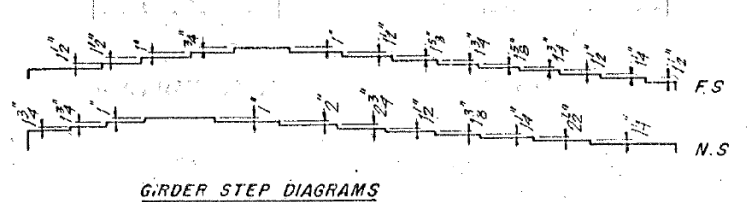
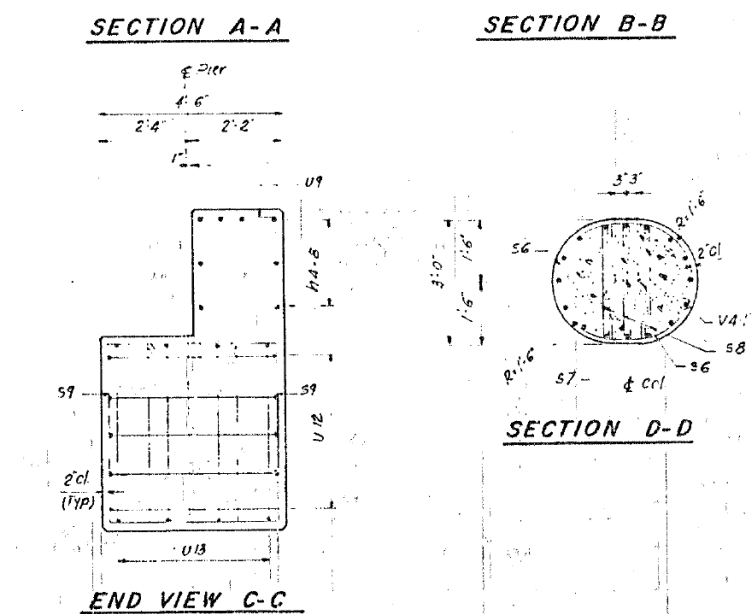
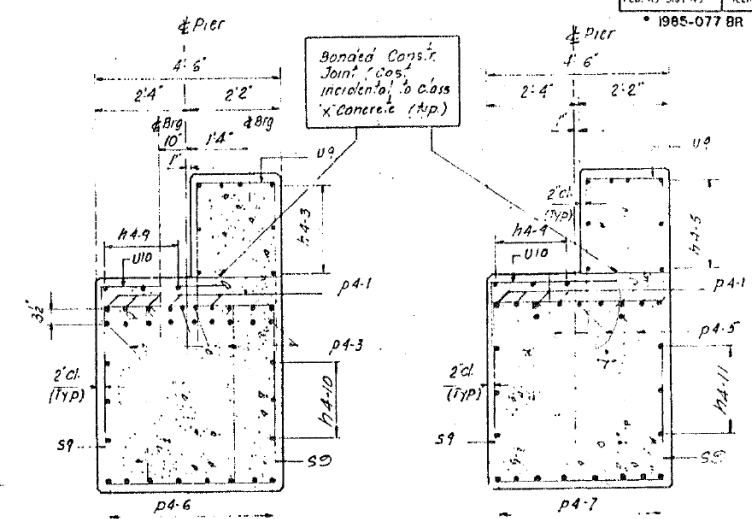
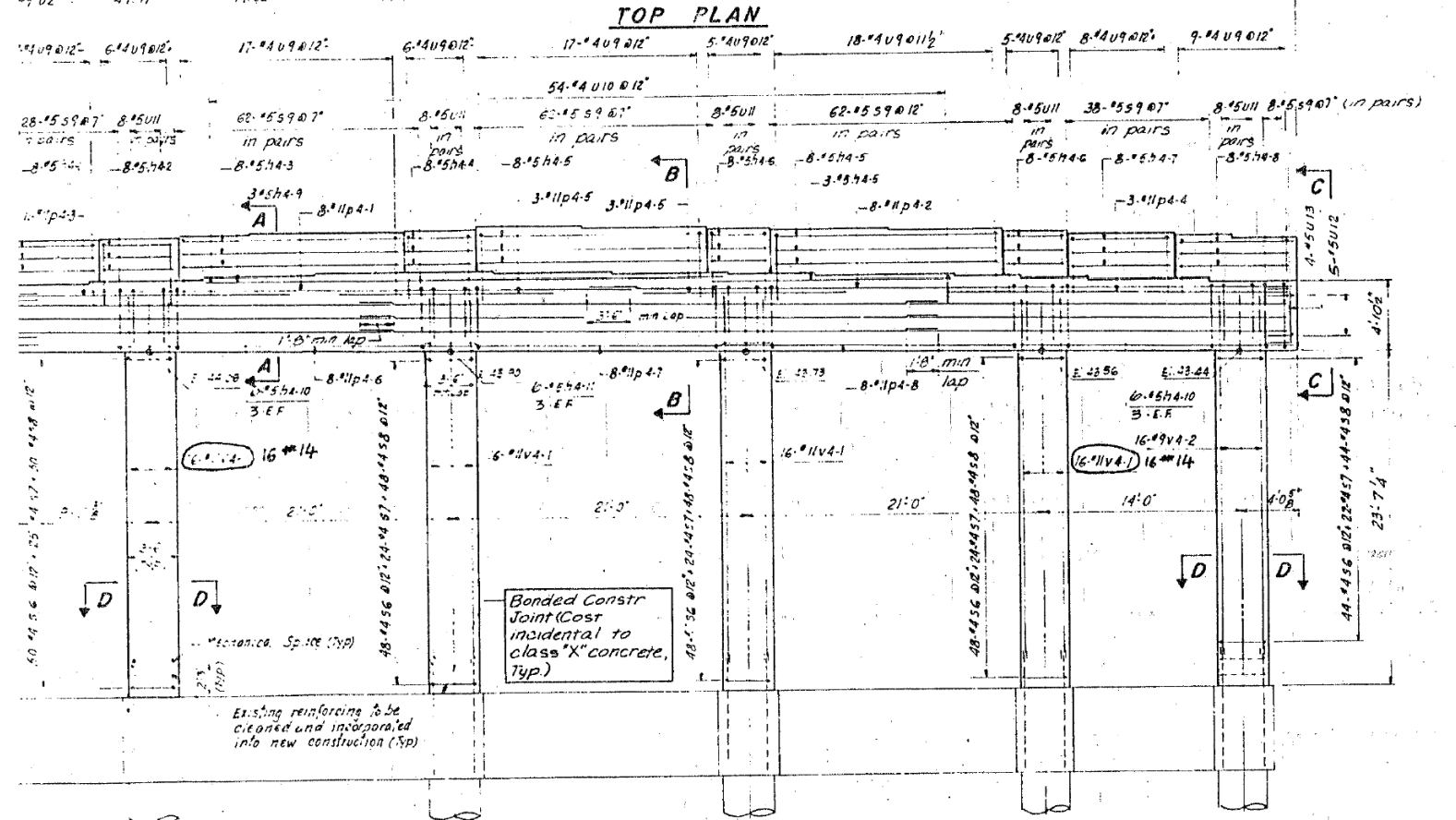
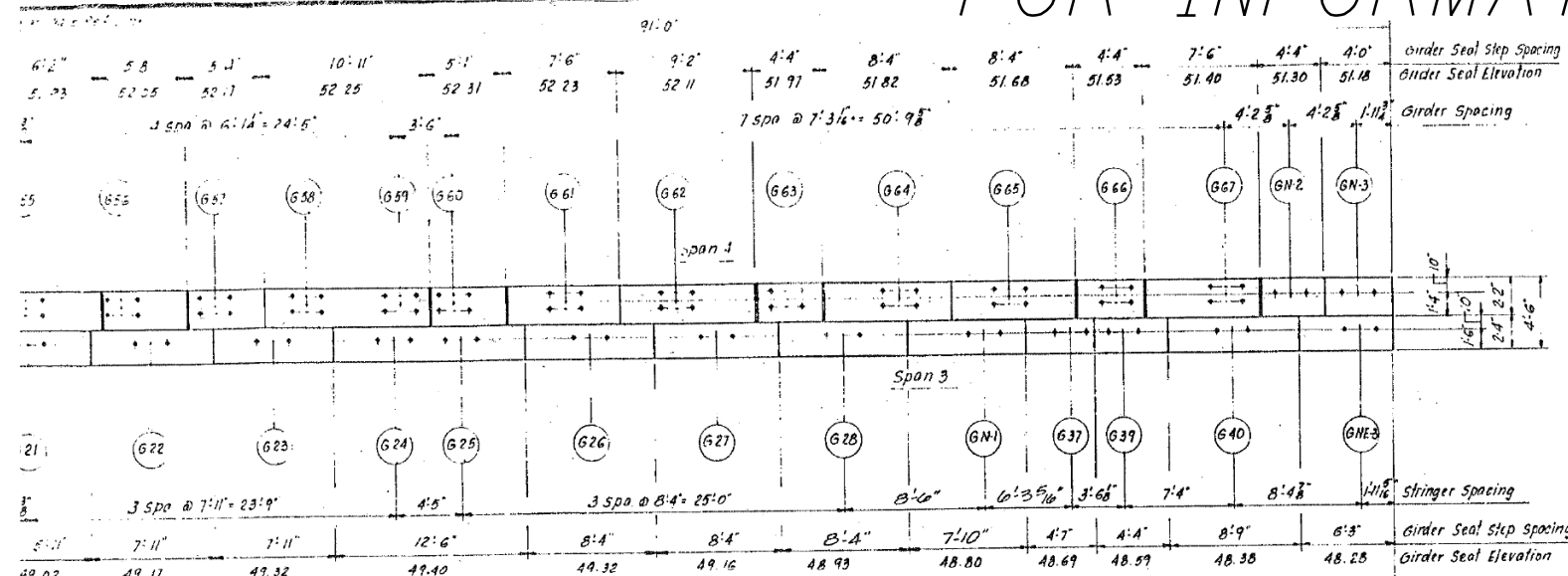


FOR INFORMATION ONLY

90/94	COOK	33	S
STA.	10 STA.		
FED. RD DIST NO.	ILLINOIS FED AID PROJECT		
1985-077 BR			



BILL OF MATERIAL

ITEM	UNIT	PIER NO. 4
Reinforcement Bars (Epoxy Coated)	SS	35030 31809
Class "X" Concrete	Cu	137.8
Mechanical Spacers	Each	80

SHEET B0 OF B33

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 BR-COOK COUNTY
N. B. MAHLE RECONSTRUCTION
STRUCTURE 016-80
PIER 4

Scale: NONE
Date: AUG. 1988
Drawn By: JG
Checked By: MEM

ENVTRODYNE ENGINEERS INC
CHICAGO, ILLINOIS

REVISIONS	
Name	Date



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1501
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

FILE NAME: D:\VAECOM-NA-AWS1\arcocom\line-local\AECOM_DS02_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Sign_Structure\62A76-Span-55229-Extrplans.dgn

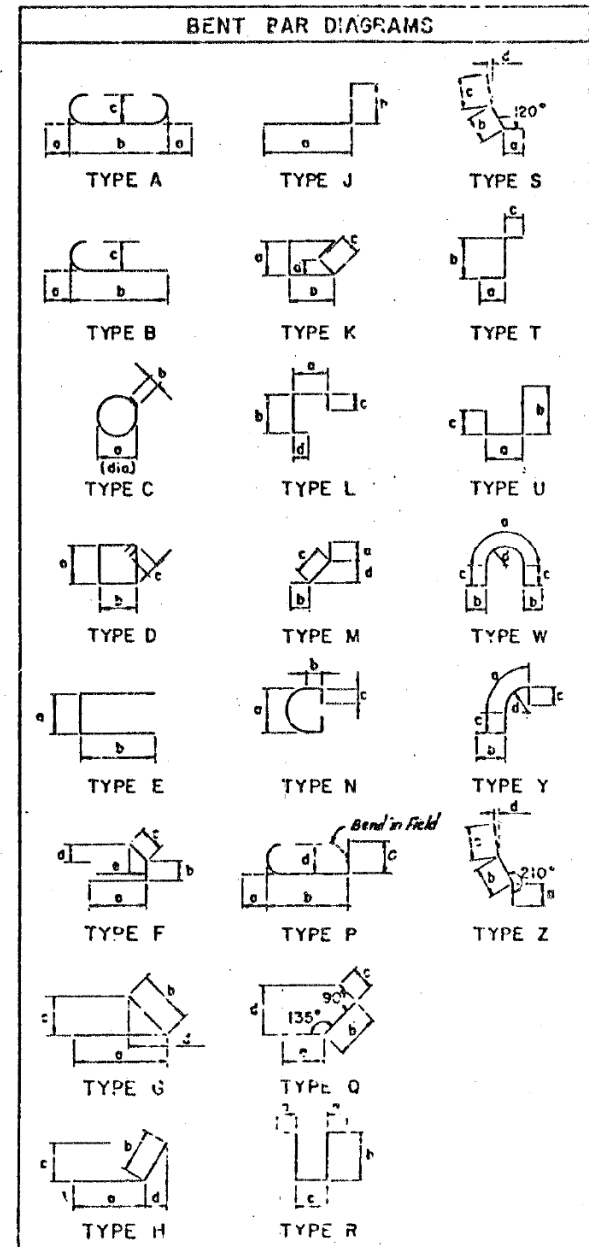
FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	8	COOK	23	7
STA.		TO STA.		
FED. AID PROJ. NO.		FED. AID PROJECT		

STRUCTURE	MARK	NUMBER	SIZE	LENGTH	TYPE
PIER No. 1	h1-1(E)	5	#5	5'-0"	
PIER No. 1	h1-2(E)	5	#5	10'-0"	
PIER No. 1	h1-3(E)	10	#5	4'-12"	
PIER No. 1	h1-4(E)	5	#5	11'-2"	
PIER No. 1	h1-5(E)	5	#5	3'-8"	
PIER No. 1	h1-6(E)	10	#5	8'-0"	
PIER No. 1	h1-7(E)	5	#5	6'-11"	
PIER No. 1	h1-8(E)	5	#5	8'-7"	
PIER No. 1	h1-10(E)	10	#5	6'-4"	
PIER No. 1	h1-11(E)	5	#5	4'-9"	
PIER No. 1	h1-12(E)	5	#5	15'-6"	
PIER No. 1	h1-13(E)	5	#5	28'-3"	
PIER No. 1	h1-14(E)	5	#5	9'-0"	
PIER No. 1	h1-15(E)	5	#5	14'-8"	
PIER No. 1	h1-16(E)	25	#5	33'-10"	
PIER No. 1	h1-17(E)	6	#5	29'-8"	
PIER No. 1	p1-1(E)	6	#11	29'-6"	
PIER No. 1	p1-2(E)	6	#11	40'-0"	
PIER No. 1	p1-3(E)	18	#11	34'-9"	
PIER No. 1	p1-4(E)	8	#11	29'-8"	
PIER No. 1	p1-5(E)	6	#10	29'-8"	
PIER No. 1	s1(E)	124	#5	16'-7"	
PIER No. 1	s2(E)	52	#5	12'-7"	
PIER No. 1	s3(E)	236	#4	7'-4"	
PIER No. 1	s4(E)	128	#4	4'-2"	
PIER No. 1	s5(E)	256	#4	4'-1"	
PIER No. 1	s6(E)	158	#4	6'-6"	
PIER No. 1	s7(E)	79	#4	3'-8"	
PIER No. 1	s8(E)	158	#4	3'-7"	
PIER No. 1	u1(E)	104	#4	6'-11"	
PIER No. 1	u2(E)	67	#4	6'-8"	
PIER No. 1	u3(E)	18	#5	9'-6"	
PIER No. 1	u4(E)	32	#5	13'-6"	
PIER No. 1	u5(E)	23	#5	7'-7"	
PIER No. 1	u6(E)	4	#5	9'-7"	
PIER No. 1	u7(E)	7	#5	9'-7"	
PIER No. 1	u8(E)	14	#11	15'-6"	
PIER No. 1	v1-1(E)	56	#11	25'-3"	
PIER No. 1	v1-2(E)	24	#11	28'-6"	
PIER No. 1	v1-3(E)	16	#9	28'-0"	
PIER No. 2	h2-1(E)	8	#5	8'-4"	
PIER No. 2	u14(E)	9	#4	6'-2"	
PIER No. 2	u15(E)	6	#5	6'-7"	
PIER No. 4	M-1(E)	8	#5	5'-8"	
PIER No. 4	M-2(E)	8	#5	5'-4"	
PIER No. 4	M-3(E)	8	#5	15'-11"	
PIER No. 4	M-4(E)	8	#5	4'-9"	
PIER No. 4	M-5(E)	19	#5	16'-4"	
PIER No. 4	M-6(E)	16	#5	4'-3"	
PIER No. 4	M-7(E)	8	#5	7'-2"	
PIER No. 4	M-8(E)	8	#5	8'-0"	
PIER No. 4	M-9(E)	3	#5	26'-5"	
PIER No. 4	M-10(E)	12	#5	27'-0"	
PIER No. 4	M-11(E)	6	#5	42'-6"	
PIER No. 4	M-12(E)	9	#11	44'-3"	
PIER No. 4	M-13(E)	9	#11	50'-1"	
PIER No. 4	M-14(E)	11	#11	23'-5"	
PIER No. 4	M-15(E)	11	#11	28'-0"	
PIER No. 4	M-16(E)	6	#11	14'-5"	
PIER No. 4	M-17(E)	8	#11	30'-6"	
PIER No. 4	M-18(E)	8	#11	24'-6"	
PIER No. 4	M-19(E)	8	#11	48'-5"	
PIER No. 4	s6(E)	23	#4	6'-6"	

STRUCTURE	MARK	NUMBER	SIZE	LENGTH	TYPE
PIER No. 4	s7(E)	119	#4	3'-8"	
PIER No. 4	s8(E)	238	#4	3'-7"	
PIER No. 4	s9(E)	268	#5	16'-1"	
PIER No. 4	u9(E)	98	#4	10'-10"	
PIER No. 4	u10(E)	54	#4	4'-6"	
PIER No. 4	u11(E)	40	#5	12'-2"	
PIER No. 4	u12(E)	10	#5	8'-1"	
PIER No. 4	u13(E)	8	#5	8'-4"	
PIER No. 4	v4-1(E)	64	#11	26'-2"	
PIER No. 4	v4-2(E)	16	#9	25'-9"	

TYPE	MARK	a	b	c	d
□	s1(E)	3'-8"	2'-2"	0'-5 1/2"	
□	s2(E)	3'-8"	2'-2"	0'-5 1/2"	
□	s9(E)	4'-3"	3'-2"	0'-5 1/2"	
	u1(E)	1'-5"	2'-9"		
	u11(E)	3'-2"	4'-5"		
	u12(E)	4'-1"	2'-0"		
	u13(E)	4'-4"	2'-0"		
	u14(E)	2'-6"	2'-9"		
	u15(E)	2'-7"	2'-0"		
	u2(E)	3'-8"	1'-6"		
	u3(E)	2'-2"	3'-6"		
	u4(E)	2'-2"	5'-6"		
	u5(E)	3'-7"	2'-0"		
	u6(E)	5'-7"	2'-0"		
	u7(E)	3'-7"	3'-0"		
	u9(E)	1'-10"	4'-6"		
	u10(E)	3'-0"	1'-6"		
	u8(E)	9'-6"	6'-0"		
○	s3(E)	3'-2"	0'-8"	0'-6"	
○	s6(E)	2'-8"	0'-8"	0'-6"	
	s4(E)	0'-6"	3'-2"	0'-6"	0'-3 1/2"
	s5(E)	0'-6"	3'-1"	0'-6"	0'-3 1/2"
	s7(E)	0'-6"	2'-8"	0'-6"	0'-3 1/2"
	s8(E)	0'-6"	2'-7"	0'-6"	0'-3 1/2"



Note: All dimensions are out-to-out

SHEET 87 OF 833

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-0778R COOK COUNTY
N.B. MARLINE RECONSTRUCTION
STRUCTURE 1110
PIER BAR SCHEDULE

Scale: NONE
Date: AUGUST 1988
Drawn By: CAD/AV
Checked By: M.E.M.
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

REVISIONS	
Name	Date

FILE NAME: D:\V\AECOM\NA-AWS1\arecomonline\local\AECOM_DS02_NAV\Documents\01_Americas\Transportation\60269938_Circle\Phase_II\CAD\008_Structural\Sgn_Structure\62A76-Span-SS229-Exftplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

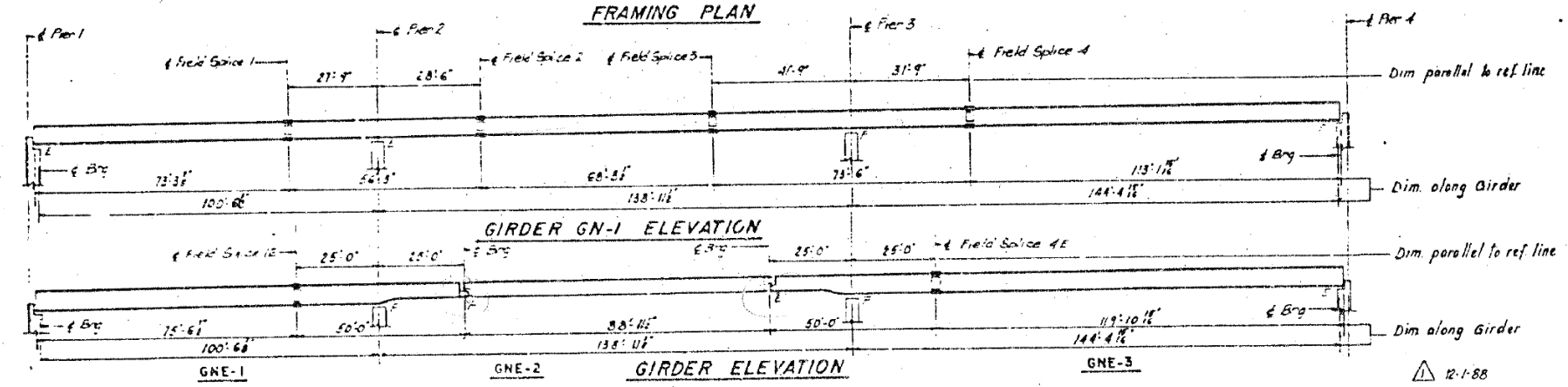
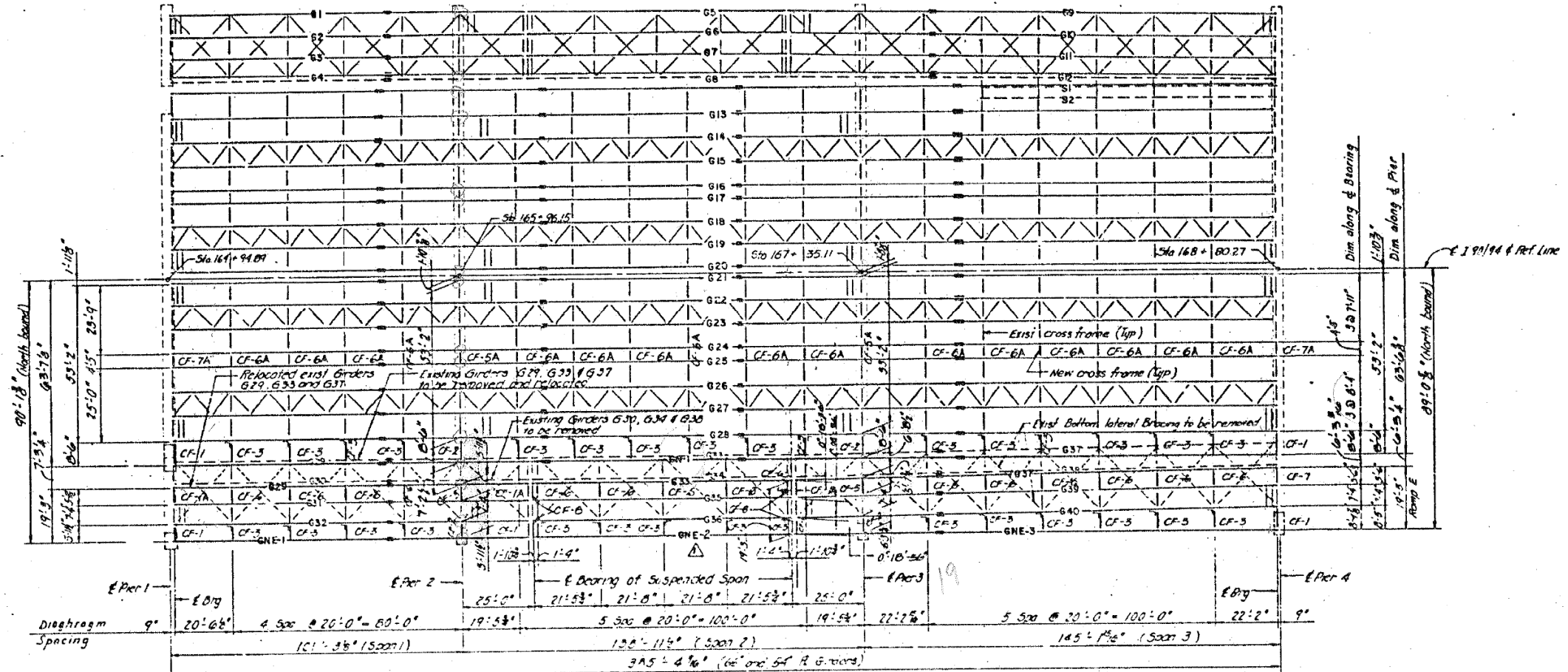
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-07 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1502
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

SECTION NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0	COOK	33	8
SECTION 1985-0778R				



9 ML Girders NB
9 ML Girders SB
4 Ramp E Girders (NB)
4 Ramp D " (SB)

SHEET 88 OF 833

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985 - 0778R - COOK COUNTY
N. B. MAINLINE RECONSTRUCTION

STRUCTURE 016 - 1110
FRAMING PLAN SPANS 1 TO 3

Scale: NONE
Date: AUG. 1988

Drawn By: MEM
Checked By: MEM

ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

REVISIONS

Name	Date

FILE NAME: D:\V\AECOM\AA\AW51\acromonline\local\AECOM_ID502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Sign_Structures\62A76-Sign_Structure\62A76-Span-55229-Extr\plans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

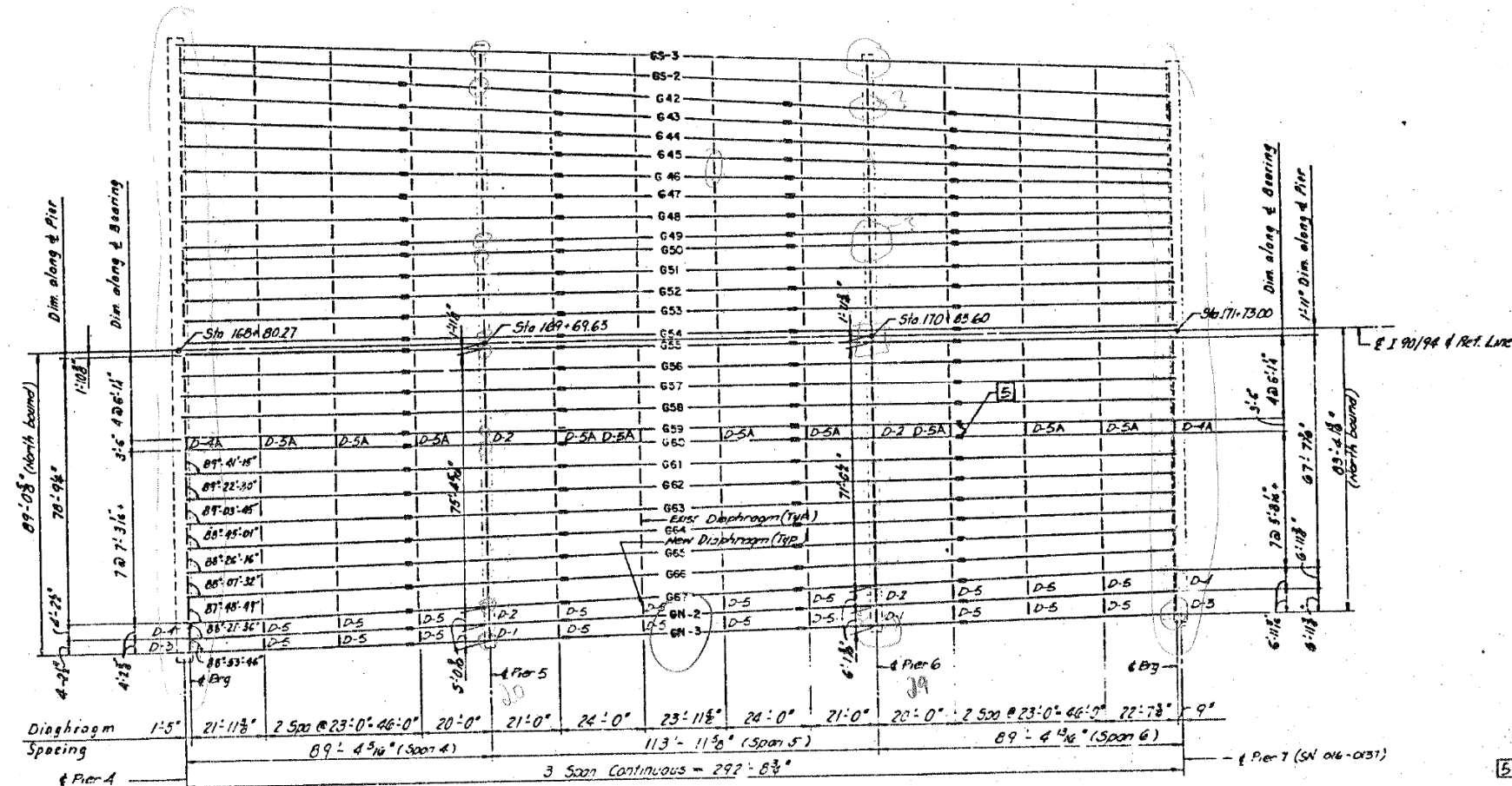
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-08 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1503
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

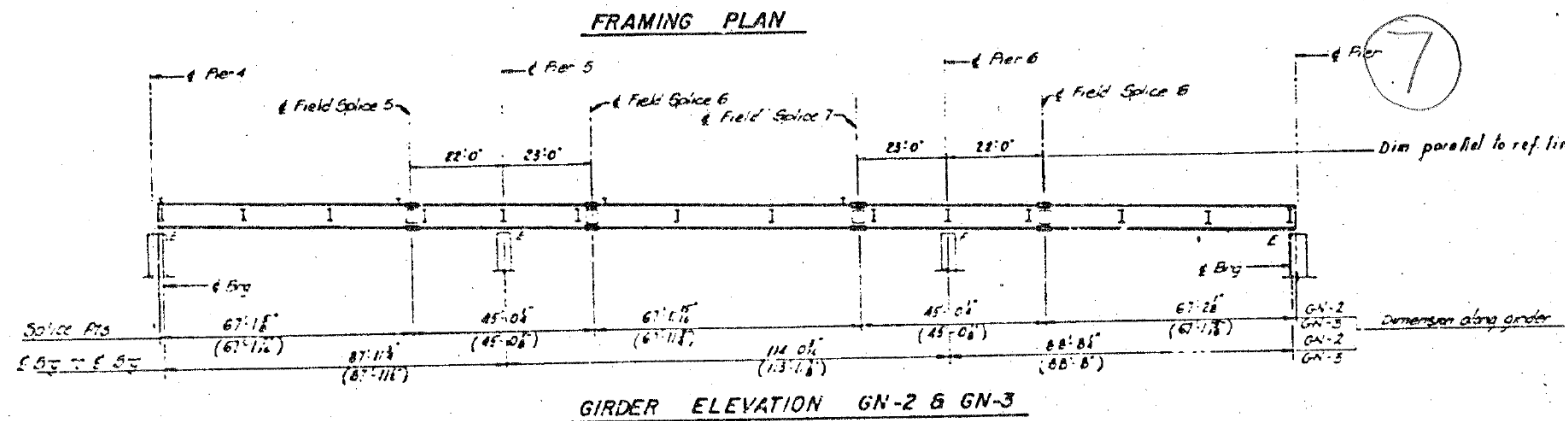
FOR INFORMATION ONLY

FEDERAL AID DISTRICT NO. 90/294	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/294	0	COOK	33	9
SECTION 1935-0778				



27,9168

LEGEND
 [5] Replace Splice Plates (Type 5), Top & Bottom See Sheet SK1 for Detail.



SHEET 09 OF 35

REVISIONS	
Name	Date

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1935 - 0778R - COOK COUNTY
 N.B. MAINLINE RECONSTRUCTION

STRUCTURE 016-1110
 FRAMING PLAN SPANS 4 TO 6

Scale: NONE
 Date: AUG. 1988

Drawn By: MMS
 Checked By: MEM

ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

FILE NAME: D:\V\AECOM\NA-AWS1\arcocomonline\local\AECOM_DS02_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Sign_Structures\62A76-Span-55229-Extr\plans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110

SHEET NO.AS13-09 OF AS13-82SHEETS

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS 2155	SHEET NO. 1504
CONTRACT NO. 62A76				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

MOMENT, REACTION & STRESS TABLE

FEDERAL AID DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	53	10
FED. AID PROJECT				
* 985-077 BR				

Location	SPANS 1 thru 3: GIRDER GN-1						SPANS 1 thru 3: GIRDERS GNE-1,2+3						SPANS 4 thru 6: GIRDERS GN-2+3						Location
	§ Brg 1	0.1	§ Brg 2	0.5	§ Brg 3	0.6	§ Brg 4	0.1	§ Brg 2	0.5	§ Brg 3	0.6	§ Brg 4	0.1	§ Brg 5	0.5	§ Brg 6	0.6	
Is (in ⁴)	40557	61360	40557	93114	44090		40557	62775	30426	62775	86098		9040	18900	9750	22500	13200		Is (in ⁴)
Ic (in ⁴)	87610	61360	87610	93114	140101		82539	82775	7161	82775	161654		20283	18900	22639	22500	29812		Ic (in ⁴)
Ss (in ³)	1201	1791	1201	2678	2223		1201	2382	1311	2382	2834		504	1030	542	1210	719		Ss (in ³)
Sc (in ³)	1572	1791	1572	2678	2764		1546	2382	1695	2382	3350		695	1030	753	1210	993		Sc (in ³)
Wg (k/ft)	1.006		1.006		1.104		0.878		0.888		1.110		0.629		0.731		0.885		Wg (k/ft)
Mg (ft-k)	700.3	1344.9	511.4	2558.3	1760.7		567.8	1248.0	874.1	1248.0	2253.8		269.7	786.3	301.3	987.0	440.5		Mg (ft-k)
fs-non-comp. (ksi)	700	9.01	5.11	11.46	9.50		5.67	6.29	8.00	6.29	9.54		6.42	9.16	6.67	9.79	7.35		fs-non-comp. (ksi)
Wsg (k/ft)	0.118		0.118		0.118		0.265		0.265		0.265		0.071		0.071		0.071		Wsg (k/ft)
Msg (ft-k)	89.6	143.4	98.7	238.4	207.0		175.2	385.0	267.1	385.0	522.0		37.3	71.5	43.1	73.0	37.8		Msg (ft-k)
Ml (ft-k)	910.2	901.4	1046.5	1278.8	1423.1		820.2	873.2	707.9	873.2	1436.3		429.0	480.7	563.4	584.0	648.6		Ml (ft-k)
M imp. (ft-k)	201.2	183.9	201.6	239.1	263.5		182.1	245.4	165.6	245.4	267.2		100.8	106.2	117.8	129.1	151.8		M imp. (ft-k)
M total (ft-k)	1201.0	1228.7	1366.8	1756.3	1893.4		1177.5	1503.6	1140.6	1503.6	2225.5		567.1	658.4	724.3	786.1	838.2		M total (ft-k)
fs comp. (ksi)	9.17	8.23	10.43	7.87	8.22		9.14	7.57	8.08	7.57	7.97		9.79	7.67	11.54	7.80	10.13		fs comp. (ksi)
fs total (ksi)	16.17	17.24	15.54	19.33	17.72		14.81	13.86	16.08	13.86	17.52		16.21	16.83	18.21	17.59	17.48		fs total (ksi)
V range (k)	58.9		60.6		55.9		53.9		43.1		64.0		41.0		50.0		61.4		V range (k)
Rg (k)	42.4	143.0	200.4	68.8	41.6		153.7		189.8		87.6	21.0	84.5		101.8		30.5		Rg (k)
Rl (k)	43.0	77.8	90.9	45.4	35.1		64.0		73.7		47.9	29.5	52.4		62.0		45.5		Rl (k)
R imp. (k)	9.5	15.9	17.0	8.4	7.9		19.2		22.1		8.9	6.9	11.6		13.7		10.6		R imp. (k)
R total (k)	94.9	236.7	308.3	122.6	84.9		236.9		285.6		144.4	57.4	148.5		177.5		86.6		R total (k)

Location																			Location
Is (in ⁴)																			Is (in ⁴)
Ic (in ⁴)																			Ic (in ⁴)
Ss (in ³)																			Ss (in ³)
Sc (in ³)																			Sc (in ³)
Wg (k/ft)																			Wg (k/ft)
Mg (ft-k)																			Mg (ft-k)
fs-non-comp. (ksi)																			fs-non-comp. (ksi)
Wsg (k/ft)																			Wsg (k/ft)
Msg (ft-k)																			Msg (ft-k)
Ml (ft-k)																			Ml (ft-k)
M imp. (ft-k)																			M imp. (ft-k)
M total (ft-k)																			M total (ft-k)
fs comp. (ksi)																			fs comp. (ksi)
fs total (ksi)																			fs total (ksi)
V range (k)																			V range (k)
Rg (k)																			Rg (k)
Rl (k)																			Rl (k)
R imp. (k)																			R imp. (k)
R total (k)																			R total (k)

Legend

I_s and S_x are the moment of inertia and section modulus of the steel section used in computing f_s TOTAL
 I_c and S_y are the moment of inertia and section modulus of the composite section used in computing f_s TOTAL
 V_R is the maximum & minimum shear range in span.

SHEET 810 OF 833

REVISIONS	
Name	Date

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)

SECTION 1985-0778 - COOK COUNTY

N.B. MAINLINE RECONSTRUCTION

STRUCTURE 016-110

MOMENT, REACTION & STRESS TABLE

Scale: NONE Drawn By: MS
Date: AUG. 1988 Checked By: MEN

ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\V\AECOM-NA-AW51\arecomonline\local\AECOM_DS02_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

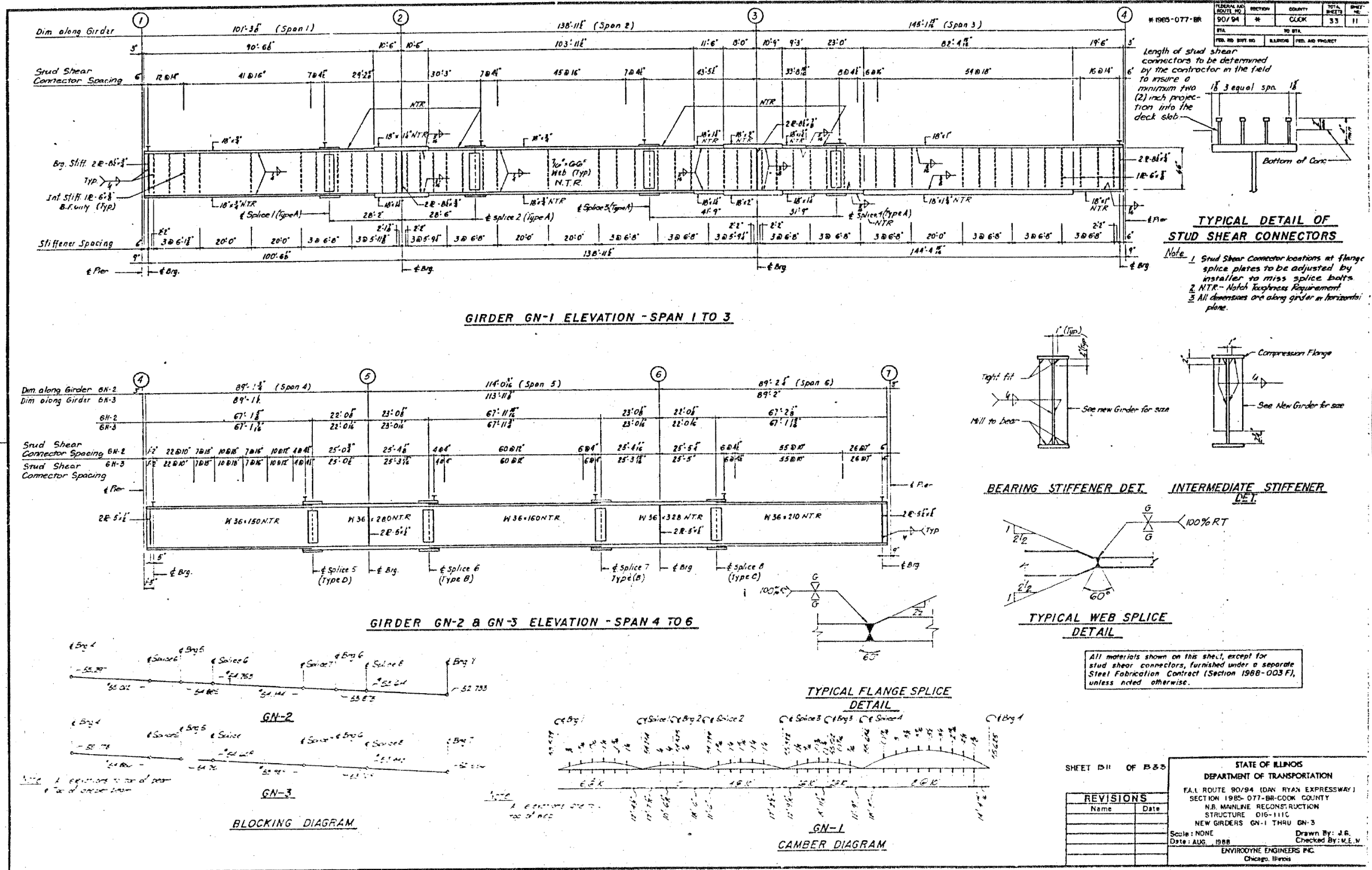
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-10 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1505
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY



FILE NAME: D:\V\AE\COM-NA-AW51\ae\comonline\local\AE\COM_D502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

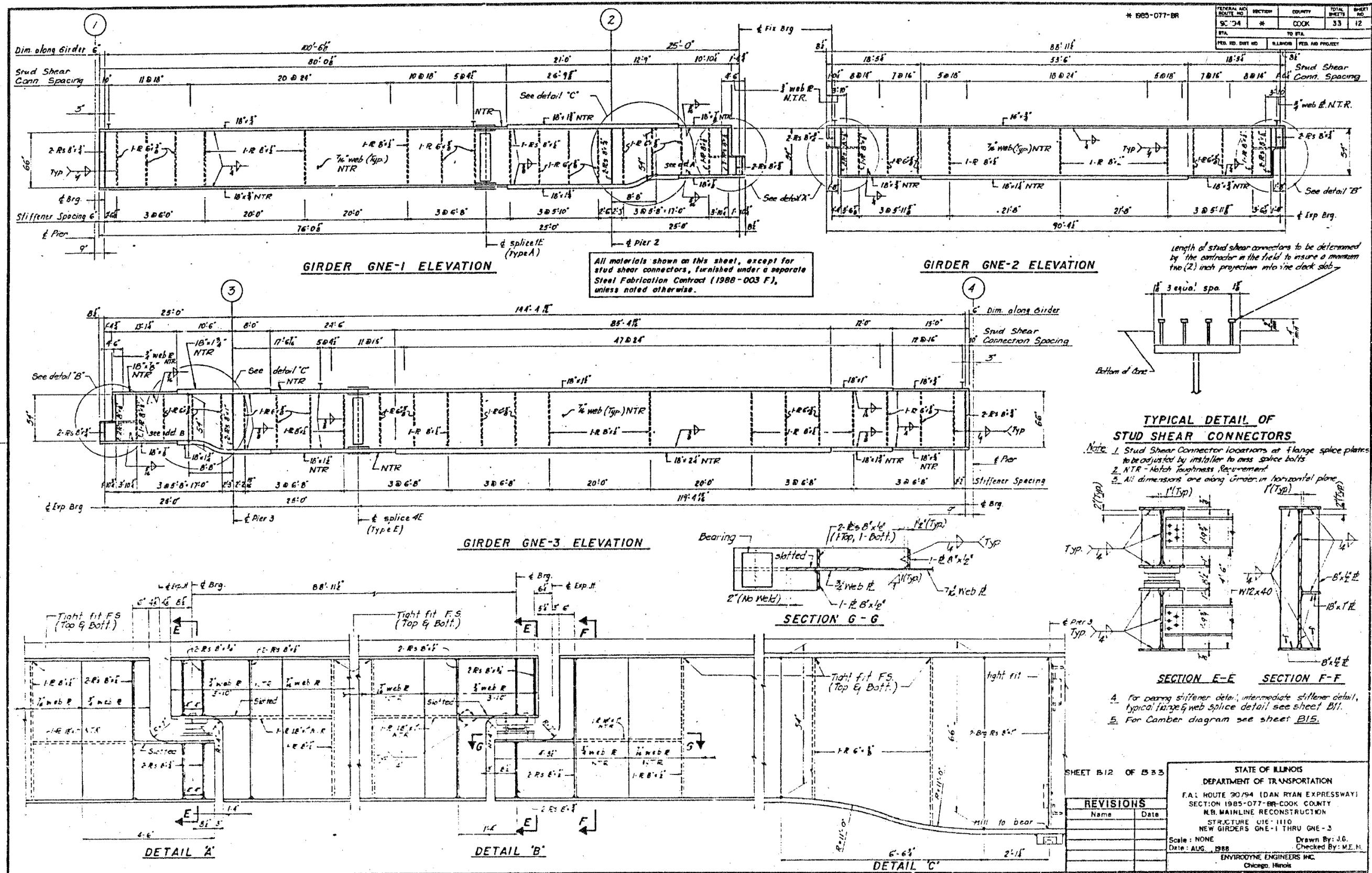
EXISTING RECORD DRAWINGS

STRUCTURE NO. 016-1110

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1506
CONTRACT NO. 62A76				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



FILE NAME: D:\V\AE\COM-NA-AWS1\...
DRAWING NO: 016-1110-12
DATE: 1/24/2020



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

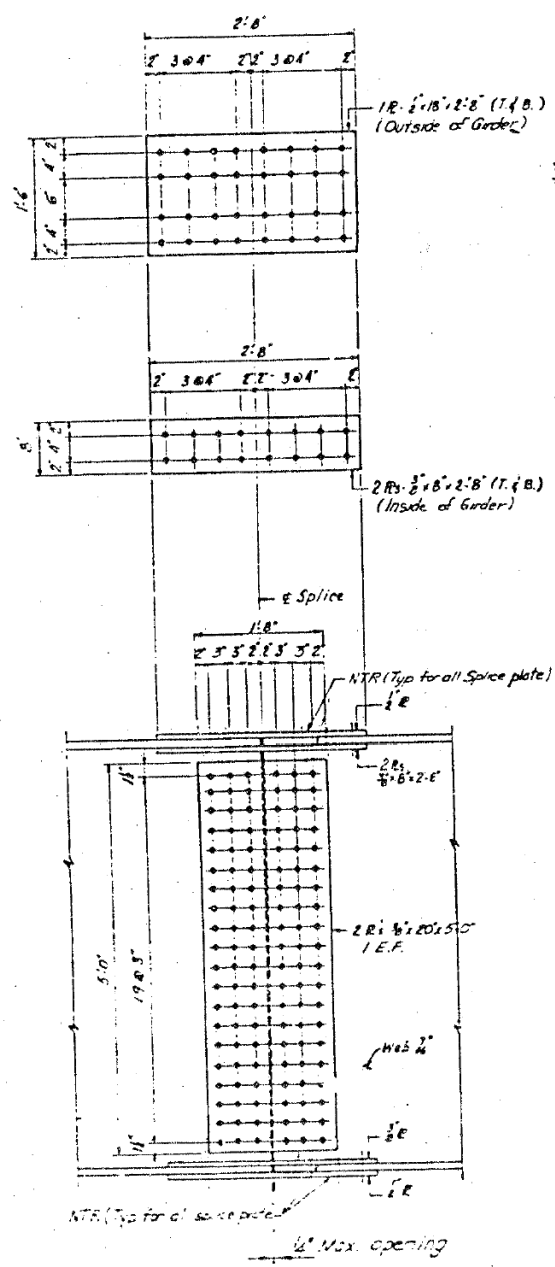
SHEET NO. AS13-12 OF AS13-82 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS 33	SHEET NO. 12
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

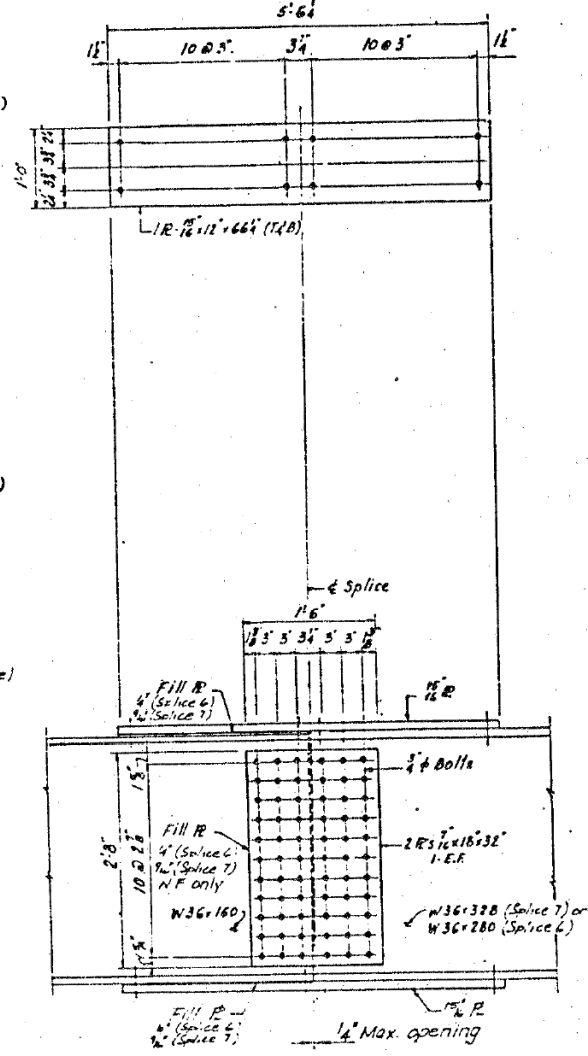
FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/294	#	COOK	53	13
STA.	TO STA.			
FED. PROJ. NO.	ILLINOIS	FED. AID PROJECT		

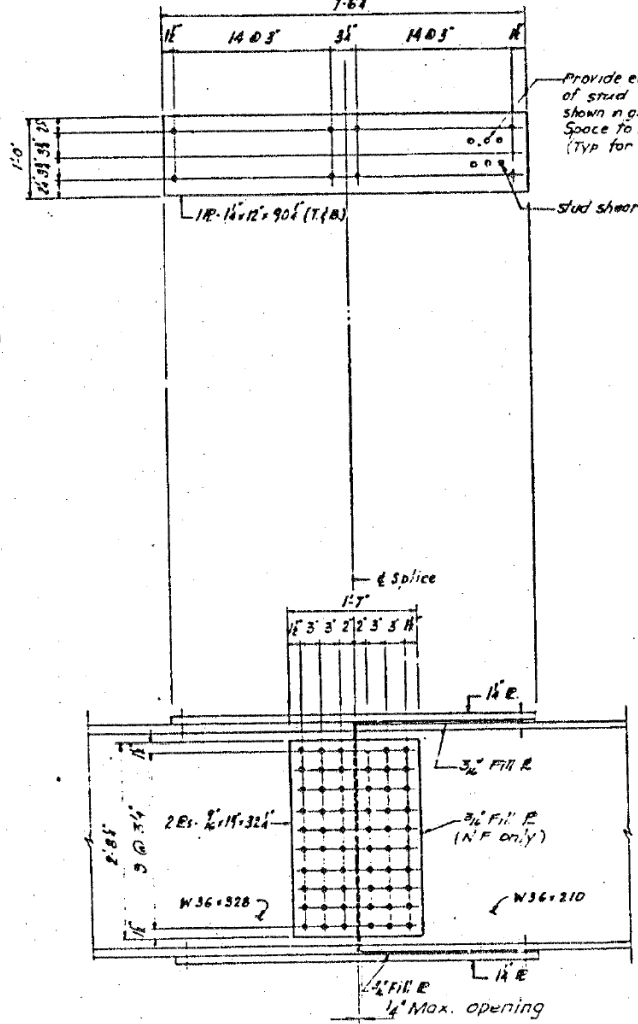
1985-077- BR



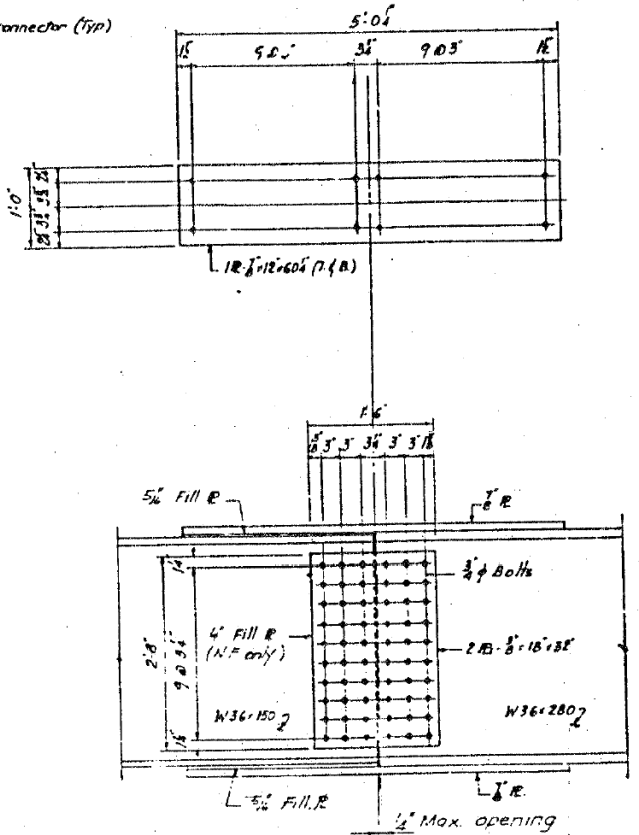
ELEVATION OF FIELD SPLICE
TYPE A



ELEVATION OF FIELD SPLICE
TYPE B



ELEVATION OF FIELD SPLICE
TYPE C



ELEVATION OF FIELD SPLICE
TYPE D

Provide equivalent number of stud shear connections as shown in girder elevation. Space to miss splice bolts (Typ for all splices)

Stud shear connector (Typ)

Note: 1. NTR - Matched Transversal Reinforcement - All Splice Plates

All materials shown on this sheet furnished under a separate Steel Fabrication Contract (Sector 1985-003 F), unless noted otherwise.

SHEET 513 OF 533

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/294 (DAN RYAN EXPRESSWAY)
SECTION 1985-077-BR-COOK COUNTY
NE MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
FIELD SPLICE DETAILING

Scale: NONE
Date: AUG. 1988
Drawn By: A.V.
Checked By: M.E.W.
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\V\AECOM\NA-AWS1\arcocomonline\local\AECOM_DS02_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Sign_Structures\62A76-Sign_Structure\62A76-Span-55229-Extr\plans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

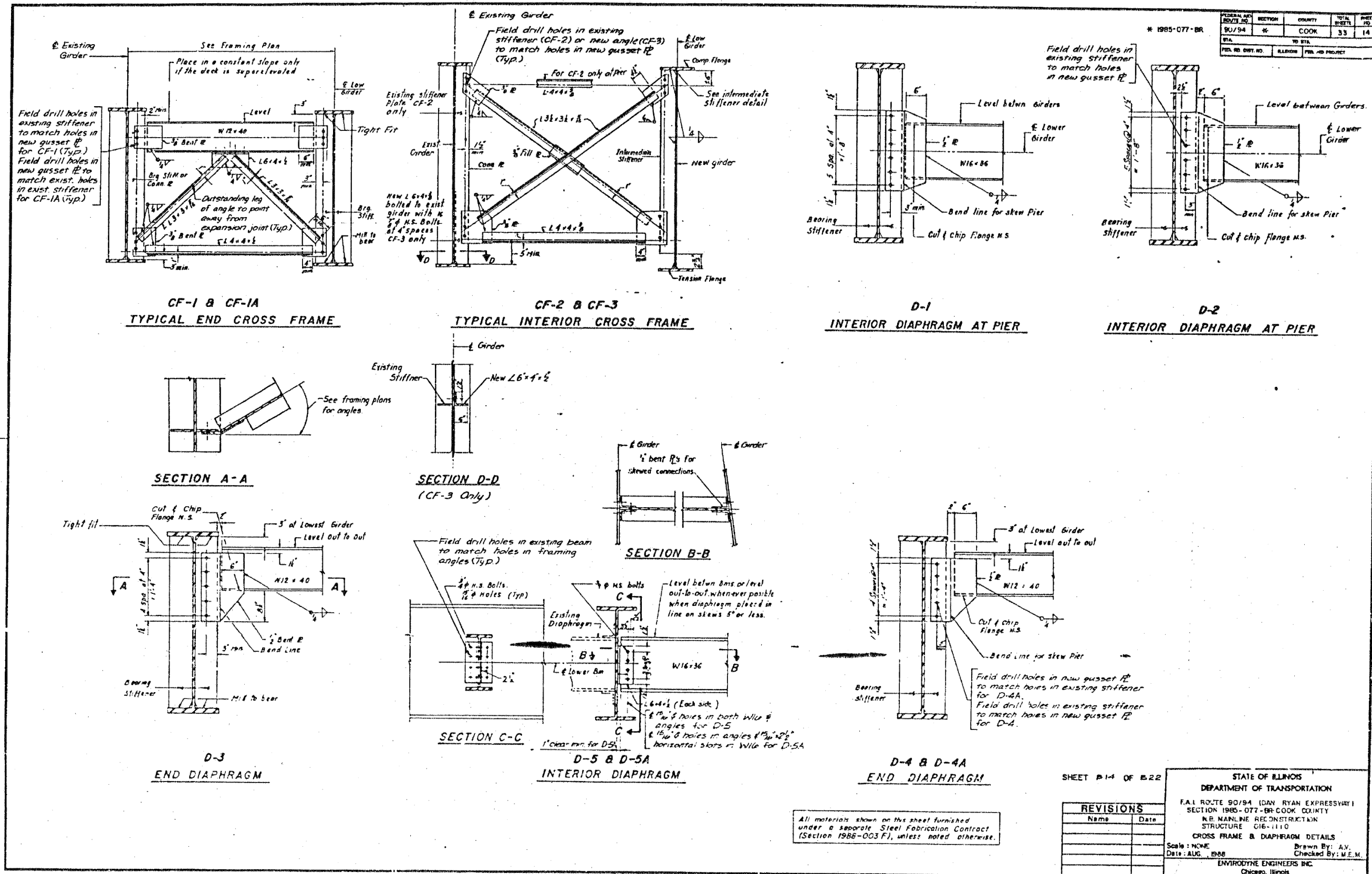
SHEET NO.AS13-13 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1508
			CONTRACT NO. 62A76	

ILLINOIS FED. AID PROJECT

10:59:56 AM

FOR INFORMATION ONLY



FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	11	COOK	33	14
STA.	TO STA.			
FED. AID DIST. NO.	ALLOCATION	FED. AID PROJECT		

SHEET 114 OF 122

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 90/94 IDAN RYAN EXPRESSWAY
SECTION 1985-077-88 COOK COUNTY
N.E. MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
CROSS FRAME & DIAPHRAGM DETAILS

Scale: NONE
Date: AUG. 1988

Drawn By: A.V.
Checked By: M.E.M.
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

REVISIONS	
Name	Date

All materials shown on this sheet furnished under a separate Steel Fabrication Contract (Section 1985-003 F), unless noted otherwise.

FILE NAME: D:\V\AECOM\NA-AW51\arecomonline\local\AECOM_DS02_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME =	francisco.lopez	DESIGNED -	JMI	REVISED -	
PLOT SCALE =	N.T.S	CHECKED -	MAI, JJS	REVISED -	
PLOT DATE =	1/24/2020	DRAWN -	JMI	REVISED -	
		CHECKED -	MAI, JJS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

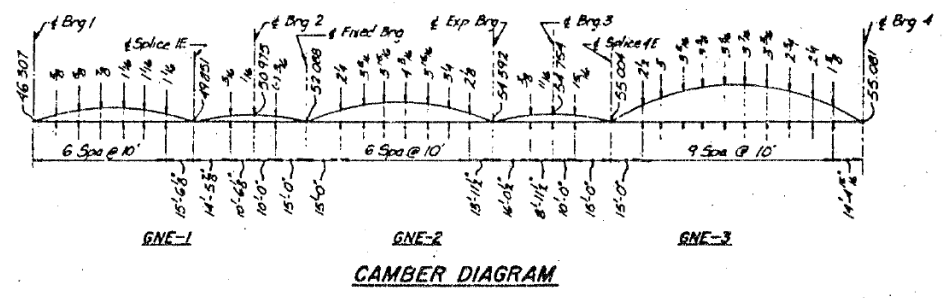
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-14 OF AS13-82SHEETS

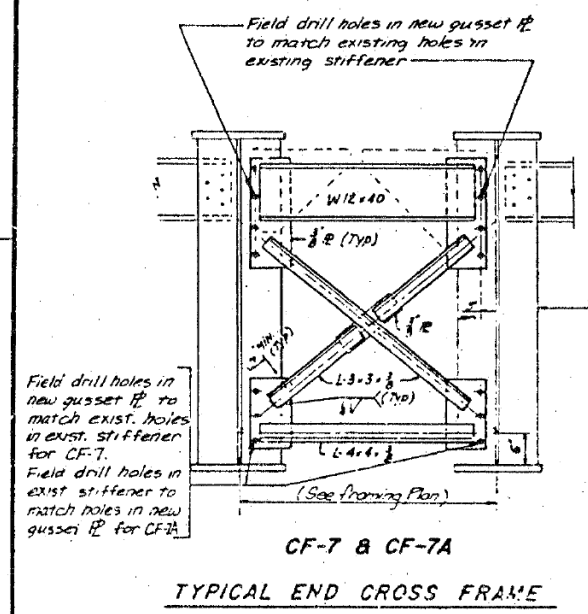
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1509
CONTRACT NO. 62A76				
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

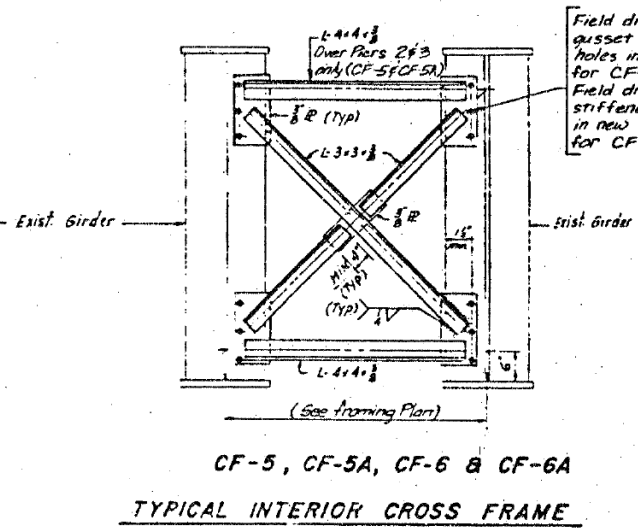
FEDERAL AID DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	#	COOK	33	15
STA.	TO STA.			
FED. RD. DIST. NO.	ALLIANCE	FED. AID PROJECT		
		# 1985-077-BR		



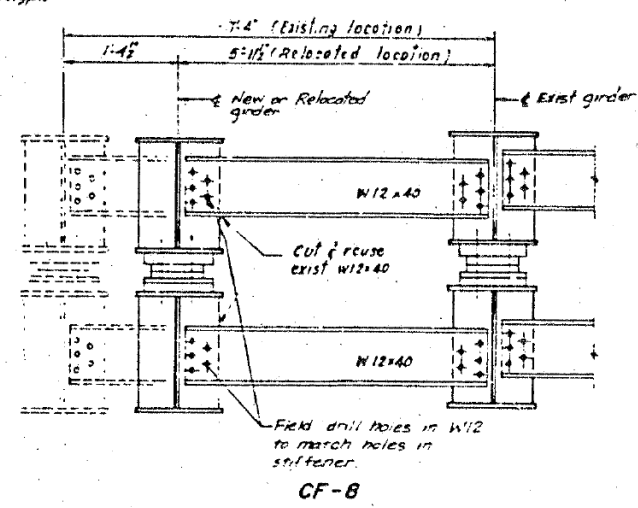
CAMBER DIAGRAM



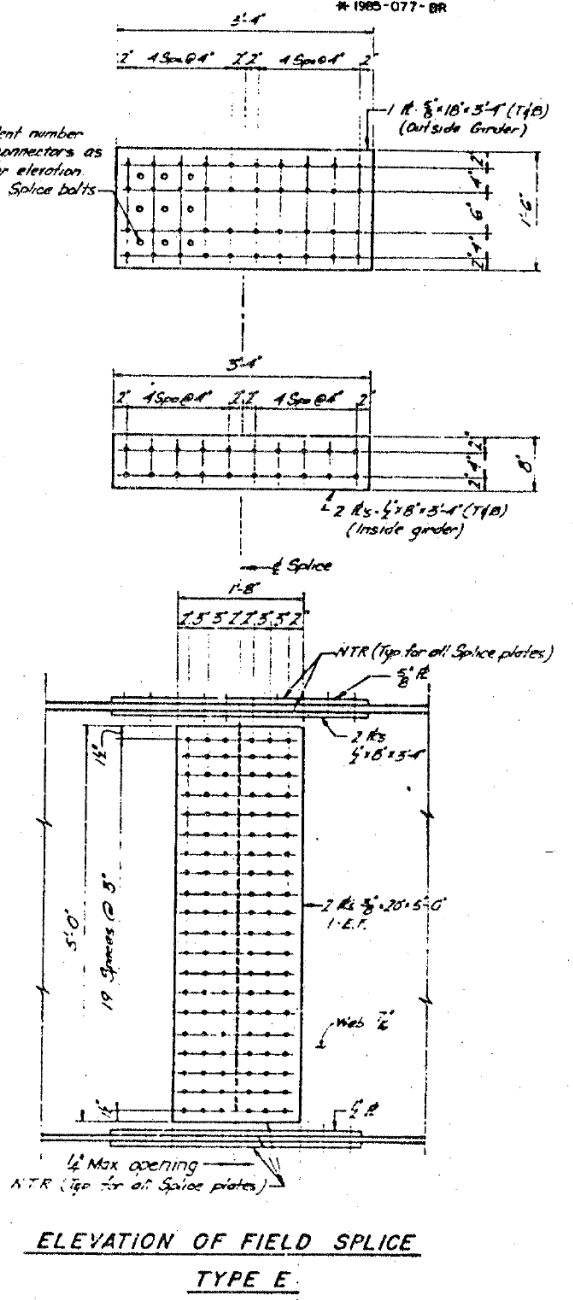
**CF-7 & CF-7A
TYPICAL END CROSS FRAME**



**CF-5, CF-5A, CF-6 & CF-6A
TYPICAL INTERIOR CROSS FRAME**



CF-8



**ELEVATION OF FIELD SPLICE
TYPE E**

All materials shown on this sheet furnished under a separate Steel Fabrication Contract (Section 1985-003 F), unless noted otherwise.

SHEET 15 OF 33		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION																												
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY) SECTION 1985-077-BR-COOK COUNTY NB MAINLINE RECONSTRUCTION STRUCTURE 016-1110 CROSS FRAME & FIELD SPLICE DETAILS		Scale: NONE Date: AUG 1988 Drawn By: A.V. Checked By: N.E.V. ENVIRODYNE ENGINEERS INC. Chicago, Illinois																												
<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>Name</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS		Name	Date									<table border="1"> <tr> <td>F.A.I. RTE.</td> <td>SECTION</td> <td>COUNTY</td> <td>TOTAL SHEETS</td> <td>SHEET NO.</td> </tr> <tr> <td>90/94/290</td> <td>2015-019R</td> <td>COOK</td> <td>2155</td> <td>1510</td> </tr> <tr> <td colspan="5">CONTRACT NO. 62A76</td> </tr> </table>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	90/94/290	2015-019R	COOK	2155	1510	CONTRACT NO. 62A76				
REVISIONS																														
Name	Date																													
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																										
90/94/290	2015-019R	COOK	2155	1510																										
CONTRACT NO. 62A76																														

FILE NAME: D:\V\AE\COM-NA-AW51\ae\comonline\local\AE\COM_ID502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_III\000_CAD\008_Structural\Sign_Structures\62A76_Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

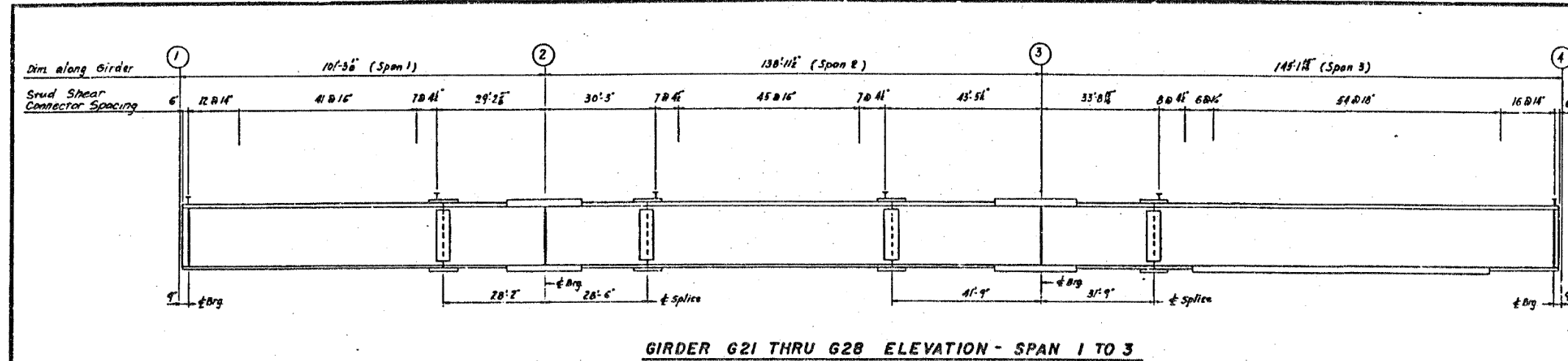
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

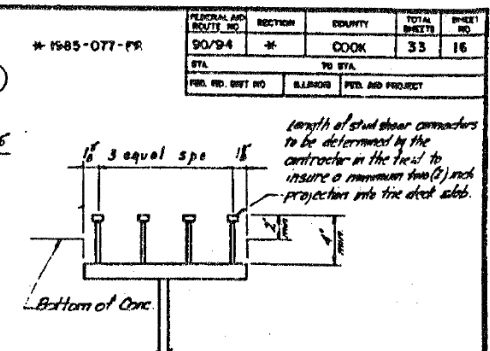
SHEET NO.AS13-15 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1510
CONTRACT NO. 62A76				

FOR INFORMATION ONLY



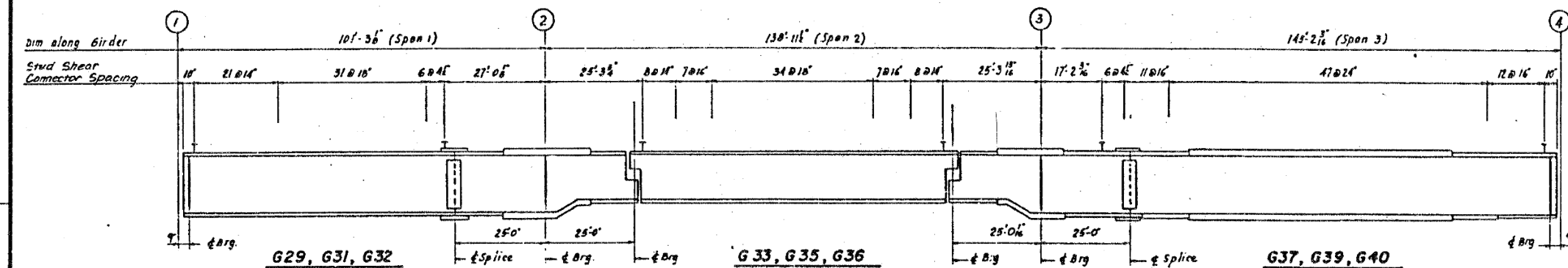
GIRDER G21 THRU G28 ELEVATION - SPAN 1 TO 3



TYPICAL DETAIL OF STUD SHEAR CONNECTORS

Note: Stud Shear Connector locations at flange splice plates to be adjusted by installer to miss splice bolts.

2. All dimensions are along girder in horizontal plane.



GIRDER G29 THRU G40 ELEVATION - SPAN 1 TO 3

SHEET B16 OF B33

REVISIONS	
Name	Date

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-077-BR-COOK COUNTY
 N.B. MAINLINE RECONSTRUCTION
 STRUCTURE 016-1110
 EXISTING GIRDER STUD SHEAR CONNECTOR SPACING
 Scale: NONE
 Date: AUG. 1988
 Drawn By: J.G.
 Checked By: M.E.M.
 ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

FILE NAME: D:\V\AECOM-NA-AWS1\arcocomonline-local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase\Structural\Sign_Structure\62A76-Span-55229-Exftplans.dgn



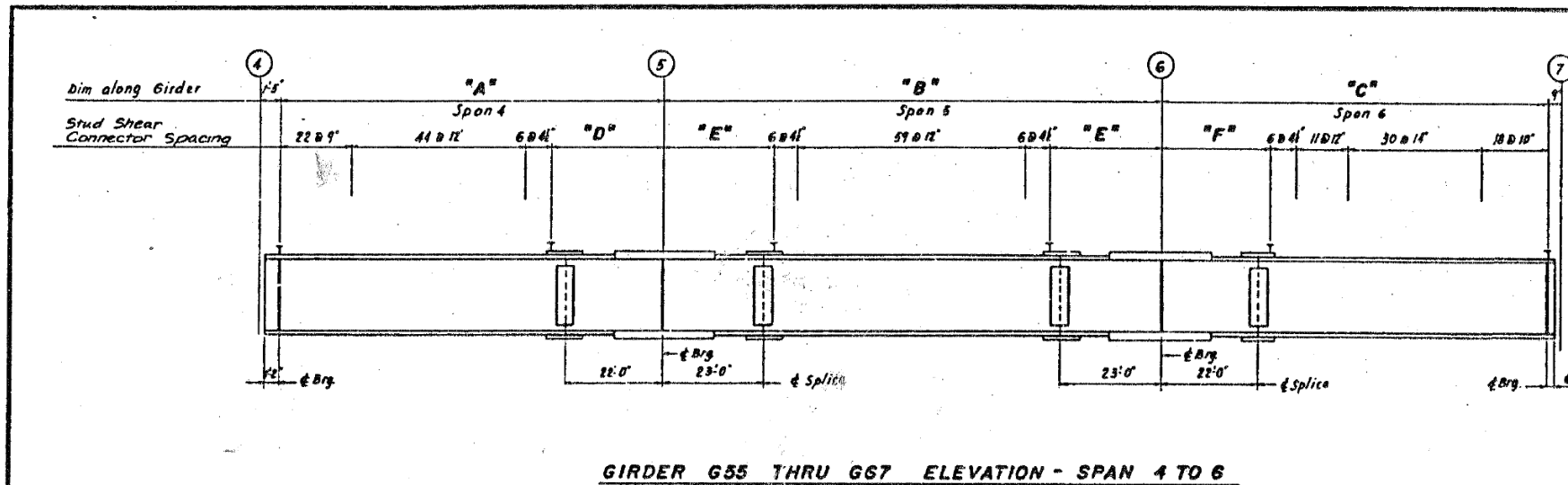
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PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
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	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

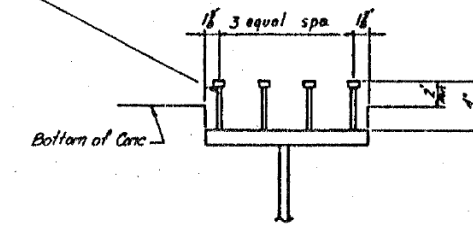
EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110
 SHEET NO.AS13-16 OF AS13-82SHEETS

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS 2155	SHEET NO. 1511
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY



Length of stud shear connectors to be determined by the contractor in the field to insure a minimum two (2) inch projection into the deck slab.



TYPICAL DETAIL OF STUD SHEAR CONNECTORS

- Note:
1. Stud Shear Connector locations at flange splice plates to be adjusted by installer to miss splice bolts.
 2. All dimensions are along girder in horizontal plane.

GIRDER	"A"	"B"	"C"	"D"	"E"	"F"
655-660	87'-11 1/2"	113'-11 1/2"	88'-7 1/2"	25'-2 1/2"	25'-2 1/2"	25'-4 1/2"
661	87'-11 1/2"	113'-11 1/2"	88'-7 1/2"	25'-2 1/2"	25'-2 1/2"	25'-4 1/2"
662	87'-11 1/2"	113'-11 1/2"	88'-7 1/2"	25'-2 1/2"	25'-2 1/2"	25'-4 1/2"
663	87'-11 1/2"	113'-11 1/2"	88'-7 1/2"	25'-2 1/2"	25'-2 1/2"	25'-4 1/2"
664	87'-11 1/2"	113'-11 1/2"	88'-0 1/2"	25'-2 1/2"	25'-2 1/2"	25'-5 1/2"
665	87'-11 1/2"	114'-0 1/2"	88'-0 1/2"	25'-2 1/2"	25'-3 1/2"	25'-5 1/2"
666	87'-11 1/2"	114'-0 1/2"	88'-0 1/2"	25'-2 1/2"	25'-3 1/2"	25'-5 1/2"
667	88'-0 1/2"	114'-0 1/2"	88'-0 1/2"	25'-3 1/2"	25'-3 1/2"	25'-5 1/2"

SHEET 517 OF 523

REVISIONS

Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1965-077-BR-COOK COUNTY
NB. MAINLHE RECONSTRUCTION
STRUCTURE 016-1110

EXISTING GIRDER STUD SHEAR CONNECTOR SPACING

Scale: NONE
Date: AUG. 1988

Drawn By: J.G.
Checked By: M.E.M.

ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1512
CONTRACT NO. 62A76				

SHEET NO.AS13-17 OF AS13-82SHEETS

ILLINOIS FED. AID PROJECT

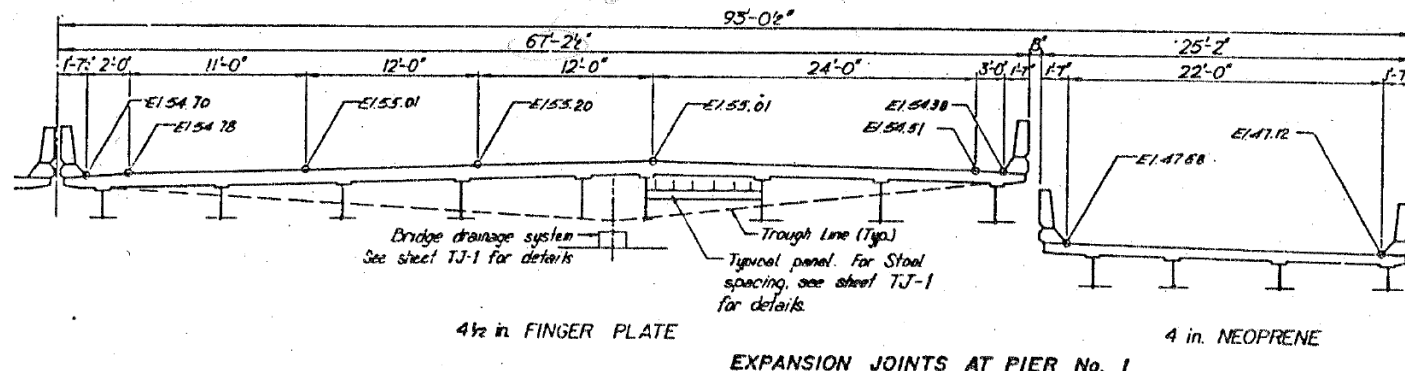
HBM
ENGINEERING GROUP, LLC

USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
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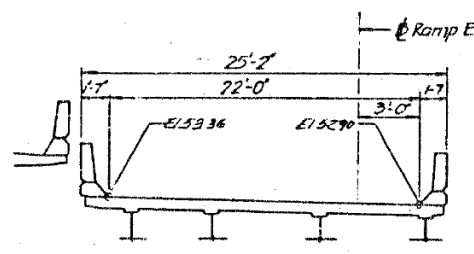
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY

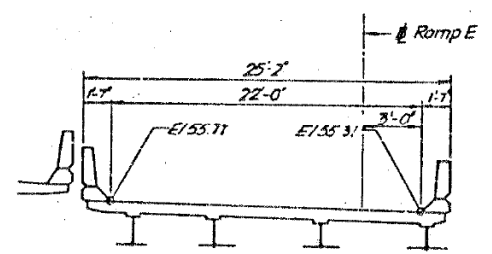
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	4	COOK	33	18
FED. AID PROJECT		1985-077 BR		



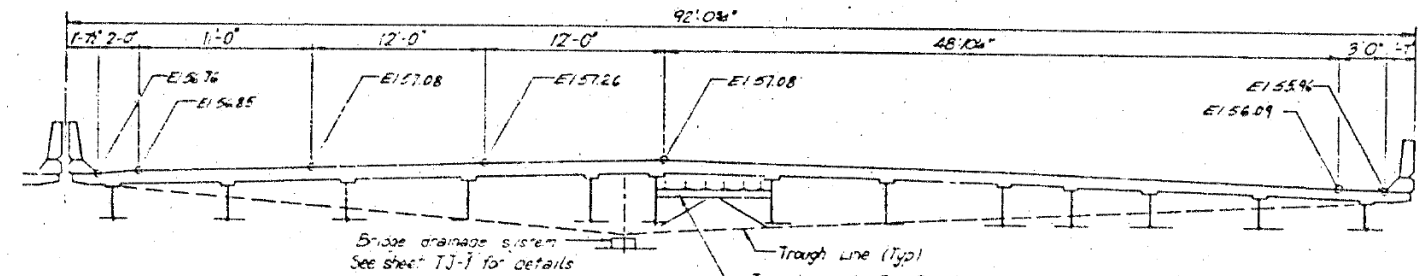
EXPANSION JOINTS AT PIER No. 1



EXPANSION JOINT 'A' SPAN 2
2 1/2 in. PREFORMED JOINT SEAL



EXPANSION JOINT 'B' SPAN 2
2 in. NEOPRENE



EXPANSION JOINT AT PIER No. 4

4 1/2 in. FINGER PLATE

NURSIA
NOC
373 6743

- Notes:
- All Dimensions are along Centerline of Joint.
 - For details see sheets TJ1, TJ2 & TJ3.
 - All Sections looking up-station.

SHEET 018 OF 033

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077-B1-COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
TRANSVERSE DECK JT. ELEVATION
Scale: NONE
Date: AUG. 1988
Drawn By: J.S.
Checked By: M.F.M.
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

12-1-88

FILE NAME: D:\V\AECOM-NA-AW51... \Documents\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

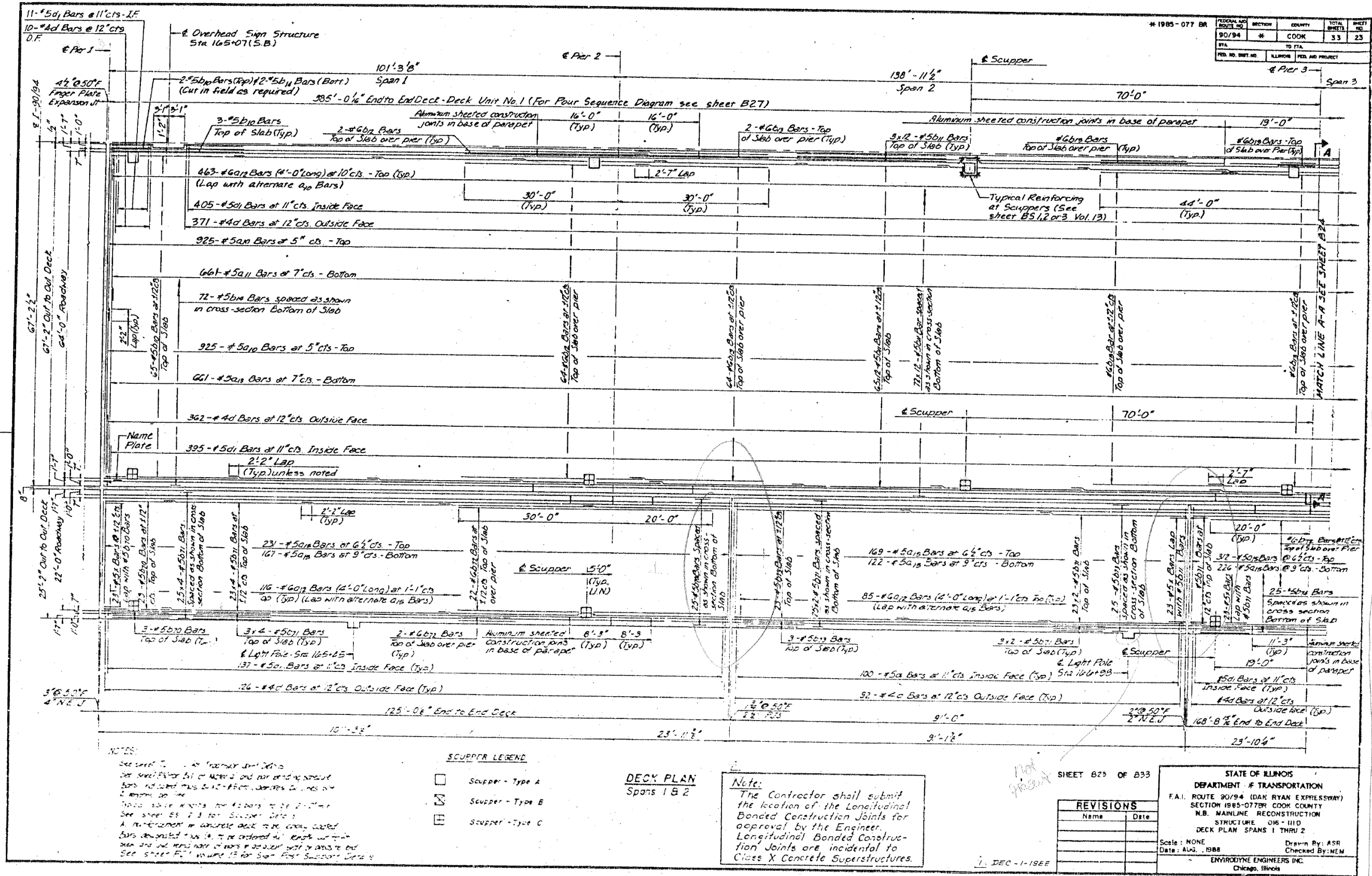
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-18 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1513
CONTRACT NO. 62A76				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



FILE NAME: D:\V\AE\COM-NA-AWS1\aecononline\local\AE\COM_ID502_NAV\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
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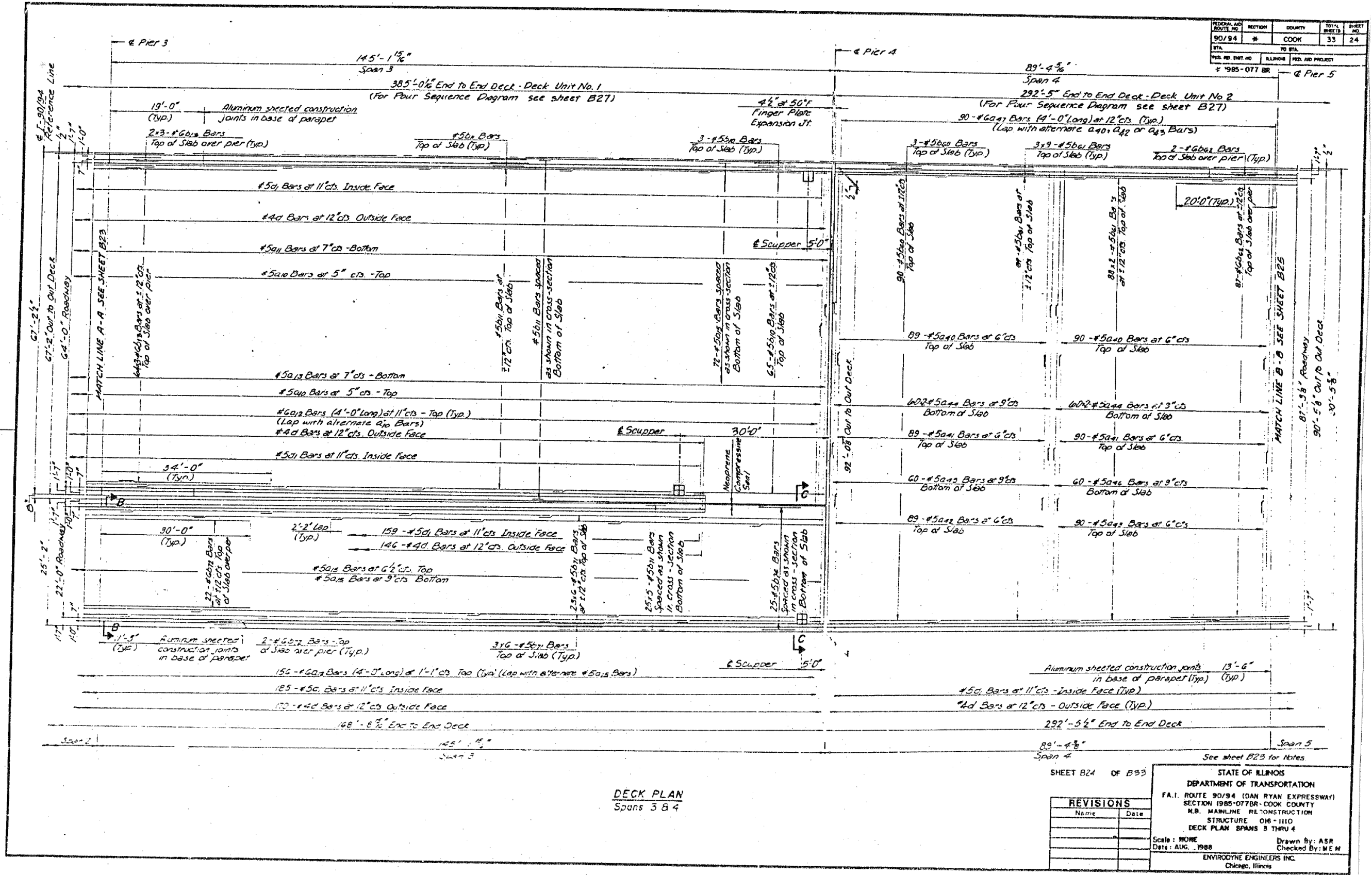
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS 2155	SHEET NO. 1514
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

SHEET NO. AS13-19 OF AS13-82 SHEETS

FOR INFORMATION ONLY



FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	33	24
VIA TO STA.				
FED. AID PROJECT				
* 1985-077 BR				

DECK PLAN
Spans 3 & 4

SHEET B24 OF B33

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-077BR-COOK COUNTY
 M.B. MAINLINE RECONSTRUCTION
 STRUCTURE 016-1110
 DECK PLAN SPANS 3 THRU 4

Scale: NONE
 Date: AUG. 1988
 Drawn By: ASR
 Checked By: MEM

ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

REVISIONS	
Name	Date

FILE NAME: D:\V\AECOM\NA-AWS1\acconline\local\AECOM_D502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Sign_Structure\62A76_Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

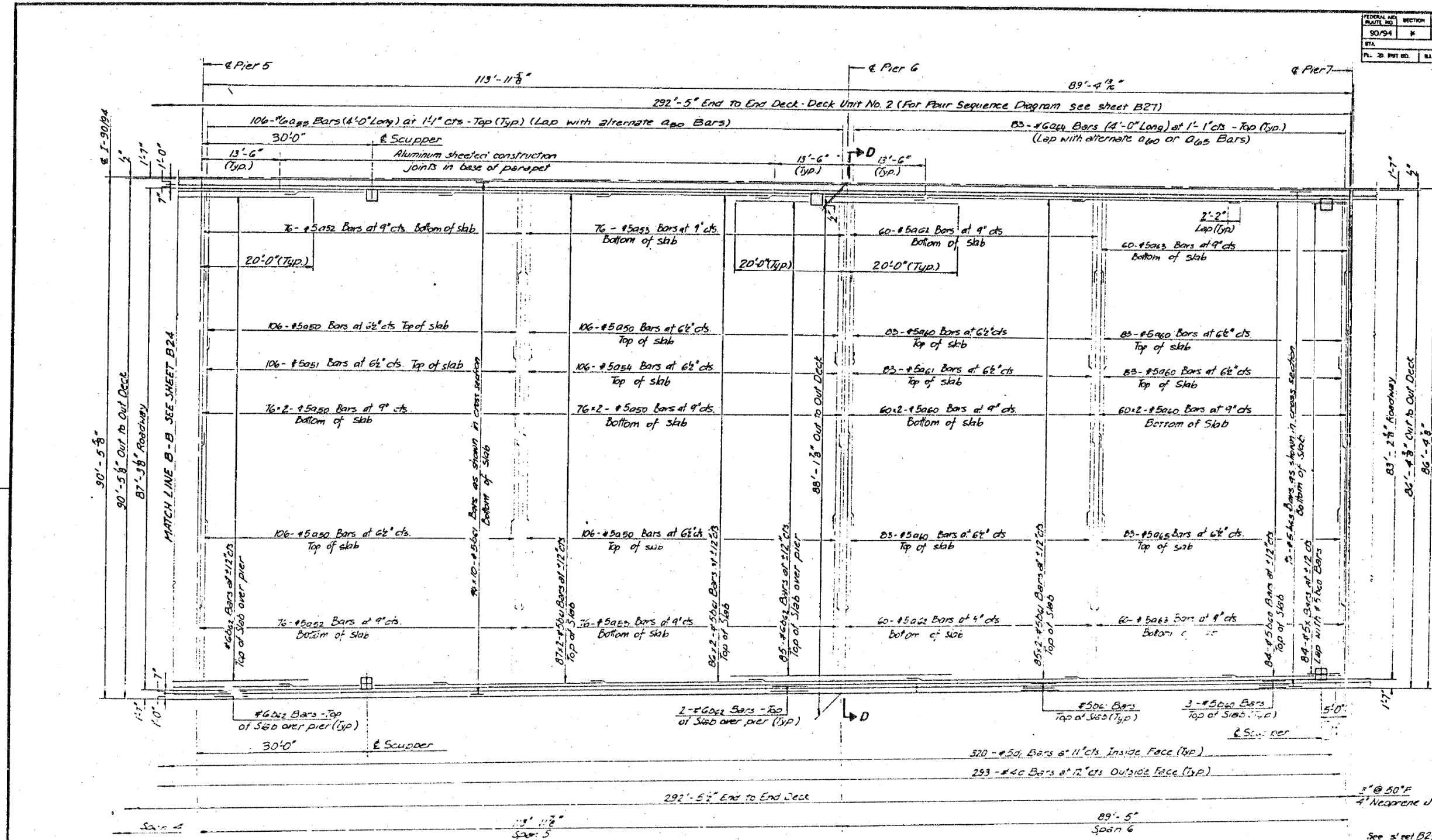
EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1515
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

SHEET NO. AS13-20 OF AS13-82 SHEETS

FOR INFORMATION ONLY

FEDERAL AID DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	K	COOK	33	25
F.A.I. TO STATE		ILLINOIS FEDERAL PROJECT		
PL. 20 DIST. NO.		# 1985-077F		



DECK PLAN
Spans 5 & 6

SHEET B25.v OF B33

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (D.N. RYAN EXPRESSWAY)
SECTION 1985-077F.1 COOK COUNTY
M.B. MAINLINE RECONSTRUCTION
STRUCTURE D16-1110
DECK PLAN SPANS 5 THRU 6

Scale: NONE
Date: AUG. 1988
Drawn By: ASB
Checked By: M.E.M.

ENVIRONMENTAL ENGINEERS P.C.
Chicago, Illinois

See steel B23 for Notes

FILE NAME: D:\V\AECOM\NA-AWS1\arcocomonline\local\AECOM_ID502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\1000_CAD\008_Structural\Sign_Structures\62A76-Sign_Structures\62A76-Span-55229-Extrplans.dgn



USER NAME =	francisco.lopez	DESIGNED -	JMI	REVISED -	
CHECKED -	MAI, JJS	CHECKED -	MAI, JJS	REVISED -	
PLOT SCALE =	N.T.S	DRAWN -	JMI	REVISED -	
PLOT DATE =	1/24/2020	CHECKED -	MAI, JJS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

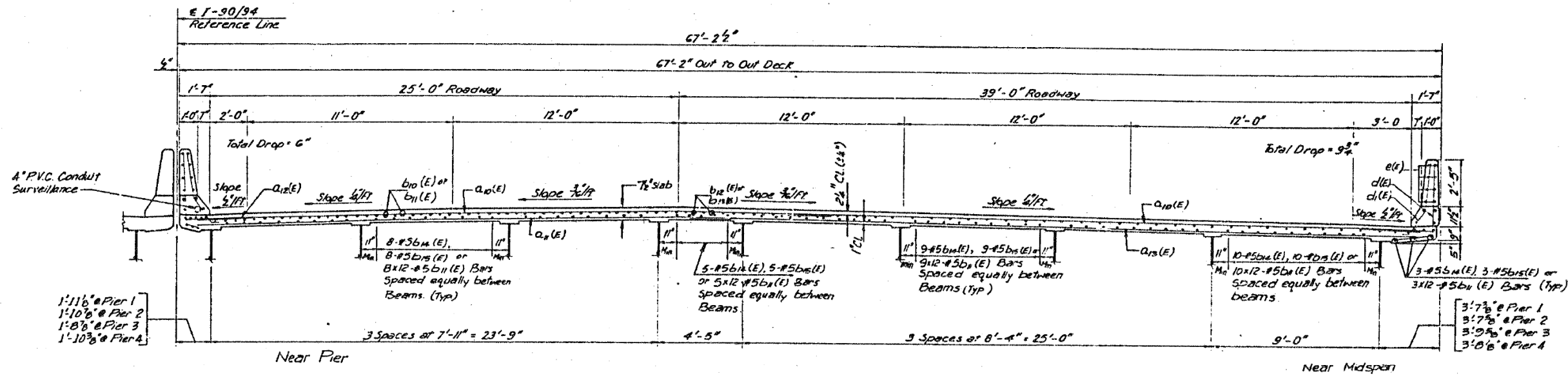
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO. AS13-21 OF AS13-82 SHEETS

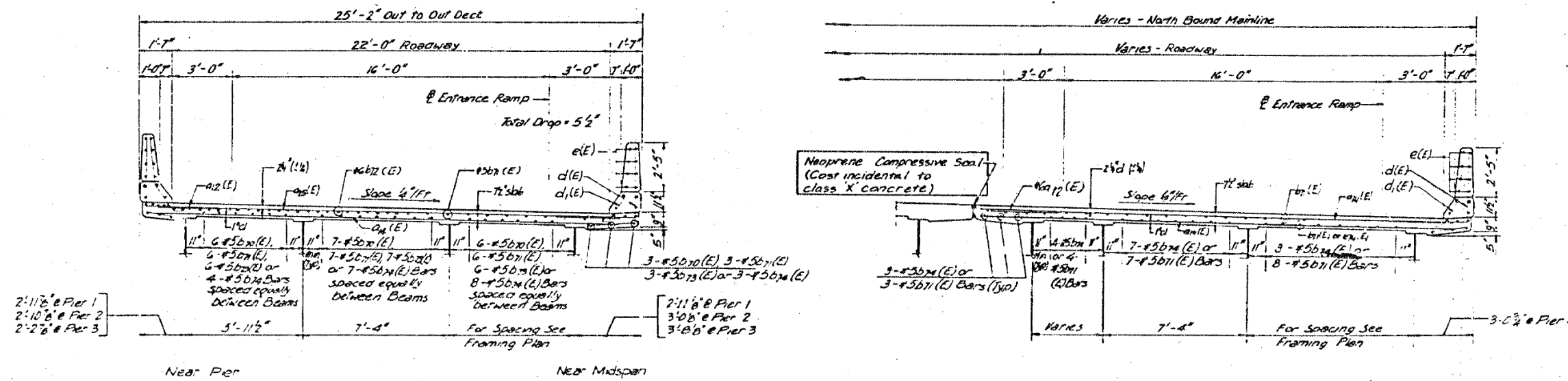
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1516
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	33	26
STATE OF ILLINOIS				
FED. AID PROJECT				
SECTION 1985-077 BR				



SECTION A-A (Looking North)



SECTION B-B (Looking North)

SECTION C-C (Looking North)

See sheet B23 for Notes

SHEET B26 OF B23

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 DAN RYAN EXPRESSWAY
SECTION 1985-077 BR COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
STRUCTURE D16-1110
CROSS SECTION-UNIT 1

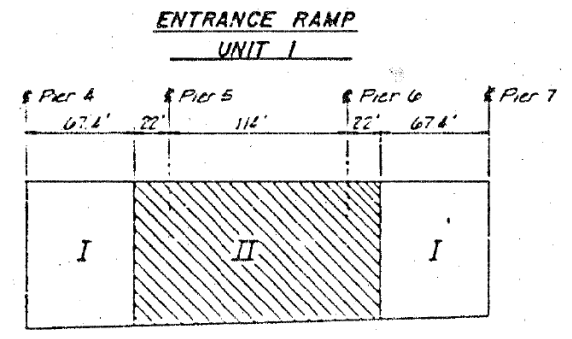
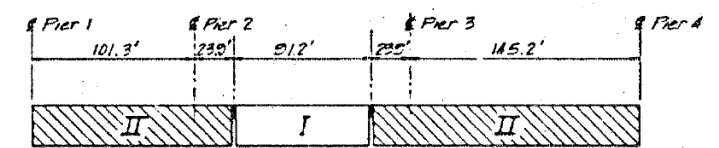
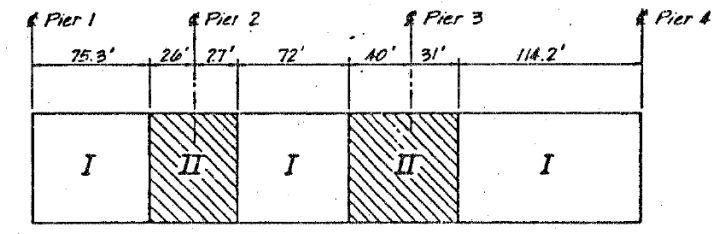
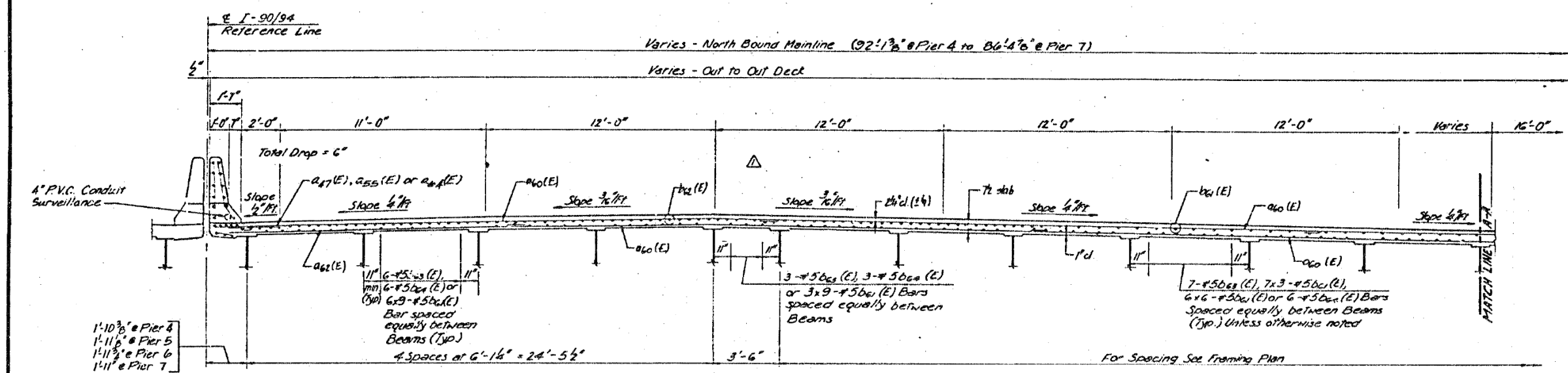
Scale: NONE
Date: AUG., 1988
Drawn By:
Checked By:
EMVIRODINE ENGINEERS INC.
Chicago, Illinois

USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1517
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

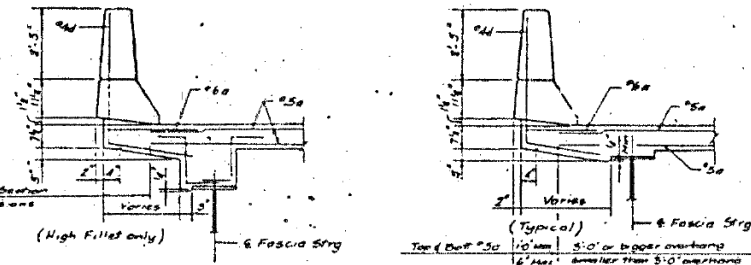
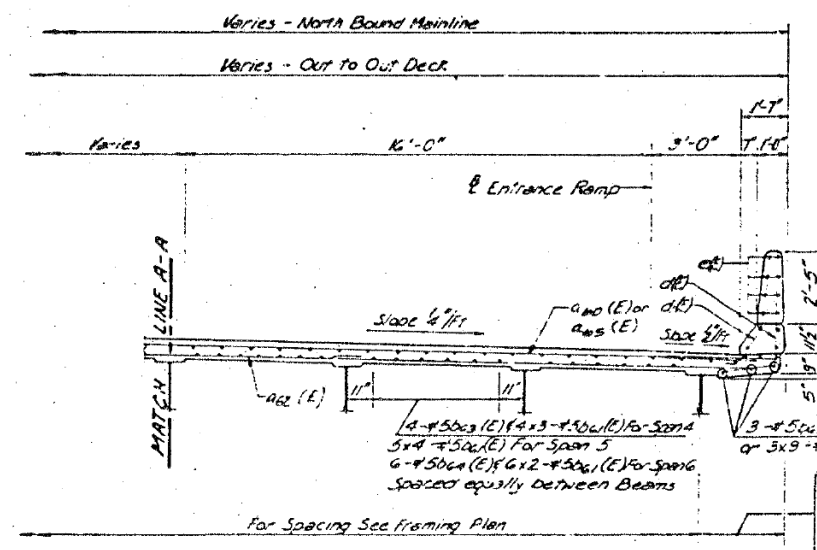
FOR INFORMATION ONLY

FEDERAL AID DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	8	COOK	33	27
ETA	TO STA.			
FED. AID DIST. NO.	ALLOCATION	FED. AID PROJECT		
SECTION 1985-077BR				



Pours in area designated I shall be placed & cured before placing concrete in area II
POUR SEQUENCE DIAGRAMS

SECTION D-D (Looking North)



SLAB FASCIA DETAILS

SHEET B27 OF B33

REVISIONS	
Name	Date

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 IDAN RYAN EXPRESSWAY
 SECTION 1985-077BR-COOK COUNTY
 N.B. MAINLINE RECONSTRUCTION
 STRUCTURE 016-1110
 CROSS SECTION-UNIT 2

Scale: NONE
 Date: AUG. 1988
 Drawn By: [Blank]
 Checked By: [Blank]

EMVRODYNE ENGINEERS INC.
 Chicago, Illinois

FILE NAME: D:\V\AECOM-NA-AWS1\arecomonline\local\AECOM_ID502_NA\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

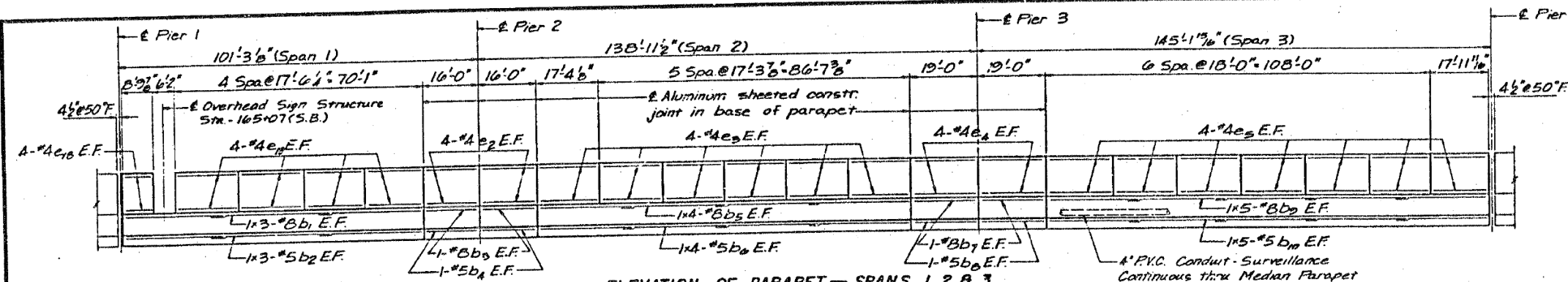
EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110

SHEET NO.AS13-23 OF AS13-82SHEETS

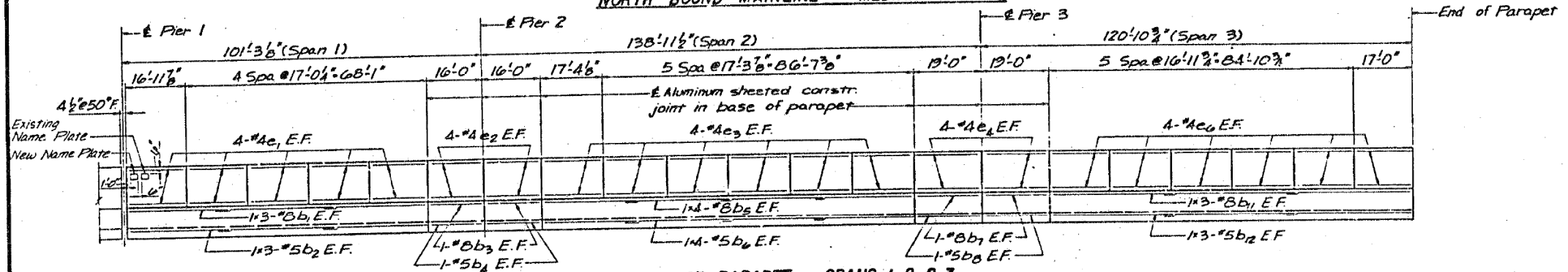
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1518
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

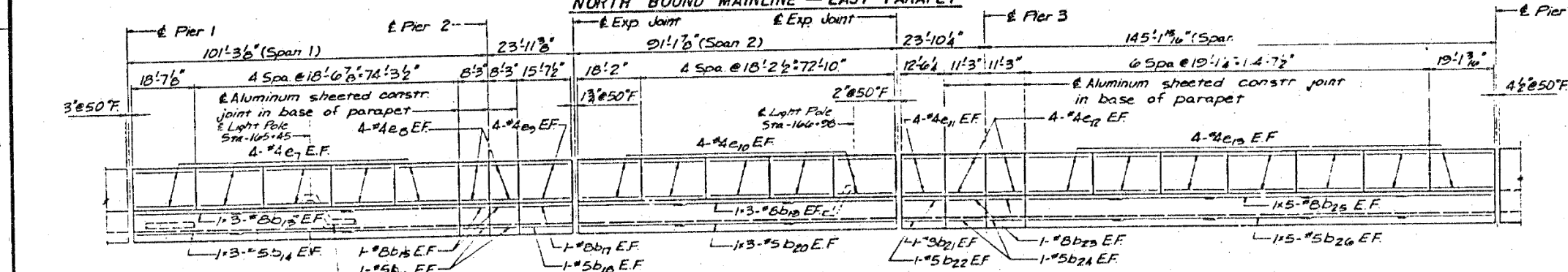
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	33	28
STA.	TO STA.			
FED. AID DIST. NO.	ILLINOIS	FED. AID PROJECT		



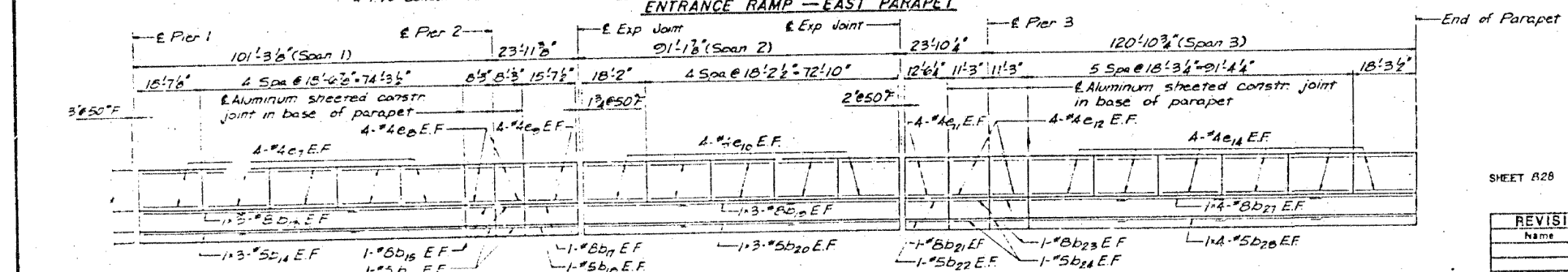
**ELEVATION OF PARAPET - SPANS 1, 2 & 3
NORTH BOUND MAINLINE - MEDIAN PARAPET**



**ELEVATION OF PARAPET - SPANS 1, 2 & 3
NORTH BOUND MAINLINE - EAST PARAPET**



**ELEVATION OF PARAPET - SPANS 1, 2 & 3
ENTRANCE RAMP - EAST PARAPET**



**ELEVATION OF PARAPET - SPANS 1, 2 & 3
ENTRANCE RAMP - WEST PARAPET**

SHEET B28 OF B33

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 DAN RYAN EXPRESSWAY
SECTION 1985-078R-COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
STRUCTURE 116-1110
ELEVATION OF PARAPET - SPANS 1, 2 & 3

Scale: NONE
Date: AUG. 1988
Drawn By: K.W.T.
Checked By: M.E.M.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

See sheet B29 for Notes.

FILE NAME: D:\V\AE\COM-NA-AW51\ae\comonline\local\AE\COM_D502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase\Structural\Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

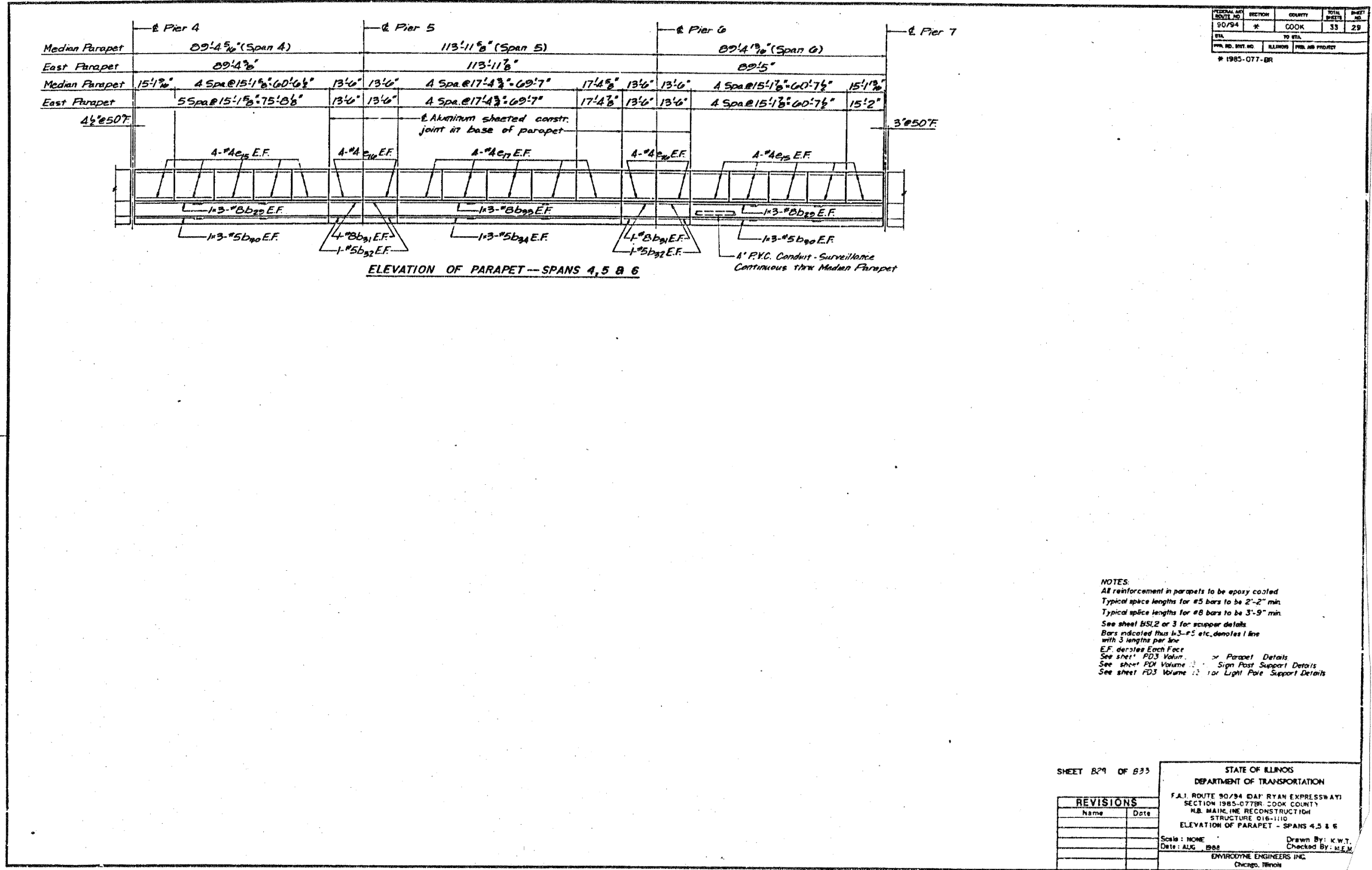
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-24 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1519
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY



NOTES:
 All reinforcement in parapets to be epoxy coated
 Typical splice lengths for #5 bars to be 2'-2" min.
 Typical splice lengths for #8 bars to be 3'-9" min.
 See sheet B5L2 or 3 for scupper details
 Bars indicated thus #3-#5 etc. denotes 1 line with 3 lengths per line
 E.F. denotes Each Face
 See sheet PD3 Volume 1 for Parapet Details
 See sheet PD1 Volume 1 for Sign Post Support Details
 See sheet PD3 Volume 1 for Light Pole Support Details

SHEET 29 OF 33

REVISIONS	
Name	Date

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 DAN RYAN EXPRESSWAY
 SECTION 1985-077BR COOK COUNTY
 R.B. MAINLINE RECONSTRUCTION
 STRUCTURE 016-1110
 ELEVATION OF PARAPET - SPANS 4, 5 & 6

Scale: NONE
 Date: AUG 88
 Drawn By: K.W.T.
 Checked By: M.E.M.
 ENVIRONMENTAL ENGINEERS INC.
 Chicago, Illinois

FILE NAME: D:\VAECOM\AA-AW51\arcocomonline.local\VAECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_CAD\008_Structural\Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110

SHEET NO.AS13-25 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1520
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

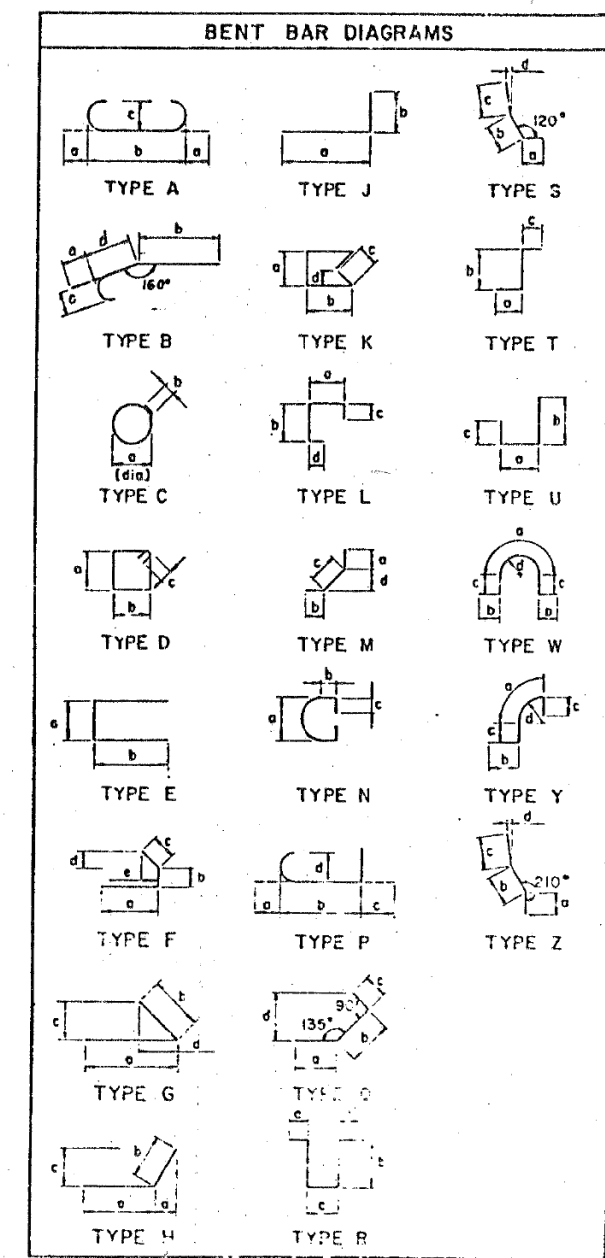
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	8	COOK	33	30
STA. TO STA.		FED. AID PROJECT		
P.L. PD. INT. NO.		ILLINOIS		

STRUCTURE	REINFORCEMENT BAR MARK	SCHEDULE NUMBER	SIZE	LENGTH	TYPE
SPANS 1-3	a10(E)	1850	#5	34'-6"	
SPANS 1-3	a11(E)	661	#5	30'-0"	
SPANS 1-3	a12(E)	926	#5	4'-0"	
SPANS 1-3	a13(E)	661	#5	39'-0"	
SPANS 1-3	b10(E)	142	#5	27'-0"	
SPANS 1-3	b11(E)	1716	#5	30'-0"	
SPANS 1-3	b12(E)	68	#6	35'-0"	
SPANS 1-3	b13(E)	272	#6	27'-9"	
SPANS 1-3	b14(E)	72	#5	35'-0"	
SPANS 1-3	b15(E)	72	#6	16'-0"	
SPANS 1-3	d(E)	743	#4	5'-10"	
SPANS 1-3	a1(E)	811	#5	4'-7"	
SPANS 1-3	d520(E)	7	#5	3'-6"	
SPANS 1-3	d521(E)	7	#4	3'-7"	
SPANS 1-3	s1(E)	80	#5	2'-0"	
SPANS 1-3	s2(E)	60	#5	5'-0"	

TYPE	MARK	a	b	c	d
⌋	x(E)	0'-8"	3'-0"	0'-5 1/4"	0'-6"
⌋	d1(E)	3'-10"	2'-0"	1'-11"	1'-2"
⌋	d521(E)	2'-2"	1'-5"		
⌋	d1(E)	0'-6"	1'-7"	2'-6"	0'-3 1/4"
⌋	d301(E)	0'-10"	0'-6"	1'-0"	
⌋	d302(E)	0'-10"	0'-9"	1'-0"	

STRUCTURE	REINFORCEMENT BAR MARK	SCHEDULE NUMBER	SIZE	LENGTH	TYPE
PARAPETS	b1(E)	12	#8	36'-10"	
PARAPETS	b2(E)	12	#5	25'-9"	
PARAPETS	b3(E)	8	#5	15'-9"	
PARAPETS	b4(E)	6	#5	15'-9"	
PARAPETS	b5(E)	16	#4	28'-3"	
PARAPETS	b6(E)	16	#5	27'-7"	
PARAPETS	b7(E)	8	#3	13'-9"	
PARAPETS	b8(E)	8	#5	18'-9"	
PARAPETS	a9(E)	10	#8	23'-2"	
PARAPETS	b10(E)	10	#5	26'-11"	
PARAPETS	b11(E)	6	#6	36'-5"	
PARAPETS	b12(E)	6	#5	35'-4"	
PARAPETS	b13(E)	12	#8	33'-5"	
PARAPETS	b14(E)	12	#5	32'-4"	
PARAPETS	b15(E)	8	#8	8'-0"	
PARAPETS	b16(E)	8	#5	8'-0"	
PARAPETS	b17(E)	4	#8	15'-4"	
PARAPETS	b18(E)	4	#5	15'-4"	
PARAPETS	b19(E)	12	#8	32'-9"	
PARAPETS	b20(E)	12	#5	31'-8"	
PARAPETS	b21(E)	4	#8	12'-2"	
PARAPETS	b22(E)	4	#5	12'-2"	
PARAPETS	b23(E)	8	#8	11'-0"	
PARAPETS	b24(E)	8	#5	11'-0"	
PARAPETS	b25(E)	10	#8	29'-9"	
PARAPETS	b26(E)	10	#5	28'-6"	
PARAPETS	b27(E)	8	#6	30'-2"	
PARAPETS	b28(E)	8	#5	29'-4"	
PARAPETS	b29(E)	24	#8	27'-8"	
PARAPETS	b30(E)	24	#5	26'-7"	
PARAPETS	b31(E)	16	#8	13'-3"	
PARAPETS	b32(E)	16	#5	13'-3"	
PARAPETS	b33(E)	12	#8	31'-5"	
PARAPETS	b34(E)	12	#5	30'-4"	
PARAPETS	e1(E)	40	#4	16'-8"	
PARAPETS	e2(E)	32	#4	15'-9"	
PARAPETS	e3(E)	96	#4	17'-0"	
PARAPETS	e4(E)	32	#4	18'-9"	
PARAPETS	e5(E)	56	#4	17'-8"	
PARAPETS	e6(E)	48	#4	16'-8"	
PARAPETS	e7(E)	80	#4	19'-3"	
PARAPETS	e8(E)	32	#4	8'-0"	
PARAPETS	e9(E)	16	#4	15'-4"	
PARAPETS	e10(E)	80	#4	17'-11"	
PARAPETS	e11(E)	16	#4	12'-2"	
PARAPETS	e12(E)	32	#4	11'-0"	
PARAPETS	e13(E)	56	#4	19'-9"	
PARAPETS	e14(E)	40	#4	17'-11"	
PARAPETS	e15(E)	160	#4	14'-10"	
PARAPETS	e16(E)	44	#4	13'-2"	
PARAPETS	e17(E)	96	#4	17'-11"	
PARAPETS	e18(E)	8	#4	8'-6"	
PARAPETS	e19(E)	32	#4	17'-0"	
PARAPETS	e20(E)	1	#5	9'-0"	
PARAPETS	d403(E)	12	#6	6'-11"	
PARAPETS	d404(E)	6	#6	5'-1"	

TYPE	MARK	a	b	c	d
⌋	d403(E)	2'-0"	1'-4"	2'-5"	
⌋	d404(E)	3'-1"	2'-0"		



Note: All Dimensions are in feet and inches.

SHEET 830 OF 835

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 DAN RYAN EXPRESSWAY
SECTION 885-0778-COOK COUNTY
NE MAINLINE RECONSTRUCTION
STRUCTURE 06-1110
DECK BAR SCHEDULE

Scale: NONE
Date: AUG 1988

Drawn By: CADIAN
Checked By: JLM

ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\V\AE\COM-NA-AWS1\arcocomonline-local\AE\COM_D502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Sig Structures\62A76_Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-26 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1521
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID INTERSTATE HIGHWAY

PLAN 1 INCH = 4 FEET
 PROFILE HORIZ. 1 INCH = 4 FEET
 PROFILE VERT. 1 INCH = 4 FEET
 CROSS SECTIONS 1 INCH = 4 FEET HORIZONTAL
 1 INCH = 4 FEET VERTICAL

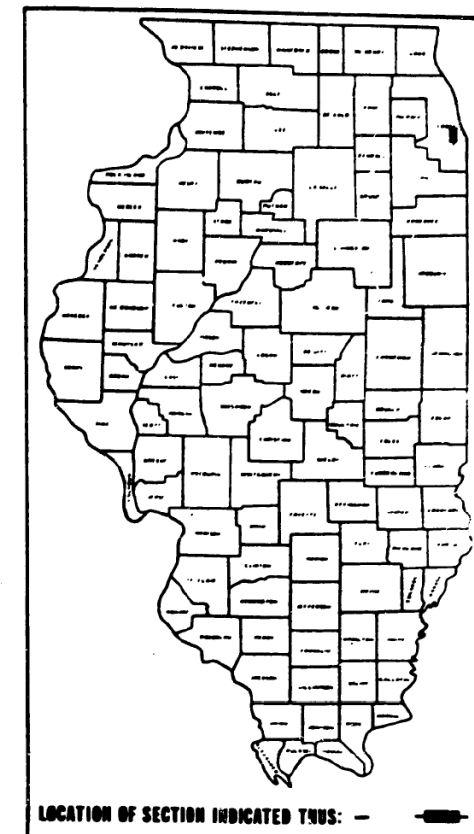
VOLUME NO. 4

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-082 R
 PROJECT

COOK COUNTY
 C-91-426-85

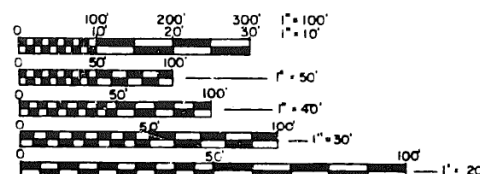
SOUTHBOUND MAINLINE RECONSTRUCTION
 31ST ST. TO MAXWELL ST.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	32	1
* 1985-082 R				
P-91-179-84				



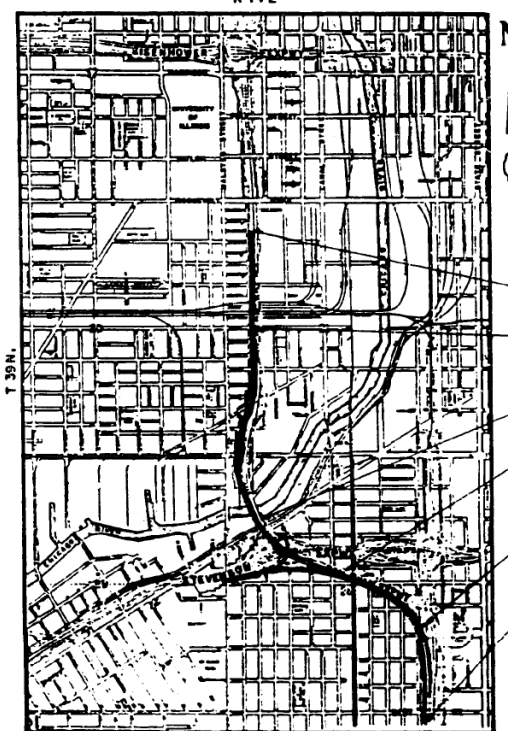
INDEX OF VOLUMES		NO. OF SHEETS
VOL. NO.	DESCRIPTION	
CIVIL		
1.	ROADWAY PLANS & GENERAL SHEETS	154
2.	MAINTENANCE OF TRAFFIC & ROADWAY CROSS SECTIONS	58
STRUCTURAL		
3.	STRUCTURE NO. 016-0137 (MAXWELL ST. TO 15TH ST.)	60
4.	STRUCTURE NO. 016-1110 (15TH ST. TO 16TH ST.)	32
5.	STRUCTURE NO. 016-1111 (16TH ST. TO 18TH ST.)	38
6.	STRUCTURE NO. 016-1112 (18TH ST. TO CERMAK RD.)	120
7.	STRUCTURE NO. 016-1113 (CERMAK RD. TO CHICAGO RIVER)	67
8.	STRUCTURE NO. 016-1114 (CHICAGO RIVER BRIDGE)	14
9.	STRUCTURE NO. 016-1115 (I-55 INTERCHANGE - MAINLINE)	89
10.	STRUCTURE NO. 016-1046 & 1059 (I-55 INTERCHANGE - RAMPS)	69
11.	STRUCTURE NO. 016-1116 (CANAL ST. TO STEWART AVE)	20
12.	STRUCTURE NO. 016-1067 & 1117 (STEWART AVE. TO 28TH PLACE)	109
13.	MISCELLANEOUS VIADUCT DETAILS AND SOUTH TERMINUS RETAINING WALLS	93
ELECTRICAL		
14.	ROADWAY LIGHTING & SURVEILLANCE	57
TOTAL		980

DESIGN DESIGNATION



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CONTRACT NO. **80064**



END STA. 183+87.100
 STA. EQ. 183+87.10 (BCK) = 183+13.36 (AMD)
 STA. EQ. 165+08.650 (BCK) = 164+94.890 (AMD)
 STA. EQ. 122+01.668 (BCK) = 123+47.028 (AMD)
 STA. EQ. 103+85.412 (BCK) = 103+85.570 (AMD)
 STA. EQ. 76+26.98 (BCK) = 76+23.48 (AMD)
 BEGIN STA. 56+10

NET LENGTH = 12,649 FT = 2.396 MILES
 GROSS LENGTH = 12,649 FT = 2.396 MILES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
SUBMITTED _____	DATE _____
REVISION _____	DATE _____
PASSED _____	DATE _____
APPROVED _____	DATE _____

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
DIVISION ENGINEER _____	DATE _____

COUNTY COOK SECTION 1985 - 082 P ROUTE 190/94 (DAN RYAN EXPRESSWAY)



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S.	CHECKED - MAL, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAL, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1522
CONTRACT NO. 62A76				

SHEET NO.AS13-27 OF AS13-82SHEETS

ILLINOIS FED. AID PROJECT

FILE NAME: D:\VAE\COM-NA-AW51...recomonline.local\VAE\COM_D502_NAV\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76_Sign_Structure\62A76-Span-55229-Extr\plans.dgn

CONSULTANT SECTION ENGINEER: K. HENNSTREET / J. ROS 312 705-4289

FOR INFORMATION ONLY

FEDERAL AID DISTRICT	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90 / 94	0	COOK	52	24
TO BE				
FED. AID PROJECT				
* 800 - 082 R				

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE WERE OBTAINED FROM EXISTING PLANS IN CONSTRUCTION WITH FIELD SURVEY DATA AND ARE SUBJECT TO MODERAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

CALCULATED WEIGHT OF STRUCTURAL STEEL = 11-183 -300,050 LBS. (TO BE ERECTED)
 CALCULATED WEIGHT OF STRUCTURAL STEEL REMOVAL = 99,150 LBS. (TO BE REMOVED)

THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESSES SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TENSILES CODE 2. THESE COMPONENTS INCLUDE TENSION FLANGES AND WEBS OF PLATE GIRDERS, WELD FLANGE BEAMS AND ALL SPLICE PLATE MATERIAL OF THE WELDED PLATE GIRDERS AND ARE DESIGNATED ON THE PLANS BY "N.T.R."

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53 GRADE 60.
 REINFORCEMENT BARS NOTED (R) SHALL BE EPOXY COATED.

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.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OR CROSS FRAMES OVER SUPPORTS.

PASTERINGS SHALL CONFORM TO THE REQUIREMENT OF AASHTO M164 TYPE I (ASTM A325). ALL PASTERINGS SHALL BE 7/8" DIAMETER UNLESS OTHERWISE NOTED WITH 15/16" DIAMETER BOLT HOLES. BOLT HOLES SHALL BE DRILLED 1-1/16" DIAMETER FOR 7/8" DIAMETER BOLTS AT CROSS FRAME CONNECTIONS. DIAPHRAGMS SHALL BE CONNECTED WITH 3/4" DIAMETER BOLTS AND BOLT HOLES SHALL BE PREDRILLED TO 15/16" DIAMETER. HANGERS SHALL BE USED FOR ALL CROSS FRAME AND DIAPHRAGM CONNECTIONS.

ALL HIGH STRENGTH BOLT CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 (M164) OR A490 (M253) BOLTS FOR SLIP-CRITICAL CONNECTIONS. EXCEPT TIGHTENING METHODS USING EITHER THE LOAD INDICATING WASHERS OR THE CALIBRATED WRENCH ARE NOT ALLOWED.

EXPANSION BOLTS SHALL CONSIST OF APPROVED EXPANSION ANCHORS, PROVIDING MINIMUM CERTIFIED PROOF LOAD = 4,000 LBS., AND 3/4" DIAMETER X 12" HOOKED BOLTS.

ROADWAY EXPANSION GUARDS SHALL BE ASSEMBLED IN THE PROPER POSITION WITH THE ENDS IN PLACE AND SHALL BE LEFT ASSEMBLED FOR SHOP INSPECTION.

THE ROADWAY EXPANSION PLATES SHALL BE FLAME CUT AS PROVIDED IN ARTICLE 507.04(1) OF THE STANDARD SPECIFICATIONS.

BEARING SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF 1/8" INCH. ADJUSTMENT SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHIMMING THE BEARINGS. TWO 1/8" ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS. (FOR TYPE I ELASTOMERIC BEARINGS, SHIMS OF THE DIMENSIONS OF TOP PLATE BE PROVIDED AND PLACED AS DETAILED).

ALL CONTACT SURFACES OF JOINTS FOR THE DIAPHRAGMS, CROSS FRAMES AND/OR LATERAL BRACINGS SHALL BE FREE OF PAINT OR LACQUER.

STUD SHEAR CONNECTORS
 STUD SHEAR CONNECTORS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M169 COLD DRAWN BARS, GRADES 1015, 1018 OR 1025 EITHER SEMI-OR FULLY-KILLED, GRANULAR OR SOLID FLUX FILLED BEADED STUDS AUTOMATICALLY END WELDED. STUD SHEAR CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 507.08(b).

NOTES FOR NEW CONCRETE PIERS
 A) THE CONTRACTOR SHALL SPACE REINFORCEMENT BARS IN PIER CAP TO MISS ANCHOR BOLTS.
 B) ALL EXPOSED EDGES TO HAVE STANDARD 3/4" INCH CHAMFERS, EXCEPT NOTED OTHERWISE.

NEW STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH ONE COAT EPOXY-EPILACTIC PRIMER IN ACCORDANCE WITH ARTICLE 509.04 SHOP PAINTING.

- FIELD CLEANING AND PAINTING**
- EXISTING STRUCTURAL STEEL SURFACES IN CONTACT WITH NEW STRUCTURAL STEEL SHALL BE FIELD CLEANED IN ACCORDANCE WITH ARTICLE 509.06(b) METHOD II. SURFACES MUST BE CLEANED TO RECEIVE NEW STRUCTURAL STEEL SHALL BE GIVEN ONE FIELD COAT ALUMINUM EPOXY MASTIC PAINT AFTER ERECTION OF NEW STRUCTURAL STEEL. CONTACT SURFACES SHALL NOT BE PAINTED.
 - EXISTING TOP FLANGE SURFACES IN CONTACT WITH NEW CONCRETE SHALL BE CLEANED IN ACCORDANCE WITH ARTICLE 509.06(b), METHOD III.
 - SURFACES TO RECEIVE STUD SHEAR CONNECTORS SHALL BE CLEANED IN ACCORDANCE WITH ARTICLE 509.06(b), METHOD II AND ARTICLE 507.08(b)(2).
 - NEW STRUCTURAL STEEL SHALL BE FIELD SPOT PAINTED CONSISTING OF ONE COAT ALUMINUM EPOXY MASTIC PAINT APPLIED ON HEADS OF FIELD BOLTS, FIELD WELDS, AND ALL AREAS WHERE PAINT HAS BEEN REMOVED OR DAMAGED.

SHEET No.	FIGURE	TITLE SHEET
1	B1	GENERAL NOTES, INDEX & BILL OF MATERIAL
2	B2	GENERAL PLAN
3	B3	PIER REMOVAL & PIER 2 DETAILS
4	B4	PIER REPLACEMENT DETAILS
5-8A	B5-B8A	SUBSTRUCTURE BAR SCHEDULE
7	B7	FRAMING PLANS
8-9	B9-B9	STRUCTURE TABLE
10	B10	STRUCTURAL STEEL DETAILS
11-16	B11-B16	TRANSVERSE DECK JOINT ELEVATIONS
17	B17	TOP OF SLAB ELEVATIONS
18-21	B18-B21	DECK PLAN, CROSS SECTION & PARAPET DETAILS
22-28	B22-B28	DECK BAR SCHEDULE
29	B29	SUBSTRUCTURE WIDENING, REHABILITATION & REPLACEMENT
30-32	B30-B32	

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
STRUCTURE EXCAVATION	CU. YD.	21
CONCRETE REMOVAL	CU. YD.	273
CONCRETE REMOVAL (SPECIAL)	CU. YD.	9
REMOVAL OF EXISTING CONCRETE DECK	L. SUM	0.06
EXPANSION BOLTS 3/4 INCH DIA.	EACH	20
PROTECTIVE SHIELD	SQ. YD.	5930
CLASS "X" CONCRETE	CU. YD.	289
CLASS "X" CONCRETE SUPERSTRUCTURE	CU. YD.	1711
PREFORMED JOINT SEAL 2 1/2 INCH	LIN. FT.	25
NEOPRENE EXPANSION JOINT 2 INCH	LIN. FT.	25
NEOPRENE EXPANSION JOINT 4 INCH	LIN. FT.	25
PROTECTIVE COAT	SQ. YD.	1050
EPOXY CRACK SEALING	LIN. FT.	172
FURNED CONCRETE REPAIR	SQ. FT.	444
PROTECTIVE SURFACE TREATMENT	SQ. FT.	29,180
MECHANICAL SPLICES	EACH	145
REINFORCEMENT BARS (EPOXY COATED)	POUND	512,480
ERECTING STRUCTURAL STEEL	L. SUM	0.06
STUD SHEAR CONNECTORS	EACH	29,800
STRUCTURAL STEEL REPAIR	POUND	850
STRUCTURAL STEEL REMOVAL	L. SUM	0.12
RELOCATING EXISTING STEEL STRINGERS	POUND	134,700
SKIMMED NEOPRENE EXPANSION JT. TREATMENT	LIN. FT.	180
INSTALLING BRIDGE SCUFFERS	EACH	19
DOWNSPOT DRAINAGE SYSTEM	LIN. FT.	1270
NAME PLATES	EACH	1
TEMPORARY SUPPORT SYSTEM (HEIGHT > 30 FT.)	EACH	2

STATION
 REBUILT 198 BY
 STATE OF ILLINOIS
 F.A. PROJ. IDR-94-3(26?)
 LOADING MS20
 STR. NO. 016-1110

NAME PLATE
 (See Std. 2113)

LOAD FOR TEMPORARY SUPPORT

BEARING LINE	D.L. REACTION	L.L. REACTION
1S (Mainline)	35 ^K	
1N (Mainline)	77 ^K	
1S (Ramp D)	18 ^K	
1N (Ramp D)	37 ^K	
4S	292 ^K	
4N	103 ^K	

NOTE: FINGER JOINTS INCLUDED IN "ERECTING STRUCTURAL STEEL"

AS REVISED

SHEET 82 OF 832

REVISIONS

Name	Date
(1) Revision	12/9/87

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 DAN RYAN EXPRESWAY
 SECTION 0805 - 0828 COOK COUNTY
 STRUCTURE 016 - 1110
 S.B. MAINLINE RECONSTRUCTION
 GENERAL NOTES, INDEX & BILL OF MATERIAL

Scale: _____
 Date: _____
 Drawn By: _____
 Checked By: _____
 ENGINEERING SERVICES INC.
 Chicago, Illinois

Rev. 12-9-87
 Revisions - Dec. 7, 1987

FILE NAME: D:\VAECOM\NA-AW51\acomonline\local\AECOM_ID502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110

SHEET NO. AS13-28 OF AS13-82 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1523
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

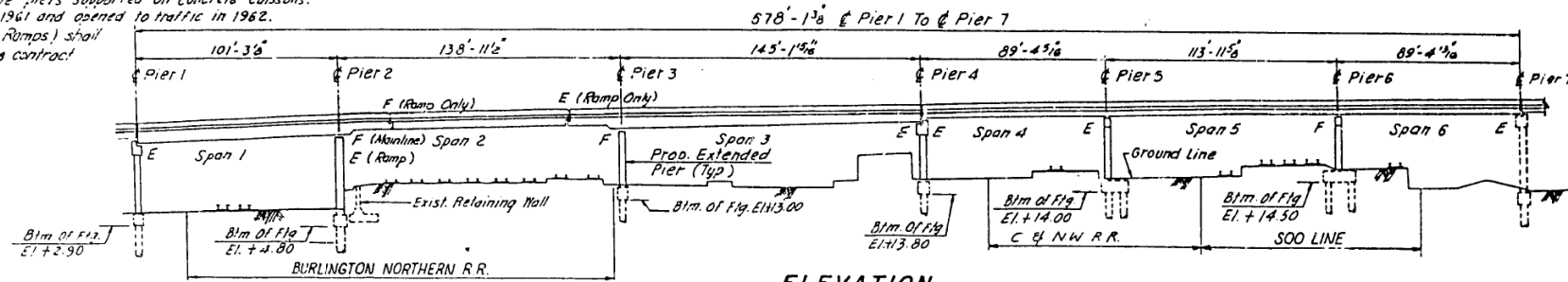
FEDERAL AID DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0	COOK	32	3
STA. TO STA.				
FED. AID PROJECT NO.				

BENCH MARK:

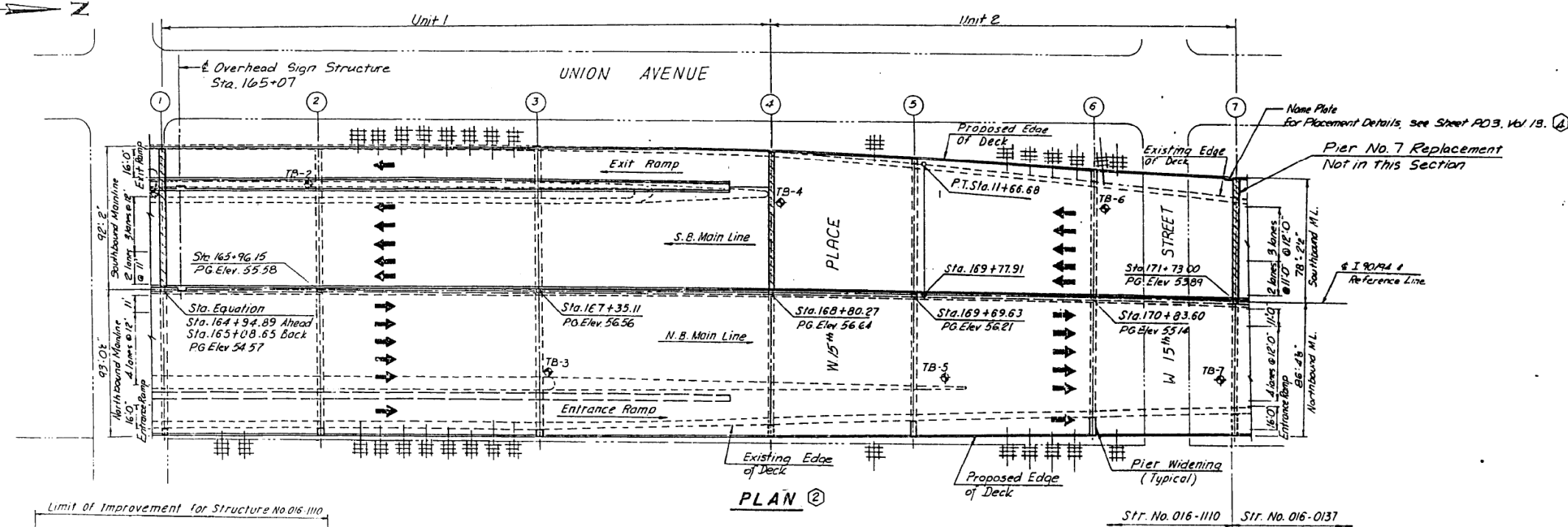
T.B.M. #49 North NE flange bolt on hydrant on NW Corner of 21st St. and Emerald St. Elev. 13.63

EXISTING STRUCTURE

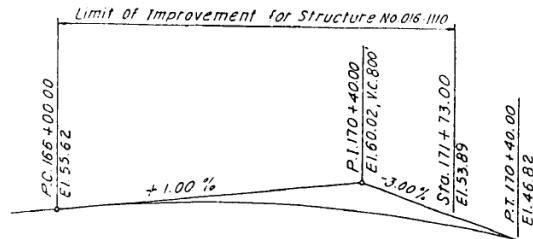
Structure No. 016-1110 is a part of Dan Ryan Expressway Viaduct. The superstructure is concrete deck supported on steel plate girders. The main structure consists of two units having three continuous spans each. The entrance and exit ramp structures have simple spans at each end with centerline extending into center span to support center span on steel bearings. The substructure consists of multiple column concrete piers supported on concrete caissons. The structure was built in 1961 and opened to traffic in 1962. Entire SB deck (Mainline & Ramps) shall be removed as part of this contract unless noted otherwise.



ELEVATION



PLAN ②



PROPOSED PROFILE GRADE
DAN RYAN EXPRESSWAY (1-90/94)

Design Stresses

New Construction

$f_c = 3500$ PSI
 $f_c = 1400$ PSI
 $f_y = 60,000$ PSI (Reinforcement)
 $f_s = 20,000$ PSI Struct. Steel
 Working Stress Design Method
 Allowable Bearing Pressure on Rock = 60 Tons/Sq Ft.

Loading HS20-44 and Alt.

Design Specifications: AASHTO (1983) and Interims (1984 & 1985)

LEGEND ②

- ⊕ Indicates Existing Soil Boring
- ▭ New Pier Widening Completed in Advance Work Contract
- Indicates Pier Number
- ▨ Pier Replacement or Widening
- ▧ Grade Beam & Caisson Completed in Advance Work Contract

Existing Construction

$f_c = 3500$
 $f_c = 1400$ W/O Earth Pressure
 $f_c = 1,000$ PSI W/Earth Pressure
 $V = 75$ PSI Max. Shear in Footings
 $f_s = 18,000$ PSI Struct. Stl.
 Bedrock Bearing for Drilled Sub-Piers = 60 Tons/Sq. Ft.

Str. No. 016-1110



LOCATION PLAN



APPROVED
FOR STRUCTURAL ACCURACY ONLY

James J. ...

SHEET 83 OF 832

REVISIONS	
Name	Date
② Revision	2-5-88
③ Revision	4-22-88

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-082-R-COOK COUNTY
 S.B. MAINLINE RECONSTRUCTION
 STRUCTURE NO. 016-1110
 GENERAL PLAN

Scale: NONE
 Date: AUG. 14, 1987
 Drawn By: M.M.S.
 Checked By: M.E.L.

ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

REVISED 12-9-87



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110

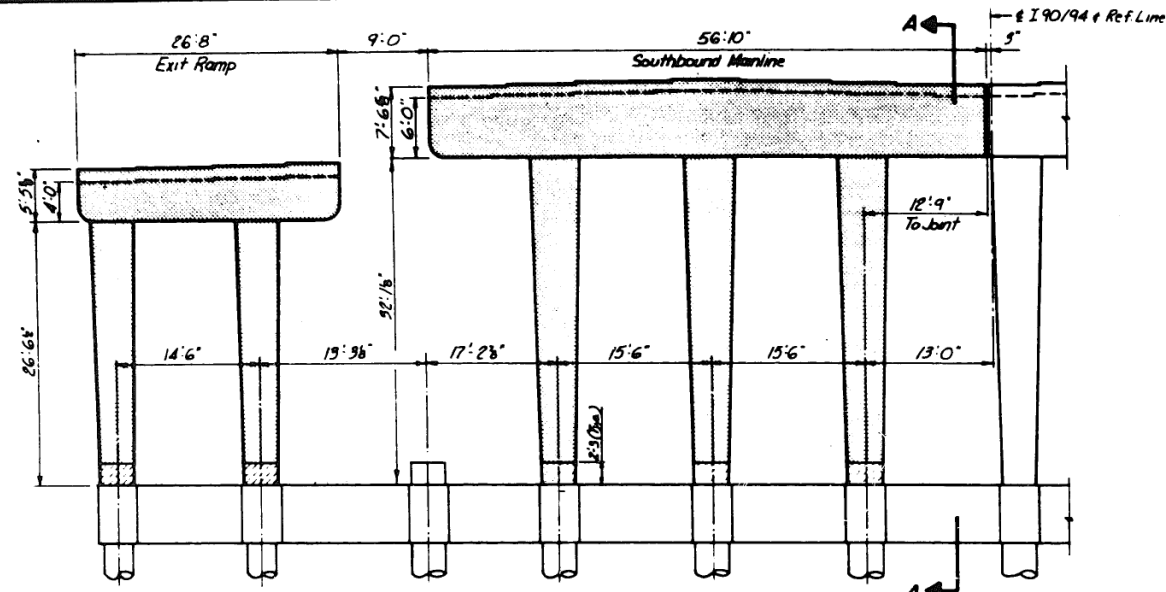
SHEET NO. AS13-29 OF AS13-82 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1524
CONTRACT NO. 62A76				

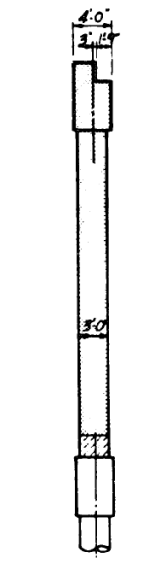
ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

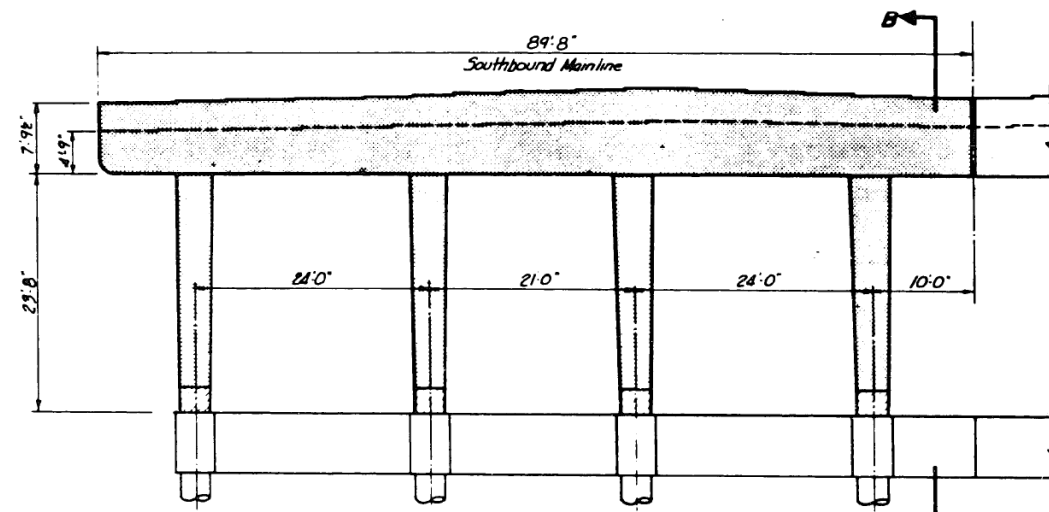
FEDERAL AID DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/84	4*	COOK	32	4
STA.	TO STA.			
FED. RD. DIST. NO.		ILLINOIS	FED. AID PROJECT	
*1985-082R				



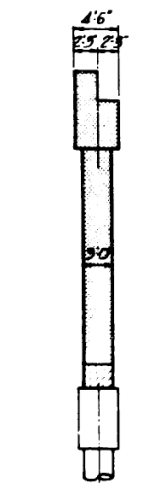
PIER 1



SECTION A-A



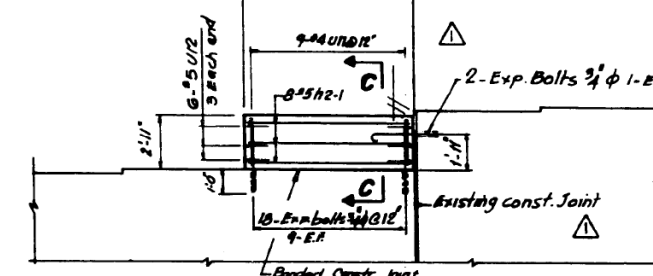
PIER 4



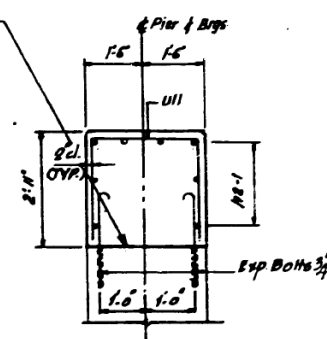
SECTION B-B

girder Spacing	5'-5"	6'-9 1/2"	8'-1"	8'-4"	
girder Seal Stop Spacing	7'-4"	6'-2"	8'-6"	6'-2"	8'-4"
girder Seal Elevation	44.29	44.39	47.30	47.41	47.67

TOP PLAN



ELEVATION PIER NO. 2



SECTION C-C

Note:
See notes on
Sht. B5.

BILL OF MATERIALS

SYMBOL	ITEM	UNIT	QUANTITY
	Concrete Removal	Cuyd	272.7
	Conc. Removal (special)	Cuyd	7.2

BILL OF MATERIAL

ITEM	UNIT	PIER NO. 2
Reinforcement bars (Epoxy)	Lbs.	160
Class 'x' Concrete	Cu. Yd.	2.8
Expansion Bolts 3/4" phi	Each	20

SHEET B4 OF B32
Revisions - Dec 7, 87

REVISIONS

Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
S.A.L. ROUTE 90/84 (DAN RYAN EXPRESSWAY)
SECTION 1985-082R COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
PIER NO. 2 & PIER REMOVAL
Scale: NONE
Date: AUG. 14, 1987
Drawn By: S.M.S.
Checked By: M.E.L.
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\V\AECOM\AA\AW51\aecononline\local\AECOM_ID502_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_CAD\008_Structural\Sign_Structures\62A76-Span-55229-Exftplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S.	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

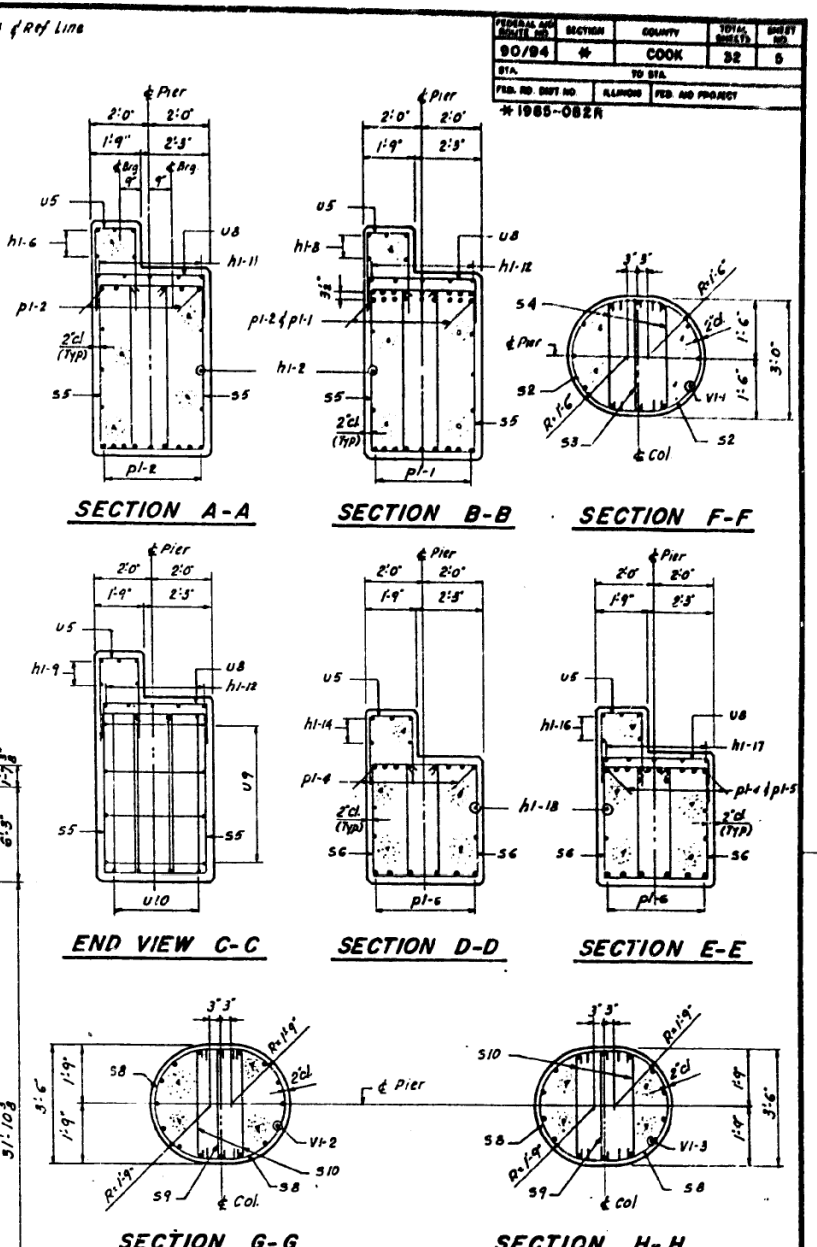
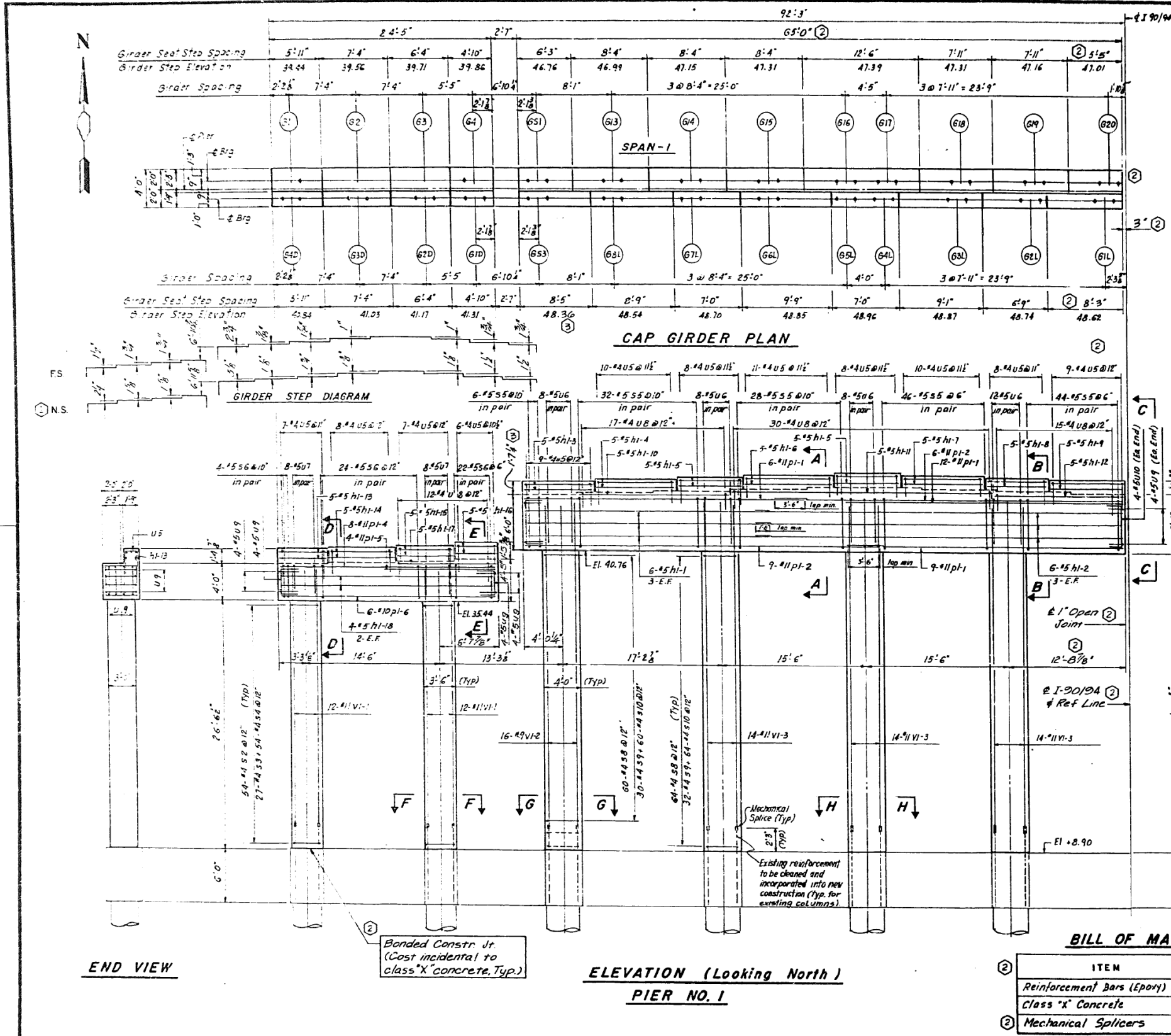
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO. AS13-30 OF AS13-82 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/84/290	2015-019R	COOK	2155	1525
CONTRACT NO. 62A76				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



- Notes:**
- All edges shall have std. 1/2" chamfer except as noted
 - Four steps monolithically with cap
 - For reinforcement bar schedules see sheet no. B7
 - For concrete removal see sheet no. B4
 - All expansion bolts shall be placed in sound concrete
 - Space reinforcement in cap to mass anchor bolts

BILL OF MATERIAL

ITEM	UNIT	PIER NO. 1
Reinforcement Bars (Epoxy)	Lbs.	32290
Class 'X' Concrete	Cu. Yd.	153.1
Mechanical Splicers	Each	82

SHEET B5 OF B32

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082R COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
PIER NO. 1

Scale: NONE
Date: AUG. 14, 1987

Drawn By: J.G.
Checked By: M.E.M.

ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

REVISIONS	
Name	Date
② Revision	2-5-88
③ Revision	3-11-88

FILE NAME: D:\V\AE\COM-NA-AWS1\aecononline\local\AE\COM_D502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structure\62A76-Span-55229-Extrplans.dgn



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PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

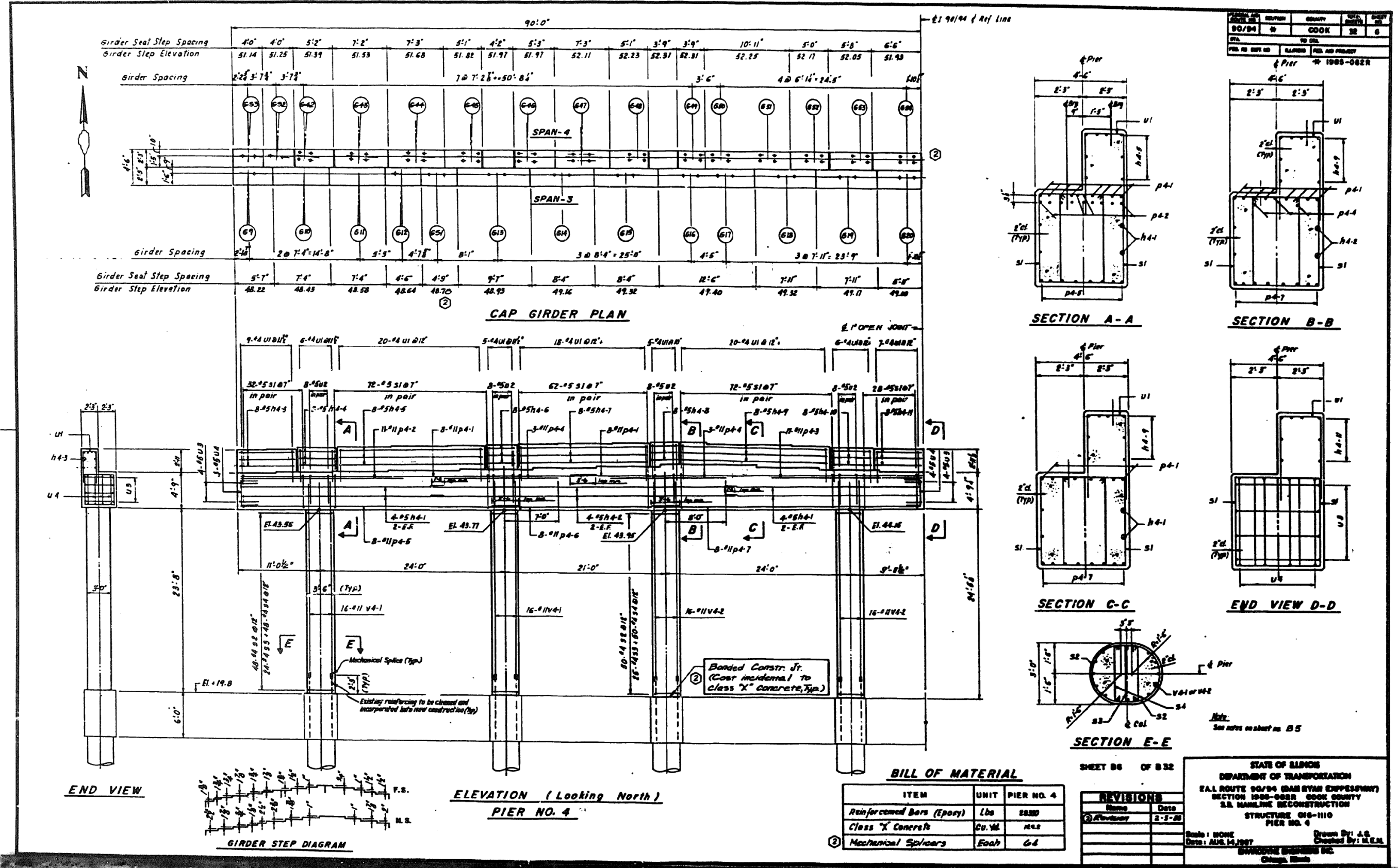
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1526

CONTRACT NO. 62A76

SHEET NO. AS13-31 OF AS13-82 SHEETS

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



FILE NAME: D:\V\AE\COM-NA-AWS1\aecononline\local\AE\COM_DS02_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Span_Structures\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS

STRUCTURE NO. 016-1110

SHEET NO. AS13-32 OF AS13-82 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1527

CONTRACT NO. 62A76

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

REINFORCEMENT BAR SCHEDULE					REINFORCEMENT BAR SCHEDULE					BENT BAR DETAILS				FEDERAL AID PROJECT NO.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
STRUCTURE	MARK	NUMBER	SIZE	LENGTH	TYPE	STRUCTURE	MARK	NUMBER	SIZE	LENGTH	TYPE	TYPE	MARK	a	b	c	d	90/94	#	COOK	32	7	
PIER No. 2	h2-1(E)	8	#5	8'-1"		PIER No. 2	h2-1(E)	8	#5	8'-1"		□	s1(E)	4'-5"	3'-2"	0'-5 1/2"							
PIER No. 2	u11(E)	9	#4	8'-0"		PIER No. 2	u11(E)	9	#4	8'-0"		□	s5(E)	5'-8"	2'-5"	0'-5 1/2"							
PIER No. 2	u12(E)	6	#5	6'-7"								□	s6(E)	3'-8"	2'-5"	0'-5 1/2"							
PIER No. 6	h6-1(E)	6	#5	12'-10"								□	u1(E)	1'-11"	4'-6"								
PIER No. 6	u13(E)	14	#4	5'-2"								□	u2(E)	3'-2"	4'-5"								
PIER No. 6	u14(E)	2	#5	5'-7"								□	u3(E)	4'-1"	2'-0"								
												□	u4(E)	4'-4"	2'-0"								
												□	u5(E)	1'-5"	2'-9"								
												□	u6(E)	2'-5"	5'-9"								
												□	u7(E)	2'-5"	3'-8"								
												□	u8(E)	3'-8"	1'-6"								
												□	u9(E)	3'-7"	2'-0"								
												□	u10(E)	5'-7"	2'-0"								
												□	s2(E)	2'-8"	0'-8"	0'-6"							
												□	s6(E)	3'-2"	0'-3"	0'-6"							
												□	s3(E)	0'-6"	2'-9"	0'-5"	0'-3 1/2"						
												□	s4(E)	0'-6"	2'-7"	0'-6"	0'-3 1/2"						
												□	s9(E)	0'-6"	3'-2"	0'-5"	0'-3 1/2"						
												□	s10(E)	0'-6"	3'-1"	0'-6"	0'-3 1/2"						
												□	u11(E)	2'-8"	2'-8"								
												□	u12(E)	2'-7"	2'-0"								
												□	u13(E)	2'-8"	1'-3"								
												□	u14(E)	2'-7"	1'-6"								

TYPE K

TYPE A

TYPE L

TYPE B

TYPE M

TYPE C

TYPE N

TYPE D

TYPE P

TYPE E

TYPE Q

TYPE F

TYPE R

TYPE G

TYPE S

TYPE H

TYPE J

FILE NAME: D:\V\AECOM-NA-AW51\recomonline\local\AECOM_D502_NA\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structure\62A76_Sign_Structure\62A76-Span-55229-Extr\plans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1529
CONTRACT NO. 62A76				
		ILLINOIS	FED. AID PROJECT	

SHEET B7 OF B32

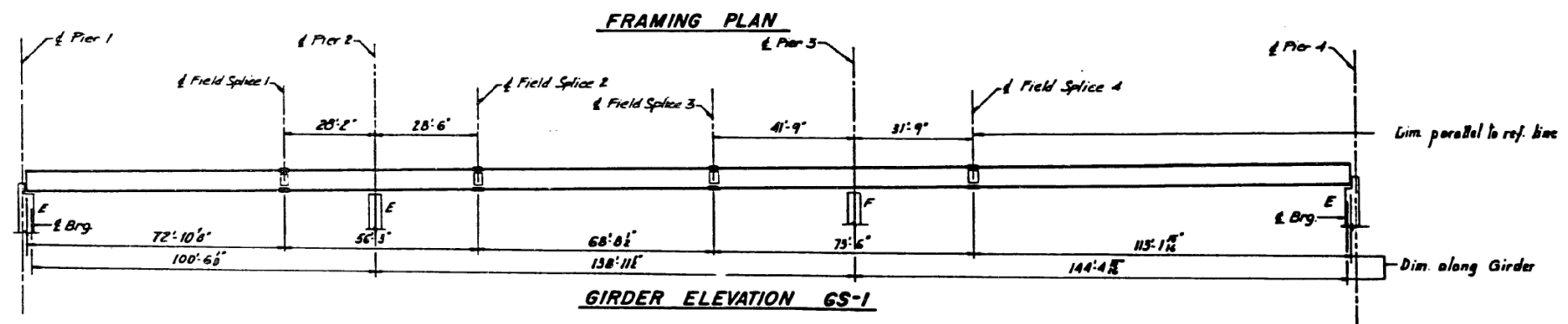
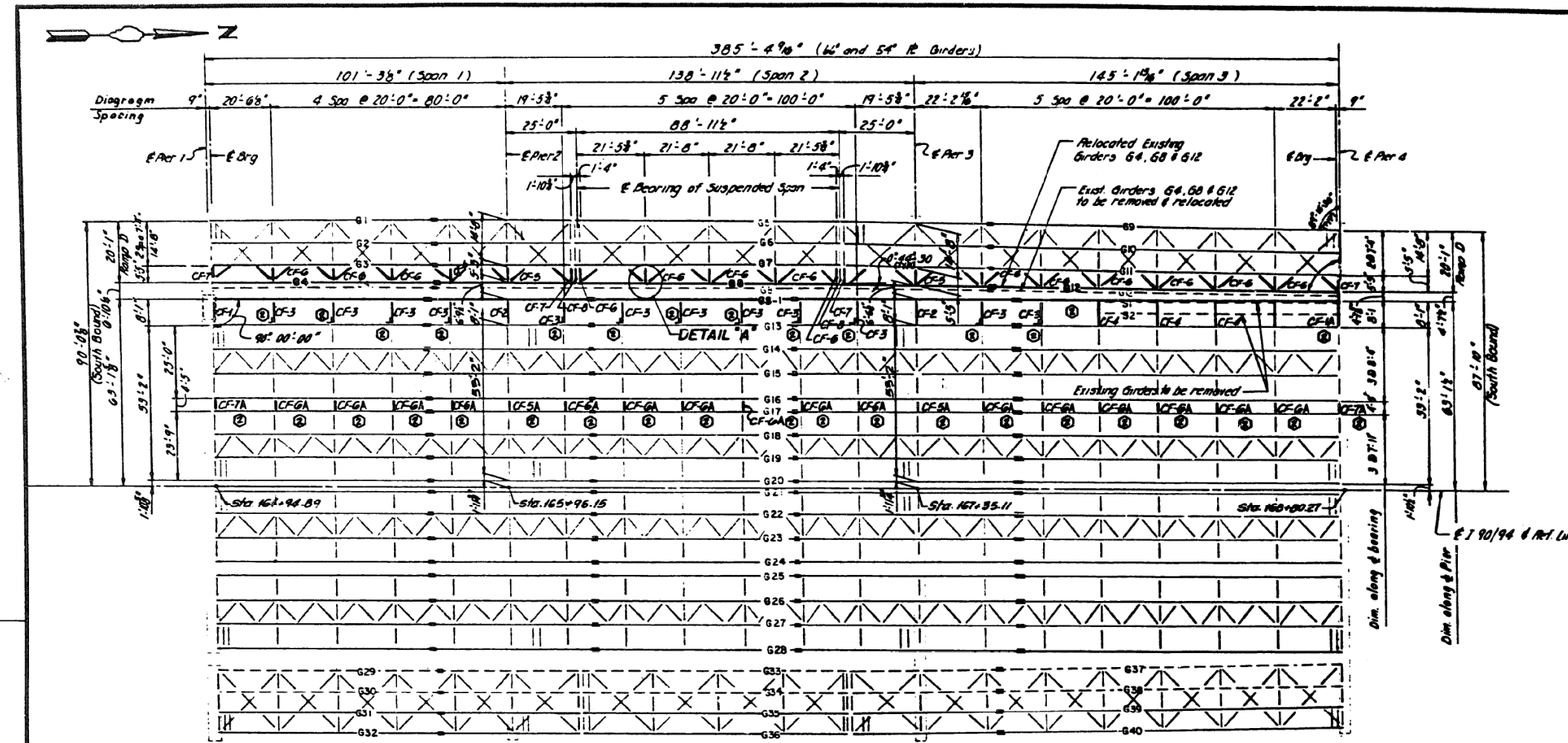
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-062R - COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
BAR LIST

REVISIONS	
Name	Date
② Revision	2-5-88
③ Revision	3-11-88

Scale: NONE
Date: AUG. 14, 1987
Drawn By: J.G.
Checked By: M.S.M.
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

FOR INFORMATION ONLY



Note:
For Detail 'A' see sheet B14

DATE	REVISED	APPROVED	SCALE	SHEET
9/9/94	*	COOK	3E	8
F.I.L.		TO C.D.		
F.I.L. NO. 007-00		ALIGNED	F.I.L. NO. PROJECT	
* 1988-082R				

SHEET 88 OF 832

REVISIONS	
Name	Date
01/Rev. 12-8-08	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RIVER EXPRESSWAY)
SECTION 1908-082R COOK COUNTY
S.S. MARSH RECONSTRUCTION
STRUCTURE 016-1110
FRAMING PLAN SPANS 1 TO 3
Scale: NONE
Date: AUG. 14, 1987
Drawn By: J.S.
Checked By: M.S.M.
ENGINEERING GROUP, INC.
Chicago, Illinois

FILE NAME: D:\V\AE\COM-NA-AW51\ae\comonline\local\AE\COM_ID502_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structure\62A76-Sign_Structure\62A76-Span-55229-Extr\plans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

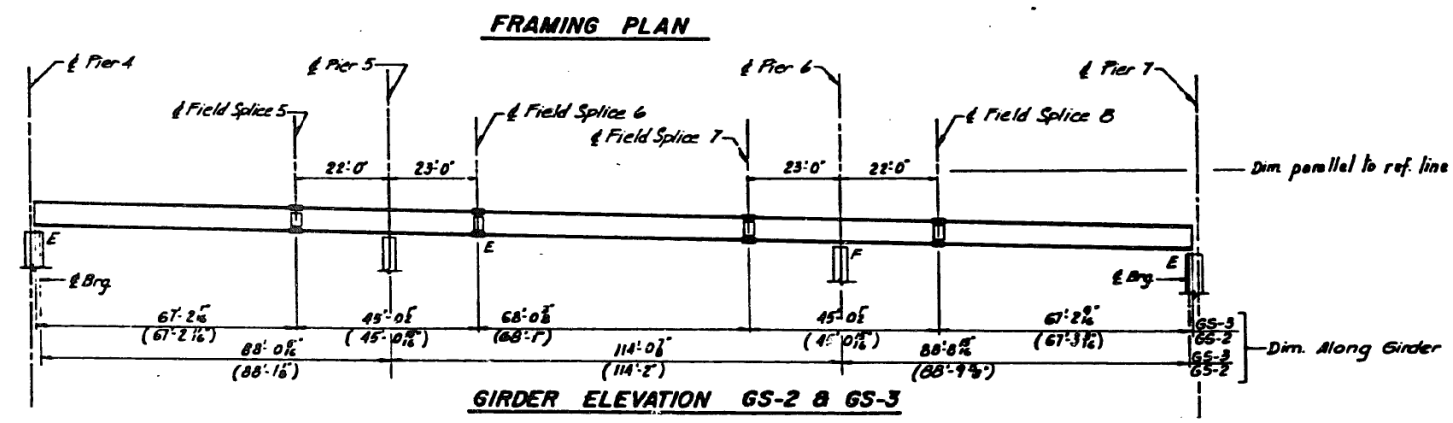
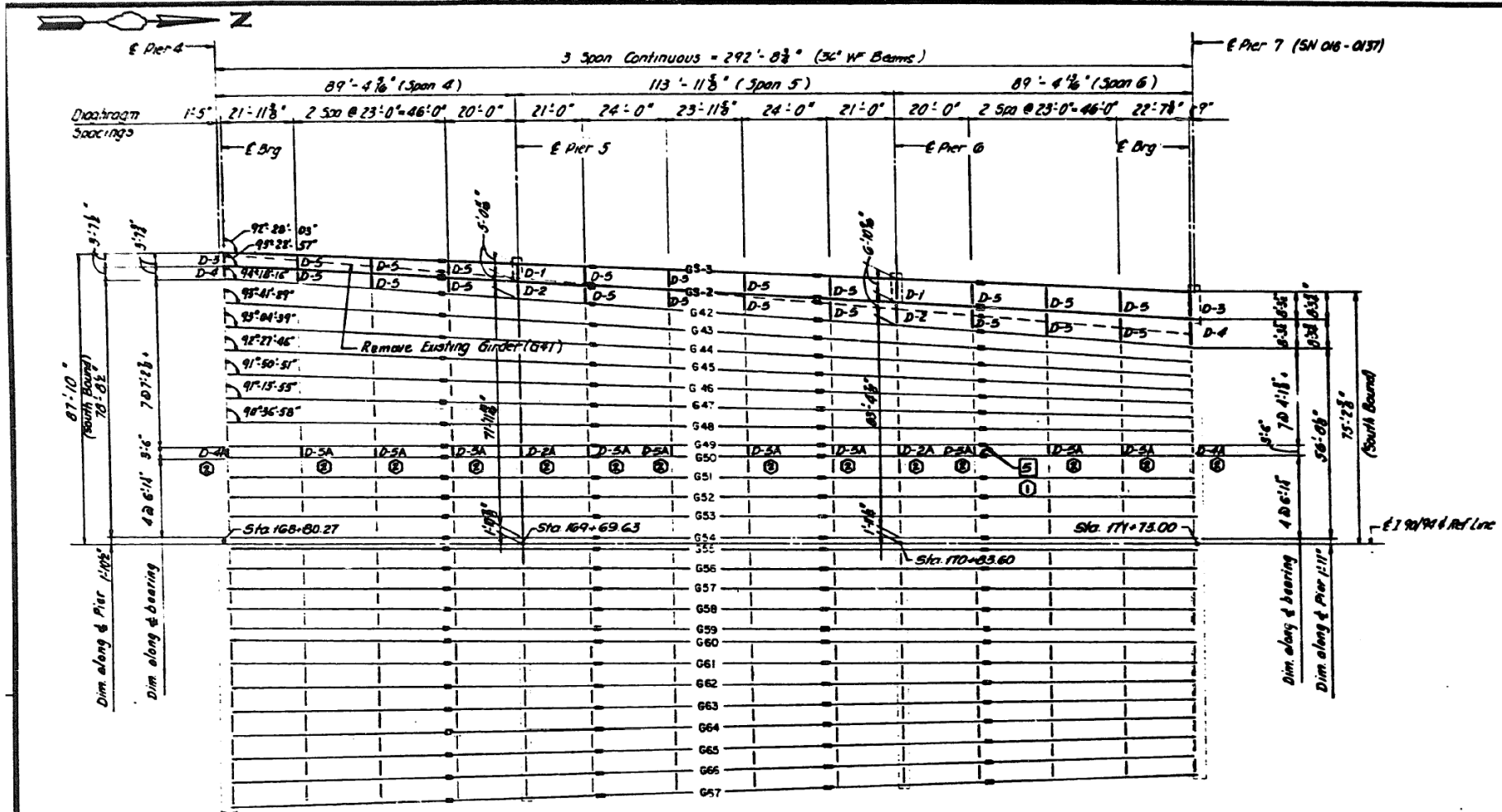
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-35 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1530
			CONTRACT NO. 62A76	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

DATE	BY	CHKD	APPD
90/94	4	COOK	22
FOR THE STATE OF ILLINOIS		FOR THE PROJECT	
1990-0828			



LEGEND
 ① ② Replace Splice Plates (Type S), Top and Bottom
 See Sheet SRE, Vol. 13 for Detail

AS REVISED

SHEET 84 OF 832

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN FARM EXPRESSWAY)
 SECTION 1988-0828 COOK COUNTY
 S.S. MAPLE RECONSTRUCTION
 STRUCTURE 08-110
 FRAMING PLAN SPANS 4 TO 6

Scale: NONE
 Date: AUG. 14, 1997
 Checked By: M.E.W.

REVISIONS	
No.	Date
01	Jan 20, 99
02	1-2-99

FILE NAME: D:\V\AECOM-NA-AW51_aecomonline\local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structure\62A76-Span-5S229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

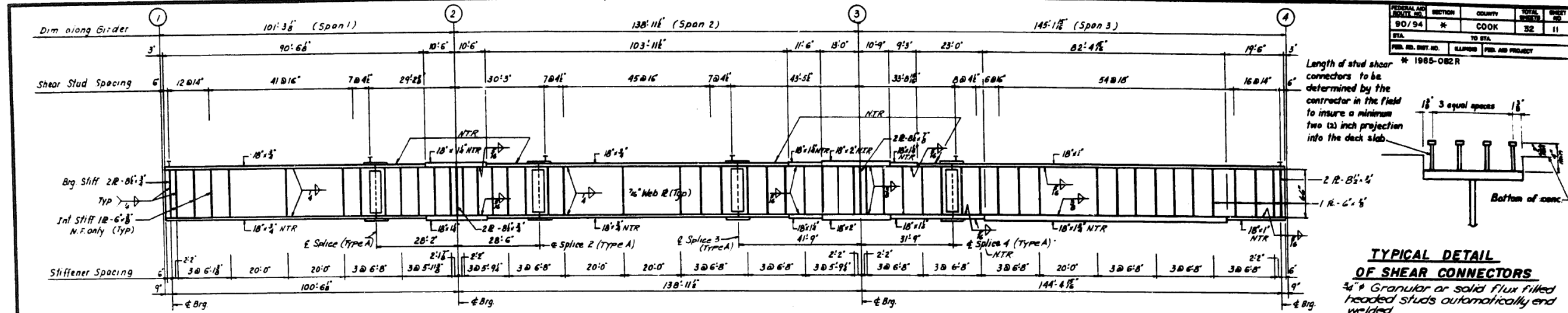
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110

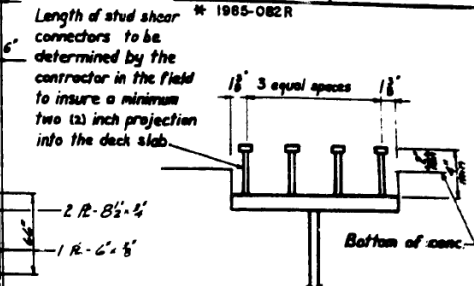
SHEET NO. AS13-36 OF AS13-82 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1531
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

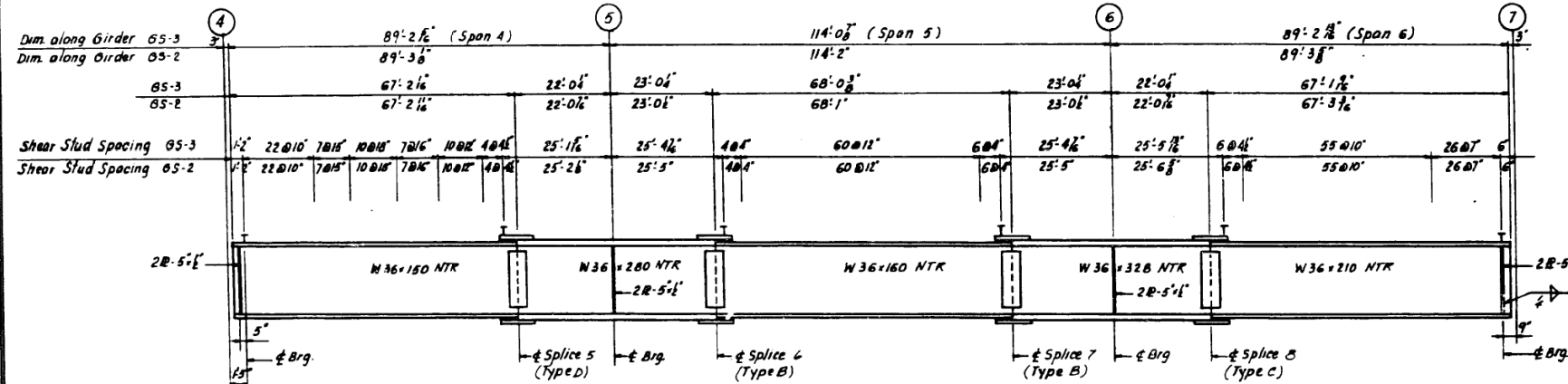


GIRDER GS-1 ELEVATION - SPAN 1 TO 3

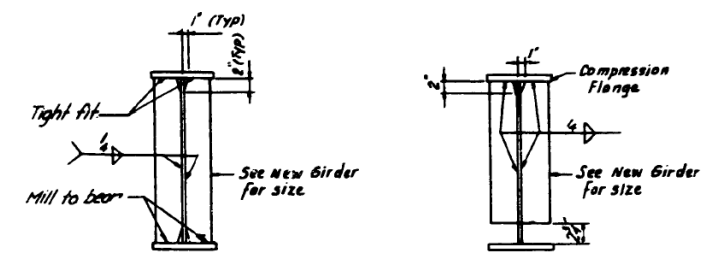


TYPICAL DETAIL OF SHEAR CONNECTORS
 3/4" Granular or solid flux filled headed studs automatically end welded.

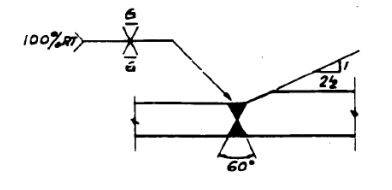
- Note:
1. Shear Connector locations at flange splice plates to be adjusted by installer to miss splice bolts
 2. All Dimensions along Girder in horizontal Plane
 3. N.T.R - Notch Toughness Requirement.



GIRDER GS-2 & GS-3 ELEVATION - SPAN 4 TO 6

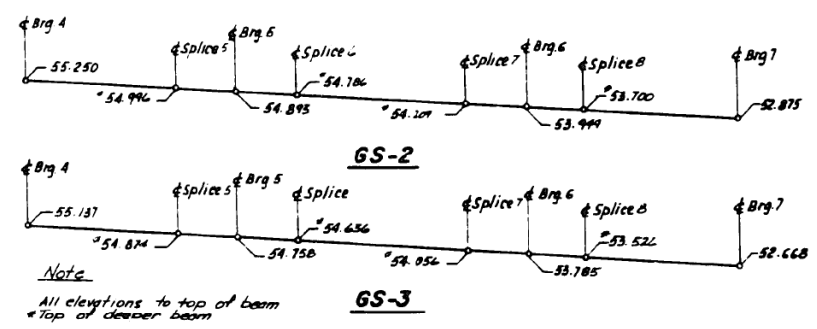


BEARING STIFFENER DET. INTERMEDIATE STIFF. DET.

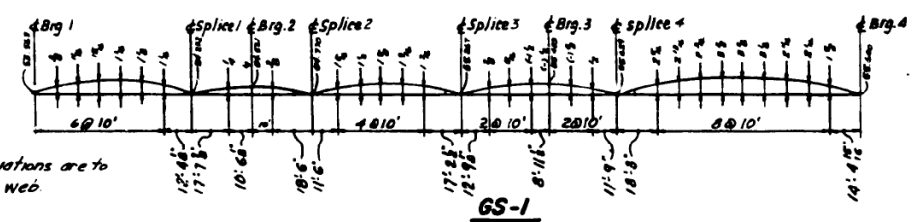


TYPICAL FLANGE SPLICE DETAIL

All materials shown on this sheet, except for stud shear connectors, furnished under a separate Steel Fabrication Contract (Section 1965-081F), unless noted otherwise.



BLOCKING DIAGRAM



CAMBER DIAGRAM

SHEET B11 OF B32

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1965-082R COOK COUNTY
 S.B. MAINLINE RECONSTRUCTION
 STRUCTURE 08-1110
 NEW GIRDERS GS-1 TO GS-3

Scale: NONE
 Date: AUG. 14, 1987
 Drawn By: J.G.
 Checked By: M.E.M.
 ENVIRONMENTAL ENGINEERS INC.
 Chicago, Illinois

REVISIONS	
Name	Date

FILE NAME: D:\V\AE\COM-NA-AW51...recomonline.local\AE\COM_D502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Span_Structures\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110

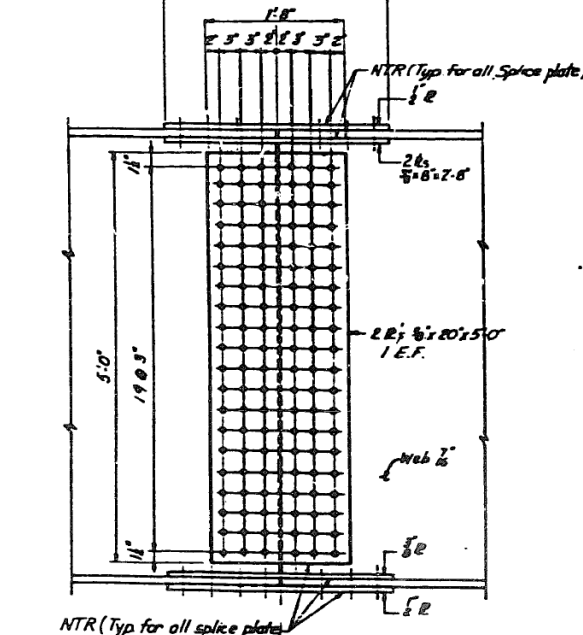
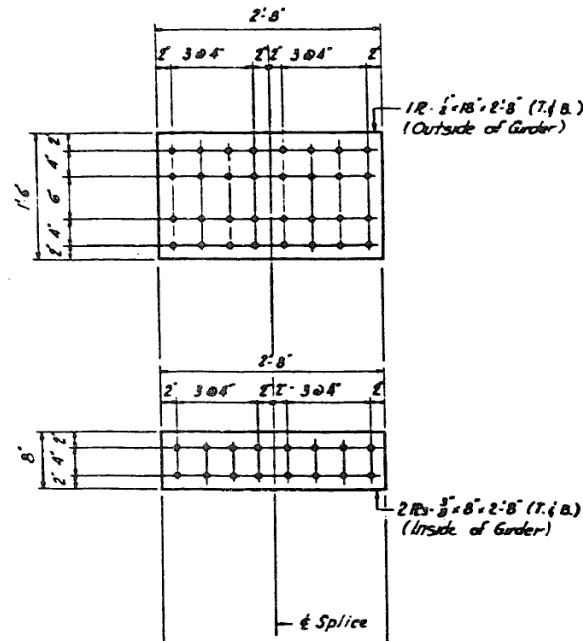
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1533
CONTRACT NO. 62A76				

SHEET NO.AS13-38 OF AS13-82SHEETS

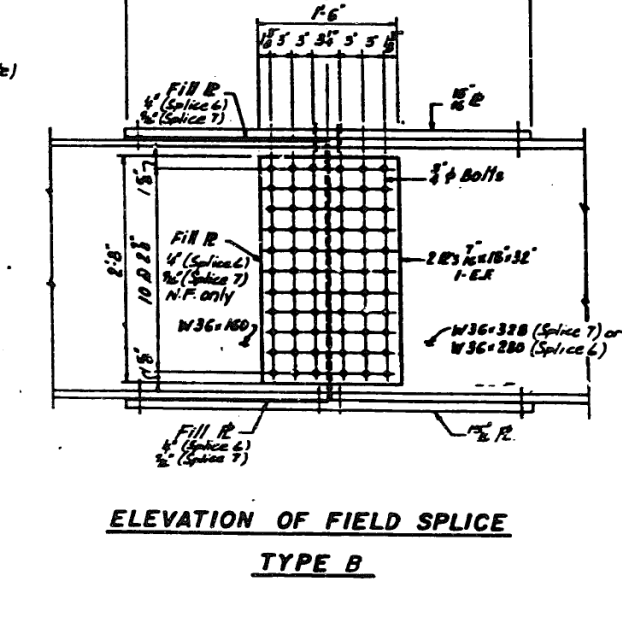
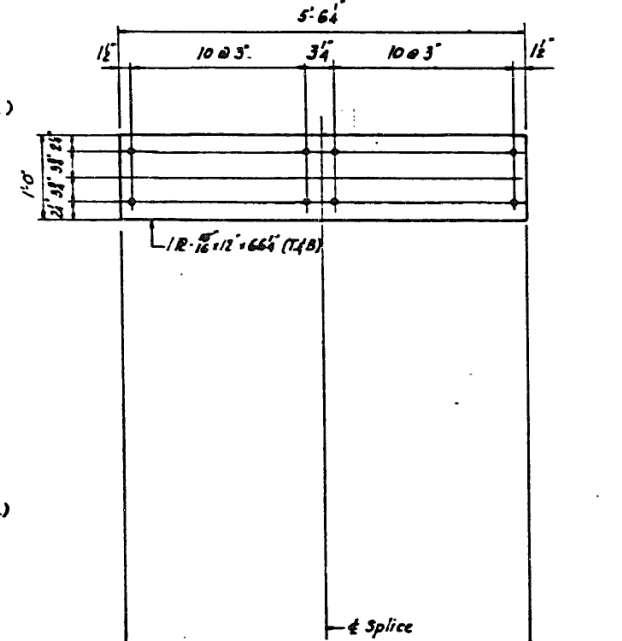
ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

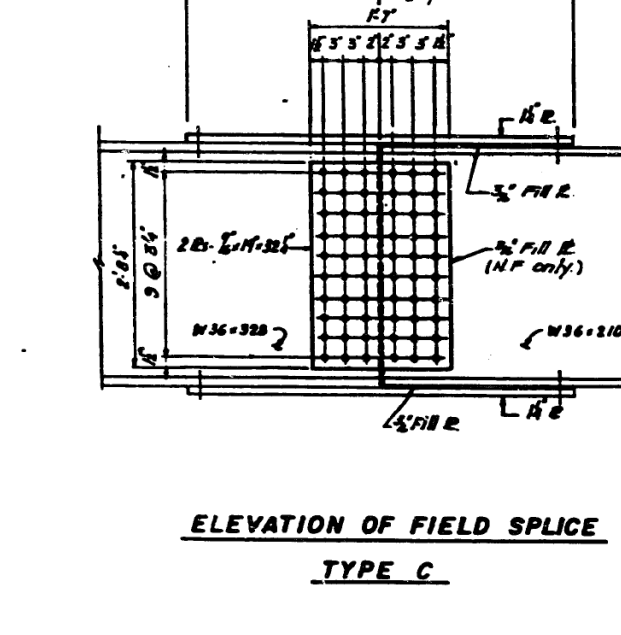
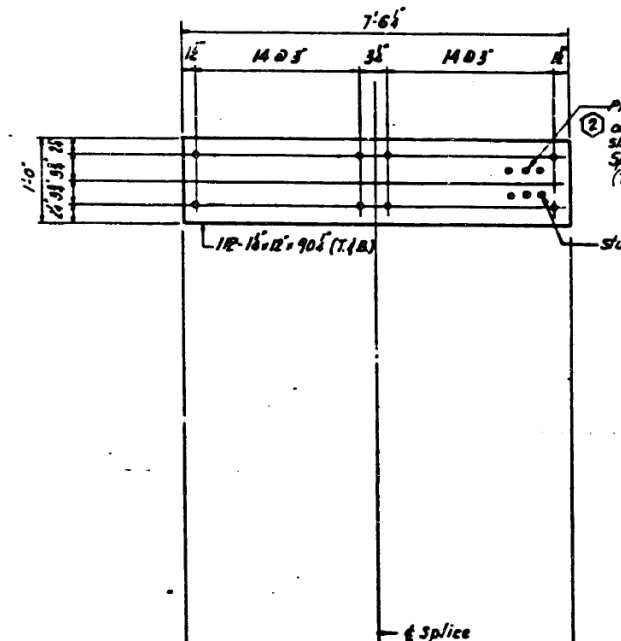
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	4	COOK	22	12
FED. NO. PROJ. NO. ILLINOIS FED. AID PROJECT				
# 1985-082R				



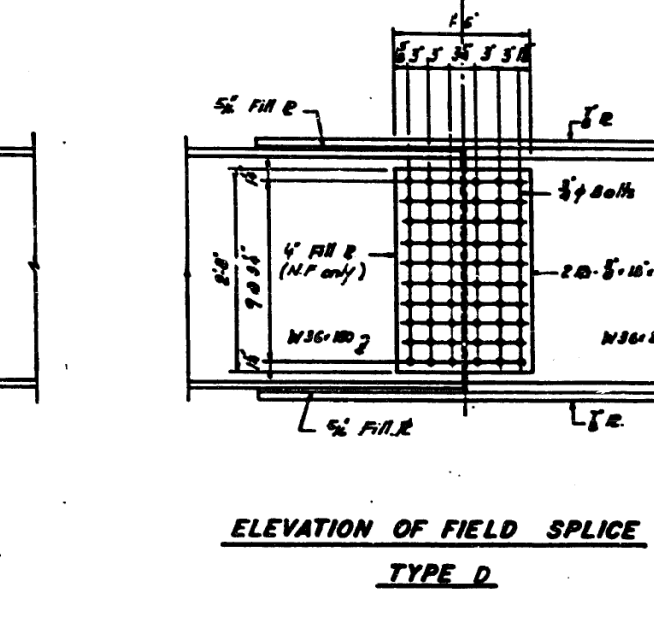
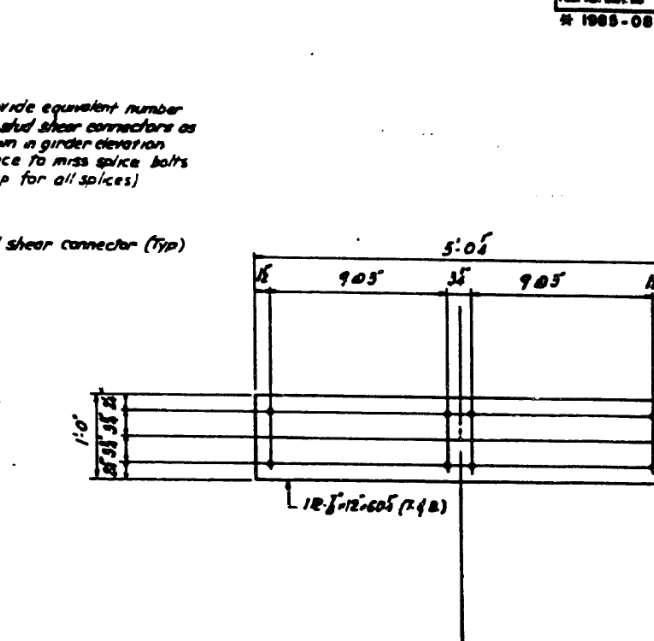
ELEVATION OF FIELD SPLICE TYPE A



ELEVATION OF FIELD SPLICE TYPE B



ELEVATION OF FIELD SPLICE TYPE C



ELEVATION OF FIELD SPLICE TYPE D

Provide equivalent number of stud shear connectors as shown in girder elevation. Space to miss splice bolts (Typ for all splices)

Stud shear connector (Typ)

Note: NTR - Notched Toughness Requirement - All Splice Plates.

All materials shown on this sheet furnished under a separate Steel Fabrication Contract (Section 085-081F), unless noted otherwise.

SHEET 012 OF 032

REVISIONS	
Name	Date
(1) Revision	7-5-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
EAL ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082R COOK COUNTY
S.S. MARSHLINE RECONSTRUCTION
STRUCTURE 090-1110
FIELD SPLICE DETAILS
Scale: NONE
Date: AUG 14 1997
Drawn By: J.S.
Checked By: M.E.J.
BRADSHAW ENGINEERS INC.
Chicago, Ill.

FILE NAME: D:\V\AECOM\NA-AW51\arecomonline\local\AECOM_DS02_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

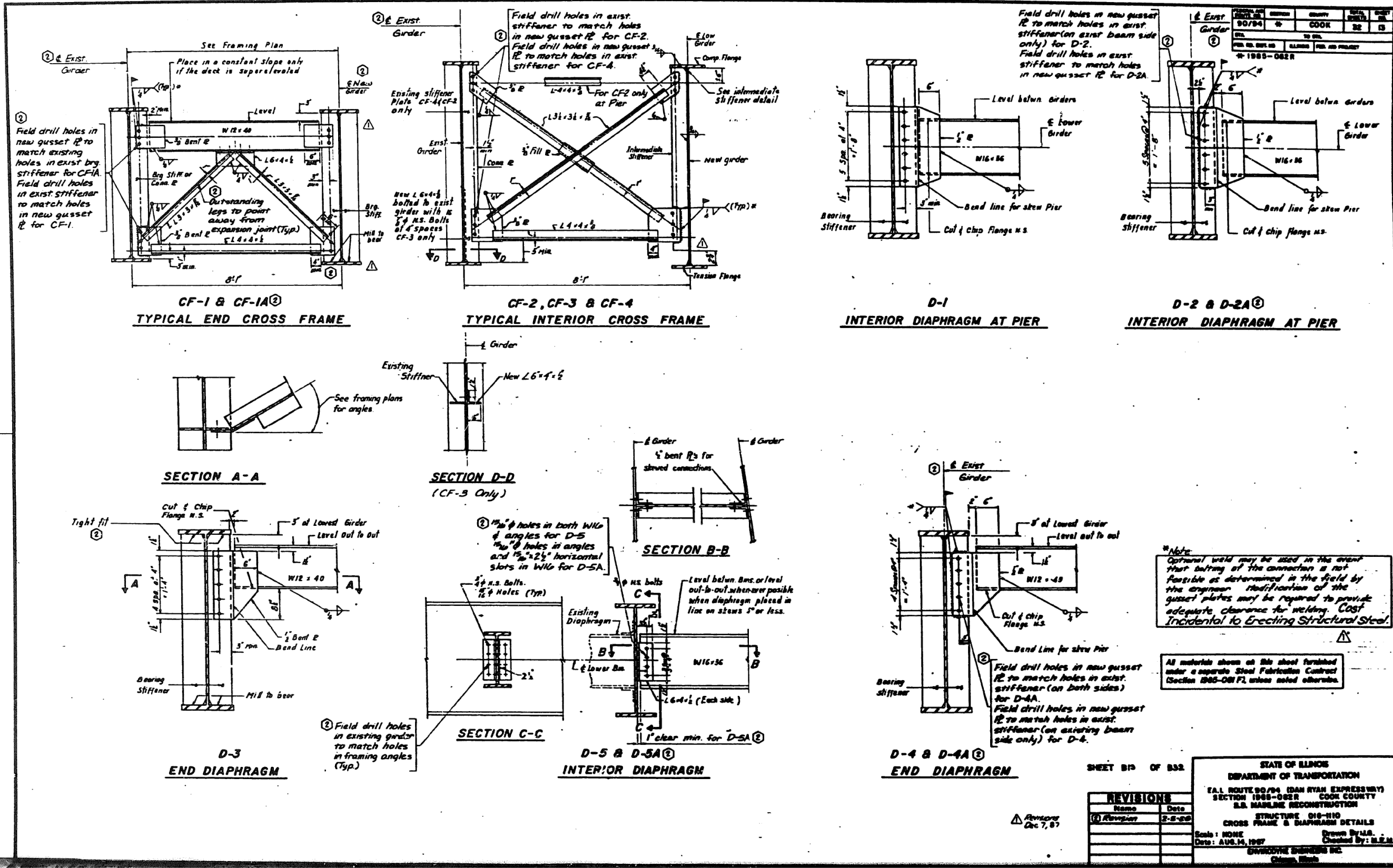
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-39 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1534
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



FILE NAME: D:\V\AE\COM-NA-AW51\arecomonline\local\AE\COM_D502_NAVDocuments\01_Americas\Transportation\620269938_Circle\Phase_II\000_CAD\008_Structural\Sign_Structure\62A76-Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

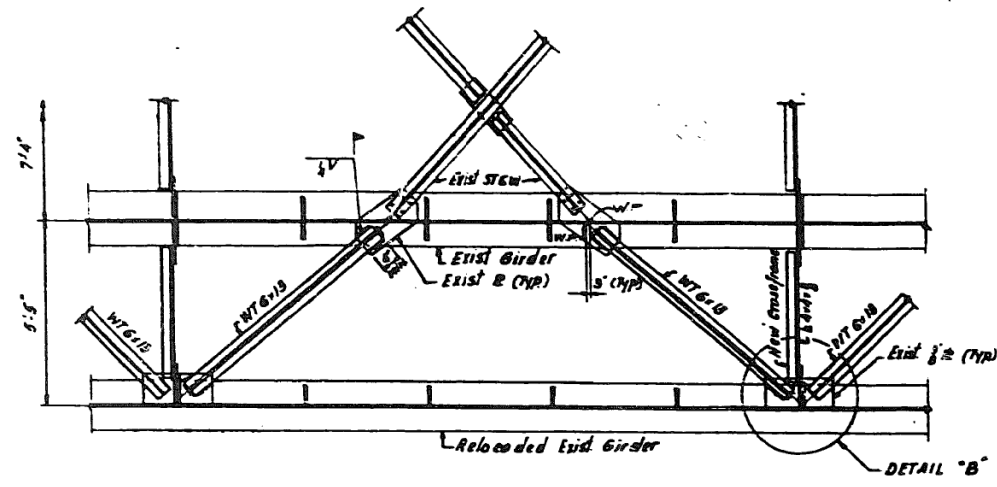
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

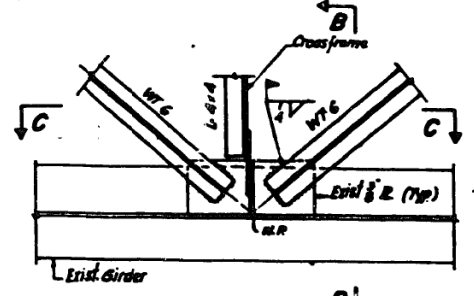
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90/94/290	2015-019R	COOK	2155	1535
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

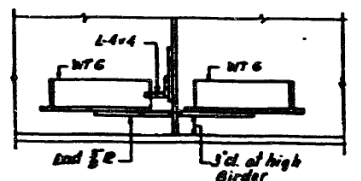
DATE	BY	CHECKED	NO.	SHEET
9/9/94	+	COOK	32	14
SHEET NO.				
TO BE				
FED. AID PROJ. NO.				
1585-0817				



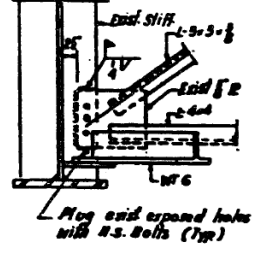
DETAIL "A"



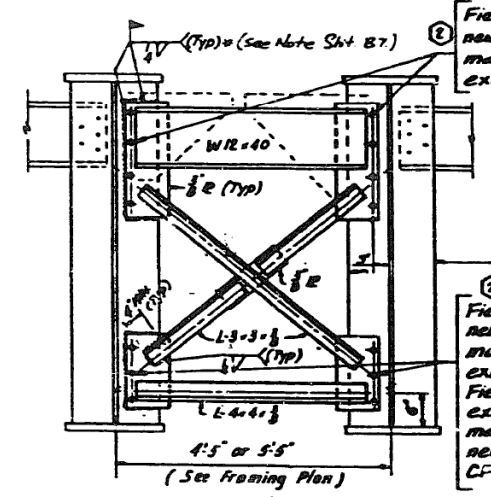
DETAIL "B"



SECTION C-C



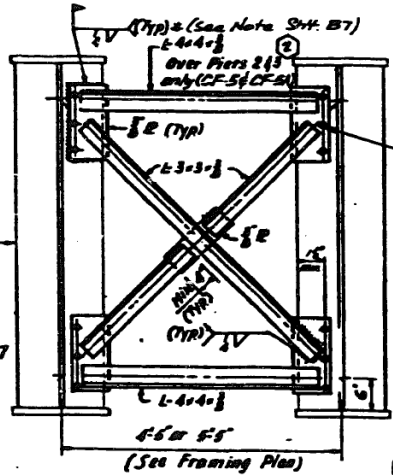
SECTION B-B



TYPICAL END CROSS FRAME

Field drill holes in new gusset PL to match holes in exist. stiffener.

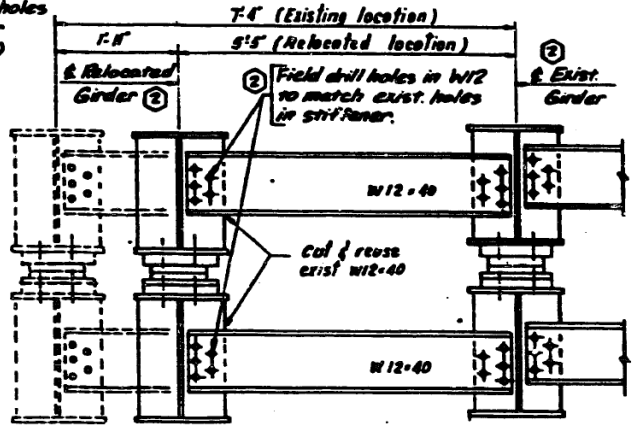
Field drill holes in new gusset PL to match holes in exist. stiffener for CF-7
Field drill holes in exist. stiffener to match holes in new gusset PL for CF-7A.



TYPICAL INTERIOR CROSS FRAME

Field drill holes in new gusset PL to match holes in exist. stiffeners for CF-5 & CF-6 (Typ.)
Field drill holes in exist. stiffener to match holes in new gusset PL for CF-5A & CF-6A (Typ.)

Field drill holes in new gusset PL to match holes in exist. stiffeners for CF-5 & CF-6 (Typ.)
Field drill holes in exist. stiffener to match holes in new gusset PL for CF-5A & CF-6A (Typ.)



CF-8

All materials shown on this sheet furnished under a separate Steel Fabrication Contract (Section 1585-0817), unless noted otherwise.

SHEET B14 OF B32

REVISIONS	
NO.	DATE
1	8-2-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
EAL ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1585-082R COOK COUNTY
S.B. MARLBOROUGH RECONSTRUCTION
STRUCTURE 016-1110
CROSS FRAME & BTM. LAT. BRACINGS
Scale: NONE
Date: AUG. 14, 1997
Drawn By: J.S.
Checked By: J.S.
S.W. ENGINEERING INC.
Chicago, Illinois

FILE NAME: D:\V\AECOM\NA-AWS1\arcocomonline.local\AECOM_ID502_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structures\62A76_Sign_Structure\62A76-Span-55229-ExstPlans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

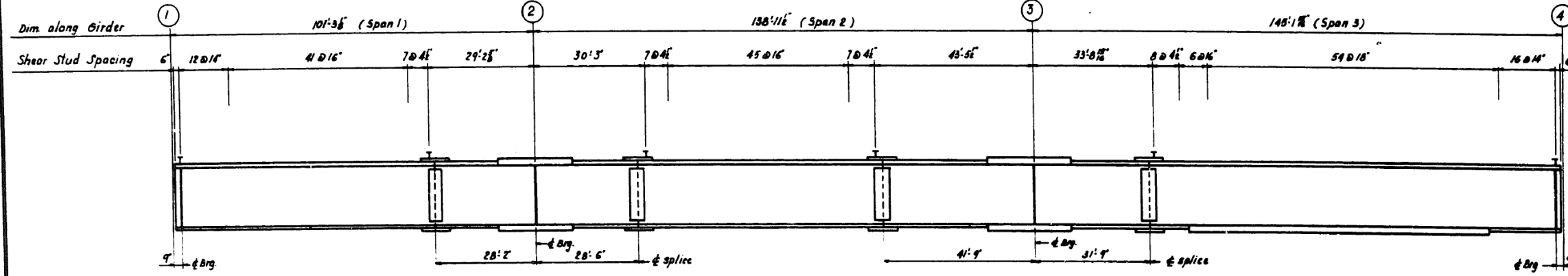
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO. AS13-41 OF AS13-82 SHEETS

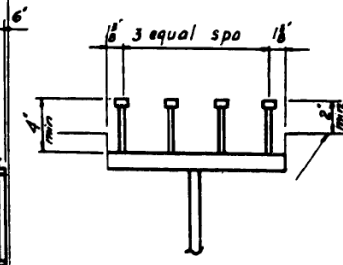
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1536
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		
	* 1985-082R			

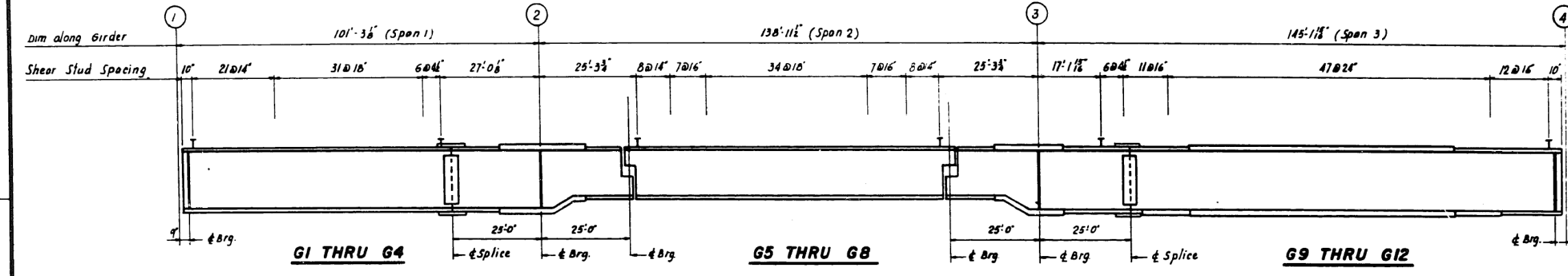


GIRDER G13 THRU G20 ELEVATION - SPAN 1 TO 3



TYPICAL DETAIL OF SHEAR CONNECTORS

Note:
Shear Connector locations at flange splice plates to be adjusted by installer, to miss splice bolts.



GIRDER G1 THRU G12 ELEVATION - SPAN 1 TO 3

SHEET B16 OF B32

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082R COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
EXISTING GIRDER CONNECTOR SPACING
Scale: NONE
Date: AUG. 14, 1987
Drawn By: M.E.L.
Checked By: M.E.L.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\V\AE\COM-NA-AW51...recomonline.local\AE\COM_ID502_NAV\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76_Sign_Structures\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

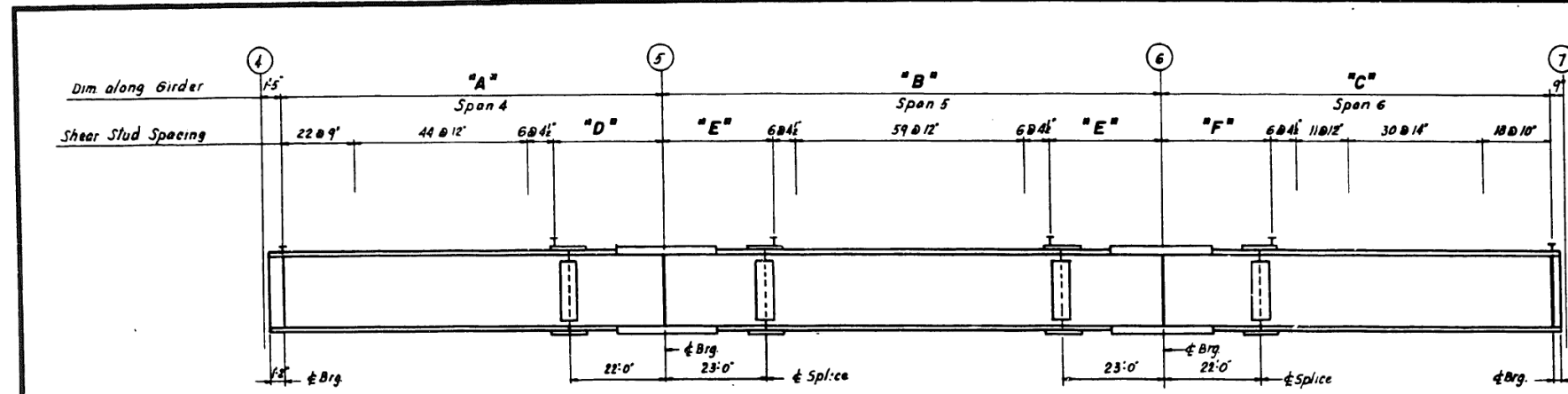
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-42 OF AS13-82SHEETS

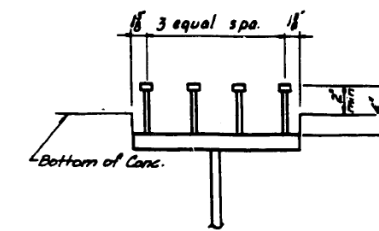
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1537
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY



GIRDER G42 THRU G54 ELEVATION - SPAN 4 TO 6

GIRDER	"A"	"B"	"C"	"D"	"E"	"F"
G 42	88'-2 1/4"	114'-3 1/2"	88'-10 1/4"	25'-5 1/2"	25'-4 1/2"	26'-7 1/2"
G 43	88'-1 1/2"	114'-2 1/2"	88'-10"	25'-4 1/2"	25'-4 1/2"	25'-7"
G 44	88'-0 3/4"	114'-1 1/8"	88'-9 1/8"	25'-3 1/2"	25'-3 3/8"	25'-6 1/4"
G 45	88'-0 1/4"	114'-0 3/4"	88'-8 1/4"	25'-3 1/4"	25'-3 1/4"	25'-5 1/2"
G 46	87'-11 1/8"	114'-0 3/4"	88'-8 3/4"	25'-2 3/8"	25'-3 1/4"	25'-5 1/2"
G 47	87'-11 1/4"	113'-11 1/4"	88'-8 1/2"	25'-2 1/4"	25'-2 7/8"	25'-5 1/2"
G 48	87'-11 1/2"	113'-11 1/4"	88'-7 3/4"	25'-2 1/2"	25'-2 7/8"	25'-4 1/2"
G 49 - G 54	87'-11 1/4"	113'-11 1/8"	88'-7 1/4"	25'-2 1/4"	25'-2 1/4"	25'-4 1/8"



TYPICAL DETAIL OF SHEAR CONNECTORS

Note:

Shear Connector locations at flange splice plates to be adjusted by installer, to miss splice bolts

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	32	16
STA.	TO STA.			
FED. AID DIST. NO.	ALTERNATE	FED. AID PROJECT		
* 1985-082R				

Length of stud shear connectors to be determined by the contractor in the field to insure a minimum of two (2) inch projection into the deck slab

SHEET B16 OF B52

REVISIONS	
Name	Date

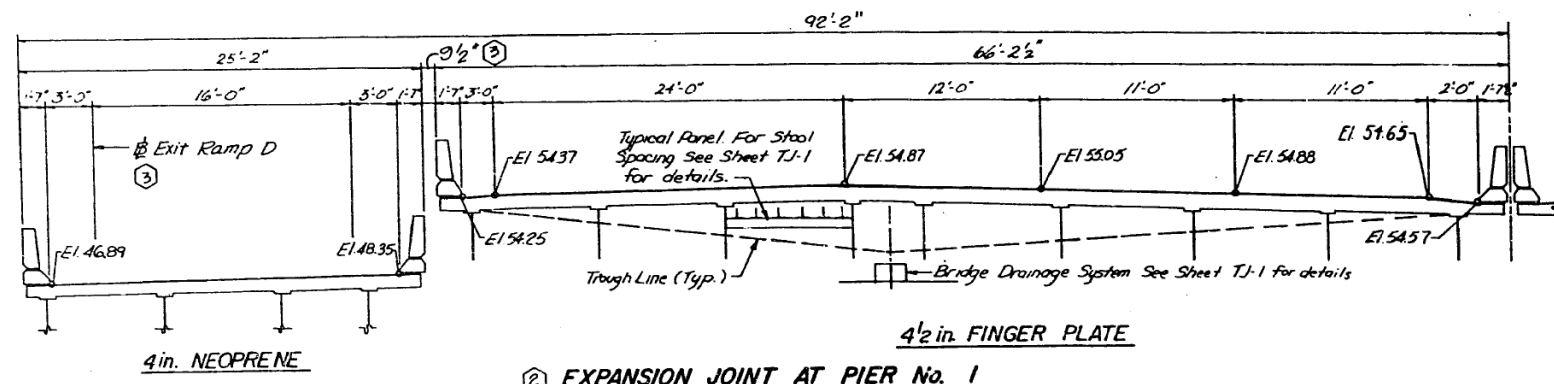
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082R COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
EXISTING GIRDER SHEAR CONNECTOR SPACING
Scale: NONE
Date: AUG. 14, 1987
Drawn By: M.E.M.
Checked By: M.E.M.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

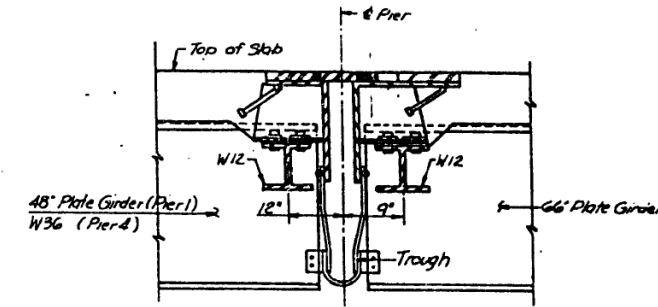
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1538
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

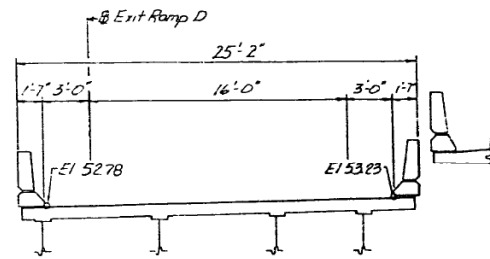
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	4	COOK	32	17
STA.	TO STA.			
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 1985-				



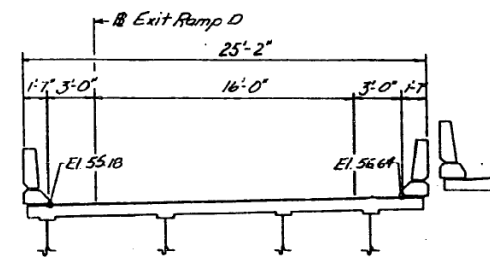
② EXPANSION JOINT AT PIER No. 1



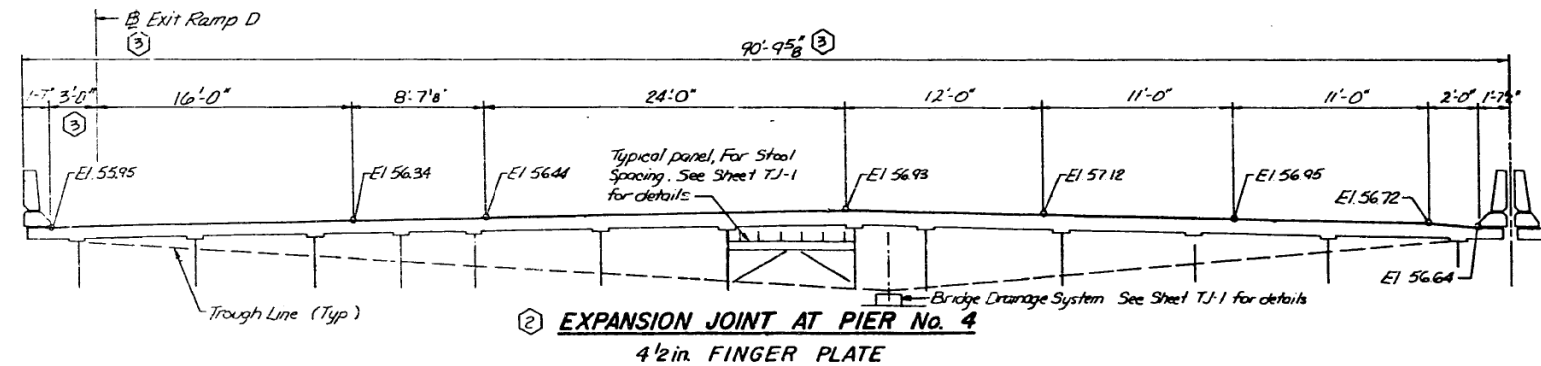
FINGER PLATE EXPANSION JOINT (TYPICAL CROSS SECTION)



② EXPANSION JOINT 'A' SPAN 2
2 in. PREFORMED JOINT SEAL



② EXPANSION JOINT 'B' SPAN 2
2 in. NEOPRENE



② EXPANSION JOINT AT PIER No. 4
4 1/2 in. FINGER PLATE

SHEET B17 OF B32

REVISIONS	
Name	Date
② Revision	2-5-88
③ Revision	3-11-88

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082R-COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
TRANSVERSE DECK JOINT ELEVATION
Scale: NONE
Date: AUG. 14, 1987
Drawn By: A.V.
Checked By: M.E.M.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

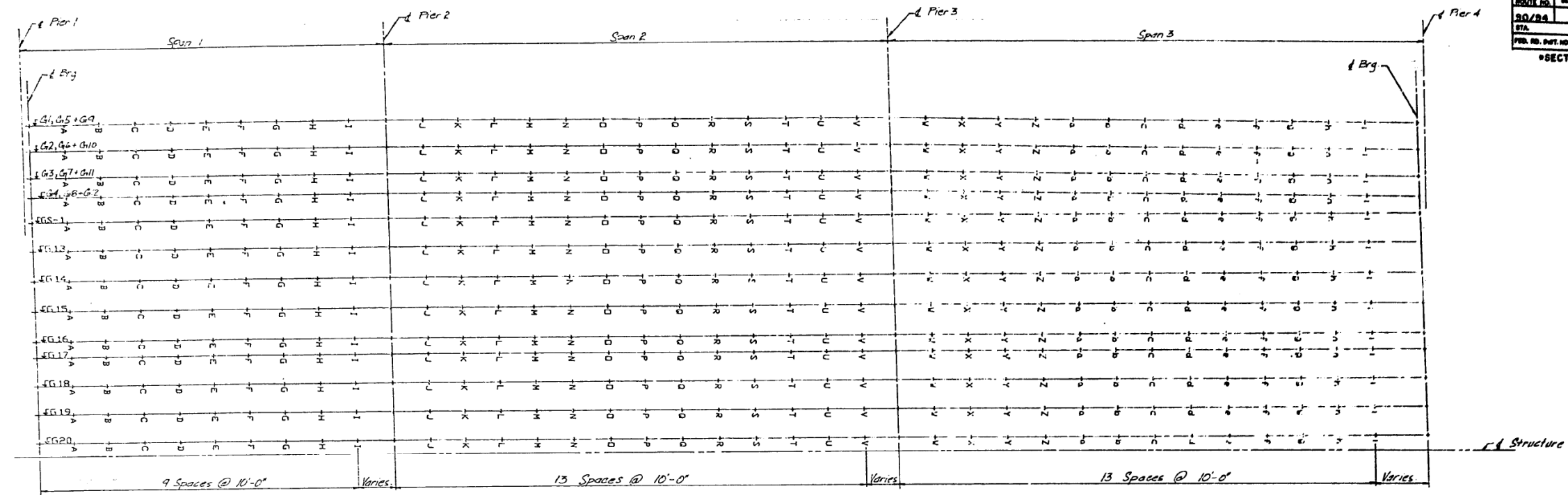
SHEET NO. AS13-44 OF AS13-82 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1539
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

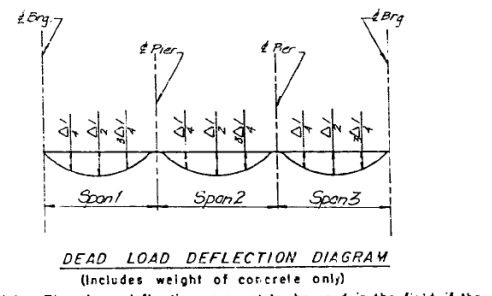
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FOR INFORMATION ONLY

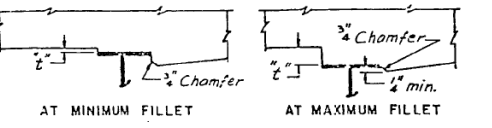
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	COOK	COOK	32	18
*SECTION 1985-082-R				



PLAN-UNIT 1
(FOR BEAM SPACING SEE FRAMING PLAN)



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 below.



AT MINIMUM FILLET AT MAXIMUM FILLET
To determine "f": After all steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "f" above top flanges of beams.

FILLET HEIGHTS

Beam	Δ ₁	Δ ₂	3Δ ₃
G1, G5	-0.47	-0.52	-0.25
G9	-0.59	-1.20	-0.32
G13	-1.20	-1.90	-1.50
G17	-0.29	-0.65	-0.31
G21	-0.73	-1.50	-0.39
G25	-1.50	-2.40	-1.80
G29	-0.51	-0.58	-0.27
G33	-0.65	-1.30	-0.35
G37	-1.40	-2.10	-1.60
G41	-0.47	-0.52	-0.25
G45	-0.59	-1.20	-0.32
G49	-1.20	-1.90	-1.50
G53	-0.49	-0.57	-0.26
G57	-0.33	-0.45	-0.59
G61	-1.12	-2.00	-1.50
G65	-0.53	-0.59	-0.25
G69	-0.78	-0.63	-0.13
G73	-1.10	-2.10	-1.70
G77	-0.54	-0.61	-0.25
G81	-1.10	-2.10	-1.70
G85	-0.54	-0.61	-0.25
G89	-1.10	-2.10	-1.70
G93	-0.44	-0.50	-0.20
G97	-0.30	-0.50	-0.10
G101	-1.00	-1.80	-1.50
G105	-0.43	-0.46	-0.19
G109	-0.30	-0.50	-0.10
G113	-0.97	-1.89	-1.40
G117	-0.47	-0.54	-0.21
G121	-0.33	-0.54	-0.10
G125	-1.10	-2.00	-1.60
G129	-0.47	-0.54	-0.21
G133	-1.10	-2.00	-1.60
G137	-0.48	-0.42	-0.18
G141	-0.28	-0.35	-0.09
G145	-0.80	-1.50	-1.20

TYPICAL FOR ALL BEAMS

LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION (ADJUSTED)	IDEAD LOAD DEFLECT.
PIER# 1	46.946	46.946	
A	47.545	47.564	
B	48.128	48.162	
C	48.590	48.753	
D	49.232	49.278	
E	49.752	49.798	
F	50.251	50.288	
G	50.729	50.795	
H	51.186	51.202	
I	51.622	51.628	
PIER# 2	52.054	52.054	
J	52.449	52.442	
K	52.821	52.820	
L	53.172	53.208	
M	53.502	53.588	
N	53.811	53.999	
O	54.099	54.200	
P	54.266	54.488	
Q	54.512	54.705	
R	54.836	54.905	
S	55.040	55.050	
T	55.222	55.232	
U	55.384	55.371	
V	55.524	55.505	
PIER# 3	55.631	55.631	
W	55.734	55.762	
X	55.816	55.874	
Y	55.877	55.964	
Z	55.916	56.029	
a	55.940	56.075	
b	55.962	56.112	
c	55.981	56.142	
d	56.005	56.167	
e	56.019	56.173	
f	56.027	56.175	
g	56.028	56.175	
h	56.028	56.175	
i	56.028	56.175	
PIER# 4	56.130	56.130	

LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION (ADJUSTED)	IDEAD LOAD DEFLECT.
PIER# 1	47.099	47.099	
A	47.697	47.721	
B	48.281	48.323	
C	48.843	48.896	
D	49.384	49.441	
E	49.904	49.958	
F	50.404	50.450	
G	50.882	50.915	
H	51.338	51.357	
I	51.774	51.781	
PIER# 2	52.208	52.208	
J	52.601	52.593	
K	52.974	52.985	
L	53.325	53.369	
M	53.655	53.734	
N	53.964	54.072	
O	54.252	54.376	
P	54.518	54.694	
Q	54.764	54.876	
R	54.989	55.074	
S	55.192	55.241	
T	55.375	55.387	
U	55.536	55.520	
V	55.677	55.654	
PIER# 3	55.784	55.784	
W	55.887	55.922	
X	55.969	56.041	
Y	56.029	56.137	
Z	56.069	56.209	
a	56.093	56.260	
b	56.115	56.302	
c	56.137	56.335	
d	56.158	56.357	
e	56.172	56.363	
f	56.180	56.353	
g	56.181	56.327	
h	56.178	56.285	
i	56.161	56.228	
PIER# 4	56.130	56.130	

LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION (ADJUSTED)	IDEAD LOAD DEFLECT.
PIER# 1	47.252	47.252	
A	47.850	47.871	
B	48.434	48.471	
C	48.996	49.043	
D	49.537	49.587	
E	50.057	50.105	
F	50.556	50.597	
G	51.034	51.063	
H	51.491	51.508	
I	51.927	51.933	
PIER# 2	52.360	52.360	
J	52.754	52.747	
K	53.126	53.136	
L	53.477	53.516	
M	53.807	53.877	
N	54.116	54.211	
O	54.404	54.514	
P	54.671	54.783	
Q	54.917	55.016	
R	55.141	55.216	
S	55.345	55.388	
T	55.527	55.537	
U	55.689	55.674	
V	55.829	55.808	
PIER# 3	55.937	55.937	
W	56.040	56.071	
X	56.122	56.185	
Y	56.182	56.277	
Z	56.222	56.346	
a	56.246	56.394	
b	56.268	56.433	
c	56.290	56.464	
d	56.310	56.486	
e	56.323	56.494	
f	56.333	56.486	
g	56.333	56.462	
h	56.327	56.428	
i	56.314	56.375	
PIER# 4	56.282	56.282	

Work this sheet with sheet no B19

SHEET B18 OF B32

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985 - 082 R - COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
TOP OF SLAB ELEVATION-UNIT 1
Scale: NONE
Date: AUGUST 14, 1987
Drawn By: CAD
Checked By: M.E.M.
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

Name	Date
Revisions	3-11-88

FILE NAME: D:\VAE\COM-NA-AW51\recomonline\local\AE\COM_ID502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO. AS13-45 OF AS13-82 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1540
				CONTRACT NO. 62A76
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	B	COOK	32	19
STATE TO STATE				
FED. AID DIST. NO.	ILLINOIS	FED. AID PROJECT		
#SECTION 1985-082-R				

BEAM: 64, 58+012

LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION	ADJUSTED ELEVATION	DEAD LOAD DEFLECT.
PIER# 1	47.365	47.365		
A	47.963	47.942		
B	48.546	48.530		
C	49.109	49.152		
D	49.650	49.676		
E	50.170	50.214		
F	50.669	50.706		
G	51.147	51.174		
H	51.604	51.620		
I	52.040	52.046		
J	52.473	52.473		
K	52.866	52.859		
L	53.238	53.247		
M	53.590	53.626		
N	53.920	53.984		
O	54.229	54.316		
P	54.517	54.617		
Q	54.783	54.885		
R	55.029	55.119		
S	55.254	55.322		
T	55.458	55.498		
U	55.640	55.650		
V	55.802	55.789		
W	55.942	55.923		
X	56.050	56.050		
Y	56.153	56.131		
Z	56.235	56.293		
a	56.293	56.332		
b	56.335	56.448		
c	56.358	56.453		
d	56.381	56.571		
e	56.403	56.562		
f	56.423	56.583		
g	56.438	56.592		
h	56.446	56.585		
i	56.446	56.584		
j	56.440	56.539		
k	56.426	56.482		
PIER# 4	56.395	56.395		

BEAM: 65-1

LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION	ADJUSTED ELEVATION	DEAD LOAD DEFLECT.
PIER# 1	54.313	54.313		
A	54.412	54.313		
B	54.512	54.547		
C	54.611	54.657		
D	54.711	54.761		
E	54.810	54.858		
F	54.910	54.950		
G	55.010	55.039		
H	55.109	55.124		
I	55.209	55.213		
J	55.313	55.313		
K	55.412	55.426		
L	55.507	55.529		
M	55.597	55.624		
N	55.683	55.712		
O	55.764	55.795		
P	55.841	55.875		
Q	55.913	55.950		
R	55.981	56.023		
S	56.044	56.090		
T	56.102	56.151		
U	56.156	56.205		
V	56.206	56.248		
W	56.251	56.277		
X	56.287	56.287		
Y	56.324	56.339		
Z	56.356	56.376		
a	56.383	56.453		
b	56.406	56.507		
c	56.424	56.553		
d	56.437	56.588		
e	56.446	56.612		
f	56.451	56.623		
g	56.451	56.619		
h	56.446	56.600		
i	56.437	56.568		
j	56.424	56.523		
k	56.405	56.484		
PIER# 4	56.371	56.371		

BEAM: 613

LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION	ADJUSTED ELEVATION	DEAD LOAD DEFLECT.
PIER# 1	54.512	54.512		
A	54.612	54.633		
B	54.712	54.750		
C	54.812	54.861		
D	54.912	54.965		
E	55.011	55.061		
F	55.111	55.152		
G	55.211	55.239		
H	55.311	55.326		
I	55.410	55.414		
J	55.514	55.514		
K	55.614	55.616		
L	55.708	55.720		
M	55.799	55.845		
N	55.885	55.924		
O	55.966	56.015		
P	56.043	56.077		
Q	56.115	56.167		
R	56.183	56.228		
S	56.246	56.279		
T	56.304	56.322		
U	56.358	56.360		
V	56.408	56.399		
W	56.453	56.442		
X	56.489	56.489		
Y	56.526	56.546		
Z	56.557	56.601		
a	56.585	56.659		
b	56.607	56.712		
c	56.625	56.758		
d	56.639	56.794		
e	56.648	56.818		
f	56.652	56.829		
g	56.652	56.825		
h	56.648	56.807		
i	56.639	56.775		
j	56.625	56.729		
k	56.607	56.672		
PIER# 4	56.572	56.572		

BEAM: 614

LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION	ADJUSTED ELEVATION	DEAD LOAD DEFLECT.
PIER# 1	54.686	54.686		
A	54.786	54.803		
B	54.836	54.925		
C	54.905	55.035		
D	54.965	55.139		
E	55.011	55.236		
F	55.058	55.327		
G	55.106	55.411		
H	55.146	55.489		
I	55.186	55.568		
J	55.226	55.648		
K	55.279	55.789		
L	55.322	55.855		
M	55.372	55.999		
N	55.422	56.272		
O	55.472	56.453		
P	55.520	56.619		
Q	55.570	56.771		
R	55.620	56.915		
S	55.670	57.052		
T	55.720	57.186		
U	55.770	57.316		
V	55.820	57.442		
W	55.870	57.564		
X	55.920	57.682		
Y	55.970	57.796		
Z	56.020	57.906		
a	56.070	58.012		
b	56.120	58.114		
c	56.170	58.212		
d	56.220	58.306		
e	56.270	58.396		
f	56.320	58.482		
g	56.370	58.564		
h	56.420	58.642		
i	56.470	58.716		
PIER# 4	56.919	56.919		

BEAM: 615

LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION	ADJUSTED ELEVATION	DEAD LOAD DEFLECT.
PIER# 1	54.690	54.690		
A	54.790	54.981		
B	54.889	55.098		
C	54.985	55.209		
D	55.079	55.310		
E	55.171	55.409		
F	55.261	55.500		
G	55.350	55.587		
H	55.438	55.673		
I	55.526	55.752		
J	55.614	55.824		
K	55.701	55.892		
L	55.788	55.956		
M	55.875	56.016		
N	55.962	56.072		
O	56.049	56.124		
P	56.136	56.172		
Q	56.223	56.216		
R	56.310	56.256		
S	56.397	56.292		
T	56.484	56.324		
U	56.571	56.352		
V	56.658	56.376		
W	56.745	56.399		
X	56.832	56.419		
Y	56.919	56.435		
Z	57.006	56.448		
a	57.093	56.458		
b	57.180	56.462		
c	57.267	56.463		
d	57.354	56.461		
e	57.441	56.456		
f	57.528	56.448		
g	57.615	56.437		
h	57.702	56.422		
i	57.789	56.403		
PIER# 4	57.876	56.379		

BEAM: 616

LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION	ADJUSTED ELEVATION	DEAD LOAD DEFLECT.
PIER# 1	56.919	56.919		
A	57.019	57.019		
B	57.119	57.019		
C	57.219	57.019		
D	57.319	57.019		
E	57.419	57.019		
F	57.519	57.019		
G	57.619	57.019		
H	57.719	57.019		
I	57.819	57.019		
J	57.919	57.019		
K	58.019	57.019		
L	58.119	57.019		
M	58.219	57.019		
N	58.319	57.019		
O	58.419	57.019		
P	58.519	57.019		
Q	58.619	57.019		
R	58.719	57.019		
S	58.819	57.019		
T	58.919	57.019		
U	59.019	57.019		
V	59.119	57.019		
W	59.219	57.019		
X	59.319	57.019		
Y	59.419	57.019		
Z	59.519	57.019		
a	59.619	57.019		
b	59.719	57.019		
c	59.819	57.019		
d	59.919	57.019		
e	60.019	57.019		
f	60.119	57.019		
g	60.219	57.019		
h	60.319	57.019		
i	60.419	57.019		
PIER# 4	60.519	57.019		

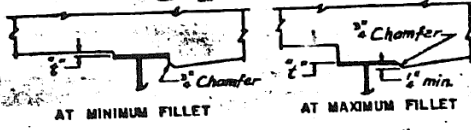
BEAM: 617

LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION	ADJUSTED ELEVATION	DEAD LOAD DEFLECT.
PIER# 1	55.063	55.063		
A	55.162	55.162		
B	55.262	55.263		
C	55.362	55.401		
D	55.462	55.503		
E	55.562	55.601		
F	55.661	55.692		
G	55.761	55.783		
H	55.861	55.874		
I	55.961	55.964		
J	56.065	56.065		
K	56.164	56.165		
L	56.259	56.268		
M	56.349	56.349		
N	56.435	56.455		
O	56.516	56.554		
P	56.593	56.635		
Q	56.665	56.707		
R	56.733	56.759		
S	56.796	56.822		
T	56.854	56.880		
U	56.908	56.910		
V	56.958	56.951		
W	57.003	56.994		
X	57.042	57.040		
Y	57.076	57.076		
Z	57.108	57.147		
a	57.135	57.200		
b	57.158	57.249		
c	57.176	57.290		
d	57.189	57.322		
e	57.198	57.344		
f	57.203	57.354		
g	57.203	57.351		
h	57.198	57.334		
i	57.189	57.303		
j	57.175	57.264		
k	57.157	57.213		
PIER# 4	57.122	57.122		

BEAM: 618

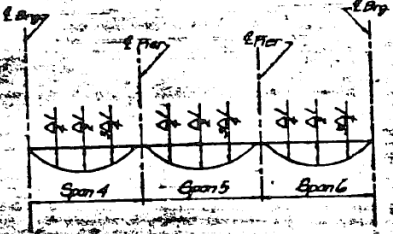
LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION	ADJUSTED ELEVATION	DEAD LOAD DEFLECT.
PIER# 1	54.939	54.739		
A	55.039	55.057		
B	55.140	55.173		
C	55.240	55.284		
D	55.340	55.388		

FOR INFORMATION ONLY



To determine "f": After all steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "f" above top flanges of beams.

FILLET HEIGHTS



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 below.

Span	Pier	Grid Line	Beam	Theor. Elevation	Grade Elevation	Deflection
Span 4	Pier 4	A-Z	ATG-1	35.945	35.945	0.000
			ATG-2	35.926	35.926	0.000
			ATG-3	35.907	35.907	0.000
			ATG-4	35.888	35.888	0.000
			ATG-5	35.869	35.869	0.000
			ATG-6	35.850	35.850	0.000
			ATG-7	35.831	35.831	0.000
			ATG-8	35.812	35.812	0.000
			ATG-9	35.793	35.793	0.000
			ATG-10	35.774	35.774	0.000
			ATG-11	35.755	35.755	0.000
			ATG-12	35.736	35.736	0.000
			ATG-13	35.717	35.717	0.000
			ATG-14	35.698	35.698	0.000
Span 5	Pier 5	A-Z	ATG-1	35.928	35.928	0.000
			ATG-2	35.911	35.911	0.000
			ATG-3	35.894	35.894	0.000
			ATG-4	35.877	35.877	0.000
			ATG-5	35.860	35.860	0.000
			ATG-6	35.843	35.843	0.000
			ATG-7	35.826	35.826	0.000
			ATG-8	35.809	35.809	0.000
			ATG-9	35.792	35.792	0.000
			ATG-10	35.775	35.775	0.000
			ATG-11	35.758	35.758	0.000
			ATG-12	35.741	35.741	0.000
			ATG-13	35.724	35.724	0.000
			ATG-14	35.707	35.707	0.000
Span 6	Pier 6	A-Z	ATG-1	35.804	35.804	0.000
			ATG-2	35.787	35.787	0.000
			ATG-3	35.770	35.770	0.000
			ATG-4	35.753	35.753	0.000
			ATG-5	35.736	35.736	0.000
			ATG-6	35.719	35.719	0.000
			ATG-7	35.702	35.702	0.000
			ATG-8	35.685	35.685	0.000
			ATG-9	35.668	35.668	0.000
			ATG-10	35.651	35.651	0.000
			ATG-11	35.634	35.634	0.000
			ATG-12	35.617	35.617	0.000
			ATG-13	35.600	35.600	0.000
			ATG-14	35.583	35.583	0.000

DEAD LOAD DEFLECTION IN INCHES

Beam	Span 4	Span 5	Span 6
BB-3	-0.48	-0.74	-0.27
BB-3	-0.58	-1.00	-0.67
BB-3	-0.32	-0.73	-0.67
BB-2	-0.59	-0.63	-0.22
BB-2	-0.38	-0.66	-0.64
BB-2	-0.42	-0.91	-0.79
B42	-0.47	-0.20	-0.18
B42	-0.30	-0.89	-0.46
B42	-0.60	-0.64	-0.73
B43	-0.43	-0.94	-0.99
B43	-0.17	-0.66	-0.57
B44	-0.68	-0.87	-0.33
B44	-0.43	-0.94	-0.99
B44	-0.17	-0.60	-0.57
B45	-0.80	-0.87	-0.33
B45	-0.43	-0.94	-0.99
B45	-0.17	-0.60	-0.57
B46	-0.60	-0.87	-0.33
B46	-0.43	-0.94	-0.99
B46	-0.17	-0.60	-0.57
B47	-0.80	-0.87	-0.33
B47	-0.43	-0.94	-0.99
B47	-0.17	-0.60	-0.57
B48	-0.80	-0.87	-0.33
B48	-0.43	-0.94	-0.99
B48	-0.17	-0.60	-0.57
B49	-0.17	-0.60	-0.57
B49	-0.36	-0.77	-0.60
B49	-0.20	-0.60	-0.57
B50	-0.84	-0.70	-0.23
B50	-0.45	-0.88	-0.48
B50	-0.27	-0.74	-0.67
B51	-0.70	-0.77	-0.27
B51	-0.46	-0.93	-0.46
B51	-0.27	-0.77	-0.70
B52	-0.70	-0.77	-0.27
B52	-0.46	-0.93	-0.46
B52	-0.27	-0.77	-0.70
B53	-0.46	-0.70	-0.46
B53	-0.27	-0.77	-0.70
B54	-0.37	-0.63	-0.22
B54	-0.37	-0.79	-0.37
B54	-0.22	-0.63	-0.57

BEAM BB-3				BEAM BB-2				BEAM B42				BEAM B43				BEAM B44			
LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECT.	THEOR. GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECT.	LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECT.	THEOR. GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECT.	LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECT.	THEOR. GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECT.	LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECT.	THEOR. GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECT.	LOCATION	THEOR. GRADE ELEVATION	THEOR. GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECT.	THEOR. GRADE ELEVATION ADJUSTED FOR DEAD LOAD DEFLECT.
PIER 4	35.945	35.945	35.945	PIER 4	35.928	35.928	35.928	PIER 4	35.804	35.804	35.804	PIER 4	35.787	35.787	35.787	PIER 4	35.770	35.770	35.770
A	35.926	35.926	35.926	A	35.911	35.911	35.911	A	35.787	35.787	35.787	A	35.770	35.770	35.770	A	35.753	35.753	35.753
B	35.907	35.907	35.907	B	35.894	35.894	35.894	B	35.770	35.770	35.770	B	35.753	35.753	35.753	B	35.736	35.736	35.736
C	35.772	35.772	35.772	C	35.877	35.877	35.877	C	35.753	35.753	35.753	C	35.736	35.736	35.736	C	35.719	35.719	35.719
D	35.740	35.740	35.740	D	35.860	35.860	35.860	D	35.736	35.736	35.736	D	35.719	35.719	35.719	D	35.702	35.702	35.702
E	35.703	35.703	35.703	E	35.826	35.826	35.826	E	35.719	35.719	35.719	E	35.702	35.702	35.702	E	35.685	35.685	35.685
F	35.661	35.661	35.661	F	35.786	35.786	35.786	F	35.685	35.685	35.685	F	35.668	35.668	35.668	F	35.651	35.651	35.651
G	35.614	35.614	35.614	G	35.741	35.741	35.741	G	35.649	35.649	35.649	G	35.634	35.634	35.634	G	35.617	35.617	35.617
H	35.563	35.563	35.563	H	35.692	35.692	35.692	H	35.594	35.594	35.594	H	35.579	35.579	35.579	H	35.562	35.562	35.562
I	35.519	35.519	35.519	I	35.648	35.648	35.648	I	35.550	35.550	35.550	I	35.535	35.535	35.535	I	35.518	35.518	35.518
J	35.423	35.423	35.423	J	35.590	35.590	35.590	J	35.497	35.497	35.497	J	35.482	35.482	35.482	J	35.465	35.465	35.465
K	35.387	35.387	35.387	K	35.538	35.538	35.538	K	35.440	35.440	35.440	K	35.425	35.425	35.425	K	35.408	35.408	35.408
L	35.315	35.315	35.315	L	35.461	35.461	35.461	L	35.398	35.398	35.398	L	35.383	35.383	35.383	L	35.366	35.366	35.366
M	35.239	35.239	35.239	M	35.389	35.389	35.389	M	35.356	35.356	35.356	M	35.341	35.341	35.341	M	35.324	35.324	35.324
N	35.156	35.156	35.156	N	35.313	35.313	35.313	N	35.325	35.325	35.325	N	35.310	35.310	35.310	N	35.293	35.293	35.293
O	35.070	35.070	35.070	O	35.232	35.232	35.232	O	35.248	35.248	35.248	O	35.233	35.233	35.233	O	35.216	35.216	35.216
P	34.979	34.979	34.979	P	35.147	35.147	35.147	P	35.164	35.164	35.164	P	35.149	35.149	35.149	P	35.132	35.132	35.132
Q	34.884	34.884	34.884	Q	35.058	35.058	35.058	Q	35.074	35.074	35.074	Q	35.059	35.059	35.059	Q	35.042	35.042	35.042
R	34.794	34.794	34.794	R	34.963	34.963	34.963	R	34.979	34.979	34.979	R	34.964	34.964	34.964	R	34.947	34.947	34.947
S	34.680	34.680	34.680	S	34.865	34.865	34.865	S	34.881	34.881	34.881	S	34.866	34.866	34.866	S	34.849	34.849	34.849
T	34.526	34.526	34.526	T	34.717	34.717	34.717	T	34.800	34.800	34.800	T	34.785	34.785	34.785	T	34.768	34.768	34.768
U	34.414	34.414	34.414	U	34.607	34.607	34.607	U	34.791	34.791	34.791	U	34.776	34.776	34.776	U	34.759	34.759	34.759
V	34.298	34.298	34.298	V	34.493	34.493	34.493	V	34.682	34.682	34.682	V	34.667	34.667	34.667	V	34.650	34.650	34.650
W	34.177	34.177	34.177	W	34.374	34.374	34.374	W	34.563	34.563	34.563	W	34.548	34.548	34.548	W	34.531	34.531	34.531
X	34.052	34.052	34.052	X	34.251	34.251	34.251	X	34.440	34.440	34.440	X	34.425	34.425	34.425	X	34.408	34.408	34.408
Y	33.923	33.923	33.923	Y	34.123	34.123	34.123	Y	34.322	34.322	34.322	Y	34.307	34.307	34.307	Y	34.290	34.290	34.290
Z	33.788	33.788	33.788	Z	33.991	33.991	33.991	Z	34.202	34.202	34.202	Z	34.187	34.187	34.187	Z	34.170	34.170	34.170
AA	33.650	33.650	33.650	AA	33.864	33.864	33.864	AA	34.081	34.081	34.081	AA	34.066	34.066	34.066	AA	34.049	34.049	34.049
AB	33.506	33.506	33.506	AB	33.712	33.712	33.712	AB	33.963	33.963	33.963	AB	33.948	33.948	33.948	AB	33.931	33.931	33.931
AC	33.376	33.376	33.376	AC	33.583	33.583	33.583	AC	33.843	33.843	33.843	AC	33.828	33.828	33.828	AC	33.811	33.811	33.811

PLAN-UNIT 2 (FOR BEAM SPACING SEE FRAMING PLAN)

Work this sheet with sheet no. B 21

SHEET B 20 OF B 32

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.L. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985 - 022 R - COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016-1110
TOP OF SLAB ELEVATION-UNIT 2
Scale: NONE
Date: AUGUST 14, 1967
Checked By: M.E.R.
BIRDWYME ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\VIA\COM-NA-AW51_... 1/24/2020



USER NAME = francisco.lopez	DESIGNED = JMI	REVISED =
CHECKED = MAI, JJS	REVISED =	
PLOT SCALE = N.T.S	DRAWN = JMI	REVISED =
PLOT DATE = 1/24/2020	CHECKED = MAI, JJS	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110
SHEET NO.AS13-47 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1542
CONTRACT NO. 62A76				

FOR INFORMATION ONLY

SECTION 1885-022-R

Table with columns: LOCATION, THEOR. GRADE, THEOR. ELEVATION, ADJUSTED GRADE, ADJUSTED ELEVATION, DEAD LOAD, DEFLECT.

Table with columns: LOCATION, THEOR. GRADE, THEOR. ELEVATION, ADJUSTED GRADE, ADJUSTED ELEVATION, DEAD LOAD, DEFLECT.

Table with columns: LOCATION, THEOR. GRADE, THEOR. ELEVATION, ADJUSTED GRADE, ADJUSTED ELEVATION, DEAD LOAD, DEFLECT.

Table with columns: LOCATION, THEOR. GRADE, THEOR. ELEVATION, ADJUSTED GRADE, ADJUSTED ELEVATION, DEAD LOAD, DEFLECT.

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Table with columns: LOCATION, THEOR. GRADE, THEOR. ELEVATION, ADJUSTED GRADE, ADJUSTED ELEVATION, DEAD LOAD, DEFLECT.

Work this sheet with sheet no B20

SHEET B 21 OF B 32

Table with columns: Name, Date, REVISIONS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION E.A.L. ROUTE 90/94 (DAN RYAN EXPRESSWAY) SECTION 1885 - 0 22 R - COOK COUNTY S.B. MAINLINE RECONSTRUCTION

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS STRUCTURE NO. 016-1110

SHEET NO.AS13-48 OF AS13-82SHEETS

Table with columns: F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. 62A76

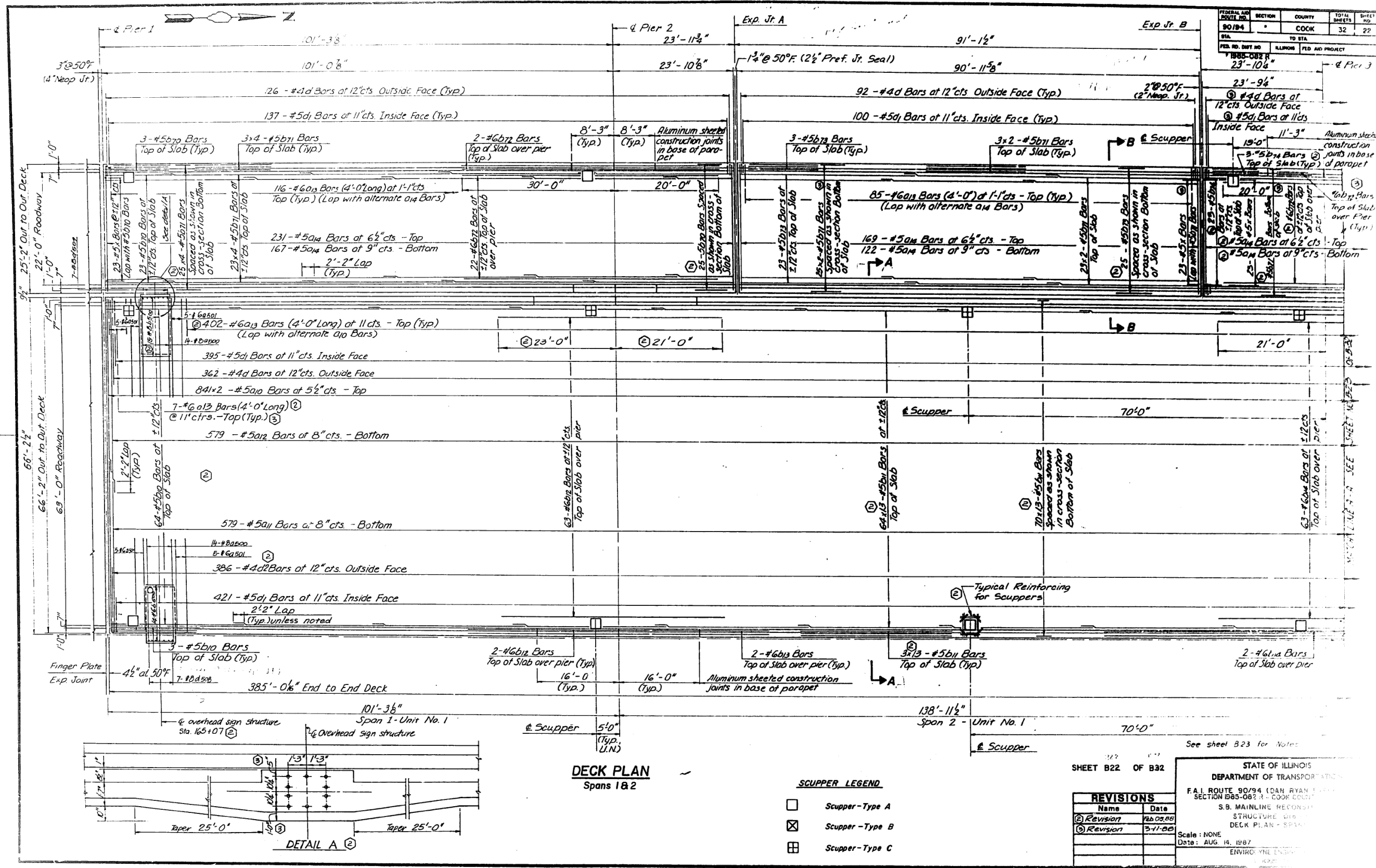
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Table with columns: USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE, REVISED, DRAWN, CHECKED

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FOR INFORMATION ONLY



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USER NAME =	francisco.lopez	DESIGNED -	JMI	REVISED -	
CHECKED -	MAL JJS	REVISIONS -			
PLOT SCALE =	N.T.S	DRAWN -	JMI	REVISED -	
PLOT DATE =	1/24/2020	CHECKED -	MAL JJS	REVISED -	

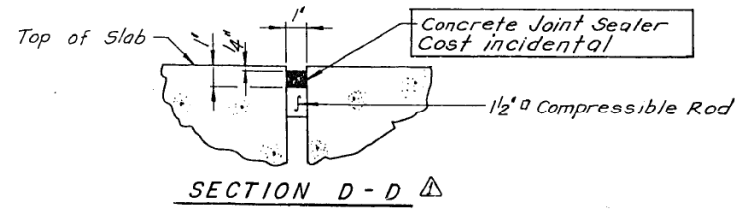
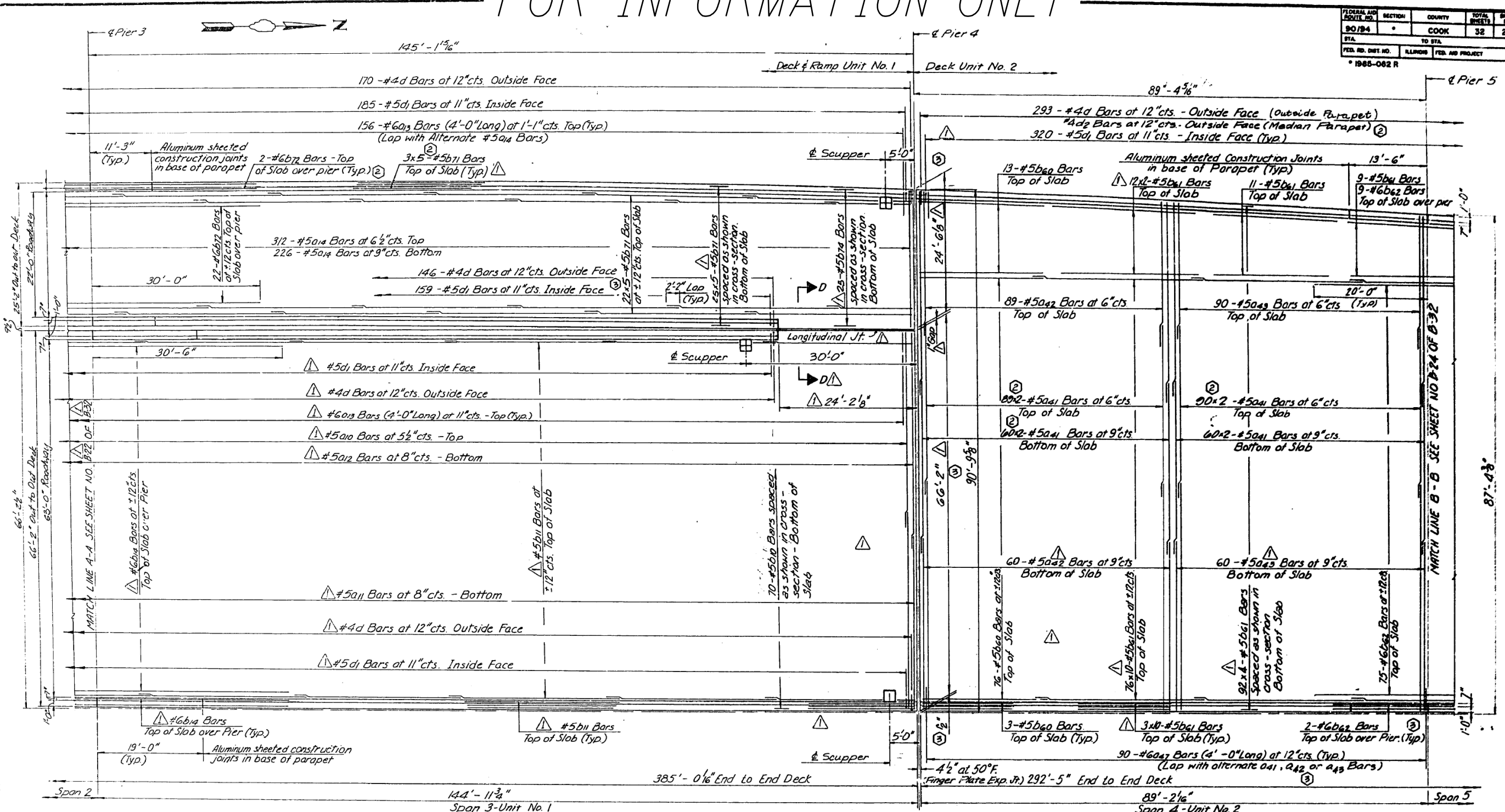
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1544
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

FEDERAL AID DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	32	23
STA.	TO STA.			
FED. RD. DIST. NO.	ALPHABETIC PROJECT	FED. AID PROJECT		
* 1985-082 R				



NOTES:
 See sheet TJI.2,3 for Expansion Joint Details.
 See sheet B29 for Bill of Material and bar bending schedule.
 Bars indicated thus 3x12 -#5 etc. denotes 3 lines with 12 lengths per line.
 All reinforcement in concrete deck to be epoxy coated.
 Typical splice lengths for #5 bars to be 2'-2" min.
 See sheet BSI.2,3 for Scupper Details.
 See sheet PDI Volume 13 for Sign Post Support Details.
 Horizontal dimensions (Span Length) are measured along inside face of parapet (Chord Length)

Revisions - Dec 7, 1987

SHEET B23 OF B32

REVISIONS	
Name	Date
(1) Revision	1/10/88
(2) Revision	2-11-88

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-082 R - COOK COUNTY
 S.B. MAINLINE RECONSTRUCTION
 STRUCTURE 018-1110
 DECK PLAN - SPANS 3 & 4

Scale: NONE
 Date: AUG. 14, 1987
 Drawn By: MMS
 Checked By: MEM

ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

DECK PLAN Span 3 & 4

FILE NAME: D:\VIAECOM\NA-AWS1\recomonline\local\AECOM_D502_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76-Span-55229-Extr\plans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

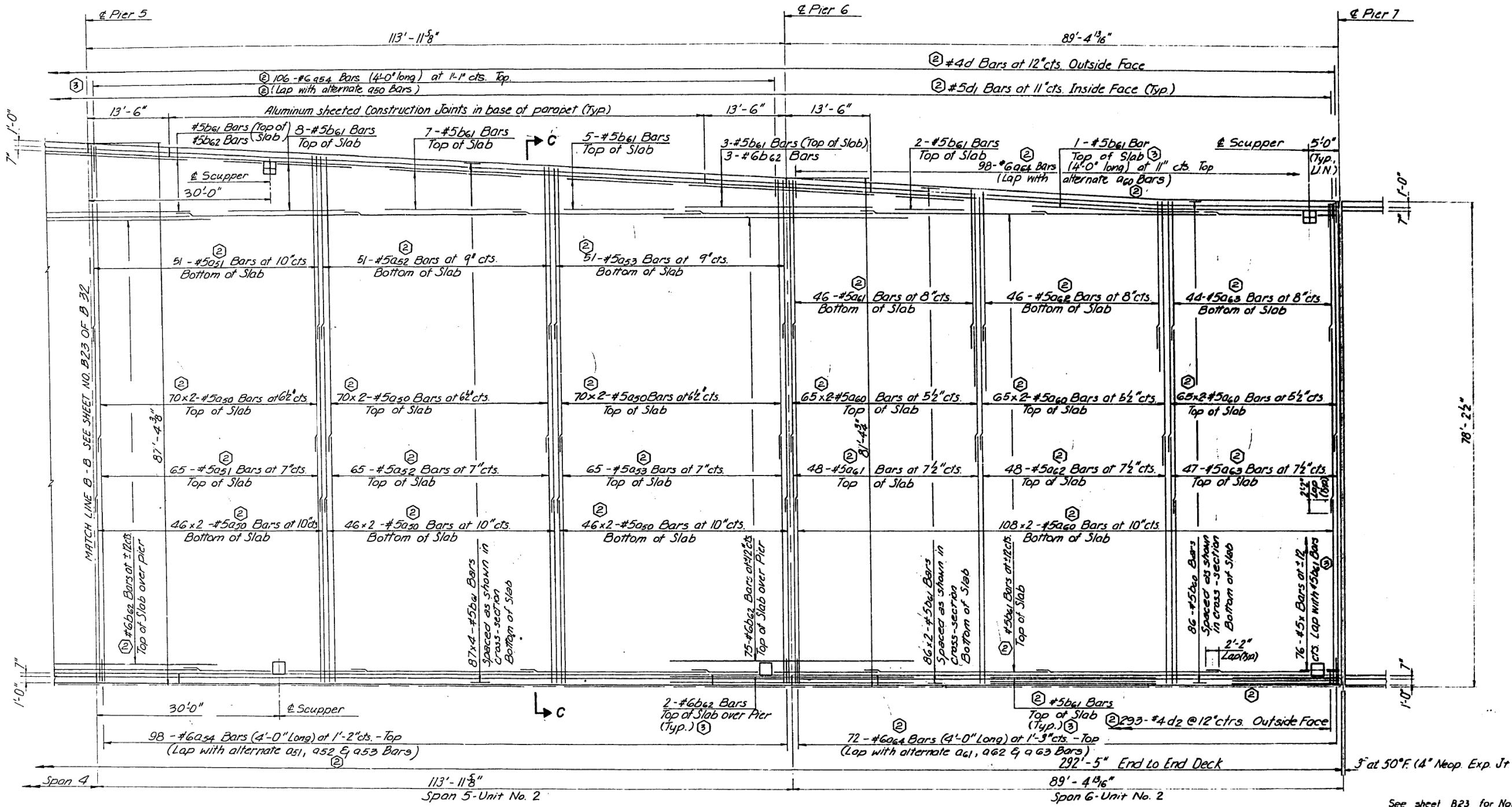
EXISTING RECORD DRAWINGS STRUCTURE NO. 016-1110

SHEET NO.AS13-50 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1545
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	52	24
STA. TO STA.				
FED. DIST. NO.				
ILLINOIS FED. AID PROJECT				
• 1985-082 R				



DECK PLAN
Spans 5 & 6

15:11 032
SHEET B24 OF B92

REVISIONS

Revision	Name	Date
②	Revision	03-05-86
③	Revision	3-11-88

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R - COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016 - 1110
DECK PLAN - SPANS 5 & 6
Scale: NONE
Date: AUG. 14, 1987
Drawn By: ASR
Checked By: MEM
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S.	CHECKED - MAL, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAL, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

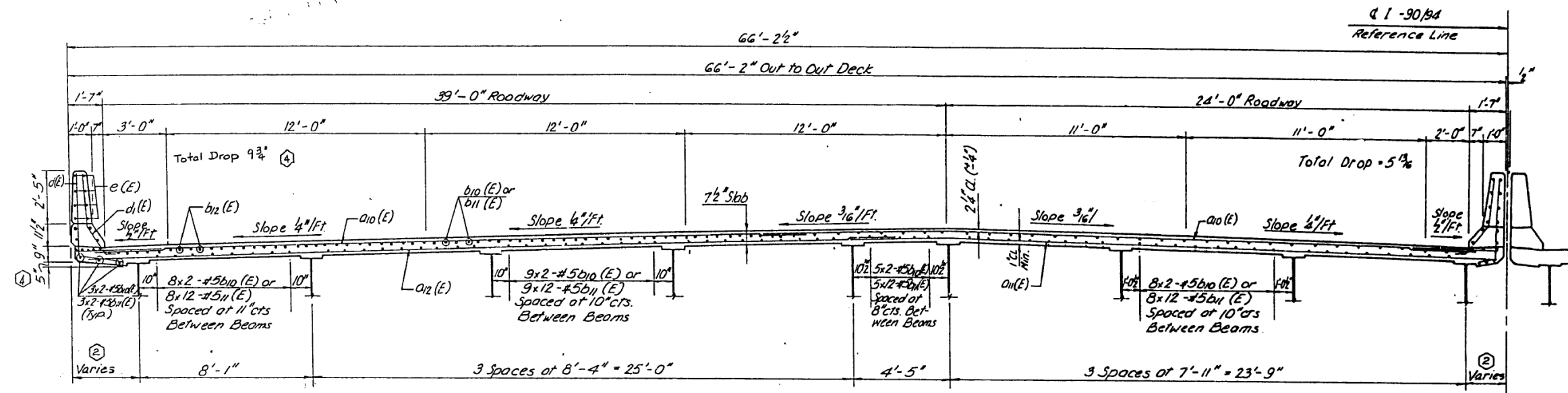
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO. AS13-51 OF AS13-82 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1546
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

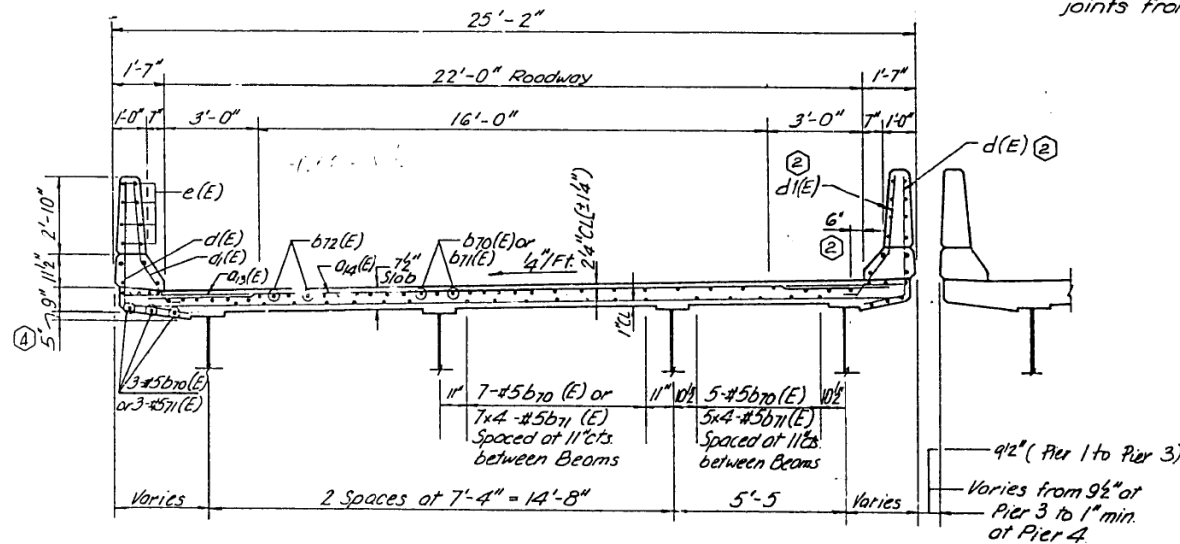
FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/294		COOK	32	25
STA.	TO STA.			
FED. AID DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION A-A
DECK UNIT NO. 1 (Looking North)

Note: If the deck cannot be poured full width the Contractor shall request approval of location of longitudinal joints from the Engineer.



SECTION B-B
EXIT RAMP (Looking North)

See sheet B23 for Notes

7.15 8.22
SHEET 825 OF 832

REVISIONS	
Name	Date
(2) Revision	10.08.08
(1) Revision	1.25.08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R - COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016 - 1110
CROSS-SECTION

Scale: NONE
Date: AUG. 14, 1987
Drawn By: A.S.R.
Checked By: M.E.M.
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\V\AE\COM-NA-AW51\ae\comonline-local\AE\COM_DS02_NA\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76-502-NA\Drawings.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

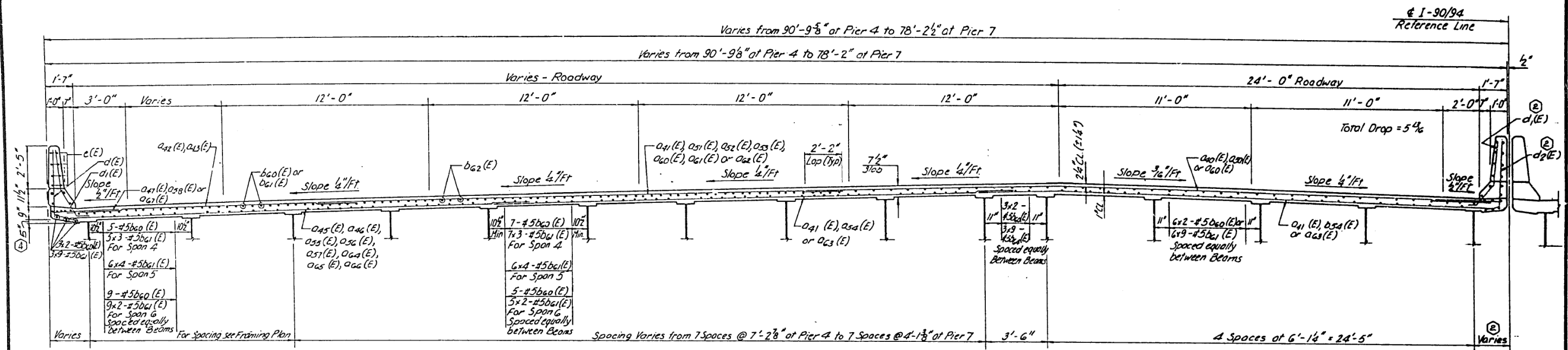
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-52 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1547
			CONTRACT NO. 62A76	
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	32	26
STA. TO STA.		FED. AID PROJECT		
1985-082 R				



SECTION C-C
DECK UNIT NO. 2 (Looking North)

② Note: If the deck cannot be poured full width the Contractor shall request approval of location of longitudinal joints from the Engineer.

See sheet B23 for Notes

SHEET 826 OF 832

REVISIONS	
Name	Date
② Revision	Feb 05 88
① Revision	4-27-88

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R - COOK COUNTY
S.B. MAINLINE RECONSTRUCTION
STRUCTURE 016 - 1110
CROSS - SECTION

Scale: NONE
Date: AUG. 14, 1987
Drawn By: A. S. R.
Checked By: M. E. M.

ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\VAE\COM-NA-AW51\recomonline\local\AECOM_DS02_NAV\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76-Span-S5229-Extrplans.dgn



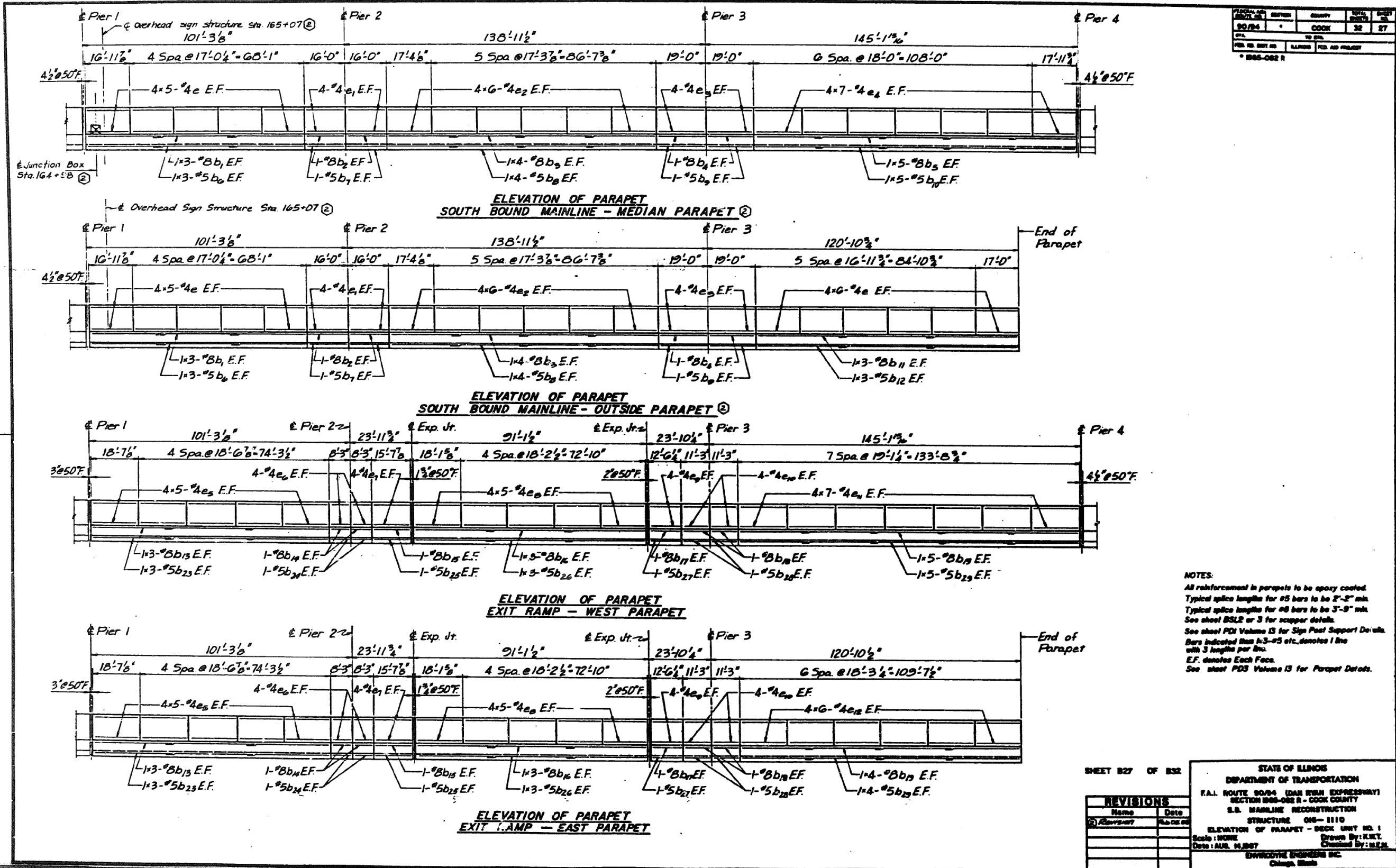
USER NAME =	francisco.lopez	DESIGNED -	JMI	REVISED -	
CHECKED -	MAI, JJS	REVISIONS -			
PLOT SCALE =	N.T.S	DRAWN -	JMI	REVISED -	
PLOT DATE =	1/24/2020	CHECKED -	MAI, JJS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110
SHEET NO. AS13-53 OF AS13-82 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1548
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 62A76				

FOR INFORMATION ONLY



FILE NAME: D:\V\COM-NA-AW51...americas\Transportation\60269938_Circle\Phase_1\0000_CAD\008_Structural\Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

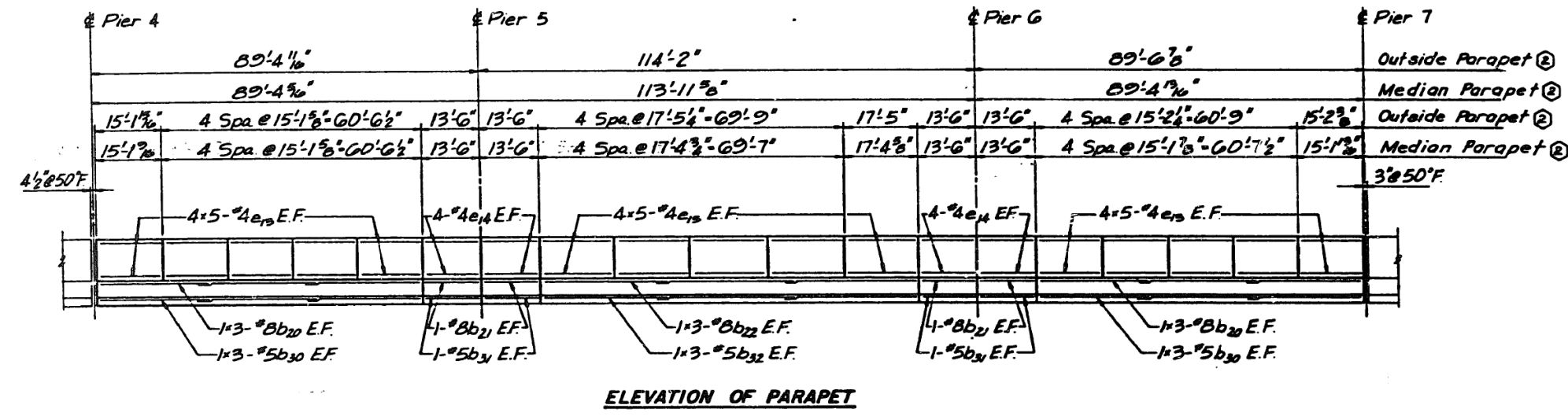
EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110

SHEET NO. AS13-54 OF AS13-82 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS 2155	SHEET NO. 1549
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

FOR INFORMATION ONLY

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/19-4		COOK	32	28
DATE	BY		CHECKED	
	10/20/17		M.A.I.	
FED. AID PROJECT				



See sheet B27 for Notes.

SHEET B28 OF B38

REVISIONS	
NO.	DATE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 ILL. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1905-019R - COOK COUNTY
 S.E. MAINLINE RECONSTRUCTION
 STRUCTURE 016-1110
 ELEVATION OF PARAPET - DECK UNIT NO. 2
 Scale: NONE
 Date: AUG. 14, 2017
 Drawn By: M.E.T.
 Checked By: M.E.M.
 ENGINEERING GROUP, LLC
 Chicago, Illinois

FILE NAME: D:\VAE\COM-NA-AWS1\recomonline\local\AE\COM_D502_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_CAD\008_Structural\Sign_Structure\62A76-Span-55229-Extr\plans.dgn 11:05:11 AM



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110

SHEET NO.AS13-55 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1550
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

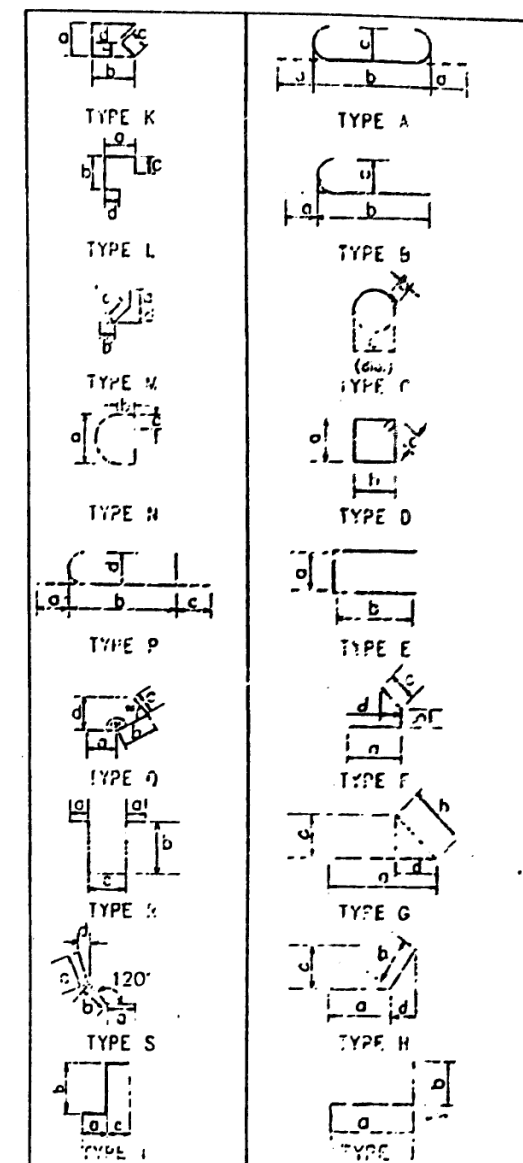
FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	P	COOK	32	29
STA.	TO STA.			
FED. AID DIST. NO.	ILLINOIS	FED. AID PROJECT		
* SECTION 1985-082 R				

STRUCTURE	MARK	NUMBER	SIZE	LENGTH	TYPE
UNIT No 1	a10(E)	1682	#5	33'-0"	
UNIT No 1	a11(E)	579	#5	30'-0"	
UNIT No 1	a12(E)	579	#5	36'-0"	
UNIT No 1	a13(E)	818	#6	4'-0"	
UNIT No 1	a500(E)	28	#8	20'-0"	
UNIT No 1	a501(E)	20	#6	18'-0"	
UNIT No 1	b10(E)	140	#5	23'-3"	
UNIT No 1	b11(E)	1820	#5	30'-0"	
UNIT No 1	b12(E)	67	#6	44'-0"	
UNIT No 1	b14(E)	67	#6	51'-6"	
UNIT No 1	b500(E)	29	#6	5'-9"	
UNIT No 1	b501(E)	38	#6	20'-0"	
UNIT No 1	d(E)	362	#4	5'-10"	
UNIT No 1	d1(E)	816	#5	4'-7"	
UNIT No 1	d2(E)	396	#4	5'-1"	
UNIT No 1	d500(E)	22	#5	6'-0"	
UNIT No 1	d501(E)	12	#4	5'-10"	
UNIT No 1	d508(E)	7	#8	17'-3"	
UNIT No 1	d509(E)	7	#8	18'-3"	
UNIT No 1	s1(E)	160	#5	2'-0"	
UNIT No 1	s2(E)	120	#5	5'-0"	
RAMP UNIT 1	a13(E)	714	#6	4'-0"	
RAMP UNIT 1	a14(E)	1227	#5	23'-0"	
RAMP UNIT 1	b70(E)	54	#5	14'-0"	
RAMP UNIT 1	b71(E)	589	#5	30'-0"	
RAMP UNIT 1	b72(E)	52	#6	50'-0"	
RAMP UNIT 1	b73(E)	54	#5	35'-0"	
RAMP UNIT 1	b74(E)	54	#5	31'-3"	
RAMP UNIT 1	d(E)	752	#4	5'-10"	
RAMP UNIT 1	d1(E)	818	#5	4'-7"	
RAMP UNIT 1	x(E)	69	#5	4'-1"	
RAMP UNIT 1	s1(E)	64	#5	2'-0"	
RAMP UNIT 1	s2(E)	48	#5	5'-0"	
UNIT No 2	a41(E)	598	#5	30'-0"	
UNIT No 2	a42(E)	149	#5	34'-10"	
UNIT No 2	a43(E)	150	#5	33'-2"	
UNIT No 2	a47(E)	180	#6	4'-0"	
UNIT No 2	a50(E)	696	#5	30'-0"	
UNIT No 2	a51(E)	116	#5	31'-4"	
UNIT No 2	a52(E)	116	#5	30'-4"	
UNIT No 2	a53(E)	116	#5	27'-4"	
UNIT No 2	a54(E)	204	#6	4'-0"	
UNIT No 2	a60(E)	606	#5	30'-0"	
UNIT No 2	a61(E)	94	#5	25'-4"	
UNIT No 2	a62(E)	94	#5	23'-9"	
UNIT No 2	a63(E)	91	#5	22'-2"	
UNIT No 2	a64(E)	170	#6	4'-0"	
UNIT No 2	b60(E)	181	#5	17'-10"	
UNIT No 2	b61(E)	1778	#5	30'-0"	
UNIT No 2	b62(E)	170	#6	40'-0"	
UNIT No 2	d(E)	293	#4	5'-10"	
UNIT No 2	d1(E)	640	#5	4'-7"	
UNIT No 2	d2(E)	293	#4	5'-1"	
UNIT No 2	x(E)	76	#5	4'-1"	
UNIT No 2	s1(E)	89	#5	2'-0"	
UNIT No 2	s2(E)	60	#5	5'-0"	

STRUCTURE	MARK	NUMBER	SIZE	LENGTH	TYPE
PARAPET	b1(E)	12	#8	25'-10"	
PARAPET	b2(E)	8	#8	15'-9"	
PARAPET	b3(E)	16	#8	28'-9"	
PARAPET	b4(E)	8	#8	18'-9"	
PARAPET	b5(E)	10	#8	28'-2"	
PARAPET	b6(E)	12	#5	29'-5"	
PARAPET	b7(E)	8	#5	15'-9"	
PARAPET	b8(E)	16	#5	27'-6"	
PARAPET	b9(E)	8	#5	18'-9"	
PARAPET	b10(E)	10	#5	27'-0"	
PARAPET	b11(E)	6	#8	36'-4"	
PARAPET	b12(E)	6	#5	35'-4"	
PARAPET	b13(E)	12	#8	33'-5"	
PARAPET	b14(E)	8	#8	8'-0"	
PARAPET	b15(E)	4	#8	15'-4"	
PARAPET	b16(E)	12	#8	32'-9"	
PARAPET	b17(E)	4	#8	12'-3"	
PARAPET	b18(E)	6	#8	11'-0"	
PARAPET	b19(E)	18	#8	30'-1"	
PARAPET	b20(E)	24	#3	27'-9"	
PARAPET	b21(E)	16	#3	13'-3"	
PARAPET	b22(E)	12	#8	31'-6"	
PARAPET	b23(E)	12	#5	32'-4"	
PARAPET	b24(E)	8	#5	8'-0"	
PARAPET	b25(E)	4	#5	15'-4"	
PARAPET	b26(E)	12	#5	31'-9"	
PARAPET	b27(E)	4	#5	12'-3"	
PARAPET	b28(E)	8	#5	11'-0"	
PARAPET	b29(E)	18	#5	28'-11"	
PARAPET	b30(E)	24	#5	26'-9"	
PARAPET	b31(E)	16	#5	13'-3"	
PARAPET	b32(E)	12	#5	30'-6"	
PARAPET	d502(E)	7	#5	4'-9"	
PARAPET	d503(E)	10	#7	14'-4"	
PARAPET	d504(E)	10	#5	10'-7"	
PARAPET	e(E)	128	#4	16'-9"	
PARAPET	e1(E)	32	#4	15'-9"	
PARAPET	e2(E)	96	#4	17'-0"	
PARAPET	e3(E)	32	#4	18'-9"	
PARAPET	e4(E)	56	#4	17'-9"	
PARAPET	e5(E)	80	#4	18'-3"	
PARAPET	e6(E)	32	#4	8'-0"	
PARAPET	e7(E)	16	#4	15'-4"	
PARAPET	e9(E)	16	#4	12'-3"	
PARAPET	e10(E)	32	#4	11'-0"	
PARAPET	e11(E)	56	#4	18'-10"	
PARAPET	e12(E)	48	#4	18'-0"	
PARAPET	e13(E)	160	#4	14'-10"	
PARAPET	e14(E)	64	#4	13'-3"	
PARAPET	e15(E)	80	#4	17'-1"	
PARAPET	e300(E)	4	#6	5'-8"	
PARAPET	e301(E)	10	#5	2'-6"	
PARAPET	e500(E)	8	#4	5'-9"	
PARAPET	e8(E)	80	#4	17'-10"	
ALL SPANS	d30(E)	500	#4	2'-4"	┘

MARK	BENT BAR DETAILS			
	a	b	c	d
△ d508(E)	4'-7"	2'-9"	9'-11"	0'-8"
△ d509(E)	4'-7"	3'-7"	10'-1"	0'-8"
✓ d(E)	3'-10"	2'-0"		0'-2"
✓ d2(E)	3'-10"	1'-3"		0'-2"
✓ d501(E)	3'-10"	2'-0"		0'-2"
✓ d1(E)	0'-6"	1'-7"	2'-6"	0'-2 1/2"
✓ d500(E)	2'-2"	1'-4"	2'-6"	0'-2 1/2"
△ d502(E)	2'-8"	2'-1"		0'-3"
┘ d503(E)	2'-0"	2'-3 1/2"	5'-9"	
┘ d504(E)	2'-0"	2'-3 1/2"	2'-0"	
┘ x(E)	0'-7"	3'-6"	0'-4 1/2"	
┘ d301(E)	0'-10"	0'-6"	1'-0"	



SHEET 829 OF 832

REVISIONS	
Name	Date
① - New Sheet	2-5-89
② - Revision	5-11-88

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90 / 94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-082 R - COOK COUNTY
 S.B. MAINLINE RECONSTRUCTION
 STRUCTURE 016 - 1110
 BAR LIST

Scale: NONE
 Date: AUG. 14, 1987
 Drawn By: CAD
 Checked By: M.E.M.
ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

FILE NAME: D:\VAE\COM-NA-AWS1\recomonline\local\AECOM_D502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structure\62A76_Sign_Structure\62A76-Span-55229-Exftplans.dgn
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FOR INFORMATION ONLY

FAI 90/94

1985-077B-R

Volume 13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID INTERSTATE HIGHWAY

VOL. NO.	DESCRIPTION	NO. OF SHEETS
<u>CIVIL</u>		
1	ROADWAY PLANS & GENERAL SHEETS	127
2	MAINTENANCE OF TRAFFIC & ROADWAY CROSS SECTIONS	45
<u>STRUCTURAL</u>		
3	STRUCTURE NO. 016-0137 (MAXWELL ST. TO 15TH ST.)	65
4	STRUCTURE NO. 016-1110 (15TH ST. TO 16TH ST.)	33
5	STRUCTURE NO. 016-1111 (16TH ST. TO 18TH ST.)	51
6	STRUCTURE NO. 016-1112 (18TH ST. TO CERMAK RD.)	91
7	STRUCTURE NO. 016-1113 (CERMAK RD. TO CHICAGO RIVER)	88
8	STRUCTURE NO. 016-1114 & 1070 (CHICAGO RIVER BRIDGE)	16
9	STRUCTURE NO. 016-1115 (I-55 INTERCHANGE-MAINLINE)	101
10	STRUCTURE NO. 016-1047 & 1140 (I-55 INTERCHANGE-RAMPS)	53
11	STRUCTURE NO. 016-1116 (CANAL ST. TO STEWART AVE.)	21
12	STRUCTURE NO. 016-1117 & 1118 (STEWART AVE. TO 28TH PL.)	98
13	MISCELLANEOUS VIADUCT DETAILS	88
<u>ELECTRICAL</u>		
14	ROADWAY LIGHTING & SURVEILLANCE	49
TOTAL		926

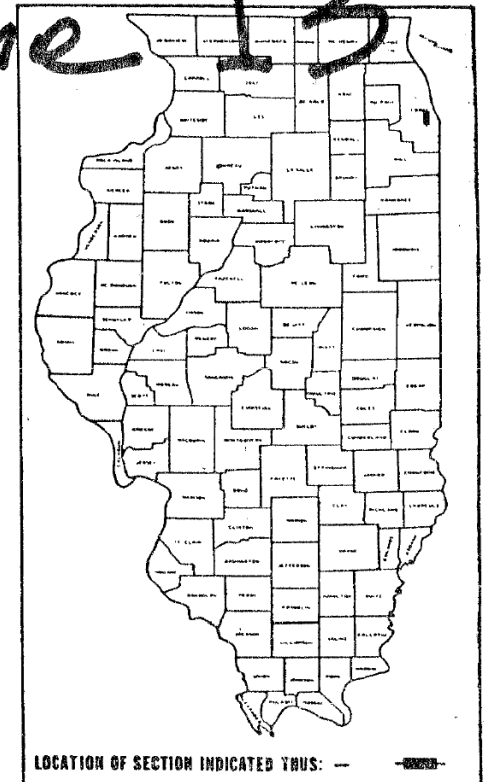
SCALES
PLAN 1 INCH = 4 FEET
PROFILE HORIZ. 1 INCH = 4 FEET
PROFILE VERT. 1 INCH = 4 FEET
CROSS SECTIONS 1 INCH = 4 FEET HORIZONTAL
1 INCH = 4 FEET VERTICAL

VOLUME NO. 13

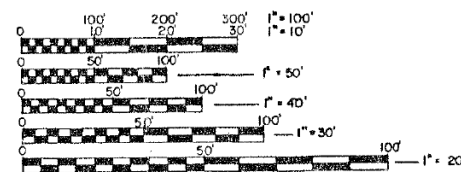
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R
PROJECT

COOK COUNTY

~~C-91-430-85~~
NORTHBOUND MAINLINE RECONSTRUCTION
28TH ST. TO MAXWELL ST.

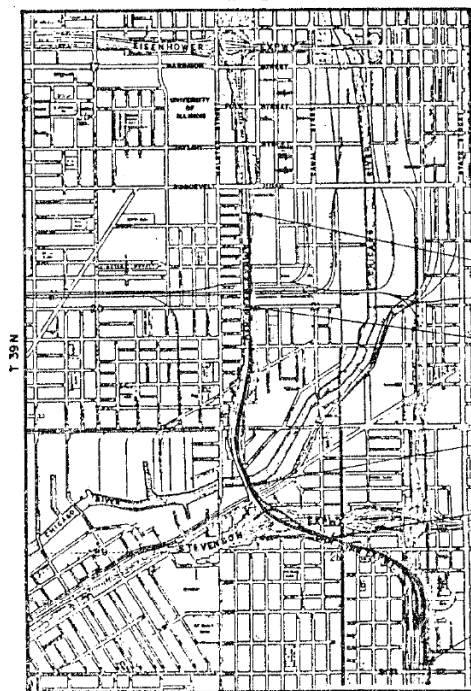


DESIGN DESIGNATION



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CONTRACT NO. 80065



END STA. 183+87.100
STA. EQ. 183+87.10 (BK.) + STA. 183+13.36 (AH.)

STA. EQ. 165+08.800 (BK.) + STA. 164+94.890 (AH.)

STA. EQ. 122+01.688 (BK.) + STA. 123+47.028 (AH.)

STA. EQ. 103+85.412 (BK.) + STA. 103+85.570 (AH.)

BEGIN STA. 63+20.000

SHEET 61 OF 3

NET LENGTH = 11,934 FT. = 2.260 MILES
GROSS LENGTH = 11,934 FT. = 2.260 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: _____ DATE: _____

REVISIONS: _____

DISTRICT ENGINEER

PREPARED: _____

ENGINEER OF PLANS AND CONTRACTS

APPROVED: _____

CONTRACTOR OF RECORD

DIVISION ENGINEER OF DESIGN

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

DIVISION ENGINEER _____ DATE _____

COUNTY COOK SECTION 1985-077 R ROUTE 90/94 (DAN RYAN EXPRESSWAY)



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO. AS13-57 OF AS13-82 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2015-019R	COUNTY COOK	TOTAL SHEETS 2155	SHEET NO. 1552
CONTRACT NO. 62A76				

ILLINOIS FED. AID PROJECT

FILE NAME: D:\V\AECOM-NA-AW51\arecomonline\local\AECOM_DS02_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Sign_Structures\62A76_Span-SS229-Extrplans.dgn

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FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	88	2
STA.		TO STA.		
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		
# 1985 - 077 B-R				

INDEX OF SHEETS

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TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
JACK AND SHIM EXISTING LOW BEARINGS	EACH	10
JACK AND REPLACE BEARINGS	EACH	529
ANCHOR BOLT ASSEMBLIES	EACH	402
SIDE RETAINER REPAIRS - BEARINGS	EACH	19
ANCHOR BOLT REPAIRS	EACH	74
ADJUST AND REPOSITION BEARINGS	EACH	4
STRUCTURE REPAIR.	LBS.	170,100
CLASS "X" CONCRETE - FOUNDATION	C.Y.	181.2
REINFORCEMENT BARS	LBS	26270
STRUCTURE EXCAVATION	C.Y.	9303
CASSION SHAFT (2'-6" dia)	C.FI.	3627
FURNISH & INSTALL SHIM PLATES	LBS.	850

SHEET 62 OF 3

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-077 B-R- COOK COUNTY
 NB MAINLINE RECONSTRUCTION
 VOL I/II NO 13
 INDEX OF SHEETS
 AND TOTAL BILL OF MATERIAL

Scale: NONE
 Date: AUGUST, 1988
 Drawn By: SAF
 Checked By: WPK
 ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

FILE NAME: D:\VAE\COM-NA-AW51\recomonline\local\AECOM_ID502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Sign_Structures\62A76-Sign_Structures\62A76-Span-55229-Exftplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAL JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAL JJS	REVISED -

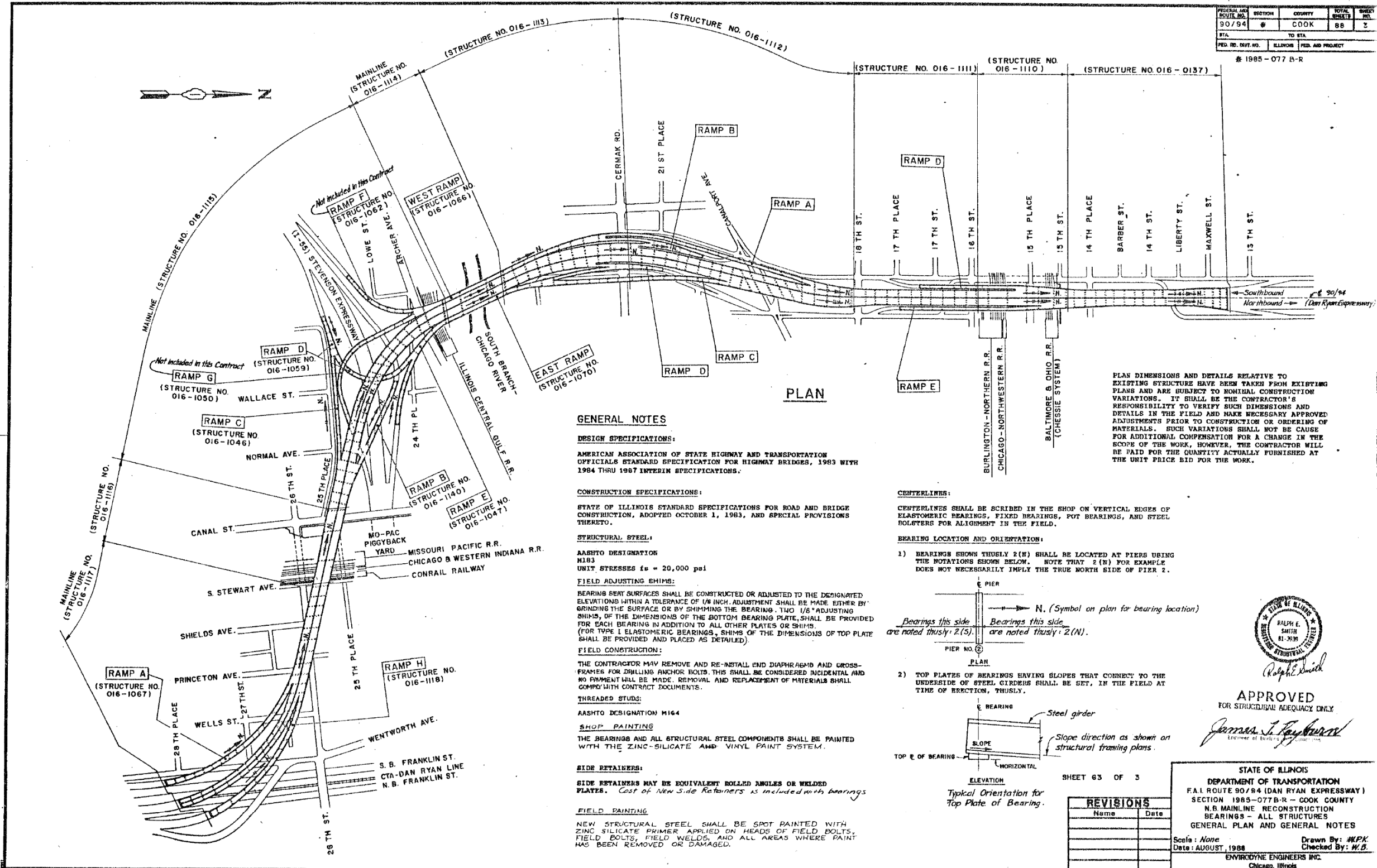
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-58 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1553
CONTRACT NO. 62A76			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY



FEDERAL AID DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	#	COOK	88	2
STA.	TO STA.		PROJECT	
			# 1985-077 B-R	

PLAN

GENERAL NOTES

DESIGN SPECIFICATIONS:
 AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, 1983 WITH 1984 THRU 1987 INTERIM SPECIFICATIONS.

CONSTRUCTION SPECIFICATIONS:
 STATE OF ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED OCTOBER 1, 1983, AND SPECIAL PROVISIONS THERETO.

STRUCTURAL STEEL:
 AASHTO DESIGNATION M183
 UNIT STRESSES $f_u = 20,000$ psi

FIELD ADJUSTING SHIMS:
 BEARINGS SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF 1/8 INCH. ADJUSTMENT SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHIMMING THE BEARING. TWO 1/8" ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS. (FOR TYPE 1 ELASTOMERIC BEARINGS, SHIMS OF THE DIMENSIONS OF TOP PLATE SHALL BE PROVIDED AND PLACED AS DETAILED).

FIELD CONSTRUCTION:
 THE CONTRACTOR MAY REMOVE AND RE-INSTALL END DIAPHRAGMS AND CROSS-FRAMES FOR DRILLING ANCHOR BOLTS. THIS SHALL BE CONSIDERED INCIDENTAL AND NO PAYMENT WILL BE MADE. REMOVAL AND REPLACEMENT OF MATERIALS SHALL COMPLY WITH CONTRACT DOCUMENTS.

THREADED STUDS:
 AASHTO DESIGNATION M164

SHOP PAINTING
 THE BEARINGS AND ALL STRUCTURAL STEEL COMPONENTS SHALL BE PAINTED WITH THE ZINC-SILICATE AND VINYL PAINT SYSTEM.

SIDE RETAINERS:
 SIDE RETAINERS MAY BE EQUIVALENT ROLLED ANGLES OR WELDED PLATES. Cost of New Side Retainers is included with bearings.

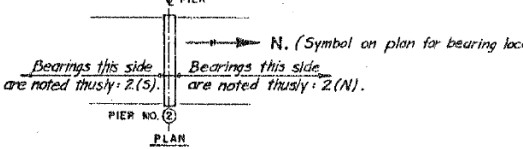
FIELD PAINTING
 NEW STRUCTURAL STEEL SHALL BE SPOT PAINTED WITH ZINC SILICATE PRIMER APPLIED ON HEADS OF FIELD BOLTS, FIELD BOLTS, FIELD WELDS, AND ALL AREAS WHERE PAINT HAS BEEN REMOVED OR DAMAGED.

CENTERLINES:

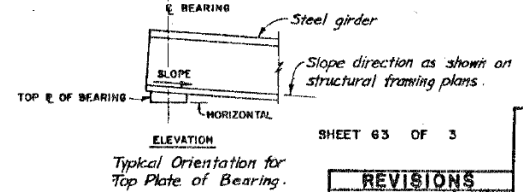
CENTERLINES SHALL BE SCRIBED IN THE SHOP ON VERTICAL EDGES OF ELASTOMERIC BEARINGS, FIXED BEARINGS, POT BEARINGS, AND STEEL BOLSTERS FOR ALIGNMENT IN THE FIELD.

BEARING LOCATION AND ORIENTATION:

- BEARINGS SHOWN THUSLY 2(N) SHALL BE LOCATED AT PIERS USING THE NOTATIONS SHOWN BELOW. NOTE THAT 2(N) FOR EXAMPLE DOES NOT NECESSARILY IMPLY THE TRUE NORTH SIDE OF PIER 2.



- TOP PLATES OF BEARINGS HAVING SLOPES THAT CONNECT TO THE UNDERSIDE OF STEEL GIRDERS SHALL BE SET, IN THE FIELD AT TIME OF ERECTION, THUSLY.



PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO MINIMAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.



APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
 James J. Rayburn
 Engineer of Bridge Structures

REVISIONS	
Name	Date

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-077B-R - COOK COUNTY
 N.R. MAINLINE RECONSTRUCTION
 BEARINGS - ALL STRUCTURES
 GENERAL PLAN AND GENERAL NOTES
 Scale: None
 Date: AUGUST, 1988
 Drawn By: HFK
 Checked By: W.B.
 ENVIRONMENTAL ENGINEERS INC.
 Chicago, Illinois

FILE NAME: D:\VAE\COM-NA-AWS1\arcocom\line\local\AE\COM_D502_NAV\Documents\01_Americas\Transportation\60269938_Circle\Phase_CAD\008_Structural\Sign_Structures\62A76_Sign_Structures\62A76-Span-55229-Exftplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110

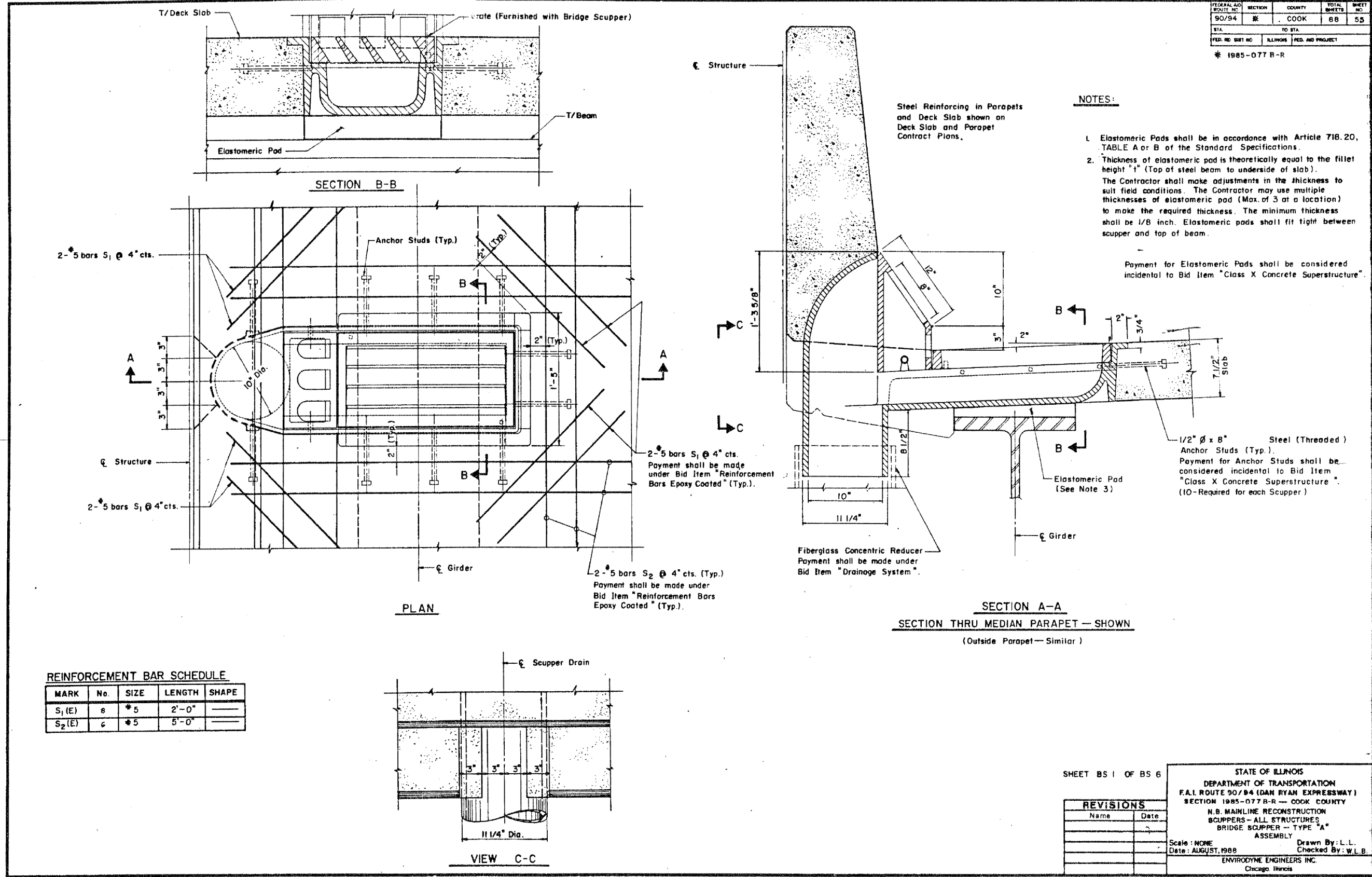
SHEET NO. AS13-59 OF AS13-82 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1554
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1A	COOK	88	53
STA.	TO STA.			
FED. AID DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 1985-077 B-R



SHEET BS 1 OF BS 6

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R - COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
SCUPPERS - ALL STRUCTURES
BRIDGE SCUPPER - TYPE "A"
ASSEMBLY

REVISIONS	
Name	Date

Scale: NONE
Date: AUGUST, 1988
Drawn By: L.L.
Checked By: W.L.B.
ENVIRODYNE ENGINEERS INC.
Chicago Illinois

FILE NAME: D:\V\AECOM-NA-AW51\recomonline\local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76-Span-SS229-Extr\plans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

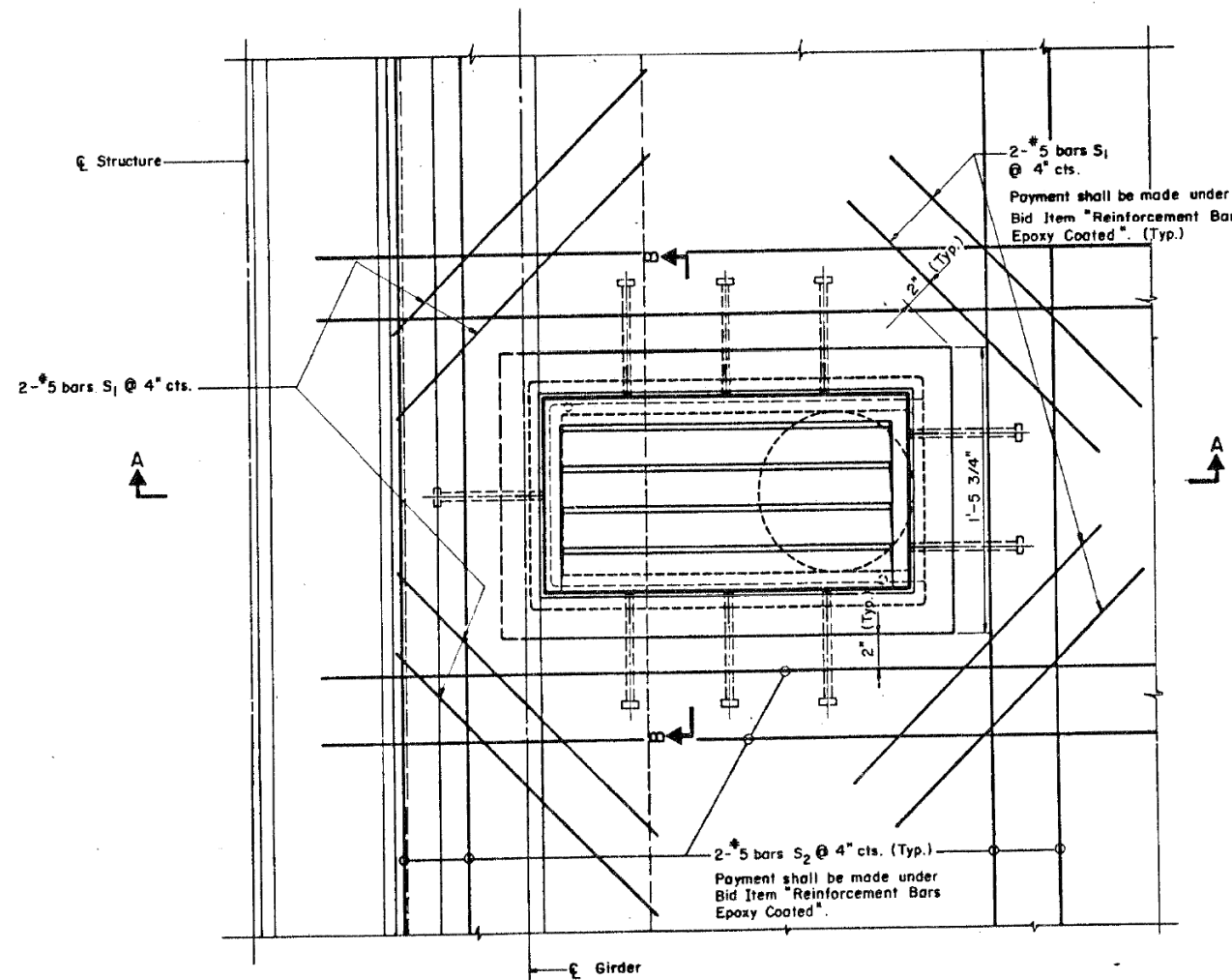
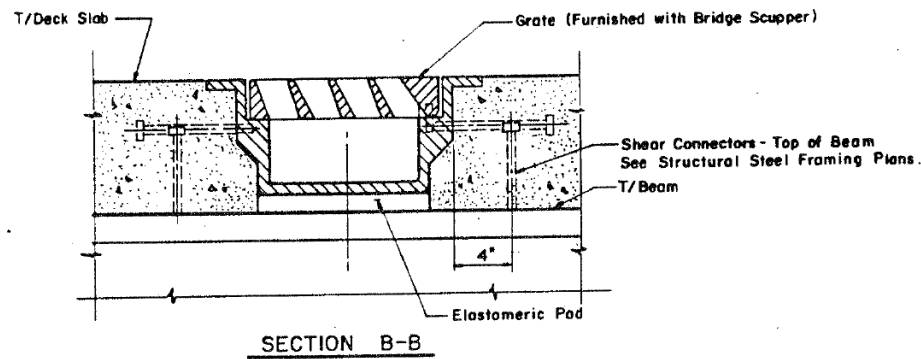
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STRUCTURE NO. 016-1110

SHEET NO.AS13-60 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1555
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

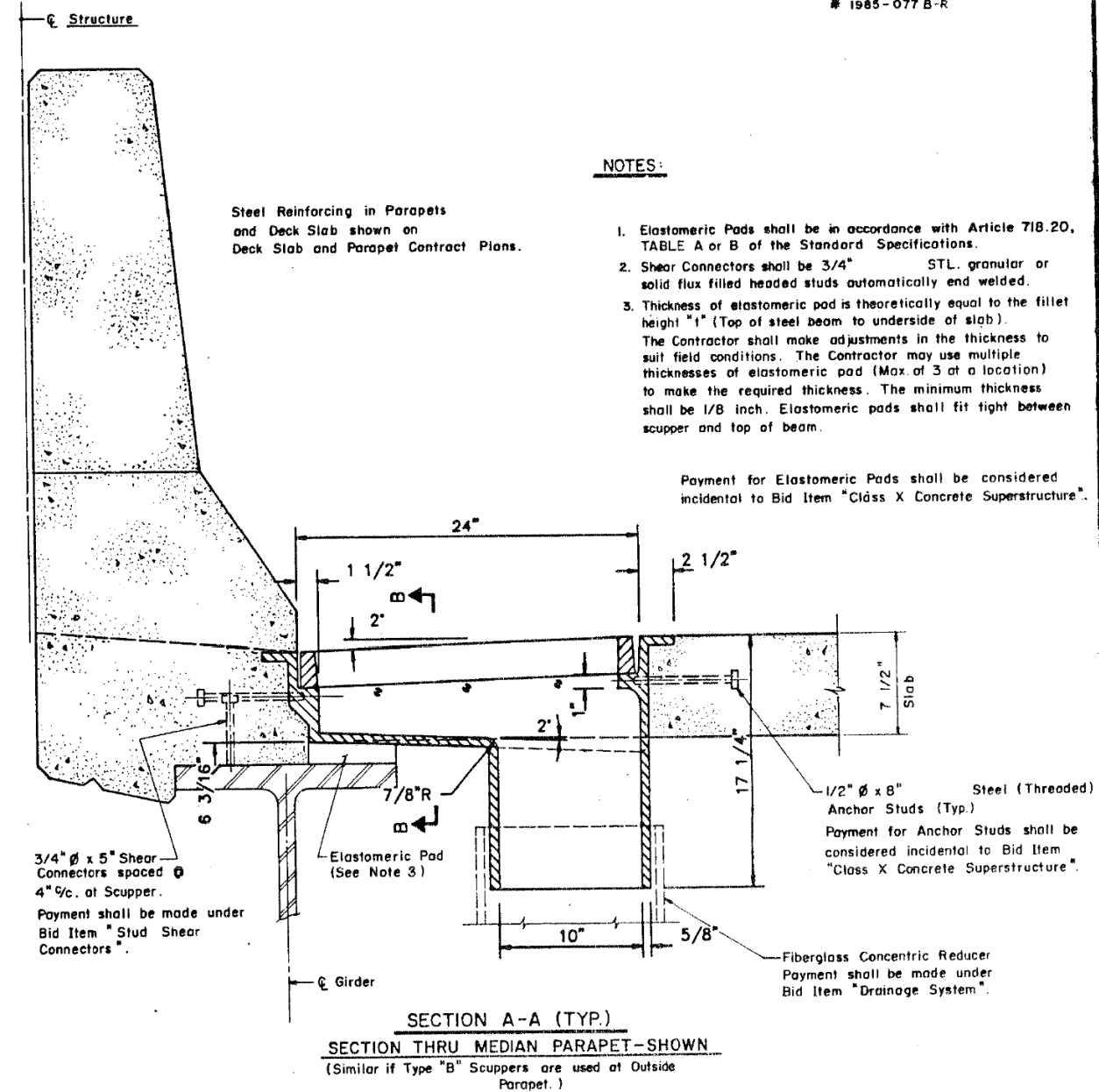
FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	8	COOK	88	56
S1A		TO STA.		
FED. NO. DIST. NO.	ALTERN.	FED. AID PROJECT		
# 1985-077 B-R				



REINFORCEMENT BAR SCHEDULE

MARK	No.	SIZE	LENGTH	SHAPE
S ₁ (E)	8	#5	2'-0"	—
S ₂ (E)	8	#5	5'-0"	—



NOTES:

- Elastomeric Pads shall be in accordance with Article 718.20, TABLE A or B of the Standard Specifications.
- Shear Connectors shall be 3/4" STL granular or solid flux filled headed studs automatically end welded.
- Thickness of elastomeric pad is theoretically equal to the fillet height "1" (Top of steel beam to underside of slab). The Contractor shall make adjustments in the thickness to suit field conditions. The Contractor may use multiple thicknesses of elastomeric pad (Max of 3 at a location) to make the required thickness. The minimum thickness shall be 1/8 inch. Elastomeric pads shall fit tight between scupper and top of beam.

Payment for Elastomeric Pads shall be considered incidental to Bid Item "Class X Concrete Superstructure".

1/2" ϕ x 8" Steel (Threaded) Anchor Studs (Typ.)
Payment for Anchor Studs shall be considered incidental to Bid Item "Class X Concrete Superstructure".

Fiberglass Concentric Reducer
Payment shall be made under Bid Item "Drainage System".

SHEET BS 2 OF BS 6

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R - COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
SCUPPERS - ALL STRUCTURES
BRIDGE SCUPPER - TYPE "B"
ASSEMBLY

Scale: NONE
Date: AUGUST, 1988
Checked By: W.L.B.
Drawn By: L.L.L.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1556
CONTRACT NO. 62A76				

SHEET NO. AS13-61 OF AS13-82 SHEETS

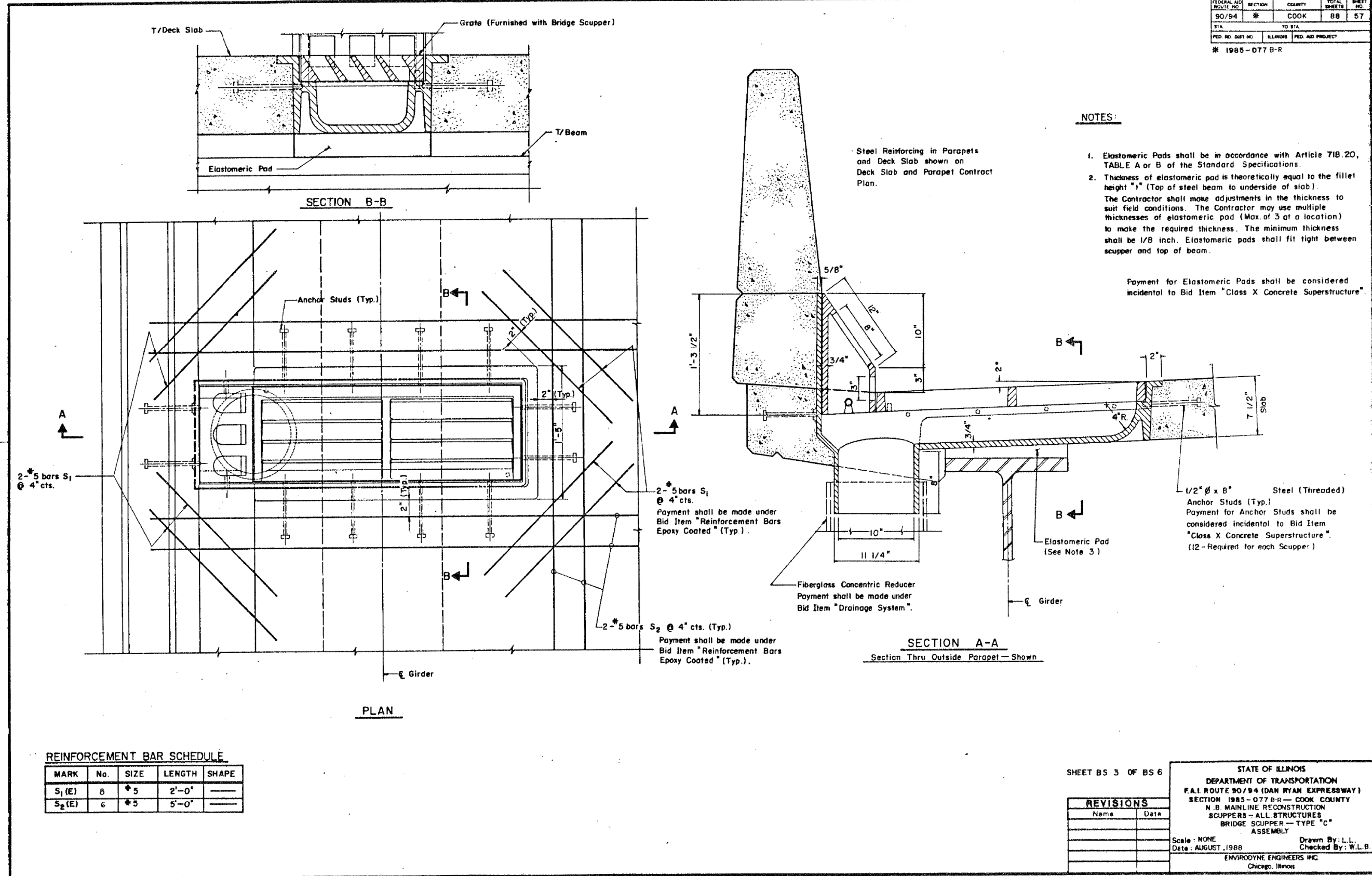
ILLINOIS FED. AID PROJECT



USER NAME =	francisco.lopez	DESIGNED -	JMI	REVISED -	
CHECKED -	MAI, JJS	REVISIONS -			
PLOT SCALE =	N.T.S	DRAWN -	JMI	REVISED -	
PLOT DATE =	1/24/2020	CHECKED -	MAI, JJS	REVISED -	

FOR INFORMATION ONLY

FEDERAL AID DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	#	COOK	88	57
STA.	TO STA.			
FED. DIST. NO.		ILLINOIS	FED. AID PROJECT	
# 1985-077 B-R				



- NOTES:**
- Elastomeric Pads shall be in accordance with Article 718.20, TABLE A or B of the Standard Specifications.
 - Thickness of elastomeric pad is theoretically equal to the fillet height "f" (Top of steel beam to underside of slab). The Contractor shall make adjustments in the thickness to suit field conditions. The Contractor may use multiple thicknesses of elastomeric pad (Max. of 3 at a location) to make the required thickness. The minimum thickness shall be 1/8 inch. Elastomeric pads shall fit tight between scupper and top of beam.

Payment for Elastomeric Pads shall be considered incidental to Bid Item "Class X Concrete Superstructure".

2-#5 bars S₁ @ 4" cts.
Payment shall be made under Bid Item "Reinforcement Bars Epoxy Coated" (Typ.).

2-#5 bars S₂ @ 4" cts. (Typ.)
Payment shall be made under Bid Item "Reinforcement Bars Epoxy Coated" (Typ.).

1/2" Ø x B" Steel (Threaded) Anchor Studs (Typ.)
Payment for Anchor Studs shall be considered incidental to Bid Item "Class X Concrete Superstructure". (12 - Required for each Scupper)

Fiberglass Concentric Reducer
Payment shall be made under Bid Item "Drainage System".

REINFORCEMENT BAR SCHEDULE

MARK	No.	SIZE	LENGTH	SHAPE
S ₁ (E)	8	#5	2'-0"	—
S ₂ (E)	6	#5	5'-0"	—

SHEET BS 3 OF BS 6

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R— COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
SCUPPERS— ALL STRUCTURES
BRIDGE SCUPPER— TYPE "C"
ASSEMBLY

REVISIONS	
Name	Date

Scale: NONE
Date: AUGUST, 1988
Checked By: W.L.B.

Drawn By: L.L.
Checked By: W.L.B.

ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\VAE\COM-NA-AW51\recomonline\local\AECOM_D502_NA\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Sign_Structure\62A76-Span-SS229-Explan.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

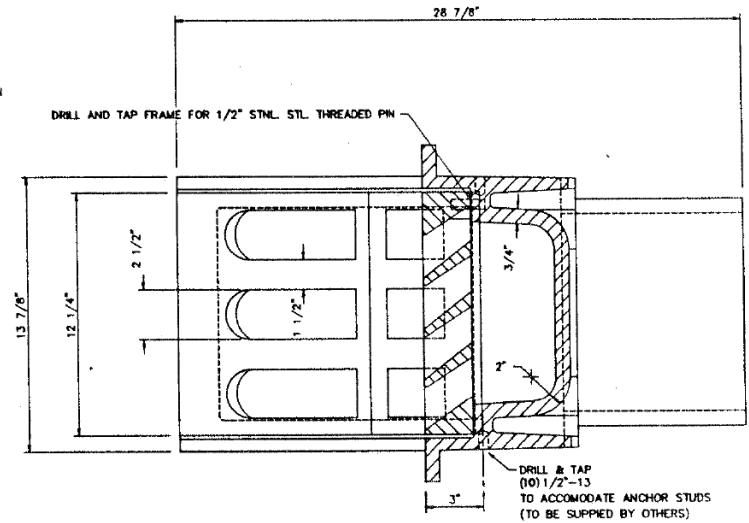
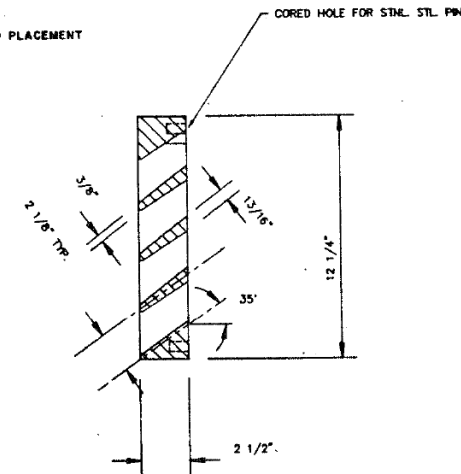
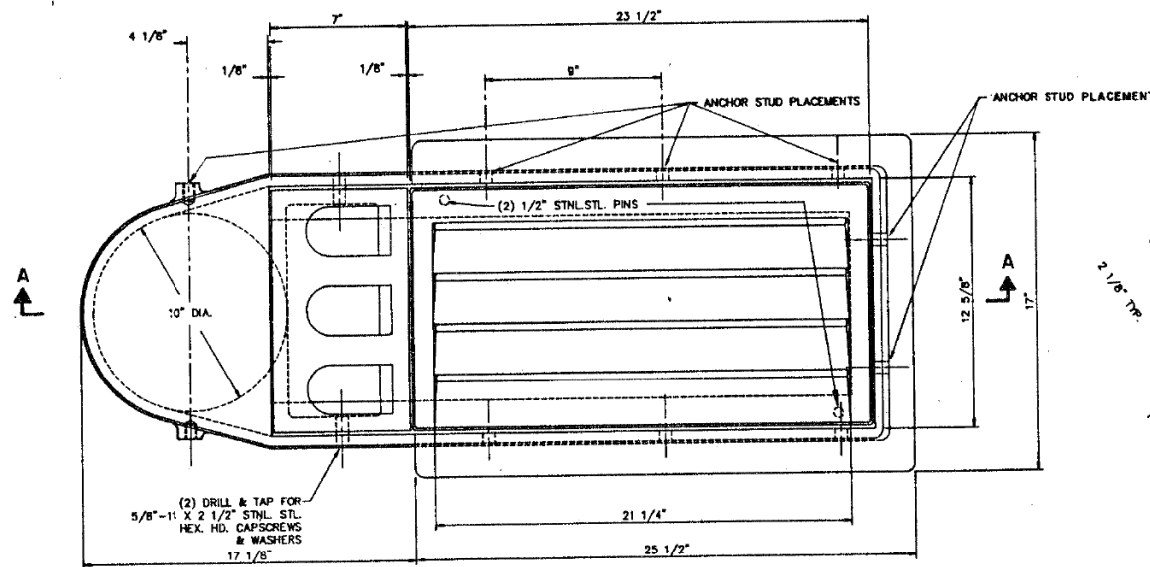
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO. AS13-62 OF AS13-82 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1557
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

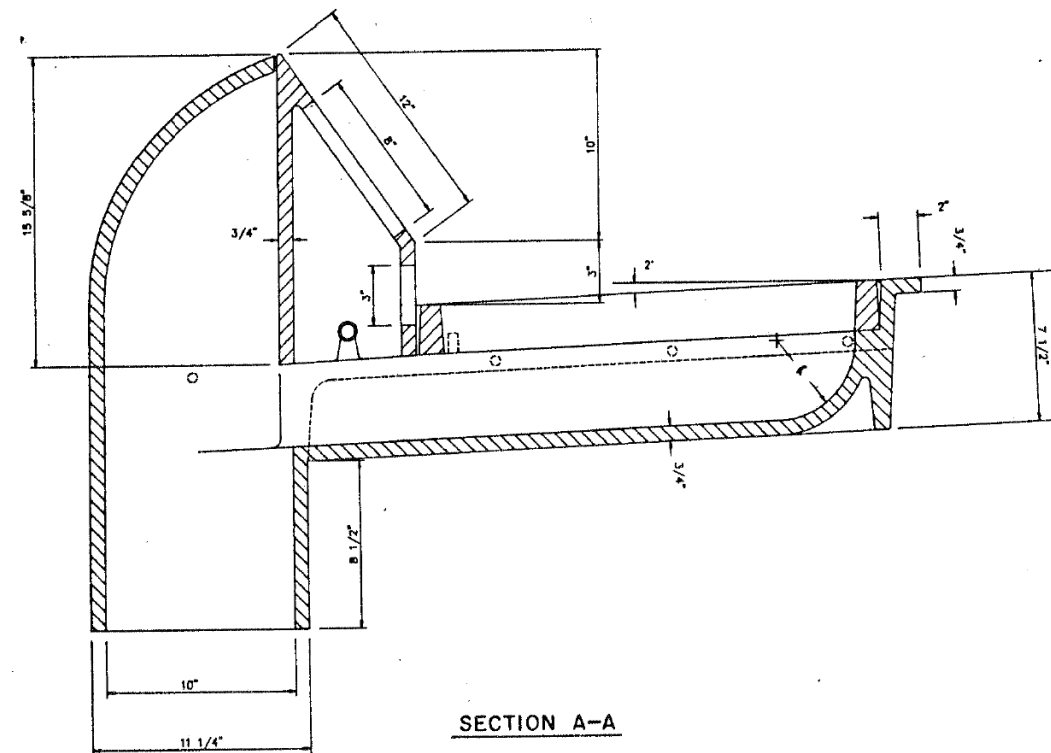
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	88	58
STA.	TO STA.			
FED. NO. DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 1985-077 B-R				



PLAN

BRIDGE SCUPPER - TYPE "A"

NF - 0332 445
ESTIMATED WEIGHT 512 #



SECTION A-A

SCHEDULE OF QUANTITIES	
STRUCTURE	No. REQUIRED
016-0137	10
016-1110	8
016-1111	11
016-1112	26
016-1113	5
016-1114	0
016-1070	0
016-1115	8
016-1140	2
016-1047	2
016-1116	8
016-1117	27
016-1118	2
TOTAL	107

ALL MATERIALS SHOWN ON THIS SHEET ARE FURNISHED UNDER A SEPARATE SUPPLY CONTRACT (SECTION 1988-004 I), UNLESS NOTED OTHERWISE.

MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NONE

SHEET BS 4 OF BS 6

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R - COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
SCUPPERS - ALL STRUCTURES
BRIDGE SCUPPER TYPE A
Scale: NONE
Date: AUGUST, 1988
Drawn By: R.E.P.
Checked By: W.P.K.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1558
CONTRACT NO. 62A76				

SHEET NO.AS13-63 OF AS13-82SHEETS

ILLINOIS FED. AID PROJECT

HBM
ENGINEERING GROUP, LLC

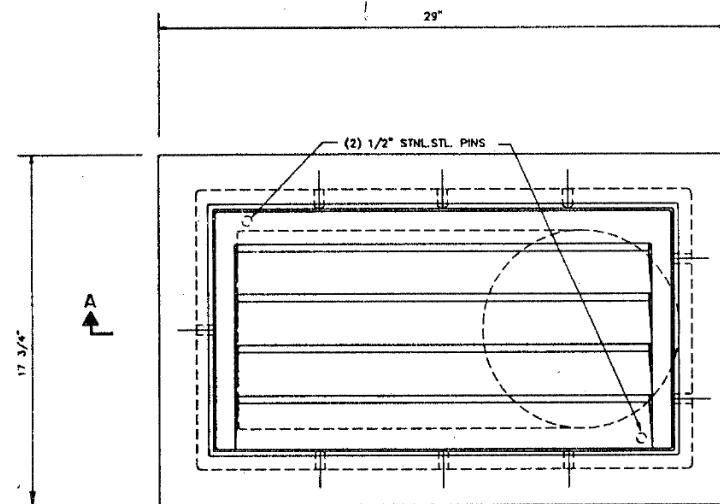
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PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

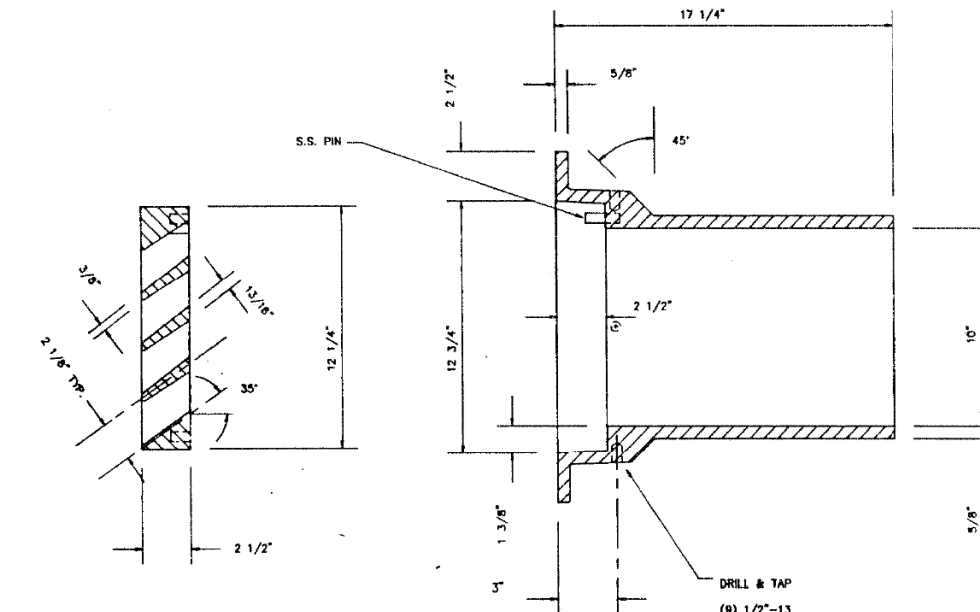
FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	68	59
ETA.	TO ETA.			
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 1985-077 B-R

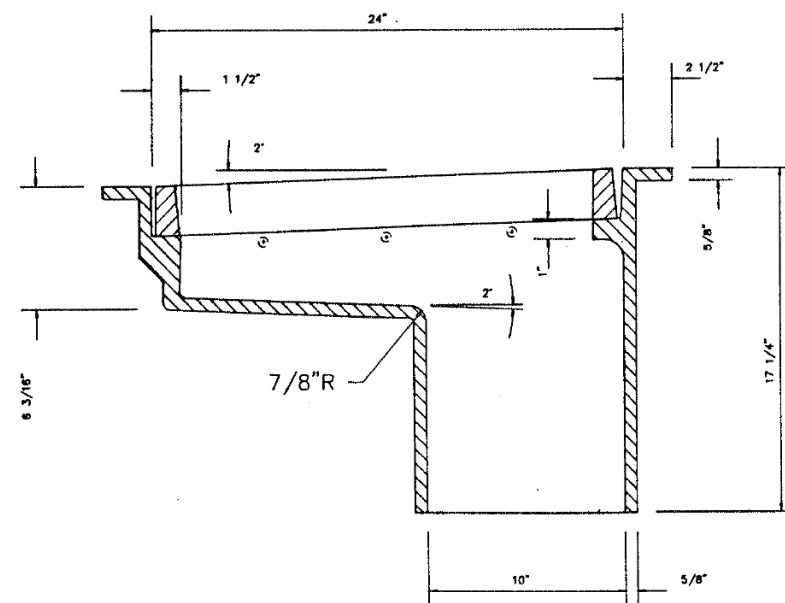


PLAN



DRILL & TAP
(8) 1/2"-13
TO ACCOMMODATE ANCHOR STUDS
(TO BE SUPPLIED BY OTHERS)

BRIDGE SCUPPER - TYPE "B"
NF-0332 435
ESTIMATED WEIGHT 235 *



SECTION A-A

SCHEDULE OF QUANTITIES

STRUCTURE	No. REQUIRED
016-0137	0
016-1110	0
016-1111	0
016-1112	1
016-1113	2
016-1114	10
016-1070	0
016-1115	3
016-1140	0
016-1047	0
016-1116	0
016-1117	7
016-1118	3
TOTAL	26

ALL MATERIALS SHOWN ON THIS SHEET ARE FURNISHED UNDER A SEPARATE SUPPLY CONTRACT (SECTION 1988-004 I), UNLESS NOTED OTHERWISE.

MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NONE

SHEET BS5 OF BS6

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R — COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
SCUPPERS - ALL STRUCTURES
BRIDGE SCUPPER TYPE B
Scale: NONE
Date: AUGUST, 1988
Checked By: W.P.K.
Drawn By: R.E.P.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\VAECOM-NA-AWS1\arcocomonline\local\VAECOM_ID502_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_CAD\008_Structural\Sign_Structures\62A76_Sign_Structure\62A76-Span-55229-ExRt\plans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

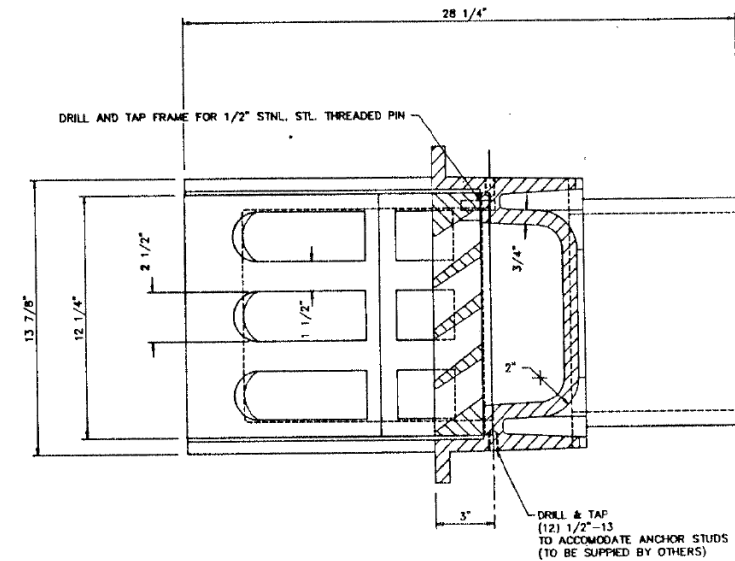
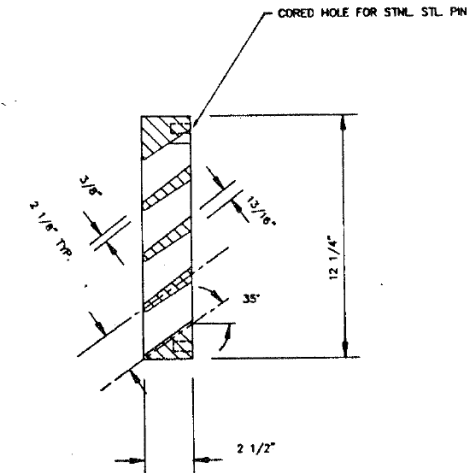
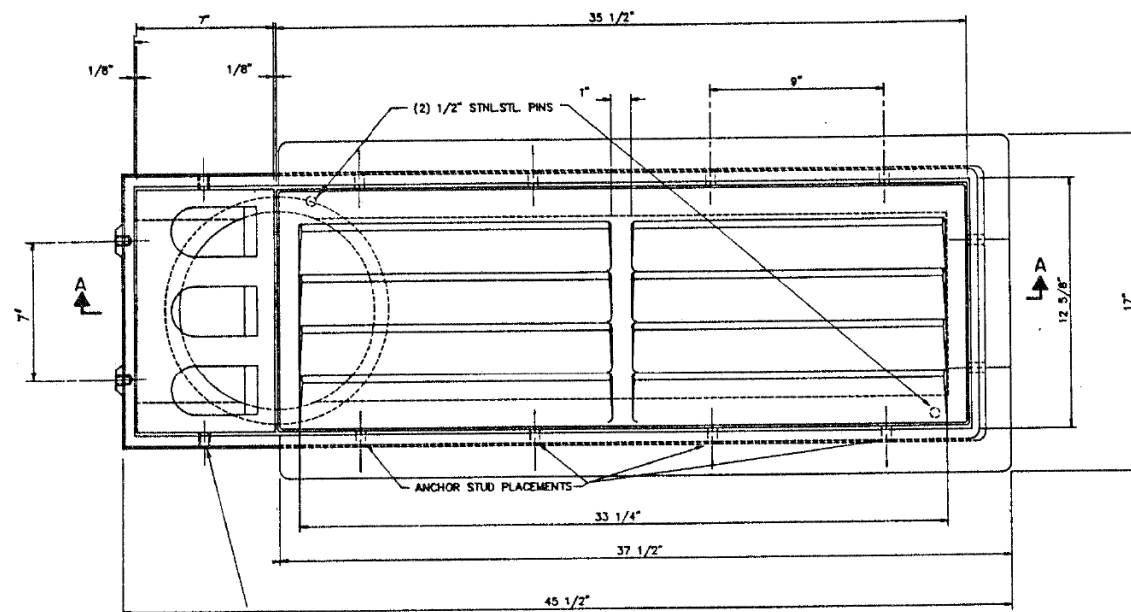
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-64 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1559
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

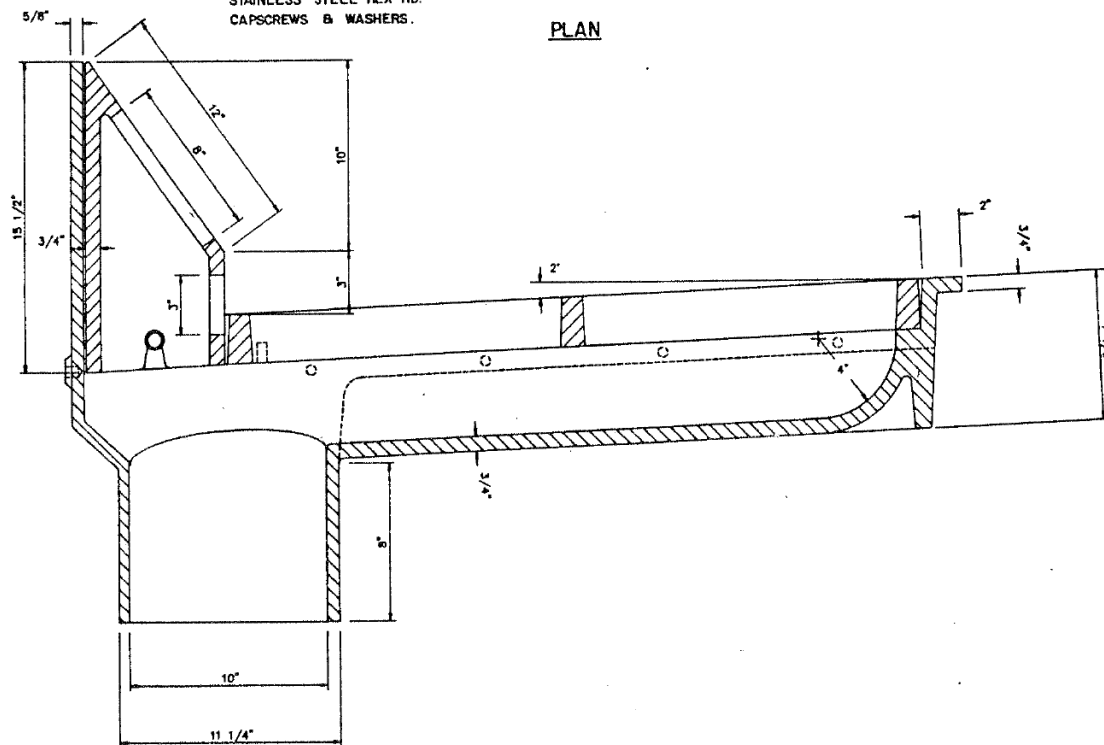
FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	88	60
STA.	TO STA.			
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		
*1985-077 B-R				



(2) DRILL & TAP FOR 5/8"-11x2 V2" STAINLESS STEEL HEX HD. CAPSCREWS & WASHERS.

PLAN



SECTION A-A

BRIDGE SCUPPER - TYPE "C"
NF - 0332 440
ESTIMATED WEIGHT 623*

SCHEDULE OF QUANTITIES	
STRUCTURE	No. REQUIRED
O16 - 0137	11
O16 - 1110	11
O16 - 1111	12
O16 - 1112	12
O16 - 1113	12
O16 - 1114	0
O16 - 1070	4
O16 - 1115	20
O16 - 1140	2
O16 - 1047	1
O16 - 1116	8
O16 - 1117	0
O16 - 1118	16
TOTAL	109

ALL MATERIALS SHOWN ON THIS SHEET ARE FURNISHED UNDER A SEPARATE SUPPLY CONTRACT (SECTION 1988-004 1), UNLESS NOTED OTHERWISE.

MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NONE

SHEET BS6 OF BS6

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R - COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
SCUPPERS - ALL STRUCTURES
BRIDGE SCUPPER TYPE C
Scale: NONE
Date: AUGUST, 1988
Drawn By: R.E.P.
Checked By: W.P.K.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\VAECOM-NA-AWS1\recomonline\local\AECOM_D502_NADocuments\01_Americas\Transportation\60269938_Circle\Phase_II\000_CAD\008_Structural\Sign_Structures\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

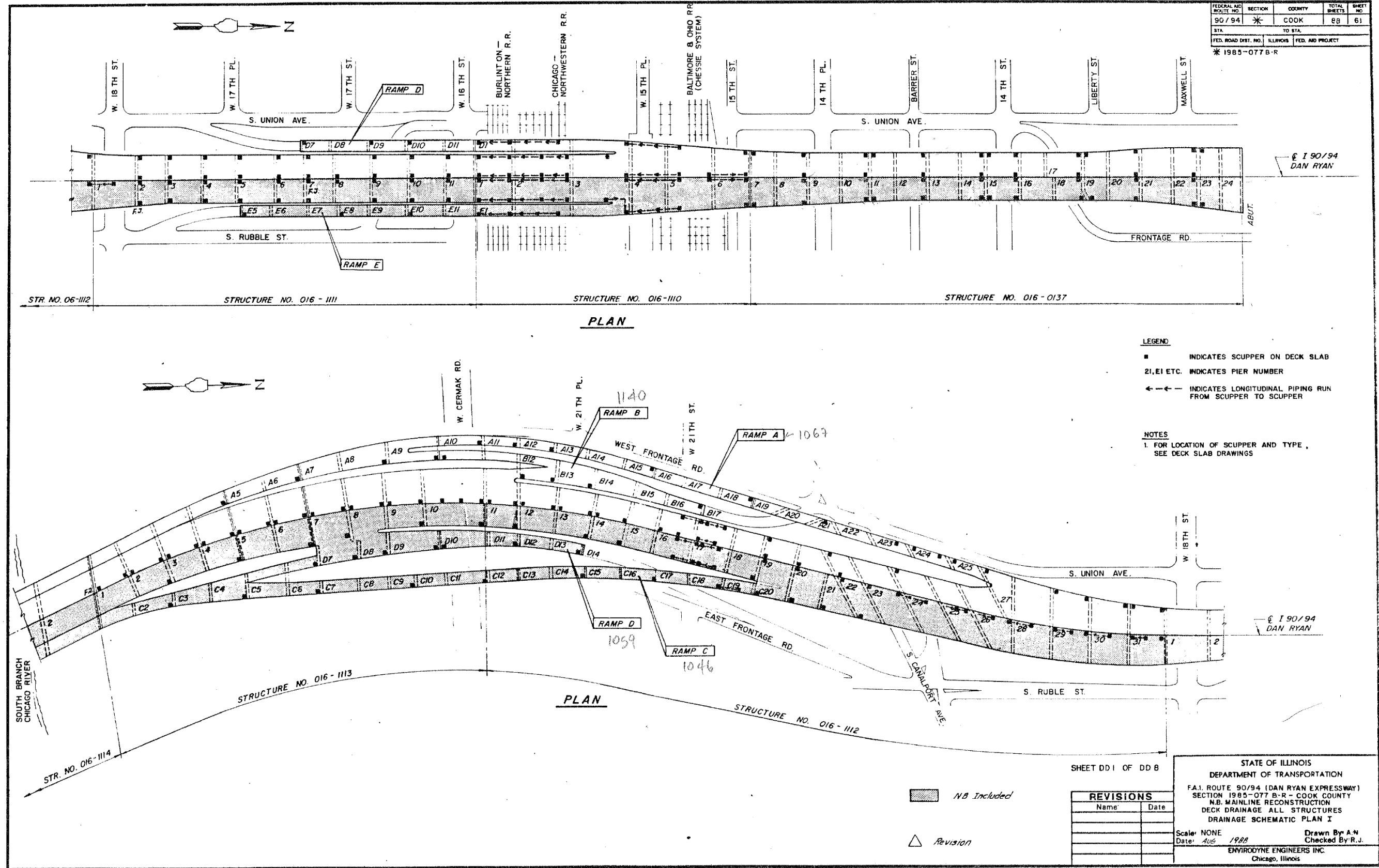
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-65 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1560
CONTRACT NO. 62A76				
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY



FEDERAL RD. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	88	61
STA. TO STA.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 1985-077 B-R				

SHEET DD 1 OF DD 8

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R - COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
DECK DRAINAGE ALL STRUCTURES
DRAINAGE SCHEMATIC PLAN I

REVISIONS	
Name	Date

Scale: NONE
Date: 4/05 1988
Drawn By: A-N
Checked By: R.J.

ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\VAECOM-NA-AW51\recomonline\local\VAECOM_D502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Sign_Structures\62A76-Span-55229-Extr\plans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

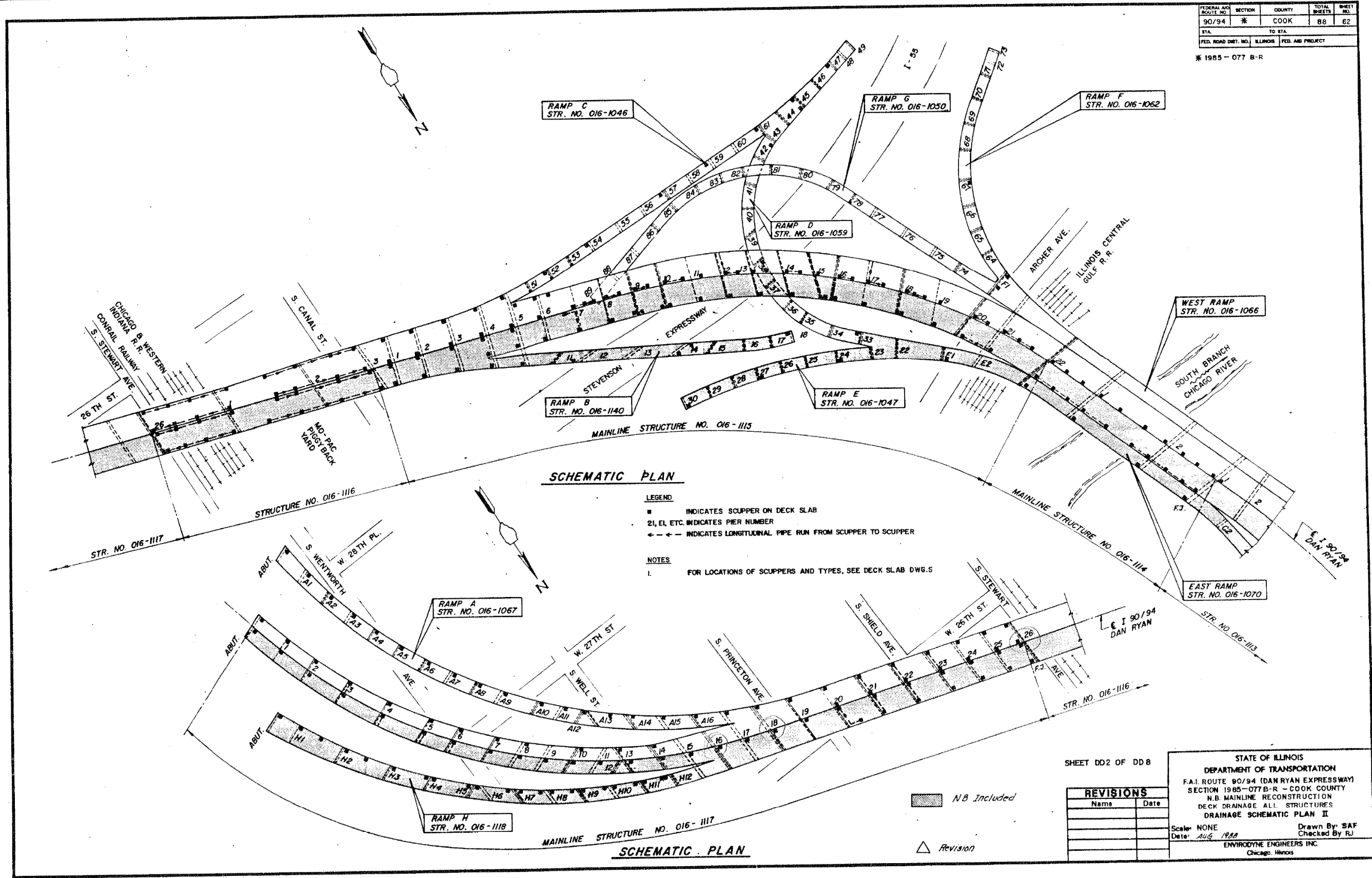
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1561
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

SHEET NO. AS13-66 OF AS13-82 SHEETS

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	88	62
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 1985-077 B-R				



SCHEMATIC PLAN

- LEGEND**
- INDICATES SCUPPER ON DECK SLAB
 - 21, E1, ETC. INDICATES PIER NUMBER
 - ← ← ← INDICATES LONGITUDINAL PIPE RUN FROM SCUPPER TO SCUPPER
- NOTES**
- FOR LOCATIONS OF SCUPPERS AND TYPES, SEE DECK SLAB DWG.6

SHEET DD2 OF DD8

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077B-R - COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
DECK DRAINAGE ALL STRUCTURES
DRAINAGE SCHEMATIC PLAN II

Scale: NONE
Date: AUG 1988

Drawn By: SAF
Checked By: RJ

ENVIRODYNE ENGINEERS INC.
Chicago, Illinois



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

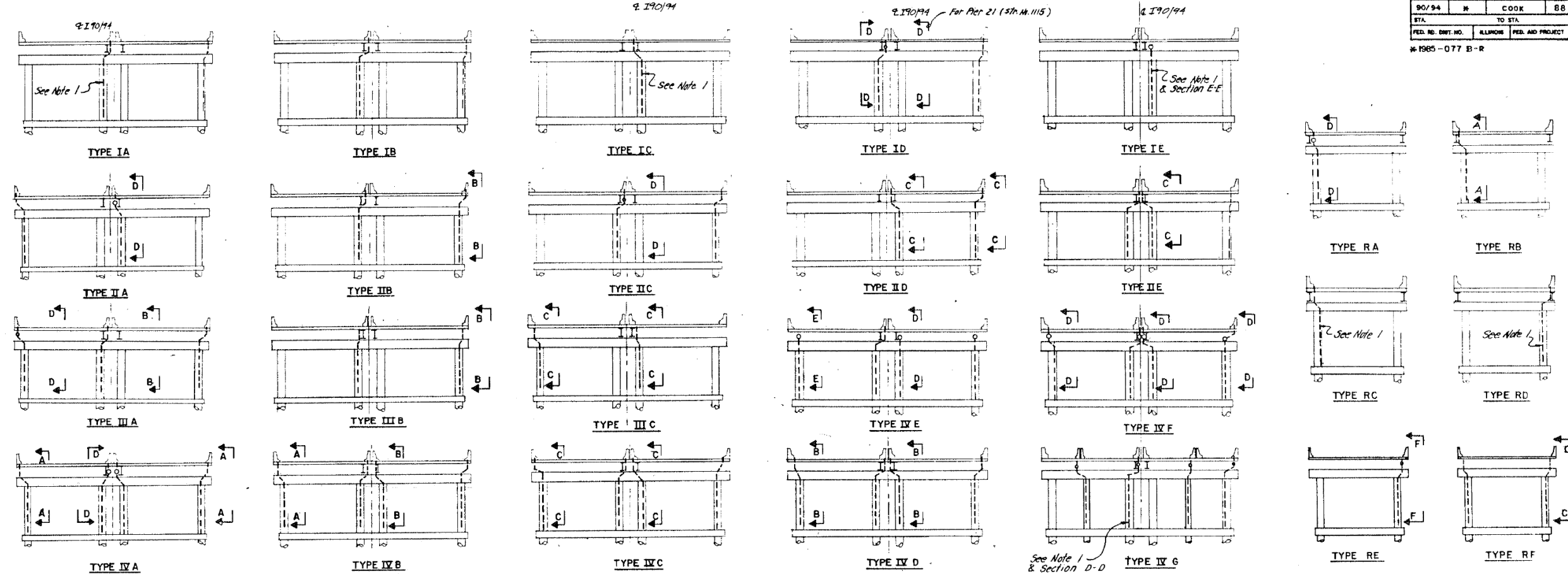
SHEET NO.AS13-67 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1562
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

FILE NAME: D:\VAECOM-NA-AW51\recomonline\local\AECOM_D502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76_Sign_Structure\62A76-Span-55229-Extrplans.dgn

FOR INFORMATION ONLY

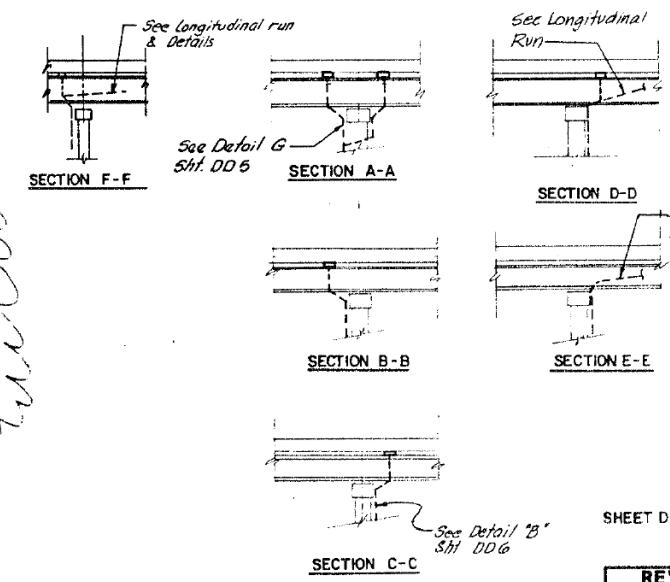
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	#	COOK	88	E3
STA.	TO STA.			
FED. NO. DIST. NO.	ALLIANCE	FED. AID PROJECT		
# 1985-077 B-R				



DOWNSPOUTS AT PIER ELEVATIONS
Mainline Looking Upstation

Note 1:
For Downspout at near side or far side of Pier see Drainage Schematic Plans.

STR. NO.	PIER NO.	TYPE FIGURE	STR. NO.	PIER NO.	TYPE FIGURE	STR. NO.	PIER NO.	TYPE FIGURE	STR. NO.	PIER NO.	TYPE FIGURE	STR. NO.	PIER NO.	TYPE FIGURE	STR. NO.	PIER NO.	TYPE FIGURE	STR. NO.	PIER NO.	TYPE FIGURE			
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25	25	IV B	25	25	IV B	25	25	IV B	25	25	IV B	25	25	IV B	25	25	IV B	25	25	IV B	25	25	IV B
1	1	IV F	1	1	IV F	1	1	IV F	1	1	IV F	1	1	IV F	1	1	IV F	1	1	IV F	1	1	IV F
4	4	IV F	4	4	IV F	4	4	IV F	4	4	IV F	4	4	IV F	4	4	IV F	4	4	IV F	4	4	IV F
14	14	IV C	14	14	IV C	14	14	IV C	14	14	IV C	14	14	IV C	14	14	IV C	14	14	IV C	14	14	IV C
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DOWNSPOUTS AT PIER ELEVATIONS
Ramps Looking Upstation

NOTES:
For longitudinal run and details, see sheet DD5 & DD8.
For steel Pier and Details see Sht. DD4

SHEET DD3 OF DD8

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R-COOK COUNTRY
N.B. MAINLINE RECONSTRUCTION
DECK DRAINAGE - ALL STRUCTURES
DOWNSPOUTS AT CONCRETE PIER

Scale: NONE
Date: 10/5, 1988
Drawn By: S.A.F.
Checked By: R.J.
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\V\AE\COM-NA-AW51_recomonline\local\AE\COM_D502_NAV\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1563
				CONTRACT NO. 62A76
		ILLINOIS	FED. AID PROJECT	

SHEET NO. AS13-68 OF AS13-82 SHEETS

FOR INFORMATION ONLY

FEDERAL AID DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	M	COOK	88	64
STA.		TO STA.		
FED. NO. DIST. NO.		ILLINOIS	FED. AID PROJECT	
M-1985-077 B-R				

FIGURE IA **FIGURE IB** **FIGURE IC** **FIGURE ID** **FIGURE IF**

FIGURE IIA **FIGURE IIB** **FIGURE IIC** **FIGURE IID**

FIGURE IIE **FIGURE IIF** **FIGURE IIG** **FIGURE IIH**

FIGURE SA **FIGURE SB** **FIGURE SC**

DOWNSPOUTS AT STEEL PIER ELEVATIONS
MAINLINE LOOKING UPSTATION

DOWNSPOUTS AT STEEL PIER ELEVATIONS
RAMPS LOOKING UPSTATION

DETAIL "A" **DETAIL "B"** **DETAIL "C"** **DETAIL "D"** **DETAIL "E"** **DETAIL "F"** **DETAIL "G"** **DETAIL "H"**

NOTES:
 For Pipe Bracket (P.B.) Details see Typical Detail Sht. DD8.
 For Longitudinal Runs see Shts. DD5 & DD8.
 Minimum slope on any run of pipe shall be 1/8"ft. unless noted.

REVISIONS

Name	Date

SHEET DD 4 OF DD 8

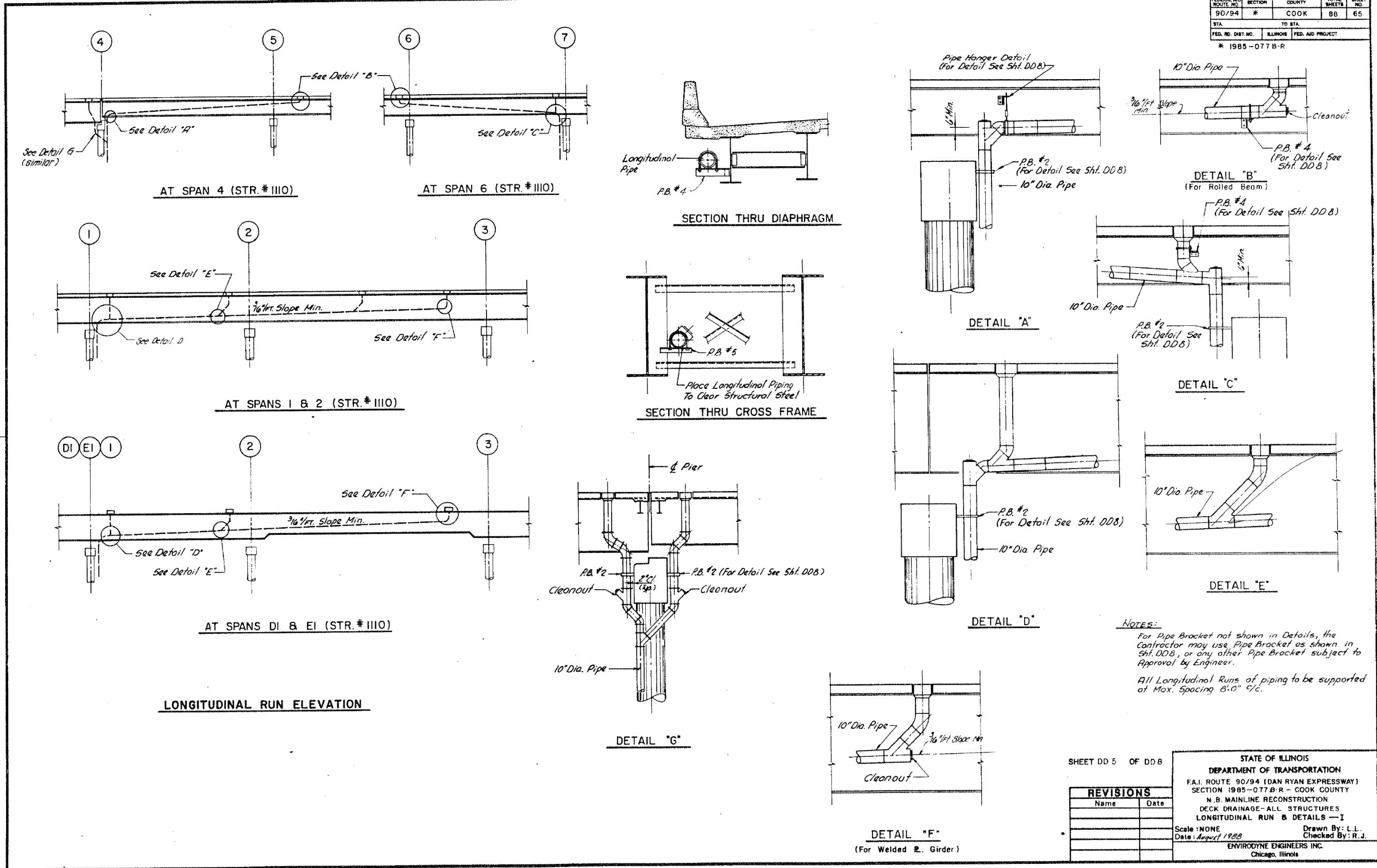
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 FAI ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-077 B-R - COOK COUNTY
 N.B. MAINLINE RECONSTRUCTION
 DECK DRAINAGE - ALL STRUCTURES
 DOWNSPOUTS AT STEEL PIER

Scale: NONE
 Date: August 1988
 Drawn By: SAF
 Checked By: RJ
 ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

FILE NAME: D:\VAE\COM-NA-AWS1\ecomonline\local\AECOM_ID502_NAVDocuments\01_Americas\Transportation\620269938_Circle\Phase_I\CAD\008_Structural\Sgn_Structure\62A76-Sign_Structure\62A76-Span-SS229-Exstplans.dgn

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	#	COOK	88	65
STA.	TO STA.			
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		
		* 1985-077 B-R		



SHEET DD 5 OF DD 8

REVISIONS	
Name	Date

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-077 B-R - COOK COUNTY
 N.B. MAINLINE RECONSTRUCTION
 DECK DRAINAGE-ALL STRUCTURES
 LONGITUDINAL RUN & DETAILS - I

Scale: NONE
 Date: August 1988

Drawn By: L.L.
 Checked By: R.J.

ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

FILE NAME: D:\V\AECOM-NA-AW51\recomonline\local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

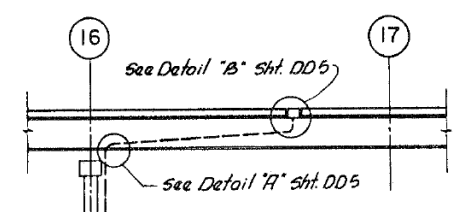
EXISTING RECORD DRAWINGS
 STRUCTURE NO. 016-1110

SHEET NO.AS13-70 OF AS13-82SHEETS

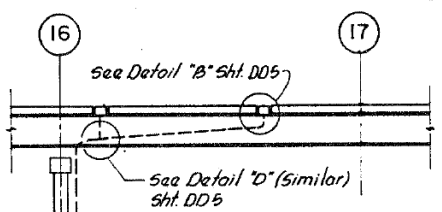
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1565
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

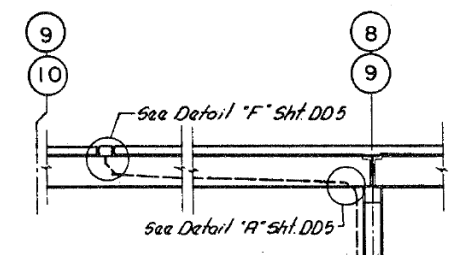
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	88	66
STA.	TO STA.			
FED. DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 1985-077 B-R				



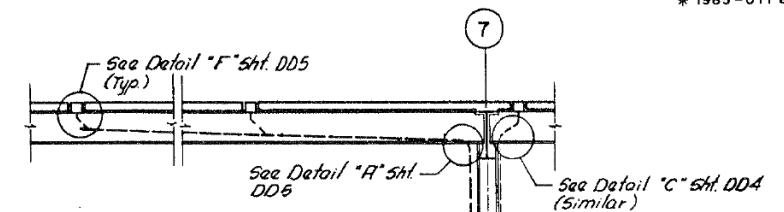
AT SPAN 16 (STR # 1112)
AT SPAN 25 (STR # 1112)



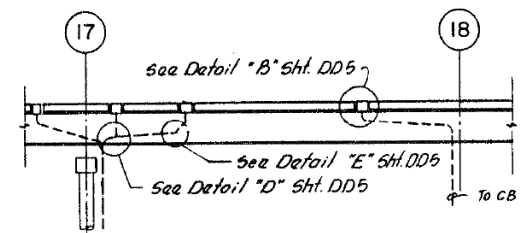
AT SPAN 26 (STR # 1112)



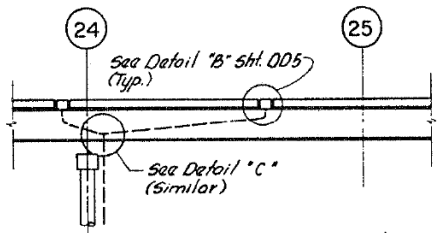
AT SPAN 8 & 9 (STR # 1115)



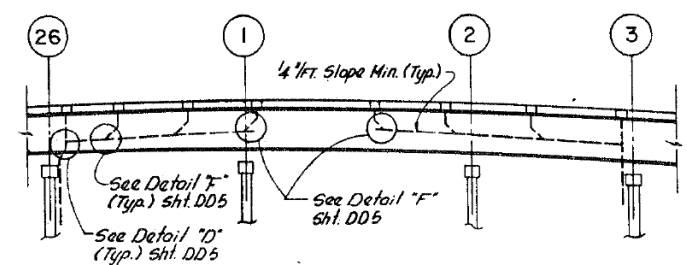
AT SPAN 7 (STR # 1115)



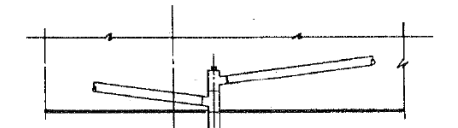
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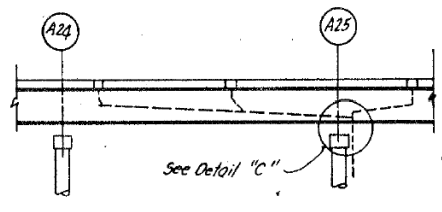
AT SPAN 24 (STR # 1112)



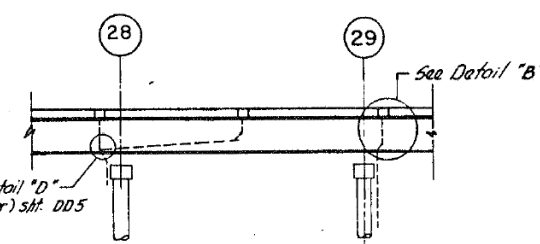
AT SPAN 26 & 2 (STR # 1116)



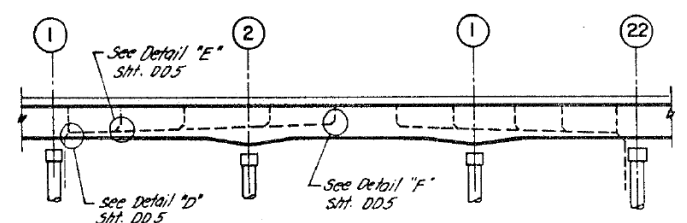
DETAIL "C"



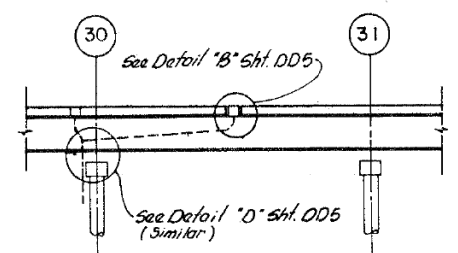
AT SPAN A24 (STR. # 1112)



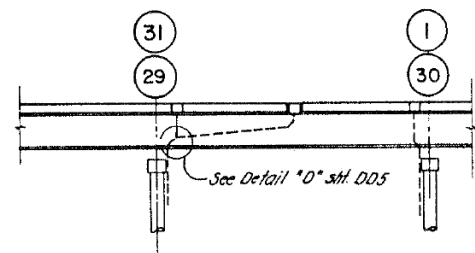
AT SPAN 28 (STR # 1112)



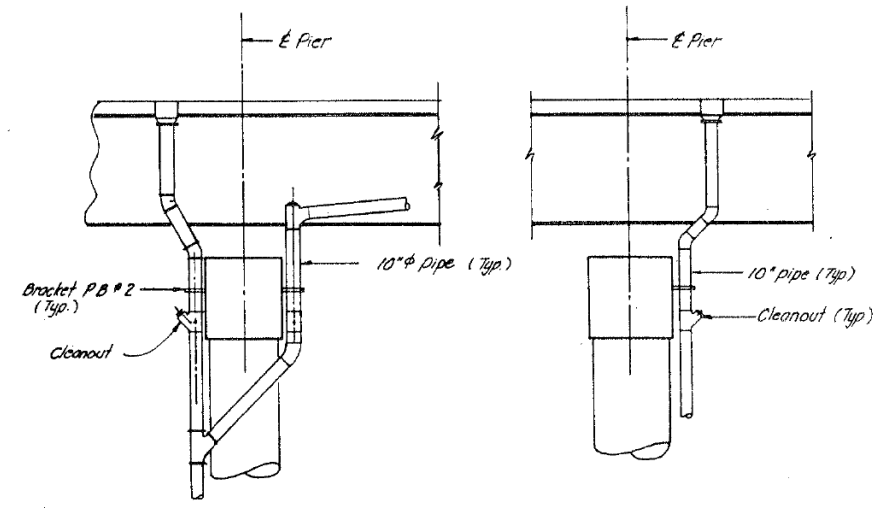
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AT SPAN 30 (STR # 1112)

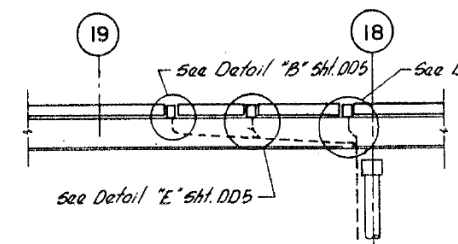


AT SPAN 29 (STR # 1112)
AT SPAN 31 (STR # 1112)

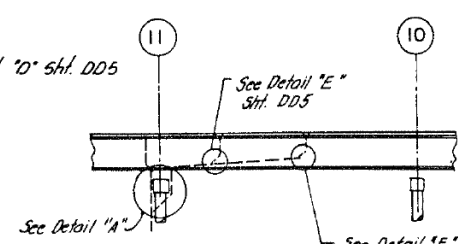


DETAIL "A"

DETAIL "B"



AT SPAN 18 (STR # 1115)



AT SPAN 10 (STR. # 1113)

- NOTES:
- For Details not shown see Sht. DD5.
 - For Pipe Bracket see Typical Details sht. DD8.
 - Minimum slope on any run of Pipe shall be 1/16"/ft unless noted.

SHEET DD 6 OF DD 8

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R - COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
DECK DRAINAGE-ALL STRUCTURES
LONGITUDINAL RUN & DETAILS-II
Scale: NONE
Date: August 1988
Checked By: R.J.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\V\AECOM-NA-AWS1\recomonline\local\AECOM_DS02_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76_Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

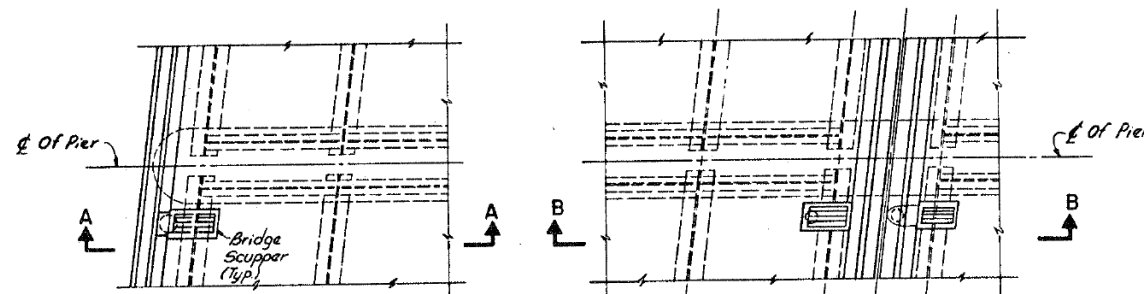
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO. AS13-71 OF AS13-82 SHEETS

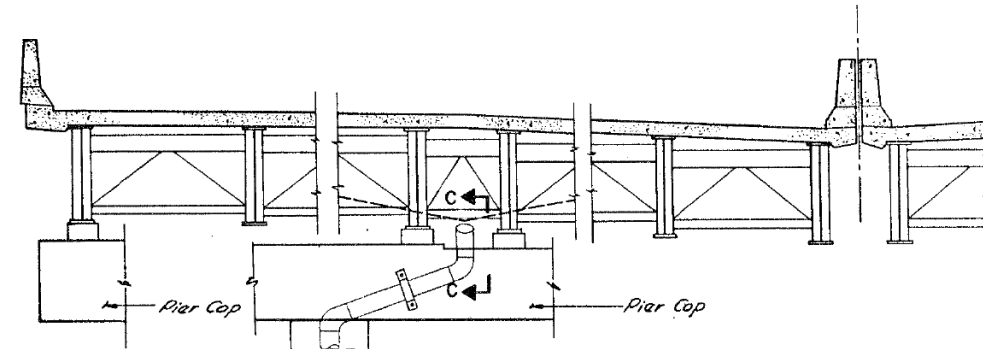
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1566
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

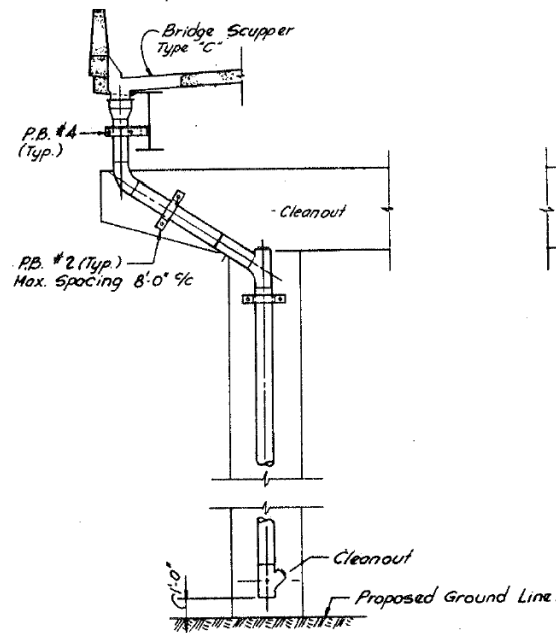
FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	88	67
STA.	TO STA.			
FED. AID DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 1985-077 B-R				



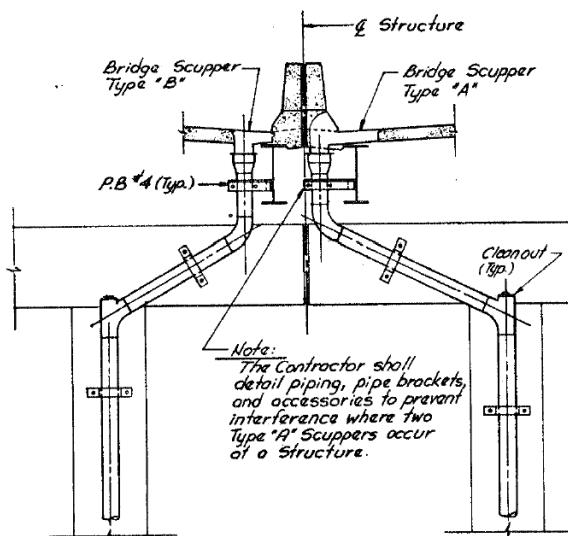
EXTERIOR SCUPPER
INTERIOR SCUPPER
TYPICAL PART PLAN OF SCUPPERS AT CONCRETE PIERS



TYP. PART ELEVATION AT 4 1/2" FINGER PLATE
EXPANSION JOINTS

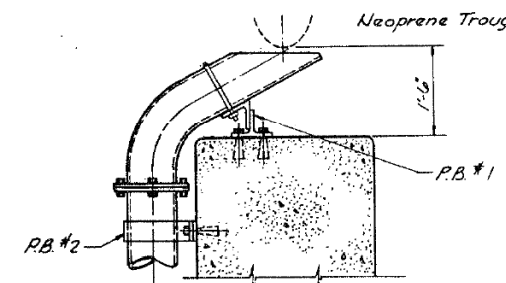


SECTION A-A

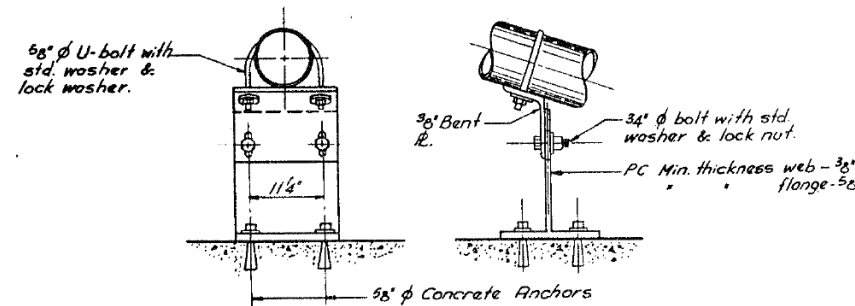


SECTION B-B

Note:
The Contractor shall detail piping, pipe brackets, and accessories to prevent interference where two Type "A" Scuppers occur at a Structure.



SECTION C-C



DETAIL OF PIPE SUPPORT P.B. #1

Notes:

- 1) Bridge Drainage Piping and fittings shall be Reinforced Fiberglass (Unless Noted), See Special Provisions.
- 2) See Drainage Contract Plans for location of catch basins, manholes, storm sewers etc.
- 3) Cleanouts - 10" Tee with blind flange or 5" Plug.
- 4) All elbows shall be long radius.
- 5) For Pipe Bracket (P.B.) Details not shown See Sht. DD E.

SHEET DD 7 OF DD 8

REVISIONS

Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-C 77 B-R - COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
DECK DRAINAGE - ALL STRUCTURES
TYPICAL DETAILS AND SECTIONS

Scale: NONE
Date: August 1, 1988

Drawn By: L.L.
Checked By: W.L.B.

ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\VAECOM-NA-AWS1\arcocomonline\local\AECOM_D502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\000_CAD\008_Structural\Sign_Structure\62A76-Sign_Structure\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

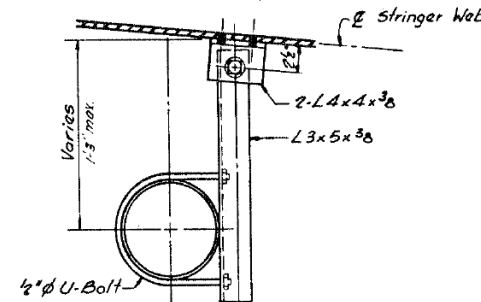
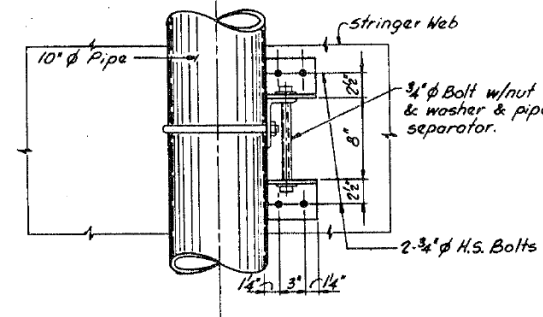
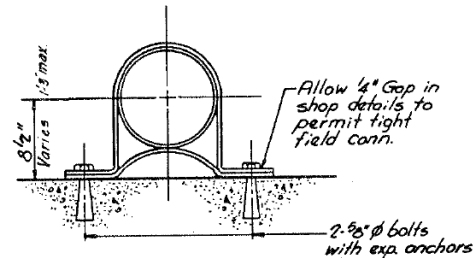
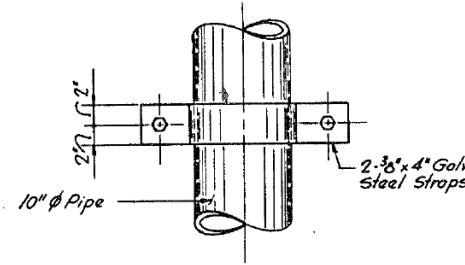
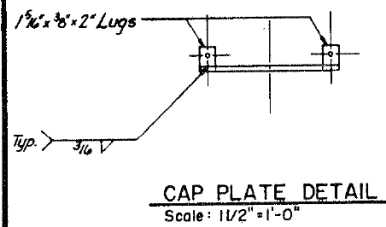
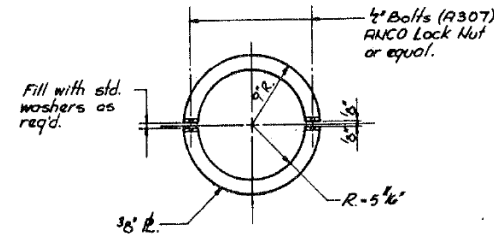
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STRUCTURE NO. 016-1110

SHEET NO.AS13-72 OF AS13-82SHEETS

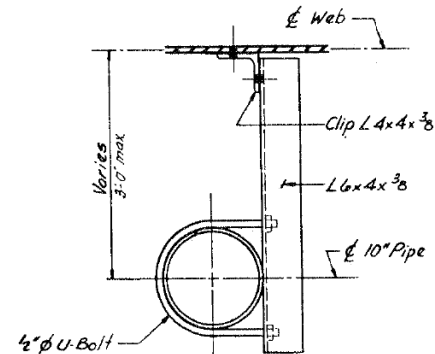
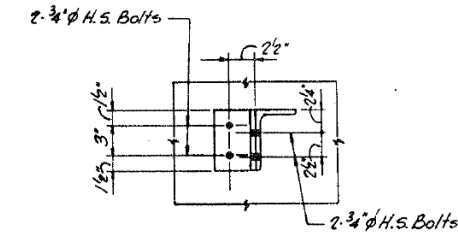
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1567
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

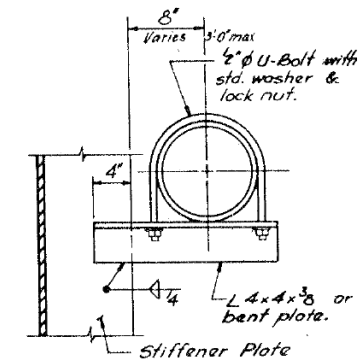
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90/94	*	COOK	88	68
STA. TO STA.	ILLINOIS FED. AID PROJECT			
FED. DIST. NO.	* 1985-077 B-R			



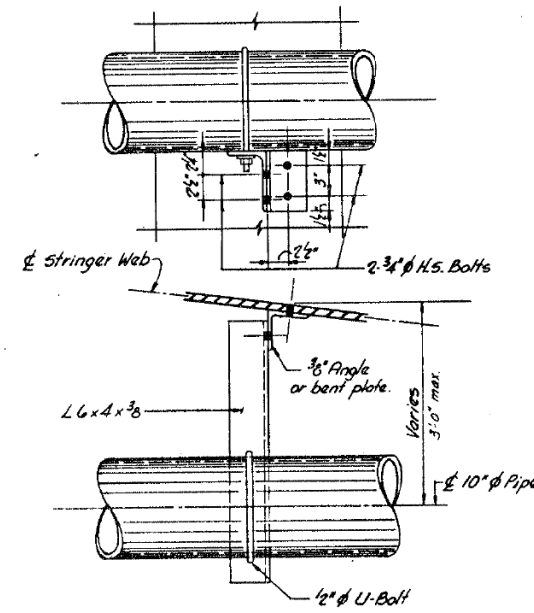
BRACKET P.B. #3
(FOR EXPANSION SEE NOTE 1.)



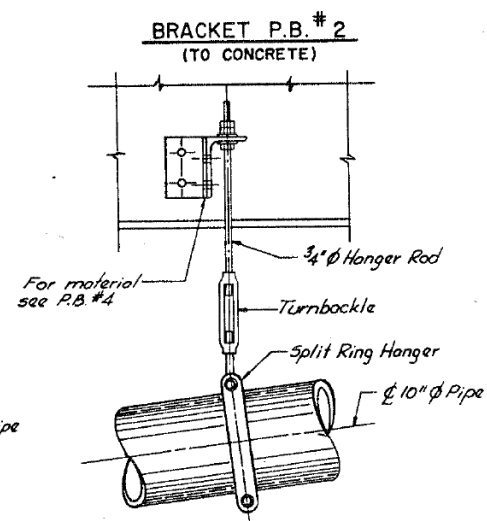
BRACKET P.B. #4
(TO WEB)



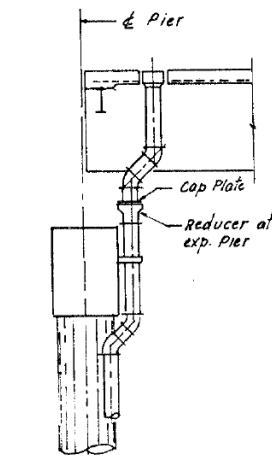
BRACKET P.B. #5
(TO STIFFENER)



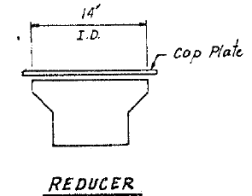
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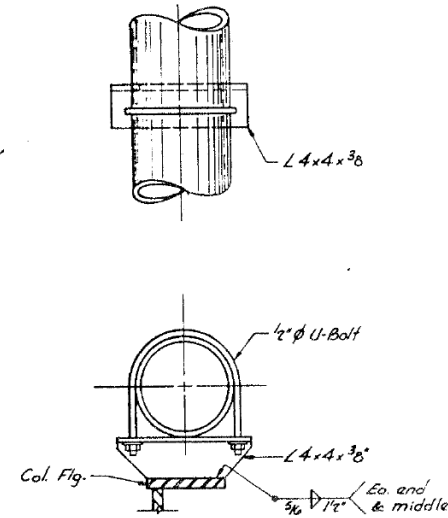
PIPE HANGER DETAIL



TYPICAL EXPANSION PIER



REDUCER



BRACKET P.B. #7

Note:
1.1 Adjacent to Preformed Expansion Joints when combining two bridge scuppers to one manhole or catch basin.

SHEET DD B OF DD B

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R - COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
DECK DRAINAGE - ALL STRUCTURES
TYPICAL DETAILS

Scale: NONE
Date: August 1, 1988
Drawn By: L.L.
Checked By: W.L.B.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\V\AECOM\NA-AWS1\arcomonline\local\AECOM_DS02_NAD\Documents\01_Americas\Transportation\60269938_Circle\Phase_CAD\008_Structural\Sign_Structures\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-73 OF AS13-82SHEETS

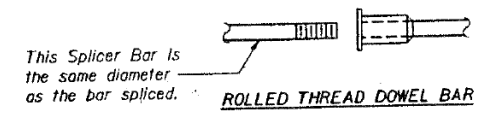
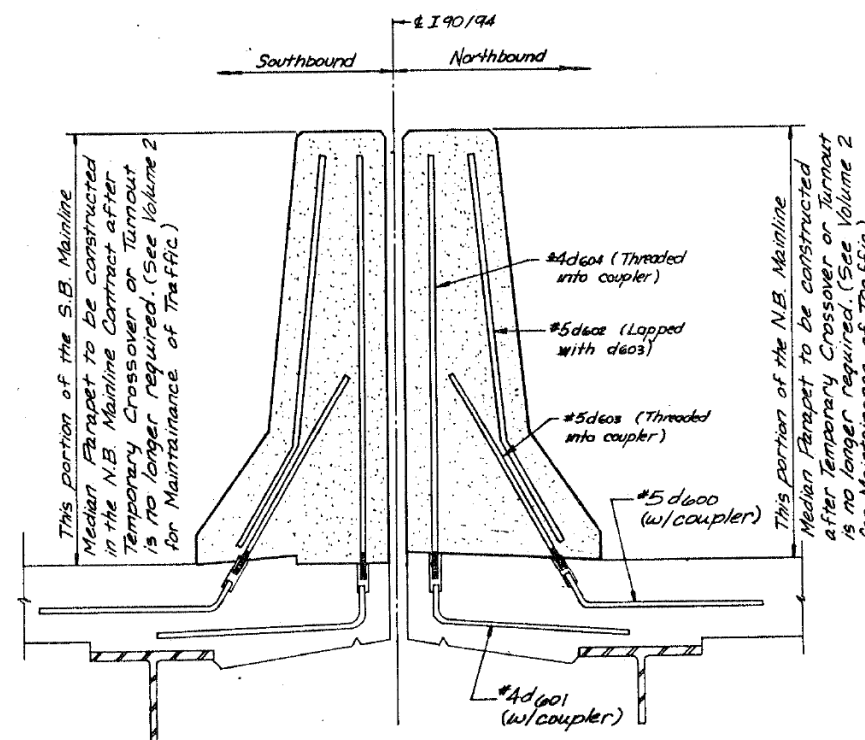
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1568
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	8	COOK	86	73
STA.		TO STA.		
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

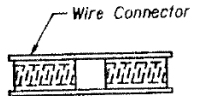
x 1985-077 B-R



ROLLED THREAD DOWEL BAR



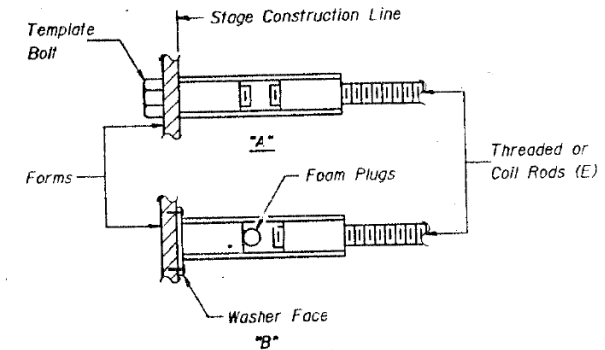
ONE PIECE



WELDED SECTIONS

SPLICER ALTERNATIVES

Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A": Set splicer by means of a template bolt.
 "B": Set splicer by nailing to wood forms or cementing to steel forms.
 (E): Indicates epoxy coating.

NOTES

Steel Splicer (Coupler) assembly shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Steel Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length and have effective tensile stress area equal or greater than that of the lapped reinforcement bars.

All reinforcement bars shall be lapped and tied to the splicer rods.
 Splicer (coupler) assembly in the slab shall be epoxy coated in accordance with the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed splicer (coupler) assembly satisfies the following requirements:

- Minimum Capacity = $1.25 \times f_y \times A_l$
(Tension in kips)
- Minimum Pull-out Strength = $1.25 \times f_{s_{allow}} \times A_l$
(Tension in kips)

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_l = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

Typical Splicer (Coupler) Assembly Sizes:		
In Slabs	#5 bar lap with 3/4" Splicer (Coupler) x 2'-0" Splicer Rods	Minimum Capacity = 23.0 kips-tension Minimum Pull-out Strength = 9.2 kips-tension
	#7 bar lap with 1" Splicer (Coupler) x 3'-5" Splicer Rods	Minimum Capacity = 45.1 kips-tension Minimum Pull-out Strength = 18.0 kips-tension
In Sub-Structure	#8 bar lap with 1 1/4" Splicer (Coupler) x 4'-6" Splicer Rods	Minimum Capacity = 58.9 kips-tension Minimum Pull-out Strength = 23.6 kips-tension

SHEET TT 2 OF 2

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-077 B-R-COOK COUNTY
 N.B. MAINLINE RECONSTRUCTION
 TURNOUT AND CROSSOVER COUPLER DETAILS
 Scale: NONE
 Date: AUGUST, 1988
 Drawn By: MMS
 Checked By: MEM
 ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

FILE NAME: D:\VAE\COM-NA-AW51\recomonline\local\AECOM_D502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase\CAD\008_Structural\Sign_Structure\62A76-Span-55229-Exftplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS STRUCTURE NO. 016-1110

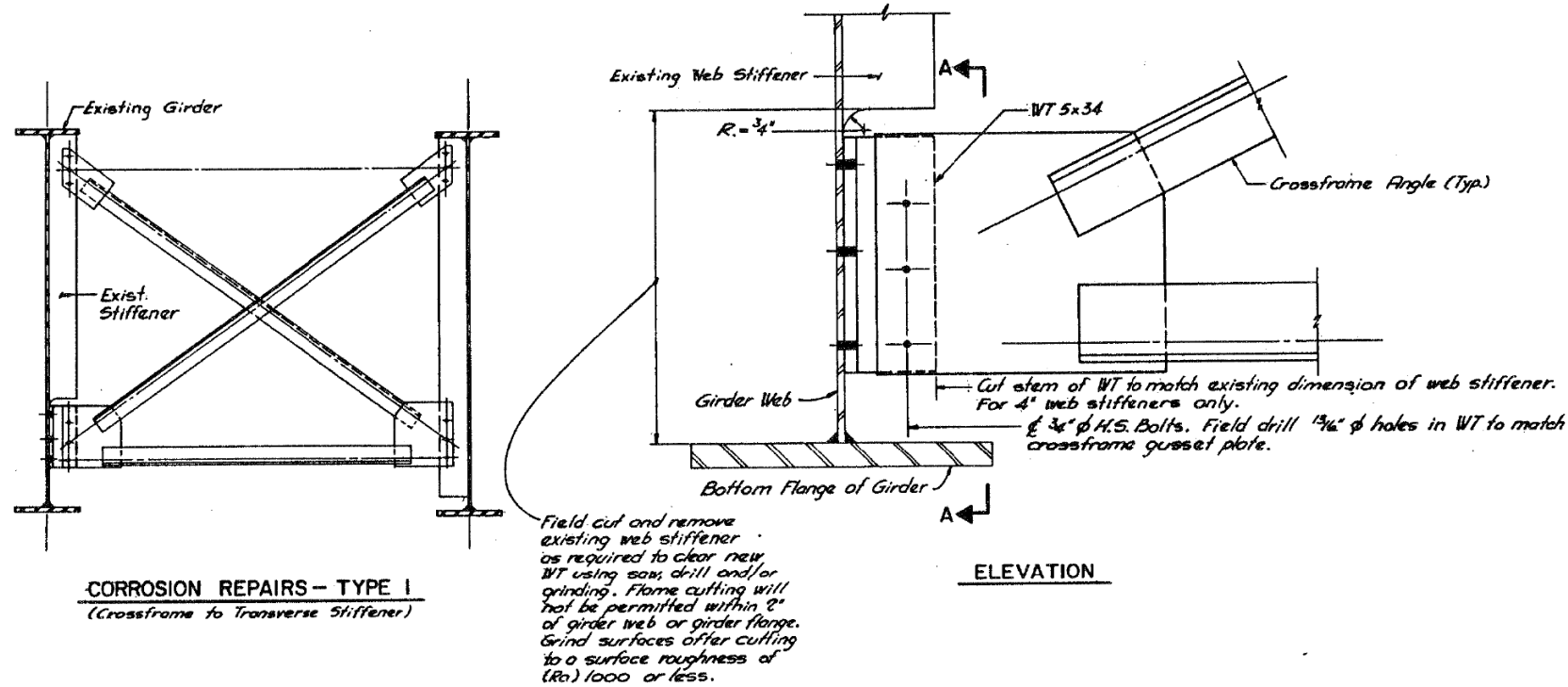
SHEET NO.AS13-75 OF AS13-82SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1570
CONTRACT NO. 62A76				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	#	COOK	88	76
STA.		TO STA.		
FED. AID DIST. NO.		ILLINOIS	FED. AID PROJECT	
# 1985-077 B-R				

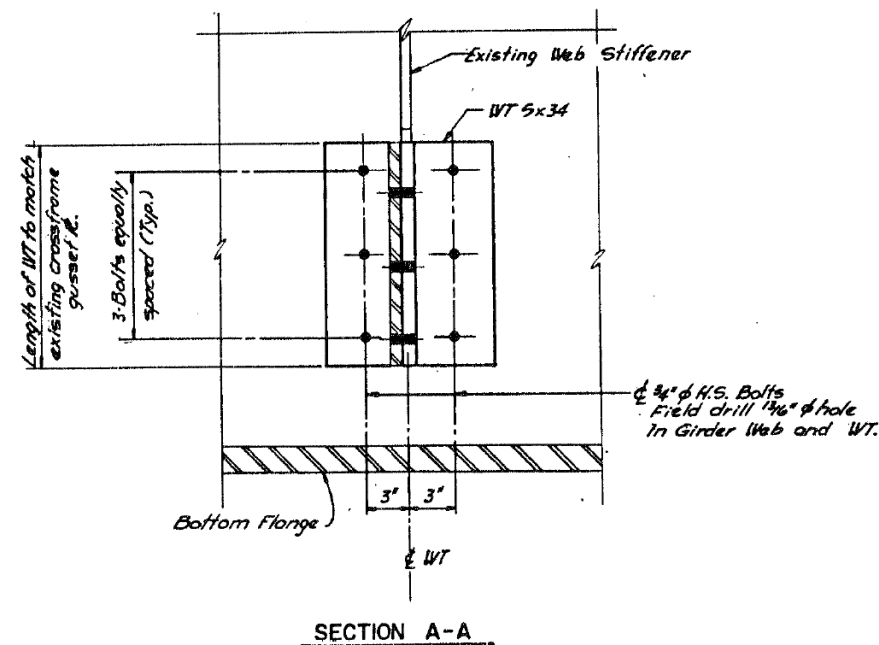


CORROSION REPAIR SCHEDULE

Structure No.	No. Required
016-0137	0
016-1110	8
016-1111	12
016-1112	16
016-1113	21
016-1114 & 016-1070	0
016-1115	10
016-1114	0
016-1047	0
016-1116	10
016-1117	9
016-1118	0

NOTES

- 1) The Corrosion Repair, crossframe gusset plate to transverse stiffener, to be used in field as directed by the Engineer.
- 2) Quantities shown in the Corrosion Repair Schedule are estimates based on a 1984 inspection report. Payment to the Contractor will be made on actual quantities used.
- 3) Corrosion Repairs shown on this sheet included in Bid Item "Structural Steel Repair."



SHEET SR 1 OF 7

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077B-R- COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
STRUCTURAL REPAIRS - ALL STRUCTURES
CORROSION REPAIRS - TYPE I

Scale: NONE
Date: AUGUST, 1988
Drawn By: L.L.
Checked By: W.P.K.

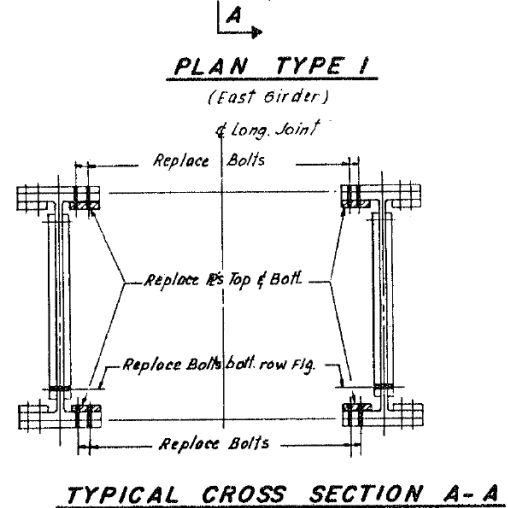
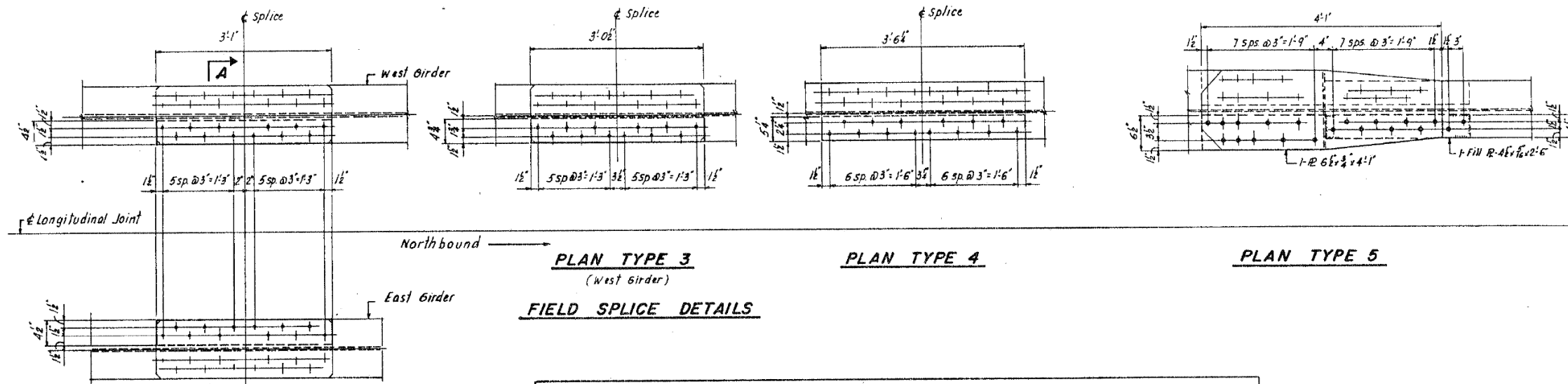
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1571
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	88	77
STA.		TO STA.		
FED. NO. DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 1985-077 B-R				



SPlice TYPE	SPlice LOCATION	BETWEEN PIERS	GIRDER	SIZE PLATE WEST GIRDER	SIZE PLATE EAST GIRDER	BOLTS / DER. FLANGE	NO. SPlices REQUIRED	WEIGHT OF STEEL PER SPlice - LBS.
STRUCTURE 016-1105 N.B.	3 Splice 13	2-3	17	2-PL 4 1/2 x 1' x 3'-0 1/2"	---	24 / 3/4"	6 / 3/4"	128
	3 "	14	18	---	2-PL 4 1/2 x 1' x 3'-0 1/2"	24	6	128
	3 "	15	17	2-PL 4 1/2 x 1' x 3'-0 1/2"	---	24	6	128
	3 "	16	18	---	2-PL 4 1/2 x 1' x 3'-0 1/2"	24	6	128
	3 "	17	21	2-PL 4 1/2 x 1' x 3'-0 1/2"	---	24	6	128
	3 "	18	15	2-PL 4 1/2 x 1' x 3'-0 1/2"	---	24	6	128
	3 "	19	16	---	2-PL 4 1/2 x 1' x 3'-0 1/2"	24 / 3/4"	6 / 3/4"	128
STRUCTURE 016-1117 N.B.	4 Splice 24	24-25	15	2-PL 5 1/2 x 3'-6 1/2"	---	28 / 3/4"	6 / 3/4"	128
	4 "	25	16	---	2-PL 5 1/2 x 3'-6 1/2"	28	6	128
	4 "	26	15	2-PL 5 1/2 x 3'-6 1/2"	---	28	6	128
	4 "	27	16	---	2-PL 5 1/2 x 3'-6 1/2"	28 / 3/4"	6 / 3/4"	128
STRUCTURE 016-1112 N.B.		16-17	64-R	Replace Bolts	---	42 / 3/4"	6 / 3/4"	48
STRUCTURE 016-1110 N.B.	5	6-7	6 59	2-Fill PL 4 1/2 x 3/8 x 2'-6"	---	40 / 3/4"	6 / 3/4"	205
	5	6-7	6 60	2-PL 6 1/2 x 3'-4'-1"	2-PL 4 1/2 x 3/8 x 2'-6"	40 / 3/4"	6 / 3/4"	205
STRUCTURE 016-0187 N.B.	1 Splice 28	8-9	6 16	2-PL 4 1/2 x 3'-1"	---	24 / 3/4"	6 / 3/4"	89
	1 Splice 29	8-9	6 16	2-PL 4 1/2 x 3'-1"	---	24 / 3/4"	6 / 3/4"	89

- NOTES:
- The Contractor shall remove existing and replace new field splice plates when concrete deck is removed.
 - Splice plates at each field splice shall be removed and replaced one at a time with only the steel dead load on span.
 - Holes in new splice plates may be subpunched or subdrilled in shop and field reamed to full size. Holes may be drilled full size in field.
 - Steel Repairs shown on this sheet included in Bid Item "Structural Steel Repair."

SHEET SR 2 OF 7

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R-COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
STRUCTURAL REPAIRS - ALL STRUCTURES
FIELD SPlice DETAILS
Scale: NONE
Date: AUGUST, 1988
Drawn By: J.B.
Checked By: W.B.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\V\AECOM-NA-AW51\aecocomonline.local\AECOM_ID502_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\62A76-Span-55229-Extr\plans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

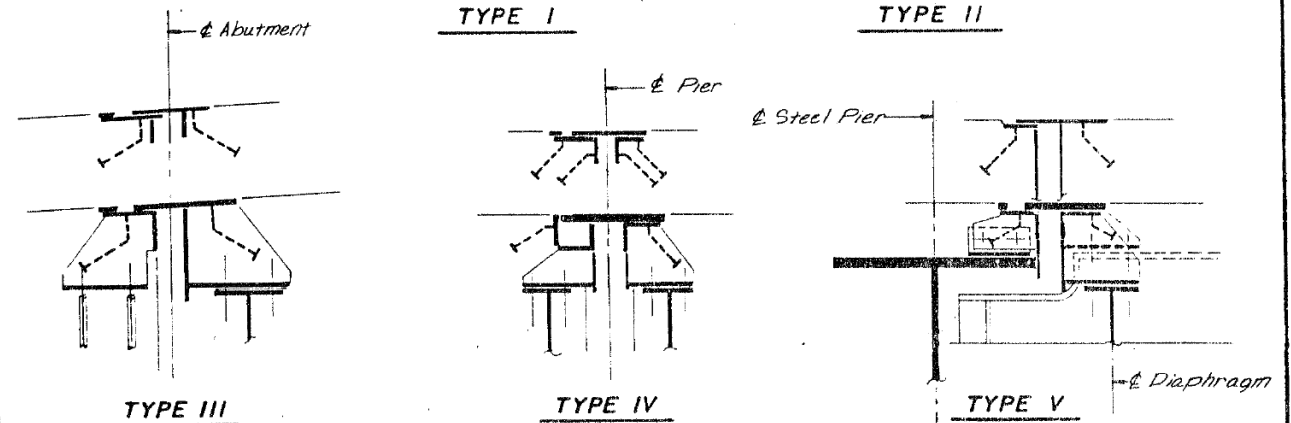
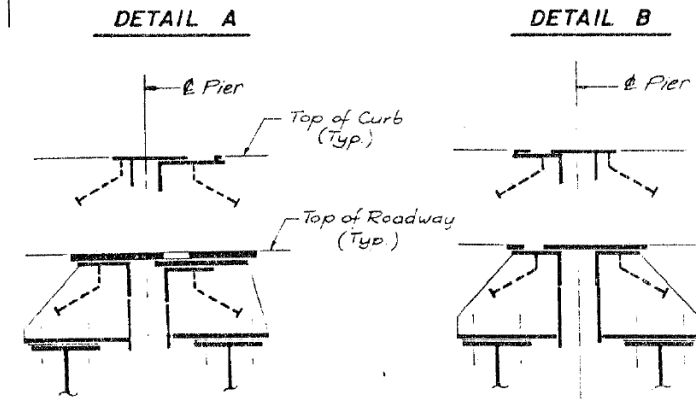
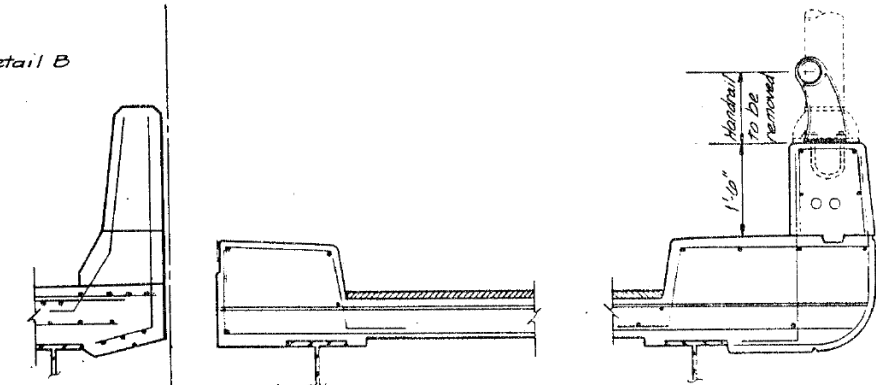
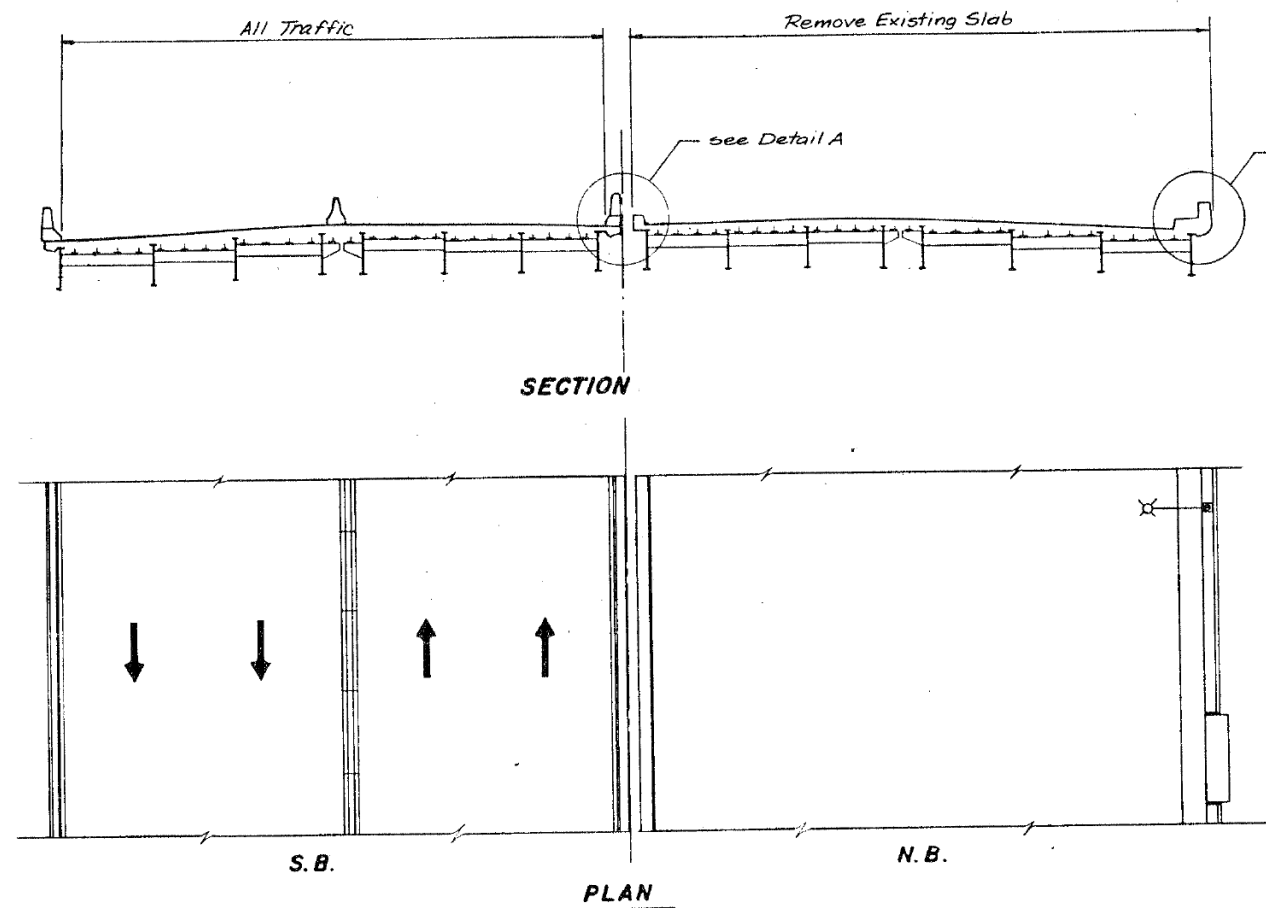
SHEET NO. AS13-77 OF AS13-82 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1572
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	#	COOK	88	85
STA.	TO STA.			
FED. RD. DIST. NO.	KLIMOS	FED. AID PROJECT		

1985-077 B-R



SECTION THROUGH TRANSVERSE DECK EXPANSION JOINT

EXISTING EXPANSION GUARD REMOVAL

EXPANSION GUARD TYPE	STRUCTURE NO.									
	016-0137 PIERS	016-1110 PIERS	016-1111 PIERS	016-1112 PIERS	016-1113 PIERS	016-1114 PIERS	016-1115 PIERS	016-1116 PIERS	016-1117 PIERS	016-1047&1140 PIERS
I	7, 11, 15, 19, 23	1, 4	2, 7	10	C10					
II		Joints A & B Entrance Ramp	E8		3, 5, 7, 8, 10, C3, C5, C7, C5, D7, D8, D10	22	1, 5 (mainline), 3, 10, 15, 16, 18, 20	3	8, 10, 12, 13, 14, 16, 18, 26	
III			E5							B18, E30
IV							5 (Ramp B) E1			B11, B15, B16, B17, E22, E23, E24, E25, E26, E27, E28, E29
V							8, 12, 13, 14			

Note: Contractor shall remove existing transverse deck expansion joint. Cost incidental to "Removal of Existing Concrete Deck."

SHEET DR 1 OF 1

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R-COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
DECK REMOVAL-ALL STRUCTURES
DECK REMOVAL
Scale: NONE
Date: AUGUST, 1988
Drawn By: JR
Checked By: M.M.S.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois



USER NAME =	francisco.lopez	DESIGNED -	JMI	REVISED -	
CHECKED -	MAI, JJS	REVISIONS -			
PLOT SCALE =	N.T.S	DRAWN -	JMI	REVISED -	
PLOT DATE =	1/24/2020	CHECKED -	MAI, JJS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1573
CONTRACT NO. 62A76				

SHEET NO.AS13-78 OF AS13-82SHEETS

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2	COOK	88	85
STA.	TO STA.			
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

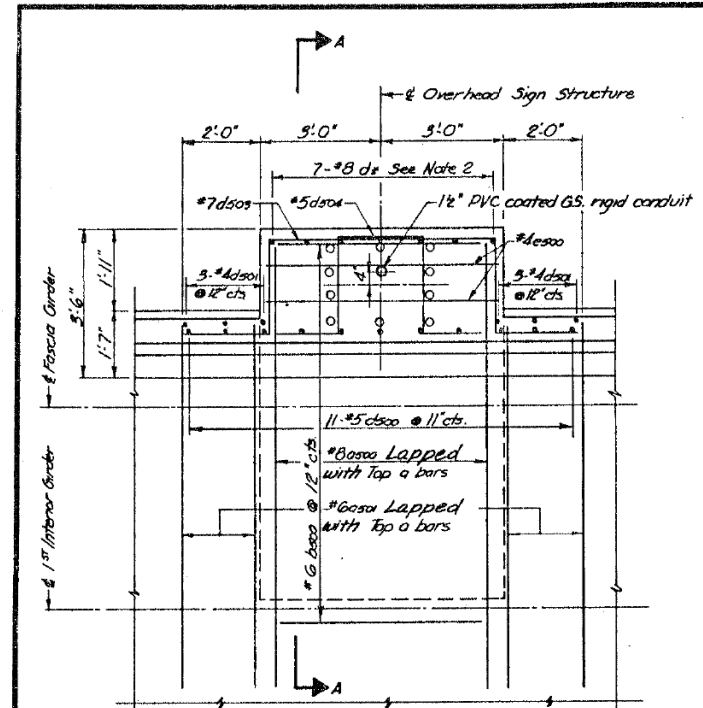
SECTION 1985-077 B-R

BAR LIST

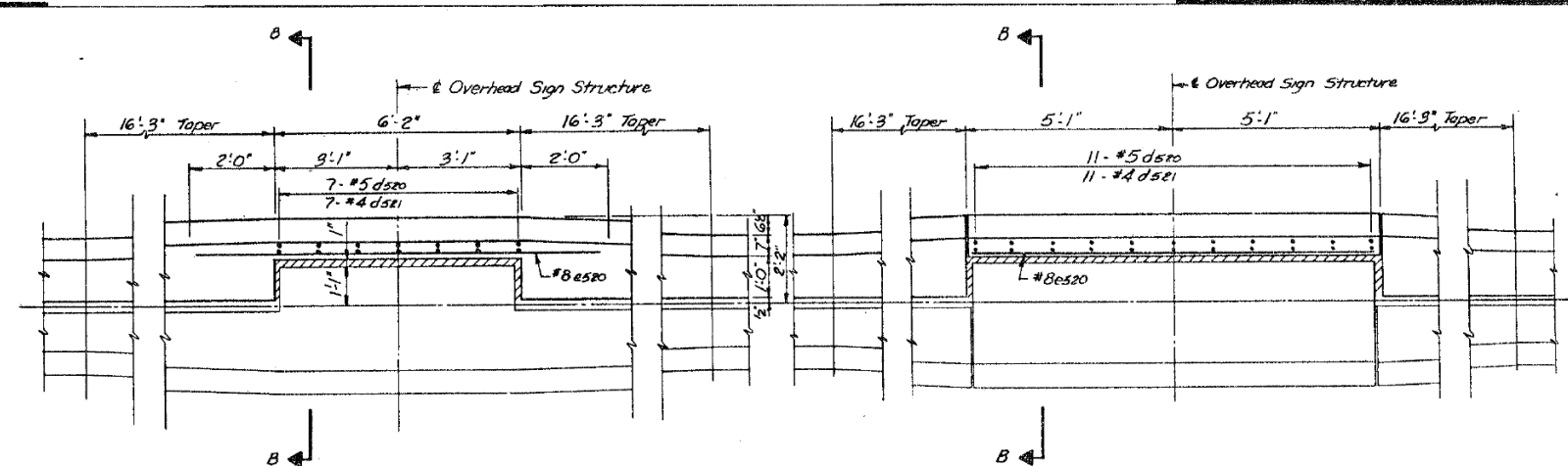
OUTSIDE PARAPET				
MARK	NUMBER	SIZE	LENGTH	TYPE
a500	see Note 3	#3	20'-0"	—
a501	see Note 3	#6	18'-0"	—
b500	see Note 3	#6	5'-9"	—
b501	10	#6	20'-0"	—
d501	6	#4	5'-10"	L
d500	11	#5	6'-0"	L
d503	5	#7	14'-4"	J
d504	5	#5	10'-7"	J
d*	7	#8	see Note 2	L
e500	2	#4	5'-0"	—
U510	See note 7	#5	14'-4"	□

MEDIAN PARAPET				
MARK	NUMBER	SIZE	LENGTH	TYPE
d520	7	#5	3'-6"	L
d521	7	#4	3'-7"	L
e520	1	#8	9'-10"	—

MEDIAN PARAPET AT INTERIOR PIER				
MARK	NUMBER	SIZE	LENGTH	TYPE
d520	11	#5	3'-6"	L
d521	11	#4	3'-7"	L
e520	1	#8	9'-10"	—

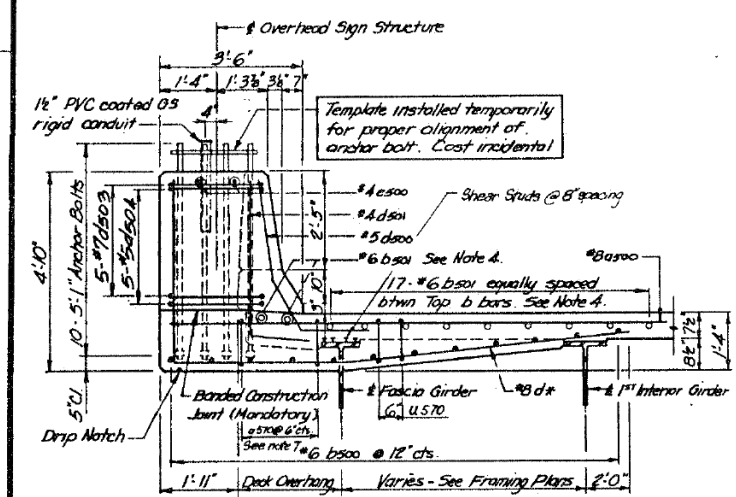


PLAN
SIGN SUPPORT AT OUTSIDE PARAPET

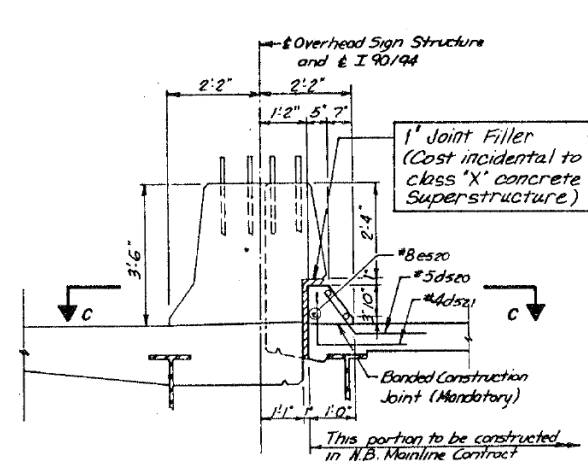


SECTION C-C
SIGN SUPPORT AT MEDIAN PARAPET

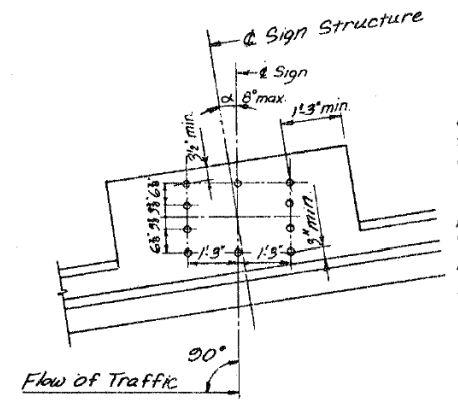
SECTION C-C
SIGN SUPPORT AT MEDIAN NEAR AN INTERIOR PIER (See Note 6)



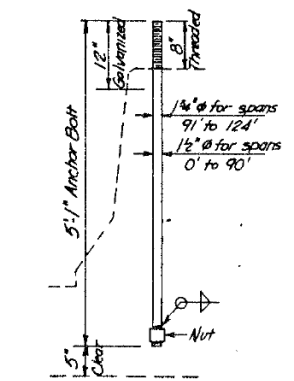
SECTION A-A



SECTION B-B



PLACEMENT OF ANCHOR BOLTS



ANCHOR BOLT DETAIL
(ASTM A-576 Fy = 55,000 psi)

Note:

- An interior pier is defined as a pier in which the deck is continuous over it.
- The bar length and bend diagram are determined from the deck overhang and beam spacings at that Station Location. Bar d* shall be given a 500 series bar designation and this bar will be indicated on the deck.
- Actual number of bars is dependent on the spacing of the transverse reinforcement and is indicated on the deck plans and corresponding bar lists.
- When the sign truss is located approximately 0.125 of the span length away from an interior pier then #6 b501 bars are not needed. If the sign truss is located >0.25 of the span length from an interior pier, or near an expansion joint, then #6 b501 shall be added to the deck reinforcement.
- Cost of field drilling 1/8" holes thru the web fascia girder shall be incidental to reinforcement.
- When a sign truss is located near an interior pier & the aluminum joint is less than 14'-0" then the 'Sign Support @ Median near an Interior Pier' is used.
- Actual number of bars is dependent on the deck overhang. The U570 is spaced at 6" cts from the flange of the fascia girder to the edge of the deck overhang.
- Shear studs must be provided at 8" spacing to the top flange of the fascia girder for full length of sign support.

SHEET PD1 OF 4

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R-COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
PARAPET MOUNTED OVERHEAD SIGN STRUCTURE
Scale: NONE
Date: AUGUST, 1988
Drawn By: M.M.S.
Checked By: M.E.M.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\V\AE\COM-NA-AW51\ae\comonline\local\AE\COM_D502_NAV\Documents\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76-Span-55229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

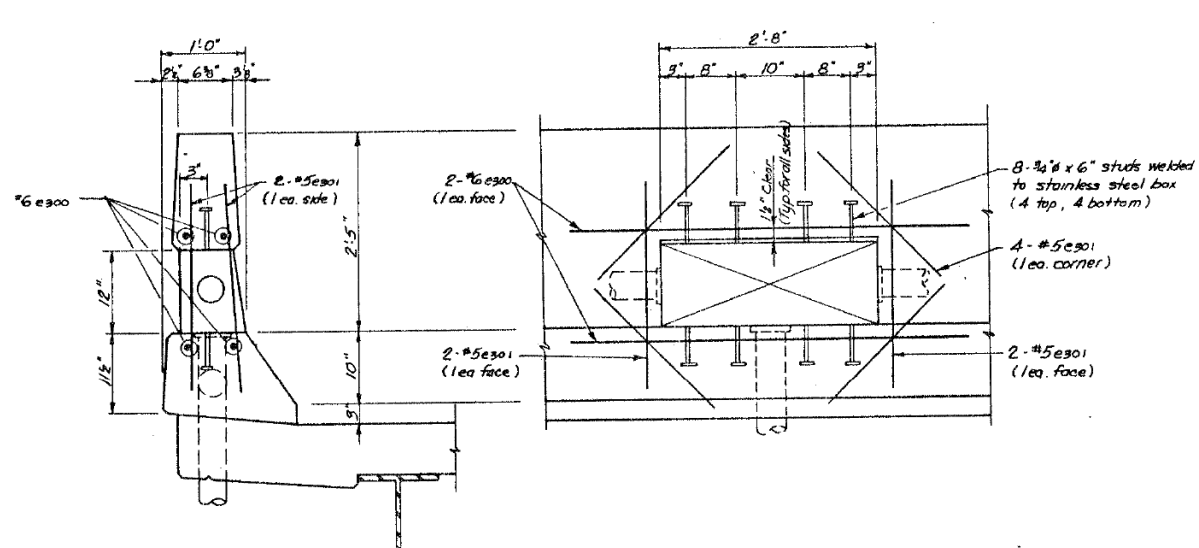
EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

SHEET NO.AS13-79 OF AS13-82SHEETS

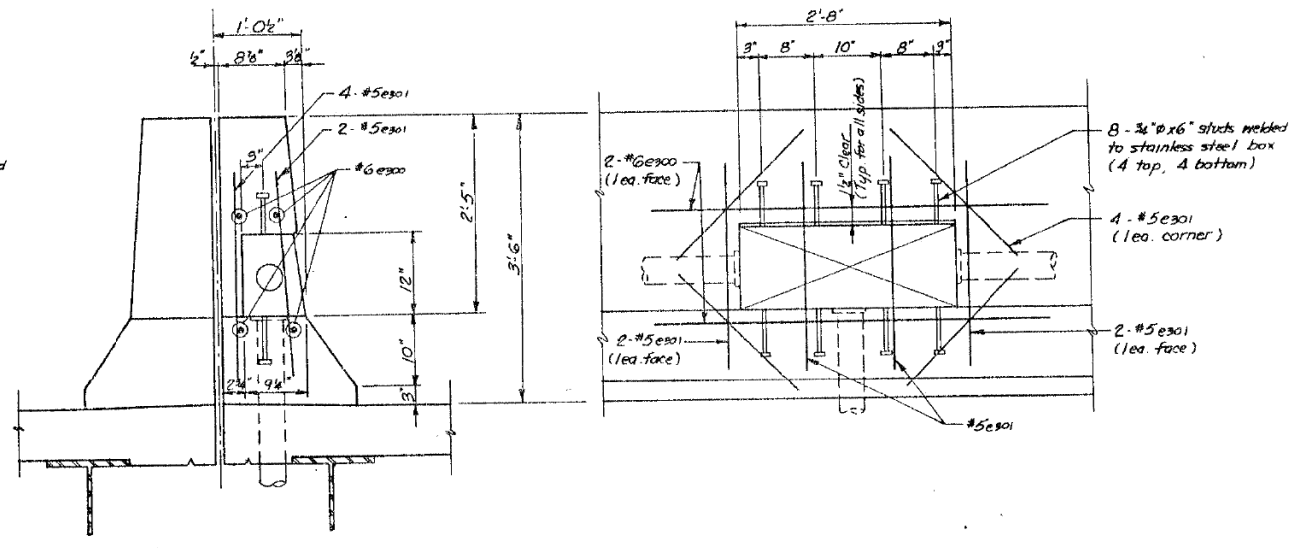
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1574
CONTRACT NO. 62A76				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

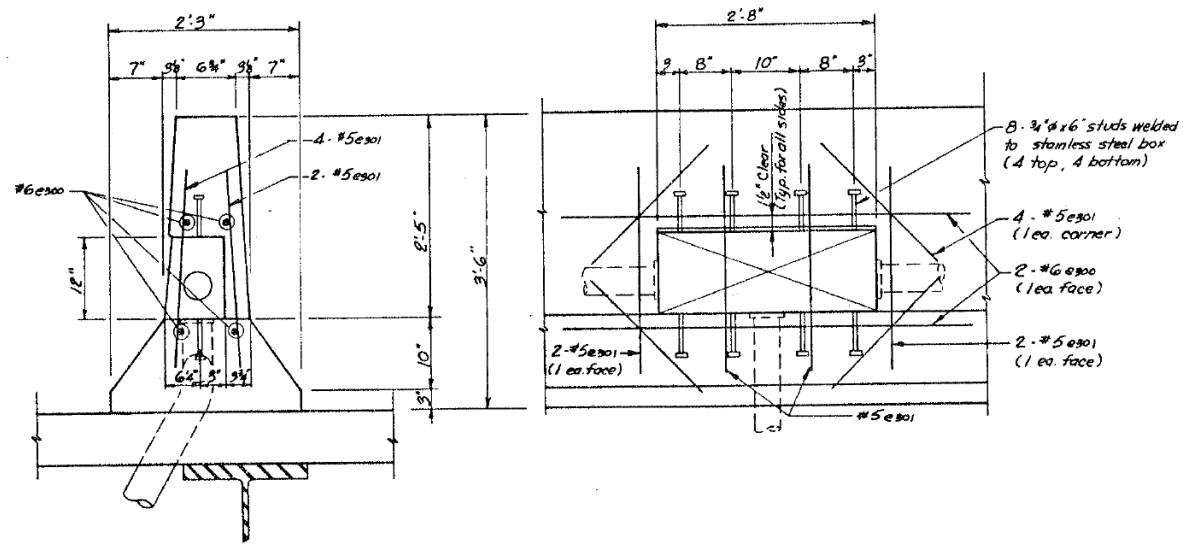
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STA.	TO STA.			
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 1985-077 B-R				



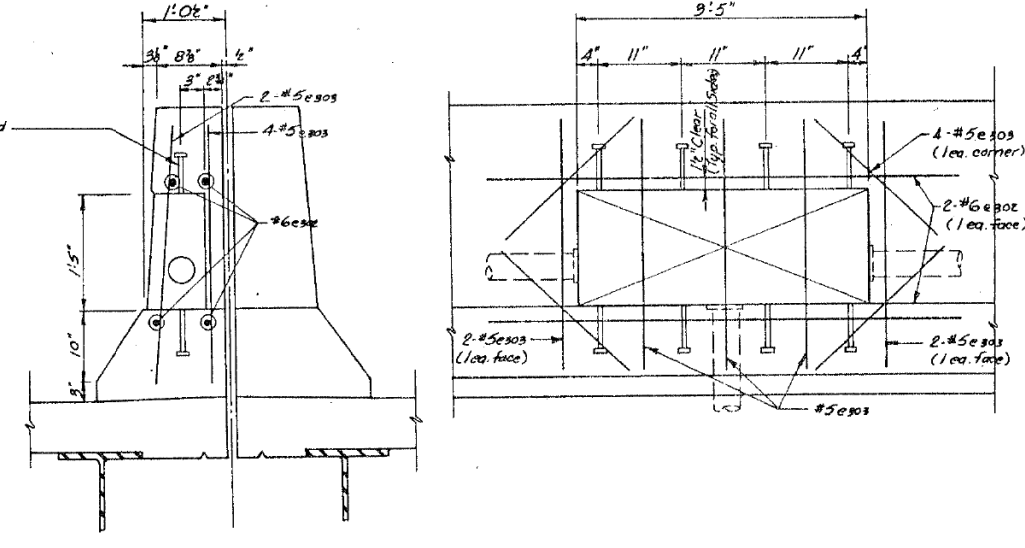
SECTION **ELEVATION**
JUNCTION BOX AT OUTSIDE PARAPET



SECTION **ELEVATION**
JUNCTION BOX AT MEDIAN PARAPET



SECTION **ELEVATION**
JUNCTION BOX AT CONCRETE BARRIER



SECTION **ELEVATION**
SURVEILLANCE BOX AT MEDIAN PARAPET

SURVEILLANCE BOX				
MARK	NUMBER	SIZE	LENGTH	TYPE
e902	4	#6	6'5"	---
e903	11	#5	3'0"	---
OUTSIDE PARAPET				
MARK	NUMBER	SIZE	LENGTH	TYPE
e900	4	#6	5'8"	---
e901	8	#5	2'6"	---
MEDIAN PARAPET				
MARK	NUMBER	SIZE	LENGTH	TYPE
e300	4	#6	5'8"	---
e901	10	#5	2'6"	---
CONCRETE BARRIER				
MARK	NUMBER	SIZE	LENGTH	TYPE
e900	4	#6	5'8"	---
e901	10	#5	2'6"	---

SHEET PD2 OF 4

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R-COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
PARAPET MOUNTED JUNCTION BOXES
Scale: NONE Drawn By: MMS
Date: AUGUST, 1988 Checked By: MEM
ENVIRONMENTAL ENGINEERS INC.
Chicago, Illinois

FILE NAME: D:\V\AECOM-NA-AWS1\recomonline\local\AECOM_DS02_NAVDocuments\01_Americas\Transportation\60269938_Circle\Phase_I\0000_CAD\008_Structural\Sign_Structures\62A76-Span-SS229-Extrplans.dgn



USER NAME =	francisco.lopez	DESIGNED -	JMI	REVISED -	
CHECKED -	MAI, JJS	REVISIONS -			
PLOT SCALE =	N.T.S	DRAWN -	JMI	REVISED -	
PLOT DATE =	1/24/2020	CHECKED -	MAI, JJS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1575
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

SHEET NO. AS13-80 OF AS13-82 SHEETS

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	88	87
STA.		TO STA.		
FED. NO. DIST. NO.		ALIGNMENT	FED. AID PROJECT	
# 1985-077 B-R				

Note: All edges shall have $\frac{3}{4}$ " chamfer.

$\frac{1}{2}$ " Preformed Cork Joint Filler in parapet joints. Space of 14'-0" to 20'-0" cts. of aluminum sheets.

Construction Joint (Optional)

$\frac{1}{8}$ " Aluminum Sheet at locations shown in Elevation of Parapet for each Bridge

4" ϕ PVC conduit (See Vol. 14 for details of location)

Banded Construction Jt (Mandatory)

Variable (Not less than 4')

$\frac{3}{4}$ " Drip Notch Full length

OUTSIDE PARAPET CONFIGURATION

Southbound Mainline Northbound Mainline

Not part of this contract unless noted on plan.

See detail A

Limit of Protective Coat (Similar for outside parapet.)

4" ϕ PVC Surveillance Conduit. Cost incidental to class 'X' concrete superstructure. See Vol. 14 for details.

The contractor has the option to form the bottom of the cantilever slab level for ease of construction. The cost of the additional concrete shall be considered incidental.

MEDIAN PARAPET CONFIGURATION

Two component non-staining grey sealing compound with polysulfide liquid polymer gun-grade with primer. Cost incidental to class 'X' conc. superstructure.

Two component non-staining grey sealing with polysulfide liquid polymer gun grade with primer.

1" ϕ Compressible Rod

1" Preformed joint filler.

$\frac{1}{2}$ " preformed Cork Joint Filler (in accordance with Articles 715.07 or 715.08) cost incidental.

Construction Jt (Optional)

PARAPET JOINT DETAIL

Materials shown are to be installed between the southbound and northbound median parapets and cost incidental to class 'X' Concrete Superstructure.

DETAIL A

SECTION C-C

1" Joint Filler (Cost incidental to Class 'X' Concrete Superstructure)

SECTION B-B

LIGHT STANDARD SUPPORT AT MEDIAN PARAPET

SECTION A-A

LIGHT STANDARD SUPPORT AT OUTSIDE PARAPET

SECTION AT NEOPRENE EXPANSION JOINT

* Place a(E) Bar in back of anchor bolt as shown if required to maintain 1" clear (+D-b") Anchor Bolts should be tied to a(E).

PLAN

16'x16' Base (Typ)

Light Standard at Outside Parapet

Mark	Number	Size	Length	Type
d403	6	#6	8'-11"	L
d404	3	#6	5'-1"	L

Light Standard at Median Parapet

Mark	Number	Size	Length	Type
dA20	3	#4	3'-7"	L
DA21	3	#5	3'-6"	L
EA20	1	#8	6'-3"	L

Note: Contractor shall verify in field the exact location of the light standard in order to properly reinforce the light support.

1" ϕ ANCHOR BOLT

Note: 1" ϕ x 5'7" Anchor Bolt - Provide 2 flat washers, 1 regular nut & 1 locknut for each bolt. All nuts & washers must be galvanized. Cost incidental to light standard.

FILLET REINFORCEMENT

Note: Additional reinforcement is required for fillet heights in excess of 3 inches as illustrated above. The d301, d302, and d303 bars are detailed in the bar lists of each structure, however the placement of the bars is not shown in the plans. The contractor shall place the bars between rows of stud shear connectors or channels in accordance with the details above.

DETAIL A

FILE NAME: D:\V\AE\COM-NA-AW51\ae\comonline\local\AE\COM_D502_NAV\Documents\01_Americas\Transportation\60269938_Circle\Phase_CAD\008_Structural\Sign_Structures\62A76-Span-SS229-Extrplans.dgn



USER NAME = francisco.lopez	DESIGNED - JMI	REVISED -
PLOT SCALE = N.T.S	CHECKED - MAI, JJS	REVISED -
PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
	CHECKED - MAI, JJS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1576
CONTRACT NO. 62A76				
ILLINOIS		FED. AID PROJECT		

SHEET PD3 OF 4

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077B-COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
PARAPET MOUNTED LIGHT POLES AND
TYPICAL PARAPET CROSS SECTIONS

Scale: NONE
Date: AUGUST, 1988
Checked By: MMS

Drawn By: AV
Checked By: MMS

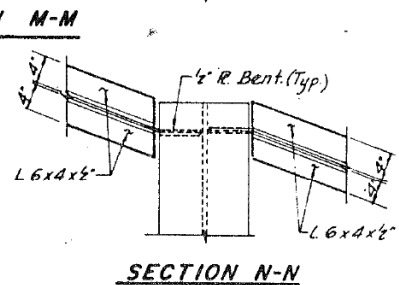
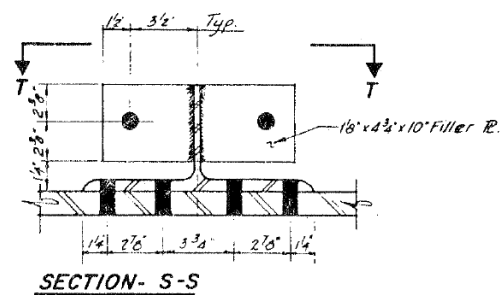
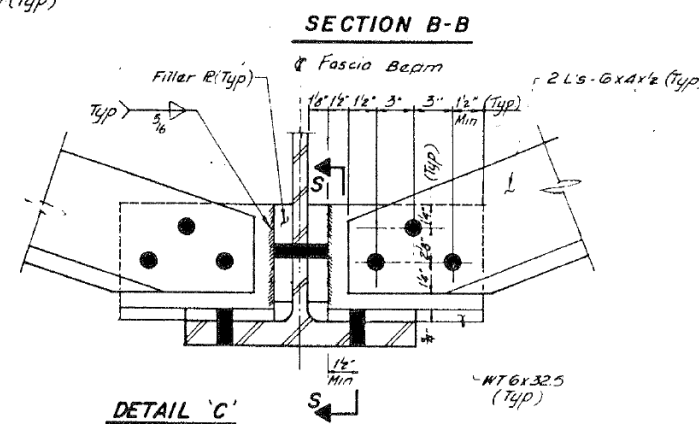
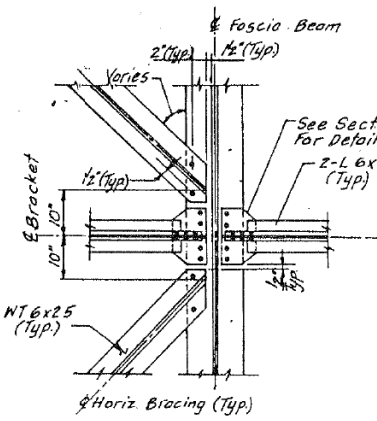
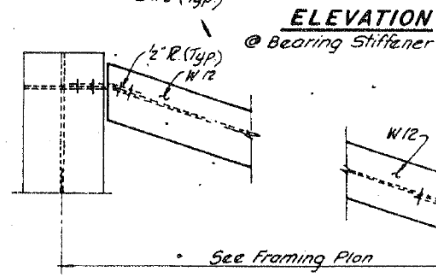
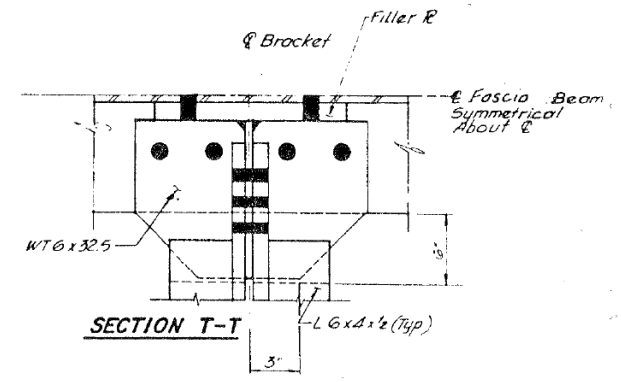
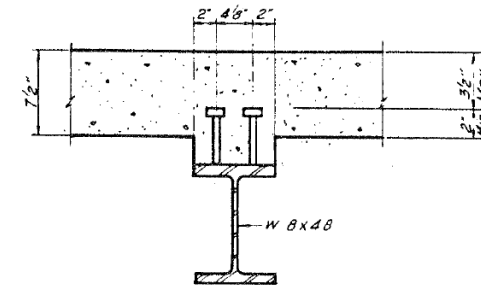
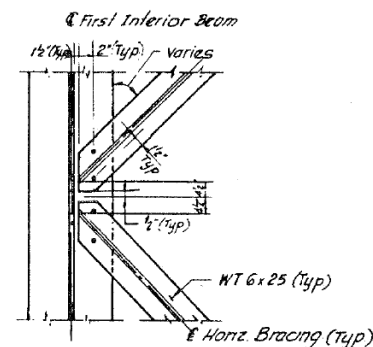
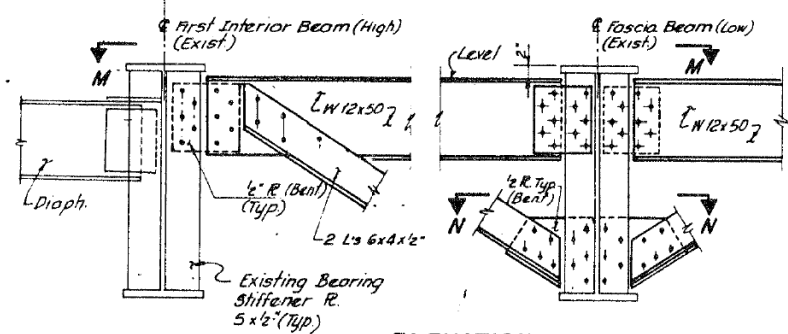
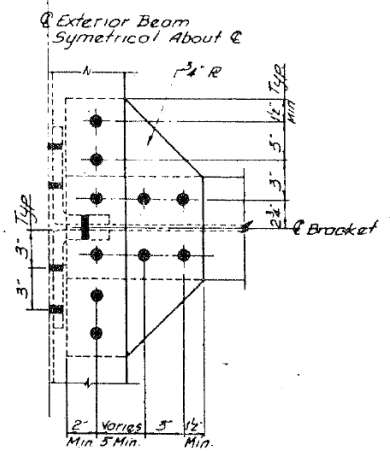
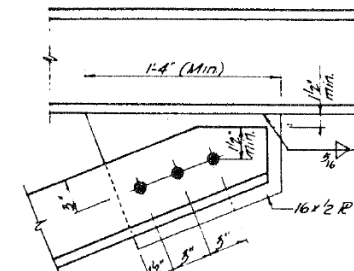
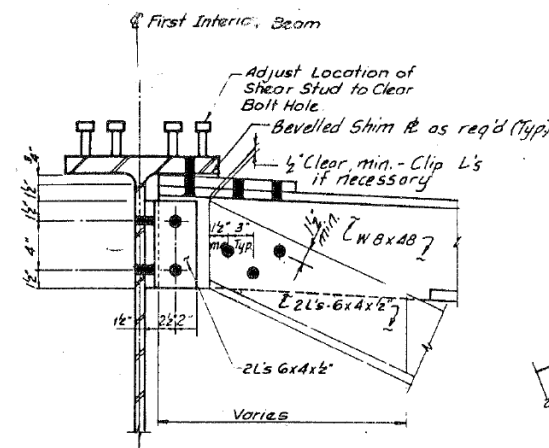
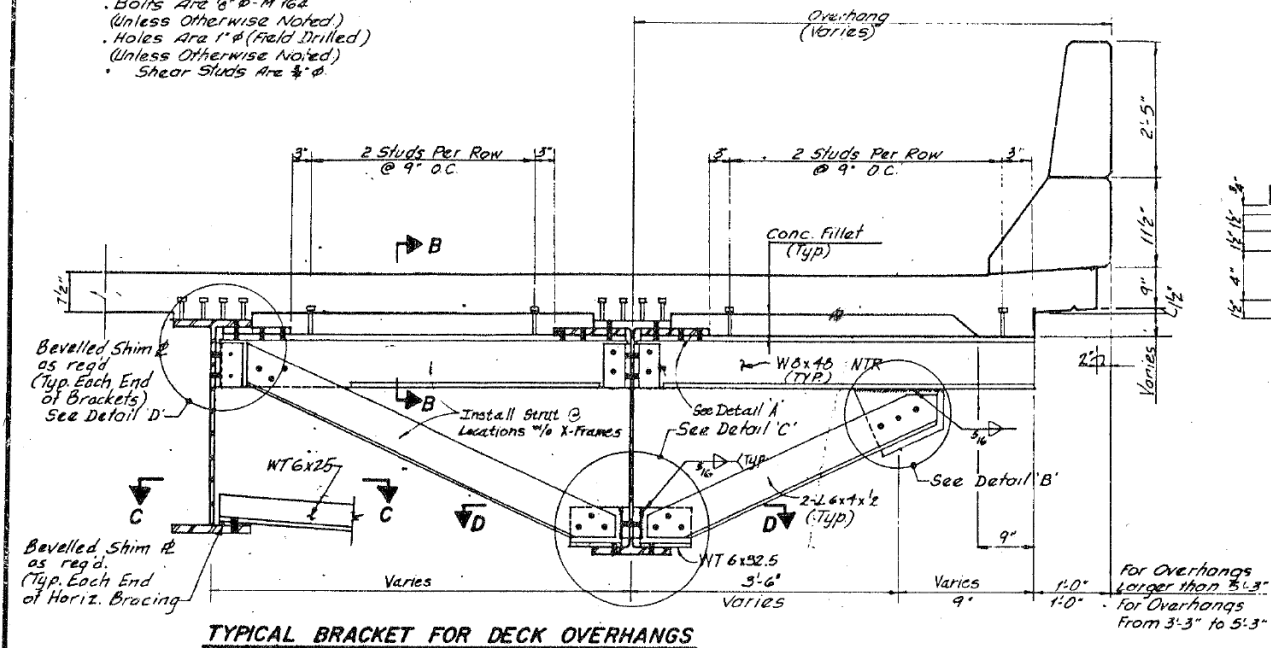
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

REVISIONS	
Name	Date

FOR INFORMATION ONLY

Notes:

- Bolts Are $\frac{3}{4}$ " ϕ -M 16A (Unless Otherwise Noted)
- Holes Are 1" ϕ (Field Drilled) (Unless Otherwise Noted)
- Shear Studs Are $\frac{3}{4}$ " ϕ



FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1	COOK	88	88A
STA.	TO STA.			
FED. RD DIST NO.	ILLINOIS	FED. AID PROJECT		
* 1985-077 B-R				

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAI ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-077 B-R-COOK COUNTY
N.B. MAINLINE RECONSTRUCTION
OVERHANG BRACKET - ALL STRUCTURES
BRACKET FOR DECK OVERHANGS
Scale: NONE
Date: AUGUST, 1988
Drawn by: D.H.
Checked by: W.P.K.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois



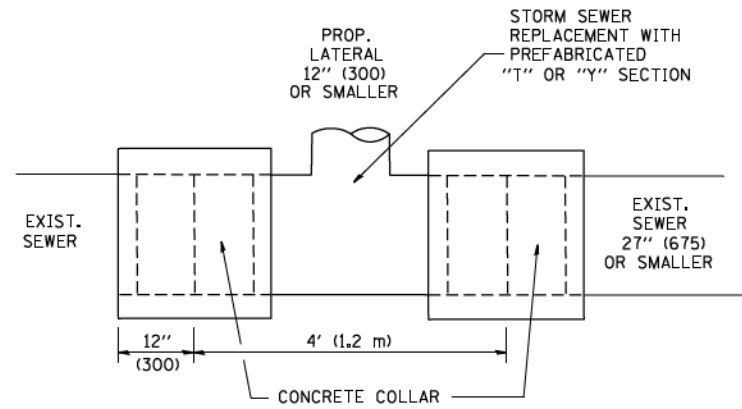
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PLOT DATE = 1/24/2020	DRAWN - JMI	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. 016-1110

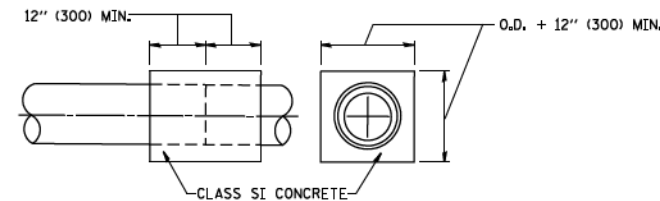
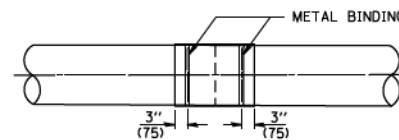
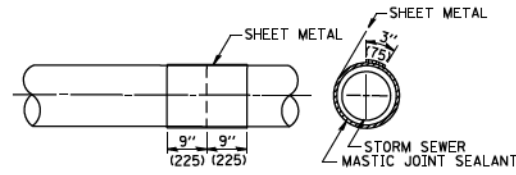
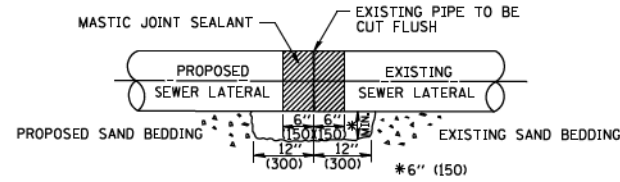
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-019R	COOK	2155	1577
CONTRACT NO. 62A76				

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DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

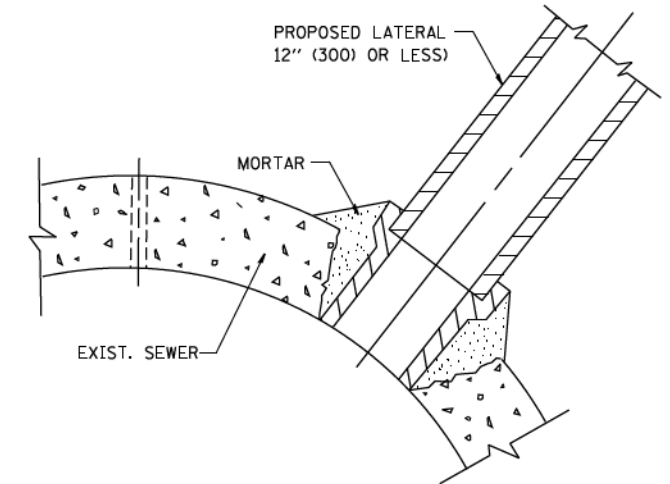


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

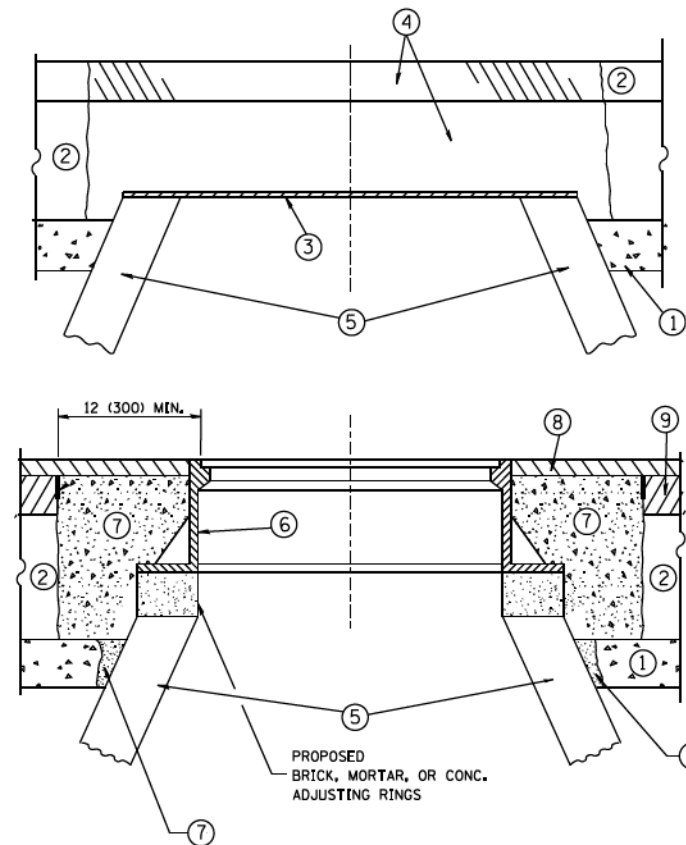
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	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER**

SCALE: NONE SHEET 1 OF 45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			2155	1578
BD500-01 (BD-7)		CONTRACT NO.	62A76	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1# CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1# CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

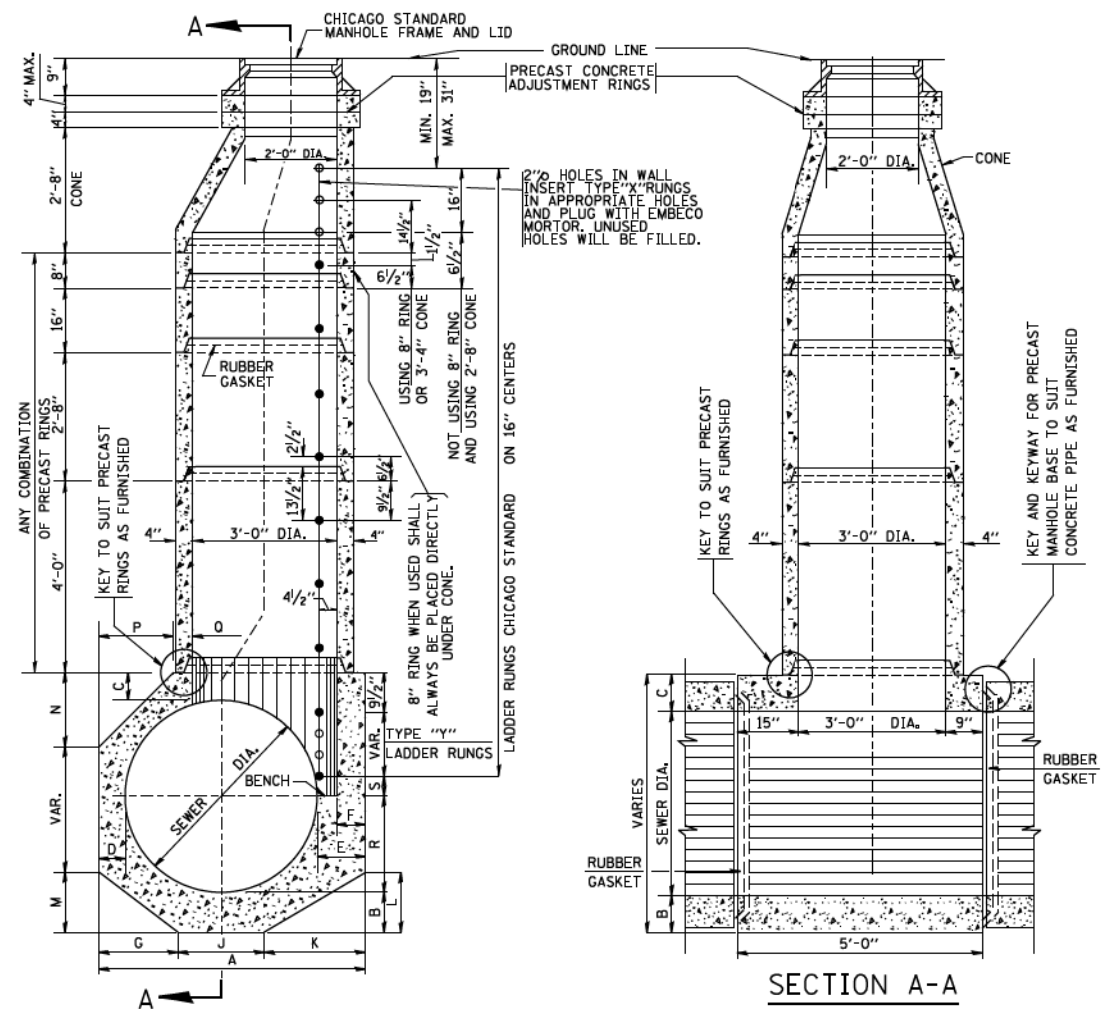
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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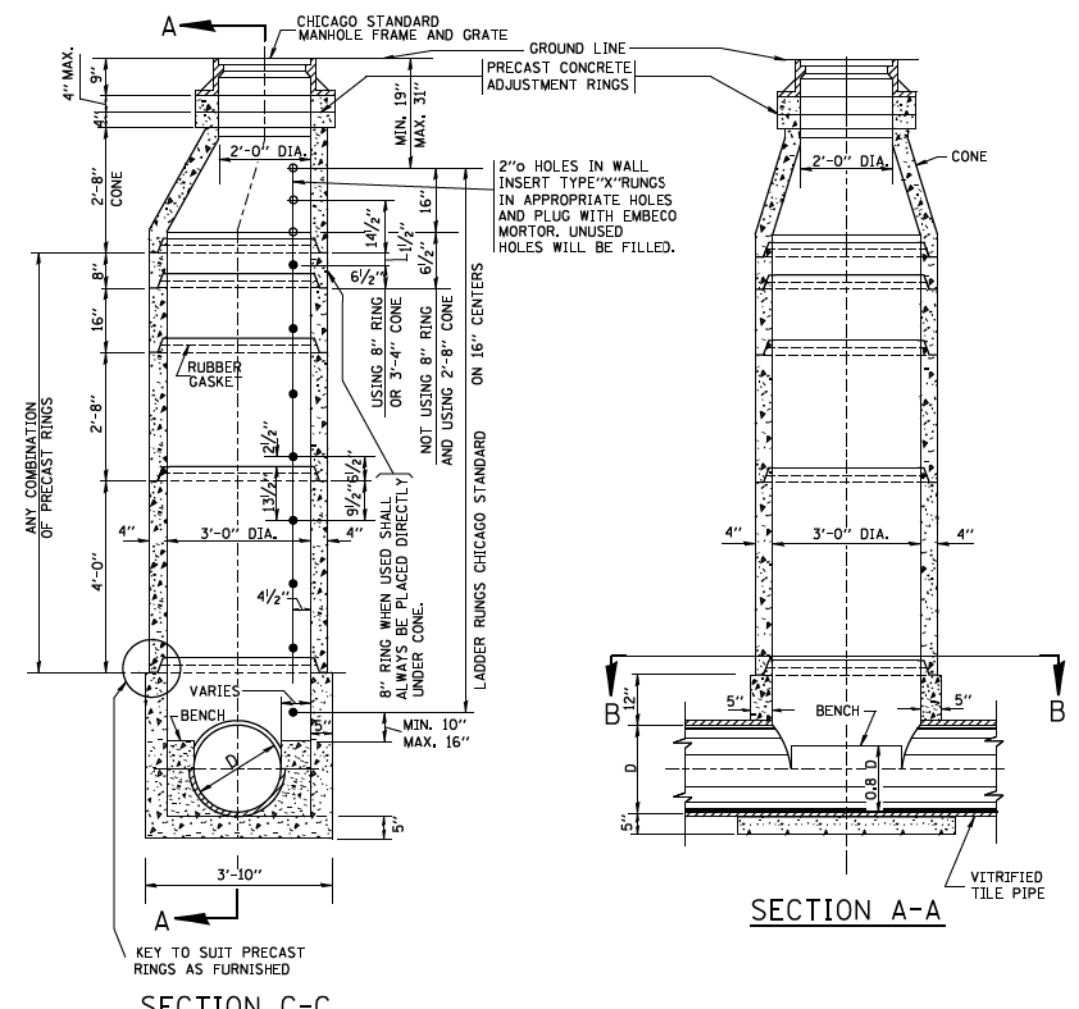
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING			
SCALE: NONE	SHEET 2 OF 45 SHEETS	STA.	TO STA.

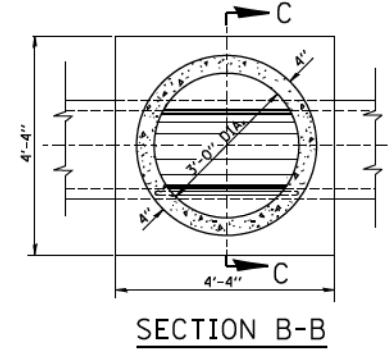
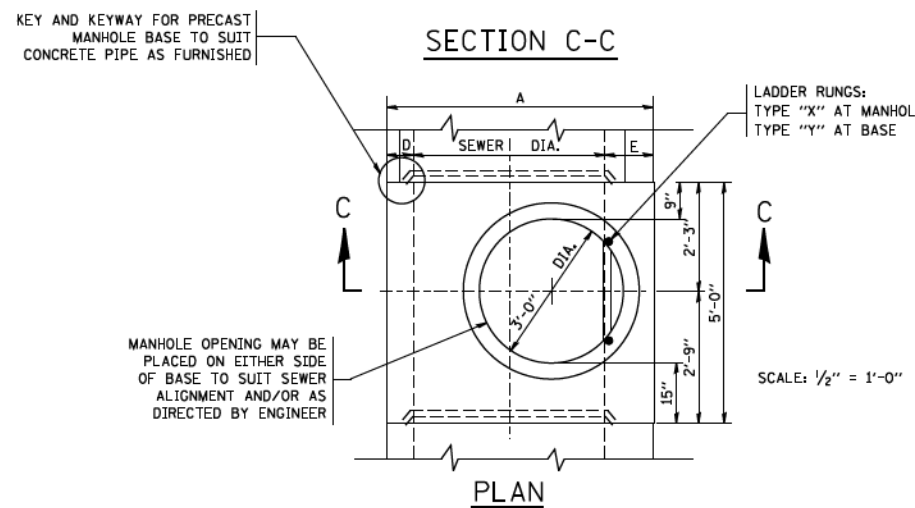
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			2155	1579
BD600-03 (BD-8)		CONTRACT NO.	62A76	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPE "A" MANHOLE
FOR SEWERS
24" TO 120" DIAMETER
PRECAST BASES AND RINGS



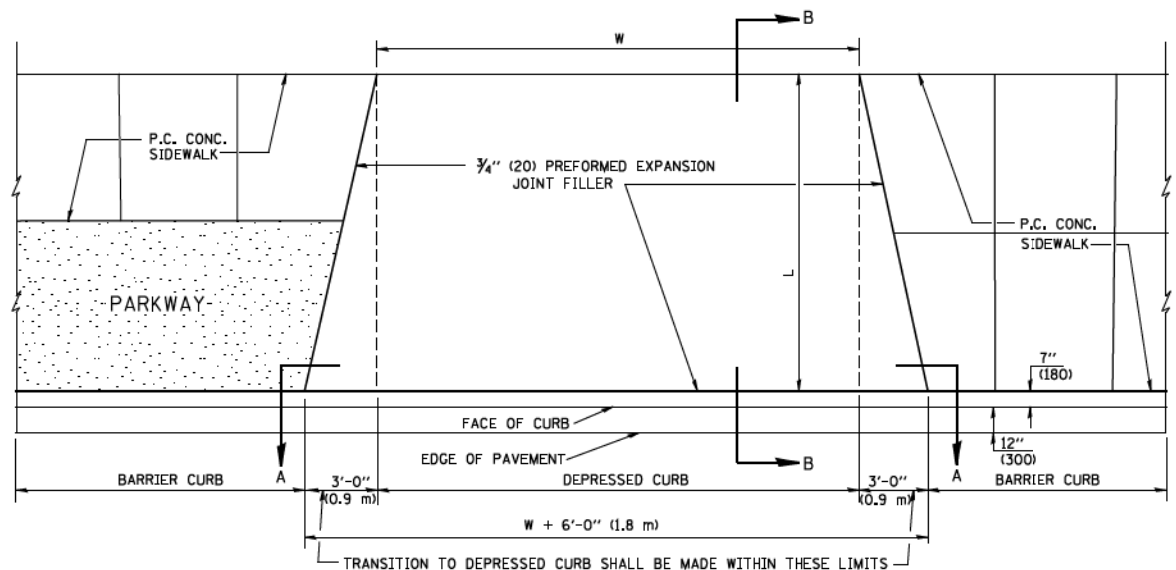
TYPE "A" MANHOLE
FOR SEWERS
21" DIAMETER AND SMALLER
PRECAST BASES AND RINGS



SCALE: 1/2" = 1'-0"

SEWER DIA.	PART OF ITEM	DIMENSIONS OF PRECAST MANHOLE BASE																NO. "Y" RINGS
		A	B	C	D	E	F	G	J	K	L	M	N	P	Q	R		
120"	---	12'-4 1/2"	12"	12"	12"	16 1/2"	12"	4'-0"	4'-0"	4'-4 1/2"	2'-7 1/2"	2'-5"	3'-7"	3'-7"	4'-8 1/2"	2'-0"	2 1/2"	7
108"	---	11'-4 1/2"	12"	12"	12"	16 1/2"	12"	3'-8"	3'-8"	4'-0 1/2"	2'-5"	2'-2"	3'-4"	3'-4"	4'-0 1/2"	2'-0"	6 1/2"	6
102"	---	10'-10 1/2"	12"	12"	12"	16 1/2"	12"	3'-6"	3'-6"	3'-10 1/2"	2'-4"	2'-1"	3'-2"	3'-2"	3'-8 1/2"	2'-0"	16 1/2"	5
96"	10-A	10'-2 1/2"	11"	11"	11"	15 1/2"	11"	3'-3"	3'-3"	3'-8 1/2"	2'-3"	23"	2'-11"	2'-11"	3'-4 1/2"	2'-0"	9 1/2"	5
90"	10-B	9'-8 1/2"	11"	11"	11"	15 1/2"	11"	3'-1"	3'-1"	3'-6 1/2"	2'-1 1/2"	22"	2'-10"	2'-10"	2'-11 1/2"	2'-0"	3 1/2"	5
84"	10-C	9'-0 1/2"	10"	10"	10"	14 1/2"	10"	2'-11"	2'-11"	3'-2 1/2"	23"	21"	2'-7"	2'-7"	2'-7 1/2"	2'-0"	12 1/2"	4
78"	10-D	8'-6 1/2"	10"	10"	10"	14 1/2"	10"	2'-9"	2'-9"	3'-0 1/2"	22"	20"	2'-6"	2'-6"	2'-2 1/2"	2'-0"	6 1/2"	4
72"	10	7'-10 1/2"	9"	9"	9"	13 1/2"	9"	2'-6"	2'-6"	2'-10 1/2"	21"	18"	2'-3"	2'-3"	22 1/2"	2'-0"	15 1/2"	3
66"	11	7'-4 1/2"	9"	9"	9"	13 1/2"	9"	2'-4"	2'-4"	2'-8 1/2"	19 1/2"	17"	2'-1"	2'-1"	18 1/2"	2'-0"	9 1/2"	3
60"	12	6'-8 1/2"	8"	8"	8"	12 1/2"	8"	2'-1 1/2"	2'-1"	2'-6"	18"	15"	23"	23"	13 1/2"	2'-0"	2 1/2"	3
54"	13	6'-2 1/2"	8"	8"	8"	12 1/2"	8"	23 1/2"	23"	2'-4"	17"	14"	21"	21"	9 1/2"	2'-0"	12 1/2"	2
48"	14	5'-6 1/2"	7"	7"	7"	11 1/2"	7"	20 1/2"	21"	2'-1"	15"	12 1/2"	18 1/2"	18 1/2"	5"	2'-0"	5 1/2"	2
42"	15	5'-0 1/2"	7"	7"	7"	11 1/2"	7"	18 1/2"	19"	23"	14"	11"	---	---	17 1/2"	21"	2 1/2"	2
36"	16	4'-4 1/2"	6"	6"	6"	10 1/2"	6"	16"	16"	20 1/2"	12 1/2"	9 1/2"	---	---	10 1/2"	18"	14 1/2"	1
30"	17	4'-0"	6"	6"	6"	12"	6"	14"	14"	20"	12"	8 1/2"	---	---	6"	15"	11 1/2"	1
24"	18	4'-0"	6"	6"	6"	12"	6"	16"	16"	16"	9 1/2"	9 1/2"	---	---	6"	12"	8 1/2"	1

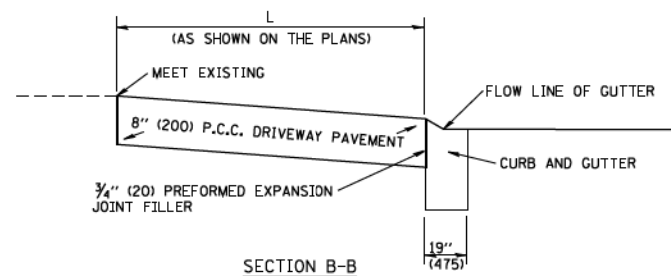
FOR STATE CONTRACT
ALL DIMENSIONS SHOULD
BE PREPARED IN METRIC
UNITS SOFT CONVERSION
METHOD SHOULD BE USED.



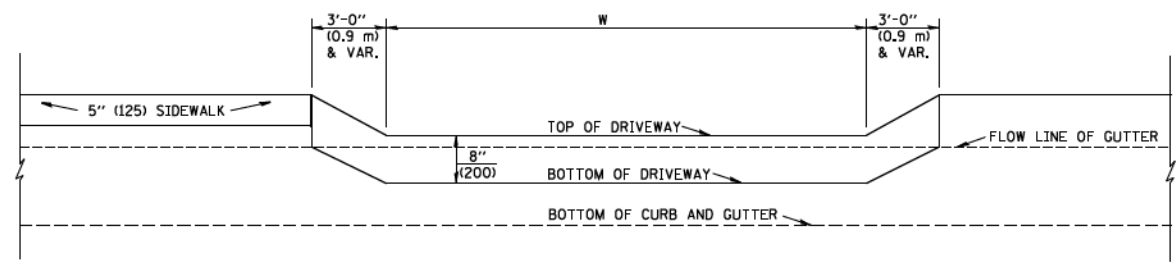
PLAN VIEW

NOTES:

1. EXPANSION JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE DETAILS FOR P.C.C. SIDEWALK.
2. THE CURB BETWEEN ADJACENT DRIVEWAYS SHALL BE FULL HEIGHT FOR A DISTANCE OF AT LEAST FOUR FEET (1.2 METERS)
3. P.C. CONCRETE DRIVEWAYS SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
4. 3/4" (20) PREFORMED EXPANSION JOINTS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO P.C.C. DRIVEWAY PAVEMENT 8" (200).
5. COMBINATION CONC. CURB AND GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE TRANSITION CURB AND GUTTER.

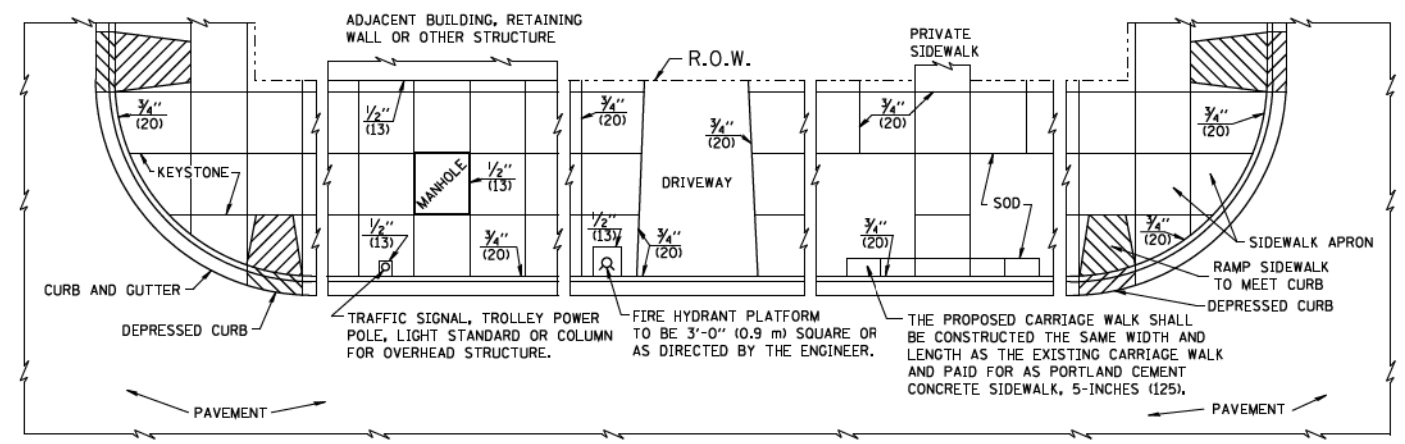


SECTION B-B



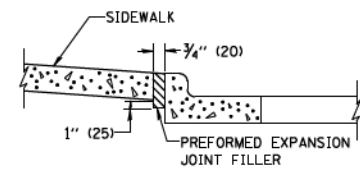
SECTION A-A

P.C.C. DRIVEWAY PAVEMENT DETAIL



NOTES:

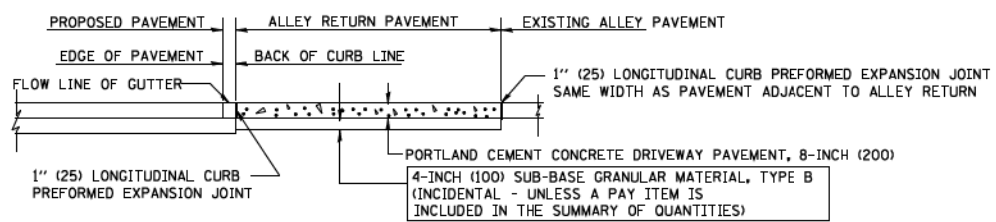
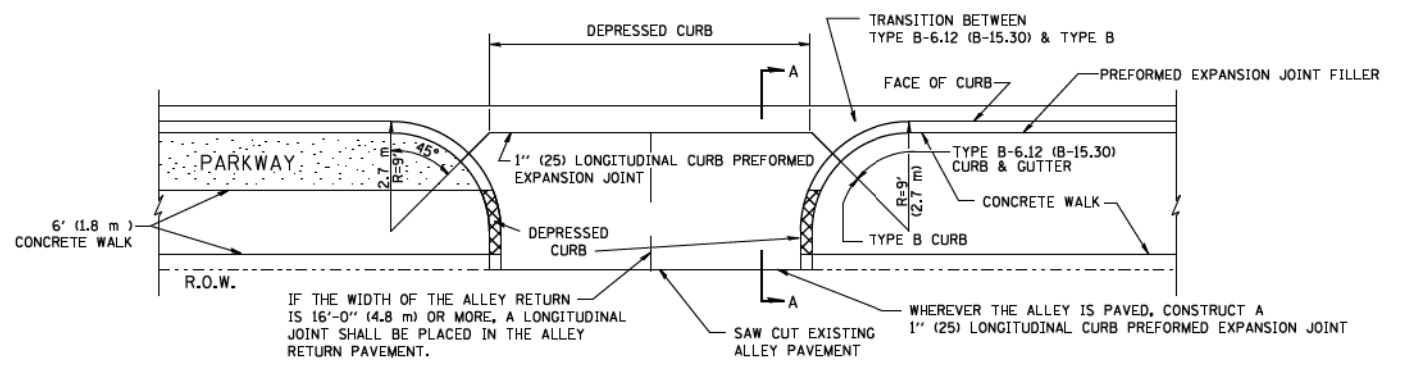
1. ONE-HALF INCH THICK EXPANSION JOINTS SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES SUCH AS LIGHT STANDARDS, TRAFFIC LIGHT STANDARDS, MANHOLES, WHICH EXTEND THROUGH THE SIDEWALK.
2. 3/4" (20) THICK EXPANSION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 100 FEET (30 METERS) IN THE SIDEWALK. WHERE THE SIDEWALK IS CONSTRUCTED ADJACENT TO PAVEMENT OR CURB HAVING EXPANSION JOINTS, THE EXPANSION JOINTS IN THE SIDEWALK SHALL BE PLACED OPPOSITE THE EXISTING EXPANSION JOINTS AS NEARLY AS PRACTICABLE. EXPANSION JOINTS SHALL ALSO BE PLACED WHERE THE SIDEWALK ABUTS EXISTING SIDEWALKS, BETWEEN DRIVEWAY PAVEMENT AND SIDEWALK, AND BETWEEN SIDEWALK AND CURBS WHERE THE SIDEWALK ABUTS A CURB.



SLOPE FOR SIDEWALK
1" (25) IN 3'-0" (0.9 m) IN CHICAGO

PORTLAND CEMENT CONCRETE SIDEWALK DETAILS

NOTES: NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE GUTTER FLARE



SECTION A-A

ALLEY RETURN DETAIL

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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USER NAME = geglanoht
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PLOT DATE = 1/4/2008

DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 06-13-90

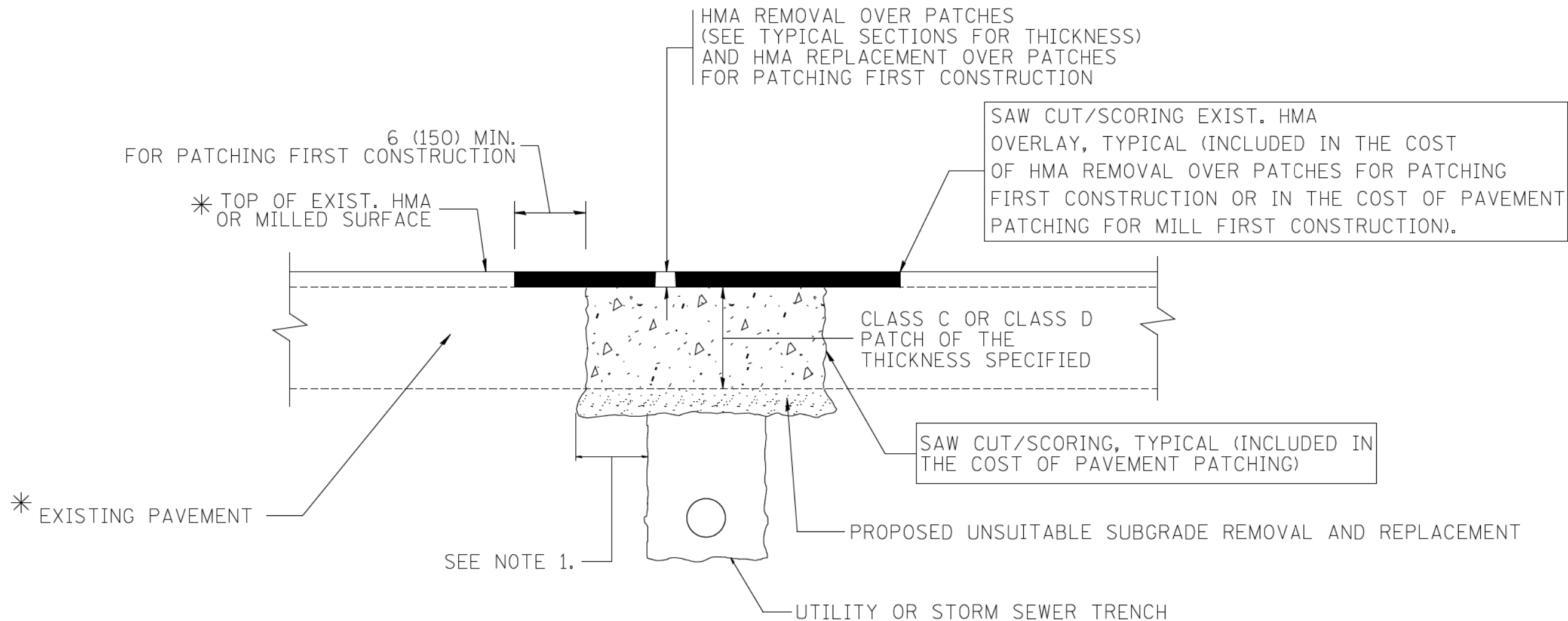
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
DETAILS FOR P.C. CONCRETE DRIVEWAY, ALLEY RETURN AND SIDEWALK

SCALE: NONE SHEET 4 OF 45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BD400-03	(BD-17)		2155	1581
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

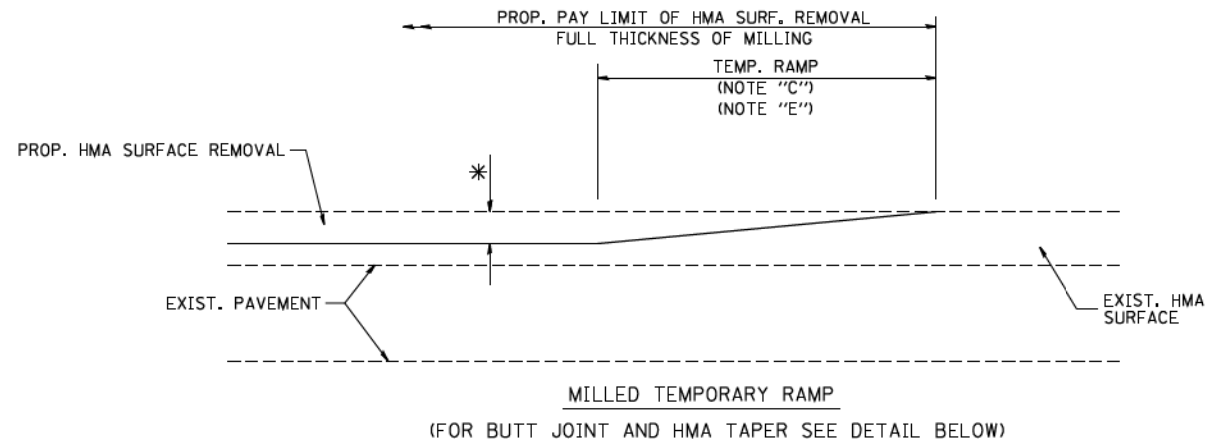
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

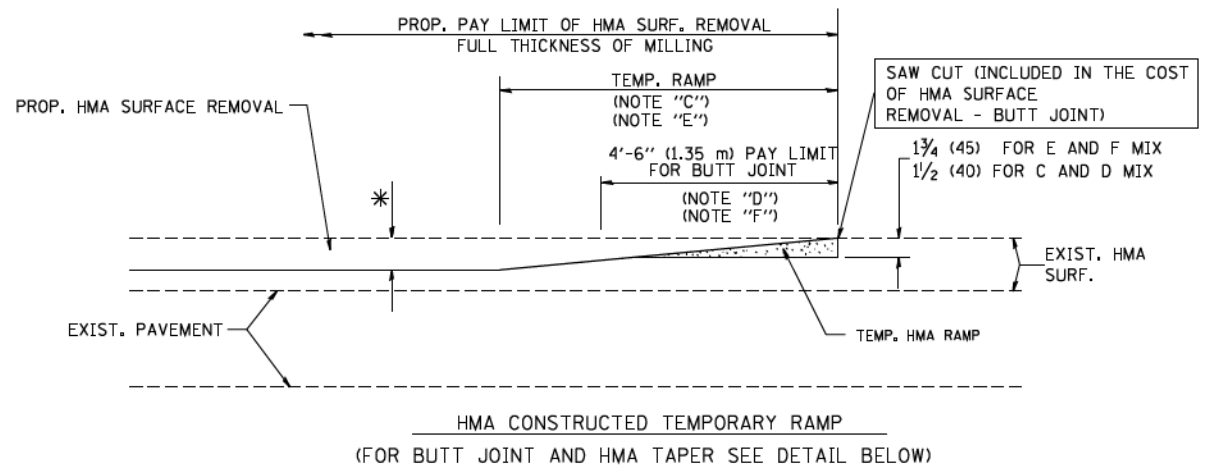
1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

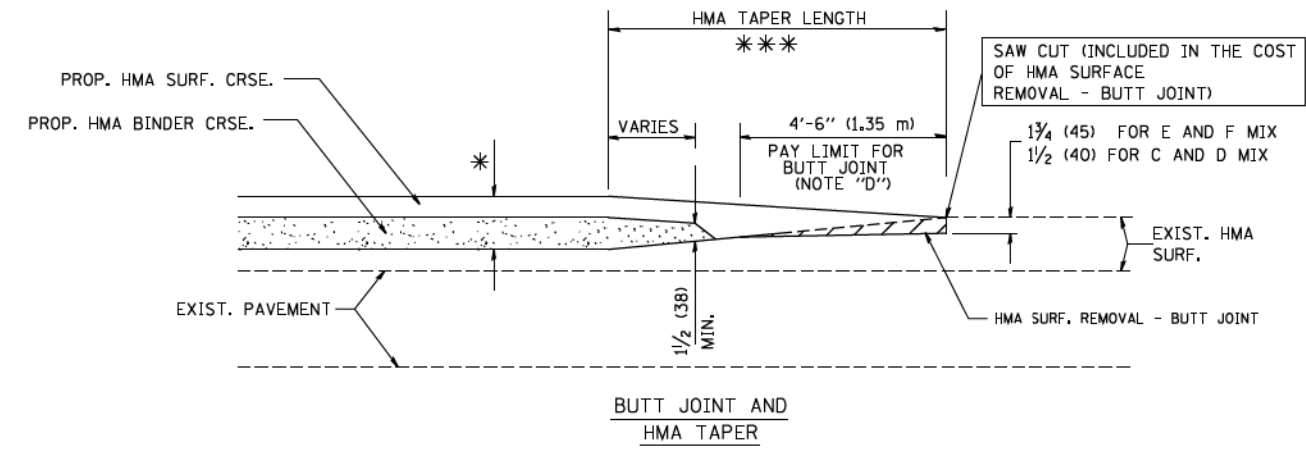
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		DRAWN -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET 5 OF 45 SHEETS	STA.	TO STA.	BD400-04 (BD-22)	CONTRACT NO. 62A76	2155	1582
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		PLOT DATE = 10/27/2000	REVISED - K. ENG 10-27-08									



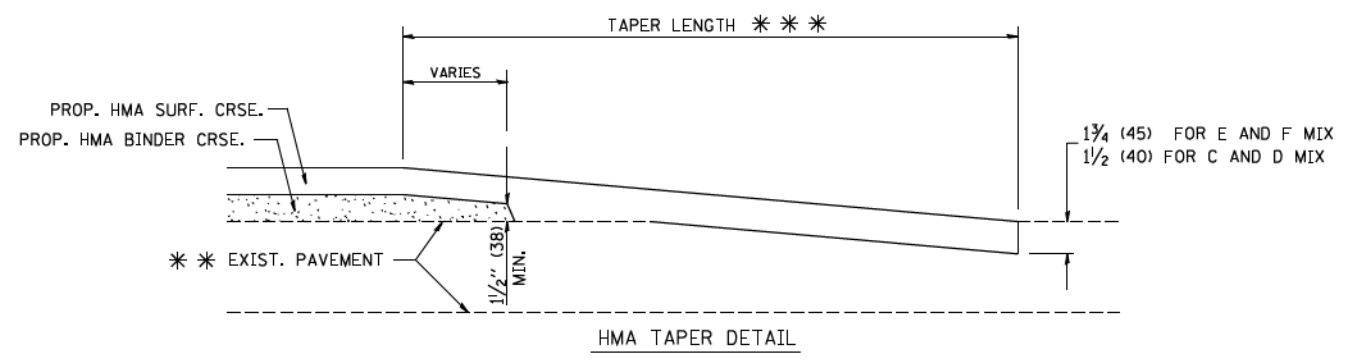
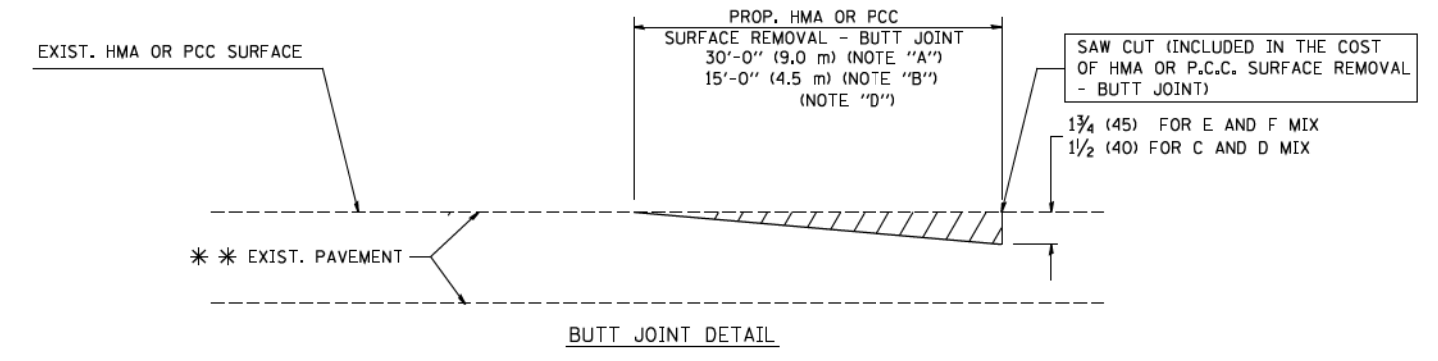
OPTION 1



OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

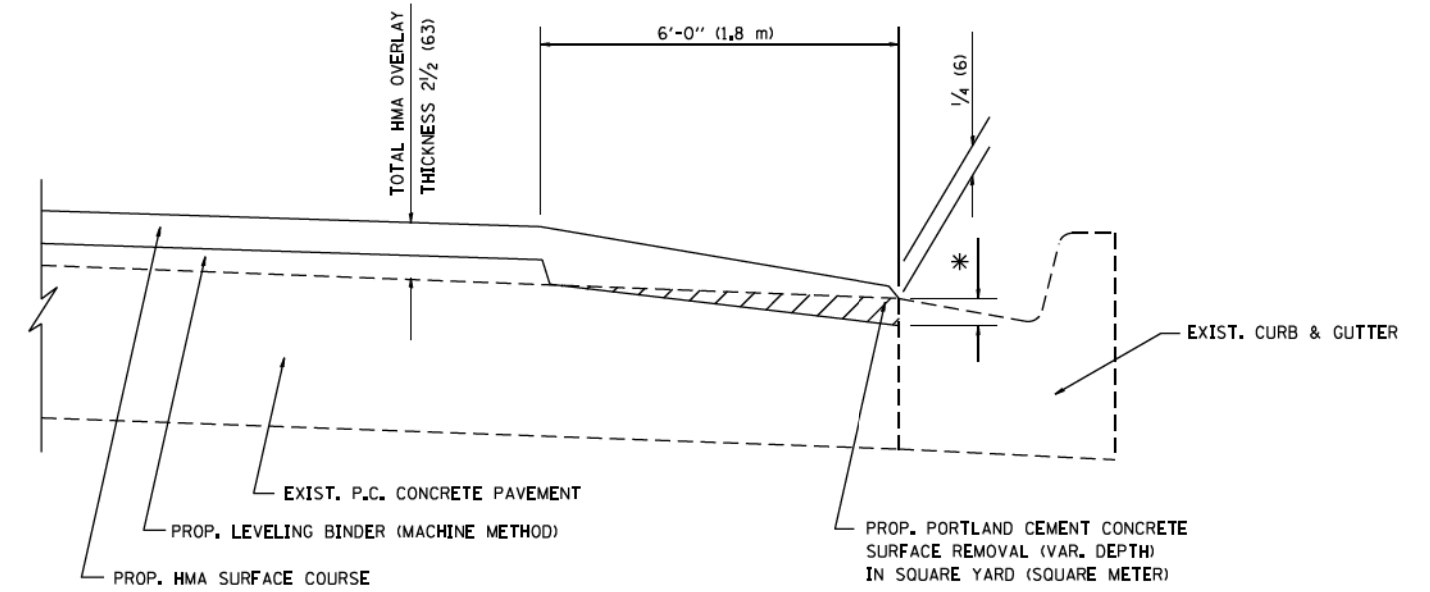
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		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 6 OF 45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			2155	1583
BD400-05 BD32		CONTRACT NO.	62A76	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



HMA TAPER AT
EDGE OF P.C.C. PAVEMENT

HMA SURFACE		LEVELING BINDER	
MIX	THICKNESS	THICKNESS	* MILLING AT GUTTER FLAG
C OR D	1 1/2 (38)	1 (25)	1/4 (33)
E	1 3/4 (44)	3/4 (19)	1/2 (38)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

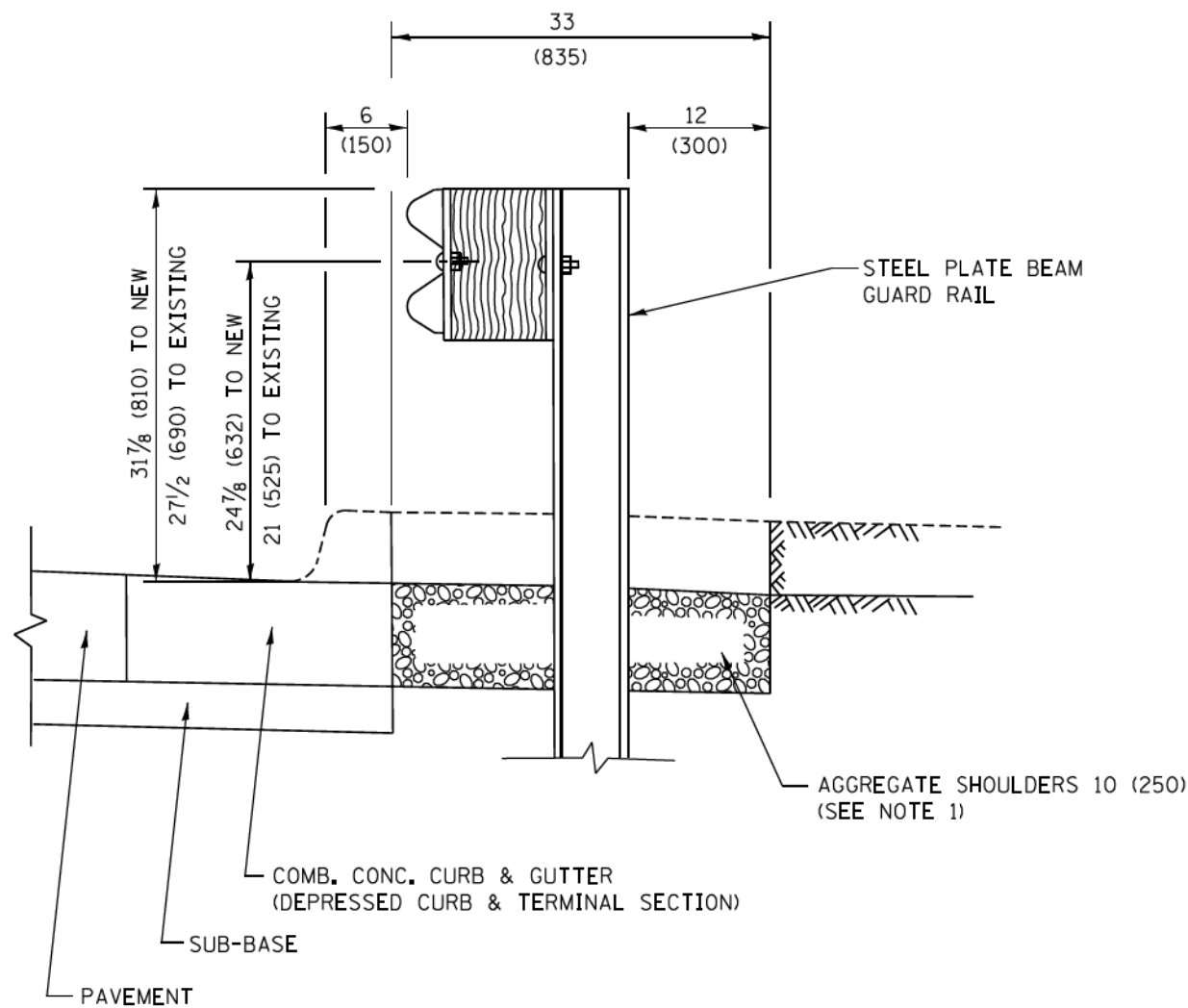
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pw\11.084680INTEG.illinois.gov\FWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\BRM\CADData\CAD\Sheets\bd33.dgn		CHECKED - A. ABBAS	REVISED - E. GOMEZ 12-21-00
Default	PLOT SCALE = 100.0000' / 1" / 1" / 1"	DATE - 09-10-94	REVISED - R. BORO 01-01-07
			REVISED - JP CHANG 07-08-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HMA TAPER AT
EDGE OF P.C.C. PAVEMENT**

SCALE: NONE SHEET 7 OF 45 SHEETS STA. TO STA.

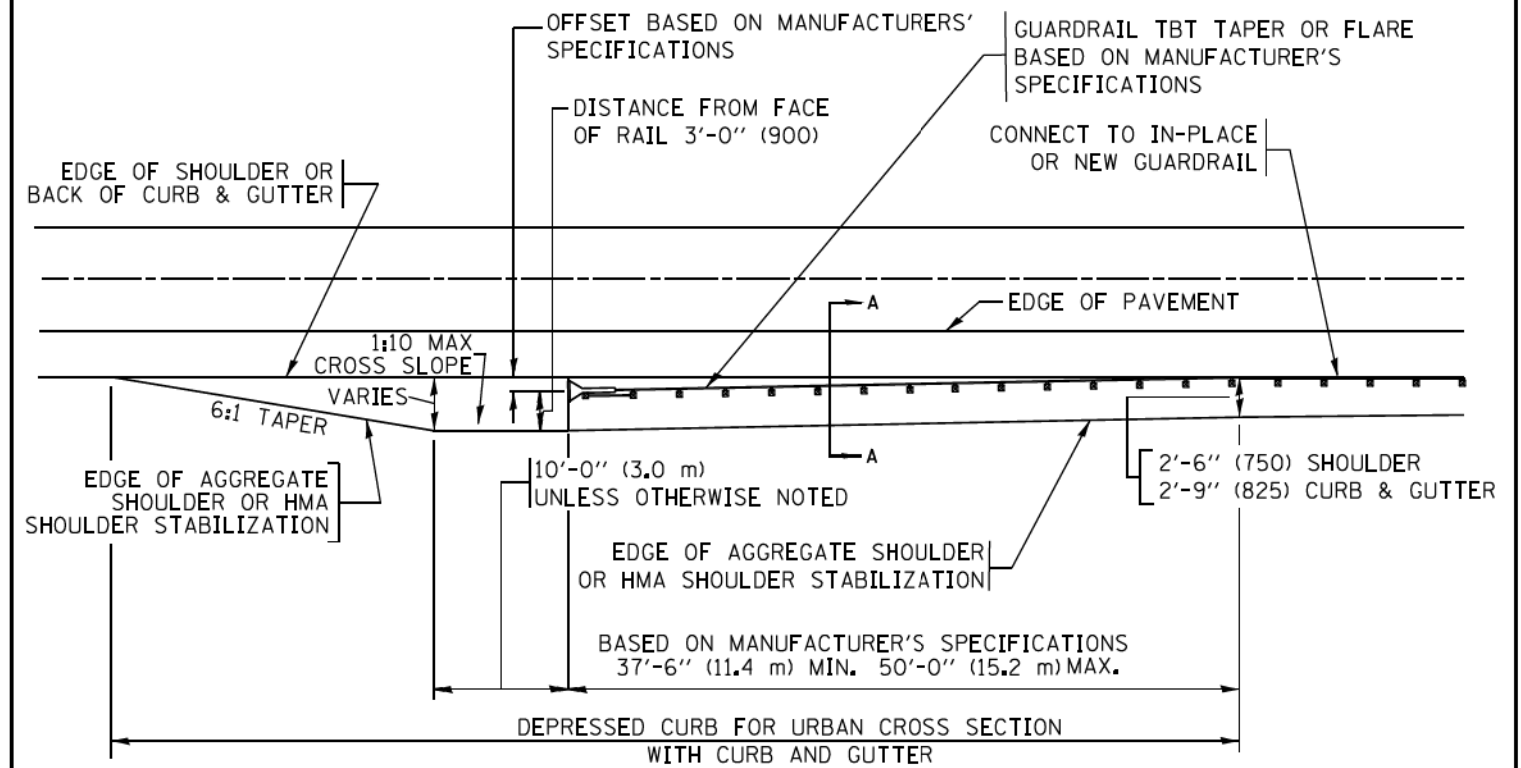
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BD400-06	(BD33)		2155	1584
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME :	USER NAME = draykosgn	DESIGNED - M. DE YONG	REVISED - R. BORO 12-08-2008
pw\11884EBID\INTEG\Illinois.gov\FWDDT\Documents\DOT Offices\District 1\Projects\Dist 1\B2\B2\B2\CAD\Detail\CAD\Sheets\bd34.dgn			REVISED - R. BORO 09-14-2009
		CHECKED -	REVISED - R. BORO 08-06-2012
	PLOT DATE = 12/21/2015	DATE - 09-22-90	REVISED - R. BORO 05-08-2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY.1 SPL.

SCALE: NONE SHEET 8 OF 45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD600-10 (BD 34)		2155	1585
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

GENERAL NOTES

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN (10') OR LESS.

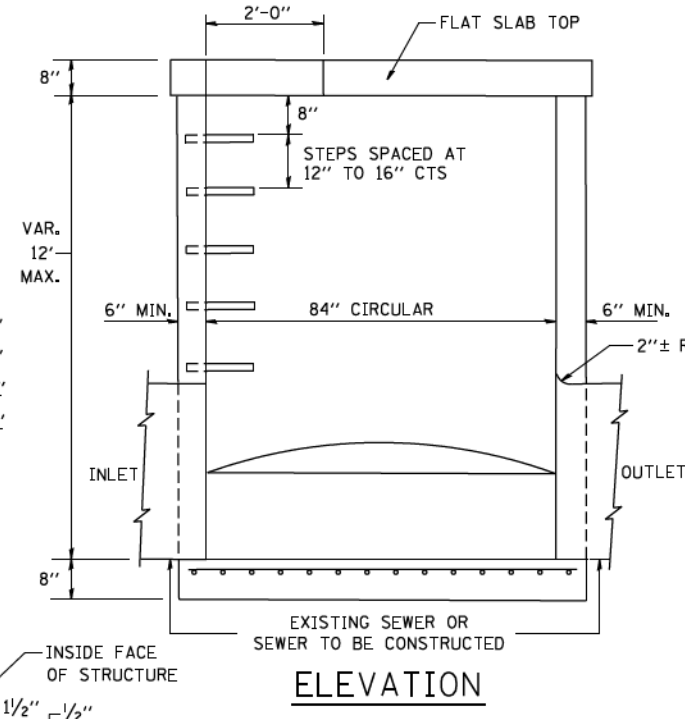
IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

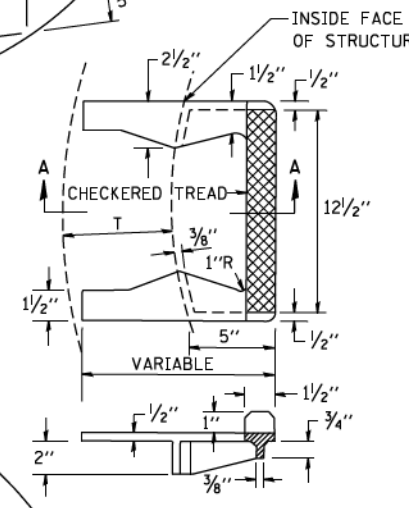
BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

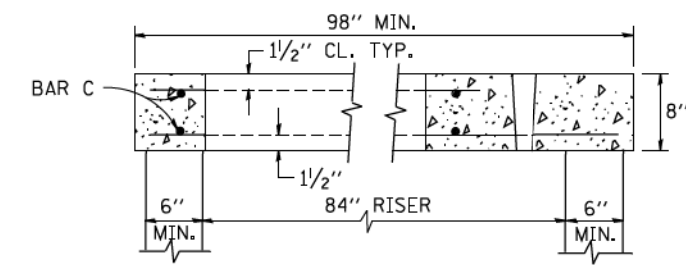
LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.



ELEVATION

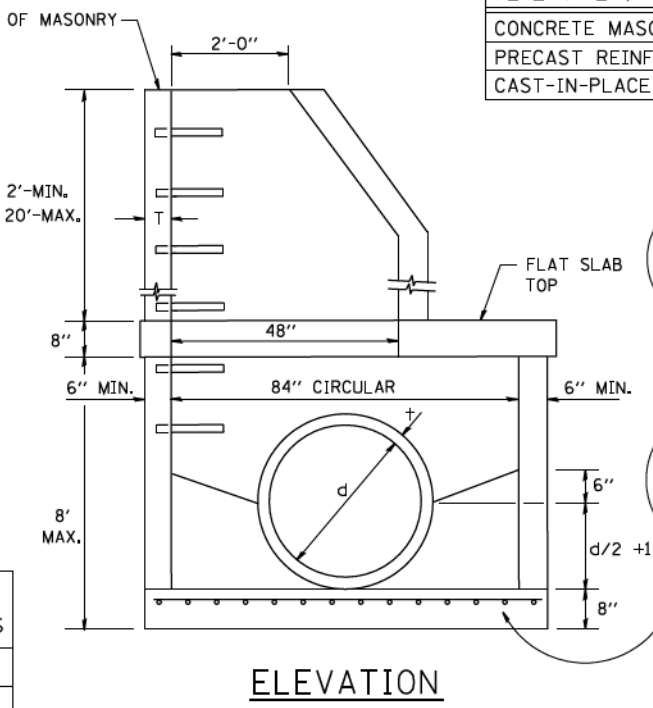


**SEC. A-A
CAST IRON STEPS**

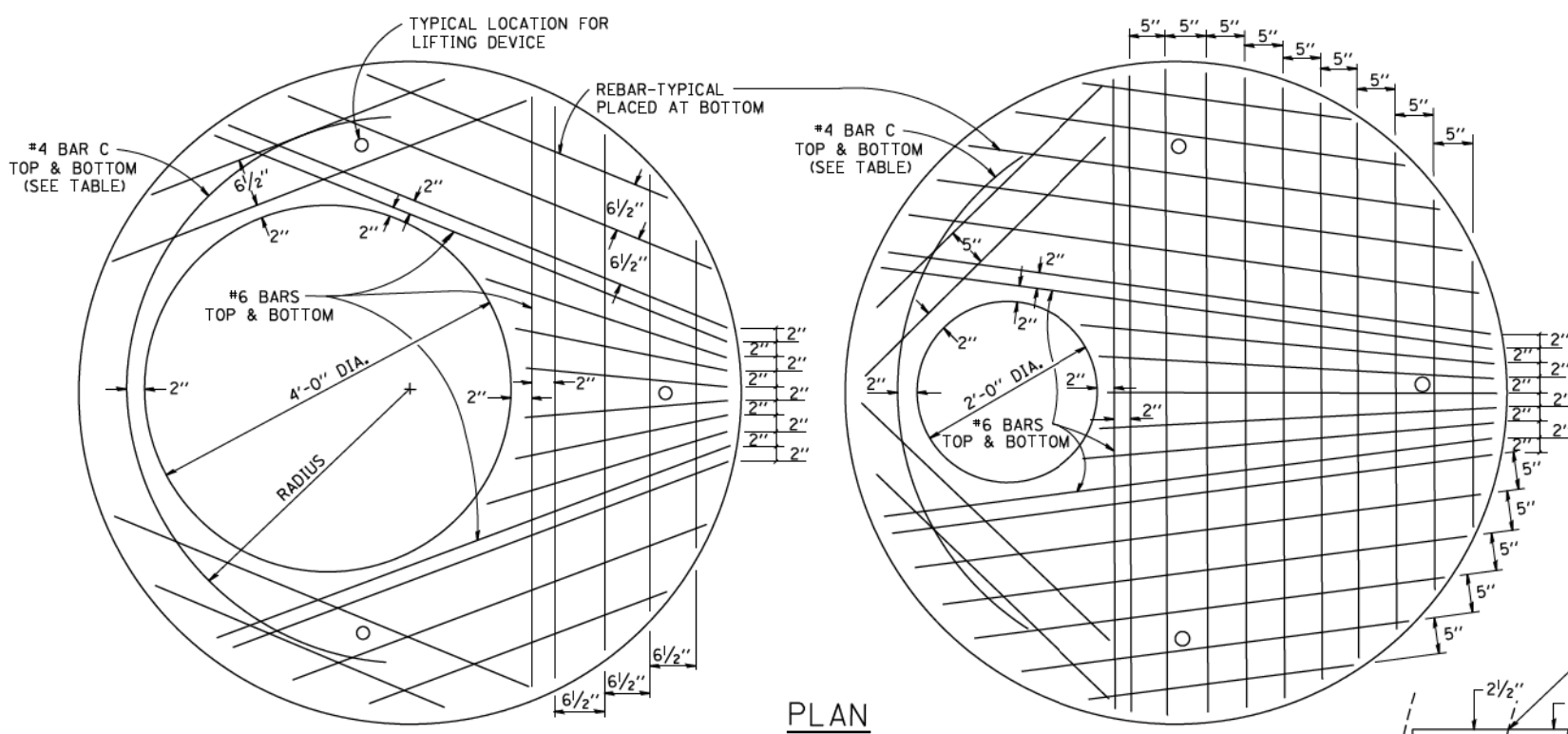
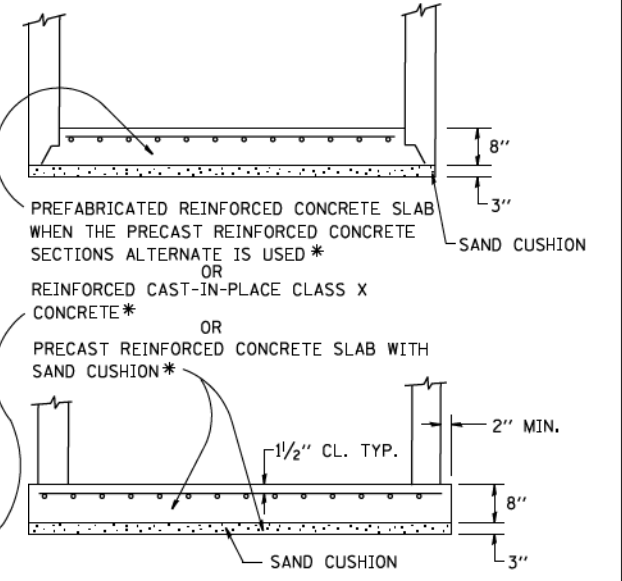


SECTION B-B

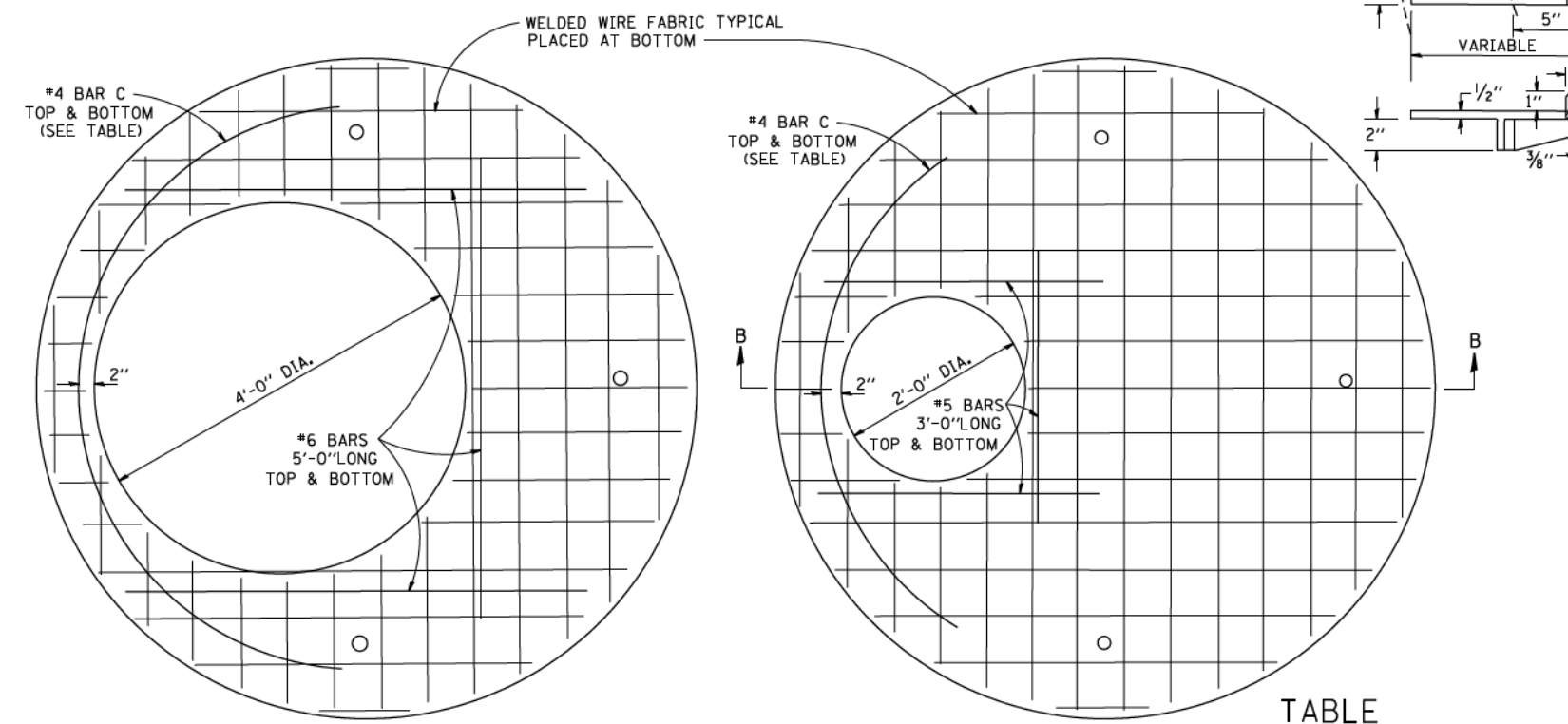
ALTERNATE MATERIALS FOR RISERS	T (MIN.)
CONCRETE MASONRY UNITS	5"
PRECAST REINFORCED CONCRETE SECTIONS	4"
CAST-IN-PLACE CONCRETE	6"



ELEVATION



**PLAN
SHOWING REBAR REINFORCEMENT**



**PLAN
SHOWING WELDED WIRE FABRIC REINFORCEMENT**
NOTE: THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.

TABLE

DIAMETER OF OPENING	REINFORCEMENT "A" WWF OR BAR SIZE EACH DIRECTION	BAR SIZE	BAR C		
			SIZE	LENGTH	RADIUS
2'-0"	1.06 SQ.IN./LIN.FT.	#6	#4	6'-0"	38"
4'-0"	0.82 SQ.IN./LIN.FT.	#6	#4	9'-0"	38"

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PLOT SCALE = 50.0000 / IN.
PLOT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED -
DATE - 10-18-02

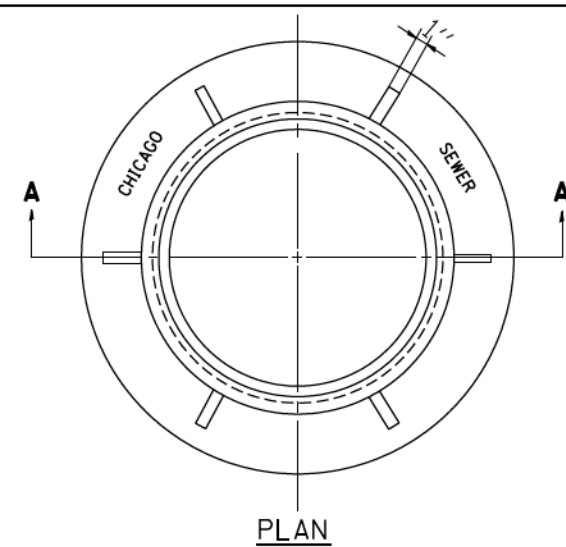
REVISED -
REVISED -
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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

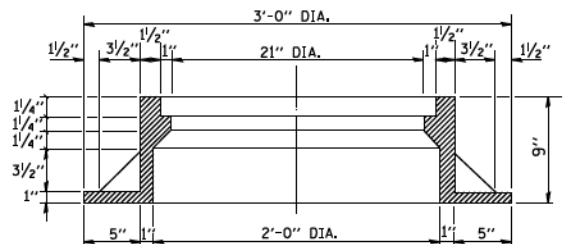
**MANHOLE TYPE A
7 FOOT DIAMETER**

SCALE: NONE SHEET 9 OF 45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD600-11 (BD-37)		2155	1586
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	



PLAN

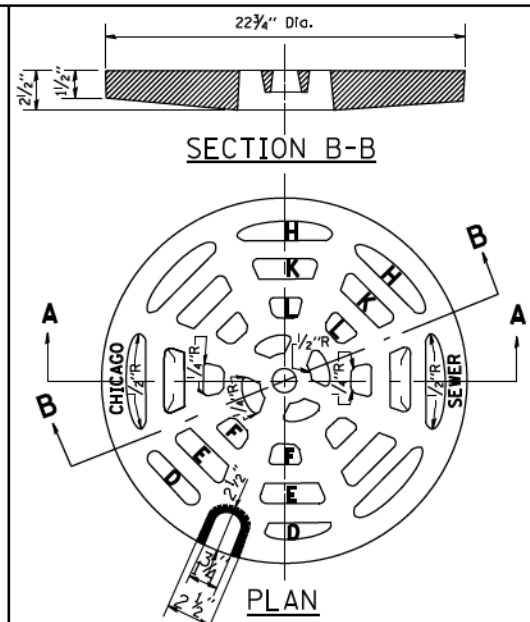


SECTION A-A

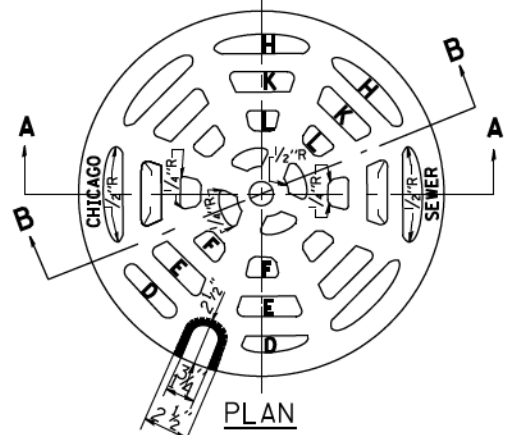
NOTE: METAL PLATES MUST BE FURNISHED FOR PERFORATED LIDS ON MANHOLES

CHICAGO STANDARD MANHOLE FRAME

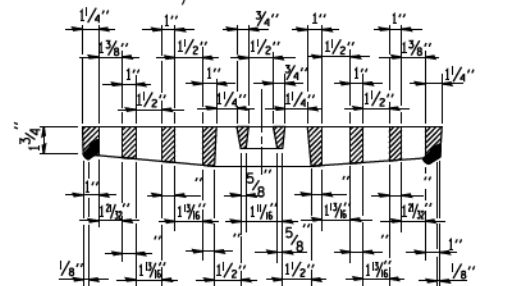
SCALE: 1/2"=1'-0"
MATERIAL: CAST IRON



SECTION B-B



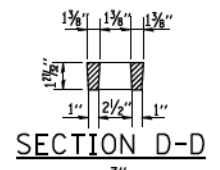
PLAN



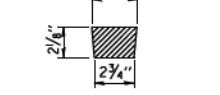
SECTION A-A

PERFORATED LID FOR CATCH BASINS & MANHOLES

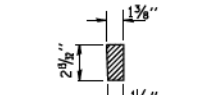
SCALE: 2"=1'-0"
MATERIAL: CAST IRON



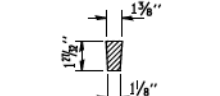
SECTION D-D



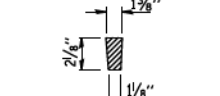
SECTION E-E



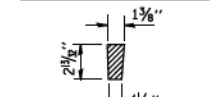
SECTION F-F



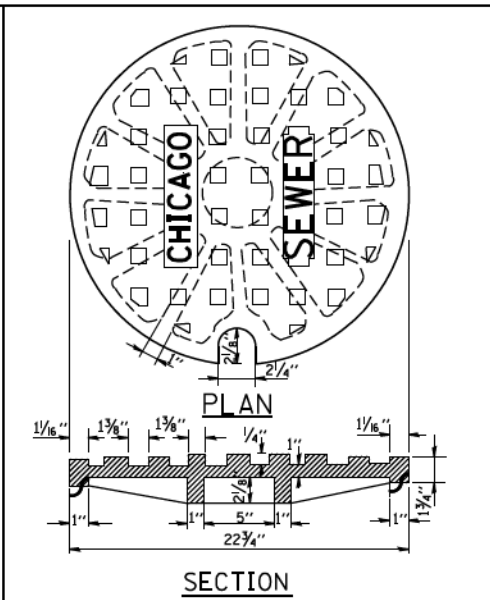
SECTION H-H



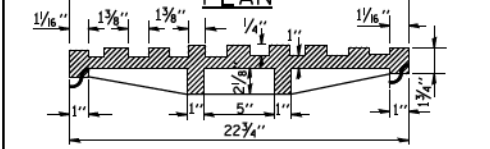
SECTION K-K



SECTION L-L



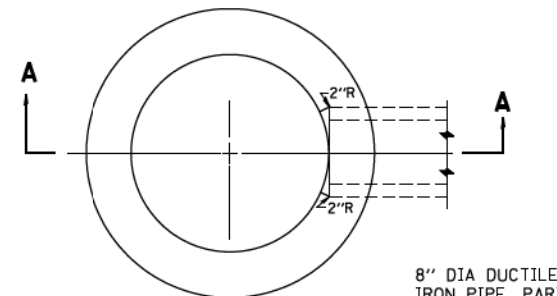
PLAN



SECTION

SOLID LID FOR MANHOLES

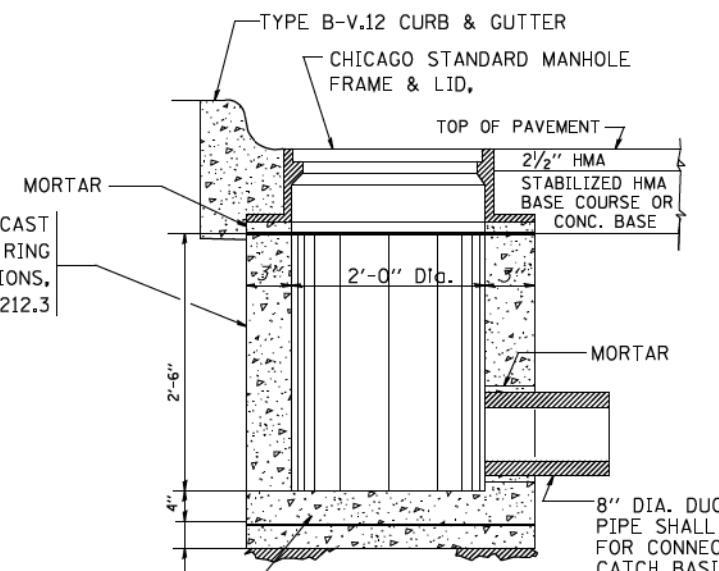
SCALE: NONE
MATERIAL: CAST IRON



PLAN

(FRAME & LID NOT SHOWN)

8" DIA DUCTILE IRON PIPE, PART OF ITEM 7G



SECTION A-A

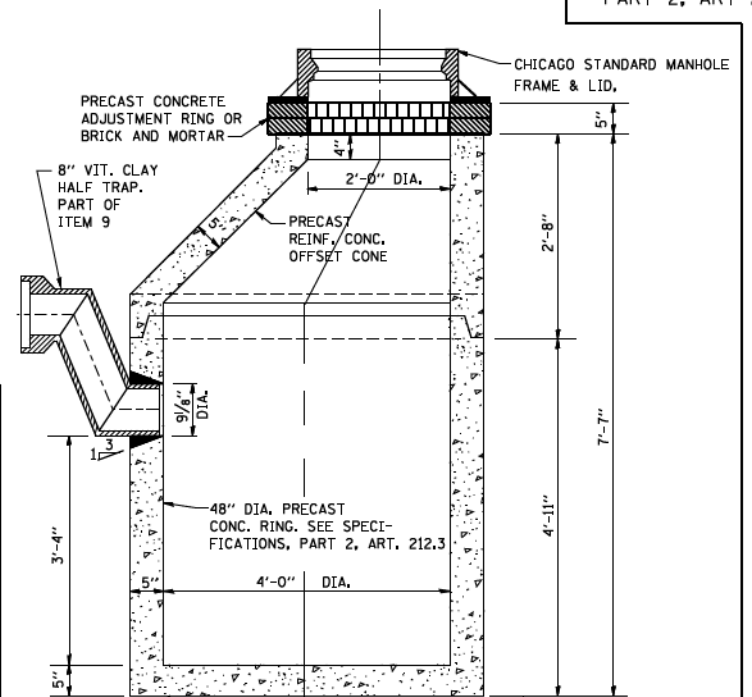
REINF. CONC. BASE CAST AS INTEGRAL PART OF 24" DIA. PRECAST CONC. RING
6" MINIMUM GRANULAR EMBEDMENT UNDER ALL INLETS. FURNISHING AND INSTALLING GRANULAR EMBEDMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 12

STANDARD INLETS

SCALE 1"=1'-0"
ITEM 12

THIS INLET DETAIL IS SOMETIMES REFERRED TO AS "CHICAGO STANDARD INLET, TYPE A"

NOTE: INLETS SHALL NOT BE CONSTRUCTED UNLESS IT IS IMPOSSIBLE TO CONSTRUCT A CATCH BASIN. THE CONTRACTOR SHALL HAVE THE DEPARTMENT OF SEWERS APPROVAL BEFORE CONSTRUCTING INLETS.

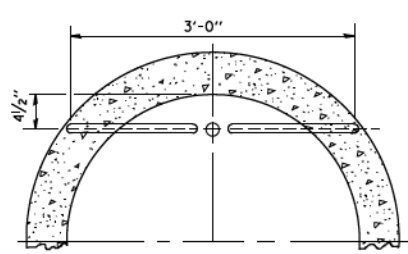


PRECAST

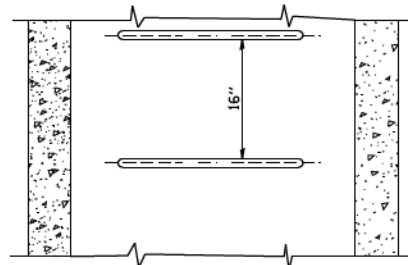
NOTE: 6" MINIMUM GRANULAR EMBEDMENT UNDER ALL CATCH BASINS

STANDARD CATCH BASINS

SCALE: 3/4"=1'-0"
ITEM 9

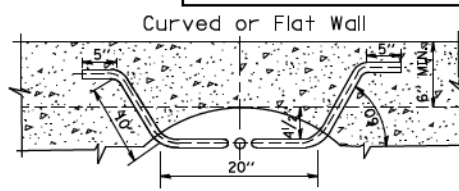


PLAN

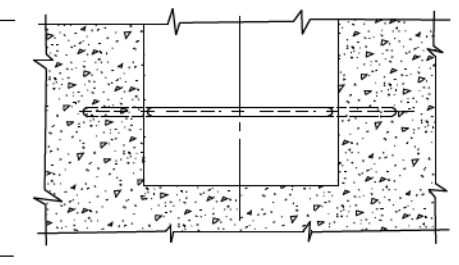


ELEVATION

TYPE X
SCALE: 1"=1'-0"

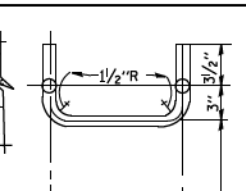


PLAN

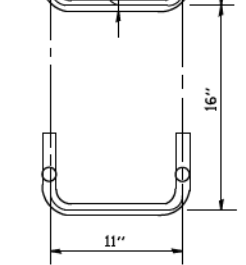


ELEVATION

TYPE Y
SCALE: 1"=1'-0"



PLAN



ELEVATION

SPACING

HANDHOLD-TYPE Z RUNG
Scale: 1/2"=1'-0"

STANDARD LADDER RUNGS

ALL LADDER RUNGS SHALL BE ALUMINUM OR GALVANIZED WROUGHT IRON AS SPECIFIED IN THE SPECIFICATIONS, PART 2, ARTICLE 214.2. RUNGS SHALL BE 1" DIAMETER OR OF A SHAPE HAVING AN EQUIVALENT CROSS-SECTIONAL AREA.

FILE NAME =	USER NAME = geglano
W:\dstd\22x34\bd47.dgn	

DESIGNED - M. GOMEZ	REVISED -
DRAWN -	REVISED -
PLOT SCALE = 50.0000 / IN.	REVISIONS -
CHECKED -	REVISIONS -
DATE - 01-25-01	REVISIONS -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

CITY OF CHICAGO	
CATCH BASIN, INLET AND MANHOLE DETAILS	
SCALE: NONE	SHEET 10 OF 45 SHEETS
STA. TO STA.	

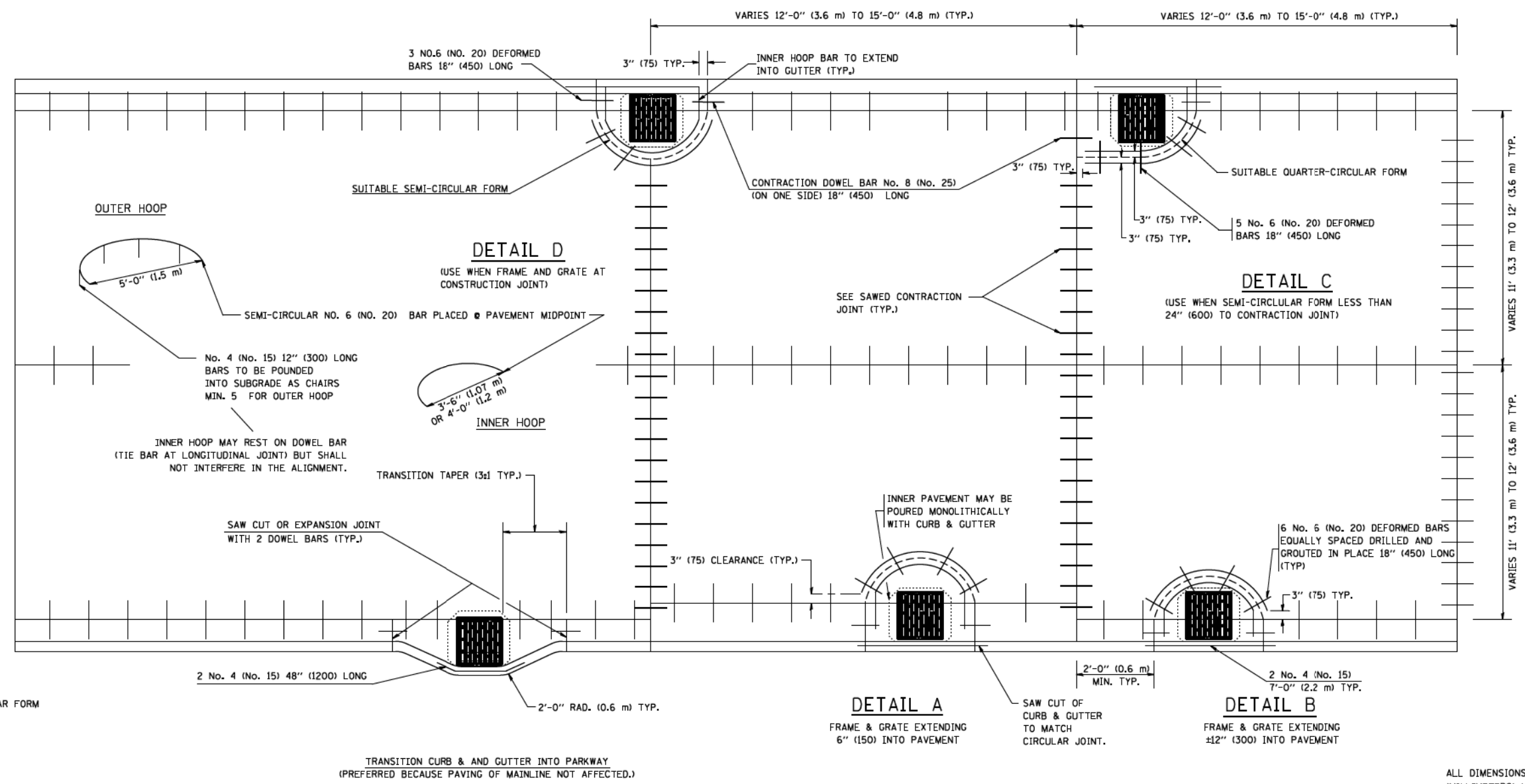
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			2155	1587
BD600-13 (BD47)			CONTRACT NO. 62A76	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CITY OF CHICAGO	
DEPARTMENT OF SEWERS	
ENGINEERING DIVISION	

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

DESIGNER NOTE:
THIS DETAIL IS TO BE USED
WHEN THE GUTTER FLAG IS
LESS THAN 24"

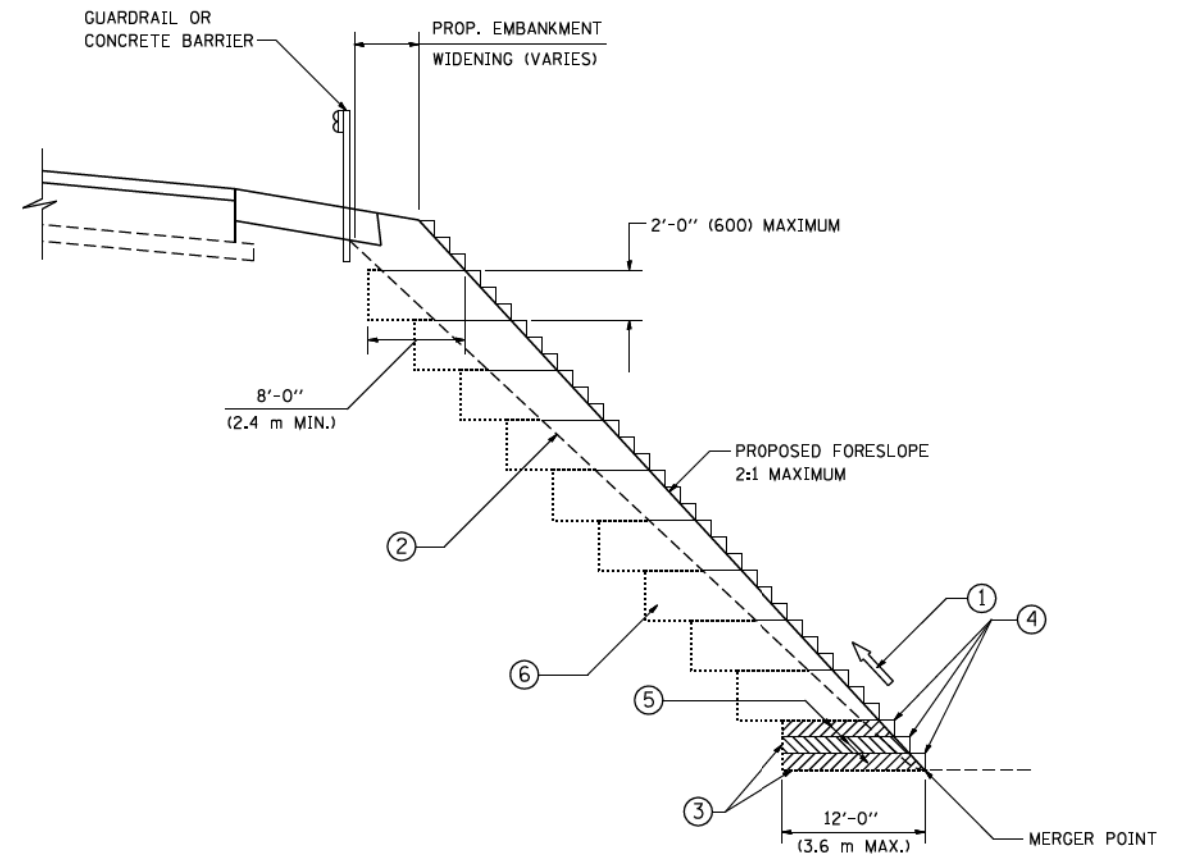
- NOTES :
1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
 2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT, EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
 3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
 4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
 5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
 6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
 7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
 8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
 9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.



LEGEND:
 CASTING
 - - - - - SUITABLE SEMI-CIRCULAR FORM

ALL DIMENSIONS ARE IN INCHES
(MILLIMETERS) UNLESS OTHERWISE NOTED

FILE NAME = W:\diststd\22x34\bd48.dgn	USER NAME = geglano	DESIGNED - A. ABBAS	REVISED - T. MATOUSEK 08-28-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000 / IN.	DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 10-02-00		SCALE: NONE	SHEET 11 OF 45 SHEETS	STA. TO STA.	BD-48			2155	1588
	PLOT DATE = 1/4/2008	CHECKED - A. ABBAS	REVISED - T. MATOUSEK 04-25-02									
		DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02					FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62A76												



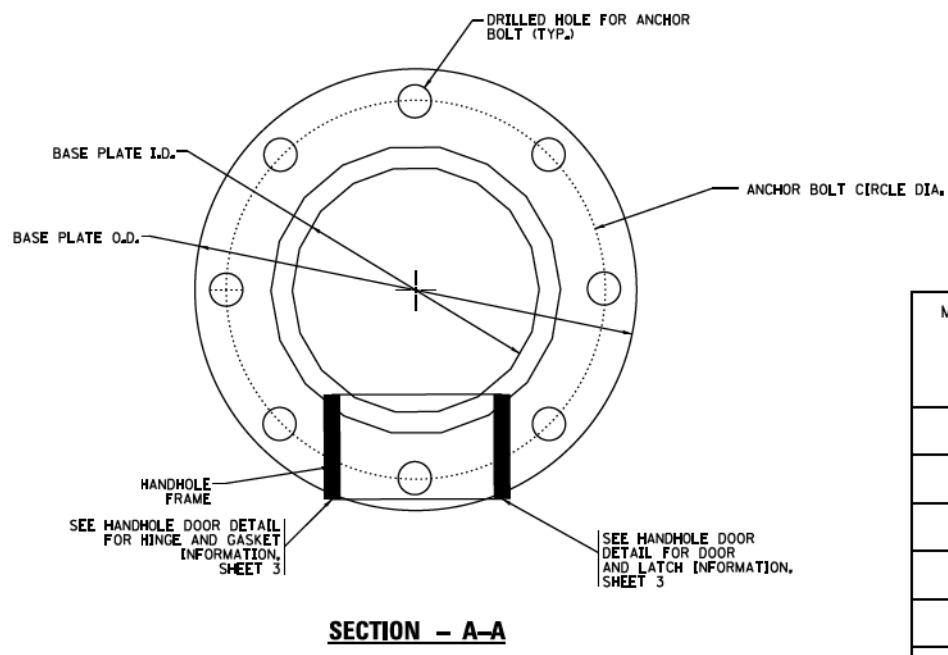
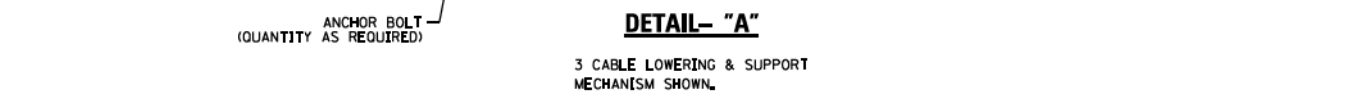
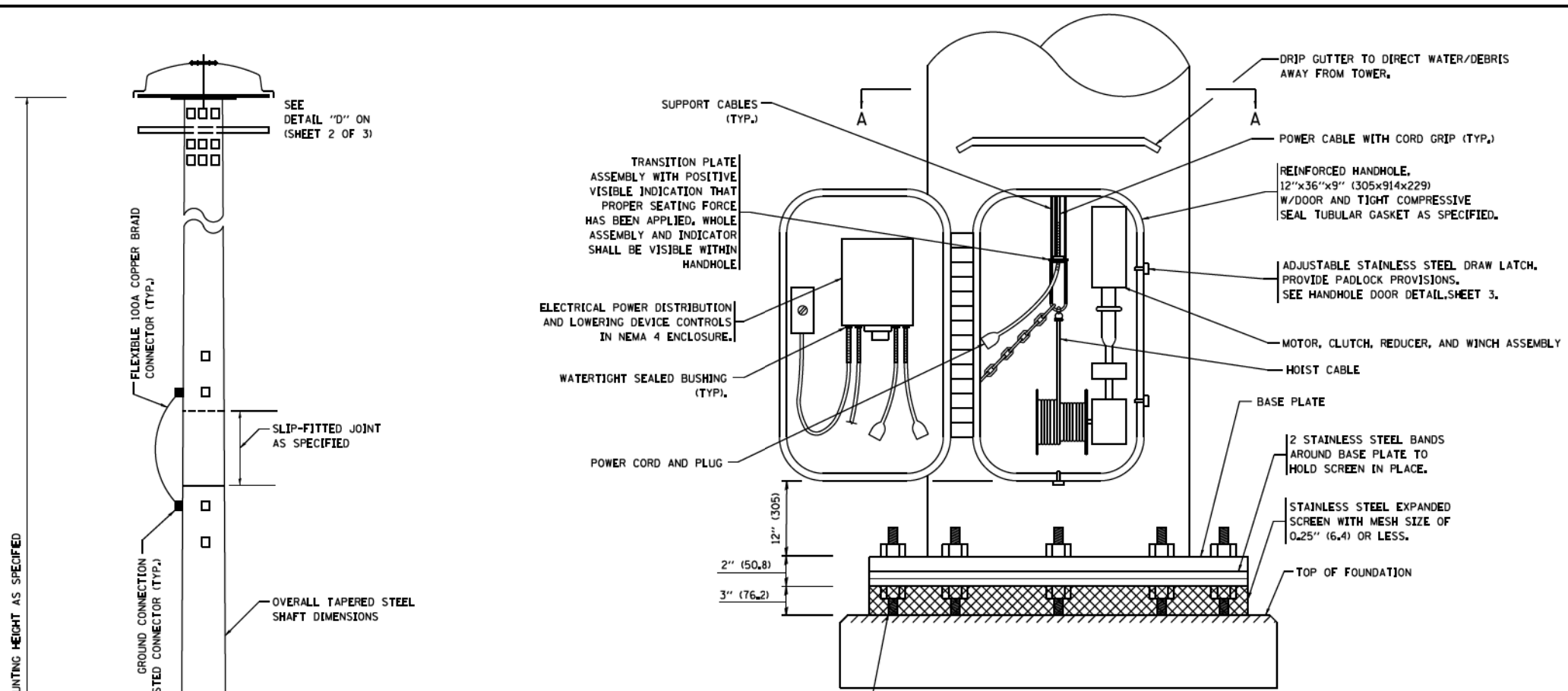
**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd51.dgn	USER NAME = geglanoht	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BENCHING DETAIL FOR EMBANKMENT WIDENING		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000 / / IN.	CHECKED - S.E.B.	REVISED -		SCALE: NONE	SHEET 13 OF 45 SHEETS	STA. TO STA.	2155	1590	CONTRACT NO. 62A76	
PLOT DATE = 1/4/2008	DATE - 06-16-04	REVISED -					FED. ROAD DIST. NO. I ILLINOIS FED. AID PROJECT				



- NOTES:**
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 - THE DESIGN SHALL BE BASED UPON AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS, HOWEVER THE WIDTH OF REINFORCED OPENING REQUIREMENT IN CHAPTER 5, SECTION 5.6.6.1 SHALL NOT APPLY. LIGHT TOWERS SHALL BE DESIGNED FOR ADT > 10,000, RISK CATEGORY TYPICAL, AND FATIGUE IMPORTANCE CATEGORY I. A MINIMUM TOTAL COMBINED LUMINAIRE WEIGHT OF 600 LB (272 KG) SHALL BE USED PLUS A COMBINED HOOD AREA AND LOWERING RING WEIGHT OF 400 LB (181 KG). THE ASSOCIATED TOTAL PROJECTED AREA SHALL BE 24 SQ FT (2.23 SQ M) AND 10 SQ FT (0.93 SQ M) RESPECTIVELY.
 - ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 270 (ASTM A 572 GR50)
 - THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
 - THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS, CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 36 INCH (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH. THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
 - A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
 - ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
 - THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123). THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED OR BE STAINLESS STEEL.
 - ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.
 - THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 1/8 IN. IN 3 FT (2 mm IN 1 m) WITHIN ANY 5 FT (1.5 m) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 IN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
 - PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
 - COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

LIGHT TOWER DIMENSIONS

MOUNTING HEIGHT (FEET)	MAXIMUM NUMBER OF SECTIONS	MINIMUM NUMBER OF ANCHOR RODS	MINIMUM TOWER TOP DIAMETER (INCHES)	MINIMUM TOWER BOTTOM DIAMETER (INCHES)	MINIMUM ROD DIAMETER (INCHES)	MINIMUM ANCHOR ROD CIRCLE (INCHES)
100	3	8	7.5	24	1.5	30
110	3	8	7.5	24	1.5	30
120	3	8	7.5	26	1.75	36
130	4	8	7.5	28	1.75	36
140	4	8	7.5	28	1.75	36
150	4	8	7.5	30	2.25	38
160	4	8	7.5	32	2.25	38

NUMBER OF SHAFT SECTIONS AS SPECIFIED, MOUNTING HEIGHT AS SPECIFIED

SEE DETAIL "D" ON (SHEET 2 OF 3)

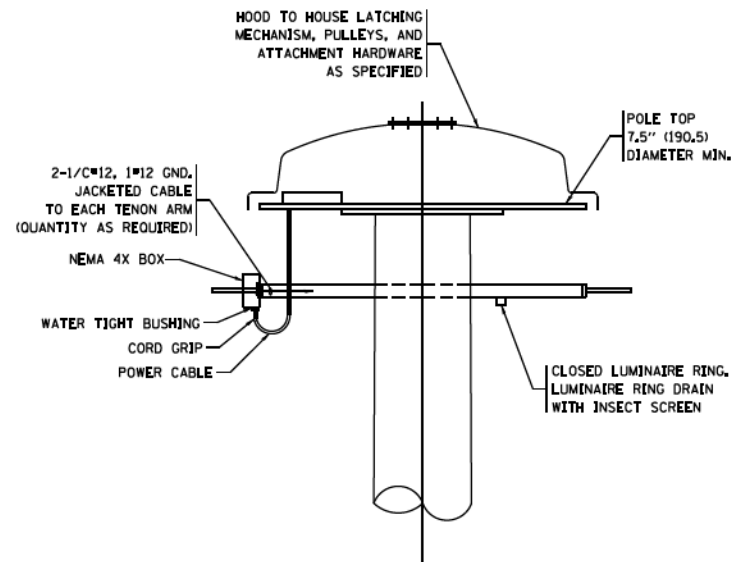
LADDER CLIP (TYP.) ALL NOT SHOWN.

10" (254) TYP.

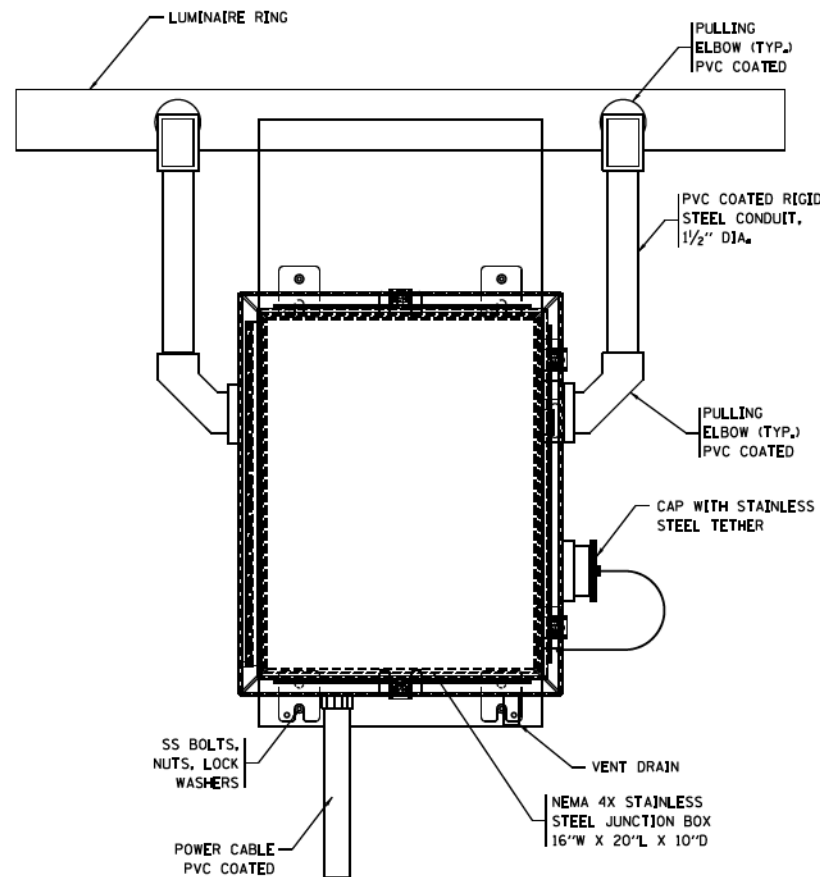
36" (914.4) TYP.

6'-0" (1.830 m)

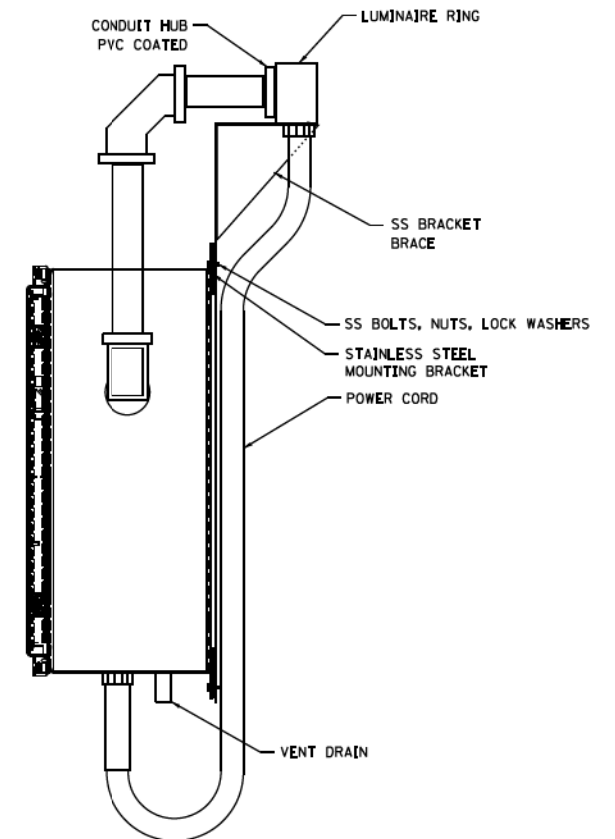
SEE DETAIL "A"



DETAIL-"D"

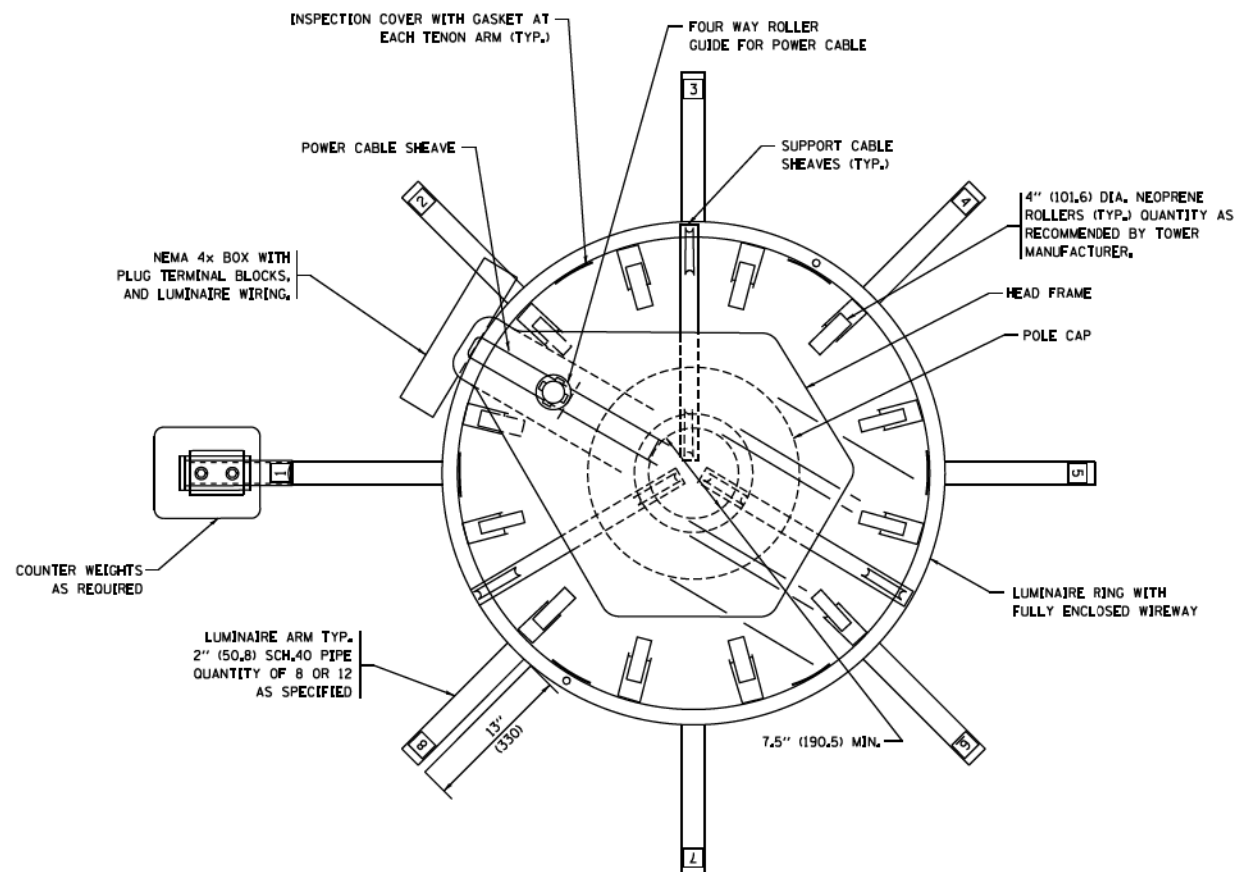


**FRONT VIEW
N.T.S.**



**SIDE VIEW
N.T.S.**

LUMINAIRE RING TERMINAL BOX



NOTES:

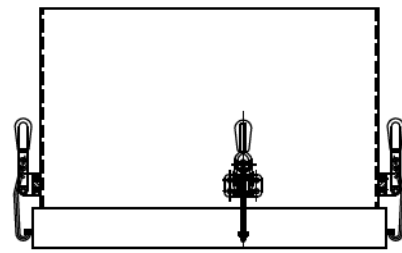
- LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609mm) LONGER THAN THE RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS, CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS. THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
- SPLICING WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.

FILE NAME :	USER NAME = footemj	DESIGNED -	REVISED - R. TOMSONS 09-02-10
pw\11.084EBID\INTEG\Illinois.gov\FWDDT\Documents\DOT Offices\District 1\Projects\Dist 1\B2M\CADData\CADsheets\be500.dgn		CHECKED -	REVISED - R. TOMSONS 02-27-13
		DATE -	REVISED - R. TOMSONS 04-29-16
			REVISED - R. TOMSONS 07-26-16

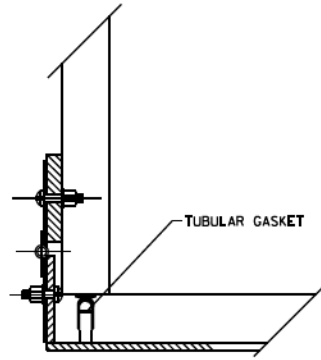
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HIGH MAST LIGHT TOWER			
100 FT TO 160 FT (30 m TO 49 m)			
SCALE:	SHEET 15 OF 45	SHEETS STA.	TO STA.

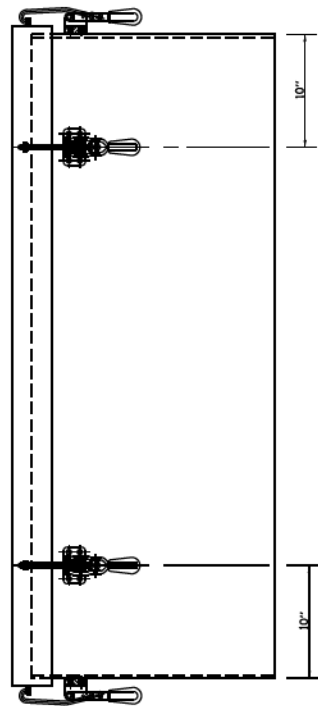
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-500		2155	1592
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	



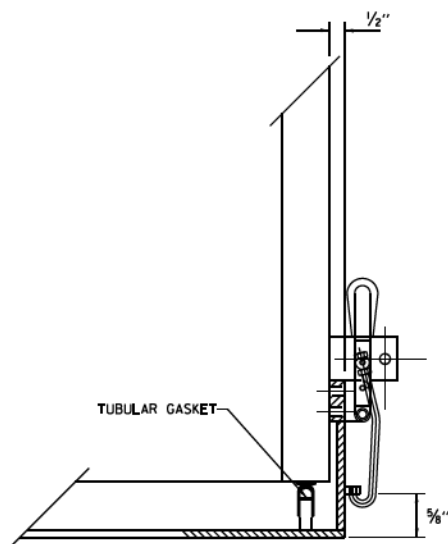
TOP VIEW



HINGE DETAIL

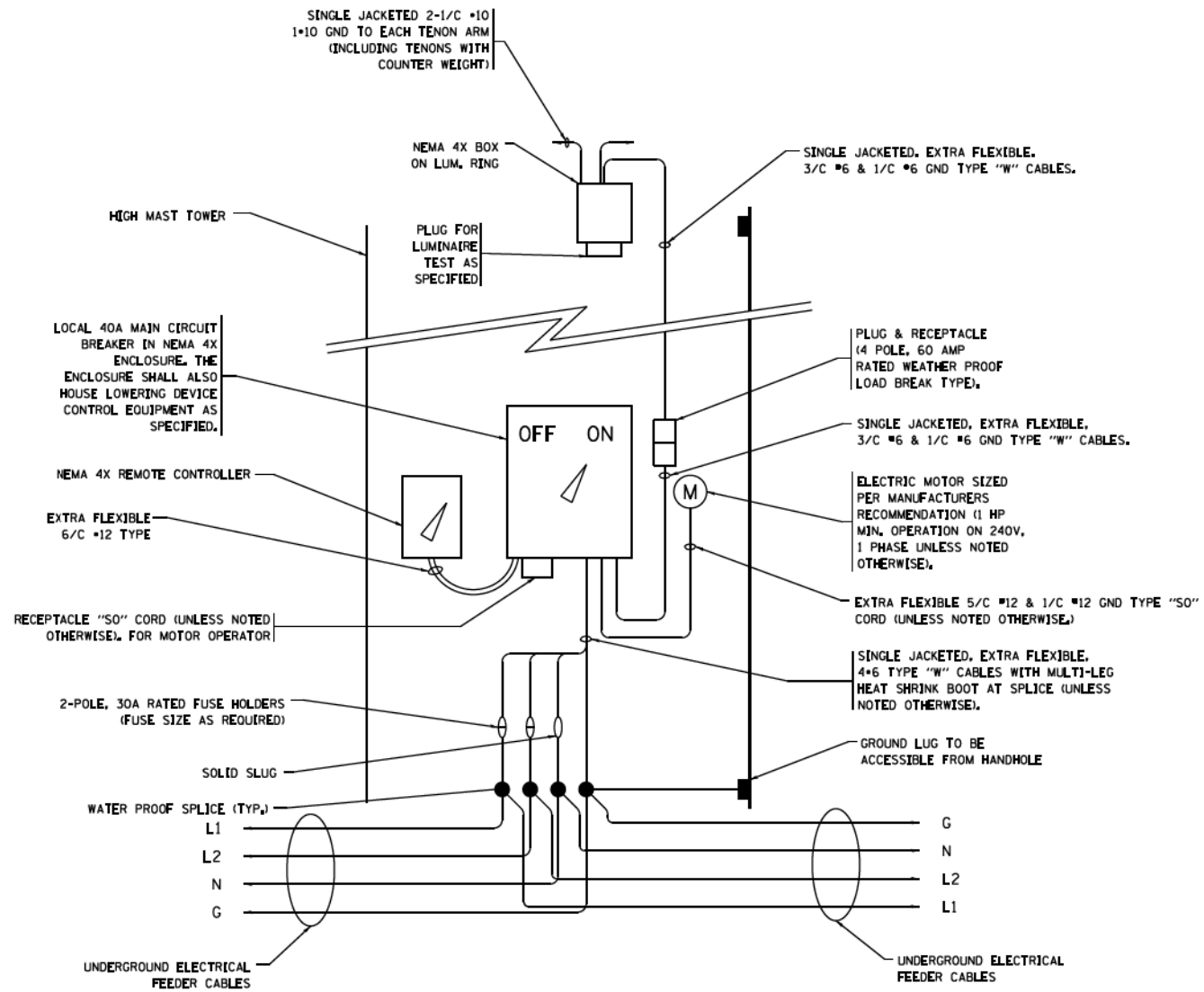


SIDE VIEW

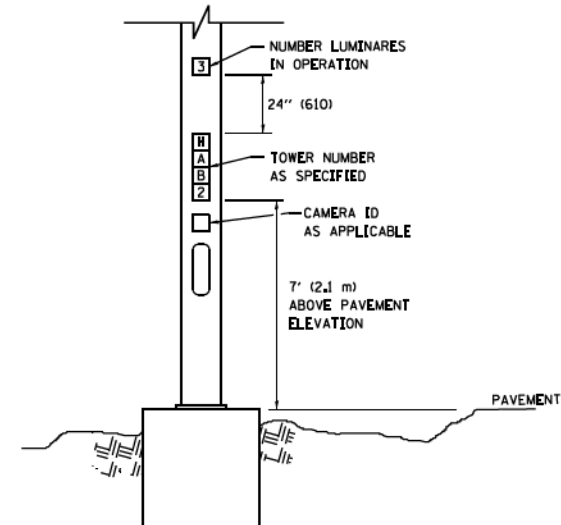


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - R. TOMSONS 09-02-10
pw\11884EBID\INTEG\Illinois.gov\FWDDT\Documents\DOT Offices\District 1\Projects\Dist 1\022111\CADD\CA0\Sheets\be500.dgn		DESIGNED - R. TOMSONS 02-27-13	REVISED - R. TOMSONS 02-27-13
		CHECKED -	REVISED - R. TOMSONS 04-29-16
Default	PLOT DATE = 7/27/2016	DATE -	REVISED - R. TOMSONS 07-26-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER
100 FT TO 160 FT (30 m TO 49 m)

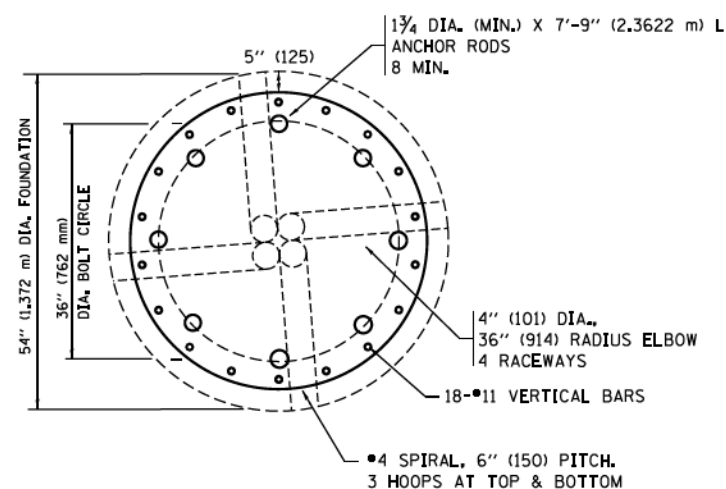
SCALE: SHEET 16 OF 45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-500		2155	1593
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

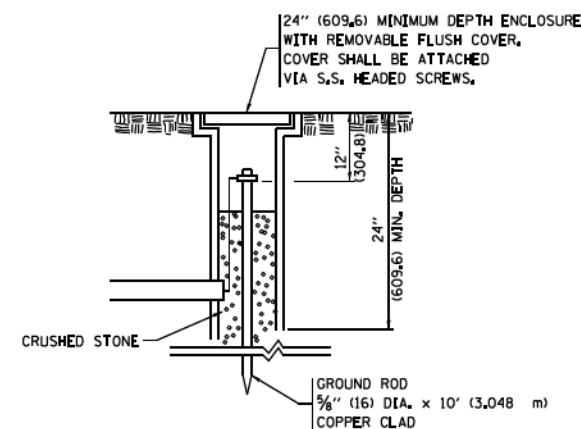
DESIGN NOTES

- ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- THE TOP OF THE FOUNDATION TO 18" (457) BELOW GRADE SHALL BE FORMED.
- SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IS INSTALLED.
- ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.

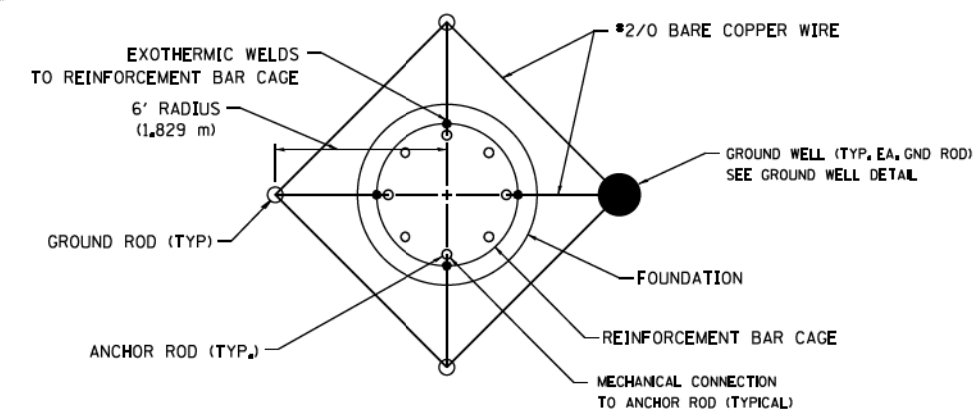
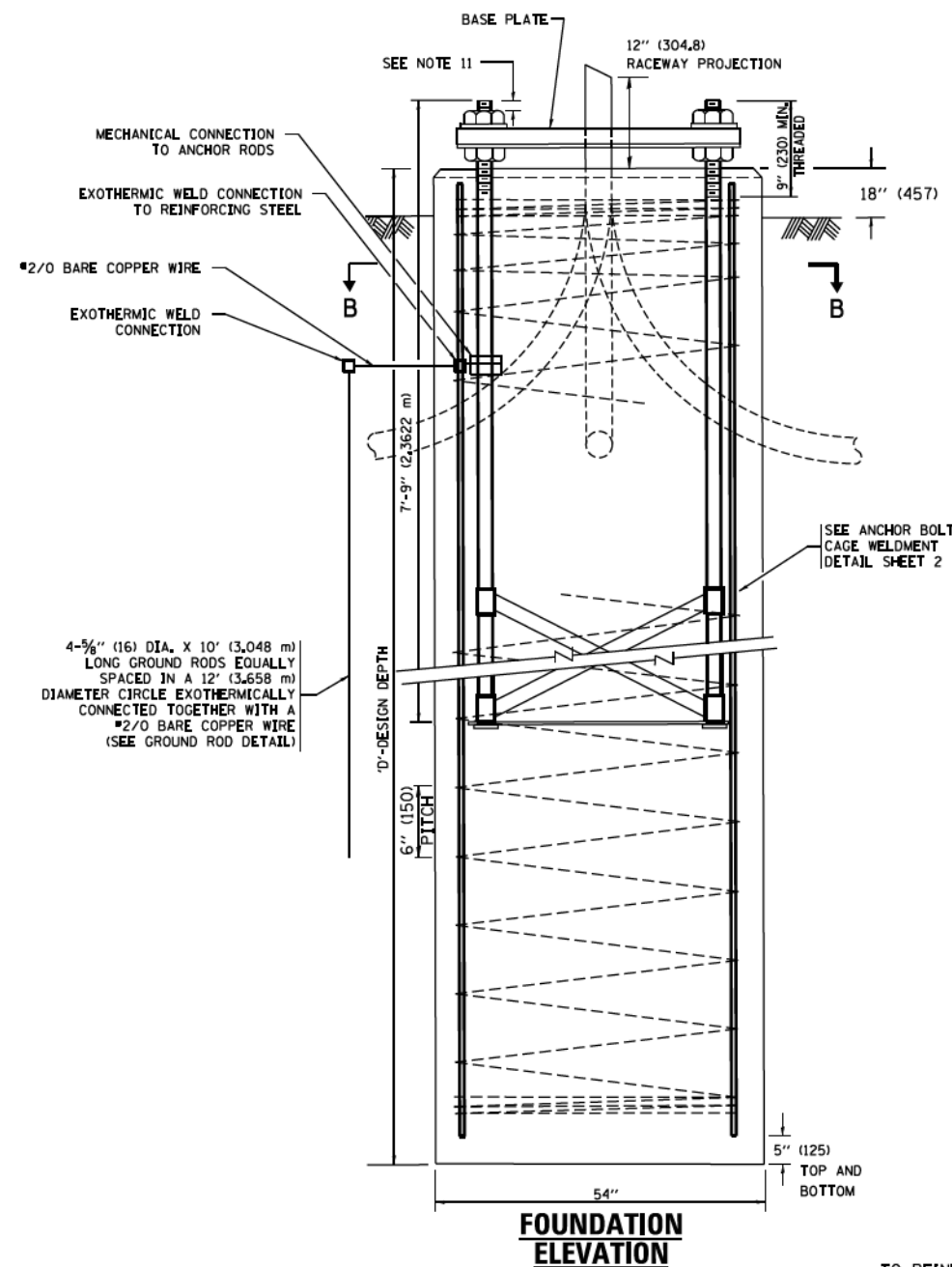
SOIL CONSISTENCY		SHAFT LENGTH (D) TABLE			
		AVERAGE STRENGTH (Qu In tsf (Qu In kPa))	LIGHT TOWER MOUNTING HEIGHT		
			120 FT. (37 m)	130 FT. (40 m)	140 FT. (43 m)
SOFT		<0.5 (<50)	25'-0" (7.6 m)	26'-6" (8.0 m)	27'-6" (8.3 m)
		0.5 TO 1 (50 TO 100)	20'-6" (6.2 m)	21'-6" (6.4 m)	22'-0" (6.7 m)
COHESIVE	STIFF	1 TO 2 (100 TO 200)	17'-6" (5.2 m)	18'-0" (5.4 m)	18'-6" (5.5 m)
	VERY STIFF	2 TO 4 (200 TO 400)	15'-0" (4.5 m)	15'-6" (4.6 m)	16'-0" (4.7 m)
HARD		>4 (>400)	13'-6" (4.0 m)	13'-6" (4.1 m)	14'-0" (4.2 m)
		N In BLOWS/FT. (N In BLOWS/0.3m)			
VERY LOOSE		<5 (<5)	19'-0" (6.3 m)	20'-0" (6.0 m)	20'-6" (6.2 m)
		5 TO 10 (5 TO 10)	17'-6" (5.7 m)	18'-0" (5.5 m)	18'-6" (5.6 m)
LOOSE		10 TO 25 (10 TO 25)	16'-6" (5.5 m)	17'-0" (5.2 m)	17'-6" (5.3 m)
		25 TO 50 (25 TO 50)	15'-6" (5.2 m)	16'-6" (4.9 m)	16'-6" (5.0 m)
DENSE		>50 (>50)	15'-0" (4.5 m)	15'-6" (4.7 m)	16'-0" (4.8 m)
VERY DENSE					



SECTION-B-B



GROUND WELL DETAIL



GROUND ROD DETAIL

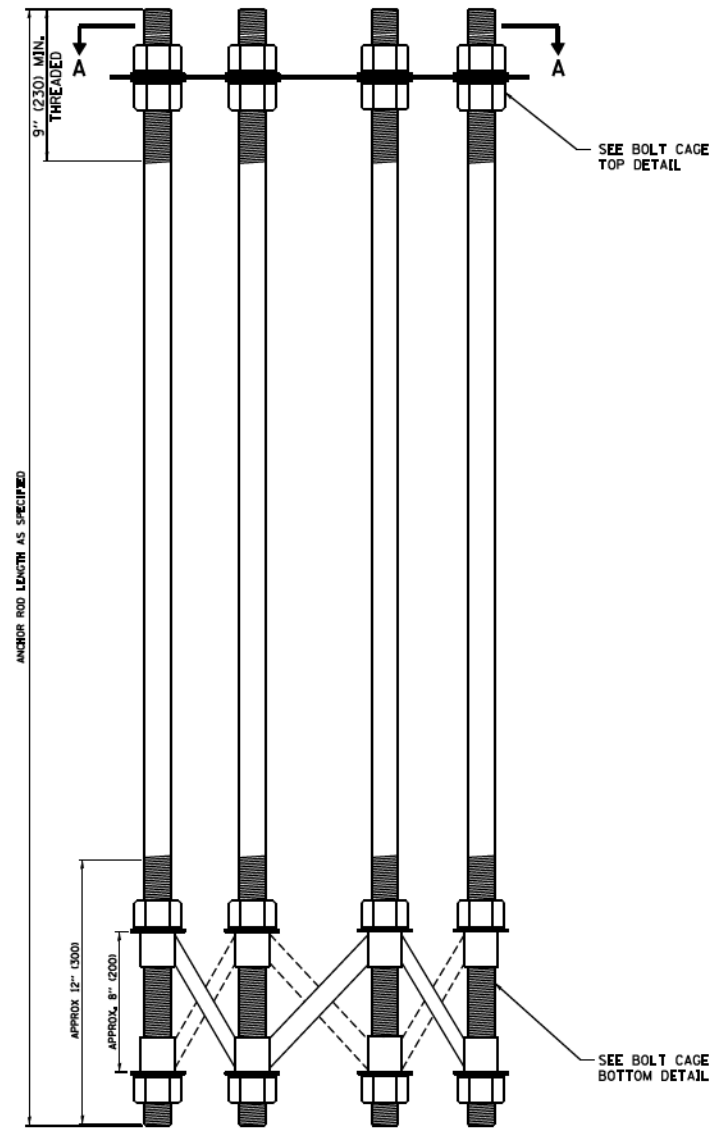
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pw\11.084EBID\INTEG\Illinois.gov\FWDDT Documents\DOT Offices\District 1\Projects\Dist 1\022\11\CAD\Detail\CA0\sheet\be506.dgn		CHECKED -	REVISED - R. TOMSONS 02-27-13
		DATE - 03-12-10	REVISED - R. TOMSONS 04-29-16
			REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

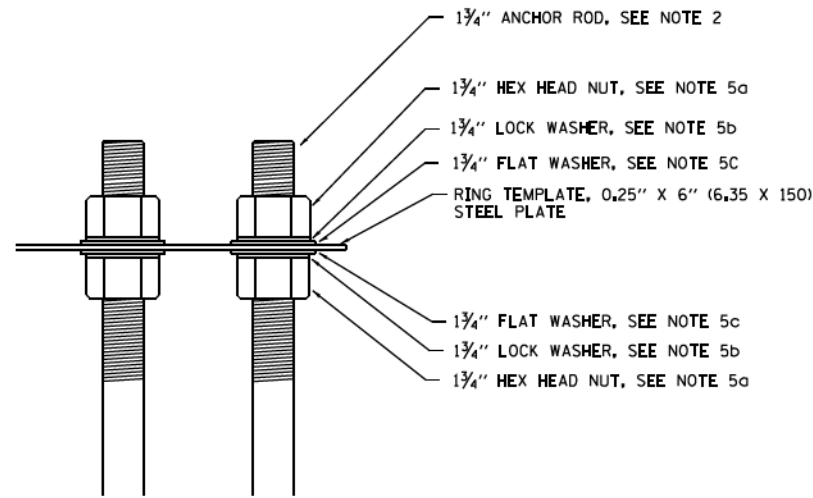
HIGH MAST LIGHT TOWER
120 FT TO 140 FT FOUNDATION DETAIL

SCALE: SHEET 17 OF 45 SHEETS STA. TO STA.

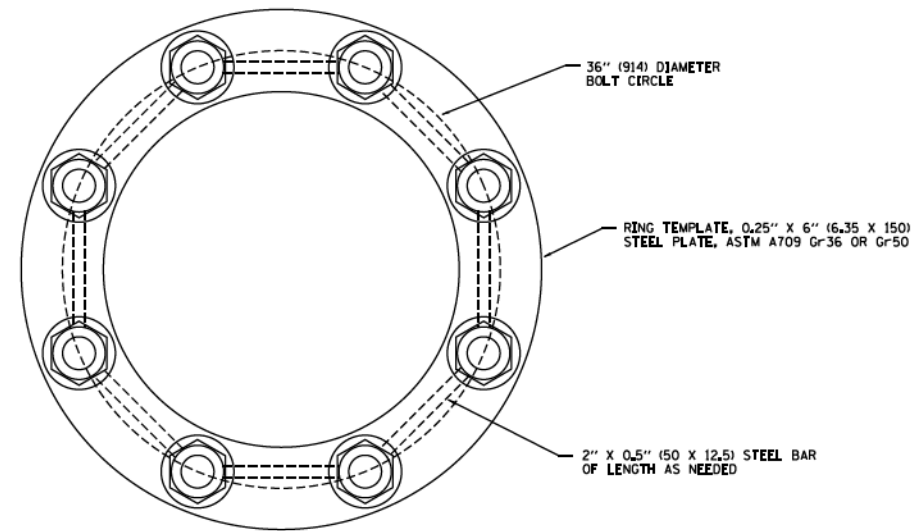
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-506		2155	1594
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	



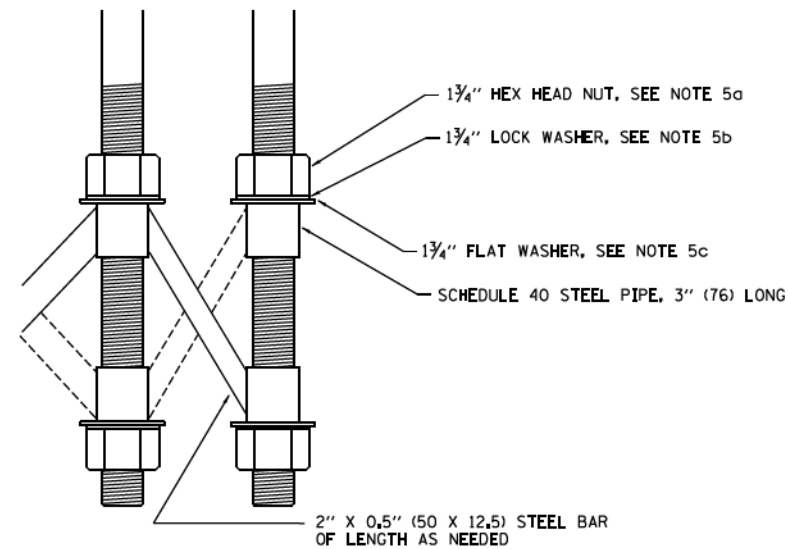
ANCHOR BOLT CAGE



BOLT CAGE TOP



SECTION A-A



BOLT CAGE BOTTOM

NOTES:

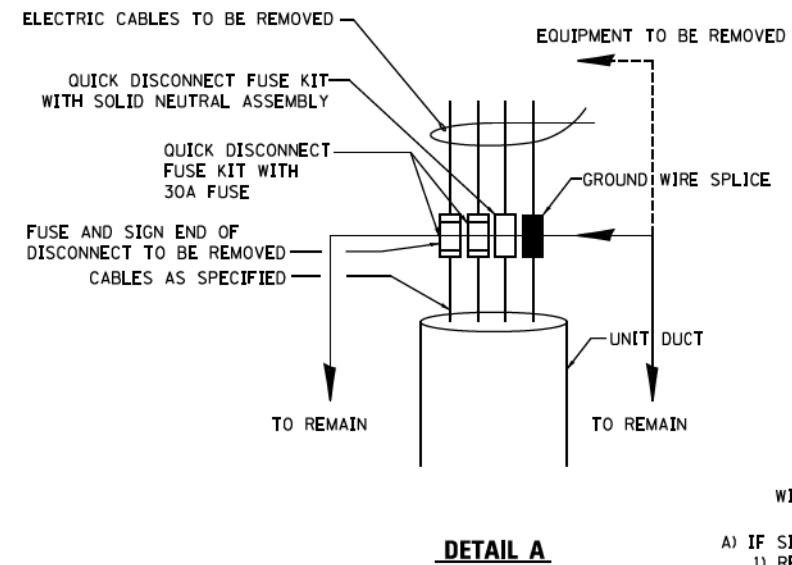
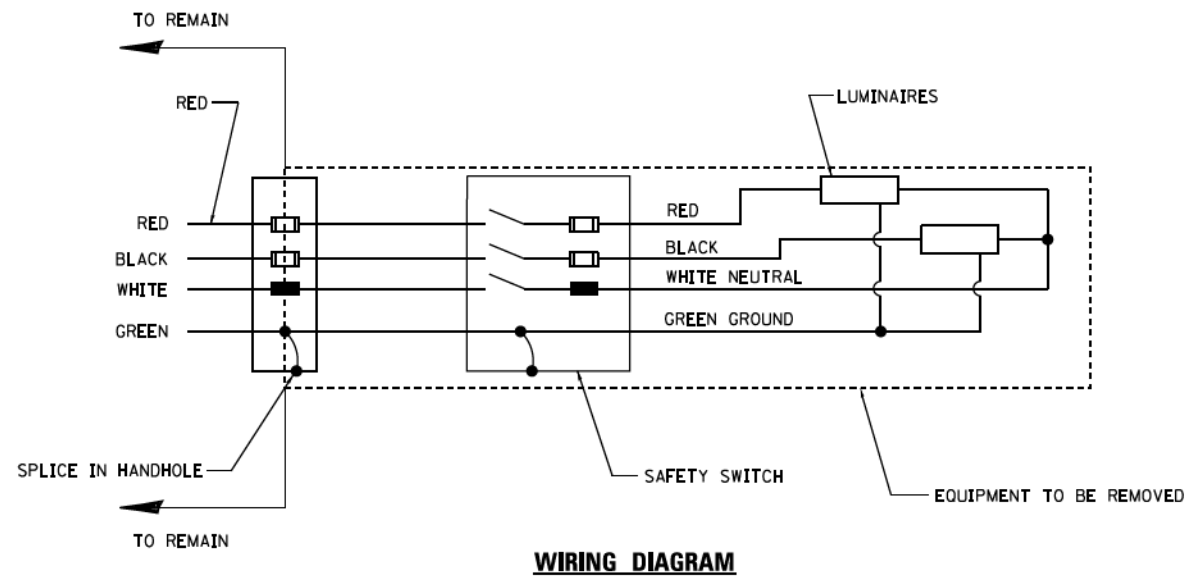
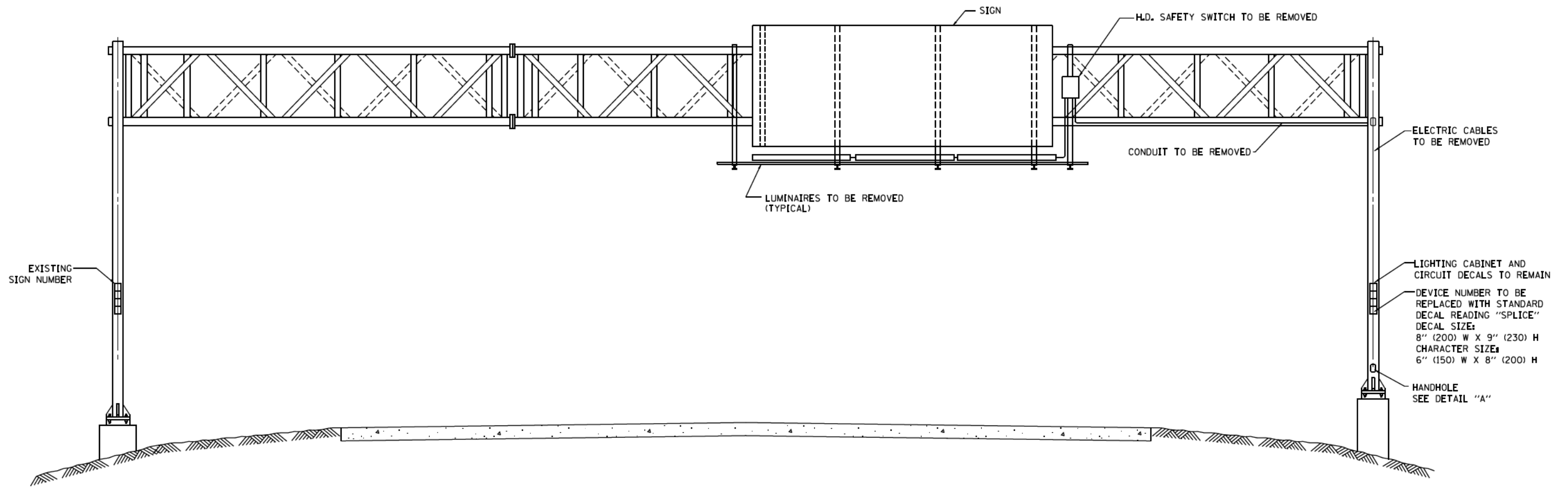
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.09.
3. ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH TOWER MANUFACTURERS REQUIREMENTS
4. CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
5. ANCHOR ROD CAGE HARDWARE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - a) 1.5 (38) HEX HEAD NUTS
AASHTO M291, GRADE C, C3, D, DH OR DH3
HOT DIPPED GALVANIZED AASHTO M 232
 - b) 1.5 (38) HELICAL LOCK WASHERS
ANSI/ASME B18.21.1
I.D. 1.504 - 1.524
O.D. 2.159 MAX.
WIDTH 0.292 MIN.
THICKNESS 0.375 MIN.
HARDNESS 26-45 ROCKWELL C
HOT DIPPED GALVANIZED AASHTO M232
 - c) 1.5 (38) FLAT WASHERS
AASHTO M293
O.D. 2.75
I.D. 1.56
THICKNESS 0.16 - 0.25
HARDNESS 26-45 ROCKWELL C.
HOT DIPPED GALVANIZED AASHTO M232
6. THE SHAFT LENGTHS SHALL BE BASED ON SOIL BORINGS IN THE PLANS AND OR A DETERMINATION OF SOIL CONDITIONS BY THE ENGINEER.
7. ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.
8. THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
9. ANCHOR RODS AND ALL ASSOCIATED HARDWARE ARE SHOWN AS MINIMUMS. SIZING SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.

FILE NAME =	USER NAME = footemj	DESIGNED - R. TOMSONS 09-02-10	REVISED - R. TOMSONS 02-27-13
pw\11.084EBID\INTEG\Illinois.gov\FWDDT\Documents\DOT Offices\District 1\Projects\Dist 1\022\11\11\11\CADData\CADsheets\be506.dgn		CHECKED -	REVISED - R. TOMSONS 04-29-16
Default	PLOT SCALE = 50.000' / 1in.	DATE -	REVISED -
	PLOT DATE = 4/29/2016		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER			
120 FT TO 140 FT FOUNDATION DETAIL			
SCALE:	SHEET 18 OF 45	SHEETS STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-506		2155	1595
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62A76	

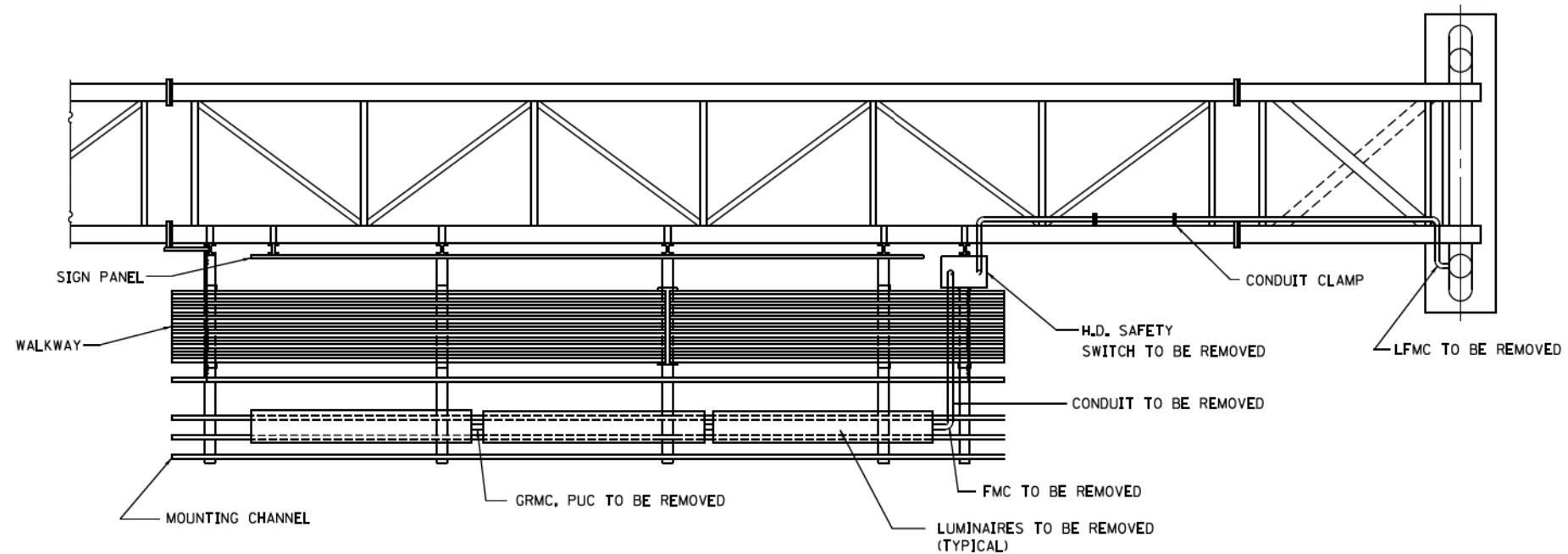


- WIRING MODIFICATIONS:**
- A) IF SIGN IS NOT A FED THRU;
 - 1) REMOVE ALL WIRING FROM LOWER HANDHOLE OR JUNCTION BOX TO LUMINAIRES. (LOAD SIDE)
 - 2) CAP LINE SIDE OF WIRES.
 - B) IF SIGN IS USED AS A MID CIRCUIT TAP;
 - 1) REMOVE ALL WIRING FROM LOWER HANDHOLE OR JUNCTION BOX TO LUMINAIRES. (LOAD SIDE)
 - 2) RESPLICE LINE SIDE CABLES TO MAINTAIN CIRCUIT CONTINUITY.

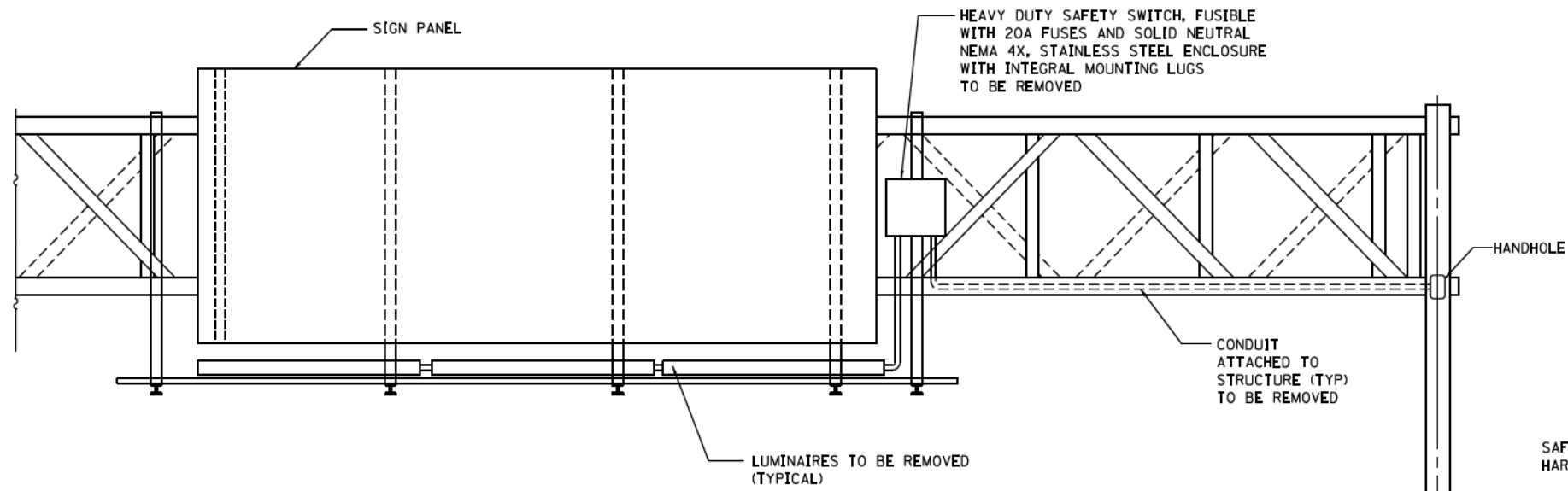
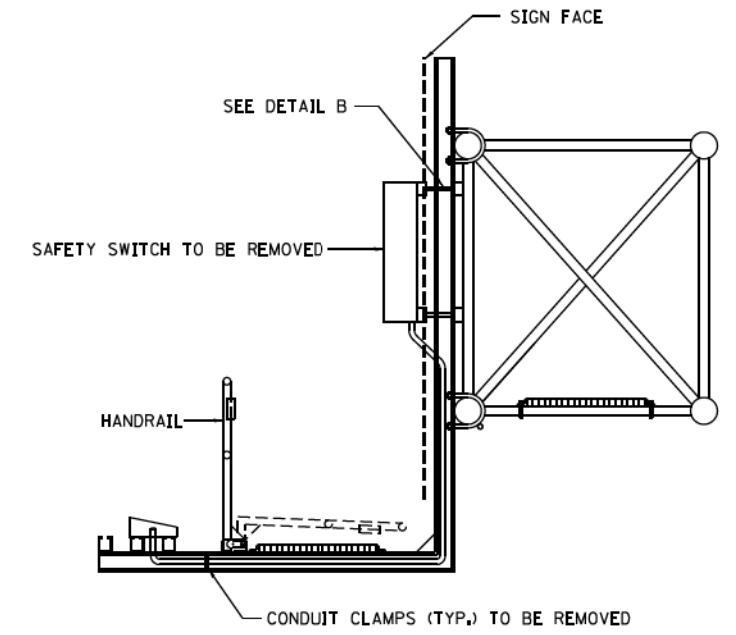
NOTE:

1. CONTRACTOR TO COORDINATE WITH IDOT ELECTRIC MAINTENANCE CONTRACTOR PRIOR TO PERFORMING ANY WORK.

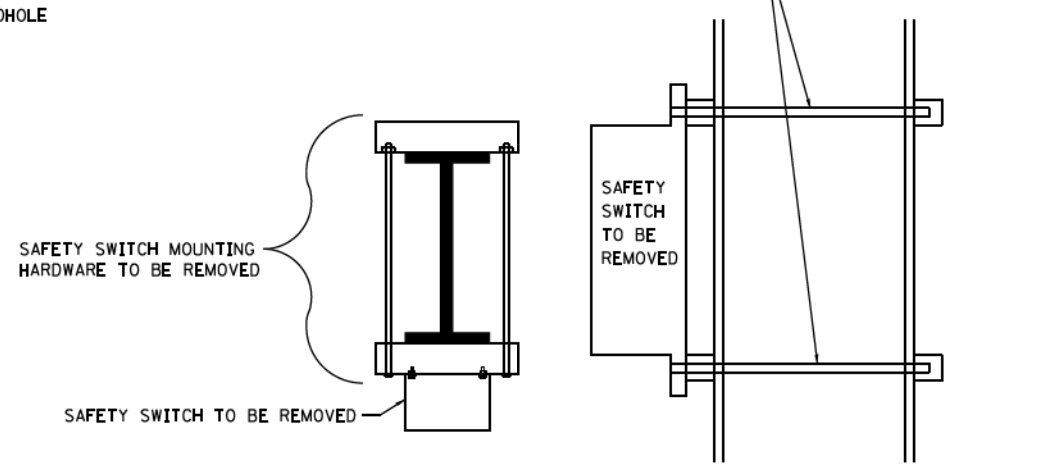
FILE NAME = W:\d\statd\22x34\be618.dgn	USER NAME = lszokrf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL OF ELECTRICAL LIGHTING FROM SIGN STRUCTURE SHEET 1 OF 2 SPAN TYPE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 58.0000 / 1" = 50'	CHECKED -	REVISED -					BE-610			2155	1596
PLOT DATE = 10/16/2014	DATE = 10-16-14			SCALE: NONE	SHEET NO. 19 OF 48 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		CONTRACT NO. 62A76			



TOP VIEW



ELEVATION VIEW



TOP VIEW

SIDE VIEW

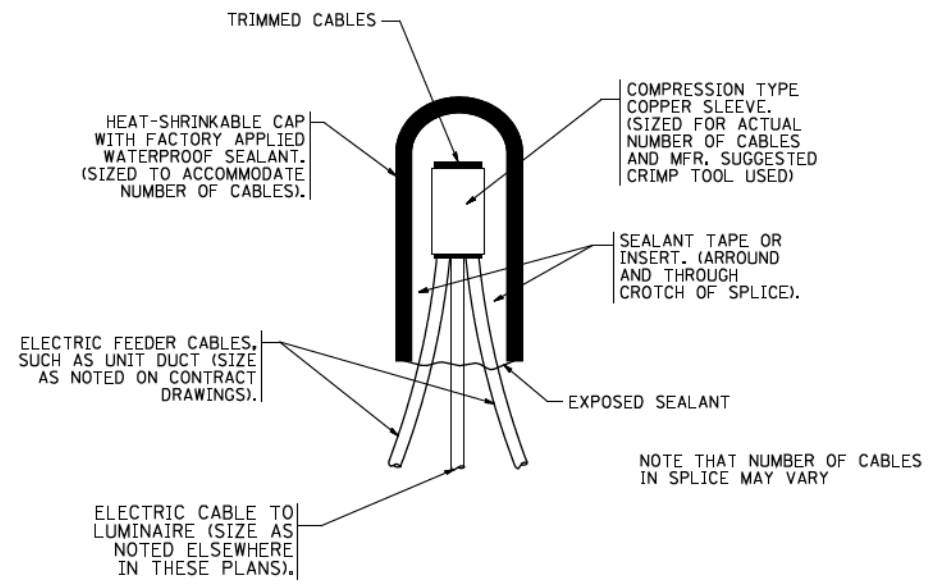
DETAIL B

WIRING MODIFICATIONS:

- A) IF SIGN IS NOT A FED THRU;
 - 1) REMOVE ALL WIRING FROM LOWER HANDHOLE OR JUNCTION BOX TO LUMINAIRES. (LOAD SIDE)
 - 2) CAP LINE SIDE OF WIRES.

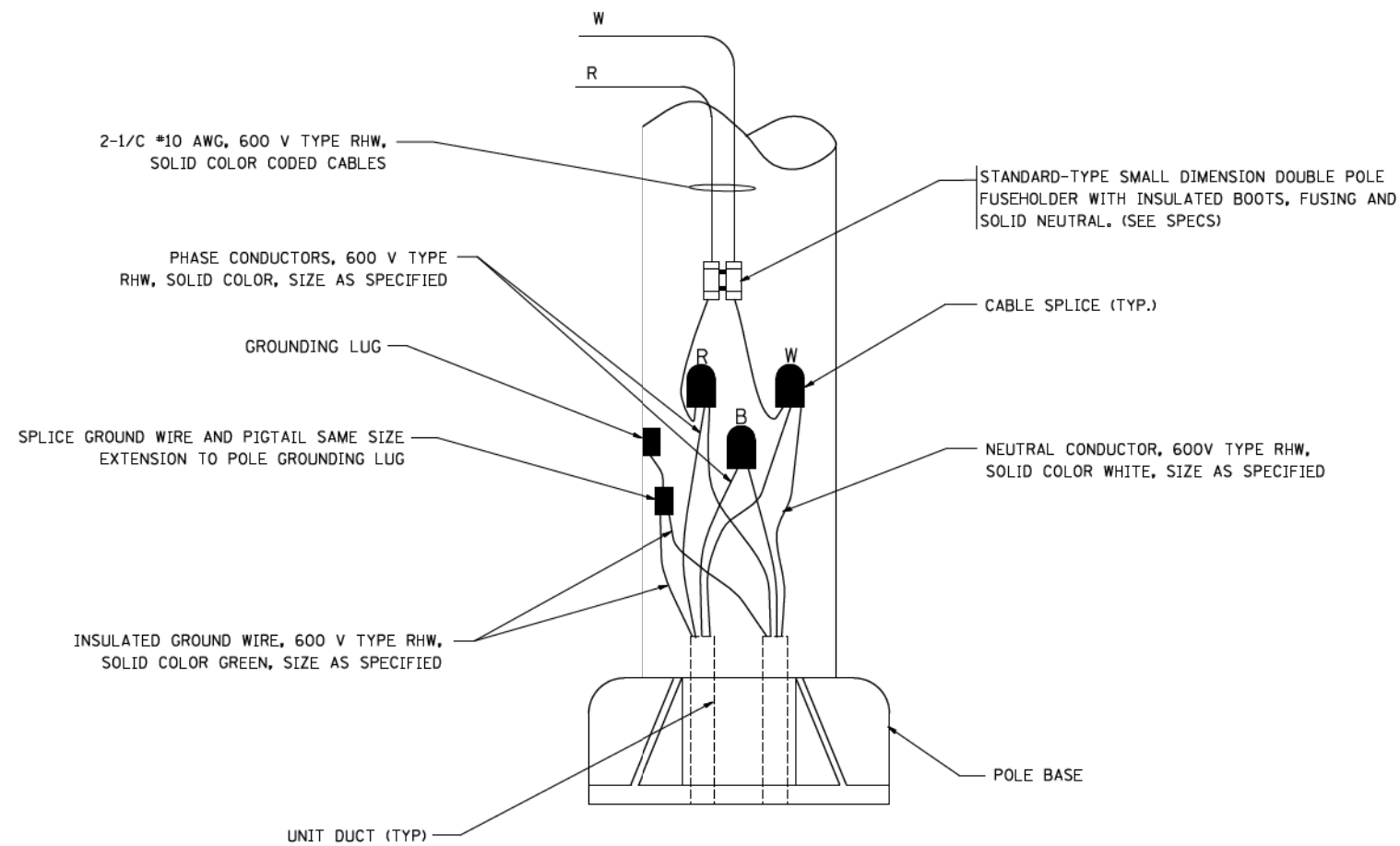
- B) IF SIGN IS USED AS A MID CIRCUIT TAP;
 - 1) REMOVE ALL WIRING FROM LOWER HANDHOLE OR JUNCTION BOX TO LUMINAIRES. (LOAD SIDE)
 - 2) RESPLICE LINE SIDE CABLES TO MAINTAIN CIRCUIT CONTINUITY.

FILE NAME = W:\d\stsd\22x34\be618.dgn	USER NAME = lszkrf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL OF ELECTRICAL LIGHTING FROM SIGN STRUCTURE SHEET 2 OF 2 SPAN TYPE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 58.0000 / 1" = 50'	CHECKED -	REVISED -					BE-610	CONTRACT NO. 62A76	2155	1597	
PLOT DATE = 10/16/2014	DATE = 10-16-14	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 22	OF 42 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



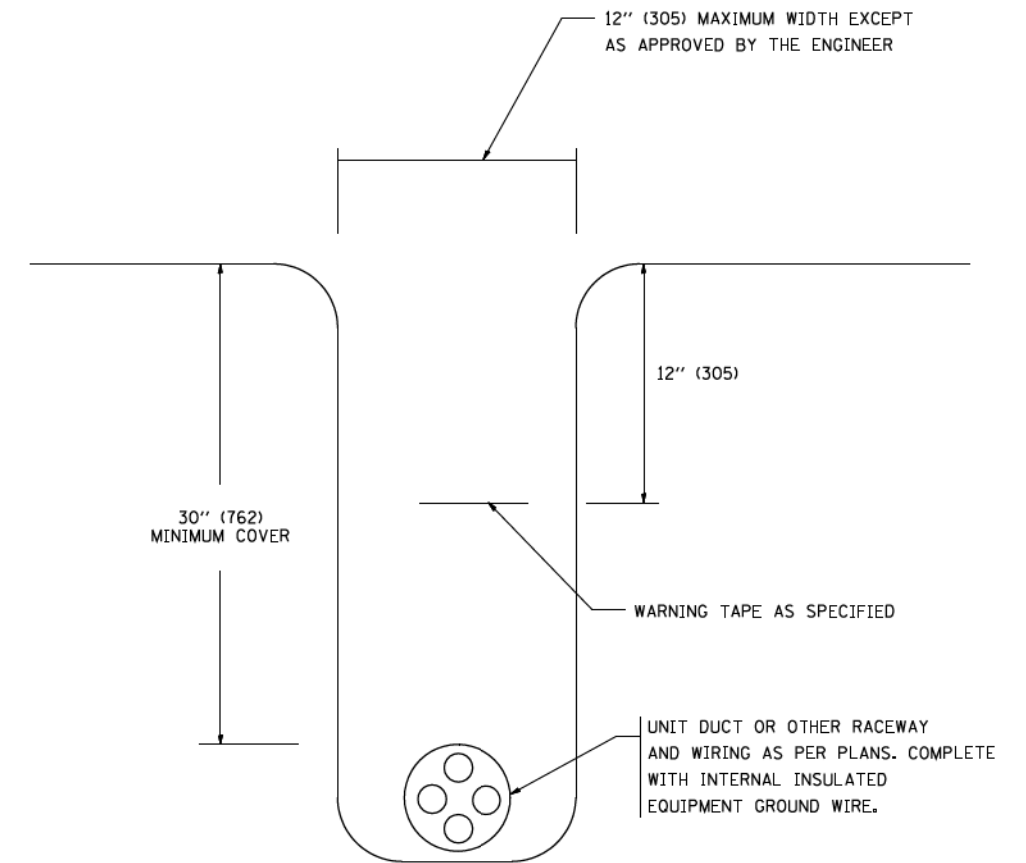
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

FILE NAME =
W:\diststd\22x34\be782.dgn

USER NAME = geglanoht
DESIGNED -
DRAWN -
PLOT SCALE = 50.000' / IN.
CHECKED -
DATE -
PLOT DATE = 1/4/2008

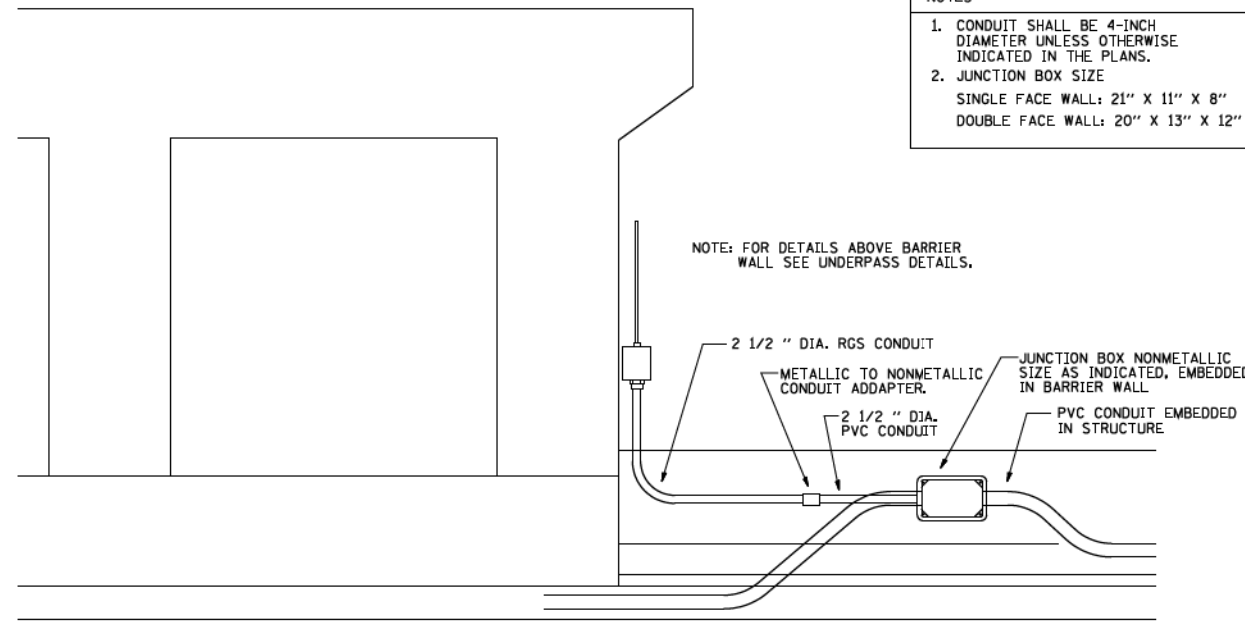
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED - 08-08-03
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISC. ELECTRICAL DETAILS
SHEET A**
SCALE: NONE SHEET 21 OF 45 SHEETS STA. TO STA.

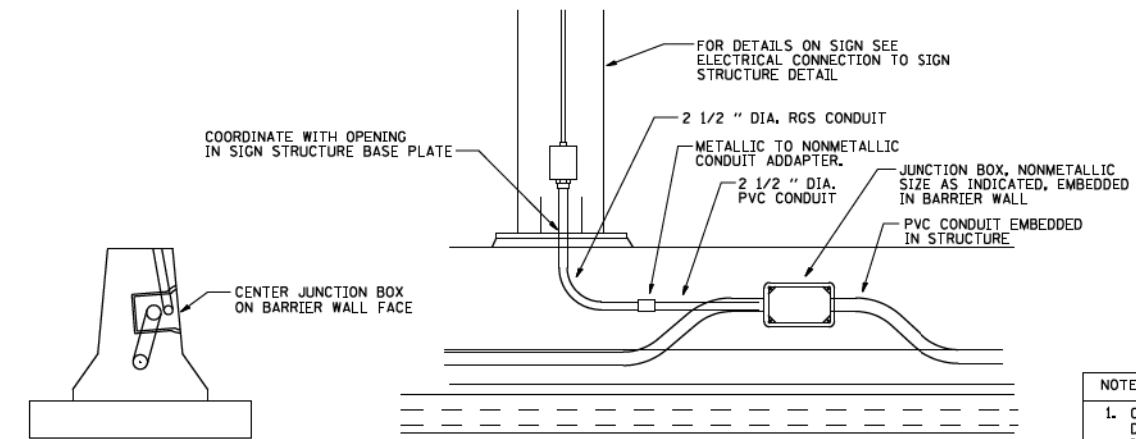
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			2155	1598
BE-702			CONTRACT NO. 62A76	
FED. ROAD DIST. NO. I ILLINOIS FED. AID PROJECT				



- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

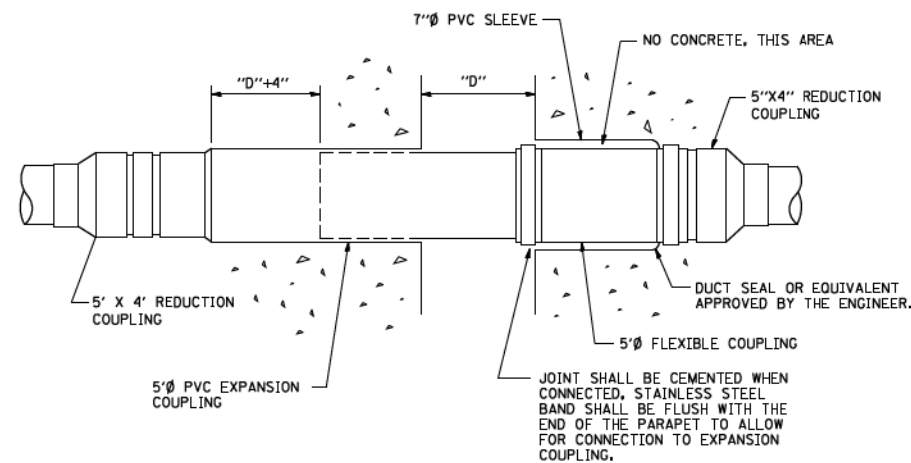
NOTE: FOR DETAILS ABOVE BARRIER WALL SEE UNDERPASS DETAILS.

ED - BWD
ELECTRIC CONNECTION TO UNDERPASS LIGHTING

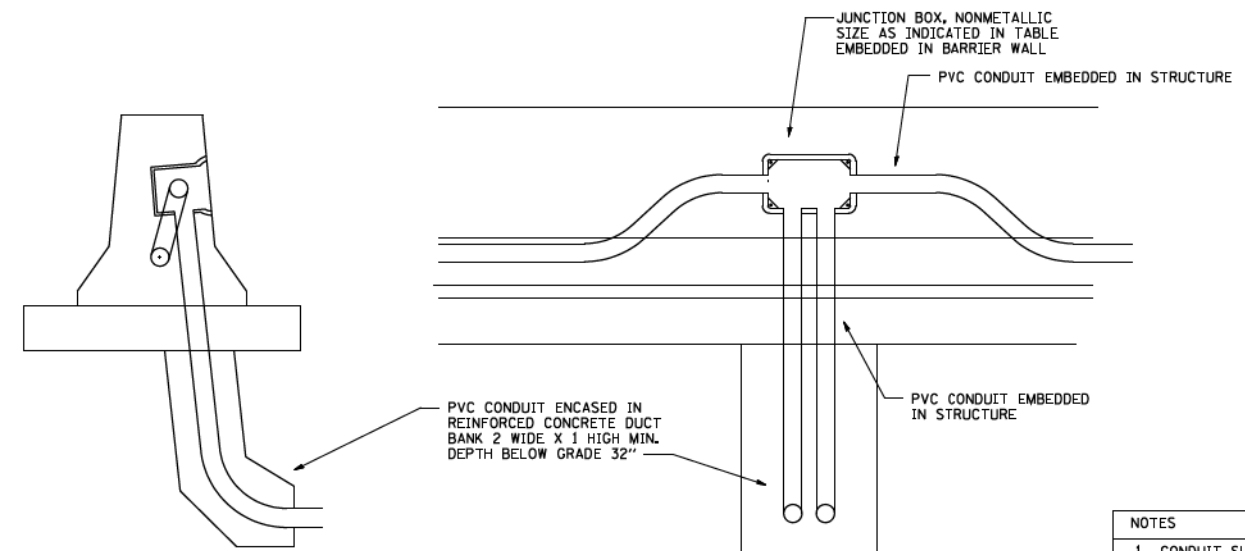


- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - SGN
JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING

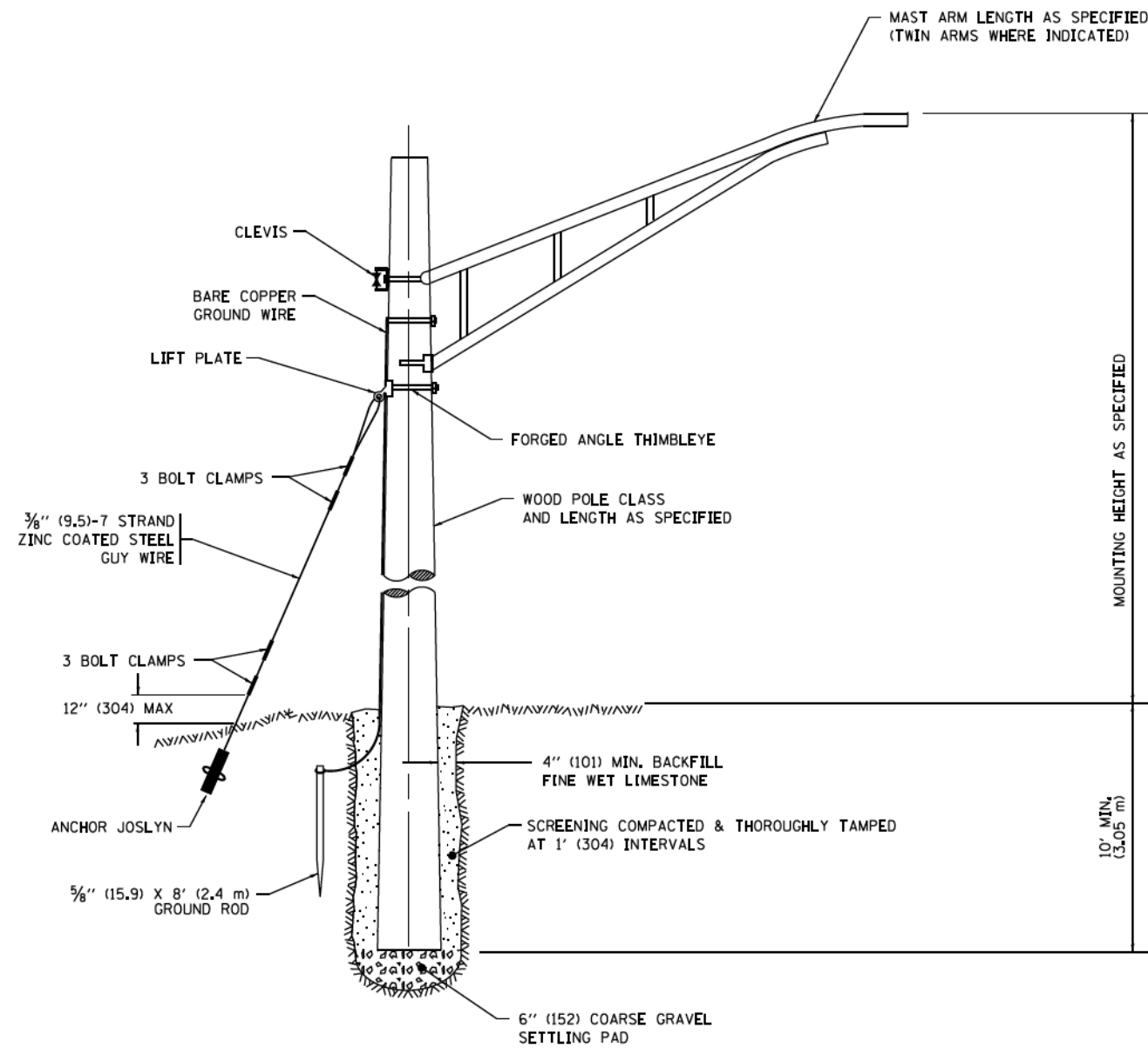


INSTALLATION OF CONDUIT
IN BRIDGE PARAPET EXPANSION JOINT
(N.T.S.)

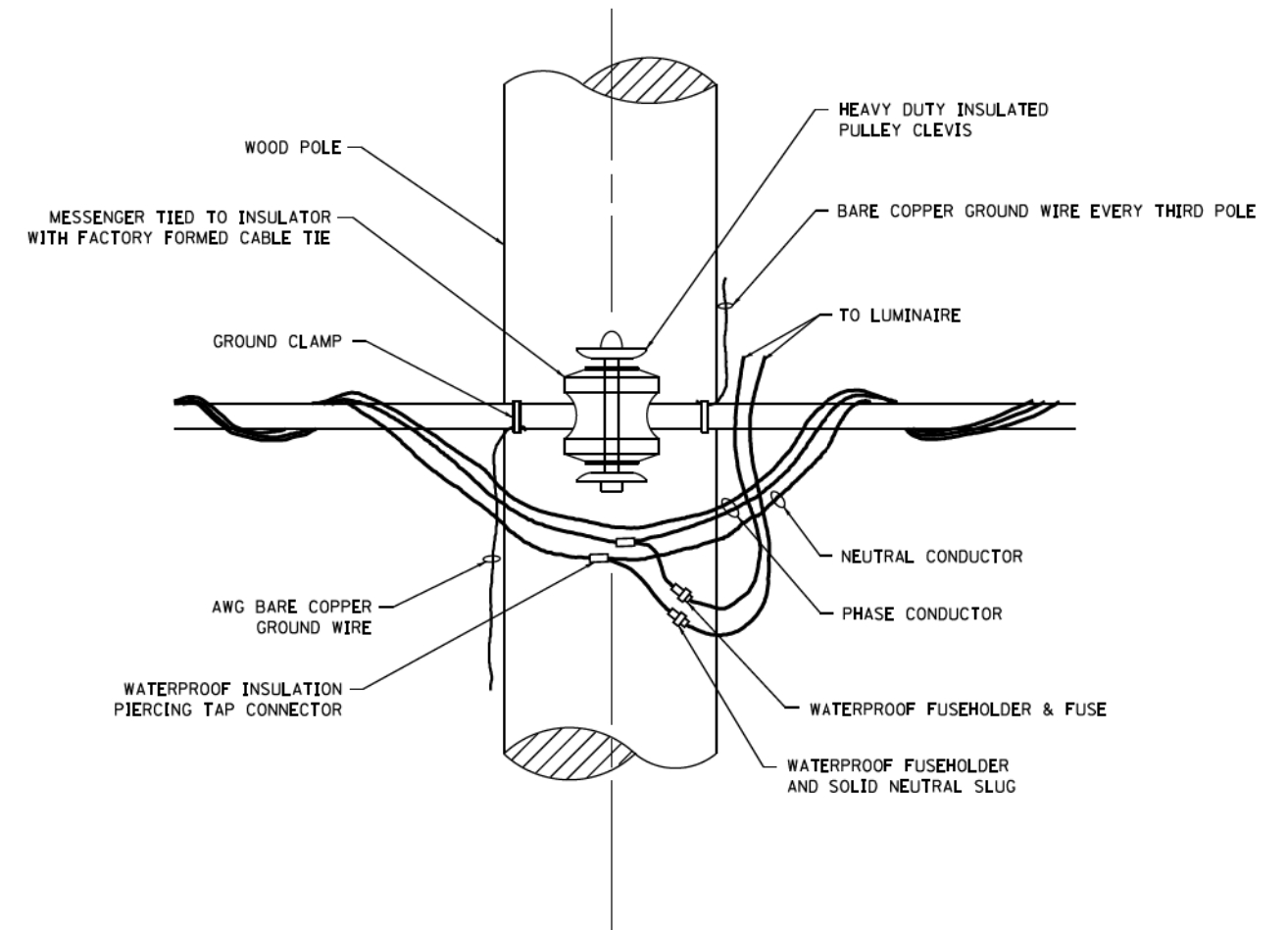


- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - BW
JUNCTION BOX EMBEDDED IN BARRIER WALL



TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

FILE NAME :	USER NAME = footemj	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHT POLE DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBID\INTEG\Illinois.gov\FWDDT\Documents\DOT Offices\District 1\Projects\Dist 082\DWG\CADDeta\CADsheets\be800.dgn	082\DWG\CADDeta\CADsheets\be800.dgn	REVISOR - R.T. 07-26-16	REVISED -								2155	1600
PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -			BE-800		CONTRACT NO. 62A76					
Default	PLOT DATE = 9/1/2016	DATE -	REVISED -		SCALE: NONE	SHEET 23 OF 45 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				