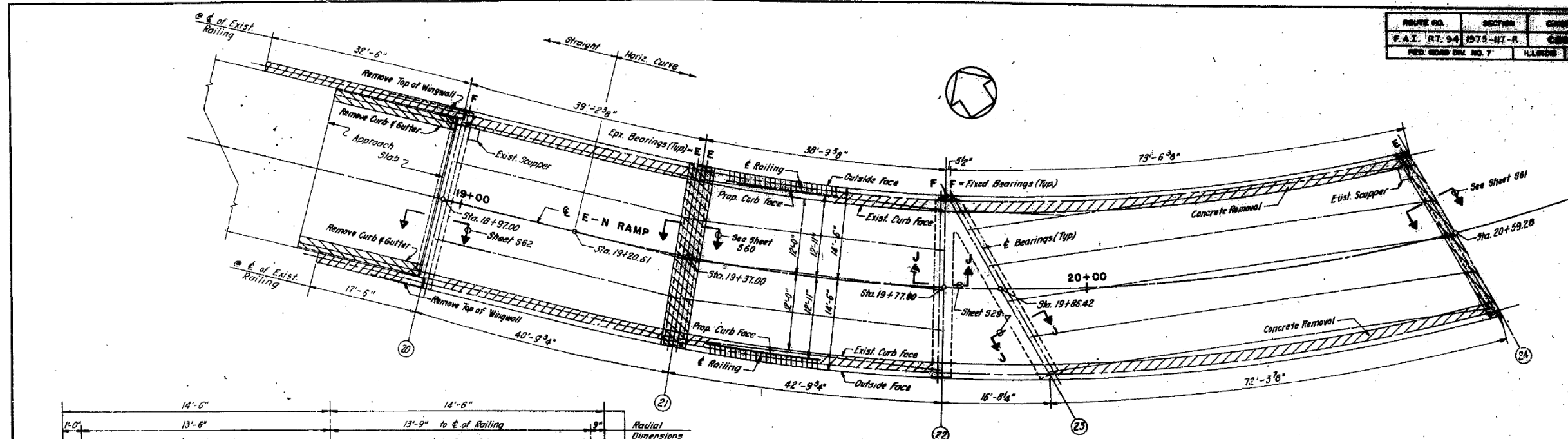


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
ELEVATIONS
NORTH - WEST RAMP
F.A.I. RT. 94 CORNER CROSBY SECTION 1975-117-R
CHICAGO, ILLINOIS

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FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY
F.A.I. RT. 94	1975-117-R	COOK
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT NO. 60X93



PLAN
ABUTMENT 20 TO BENT 24

TYPICAL DECK CROSS SECTION
LOOKING EAST

WORK TO BE PERFORMED

ABUTMENT 20 TO BENT 24		BENT 24 TO ABUTMENT 20
1 - REMOVE EXISTING OVERLAY	6 - REPAIR DECK SLAB WITH CONCRETE	1 - REMOVE EXISTING DECK SLAB
2 - REMOVE HANDRAIL AND PART OF EXISTING CURB AS SHOWN ON THE CROSS-SECTIONS	7 - RECONSTRUCT DECK EXPANSION JOINTS	2 - JACK DECK AND REPLACE ALL EXIST. GRAPHITED EXPANSION BEARINGS WITH ELASTOMERIC TYPE I BEARINGS, CLEAN AND PAINT FIXED BEARINGS
3 - REMOVE ALL LOOSE AND DETERIORATED CONCRETE FROM DECK AT LOCATIONS MARKED BY THE ENGINEER	8 - WATERPROOF AND RESURFACE DECK WITH 1/2" BIT SURF COURSE	3 - RECONSTRUCT DECK JOINTS USING EPOXY COATED TOP REINFORCEMENT, WATERPROOF AND RESURFACE WITH 1/2" BITUMINOUS SURF COURSE
4 - JACK DECK AND REPLACE ALL EXISTING GRAPHITED EXPANSION BEARINGS WITH ELASTOMERIC TYPE I BEARINGS, CLEAN AND PAINT FIXED BEARINGS	9 - MODIFY TOP OF WING WALLS	4 - MODIFY TOP OF WING WALLS
5 - CONSTRUCT CONCRETE CURB	10 - REPAIR SUBSTRUCTURES AS REQUIRED	5 - REPAIR SUBSTRUCTURES AS REQUIRED

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY	SUBSTR.	TOTAL
Bridge Deck Overlay Removal	Sq. Yd.	697		697
Hand Rail Removal (Handrail)	Lf.	65		65
Hand Rail Removal (Handrail)	Lf.	5		5
Hand Rail Removal (Handrail)	Lf.	104		104
Hand Rail Removal (Handrail)	Lf.	104		104
Hand Rail Removal (Handrail)	Lf.	29	2.9	29.9
Hand Rail Removal (Handrail)	Lf.	29	2.9	29.9
Hand Rail Removal (Handrail)	Lf.	34		34
Hand Rail Removal (Handrail)	Lf.	175		175
Hand Rail Removal (Handrail)	Lf.	40		40
Hand Rail Removal (Handrail)	Lf.	40		40
Hand Rail Removal (Handrail)	Lf.	389		389
Hand Rail Removal (Handrail)	Lf.	29		29
Hand Rail Removal (Handrail)	Lf.	45		45
Hand Rail Removal (Handrail)	Lf.	4825		4825
Hand Rail Removal (Handrail)	Lf.	1		1
Hand Rail Removal (Handrail)	Lf.	4		4
Hand Rail Removal (Handrail)	Lf.	16.9		16.9
Hand Rail Removal (Handrail)	Lf.	5		5
Hand Rail Removal (Handrail)	Lf.	20		20
Hand Rail Removal (Handrail)	Lf.	20		20
Expansion Joints - 1/2" x 15"	Each			

GENERAL NOTES E-N RAMP

CALCULATED WEIGHT OF STRUCTURAL STEEL = 4825 Lbs

ALL MM STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH TWO COATS OF BASIC LEAD SILICO CHROMATE PAINT.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

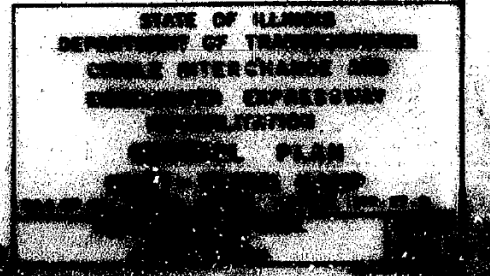
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYSTEM IS APPLIED.

SPECIAL CARE SHALL BE TAKEN IN COMPACTING BITUMINOUS CONCRETE SURFACE ALONG EXPANSION JOINTS TO ACHIEVE PROPER DENSITY AND TO FORM 1/4" LIP. SMALLER ROLLERS AND STEEL PLATES SHALL BE USED FOR THIS PURPOSE AS DIRECTED BY THE ENGINEER.

ALL REINFORCEMENT BARS SHALL CONFORM TO A.A.S.H.T.O. M-31 GRADE 60 OR M-53 GRADE 60.



FILE NAME: D:\161749-P\INT-accomonline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing335



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PLOT DATE =	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -
		MI, MAI	

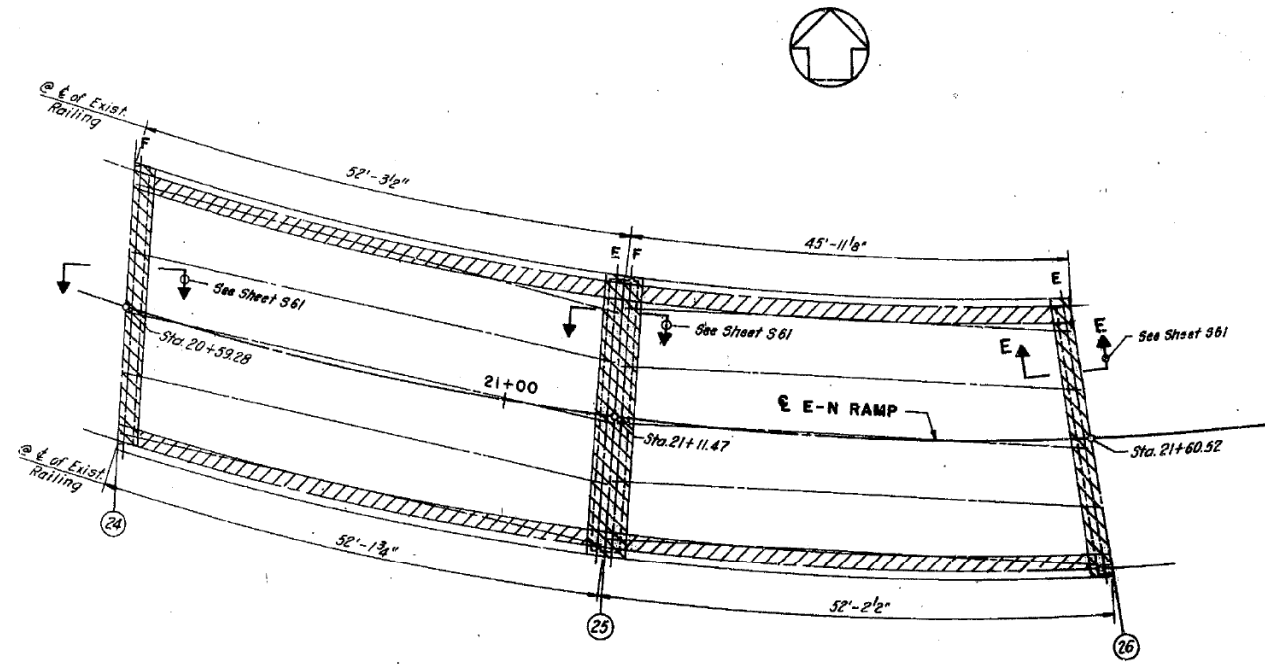
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1823
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

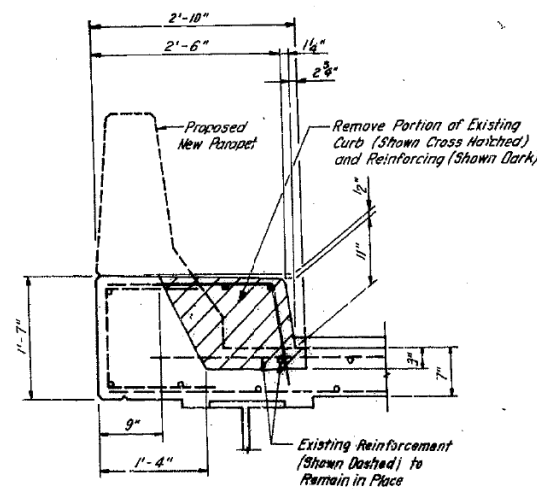
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	280 49
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT 1-74-94-7	

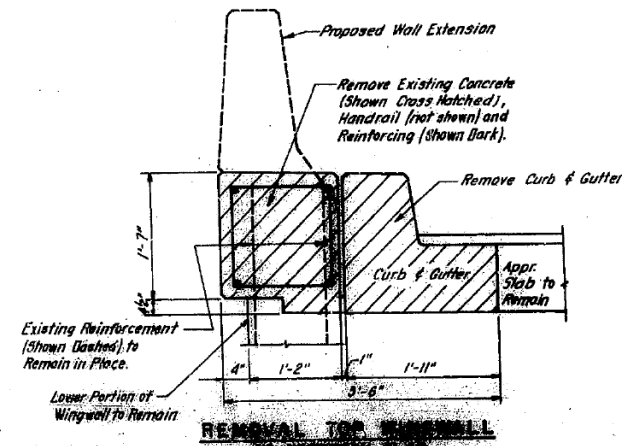


PLAN

BENT 24 TO BENT 26



REMOVAL PART OF EXISTING CURB



REMOVAL TOP WINGWALL

DETAILS OF EXISTING CONCRETE REMOVAL

DESIGNED BY _____
 DRAWN BY _____
 CHECKED BY _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
 GENERAL PLAN
 EAST-NORTH RAMP
 F.A.I. RT. 94 SECTION 1975-117-R
 SHEET NO. 280 49
 CONTRACT NO. 60X93

FILE NAME: D:\V161749-PWINT_aecom\online.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing336



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

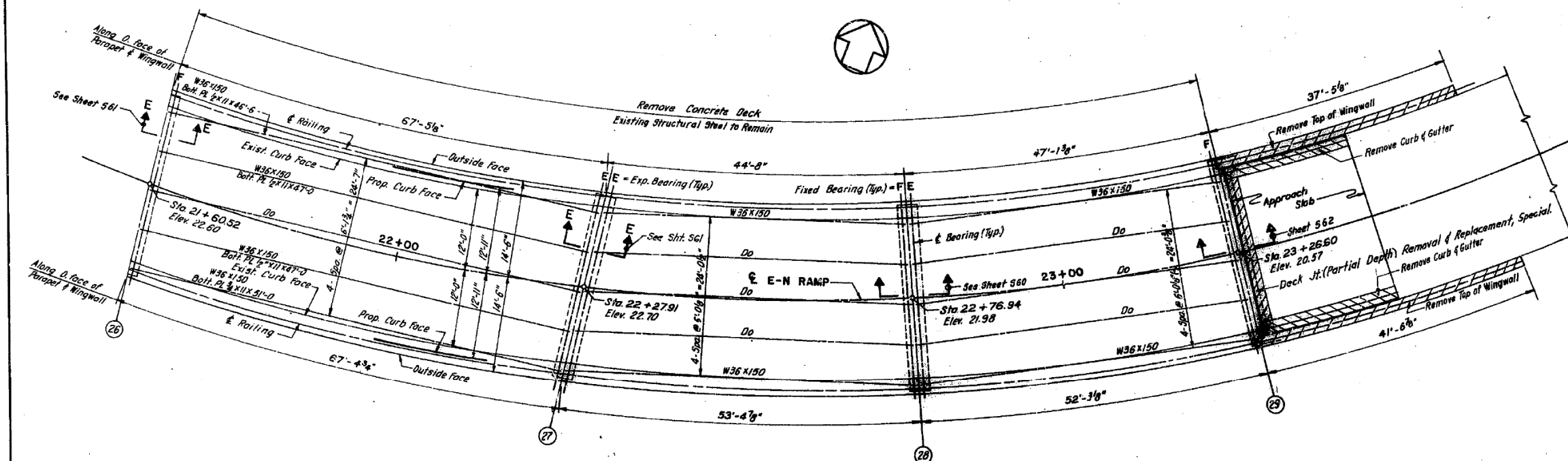
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90/94/290	2014-013R&B-R	COOK	1972	1824
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

For Alignment See Note A, Sht. 54

DATE	BY	CHKD	APP'D
F.A.I. 01/29/18	MMB-RTS	MMB	MMB
FOR RECORD ONLY	ILLINOIS	SECTION	2014-013R&B-R

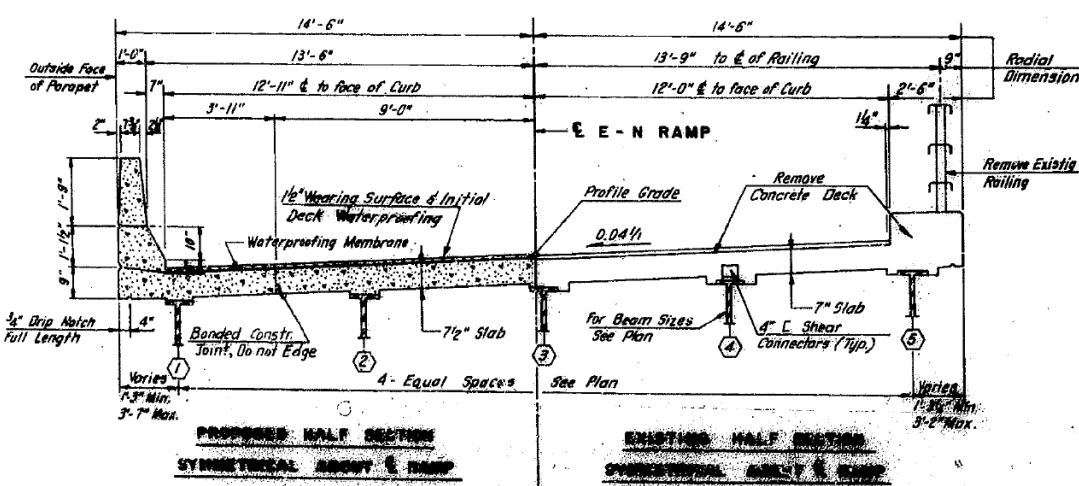


PLAN - EXISTING

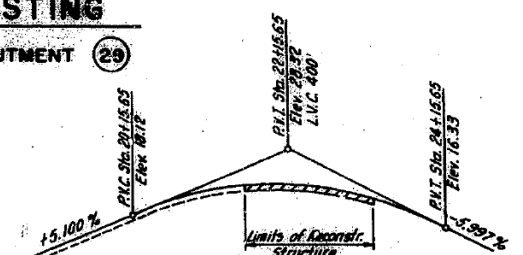
BENT (26) TO ABUTMENT (29)

CURVE DATA

P.I. Sta. 26+40.55
A = 138° 23' 51.6"
D = 20° 28' 10.6"
R = 288.00'
T = 737.74'
L = 676.28'
E = 309.09'
P.C. Sta. 19+20.61
P.T. Sta. 25+96.90
S.E. = 0.04 1/1



TYPICAL DECK CROSS SECTION



PROFILE GRADE ALONG E-N RAMP

DESIGN SPECIFICATIONS

1977 AASHTO and Interim Specifications As Applicable
 DESIGN MATERIALS
 Fc = 3000 psi Deck Slab, Curb, Parapet
 Fy = 60,000 psi Reinforcement
 DESIGN METHOD
 Limit State Design
 LIVES
 100 Year (Design)
 25 Year (Construction)
 50 Year (Maintenance)
 100 Year (Replacement)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIVIL ENGINEERING AND
 ENVIRONMENTAL ENGINEERING
 DIVISION
GENERAL PLAN
 EAST - WEST BRIDGE
 CONTRACT NO. 60X93

FILE NAME: DWG:\617479-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing337



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

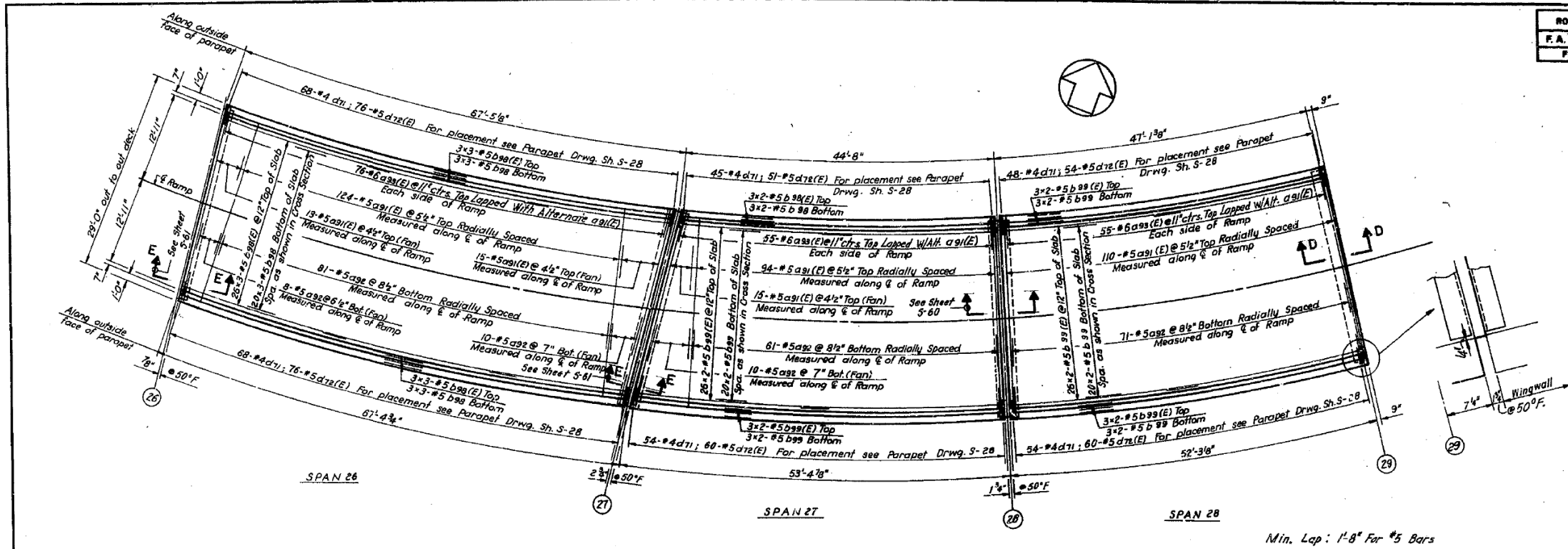
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1825
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	51
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT 2-1K-84-34		



PLAN-NEW DECK

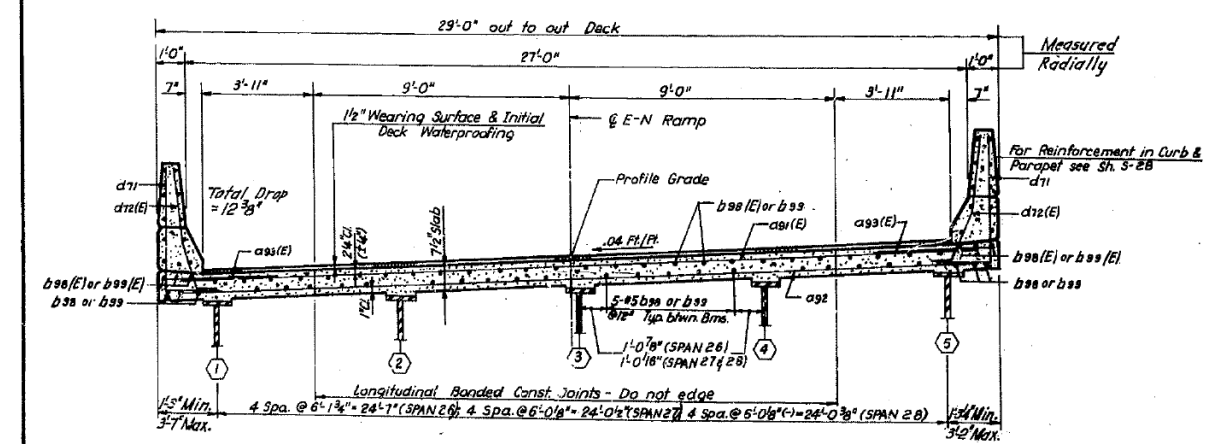
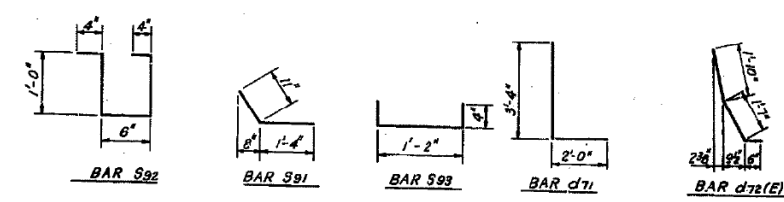
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a91(E)	374	#5	27'-0"	—
a92	244	#5	27'-0"	—
a93(E)	372	#6	4'-0"	—
a94	8	#5	5'-8"	—
a95	2	#5	25'-6"	—
b98	84	#5	23'-6"	—
b99(E)	102	#5	23'-6"	—
b99	98	#5	27'-3"	—
b99(E)	122	#5	27'-3"	—
S91	20	#5	2'-3"	—
S92	27	#5	3'-2"	—
S93(E)	44	#5	1'-10"	—
d71	337	#4	5'-4"	—
d72(E)	377	#5	3'-11"	—

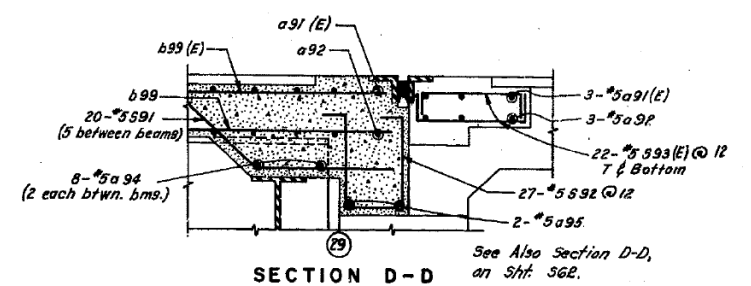
Reinforcement Bars	Lb.	13,150
Reinf. Bars (Epoxy Coated)	Lb.	20,360
Class X Concrete	Cu. Yd.	119.4
Waterproofing Membrane System	Sq. Yd.	481
Bitum. Conc. Surface Course	Ton	40
Preformed Joint Sealer 2 1/2"	Lin. Ft.	58
Preformed Joint Sealer 4"	Lin. Ft.	29
Deck Jt. (Por. Depth) Rem. (Mat. Sp.)	Sq. Yd.	4
Structural Steel	Lb.	1885

Reinforcement Bars designated (E) shall be epoxy coated. See Special Provisions.
Structural Steel & Preformed Joint Sealer 2 1/2" Quantities For Bent 26 Are Included in Bill of Material, Sheet 5-29.

Bars Indicated Thus 20x2-#5, etc., Indicate 20 Lines of Bars With 2 Lengths per Line.



TYPICAL DECK CROSS SECTION



SECTION D-D
See Also Section D-D, on Sht. 562.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
SUPERSTRUCTURE
EAST - NORTH RAMP**

F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R

CHRISTIAN-ROCK AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

FILE NAME: D:\V1617479-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing338



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PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

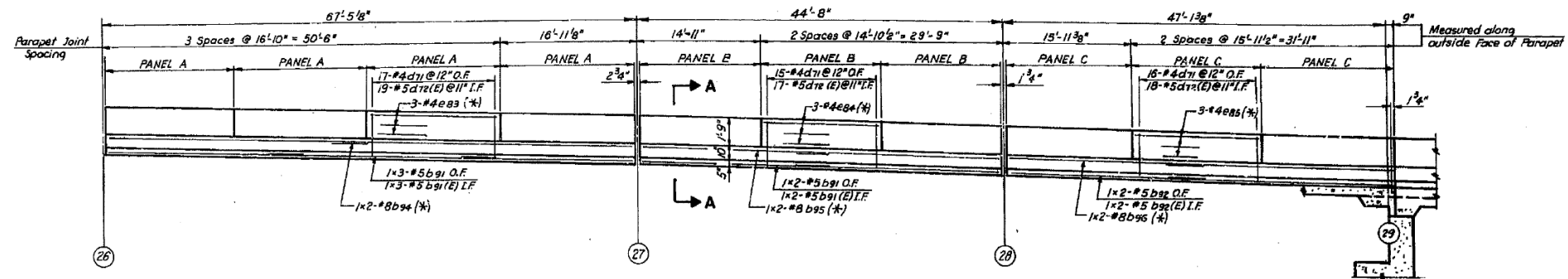
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1826
CONTRACT NO. 60X93				

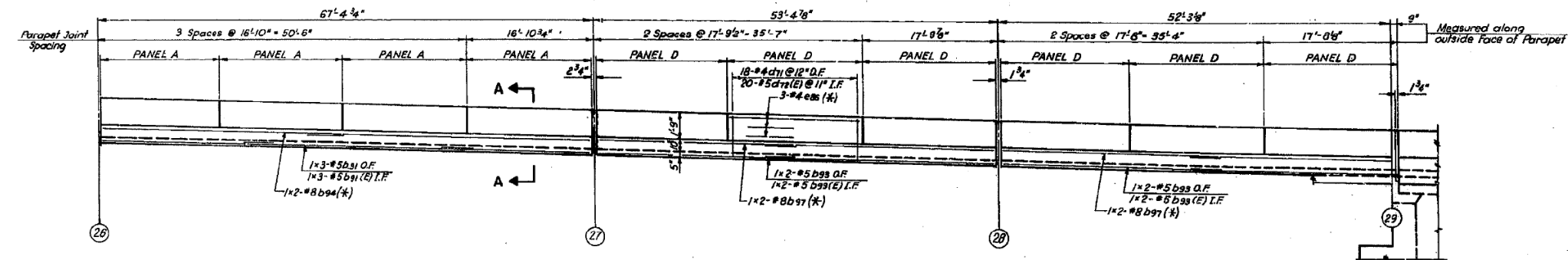
ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1973-117-R	COOK	290	52
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT 1-IX-94-3		

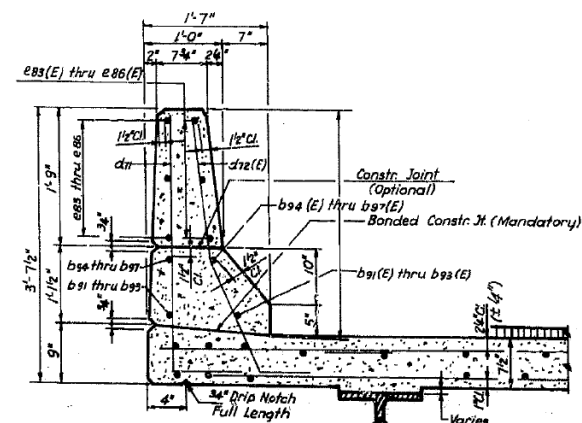


ELEVATION NORTH PARAPET
SHOWING INSIDE FACE



ELEVATION SOUTH PARAPET
SHOWING OUTSIDE FACE

Min. Lap: 1'-8" For #5 Bars
2'-6" For #8 Bars



SECTION A - A

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
b91	#8	23'-6"	---
b91(E)	#8	23'-6"	---
b92	#5	24'-7"	---
b92(E)	#5	24'-7"	---
b93	#5	27'-5"	---
b93(E)	#5	27'-5"	---
b94	#8	34'-9"	---
b95	#8	23'-6"	---
b96	#8	25'-0"	---
b97	#8	27'-10"	---
e83	#4	16'-6"	---
e84	#4	14'-6"	---
e85	#4	15'-6"	---
e86	#4	17'-4"	---

Reinforcement Bars	Lb.	1940
Reinforcement Bars (Epoxy Coated)	Lb.	1940
Class X Concrete	Cu. Yd.	36.9
Protective Coat	Sq. Yd.	138

Reinforcement Bars designated (E) shall be epoxy coated. See Special Provisions.

(*) For Asterisk Designations, See Sheet 56.

Bars Indicated Thus 1x2-#8 etc., Indicate 1 Line of Bars With 2 Lengths per Line.

NOTE:
For Details of Parapet Joint, See Sheet 5-6

For Bars d71 & d72(E) See Sht. 5E5.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
PARAPETS
EAST - NORTH RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1973-117-R
CHRYSLER FINANCIAL GROUP
CHICAGO, ILLINOIS

FILE NAME: D:\V161749-PWINT-accomonline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing339



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		MI, MAI	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

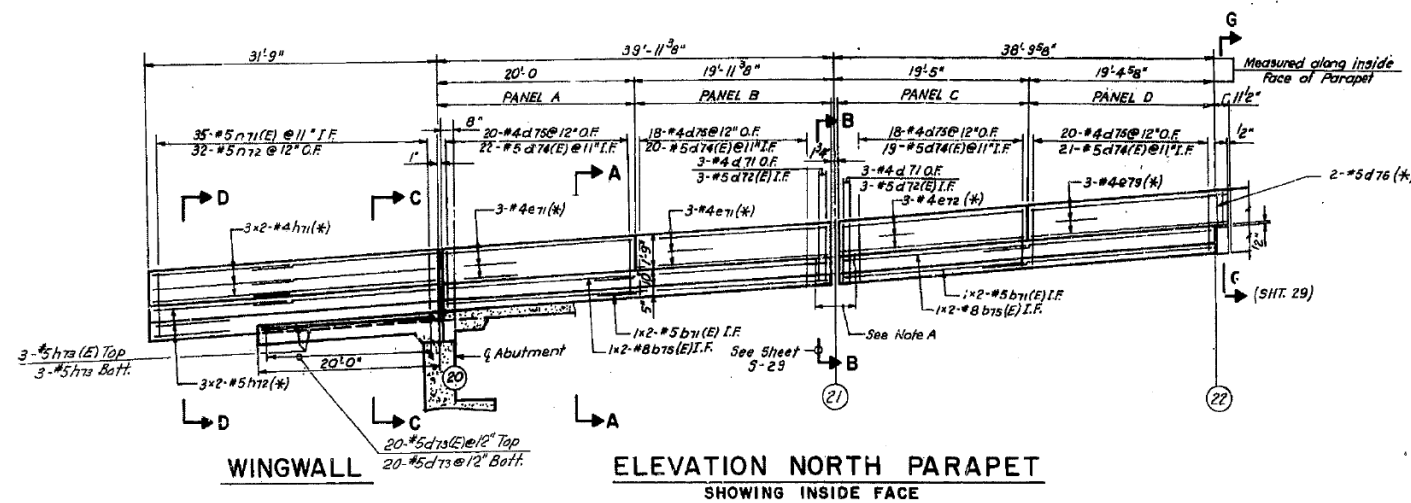
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

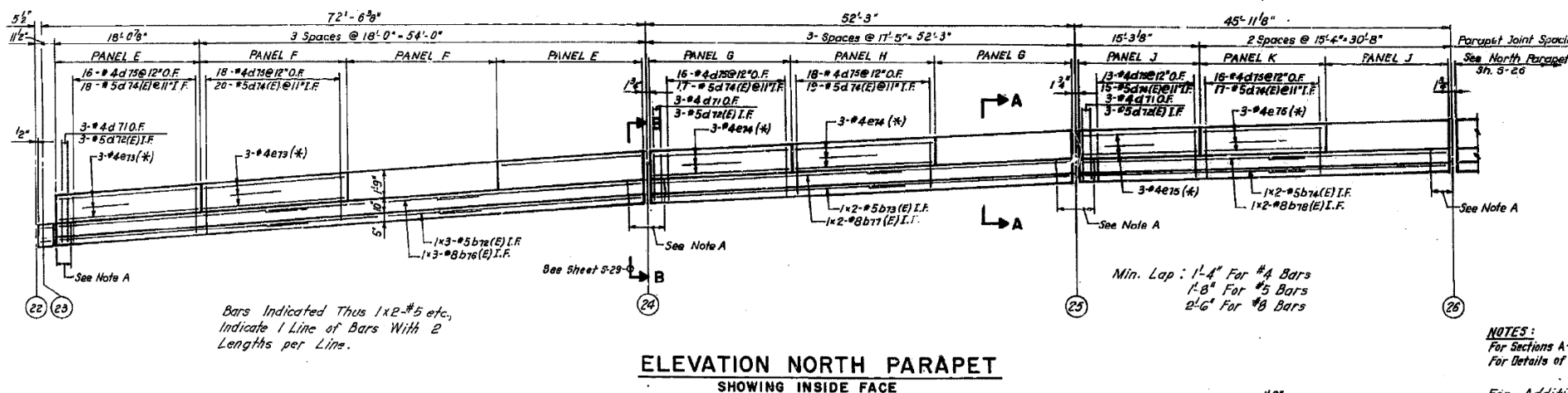
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	53
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT 11K-94-31		



NOTE A:
For additional Reinforcement and Deck Joints, see Section B-B on Sheet 5-29

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
d71(E)	4	#5	20'-7"	
d72(E)	3	#5	25'-4"	
d73(E)	2	#5	26'-8"	
d74(E)	2	#5	23'-7"	
d75(E)	4	#8	21'-0"	
d76(E)	3	#8	25'-11"	
d77(E)	2	#8	27'-2"	
d78(E)	2	#8	24'-0"	
d71	24	#4	5'-4"	
d72(E)	24	#5	3'-11"	
d73	40	#5	3'-0"	
d74(E)	258	#5	4'-2"	
d75	236	#4	2'-11"	
d76	2	#5	1'-4"	
d77(E)	40	#5	3'-0"	
e71	6	#6	19'-6"	
e72	3	#6	19'-1"	
e73	12	#6	17'-8"	
e74	9	#6	17'-0"	
e75	9	#6	14'-10"	
e76	3	#6	20'-0"	
h71	6	#6	16'-5"	
h72	6	#5	16'-7"	
h73	6	#5	19'-8"	
h74	6	#6	18'-11"	
h75	6	#6	18'-1"	
h76(E)	6	#5	19'-3"	
h77(E)	16	#5	3'-8"	
h78	69	#5	4'-6"	
Reinforcement Bars		Lb.	1960	
Reinf. Bars (Epoxy Coated)		Lb.	3580	
Class I Concrete		Cu. Yd.	38.3	
Protective Coat		Sq. Yd.	131	
Concrete Removal		Cu. Yd.	24.0	



Bars Indicated Thus 1x2-#5 etc., Indicate 1 Line of Bars With 2 Lengths per Line.

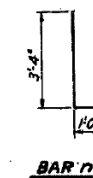
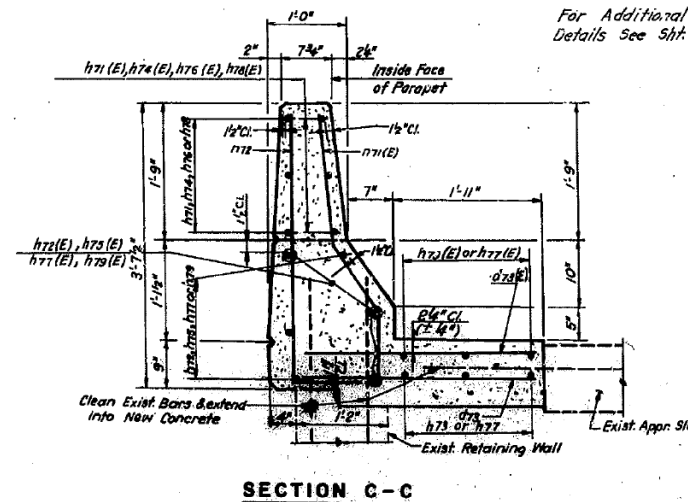
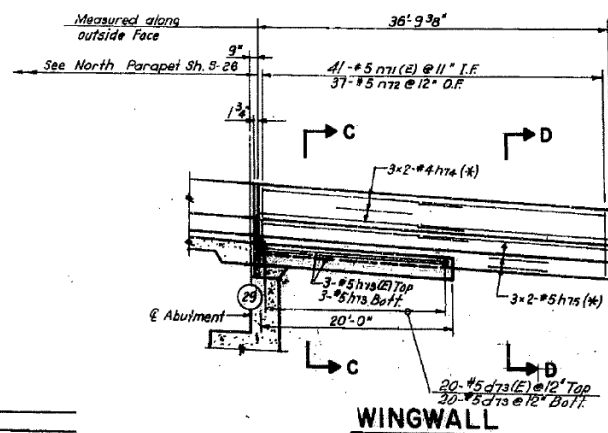
Min. Lap: 1'-4" For #4 Bars
1'-8" For #5 Bars
2'-0" For #8 Bars

NOTES:
For Sections A-A & D-D, See Sheet 5-28
For Details of Parapet Joint, See Sheet 5-6

For Additional Bar Bending Details See Sht. 5-28.

Reinforcement Bars designated (E) shall be epoxy coated. See Special Provisions.

(*) For Asterisk Designation, See Sht. 5-6



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
NORTH PARAPET
EAST-NORTH RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN, ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

Rev. 1-18-80 CR

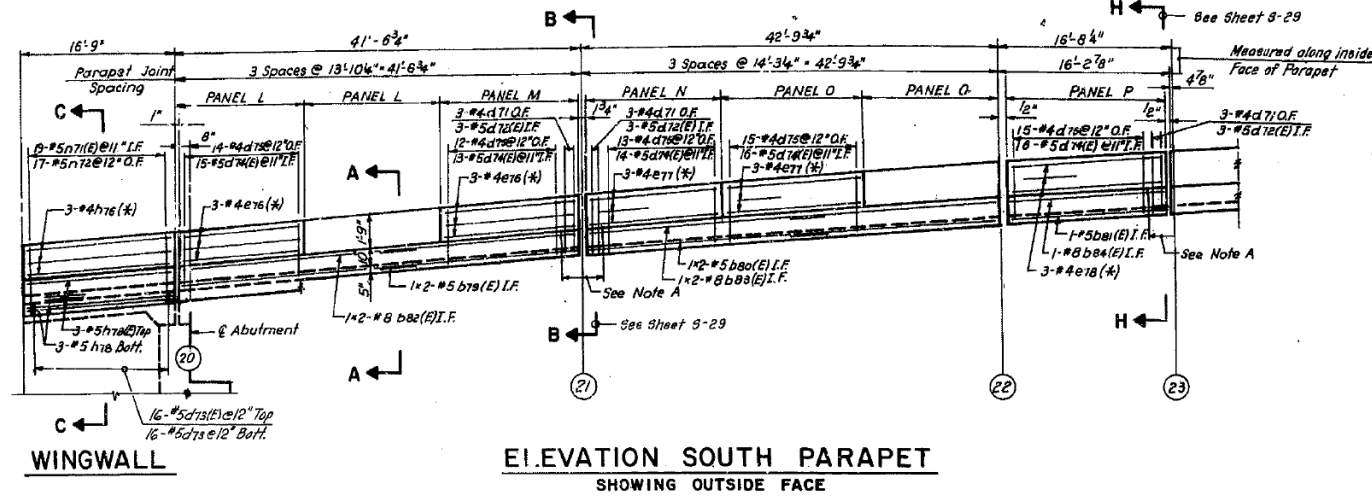
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DRAWN BY: _____
CHECKED BY: _____

USER NAME	DESIGNED	REVISIONS
ahmad,issa	-	-
	CHECKED -	REVISIONS -
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	CHECKED - MI, MAI	REVISIONS -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1828
CONTRACT NO. 60X93				

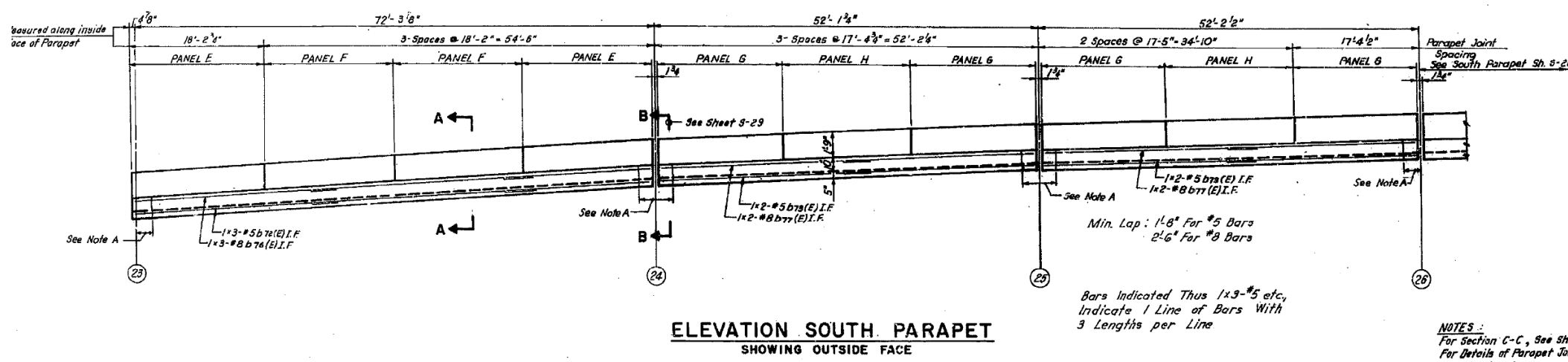
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	54
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT 1-1X-94-51		



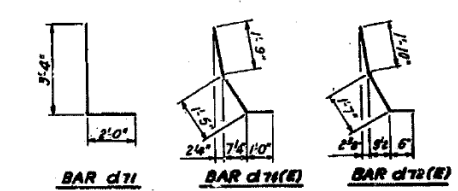
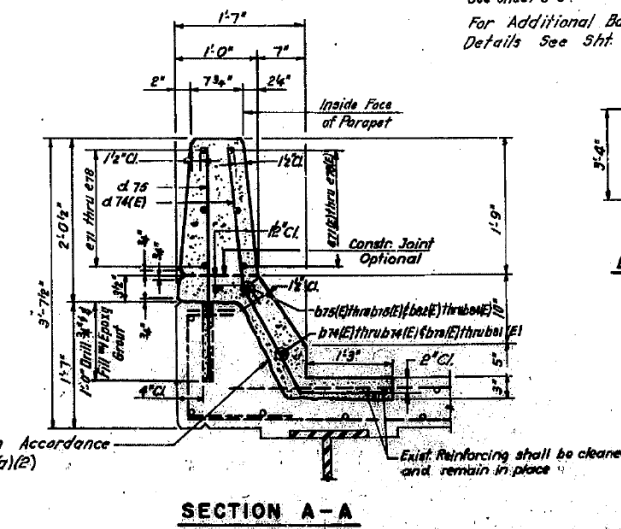
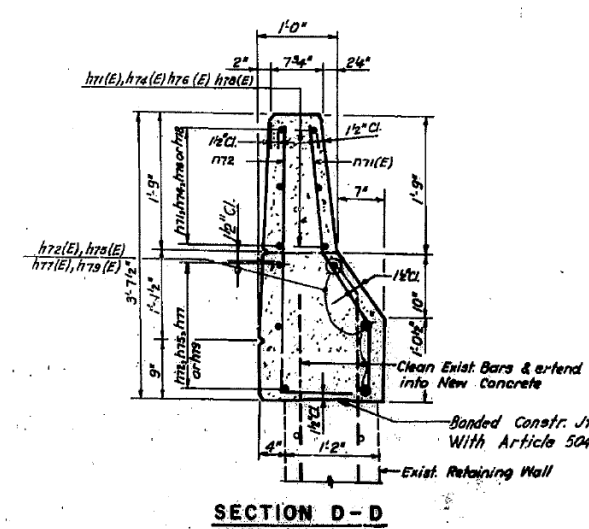
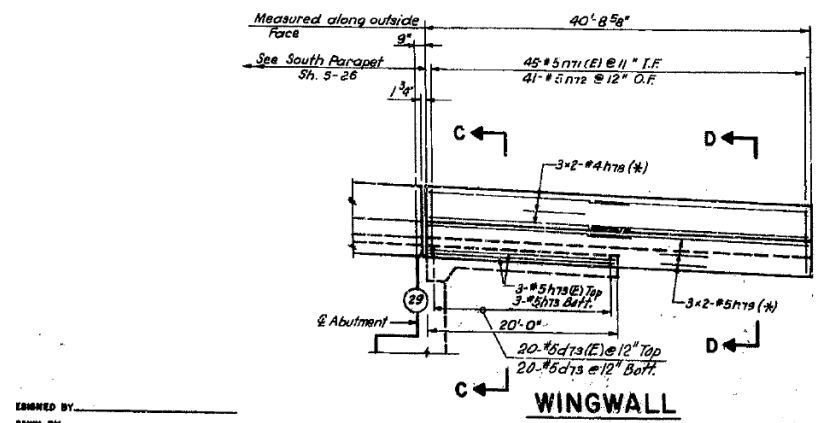
BILL OF MATERIAL

BAR NO.	NO.	SIZE	LENGTH	SHAPE
b72(E)	3	#5	25'-4"	
b73(E)	4	#5	26'-9"	
b76(E)	3	#8	25'-11"	
b77(E)	4	#8	27'-2"	
b79(E)	2	#5	21'-5"	
b80(E)	2	#5	22'-1"	
b81(E)	1	#5	15'-9"	
b82(E)	2	#8	21'-10"	
b83(E)	2	#8	22'-6"	
b84(E)	1	#8	15'-9"	
d71	27	#4	5'-4"	
d72(E)	27	#5	3'-11"	
d73	36	#5	3'-0"	
d74(E)	320	#5	4'-2"	
d75	302	#4	2'-11"	
d73(E)	36	#5	3'-0"	
e73*	12	#4	17'-8"	
e74*	18	#4	17'-0"	
e75*	9	#4	13'-5"	
e77*	9	#4	13'-10"	
e78*	3	#4	15'-9"	
h79(E)	3	#5	19'-8"	
h73	3	#5	19'-8"	
h76*	3	#4	16'-5"	
h77*	3	#5	16'-4"	
h78*	6	#4	20'-11"	
h79*	6	#5	21'-1"	
h78(E)	3	#5	16'-5"	
h78	3	#5	16'-5"	
n71(E)	64	#5	3'-6"	
n72	58	#5	4'-4"	
Reinforcement Bars		Lb.	2010	
Reinf. Bars (Epoxy Coated)		Lb.	3300	
Class X Concrete		Cu. Yd.	39.3	
Protective Coat		Sq. Yd.	139	
Concrete Removal		Cu. Yd.	24.9	



NOTES:
For Section C-C, See Sheet 5-27
For Details of Parapet Joints, See Sheet 5-6
For Additional Bar Bending Details See Sht. 5-27.

Reinforcement Bars designated (E) shall be epoxy coated. See Special Provisions.
(*) For Asterisk Designation, See Sht. 5-6.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
SOUTH PARAPET
EAST - NORTH RAMP
F.A.I. RT. 94
COOK COUNTY SECTION 1975-117-R
CHRISTIAN, ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

Rev. 1-18-80 CLK

FILE NAME: DWG:\161749-PWINT-accomonline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\0000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing341



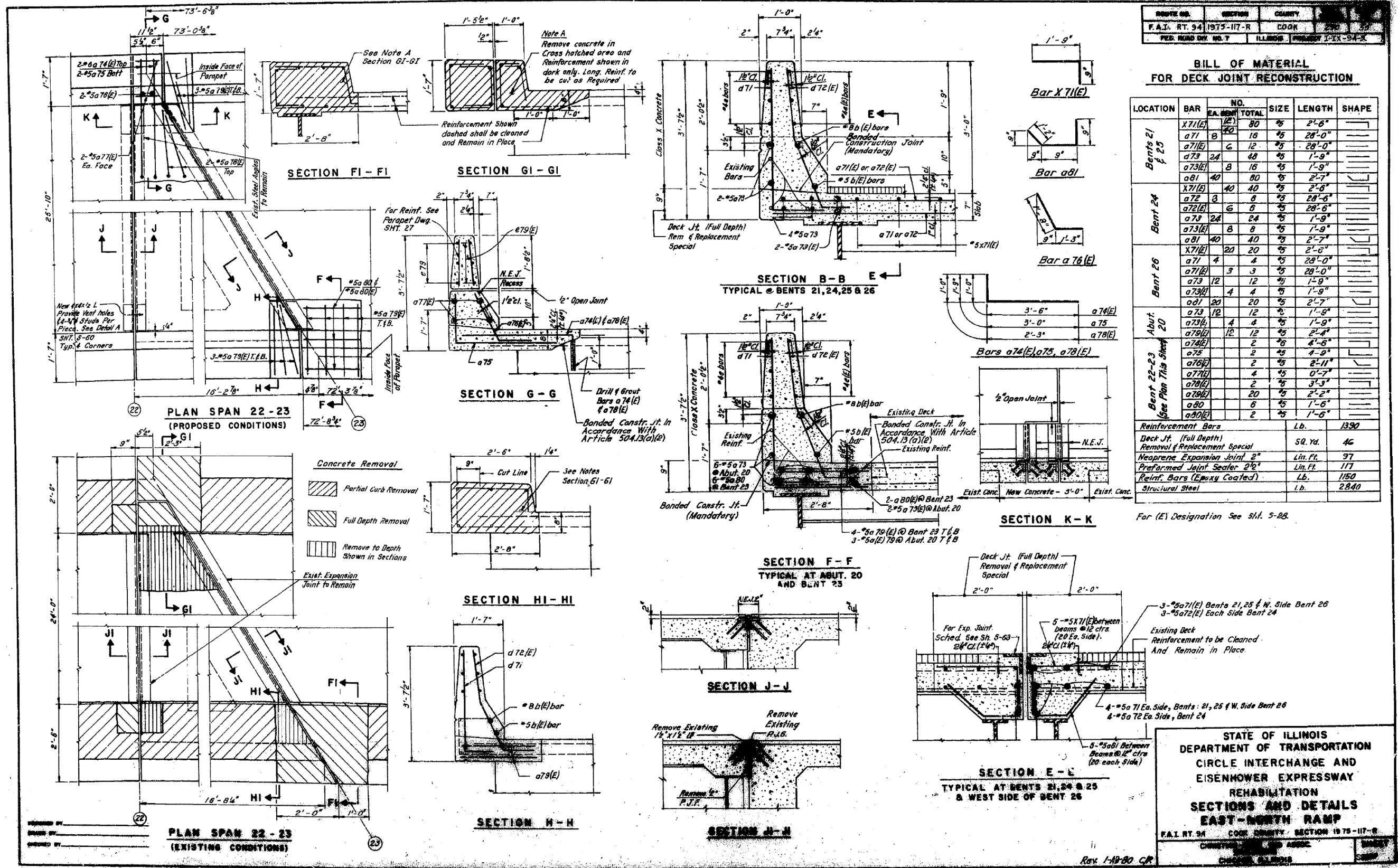
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PLOT SCALE =	N.T.S	CHECKED -	MI, MAI	REVISED -	
PLOT DATE =	7/26/2018				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1829
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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		CHECKED -	MI, MAI	REVISED -	

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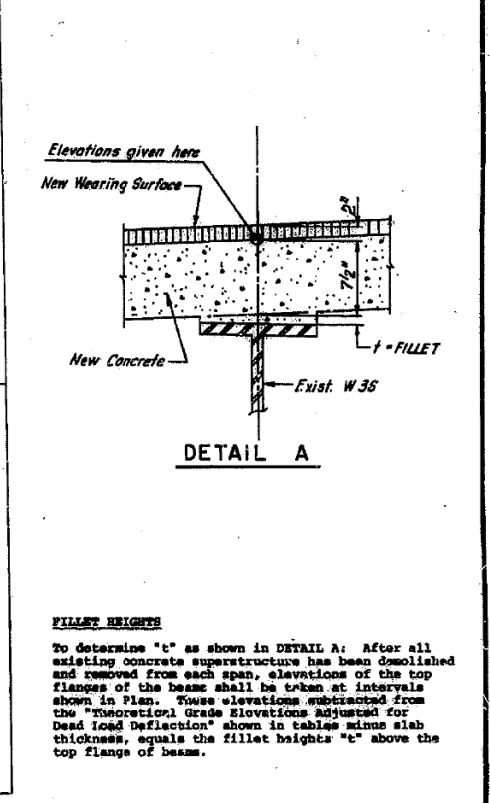
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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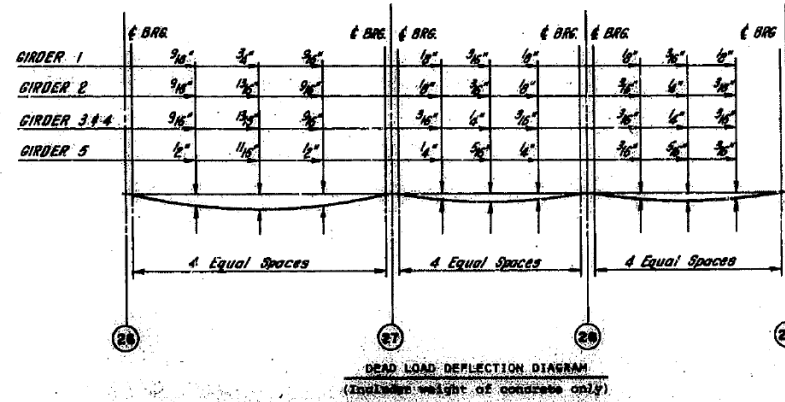
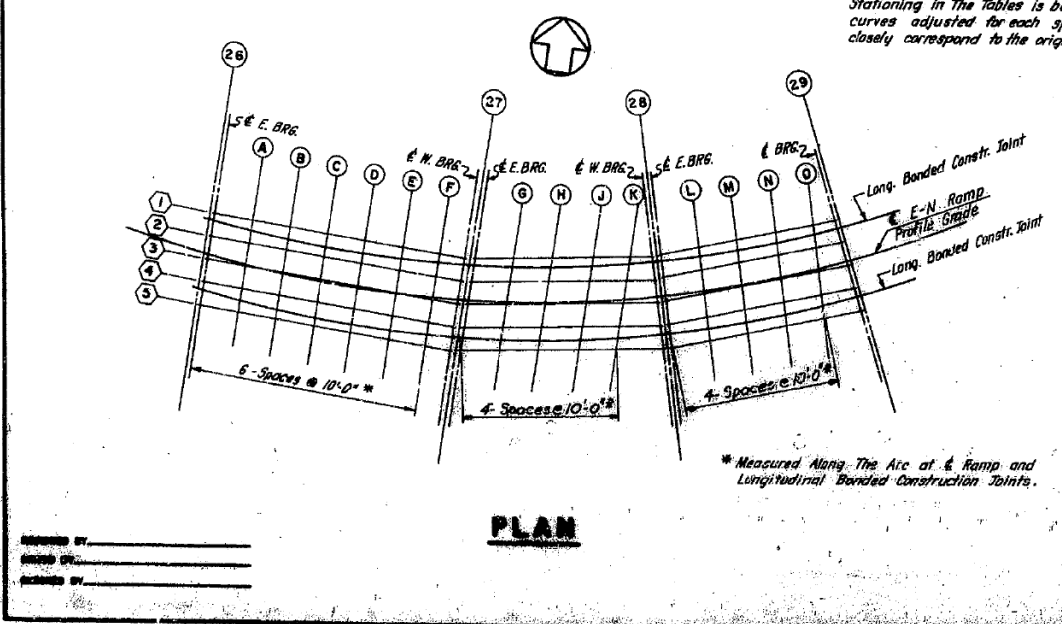
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.
BRG BENT 26	2159.942	-11.264	22.015	22.015	BRG BENT 26	2160.678	-9.159	22.267	22.267	BRG BENT 26	2161.383	0.945	22.519	22.519	BRG BENT 26	2162.266	9.000	22.850	22.850
A	2170.326	-12.296	22.072	22.101	A	2170.833	-6.170	22.322	22.350	A	2171.918	-0.043	22.570	22.599	A	2171.954	9.000	22.937	22.966
B	2180.776	-12.958	22.113	22.165	B	2181.050	-6.818	22.362	22.414	B	2181.911	-0.077	22.609	22.661	B	2181.649	9.000	22.998	23.049
C	2191.263	-13.246	22.143	22.203	C	2191.301	-7.100	22.389	22.453	C	2191.357	-0.954	22.635	22.699	C	2191.331	9.000	23.033	23.097
D	2201.759	-13.159	22.155	22.211	D	2201.560	-7.016	22.401	22.460	D	2201.370	-0.873	22.647	22.706	D	2201.020	9.000	23.042	23.101
E	2212.232	-12.698	22.192	22.247	E	2211.799	-6.567	22.399	22.443	E	2211.985	-0.895	22.645	22.690	E	2210.709	9.000	23.025	23.070
F	2222.655	-11.865	22.193	22.250	F	2221.990	-5.793	22.382	22.398	F	2221.395	0.960	22.630	22.647	F	2220.397	9.000	22.982	22.998
W BRG BENT 27	2228.612	-11.219	22.116	22.116	W BRG BENT 27	2227.817	-5.122	22.366	22.366	W BRG BENT 27	2227.056	0.977	22.616	22.616	W BRG BENT 27	2226.082	9.000	22.944	22.944
E BRG	2230.167	-11.157	22.105	22.105	E BRG	2229.234	-5.064	22.356	22.356	E BRG	2228.537	1.030	22.606	22.606	E BRG	2227.546	9.000	22.933	22.933
G	2240.577	-11.742	21.978	21.988	G	2239.511	-5.683	22.253	22.242	G	2238.491	0.379	22.486	22.499	G	2237.234	9.000	22.845	22.857
H	2251.017	-11.955	21.836	21.850	H	2249.720	-5.938	22.095	22.109	H	2248.479	0.083	22.353	22.372	H	2246.923	9.000	22.730	22.749
J	2261.439	-11.794	21.678	21.690	J	2259.934	-5.828	21.942	21.955	J	2258.475	0.145	22.205	22.224	J	2256.612	9.000	22.590	22.608
K	2271.874	-11.262	21.505	21.509	K	2270.177	-5.354	21.776	21.781	K	2268.454	0.953	22.045	22.059	K	2266.300	9.000	22.423	22.436
W BRG BENT 28	2276.173	-10.933	21.429	21.429	W BRG BENT 28	2276.191	-4.898	21.670	21.670	W BRG BENT 28	2276.207	1.136	21.911	21.911	W BRG BENT 28	2276.228	9.000	22.225	22.225
E BRG	2277.718	-10.952	21.399	21.395	E BRG	2277.701	-4.921	21.637	21.637	E BRG	2277.684	1.110	21.878	21.878	E BRG	2277.664	9.000	22.194	22.194
L	2288.115	-11.625	21.128	21.137	L	2287.869	-5.598	21.375	21.388	L	2287.634	1.428	21.621	21.634	L	2287.353	9.000	21.971	21.984
M	2298.550	-11.926	20.844	20.858	M	2298.075	-5.912	21.097	21.117	M	2297.620	0.102	21.350	21.369	M	2297.041	9.000	21.722	21.741
N	2308.994	-11.854	20.545	20.557	N	2308.290	-5.861	20.806	20.824	N	2307.616	0.132	21.066	21.084	N	2306.730	9.000	21.447	21.466
O	2319.417	-11.410	20.231	20.236	O	2318.488	-5.446	20.500	20.510	O	2317.598	0.919	20.768	20.779	O	2316.418	9.000	21.146	21.158
BRG ABUT 29	2325.842	-10.943	20.229	20.229	BRG ABUT 29	2325.860	-4.918	20.270	20.270	BRG ABUT 29	2325.876	1.113	20.511	20.511	BRG ABUT 29	2325.898	9.000	20.826	20.826
BRG BENT 26	2160.219	-9.000	22.108	22.108	BRG BENT 26	2161.276	0.000	22.480	22.480	BRG BENT 26	2162.057	7.053	22.770	22.770	BRG BENT 26	2162.703	13.162	23.021	23.021
A	2170.591	-9.000	22.206	22.255	A	2171.276	0.000	22.572	22.600	A	2171.782	6.086	22.819	22.846	A	2172.227	12.213	23.068	23.093
B	2180.883	-9.000	22.274	22.316	B	2181.276	0.000	22.636	22.688	B	2181.982	5.463	22.856	22.908	B	2181.801	11.603	23.103	23.148
C	2191.216	-9.000	22.313	22.377	C	2191.276	0.000	22.673	22.737	C	2191.372	5.190	22.881	22.945	C	2191.405	11.336	23.127	23.181
D	2201.548	-9.000	22.322	22.381	D	2201.276	0.000	22.682	22.741	D	2201.189	5.269	22.893	22.951	D	2201.015	11.412	23.138	23.189
E	2211.880	-9.000	22.301	22.346	E	2211.276	0.000	22.663	22.708	E	2210.988	5.697	22.892	22.937	E	2210.608	11.831	23.138	23.178
F	2222.212	-9.000	22.251	22.297	F	2221.276	0.000	22.616	22.633	F	2220.746	6.474	22.879	22.897	F	2220.163	12.591	23.127	23.141
W BRG BENT 27	2228.306	-9.000	22.207	22.207	W BRG BENT 27	2227.198	0.000	22.576	22.576	W BRG BENT 27	2226.327	7.078	22.865	22.865	W BRG BENT 27	2225.629	13.181	23.119	23.119
E BRG	2229.369	-9.000	22.194	22.194	E BRG	2228.670	0.000	22.564	22.564	E BRG	2227.773	7.127	22.856	22.856	E BRG	2227.041	13.227	23.106	23.106
G	2240.201	-9.000	22.092	22.102	G	2238.670	0.000	22.469	22.482	G	2237.514	6.445	22.739	22.732	G	2236.578	12.515	22.992	23.008
H	2250.533	-9.000	21.961	21.975	H	2248.670	0.000	22.347	22.366	H	2247.290	6.111	22.610	22.629	H	2246.150	12.144	22.866	22.890
J	2260.865	-9.000	21.800	21.812	J	2258.670	0.000	22.196	22.214	J	2257.077	6.126	22.467	22.486	J	2255.759	12.115	22.738	22.752
K	2271.197	-9.000	21.609	21.613	K	2268.670	0.000	22.018	22.028	K	2266.850	6.481	22.312	22.325	K	2265.311	12.428	22.578	22.597
W BRG BENT 28	2276.180	-9.000	21.506	21.506	W BRG BENT 28	2276.205	0.000	21.866	21.866	W BRG BENT 28	2276.223	7.170	22.152	22.152	W BRG BENT 28	2276.238	13.205	22.393	22.393
E BRG	2277.712	-9.000	21.473	21.473	E BRG	2277.687	0.000	21.834	21.834	E BRG	2277.669	7.141	22.120	22.120	E BRG	2277.654	13.172	22.362	22.362
L	2288.044	-9.000	21.234	21.248	L	2287.687	0.000	21.603	21.616	L	2287.409	6.455	21.868	21.881	L	2287.193	12.482	22.114	22.127
M	2298.376	-9.000	20.966	20.985	M	2297.687	0.000	21.344	21.364	M	2297.189	6.117	21.603	21.622	M	2296.767	12.135	21.855	21.877
N	2308.709	-9.000	20.667	20.685	N	2307.687	0.000	21.058	21.076	N	2306.971	6.128	21.325	21.345	N	2306.352	12.126	21.583	21.605
O	2319.041	-9.000	20.339	20.348	O	2317.687	0.000	20.744	20.755	O	2316.745	6.489	21.034	21.046	O	2315.927	12.461	21.300	21.313
BRG ABUT 29	2325.848	-9.000	20.107	20.107	BRG ABUT 29	2325.873	0.000	20.466	20.463	BRG ABUT 29	2325.892	7.144	20.752	20.752	BRG ABUT 29	2325.907	13.176	20.992	20.992

ROUTE NO.	SECTION	COUNTY	POST MILE	POST MILE
P.A. 1. RT. 94	1975-117-R	COOK	1.00	1.50
P.D. ROAD NO. 117	ILLINOIS	PROJECT 1-11-94-21		



NOTE: All elevations in the tables are given at the top of the concrete deck as shown in DETAIL A.

STATIONING NOTE:
Stationing in the Tables is based on the arc definition for curves adjusted for each span of the leading & Bent to closely correspond to the original chord definition stations.



NOTE: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIVIL ENGINEER AND
ENGINEERING SUPERVISOR
RAMESH K. SHARMA
P.E. No. 012-000001-1

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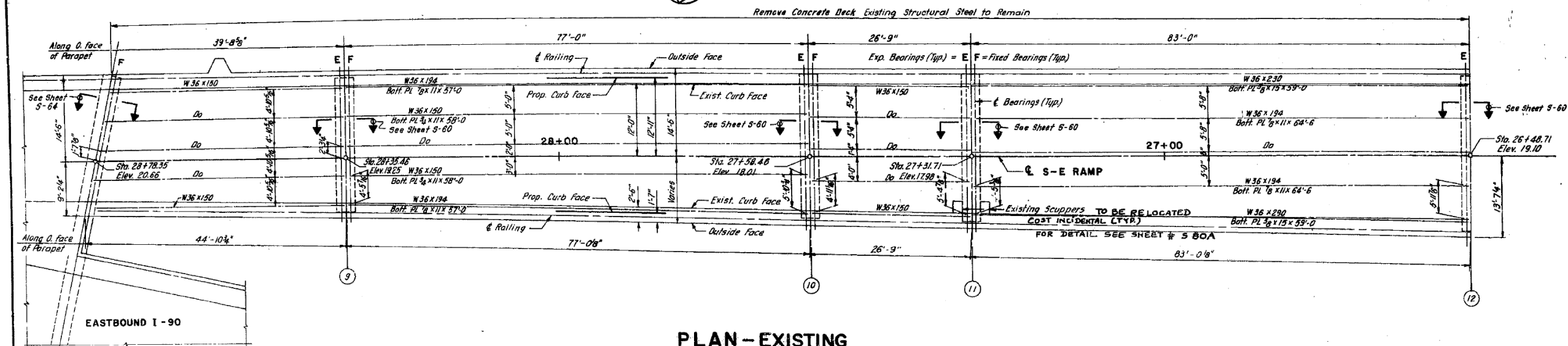
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EXISTING RECORD DRAWINGS

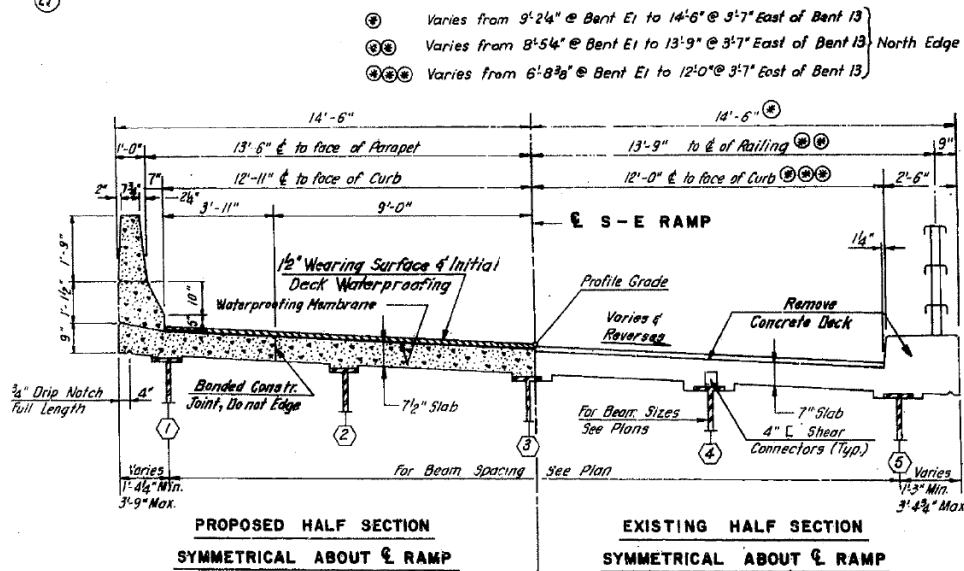
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			CONTRACT NO. 60X93	
		ILLINOIS	FED. AID PROJECT	

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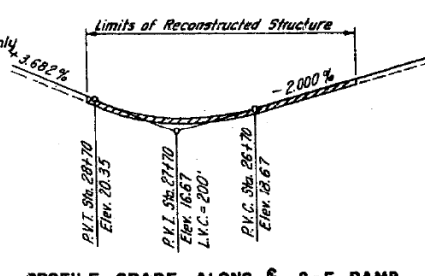
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F.A.I. RT. 94	1975-117-R	COOK	290	57
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT I-1X-94-31		



PLAN - EXISTING
BENT (E1) TO BENT (E12)



TYPICAL DECK CROSS SECTION
LOOKING WEST
(BETWEEN BENTS E1 - 14)



PROFILE GRADE ALONG E S-E RAMP
(Top of Wearing Surface)

DESIGN SPECIFICATIONS
1977 A.A.S.H.T.O. and Interim Specifications As Applicable

DESIGN CRITERIA
DESIGN STRESSES
f_c = 3500 psi Deck Slab, Curb, Rampet
f_y = 60,000 psi Reinforcement

DESIGN METHOD
Load Factor Design

LOADING
H 9 20-44 (New Construction)
2.5 *a' Future Wearing Surface

Use Composite Construction.
Permanent Forms Will Not Be Permitted in Forming Concrete Deck.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPERSTR	SUBSTR	TOTAL
Bridge Deck Overlay Removal	Sq. Yd.	1,184		1,184
Deck Slab Repair (Partial)	Sq. Yd.	116		116
Deck Slab Repair (Full Depth)	Sq. Yd.	7		7
Protective Coat	Sq. Yd.	687		687
Waterproofing Membrane System	Sq. Yd.	2,195		2,195
Bit Concrete Surface Course	Ton	183		183
Class X Concrete	Cu. Yd.	404.7		404.7
Reinforcement Bars	Lb.	36,730		36,730
Reinforcement Bars (Epoxy Coated)	Lb.	54,190		54,190
Concrete Removal	Cu. Yd.	62.7		62.7
Neoprene Expansion Joint 2"	Lin. Ft.	18.9		18.9
Preformed Joint Sealer 2 1/2"	Lin. Ft.	221		221
Furnish and Install Elast. Bearings Type I	Ea.		62	62
Jack Existing Stringer	Ea.		62	62
Repair Concrete Structures	Sq. Ft.		507	507
Neoprene Expansion Joint 2 1/2"	Lin. Ft.	34		34
Deck Joint (Full Depth) Removal & Replacement (Spec)	Sq. Yd.	49		49
Structural Steel	Lb.	5,290		5,290
Removal of Existing Superstruct. No. 3	Ea.	1		1
Steel Pipes	Lin. Ft.	40		40
Epoxy Mortar Repair	Cu. Ft.		13.8	13.8

GENERAL NOTES S-E RAMP

CALCULATED WEIGHT OF STRUCTURAL STEEL = 5,290 Lbs.

ALL NEW STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH TWO COATS OF BASIC LEAD SILICO CHROMATE PAINT.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYSTEM IS APPLIED.

SPECIAL CARE SHALL BE TAKEN IN COMPACTING BITUMINOUS CONCRETE SURFACE ALONG EXPANSION JOINTS TO ACHIEVE PROPER DENSITY AND TO FORM 1/4" LIP. SMALLER ROLLERS AND STEEL FLATES SHALL BE USED FOR THIS PURPOSE AS DIRECTED BY THE ENGINEER.

ALL REINFORCEMENT BARS SHALL CONFORM TO A.A.S.H.T.O. M-31 GRADE 60 OR M-53 GRADE 60.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
GENERAL PLAN
SOUTH-EAST RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRYSTAL AND ARDRE
CHRYSTAL AND ARDRE
CHRYSTAL AND ARDRE
Rev. 10-14-80

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DEPARTMENT OF TRANSPORTATION

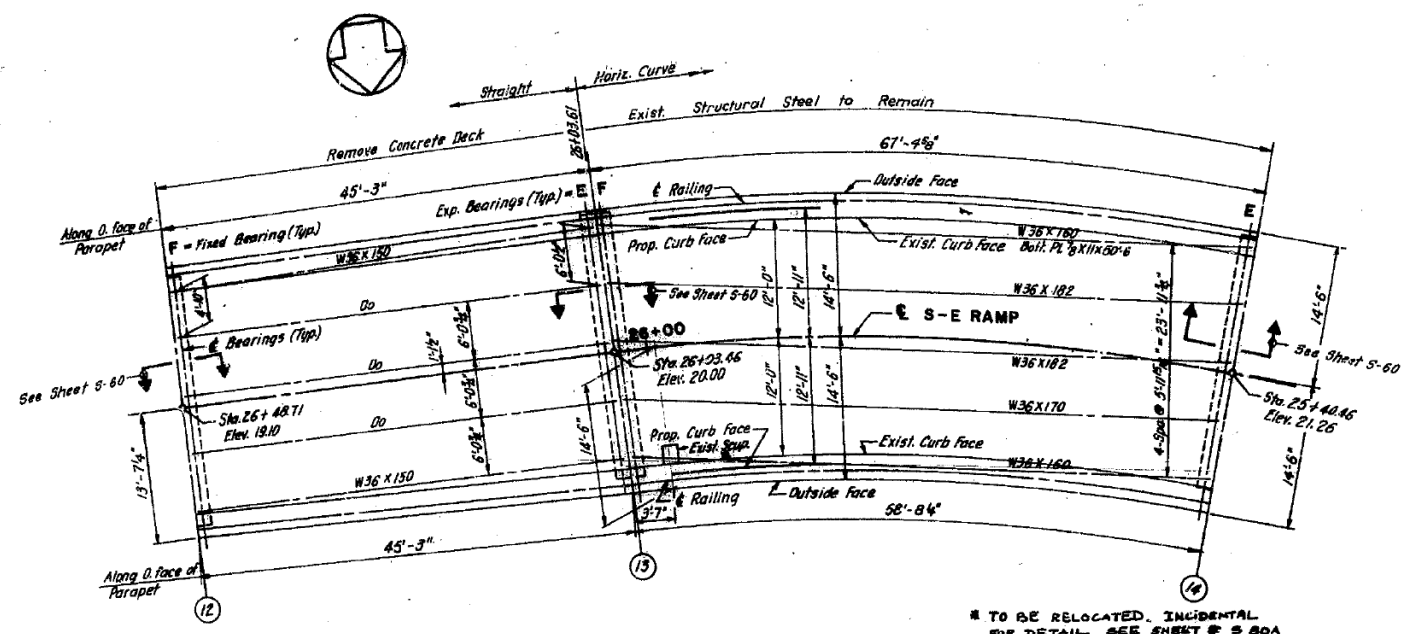
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1832
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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DATE	BY	CHKD	APP'D
11-11-11	MAI	MAI	MAI
PROJECT NO. 2014-013R&B-R			
SHEET NO. 1-12-04-31			



For Alignment See Note A Stk. 5-4.

* TO BE RELOCATED, INCIDENTAL FOR DETAIL SEE SHEET # 5 80A

PLAN - EXISTING
BENT 12 TO BENT 14

CURVE DATA

P.I. Sta.	33+30.23
Δ	167° 55' 02.6"
U	27° 17' 59"
R	210.00'
T	1319.73'
L	593.11'
E	1126.33'
P.C. Sta.	26+10.50
P.T. Sta.	26+03.61
S.E.	0.04 1/4

Superelevation Transition
 From .04 1/4 @ Sta. 26+03.61
 To .028 1/4 @ Sta. 26+70 (South Side High)
 Then to .02 1/4 @ Sta. 27+25 (South Side High)
 Then to -.018 1/4 @ Sta. 28+67.5 (North Side High)

WORK TO BE PERFORMED

BENT E1 TO BENT 14	BENT 14 TO ABUTMENT 16
1 - REMOVE EXISTING DECK SLAB AND CURB & BUTTER AS SHOWN ON PLAN & IN CROSS SECTION	1 - REMOVE EXISTING OVERLAY
2 - JACK DECK AND REPLACE ALL EXIST. GRAPHITED EXPANSION BEARINGS WITH ELASTOMERIC TYPE I BEARINGS, CLEAN AND PAINT FIXED BEARINGS	2 - REMOVE HANDRAIL AND PART OF EXISTING CURB AS SHOWN ON THE CROSS-SECTIONS
3 - RECONSTRUCT DECK SLAB USING EPOXY COATED TOP REINFORCEMENT, WATERPROOF AND RESURFACE WITH 1 1/2" BITUMINOUS SURFACE COURSE	3 - REMOVE ALL LOOSE AND DETERIORATED CONCRETE FROM DECK AT LOCATIONS MARKED BY THE ENGINEER
4 - REPAIR SUBSTRUCTURES AS REQUIRED (REPAIRS SHALL BE DETAILED ON DESIGN PLANS OR SPECIFIED IN SPECIAL PROVISIONS)	4 - JACK DECK AND REPLACE ALL EXISTING GRAPHITED EXPANSION BEARINGS WITH ELASTOMERIC TYPE I BEARINGS, CLEAN AND PAINT FIXED BEARINGS
	5 - CONSTRUCT CONCRETE PARAPET
	6 - REPAIR DECK SLAB WITH CONCRETE
	7 - RECONSTRUCT DECK EXPANSION JOINTS
	8 - WATERPROOF AND RESURFACE DECK WITH 1 1/2" BIT. SURF. COURSE
	9 - MODIFY TOP OF WING WALLS
	10 - REPAIR SUBSTRUCTURES AS REQUIRED

NOTES:
For Typical Deck Cross Section, See Sheet 5-31

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 RENOVATION
 GENERAL PLAN
 BRIDGE - EAST ABUT
 F.A.I. RT. NO. 2014-013R&B-R

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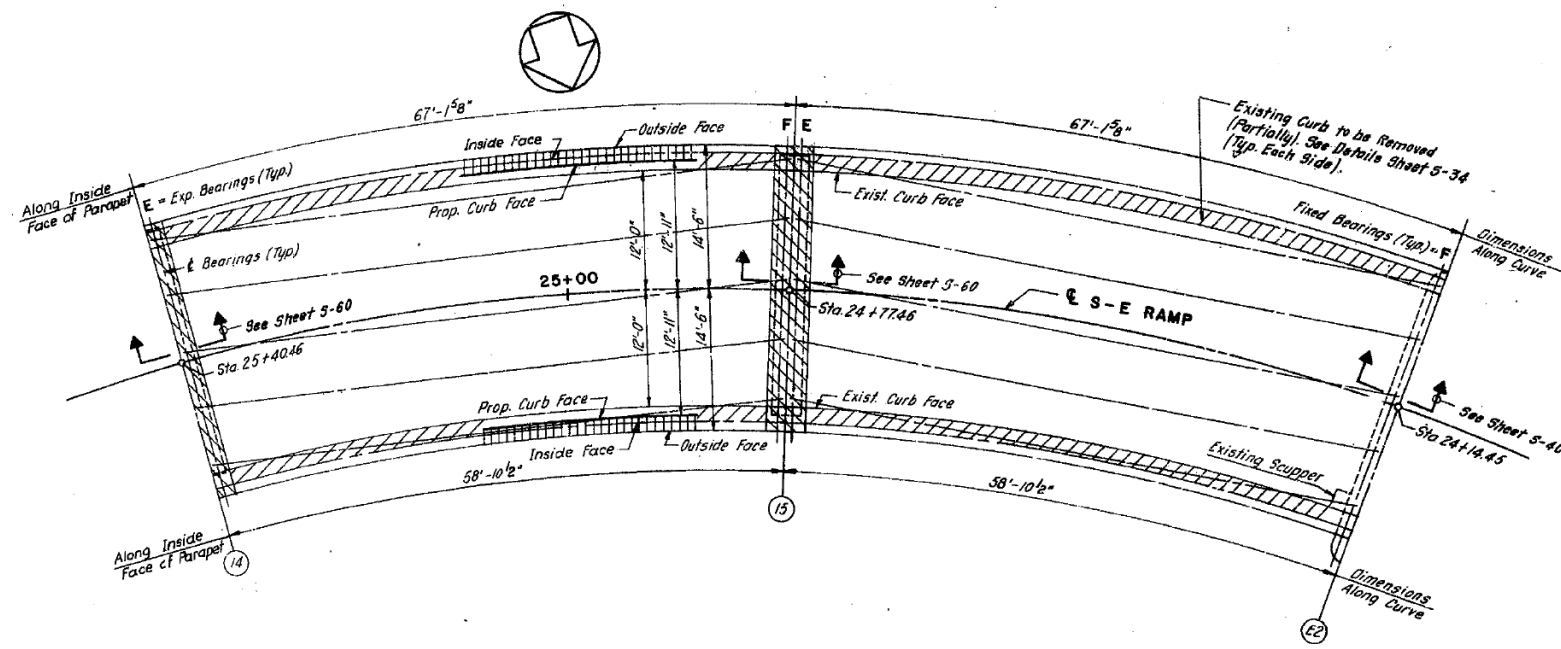
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 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

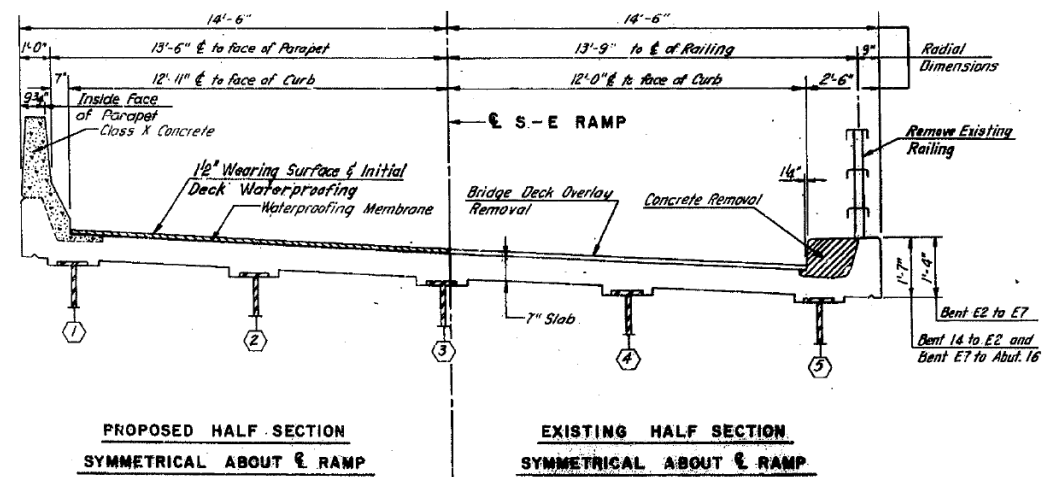
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1833
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 94	1975-117-R	COOK	290	59
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT 1-TX-84-31		



PLAN
BENT 14 TO BENT E2



TYPICAL DECK CROSS SECTION
LOOKING WEST
(BETWEEN BENTS 14 - 16)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
GENERAL PLAN
SOUTH - EAST RAMP
F.A.I. RTE. 94 COOK COUNTY SECTION 1975-117-R
CONTRACT NO. 60X93

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DRAWN BY: _____
CHECKED BY: _____



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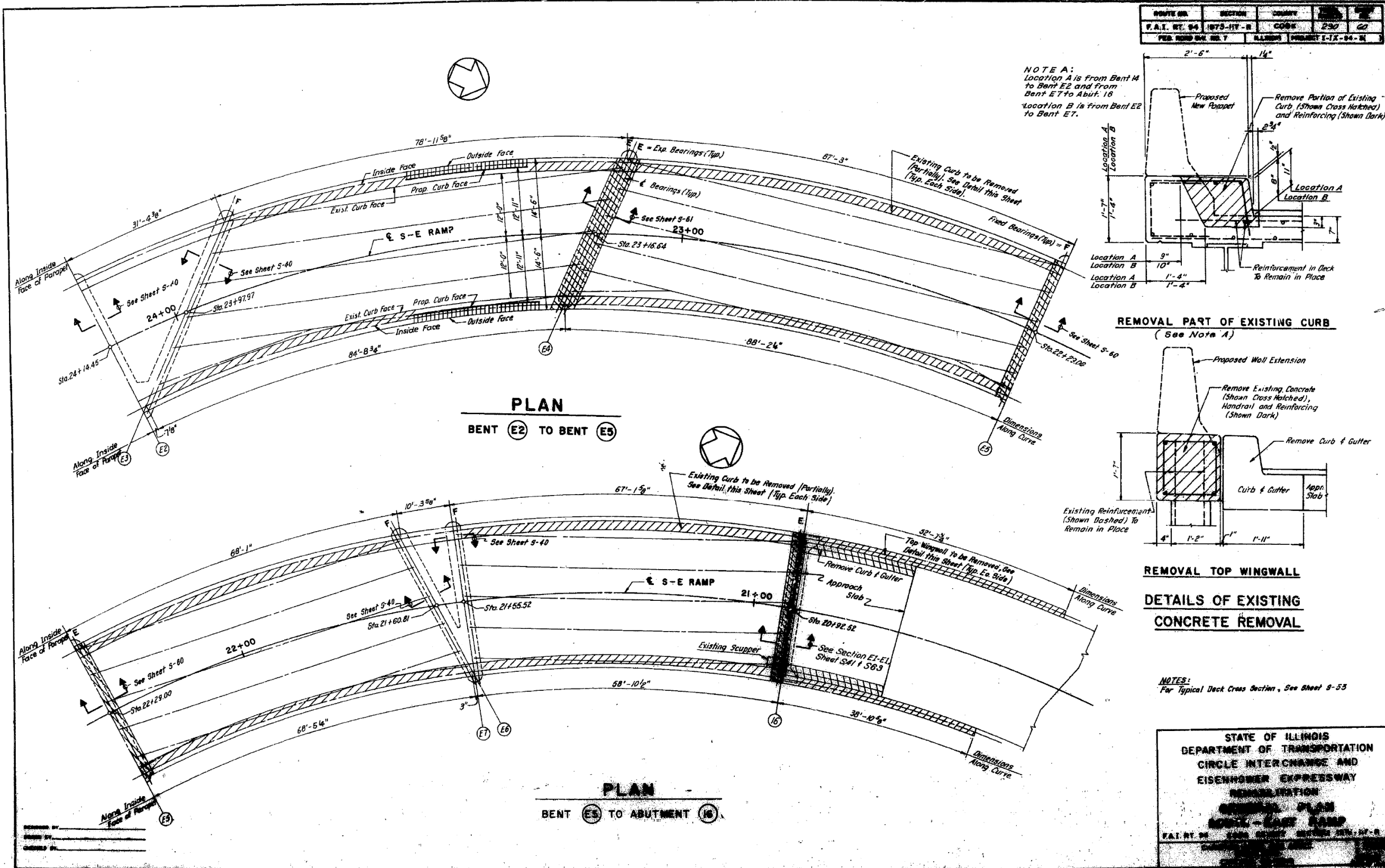
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1834
				CONTRACT NO. 60X93

ILLINOIS FED. AID PROJECT

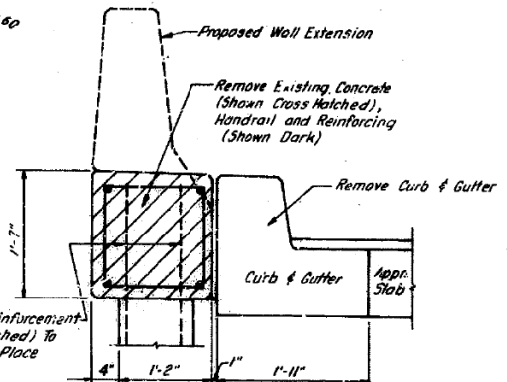
FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1875-117-B	COOK	290	60
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT E-12-94-B		

NOTE A:
 Location A is from Bent 14 to Bent E2 and from Bent E7 to Abut. 16
 Location B is from Bent E2 to Bent E7.

REMOVAL PART OF EXISTING CURB
 (See Note A)



REMOVAL TOP WINGWALL
DETAILS OF EXISTING CONCRETE REMOVAL

NOTES:
 For Typical Deck Cross Section, See Sheet S-53

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
GENERAL PLAN
 SOUTH - EAST RAMP
 F.A.I. RT. 94 1875-117-B COOK 290 60
 PROJECT E-12-94-B

FILE NAME: D:\161749-P\INT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_1\000_CAD\008_Structural\Plans\33906-60X93-SXX-Existing\347



USER NAME =	ahmad.issa	DESIGNED -	REVISIONS -
PLOT SCALE =	N.T.S	CHECKED -	REVISIONS -
PLOT DATE =	7/26/2018	DRAWN -	REVISIONS -
		CHECKED -	REVISIONS -
		MI, MAI	REVISIONS -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

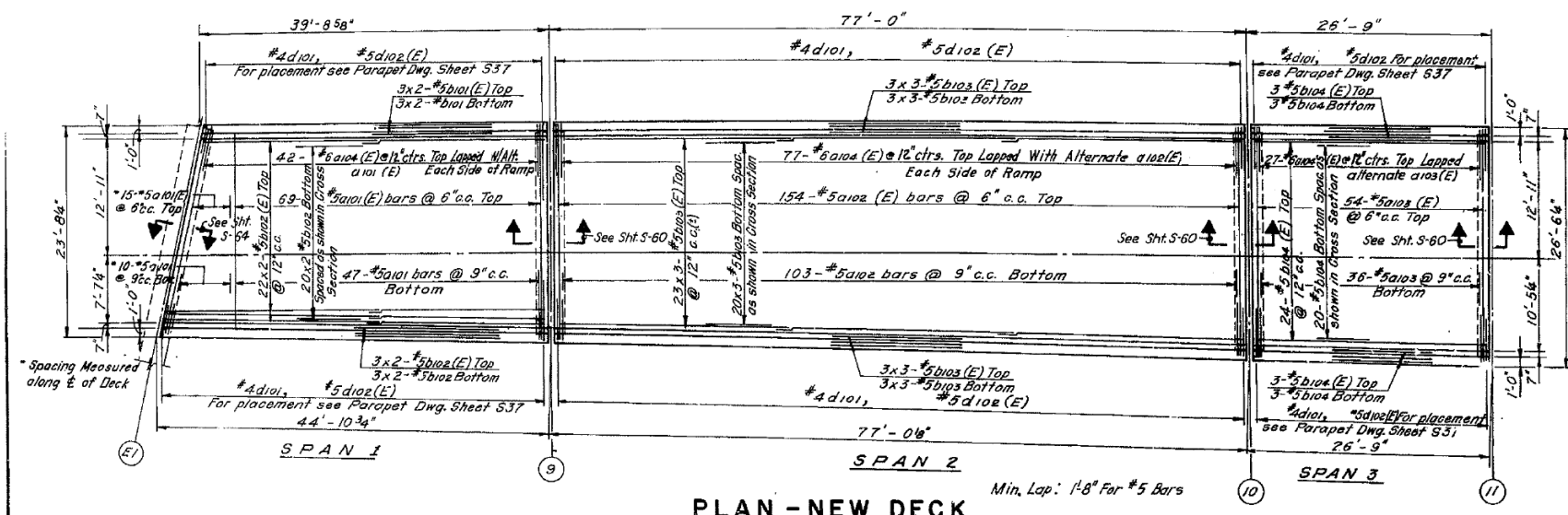
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1835
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

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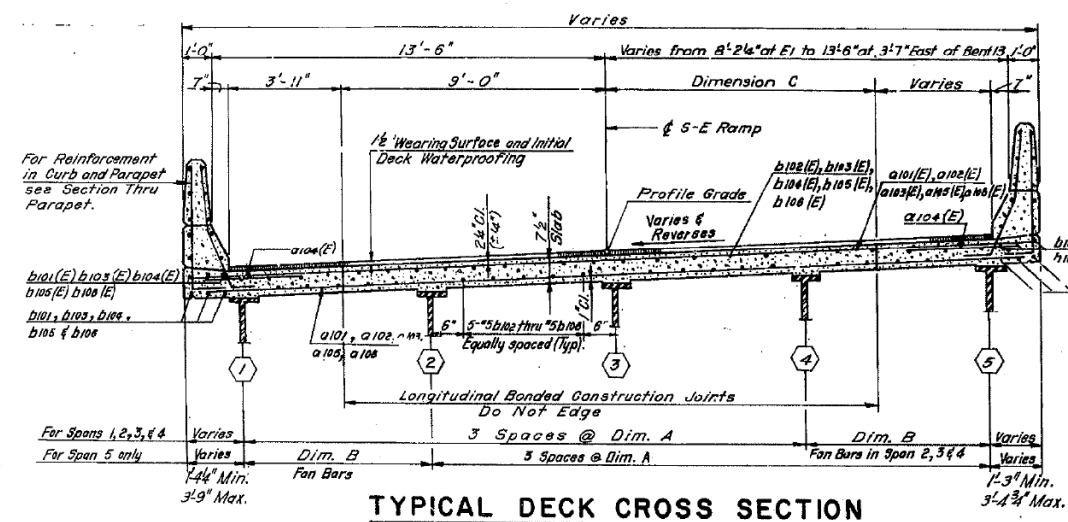
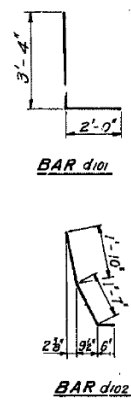
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	61
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT 7-1X-94-3()		



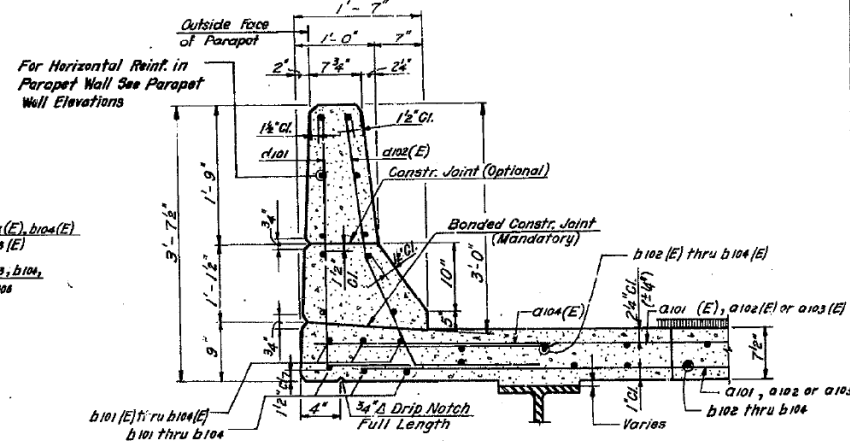
PLAN - NEW DECK

BILL OF MATERIAL

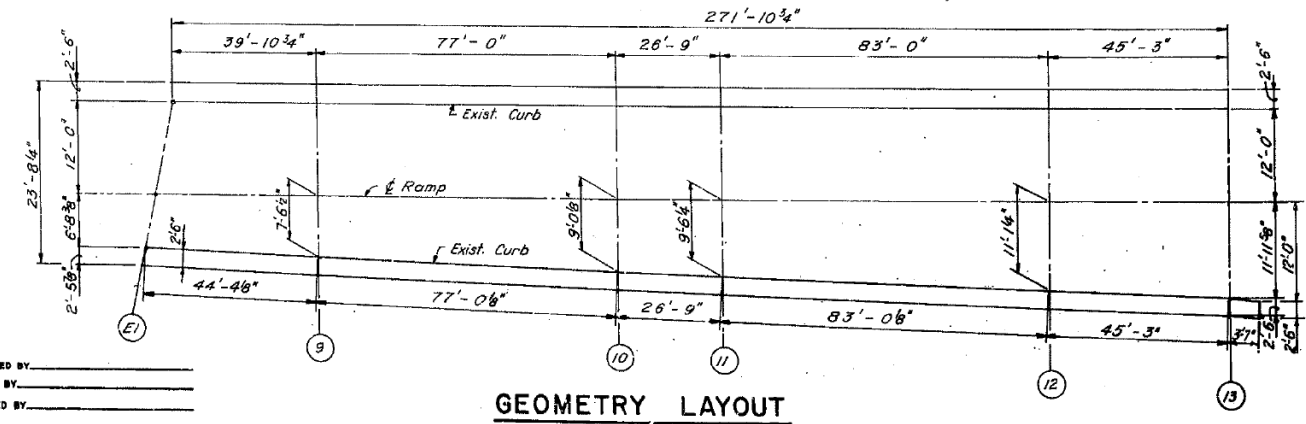
BAR NO.	SIZE	LENGTH	SHAPE
a101(E)	#5	23'-3"	
a102(E)	#5	24'-2"	
a103(E)	#5	25'-6"	
a104(E)	#6	5'-0"	
a101	#5	23'-3"	
a102	#5	24'-2"	
a103	#5	25'-6"	
b101(E)	#5	20'-6"	
b101	#5	20'-6"	
b102(E)	#5	23'-0"	
b102	#5	23'-0"	
b103(E)	#5	26'-8"	
b103	#5	26'-8"	
b104(E)	#5	26'-3"	
b104	#5	26'-3"	



TYPICAL DECK CROSS SECTION



SECTION THRU PARAPET



GEOMETRY LAYOUT

SPAN	DIM. A	DIM. B	DIM. C
EI-9	4'-10 5/16"	4'-10 5/16"	6'-0"
9-10	5'-0"	4'-5 1/8"	6'-0"
10-11	5'-4"	5'-10 3/4"	7'-6"
11-12	5'-8"	4'-11 1/8"	8'-0"
12-13	6'-0 3/4"	8'-10"	9'-0"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
SUPERSTRUCTURE
SOUTH-EAST RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1973-117-R
CHRISTIAN-EDGE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
335 of

FILE NAME: D:\V161749-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing348



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		CHECKED -	MI, MAI	REVISED -	

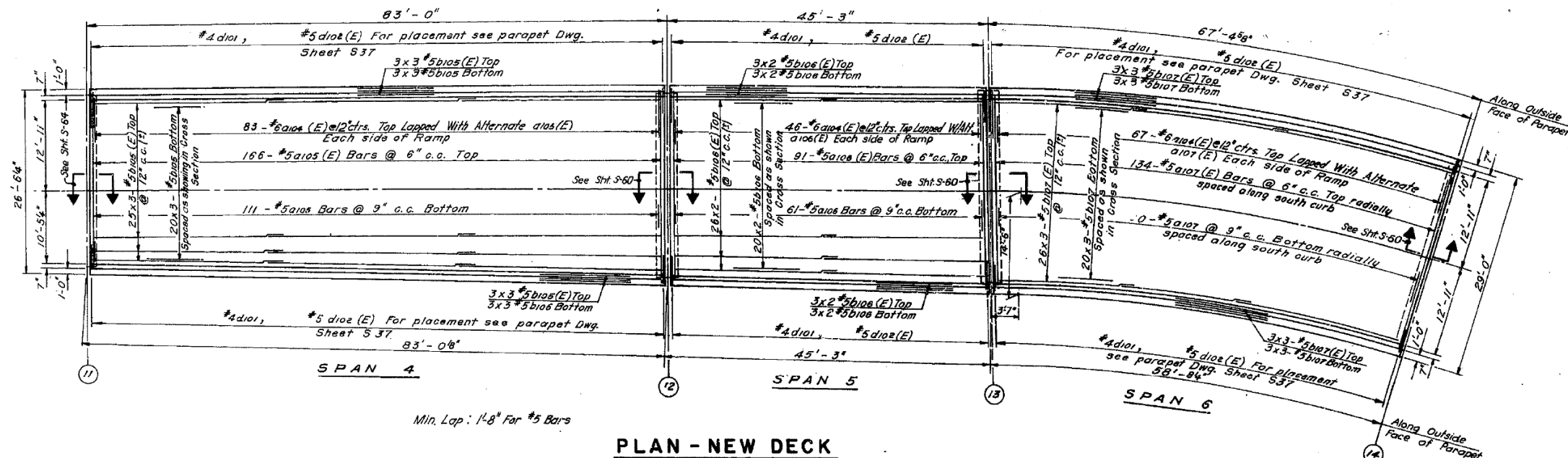
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 60X93
				ILLINOIS FED. AID PROJECT

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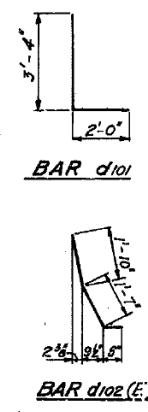
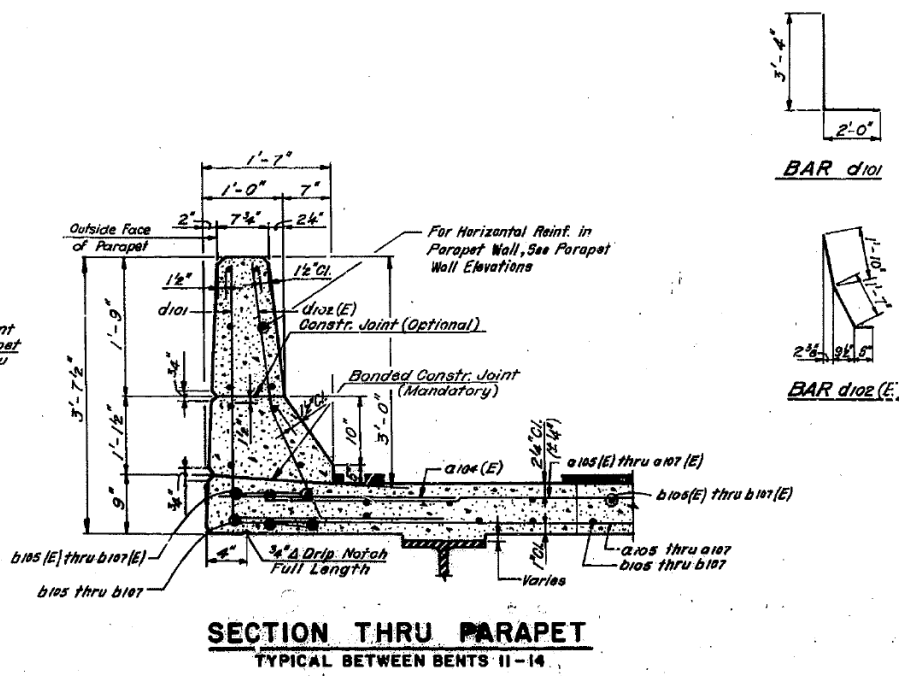
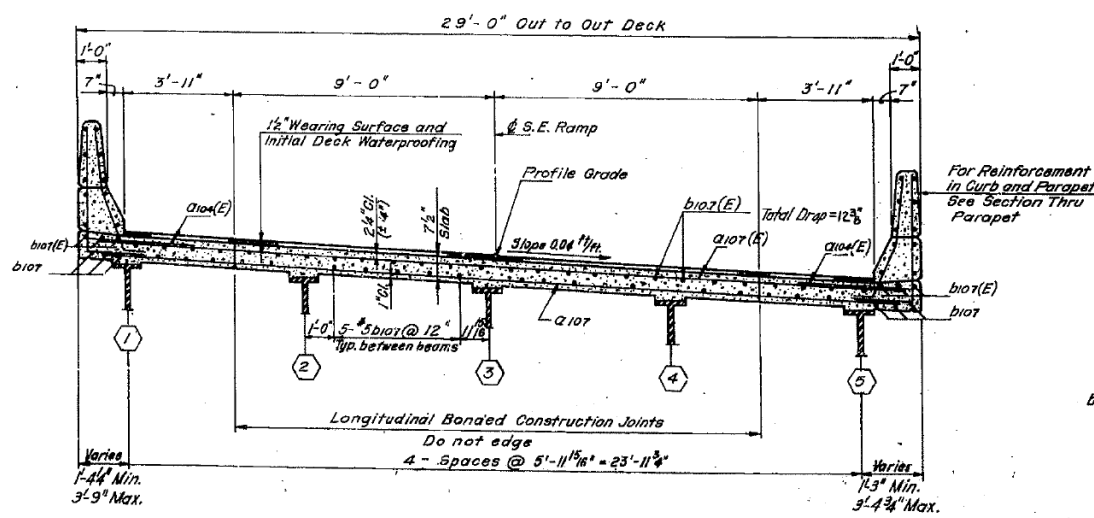
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	62
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-X-94-34		



BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
a104(E)	392	#6	5'-0"
a105(E)	166	#5	26'-2"
a106(E)	91	#5	27'-8"
a107(E)	134	#5	28'-0"
a105	111	#5	26'-2"
a106	61	#5	27'-8"
a107	90	#5	28'-0"
b105(E)	93	#5	28'-8"
b105	78	#5	28'-8"
b106(E)	64	#5	23'-4"
b106	52	#5	23'-4"
b107(E)	96	#5	23'-7"
b107	78	#5	23'-7"

Reinforcement Bars	Lb.	12,940
Reinf. Bars (Epoxy Coated)	Lb.	20,720
Class X Concrete	Cu. Yd.	131.3
Structural Steel	Lb.	1,300
Preformed Joint Sealers, 2"	Lin. Ft.	57
Waterproofing Membrane System	Sq. Yd.	537
Bit Concrete Surface Course	Ton	45



Reinforcement Bars designated (E) shall be epoxy coated. See Special Provisions.

Bars Indicated Thus 20x3-#5 etc., indicate 20 Lines of Bars With 3 Lengths per Line.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
SUPERSTRUCTURE
SOUTH-EAST RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R

CHRISTIAN-ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET NO. 538

FILE NAME: D:\V1617479-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing349



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

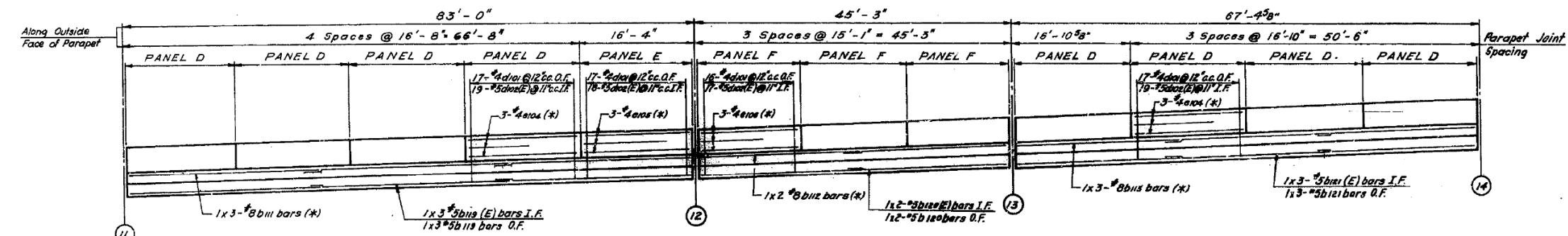
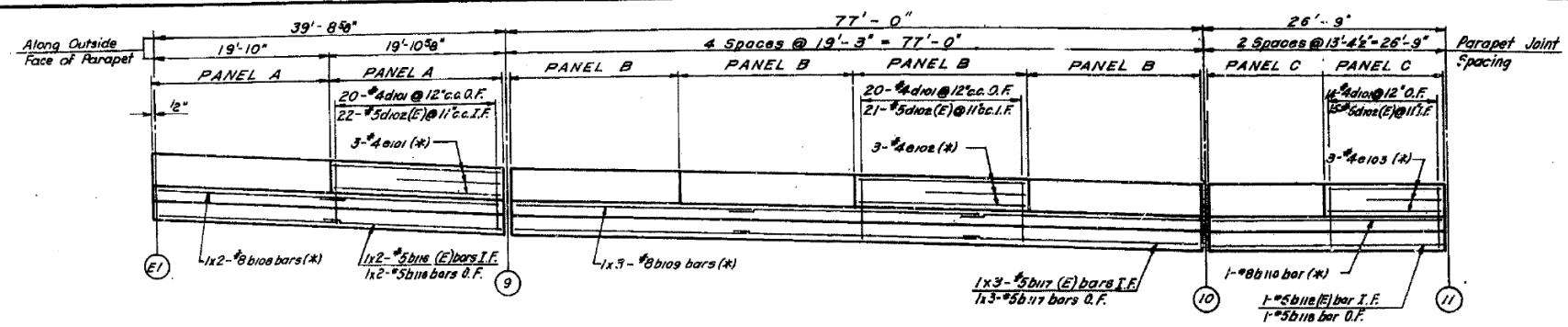
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1837

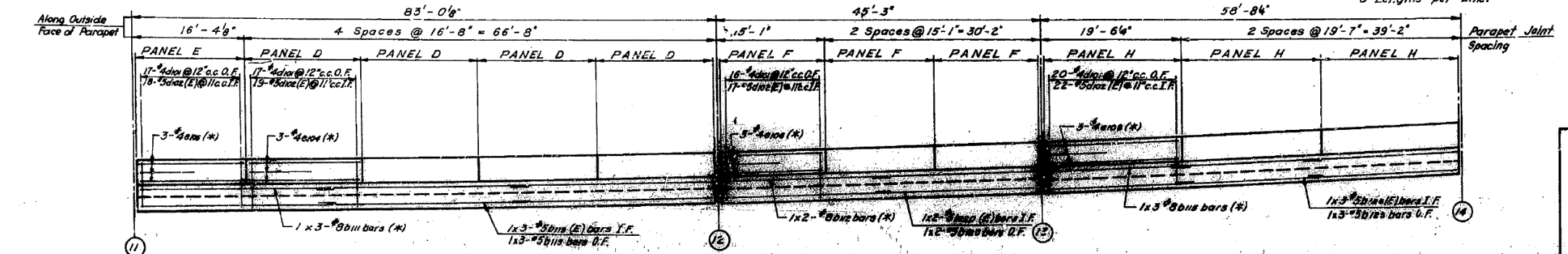
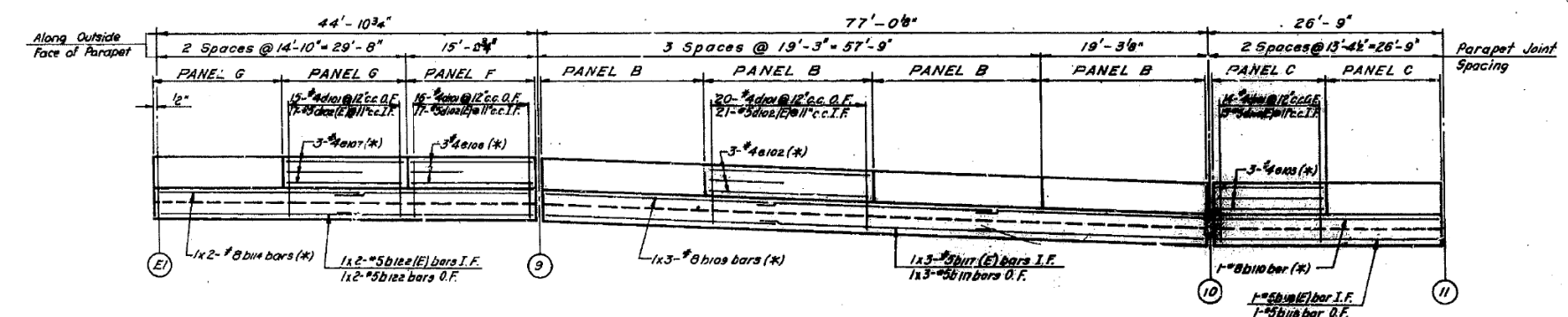
CONTRACT NO. 60X93

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



ELEVATION RIGHT PARAPET
SHOWING INSIDE FACE



ELEVATION LEFT PARAPET

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. RT. 94	1977-117-R	COOK	250	63
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-UT-94-3100		

BILL OF MATERIAL

BAR	SIZE	LENGTH	SHAPE
b1100	2	2	21'-0"
b1101	6	6	27'-5"
b1102	2	2	28'-5"
b1103	6	6	29'-5"
b1104	4	4	23'-9"
b1105	3	3	24'-0"
b1106	2	2	23'-6"
b1107	3	3	21'-2"
b1108	2	2	20'-7"
b1109	2	2	20'-7"
b1110	6	6	28'-0"
b1111	6	6	26'-0"
b1112	2	2	26'-5"
b110	2	2	26'-5"
b119E	6	6	28'-8"
b119	6	6	28'-0"
b120E	4	4	23'-5"
b120	4	4	23'-3"
b121E	3	3	23'-6"
b121	3	3	23'-6"
b122E	2	2	23'-1"
b122	2	2	23'-1"
b123E	3	3	20'-7"
b123	3	3	20'-7"
d101	630	4	3'-4"
d102E	753	5	3'-0"
e101E	6	6	19'-6"
e101	24	24	18'-11"
e102E	12	12	13'-0"
e102	36	36	16'-4"
e103E	6	6	18'-0"
e103	21	21	14'-8"
e104E	8	8	14'-8"
e104	9	9	19'-3"

NOTES:
For Typical Section Thru Parapet See Sheet 5-35 & 5-36
For Reinforcement Bar Bending Detail Diagrams See Sheet 5-35 & 5-36

Min. Lap: 1'-8" For #5 Bars
2'-6" For #8 Bars

Bars Indicated Thus 1x3-#5 etc., Indicate 1 Line of Bars With 3 Lengths per Line.

Reinforcement Bars	Lb.	6,430
Joint Bars (Spot Control)	Lb.	7,030
Close & Concrete	Cu. Yd.	74.6
Protective Coat	Sq. Yd.	279

Reinforcement Bars designated (E) shall be Epoxy Coated. See Special Provisions.

(*) For Asterisk Designation, See Sht. 56.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
PARAPETS
SOUTH-EAST RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1977-117-R
SHEET 250 OF 63
APR 7 9 73

FILE NAME: p:\v1617479-PWINT-aecom\line\local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Plans\33906-60X93-SXX-Existing350



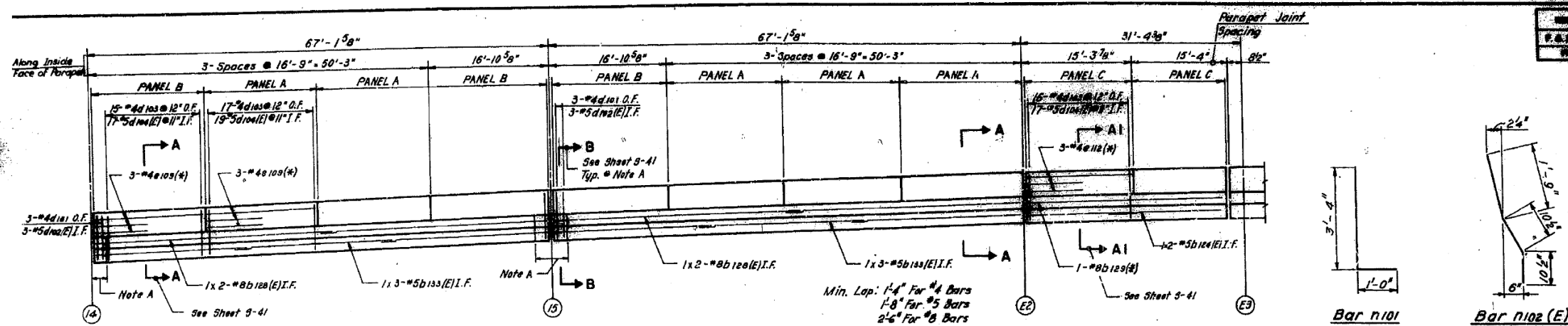
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

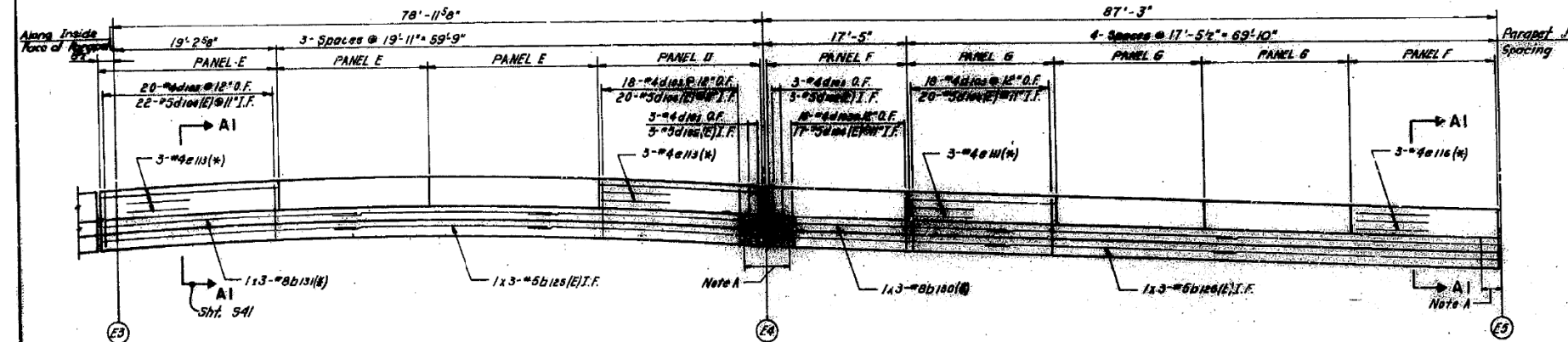
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90/94/290	2014-013R&B-R	COOK	1972	1838
			CONTRACT NO. 60X93	
			ILLINOIS FED. AID PROJECT	

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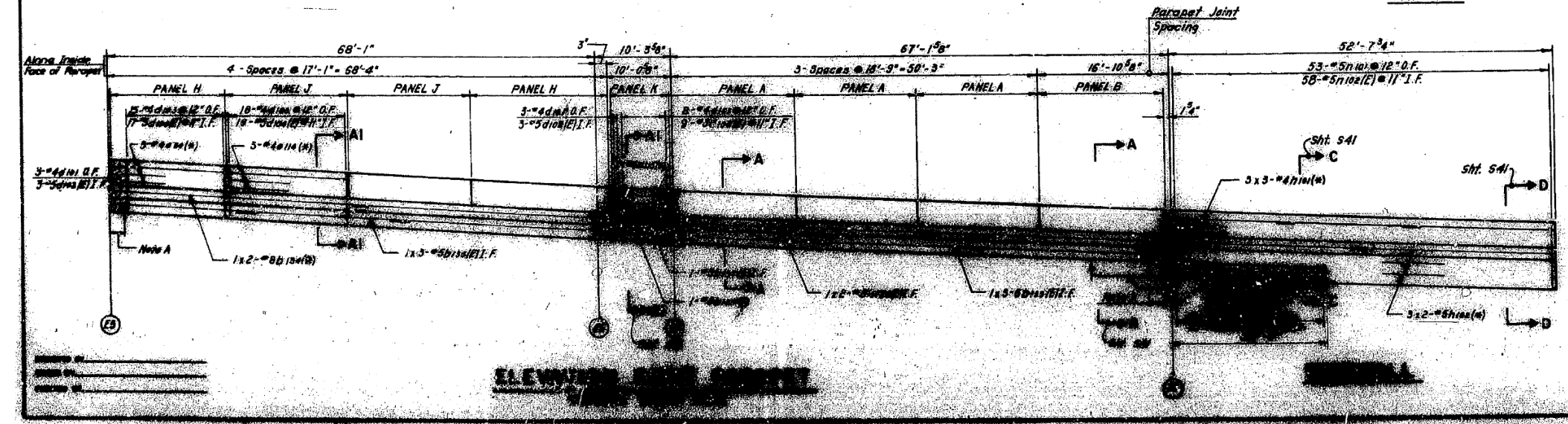


ELEVATION RIGHT PARAPET
SHOWING INSIDE FACE

Bars Indicated Thus 3x2-#5 etc, Indicate 3 Lines of Bars With 2 Lengths per Line.



ELEVATION RIGHT PARAPET
SHOWING INSIDE FACE



ELEVATION RIGHT PARAPET
SHOWING INSIDE FACE

NO.	DESCRIPTION	QTY	UNIT
1	REINFORCEMENT BARS		
2	CONCRETE		
3	FORMWORK		

BILL OF MATERIAL				
BAR NO.	SIZE	LENGTH	SHAPE	
101	#4	2'-11"		
102(E)	#4	4'-2"		
103	#5	3'-8"		
104	#5	3'-6"		
105	#5	3'-4"		
106	#5	3'-0"		
107	#5	3'-0"		
108	#5	3'-0"		
109	#5	3'-0"		
110	#5	3'-0"		
111	#5	3'-0"		
112	#5	3'-0"		
113	#5	3'-0"		
114	#5	3'-0"		
115	#5	3'-0"		
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197	#5	3'-0"		
198	#5	3'-0"		
199	#5	3'-0"		
200	#5	3'-0"		

Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.

NOTE A:
Back Joint (Full Depth) Removal & Replacement Special.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND
OPERATIONS DIVISION
DESIGN AND CONSTRUCTION
SECTION

DATE: 11/13/18

FILE NAME: D:\V16179-P\INT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Plans\60X93-SXX-Existing\351



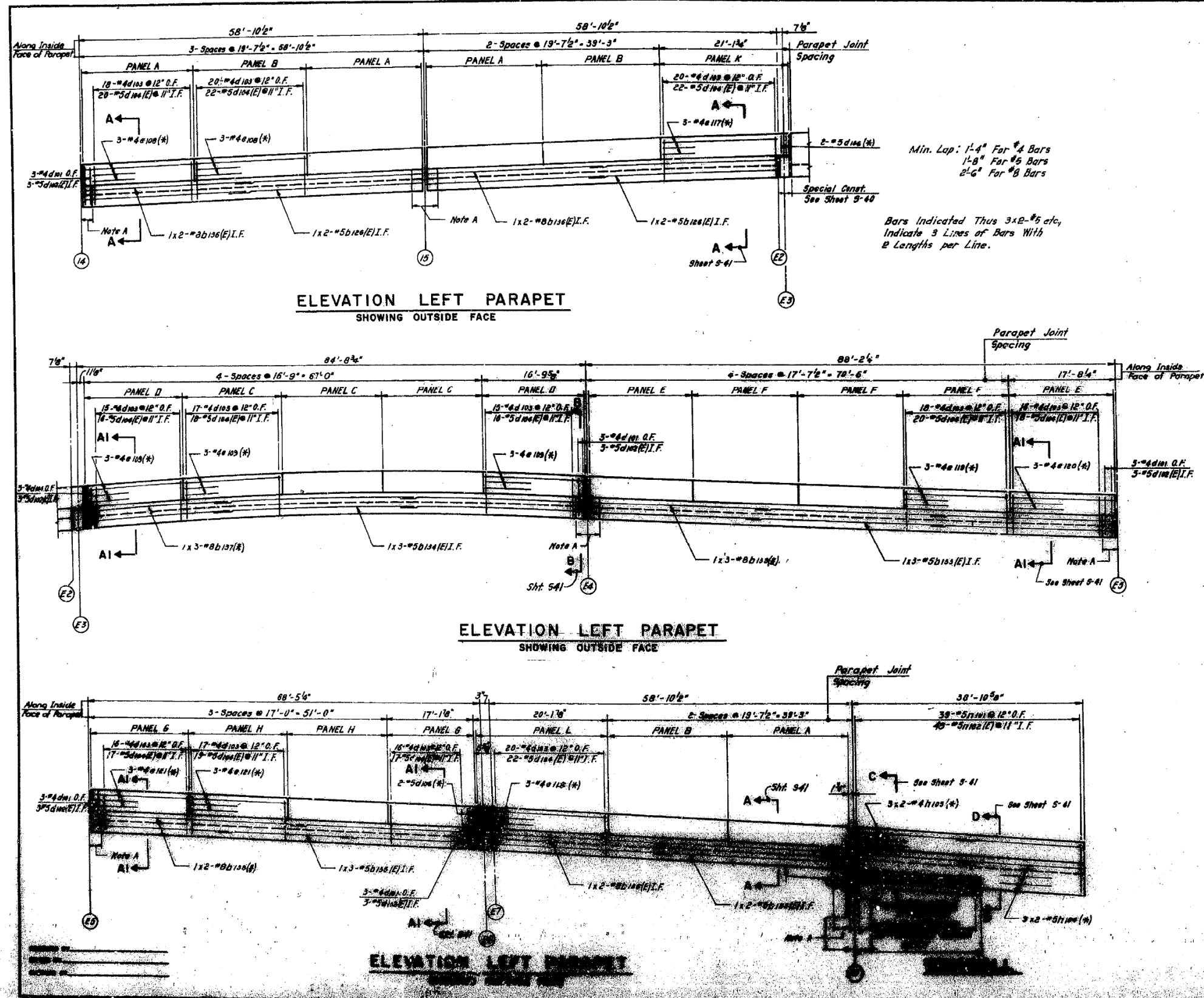
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PLOT DATE =	7/26/2018	DRAWN -	REVISIONS -
		CHECKED -	REVISIONS -
		MI, MAI	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1839
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



NO.	DATE	BY	CHKD.
1	09/24/20	ahmad.issa	MI, MAI

BAR	NO.	SIZE	LENGTH	REMARKS
1	1	#4	20'-0"	
1	2	#4	20'-0"	
1	3	#4	20'-0"	
1	4	#4	20'-0"	
1	5	#4	20'-0"	
1	6	#4	20'-0"	
1	7	#4	20'-0"	
1	8	#4	20'-0"	
1	9	#4	20'-0"	
1	10	#4	20'-0"	
1	11	#4	20'-0"	
1	12	#4	20'-0"	
1	13	#4	20'-0"	
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1	16	#4	20'-0"	
1	17	#4	20'-0"	
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1	89	#4	20'-0"	
1	90	#4	20'-0"	
1	91	#4	20'-0"	
1	92	#4	20'-0"	
1	93	#4	20'-0"	
1	94	#4	20'-0"	
1	95	#4	20'-0"	
1	96	#4	20'-0"	
1	97	#4	20'-0"	
1	98	#4	20'-0"	
1	99	#4	20'-0"	
1	100	#4	20'-0"	

(* For Asterisk Designation See Sheet 3-B.

Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.
 For Reinforcement Bar Bending Details See Sht. 5-35.
NOTE A:
 Deck Joint (Full Depth Removal & Replacement Special).

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EVERGREEN EXPRESSWAY
 INTERCHANGE
 PARAPETS AND BRACKETS
 SHEET 5-40

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USER NAME =	ahmad.issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

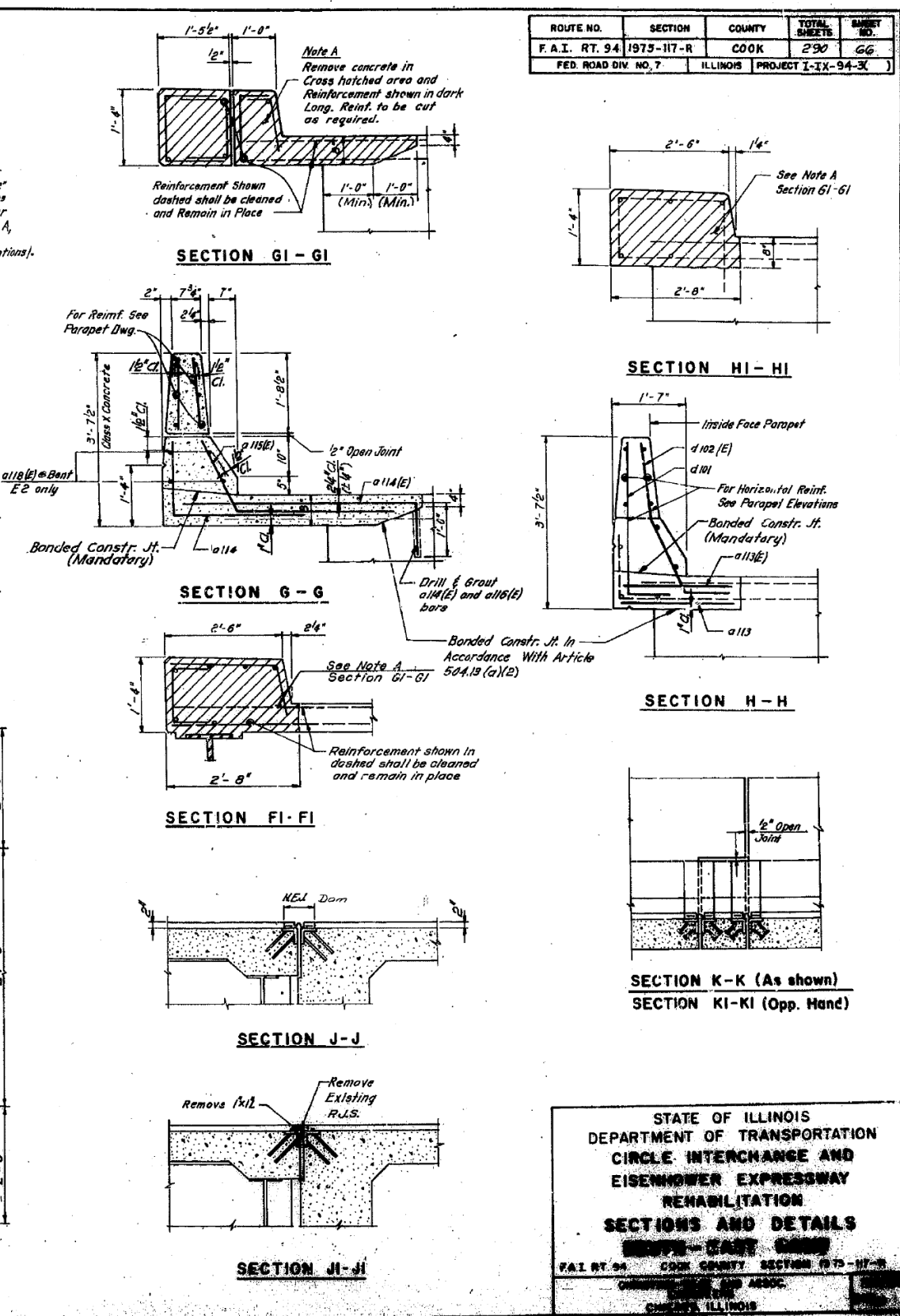
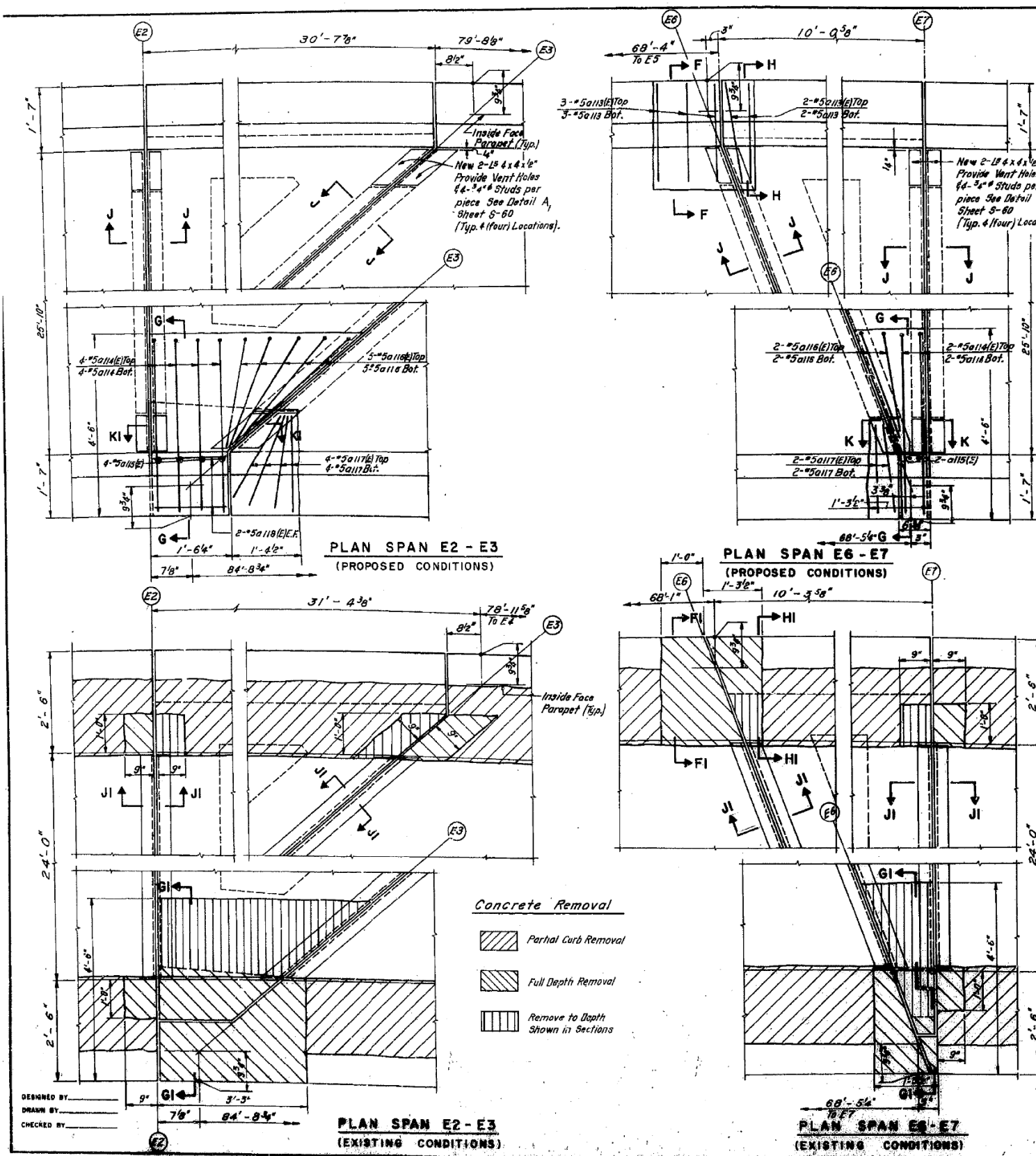
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1840
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1973-117-R	COOK	290	66
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3		



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 RENOVATION
 SECTIONS AND DETAILS
 BRIDGE - EAST GABION

F.A.I. RT. 94 COOK COUNTY SECTION 1973-117-R
 CONTRACT NO. 60X93

FILE NAME: D:\161749-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Plans\33906-60X93-SXX-Existing353



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1841
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

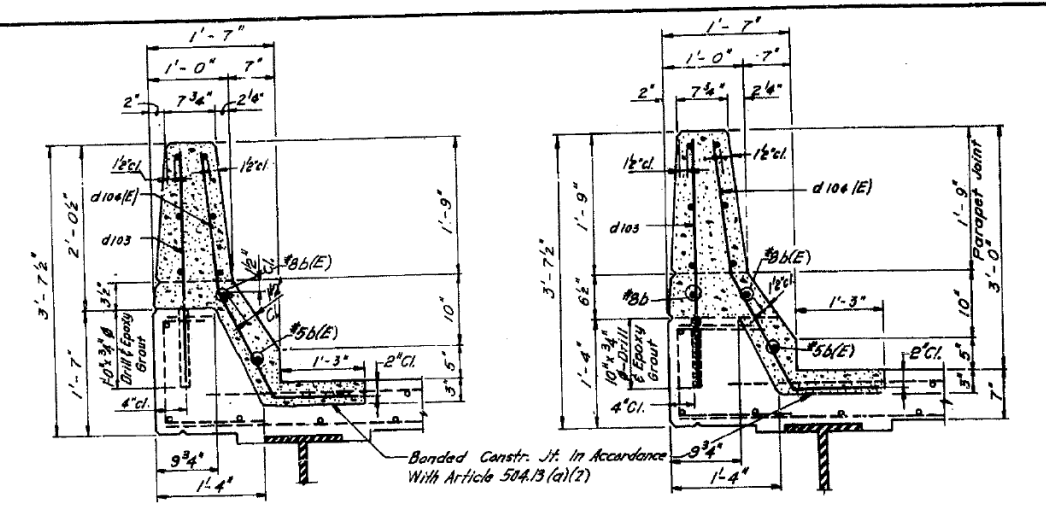
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F.A.I. RT. 94	1471-1472-R	COOK	290	67
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

BILL OF MATERIAL FOR DECK JOINT RECONSTRUCTION

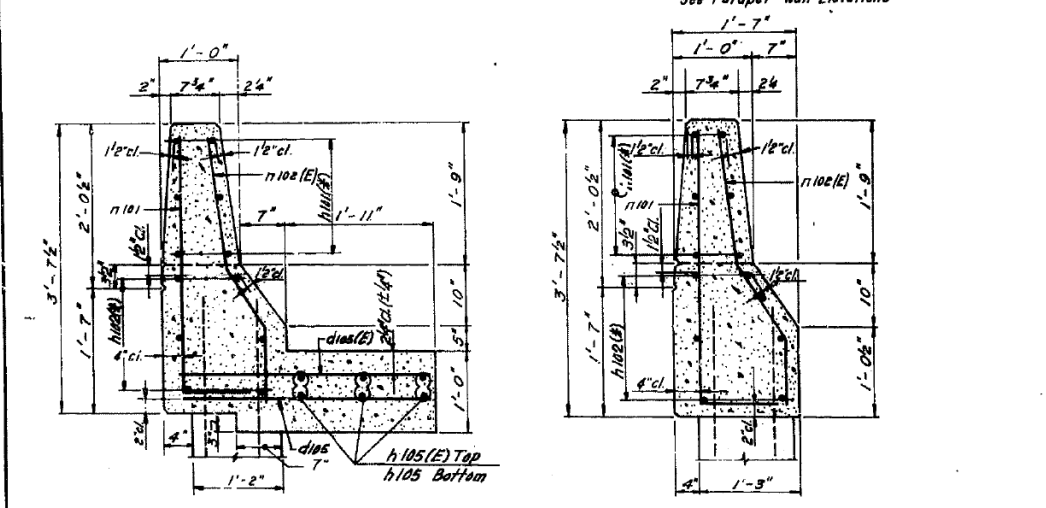
LOCATION	BAR NO.	EA	TOTAL	SIZE	LENGTH	SHAPE
Bents 15, E4, E5	X101(E)	40	144	#5	2'-8"	U
	a110	10	40	#5	16'-0"	U
	a110(E)	12	36	#5	16'-0"	U
	a111	40	144	#5	2'-7"	U
	a112(E)	8	24	#5	1'-9"	U
	a112	24	72	#5	1'-9"	U
Bent 14	X101(E)	24	24	#5	2'-8"	U
	a110	8	8	#5	16'-0"	U
	a110(E)	6	6	#5	16'-0"	U
	a111	24	24	#5	2'-7"	U
	a112(E)	4	4	#5	1'-9"	U
	a112	12	12	#5	1'-9"	U
Abut. 16	X101(E)	24	24	#5	2'-8"	U
	a110	16	16	#5	16'-0"	U
	a110(E)	10	10	#5	16'-0"	U
	a111	34	34	#5	2'-7"	U
	a112(E)	4	4	#5	1'-9"	U
	a112	24	24	#5	1'-9"	U
	S101	27	27	#4	3'-0"	U
	S101(E)	27	27	#4	3'-0"	U
Bent E6-E7	a113	5	5	#5	2'-4"	U
	a113(E)	5	5	#5	2'-4"	U
	a112(E)	2	2	#5	1'-9"	U
	a114	6	6	#5	1'-9"	U
	a114	2	2	#5	4'-8"	U
	a114(E)	2	2	#5	3'-2"	U
	a114(E)	2	2	#5	2'-11"	U
	a115	2	2	#5	3'-9"	U
	a116	2	2	#5	2'-9"	U
	a117	2	2	#5	2'-2"	U
	a117(E)	2	2	#5	2'-2"	U
Bent E2-E3	a114	4	4	#5	4'-8"	U
	a114(E)	4	4	#5	5'-2"	U
	a115(E)	4	4	#5	2'-11"	U
	a116(E)	5	5	#5	3'-9"	U
	a116	5	5	#5	2'-9"	U
	a117(E)	4	4	#5	2'-2"	U
	a117	4	4	#5	2'-2"	U
	a118(E)	4	4	#5	0'-11"	U

Reinforcement Bars	Lb.	2,050
Reinf. Bars (Epoxy Coated)	Lb.	4,590
Structural Steel	Lb.	2,860
Neoprene Expansion Joint, 2"	Lin. Ft.	188
Neoprene Expansion Joint, 2 1/2"	Lin. Ft.	34
Preformed Joint Scales, 2 1/2"	Lin. Ft.	87
Deck Joint (Full Depth) Removal & Replacement (Special)	Sq. Yd.	45

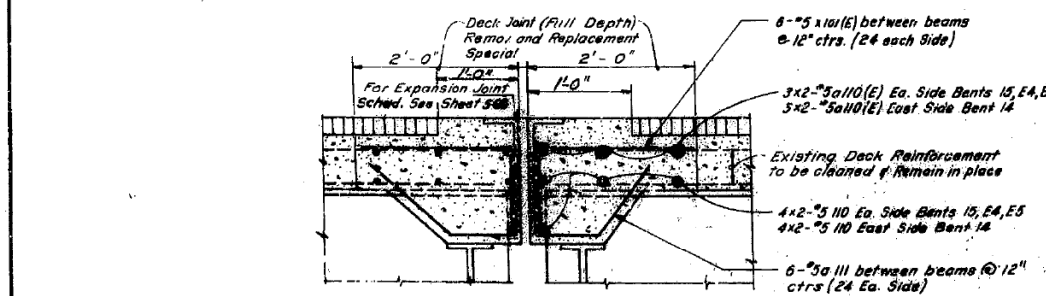
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
SECTIONS
SOUTH - EAST RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1471-1472-R
CHICAGO, ILLINOIS
Rev. 7-9-73



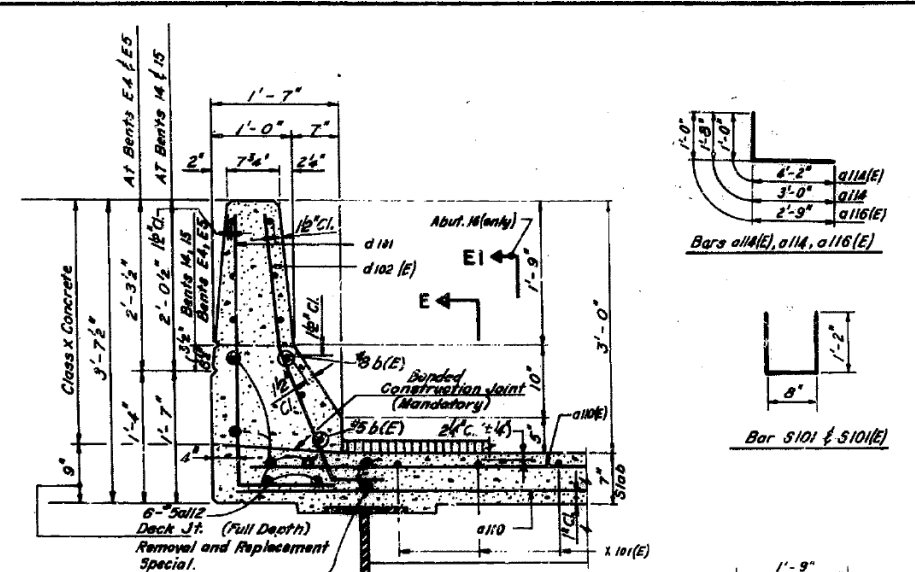
SECTION A-A
SECTION AI-AI
For Horizontal Reinforcement in Parapet Wall in Sections A-A, AI-AI, B-B, C-C, D-D, F-F See Parapet Wall Elevations



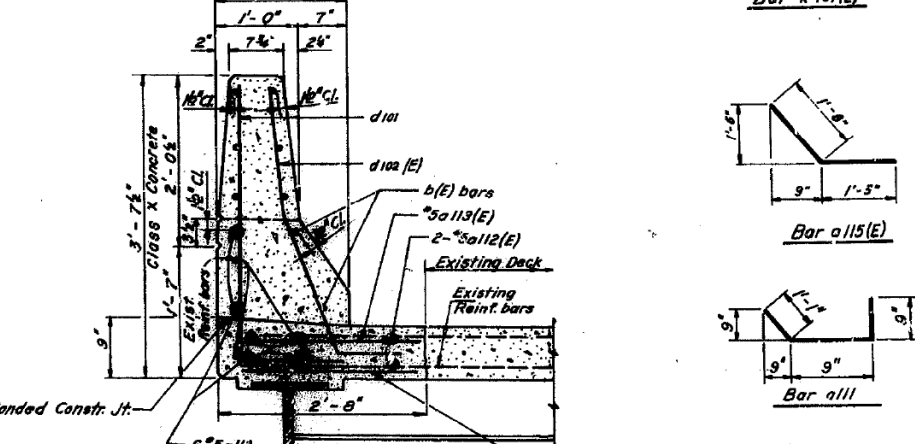
SECTION C-C
SECTION D-D



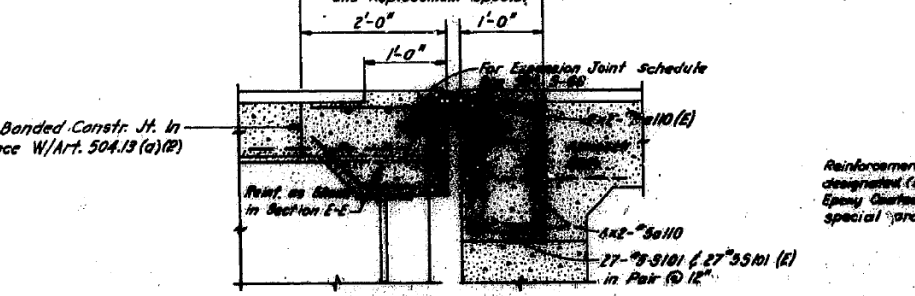
SECTION E-E
TYPICAL AT BENTS 15, E4, E5 AND EAST SIDE OF BENT 14



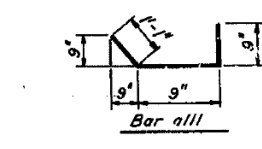
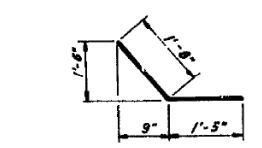
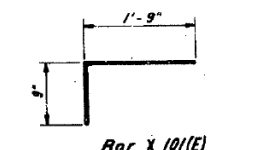
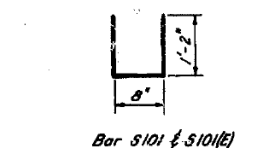
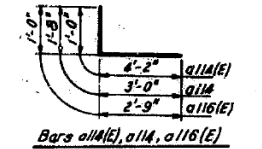
SECTION B-B
TYPICAL AT BENTS 14, 15, E4, E5



SECTION F-F
AT BENT E6



SECTION EI-EI
ABUTMENT 16



DESIGNED BY	ahmad,issa	DESIGNED -	REVISD -
DRAWN BY		CHECKED -	REVISD -
CHECKED BY		DRAWN -	REVISD -
		CHECKED -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1842
CONTRACT NO. 60X93				

FILE NAME: D:\1617479-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Plans\33906-60X93-SXX-Existing354

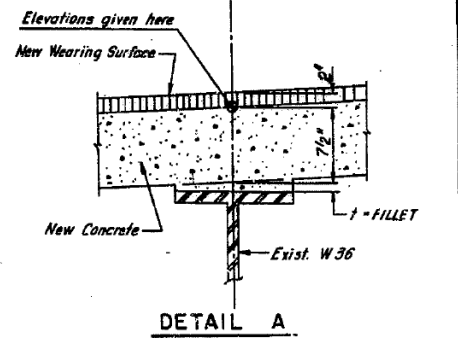
HBM
ENGINEERING GROUP, LLC

USER NAME	ahmad,issa	DESIGNED -	REVISD -
PLOT SCALE	N.T.S	CHECKED -	REVISD -
PLOT DATE	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -

FOR INFORMATION ONLY

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFLECTION
GIRDER 1					GIRDER 2					GIRDER 3									
← E BRG BENT 14	2541.166	13.137	21.647	21.647	← E BRG BENT 14	2541.179	9.000	21.481	21.481	← E BRG BENT 14	2541.186	7.074	21.404	21.404	← E BRG BENT 14	2541.206	1.011	21.161	21.161
A	2550.531	11.896	21.410	21.432	A	2550.768	9.000	21.289	21.312	A	2550.814	5.840	21.162	21.185	A	2551.113	-0.215	20.914	20.936
B	2559.983	11.100	21.189	21.229	B	2560.357	9.000	21.097	21.130	B	2560.532	5.064	20.936	20.977	B	2561.114	-0.970	20.683	20.719
C	2569.483	10.795	21.035	21.084	C	2569.946	9.000	20.906	20.956	C	2570.306	4.751	20.729	20.779	C	2571.164	-1.248	20.471	20.517
D	2578.994	10.862	20.799	20.844	D	2579.535	9.000	20.714	20.758	D	2580.075	4.504	20.559	20.583	D	2581.218	-1.047	20.278	20.316
E	2588.478	11.422	20.632	20.666	E	2589.124	9.000	20.522	20.554	E	2589.815	4.321	20.369	20.400	E	2591.230	-0.369	20.105	20.129
F	2597.891	12.430	20.484	20.496	F	2598.713	9.000	20.330	20.340	F	2599.479	6.599	20.219	20.227	F	2601.154	0.780	19.953	19.956
← W BRG BENT 13					← W BRG BENT 13					← W BRG BENT 13									
← E BRG	2604.207	13.228	20.388	20.388	← E BRG	2604.209	9.000	20.219	20.219	← E BRG	2604.210	7.187	20.147	20.147	← E BRG	2604.213	1.125	19.905	19.905
G	2614.207	12.951	20.151	20.161	G	2614.209	9.000	20.001	20.011	G	2614.210	7.187	19.933	19.942	G	2614.213	1.125	19.703	19.712
H	2624.207	12.675	19.915	19.930	H	2624.209	9.000	19.763	19.798	H	2624.210	7.187	19.718	19.733	H	2624.213	1.125	19.501	19.515
J	2634.207	12.399	19.681	19.693	J	2634.209	9.000	19.566	19.577	J	2634.210	7.187	19.504	19.516	J	2634.213	1.125	19.298	19.310
K	2644.207	12.123	19.447	19.451	K	2644.209	9.000	19.348	19.351	K	2644.210	7.187	19.290	19.293	K	2644.213	1.125	19.096	19.100
← W BRG BENT 12					← W BRG BENT 12					← W BRG BENT 12									
← E BRG	2649.464	12.000	19.326	19.326	← E BRG	2649.464	9.000	19.266	19.266	← E BRG	2649.464	6.333	19.209	19.209	← E BRG	2649.464	0.666	18.976	18.976
L	2659.464	12.000	19.102	19.133	L	2659.464	9.000	19.013	19.051	L	2659.464	6.333	18.938	18.974	L	2659.464	0.666	18.774	18.810
M	2669.464	12.000	18.878	18.939	M	2669.464	9.000	18.797	18.869	M	2669.464	6.333	18.726	18.797	M	2669.464	0.666	18.573	18.645
N	2679.464	12.000	18.654	18.738	N	2679.464	9.000	18.599	18.667	N	2679.464	6.333	18.530	18.618	N	2679.464	0.666	18.385	18.473
O	2689.464	12.000	18.430	18.524	O	2689.464	9.000	18.429	18.491	O	2689.464	6.333	18.364	18.437	O	2689.464	0.666	18.225	18.320
P	2699.464	12.000	18.206	18.309	P	2699.464	9.000	18.287	18.361	P	2699.464	6.333	18.225	18.315	P	2699.464	0.666	18.094	18.184
Q	2709.464	12.000	17.982	18.077	Q	2709.464	9.000	18.174	18.261	Q	2709.464	6.333	18.115	18.200	Q	2709.464	0.666	17.971	18.066
R	2719.464	12.000	17.758	17.855	R	2719.464	9.000	18.059	18.139	R	2719.464	6.333	18.036	18.075	R	2719.464	0.666	17.917	17.958
S	2729.464	12.000	17.534	17.627	S	2729.464	9.000	18.027	18.092	S	2729.464	6.333	17.977	17.992	S	2729.464	0.666	17.870	17.875
← W BRG BENT 11					← W BRG BENT 11					← W BRG BENT 11									
← E BRG	2732.464	12.000	18.066	18.066	← E BRG	2732.464	9.000	18.019	18.019	← E BRG	2732.464	6.333	17.970	17.970	← E BRG	2732.464	1.333	17.865	17.865
T	2742.464	12.000	18.025	18.025	T	2742.464	9.000	18.012	18.012	T	2742.464	6.666	17.970	17.970	T	2742.464	1.333	17.873	17.873
U	2752.464	12.000	18.013	18.013	U	2752.464	9.000	17.979	17.979	U	2752.464	6.666	17.943	17.943	U	2752.464	1.333	17.862	17.862
← W BRG BENT 10					← W BRG BENT 10					← W BRG BENT 10									
← E BRG	2757.714	12.000	18.018	18.018	← E BRG	2757.714	9.000	17.985	17.985	← E BRG	2757.714	6.666	17.958	17.958	← E BRG	2757.714	1.333	17.898	17.898
V	2769.214	12.000	18.021	18.021	V	2769.214	9.000	17.989	17.989	V	2769.214	7.000	17.967	17.967	V	2769.214	2.000	17.913	17.913
W	2779.214	12.000	18.007	18.007	W	2779.214	9.000	18.032	18.032	W	2779.214	7.000	18.016	18.049	W	2779.214	2.000	17.875	17.875
X	2789.214	12.000	18.004	18.004	X	2789.214	9.000	18.004	18.004	X	2789.214	7.000	18.003	18.036	X	2789.214	2.000	17.833	17.833
Y	2799.214	12.000	18.001	18.001	Y	2799.214	9.000	18.001	18.001	Y	2799.214	7.000	18.001	18.034	Y	2799.214	2.000	18.001	18.001
Z	2809.214	12.000	18.001	18.001	Z	2809.214	9.000	18.001	18.001	Z	2809.214	7.000	18.001	18.034	Z	2809.214	2.000	18.001	18.001
AA	2819.214	12.000	18.001	18.001	AA	2819.214	9.000	18.001	18.001	AA	2819.214	7.000	18.001	18.034	AA	2819.214	2.000	18.001	18.001
AB	2829.214	12.000	18.001	18.001	AB	2829.214	9.000	18.001	18.001	AB	2829.214	7.000	18.001	18.034	AB	2829.214	2.000	18.001	18.001
← W BRG BENT 9					← W BRG BENT 9					← W BRG BENT 9									
← E BRG	2834.714	12.000	18.993	18.993	← E BRG	2834.714	9.000	19.021	19.021	← E BRG	2834.714	7.000	19.039	19.039	← E BRG	2834.714	2.000	19.086	19.086
AC	2846.214	11.989	19.029	19.029	AC	2846.214	9.000	19.058	19.058	AC	2846.214	6.130	19.076	19.076	AC	2846.214	2.270	19.123	19.123
AD	2856.214	11.833	19.285	19.291	AD	2856.214	9.000	19.320	19.320	AD	2856.214	6.979	19.349	19.380	AD	2856.214	2.120	19.405	19.410
AE	2866.214	11.688	19.571	19.581	AE	2866.214	9.000	19.611	19.621	AE	2866.214	6.829	19.644	19.654	AE	2866.214	1.819	20.037	20.053
AF	2876.214	11.538	19.865	19.890	AF	2876.214	9.000	19.930	19.935	AF	2876.214	6.678	19.971	19.976	AF	2876.214	1.668	20.425	20.426
← W BRG BENT E1					← W BRG BENT E1					← W BRG BENT E1									
← E BRG	2874.911	11.404	20.202	20.202	← E BRG	2874.911	9.000	20.266	20.266	← E BRG	2874.911	6.528	20.332	20.332	← E BRG	2874.911	1.653	20.462	20.462

ROUTE NO.	SECTION	COUNTY
F.A.I. RT. 94	197 - 117 - R	COOK
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT 1 - 60X93	

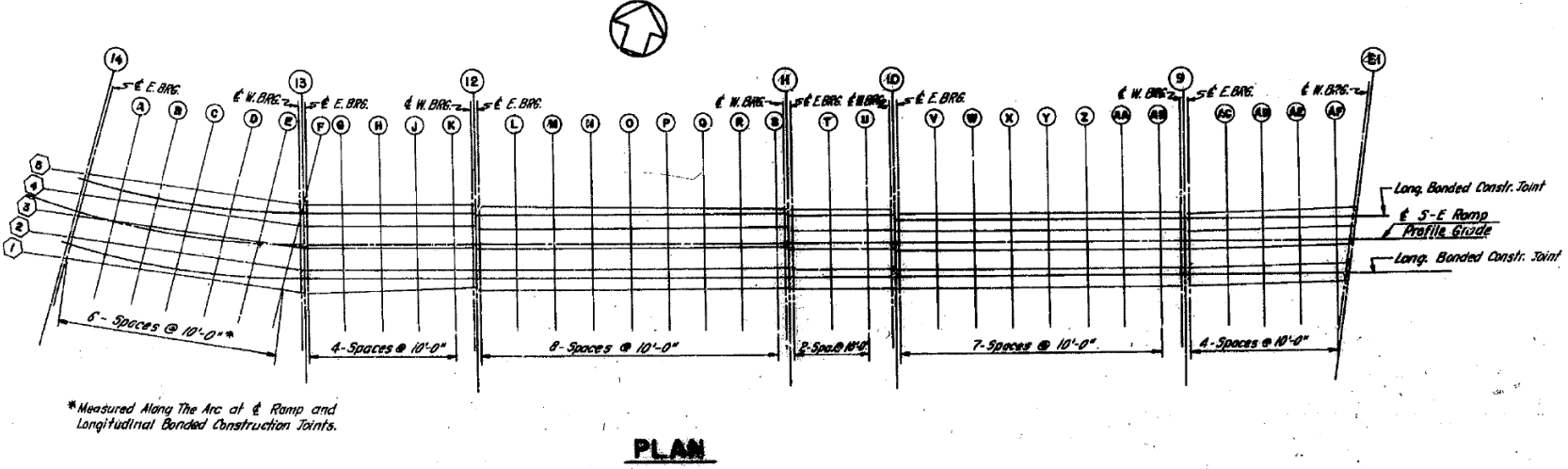


FILLET HEIGHTS

To determine "c" as shown in DETAIL A: After all existing concrete superstructure has been demolished and removed from each span, elevations of the top flanges of the beams shall be taken at intervals shown in Plan. These elevations subtracted from the "Theoretical Grade Elevations Adjusted" for Dead Load Deflection" shown in tables minus slab thickness, equals the fillet heights "c" above the top flange of beams.

STATIONING NOTE:
Stationing in the Tables is based on the arc definition for curves adjusted for each span of the leading E Bent to closely correspond to the original chord definition stations.

NOTE: All elevations in the tables are given at the top of the concrete deck as shown in DETAIL A.



*Measured Along The Arc of E Ramp and Longitudinal Bonded Construction Joints.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CHICAGO INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
ILLINOIS
PROJECT 1 - 60X93
F.A.I. RT. 94 197 - 117 - R**

DESIGNED BY: _____
CHECKED BY: _____
DRAWN BY: _____
DATE: _____

FILE NAME: D:\V161749-PWINT-accomline.local\AECOM_DS02_NAY\Documents\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing355



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

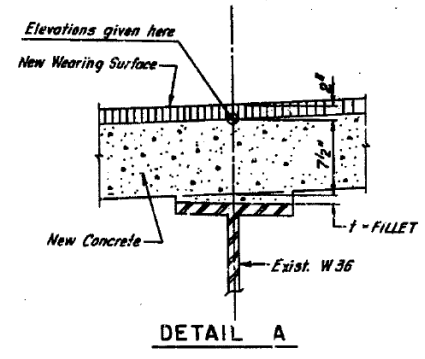
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1843
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

S-E RAMP (PROFILE GRADE)					GIRDER 4					LONGITUDINAL BONDED CONSTRUCTION JOINT					GIRDER 3									
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFLECTION	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFLECTION
E BRG BENT 14	2541.210	0.000	21.120	21.120	E BRG BENT 14	2541.229	-5.051	20.918	20.918	E BRG BENT 14	2541.244	-9.000	20.760	20.760	E BRG BENT 14	2541.252	-11.114	20.675	20.675	A	2551.746	-12.324	20.416	20.458
A	2551.210	0.000	20.920	20.941	A	2551.430	-6.270	20.665	20.686	A	2551.692	-9.000	20.551	20.572	A	2551.746	-12.324	20.416	20.458	B	2562.589	-13.033	20.175	20.211
B	2561.210	0.000	20.720	20.756	B	2561.730	-7.003	20.430	20.465	B	2562.139	-9.000	20.342	20.377	B	2562.589	-13.033	20.175	20.211	C	2573.050	-13.237	19.994	19.999
C	2581.210	0.000	20.520	20.566	C	2572.079	-7.244	20.213	20.255	C	2572.587	-9.000	20.153	20.174	C	2573.050	-13.237	19.994	19.999	D	2583.710	-11.932	19.753	19.787
D	2581.210	0.000	20.320	20.358	D	2582.428	-6.993	20.016	20.051	D	2583.038	-9.000	19.924	19.958	D	2583.710	-11.932	19.753	19.787	E	2594.361	-12.121	19.573	19.591
E	2591.210	0.000	20.120	20.144	E	2592.726	-6.251	19.840	19.860	E	2593.495	-9.000	19.715	19.734	E	2594.361	-12.121	19.573	19.591	F	2602.747	0.000	19.890	19.890
F	2601.210	0.000	19.920	19.923	F	2602.728	-5.051	19.688	19.688	F	2602.715	-9.000	19.530	19.530	F	2602.705	-11.114	19.446	19.446					
W BRG BENT 13	2602.747	0.000	19.890	19.890	W BRG BENT 13	2602.728	-5.051	19.688	19.688	W BRG BENT 13	2602.715	-9.000	19.530	19.530	W BRG BENT 13	2602.705	-11.114	19.446	19.446					
E BRG	2604.214	0.000	19.860	19.860	E BRG	2604.216	-4.937	19.663	19.663	E BRG	2604.218	-9.000	19.501	19.501	E BRG	2604.219	-11.000	19.421	19.421					
G	2614.214	0.000	19.660	19.670	G	2614.216	-4.937	19.473	19.483	G	2614.218	-9.000	19.219	19.229	G	2614.219	-11.000	19.243	19.253					
H	2624.214	0.000	19.460	19.470	H	2624.216	-4.937	19.283	19.293	H	2624.218	-9.000	19.137	19.152	H	2624.219	-11.000	19.065	19.080					
J	2634.214	0.000	19.260	19.272	J	2634.216	-4.937	19.093	19.104	J	2634.218	-9.000	18.955	18.972	J	2634.219	-11.000	18.887	18.899					
K	2644.214	0.000	19.060	19.064	K	2644.216	-4.937	18.903	18.905	K	2644.218	-9.000	18.773	18.776	K	2644.219	-11.000	18.709	18.712					
W BRG BENT 12	2647.964	0.000	18.985	18.985	W BRG BENT 12	2647.964	-4.937	18.831	18.831	W BRG BENT 12	2647.964	-9.000	18.705	18.705	W BRG BENT 12	2647.964	-11.000	18.642	18.642					
E BRG	2649.464	0.000	18.955	18.955	E BRG	2649.464	-5.000	18.801	18.801	E BRG	2649.464	-8.000	18.708	18.706	E BRG	2649.464	-10.989	18.616	18.616					
L	2659.464	0.000	18.755	18.791	L	2659.464	-5.000	18.611	18.647	L	2659.464	-8.000	18.524	18.560	L	2659.464	-10.988	18.443	18.474					
M	2669.464	0.000	18.555	18.527	M	2669.464	-5.000	18.421	18.492	M	2669.464	-8.000	18.340	18.412	M	2669.464	-10.987	18.270	18.331					
N	2679.464	0.000	18.358	18.356	N	2679.464	-5.000	18.240	18.327	N	2679.464	-8.000	18.263	18.251	N	2679.464	-10.987	18.210	18.216					
O	2689.464	0.000	18.209	18.312	O	2689.464	-5.000	18.087	18.190	O	2689.464	-8.000	18.014	18.117	O	2689.464	-10.986	17.960	18.047					
P	2699.464	0.000	18.079	18.169	P	2699.464	-5.000	17.963	18.053	P	2699.464	-8.000	17.893	17.983	P	2699.464	-10.985	17.848	17.929					
Q	2709.464	0.000	17.974	18.051	Q	2709.464	-5.000	17.867	17.941	Q	2709.464	-8.000	17.801	17.876	Q	2709.464	-10.984	17.761	17.825					
R	2719.464	0.000	17.903	17.944	R	2719.464	-5.000	17.799	17.861	R	2719.464	-8.000	17.737	17.778	R	2719.464	-10.983	17.703	17.758					
S	2729.464	0.000	17.858	17.863	S	2729.464	-5.000	17.763	17.769	S	2729.464	-8.000	17.707	17.712	S	2729.464	-10.982	17.680	17.684					
W BRG BENT 11	2730.964	0.000	17.853	17.853	W BRG BENT 11	2730.964	-5.000	17.761	17.761	W BRG BENT 11	2730.964	-8.000	17.706	17.706	W BRG BENT 11	2730.964	-9.432	17.680	17.680					
E BRG	2732.464	0.000	17.849	17.849	E BRG	2732.464	-3.999	17.777	17.777	E BRG	2732.464	-7.500	17.714	17.714	E BRG	2732.464	-9.406	17.680	17.680					
T	2742.464	0.000	17.841	17.841	T	2742.464	-3.999	17.780	17.780	T	2742.464	-7.500	17.726	17.726	T	2742.464	-9.214	17.700	17.700					
U	2752.464	0.000	17.861	17.861	U	2752.464	-3.999	17.810	17.810	U	2752.464	-7.500	17.766	17.766	U	2752.464	-9.021	17.747	17.747					
W BRG BENT 10	2757.714	0.000	17.883	17.883	W BRG BENT 10	2757.714	-3.999	17.858	17.858	W BRG BENT 10	2757.714	-7.500	17.799	17.799	W BRG BENT 10	2757.714	-8.921	17.783	17.783					
E BRG	2759.214	0.000	17.891	17.891	E BRG	2759.214	-3.000	17.858	17.858	E BRG	2759.214	-6.000	17.824	17.824	E BRG	2759.214	-8.895	17.794	17.794					
V	2769.214	0.000	17.958	17.992	V	2769.214	-3.000	17.934	17.967	V	2769.214	-4.000	17.909	17.942	V	2769.214	-8.704	17.887	17.917					
W	2779.214	0.000	18.055	18.117	W	2779.214	-3.000	18.038	18.100	W	2779.214	-4.000	18.021	18.086	W	2779.214	-8.515	18.007	18.066					
X	2789.214	0.000	18.179	18.238	X	2789.214	-3.000	18.170	18.230	X	2789.214	-4.000	18.162	18.225	X	2789.214	-8.322	18.159	18.225					
Y	2799.214	0.000	18.332	18.392	Y	2799.214	-3.000	18.331	18.391	Y	2799.214	-4.000	18.331	18.391	Y	2799.214	-8.132	18.330	18.406					
Z	2809.214	0.000	18.513	18.584	Z	2809.214	-3.000	18.521	18.591	Z	2809.214	-4.000	18.520	18.601	Z	2809.214	-7.941	18.593	18.597					
AA	2819.214	0.000	18.723	18.787	AA	2819.214	-3.000	18.738	18.802	AA	2819.214	-4.000	18.734	18.805	AA	2819.214	-7.750	18.763	18.810					
AB	2829.214	0.000	18.961	18.984	AB	2829.214	-3.000	18.984	19.007	AB	2829.214	-4.000	19.009	19.026	AB	2829.214	-7.559	19.029	19.037					
W BRG BENT 9	2834.714	0.000	19.104	19.104	W BRG BENT 9	2834.714	-3.000	19.132	19.132	W BRG BENT 9	2834.714	-4.000	19.160	19.160	W BRG BENT 9	2834.714	-7.453	19.173	19.173					
E BRG	2836.214	0.000	19.143	19.143	E BRG	2836.214	-2.588	19.170	19.170	E BRG	2836.214	-5.999	19.203	19.203	E BRG	2836.214	-7.447	19.217	19.217					
AC	2846.214	0.000	19.431	19.456	AC	2846.214	-2.739	19.403	19.470	AC	2846.214	-5.999	19.505	19.510	AC	2846.214	-7.508	19.520	19.584					
AD	2856.214	0.000	19.740	19.756	AD	2856.214	-2.889	19.789	19.799	AD	2856.214	-5.999	19.836	19.846	AD	2856.214	-7.748	19.862	19.877					
AE	2866.214	0.000	20.089	20.093	AE	2866.214	-3.040	20.143	20.149	AE	2866.214	-5.999	20.195	20.201	AE	2866.214	-7.899	20.229	20.240					
AF	2876.214	0.000	20.455	20.456	AF	2876.214	-3.190	20.513	20.514	AF	2876.214	-5.999	20.565	20.565	AF	2876.214	-8.090	20.600	20.605					
W BRG BENT E1	2877.579	0.000	20.506	20.506	W BRG BENT E1	2878.532	-3.221	20.591	20.591	W BRG BENT E1	2879.982	-5.999	20.665	20.665	W BRG BENT E1	2879.472	-8.097	20.721	20.721					

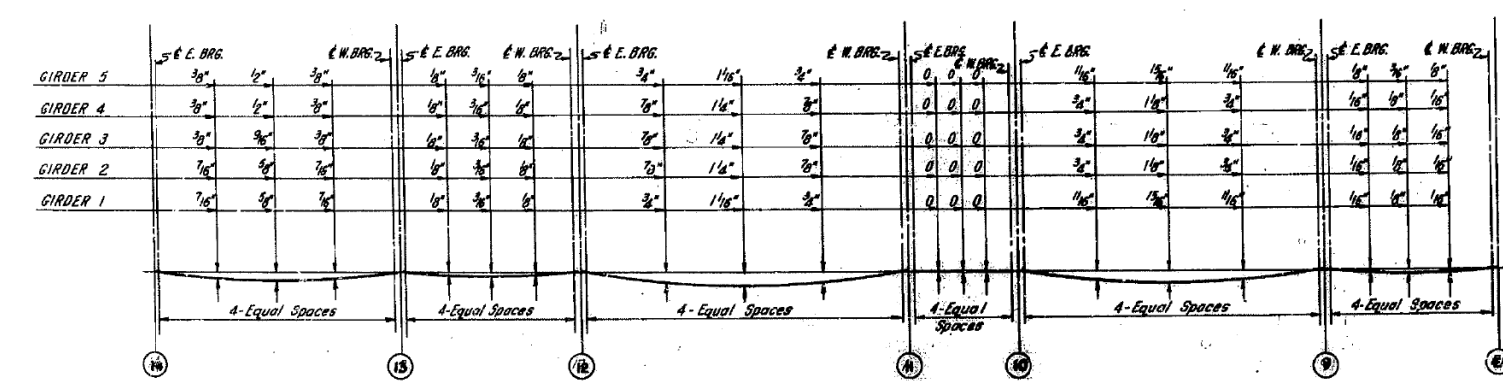


FILLET HEIGHTS

To determine "t" as shown in DETAIL A: After all existing concrete superstructure has been demolished and removed from each span, elevations of the top flanges of the beam shall be taken at intervals shown in Plan. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown in tables minus slab thickness, equals the fillet heights "t" above the top flange of beams.

STATIONING NOTE:
Stationing in the Tables is based on the arc definition for curves adjusted for each span at the leading E Bent to closely correspond to the original chord definition stations.

NOTE: All elevations in the tables are given at the top of the concrete deck as shown in DETAIL A.



DEAD LOAD DEFLECTION CURVE
(Includes weight of permanent loads)

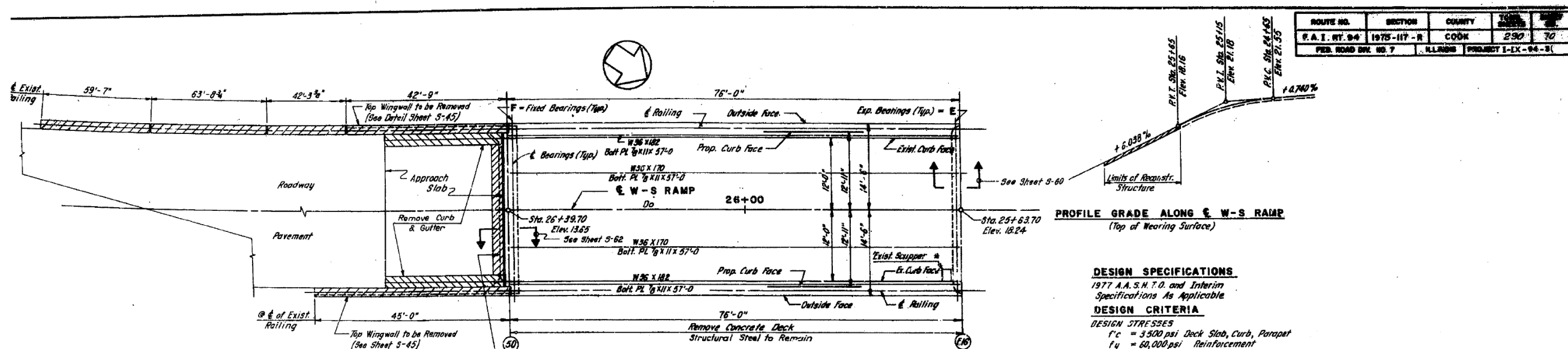
NOTE: The above deflections are not to be used in the field if the engineer is working from the cross-sections adjusted for dead load deflections as shown above.

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
ELEVATIONS
SOUTH-EAST RAMP**

F.A.I. RT. 94 SECTION 2014-013R&B-R COUNTY COOK TOTAL SHEETS 1972 SHEET NO. 1844
FED. ROAD DIST. NO. 7 ALIENS PROJECT 1-IX-94-21 CONTRACT NO. 60X93

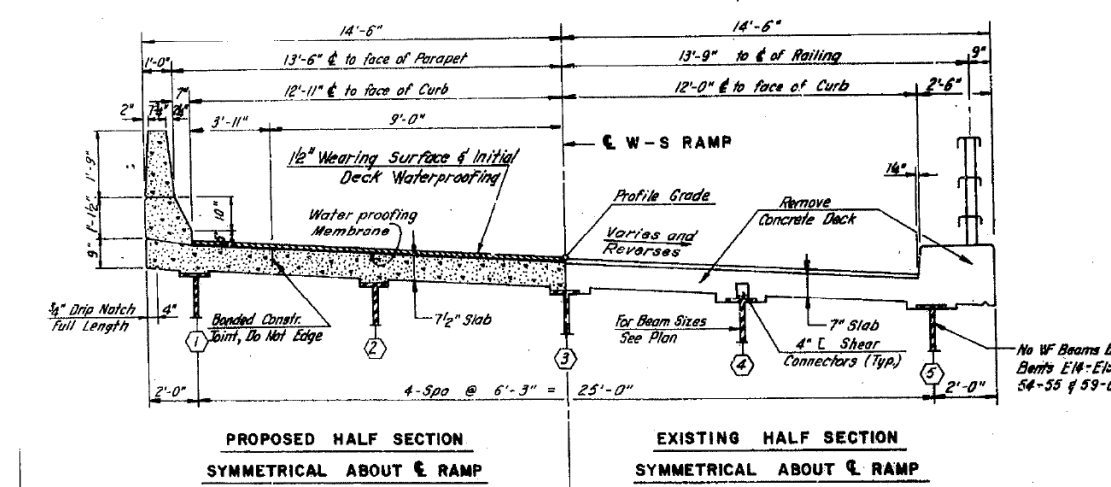
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DESIGN SPECIFICATIONS
 1977 A.A.S.H.T.O. and Interim Specifications As Applicable
DESIGN CRITERIA
 DESIGN STRESSES
 $f'c = 3,500$ psi Deck Slab, Curb, Parapet
 $f_y = 60,000$ psi Reinforcement
DESIGN METHOD
 Load Factor Design
LOADING
 H 3 20-44 (New Construction)
 25 #/ft² Future Wearing Surface
 Use Composite Construction.
 Permanent Forms Will Not Be Permitted in Forming Concrete Deck.

PLAN

ABUTMENT (50) TO BENT (E6)



TYPICAL DECK CROSS SECTION

LOOKING NORTH
 BETWEEN BENTS (50) - (E6)

WORK TO BE PERFORMED	
ABUTMENT 50 TO BENT E16	BENT E16 TO BENT E9
1 - REMOVE EXISTING DECK SLAB AND CURB AND GUTTER AS SHOWN ON PLAN AND IN CROSS SECTION.	1 - REMOVE EXISTING OVERLAY
2 - JACK DECK AND REPLACE ALL EXIST. GRAPHITED EXPANSION BEARING WITH ELASTOMERIC TYPE I BEARINGS, CLEAN AND PAINT FIXED BEARINGS	2 - REMOVE HANDRAIL AND PART OF EXISTING CURB AS SHOWN ON THE CROSS-SECTIONS
3 - RECONSTRUCT DECK SLAB USING EPOXY COATED TOP REINFORCEMENT, WATERPROOF AND RESURFACE WITH 1/2" BITUMINOUS SURFACE COURSE	3 - REMOVE ALL LOOSE AND DETERIORATED CONCRETE FROM DECK AT LOCATIONS MARKED BY THE ENGINEER
4 - MODIFY TOP OF WING WALLS	4 - JACK DECK AND REPLACE ALL EXISTING GRAPHITED EXPANSION BEARINGS WITH ELASTOMERIC TYPE I BEARINGS, CLEAN AND PAINT FIXED BEARINGS
5 - REPAIR SUBSTRUCTURES AS REQUIRED	5 - CONSTRUCT CONCRETE PARAPET AND ERECT STEEL BRACKETS FOR NEW SIGN SUPPORTS.
	6 - REPAIR DECK SLAB WITH CONCRETE
	7 - RECONSTRUCT DECK EXPANSION JOINTS
	8 - WATERPROOF AND RESURFACE DECK WITH 1/2" BIT SURF COURSE
	9 - MODIFY TOP OF WING WALLS
	10 - REPAIR SUBSTRUCTURES AS REQUIRED

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPERSTR.	SUBSTR.	TOTAL
Bridge Deck Overlay Removal	Sq. Yd.	3,314		3,314
Deck Slab Repair (Partial)	Sq. Yd.	402		402
Deck Slab Repair (Full Depth)	Sq. Yd.	29		29
Protective Coat	Sq. Yd.	1,205		1,205
Waterproofing Membrane System	Sq. Yd.	3,718		3,718
Bit. Concrete Surface Course	Ton	323		323
Class X Concrete	Cu. Yd.	362.8	2.8	365.6
Reinforcement Bars	Lb.	26,900	345	27,245
Reinforcement Bars (Epoxy Coated)	Lb.	43,880		43,880
Concrete Removal	Cu. Yd.	185.8	2.8	188.6
Neoprene Expansion Joint 2"	Lin. Ft.	460		460
Pr. Formed Joint Sealer 2 1/2"	Lin. Ft.	267		267
Furnish and Install Erect. Bearings Type I	Ea.		102	102
Jack. Erecting Stringer	Ea.		102	102
Rem. Concrete Structures	Sq. Ft.		1,685	1,685
Pr. Formed Joint Sealer, 4"	Lin. Ft.	30		30
Deck Joint (Full Depth) Removal & Replacement (Spec)	Sq. Yd.	195		195
Structural Steel	Lb.	15,060		15,060
Removal of Existing Superstructure No. 4	Ea.	1		1
Deck Joint (Partial Depth) Removal & Replacement (Spec)	Sq. Yd.	4		4
Epoxy Mortar Repair	Cu. Ft.		88.5	88.5
Jacking & Cribbing	Each		4	4
Expansion Bolts 3/4" x 10"	Each		12	12
Expansion Bolts 1/2" x 15"	Each		4	4

GENERAL NOTES W-S RAMP

CALCULATED WEIGHT OF STRUCTURAL STEEL = 15,060

ALL NEW STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH TWO COATS OF BASIC LEAD SILICO CHROMATE PAINT.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYSTEM IS APPLIED.

SPECIAL CARE SHALL BE TAKEN IN COMPACTING BITUMINOUS CONCRETE SURFACE ALONG EXPANSION JOINTS TO ACHIEVE PROPER DENSITY AND TO FORM 1/4" LIP. SMALLER ROLLERS AND STEEL FLATES SHALL BE USED FOR THIS PURPOSE AS DIRECTED BY THE ENGINEER.

ALL REINFORCEMENT BARS SHALL CONFORM TO A.A.S.H.T.O. M-31 GRADE 60 OR M-53 GRADE 60.

DESIGN SPECIFICATIONS
 1977 A.A.S.H.T.O. and Interim Specifications As Applicable
DESIGN STRESSES (NEW CONSTR.)
 $f'c = 3,500$ p.s.i., Deck Slab, Curb, Parapet
 $f_y = 60,000$ p.s.i., Reinforcement

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
GENERAL PLAN
 WEST - SOUTH RAMP
 F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
 CONTRACT NO. 60X93

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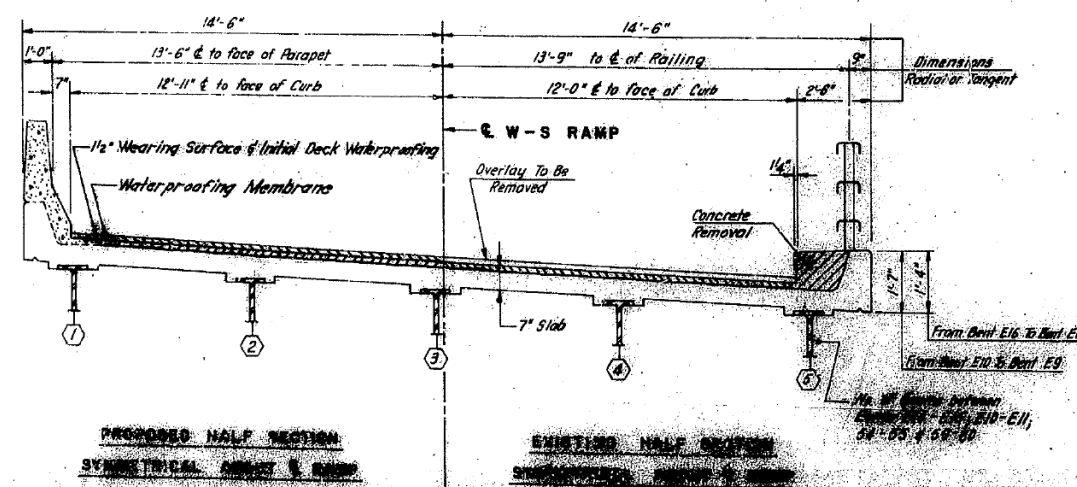
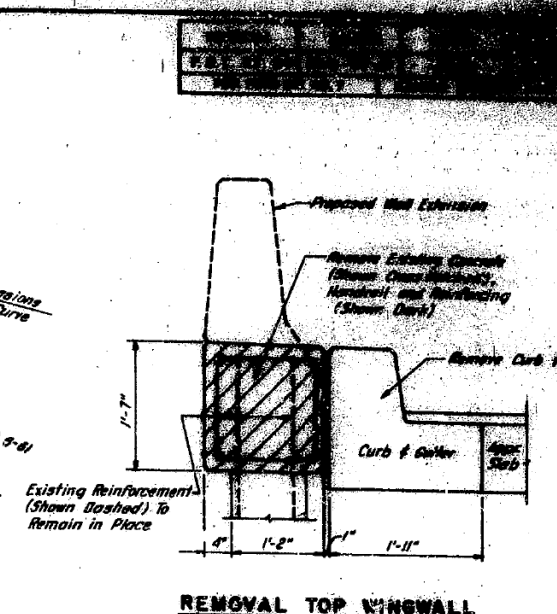
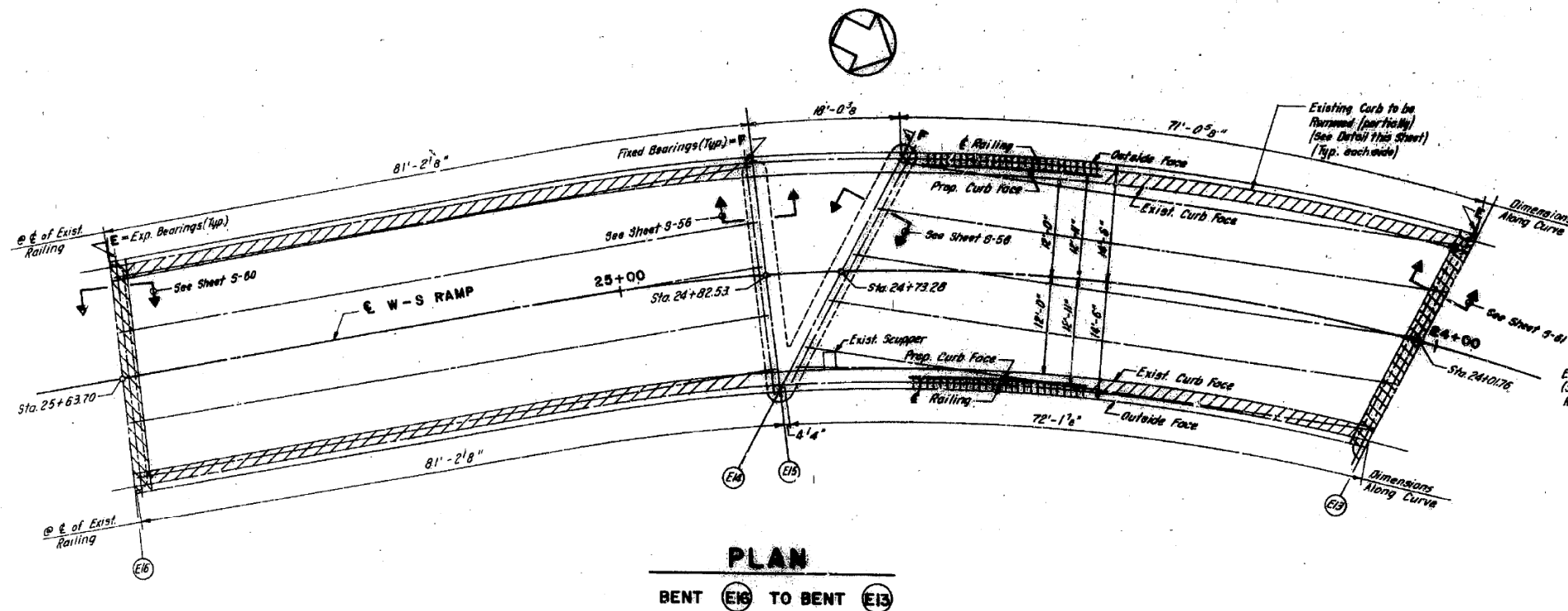
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

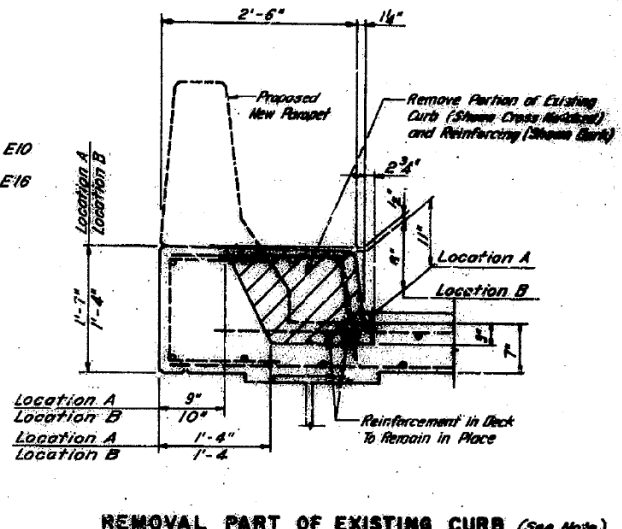
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1845
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



Note
 Location A is from Bent E10 to Bent E9.
 Location B is from Bent E16 to Bent E10.



NOTES:
 For Types of Expansion Joint - See Sheet 3-68

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 SINGLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 GENERAL PLAN
 W07 - POPE ROAD
 SHEET NO. 1846

FILE NAME: D:\V161749-PWINT-accomline.local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing358



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PLOT DATE =	7/26/2018	DRAWN -	REVISD -
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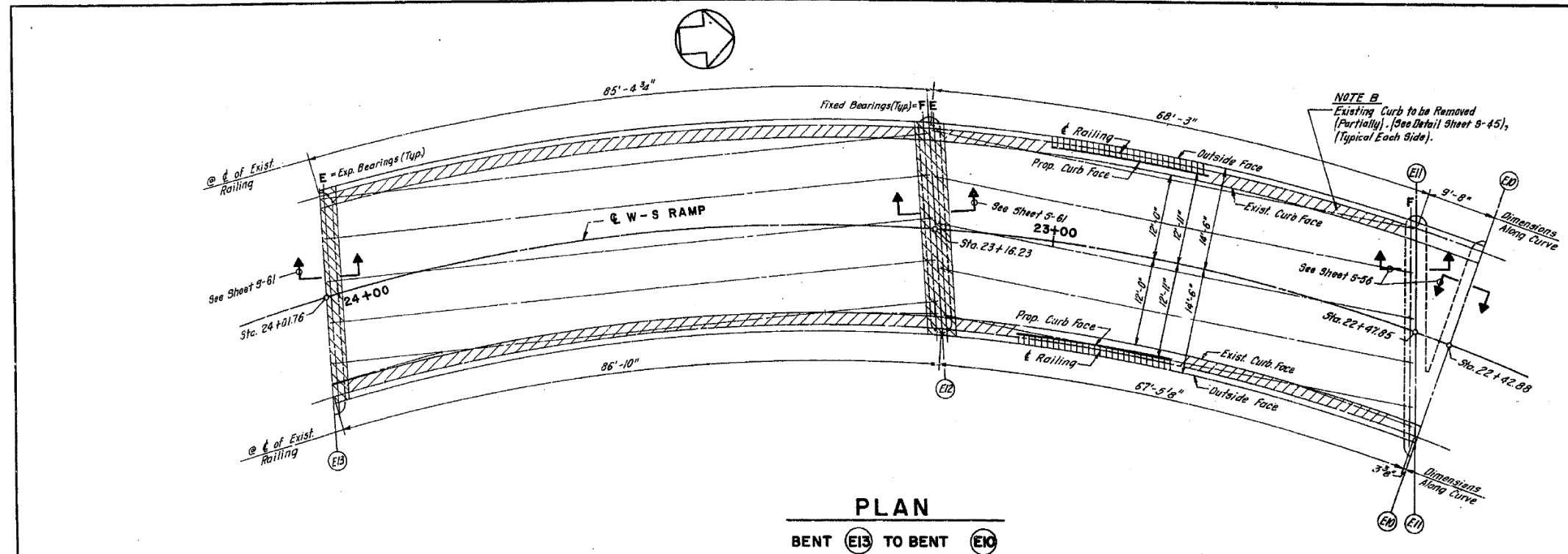
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1846
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

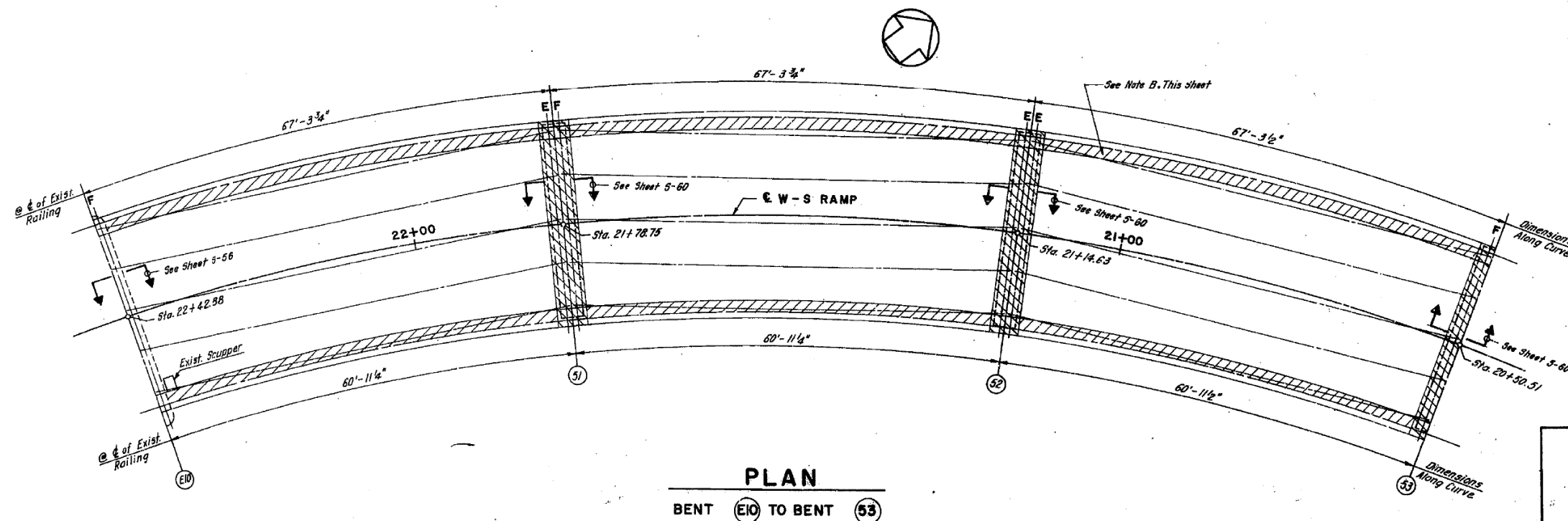
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. RT. 94	1975-117-R	COOK	290	72
FED. ROAD DIV. NO. ?	ILLINOIS	PROJECT I-IX-94-3()		



NOTES

For Typical Deck Cross Section See Sheet 3-45
For Types of Expansion Joints See Sheet 3-58



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
GENERAL PLAN
WEST-SOUTH RAMP
F. A. I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN, RICE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
3427

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____



USER NAME =	ahmad,issa	DESIGNED -	REVISD -
PLOT SCALE =	N.T.S	CHECKED -	REVISD -
PLOT DATE =	7/26/2018	DRAWN -	REVISD -
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		MI, MAI	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

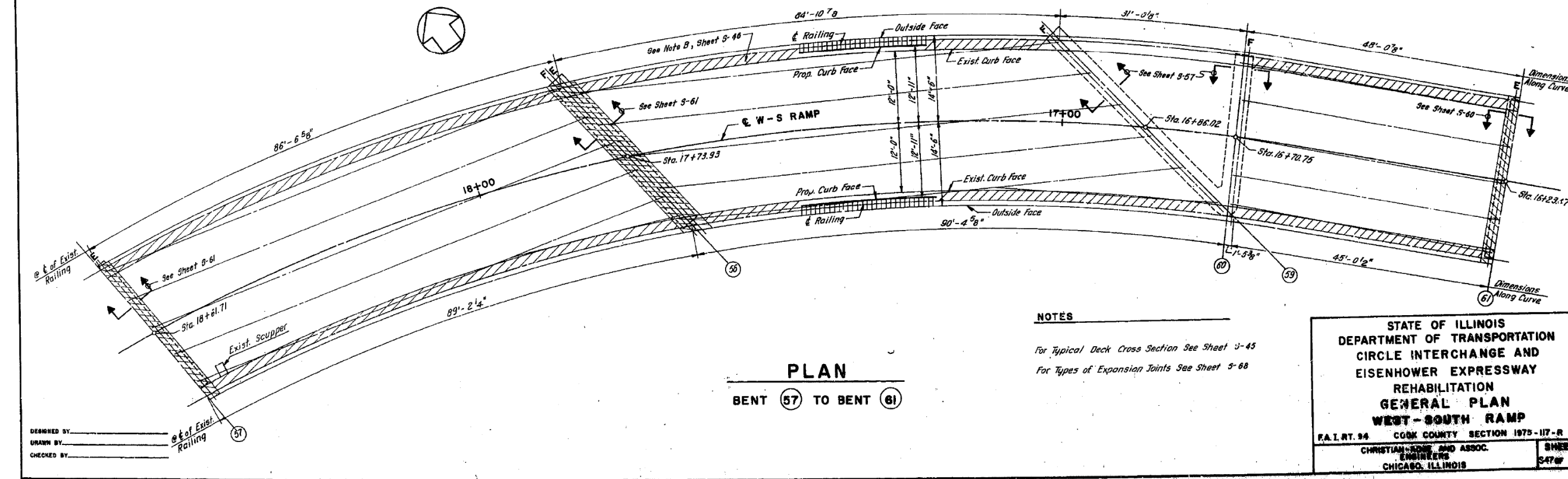
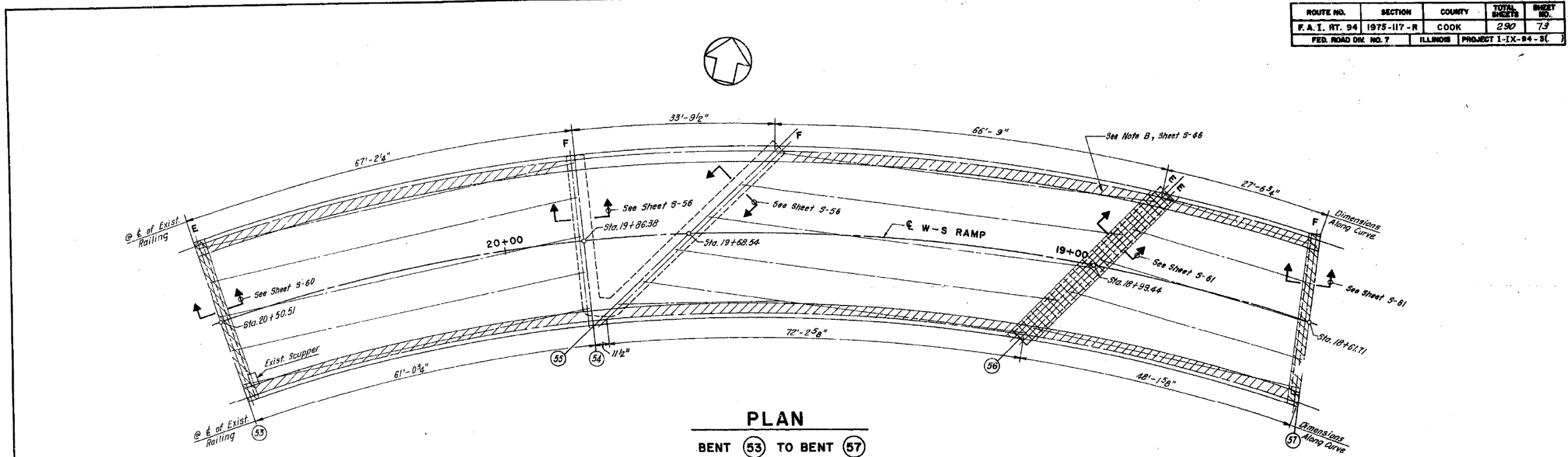
F. A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1847
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

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FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	73
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT 1-IX-84-31		



NOTES
 For Typical Deck Cross Section See Sheet 5-45
 For Types of Expansion Joints See Sheet 5-68

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
GENERAL PLAN
 WEST-SOUTH RAMP
 F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
 CHRISTIAN, LORNE AND ASSOC.
 ENGINEERS
 CHICAGO, ILLINOIS

SHEET NO. 547

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FILE NAME: D:\V1617479-PWINT_aecom\line\local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing360



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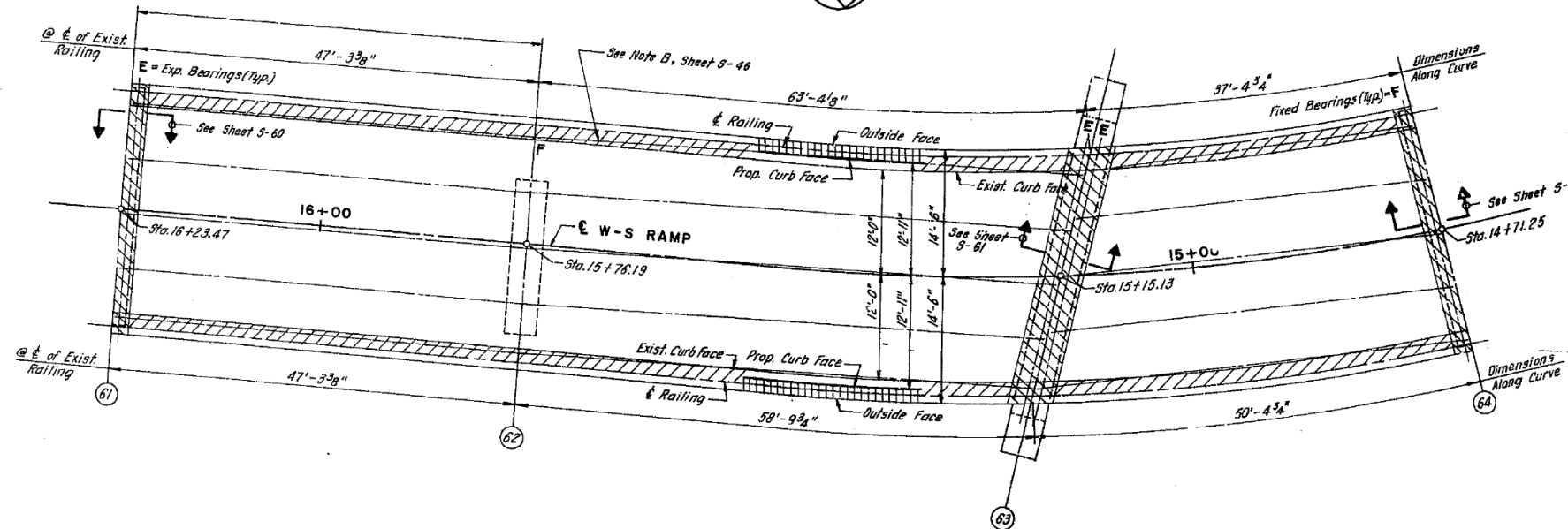
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

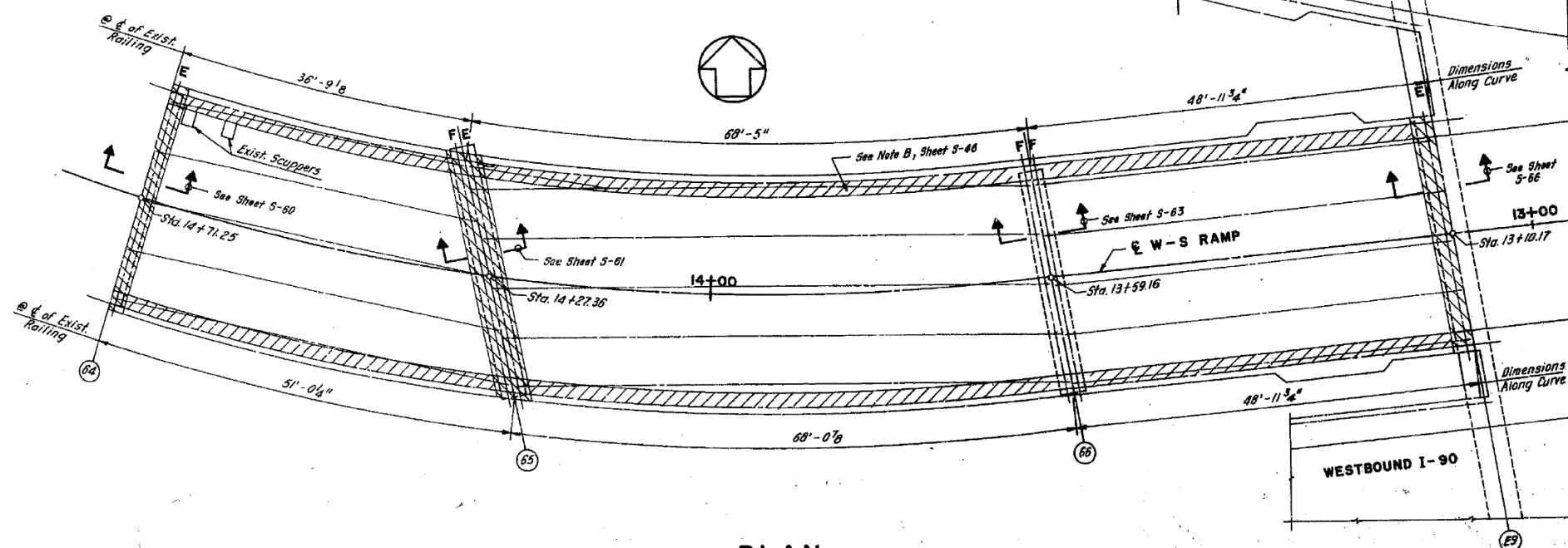
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	74
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-31		



PLAN

BENT 61 TO BENT 64



PLAN

BENT 64 TO BENT 69

NOTES

For Typical Deck Cross Section See Sheet 5-45
 For Types of Expansion Joints See Sheet 5-68

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
GENERAL PLAN
WEST-SOUTH RAMP
 F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
 CHRISTIAN & ASSOC.
 CHICAGO, ILLINOIS

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1849
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

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FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	75
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3(1)		

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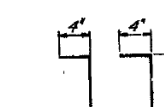
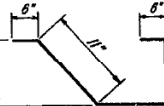
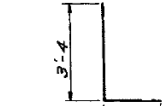
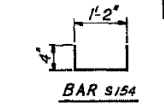
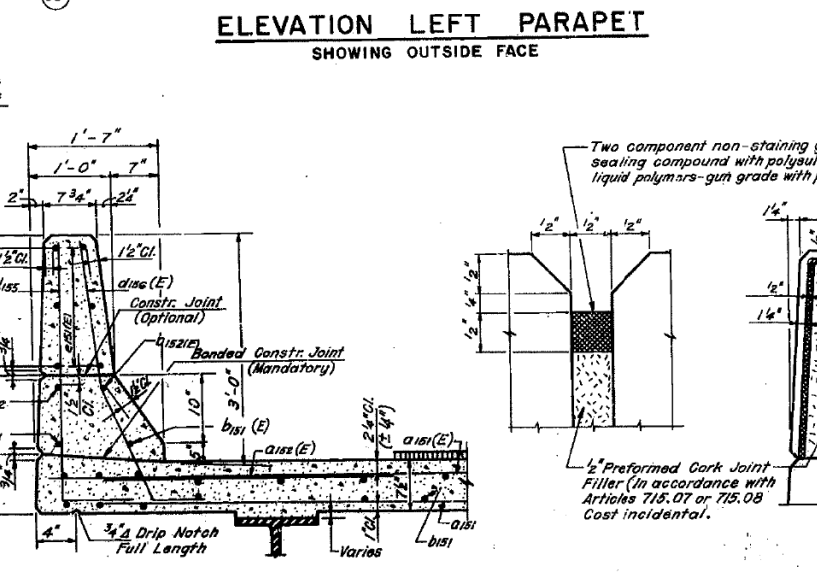
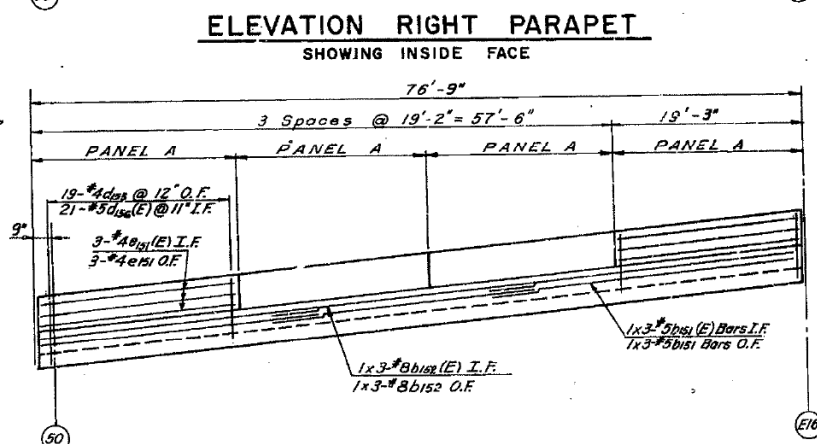
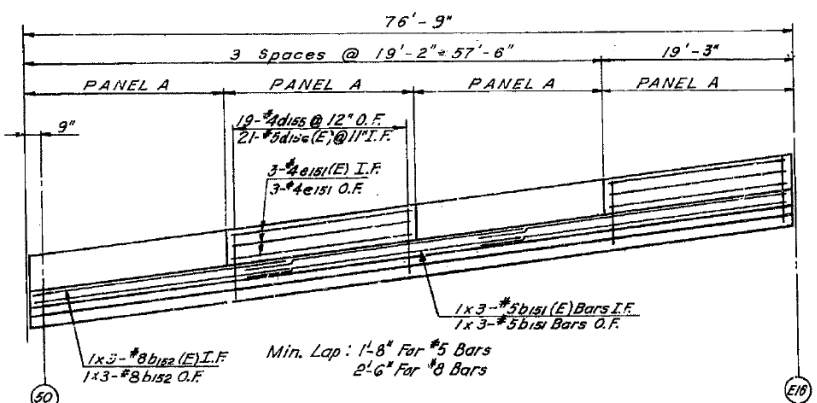
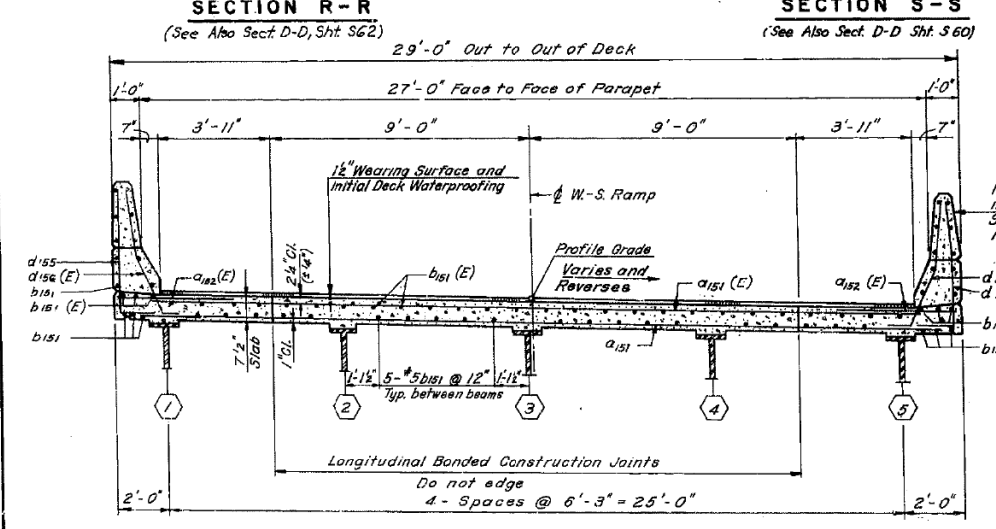
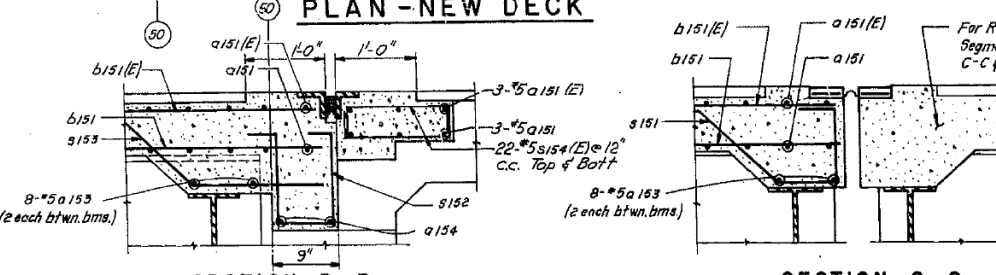
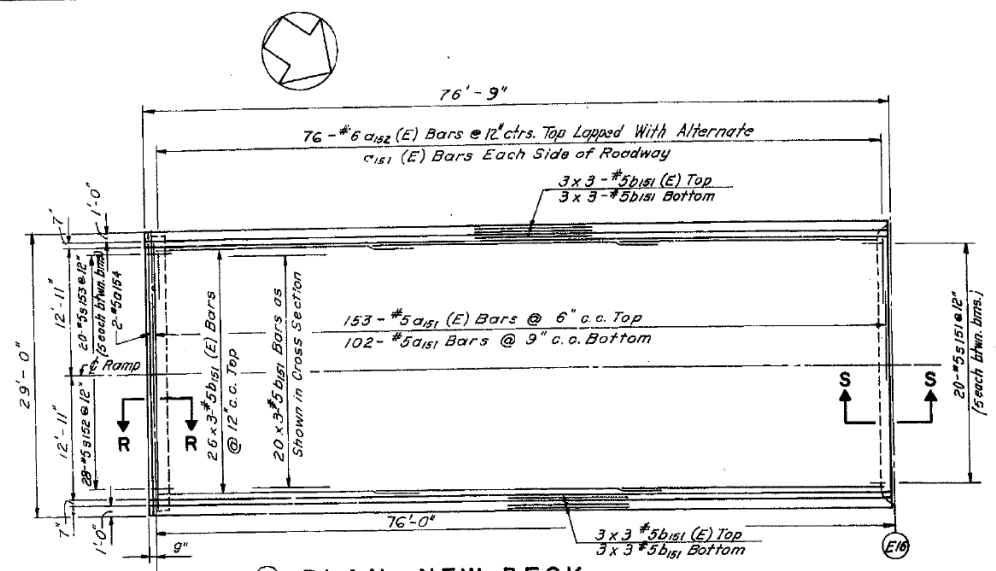
BAR NO.	SIZE	LENGTH	SHAPE
a151	105 #5	27'-0"	
a151(E)	156 #5	27'-0"	
a152(E)	152 #6	4'-0"	
a153	16 #5	5'-8"	
a154	2 #5	28'-6"	
b151	84 #5	26'-7"	
b151(E)	102 #5	26'-7"	
b152	6 #8	27'-1"	
b152(E)	6 #8	27'-1"	
d155	152 #4	5'-4"	
d156(E)	168 #5	3'-11"	
e151	24 #4	18'-9"	
e151(E)	24 #4	18'-9"	
s151	20 #5	3'-2"	
s152	28 #5	3'-2"	
s153	20 #5	2'-9"	
s154(E)	22 #5	1'-10"	

Waterproofing membrane System	Sq. Yd.	222
Bituminous Concrete Surface Course	Ton	19
Reinforcement Bars	Lb.	6,920
Reinforcement Bars (Epoxy Coated)	Lb.	9600
Glass X Concrete	Cu. Yd.	71.9
Protective Coat	Sq. Yd.	63
Preformed Joint Sealer, 2"	Lin. Ft.	29
Structural Steel	Lb.	660
Deck Joint (Partial Depth) Removal & Replacement (Special)	Sq. Yd.	4

Reinforcement Bars designated (E) shall be epoxy-coated. See Special Provisions.

Notes:

Bars indicated thus: 5x3-#5 etc, indicate 5 Lines of Bars with 3 bar lengths per line
Neoprene Expansion Joint 2" Quantity for Bent E16 included in Bill of Material Sheet S-57.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
SUPERSTRUCTURE AND PARAPETS
WEST - SOUTH RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET 509

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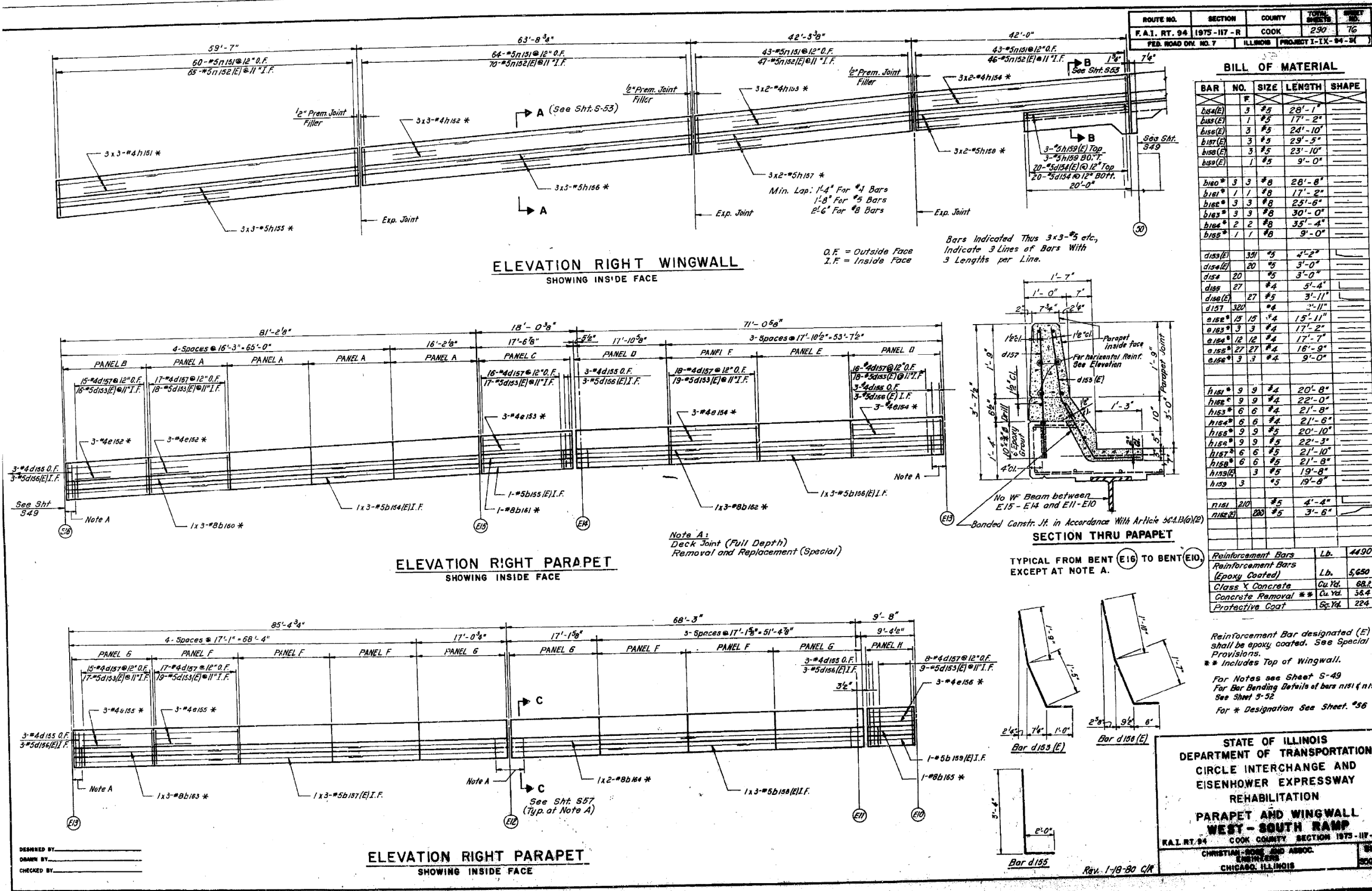
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1850
				CONTRACT NO. 60X93

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
PARAPET AND WINGWALL
WEST - SOUTH RAMP
R.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN, HONE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

FILE NAME: p:\w\161749-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing363



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CHECKED BY		DRAWN -	
		CHECKED -	MI, MAI
		REVISIONS	
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		REVISIONS	

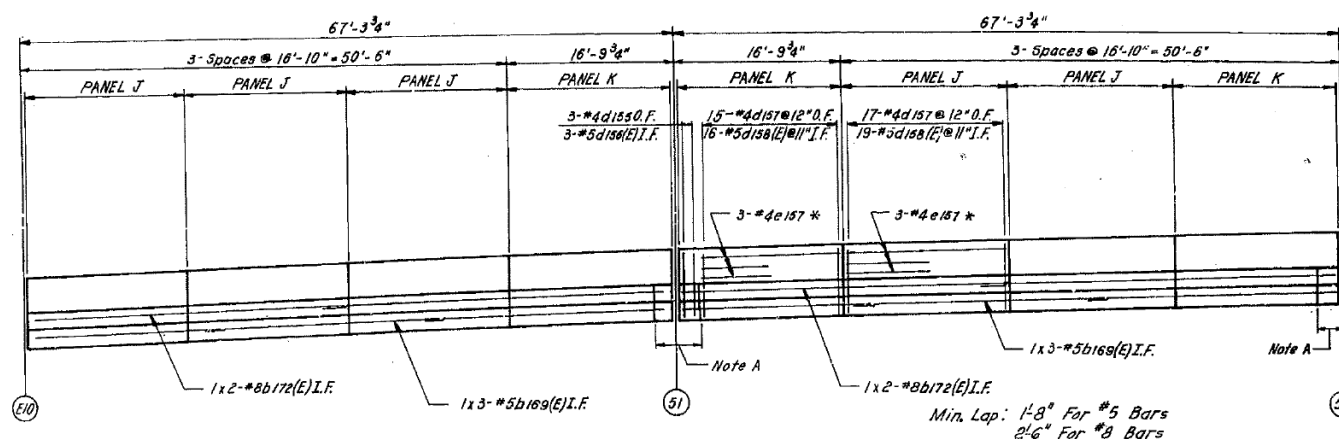
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

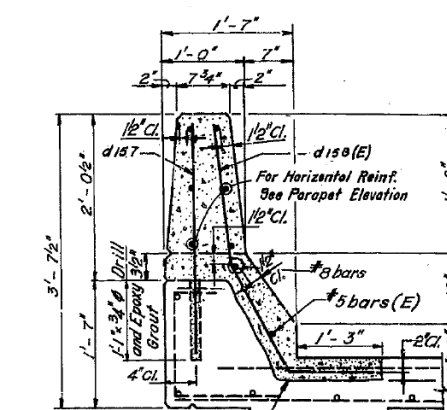
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	77
FED. ROAD DIV. NO. 7		ILLINOIS	PROJECT I-19-84-3E	



ELEVATION RIGHT PARAPET
SHOWING INSIDE FACE

Min. Lap: 1'-8" For #5 Bars
2'-6" For #8 Bars

Bars Indicated Thus 1x3-#5 etc.,
Indicate 1 Line of Bars With
3 Lengths per Line.

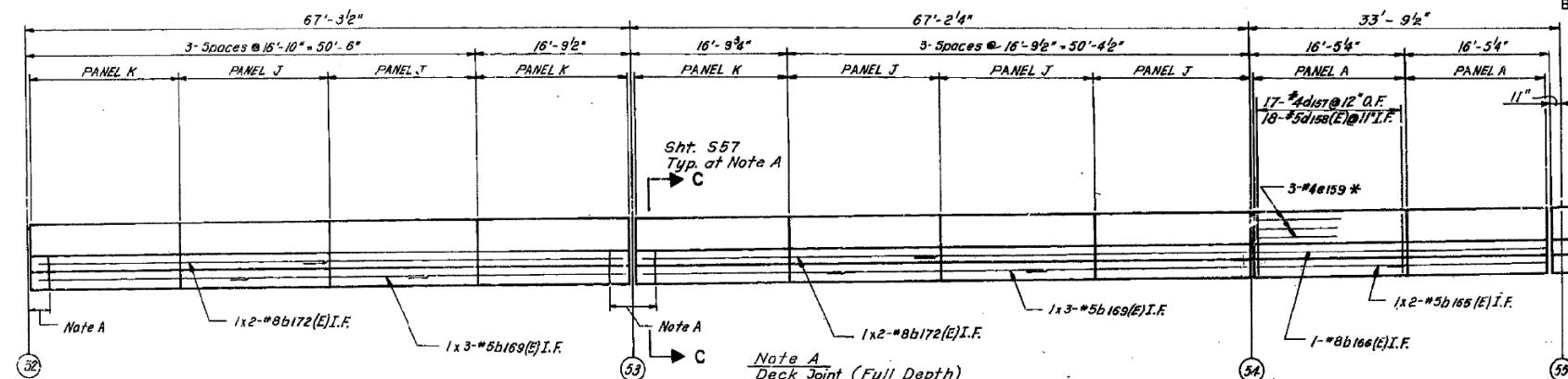


SECTION THRU PARAPET

TYPICAL FROM BENT (E10) TO
BENT (E9), EXCEPT AT NOTE A

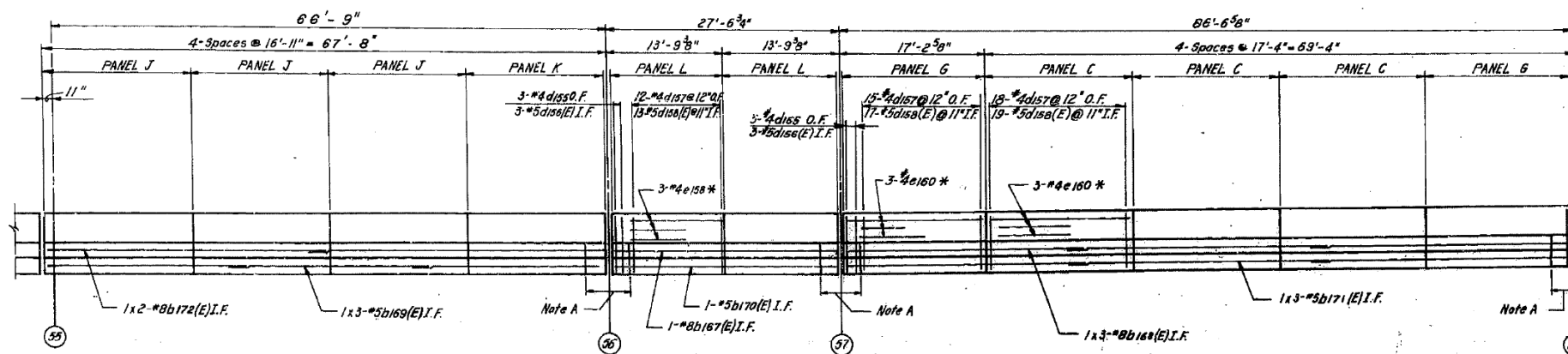
Banded Constr. It. in
Accordance With Art. 504.13(6)(2)

No WF Beams between
Bents 54-55 and 59-60



ELEVATION RIGHT PARAPET
SHOWING INSIDE FACE

Note A
Deck Joint (Full Depth)
Removal and Replacement (Special)



ELEVATION RIGHT PARAPET
SHOWING INSIDE FACE

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
b155(E)	2 #5	17'-2"	
b156(E)	15 #5	23'-6"	
b157(E)	1 #5	27'-2"	
b158(E)	3 #5	29'-10"	
b159*	10 #8	35'-0"	
b160*	1 #8	32'-6"	
b161*	1 #8	27'-2"	
b162*	3 #8	30'-6"	
d155	39 #4	5'-4"	
d156(E)	33 #5	3'-11"	
d157	458 #4	2'-11"	
d158(E)	512 #5	4'-2"	
e159*	6 6 #4	16'-2"	
e160*	15 15 #4	17'-0"	
e157*	60 60 #4	16'-6"	
e158*	6 6 #4	13'-5"	
Reinforcement Bars	Lb.	1980	
Reinforcement Bars (Epoxy Coated)	Lb.	5170	
Class X Concrete	Cu.Yd.	470	
Concrete Removal	Cu.Yd.	33.2	
Projective Coat	Sq.Yd.	200	

Reinforcement Bars Designated (E)
shall be epoxy coated, See Special
Provision.

For Notes see Sheet S-49
For Bar Bending Details, See Sheet S-5?
For * Designation See Sheet S-6

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
PARAPET
WEST - SOUTH RAMP
F.A.I. RT. 94 - COOK COUNTY SECTION 1975-117-R
CHRISTIAN, ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

Rev. 1-18-80 CR

FILE NAME: D:\V1617479-P\WINT_aecom\line\local\AECOM_DS02_NAY\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing364



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

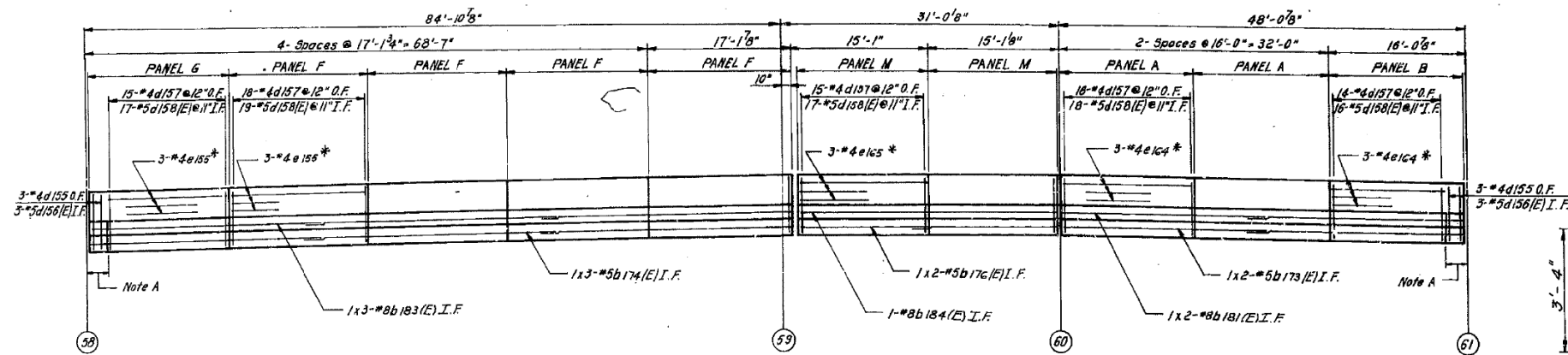
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1852
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

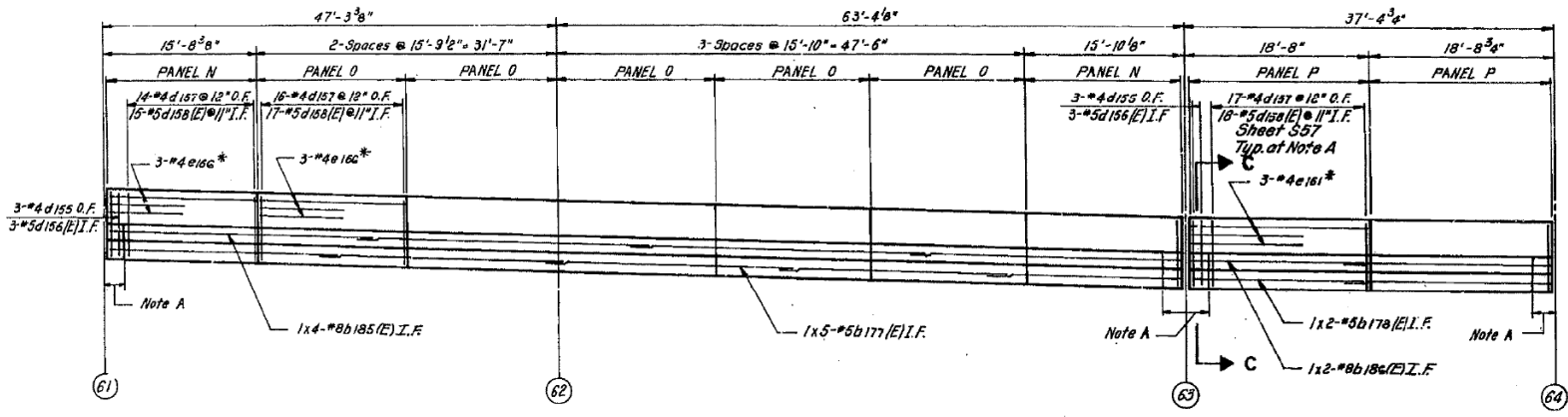
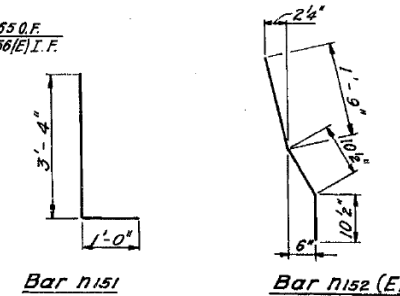
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIV. NO. 7		ILLINOIS	PROJECT I-1X-94-31	



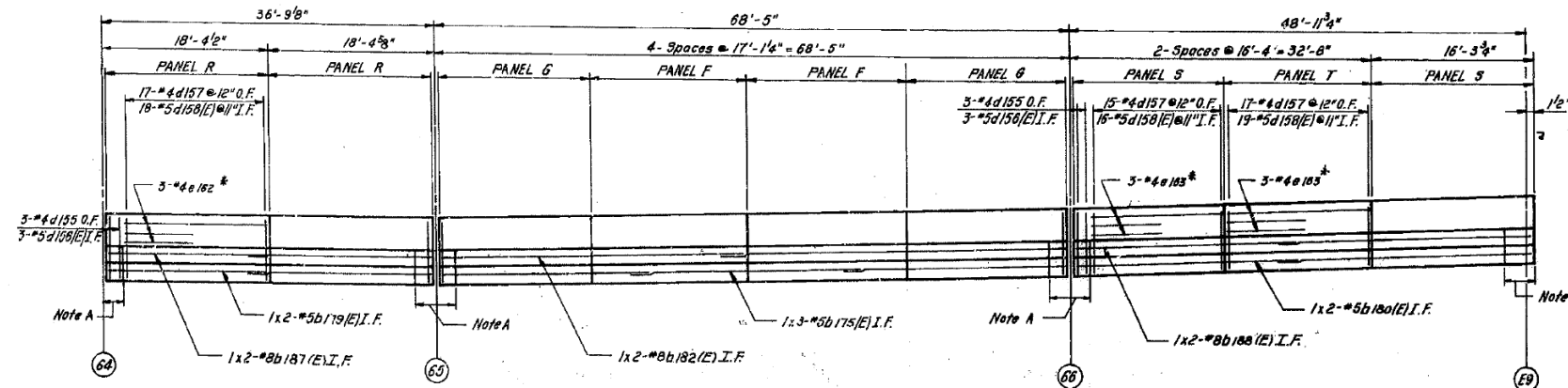
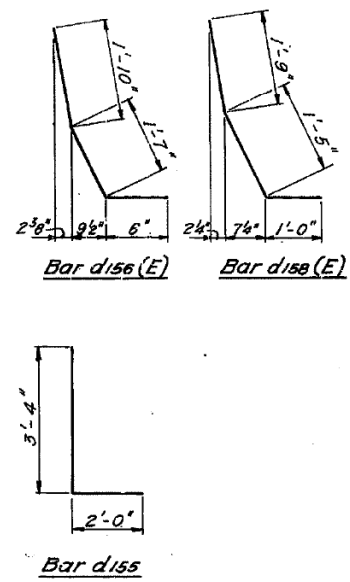
ELEVATION RIGHT PARAPET
SHOWING INSIDE FACE

Bars Indicated Thus 1x2-#5 etc., Indicate 1 Line of Bars With 2 Lengths per Line.



ELEVATION RIGHT PARAPET
SHOWING INSIDE FACE

Note A: Deck Joint (Full Depth) Removal and Replacement (Special)



ELEVATION RIGHT PARAPET
SHOWING INSIDE FACE

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
b173(E)	#5	24'-8"	
b174(E)	#5	29'-6"	
b175(E)	#5	23'-9"	
b176(E)	#5	19'-9"	
b177(E)	#5	23'-4"	
b178(E)	#5	19'-4"	
b179(E)	#5	19'-0"	
b180(E)	#5	25'-3"	
b181(E)	#8	25'-2"	
b182(E)	#8	35'-3"	
b183(E)	#8	30'-3"	
b184(E)	#8	29'-10"	
b185(E)	#8	29'-8"	
b186(E)	#8	19'-9"	
b187(E)	#8	19'-8"	
b188(E)	#8	25'-7"	
d155	#4	5'-4"	
d156(E)	#5	3'-11"	
d157	#4	2'-11"	
d158(E)	#5	4'-2"	
e164	#4	15'-8"	
e155	#4	18'-9"	
e165	#4	14'-9"	
e166	#4	15'-5"	
e167	#4	18'-4"	
e168	#4	18'-0"	
e169	#4	18'-0"	
Reinforcement Bars Lb. 1920			
Reinforcement Bars (Epoxy Coated) Lb. 5000			
Class X Concrete Cu. Yd. 45.3			
Concrete Removal Cu. Yd. 32.0			
Protective Coat Sq. Yd. 193			

Reinforcement Bars Designated (E) shall be Epoxy Coated. See Special Provisions.

Notes:
For Typical Section Thru Parapet See Sheet S-51
For Additional Notes See Sheet S-49.
For * Designation, See Sheet S-6.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
PARAPET
WEST - SOUTH RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

FILE NAME: D:\V161749-PWINT-accomline\local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Plans\33906-60X93-SXX-Existing\365



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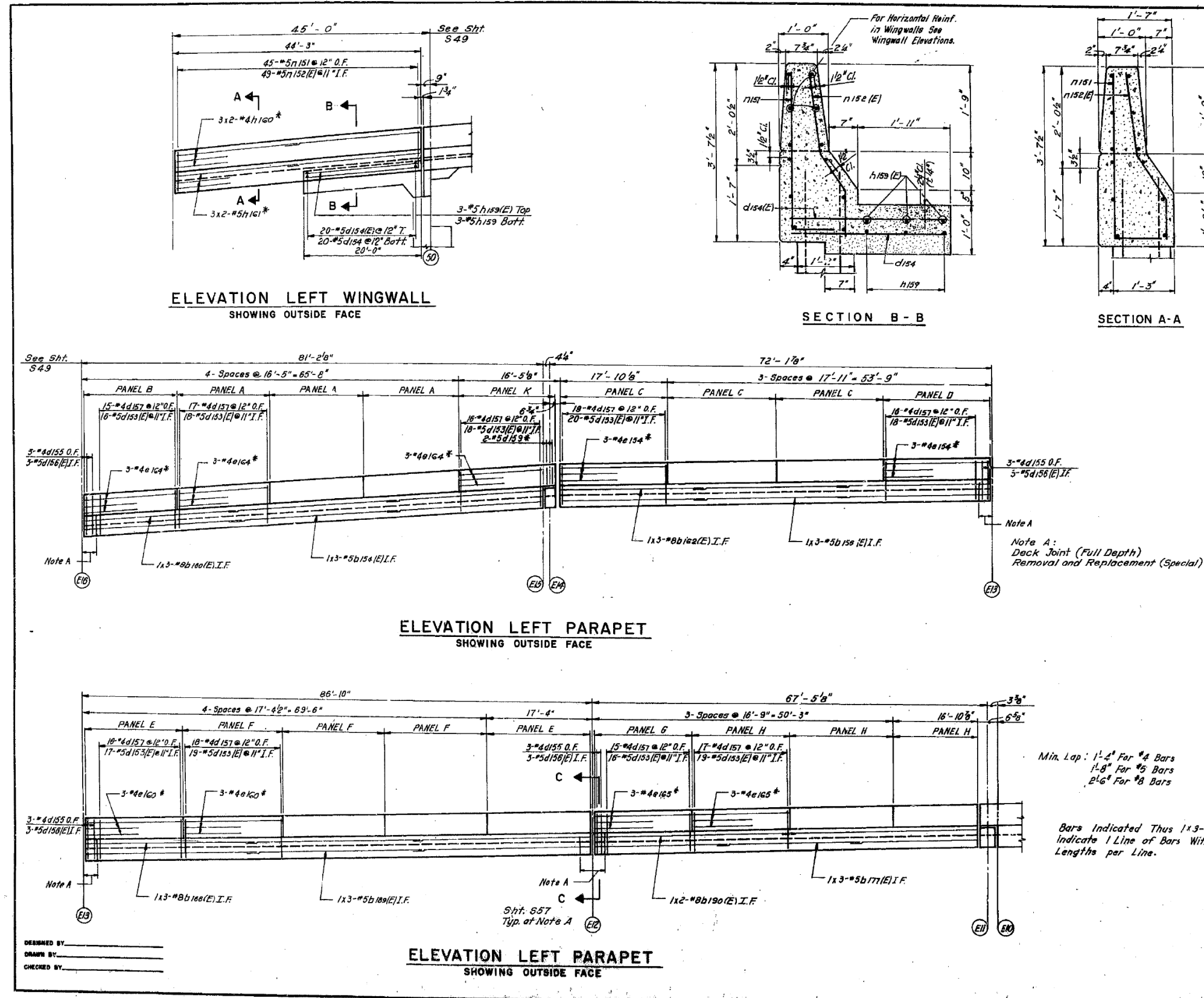
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1853
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	79
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT T-IX-94-3		

BILL OF MATERIAL

BAR NO.	NO.	SIZE	LENGTH	SHAPE
b154(E)	3	#5	28'-1"	
b155(E)	3	#5	30'-0"	
b177(E)	3	#5	23'-4"	
b156(E)	3	#5	24'-10"	
b160(E)	3	#8	26'-8"	
b161(E)	3	#8	30'-6"	
b162(E)	3	#8	25'-6"	
b163(E)	2	#8	34'-10"	
d153(E)	330	#5	4'-2"	
d154(E)	20	#5	3'-0"	
d155	15	#4	5'-4"	
d156(E)	15	#5	3'-11"	
d159	2	#5	1'-4"	
d157	304	#4	2'-11"	
e164	15	#4	16'-1"	
e154	12	#4	17'-7"	
e160	15	#4	17'-0"	
e165	12	#4	16'-5"	
d164	20	#5	3'-0"	
h160	6	#4	22'-7"	
h161	6	#5	22'-9"	
h159(E)	3	#5	19'-8"	
h159	3	#5	19'-8"	
n151	45	#5	4'-4"	
n152(E)	49	#5	3'-6"	
Reinforcement Bars		Lb.	1810	
Reinforcement Bars (Epoxy Coated)		Lb.	3840	
Class X Concrete		Cu. Yd.	410	
Concrete Removal		** Cu. Yd.	209	
Protective Coat		Sq. Yd.	145	

Reinforcement Bar Designated (E) shall be epoxy coated. See Special Provisions.
 ** Includes Top of Wingwall.

Notes:
 For Typical Section Thru Parapet See Sheet S51
 For additional Notes Sht. S49
 For Bar Bending Details, See Sheet S-50 & S-52
 For # Designation See Sht. S6.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
 PARAPET
 WEST-SOUTH RAMP
 F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
 CHRISTIAN, ROSS AND ASSOC.
 ENGINEERS
 CHICAGO, ILLINOIS

SHEET
 533P

FILE NAME: D:\1617479-PWINT-accomline\local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing366
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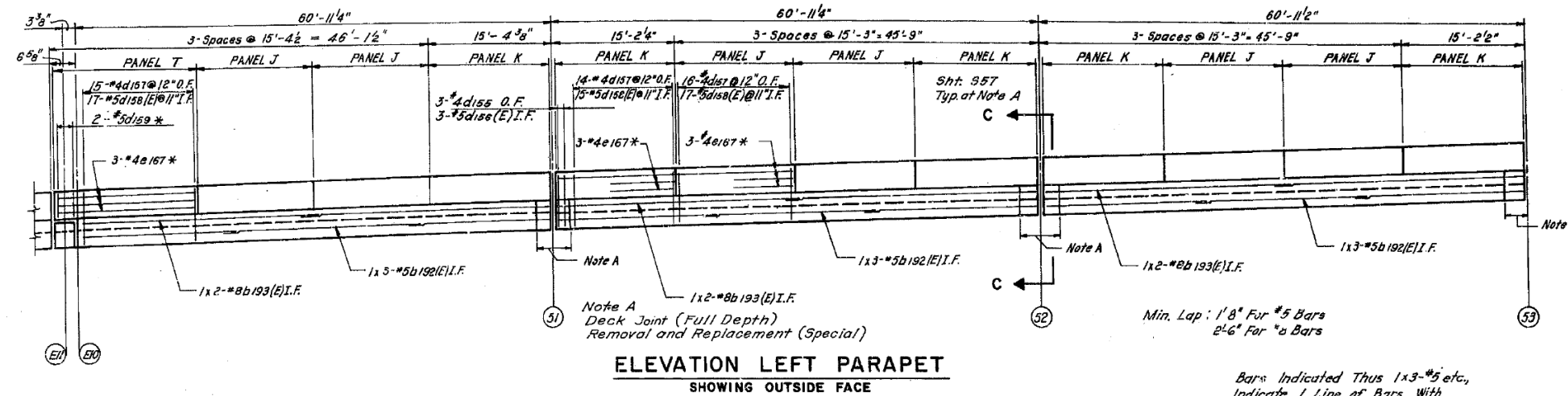
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 60X93
		ILLINOIS	FED. AID PROJECT	

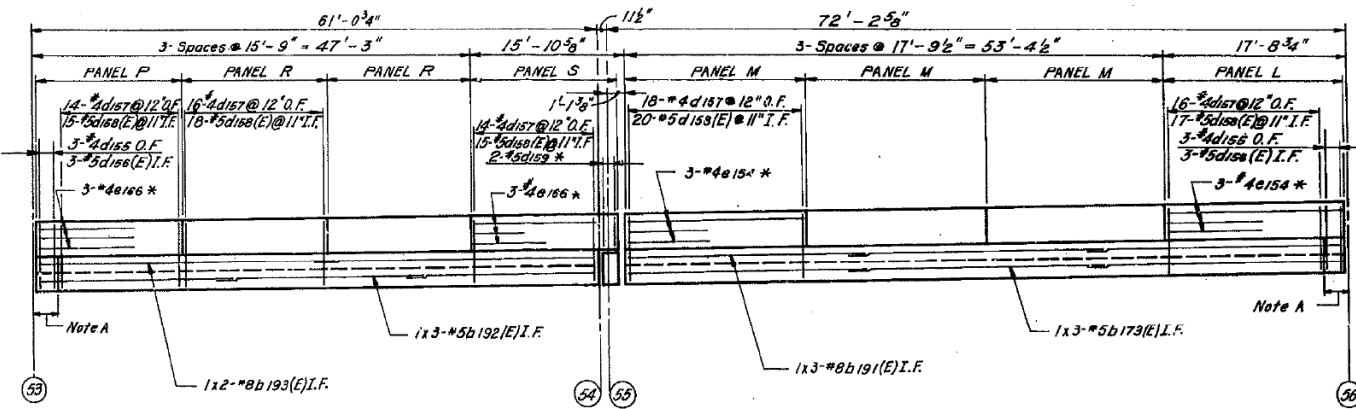
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT I-IX-94-3()		

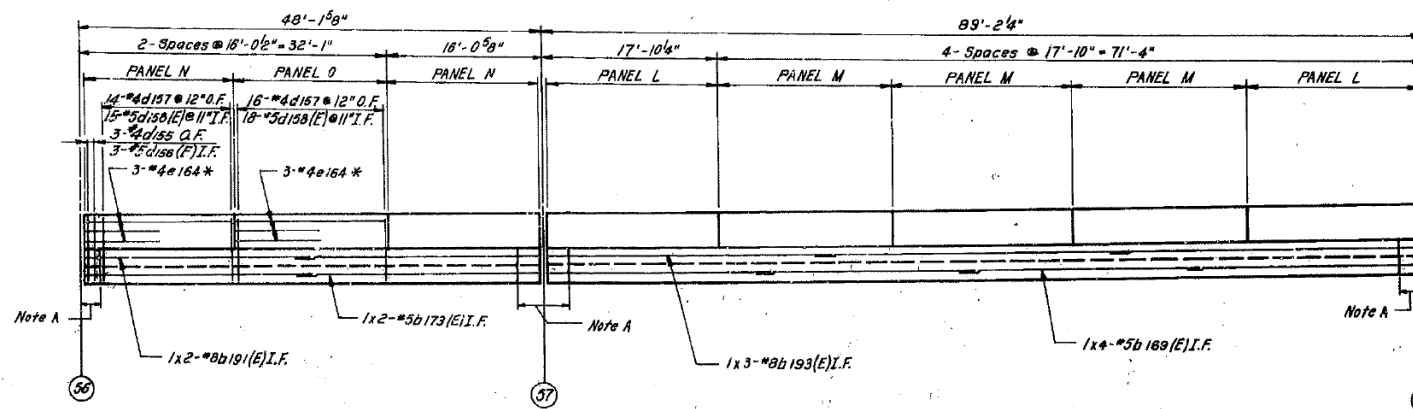


ELEVATION LEFT PARAPET
SHOWING OUTSIDE FACE

Bars Indicated Thus 1x3-#5 etc.,
Indicate 1 Line of Bars With
3 Lengths per Line.



ELEVATION LEFT PARAPET
SHOWING OUTSIDE FACE



ELEVATION LEFT PARAPET
SHOWING OUTSIDE FACE

BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
b173(E)	5 #5	24'-8"	
b181(E)	5 #8	25'-3"	
b189(E)	4 #5	23'-6"	
b192(E)	12 #5	21'-3"	
b193(E)	11 #8	31'-8"	
diss	33 #4	5'-4"	
diss(E)	33 #5	3'-11"	
d187	44 #4	2'-11"	
d198(E)	179 #5	4'-2"	
d199	4 #4 #5	1'-4"	
e157*	36 36 #4	14'-11"	
e158*	27 27 #4	17'-7"	
e159*	9 9 #4	15'-8"	
e165*	12 12 #4	15'-5"	
Reinforcement Bars	Lb.	1880	
Reinforcement Bars (Epoxy Coated)	Lb.	4880	
Class X Concrete	Cu.Yd.	44.5	
Concrete Removal	Cu.Yd.	31.5	
Protective Coat	Sq.Yd.	188	

Reinforcement Bar Designated (E) shall be Epoxy Coated. See Special Provisions.

Notes:
For Typical Section Thru Parapet See Sheet 551.
For Additional Notes See Sheet 549
For Bar Bending Details, See Sheet 3-32
For * Designation See Sht. 56

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
PARAPET
WEST - SOUTH RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN, ROOF AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

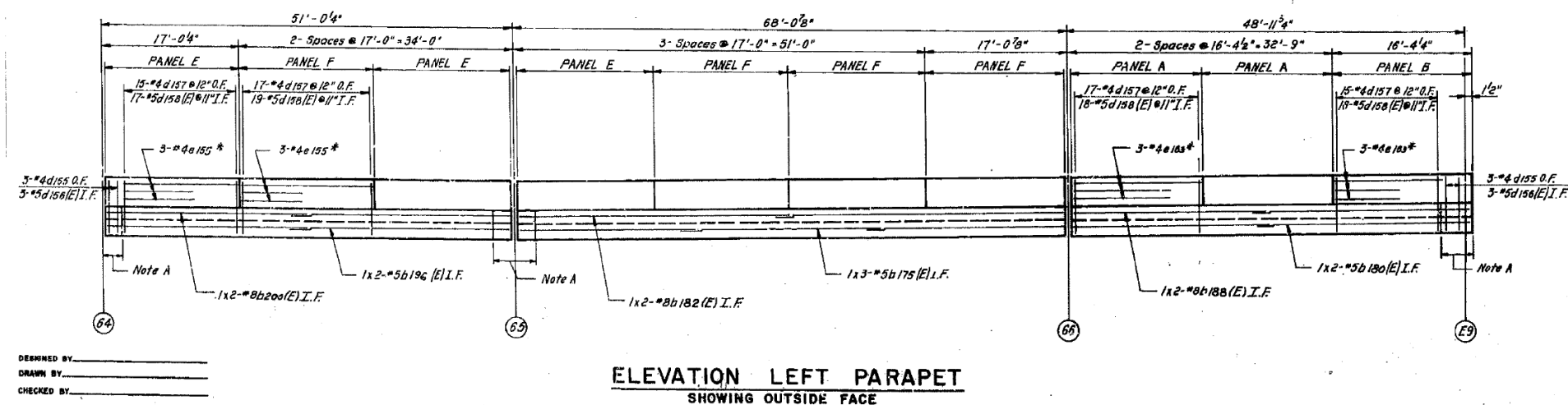
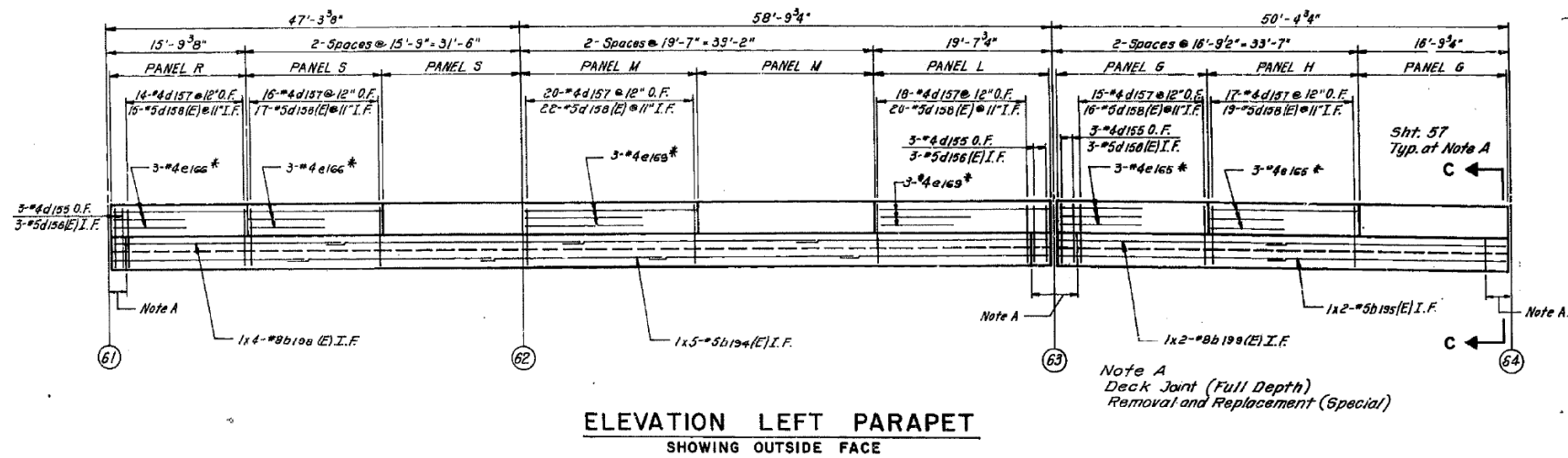
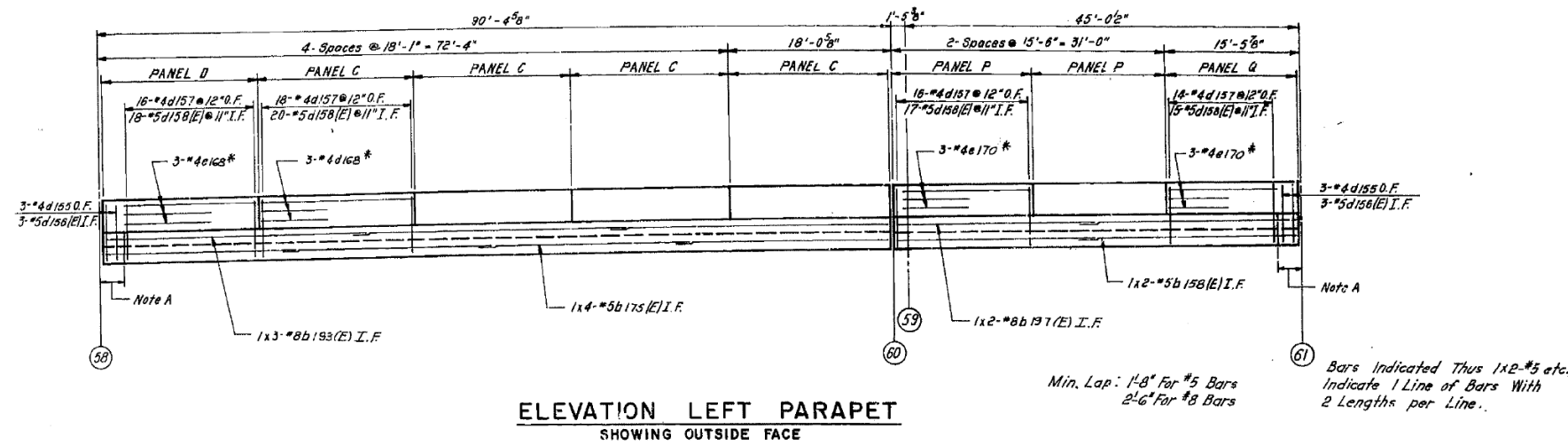
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1855
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	81
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3		



BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
b158(E)	#5	23'-0"	
b175(E)	#5	23'-9"	
b180(E)	#5	25'-3"	
b186(E)	#5	26'-2"	
b194(E)	#5	22'-5"	
b195(E)	#5	25'-10"	
b188(E)	#8	25'-8"	
b182(E)	#8	35'-1"	
b193(E)	#8	31'-8"	
b197(E)	#8	24'-4"	
b198(E)	#8	28'-3"	
b199(E)	#8	26'-3"	
b200(E)	#8	26'-7"	
d155	#4	5'-4"	
d156(E)	#5	3'-11"	
d157	#4	2'-11"	
d158(E)	#5	1'-2"	
e165*	#4	18'-5"	
e166*	#4	17'-9"	
e167*	#4	18'-3"	
e169*	#4	19'-3"	
e170*	#4	15'-2"	
e168*	#4	15'-5"	
e169*	#4	16'-0"	
Reinforcement Bars	Lb.	1890	
Reinforcement Bars (Epoxy Coated)	Lb.	4950	
Class X Concrete	Cu. Yd.	44.9	
Concrete Removal	Cu. Yd.	31.6	
Protective Coat	Sq. Yd.	191	

Reinforcement Bar Designated (E) shall be Epoxy Coated. See Special Provisions.

Notes:
For typical Section Thru Parapet See Sheet S51
For Additional Notes see Sheet S49
For Bar Bending Details, See Sheet S-52
For * Designation See Sht. S6.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
PARAPET
WEST - SOUTH RAMP
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN, ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

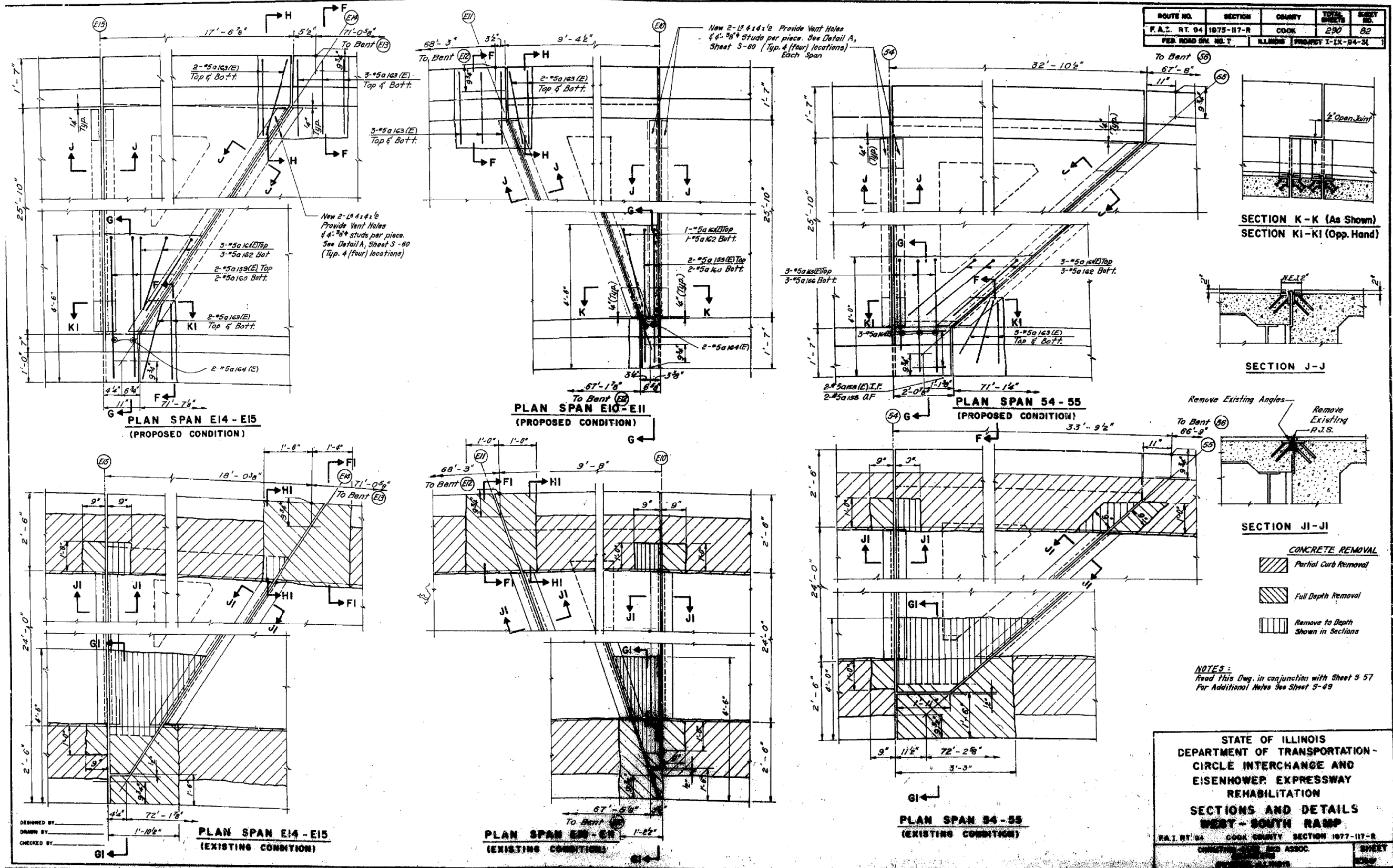
SHEET
355 OF

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

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PLOT SCALE =	N.T.S	CHECKED -	REVISD -
PLOT DATE =	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -
		MI, MAI	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1856
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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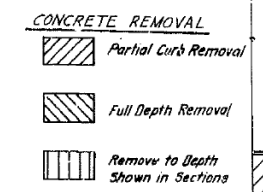
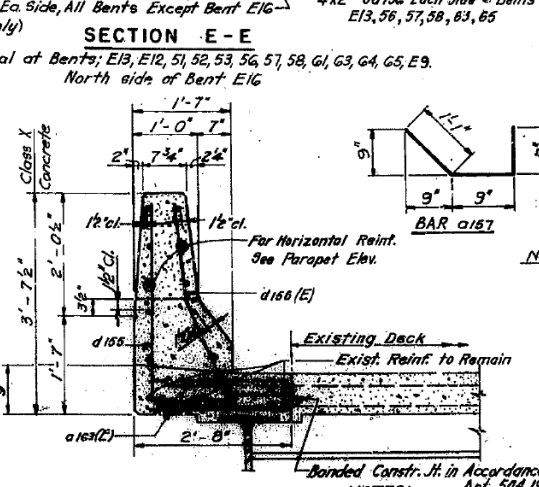
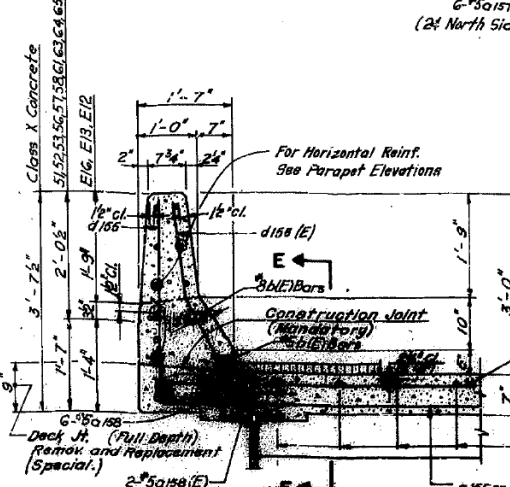
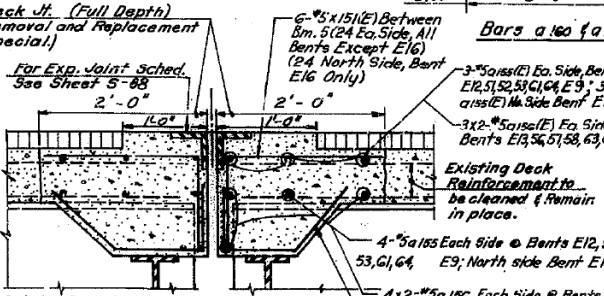
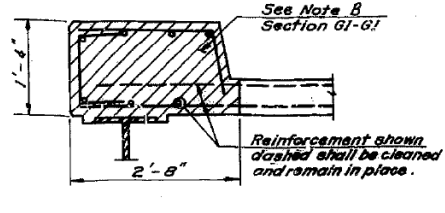
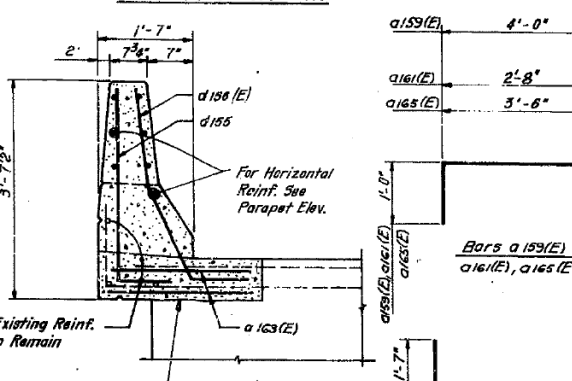
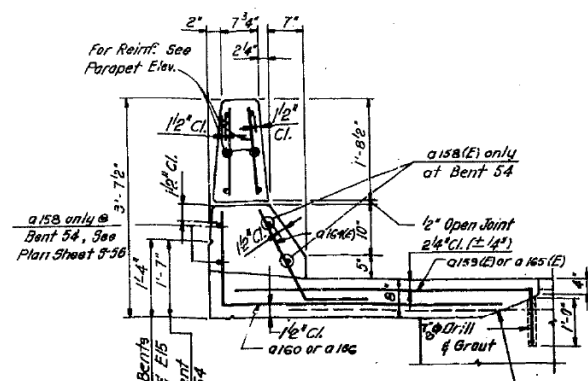
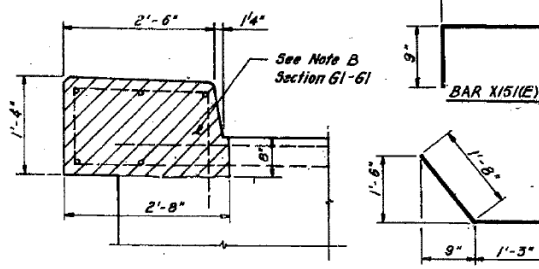
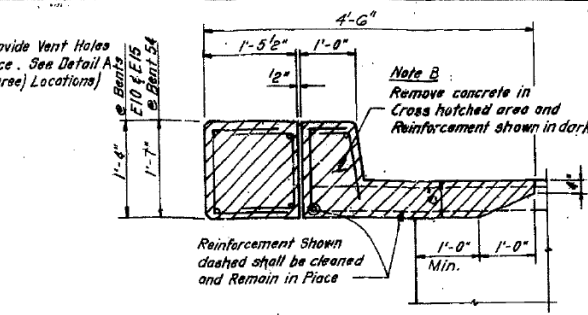
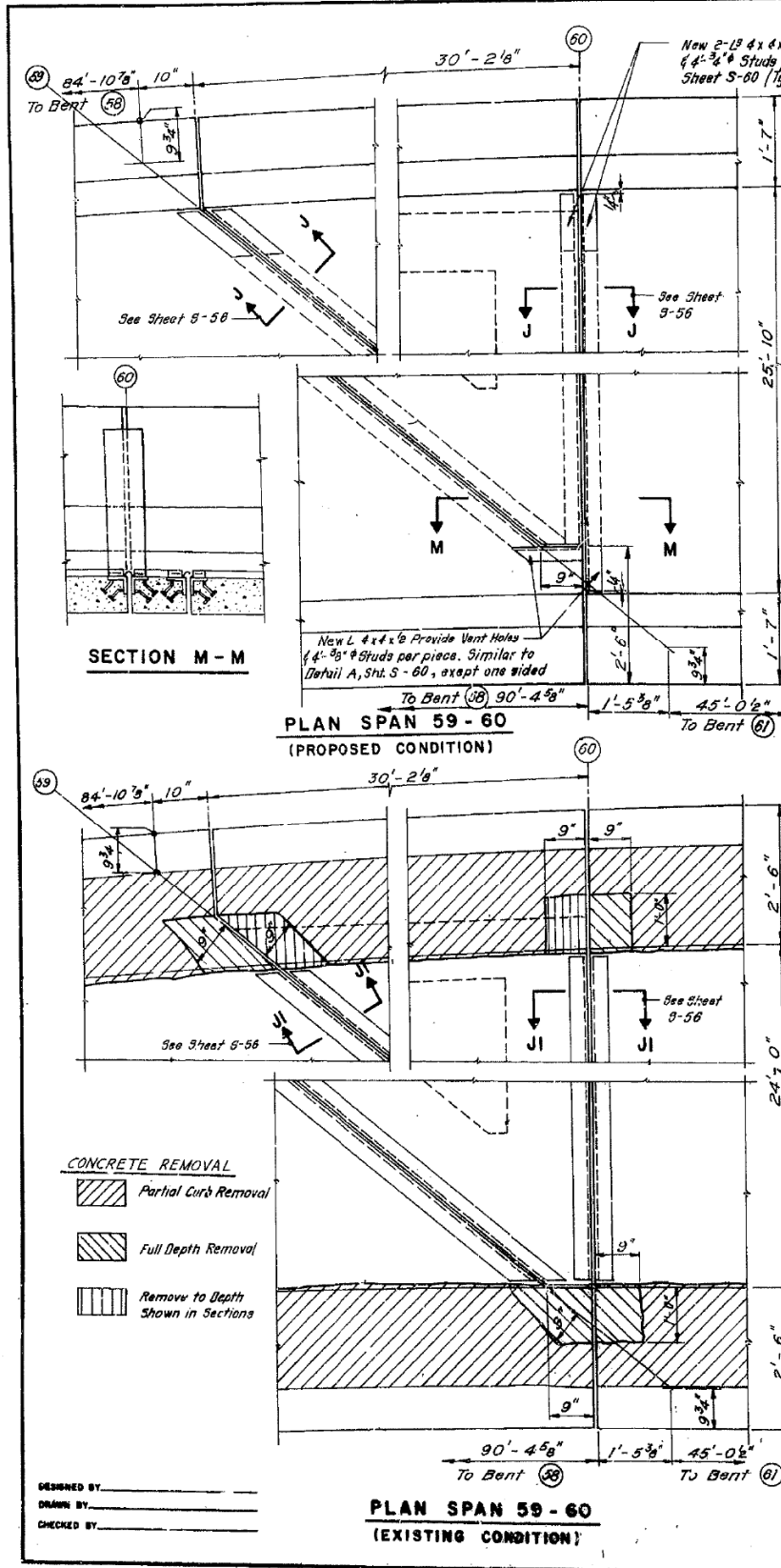
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1857
				CONTRACT NO. 60X93
				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT I-IX-94-34		

BILL OF MATERIAL FOR DECK JOINT RECONSTRUCTION

LOCATION	BAR	NO.		SIZE	LENGTH	SHAPE
		EA. BENT	TOTAL			
BENTS E12, E13, E14, E15, E16, E17, E18, E19 (See Note C)	X151(E)	48	336	#5	2'-6"	U
	O152(E)	6	42	#5	28'-0"	U
	O155	8	56	#5	28'-0"	U
	O157	48	336	#5	2'-7"	U
	O158(E)	8	56	#5	1'-9"	U
O159	24	168	#5	1'-9"	U	
BENTS E13, E14, E15, E18, E19, E20, E21	X151(E)	48	288	#5	2'-6"	U
	O152(E)	12	72	#5	18'-5"	U
	O156	16	96	#5	18'-5"	U
	O157	48	288	#5	2'-7"	U
	O158	8	48	#5	1'-9"	U
O159	24	144	#5	1'-9"	U	
BENT E16	X151(E)	24	24	#5	2'-6"	U
	O152(E)	3	3	#5	28'-0"	U
	O155	4	4	#5	28'-0"	U
	O157	24	24	#5	2'-7"	U
	O158(E)	4	4	#5	1'-9"	U
O159	12	12	#5	1'-9"	U	
BENTS E14 and E15	O153(E)	2	2	#5	5'-0"	U
	O160	2	2	#5	5'-1"	U
	O161(E)	3	3	#5	3'-8"	U
	O162	2	2	#5	2'-8"	U
	O163(E)	14	14	#5	2'-2"	U
O164(E)	2	2	#5	2'-11"	U	
BENTS E10 and E11	O159(E)	2	2	#5	5'-0"	U
	O160	2	2	#5	5'-1"	U
	O161(E)	1	1	#5	3'-8"	U
	O162	1	1	#5	2'-8"	U
	O163(E)	10	10	#5	2'-2"	U
O164(E)	2	2	#5	2'-11"	U	
BENTS E14 and E15	O165(E)	3	3	#5	3'-8"	U
	O166	3	3	#5	2'-8"	U
	O167	6	6	#5	2'-2"	U
	O168(E)	3	3	#5	2'-11"	U
	O169	3	3	#5	4'-6"	U
O170	2	2	#5	1'-9"	U	
O171	2	2	#5	1'-9"	U	

Reinforcement Bars	Lb.	6,010
Reinforcement Bars (Epoxy Coated)	Lb.	4,730
Neoprene Expansion Joint, 2"	Lin. Ft.	460
Preformed Joint Sealer, 2 1/2"	Lin. Ft.	238
Preformed Joint Sealer, 4"	Lin. Ft.	30
Structural Steel	Lb.	14,400
Deck Joint (Full Depth) Removal & Replacement (Spec.)	Sq. Yd.	195

For (E) Designation See Sht. 365
 Note 'C': Quantities for Bent E9 Cover Both Side of The Joint.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION CIRCLE INTERCHANGE AND EISENHOWER EXPRESSWAY REHABILITATION SECTIONS AND DETAILS WEST - SOUTH RAMP

F.A.I. RT. 94	COOK COUNTY SECTION 1977-117-B
CONTRACT NO. 60X93	

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USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

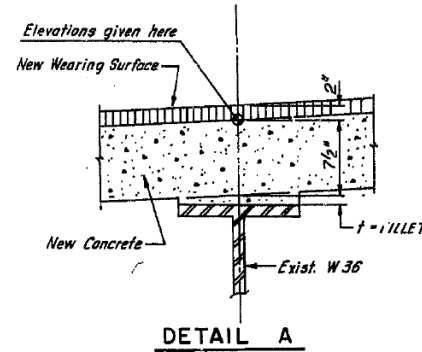
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1858
				CONTRACT NO. 60X93
				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

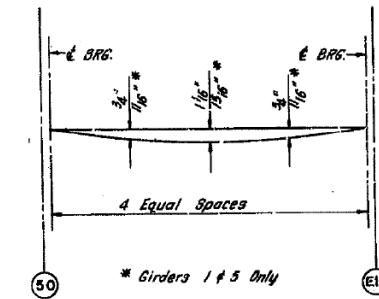
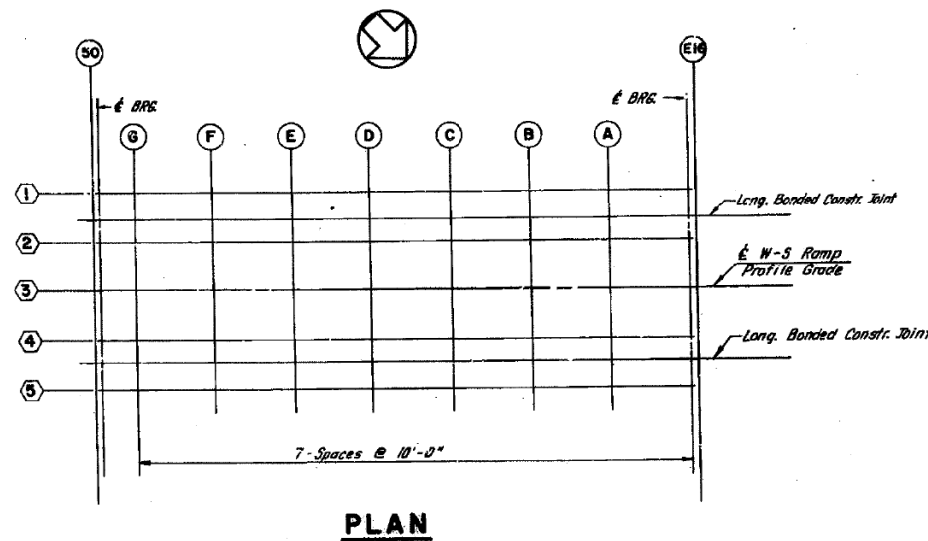
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1875-117-R	COOK	233	84
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT I-55-94-B		

	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.
GIRDER 1	BRG BENT E16	2564+450	12.500	18.251	18.251
	A	2574+450	12.500	17.582	17.612
	B	2584+450	12.500	16.912	16.971
	C	2594+450	12.500	16.243	16.315
	D	2604+450	12.500	15.573	15.651
	E	2614+450	12.500	14.903	14.968
	F	2624+450	12.500	14.234	14.378
	G	2634+450	12.500	13.564	13.578
	BRG ABUT 50	2638+950	12.500	13.263	13.263
LONG BONDED CONSTR. JOINT	BRG BENT E16	2564+450	9.000	18.200	18.200
	A	2574+450	9.000	17.549	17.583
	B	2584+450	9.000	16.898	16.962
	C	2594+450	9.000	16.247	16.325
	D	2604+450	9.000	15.595	15.680
	E	2614+450	9.000	14.944	15.013
	F	2624+450	9.000	14.293	14.342
	G	2634+450	9.000	13.642	13.657
	BRG ABUT 50	2638+950	9.000	13.349	13.349
GIRDER 2	BRG BENT E16	2564+450	6.250	18.160	18.160
	A	2574+450	6.250	17.523	17.557
	B	2584+450	6.250	16.887	16.951
	C	2594+450	6.250	16.250	16.328
	D	2604+450	6.250	15.613	15.698
	E	2614+450	6.250	14.977	15.047
	F	2624+450	6.250	14.340	14.388
	G	2634+450	6.250	13.703	13.718
	BRG ABUT 50	2638+950	6.250	13.417	13.417
W-S RP & GIR 3 (PROFILE GRADE)	BRG BENT E16	2564+450	0.000	18.069	18.069
	A	2574+450	0.000	17.465	17.498
	B	2584+450	0.000	16.861	16.926
	C	2594+450	0.000	16.257	16.336
	D	2604+450	0.000	15.654	15.738
	E	2614+450	0.000	15.050	15.130
	F	2624+450	0.000	14.446	14.495
	G	2634+450	0.000	13.842	13.857
	BRG ABUT 50	2638+950	0.000	13.570	13.570
GIRDER 4	BRG BENT E16	2564+450	-6.250	17.977	17.977
	A	2574+450	-6.250	17.407	17.440
	B	2584+450	-6.250	16.836	16.900
	C	2594+450	-6.250	16.265	16.343
	D	2604+450	-6.250	15.694	15.779
	E	2614+450	-6.250	15.123	15.194
	F	2624+450	-6.250	14.552	14.601
	G	2634+450	-6.250	13.981	13.996
	BRG ABUT 50	2638+950	-6.250	13.724	13.724
LONG BONDED CONSTR. JOINT	BRG BENT E16	2564+450	-9.000	17.937	17.937
	A	2574+450	-9.000	17.381	17.414
	B	2584+450	-9.000	16.824	16.889
	C	2594+450	-9.000	16.268	16.346
	D	2604+450	-9.000	15.712	15.796
	E	2614+450	-9.000	15.155	15.226
	F	2624+450	-9.000	14.599	14.647
	G	2634+450	-9.000	14.042	14.097
	BRG ABUT 50	2638+950	-9.000	13.792	13.792
GIRDER 5	BRG BENT E16	2564+450	-12.500	17.886	17.886
	A	2574+450	-12.500	17.348	17.379
	B	2584+450	-12.500	16.810	16.869
	C	2594+450	-12.500	16.272	16.344
	D	2604+450	-12.500	15.734	15.812
	E	2614+450	-12.500	15.196	15.281
	F	2624+450	-12.500	14.658	14.703
	G	2634+450	-12.500	14.120	14.134
	BRG ABUT 50	2638+950	-12.500	13.878	13.878



FILLET HEIGHTS

To determine "t" as shown in DETAIL A: After all existing concrete superstructure has been demolished and removed from each span, elevations of the top flanges of the beams shall be taken at intervals shown in Plan. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown in tables minus slab thickness, equals the fillet heights "t" above the top flange of beams.



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only)

NOTE: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.

NOTE: All elevations in the tables are given at the top of the concrete deck as shown in DETAIL A.

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
ELEVATIONS
BEST COPY AVAILABLE
PAINT BY _____
DATE _____

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 54	1975-117-R	COOK	1972	1860
PRO. NUMBER NO. 7	ILLINOIS	CONTRACT NO. 60X93		

	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
N EDGE/PWT	☉ BENT 62	1576.187	12.916	26.941
	A	1586.187	12.916	27.057
	B	1596.187	12.916	27.172
	C	1606.187	12.916	27.288
	D	1616.187	12.916	27.399
☉ BENT 61	1623.467	12.916	27.472	

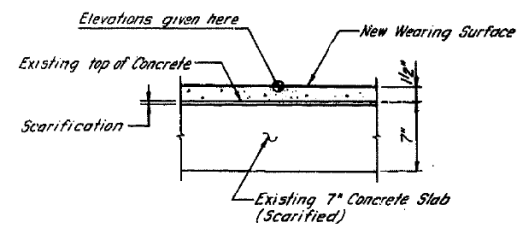
	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
☉ W-S RAMP [PROFILE GRADE]	☉ BENT 62	1576.187	0.000	27.105
	A	1586.187	0.000	27.152
	B	1596.187	0.000	27.199
	C	1606.187	0.000	27.246
	D	1616.187	0.000	27.288
☉ BENT 61	1623.467	0.000	27.310	

	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
S EDGE/PWT	☉ BENT 62	1576.187	-12.916	27.269
	A	1586.187	-12.916	27.247
	B	1596.187	-12.916	27.225
	C	1606.187	-12.916	27.203
	D	1616.187	-12.916	27.176
☉ BENT 61	1623.467	-12.916	27.149	

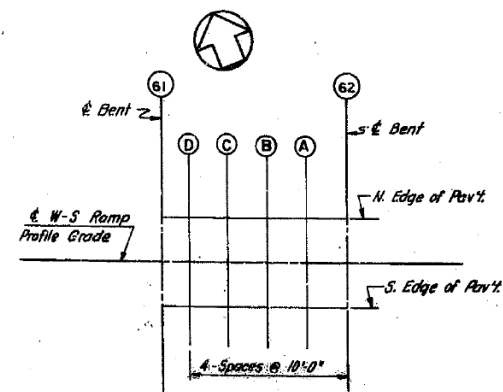
NOTE: All elevations in the tables are given at the top of the new wearing surface as shown in DETAIL A.

STATIONING NOTE:

Stationing in the tables is based on the arc definition for curves adjusted for each span at the leading S bent to closely correspond to the original chord definition stations.



DETAIL A



PLAN

DESIGNED BY: _____
 CHECKED BY: _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 GARDENHURST EXPRESSWAY
 RENOVATION
 ELEVATIONS
 BENT - BENT RAMP
 F.A.I. RT. 54 - 1975-117-R - COOK COUNTY - 1972 - 1860
 CONTRACT NO. 60X93

FILE NAME: D:\V161749-PWINT-accomonline.local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\339906-60X93-SXX-Existing372



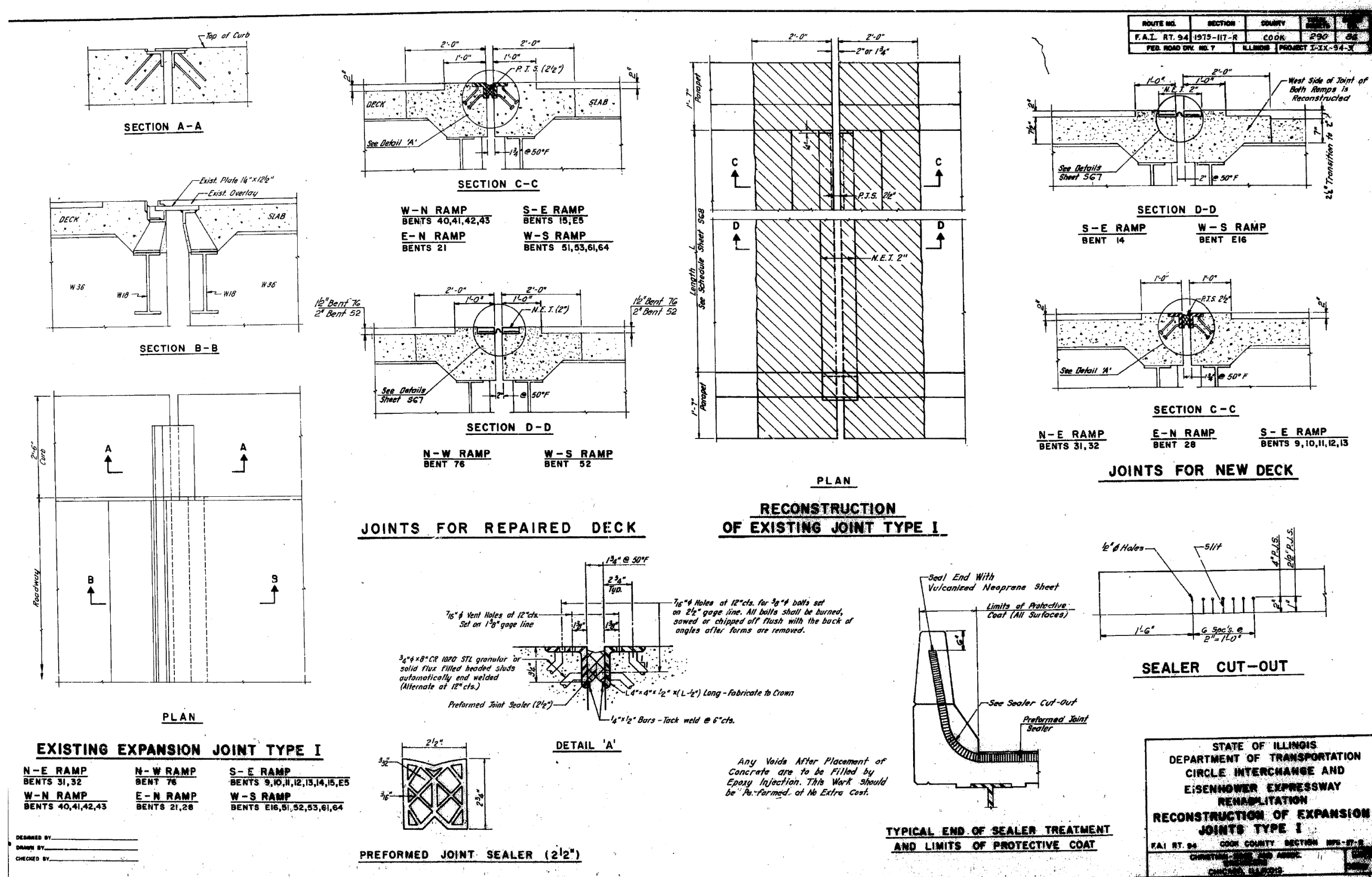
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PLOT SCALE =	N.T.S	CHECKED -	REVISION -
PLOT DATE =	7/26/2018	DRAWN -	REVISION -
		CHECKED -	REVISION -
		MI, MAI	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1860
CONTRACT NO. 60X93				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	24
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 RENOVATION
 RECONSTRUCTION OF EXPANSION
 JOINTS TYPE I
 F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
 CHRISTOPHER AND ANNE
 CHICAGO, ILLINOIS

FILE NAME: DWG:\161749-PWINT-aecom\online\local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CircleInterch\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing373



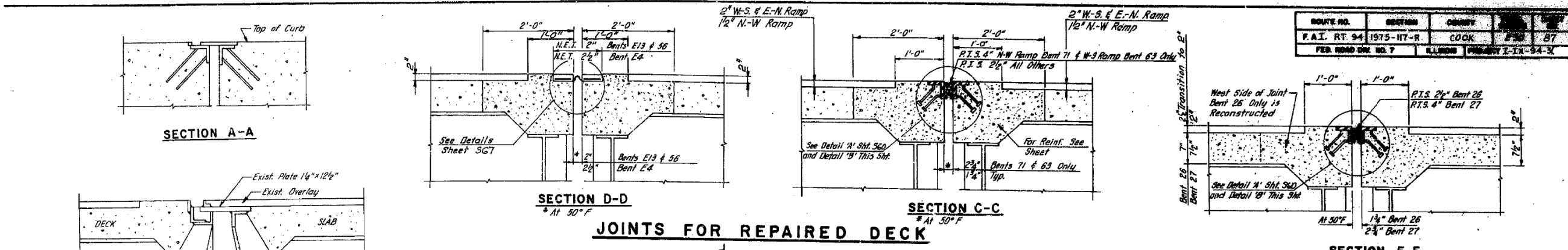
USER NAME =	ahmad,issa	DESIGNED -	REVISD -
PLOT SCALE =	N.T.S	CHECKED -	REVISD -
PLOT DATE =	7/26/2018	DRAWN -	REVISD -
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		MI, MAI	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

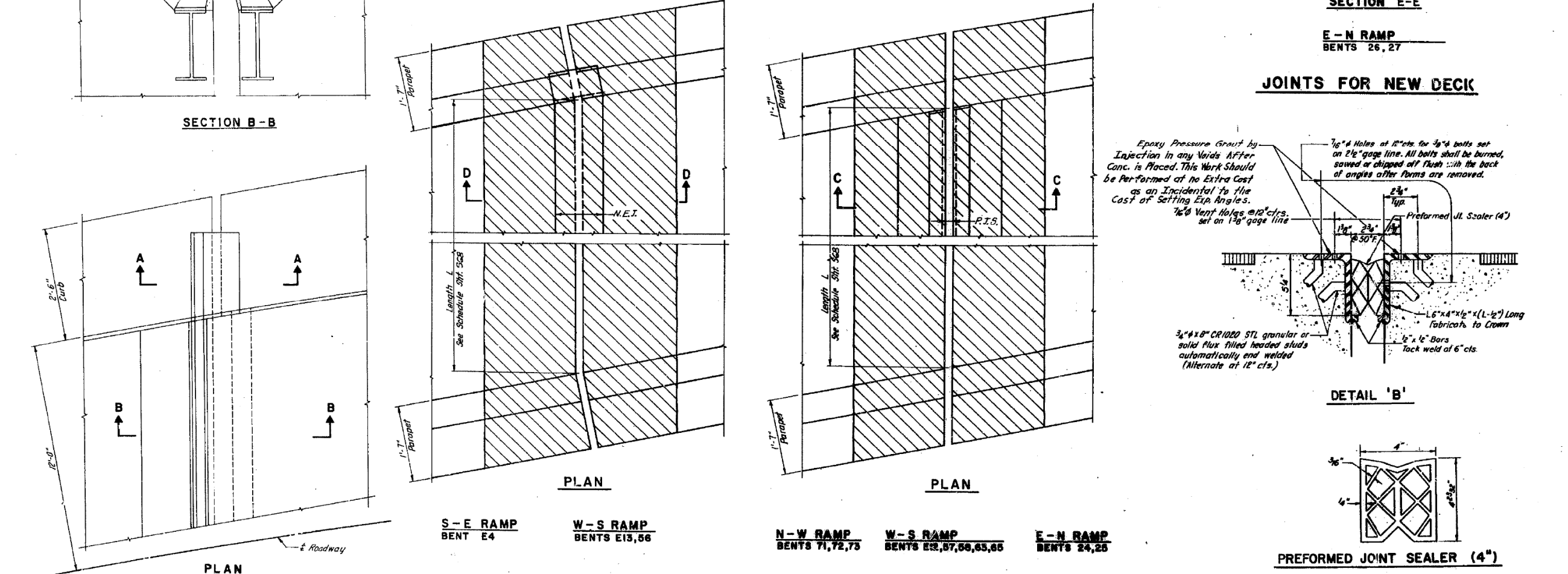
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1861
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	87
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT I-1X-94-3



EXISTING EXPANSION JOINT TYPE II

N - W RAMP
BENTS 71, 72, 73

W - S RAMP
BENTS E12, E13, 56, 57, 58, 63, 65

E - N RAMP
BENTS 24, 25, 26, 27

S - E RAMP
BENT E4

RECONSTRUCTION OF EXISTING JOINT TYPE II

S - E RAMP
BENT E4

W - S RAMP
BENTS E13, 56

N - W RAMP
BENTS 71, 72, 73

W - S RAMP
BENTS E2, 57, 58, 63, 65

E - N RAMP
BENTS 24, 25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
**RECONSTRUCTION OF EXPANSION
JOINTS TYPE II**

F.A.I. RT. 94 COUNTY SECTION 1975-117-R

ILLINOIS FED. AID PROJECT

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

FILE NAME: DWG:\161749-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\1000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing374



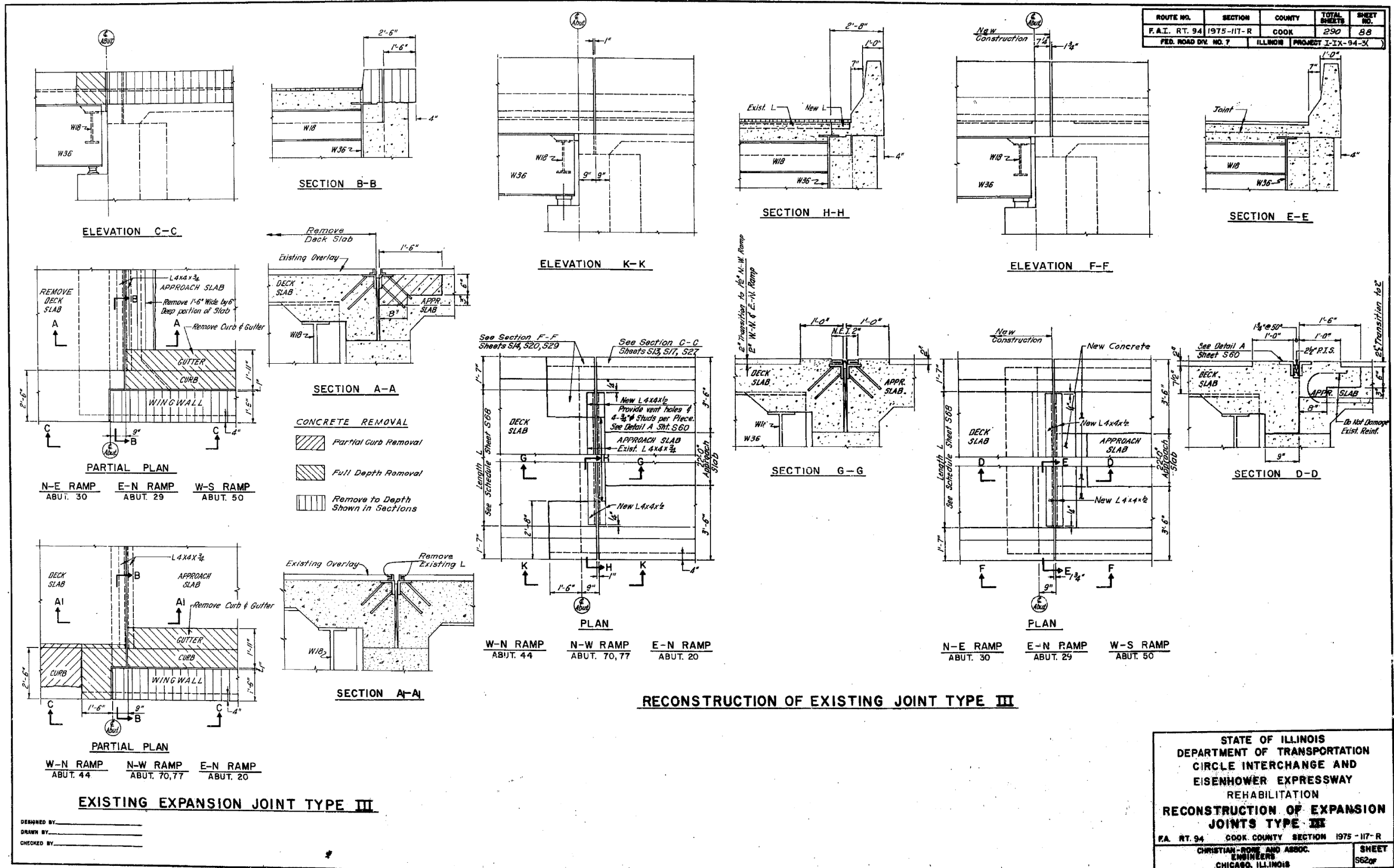
USER NAME =	ahmad,issa	DESIGNED -	REVISD -
PLOT SCALE =	N.T.S	CHECKED -	REVISD -
PLOT DATE =	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -
		MI, MAI	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1862
CONTRACT NO. 60X93				

FOR INFORMATION ONLY



FILE NAME: D:\V1617479-P\INT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Plans\33906-60X93-SXX-Existing375



USER NAME =	ahmad,issa	DESIGNED -	REVISD -
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PLOT DATE =	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -
		MI, MAI	

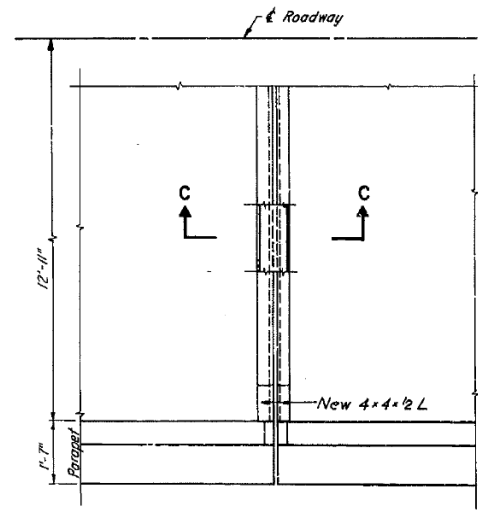
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

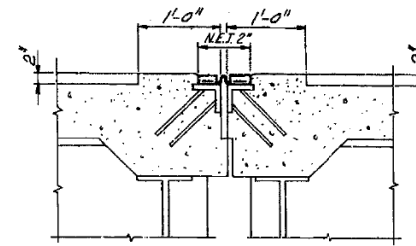
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90/94/290	2014-013R&B-R	COOK	1972	1863
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

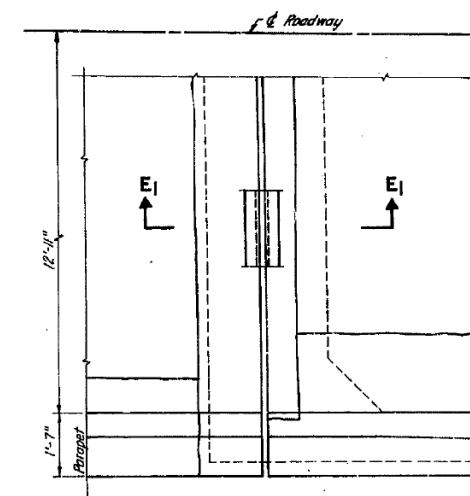
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F.A.I. RT. 94	1975-117-R	COOK	290	89
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-X		



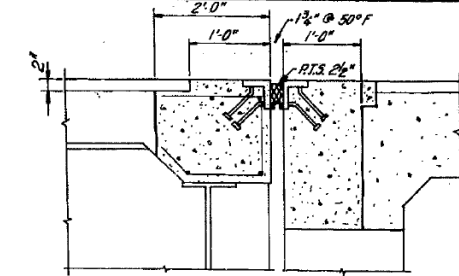
PLAN
Symmetrical About & Rdwy.
PROPOSED RECONSTRUCTION



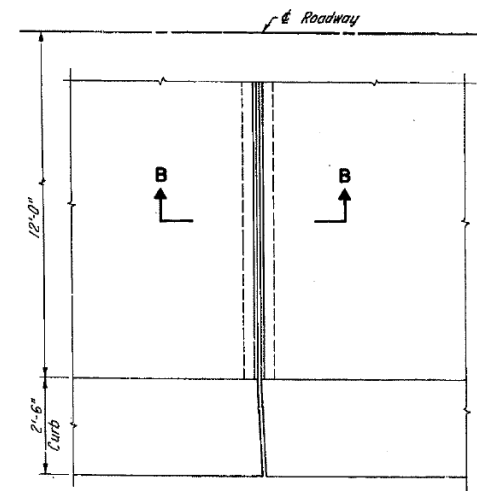
SECTION C-C



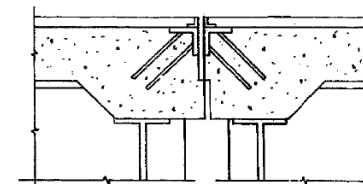
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Symmetrical About & Rdwy.
PROPOSED RECONSTRUCTION



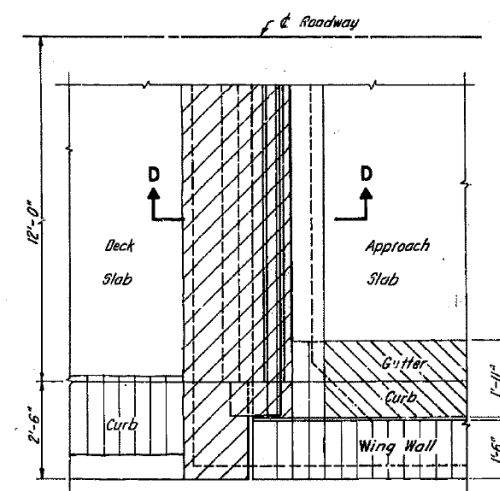
SECTION E1-E1



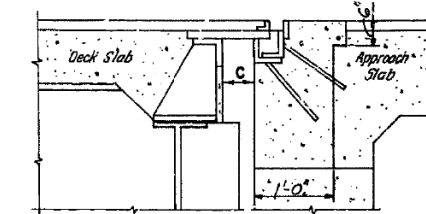
PLAN
Symmetrical About & Rdwy.
EXISTING EXPANSION JOINT TYPE IV





SECTION B-B



PLAN
Symmetrical about & Rdwy.
EXISTING EXPANSION JOINT TYPE V



SECTION D-D

CONCRETE REMOVAL
 Remove to Depth Shown on Sect E1-E1
 Remove to Depth Shown in Sections

**EXPANSION JOINT AT
W-S RAMP, BENT 66**

**EXPANSION JOINT AT
S-E RAMP, ABUT. 16**

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
**RECONSTRUCTION OF EXPANSION
JOINTS TYPE IV & TYPE V**
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
89 of 290

FILE NAME: D:\V1617479-PWINT-aecom\online\local\AECOM_DS02_NAY\Documents\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing376



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

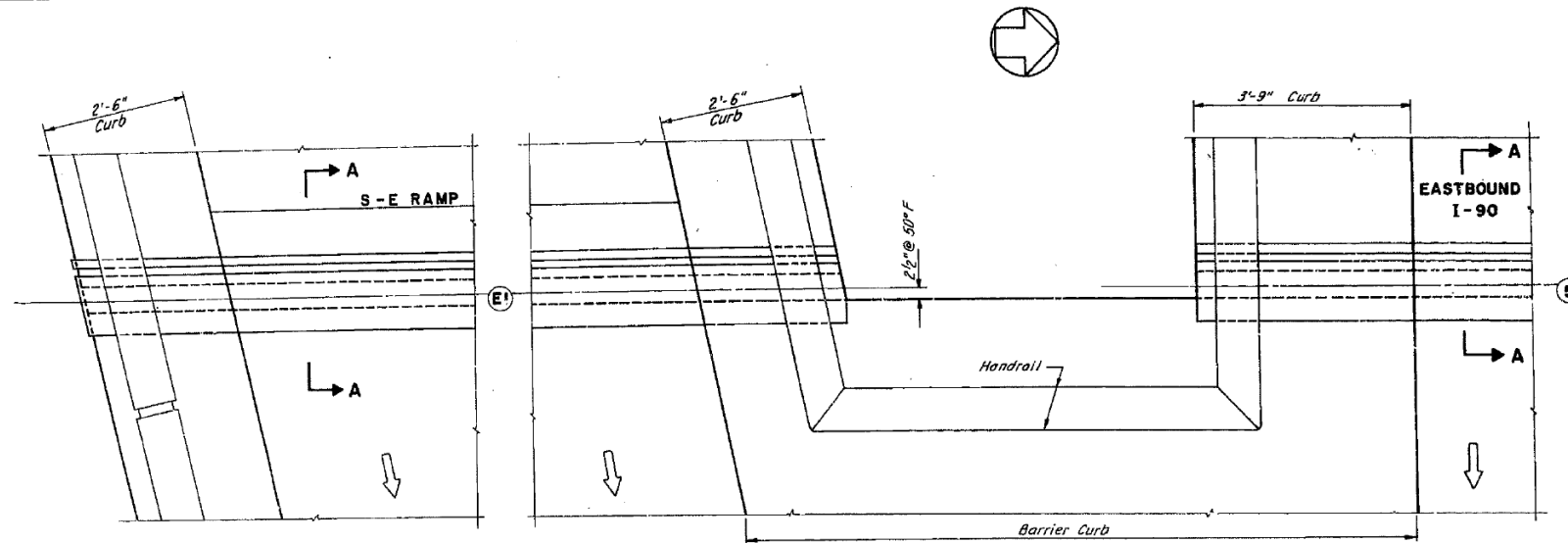
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1864
				CONTRACT NO. 60X93
				ILLINOIS FED. AID PROJECT

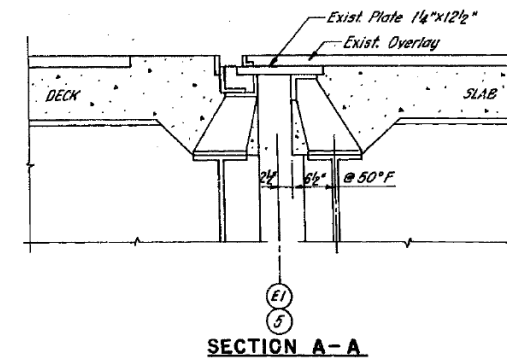
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-11-94-3()		

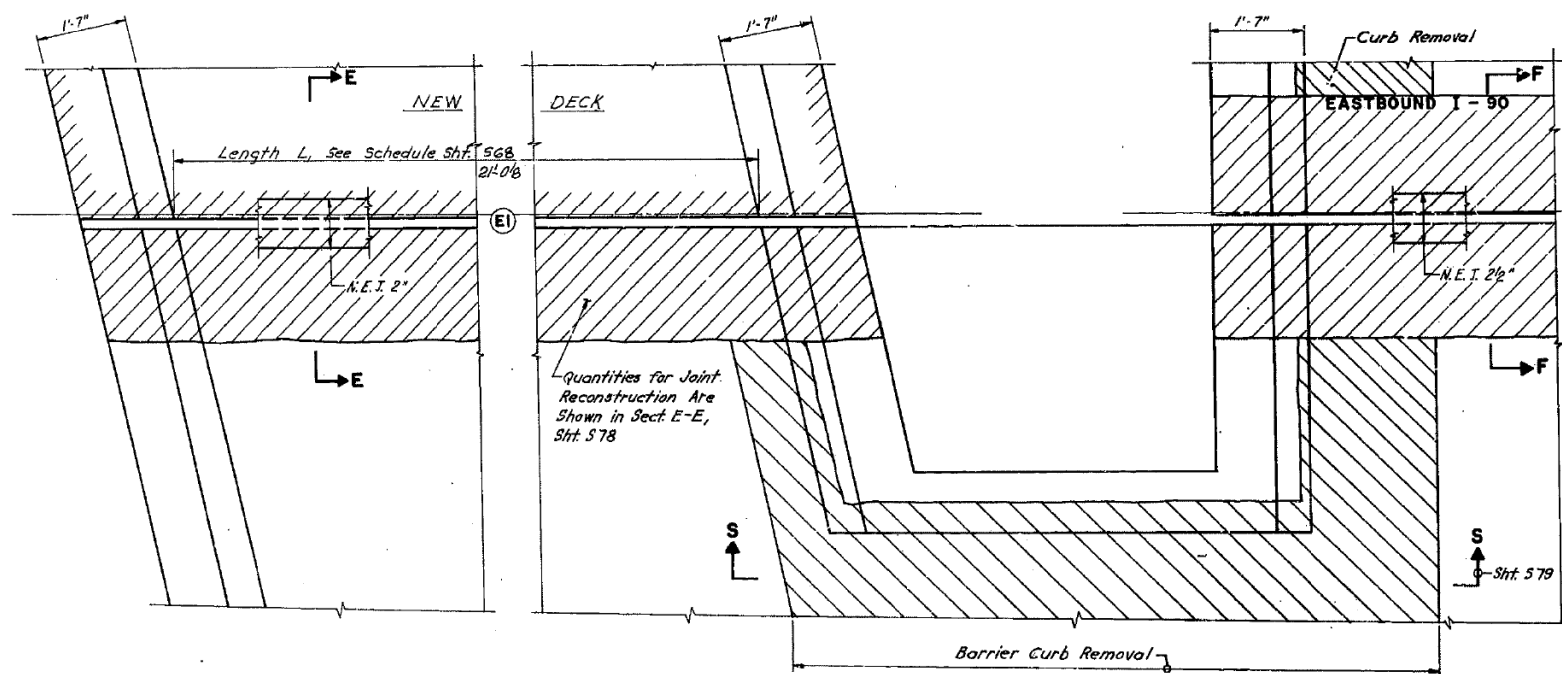


PLAN - EXISTING
S-E RAMP, BENT E1

PLAN - EXISTING
EASTBOUND I-90, BENT 5
WESTBOUND SIMILAR

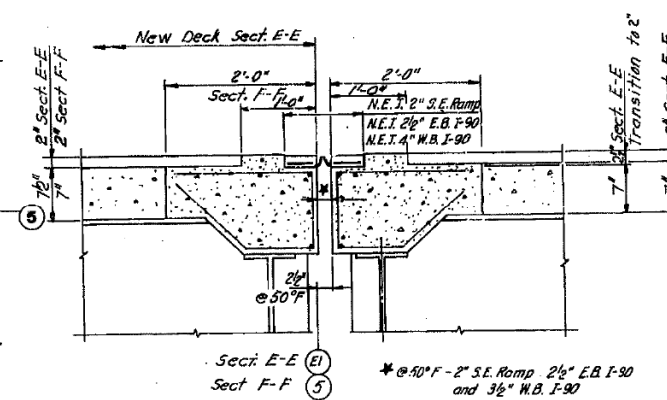


SECTION A-A



PLAN - PROPOSED
S-E RAMP, BENT E1

PLAN - PROPOSED
EASTBOUND I-90, BENT 5
WESTBOUND SIMILAR



SECTION E-E
SECTION F-F

CONCRETE REMOVAL

- Full Depth Removal
- Partial Depth Removal

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
JOINT DETAILS
AT BENT 5
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
56407

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

USER NAME =	ahmad,issa	DESIGNED -	REVISD -
PLOT SCALE =	N.T.S	CHECKED -	REVISD -
PLOT DATE =	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -
		MI, MAI	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

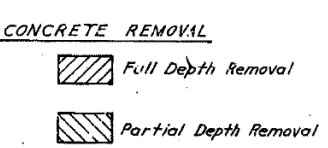
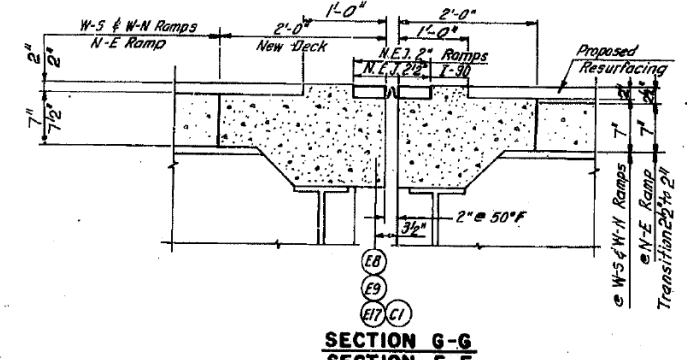
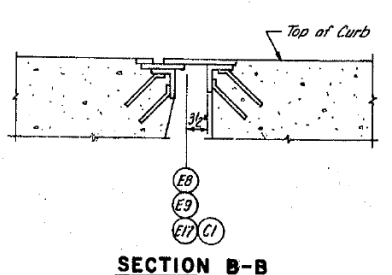
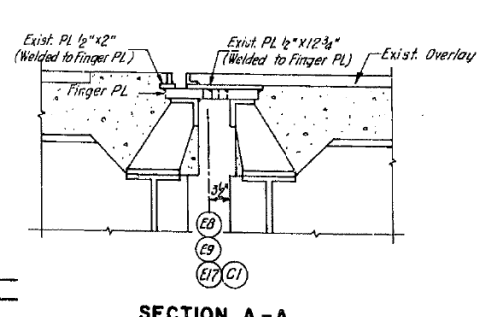
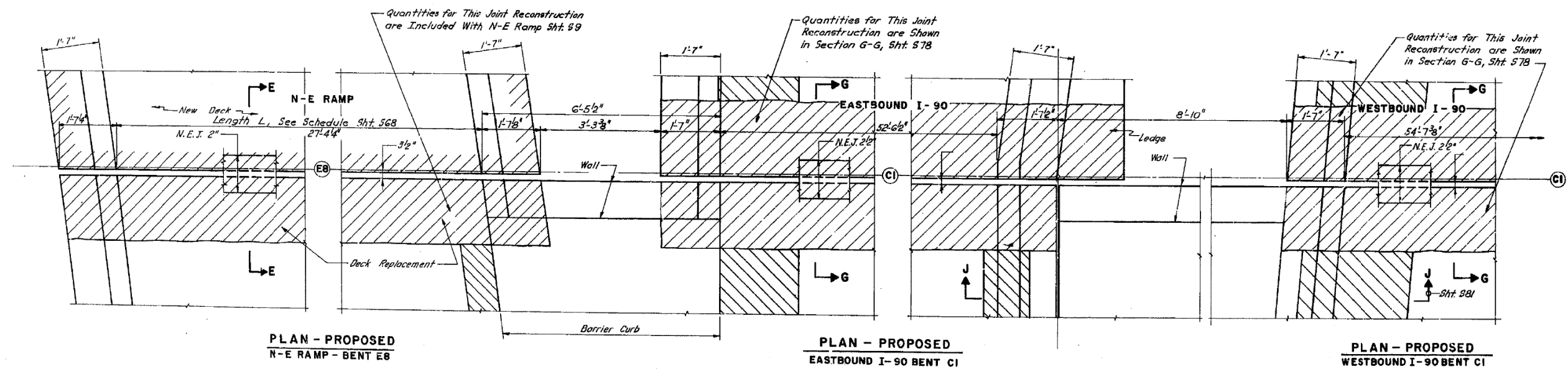
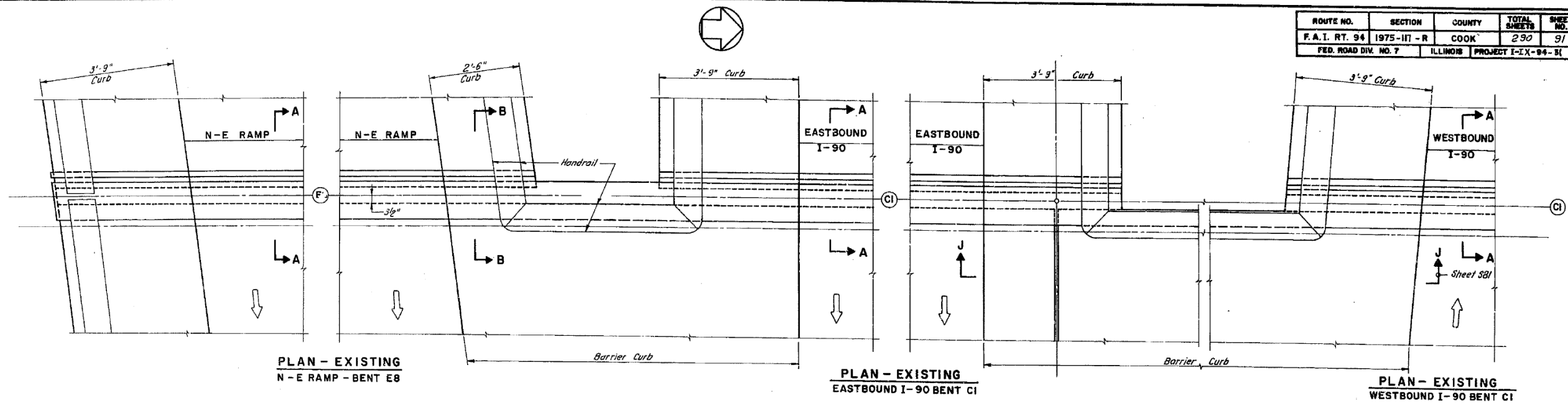
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1865
				CONTRACT NO. 60X93
				ILLINOIS FED. AID PROJECT

HBM
ENGINEERING GROUP, LLC

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	91
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-X-94-1		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
**JOINT DETAILS
AT BENT C1**
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROGE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
S65 OF

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

FILE NAME: D:\V1617479-PWINT-aecom\line\local\AECOM_DS02_MAY\Documents\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing378



USER NAME = ahmad,issa	DESIGNED -	REVISED -
PLOT SCALE = N.T.S	CHECKED -	REVISED -
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	CHECKED - MI, MAI	REVISED -

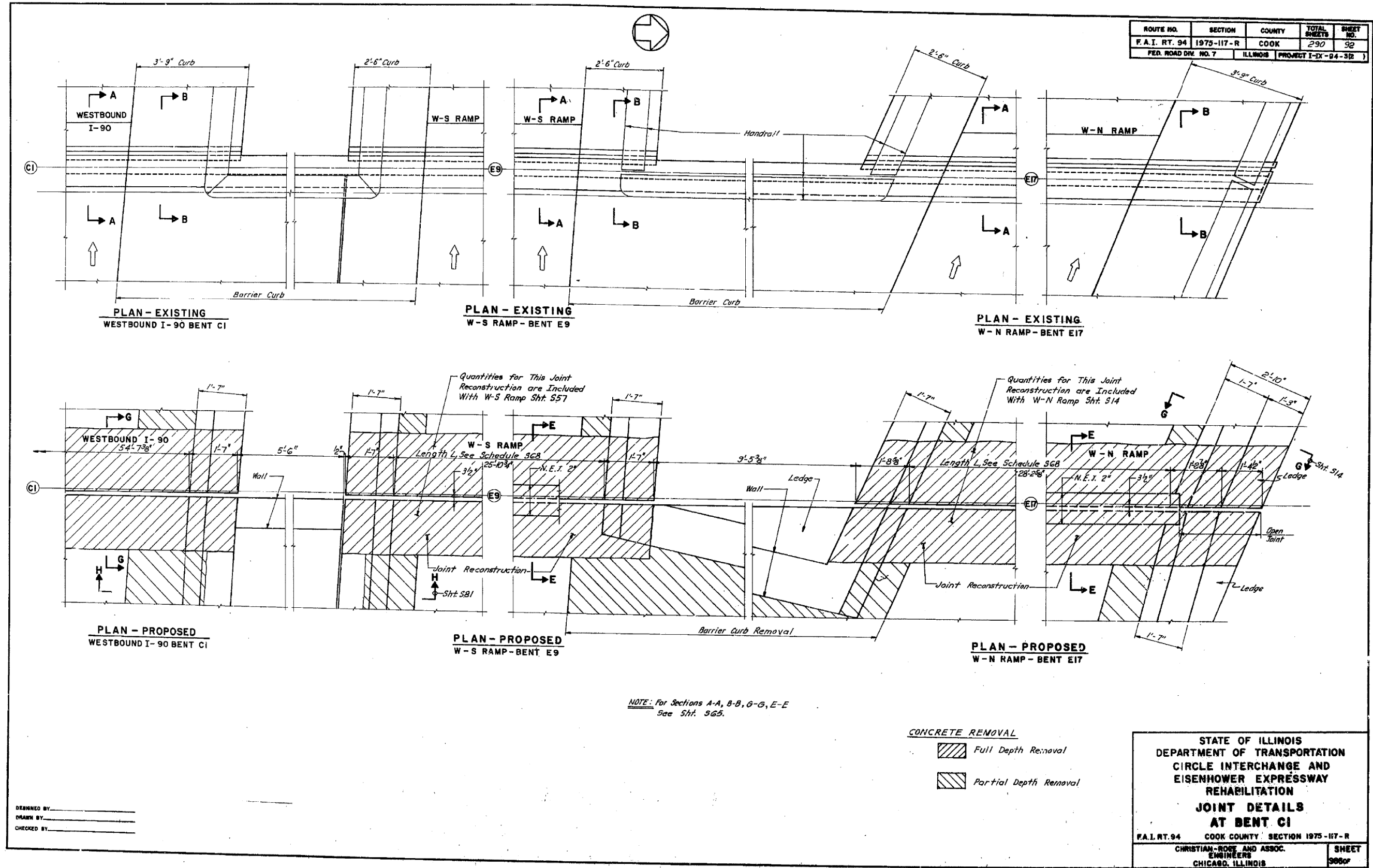
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1866
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	92
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT I-IX-04-52	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
**JOINT DETAILS
AT BENT CI**
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
386a

FILE NAME: D:\V61749-PWINT-aecomonline.local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing379



USER NAME = ahmad,issa	DESIGNED -	REVISED -
PLOT SCALE = N.T.S	CHECKED -	REVISED -
PLOT DATE = 7/26/2018	DRAWN - MI, MAI	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1867
ILLINOIS				FED. AID PROJECT

CONTRACT NO. 60X93

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	29
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-31		

ALTERNATE NEOPRENE EXPANSION JOINTS (2")

(See Special Provisions)

Model	Supplier	Blockout Dimensions
TRANSFLEX, MODEL 200A	General Tire Company	T=1 ³ / ₁₆ " A=1 ¹ / ₈ " B=3 ⁵ / ₁₆ "
WABOFLEX, MODEL SR 2	Watson Bowman Associates, Inc.	T=1 ³ / ₁₆ " A=1 ¹ / ₄ " B=3 ³ / ₁₆ "
FEL-SPAN, MODEL T-30 Set joint seal 1 ⁵ / ₈ " at 50°F	Fel-Pro Building Products Inc.	T=3 ³ / ₄ " A=2 ¹ / ₄ " B=2 ¹ / ₁₆ "
WABO ELASTODAM, TYPE 300 Set joint seal 1 ⁵ / ₈ " at 50°F	Watson Bowman Associates, Inc.	T=1 ³ / ₄ " A=2 ¹ / ₄ " B=2 ³ / ₁₆ "
WABO ALU-STRIP, TYPE III S 300 Set joint seal 1 ¹ / ₂ " at 50°F Permitted for 0° skew only	Watson Bowman Associates, Inc.	T=1 ³ / ₄ " A=1 ⁵ / ₈ " B=2 ³ / ₄ "
LOW PROFILE ONFLEX-25 Set joint seal 1 ¹ / ₂ " at 50°F Roadway bolt channel shall be filled with approved grout Permitted for up to 50° skew	Structural Accessories, Inc.	T=1 ³ / ₄ " A=1 ⁵ / ₈ " B=2 ³ / ₈ "

ALTERNATE NEOPRENE EXPANSION JOINTS (2 1/2")

(See Special Provisions)

Model	Supplier	Blockout Dimensions
TRANSFLEX, MODEL 250 Use 3/8" X 6" Anchor Bolts	General Tire Company	T=2 ¹ / ₁₆ " A=1 ¹ / ₂ " B=4 ¹ / ₄ "
WABOFLEX, MODEL SR 2.5 Use 3/8" X 6" Anchor Bolts	Watson Bowman Associates, Inc.	T=2 ¹ / ₁₆ " A=1 ¹ / ₂ " B=4 ¹ / ₄ "
FEL-SPAN, MODEL T-30 Set joint seal 1 ⁵ / ₈ " at 50°F	Fel-Pro Building Products Inc.	T=1 ³ / ₄ " A=2 ¹ / ₄ " B=2 ⁹ / ₁₆ "
WABO ELASTODAM, TYPE 300 Set joint seal 1 ⁵ / ₈ " at 50°F	Watson Bowman Associates, Inc.	T=1 ³ / ₄ " A=2 ¹ / ₄ " B=2 ⁹ / ₁₆ "
WABO ALU-STRIP, TYPE III S 300 Set joint seal 1 ¹ / ₂ " at 50°F Permitted for 0° skew only	Watson Bowman Associates, Inc.	T=1 ³ / ₄ " A=1 ⁵ / ₈ " B=2 ¹ / ₂ "
LOW PROFILE ONFLEX-25 Set joint seal 1 ¹ / ₂ " at 50°F Roadway bolt channel shall be filled with approved grout. Permitted for up to 50° skew	Structural Accessories, Inc.	T=1 ³ / ₄ " A=1 ⁵ / ₈ " B=2 ¹ / ₈ "

ALTERNATE NEOPRENE EXPANSION JOINTS (4")

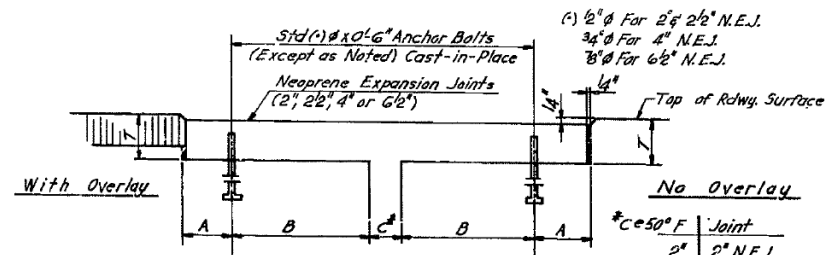
(See Special Provisions)

Model	Supplier	Blockout Dimensions
TRANSFLEX, MODEL 400 A	General Tire Company	T=2 ³ / ₈ " A=1 ³ / ₁₆ " B=8 ¹ / ₁₆ "
WABOFLEX, MODEL SR 4	Watson Bowman Associates, Inc.	T=2 ³ / ₈ " A=1 ³ / ₁₆ " B=8 ¹ / ₁₆ "
FEL-SPAN, MODEL T-40 Set joint seal 2 ¹ / ₈ " at 50°F Use 1/2" X 6" Anchor Bolts Max expansion length=300'	Fel-Pro Building Products Inc.	T=2 ³ / ₈ " A=2 ¹ / ₄ " B=2 ⁵ / ₁₆ "
WABO ELASTODAM, TYPE 400 Set joint seal 2 ¹ / ₈ " at 50°F Use 1/2" X 6" Anchor Bolts Max expansion length=300'	Watson Bowman Associates, Inc.	T=2 ³ / ₈ " A=2 ¹ / ₄ " B=2 ⁵ / ₁₆ "

ALTERNATE NEOPRENE EXPANSION JOINTS (6 1/2")

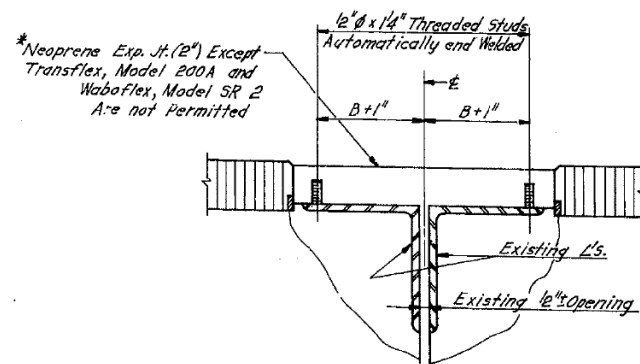
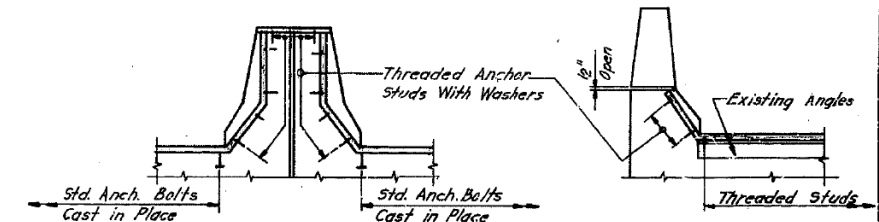
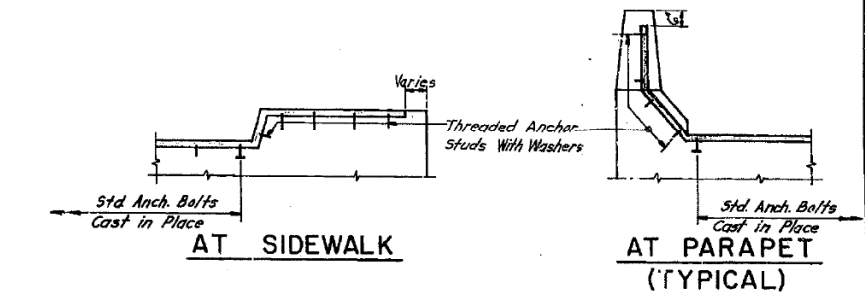
(See Special Provisions)

Model	Supplier	Blockout Dimensions
TRANSFLEX, MODEL 650	General Tire Company	T=3 ¹ / ₄ " A=2 ¹ / ₈ " B=9 ⁷ / ₈ "
WABOFLEX, MODEL SR 6.5 Use 3/4" X 6" Anchor Bolts	Watson Bowman Associates, Inc.	T=3 ¹ / ₄ " A=2 ¹ / ₈ " B=9 ⁷ / ₈ "



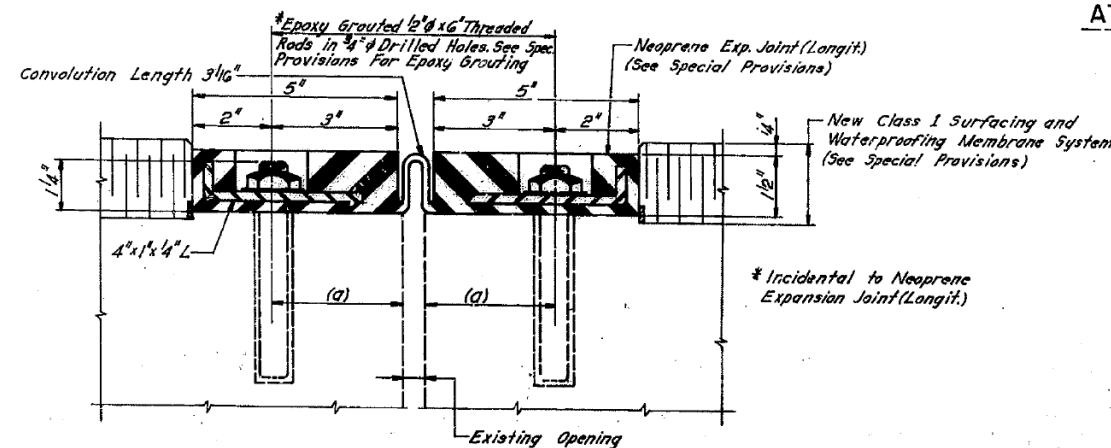
CROSS SECTION
Dimensions Are at Right Angles
(Typical With New Conc. Placement)

NOTE:
Joint Opening Shall be Adjusted in Accordance With Article 503.07(C) of the Standard Specifications, When the Deck is Poured at an Ambient Temperature Other Than 50°F.



CROSS SECTION
Dimensions Are at Right Angles
(Typical With Existing Angles)

* Transflex, Model 200A
Narrow Gage, May be Used.



METHOD TO RECONSTRUCT LONGITUDINAL JOINT
For Location See Chg. 580

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
EXPANSION JOINT DETAILS
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

USER NAME =	ahmad,issa	DESIGNED -	REVISD -
PLOT SCALE =	N.T.S	CHECKED -	REVISD -
PLOT DATE =	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1868
CONTRACT NO. 60X93				

FILE NAME: D:\1617479-PWINT-accomonline.local\AECOM_D502_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\60X93-SXX-Existing380

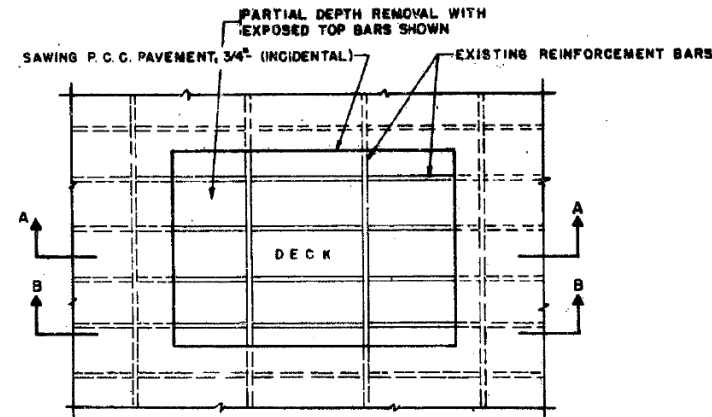
FOR INFORMATION ONLY

GENERAL REQUIREMENTS FOR DECK PATCHING

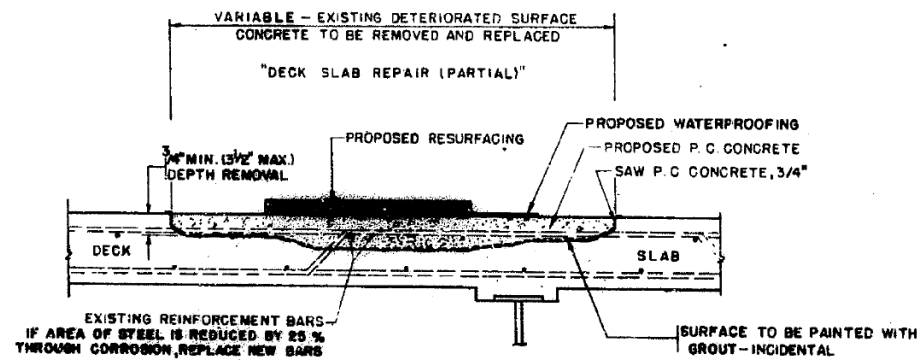
PARTIAL DEPTH PATCHING: PARTIAL DEPTH PATCHING SHALL BE APPLIED AT LOCATIONS ON THE DECK WHERE DEPTH OF PARTIAL IS $\frac{3}{8}$ " OR MORE BUT NOT EXCEEDING $3\frac{1}{2}$ ".

FULL DEPTH PATCHING: WHEN DEPTH OF DECK DETERIORATION EXCEEDS $3\frac{1}{2}$ ", FULL DEPTH REMOVAL AND REPLACEMENT OF THE DECK WILL BE REQUIRED.

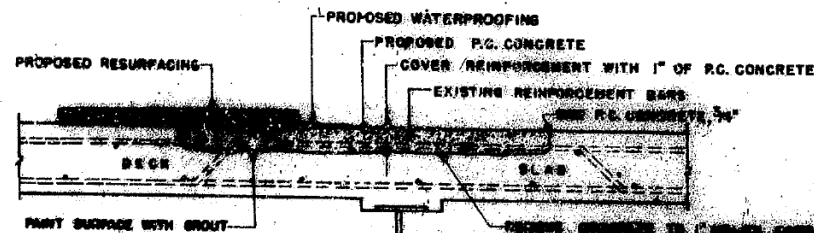
SEE SPECIAL PROVISIONS



PLAN OF DECK PATCHING



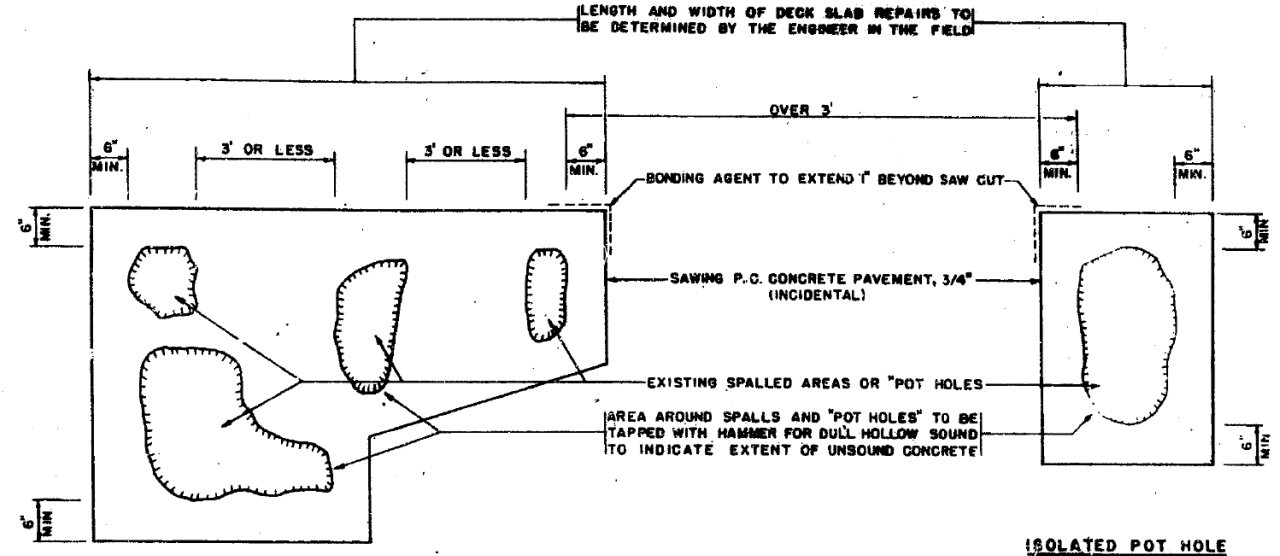
SECTION A-A
(PARTIAL DEPTH PATCHING)



SECTION B-B
(FULL DEPTH PATCHING)

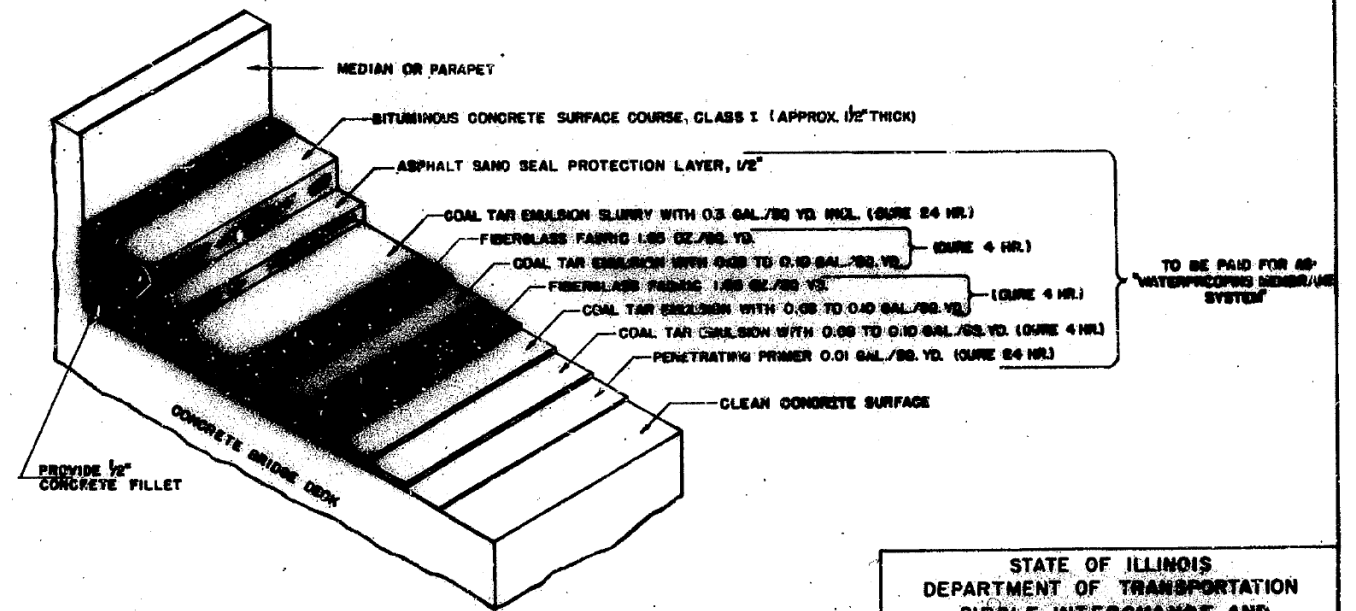
DESIGNED BY: _____
 DRAWN BY: _____
 CHECKED BY: _____

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. RT 94	1477-117-R	COOK	290	93A
FED. ROAD BY NO. 7	ILLINOIS	PROJECT		



MULTIPLE POT HOLES

PLAN OF DECK SLAB REPAIRS



DETAIL OF DECK WATERPROOFING MEMBRANE SYSTEM

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
 STANDARD DETAIL
 OF
 DECK SLAB REPAIRS
 F.A.S. RT 94 AND CIRCLE INTERCHANGE 1477-117-R

FILE NAME: D:\V161749-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing381

FOR INFORMATION ONLY

EXPANSION JOINT SCHEDULE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.R.T. 94	1975-117-R	COOK	290	94
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3		

CIRCLE INTERCHANGE	W-N RAMP	REHABILITATED DECK	BENT	SKEW ANGLE	PROPOSED		REMARKS
					LENGTH	TYPE	
CIRCLE INTERCHANGE	N-E RAMP	NEW DECK	(Abut.) 30	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 562
			31	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560
			32	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560
			E 8	0°-5'	27'-4 1/4"	N.E.J. 2"	See Sht. 565
	W-N RAMP	REHABILITATED DECK	E 17	23°-45'	28'-2 3/8"	N.E.J. 2"	See Sht. 566
			40	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560
			41	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560
			42	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560
			43	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560
	(Abut.) 44	0°	25'-1 1/2"	N.E.J. 2"	See Sht. 562		
	N-W RAMP	REHABILITATED DECK	(Abut.) 70	0°	25'-10"	N.E.J. 2"	See Sht. 562
			71	0°-30'	25'-10 1/4"	P.J.S. 4"	See Sht. 561
72			0°-30'	26'-2"	P.J.S. 2 1/2"	See Sht. 561	
73			27°-59'	29'-0"	P.J.S. 2 1/2"	See Sht. 561	
74			39°-21'	34'-1"	N.E.J. 2"	See Sht. 520	
75			0°	25'-10"	N.E.J. 2"	See Sht. 520	
76			0°	25'-10"	N.E.J. 2"	See Sht. 560	
(Abut.) 77	0°	25'-10"	N.E.J. 2"	See Sht. 562			
E-W RAMP	NEW DECK/REHABILITATED DECK	(Abut.) 20	0°	25'-10"	N.E.J. 2"	See Sht. 562	
		21	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560	
		22	0°	25'-10"	N.E.J. 2"	See Sht. 529	
		23	27°-59'	28'-4 1/4"	N.E.J. 2"	See Sht. 529	
		24	13°-10'	26'-7 1/4"	P.J.S. 2 1/2"	See Sht. 561	
		25	0°-23'	25'-10 1/4"	P.J.S. 2 1/2"	See Sht. 561	
		26	0°-20'	26'-0 1/4"	P.J.S. 2 1/2"	See Sht. 561	
		27	6°-56'	26'-0 1/4"	P.J.S. 4"	See Sht. 561	
		28	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560	
		(Abut.) 29	0°	25'-8 1/2"	P.J.S. 2 1/2"	See Sht. 562	

EISENHOWER EXPY. CANAL STREET RAMPS & APPROACH STRUCT.	REHABILITATED DECK	BENT	SKEW ANGLE	PROPOSED		REMARKS
				LENGTH	TYPE	
EISENHOWER EXPY. CANAL STREET RAMPS & APPROACH STRUCT.	REHABILITATED DECK	N 14N	0°	18'-6"	P.J.S. 2 1/2"	See Sht. 5127
		S 14S	0°	18'-6"	P.J.S. 2 1/2"	See Sht. 5127
		14 AN	0°	26'-6"	P.J.S. 2 1/2"	See Sht. 5127
		14 AS	0°	26'-6"	P.J.S. 2 1/2"	See Sht. 5127
		AN	0°	39'-0"	P.J.S. 2 1/2"	See Sht. 5127
		AS	0°	39'-0"	P.J.S. 2 1/2"	See Sht. 5127

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

CIRCLE INTERCHANGE	S-E RAMP	REHABILITATED DECK	BENT	SKEW ANGLE	PROPOSED		REMARKS
					LENGTH	TYPE	
CIRCLE INTERCHANGE	S-E RAMP	REHABILITATED DECK	E 1	12°-20'	21'-0 1/8"	N.E.J. 2"	See Sht. 564
			9	0°	21'-4 1/2"	P.J.S. 2 1/2"	See Sht. 560
			10	0°	22'-10 1/8"	P.J.S. 2 1/2"	See Sht. 560
			11	0°	23'-4 1/4"	P.J.S. 2 1/2"	See Sht. 560
			12	0°	24'-11 1/4"	P.J.S. 2 1/2"	See Sht. 560
			13	0°	25'-9 1/8"	P.J.S. 2 1/2"	See Sht. 560
			14	0°	25'-10"	N.E.J. 2"	See Sht. 560
			15	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560
			E 2	0°	25'-9 1/2"	N.E.J. 2"	See Sht. 540
			E 3	46°-07'	37'-2 1/4"	N.E.J. 2"	See Sht. 540
			E 4	25°-30'	28'-4 1/2"	N.E.J. 2 1/2"	See Sht. 561
			E 5	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560
E 6	20°-2'	27'-1"	N.E.J. 2"	See Sht. 540			
E 7	0°	25'-10"	N.E.J. 2"	See Sht. 540			
(Abut.) 16	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 541 & 563			
CIRCLE INTERCHANGE	W-S RAMP	REHABILITATED DECK	(Abut.) 50	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 562
			E 16	0°	25'-10"	N.E.J. 2"	See Sht. 560
			E 15	3°-16'	25'-7 3/4"	N.E.J. 2"	See Sht. 556
			E 14	30°-18'	28'-8 1/4"	N.E.J. 2"	See Sht. 556
			E 13	14°-58'	26'-8 1/4"	N.E.J. 2"	See Sht. 561
			E 12	3°-50'	25'-10 1/4"	P.J.S. 2 1/2"	See Sht. 561
			E 11	18°-42'	25'-11 1/4"	N.E.J. 2"	See Sht. 556
			E 10	0°	25'-9 1/2"	N.E.J. 2"	See Sht. 556
			51	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560
			52	0°	25'-10"	N.E.J. 2"	See Sht. 560
			53	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560
			54	0°	25'-10"	N.E.J. 2"	See Sht. 556
55	48°-26'	38'-8 1/4"	N.E.J. 2"	See Sht. 556			
56	36°-21'	31'-6"	N.E.J. 2"	See Sht. 561			
57	11°-0'	28'-3 1/2"	P.J.S. 2 1/2"	See Sht. 561			
58	31°-52'	30'-0 1/4"	P.J.S. 2 1/2"	See Sht. 561			
59	48°-45'	38'-11 1/4"	N.E.J. 2"	See Sht. 557			
60	0°	25'-10"	N.E.J. 2"	See Sht. 557			
61	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560			
63	15°-43'	26'-3 1/2"	P.J.S. 4"	See Sht. 561			
64	0°	25'-10"	P.J.S. 2 1/2"	See Sht. 560			
65	18°-5'	27'-4 1/4"	P.J.S. 2 1/2"	See Sht. 551			
66	2°-47'	25'-10 1/4"	N.E.J. 2"	See Sht. 563			
E 9	2°-47'	25'-10 1/4"	N.E.J. 2"	See Sht. 566			
HARRISON STREET PIER			70'-0"	P.J.S. 2 1/2"	See Sht. 5136 A		

EISENHOWER EXPRESSWAY	VIADUCT	REHABILITATED DECK	BENT	SKEW ANGLE	PROPOSED		REMARKS			
					LENGTH	TYPE				
EISENHOWER EXPRESSWAY	VIADUCT	REHABILITATED DECK	(Abut.) 1	W.B.	9°-40'	55'-0"	N.E.J. 2"	See Sht. 577		
			E.B.	2°-30'	54'-4"	N.E.J. 2"	See Sht. 577			
			2	W.B.	9°-40'	55'-0"	N.E.J. 2"	See Sht. 577		
			E.B.	2°-30'	54'-4"	N.E.J. 2"	See Sht. 577			
			5	W.B.	7°	54'-8"	N.E.J. 4"	See Sht. 578		
			E.B.	0°	54'-4"	N.E.J. 2 1/2"	See Sht. 578			
			C1	W.B.	54'-7 3/8"	N.E.J. 2 1/2"	See Sht. 565 & 578			
			E.B.	0°	52'-6 1/2"	N.E.J. 2 1/2"	See Sht. 565 & 578			
			C4	W.B.	82'-6"	N.E.J. 4"	See Sht. 590			
			E.B.	0°	77'-9"	N.E.J. 4"	See Sht. 590			
			C9	W.B.	0°	77'-9"	N.E.J. 0 1/2"	See Sht. 590		
			E.B.	0°	77'-9"	N.E.J. 0 1/2"	See Sht. 590			
C12	W.B.	0°	55'-0" - 1-90 18'-3" Ramp	N.E.J. 0 1/2"	See Sht. 597					
E.B.	0°	53'-0" - 1-90 18'-3" Ramp	N.E.J. 0 1/2"	See Sht. 597						
C17	W.B.	0°	38'-6"	N.E.J. 4"	See Sht. 5120					
E.B.	0°	38'-6"	N.E.J. 4"	See Sht. 5120						
NO EXPANSION JOINTS										
EISENHOWER EXPRESSWAY	VIADUCT	REHABILITATED DECK	D	W.B.	0°	38'-6"	N.E.J. 2"	See Sht. 5122		
			E.B.	0°	38'-6"	N.E.J. 2"	See Sht. 5122			
			F	W.B.				Deflection Joint Clean & Seal See Sht. 5132		
			E.B.				Deflection Joint Clean & Seal See Sht. 5132			
			G	W.B.	0°	50'-3"	N.E.J. 2 1/2"	See Sht. 5132		
			E.B.	0°	50'-3"	N.E.J. 2 1/2"	See Sht. 5132			
			J	W.B.				Deflection Joint Clean & Seal See Sht. 5132		
			E.B.					Deflection Joint Clean & Seal See Sht. 5132		
			K	W.B.				See Bascule Bridge Plans		
			E.B.					See Bascule Bridge Plans		
			SEE BASCULE BRIDGE PLANS							
			WELLS ST. PLAZA STRUCT.	REHABILITATED DECK	A	W.B.	No Joint Between These Two Bridges			
E.B.	No Joint Between These Two Bridges									
C	W.B.	19°-18'			45'-5"	N.E.J. 4"	See Sht. 5135			
E.B.	19°-18'	45'-9"			N.E.J. 4"	Do Not Use Pel-Span & Wabo Llastadorn Jts.				
E	W.B.	0°			43'-0"	N.E.J. 2"	See Sht. 5135			
E.B.	0°	43'-0"			N.E.J. 2"	See Sht. 5135				
F	W.B.	0°	43'-0"	N.E.J. 2"	See Sht. 5135					
E.B.	0°	43'-0"	N.E.J. 2"	See Sht. 5135						

NOTES:
Lengths Shown in Schedule is Length "L", Shown in Joint Detail Plans on Sheets 560 to 566.
N.E.J., 2" Longit. Expansion Joint. At Bent C2 to C4, See Sht. 580.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
EXPANSION JOINT SCHEDULE

F.A.I.R.T. 94 COOK COUNTY SECTION 1975-87-R
CHRISTIAN-ROBE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
868r

FILE NAME: D:\1617479-PWINT-aecom\online\local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_1\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing382



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1870
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

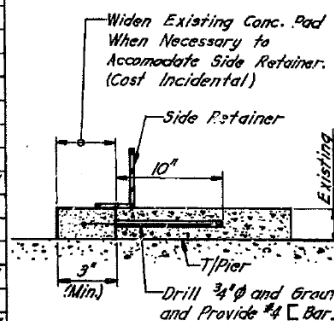
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 94	1575-117-R	COOK	290	95
FED. ROAD DK. NO. 7	ILLINOIS	PROJECT 1-1X-94-3		

EXPANSION BEARING SCHEDULE

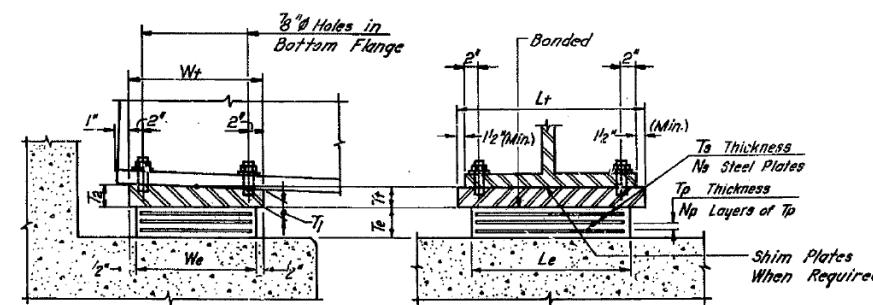
LOCATION	ELASTOMERIC EXPANSION BEARING TYPE I									TOP PLATE						
	BENT	GIRDER	W _o	L _e	SERIES	T _p	N _p	T _s	N _s	T _e	T ₁	W ₁	L ₁	SLOPE	T ₁	T ₂
N - E RAMP	31	1	9"	12"	a	3 ⁸ "	5	3 ³² "	4	2 ⁴ "	2 ¹⁵ / ₁₆ "	10"	15"	5.8%	2 ⁵ / ₈ "	3 ³ / ₄ "
		2									2 ⁷ / ₈ "		15"	5.9%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		3									2 ⁷ / ₈ "		15"	6.1%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		4									2 ⁷ / ₈ "		15"	6.2%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		5									2 ¹⁵ / ₁₆ "		15"	6.4%	2 ⁵ / ₈ "	3 ³ / ₄ "
	32	1	9"	12"	a	3 ⁸ "	5	3 ³² "	4	2 ⁴ "	2 ⁷ / ₈ "	10"	15"	5.7%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		2									2 ⁷ / ₈ "		15"	5.8%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		3									2 ⁷ / ₈ "		15"	6.0%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		4									2 ⁷ / ₈ "		15"	6.1%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		5									2 ¹⁵ / ₁₆ "		15"	6.2%	2 ⁵ / ₈ "	3 ³ / ₄ "
	E 8	1	9"	12"	a	3 ⁸ "	5	3 ³² "	4	2 ⁴ "	2 ⁷ / ₈ "	10"	15"	5.5%	2 ⁵ / ₈ "	3 ³ / ₄ "
		2									2 ⁷ / ₈ "		15"	5.8%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		3									2 ⁷ / ₈ "		15"	6.3%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		4									2 ¹⁵ / ₁₆ "		15"	6.7%	2 ⁵ / ₈ "	3 ³ / ₄ "
		5									2 ¹⁵ / ₁₆ "		15"	6.8%	2 ⁵ / ₈ "	3 ³ / ₄ "
5A										2 ⁷ / ₁₆ "		15"	0%	2 ⁵ / ₈ "	2 ⁵ / ₁₆ "	
W - N RAMP	E17	1	9"	12"	a	3 ⁸ "	5	3 ³² "	4	2 ⁴ "	2 ¹⁵ / ₁₆ "	10"	15"	4.0%	2 ¹ / ₁₆ "	3 ³ / ₁₆ "
		2									2 ¹⁵ / ₁₆ "		15 ⁸ / ₁₆ "	4.4%	2 ¹ / ₁₆ "	3 ³ / ₁₆ "
		3									2 ⁷ / ₈ "		15"	4.7%	2 ⁵ / ₈ "	3 ³ / ₄ "
		4									2 ¹⁵ / ₁₆ "		15"	5.1%	2 ¹ / ₁₆ "	3 ³ / ₁₆ "
		5									2 ⁷ / ₈ "		15"	5.5%	2 ⁵ / ₈ "	3 ³ / ₄ "
	40	1	9"	12"	a	3 ⁸ "	5	3 ³² "	4	2 ⁴ "	2 ⁷ / ₈ "	10"	15"	6.7%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		2									2 ¹⁵ / ₁₆ "		15"	6.8%	2 ⁵ / ₈ "	3 ³ / ₄ "
		3									2 ¹⁵ / ₁₆ "		15"	6.9%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		4									2 ¹⁵ / ₁₆ "		15"	7.0%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		5									2 ¹⁵ / ₁₆ "		15"	7.1%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
	41	1	9"	12"	a	3 ⁸ "	5	3 ³² "	4	2 ⁴ "	2 ⁷ / ₈ "	10"	15"	6.8%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		2									2 ⁷ / ₈ "		15"	7.0%	2 ¹ / ₁₆ "	3 ³ / ₄ "
		3									2 ⁷ / ₈ "		15"	7.1%	2 ¹ / ₁₆ "	3 ³ / ₄ "
		4									2 ⁷ / ₈ "		15"	7.2%	2 ¹ / ₁₆ "	3 ³ / ₄ "
		5									2 ⁷ / ₈ "		15"	7.4%	2 ⁵ / ₈ "	3 ³ / ₄ "
	42	1	7"	12"	a	3 ⁸ "	3	3 ³² "	2	1 ⁵ / ₁₆ "	3 ⁷ / ₈ "	8"	15"	7.0%	3 ⁵ / ₈ "	4 ³ / ₈ "
		2									3 ⁷ / ₈ "		15"	7.1%	3 ⁹ / ₁₆ "	4 ³ / ₁₆ "
		3									3 ⁷ / ₈ "		15"	7.1%	3 ⁹ / ₁₆ "	4 ³ / ₁₆ "
		4									3 ⁷ / ₈ "		15"	7.2%	3 ⁹ / ₁₆ "	4 ³ / ₁₆ "
		5									3 ⁷ / ₈ "		15"	7.2%	3 ⁹ / ₁₆ "	4 ³ / ₁₆ "
43	1	7"	12"	a	3 ⁸ "	3	3 ³² "	2	1 ⁵ / ₁₆ "	3 ¹³ / ₁₆ "	8"	15"	7.1%	3 ¹ / ₂ "	4 ³ / ₈ "	
	2									3 ¹³ / ₁₆ "		15"	7.1%	3 ¹ / ₂ "	4 ³ / ₈ "	
	3									3 ¹³ / ₁₆ "		15"	7.2%	3 ¹ / ₂ "	4 ³ / ₈ "	
	4									3 ¹³ / ₁₆ "		15"	7.2%	3 ¹ / ₂ "	4 ³ / ₈ "	
	5									3 ¹³ / ₁₆ "		15"	7.3%	3 ¹ / ₂ "	4 ³ / ₈ "	

LOCATION	ELASTOMERIC EXPANSION BEARING TYPE I									TOP PLATE						
	BENT	GIRDER	W _o	L _e	SERIES	T _p	N _p	T _s	N _s	T _e	T ₁	W ₁	L ₁	SLOPE	T ₁	T ₂
N - W RAMP	71W	1	9"	12"	a	3 ⁸ "	5	3 ³² "	4	2 ⁴ "	2 ⁷ / ₈ "	10"	15"	3.8%	2 ¹ / ₁₆ "	3 ³ / ₁₆ "
		2									2 ⁷ / ₈ "		15 ⁸ / ₁₆ "	3.9%	2 ¹ / ₁₆ "	3 ³ / ₁₆ "
		3									2 ⁷ / ₈ "		15 ⁸ / ₁₆ "	4.0%	2 ¹ / ₁₆ "	3 ³ / ₁₆ "
		4									2 ⁷ / ₈ "		15 ⁸ / ₁₆ "	4.0%	2 ¹ / ₁₆ "	3 ³ / ₁₆ "
		5									2 ⁷ / ₈ "		15 ⁸ / ₁₆ "	4.1%	2 ¹ / ₁₆ "	3 ³ / ₁₆ "
	71E	1	9"	12"	a	3 ⁸ "	5	3 ³² "	4	2 ⁴ "	2 ⁷ / ₈ "	10"	15 ⁸ / ₁₆ "	6.6%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		2									2 ⁷ / ₈ "		15"	6.7%	2 ⁹ / ₁₆ "	3 ³ / ₁₆ "
		3									2 ⁷ / ₈ "		15"	6.9%	2 ¹ / ₁₆ "	3 ³ / ₄ "
		4									2 ⁷ / ₈ "		15"	7.0%	2 ¹ / ₁₆ "	3 ³ / ₄ "
		5									2 ⁷ / ₈ "		15"	7.1%	2 ¹ / ₁₆ "	3 ³ / ₄ "
	72	1	10"	14"	a	7 ¹⁶ "	5	1 ⁸ "	4	2 ¹¹ / ₁₆ "	2 ⁷ / ₈ "	11"	19 ¹² / ₁₆ "	0.1%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "
		2									2 ⁷ / ₈ "		19 ¹² / ₁₆ "	0.0%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "
		3									2 ⁷ / ₈ "		19 ¹² / ₁₆ "	0.1%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "
		4									2 ⁷ / ₈ "		19 ¹² / ₁₆ "	0.2%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "
		5									2 ⁷ / ₈ "		19 ¹² / ₁₆ "	0.3%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "
73	1	10"	14"	a	7 ¹⁶ "	5	1 ⁸ "	4	2 ¹¹ / ₁₆ "	2 ⁷ / ₈ "	11"	19 ¹² / ₁₆ "	4.1%	2 ³ / ₁₆ "	2 ¹ / ₁₆ "	
	2									2 ⁷ / ₈ "		16"	4.3%	2 ³ / ₁₆ "	2 ¹ / ₁₆ "	
	3									2 ⁷ / ₈ "		16"	4.6%	2 ³ / ₁₆ "	2 ¹ / ₁₆ "	
	4									2 ⁷ / ₈ "		16"	4.8%	2 ³ / ₁₆ "	2 ¹ / ₁₆ "	
	5									2 ⁷ / ₈ "		19 ¹² / ₁₆ "	5.0%	2 ³ / ₁₆ "	2 ¹ / ₁₆ "	
76W	1	10"	14"	a	7 ¹⁶ "	5	1 ⁸ "	4	2 ¹¹ / ₁₆ "	2 ⁷ / ₈ "	11"	19 ¹² / ₁₆ "	6.3%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "	
	2									2 ⁷ / ₈ "		16"	6.4%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "	
	3									2 ⁷ / ₈ "		16"	6.5%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "	
	4									2 ⁷ / ₈ "		16"	6.6%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "	
	5									2 ⁷ / ₈ "		16"	6.8%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "	
76E	1	10"	14"	a	7 ¹⁶ "	5	1 ⁸ "	4	2 ¹¹ / ₁₆ "	2 ⁷ / ₈ "	11"	19 ¹² / ₁₆ "	6.3%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "	
	2									2 ⁷ / ₈ "		16"	6.4%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "	
	3									2 ⁷ / ₈ "		16"	6.5%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "	
	4									2 ⁷ / ₈ "		16"	6.7%	2 ¹ / ₁₆ "	2 ¹ / ₁₆ "	
	5									2 ⁷ / ₈ "		16"	6.8%	3 ¹ / ₁₆ "	4 ¹ / ₁₆ "	



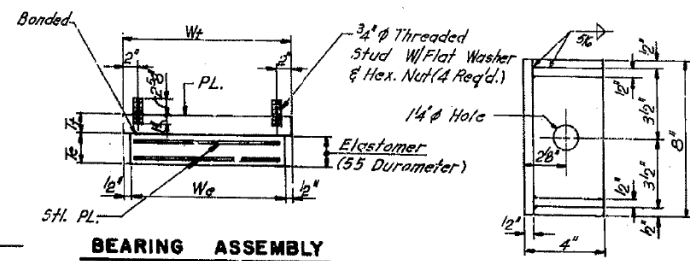
WIDENING OF EXISTING CONCRETE PAD

NOTE:
The Contractor Shall Verify Slope of Existing Beams and Thickness From Top of Concrete Pad to Bottom of Steel Beams, Before Ordering of Bearing.



TYPE I ELASTOMERIC EXPANSION BEARING

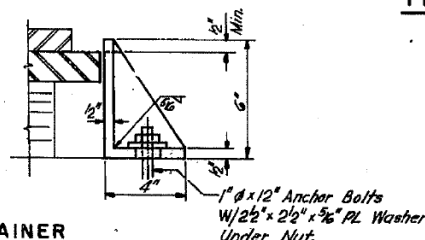
NOTE:
After New Bearings Are Installed, Holes Shall be Drilled in the Substructure and Anchor Bolts Shall be Grouted in Place. Provide One Side Retainer at Each Inside Face of Exterior Beam Only. (Cost Shall be Incidental.)



BEARING ASSEMBLY

NOTE:
Shim Plates Shall not be Placed Under Bearing Assembly

SIDE RETAINER



DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
EXPANSION BEARING SCHEDULE
F.A.I. RT. 94 COOK COUNTY SECTION 1575 - 117-R
CHRISTIAN-ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS SHEET
669F

FOR INFORMATION ONLY

EXPANSION BEARING SCHEDULE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-HT-R	COOK	290	96
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-34-3		

LOCATION	ELASTOMERIC EXPANSION BEARING TYPE I						TOP PLATE									
	BENT	GIRDER	W _e	L _e	SERIES	T _p	N _p	T _s	N _s	T _o	T _i	W _t	L _t	SLOPE	T ₁	T ₂
21W	1		7"	12"	a	3/8"	3	3/32"	2	1 5/16"	4 9/16"	8"	15"	5.4%	4 3/8"	4 3/4"
	2										3 7/16"		15"	5.2%	3 5/8"	4"
	3										3 8"		15"	5.1%	3 1/2"	4 1/8"
	4										3 5/8"		15"	5.0%	3 1/2"	4 1/8"
	5										3 8"		15"	4.9%	3 1/2"	4 1/8"
21E	1		7"	12"	a	3/8"	3	3/32"	2	1 5/16"	3 8"	8"	15"	4.8%	3 1/2"	4 1/8"
	2										3 8"		15"	5.0%	3 1/2"	4 1/8"
	3										3 8"		15"	5.1%	3 1/2"	4 1/8"
	4										3 7/16"		15"	5.3%	3 5/8"	4"
	5										3 8"		15"	5.4%	3 1/2"	4 1/8"
24	1		9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	4.9%	2 5/8"	3 1/2"
	2										2 7/8"		15"	4.8%	2 5/8"	3 1/2"
	3										2 7/16"		15"	4.7%	2 1/2"	3 3/8"
	4										2 8"		15"	4.6%	2 5/8"	3 1/2"
	5										2 8"		15"	4.5%	2 5/8"	3 1/2"
25	1		7"	12"	b	3/8"	4	3/32"	3	1 3/4"	3 3/8"	8"	15"	3.4%	3 1/4"	3 1/2"
	2										3 3/8"		15"	3.2%	3 1/4"	3 1/2"
	3										3 5/16"		15"	3.1%	3 3/16"	3 1/2"
	4										3 3/8"		15"	3.1%	3 1/4"	3 1/2"
	5										3 3/8"		15"	3.0%	3 1/4"	3 1/2"
26	1		7"	12"	b	3/8"	4	3/32"	3	1 3/4"	3 3/8"	8"	15"	1.9%		
	2										3 3/8"		15"	1.8%		
	3										3 5/16"		15"	1.7%		
	4										3 5/16"		15"	1.7%		
	5										3 3/8"		15"	1.8%		
27W	1		7"	12"	b	3/8"	4	3/32"	3	1 3/4"	3 3/8"	8"	15"	1.6%		
	2										3 3/8"		15"	1.6%		
	3										3 7/16"		15"	1.5%		
	4										3 7/16"		15"	1.5%		
	5										3 7/16"		15"	1.5%		
27E	1		9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	0.1%		
	2										2 7/8"		15"	0.2%		
	3										2 7/8"		15"	0.2%		
	4										2 7/8"		15"	0.2%		
	5										2 8"		15"	0.1%		
28	1		7"	12"	b	3/8"	4	3/32"	3	1 3/4"	3 3/8"	8"	15"	3.0%	3 1/4"	3 1/2"
	2										3 5/16"		15"	2.9%	3 3/16"	3 1/2"
	3										3 3/8"		15"	2.8%	3 1/4"	3 1/2"
	4										3 3/8"		15"	2.8%	3 1/4"	3 1/2"
	5										3 3/8"		15"	2.7%	3 1/4"	3 1/2"

LOCATION	ELASTOMERIC EXPANSION BEARING TYPE I						TOP PLATE									
	BENT	GIRDER	W _e	L _e	SERIES	T _p	N _p	T _s	N _s	T _o	T _i	W _t	L _t	SLOPE	T ₁	T ₂
9	1		7"	12"	a	3/8"	3	3/32"	2	1 5/16"	4 1/8"	8"	15"	2.9%	4 9/16"	4 13/16"
	2										3 7/16"		15"	3.1%	3 1/2"	3 9/16"
	3										3 8"		15"	3.2%	3 3/4"	4"
	4										3 7/8"		15"	3.3%	3 3/4"	4"
	5										3 7/16"		15"	3.4%	3 1/2"	3 15/16"
10	1		9"	12"	b	3/8"	7	3/32"	6	3 3/16"	1 15/16"	10"	15 1/8"	1.3%		
	2										2"		15"	1.4%		
	3										1 15/16"		15"	1.6%		
	4										2"		15"	1.7%		
	5										1 15/16"		15 1/8"	1.9%		
11	1		6"	10"	a	5/16"	3	1/8"	2	1 1/8"	4 1/8"	7"	15"	0.1%		T ₁
	2										4 1/8"		15"	0		T ₂
	3										4 1/8"		15"	0.1%		T ₁
	4										4 1/8"		15"	0.3%		T ₂
	5										4 1/8"		15"	0.5%		T ₁
12	1		10"	14"	a	7/16"	5	1/8"	4	2 1/16"	2 7/16"	11"	19 1/2"	1.6%		
	2										2 7/16"		16"	1.4%		
	3										2 7/16"		16"	1.4%		
	4										2 7/16"		16"	1.3%		
	5										2 7/16"		19 1/2"	1.1%		
13	1		7"	12"	a	3/8"	3	3/32"	2	1 5/16"	3 7/8"	8"	15"	2.4%	3 3/4"	4"
	2										3 8"		15"	2.1%	3 1/2"	3 5/8"
	3										3 8"		15"	2.0%	3 1/2"	3 5/8"
	4										3 8"		15"	1.9%	3 8"	3 7/8"
	5										4 3/8"		15"	1.8%	4 3/8"	4 3/8"
14E	1		9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	2.0%		
	2										2 7/16"		15 1/8"	2.0%		
	3										2 7/16"		15 1/8"	2.0%		
	4										2 7/8"		15"	2.0%		
	5										2 7/8"		15"	2.1%		
14W	1		9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	1.8%		
	2										2 7/16"		15 1/8"	2.0%		
	3										2 7/16"		15 1/8"	2.1%		
	4										2 8"		15"	2.0%		
	5										2 8"		15"	2.2%		
15	1		9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	1.7%		
	2										3 1/8"		15 1/8"	2.0%		
	3										2 7/16"		15 1/8"	2.2%		
	4										2 11/16"		15"	2.2%		
	5										2 8"		15"	2.2%		
E4S	1		10"	14"	a	7/16"	5	1/8"	4	2 1/16"	3 1/8"	11"	19 1/2"	1.1%		
	2										2 1/2"		19 1/2"	1.1%		
	3										2 1/2"		19 1/2"	1.1%		
	4										2 1/2"		19 1/2"	1.1%		
	5										2 1/2"		19 1/2"	1.1%		
E4N	1		10"	14"	a	7/16"	5	1/8"	4	2 1/16"	2 1/2"	11"	19 1/2"	1.6%		
	2										2 1/2"		16"	1.6%		
	3										3 7/16"		16"	1.6%		
	4										2 1/2"		16"	1.6%		
	5										2 1/2"		19 1/2"	1.6%		
E5	1		9"	12"	a	3/8"	5	3/32"	4	2 1/4"	3 7/16"	10"	15"	3.9%	3 3/4"	3 8"
	2										2 7/16"		15"	4.0%	2 3/4"	3 8"
	3										2 7/16"		15"	4.2%	2 3/4"	3 8"
	4										2 15/16"		15"	4.3%	2 3/4"	3 8"
	5										3 1/16"		15"	4.4%	3 1/8"	3 8"
16	1		9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	5.8%	2 3/4"	3 3/8"
	2										2 7/16"		15 1/8"	6.1%	2 3/4"	3 4"
	3										2 7/16"		15 1/8"	6.2%	2 3/4"	3 4"
	4										2 8"		15"	6.5%	2 3/4"	3 4"
	5										2 8"		15"	6.7%	2 3/4"	3 4"

DESIGNED BY _____
 DRAWN BY _____
 CHECKED BY _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
 EXPANSION BEARING SCHEDULE
 F.A.I. RT. 94 COOK COUNTY SECTION 1975-R7-R
 CHRISTIAN-ROSE AND ASSOC.
 ENGINEERS
 CHICAGO, ILLINOIS

SHEET
 STOP

FILE NAME: D:\161749-PWINT-accomonline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing384



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1872
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	97
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3		

EXPANSION BEARING SCHEDULE

LOCATION	BENT	GIRDER	ELASTOMERIC EXPANSION BEARING TYPE I							TOP PLATE						
			W _e	L _e	SERIES	T _p	N _p	T _s	N _s	T _o	T ₁	W ₁	L ₁	SLOPE	T ₁	T ₂
E16 S	W-S RAMP	1	10"	14"	a	7/16"	5	1/8"	4	2 1/16"	4 1/8"	11"	16"	4.2%	4 3/16"	4 1/16"
		2									3 1/8"		16"	4.0%	2 7/8"	3 3/8"
		3									3 1/8"		16"	3.9%	2 3/16"	3 5/16"
		4									2 1/2"		16"	3.7%	2 5/16"	2 1/16"
		5									2 1/2"		16"	3.5%	2 5/16"	2 1/16"
E16 N	W-S RAMP	1	10"	14"	a	7/16"	5	1/8"	4	2 1/16"	4 3/8"	11"	16"	6.7%	4"	4 3/4"
		2									3 1/8"		16"	6.3%	2 1/16"	3 7/16"
		3									3 1/8"		16"	6.0%	2 3/4"	3 3/8"
		4									2 1/2"		16"	5.7%	2 3/16"	2 3/16"
		5									2 1/2"		16"	5.4%	2 3/16"	2 3/16"
E13 S	W-S RAMP	1	10"	14"	a	7/16"	5	1/8"	4	2 1/16"	2 1/2"	11"	19 5/8"	0.7%		
		2									3 1/8"		19 1/2"	0.7%		
		3									3 7/8"		19 1/2"	0.7%		
		4									3 7/8"		19 1/2"	0.7%		
		5									3 7/8"		19 1/2"	0.7%		
E13 N	W-S RAMP	1	9"	12"	a	3/8"	5	3/32"	4	2 1/4"	5 1/8"	10"	15"	0.7%		
		2									3 1/16"		15"	0.7%		
		3									2 15/16"		15"	0.7%		
		4									2 19/16"		15"	0.7%		
		5									2 15/16"		15"	0.7%		
		5A									2 5/16"		15"			
E12	W-S RAMP	1	10"	14"	a	7/16"	5	1/8"	4	2 1/16"	2 1/2"	11"	16"	0.7%		
		2									3 1/16"		16"	0.8%		
		3									2 15/16"		16"	0.8%		
		4									2 15/16"		16"	0.8%		
		5									2 1/2"		16"	0.8%		
51	W-S RAMP	1	9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	0.7%		
		2									2 7/8"		15 1/8"	0.7%		
		3									2 1/2"		15 1/8"	0.7%		
		4									2 7/8"		15"	0.8%		
		5									2 7/8"		15"	0.8%		
52 S	W-S RAMP	1	9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	0.7%		
		2									2 7/8"		15 1/8"	0.7%		
		3									2 7/8"		15 1/8"	0.8%		
		4									2 7/8"		15"	0.8%		
		5									2 7/8"		15"	0.8%		
52 N	W-S RAMP	1	9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	0.7%		
		2									2 7/8"		15 1/8"	0.7%		
		3									2 7/8"		15 1/8"	0.8%		
		4									2 7/8"		15"	0.8%		
		5									2 7/8"		15"	0.8%		
53	W-S RAMP	1	9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	0.7%		
		2									2 7/8"		15 1/8"	0.7%		
		3									2 7/8"		15 1/8"	0.8%		
		4									2 7/8"		15"	0.8%		
		5									2 7/8"		15"	0.8%		
56 W	W-S RAMP	1	7"	12"	a	3/8"	3	3/32"	2	1 5/16"	3 13/16"	8"	15"	0.7%		
		2									3 13/16"		15"	0.7%		
		3									3 13/16"		15"	0.7%		
		4									3 13/16"		15"	0.8%		
		5									3 13/16"		15"	0.9%		

LOCATION	BENT	GIRDER	ELASTOMERIC EXPANSION BEARING TYPE I							TOP PLATE						
			W _e	L _e	SERIES	T _p	N _p	T _s	N _s	T _o	T ₁	W ₁	L ₁	SLOPE	T ₁	T ₂
56 E	W-S RAMP	1	9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	0.7%		
		2									2 7/8"		15"	0.7%		
		3									2 7/8"		15"	0.6%		
		4									2 7/8"		15"	0.5%		
		5									2 7/8"		15"	0.4%		
57	W-S RAMP	1	10"	14"	a	7/16"	5	1/8"	4	2 1/16"	2 7/8"	11"	19 5/8"	0.7%		
		2									2 7/8"		19 1/2"	0.7%		
		3									2 7/8"		19 1/2"	0.8%		
		4									2 7/8"		19 1/2"	0.8%		
		5									2 7/8"		19 1/2"	0.9%		
58	W-S RAMP	1	10"	14"	a	7/16"	5	1/8"	4	2 1/16"	2 7/8"	11"	19 5/8"	0.7%		
		2									2 7/8"		19 1/2"	0.8%		
		3									2 7/8"		19 1/2"	0.8%		
		4									2 7/8"		19 1/2"	0.9%		
		5									2 7/8"		19 1/2"	1.0%		
61 W	W-S RAMP	1	9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	1.2%		
		2									2 7/8"		15"	0.8%		
		3									2 7/8"		15"	0.4%		
		4									2 7/8"		15"	0.07%		
		5									2 7/8"		15"	0.2%		
61 E	W-S RAMP	1	9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	0.7%		
		2									2 7/8"		15"	0.4%		
		3									2 7/8"		15"	0.03%		
		4									2 7/8"		15"	0.3%		
		5									2 7/8"		15"	0.7%		
63 W	W-S RAMP	1	7"	12"	b	3/8"	4	3/32"	3	1 3/4"	3 5/16"	8"	15"	0.4%		
		2									2 7/8"		15"	0.2%		
		3									2 7/8"		15"	0.2%		
		4									2 1/4"		15"	0.3%		
		5									2 3/8"		15"	0.3%		
63 E	W-S RAMP	1	9"	12"	a	3/8"	5	3/32"	4	2 1/4"	2 7/8"	10"	15"	1.0%		
		2									2 7/8"		15"	0.7%		
		3									2 7/8"		15"	0.4%		
		4									2 7/8"		15"	0.1%		
		5									2 7/8"		15"	0.2%		
64	W-S RAMP	1	7"	12"	b	3/8"	4	3/32"	3	1 3/4"	3 5/16"	8"	15"	0.03%		
		2									3 5/16"		15"	0.05%		
		3									3 5/16"		15"	0.09%		
		4									3 5/16"		15"	0.1%		
		5									3 5/16"		15"	0.1%		
65	W-S RAMP	1A	9"	12"	a	3/8"	5	3/32"	4	2 1/4"	3 3/4"	10"	15"			
		1	9"	12"	a	3/8"	5	3/32"	4	2 1/4"	3 3/4"	10"	15"	0.6%		
		2									2 7/8"		15"	0.5%		
		3									2 7/8"		15"	0.5%		
		4									2 7/8"		15"	0.6%		
E9	W-S RAMP	1	7"	12"	b	3/8"	4	3/32"	3	1 3/4"	2 7/8"	8"	15"	1.4%		
		2									3 5/16"		15"	1.2%		
		3									3 5/16"		15"	1.2%		
		4									3 5/16"		15"	1.0%		
		5									3 5/16"		15"	0.7%		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
EXPANSION BEARING SCHEDULE
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROOF AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS
SHEET
S71 of

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

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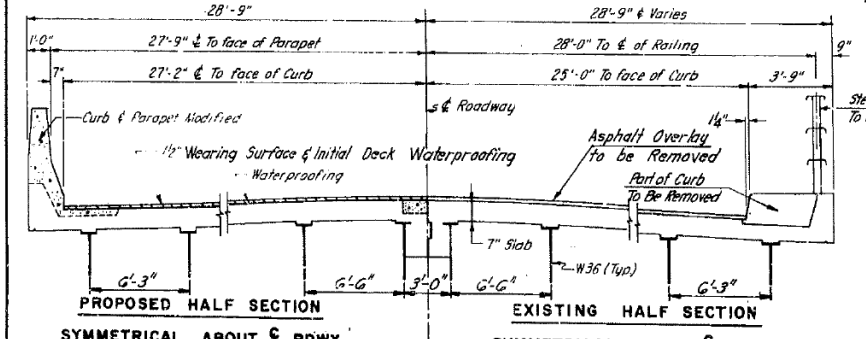
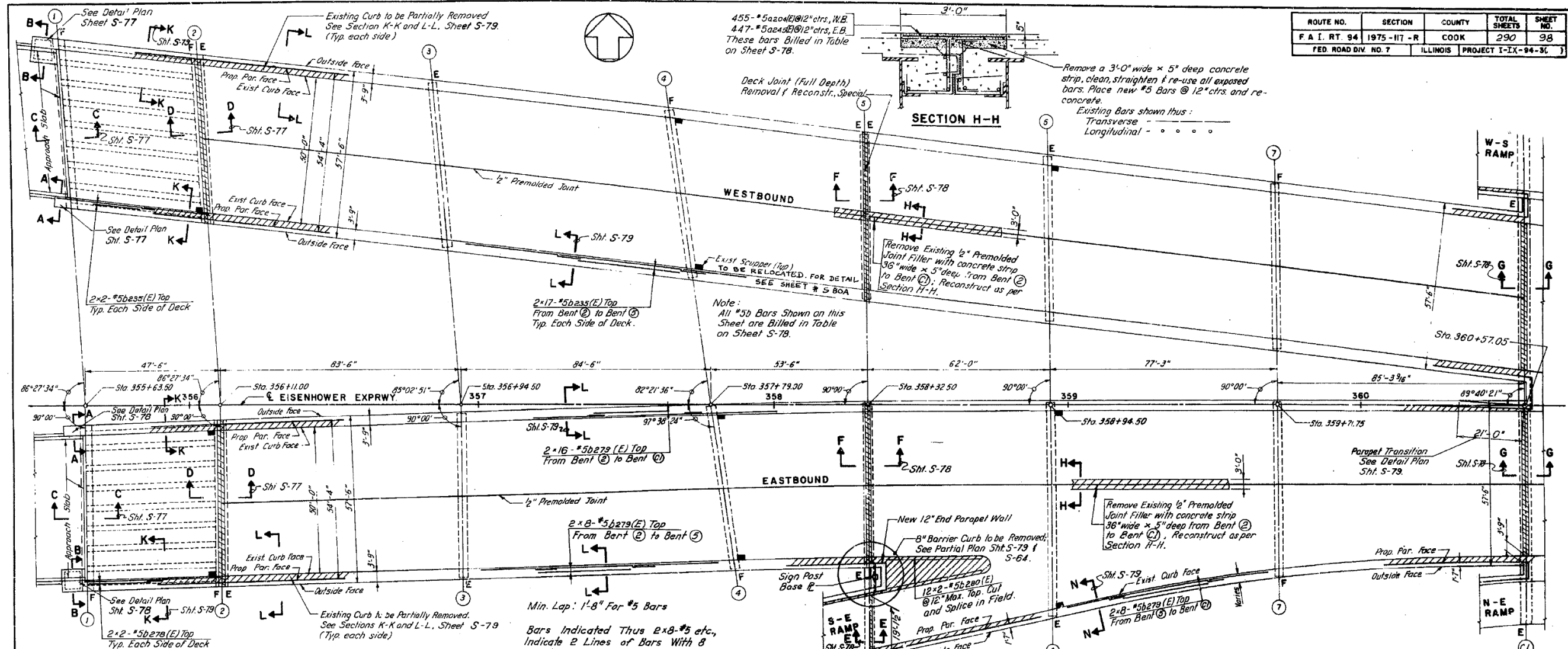
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1873
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-17-R	COOK	290	98
FED ROAD DIV NO. 7	ILLINOIS	PROJECT I-IX-94-31		



TYPICAL DECK CROSS SECTION
 W.B. RDWY. & E.B. RDWY. FROM ABUT. I TO BENT 5 - REST OF E.B. RDWY. SIMILAR
 Note: Deck Slab btwn Abut. ① & Bent ② is supported by Concrete Beams.

PLAN

ABUTMENT ① TO BENT ①

WORK TO BE PERFORMED

- 1.- REMOVE EXISTING OVERLAY
- 2.- REMOVE HANDRAIL AND PART OF EXISTING CURB AND 8" BARRIER CURB
- 3.- REMOVE ALL LOOSE AND DETERIORATED CONCRETE FROM DECK AT LOCATIONS MARKED BY THE ENGINEER
- 4.- ELIMINATE LONGITUDINAL EXPANSION JOINTS
- 5.- RESET EXPANSION BEARINGS
- 6.- REPAIR DECK SLAB WITH CONCRETE
- 7.- CONSTRUCT CONCRETE PARAPET AND MEDIUM
- 8.- RECONSTRUCT DECK EXPANSION JOINTS
- 9.- WATERPROOF AND RESURFACE DECK WITH 1/2" BIT. SURF. COURSE
- 10.- REPAIR SUBSTRUCTURES AS REQUIRED

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPERST.	SUBSTR.	TOTAL
Deck Jt. (Full Depth) Removal & Replacement Spec.	Sq. Yd.	12.7		12.7
Deck Jt. (Partial Depth) Rem. & Repl. Special	Sq. Yd.	70		70
Concrete Removal	Cu. Yd.	246.3		246.3
Class X Concrete	Cu. Yd.	279.4		279.4
Protective Coat	Sq. Yd.	845		845
Waterproofing Membrane System	Sq. Yd.	6313		6313
Neoprene Expansion Joint 4"	Lin. Ft.	60		60
Neoprene Expansion Joint 2 1/2"	Lin. Ft.	297		297
Neoprene Expansion Joint 2"	Lin. Ft.	110		110
Bridge Deck Overlay Removal	Sq. Yd.	6285		6285
Bit. Conc. Surface Course	Ton	531		531
Deck Slab Repair (Partial)	Sq. Yd.	494		494
Deck Slab Repair (Full Depth)	Sq. Yd.	59		59
Repair Concrete Structures	Sq. Ft.		209	209
Resetting Expansion Bearing	Ev.		24	24
Reinforcement Bars	Lb.	17810		17810
Reinforcement Bars (Epoxy Coated)	Lb.	35720		35720
Epoxy Mortar Repair	Cu. Ft.		23.7	23.7

For General Notes See Sht. 980.
 Expansion Bearings to be Reset are Located:
 10 on Pier ①, 4 on ②, 4 on ③, 2 on ④ & 4 on ⑤.

DESIGN SPECIFICATIONS
 1977 A.A.S.H.T.O. And Interim Specifications as Applicable
DESIGN STRESSES (NEW CONSTR.)
 f'c = 3,500 p.s.i., Deck Slab, Curb & Parapet
 fy = 60,000 p.s.i., Reinforcement

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
 GENERAL PLAN
 ABUTMENT I TO BENT C I
 F.A.I. RT. 94 COOK COUNTY SECTION 1975-17-R
 CHRISTIAN-ROGE AND ASSOC.
 ENGINEERS
 CHICAGO, ILLINOIS

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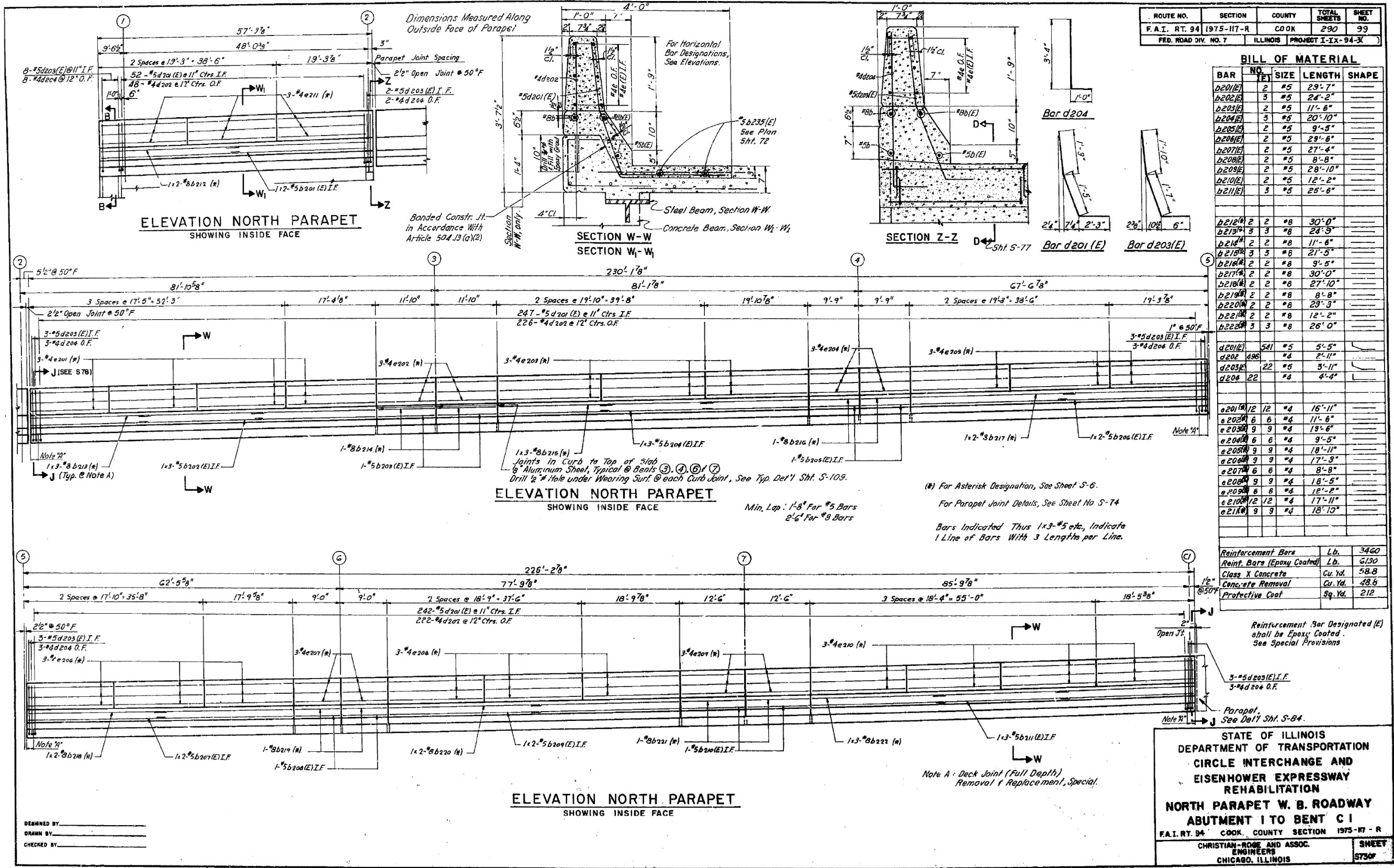
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PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1874
			CONTRACT NO. 60X93	
			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
 NORTH PARAPET W. B. ROADWAY
 ABUTMENT I TO BENT C I
 F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
 CHRISTIAN-ROBE AND ASSOC.
 ENGINEERS
 CHICAGO, ILLINOIS

SHEET NO. 57307

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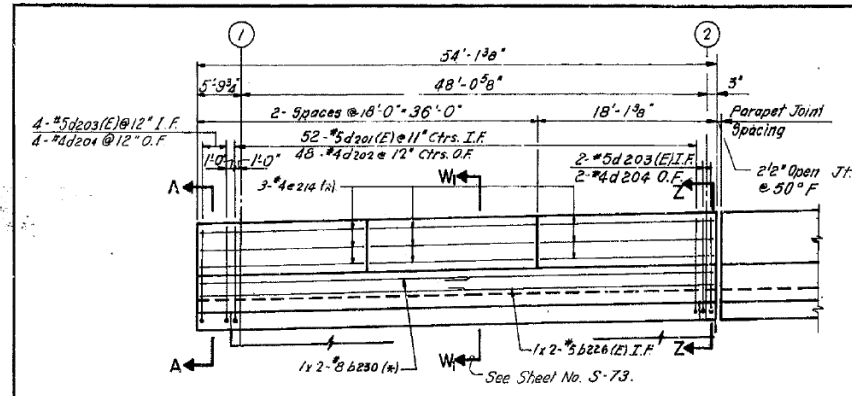
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

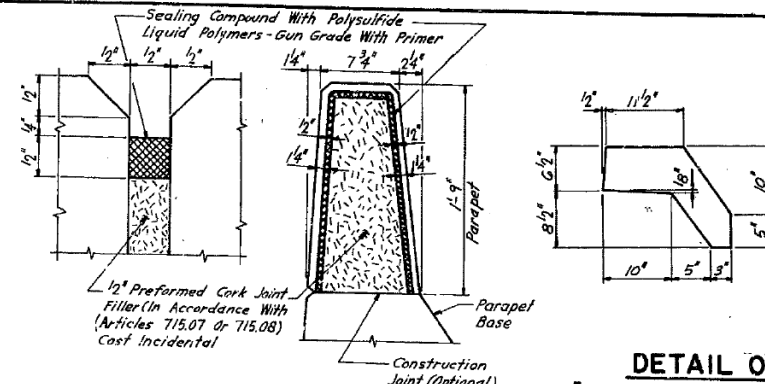
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1875
				CONTRACT NO. 60X93
				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



ELEVATION SOUTH PARAPET
SHOWING OUTSIDE FACE

Dimensions Measured Along Outside Face of Parapet



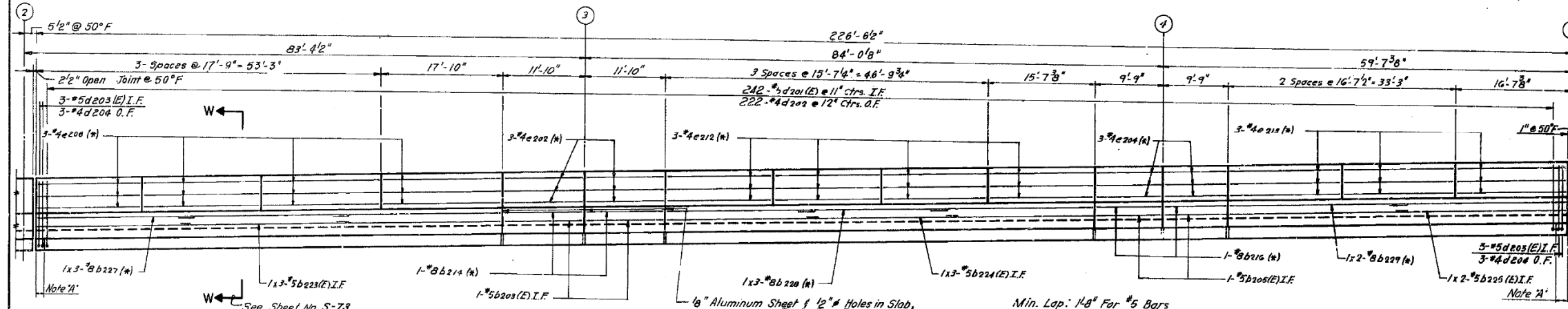
DETAILS OF PARAPET JOINT
(Install in all Parapet Joints)

DETAIL OF 1/8\"/>

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	297	100
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3		

BILL OF MATERIAL

BAR NO.	QTY	SIZE	LENGTH	SHAPE
b203(E)	2	#5	11'-6"	
b205(E)	2	#5	9'-5"	
b207(E)	2	#5	27'-4"	
b208(E)	2	#5	8'-8"	
b209(E)	2	#5	28'-10"	
b210(E)	2	#5	12'-2"	
b211(E)	3	#5	25'-6"	
b223(E)	3	#5	24'-8"	
b224(E)	3	#5	21'-10"	
b225(E)	2	#5	25'-7"	
b226(E)	2	#5	27'-3"	
b214(A)	2	#8	11'-6"	
b216(A)	2	#8	9'-5"	
b218(A)	2	#8	27'-10"	
b219(A)	2	#8	8'-8"	
b220(A)	2	#8	29'-3"	
b221(A)	2	#8	12'-2"	
b227(A)	3	#8	25'-3"	
b228(A)	3	#8	22'-1"	
b229(A)	5	#8	26'-0"	
b230(A)	2	#8	28'-2"	
d201(E)	536	#5	5'-5"	
d202	432	#4	2'-11"	
d203(E)	18	#5	3'-11"	
d204	18	#4	4'-4"	
e208	6	#4	11'-6"	
e209	6	#4	9'-5"	
e200	21	#4	17'-5"	
e207	6	#4	8'-8"	
e205	9	#4	18'-5"	
e203	6	#4	12'-2"	
e210	12	#4	17'-11"	
e212	12	#4	15'-4"	
e213	9	#4	18'-3"	
e214	9	#4	17'-8"	
Reinforcement Bars	Lb.	34.10		
Reinf. Bars (Epoxy Coated)	Lb.	6040		
Class X Concrete	Cu. Yd.	58.0		
Concrete Removal	Cu. Yd.	48.5		
Protective Coat	Sq. Yd.	209		

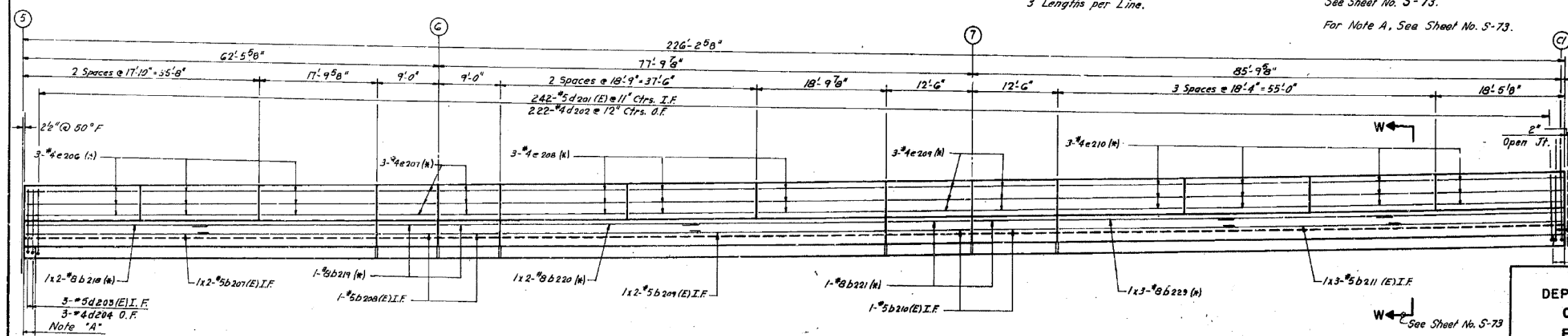


ELEVATION SOUTH PARAPET
SHOWING OUTSIDE FACE

Min. Lap: 14\"/>

Bars Indicated Thus 1x3-#9 etc., Indicate 1 Line of Bars With 3 Lengths per Line.

(*) For Asterisk Designation See Sheet No. S-6.
For Sections W-W & Z-Z, See Sheet No. S-73.
For Reinforcement Bar Bending Details, See Sheet No. S-73.
For Note A, See Sheet No. S-73.



ELEVATION SOUTH PARAPET
SHOWING OUTSIDE FACE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
SOUTH PARAPET W. B. ROADWAY
ABUTMENT I TO BENT C I
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R

CHRISTIAN, ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
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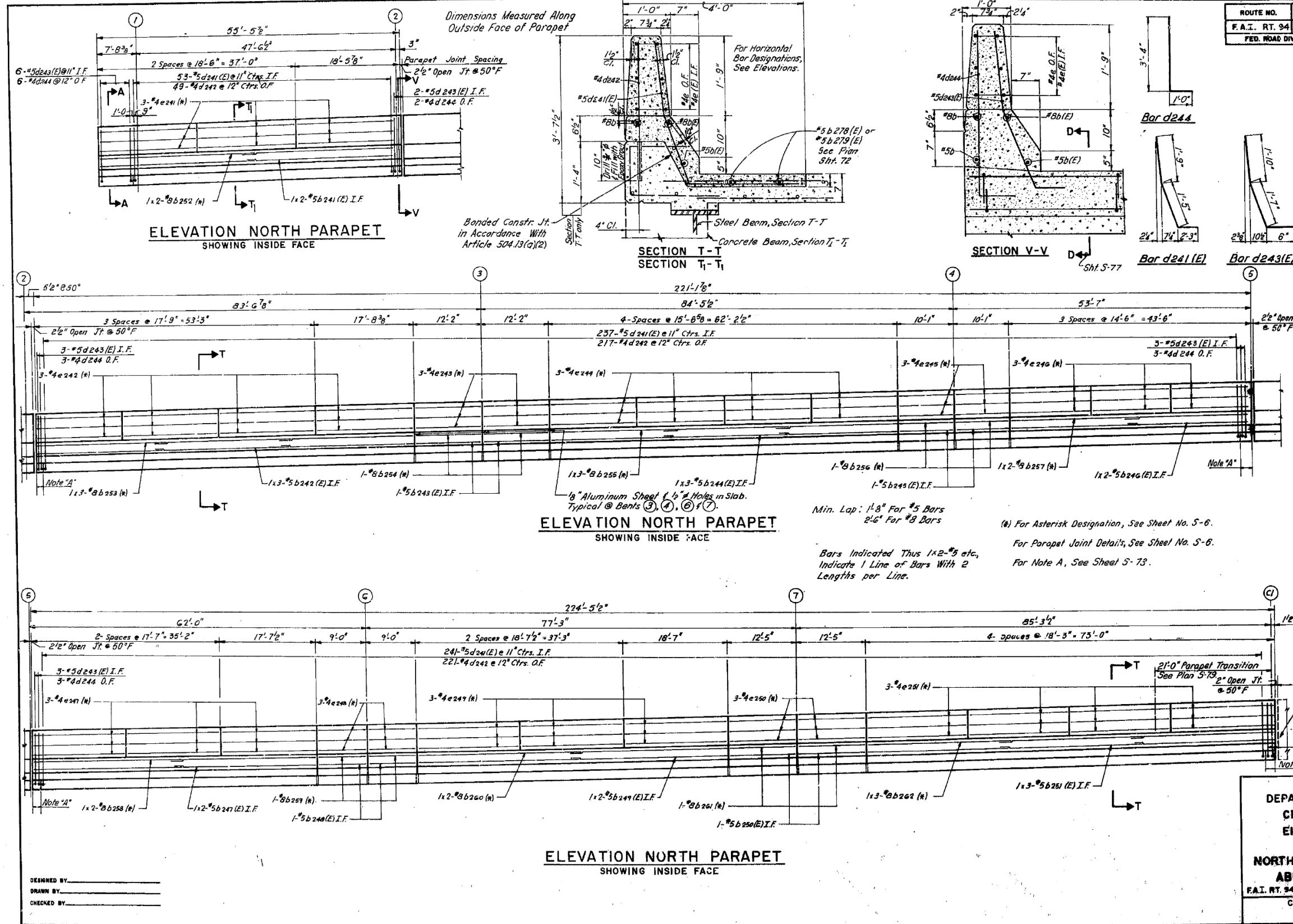
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1876
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	101
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3		



BILL OF MATERIAL

BAR NO.	QTY	SIZE	LENGTH	SHAPE
b241(E)	2	#5	29'-4"	
b242(E)	3	#5	24'-8"	
b243(E)	2	#5	11'-10"	
b244(E)	3	#5	21'-10"	
b245(E)	2	#5	9'-9"	
b246(E)	2	#5	22'-6"	
b247(E)	2	#5	27'-2"	
b248(E)	2	#5	8'-8"	
b249(E)	2	#5	28'-7"	
b250(E)	2	#5	12'-1"	
b251(E)	3	#5	25'-3"	
b252	2	#8	26'-10"	
b253	3	#8	25'-2"	
b254	2	#8	11'-10"	
b255	3	#10	22'-3"	
b256	2	#8	9'-9"	
b257	2	#8	22'-10"	
b258	2	#8	27'-6"	
b259	2	#3	8'-8"	
b260	2	#8	29'-0"	
b261	2	#8	12'-1"	
b262	3	#8	25'-10"	
d241(E)	53	#5	5'-5"	
d242	487	#4	2'-11"	
d243(E)	20	#5	3'-11"	
d244	70	#4	4'-4"	
e241	9	#4	18'-2"	
e242	12	#4	17'-5"	
e243	6	#4	11'-10"	
e244	12	#4	15'-3"	
e245	9	#4	9'-9"	
e246	9	#4	14'-2"	
e247	9	#4	17'-1"	
e248	6	#4	8'-8"	
e249	9	#4	18'-5"	
e250	6	#4	12'-1"	
e251	12	#4	17'-11"	

Reinforcement Bars	Lb.	3380
Reinf. Bars (Epoxy Coated)	Lb.	5990
Class X Concrete	Cu. Yd.	57.4
Concrete Removal	Cu. Yd.	41.8
Protective Coat	Sq. Yd.	201

Reinforcement Bar Designated (E) shall be Epoxy Coated. See Special Provisions.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
NORTH PARAPET E. B. ROADWAY
ABUTMENT I TO BENT C-I
F.A.I. RT. 94 COUNTY SECTION 1975-117-R
CHRISTIAN-ROGGE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

1975-117-R Cook

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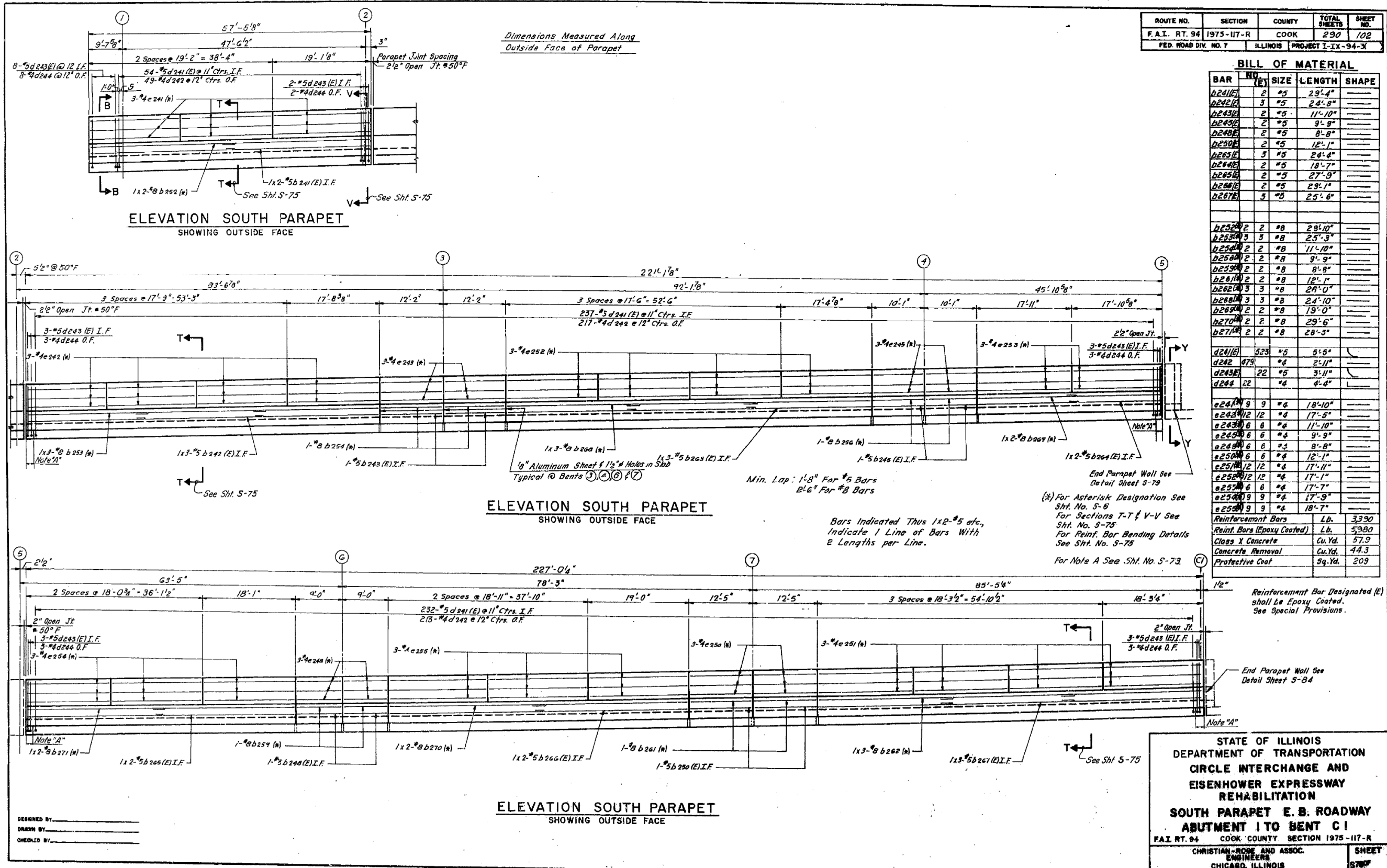
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1877
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	102
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
SOUTH PARAPET E. B. ROADWAY
ABUTMENT I TO BENT C I

F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

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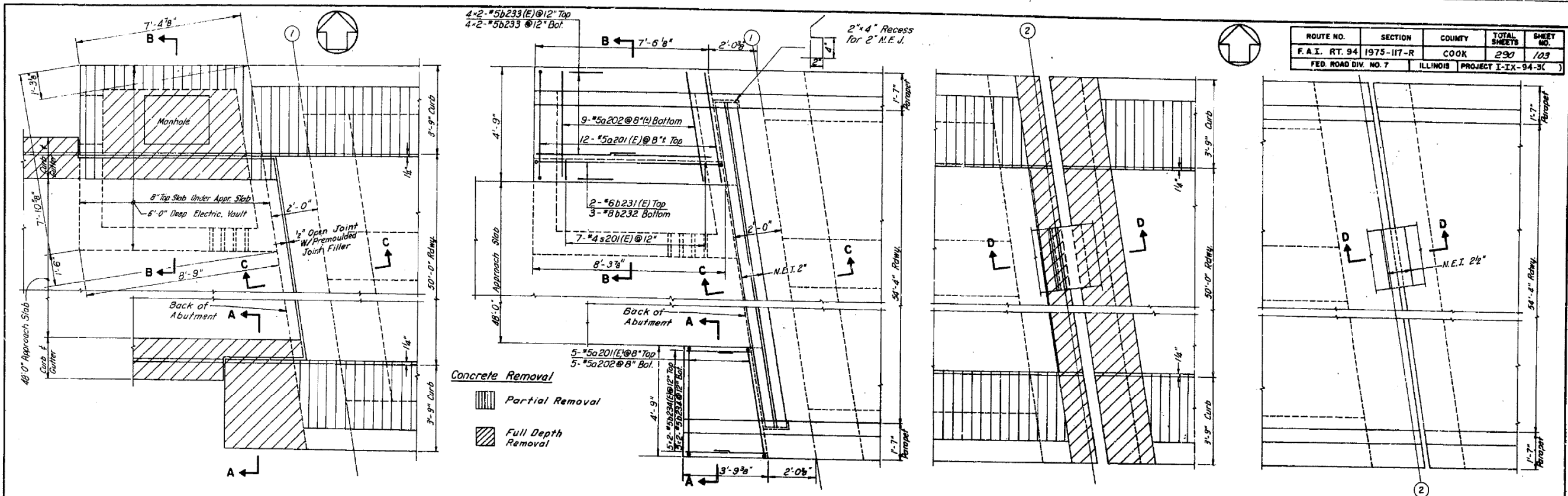
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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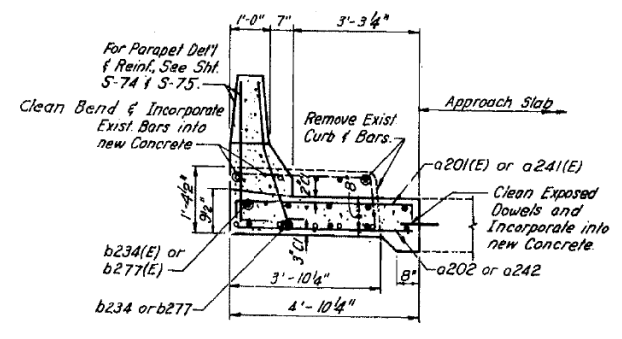
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F.A.I. RT. 94	1975-117-R	COOK	290	103
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3C		

PLAN - EXISTING JOINT AT ABUT. 1 W.B.

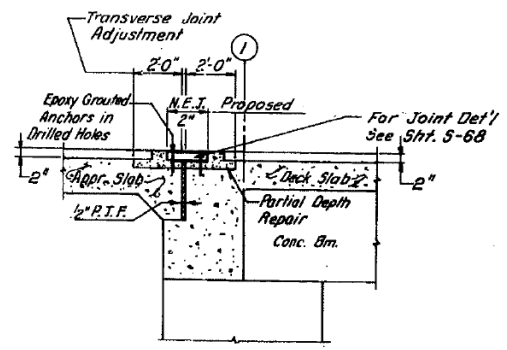
PLAN - PROPOSED JOINT AT ABUT. 1 W.B.

PLAN - EXISTING JOINT AT BENT 2 W.B.
E.B. SIMILAR

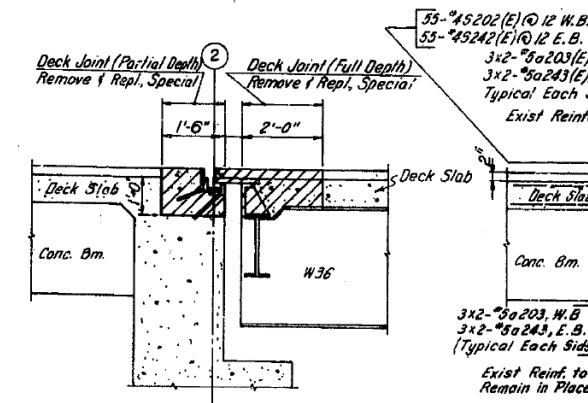
PLAN - PROPOSED JOINT AT BENT 2 W.B.
E.B. SIMILAR



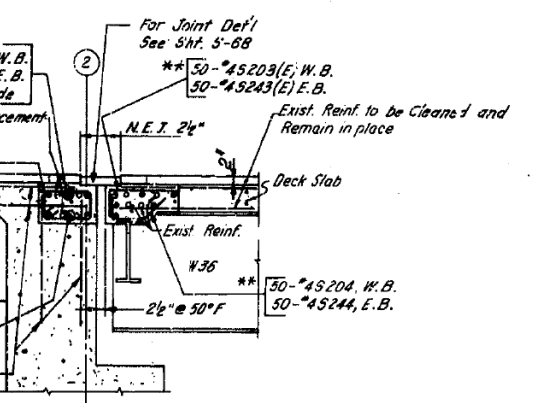
SECTION A-A



SECTION C-C



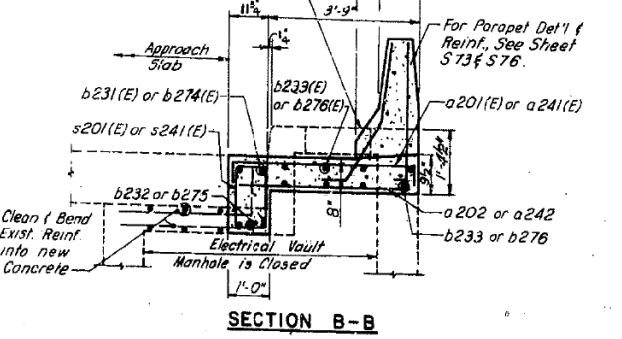
EXISTING



PROPOSED

SECTION D-D
(Joint @ Bent @ W.B. & E.B.)

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____



SECTION B-B

For Reinforcement Bar List & Bar Banding Details See Sht. 70

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
DECK JOINT DETAILS
ABUTMENT 1 AND BENT 2

F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R

CHRISTIAN-ROGE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
577 of

FILE NAME: D:\V1617479-PWINT-aecomonline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing391



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -	MI, MAI	REVISED -	
		CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

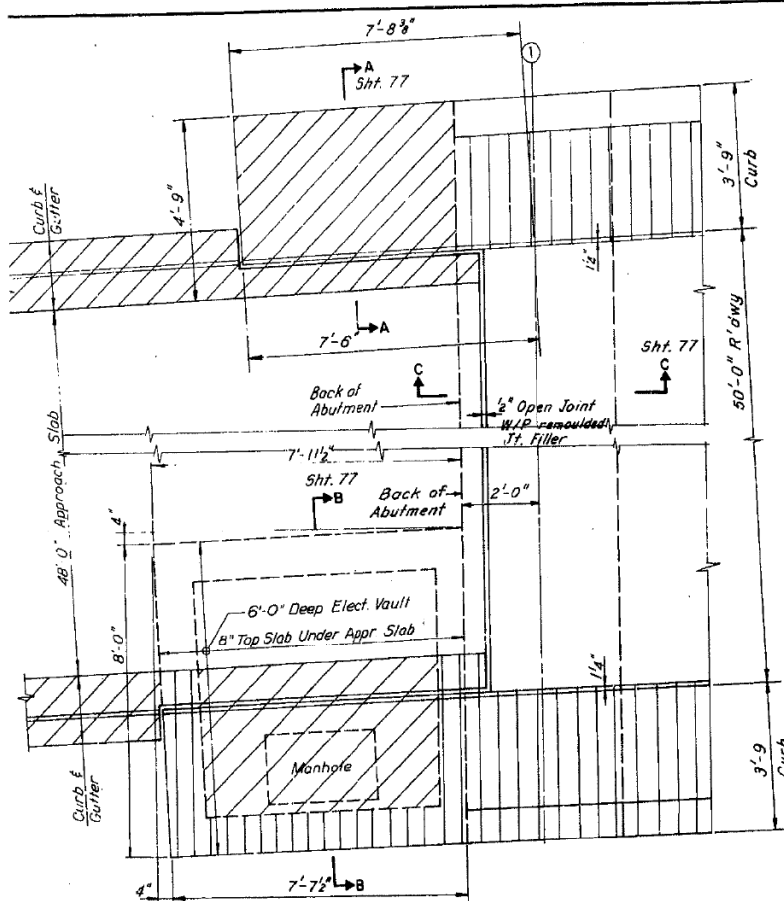
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				CONTRACT NO. 60X93
				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

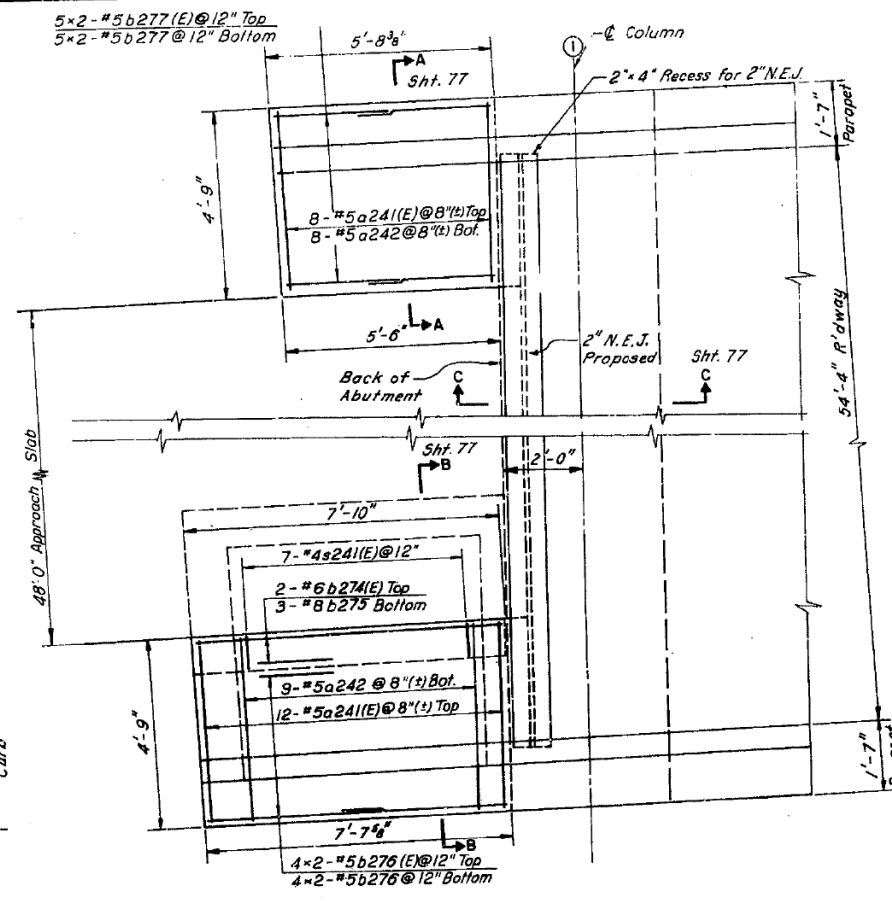
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	104
FED ROAD DIV. NO. 7		ILLINOIS	PROJECT I-IX-94-3	

BILL OF MATERIAL FOR DECK JOINT RECONSTRUCTION

LOCATION	BAR	NO.	SIZE	LENGTH	SHAPE
Abutment 1 - N.B. I-90	a201(E)	17	#5	5'-5"	
	a202	14	#5	4'-5"	
	b231(E)	2	#6	9'-1"	
	b232	3	#8	9'-11"	
	b233	8	#5	4'-9"	
	b233(E)	8	#5	4'-9"	
	b234	10	#5	2'-7"	
	b234(E)	10	#5	2'-7"	
	s201(E)	7	#4	4'-6"	
	Abutment 1 - E.B. I-90	a241(E)	20	#5	5'-5"
a242		17	#5	4'-5"	
b274(E)		2	#6	8'-6"	
b275		3	#8	9'-4"	
b276		8	#5	4'-9"	
b276(E)		8	#5	4'-9"	
b277		10	#5	3'-9"	
b277(E)		10	#5	3'-9"	
s241(E)		7	#4	4'-6"	
Bent 2 W.B.		a207	12	#5	30'-6"
	a203(E)	12	#5	30'-6"	
	s202(E)	55	#1	4'-6"	
	s203(E)	50	#4	2'-6"	
	s204	50	#4	2'-8"	
Bent 2 E.B.	a243	12	#5	30'-6"	
	a243(E)	12	#5	30'-6"	
	s242(E)	55	#4	4'-6"	
	s243(E)	50	#4	2'-6"	
	s244	50	#4	2'-8"	
Bent 5 W.B.	a203	16	#5	30'-6"	
	a203(E)	12	#5	30'-6"	
	s203(E)	100	#4	2'-6"	
	s204	100	#4	2'-8"	
	s204	100	#4	2'-8"	
Bent 5 E.B.	a243	16	#5	30'-6"	
	a243(E)	12	#5	30'-6"	
	s243(E)	100	#4	2'-6"	
	s244	100	#4	2'-8"	
	s244	100	#4	2'-8"	
Bent C1 W.B.	a203	12	#5	30'-6"	
	a203(E)	12	#5	30'-6"	
	s203(E)	104	#4	2'-6"	
	s204	104	#4	2'-8"	
	s204	104	#4	2'-8"	
Bent C1 E.B.	a243	12	#5	30'-6"	
	a243(E)	12	#5	30'-6"	
	s243(E)	110	#4	2'-6"	
	s244	100	#4	2'-8"	
	s244	100	#4	2'-8"	
Bent 5 Adjacent to S.E. Ramp	a244	4	#5	23'-10"	
	a244(E)	3	#5	23'-10"	
	s243(E)	24	#4	2'-6"	
	s244	24	#4	2'-6"	
	s244	24	#4	2'-6"	
Long'l. Bars in Deck Slab adjacent to Curb	b235(E)	76	#5	28'-6"	
	b278(E)	8	#5	28'-6"	
	b279(E)	64	#5	30'-0"	
	b290(E)	24	#5	20'-0"	
	a204(E)	455	#5	2'-6"	
Long'l. J.I. E.B.	a245(E)	447	#5	2'-6"	
	a245(E)	447	#5	2'-6"	



PLAN - EXISTING JOINT AT ABUT. I E.B.

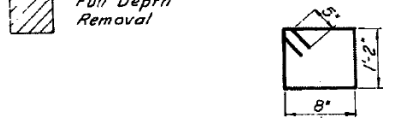


PLAN - PROPOSED JOINT AT ABUT. I E.B.

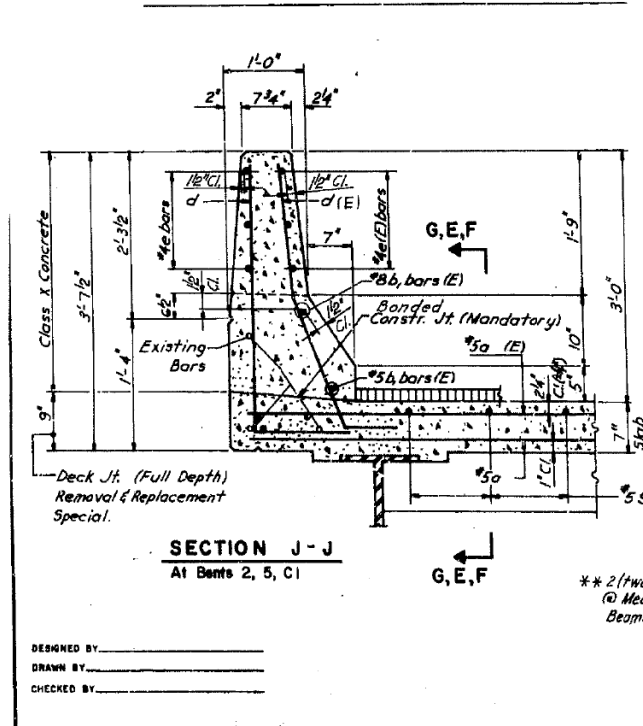
Concrete Removal

Partial Removal

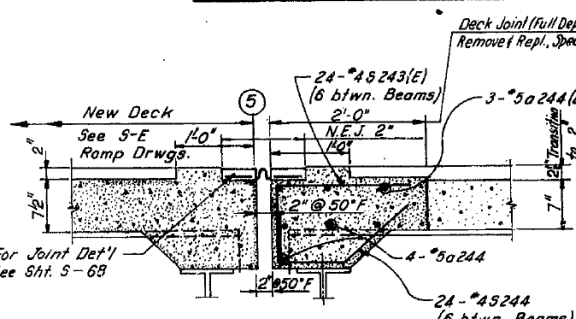
Full Depth Removal



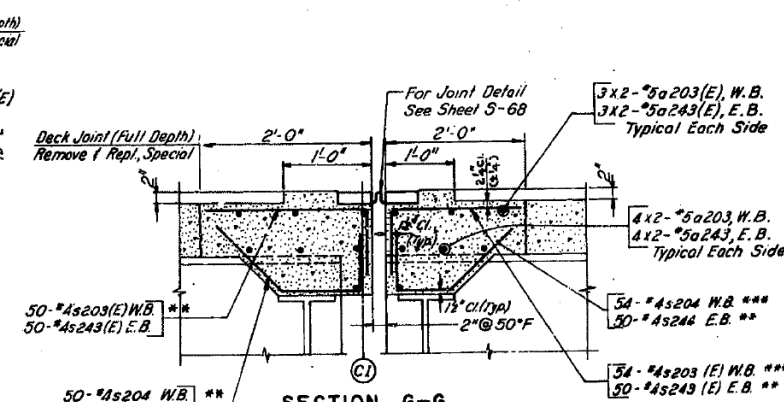
BAR BENDING DETAILS



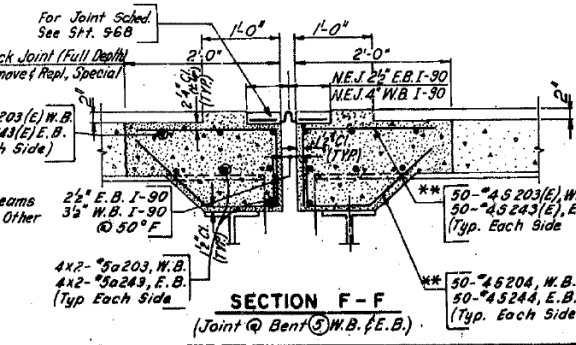
SECTION J-J At Bents 2, 5, C1



SECTION E-E (Joint @ Bent 5 Adjacent to Ramp S-E)



SECTION G-G (Joint @ Bent C1 W.B. & E.B.)



SECTION F-F (Joint @ Bent 5 W.B. & E.B.)

Reinforcement Bars (Epoxy Coated)	Lb.	11390
Reinforcement Bars	Lb.	4930
Glass X Concrete	Cu.Yd.	45.6
Concrete Removal	Cu.Yd.	47.2
Deck Joint (Full Depth) Removal and Replacement Special	Sp.Yd.	127
Deck Joint (Partial Depth) Removal and Replacement Special	Sp.Yd.	70
Neoprene Expansion Joint 4"	Lin.Ft.	60
Neoprene Expansion Joint 2"	Lin.Ft.	297
Neoprene Expansion Joint 2"	Lin.Ft.	110

Reinforcement Bars Designated (E) Shall be Epoxy Coated. See Special Provisions.

For Continuation of Bill of Material See Bottom Left, This Sheet.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
DECK JOINT DETAILS
ABUTMENT 1 AND BENT 2
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROGE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
5700F

FILE NAME: dw:\161749-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Plans\60X93-SXX-Existing\392



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1880
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 94	1975-117-R	COOK	290	106
FED. ROAD ONE NO. 7	ILLINOIS	PROJECT I-1X-94-31		

GENERAL NOTES

ALL NEW STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH TWO COATS OF BASIC LEAD SILICO CHROMATE PAINT.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

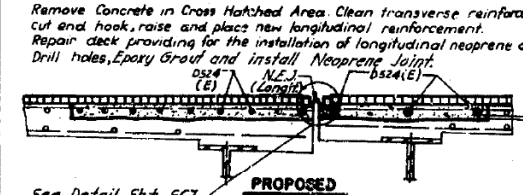
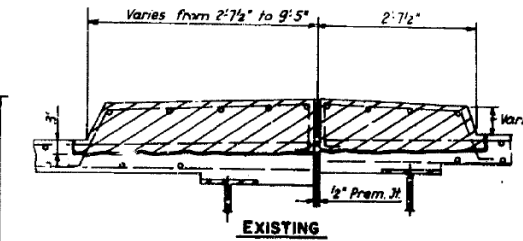
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYSTEM IS APPLIED.

SPECIAL CARE SHALL BE TAKEN IN COMPACTING BITUMINOUS CONCRETE SURFACE ALONG EXPANSION JOINTS TO ACHIEVE PROPER DENSITY AND TO FORM 1/4" LIP. SMALLER ROLLERS AND STEEL FLATES SHALL BE USED FOR THIS PURPOSE AS DIRECTED BY THE ENGINEER.

ALL REINFORCEMENT BARS SHALL CONFORM TO A.A.S.H.T.O. M-31 GRADE 60 OR M-53 GRADE 60.



SECTION N-N

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPERST	SUBSTR	TOTAL
Bridge Deck Overlay Removal	Sq. Yd.	3,610	---	3,610
Deck Slab Repair (Partial Depth)	Sq. Yd.	157	---	157
Deck Slab Repair (Full Depth)	Sq. Yd.	15	---	15
Waterproofing Membrane System	Sq. Yd.	4638	---	4638
Bit. Concrete Surface Course	Ton	390	---	390
Protective Coat	Sq. Yd.	510	---	510
Class X Concrete	Cu. Yd.	327	---	327
Reinforcement Bars	Lb.	24,300	---	24,300
Reinforcement Bars (Epoxy Coated)	Lb.	46,470	---	46,470
Repair Concrete Structure	Sq. Ft.	---	983	983
Concrete Removal	Cu. Yd.	142	---	142
Neoprene Expansion Jt. (Longitudinal)	Lin. Ft.	146	---	146
Prefabricated Joint Sealer (2 1/2")	Lin. Ft.	337	---	337
Removal of Superstructure No. 6A	Eq.	1	---	1
Epoxy Mortar Repair	Cu. Ft.	---	204.9	204.9

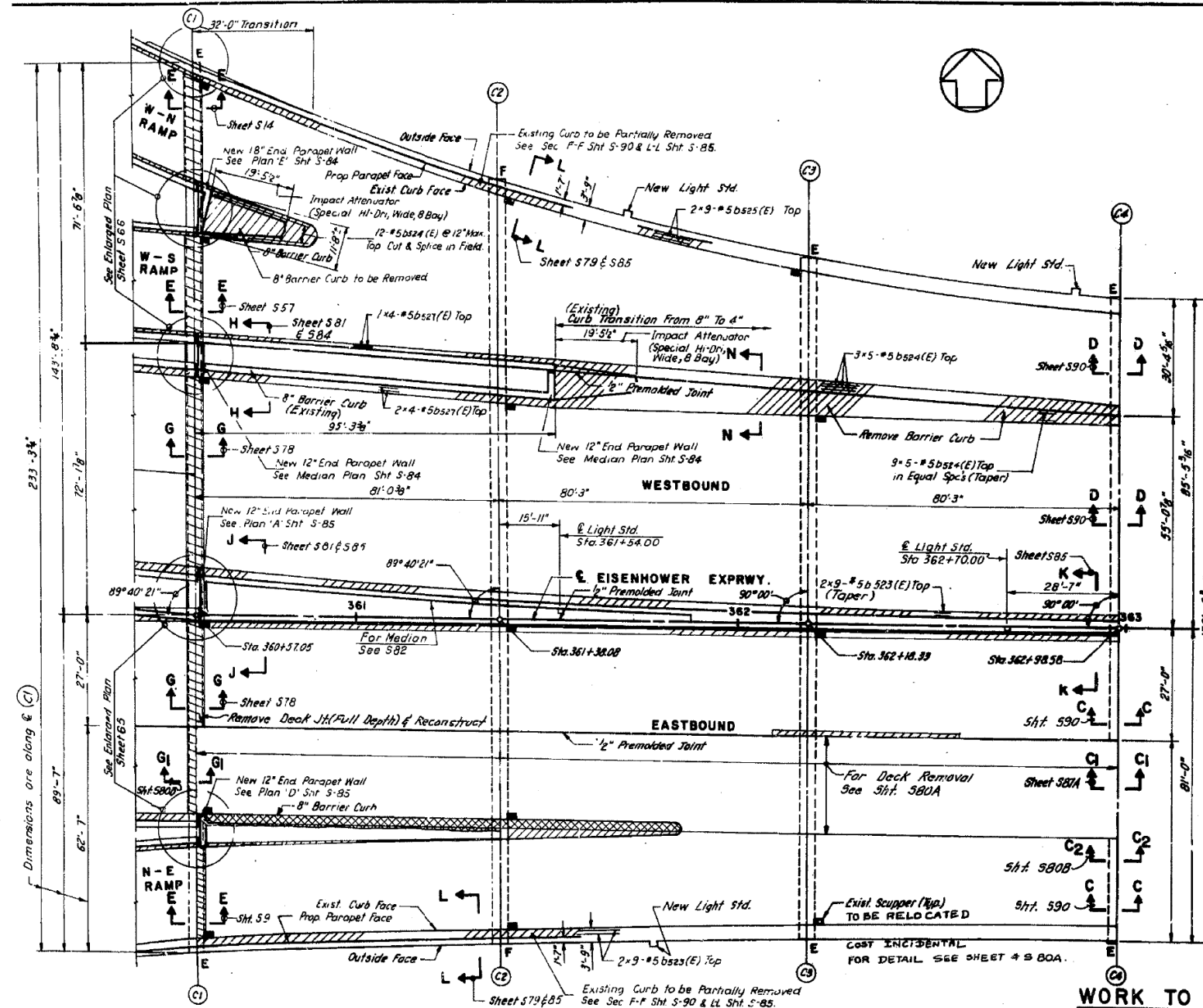
Note:
All Bars shown on this Sheet are billed on sheet 584

Min. Lap: 1'-8" For #5 Bars

Bars Indicated Thus 2x9-#5 etc., Indicate 2 Lines of Bars With 9 Lengths per Line.

WORK TO BE PERFORMED

- 1- REMOVE EXISTING DECK SLAB FROM E. EASTBOUND TO E BEAM (B). REMOVE EXISTING OVERLAY FROM ENTIRE AREA.
- 2- REMOVE HANDRAIL AND PART OF EXISTING CURB AS WELL AS THE MEDIAN GUARDRAIL AND PART OF EXISTING MEDIAN, IF ANY, AS SHOWN ON THE CROSS-SECTIONS
- 3- REMOVE ALL LOOSE AND DETERIORATED CONCRETE FROM DECK AT LOCATIONS MARKED BY THE ENGINEER
- 4- RECONSTRUCT DECK SLAB FROM E. EASTBOUND TO E BEAM (B) USING EPOXY COATED TOP REINFORCEMENT. REPAIR REMAINDER OF DECK SLAB WITH CONCRETE.
- 5- CONSTRUCT CONCRETE PARAPET AND MEDIAN
- 6- RECONSTRUCT DECK EXPANSION JOINTS
- 7- WATERPROOF AND RESURFACE DECK WITH 1/2" BIT. SURF. COURSE
- 8- REPAIR SUBSTRUCTURES AS REQUIRED



PLAN

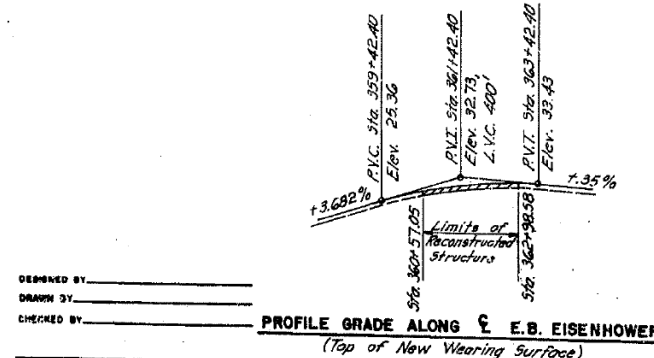
BENT (C) TO BENT (C4)

DESIGN SPECIFICATIONS

1977 A.A.S.H.T.O. and Interim Specifications as Applicable

DESIGN STRESSES (NEW CONSTR.)

$f'_c = 3,500$ p.s.i., Deck Slab, Curb, Parapet
 $f_y = 60,000$ p.s.i., Reinforcement



DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
GENERAL PLAN
BENT C1 TO BENT C4
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS
Rev. 7-9-75



USER NAME =	ahmad,issa	DESIGNED -	REVISIONS -
PLOT SCALE =	N.T.S	CHECKED -	REVISIONS -
PLOT DATE =	7/26/2018	DRAWN -	REVISIONS -
		CHECKED -	REVISIONS -
		MI, MAI	REVISIONS -

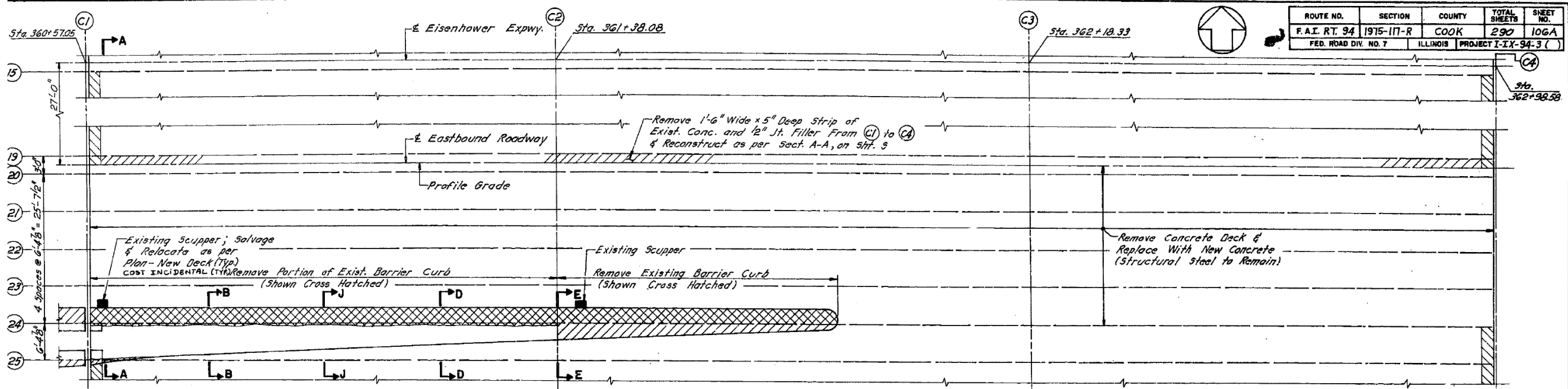
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

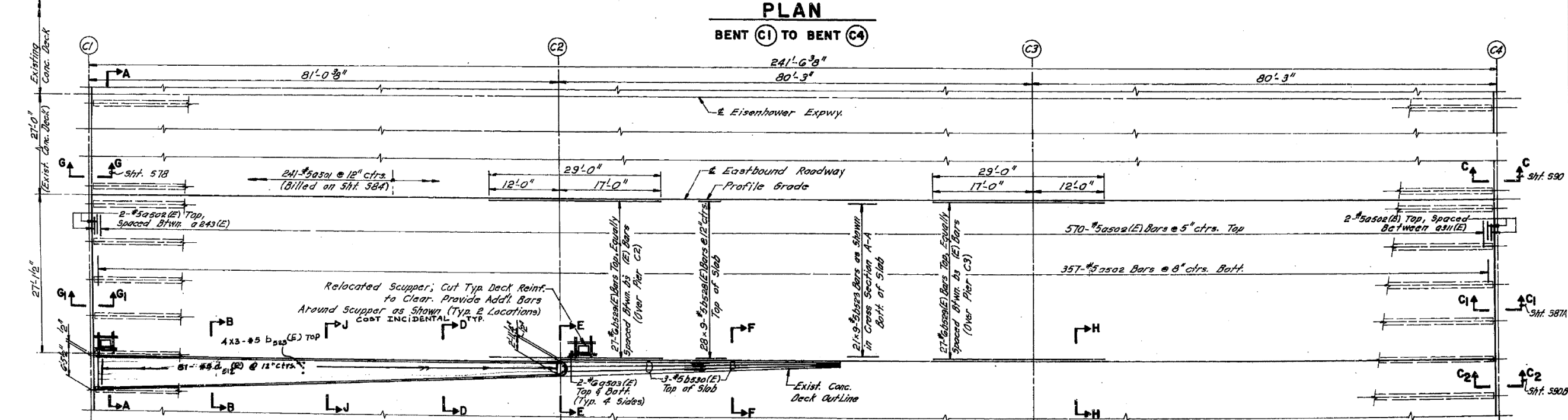
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1882
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FILE NAME: D:\V1617479-PWINT-accomonline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing394

FOR INFORMATION ONLY



PLAN
BENT C1 TO BENT C4



PLAN-NEW DECK

Min. Lap: 1'-8" For #5 Bars
Bars Indicated Thus 28x9-#5 etc., Indicate 28 Lines of Bars With 9 Length per Line.

NOTE:
For Sections A-A, B-B, J-J, D-D Thru F-F, H-H and 61-61, See Sht. 580B

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
PLANS
BENT C1 TO BENT C4

F.A.I. RT. 94	COOK COUNTY SECTION 1975-117-R	SHEET NO. 106A
CHRISTIAN-ROBE AND ASSOC. ENGINEERS CHICAGO, ILLINOIS	REVISIONS	REV. 5/11/80 CIR RCB ADDED NUMBER RCL

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

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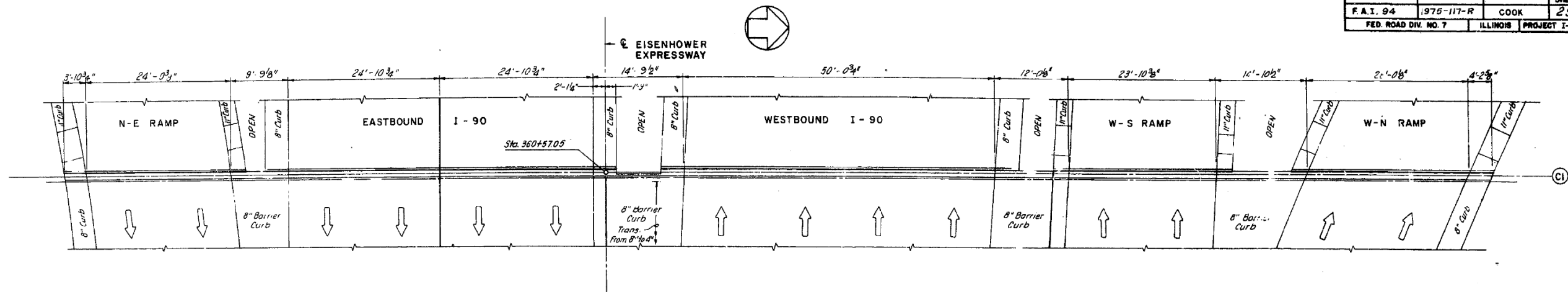
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

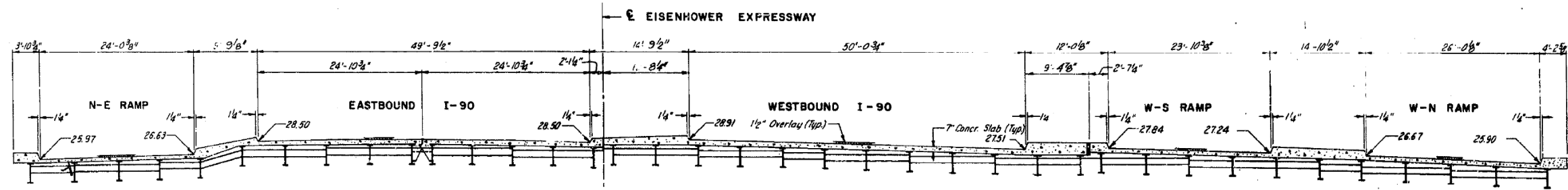
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CONTRACT NO. 60X93				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

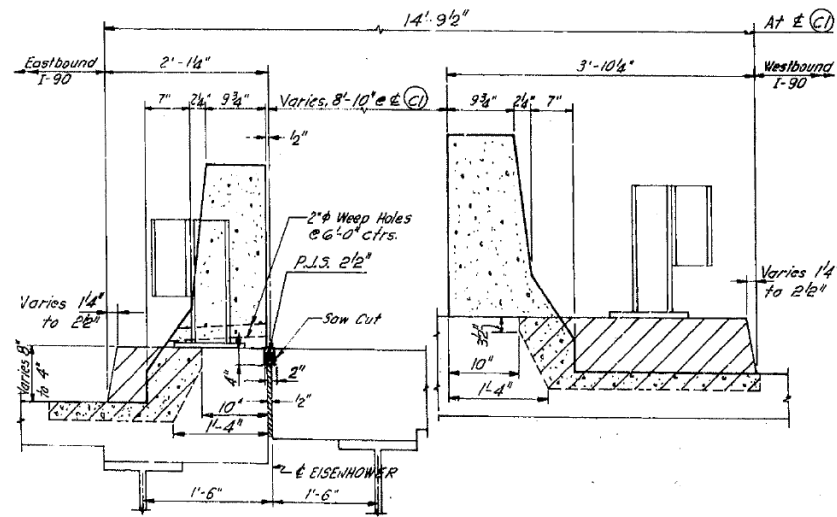
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F.A.I. 94	1975-117-R	COOK	230	107
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3C		



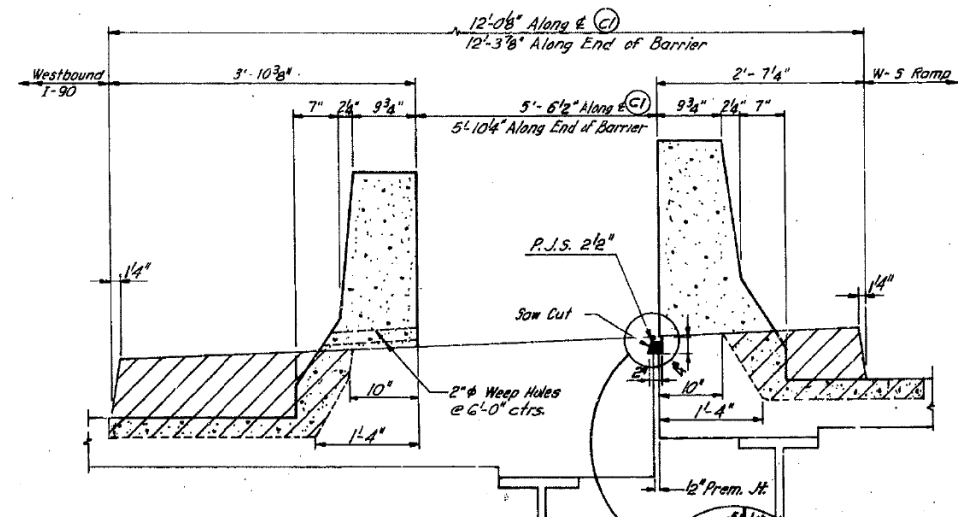
PLAN AT BENT C1



SECTION AT BENT C1
LOOKING WEST



SECTION J-J



SECTION H-H

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
DECK DETAILS AT BENT C1
BENT C1 TO BENT C4
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
501 OF

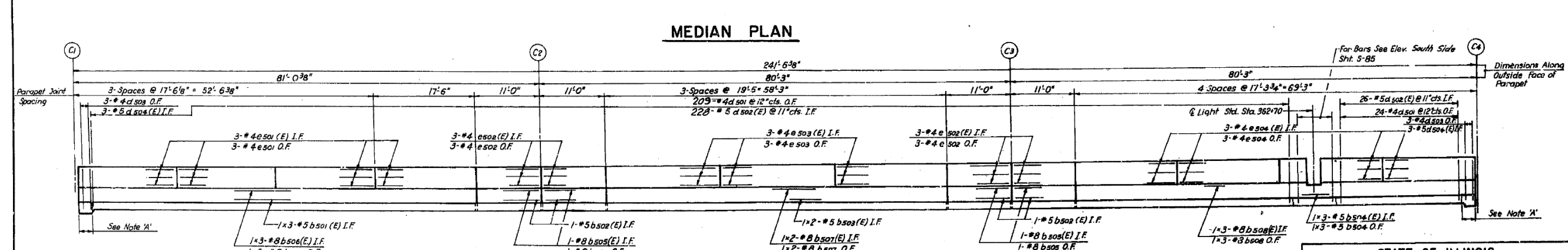
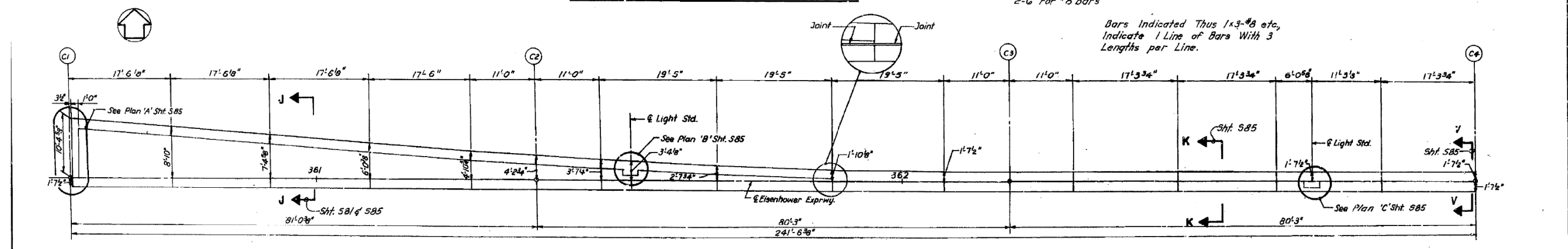
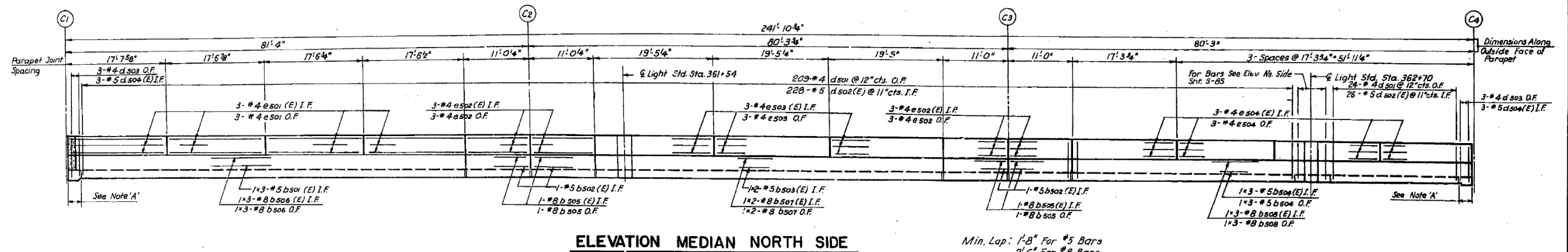
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PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1885
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

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FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 94	1975-117-R	COOK	290	108
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-1X-94-31		



DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

NOTE:
All Bars Shown on This Sheet Are Billed on Sht. 585.
For Bill of Material See Sht. 585.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
MEDIAN
BENT C1 TO BENT C4
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROGE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

FILE NAME: DWG:\161749-PWINT-aecomonline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing398



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
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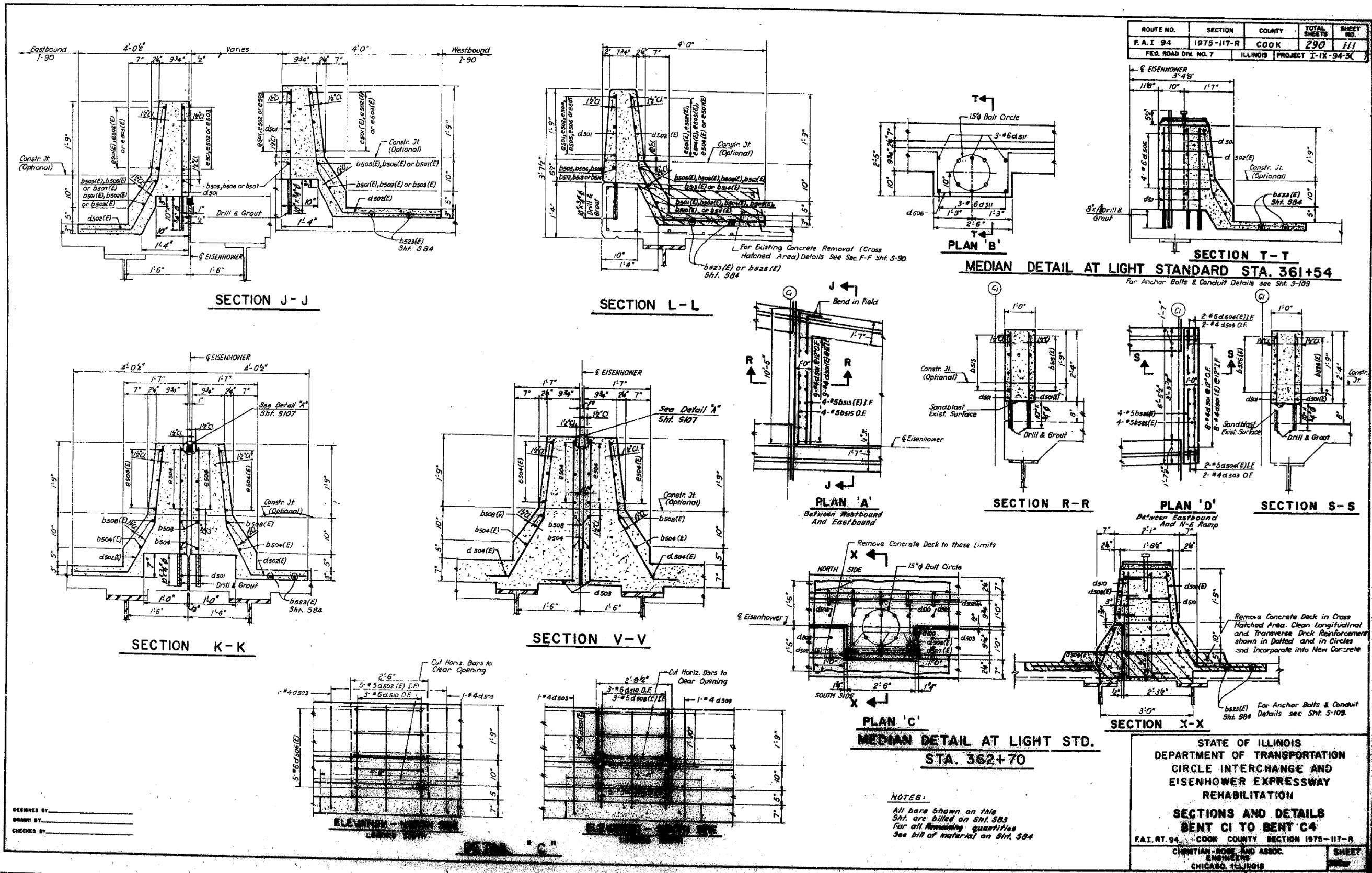
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1886
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



FILE NAME: D:\V1617479-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing401



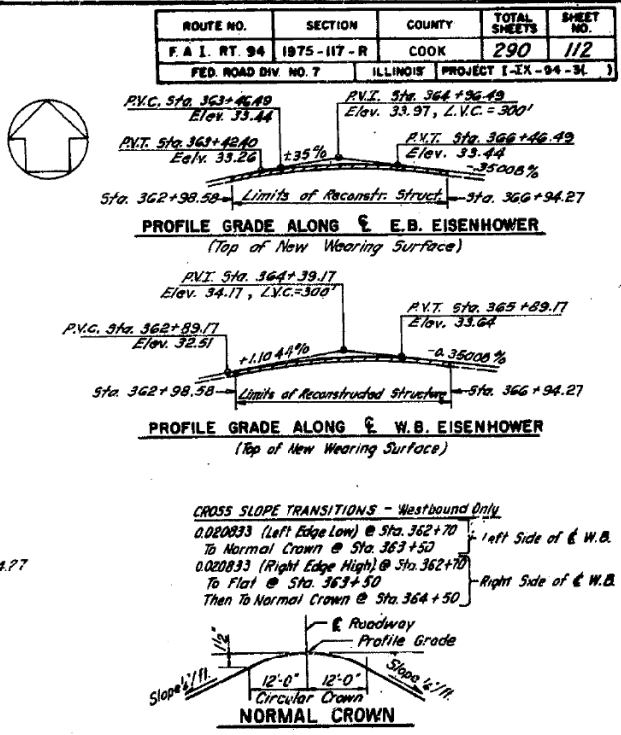
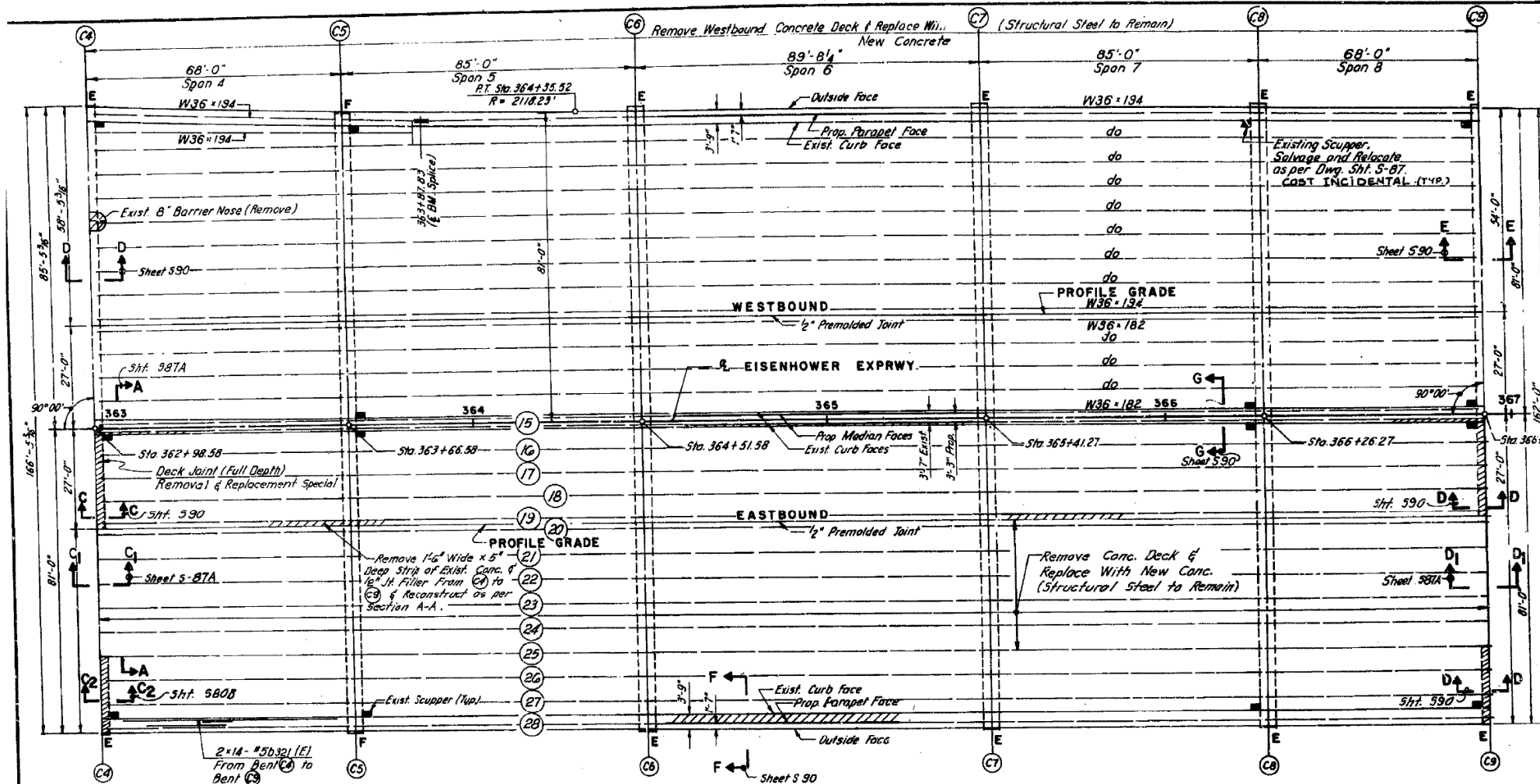
USER NAME =	ahmad,issa	DESIGNED -	REVISD -
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PLOT DATE =	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -
		MI, MAI	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

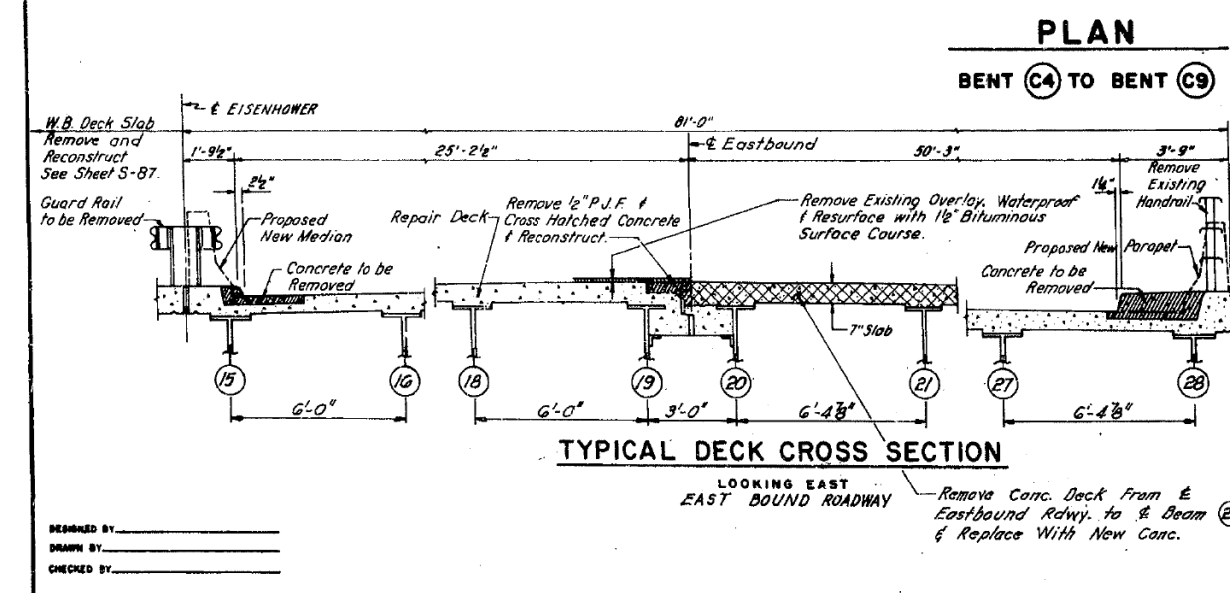
F. A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1889
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPERSTR	SUBSTR	TOTAL
Bridge Deck Overlay Removal	Sq. Yd.	1,830		1,830
Deck Slab Repair (Partial)	Sq. Yd.	58		58
Deck Slab Repair (Full Depth)	Sq. Yd.	6		6
Bit. Concrete Surface Course	Ton	580		580
Class X Concrete	Cu. Yd.	1,292		1,292
Reinforcement Bars	Lb.	124,160		124,160
Reinforcement Bars (Epoxy Coated)	Lb.	211,900		211,900
Concrete Removal	Cu. Yd.	59.3		59.3
Waterproofing Membrane System	Sq. Yd.	688.9		688.9
Protective Coat	Sq. Yd.	668		668
Neoprene Expansion Joint 4"	Lin. Ft.	173		173
Neoprene Expansion Joint 6"	Lin. Ft.	169		169
Deck Jt. (Full Depth) Rem. & Repl. Special	Sq. Yd.	52		52
Removal of Existing Superstructure No. 5	Eq.	1		1
Removal of Exist. Superstructure No. 6B	Eq.	1		1
Repair Concrete Structures	Sq. Ft.		70	70
Resetting Expansion Bearings	Eq.		16	16
Preformed Joint Sealer 2 1/2"	Lin. Ft.		386	386



WORK TO BE PERFORMED

- West Bound Roadway**
- Remove Existing Deck Slab.
 - Reconstruct Deck Slab Using Epoxy Coated Top Reinforcement, Waterproof and Resurface with 1 1/2" Bituminous Surface Course.
 - Repair Substructures as Required.
- East Bound Roadway**
- Remove Existing Overlay, & Existing Deck Slab From E. Eastbound to E. Beam (25).
 - Remove Handrail and Part of Existing Curb as well as the Median Guardrail and Part of Existing Median as shown on the Cross-Sections.
 - Remove all Loose and Deteriorated Concrete from Deck at Locations Marked by the Engineer.
 - Reset Expansion Bearings.
 - Reconstruct Deck Slab From E.B. to Beam (25) Using Epoxy Coated Top Reinforcement & Repair Remaining of Deck Slab With Conc.
 - Construct Concrete Parapet and Median.
 - Reconstruct Deck Expansion Joints.
 - Eliminate Longitudinal Expansion Joint.
 - Waterproof and Resurface Deck with 1 1/2" Bituminous Surface Course.
 - Repair Substructures as Required.

For General Notes See Sht. 580.
Expansion Bearings to be Reset are Located on Pier (24) and 8 on (29).

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
GENERAL PLAN
BENT C4 TO BENT C9
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROBE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS
SHEET
REV. 10-18-80

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USER NAME =	ahmad,issa	DESIGNED -	REVISD -
PLOT SCALE =	N.T.S	CHECKED -	REVISD -
PLOT DATE =	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -

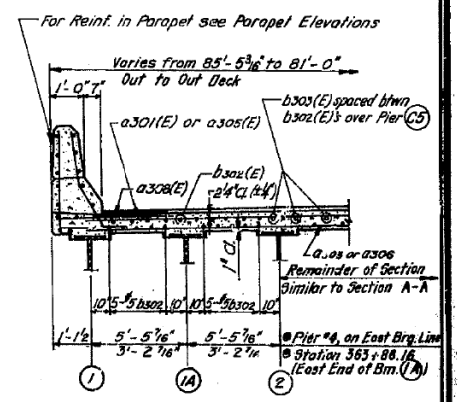
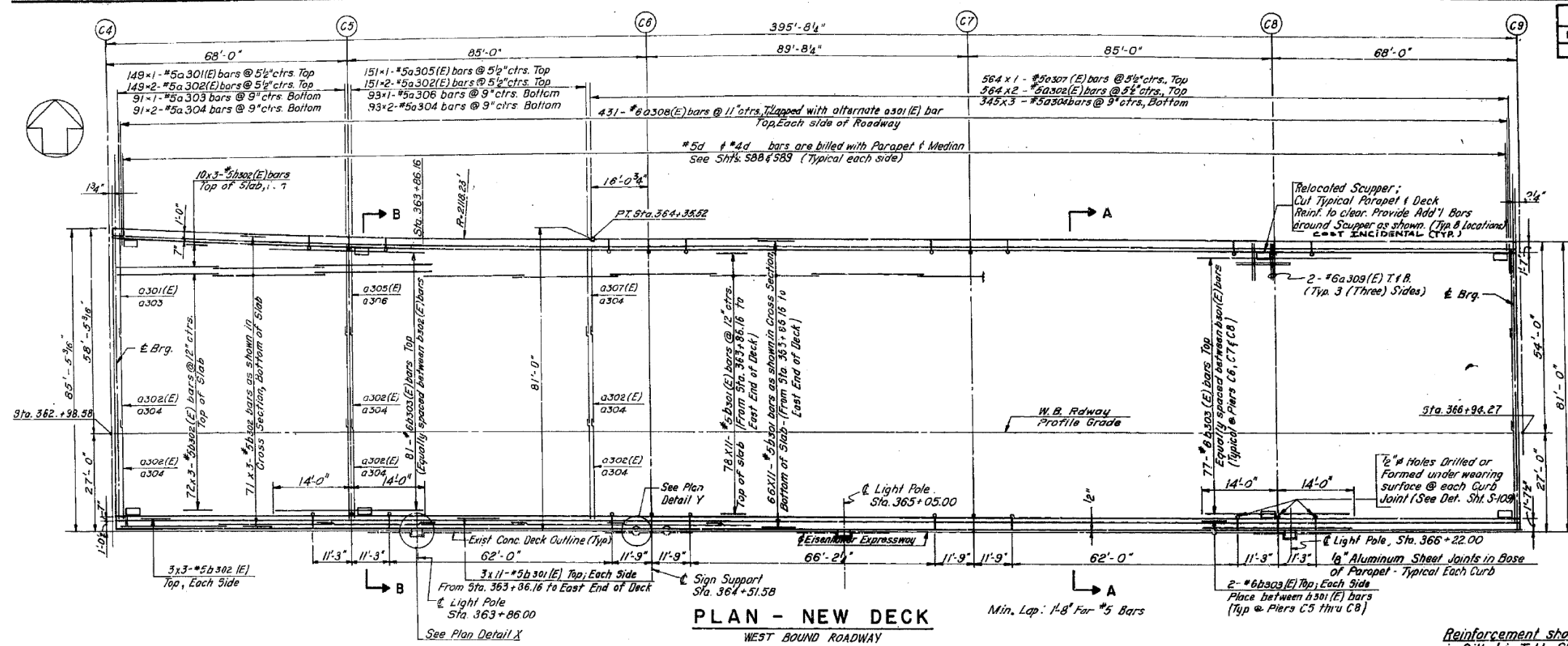
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1890
CONTRACT NO. 60X93				

FOR INFORMATION ONLY

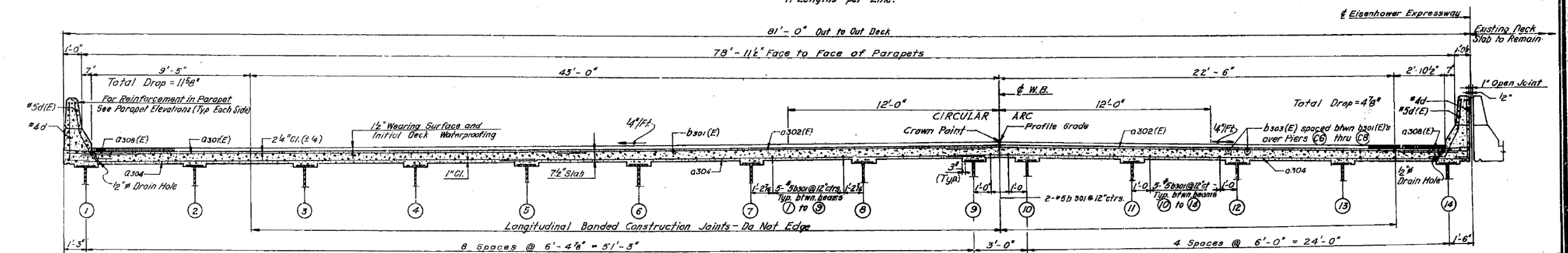
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F.A.I. 94	1975-117-R	COOK	290	113
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3(C)		



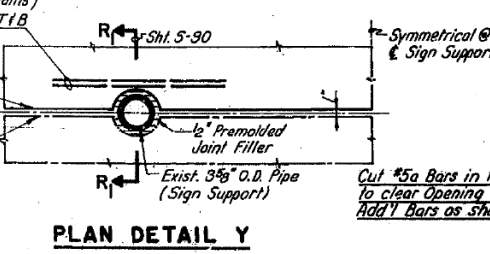
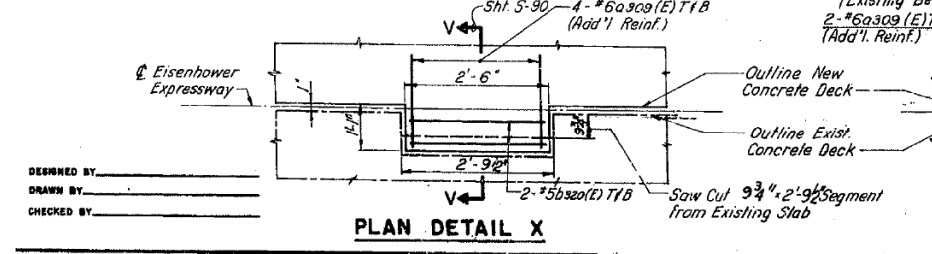
PLAN - NEW DECK
WEST BOUND ROADWAY

CROSS SECTION B-B
(FROM STA. 362+98.58 TO STA. 364+35.52)

Reinforcement shown on this sheet is Billed in Table Sheet S-88.



CROSS SECTION A-A
(FROM STA. 364+35.52 TO STA. 366+94.27)



PLAN DETAIL X

PLAN DETAIL Y

DESIGN SPECIFICATIONS
1977 A.A.S.H.T.O. and Interim Specifications as Applicable
DESIGN STRESSES (NEW CONSTR.)
f_c = 3,500 p.s.i., Deck Slab, Curb, Parapet
f_y = 60,000 p.s.i., Reinforcement

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
SUPERSTRUCTURE
BENT C4 TO BENT C9
F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN ROSE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

DESIGNED BY
DRAWN BY
CHECKED BY

USER NAME = ahmad,issa
DESIGNED -
CHECKED -
PLOT SCALE = N.T.S.
DRAWN -
PLOT DATE = 7/26/2018
CHECKED - MI, MAI

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

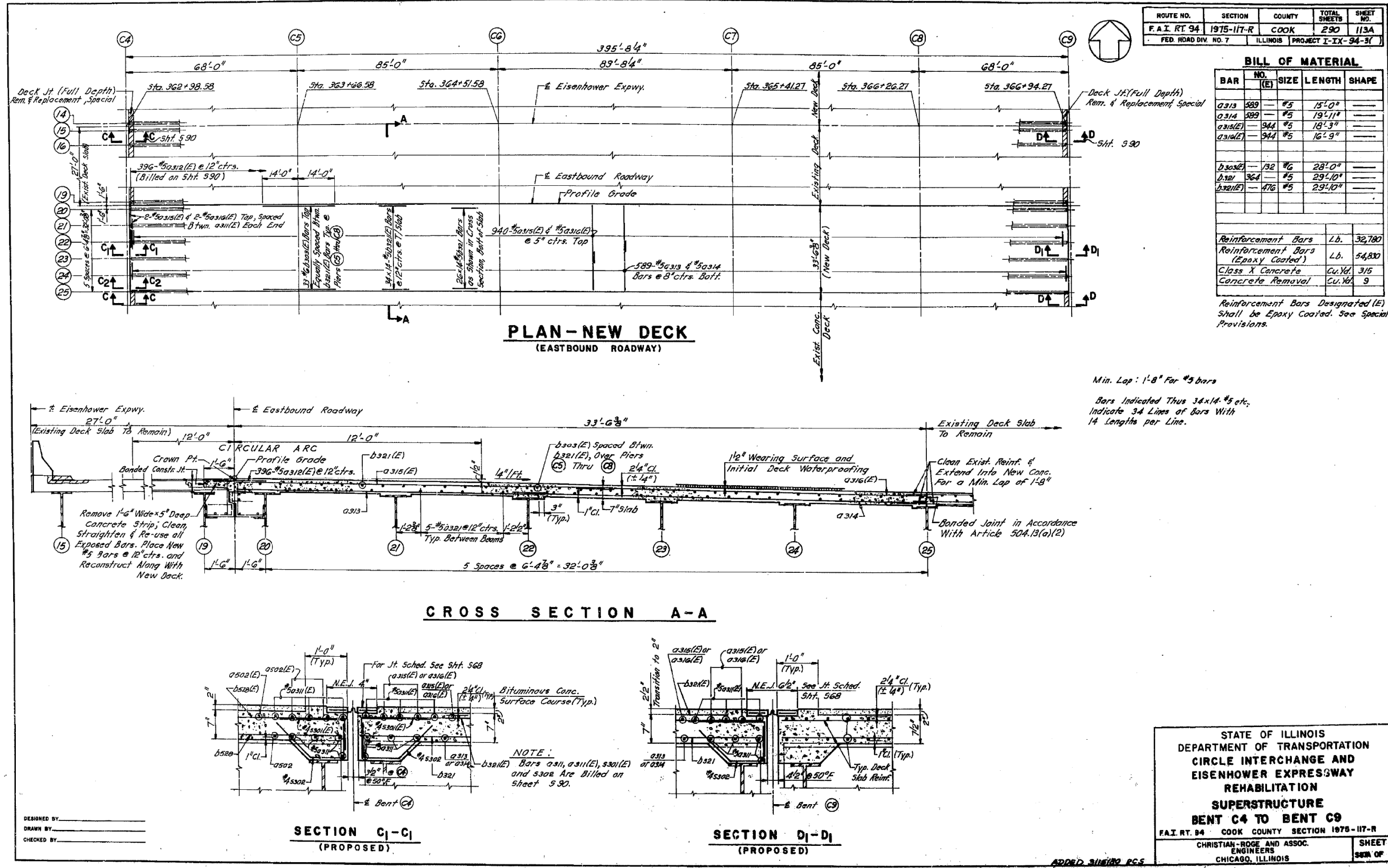
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90/94/290	2014-013R&B-R	COOK	1972	1891
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FILE NAME: p:\v161749-P\INT-aecon\line\local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing.dwg



FOR INFORMATION ONLY



FILE NAME: D:\V1617479-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_CirclePhase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing404



USER NAME =	ahmad,issa	DESIGNED -	REVISD -
PLOT SCALE =	N.T.S	CHECKED -	REVISD -
PLOT DATE =	7/26/2018	DRAWN -	REVISD -
		CHECKED -	REVISD -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

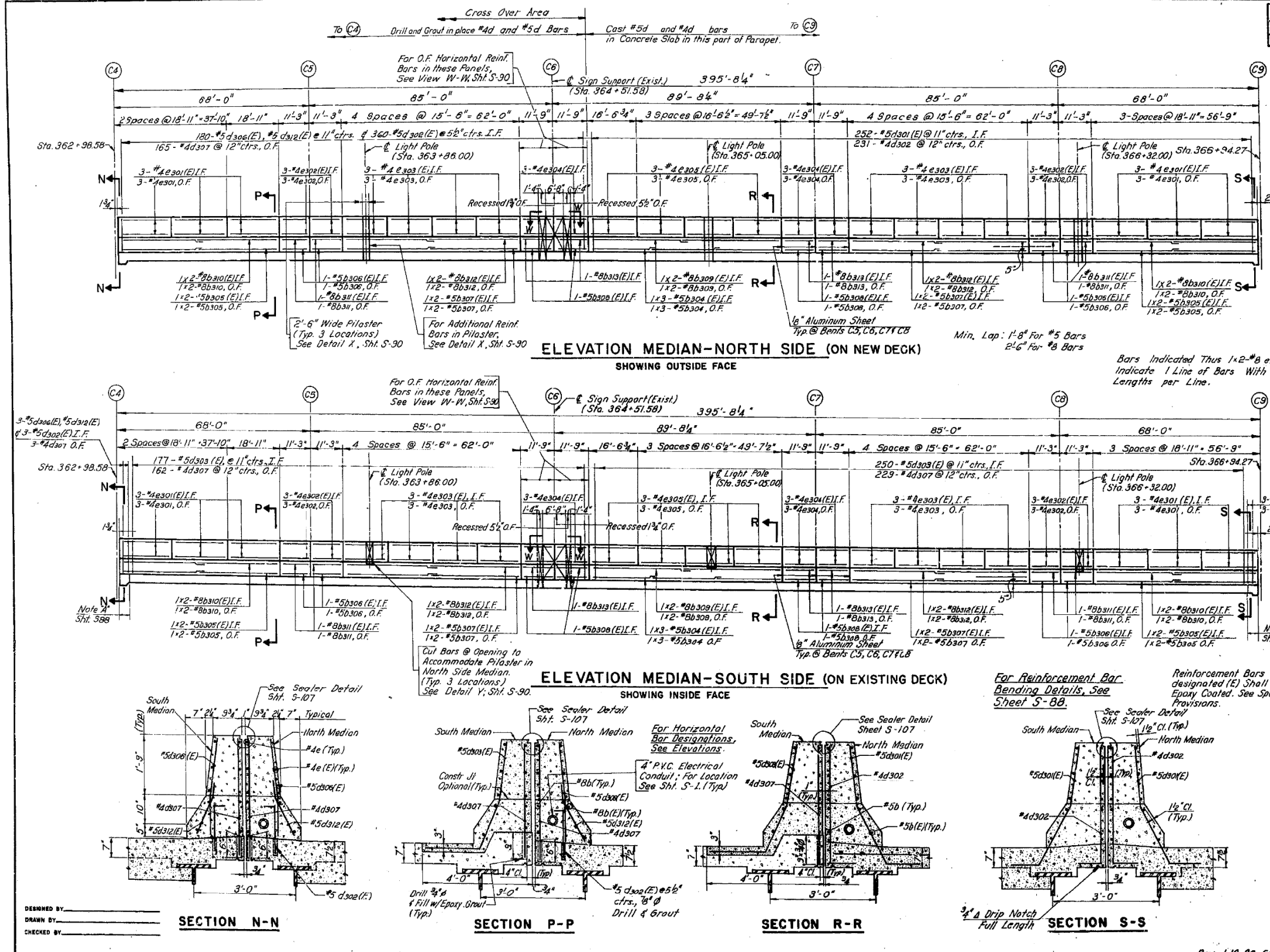
EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1892
CONTRACT NO. 60X93				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 94	1975-117-R	COOK	290	115
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-X-94-3		



BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
b304	6	23'-2"	
b304(E)	6	23'-2"	
b305	8	29'-0"	
b305(E)	8	29'-0"	
b306	8	10'-11"	
b306(E)	8	10'-11"	
b307	8	31'-8"	
b307(E)	8	31'-8"	
b308	4	11'-5"	
b308(E)	4	11'-5"	
b309	4	34'-3"	
b309(E)	4	34'-3"	
b310	8	29'-5"	
b310(E)	8	29'-5"	
b311	8	10'-11"	
b311(E)	8	10'-11"	
b312	8	32'-1"	
b312(E)	8	32'-1"	
b313	8	11'-5"	
b313(E)	8	11'-5"	
b314	4	7'-3"	
b315	2	4'-0"	
b316	2	7'-2"	
b317	4	7'-3"	
b318	2	4'-0"	
b319	2	7'-2"	
d301(E)	255	5	3'-11"
d302	234	4	4'-4"
d302(E)	363	5	2'-2"
d303(E)	427	5	5'-5"
d306(E)	183	5	2'-8"
d307	559	4	3'-2"
d308(E)	6	6	4'-4"
d309(E)	15	6	8'-11"
d310(E)	9	4	1'-5"
d311(E)	9	4	5'-3"
d312(E)	183	5	2'-4"
d301(E)	6	6	3'-4"
e301	36	4	18'-6"
e301(E)	36	4	18'-6"
e302	24	4	10'-11"
e302(E)	24	4	10'-11"
e303	48	4	15'-2"
e303(E)	48	4	15'-2"
e304	12	4	11'-5"
e304(E)	24	4	11'-5"
e305	24	4	16'-3"
e305(E)	24	4	16'-3"
e306	12	4	7'-3"
e307	8	4	4'-0"
e308	6	4	7'-2"
Reinforcement Bars	Lb.	6,570	
Reinf. Bars (Epoxy Coated)	Lb.	9,960	
Class X Concrete	Cu. Yd.	99.7	
Concrete Removal	Cu. Yd.	12.2	
Protective Coat	Sq. Yd.	341.3	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
MEDIAN
BENT C4 TO BENT C9
F. A. I. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROGE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
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FILE NAME: p:\v161749-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269338_CirclePhase_I\0000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing405



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

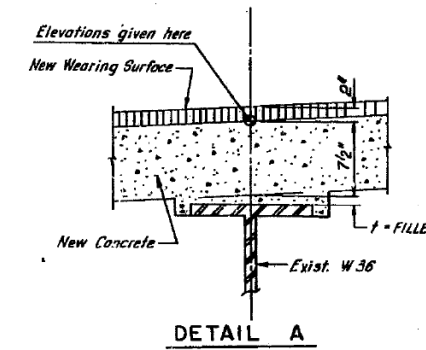
EXISTING RECORD DRAWINGS

F. A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1894
				CONTRACT NO. 60X93
				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

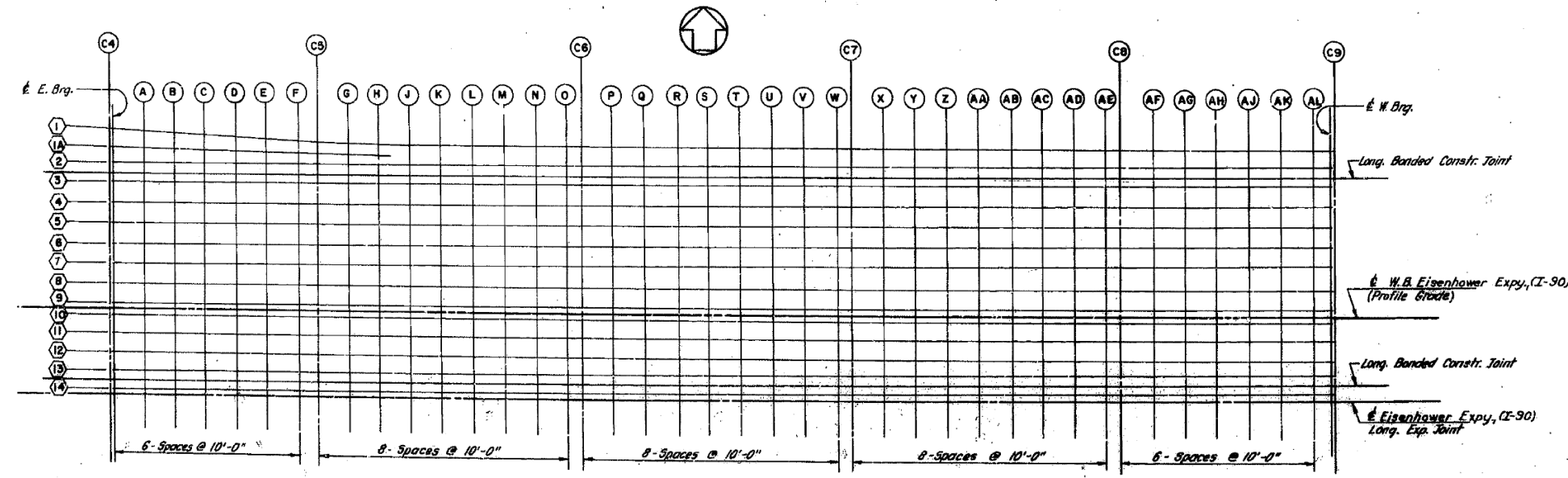
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	117
FED ROAD DIV NO. 7	ILLINOIS	PROJECT 1-1K-94-3		

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.
E BRG PIER C4	36299.412	-57.250	31.352	31.352	E BRG PIER C4	36299.412	-51.794	31.466	31.466	E BRG PIER C4	36299.412	-46.343	31.579	31.579
A	36309.412	-56.741	31.482	31.500	A	36309.412	-51.537	31.590	31.609	A	36309.412	-46.343	31.698	31.717
B	35919.412	-56.232	31.606	31.638	B	36319.412	-51.278	31.709	31.741	B	36319.412	-46.343	31.812	31.843
C	36329.412	-55.723	31.728	31.757	C	36329.412	-51.018	31.824	31.855	C	36329.412	-46.343	31.921	31.953
D	36339.412	-55.214	31.861	31.866	D	36339.412	-50.759	31.934	31.959	D	36339.412	-46.343	32.026	32.051
E	36349.412	-54.705	31.951	31.967	E	36349.412	-50.499	32.039	32.055	E	36349.412	-46.343	32.125	32.141
F	36359.412	-54.196	32.041	32.048	F	36359.412	-50.240	32.124	32.130	F	36359.412	-46.343	32.205	32.211
PIER C5	36366.578	-53.691	32.102	32.102	PIER C5	36366.578	-50.054	32.181	32.181	PIER C5	36366.578	-46.343	32.258	32.258
G	36376.578	-53.322	32.184	32.193	G	36376.578	-49.795	32.257	32.267	G	36376.578	-46.343	32.329	32.338
H	36386.578	-52.814	32.260	32.279	H	36386.578	-49.535	32.328	32.348	H	36386.578	-46.343	32.394	32.414
J	36396.578	-52.750	32.322	32.349	J	36396.578	-49.276	32.397	32.417	J	36396.578	-46.343	32.459	32.482
K	36406.578	-52.750	32.378	32.412	K	36406.578	-49.017	32.466	32.486	K	36406.578	-46.343	32.511	32.546
L	36416.578	-52.750	32.429	32.458	L	36416.578	-48.758	32.535	32.555	L	36416.578	-46.343	32.562	32.591
M	36426.578	-52.750	32.475	32.494	M	36426.578	-48.499	32.604	32.624	M	36426.578	-46.343	32.608	32.628
N	36436.578	-52.750	32.517	32.528	N	36436.578	-48.240	32.673	32.693	N	36436.578	-46.343	32.650	32.661
O	36446.578	-52.750	32.553	32.557	O	36446.578	-47.981	32.742	32.762	O	36446.578	-46.343	32.686	32.700
PIER C6	36451.578	-52.750	32.570	32.570	PIER C6	36451.578	-47.722	32.811	32.831	PIER C6	36451.578	-46.343	32.703	32.703
P	36461.578	-52.750	32.599	32.613	P	36461.578	-47.463	32.880	32.900	P	36461.578	-46.343	32.732	32.776
Q	36471.578	-52.750	32.623	32.651	Q	36471.578	-47.204	32.949	32.979	Q	36471.578	-46.343	32.756	32.784
R	36481.578	-52.750	32.643	32.681	R	36481.578	-46.945	33.018	33.048	R	36481.578	-46.343	32.776	32.814
S	36491.578	-52.750	32.658	32.705	S	36491.578	-46.686	33.087	33.134	S	36491.578	-46.343	32.791	32.838
T	36501.578	-52.750	32.667	32.715	T	36501.578	-46.427	33.156	33.203	T	36501.578	-46.343	32.801	32.848
U	36511.578	-52.750	32.672	32.710	U	36511.578	-46.168	33.225	33.272	U	36511.578	-46.343	32.806	32.844
V	36521.578	-52.750	32.673	32.700	V	36521.578	-45.909	33.294	33.341	V	36521.578	-46.343	32.806	32.833
W	36531.578	-52.750	32.668	32.681	W	36531.578	-45.650	33.363	33.410	W	36531.578	-46.343	32.801	32.819
PIER C7	36541.264	-52.750	32.659	32.659	PIER C7	36541.264	-45.391	33.432	33.479	PIER C7	36541.264	-46.343	32.792	32.792
X	36551.264	-52.750	32.645	32.652	X	36551.264	-45.132	33.501	33.548	X	36551.264	-46.343	32.778	32.785
Y	36561.264	-52.750	32.626	32.640	Y	36561.264	-44.873	33.570	33.617	Y	36561.264	-46.343	32.759	32.774
Z	36571.264	-52.750	32.602	32.626	Z	36571.264	-44.614	33.639	33.686	Z	36571.264	-46.343	32.735	32.759
AA	36581.264	-52.750	32.573	32.607	AA	36581.264	-44.355	33.708	33.755	AA	36581.264	-46.343	32.706	32.740
AB	36591.264	-52.750	32.539	32.570	AB	36591.264	-44.096	33.777	33.824	AB	36591.264	-46.343	32.673	32.704
AC	36601.264	-52.750	32.504	32.528	AC	36601.264	-43.837	33.846	33.893	AC	36601.264	-46.343	32.638	32.661
AD	36611.264	-52.750	32.469	32.488	AD	36611.264	-43.578	33.915	33.962	AD	36611.264	-46.343	32.603	32.617
AE	36621.264	-52.750	32.434	32.439	AE	36621.264	-43.319	33.984	34.031	AE	36621.264	-46.343	32.568	32.573
PIER C8	36626.264	-52.750	32.417	32.417	PIER C8	36626.264	-43.060	34.053	34.100	PIER C8	36626.264	-46.343	32.550	32.550
AF	36636.264	-52.750	32.382	32.391	AF	36636.264	-42.801	34.122	34.169	AF	36636.264	-46.343	32.515	32.524
AG	36646.264	-52.750	32.347	32.366	AG	36646.264	-42.542	34.191	34.238	AG	36646.264	-46.343	32.480	32.499
AH	36656.264	-52.750	32.312	32.340	AH	36656.264	-42.283	34.260	34.307	AH	36656.264	-46.343	32.445	32.473
AJ	36666.264	-52.750	32.277	32.308	AJ	36666.264	-42.024	34.329	34.376	AJ	36666.264	-46.343	32.410	32.441
AK	36676.264	-52.750	32.242	32.273	AK	36676.264	-41.765	34.398	34.445	AK	36676.264	-46.343	32.375	32.406
AL	36686.264	-52.750	32.207	32.220	AL	36686.264	-41.506	34.467	34.514	AL	36686.264	-46.343	32.340	32.353
W BRG PIER C9	36693.431	-52.750	32.182	32.182	W BRG PIER C9	36693.431	-41.247	34.536	34.583	W BRG PIER C9	36693.431	-46.343	32.315	32.315



FILLET HEIGHTS
 To determine "t" as shown in DETAIL A: After all existing concrete superstructure has been demolished and removed from each span, elevations of the top flanges of the beams shall be taken at intervals shown in Plan. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown in tables minus slab thickness, equals the fillet heights "t" above the top flange of beams.

NOTE: All elevations in the tables are given at the top of the concrete deck as shown in DETAIL A.



PLAN

DESIGNED BY: _____
 DRAWN BY: _____
 CHECKED BY: _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
 ELEVATIONS
 I-90 W.B. BENT C4 TO BENT C9
 F.A.I. RT. 94 COOK COUNTY SECTION 1975-117-R
 CHRISTIAN, SPOFFORD AND ASSOC.
 CHICAGO, ILLINOIS

FILE NAME: D:\V1617479-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938 Circle\Phase_1\000_CAD\008_Structural\Structure_016-1718\Existing Plans\33906-60X93-SXX-Existing.dwg



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -	MI, MAI	REVISED -	
		CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

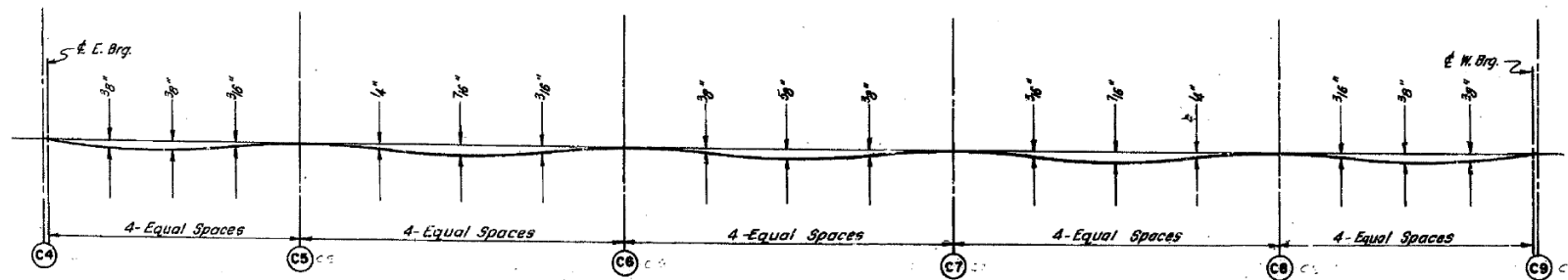
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1896
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFL.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFL.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFL.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEFL.
E BRG PIER C4	36299.412	-42.999	31.649	31.649	E BRG PIER C4	36299.412	-39.937	31.713	31.713	E BRG PIER C4	36299.412	-39.931	31.846	31.846	E BRG PIER C4	36299.412	-27.124	31.980	31.980
A	36309.412	-42.999	31.748	31.748	A	36309.412	-39.937	31.832	31.832	A	36309.412	-39.931	31.965	31.965	A	36309.412	-27.124	32.098	32.098
B	36319.412	-42.999	31.802	31.802	B	36319.412	-39.937	31.945	31.945	B	36319.412	-39.931	32.079	32.079	B	36319.412	-27.124	32.212	32.212
C	36329.412	-42.999	31.991	31.991	C	36329.412	-39.937	32.055	32.055	C	36329.412	-39.931	32.110	32.110	C	36329.412	-27.124	32.249	32.249
D	36339.412	-42.999	32.095	32.120	D	36339.412	-39.937	32.159	32.184	D	36339.412	-39.931	32.188	32.219	D	36339.412	-27.124	32.321	32.352
E	36349.412	-42.999	32.211	32.211	E	36349.412	-39.937	32.258	32.274	E	36349.412	-39.931	32.292	32.317	E	36349.412	-27.124	32.429	32.451
F	36359.412	-42.999	32.274	32.281	F	36359.412	-39.937	32.338	32.345	F	36359.412	-39.931	32.407	32.407	F	36359.412	-27.124	32.525	32.541
PIER C5	36366.578	-42.999	32.328	32.328	PIER C5	36366.578	-39.937	32.391	32.391	PIER C5	36366.578	-39.931	32.471	32.478	PIER C5	36366.578	-27.124	32.604	32.611
G	36376.578	-42.999	32.398	32.408	G	36376.578	-39.937	32.462	32.472	G	36376.578	-39.931	32.545	32.545	G	36376.578	-27.124	32.658	32.658
H	36386.578	-42.999	32.454	32.463	H	36386.578	-39.937	32.528	32.547	H	36386.578	-39.931	32.611	32.630	H	36386.578	-27.124	32.794	32.794
J	36396.578	-42.999	32.525	32.532	J	36396.578	-39.937	32.588	32.616	J	36396.578	-39.931	32.661	32.680	J	36396.578	-27.124	32.794	32.814
K	36406.578	-42.999	32.581	32.615	K	36406.578	-39.937	32.644	32.678	K	36406.578	-39.931	32.722	32.749	K	36406.578	-27.124	32.855	32.882
L	36416.578	-42.999	32.632	32.661	L	36416.578	-39.937	32.695	32.725	L	36416.578	-39.931	32.778	32.812	L	36416.578	-27.124	32.911	32.945
M	36426.578	-42.999	32.678	32.697	M	36426.578	-39.937	32.742	32.761	M	36426.578	-39.931	32.829	32.858	M	36426.578	-27.124	32.962	32.991
N	36436.578	-42.999	32.719	32.730	N	36436.578	-39.937	32.785	32.794	N	36436.578	-39.931	32.896	32.896	N	36436.578	-27.124	33.027	33.027
O	36446.578	-42.999	32.756	32.760	O	36446.578	-39.937	32.823	32.823	O	36446.578	-39.931	32.916	32.927	O	36446.578	-27.124	33.050	33.051
PIER C6	36451.578	-42.999	32.772	32.772	PIER C6	36451.578	-39.937	32.836	32.836	PIER C6	36451.578	-39.931	32.969	32.969	PIER C6	36451.578	-27.124	33.103	33.103
P	36461.578	-42.999	32.802	32.816	P	36461.578	-39.937	32.865	32.879	P	36461.578	-39.931	32.999	33.013	P	36461.578	-27.124	33.132	33.146
Q	36471.578	-42.999	32.826	32.854	Q	36471.578	-39.937	32.890	32.918	Q	36471.578	-39.931	33.023	33.051	Q	36471.578	-27.124	33.156	33.184
R	36481.578	-42.999	32.846	32.884	R	36481.578	-39.937	32.909	32.948	R	36481.578	-39.931	33.043	33.081	R	36481.578	-27.124	33.176	33.214
S	36491.578	-42.999	32.860	32.908	S	36491.578	-39.937	32.924	32.972	S	36491.578	-39.931	33.057	33.105	S	36491.578	-27.124	33.176	33.214
T	36501.578	-42.999	32.870	32.918	T	36501.578	-39.937	32.934	32.981	T	36501.578	-39.931	33.071	33.119	T	36501.578	-27.124	33.191	33.228
U	36511.578	-42.999	32.875	32.915	U	36511.578	-39.937	32.939	32.977	U	36511.578	-39.931	33.085	33.133	U	36511.578	-27.124	33.200	33.238
V	36521.578	-42.999	32.875	32.903	V	36521.578	-39.937	32.939	32.967	V	36521.578	-39.931	33.072	33.110	V	36521.578	-27.124	33.205	33.243
W	36531.578	-42.999	32.871	32.884	W	36531.578	-39.937	32.934	32.942	W	36531.578	-39.931	33.072	33.100	W	36531.578	-27.124	33.206	33.233
PIER C7	36541.264	-42.999	32.862	32.862	PIER C7	36541.264	-39.937	32.925	32.925	PIER C7	36541.264	-39.931	33.059	33.059	PIER C7	36541.264	-27.124	33.201	33.214
X	36551.264	-42.999	32.847	32.855	X	36551.264	-39.937	32.911	32.919	X	36551.264	-39.931	33.044	33.052	X	36551.264	-27.124	33.178	33.185
Y	36561.264	-42.999	32.826	32.843	Y	36561.264	-39.937	32.892	32.907	Y	36561.264	-39.931	33.025	33.040	Y	36561.264	-27.124	33.150	33.178
Z	36571.264	-42.999	32.804	32.829	Z	36571.264	-39.937	32.868	32.892	Z	36571.264	-39.931	33.001	33.026	Z	36571.264	-27.124	33.135	33.159
AA	36581.264	-42.999	32.776	32.810	AA	36581.264	-39.937	32.839	32.873	AA	36581.264	-39.931	32.973	33.007	AA	36581.264	-27.124	33.106	33.140
AB	36591.264	-42.999	32.742	32.773	AB	36591.264	-39.937	32.806	32.837	AB	36591.264	-39.931	32.939	32.970	AB	36591.264	-27.124	33.072	33.103
AC	36601.264	-42.999	32.707	32.731	AC	36601.264	-39.937	32.771	32.795	AC	36601.264	-39.931	32.904	32.928	AC	36601.264	-27.124	33.037	33.061
AD	36611.264	-42.999	32.687	32.687	AD	36611.264	-39.937	32.736	32.751	AD	36611.264	-39.931	32.869	32.884	AD	36611.264	-27.124	33.002	33.017
AE	36621.264	-42.999	32.637	32.642	AE	36621.264	-39.937	32.701	32.706	AE	36621.264	-39.931	32.834	32.839	AE	36621.264	-27.124	32.947	32.972
PIER C8	36626.264	-42.999	32.620	32.620	PIER C8	36626.264	-39.937	32.683	32.683	PIER C8	36626.264	-39.931	32.817	32.817	PIER C8	36626.264	-27.124	32.950	32.950
AF	36636.264	-42.999	32.585	32.594	AF	36636.264	-39.937	32.648	32.658	AF	36636.264	-39.931	32.782	32.791	AF	36636.264	-27.124	32.915	32.924
AG	36646.264	-42.999	32.550	32.568	AG	36646.264	-39.937	32.613	32.631	AG	36646.264	-39.931	32.747	32.765	AG	36646.264	-27.124	32.880	32.899
AH	36656.264	-42.999	32.515	32.543	AH	36656.264	-39.937	32.578	32.606	AH	36656.264	-39.931	32.712	32.740	AH	36656.264	-27.124	32.845	32.873
AJ	36666.264	-42.999	32.480	32.513	AJ	36666.264	-39.937	32.543	32.575	AJ	36666.264	-39.931	32.677	32.705	AJ	36666.264	-27.124	32.810	32.851
AK	36676.264	-42.999	32.445	32.476	AK	36676.264	-39.937	32.508	32.540	AK	36676.264	-39.931	32.642	32.673	AK	36676.264	-27.124	32.773	32.806
AL	36686.264	-42.999	32.410	32.423	AL	36686.264	-39.937	32.473	32.487	AL	36686.264	-39.931	32.607	32.620	AL	36686.264	-27.124	32.740	32.753
W BRG PIER C9	36693.431	-42.999	32.385	32.385	W BRG PIER C9	36693.431	-39.937	32.448	32.448	W BRG PIER C9	36693.431	-39.931	32.582	32.582	W BRG PIER C9	36693.431	-27.124	32.715	32.715

ROUTE NO.	SECTION	COUNTY
F.A.I. RT. 64	1975-117-R	COOK
FOR ROAD DIST. NO. 7	ILLINOIS	PROJECT 1-1975-117-R

NOTE: All elevations in the tables are given at the top of the concrete deck as shown in DETAIL A, On Sht. 9-5/



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only)

NOTE: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
ELEVATIONS
I-90 W.B. BENT C4 TO BENT C9
F.A.I. RT. 64 COOK COUNTY SECTION 1975-117-R
CHRISTIAN BONE AND ASSOC.
CHICAGO, ILLINOIS

FILE NAME: D:\161749-PWINT-accomonline.local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing409



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1897
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

GIRDER	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.
GIRDER 6	BRG PIER C4	36299+412	-20.718	32.113	32.113	BRG PIER C4	36299+412	-14.312	32.246	32.246	BRG PIER C4	36299+412	-7.906	32.374	32.374	BRG PIER C4	36299+412	-1.499	32.478	32.478
	A	36309+412	-20.718	32.232	32.232	A	36309+412	-14.312	32.365	32.365	A	36309+412	-7.906	32.491	32.491	A	36309+412	-1.499	32.585	32.585
	B	36319+412	-20.718	32.345	32.345	B	36319+412	-14.312	32.479	32.479	B	36319+412	-7.906	32.603	32.603	B	36319+412	-1.499	32.687	32.687
	C	36329+412	-20.718	32.454	32.454	C	36329+412	-14.312	32.588	32.588	C	36329+412	-7.906	32.710	32.710	C	36329+412	-1.499	32.784	32.784
	D	36339+412	-20.718	32.559	32.559	D	36339+412	-14.312	32.692	32.692	D	36339+412	-7.906	32.813	32.813	D	36339+412	-1.499	32.876	32.876
	E	36349+412	-20.718	32.658	32.658	E	36349+412	-14.312	32.791	32.791	E	36349+412	-7.906	32.910	32.910	E	36349+412	-1.499	32.963	32.963
	F	36359+412	-20.718	32.738	32.738	F	36359+412	-14.312	32.871	32.871	F	36359+412	-7.906	32.990	32.990	F	36359+412	-1.499	33.042	33.042
	PIER C5						PIER C5						PIER C5							
	G	36376+578	-20.718	32.791	32.791	G	36376+578	-14.312	32.924	32.924	G	36376+578	-7.906	33.043	33.043	G	36376+578	-1.499	33.096	33.096
	H	36386+578	-20.718	32.862	32.862	H	36386+578	-14.312	32.995	32.995	H	36386+578	-7.906	33.114	33.114	H	36386+578	-1.499	33.166	33.166
	J	36396+578	-20.718	32.927	32.927	J	36396+578	-14.312	33.061	33.061	J	36396+578	-7.906	33.179	33.179	J	36396+578	-1.499	33.232	33.232
	K	36406+578	-20.718	33.044	33.044	K	36406+578	-14.312	33.121	33.121	K	36406+578	-7.906	33.240	33.240	K	36406+578	-1.499	33.293	33.293
	L	36416+578	-20.718	33.095	33.095	L	36416+578	-14.312	33.177	33.177	L	36416+578	-7.906	33.296	33.296	L	36416+578	-1.499	33.348	33.348
	M	36426+578	-20.718	33.161	33.161	M	36426+578	-14.312	33.228	33.228	M	36426+578	-7.906	33.353	33.353	M	36426+578	-1.499	33.400	33.400
	N	36436+578	-20.718	33.183	33.183	N	36436+578	-14.312	33.275	33.275	N	36436+578	-7.906	33.393	33.393	N	36436+578	-1.499	33.446	33.446
	O	36446+578	-20.718	33.219	33.219	O	36446+578	-14.312	33.316	33.316	O	36446+578	-7.906	33.471	33.471	O	36446+578	-1.499	33.524	33.524
	PIER C6						PIER C6						PIER C6							
	P	36461+578	-20.718	33.265	33.265	P	36461+578	-14.312	33.359	33.359	P	36461+578	-7.906	33.488	33.488	P	36461+578	-1.499	33.540	33.540
	Q	36471+578	-20.718	33.289	33.289	Q	36471+578	-14.312	33.398	33.398	Q	36471+578	-7.906	33.517	33.517	Q	36471+578	-1.499	33.569	33.569
	R	36481+578	-20.718	33.309	33.309	R	36481+578	-14.312	33.423	33.423	R	36481+578	-7.906	33.542	33.542	R	36481+578	-1.499	33.594	33.594
S	36491+578	-20.718	33.324	33.324	S	36491+578	-14.312	33.442	33.442	S	36491+578	-7.906	33.561	33.561	S	36491+578	-1.499	33.613	33.613	
T	36501+578	-20.718	33.334	33.334	T	36501+578	-14.312	33.457	33.457	T	36501+578	-7.906	33.576	33.576	T	36501+578	-1.499	33.622	33.622	
U	36511+578	-20.718	33.339	33.339	U	36511+578	-14.312	33.467	33.467	U	36511+578	-7.906	33.591	33.591	U	36511+578	-1.499	33.633	33.633	
V	36521+578	-20.718	33.339	33.339	V	36521+578	-14.312	33.472	33.472	V	36521+578	-7.906	33.586	33.586	V	36521+578	-1.499	33.652	33.652	
W	36531+578	-20.718	33.334	33.334	W	36531+578	-14.312	33.472	33.472	W	36531+578	-7.906	33.591	33.591	W	36531+578	-1.499	33.639	33.639	
PIER C7						PIER C7						PIER C7								
X	36551+264	-20.718	33.325	33.325	X	36551+264	-14.312	33.458	33.458	X	36551+264	-7.906	33.577	33.577	X	36551+264	-1.499	33.630	33.630	
Y	36561+264	-20.718	33.311	33.311	Y	36561+264	-14.312	33.444	33.444	Y	36561+264	-7.906	33.563	33.563	Y	36561+264	-1.499	33.615	33.615	
Z	36571+264	-20.718	33.292	33.292	Z	36571+264	-14.312	33.425	33.425	Z	36571+264	-7.906	33.544	33.544	Z	36571+264	-1.499	33.596	33.596	
AA	36581+264	-20.718	33.239	33.239	AA	36581+264	-14.312	33.372	33.372	AA	36581+264	-7.906	33.520	33.520	AA	36581+264	-1.499	33.572	33.572	
AB	36591+264	-20.718	33.206	33.206	AB	36591+264	-14.312	33.339	33.339	AB	36591+264	-7.906	33.491	33.491	AB	36591+264	-1.499	33.510	33.510	
AC	36601+264	-20.718	33.171	33.171	AC	36601+264	-14.312	33.304	33.304	AC	36601+264	-7.906	33.458	33.458	AC	36601+264	-1.499	33.475	33.475	
AD	36611+264	-20.718	33.136	33.136	AD	36611+264	-14.312	33.269	33.269	AD	36611+264	-7.906	33.428	33.428	AD	36611+264	-1.499	33.440	33.440	
AE	36621+264	-20.718	33.101	33.101	AE	36621+264	-14.312	33.234	33.234	AE	36621+264	-7.906	33.393	33.393	AE	36621+264	-1.499	33.405	33.405	
PIER C8						PIER C8						PIER C8								
AF	36636+264	-20.718	33.048	33.048	AF	36636+264	-14.312	33.181	33.181	AF	36636+264	-7.906	33.330	33.330	AF	36636+264	-1.499	33.383	33.383	
AG	36646+264	-20.718	33.013	33.013	AG	36646+264	-14.312	33.146	33.146	AG	36646+264	-7.906	33.265	33.265	AG	36646+264	-1.499	33.318	33.318	
AH	36656+264	-20.718	32.978	32.978	AH	36656+264	-14.312	33.111	33.111	AH	36656+264	-7.906	33.200	33.200	AH	36656+264	-1.499	33.250	33.250	
AJ	36666+264	-20.718	32.943	32.943	AJ	36666+264	-14.312	33.076	33.076	AJ	36666+264	-7.906	33.189	33.189	AJ	36666+264	-1.499	33.248	33.248	
AK	36676+264	-20.718	32.908	32.908	AK	36676+264	-14.312	33.041	33.041	AK	36676+264	-7.906	33.160	33.160	AK	36676+264	-1.499	33.213	33.213	
AL	36686+264	-20.718	32.873	32.873	AL	36686+264	-14.312	33.006	33.006	AL	36686+264	-7.906	33.129	33.129	AL	36686+264	-1.499	33.178	33.178	
BRG PIER C9	36693+431	-20.718	32.848	32.848	BRG PIER C9	36693+431	-14.312	32.981	32.981	BRG PIER C9	36693+431	-7.906	33.100	33.100	BRG PIER C9	36693+431	-1.499	33.152	33.152	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 94	1975-117-R	COOK	290	119
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-IX-94-3()		

NOTE: All elevations in the tables are given at the top of the concrete deck as shown in DETAIL A. On Sht. 9-9/

GIRDER	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.
GIRDER 10	BRG PIER C4	36299+412	0.000	32.498	32.498	BRG PIER C4	36299+412	1.500	32.918	32.918	BRG PIER C4	36299+412	7.500	32.997	32.997	BRG PIER C4	36299+412	13.500	32.676	32.676
	A	36309+412	0.000	32.602	32.602	A	36309+412	1.500	32.617	32.617	A	36309+412	7.500	32.681	32.681	A	36309+412	13.500	32.744	32.744
	B	36319+412	0.000	32.700	32.700	B	36319+412	1.500	32.712	32.712	B	36319+412	7.500	32.776	32.776	B	36319+412	13.500	32.807	32.807
	C	36329+412	0.000	32.793	32.793	C	36329+412	1.500	32.801	32.801	C	36329+412	7.500	32.863	32.863	C	36329+412	13.500	32.865	32.865
	D	36339+412	0.000	32.882	32.882	D	36339+412	1.500	32.872	32.872	D	36339+412	7.500	32.928	32.928	D	36339+412	13.500	32.919	32.919
	E	36349+412	0.000	32.965	32.965	E	36349+412	1.500	32.953	32.953	E	36349+412	7.500	33.011	33.011	E	36349+412	13.500	32.927	32.927
	F	36359+412	0.000	33.044	33.044	F	36359+412	1.500	33.034	33.034	F	36359+412	7.500	33.089	33.089	F	36359+412	13.500	33.029	33.029
	PIER C5						PIER C5						PIER C5							
	G	36376+578	0.000	33.098	33.098	G	36376+578	1.500	33.097	33.097	G	36376+578	7.500	33.089	33.089	G	36376+578	13.500	33.072	33.072
	H	36386+578	0.000	33.168	33.168	H	36386+578													

FOR INFORMATION ONLY

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEO. GRADE ELEV. ADJ. FOR DEF.
GIRDER 13					LONGITUDINAL BONDED CONSTRUCTION JOINT					GIRDER 14					EISENHOWER EXPRESSWAY & LONGITUDINAL EXPANSION JOINT				
E BRG PIER C4	36299+412	19.500	32.755	32.755	E BRG PIER C4	36299+412	22.500	32.795	32.795	E BRG PIER C4	36299+412	25.500	32.834	32.834	E BRG PIER C4	36299+412	27.000	32.854	32.854
A	36309+412	19.500	32.808	32.826	A	36309+412	22.500	32.839	32.858	A	36309+412	25.500	32.871	32.890	A	36309+412	27.000	32.887	32.906
B	36319+412	19.500	32.859	32.886	B	36319+412	22.500	32.879	32.910	B	36319+412	25.500	32.903	32.934	B	36319+412	27.000	32.915	32.946
C	36329+412	19.500	32.898	32.929	C	36329+412	22.500	32.914	32.945	C	36329+412	25.500	32.930	32.961	C	36329+412	27.000	32.938	32.969
D	36339+412	19.500	32.935	32.961	D	36339+412	22.500	32.944	32.969	D	36339+412	25.500	32.962	32.977	D	36339+412	27.000	32.966	32.981
E	36349+412	19.500	32.968	32.984	E	36349+412	22.500	32.969	32.985	E	36349+412	25.500	32.969	32.985	E	36349+412	27.000	32.969	32.985
F	36359+412	19.500	33.018	33.024	F	36359+412	22.500	33.012	33.018	F	36359+412	25.500	33.006	33.013	F	36359+412	27.000	33.003	33.010
PIER C5	36366+578	19.500	33.051	33.051	PIER C5	36366+578	22.500	33.041	33.041	PIER C5	36366+578	25.500	33.030	33.030	PIER C5	36366+578	27.000	33.025	33.025
G	36376+578	19.500	33.093	33.103	G	36376+578	22.500	33.077	33.087	G	36376+578	25.500	33.060	33.070	G	36376+578	27.000	33.052	33.062
H	36386+578	19.500	33.131	33.151	H	36386+578	22.500	33.108	33.128	H	36386+578	25.500	33.095	33.105	H	36386+578	27.000	33.074	33.084
J	36396+578	19.500	33.164	33.191	J	36396+578	22.500	33.139	33.162	J	36396+578	25.500	33.121	33.155	J	36396+578	27.000	33.091	33.118
K	36406+578	19.500	33.191	33.226	K	36406+578	22.500	33.156	33.191	K	36406+578	25.500	33.133	33.160	K	36406+578	27.000	33.103	33.138
L	36416+578	19.500	33.214	33.244	L	36416+578	22.500	33.173	33.202	L	36416+578	25.500	33.131	33.160	L	36416+578	27.000	33.111	33.140
M	36426+578	19.500	33.233	33.252	M	36426+578	22.500	33.185	33.204	M	36426+578	25.500	33.137	33.156	M	36426+578	27.000	33.111	33.122
N	36436+578	19.500	33.246	33.257	N	36436+578	22.500	33.192	33.203	N	36436+578	25.500	33.138	33.149	N	36436+578	27.000	33.111	33.122
O	36446+578	19.500	33.254	33.258	O	36446+578	22.500	33.194	33.198	O	36446+578	25.500	33.134	33.137	O	36446+578	27.000	33.104	33.107
PIER C6	36451+578	19.500	33.261	33.261	PIER C6	36451+578	22.500	33.199	33.199	PIER C6	36451+578	25.500	33.136	33.136	PIER C6	36451+578	27.000	33.105	33.105
P	36461+578	19.500	33.290	33.304	P	36461+578	22.500	33.228	33.242	P	36461+578	25.500	33.166	33.180	P	36461+578	27.000	33.134	33.148
Q	36471+578	19.500	33.315	33.343	Q	36471+578	22.500	33.252	33.280	Q	36471+578	25.500	33.190	33.218	Q	36471+578	27.000	33.159	33.187
R	36481+578	19.500	33.334	33.373	R	36481+578	22.500	33.272	33.310	R	36481+578	25.500	33.210	33.248	R	36481+578	27.000	33.178	33.217
S	36491+578	19.500	33.349	33.397	S	36491+578	22.500	33.287	33.334	S	36491+578	25.500	33.224	33.272	S	36491+578	27.000	33.193	33.241
T	36501+578	19.500	33.359	33.406	T	36501+578	22.500	33.297	33.344	T	36501+578	25.500	33.234	33.282	T	36501+578	27.000	33.203	33.250
U	36511+578	19.500	33.364	33.402	U	36511+578	22.500	33.302	33.340	U	36511+578	25.500	33.239	33.277	U	36511+578	27.000	33.208	33.246
V	36521+578	19.500	33.364	33.392	V	36521+578	22.500	33.302	33.329	V	36521+578	25.500	33.239	33.267	V	36521+578	27.000	33.208	33.236
W	36531+578	19.500	33.360	33.373	W	36531+578	22.500	33.297	33.311	W	36531+578	25.500	33.235	33.248	W	36531+578	27.000	33.204	33.217
PIER C7	36541+264	19.500	33.350	33.350	PIER C7	36541+264	22.500	33.288	33.288	PIER C7	36541+264	25.500	33.226	33.226	PIER C7	36541+264	27.000	33.194	33.194
X	36551+264	19.500	33.336	33.344	X	36551+264	22.500	33.274	33.281	X	36551+264	25.500	33.211	33.219	X	36551+264	27.000	33.180	33.188
Y	36561+264	19.500	33.317	33.332	Y	36561+264	22.500	33.255	33.270	Y	36561+264	25.500	33.192	33.207	Y	36561+264	27.000	33.161	33.176
Z	36571+264	19.500	33.293	33.318	Z	36571+264	22.500	33.235	33.255	Z	36571+264	25.500	33.168	33.193	Z	36571+264	27.000	33.137	33.162
AA	36581+264	19.500	33.265	33.299	AA	36581+264	22.500	33.202	33.236	AA	36581+264	25.500	33.140	33.174	AA	36581+264	27.000	33.109	33.143
AB	36591+264	19.500	33.231	33.262	AB	36591+264	22.500	33.169	33.200	AB	36591+264	25.500	33.104	33.137	AB	36591+264	27.000	33.075	33.106
AC	36601+264	19.500	33.196	33.220	AC	36601+264	22.500	33.134	33.157	AC	36601+264	25.500	33.071	33.095	AC	36601+264	27.000	33.040	33.064
AD	36611+264	19.500	33.161	33.176	AD	36611+264	22.500	33.099	33.113	AD	36611+264	25.500	33.036	33.051	AD	36611+264	27.000	33.005	33.020
AE	36621+264	19.500	33.126	33.131	AE	36621+264	22.500	33.064	33.069	AE	36621+264	25.500	33.001	33.006	AE	36621+264	27.000	32.970	32.975
PIER C8	36626+264	19.500	33.109	33.109	PIER C8	36626+264	22.500	33.046	33.046	PIER C8	36626+264	25.500	32.984	32.984	PIER C8	36626+264	27.000	32.953	32.953
AF	36636+264	19.500	33.074	33.083	AF	36636+264	22.500	33.011	33.020	AF	36636+264	25.500	32.949	32.958	AF	36636+264	27.000	32.918	32.927
AG	36646+264	19.500	33.039	33.057	AG	36646+264	22.500	32.976	32.995	AG	36646+264	25.500	32.914	32.932	AG	36646+264	27.000	32.883	32.901
AH	36656+264	19.500	33.003	33.031	AH	36656+264	22.500	32.941	32.969	AH	36656+264	25.500	32.879	32.907	AH	36656+264	27.000	32.847	32.875
AJ	36666+264	19.500	32.968	33.000	AJ	36666+264	22.500	32.906	32.937	AJ	36666+264	25.500	32.844	32.875	AJ	36666+264	27.000	32.812	32.844
AK	36676+264	19.500	32.933	32.965	AK	36676+264	22.500	32.871	32.902	AK	36676+264	25.500	32.809	32.840	AK	36676+264	27.000	32.777	32.809
AL	36686+264	19.500	32.898	32.912	AL	36686+264	22.500	32.836	32.849	AL	36686+264	25.500	32.774	32.787	AL	36686+264	27.000	32.742	32.756
W BRG PIER C9	36693+431	19.500	32.873	32.873	W BRG PIER C9	36693+431	22.500	32.811	32.811	W BRG PIER C9	36693+431	25.500	32.749	32.749	W BRG PIER C9	36693+431	27.000	32.717	32.717

NOTE: All elevations in the tables are given at the top of the concrete deck as shown in DETAIL 2, On Sht. 8-3/

ROUTE NO.	SECTION	COUNTY	SHEET NO.
F.A.I. RT. 94	1975-17-R	COOK	29
FED. ROAD DIV. NO. 7	ILLINOIS	PROJECT I-19-94-R	

DESIGNED BY: _____
 DRAWN BY: _____
 CHECKED BY: _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 CIRCLE INTERCHANGE AND
 EISENHOWER EXPRESSWAY
 REHABILITATION
 ELEVATIONS
I-90 W.B. BENT C4 TO BENT C9
 F.A.I. RT. 94 COOK COUNTY SECTION 1975-17-R
 CONTRACT NO. 60X93

FILE NAME: D:\V161749-PWINT-aecomonline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Structure_016-1718\Existing_Plans\33906-60X93-SXX-Existing411



USER NAME =	ahmad,issa	DESIGNED -	REVISOR -
PLOT SCALE =	N.T.S	CHECKED -	REVISION -
PLOT DATE =	7/26/2018	DRAWN -	REVISION -
		CHECKED -	REVISION -
		MI, MAI	

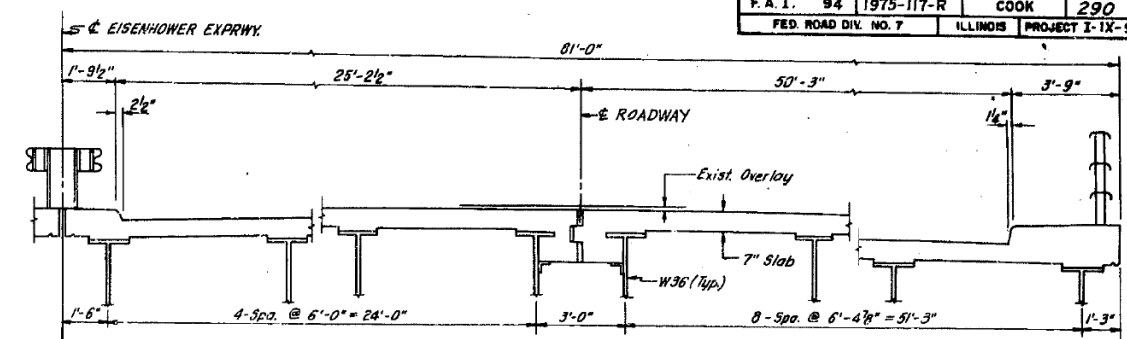
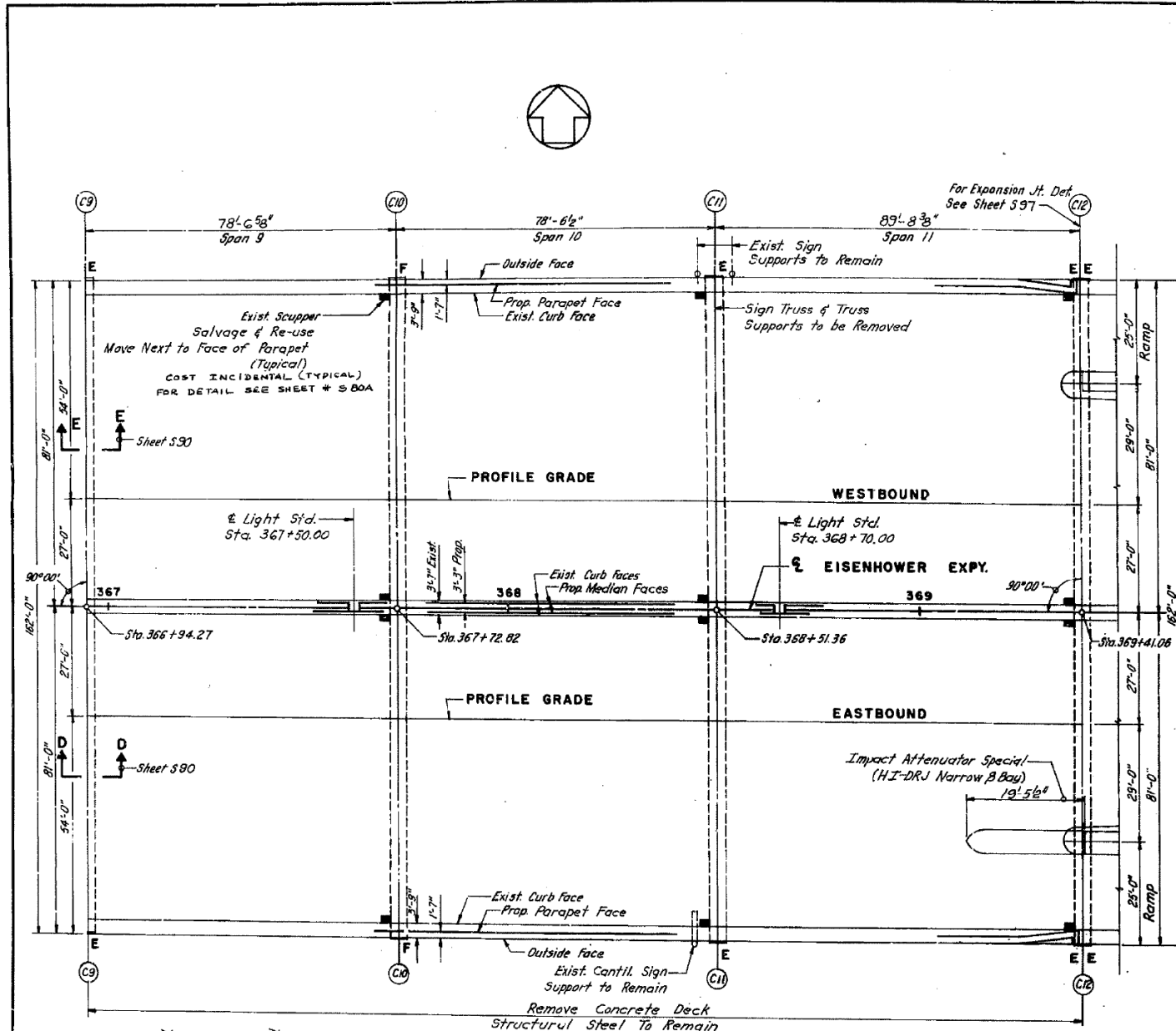
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1899
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 94	1975-117-R	COOK	290	121
FED. ROAD DIV. NO. 7	ILLINOIS		PROJECT I-1X-94-3	



TYPICAL EXISTING DECK CROSS SECTION
E. B. RDWY. LOOKING EAST & W. B. RDWY. LOOKING WEST

DESIGN SPECIFICATIONS
1977 A.A.S.H.T.O and Interim Specifications As Applicable

DESIGN CRITERIA

DESIGN STRESSES
 $f'_c = 3500 \text{ psi Deck Slab, Curb, Parapet}$
 $f_s = 60,000 \text{ psi Reinforcement}$

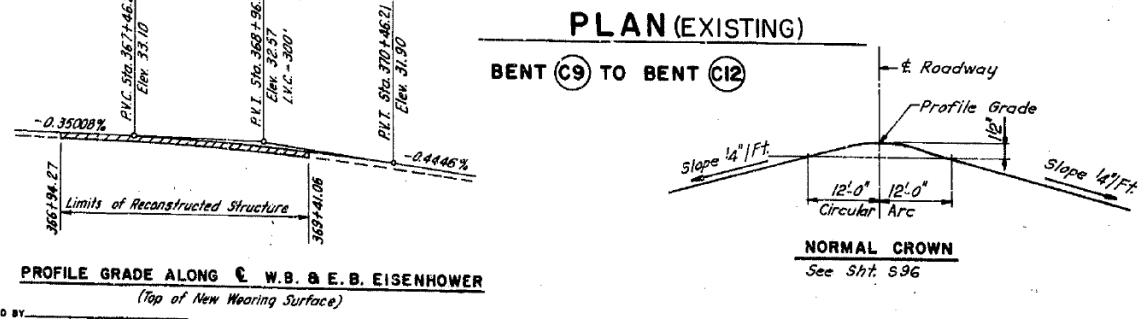
DESIGN METHOD
Load Factor Design

LOADING
HS 20-44 (New Construction)
25' ft. Future Wearing Surface
Non-Composite Construction

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPERST	SUBSTR.	TOTAL
Protective Coat	Sq. Yd.	428		428
Waterproofing Membrane	Sq. Yd.	4,256		4,256
Bit. Concrete Surface Course	Ton	356		356
Removal of Existing Superstructure No. 6	Exc.	1		1
Neoprene Expansion Joint 6"	Lin. Ft.	180		180
Repair Concrete Structures	Sq. Ft.		891	891
Class X Concrete	Cu. Yd.	1,116		1,116
Reinforcement Bars	Lb.	103,190		103,190
Reinforcement Bars (Epoxy Coated)	Lb.	174,000		174,000
Steel Pipe	Lin. Ft.	120		120
Preformed Joint Sealer 2 1/2"	Lin. Ft.	257		257
Epoxy Mortar Repair	Cu. Ft.		24	24

For General Notes See Sht. 5-80.



WORK TO BE PERFORMED

- 1 - REMOVE EXISTING DECK SLAB
- 2 - RECONSTRUCT DECK SLAB USING EPOXY COATED TOP REINFORCEMENT
- 3 - REPAIR SUBSTRUCTURES AS REQUIRED
- 4 - WATERPROOF AND RESURFACE WITH 1/2" BITUMINOUS SURFACE COURSE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CIRCLE INTERCHANGE AND
EISENHOWER EXPRESSWAY
REHABILITATION
GENERAL PLAN
BENT C9 TO BENT C12
F. A. I. RT. 94 COOK COUNTY SECTION 1975-117-R
CHRISTIAN-ROGE AND ASSOC.
ENGINEERS
CHICAGO, ILLINOIS

SHEET
330of
330of

REV. 3/11/80 C.R. RCS

FILE NAME: D:\V161749-PWINT-accomline.local\AECOM_DS02_NAYDocuments\01_Americas\Transportation\60269938_Circle\Phase_1\000_CAD\008_Structural\Plans\33906-60X93-SXX-Existing.dwg 2:44:32 PM



USER NAME =	ahmad,issa	DESIGNED -		REVISED -	
PLOT SCALE =	N.T.S	CHECKED -		REVISED -	
PLOT DATE =	7/26/2018	DRAWN -		REVISED -	
		CHECKED -	MI, MAI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

F. A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1900
CONTRACT NO. 60X93				
ILLINOIS FED. AID PROJECT				