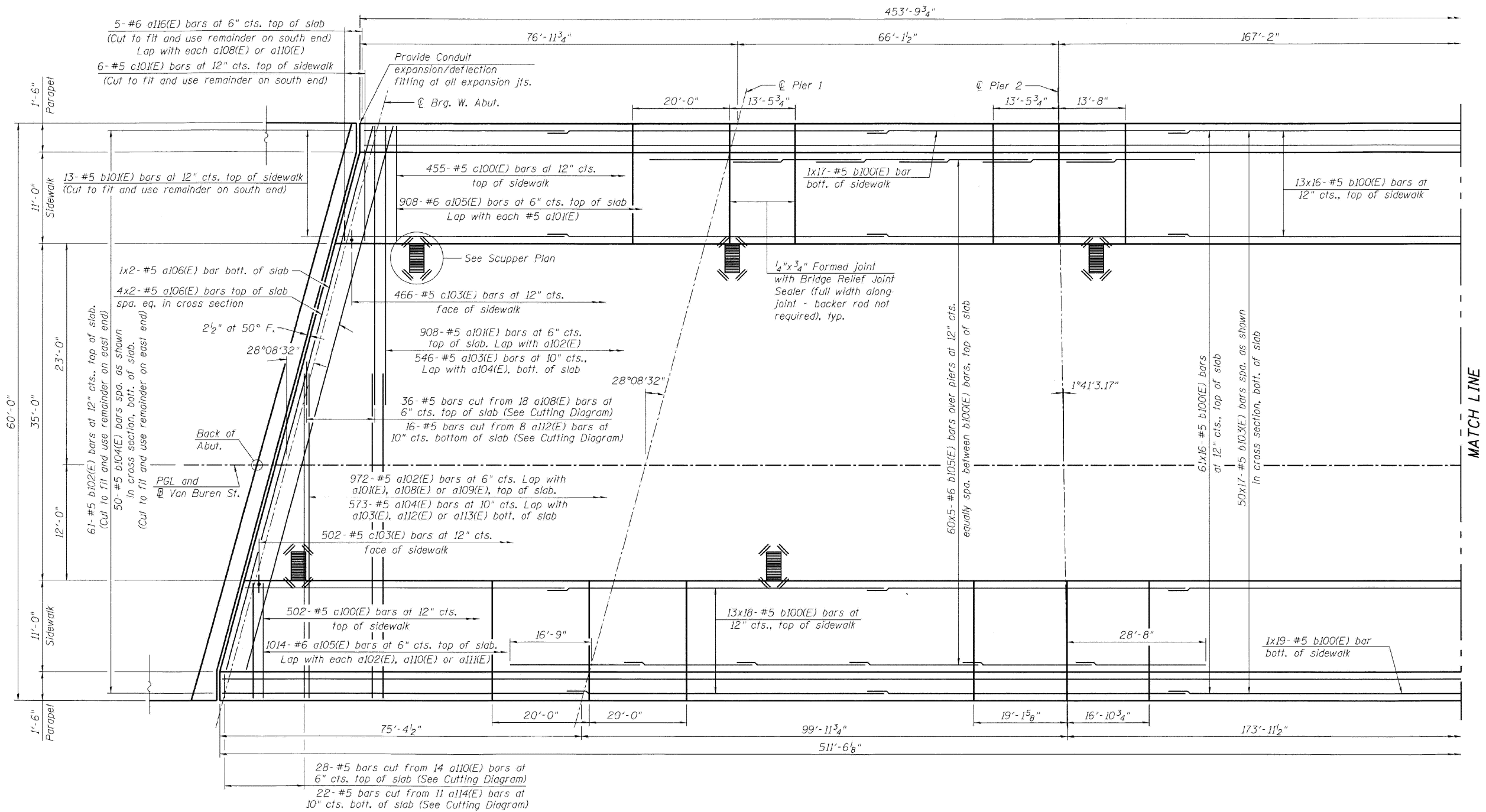


FOR INFORMATION ONLY



DECK PLAN

DECK PLAN AND CROSS SECTION 1
STRUCTURE NO. 016-1707

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PLOT DATE = 12/4/2025	DATE -	REVISED -

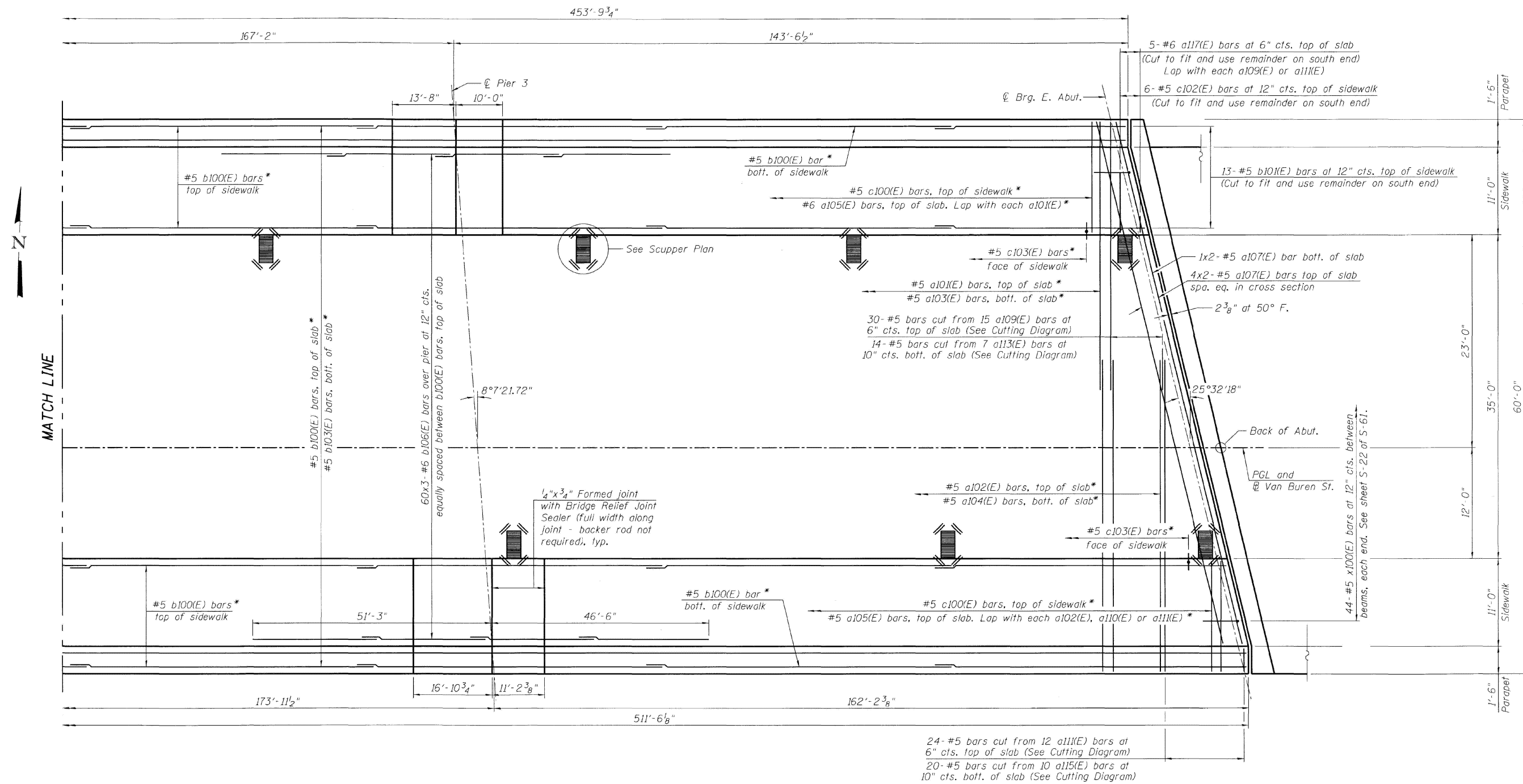
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 22: VAN BUREN ST OVER I-90/94 (SN 016-1707)
EXISTING STRUCTURE DETAILS

SCALE: SHEET A003 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	102
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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PLOT DATE = 12/4/2025	DATE -	REVISED -

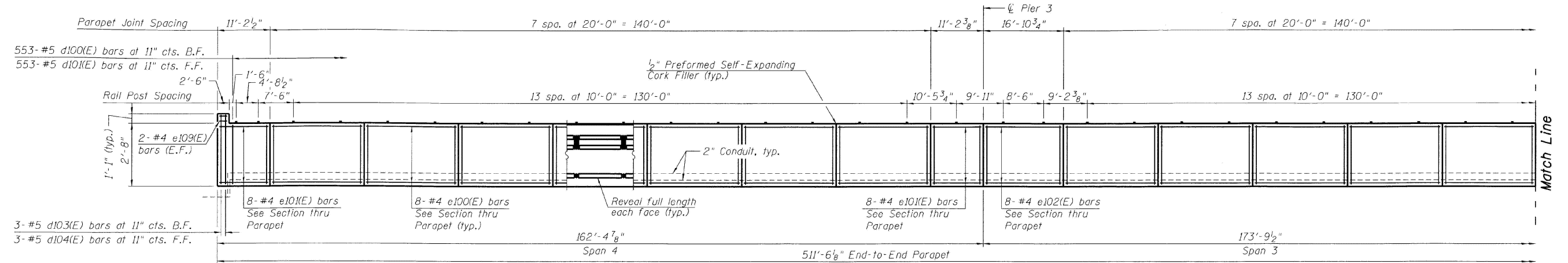
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 22: VAN BUREN ST OVER I-90/94 (SN 016-1707)
EXISTING STRUCTURE DETAILS**

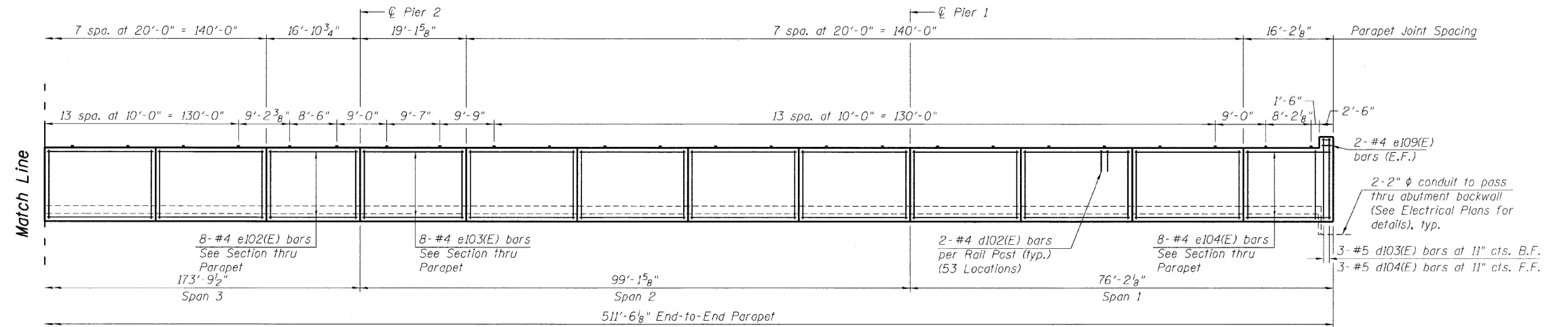
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	103
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

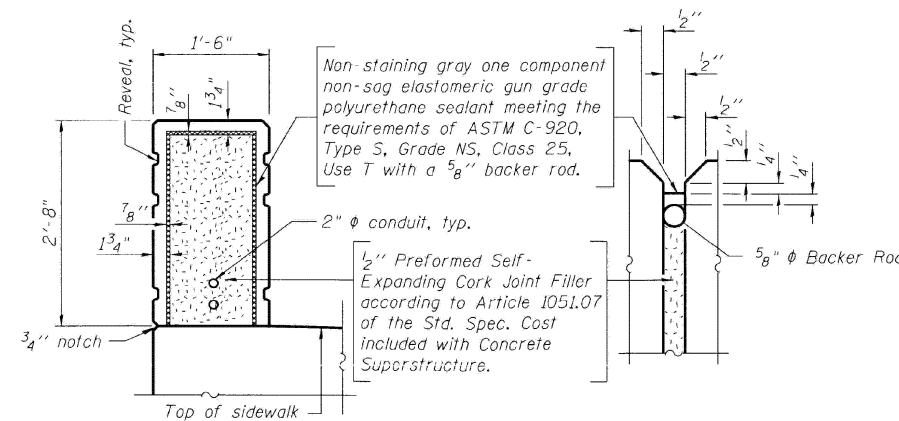
FOR INFORMATION ONLY



INSIDE ELEVATION OF SOUTH PARAPET
(Looking South)



INSIDE ELEVATION OF SOUTH PARAPET
(Looking South)



PARAPET JOINT DETAILS

SOUTH PARAPET ELEVATION AND DETAILS
STRUCTURE NO. 016-1707

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 22: VAN BUREN ST OVER I-90/94 (SN 016-1707)
EXISTING STRUCTURE DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2024-1009-BDS	COOK	192	104
CONTRACT NO. 62X44				

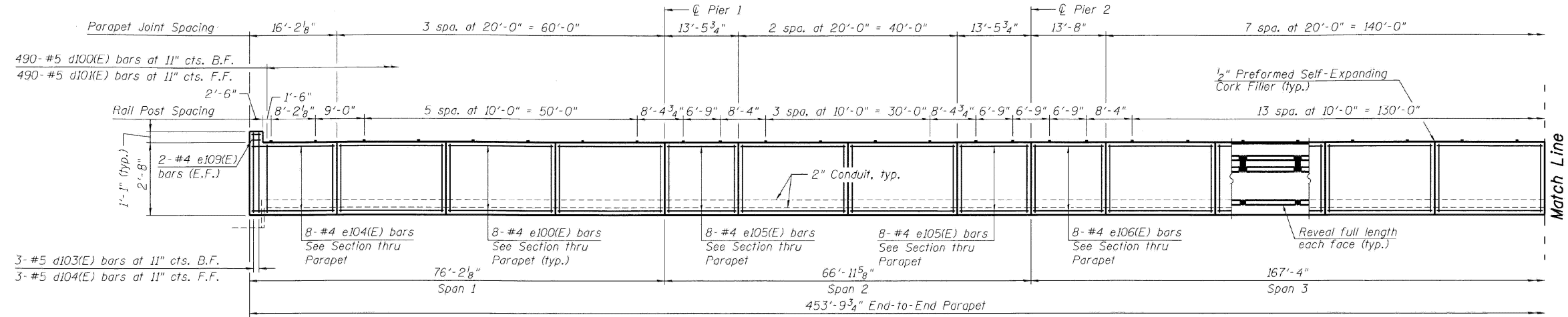
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ILLINOIS FED. AID PROJECT

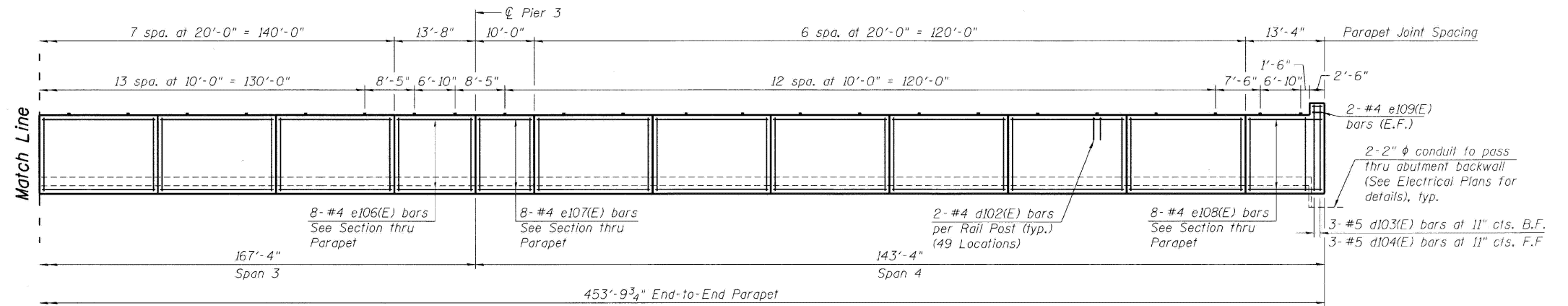
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USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

FOR INFORMATION ONLY



INSIDE ELEVATION OF NORTH PARAPET
(Looking North)



INSIDE ELEVATION OF NORTH PARAPET
(Looking North)

NORTH PARAPET ELEVATION AND DETAILS
STRUCTURE NO. 016-1707

LOCATION 22: VAN BUREN ST OVER I-90/94 (SN 016-1707)
EXISTING STRUCTURE DETAILS

SCALE: SHEET A006 OF 7 SHEETS STA. TO STA.

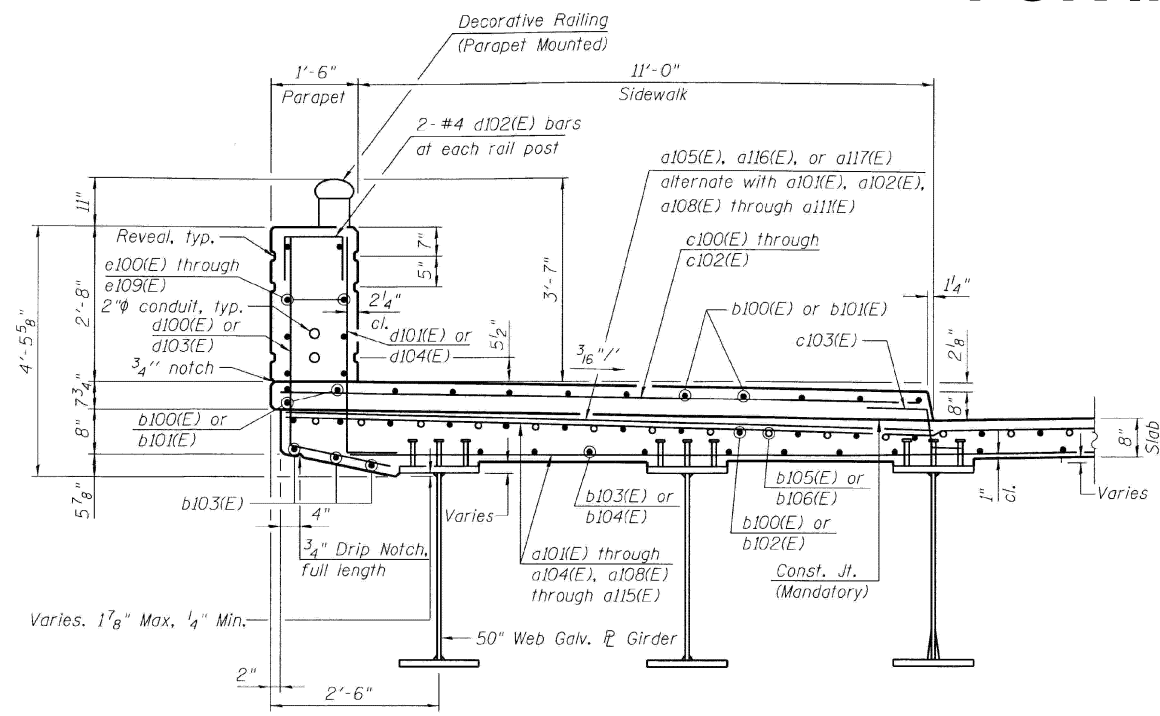
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	105
CONTRACT NO. 62X44				

ILLINOIS FED. AID PROJECT

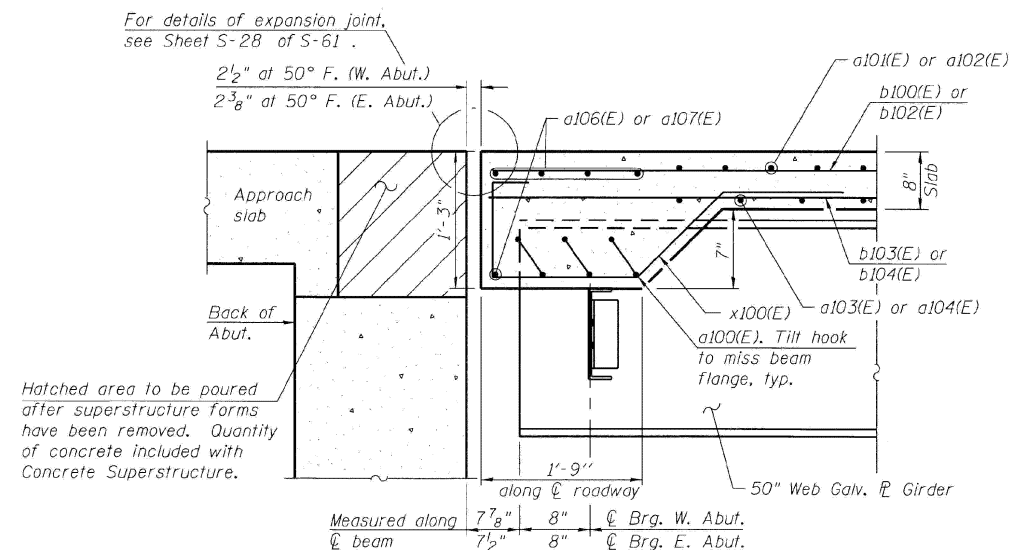
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	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY



SECTION THROUGH NORTH PARAPET AT PIER
(Looking Up-Station at Pier. South Parapet similar, opposite hand)



SECTION THROUGH EXPANSION JOINT AT RIGHT ANGLE
(Looking North, West joint shown, East joint similar)

MODEL: 100 (Sheet) FILE NAME: c:\pwworking\oldiazad\11677701D-102925-shr-details.dgn

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 016-1707**

USER NAME = ivan.diaz	DESIGNED -	REVISED -
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	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 22: VAN BUREN ST OVER I-90/94 (SN 016-1707)
EXISTING STRUCTURE DETAILS**

SCALE: SHEET A007 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	106
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

BENCH MARK No. 1:
Sta. 0+872.731, 3.953 m Rt.
S. Flange Bolt of F.H. N.E. Corner, Harlem Ave & Higgins Road - Elev. 199.115.

FOR INFORMATION ONLY

Sta. 1+050.000, 3 mm Rt. @ Harlem Ave. =
Sta. 1+049.996 @ Harlem Ave. Bridge
Sta. 1+000.000 @ Harlem Ave. =
Sta. 0+949.998 @ Harlem Ave. Bridge =
Sta. 0+999.999 @ Harlem Ave. Bridge =
Sta. 1+000.000, 9 mm Rt. @ Harlem Ave.

SHEET 51 OF 530

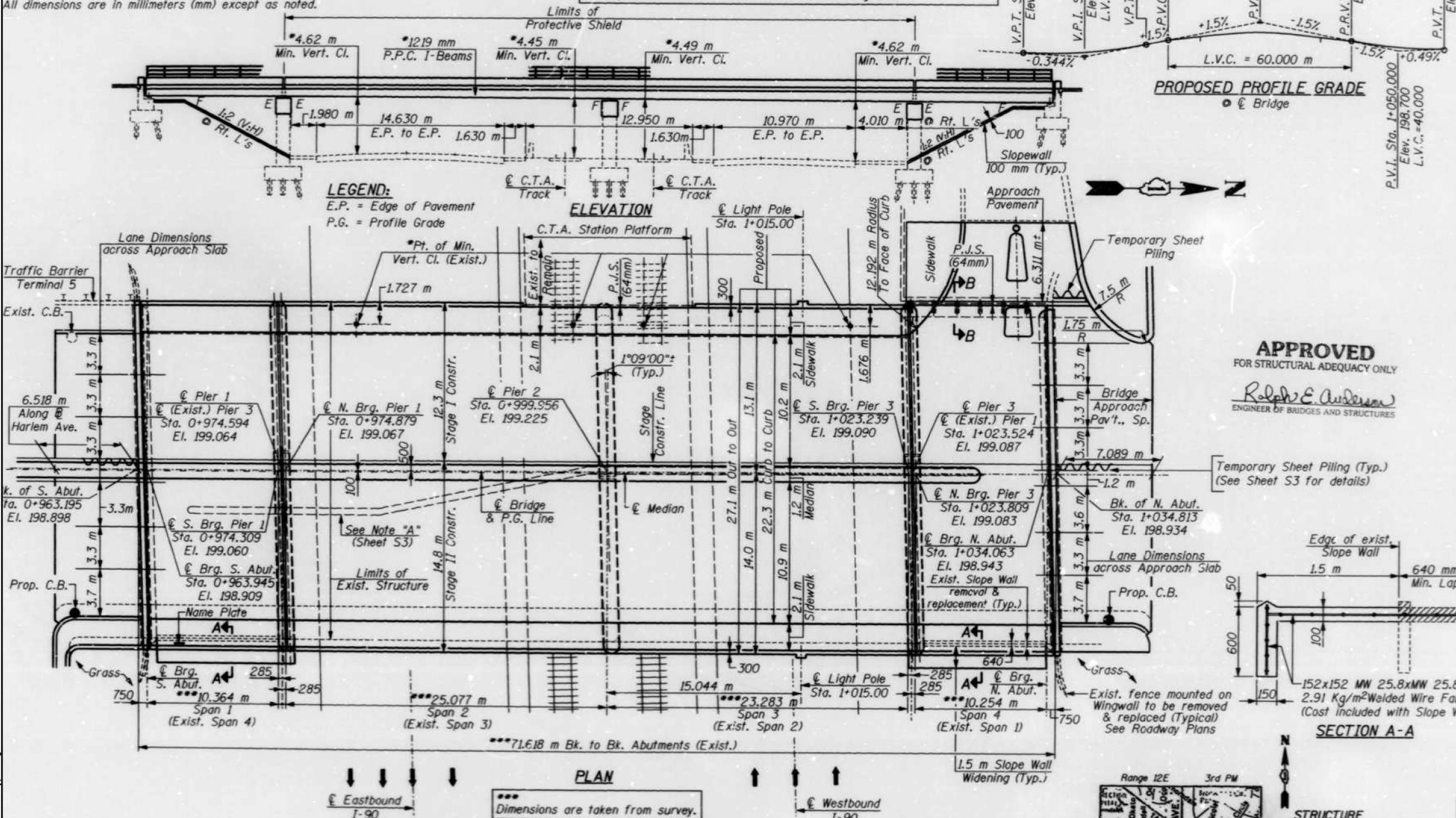
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1415.2B	COOK	164	81
STA. 1+000.000		TO STA. 1+050.000		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

EXISTING STRUCTURE: NO. 016-0309

The Structure was built under Section 267-1415.2-15D in 1958 as F.A. Route 173. The existing Bridge has four simple spans which consist of a cast in place concrete deck on 1219 mm Precast Prestressed Concrete I-Beams. The Substructure consist of open Abutments with short Wingwalls and multi-column Piers. Span lengths measured in the field (surveyed) are 10.649 m, 25.362 m, 23.560 m and 10.539 m respectively from South to North for a total length of 70.118 m @ Brg. to @ Brg. Abutments. The Deck Slab is 178 mm thick. The Roadway is 21.02 m wide, face to face of curb including a 600 mm Median. The Median jogs from one side of the Bridge to the other allowing two through lanes and a left turn lane in each direction. The deck out-to-out width is 26.2 m including 2.59 m sidewalk on each side. A Southbound drop off lane for cars and busses was added at some point after the Bridge was constructed. The west side of the Bridge is connected to the Harlem Avenue CTA Train/Bus station by Roadway Joints at two locations. Specifically, the Pedestrian lobby entrance is centered on the center Pier and a 2 lane Bus Station exit is adjacent to the most northerly span (Span 1) and the North Abutment. The Bridge Superstructure will be removed and replaced with a wider Deck of 27.100 m out to out. All Beams, Bearings and Pier Caps will be replaced. Traffic shall be maintained utilizing Stage Construction.

No Salvage
Note:
All dimensions are in millimeters (mm) except as noted.

* Vert. Clearances shown are existing clearances measured in the field. The Vert. clearances shown at the track location were measured from the top of the rail to the bottom of the Existing Beam.



LEGEND:
E.P. = Edge of Pavement
P.G. = Profile Grade

ELEVATION
C.T.A. Station Platform
Light Pole Sta. 1+015.00

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

INDEX OF SHEETS

1. GENERAL PLAN AND ELEVATION
2. GENERAL NOTES & TOTAL BILL OF MATERIAL
3. CONSTRUCTION STAGING
4. TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
5. TOP OF SLAB ELEVATIONS-I
6. TOP OF SLAB ELEVATIONS-II
7. TOP OF SLAB ELEVATIONS-III
8. TOP OF SLAB ELEVATIONS-IV
9. TOP OF SLAB ELEVATIONS-V
10. DECK PLAN
11. SIDEWALK PLANS & PARAPETS
12. DECK CROSS SECTION & SUPERSTRUCTURE DETAILS
13. BRIDGE FENCE RAILING, PARAPET MOUNTED
14. EXPANSION DEVICES
15. FRAMING PLAN & DETAILS
16. DIAPHRAGM DETAILS
17. PRESTRESSED BEAM DETAILS SPANS 1 & 4
18. PRESTRESSED BEAM DETAILS SPAN 2
19. PRESTRESSED BEAM DETAILS SPAN 3
20. BEARING DETAILS @ ABUTMENTS
21. BEARING DETAILS @ PIERS 1 & 3
22. ANCHOR BOLT DETAILS FOR BEARINGS
23. CONCRETE REMOVAL DETAILS
24. SOUTH ABUTMENT
25. NORTH ABUTMENT
26. CONCRETE REMOVAL & PIER REPAIR
27. PIER 1
28. PIER 2
29. PIER 3
30. BAR SPLICER (COUPLER) DETAILS



Bhadesh N. Shah AUG. 13, 1999
BHADRESH N. SHAH
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS LIC. NO. 081-004476
EXPIRES: 11-30-00

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
IL. ROUTE 43 (HARLEM AVENUE)
OVER
INTERSTATE 90 (KENNEDY EXPRESSWAY)
COOK COUNTY STATION 0+999.956
STRUCTURE NO. 016-0309
SCALE: DATE: AUGUST 13, 1999
DRAWN BY: F. MUNER
CHECKED BY: B. SHAH
CHRISTIAN - ROGE & ASSOC.
CHICAGO ILLINOIS

Notes:
Utilities shown to be relocated by others.
See Sht. S23 Section B-B for removal of brackets.

DESIGN SPECIFICATIONS
AASHTO 1996 & 1997 Interim
LOADING MS18
Allow 2.4 kN/m² for future wearing surface.

DESIGN STRESSES
FIELD UNITS
f_c = 24 MPa
f_y = 400 MPa (Reinforcement)
PRECAST PRESTRESSED UNITS
f_c = 42 MPa
f_{ci} = 35 MPa
f_{ps} = 1,860 MPa (12.7 mm φ low lax. strands)
f_{pu} = 1,395 MPa (12.7 mm φ low lax. strands)

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.038g
Site Coefficient (S) = 1.0



REVISIONS

NAME	DATE

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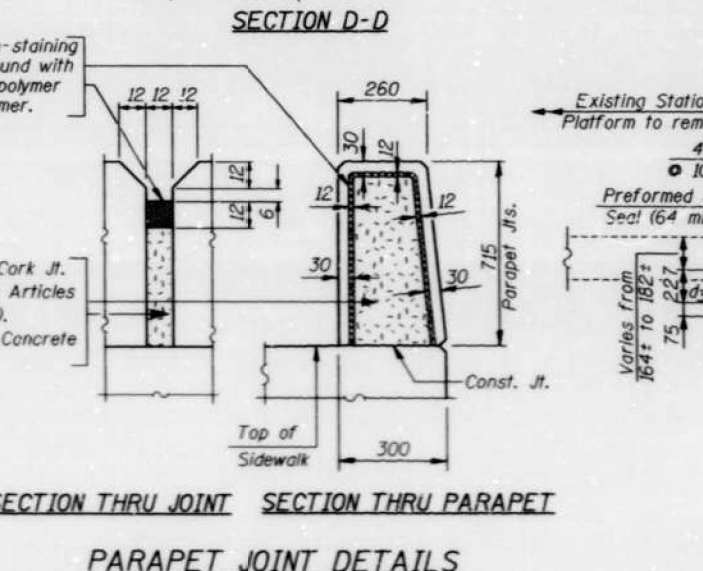
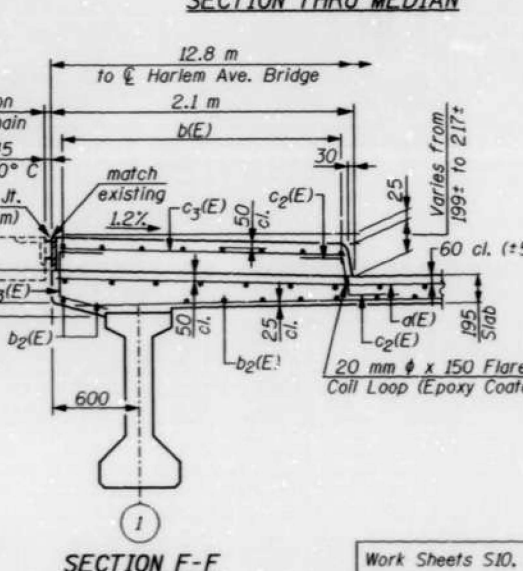
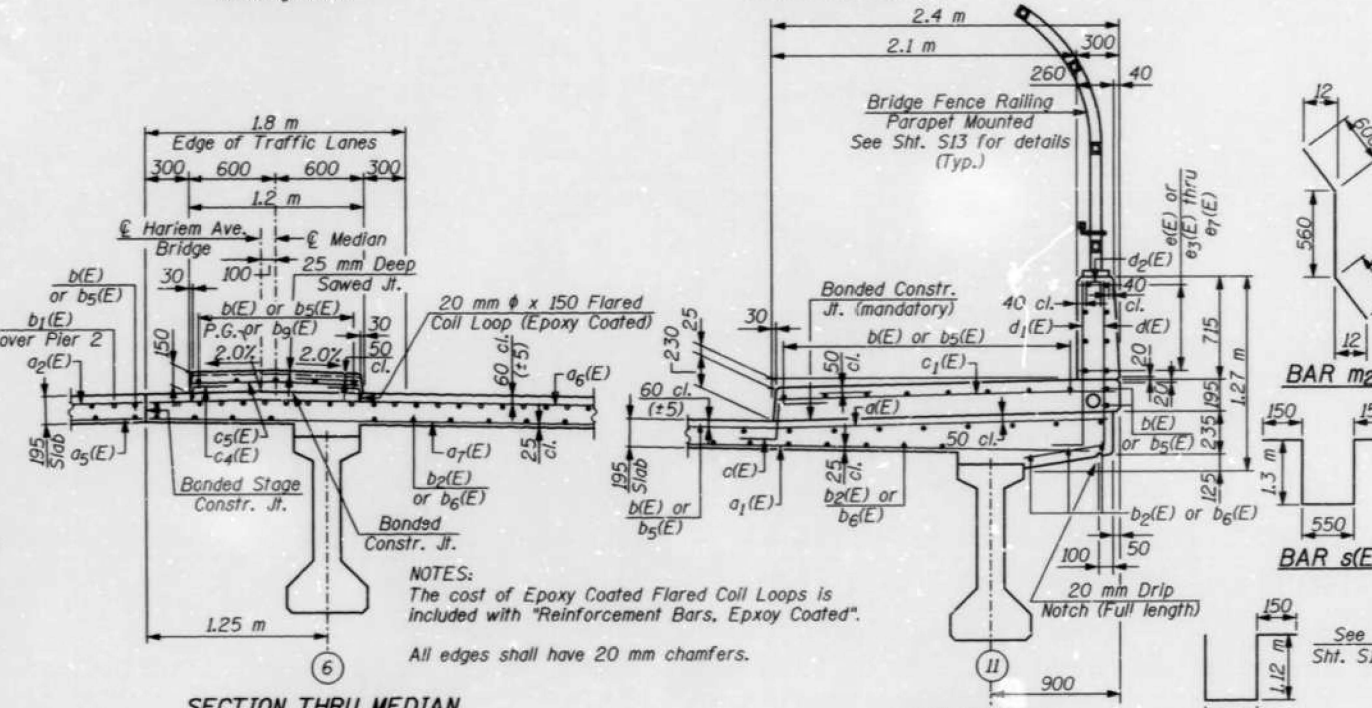
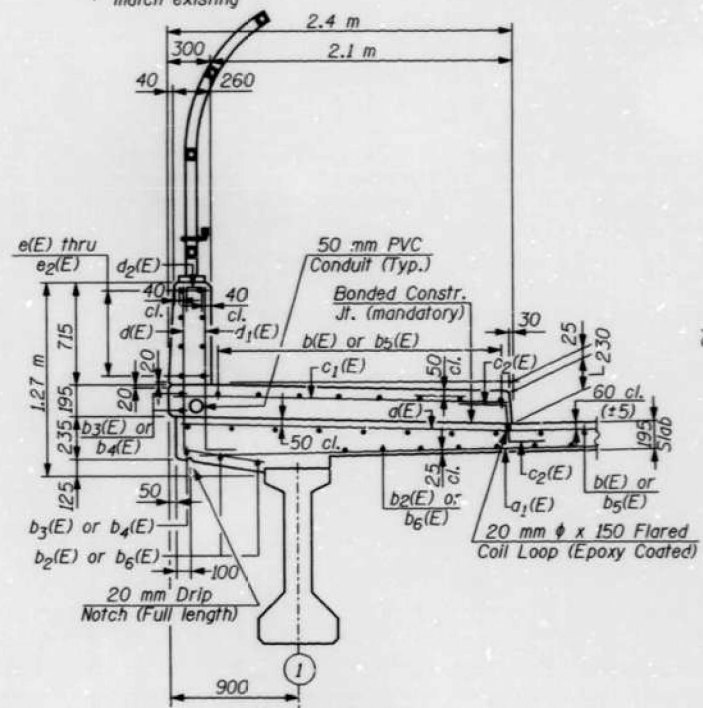
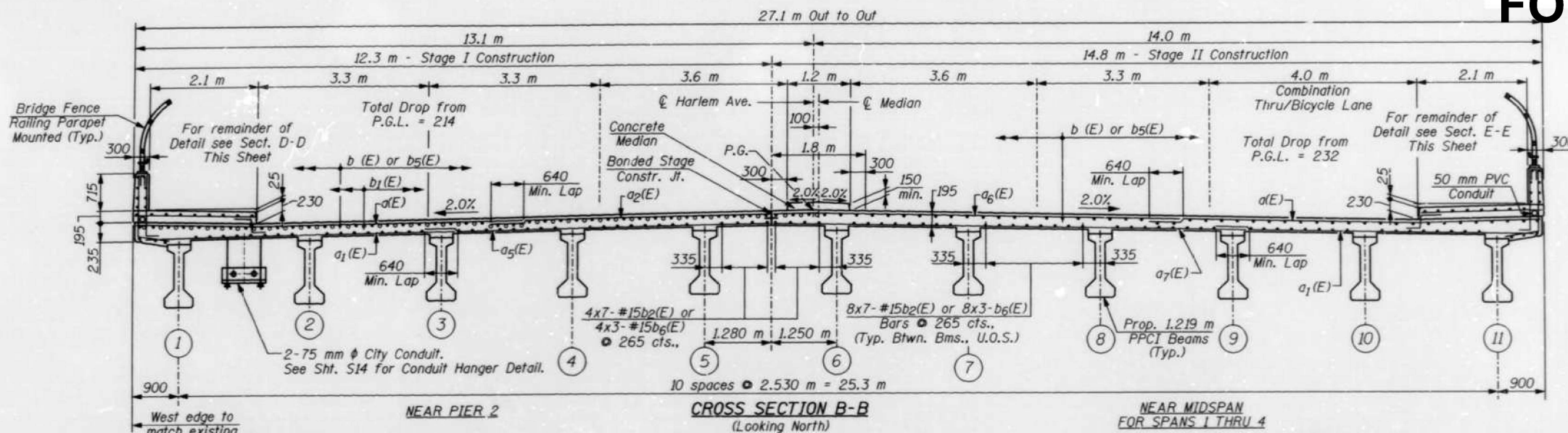
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	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 23: IL43 (HARLEM AVE) OVER I-90 (SN 016-0309)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 001 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	107
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
a1(E)	894	#15	7.46	—
a2(E)	632	#15	5.77	—
a3(E)	447	#15	5.35	—
a4(E)	48	#25	6.61	—
a5(E)	200	#20	2.26	—
a6(E)	316	#15	6.62	—
a7(E)	447	#15	7.86	—
a8(E)	316	#15	9.12	—
a9(E)	48	#25	7.86	—
b1(E)	678	#15	8.56	—
b2(E)	170	#25	10.6	—
b3(E)	602	#15	7.41	—
b4(E)	12	#15	6.63	—
b5(E)	8	#15	8.97	—
b6(E)	434	#15	5.66	—
b7(E)	516	#15	3.00	—
b8(E)	8	#15	1.86	—
b9(E)	8	#15	2.05	—
b9(E)	5	#15	4.10	—
c1(E)	238	#15	0.73	—
c2(E)	410	#15	2.30	—
c3(E)	460	#15	0.44	—
c4(E)	40	#15	2.00	—
c5(E)	432	#15	0.47	—
c5(E)	216	#15	1.08	—
d1(E)	398	#15	1.58	—
d2(E)	398	#20	1.32	—
d3(E)	102	#15	0.61	—
d4(E)	40	#15	0.98	—
d5(E)	6	#20	1.43	—
d6(E)	12	#20	2.76	—
e1(E)	32	#15	5.36	—
e2(E)	32	#15	4.66	—
e3(E)	24	#15	5.75	—
e4(E)	16	#15	5.31	—
e5(E)	32	#15	5.06	—
e6(E)	8	#15	2.87	—
e7(E)	8	#15	3.09	—
e8(E)	32	#15	5.46	—
m1(E)	120	#15	2.26	—
m2(E)	60	#20	1.89	—
m3(E)	11	#25	1.76	—
u1(E)	1	#15	2.90	—
s1(E)	70	#15	3.45	—
s2(E)	140	#15	2.64	—
x1(E)	280	#20	1.53	—
x2(E)	640	#20	2.23	—
Concrete Superstructure		m ³	566.8	—
Reinforcement Bars, Epoxy Coated		kg	80,440	—
Bar Splicers		Each	809	—

Reinforcement Bars designated (E) shall be Epoxy Coated.
Bars indicated thus 5x10-#15 Bars etc., indicates 5 lines of Bars with 10 lengths per line.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK CROSS SECTIONS & SUPERSTRUCTURE DETAILS
IL. ROUTE 43 (HARLEM AVENUE) OVER INTERSTATE 90 (KENNEDY EXPRESSWAY) COOK COUNTY STATION 0+999.956 STRUCTURE NO. 016-0309
SCALE: DATE: DRAWN BY: F. MUNIR CHECKED BY: B. SHAH
CHRISTIAN - ROGE & ASSOC. CHICAGO ILLINOIS

REVISIONS	
NAME	DATE

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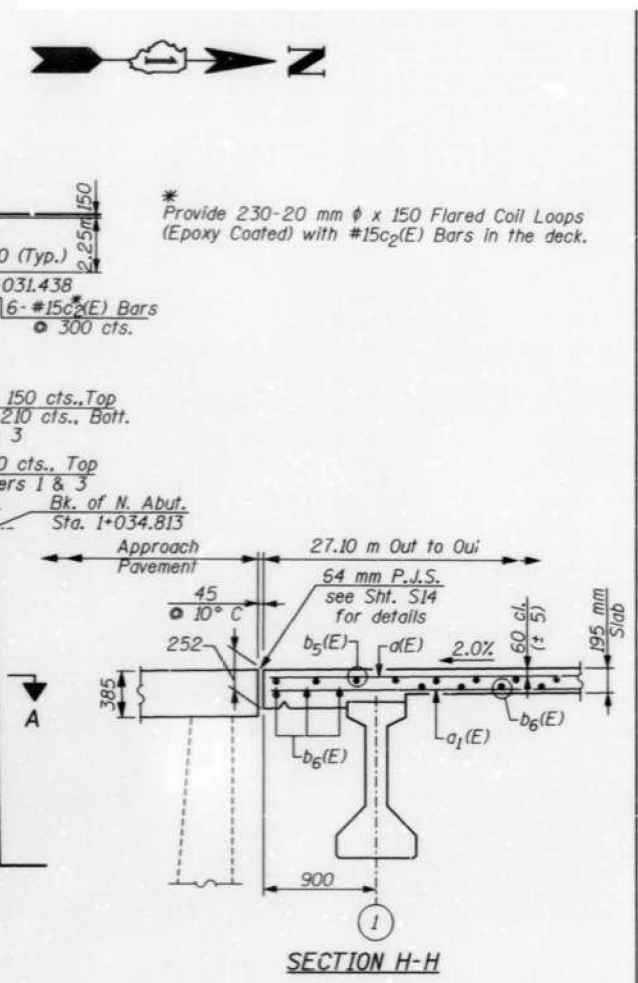
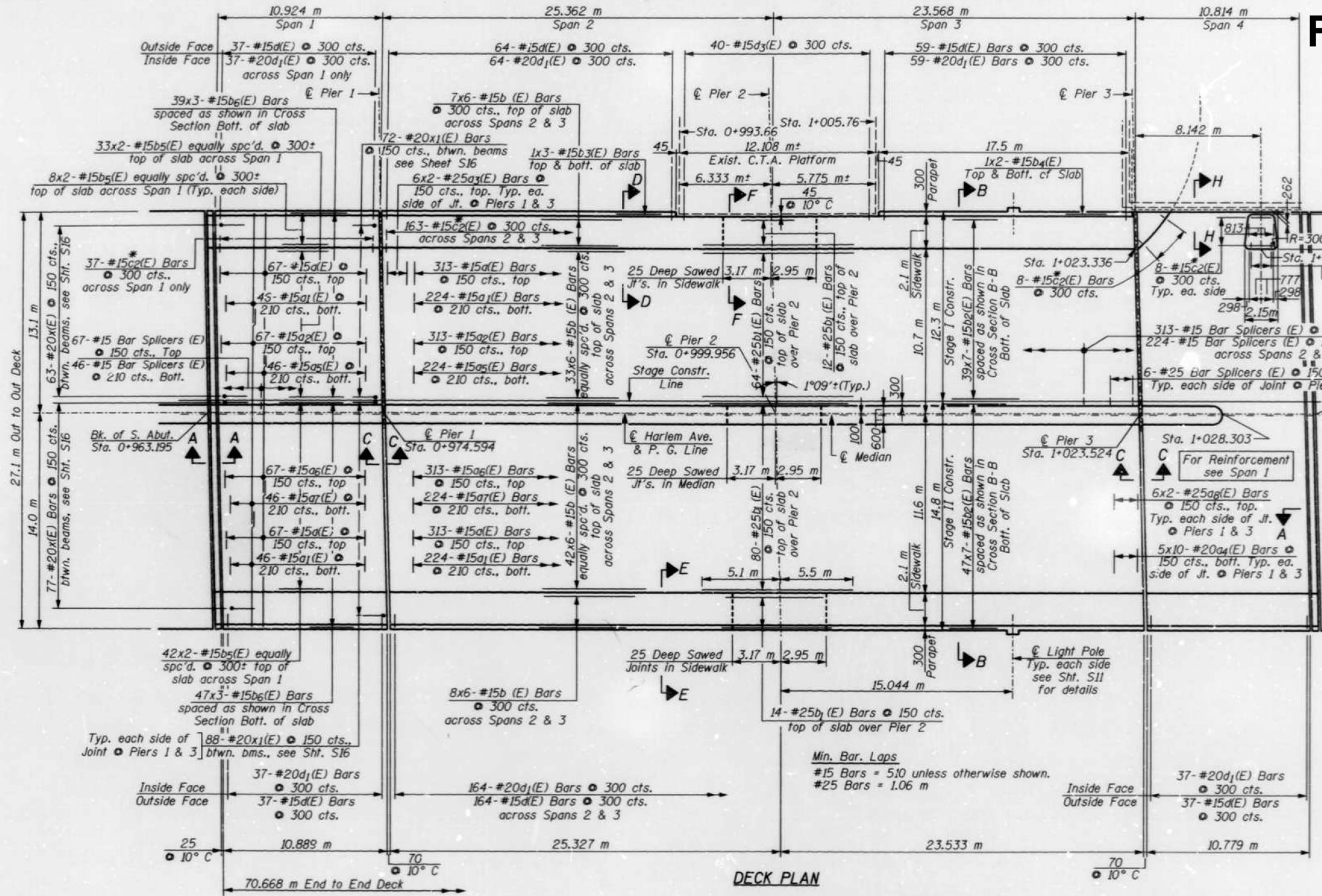
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

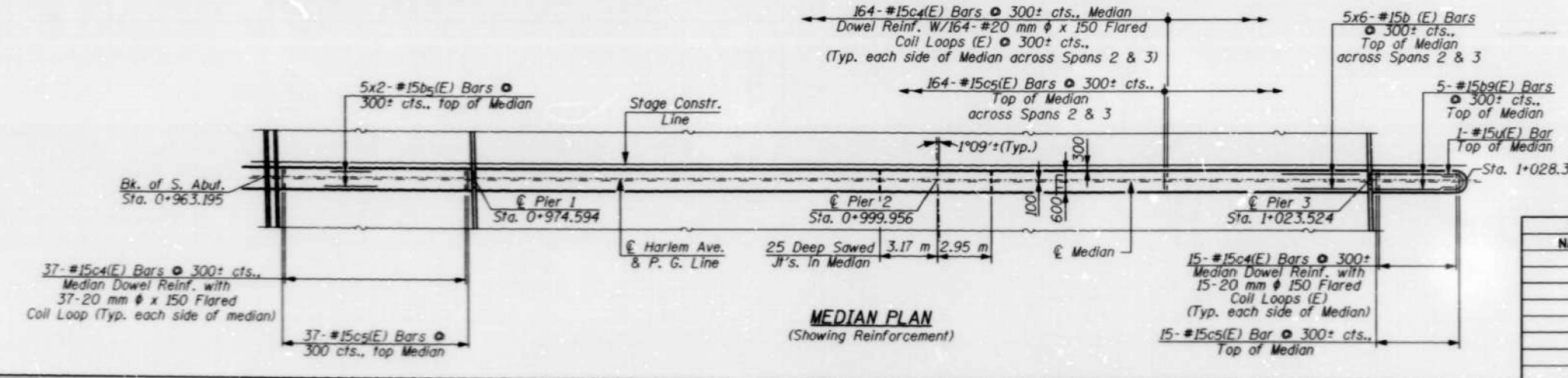
LOCATION 23: IL43 (HARLEM AVE) OVER I-90 (SN 016-0309)
EXISTING STRUCTURE DETAILS
SCALE: SHEET 002 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	108
			CONTRACT NO. 62X44	
			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY



Notes:
 See Sht. S12 for Superstructure Details and Bill Of Material.
 Reinforcement Bars designated (E) shall be Epoxy Coated.
 See Sht. S11 for Sidewalk and Parapet Reinforcement.
 See Sht. S12 for Deck Cross Section.
 See Sht. S14 for Expansion Joint Details.
 For Sections A-A, C-C & Diaphragm Details see Shi. S16.
 Bars indicated thus 47x7-#15 etc., indicates 47 lines of Bars with 7 lengths per line.
 See Sheet S30 for Bar Splicer Details.
 See Lighting Plans for the locations and details for Underpass Lighting. Provide Expansion Anchors, heavy duty as approved by the Engineer for Luminaire Hanger Assembly. For details see Lighting Plans. Cost of Expansion Anct.ors included with Concrete Superstructure.
 The cost of Epoxy Coated Flared Coil Loops is included with "Reinforcement Bars, Epoxy Coated"
 All dimensions are in millimeter (mm.) except as noted.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION			
DECK PLAN			
IL. ROUTE 43 (HARLEM AVENUE) OVER INTERSTATE 90 (KENNEDY EXPRESSWAY) COOK COUNTY STATION 0+999.956 STRUCTURE NO. 016-0309			
SCALE:	DATE:	DRAWN BY: F. MUNIR	CHECKED BY: B. SHAH
CHRISTIAN - ROGE & ASSOC.			
CHICAGO ILLINOIS			

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 23: IL43 (HARLEM AVE) OVER I-90 (SN 016-0309)
EXISTING STRUCTURE DETAILS**

SCALE: SHEET 003 OF 4 SHEETS STA. TO STA.

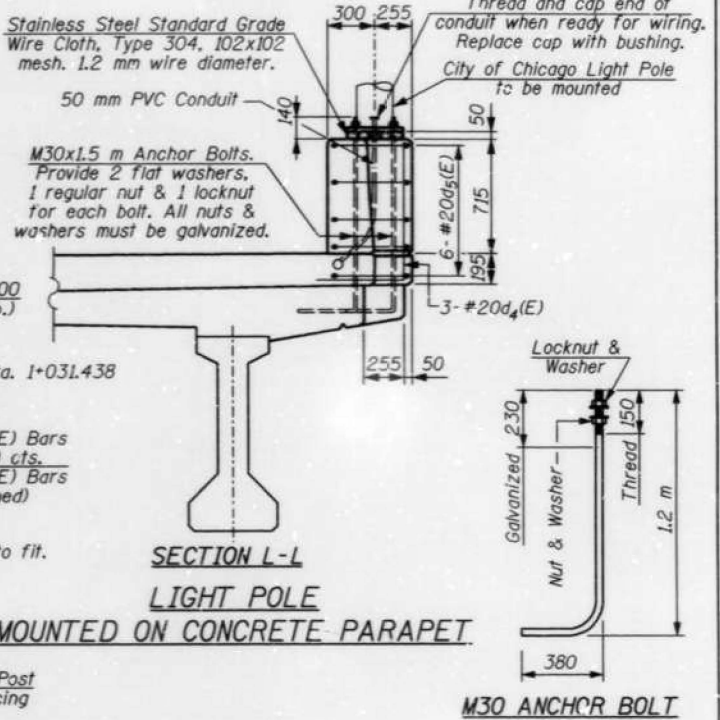
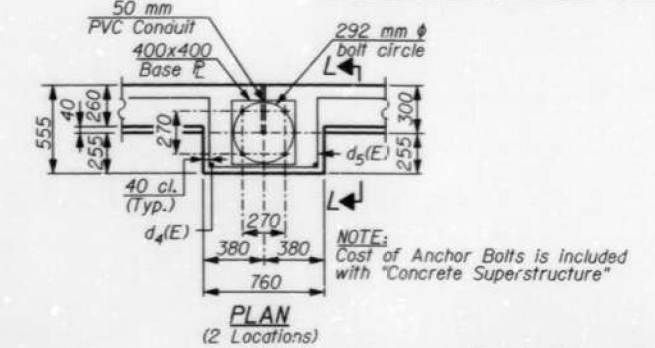
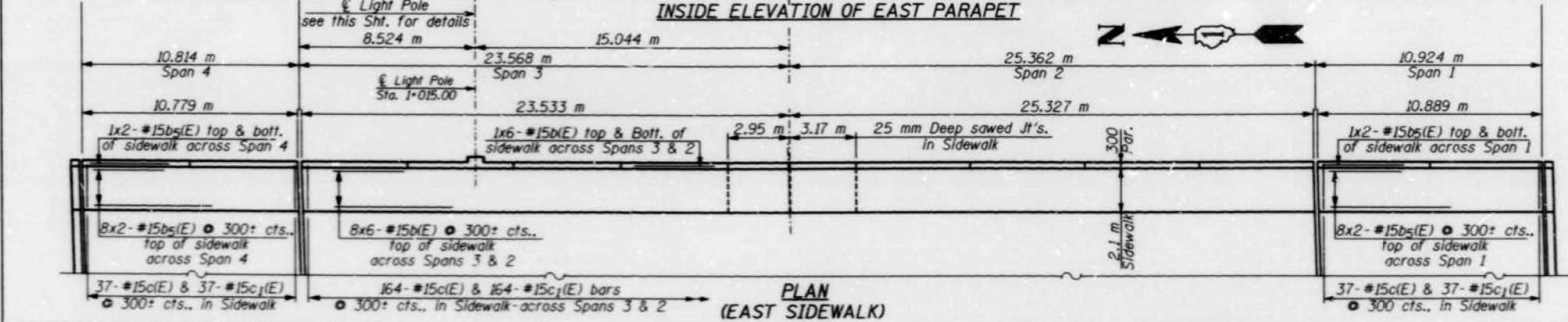
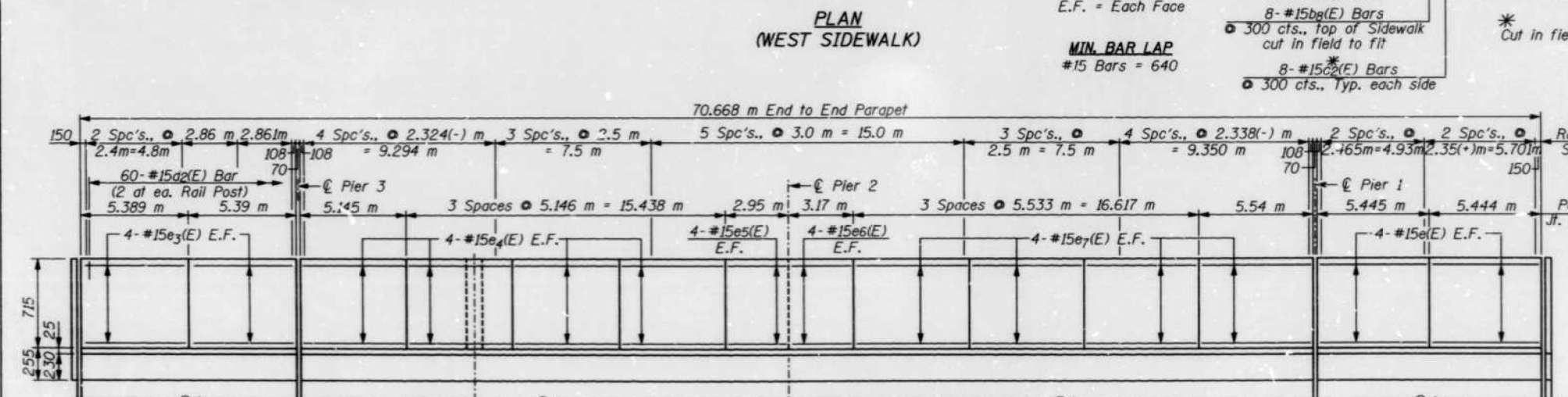
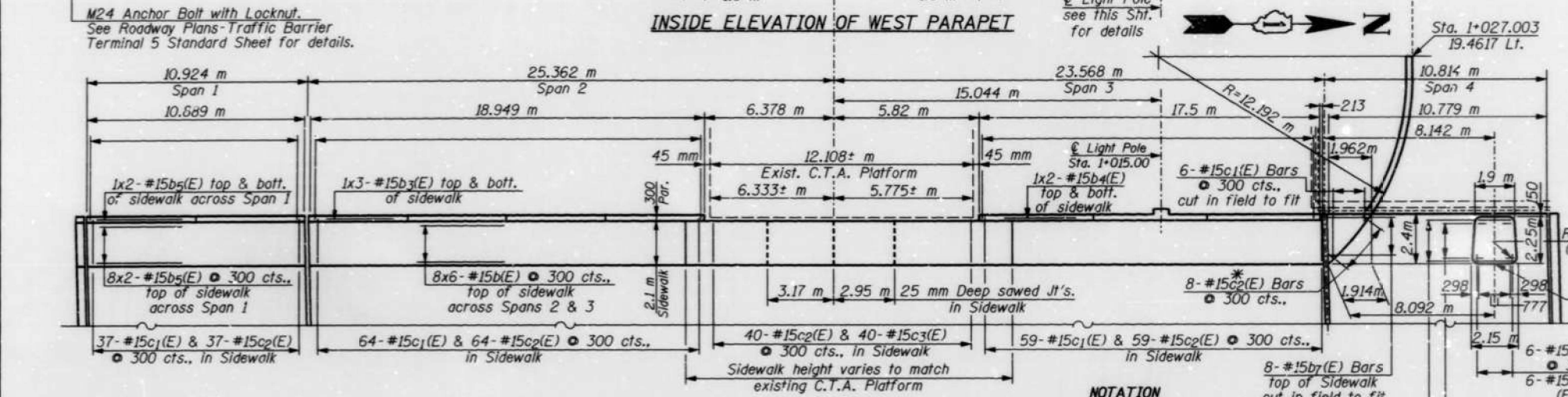
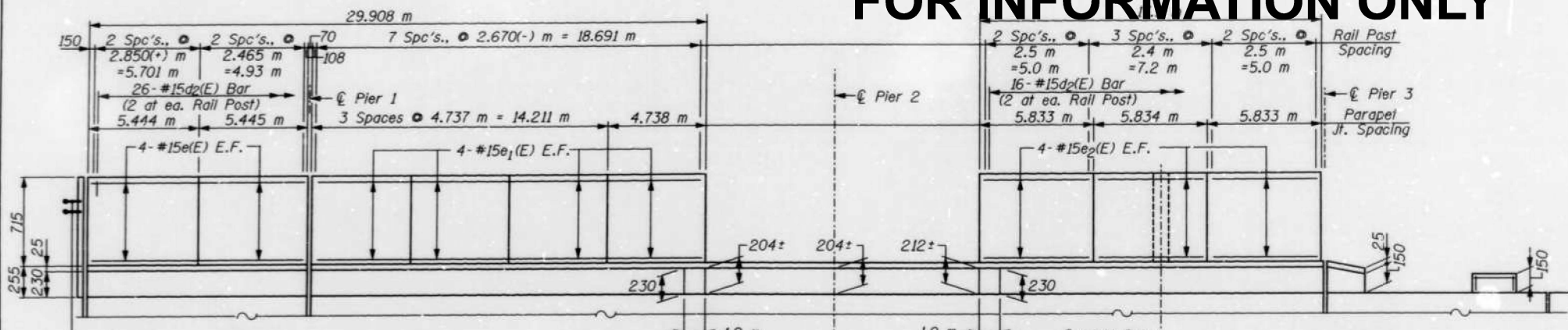
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	109
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

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FOR INFORMATION ONLY

SHEET S11 OF S30

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1415.2B	COOK	164	91
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		



NOTES:

See Sht. S12 for Superstructure Bill of Material.

Reinforcement Bars designated (E) shall be Epoxy Coated.

Bars indicated thus 5x10-#15 etc., indicates 5 line of bars with 10 lengths per line.

See Sht. S12 for Section thru Parapet, Section thru Sidewalk and Parapet Joint Details.

All dimensions are in millimeters (mm) except as noted.

See Lighting Plans for details of Embedded Conduit & Luminaire Hanger Assembly Details for Underpass Lighting.

See Sht. S13 for details of Rail Post for Bridge Fence Railing.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SIDEWALK PLANS & PARAPETS
 IL. ROUTE 43 (HARLEM AVENUE) OVER INTERSTATE 90 (KENNEDY EXPRESSWAY) OVER COOK COUNTY STATION 0+999.956 STRUCTURE NO. 016-0309
 SCALE: DATE: DRAWN BY: F. MUNIR CHECKED BY: B. SHAH
CHRISTIAN - ROGE & ASSOC.
 CHICAGO ILLINOIS

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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
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PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 23: IL43 (HARLEM AVE) OVER I-90 (SN 016-0309)
 EXISTING STRUCTURE DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	110
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

Benchmark:
B.M. El. 15.52
"□" on NE corner of pedestal on electrical vault at SW corner of Washington Blvd. Bridge (S.N. 016-0601)
All Elevations are based on the Chicago City Datum (C.C.D.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

See Architectural plans for bridge mounted sign structures.

ROUTE NO.	SECTION	COUNTY	SHEETS	"28"	SHEET NO. 51
F.A.U. 1414	0202.2-2B	COOK	147	65	538 SHEETS
FED. ROAD DIST. NO. 7	PLANER	FED. AID PROJECT			

DESIGN SPECIFICATIONS

1996 AASHTO, 1997 and 1998 Interims.
1995 Seismic Retrofitting Manual for Highway Bridges (FHWA-RD-94-052).

LOADING HS20

Allow 50 psf. for future wearing surface

DESIGN STRESSES

NEW CONSTRUCTION

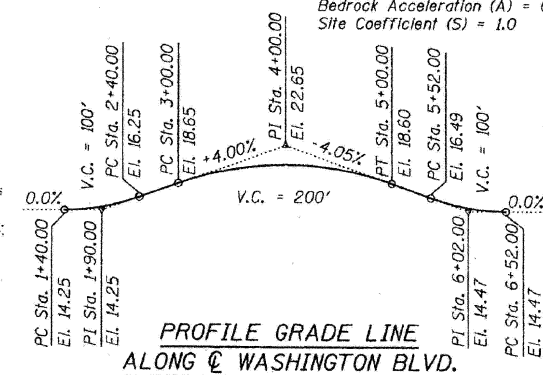
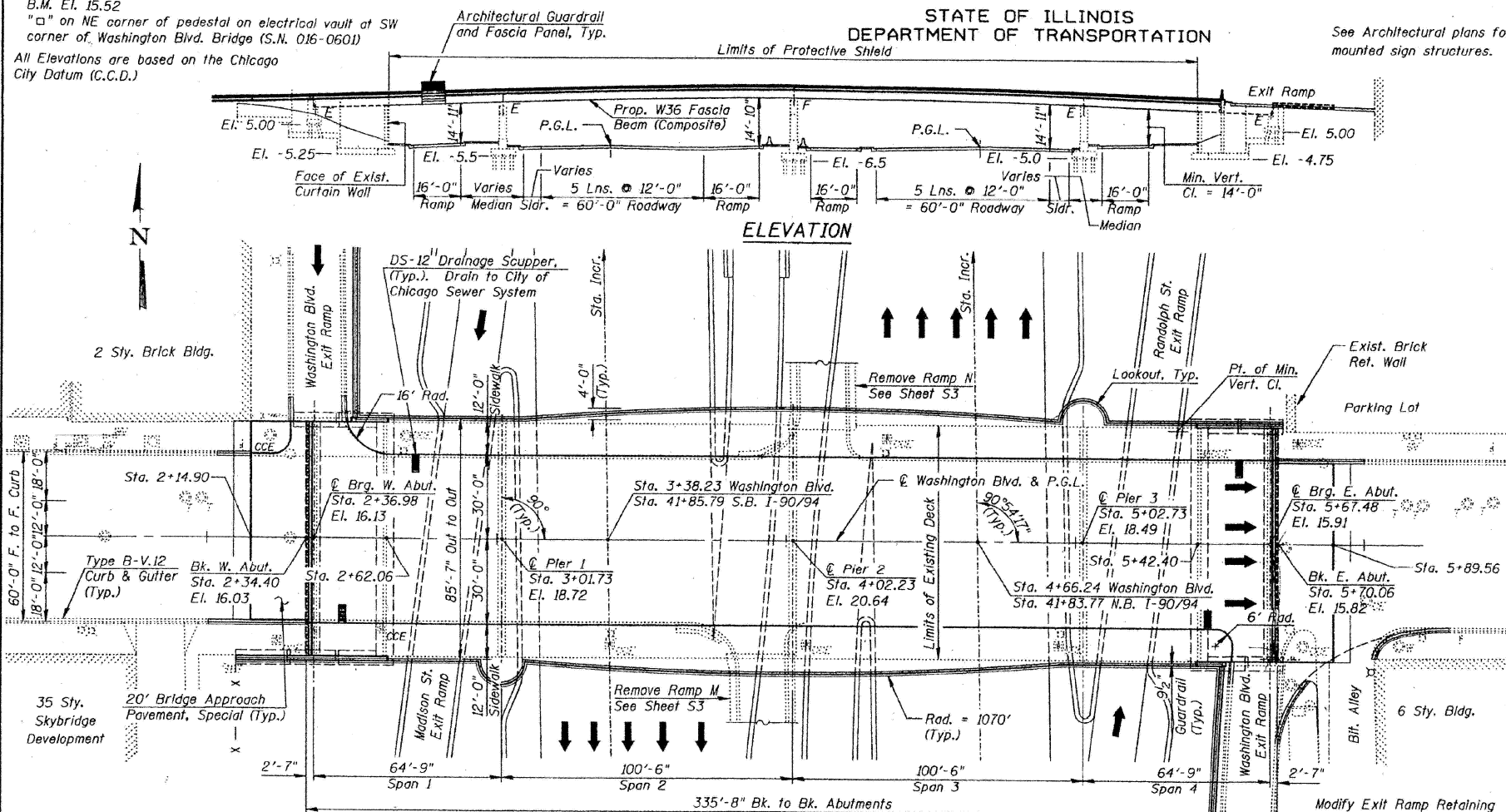
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)
 $f_y = 36,000$ psi (Structural Steel M270 Grade 36)
 $f_y = 50,000$ psi (Structural Steel M270 Grade 50)

EXISTING CONSTRUCTION

$f'_c = 3,500$ psi
 $f_s = 20,000$ psi (Reinf.)
 $f_y = 33,000$ psi (Structural Steel)
 $n = 10$

SEISMIC DATA

Seismic Performance Category (S.P.C.) = A
Bedrock Acceleration (A) = 0.04 g
Site Coefficient (S) = 1.0



EXISTING STRUCTURE DESCRIPTION:

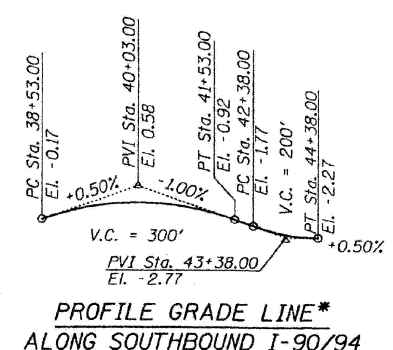
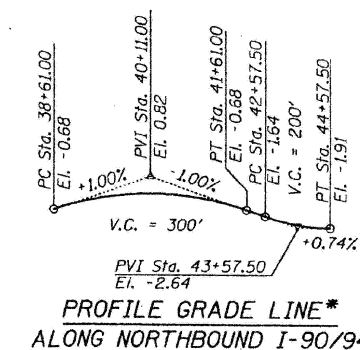
The Washington Blvd. Bridge (SN 016-0601) was built as F.A. Route 173, Section 0202.2-2B in 1954. The structure is a four-span continuous composite steel beam bridge with a reinforced concrete deck and bituminous overlay. The span lengths are: 64'-9", 2 x 100'-6" and 64'-9" and the total length back to back of abutments is 335'-8". The deck is 82'-6" wide and carries four traffic lanes. The structure skew is 0°00'00". The bridge is supported by stub abutments and multi-column piers founded on timber piles. The bridge shall be closed to traffic during rehabilitation. No salvage.

The Ramps M and N Bridges (SN 016-0601) were built as F.A.I. Route No. 2, Section 0202.6-1P in 1958. The ramps are three-span simply supported, composite steel beam bridges with reinforced concrete decks and bituminous overlays. The span lengths are: 55'-9", 56'-6" and 56'-4" and the ramps are connected to retained fill structures. The decks are 22'-6" wide and carry one lane of traffic. The ramps are skewed 0°54'17" relative to Washington Blvd. The ramps are supported by stub abutments and single column hammerhead piers founded on caissons and retaining walls founded on piles and caissons. Both ramps shall be removed. No salvage.

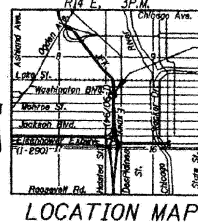
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CHECKED	SF
DRAWN	BLU
CHECKED	SF

DATE: 04-14-03

PLAN



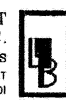
APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



Project Location
Date: 04-14-03
License
Expires: November 30, 2004

GENERAL PLAN & ELEVATION
WASHINGTON BLVD. (F.A.U. 1414)
OVER I-90/94 KENNEDY EXPWY.
SECTION 0202.2-2B-R

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
130 E. RANDOLPH STREET
CHICAGO, ILLINOIS 60601
JOB NO. 475



COOK COUNTY
STATION 4+02.23
S.N. 016-0601

MODEL: 21 (Sheet)
FILE NAME: c:\pwworking\old\11677701\02025-shr\typical.dgn

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 24: WASHINGTON BLVD OVER I-90/94 JFK (SN 016-0601)
EXISTING STRUCTURE DETAILS

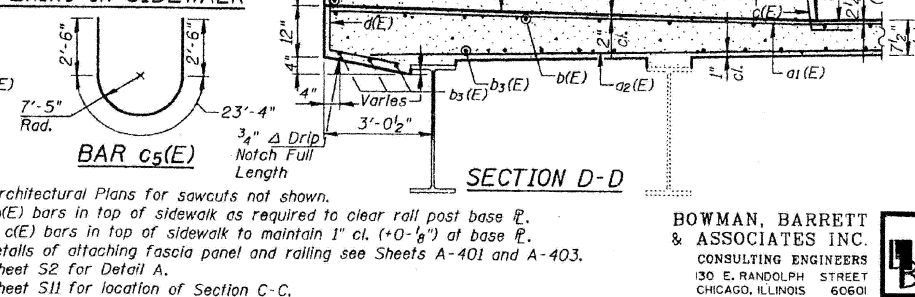
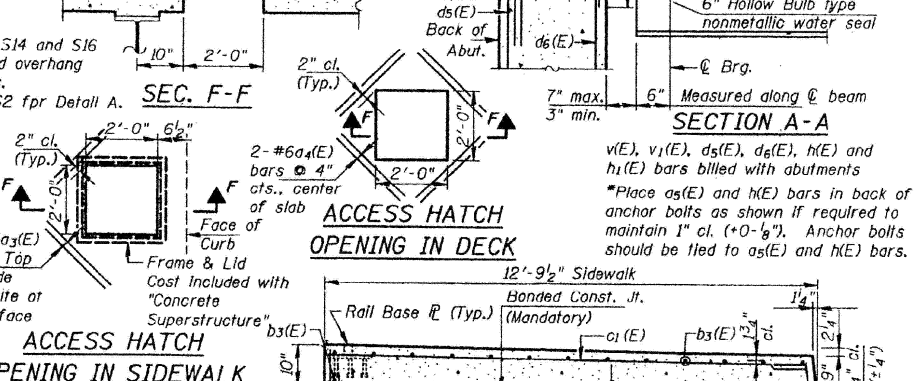
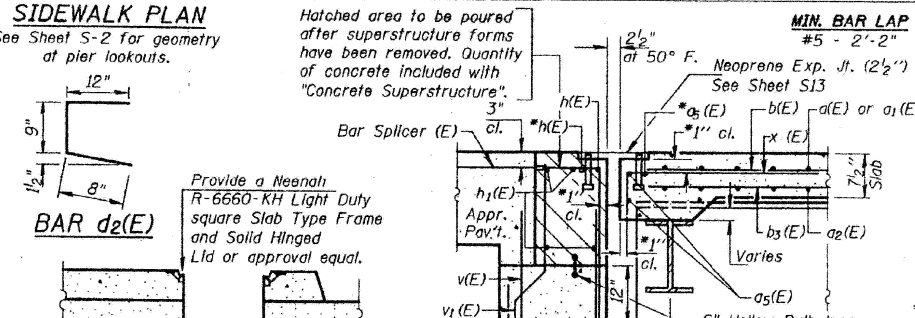
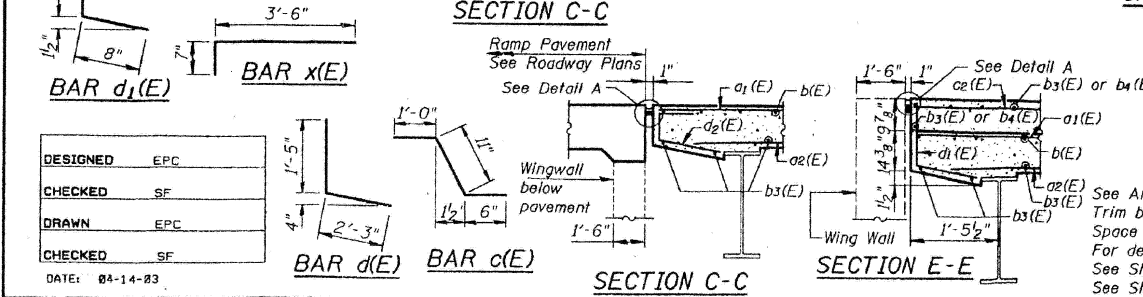
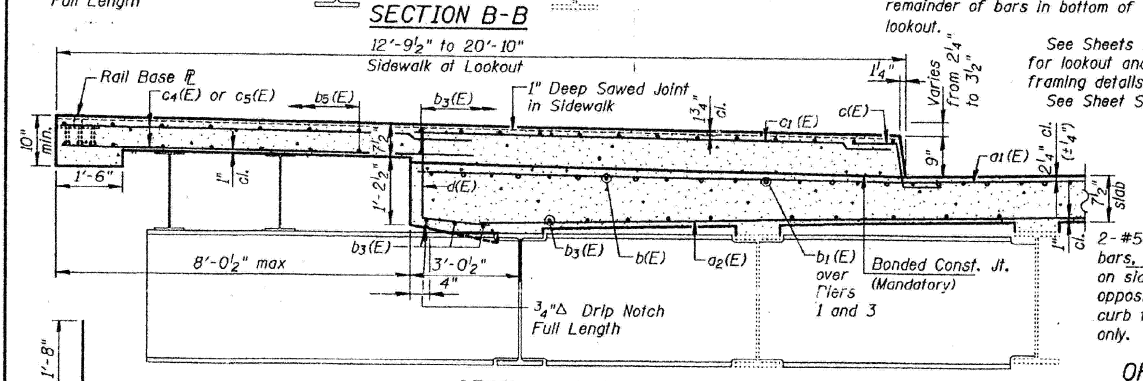
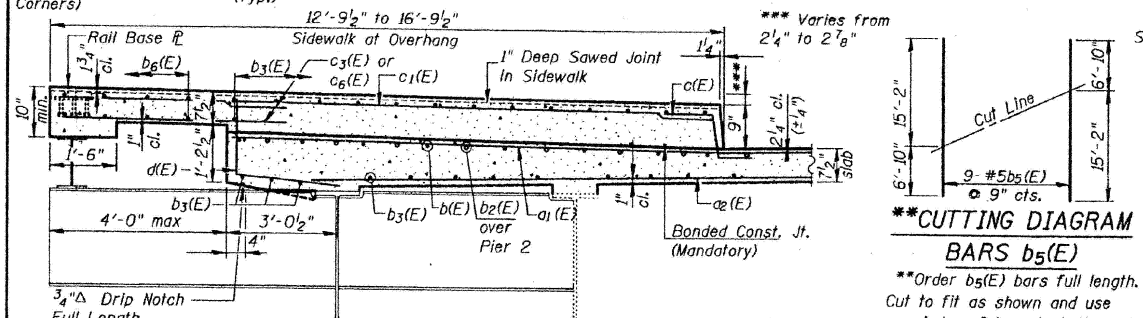
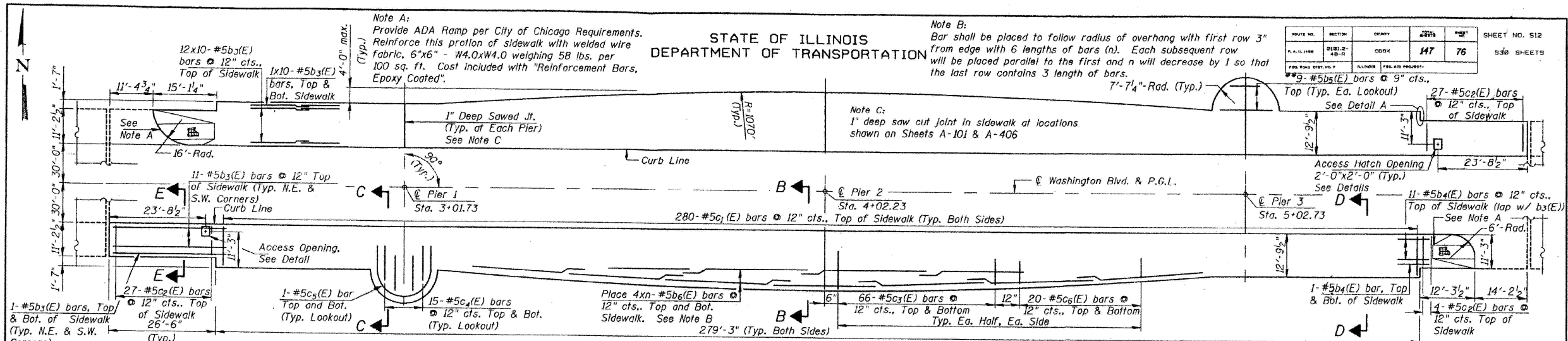
SCALE: SHEET 001 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	111
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. SECTION COUNTY SHEET NO. 512
147 76 538 SHEETS



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	1140	#5	30'-11"	
a2(E)	1140	#5	15'-0"	
a3(E)	1197	#5	29'-4"	
a4(E)	40	#5	2'-0"	
a5(E)	16	#6	4'-0"	
a6(E)	8	#5	43'-4"	
b1(E)	1118	#5	27'-6"	
b2(E)	170	#6	42'-0"	
b3(E)	255	#6	20'-5"	
b4(E)	1130	#5	29'-10"	
b5(E)	13	#5	8'-0"	
b6(E)	18	#5	22'-0"	
b7(E)	72	#5	33'-0"	
c1(E)	620	#5	2'-5"	
c2(E)	560	#5	12'-4"	
c3(E)	58	#5	10'-10"	
c4(E)	528	#5	6'-4"	
c5(E)	60	#5	10'-6"	
c6(E)	4	#5	28'-4"	
c7(E)	160	#5	4'-5"	
d1(E)	560	#5	3'-8"	
d2(E)	83	#5	2'-4"	
d3(E)	27	#5	2'-5"	
x(E)	168	#5	4'-1"	
Reinforcement Bars, Epoxy Coated		Lbs.	198,090	
Concrete Superstructure		Cu. Yd.	1016.0	
Protective Coat		Sq. Yd.	3,327	
Bridge Deck Grooving		Sq. Yd.	2,170	

Reinforcement bars designated (E) shall be epoxy coated.
Work this sheet with Sheet S11.
SUPERSTRUCTURE DETAILS
WASHINGTON BLVD. (F.A.U. 1414)
OVER I-90/94 KENNEDY EXPWY.
SECTION 0202.2-2B-R
COOK COUNTY
STATION 4+02.23
S.N. 016-0601

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
130 E. RANDOLPH STREET
CHICAGO, ILLINOIS 60601
JOB NO. 475

DESIGNED	EPC
CHECKED	SF
DRAWN	EPC
CHECKED	SF

DATE: 04-14-23

USER NAME	= Ivan.diaz
DESIGNED	-
DRAWN	-
CHECKED	-
PLOT DATE	= 12/4/2025
DATE	-
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 24: WASHINGTON BLVD OVER I-90/94 JFK (SN 016-0601)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 003 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	113
			CONTRACT NO. 62X44	
		ILLINOIS FED. AID PROJECT		

MODEL: 23 (Sheet)
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11/17/25 CADVA 28923 BRIDGES WASHV 4755dpp02.dgn
03/08/23 PM
05/14/2003

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0202.23-3B-R	COOK	226	11
STA. 1+349.960		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	ST. OF 52

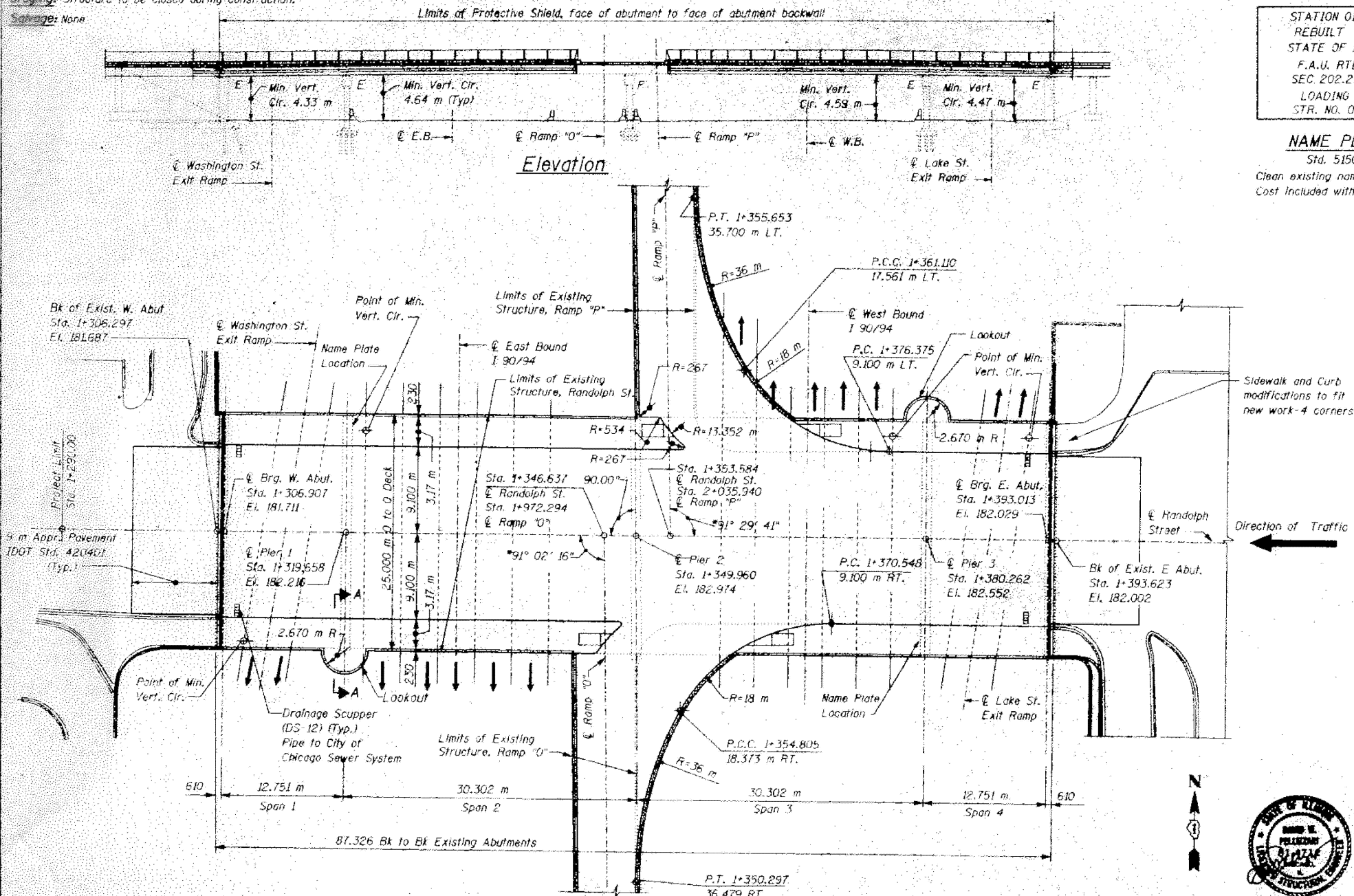
Structure Description:

SN 016-0608, Built in 1956 as FAU 1407, Sec. 202.23-3B-R. The Randolph St. Bridge over I-90/94 is a four-span (12,751 m, 30,302 m, 30,302 m, 12,751 m) continuous, multi-stringer, steel bridge that carries five west bound traffic lanes and two sidewalks. Bridge width is 15,200 m with 2-3.17m sidewalks. Entrance Ramps "O" and "P" are three-span. (Ramp "O" Span lengths are 16.99 m, 17.22 m, 16.61 m, and Ramp "P" span lengths are 16.99 m, 17.22 m, 16.99 m) simply supported, multi-stringer composite steel bridges. Ramp width is 5.8 m. Ramp "O" carries one lane of traffic from south side of Randolph Street bridge onto south bound I-90/94 Kennedy Expressway. Ramp "P" carries one lane of traffic from north side of Randolph Street bridge onto north bound I-90/94 Kennedy Expressway.

Bench Mark: "A" Cut for baseline on North Sidewalk, back of curb, off east end of Bridge (Sta. 1+400). El. 181.555

Staging: Structure to be closed during construction.

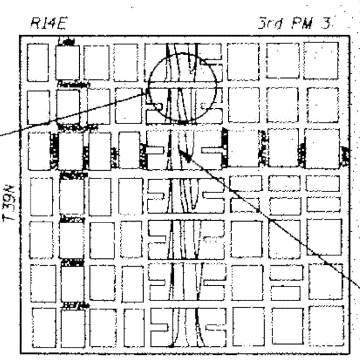
Salvage: None



STATION 01+349.960
REBUILT BY
STATE OF ILLINOIS
F.A.U. RTE. 1407
SEC. 202.23-3B-R
LOADING MS 18
STR. NO. 016-0608

NAME PLATE
Std. 515001
Clean existing name plates.
Cost included with "Name Plates"

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



Location Plan

Design Specifications

1996, A.A.S.H.T.O. and 1997 and 1998 Interims.
1995, Seismic Retrofitting Manual for Highway Bridges (FHWA-RD-94-052)

Loading MS18

Allow 2.4 kN/m² for future wearing surface

Design Stresses

New Construction

$f'_c = 24 \text{ MPa}$
 $f_y = 400 \text{ MPa}$ (Reinforcing)
 $f_y = 250 \text{ MPa}$ (M270 M Grade 250)
 $f_y = 345 \text{ MPa}$ (M270 M Grade 345)

Existing Construction

$f'_c = 5.5 \text{ MPa}$ (Substructure)
 $f'_c = 8.3 \text{ MPa}$ (Superstructure)

Seismic Data

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 2.0

* The angles shown are taken from the Plans of the Existing Structure. The Contractor must verify the angle prior to fabrication of any material.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
RANDOLPH STREET, FAU 1407 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 202.23-3B-R COOK COUNTY
STATION 1+349.960 STRUCTURE NO. 016-0608

MODEL: 24 (Sheet)
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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

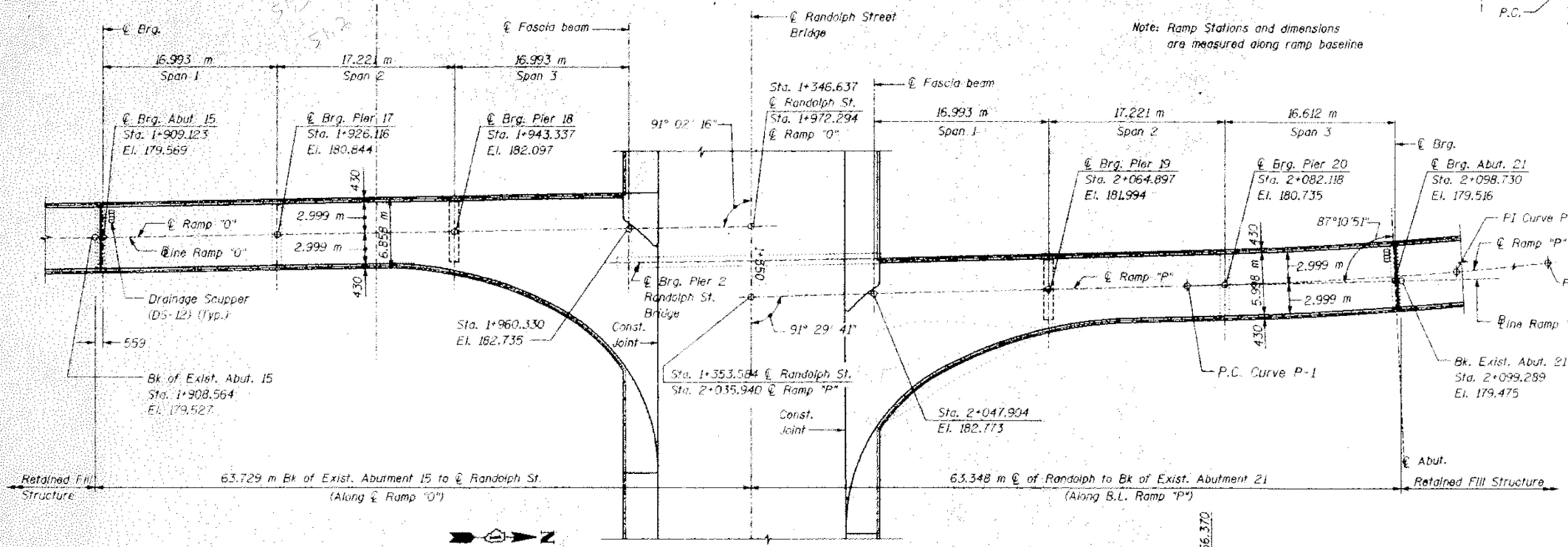
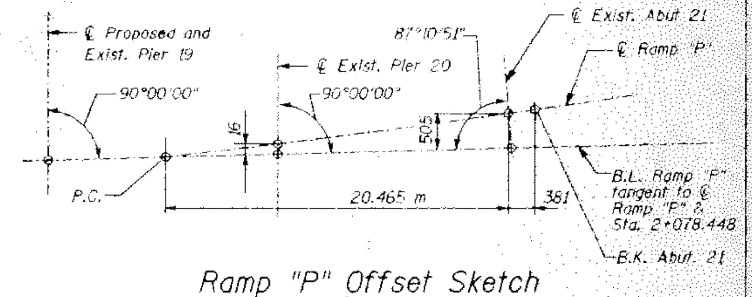
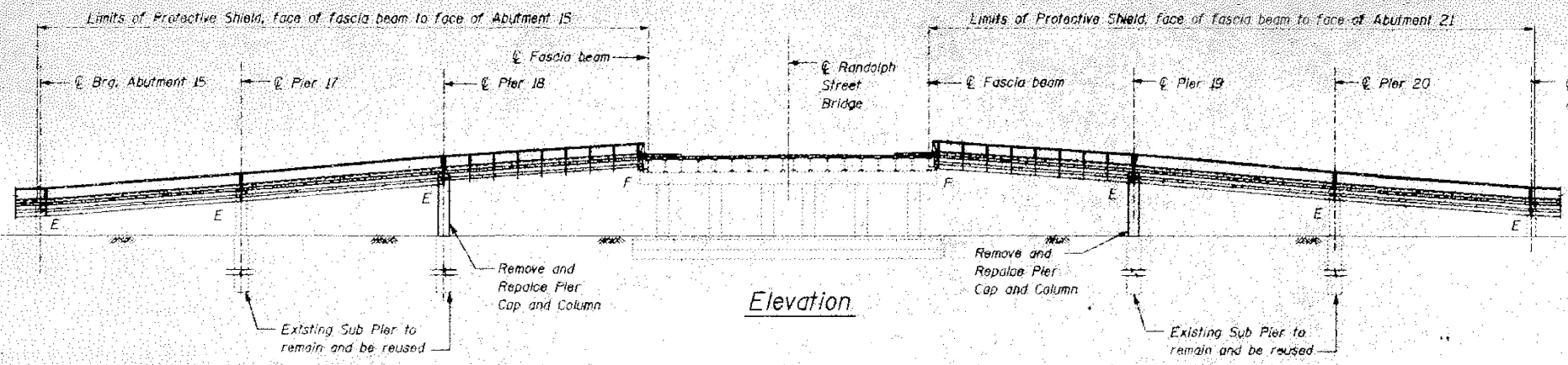
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 25: RANDOLPH ST OVER I-90/94 JFK (SN 016-0608)
EXISTING STRUCTURE DETAILS
SCALE: SHEET 001 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	114
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

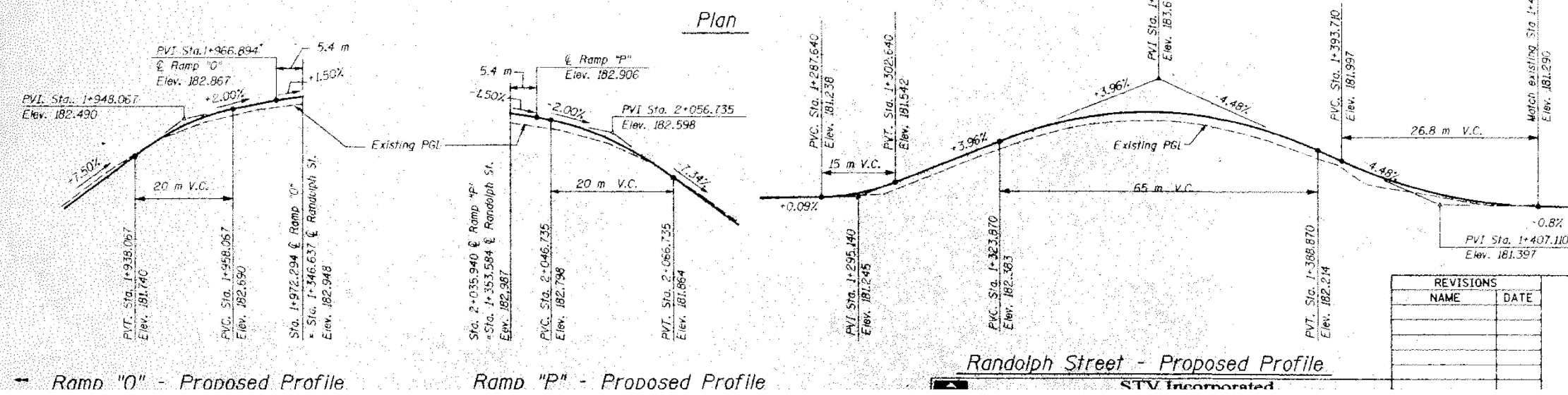
FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0202.23-38-R	COOK	220	72
STA. 1+349.960		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
52 OF 52				



Ramp "P" Curve Data
(Along Curve)

Curve P-1	
$\Delta = 07^\circ 03' 39''$	P.C. Sta. 2+076.448
$T = 25.638$ m	P.I. Sta. 2+104.087
$L = 51.272$ m	P.C.C. Sta. 2+129.660
$R = 415.557$ m	
Curve P-2	
$\Delta = 02^\circ 03' 19.41''$	P.C.C. Sta. 2+129.645
$D = 1.958090^\circ$	P.I. Sta. 2+145.645
$T = 16.000$ m	P.T. Sta. 2+161.640
$L = 31.995$ m	
$R = 891.921$ m	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN RAMPS "O" & "P"
 RANDOLPH STREET, FAU 1407 OVER
 JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
 SECTION 202.23-38-R COOK COUNTY
 STATION 1+349.960 STRUCTURE NO. 016-0608

MODEL: 25 (Sheet) FILE NAME: c:\pwworking\1167770\102925-shr\typical.dgn

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

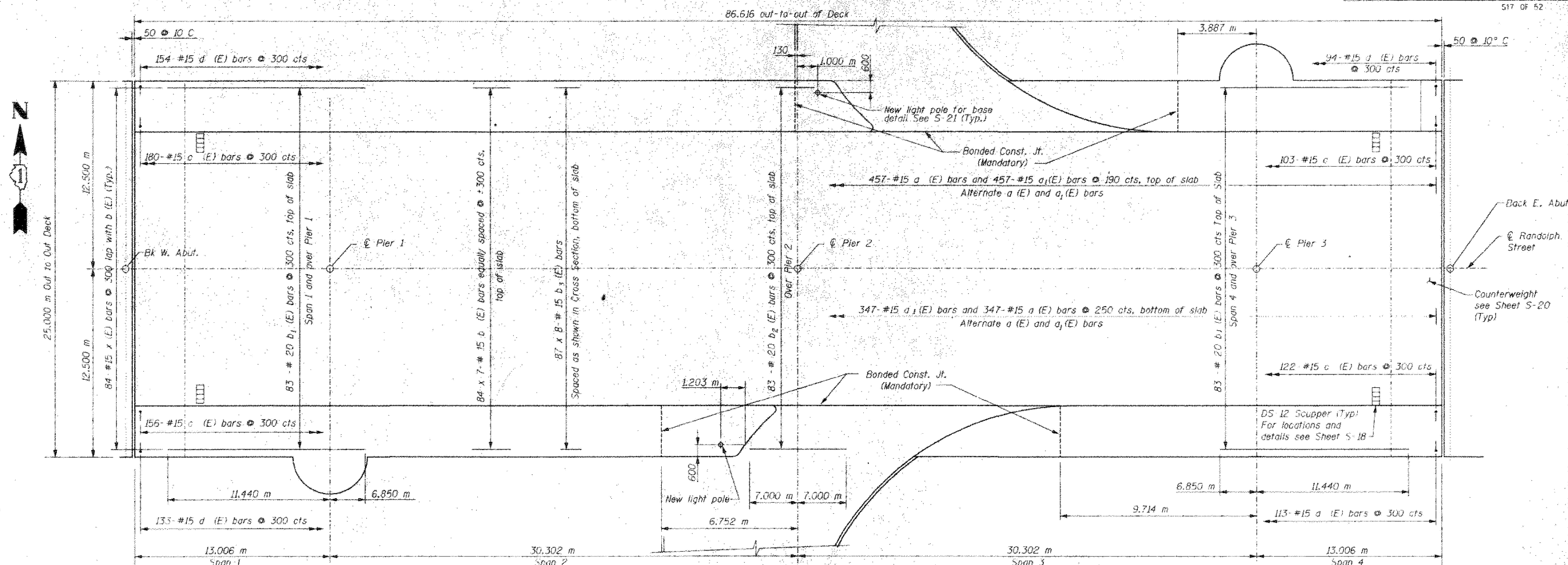
LOCATION 25: RANDOLPH ST OVER I-90/94 JFK (SN 016-0608)
 EXISTING STRUCTURE DETAILS

SCALE: SHEET 002 OF 4 SHEETS STA. TO STA.

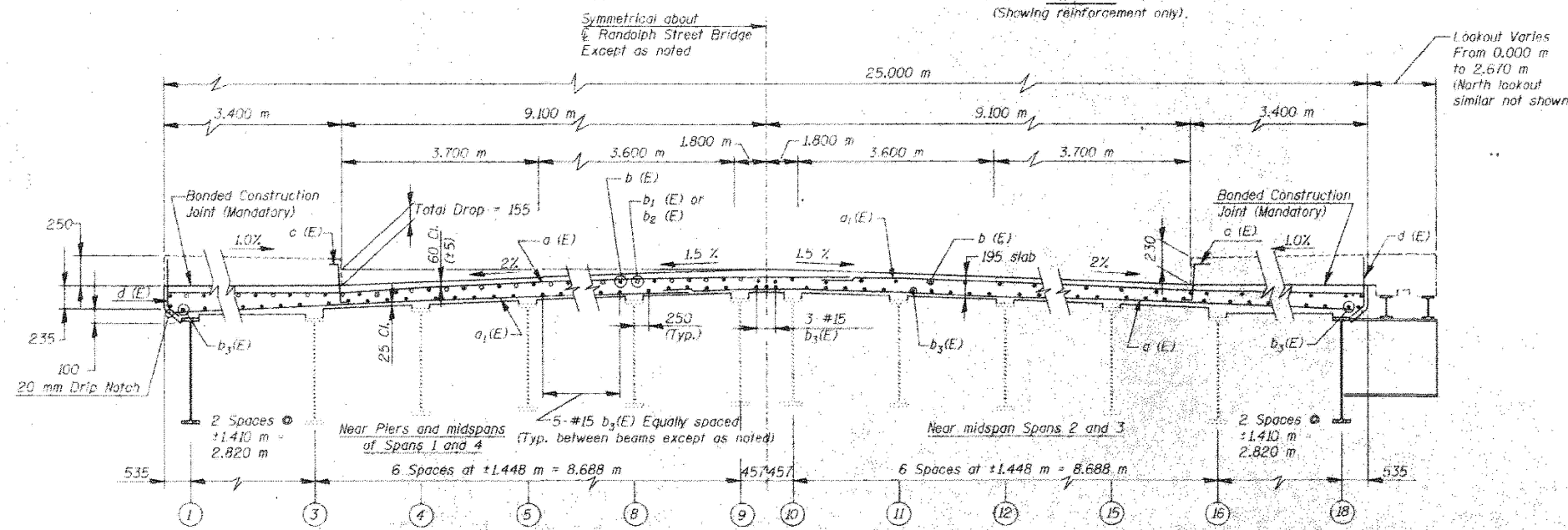
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	115
CONTRACT NO. 62X44				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	D202.23-3B-R	COOK	226	87
STA. 1+349.960		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	517 OF 52	



PLAN
(Showing reinforcement only).



TYPICAL CROSS SECTION

DECK GENERAL NOTES:

- All dimensions are in millimeters (mm) unless otherwise noted.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bars indicated thus: 1x2-#15 etc., indicates 1 line of bars with 2 lengths per line.
- Typical splice length for #15 bars to be 640 mm min. For #20 bars, 790 mm min. unless noted otherwise.
- All exposed edges shall have 20 mm chamfers unless otherwise noted.
- Work this Sheet with electrical and architectural drawings for additional embedded items (conduits, etc.).

NOTES:

- For Bill of Material, see Sheet S-20
- For sidewalk reinforcement see Sheet S-19
- For details of attaching fascia panel & railing, see architectural drawings.
- For expansion joint details see Sheet S-37
- For deck pouring sequence see S-6
- For ramp deck detail see S-22 and S-23

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE DECK PLAN AND CROSS SECTION
RANDOLPH STREET, FAU 1407 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90/94
SECTION 202.23-3B-R COOK COUNTY
STATION 1+349.960 STRUCTURE NO. 016-0608

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 25: RANDOLPH ST OVER I-90/94 JFK (SN 016-0608)
EXISTING STRUCTURE DETAILS

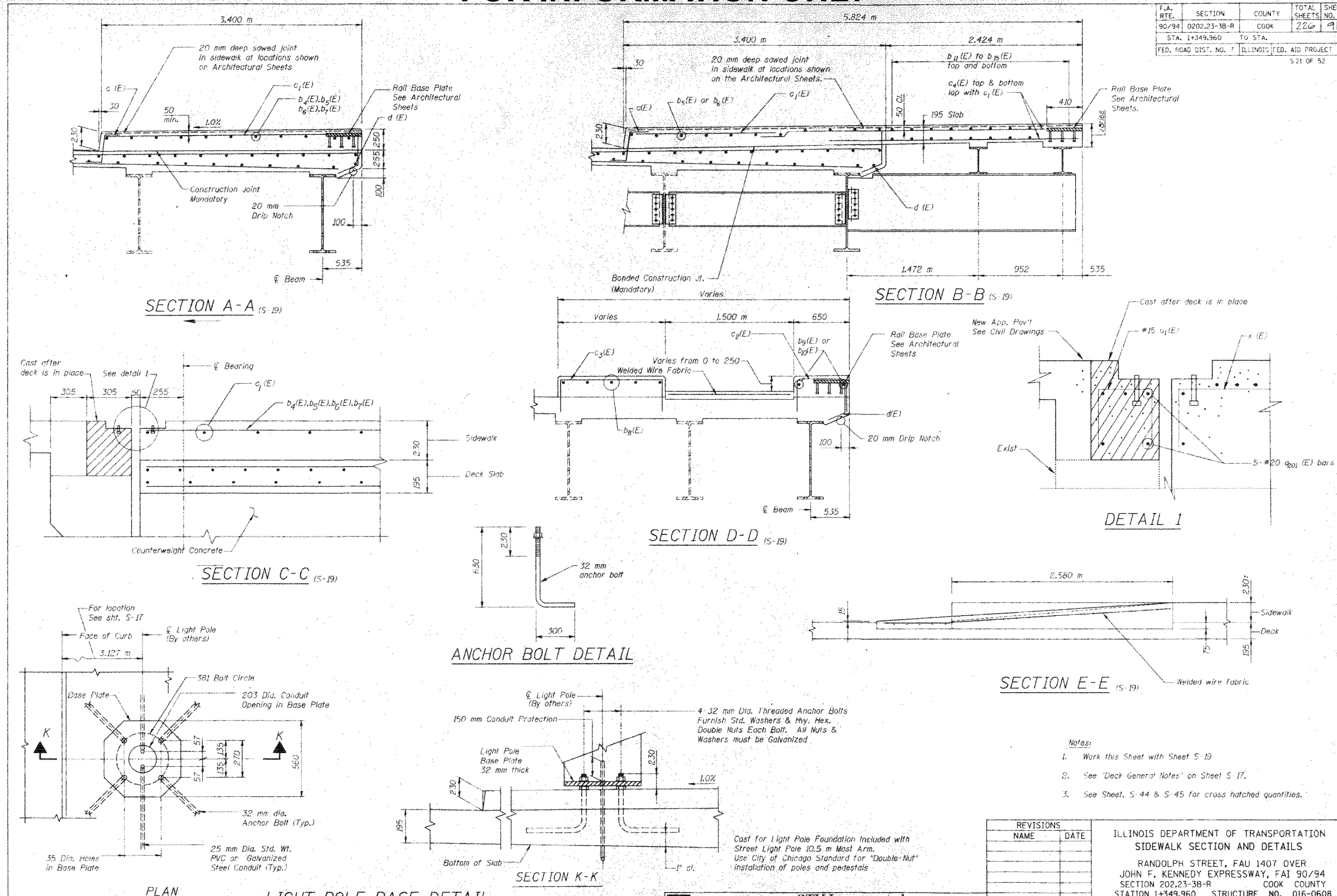
SCALE: SHEET 003 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	116
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

MODEL: 26 (Sheet) FILE NAME: c:\pwworking\idiazad1167770\102925-shr.txd

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0202.23-3B-R	COOK	226	91
STA. 1+349.960		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
S 21 OF 52				



MODEL: 27 (Sheet)
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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 25: RANDOLPH ST OVER I-90/94 JFK (SN 016-0608)
 EXISTING STRUCTURE DETAILS

SCALE: SHEET 004 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	117
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

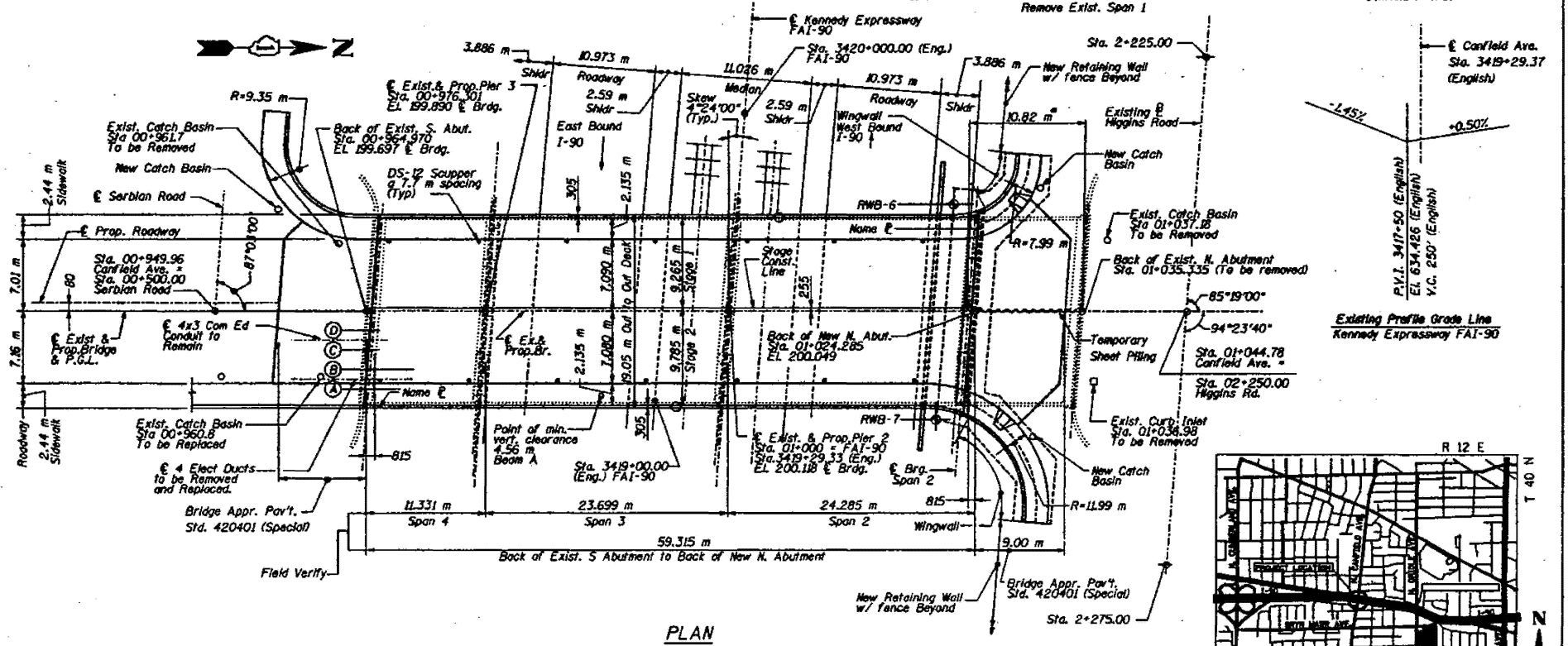
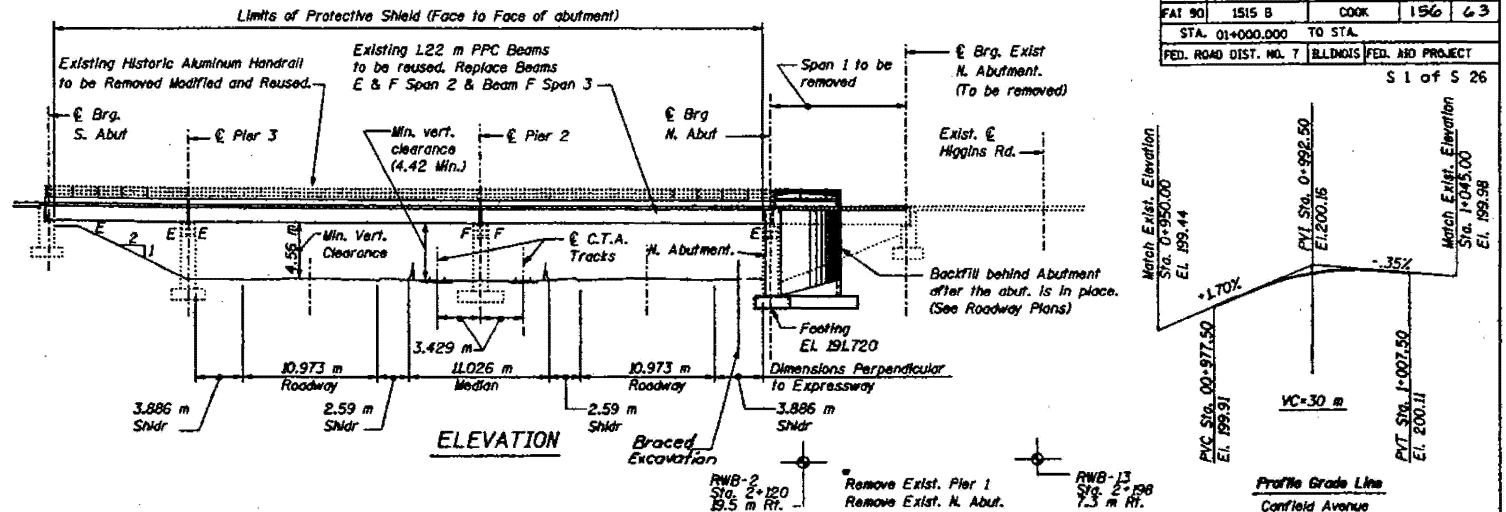
Bench Mark: Top of Chain Bolt of Fire Hydrant at South West corner of Higgins Road and Canfield Avenue.
Sta. 2+235.00, 7.7 m Rt. El. 200.151

Bridge Description

Structure 016-0707 was built in 1958 as the Canfield Avenue Grade Separation. The superstructure consists of four simple spans of precast, prestressed concrete beams with a 178 mm thick concrete structural deck. The span lengths from north to south are 10.82 m, 23.70 m, 23.70 m and 10.52 m for a total length of 68.74 m. The substructure consists of reinforced concrete stub abutments with wingwalls and reinforced concrete piers founded on reinforced concrete spread footings. The deck out-to-out dimension is 18.6 m. There are aluminum railings on either side of the deck. The sidewalks are 2.59 m wide and directly adjacent to the 13.41 m wide roadway. The deck has a centerline longitudinal joint and expansion joints are located over Piers 1 & 3. The abutment bearings are fixed, Piers 1 & 3 provide expansion for all spans, and Pier 2 provides fixity for Spans 2 and 3. The minimum vertical clearance between Interstate Route 90 and the east fascia beam of Span 3 is 4.56 m between Lanes 1 and 2 on the eastbound side. Traffic will be maintained during Rehabilitation using staged construction.

Salvage: Aluminum Handrail

All Dimensions in mm unless noted



STATION 01+000.000
REBUILT 2000 BY
STATE OF ILLINOIS
F.A.U. RTE. 2761 SEC 1515B
LOADING MS 18
STR. NO. 016-0707

NAME PLATE
Std. 515001

Note: Existing name plates are missing. New name plate is to be attached to the location of existing mounted name plate mounting plates, new nameplate size shall match existing mounting plates.

Seismic Data

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A_b) = 0.040
Site Coefficient (S) = 1.0

Design Specification

1996 AASHTO, 16th Edition, with 1997 and 1998 Interims.
1995 Seismic Retrofitting Guidelines for Highway Bridges, FHWA/RD-94/052

Loading MS18

Allow 2.4 kN/m² for future wearing surface.

Design Stresses

New Construction

Field Units
f_c = 24 MPa
f_s = 400 MPa (Reinf.)
Precast Prestressed Units
f'_c = 42 MPa
f'_{cl} = 35 MPa
f'_s = 1860 MPa (12.7 mm ϕ Low Lax Strands)
f_{sl} = 1395 MPa (12.7 mm ϕ Low Lax Strands)

Design Stresses

Existing Construction

Field Units
f_c = 9.7 MPa
f_s = 138 MPa (Reinf.)
Precast Prestressed Units
f'_c = 34.5 MPa
f'_{cl} = 16.5 MPa
f'_s = 1710 MPa (11.1 mm ϕ Stress Relieved Strands)
f_{sl} = 1207 MPa (11.1 mm ϕ Stress Relieved Strands)
Existing Soil Bearing Pressure
f_p = 190 kPa



Ralph E. Anderson

EXPIRATION DATE: 11-30-2000
DATE: 11-17-1999

STV Incorporated
Engineers/Architects/Planners/Construction Managers
10 W. Madison St. Chicago, IL 60602-4207

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN AND ELEVATION
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY MAX
DATE NOV. 1999 CHECKED BY D.B.Z./J.D.G.

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

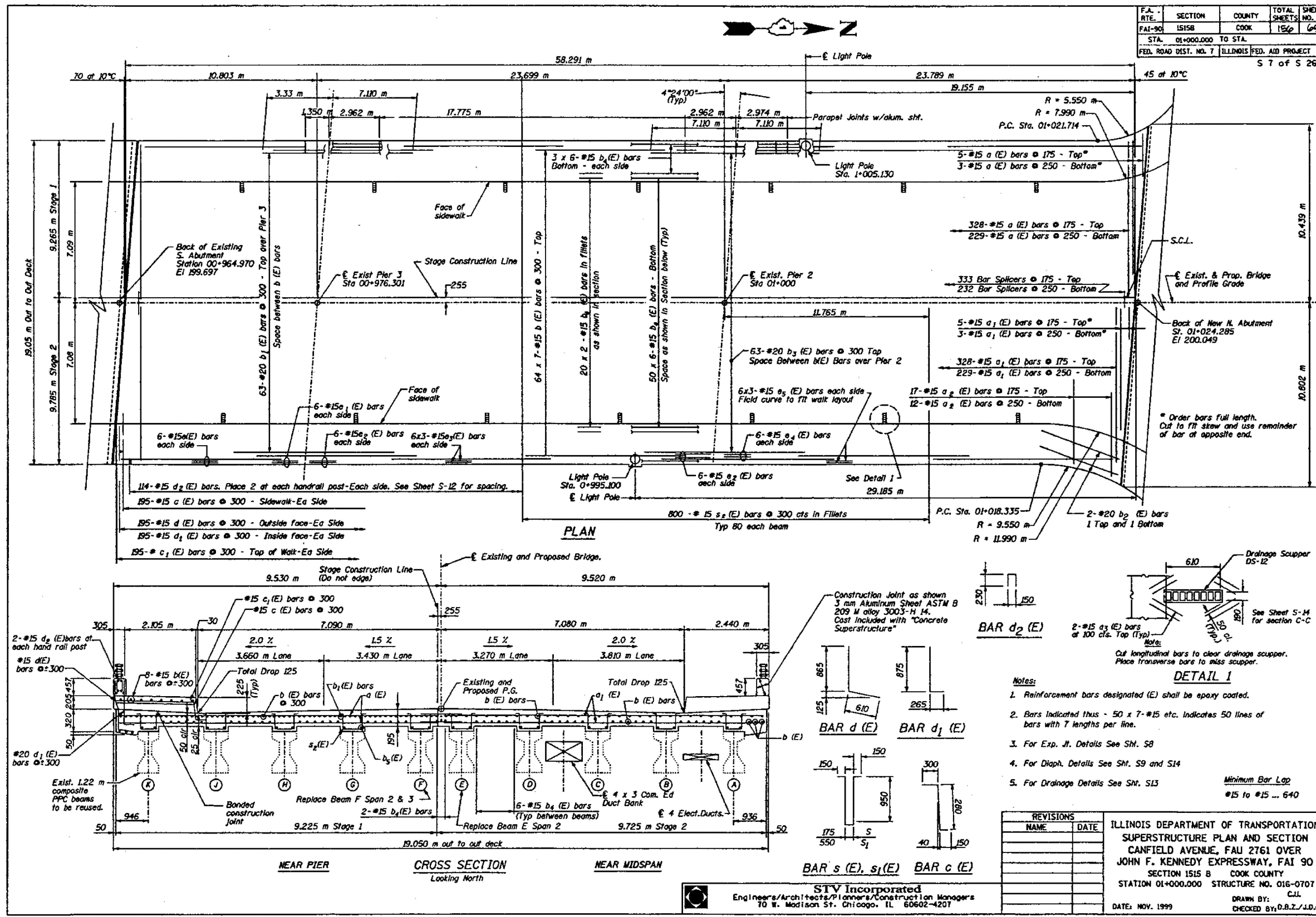
LOCATION 26: CANFIELD AVE OVER I-90 JFK (SN 016-0707)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 001 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	118
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

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FOR INFORMATION ONLY



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USER NAME	= Ivan.diaz
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	= 12/4/2025

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

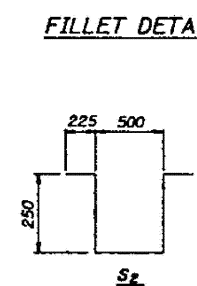
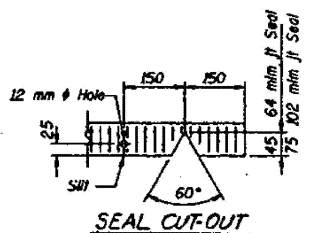
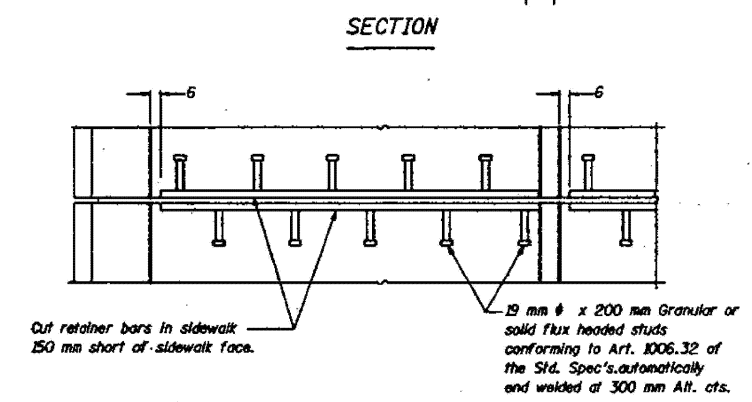
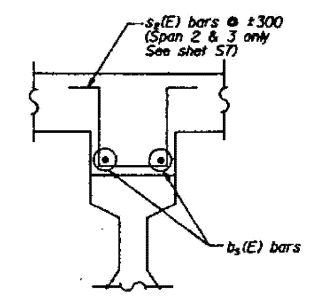
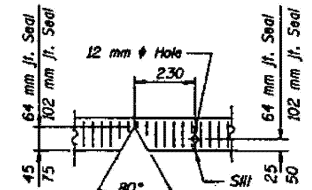
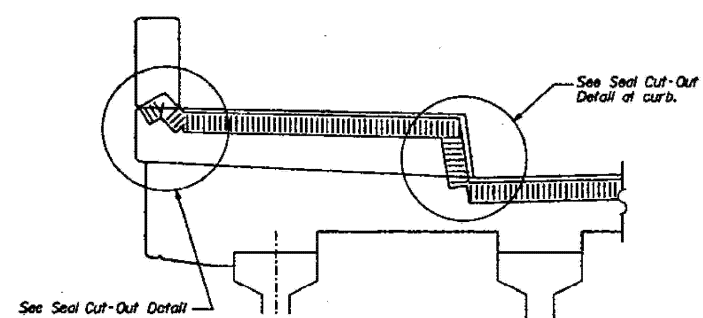
LOCATION 26: CANFIELD AVE OVER I-90 JFK (SN 016-0707)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 002 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-90	1515B	COOK	192	119
VAR.	2024-1009-BDS	COOK	CONTRACT NO. 62X44	
STATION		ILLINOIS		FED. AID PROJECT

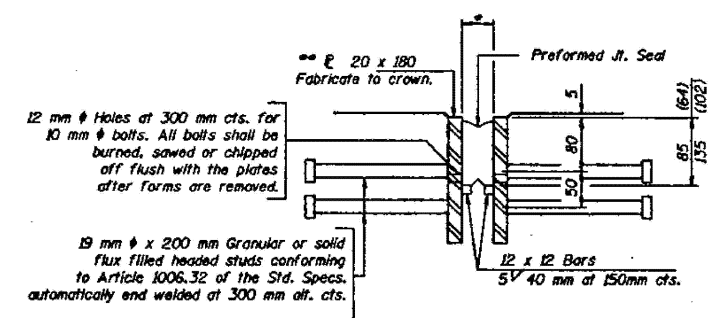
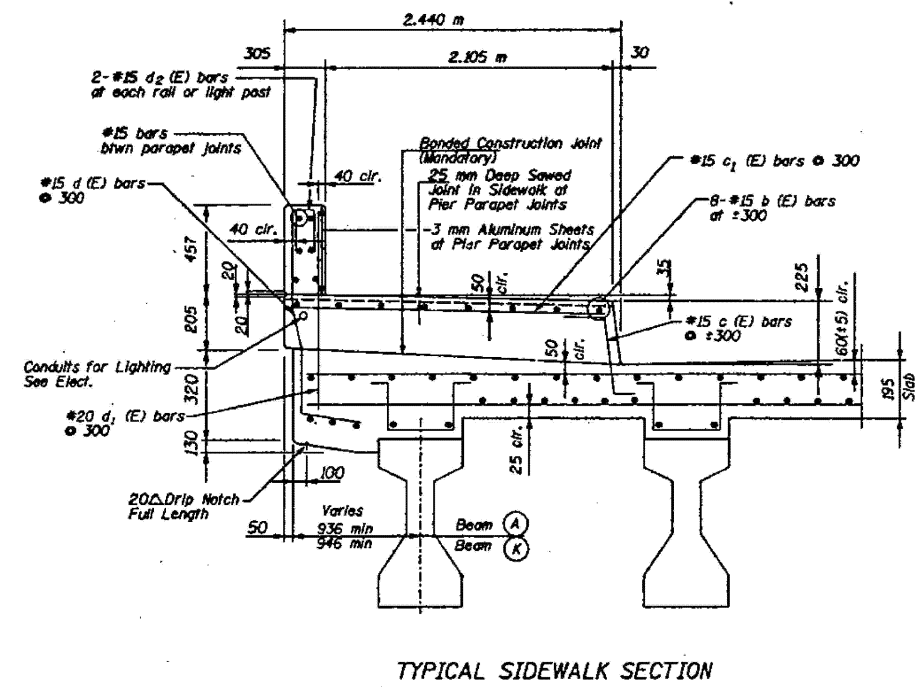
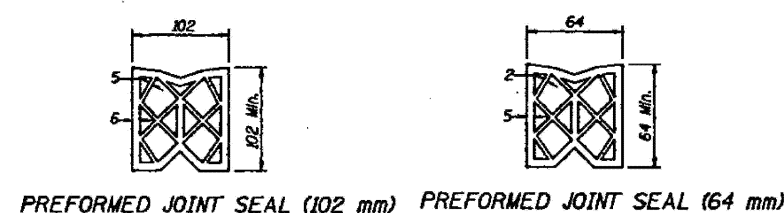
FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA190	1515 B	COOK	156	70
STA. 01+000.000 TO STA.				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
S B of S 26				



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a (E)	565	#15	9.08	---
a1(E)	565	#15	9.68	---
a2(E)	29	#15	4.00	---
b (E)	448	#15	8.95	---
b1(E)	63	#20	10.44	---
b2(E)	4	#20	5.00	---
b3(E)	63	#20	14.22	---
b4(E)	336	#15	10.34	---
b5(E)	40	#15	12.49	---
c(E)	390	#15	.73	---
c1(E)	390	#15	2.34	---
d(E)	390	#15	1.48	---
d1(E)	390	#15	1.14	---
d2(E)	228	#15	.61	---
d3(E)	6	#20	1.34	---
d4(E)	8	#20	2.60	---
e(E)	12	#15	9.38	---
e1(E)	12	#15	1.88	---
e2(E)	24	#15	2.89	---
e3(E)	36	#15	6.33	---
e4(E)	12	#15	2.90	---
e5(E)	36	#15	7.34	---
m (E)	96	#15	1.60	---
m1 (E)	32	#15	.90	---
m2 (E)	64	#15	1.19	---
m3 (E)	8	#15	.43	---
s (E)	60	#15	2.37	---
s1 (E)	100	#15	2.75	---
s2 (E)	800	#15	1.45	---
Item	Unit	Total		
Reinfa. Bars (Epoxy Coated)	kg	53991		
Concrete Superstructure	m ³	391		
Furnish and Erect Structural Steel	Kg	2120		



NOTE:

After fabrication all surfaces of the steel plates shall be given one shop coat of paint specified for structural steel. No field painting required.

* 45 mm at 10°C. (64 mm)
70 mm at 10°C. (102 mm)

** Furnish in segments of 6 m maximum length. Maximum space between installed segments shall be 5 mm. Seal space with Silicone Sealant suitable for Structural Steel.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE DETAILS
CANFIELD AVENUE, FAU 2761 OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1515 B COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-0707
DRAWN BY C.J.L.
DATE NOV. 1999 CHECKED BY DBZ/JDG

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

MODEL: 30 (Sheet)
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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 26: CANFIELD AVE OVER I-90 JFK (SN 016-0707)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 003 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	120
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

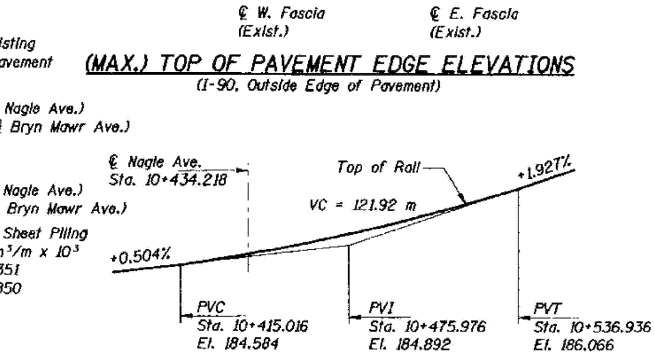
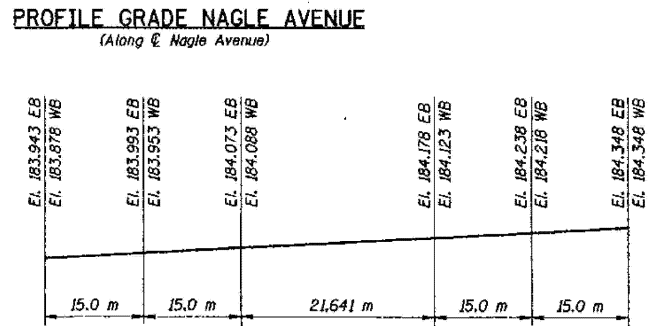
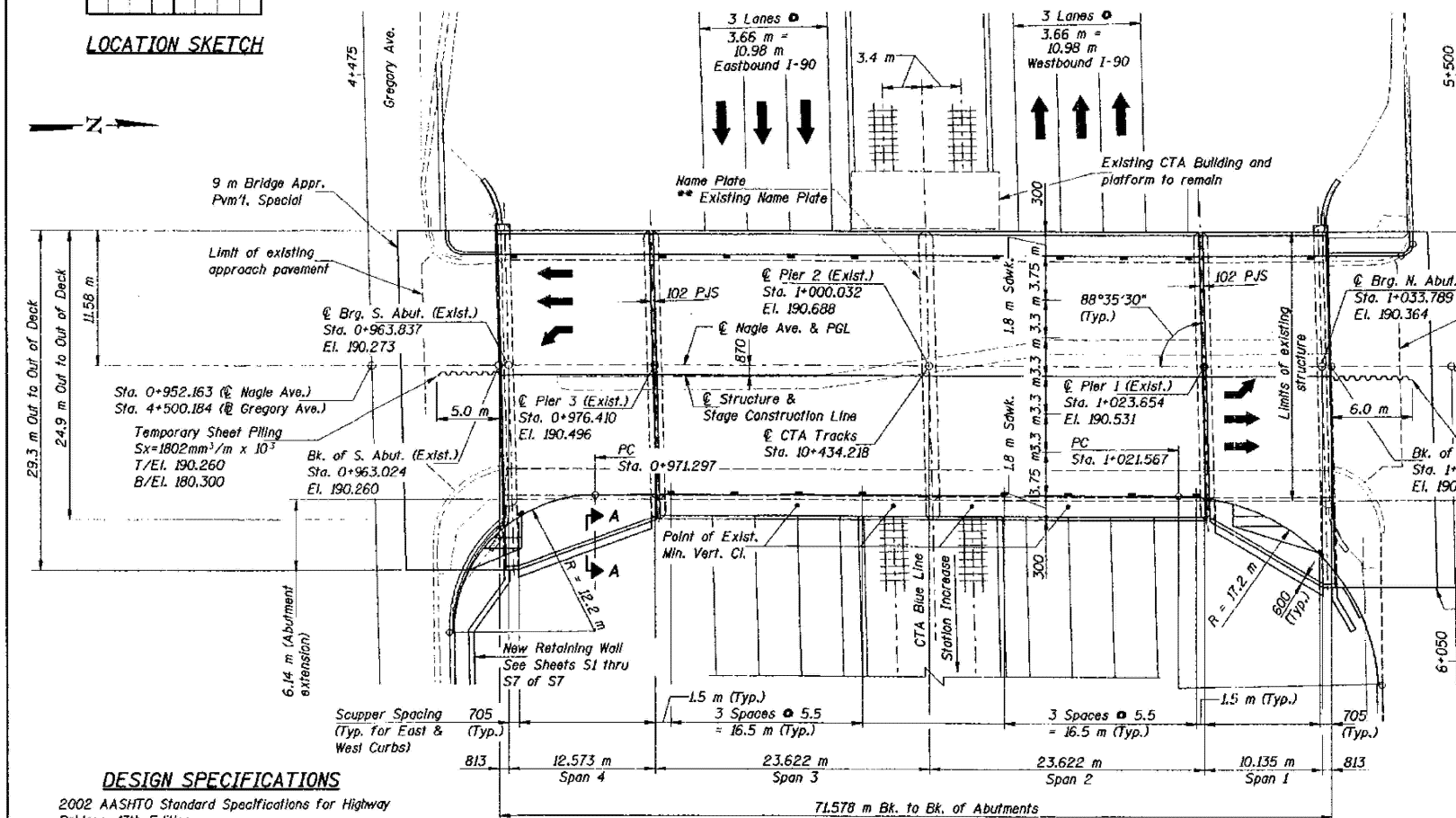
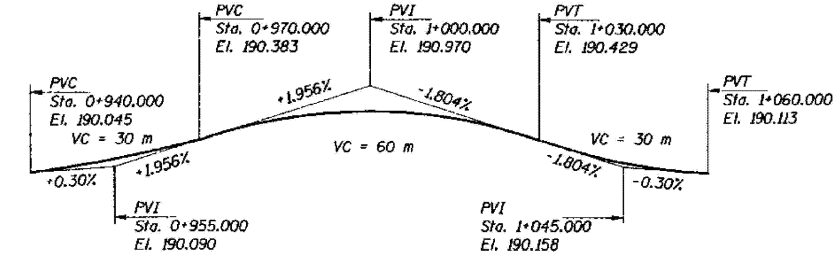
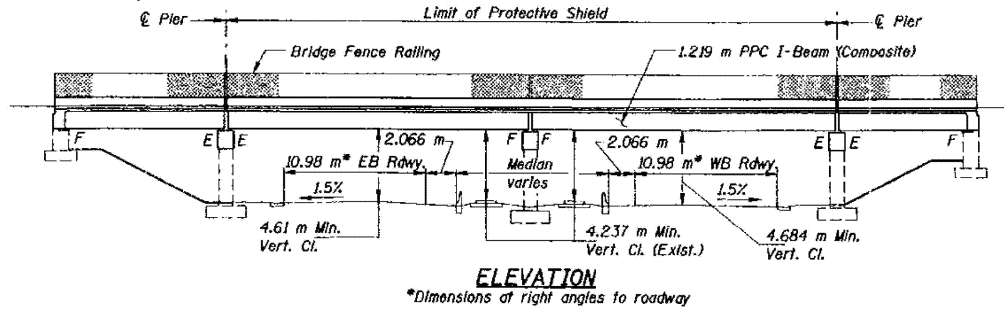
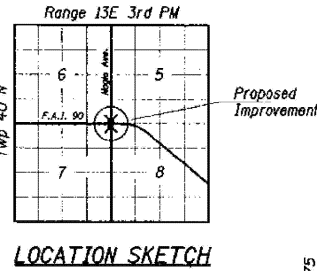
FOR INFORMATION ONLY

Bench Mark:
 TBM #187 - City of Chicago Bench Mark. Level with ground on northwest corner of Newark/Hurlbut
 8.15 m north of north R.O.W. Hurlbut, 2.555 m east of west Newark, El. 191.048

Existing Structure : S.N. 016-0708 A four simple span structure with a concrete deck supported on 1.22 m PPC I-Beams. The length back to back of abutments is approximately 71.578 m. The superstructure is supported by stub abutments and multi-column open piers on spread footings. Built as F.A. Route 173, Section 267-1314F-15D in 1958. Traffic shall be maintained during the rehabilitation of the structure by staged construction.

No Salvage

Note: All dimensions are in millimeters (mm) except as noted.



DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

LOADING MS18

Allow 2.4 kN/m² for future wearing surface.

DESIGN STRESSES

FIELD UNITS

NEW CONSTRUCTION

f'c = 24 MPa
 fy = 400 MPa (Reinf.)
 fy = 250 MPa (M 270M Gr. 250-Structural Steel)

PRECAST PRESTRESSED UNITS

f'c = 42 MPa
 f'ci = 35 MPa
 f's = 1,860 MPa (12.7 mm ϕ low lax. strands)
 f'sl = 1,395 MPa (12.7 mm ϕ low lax. strands)

SEISMIC DATA

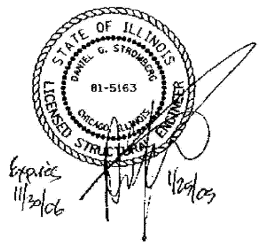
Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.04g
 Site coefficient (S) = 1.0

PLAN

STATION 0+998.813
 RE-BUILT 200 BY
 STATE OF ILLINOIS
 F.A.U. RT. 2783 SEC 1314B
 STR. NO. 016-0708 LOADING MS18

NAME PLATE

See Std. 515001
 ** The new Name Plate shall be attached to the pier next to the existing Name Plate according to Section 515 of the Standard Specifications except that the Name Plate shall be surface mounted using vandal-proof screws.



COLLINS ENGINEERS
 123 N. Wacker Dr., Suite 300
 Chicago, IL 60606
 (312) 704-9300
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 94-009993

REVISIONS	
NAME	DATE

Note:
 See Sheet S3 for Section A-A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90 (I-90)
 AT NAGLE AVENUE
 F.A.U. RTE. 2783 SEC 1314B
 COOK COUNTY STATION 04+998.813
 STRUCTURE NO. 016-0708

GENERAL PLAN AND ELEVATION

DRAWN BY KAC
 CHECKED BY LDB/DGS
 DATE: DEC. 2004

27240135

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

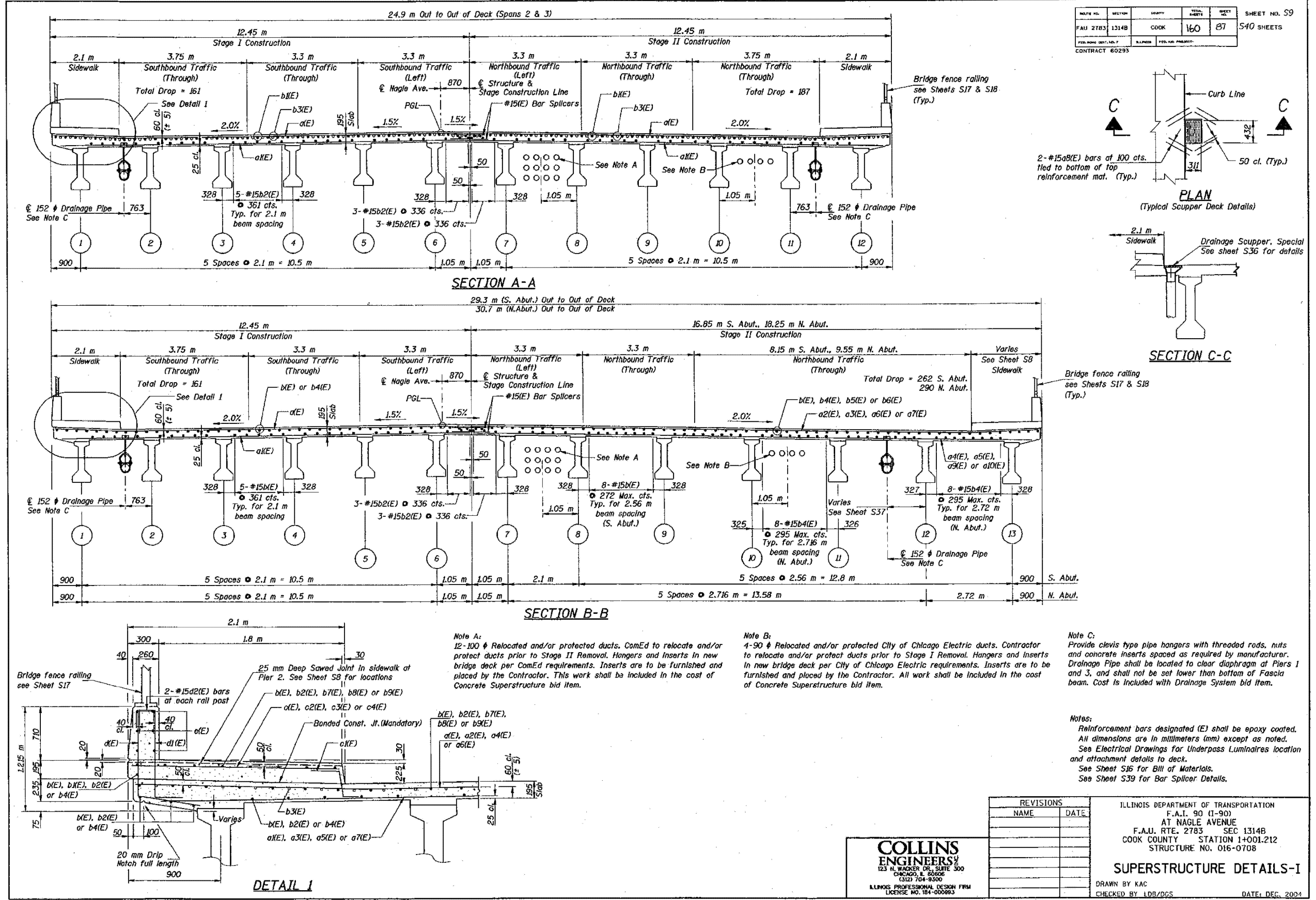
LOCATION 27: NAGLE AVE OVER I-90 JFK & CTA (SN 016-0708)
 EXISTING STRUCTURE DETAILS

SCALE: SHEET 001 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	121
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

PROJECT NO.	SECTION	DISTRICT	TOTAL SHEETS	SHEET NO.	SHEET NO. 59
FAU 2783	1314B	COOK	160	87	540 SHEETS
CONTRACT 60293					



Note A:
12-100 ϕ Relocated and/or protected ducts. ComEd to relocate and/or protect ducts prior to Stage II Removal. Hangers and inserts in new bridge deck per ComEd requirements. Inserts are to be furnished and placed by the Contractor. This work shall be included in the cost of Concrete Superstructure bid item.

Note B:
4-90 ϕ Relocated and/or protected City of Chicago Electric ducts. Contractor to relocate and/or protect ducts prior to Stage I Removal. Hangers and inserts in new bridge deck per City of Chicago Electric requirements. Inserts are to be furnished and placed by the Contractor. All work shall be included in the cost of Concrete Superstructure bid item.

Note C:
Provide clevis type pipe hangers with threaded rods, nuts and concrete inserts spaced as required by manufacturer. Drainage Pipe shall be located to clear diaphragm at Piers 1 and 3, and shall not be set lower than bottom of Fascia beam. Cost is included with Drainage System bid item.

Notes:
Reinforcement bars designated (E) shall be epoxy coated. All dimensions are in millimeters (mm) except as noted. See Electrical Drawings for Underpass Luminaire location and attachment details to deck. See Sheet S16 for Bill of Materials. See Sheet S39 for Bar Splicer Details.

REVISIONS	
NAME	DATE

COLLINS ENGINEERS
123 N. WACKER DR., SUITE 300
CHICAGO, IL 60606
(312) 704-9300
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-000893

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90 (1-90)
AT NAGLE AVENUE
F.A.U. RTE. 2783 SEC 1314B
COOK COUNTY STATION 1+001.212
STRUCTURE NO. 016-0708

SUPERSTRUCTURE DETAILS-I

DRAWN BY KAC
CHECKED BY LDB/DCS
DATE: DEC. 2004

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PLOT DATE = 12/4/2025	DATE -	REVISED -

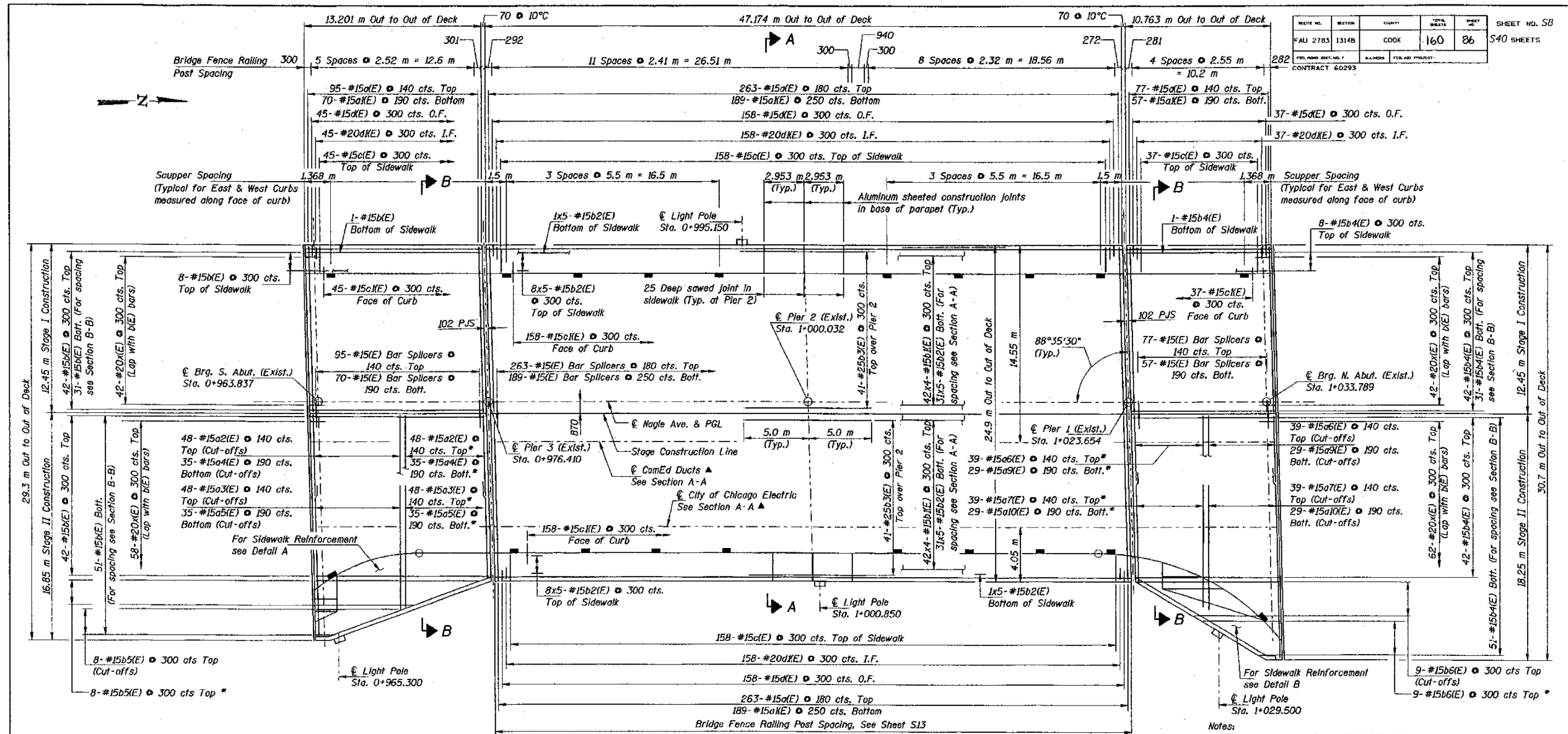
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 27: NAGLE AVE OVER I-90 JFK & CTA (SN 016-0708)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 002 OF 4 SHEETS STA. TO STA.

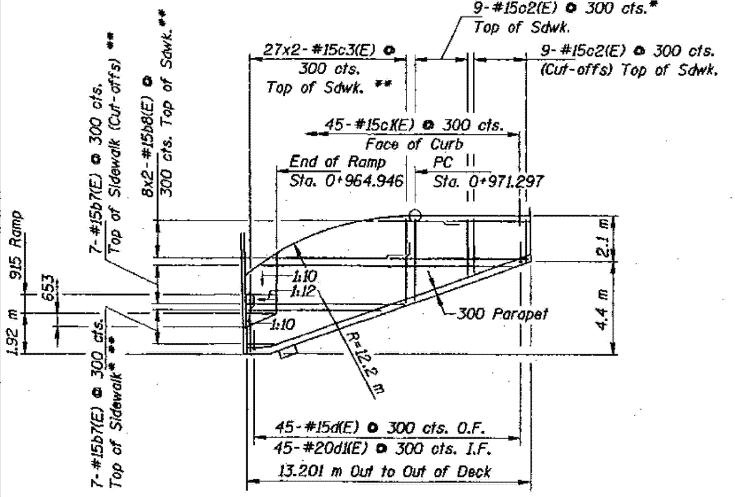
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VAR.	2024-1009-BDS	COOK	192	122
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

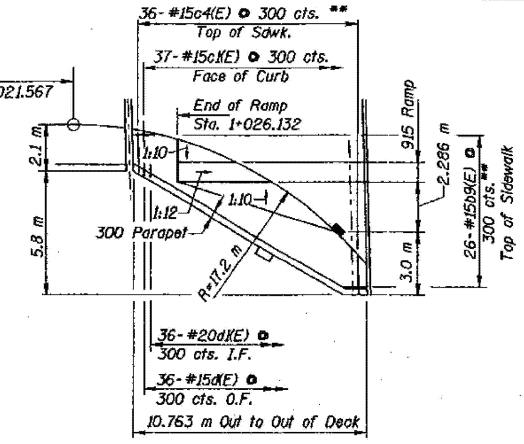


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2783	1314B	COOK	160	86
SHEET NO. 58				
CONTRACT NO. 62X44				

PLAN



DETAIL A



DETAIL B

- * Use Cut-offs where indicated
- ** Field bend or cut sidewalk reinforcement bars as required to fit sidewalk radius and sidewalk ramps. Cost included with Reinforcement Bars, Epoxy Coated.
- ▲ Locations type and size of inserts need to be in accordance with manufacturer's recommendation.

Notes:
 Dimensions are based on a PJS Joint. If the contractor elects to use the alternate strip seal, the dimensions may require adjustments as detailed on the joint base sheet.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 20x3-#15 etc. indicates 20 lines of bars with 3 lengths per line.
 All dimensions are in millimeters (mm) except as noted.
 See Sheet S9 for Sections A-A & B-B.
 See Sheet S13 for parapet reinforcement.
 See Sheets S10, S11 & S12 for Diaphragm Details.
 See Sheet S14 for Joint and Light Pole Mounting Details.
 See Sheet S16 for Bill of Material.
 See Sheets S36 & S37 for Drainage and Scupper Details.
 See Sheet S39 for Bar Splicer Details.
 See Sheet S17 & S18 for Bridge Fence Railing Details.

Minimum Bar Laps
 #15 Bars = 640
 #20 Bars = 790

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.U. 90 (I-90)
 AT NAGLE AVENUE
 F.A.U. RTE. 2783 SEC 1314B
 COOK COUNTY STATION 0+998.813
 STRUCTURE NO. 016-0708

SUPERSTRUCTURE

DRAWN BY KAC
 CHECKED BY LOR/DGS
 DATE: DEC. 2004

27240102

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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 27: NAGLE AVE OVER I-90 JFK & CTA (SN 016-0708)
 EXISTING STRUCTURE DETAILS

SCALE: SHEET 003 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	123
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

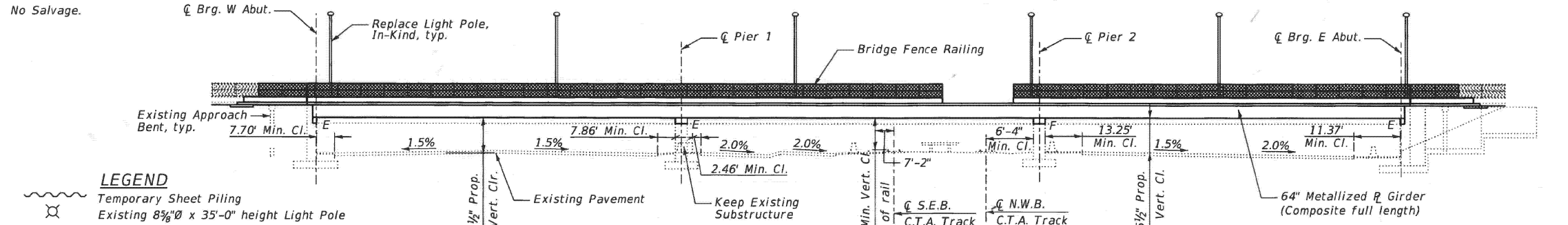
FOR INFORMATION ONLY

Bench Mark: Fire hydrant at Northwest corner of Montrose Ave and Kostner Ave. North hydrant flange, Elev. 608.37.

Existing Structure: S.N. 016-0852 Built in 1957 as F.A. Interstate Route 2 Section 263-0101.3-15D; the structure was repaired in 1997. Structure consists of a three simple-span, post-tensioned cast-in-place Tee Beam. The substructure consists of full height closed abutments, wingwalls, and column piers all founded on spread footings. The deck is 81'-0" wide composed of 8'-6" wide sidewalks with pedestrian railing and fence, two travel ways separated by a 4'-0" wide median. 474'-8 1/8" Bk. to Bk. of abutments. The bridge is load posted at 10 ton/axle, 40 ton gross.

Traffic Control: Bridge to be closed to vehicular traffic with traffic detoured during construction. Construction staged to maintain pedestrian access to CTA. Construction of Pier 2 pier cap is adjacent to the NWB CTA Blue Line track. Construction activities require a modification to the normal operation of CTA service to facilitate access to perform work on or near the CTA Right-of-Way will be allowed with CTA Track Access Occurrences. See Special Provision for CTA Flagging and Coordination. SEB 1-94, SEB Reversibles, and NWB 1-94 will remain open during construction except for night time shoulder and/or lane closures when the existing Pier 1 and 2 are being removed and Pier 1 and 2 pier caps are being constructed.

No Salvage.



- LEGEND**
- Temporary Sheet Piling
 - Existing 8 3/8" x 35'-0" height Light Pole
 - Station Direction
 - Soil Borings

SCOPE OF WORK

1. Remove Existing Superstructure.
2. Remove and Replace Abutment Backwalls.
3. Repair Existing Substructure.
4. Construct Proposed Pier Cap.
5. Construct Proposed Superstructure.

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.060g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.107g
Soil Site Class = C

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
 f'_c = 4,000 psi (Superstructure Concrete)
 f_y = 60,000 psi (Reinforcement)
 f_y = 50,000 psi (M270 Grade 50)

EXISTING UNITS

f'_c = 3,000 psi
 f_y = 40,000 psi

SCUPPER LOCATION

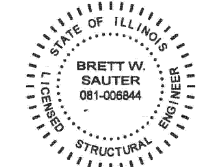
Station	Offset
20+90	30.00' LT.
21+55	30.00' RT.
22+00	30.00' LT.
22+70	30.00' RT.
22+70	30.00' RT.
22+70	30.00' RT.
23+55	30.00' LT.
23+55	30.00' RT.
25+20	30.00' LT.
25+80	30.00' RT.

Note: No free fall deck drains will be permitted in the span over the tracks or within 10'-0" of cross arms of railroad pole line.

APPROVED

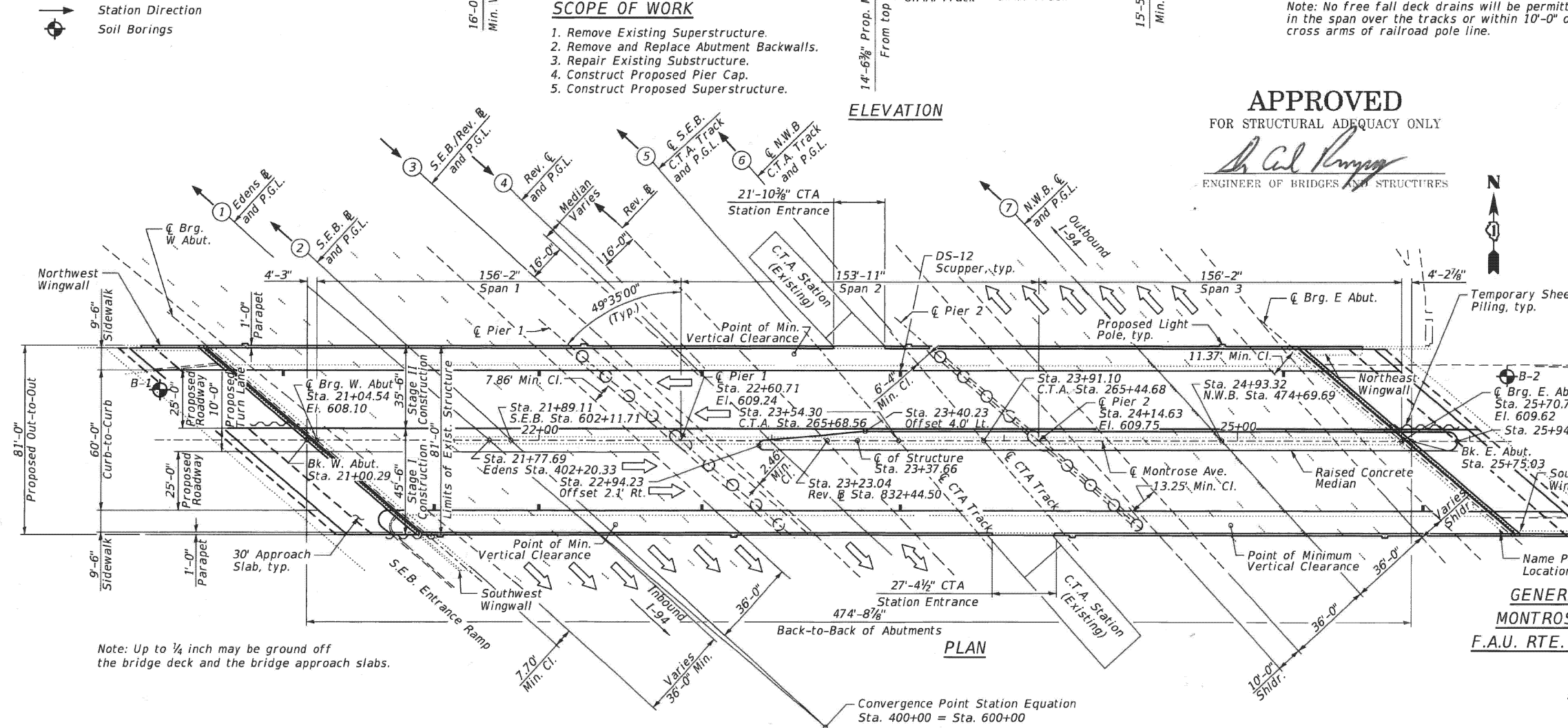
FOR STRUCTURAL ADEQUACY ONLY

Brett W. Sauter
ENGINEER OF BRIDGES AND STRUCTURES

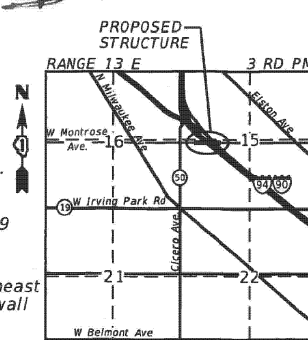


DATE: 09/19/19
SEAL EXPIRES: 11/30/2020

Brett W. Sauter



Note: Up to 1/4 inch may be ground off the bridge deck and the bridge approach slabs.



LOCATION MAP

GENERAL PLAN AND ELEVATION
MONTROSE AVENUE OVER I-94
F.A.U. RTE. 1366 - SEC. 267-0101.3-B-R
COOK COUNTY
STATION 23+37.66
S.N. 016-0852

ENGINEERING CONSULTANT	USER NAME	DESIGNED	REVIS
	Structural	MLK	-
		CHECKED	BS
		DRAWN	SBA
		CHECKED	BS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	267-0101.3-B-R	COOK	120	56

CONTRACT NO. 62F95
ILLINOIS FED. AID PROJECT NRPXG1Q993

09/19/19 3:05 07 PM

SHEET NO. S-1 OF S-48 SHEETS

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	DRAWN	-
	CHECKED	-
	DATE	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

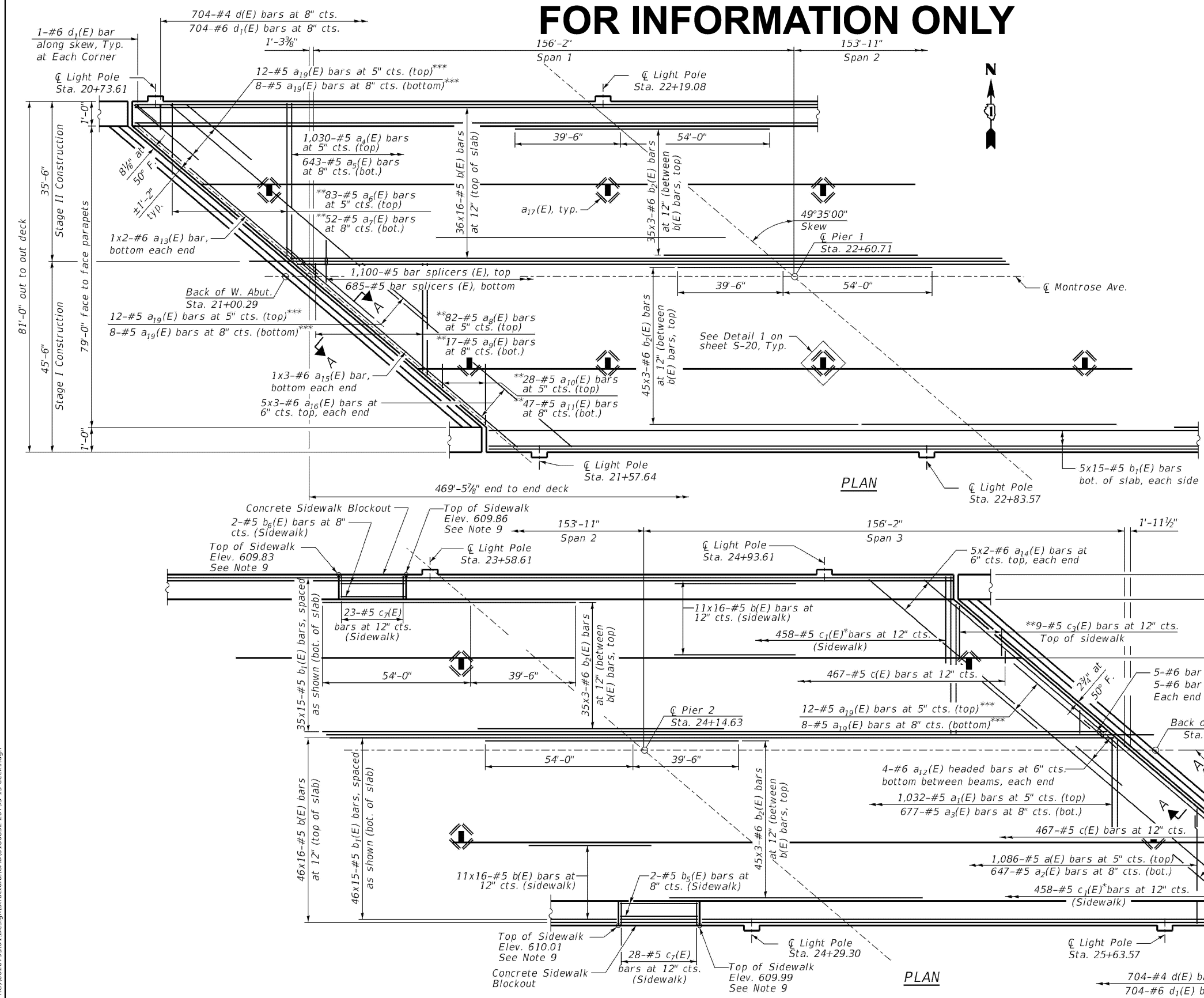
LOCATION 28: MONTROSE AVE OVER I-90/94 JFK (SN 016-0852)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 001 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	125

CONTRACT NO. 62X44
ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



- NOTES:**
- For approach slab details, see Sheet S-24 and S-25.
 - For reinforced details of light poles, see Sheet S-18.
 - Bars indicated thus:
45x3-#5 etc. indicates 45 lines of bars with 3 lengths per line.
 - See Sheet S-19 for Section A-A.
 - Parapet reinforcement not shown for clarity, see Sheet S-17 for details.
 - Minimum Lap Lengths:
3'-6" for #5 bars
4'-0" for #6 bars
 - See sheet S-20 for Superstructure Bill of Material.
 - Median not shown for clarity. For median dimensions and details see Sheet S-16.
 - Cast-in-place sidewalk at CTA Station Entrance shall be graded up or down to match existing station platform elevations. ADA criteria shall be maintained in areas where grading modifications are performed. Contractor to field verify elevations.
 - Dimensions are based on a Rolled Rail Strip Seal Joint. If the contractor elects to use the Welded Roll Strip Seal Joint, bridge deck dimensions may require adjustments.
 - Dimensions are based on a Modular Expansion Joint with dimensions as shown on S-28. If the contractor elects to use dimensions different than shown on plans, bridge deck dimensions may require adjustments.
 - For Concrete Sidewalk Blockout Detail, see sheet S-20.

*Cut to fit at CTA Entrance
 **Order $a_6(E)$, $a_7(E)$, $a_8(E)$, $a_9(E)$, $a_{10}(E)$, $a_{11}(E)$, $c_2(E)$, and $c_3(E)$ bars full length. Cut to fit skew and use remainder of bars on other end of the same side. See Sheet S-16 for cutting diagram.
 ***Measured at Rt. L's

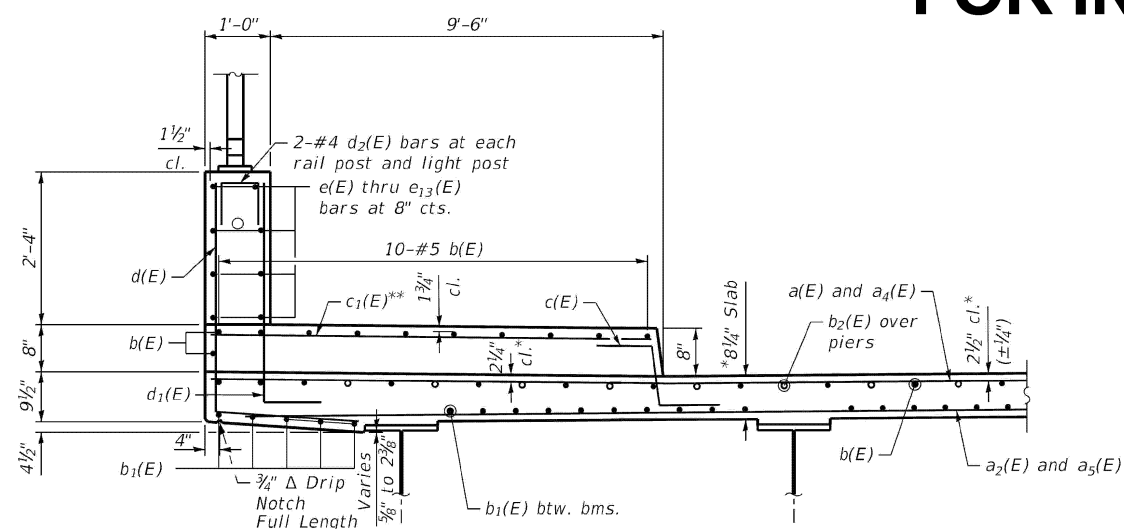
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	PLOT SCALE = 0:2.0000 1" = 1/2"	DRAWN - SBA	REVISED -			SHEET NO. = S-15 OF S-48 SHEETS	CONTRACT NO. 62F95			
PLOT DATE = 8/15/2019	CHECKED - BS	REVISED -				ILLINOIS FED. AID PROJECT NHPX-XG1Q(992)				

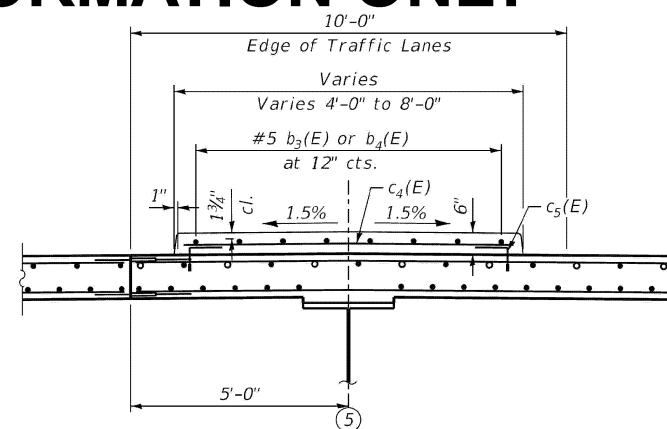
USER NAME = ivan.diaz	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 28: MONTROSE AVE OVER I-90/94 JFK (SN 016-0852) EXISTING STRUCTURE DETAILS	F.A. RTE. =	SECTION = 2024-1009-BDS	COUNTY = COOK	TOTAL SHEETS = 192	SHEET NO. = 126	
PLOT DATE = 12/4/2025	DATE -	REVISED -			SCALE: SHEET 002 OF 5 SHEETS STA. TO STA.	CONTRACT NO. 62X44				
					ILLINOIS FED. AID PROJECT					

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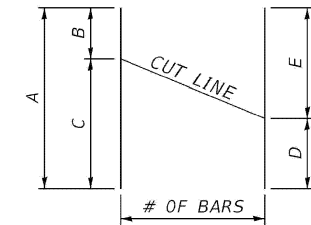
FOR INFORMATION ONLY



SECTION THRU SIDEWALK *Prior to Grinding
**Cut to fit at CTA Entrance

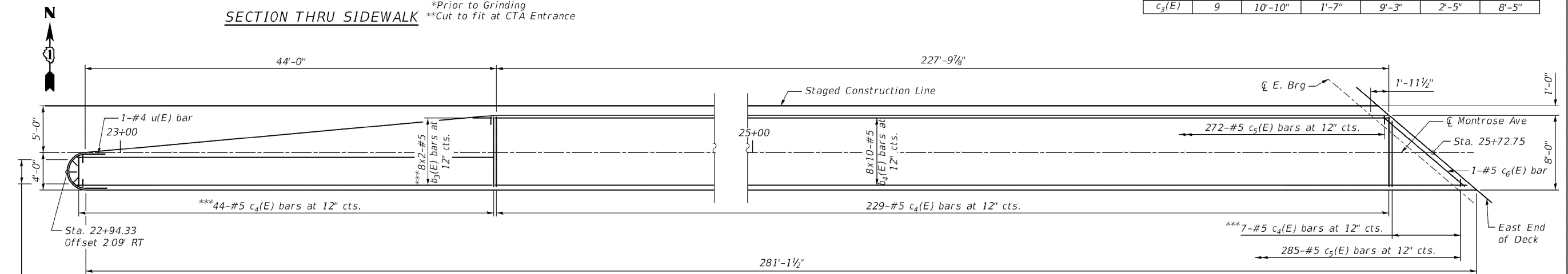


SECTION THRU MEDIAN



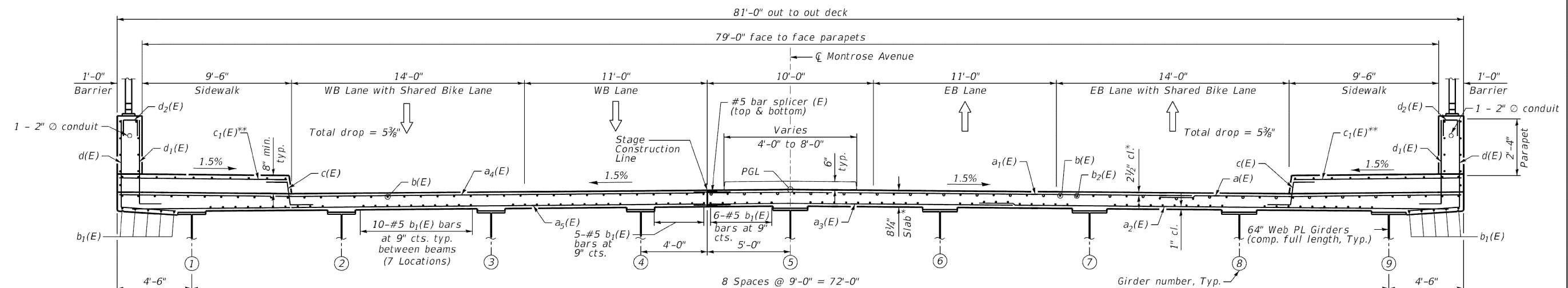
FIELD CUTTING DIAGRAM
ORDER BARS FULL LENGTH. CUT TO FIT AS SHOWN AND PLACE WHERE CALLED OUT IN DETAILS

FIELD CUTTING DIAGRAM TABLE						
BAR	NO.	A	B	C	D	E
a ₆ (E)	83	39'-8"	5'-10"	33'-10"	4'-9"	34'-11"
a ₇ (E)	52	40'-0"	6'-2"	33'-10"	4'-11"	35'-0"
a ₈ (E)	82	37'-4"	4'-4"	33'-0"	4'-3"	33'-1"
a ₉ (E)	17	20'-8"	5'-10"	14'-10"	5'-9"	14'-11"
a ₁₀ (E)	28	19'-3"	4'-6"	14'-9"	5'-2"	14'-1"
a ₁₁ (E)	47	38'-7"	5'-10"	32'-9"	6'-8"	31'-11"
c ₂ (E)	9	11'-9"	3'-4"	8'-5"	7'-2"	1'-7"
c ₃ (E)	9	10'-10"	1'-7"	9'-3"	2'-5"	8'-5"



MEDIAN PLAN

***Order b₃(E) and c₄(E) bars full length. Cut to fit skew and discard remaining rebar.



CROSS SECTION (Looking East)

*Prior to Grinding
**Cut to fit at CTA Entrance

NOTE:
1. Median to be poured following Stage 2 deck pour and not before.

FILE NAME: \\PR010020795-011\Design\Structural\CAD\0160852-20795-16-deck2.dgn

ENGINEERING CONSULTANT
CorbaGroup
8/15/2019 1:52:06 PM

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PLOT DATE = 8/15/2019	DRAWN - SBA	REVISIONS
	CHECKED - BS	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN AND CROSS SECTION 2
STRUCTURE NO. 016-0852

SHEET NO. S-16 OF S-48 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	267-0101.3-B-R	COOK	120	71
CONTRACT NO. 62F95				

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PLOT DATE = 12/4/2025	DATE -	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

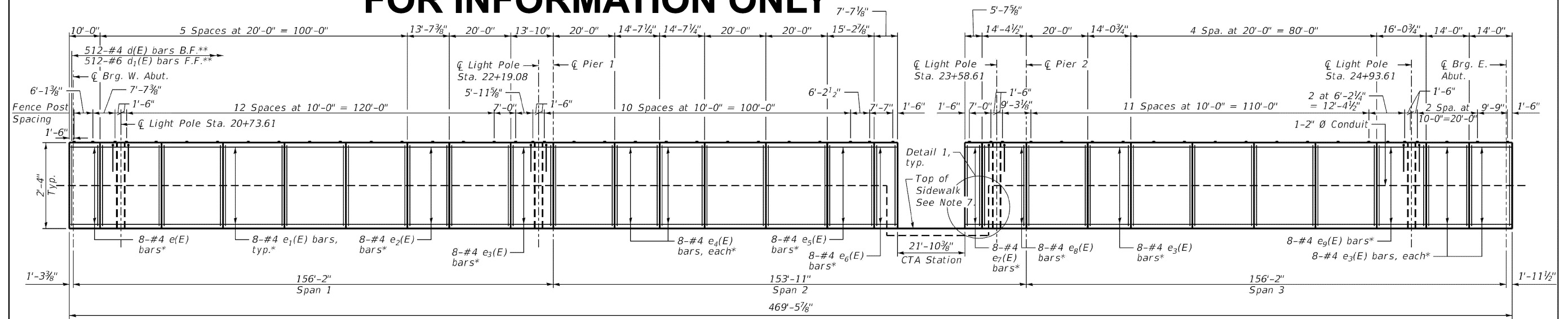
LOCATION 28: MONTROSE AVE OVER I-90/94 JFK (SN 016-0852)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 003 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	127
CONTRACT NO. 62X44				

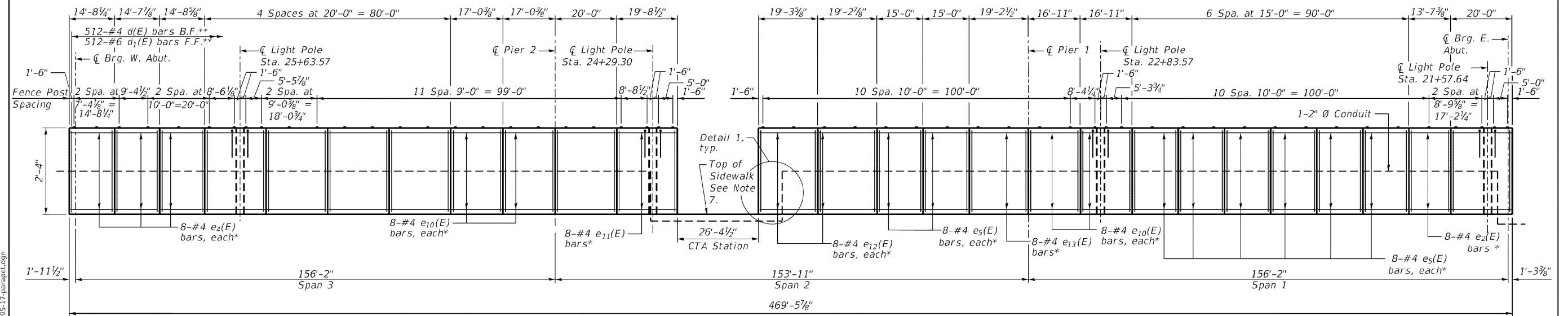
ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



INSIDE ELEVATION OF NORTH PARAPET
(Looking North)

*See Section thru Parapet on Sheet S-16 for spacing.
**See Sheet S-15 for spacing of d(E) and d₁(E) bars.
Bars are included with Superstructure.



INSIDE ELEVATION OF SOUTH PARAPET
(Looking South)

NOTES:

- For bar diagrams and Bill of Material, see Sheet S-20.
- For section through parapet, see Sheet S-16.
- All edges shall be chamfered 3/4".
- For Bridge Fence Railing, see Sheet S-26.
- See Sheets S-24 and S-25 for approach slab parapet details.
- CONTRACTOR to provide expansion/deflection conduit fitting at all structural expansion joints. See lighting plans for expansion/deflection fitting installation details.
- For Top of Sidewalk elevations see Sheet S-15.

ENGINEERING CONSULTANT
CiorbaGroup
8125 W. Higgins Road, Suite 600 | Chicago, IL 60631
P 773.775.4209 | www.ciorbainc.com

USER NAME = kcineros	DESIGNED - MLK	REVISIONS
PLOT SCALE = 0:2.0000 1" = 10'-0"	CHECKED - BS	REVISIONS
PLOT DATE = 8/15/2019	DRAWN - SBA	REVISIONS
	CHECKED - BS	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET ELEVATIONS
STRUCTURE NO. 016-0852

SHEET NO. S-17 OF S-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	267-0101.3-B-R	COOK	120	72
CONTRACT NO. 62F95				
ILLINOIS FED. AID PROJECT NHPX-XG1Q(992)				

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PLOT DATE = 12/4/2025	DATE -	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

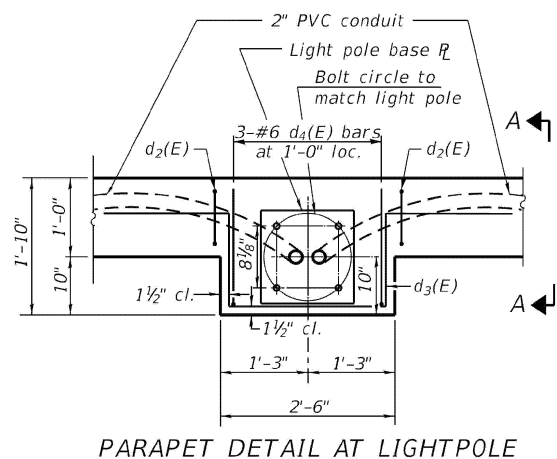
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EXISTING STRUCTURE DETAILS

SCALE: SHEET 004 OF 5 SHEETS STA. TO STA.

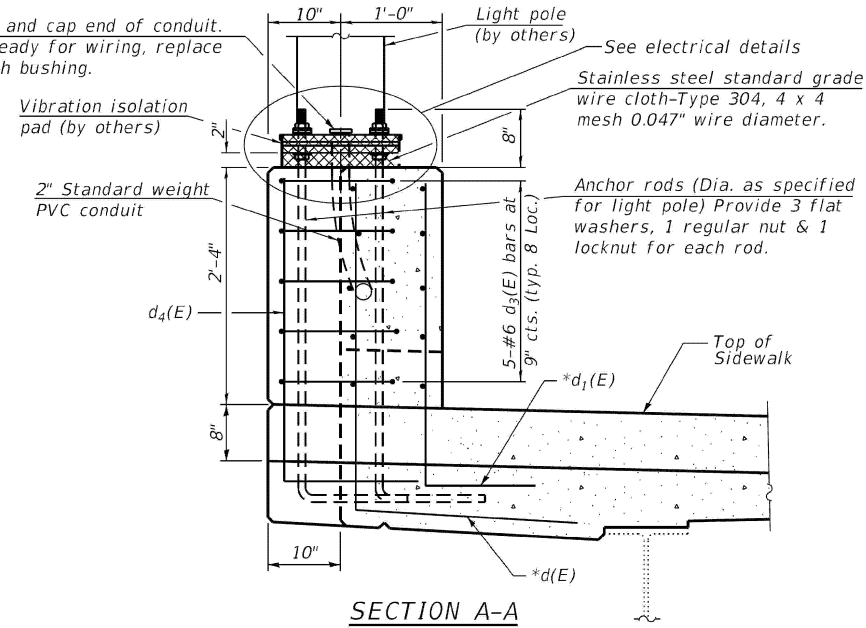
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VAR.	2024-1009-BDS	COOK	192	128
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

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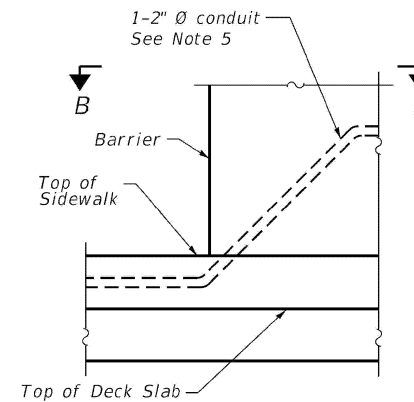


PARAPET DETAIL AT LIGHTPOLE



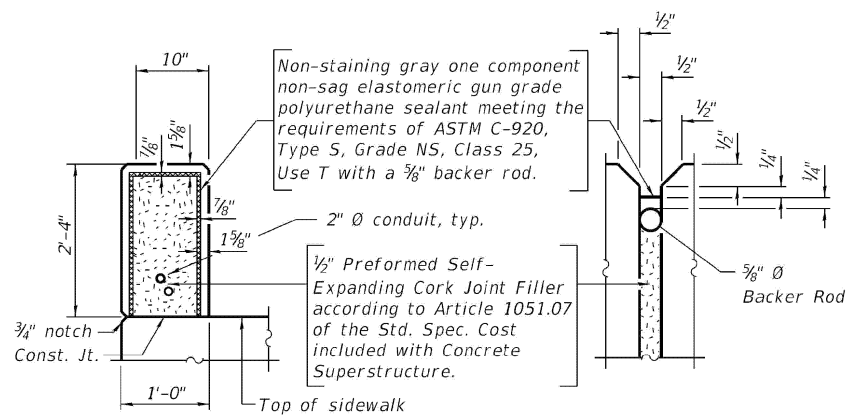
SECTION A-A

* See Sheet S-15 for spacing of d(E) and d₁(E) bars. Bars are included with Superstructure.

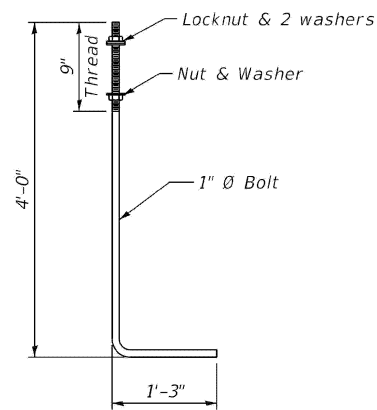


DETAIL 1

Conduits shall be bent to avoid Concrete Sidewalk Blockout at CTA Station Entrance.

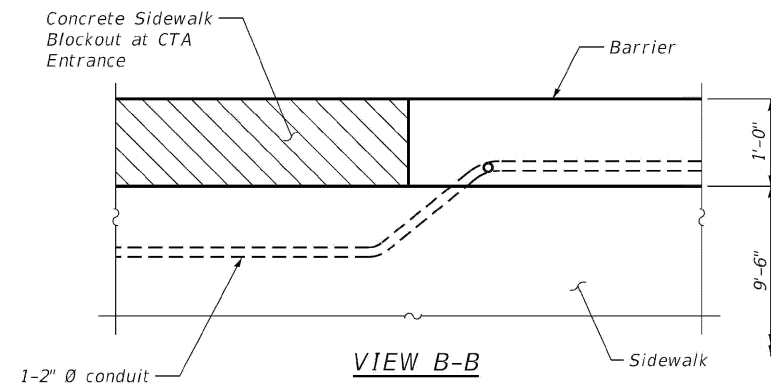


PARAPET JOINT DETAILS



ANCHOR ROD

Cost of anchor rods is included with Concrete Superstructure. (ASTM F 1554 Grade 105) Full length hot dipped galvanized



VIEW B-B

NOTES:

1. For bar diagrams, concrete sidewalk blockout, and Bill of Materials, see Sheet S-20.
2. All edges shall be chamfered 3/4".
3. For Bridge Fence Railing, see sheet S-26.
4. For post spacing, see sheet S-17.
5. Conduit bends shall be in accordance with the National Electrical Code Requirements.

FILE NAME: \\PRON0020795-011\Design\Structural\CAD\0160852-20795-18-parapet.dgn

ENGINEERING CONSULTANT

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PLOT DATE = 8/15/2019	DRAWN - SBA	REVISED -
	CHECKED - BS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARAPET DETAILS
STRUCTURE NO. 016-0852**

SHEET NO. S-18 OF S-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	267-0101.3-B-R	COOK	120	73
CONTRACT NO. 62F95				
ILLINOIS FED. AID PROJECT NHPX-XG1Q1992				

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USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 28: MONTROSE AVE OVER I-90/94 JFK (SN 016-0852)
EXISTING STRUCTURE DETAILS**

SCALE: SHEET 005 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2024-1009-BDS	COOK	192	129
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1212.2 B	COOK	66	27
STA. 0+945.000 TO STA. 1+081.000		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		S1 of 522		

Bench Mark: BM #1-Fire hydrant at northeast end of bridge at Ainslie Street, Sta. 1+060.955, 6.43 m Rt. Elevation 187.008

Salvage: None

Bridge Description

The existing and proposed structure number is 016-1105. The existing structure was built in 1958 as West Ainslie Street Grade Separation. The superstructure consists of two simple span and spans and two continuous spans of rolled steel girders with a 178 mm thick concrete deck and a 57 mm bituminous concrete wearing surface. The span lengths from east to west are 12.8 m, 31.4 m, 31.7 m and 14.4 m for a total length of 90.3 m. On Spans 2,3 and 4 the girder spacing is 2.29 m except between the center girders which are 1.22 m apart. Girder spacing on Span 1 varies from 2.6 m at the east end of the span to 1.9 m at the west end of the span. The girders in Span 1 are skewed & flared to accommodate a curve in the roadway. The substructure consists of two reinforced concrete stub abutments with wing walls and three reinforced concrete piers. All elements are founded on reinforced concrete spread footings. The deck out-to-out dimension is 16.2 m and varies. The face-to-face dimension is 15.54 m. The sidewalks are directly adjacent to the 10.97 m wide roadway, which consists of one 5.49 m wide traffic lane in each direction. The bridge will be closed and traffic detoured during construction. The "as-built" minimum vertical clearance between the JFK Expressway and the south fascia of Span 3 is 4.594 m between Lanes 2 and 3 on the eastbound side.

All Dimensions are in millimeters (mm) unless noted.

STATION 1+011.484
REBUILT 200 BY
STATE OF ILLINOIS
SECTION 1212.2 B
LOADING MS 18
STR. NO. 016-1105

NAME PLATE
Std. 515001

Note:
The existing name plate shall be cleaned and attached adjacent to the new plate. Cost is included with "name plates"

Design Specification

1996 AASHTO, 16th Edition, with 1997 and 1998 Interims.
1995 Seismic Retrofitting Guidelines for Highway Bridges, FHWA/RD-94/052

Design Stresses

New Construction

Field Units
f'c=24 MPa
fy=400 MPa (Reinf.)
fy=345 MPa (Struct. Steel M270M Gr. 345)
fy=250 MPa (Struct. Steel M270M Gr. 250)

Existing Construction

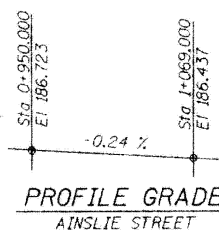
Field Units
fc=9.7 MPa
fs=138 MPa (Reinf.)

Seismic Data

Seismic Perfor. Category (SPC)=A
Bedrock Acoel. Coeff. (A)=0.040g
Site Coefficient (S)=1.2

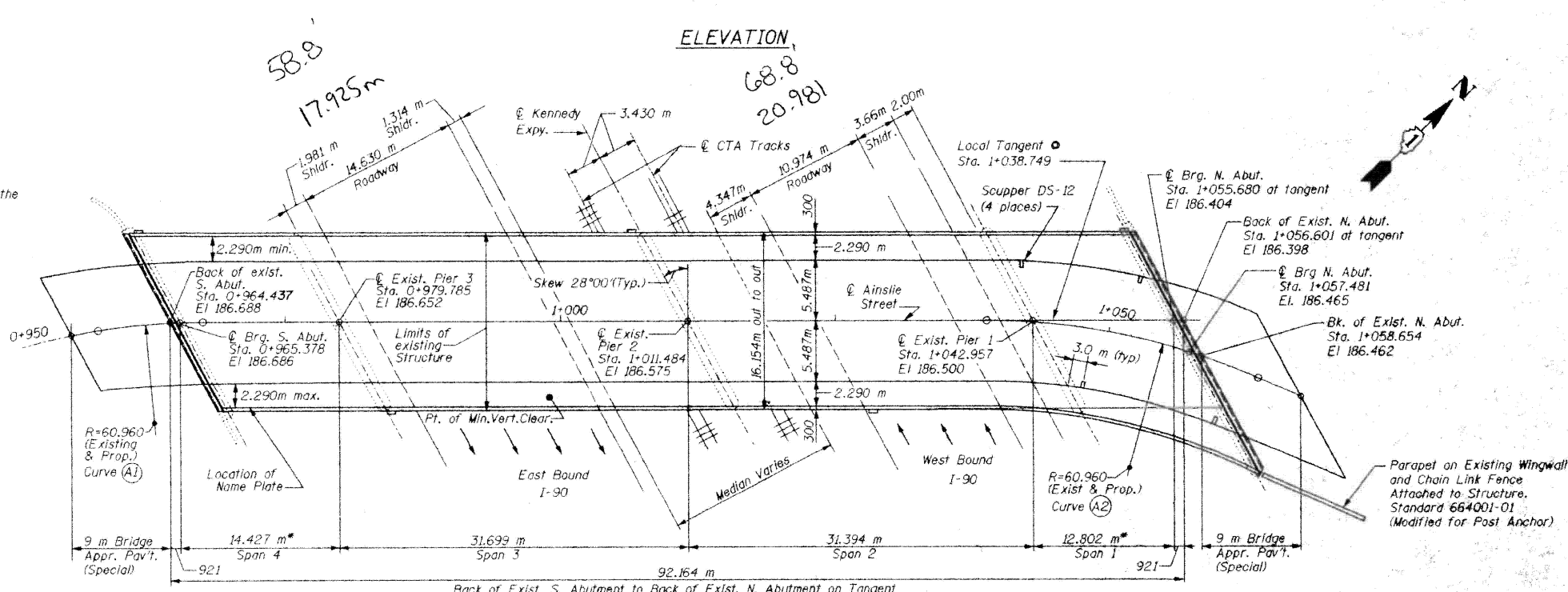
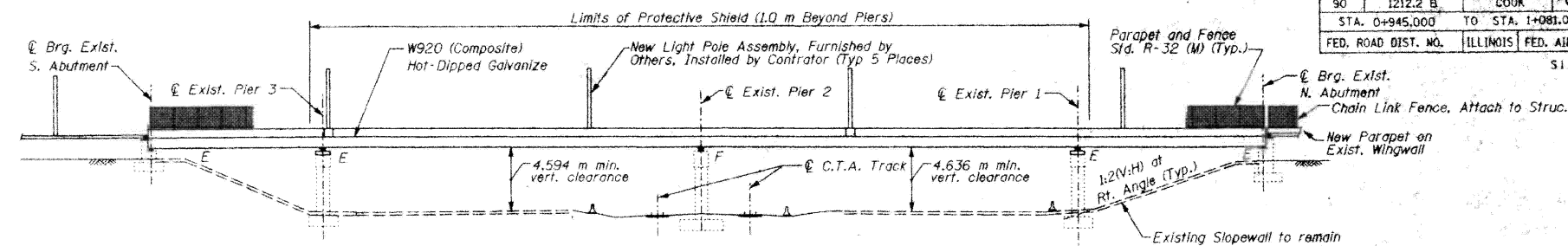
Loading MS18

Allow 2.4 kN/m² for future wearing surface.

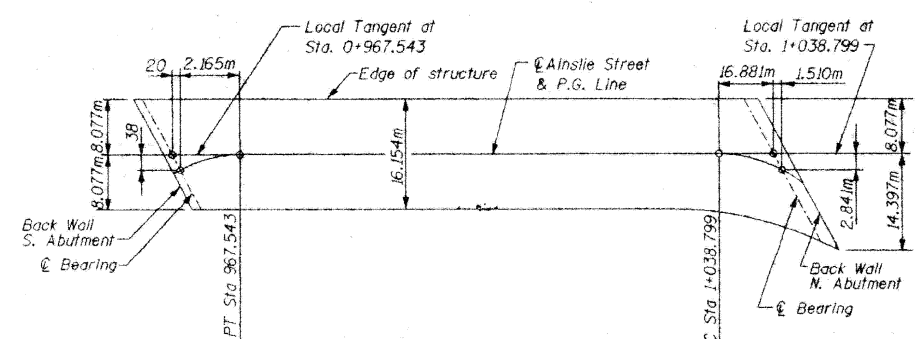


CURVE DATA

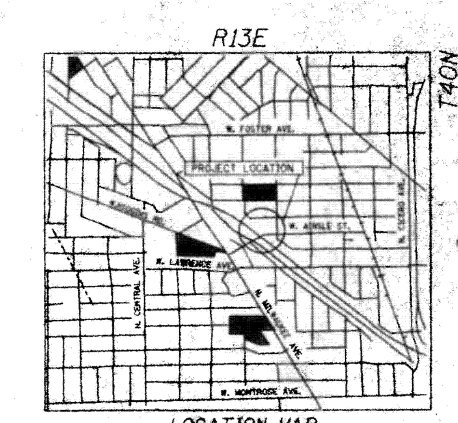
A1	A2
Δ = 8°59'50" RT	Δ = 23°53'28" RT
D = 28°38'52.40"	D = 28°38'52.40"
R = 60.960 m	R = 60.960 m
T = 4.796 m	T = 12.897 m
L = 9.573 m	L = 25.419 m
E = 0.188	E = 1.349
PC = STA. 0+957.970	PC = STA. 1+038.799
PI = STA. 0+962.766	PI = STA. 1+051.696
PT = STA. 0+967.543	PT = STA. 1+064.218



PLAN



HORIZONTAL ALIGNMENT



LOCATION MAP

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STV Incorporated
Engineers/Architects/Planners/Construction Managers
70 W. Madison St. Chicago, IL 60602-4207

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
AINSLIE STREET, OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1212.2 B COOK COUNTY
STATION 01+011.484 STRUCTURE NO. 016-1105
DESIGNED BY: A.W.H. DRAWN BY: A.W.H.
DATE: 12/2000 CHECKED BY: R.J.L. CHECKED BY: R.J.L.

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 29: AINSLIE ST OVER I-90 JFK & CTA (SN 016-1105)
EXISTING STRUCTURE DETAILS

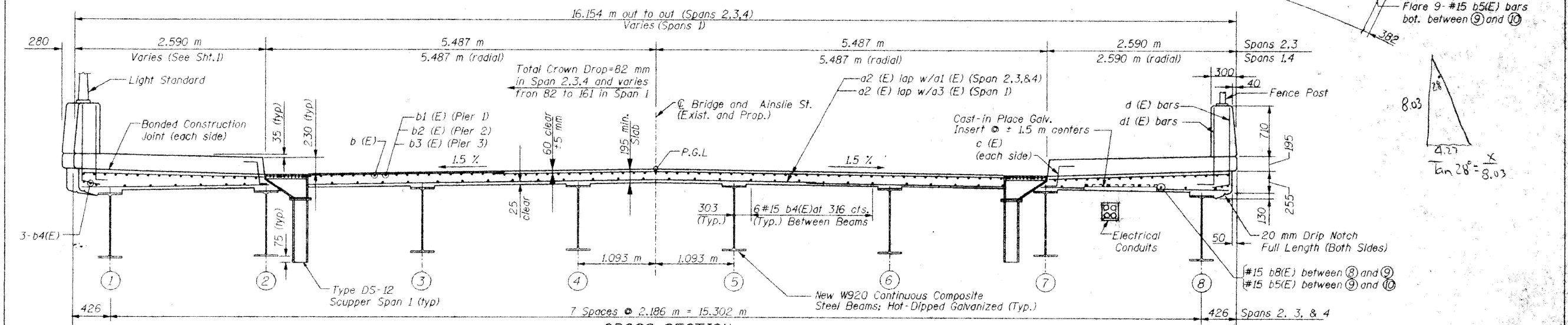
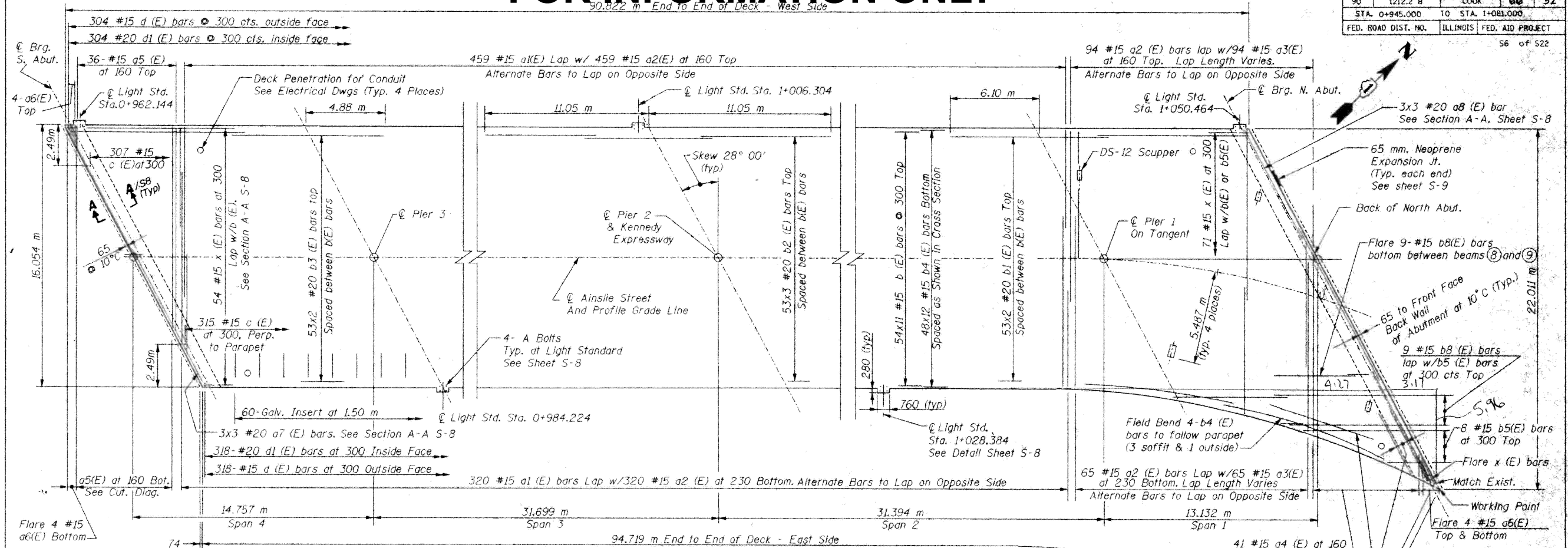
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	130
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1212.2 B	COOK	66	32
STA. 0+945.000 TO STA. 1+081.000		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		S6 of S22		



- Notes:
- See Sheet S-7 for sidewalk and parapet reinforcing details.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - Bars indicated as 32x3 #15, indicates 32 lines of bars with 3 bars per line.
 - Minimum bar lap splices: #15=640 mm, #20=790 mm.
 - See Sheet S8 for details at Light Standard.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK PLAN AND CROSS SECTION
AINSLIE STREET, OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1212.2 B COOK COUNTY
STATION 01+011.484 STRUCTURE NO. 016-1105
DESIGNED BY: A.W.H. DRAWN BY: A.W.H.
DATE: 12/2000 CHECKED BY: J.A.W. CHECKED BY: R.J.L.

MODEL: 41 (Sheet)
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

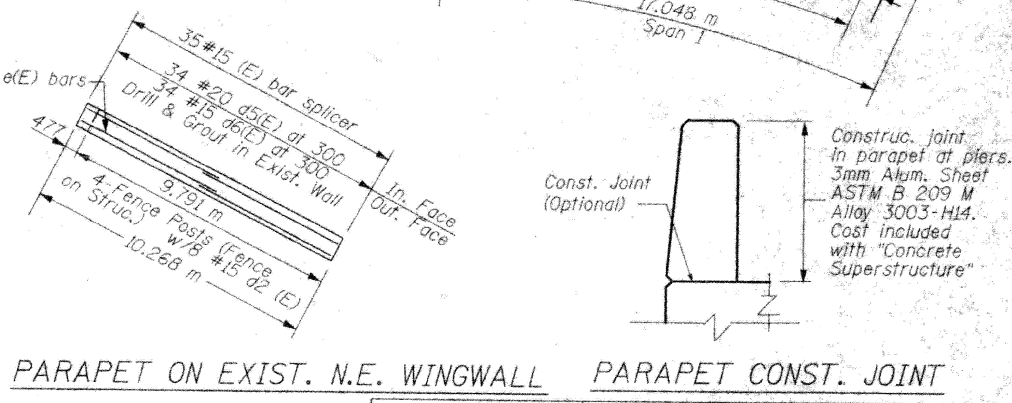
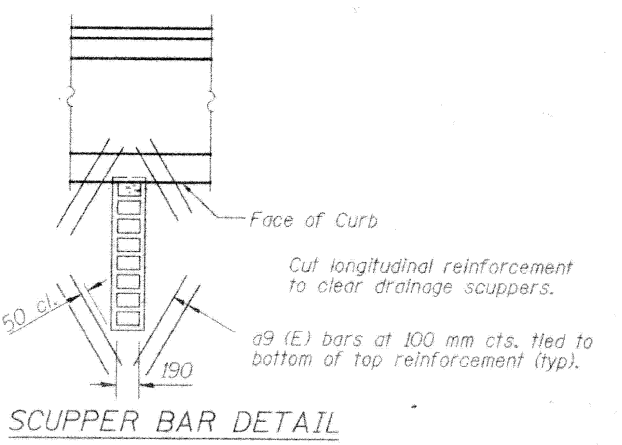
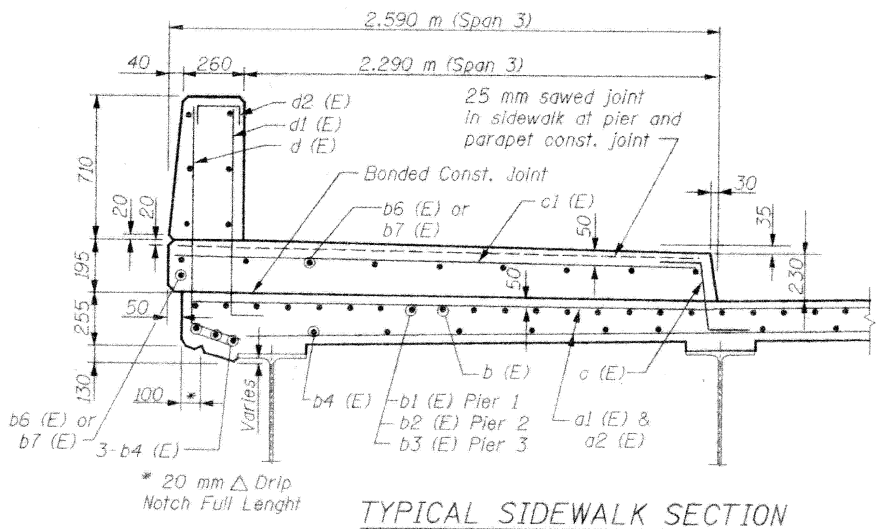
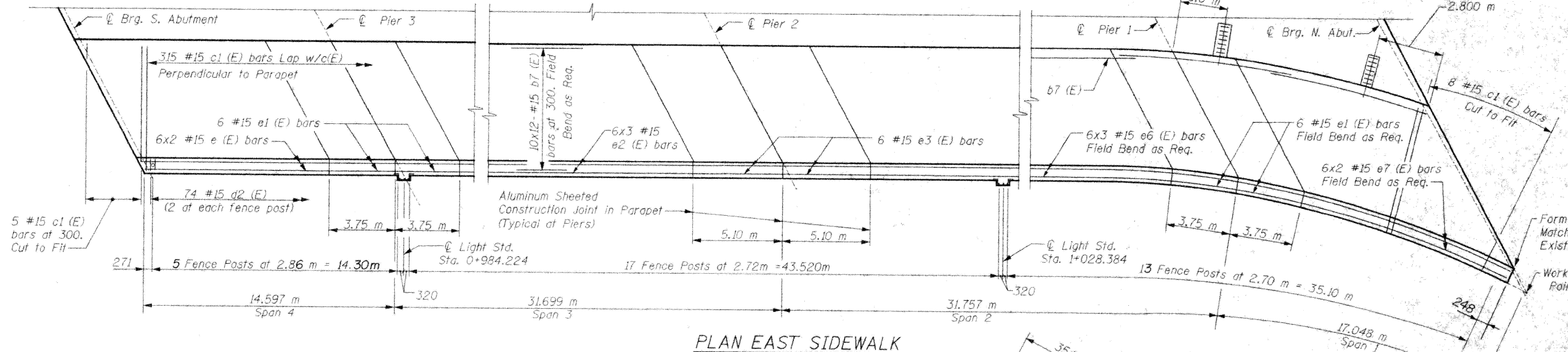
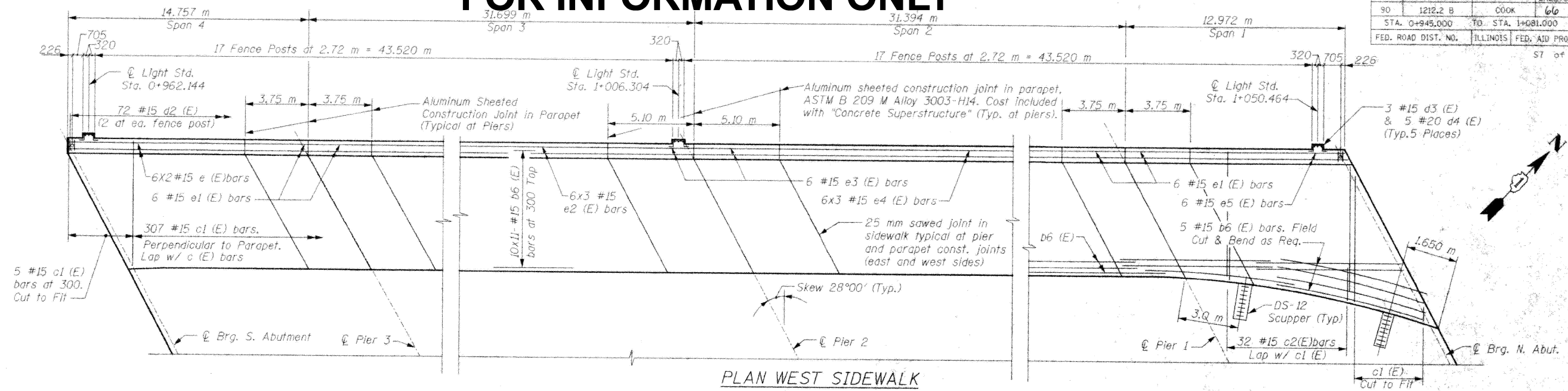
LOCATION 29: AINSIE ST OVER I-90 JFK & CTA (SN 016-1105)
EXISTING STRUCTURE DETAILS

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	131
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1212.2 B	COOK	66	33
STA. 0+945.000		TO STA. 1+081.000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
ST of 322				



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SIDEWALK AND PARAPET PLAN
 AINSLIE STREET, OVER
 JOHN F. KENNEDY EXPRESSWAY, FAI 90
 SECTION 1212.2 B COOK COUNTY
 STATION 01+011.484 STRUCTURE NO. 016-1105
 DESIGNED BY: A.W.H. DRAWN BY: A.W.H.

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 29: AINSLIE ST OVER I-90 JFK & CTA (SN 016-1105)
 EXISTING STRUCTURE DETAILS

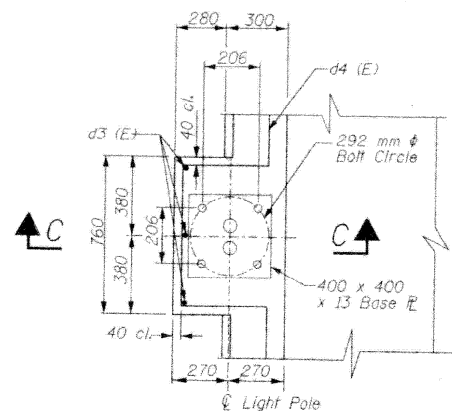
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ILLINOIS FED. AID PROJECT				

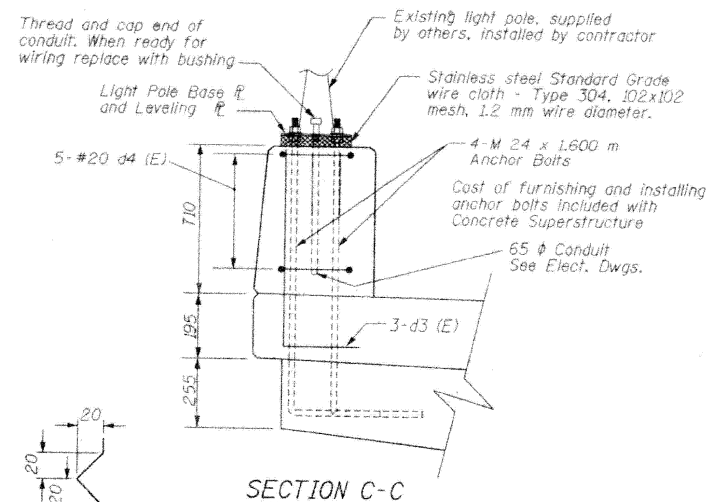
FOR INFORMATION ONLY

BILL OF MATERIAL

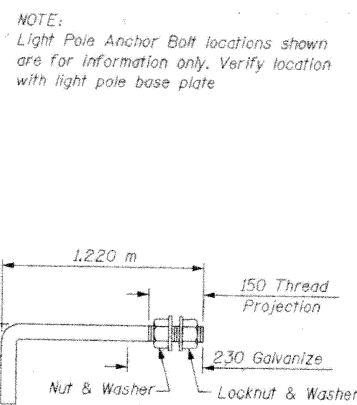
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1212.2 B	COOK	66	34
STA. 0+945.000		TO STA. 1+081.000		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	58 of 522



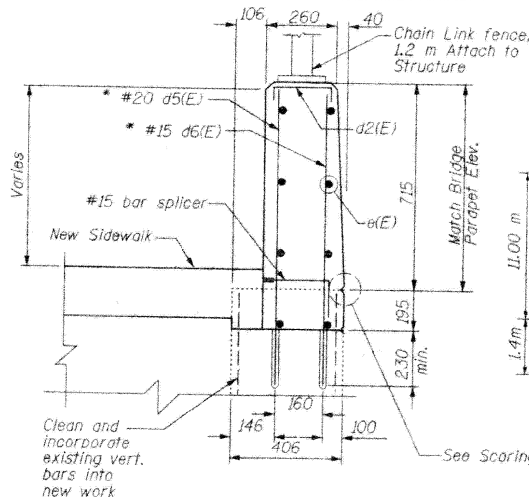
PLAN LIGHT POLE SUPPORT



SECTION C-C



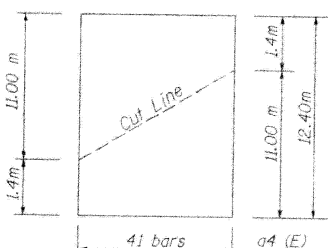
ANCHOR BOLT-M24 (20 REQUIRED)



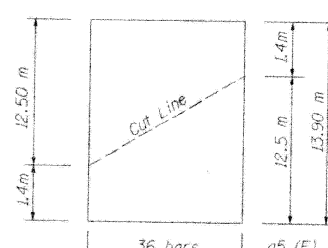
N.E. WINGWALL

* Epoxy grout d5(E), and d6(E) bars in 230 mm (Min) drilled holes according to section 584 of standards specifications

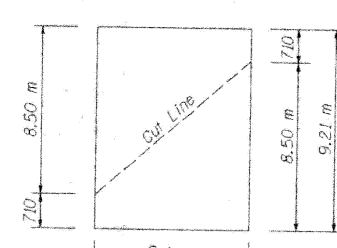
SCORING DETAIL (Match existing)



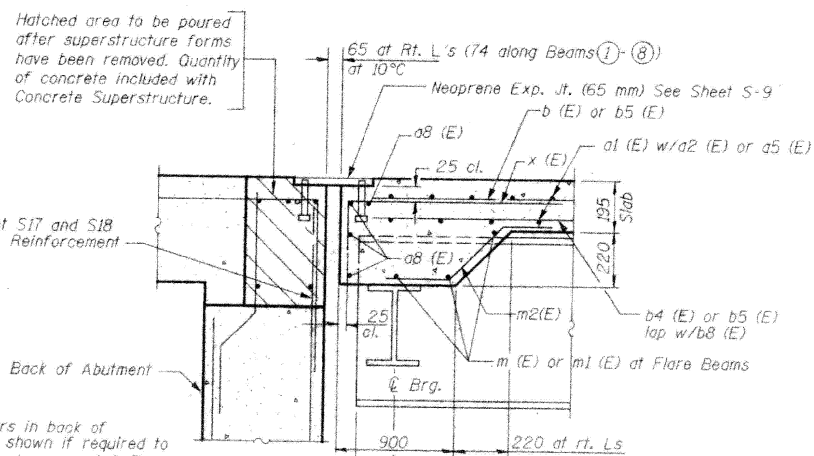
BAR a4 (E)



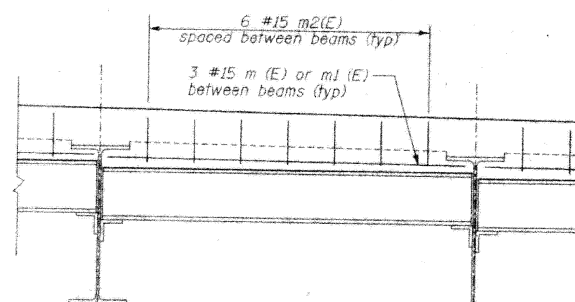
BAR a5 (E)



BAR b5 (E)



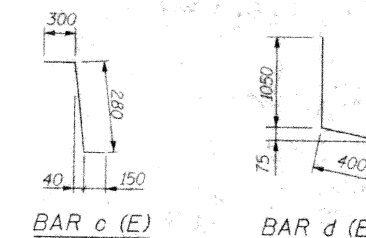
SECTION A-A



THICKENED SLAB at ABUTMENT

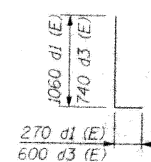
Additional Reinforcing at Abut. Diaph.

Bar	No.	Size	Length	Shape
a1 (E)	785	#15	6.11	
a2 (E)	938	#15	10.48	
a3 (E)	159	#15	7.80	
a4 (E)	41	#15	12.40	
a5 (E)	36	#15	13.90	
a6 (E)	16	#15	3.00	
a7 (E)	9	#15	6.46	
a8 (E)	9	#15	8.73	
a9 (E)	32	#15	0.61	
b (E)	594	#15	8.84	
b1 (E)	106	#20	9.99	
b2 (E)	159	#20	7.90	
b3 (E)	106	#20	10.19	
b4 (E)	576	#15	8.15	
b5 (E)	18	#15	9.21	
b6 (E)	115	#15	8.85	
b7 (E)	120	#15	8.51	
b8 (E)	18	#15	9.14	
c (E)	622	#15	0.73	
c1 (E)	640	#15	2.46	
c2 (E)	32	#15	4.72	
d (E)	622	#15	1.45	
d1 (E)	622	#20	1.33	
d2 (E)	146	#15	0.61	
d3 (E)	15	#20	1.34	
d4 (E)	25	#20	2.74	
d5 (E)	35	#20	1.00	
d6 (E)	35	#15	1.00	
e (E)	24	#15	5.77	
e1 (E)	48	#15	3.65	
e2 (E)	36	#15	8.01	
e3 (E)	24	#15	5.00	
e4 (E)	18	#15	7.91	
e5 (E)	6	#15	9.28	
e6 (E)	18	#15	8.03	
e7 (E)	12	#15	6.92	
m (E)	42	#15	2.33	
m1 (E)	6	#15	2.40	
m2 (E)	112	#15	1.31	
x (E)	125	#15	1.28	
Item		Unit	Total	
Reinforcement bars, epoxy coated		kg	63680	
Concrete superstructure		m ³	461.3	



BAR c (E)

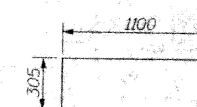
BAR d (E)



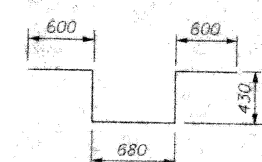
BAR d1 (E)

BAR d3 (E)

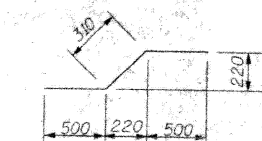
BAR d2 (E)



BAR x (E)



BAR d4 (E)



BAR m2 (E)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK DETAILS AND BILL OF MATERIALS
AINSLIE STREET, OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1212.2 B COOK COUNTY
STATION 01+011.484 STRUCTURE NO. 016-1105
DESIGNED BY: A.W.H. DRAWN BY: A.W.H.
DATE: 12/2000 CHECKED BY: J.A.W. CHECKED BY: B.H.

MODEL: 43 (Sheet)
FILE NAME: c:\p\work\102925-shr\typical.dgn

USER NAME	DESIGNED	REVISIONS
ivan.diaz	-	-
	DRAWN	REVISIONS
	CHECKED	REVISIONS
PLOT DATE	DATE	REVISIONS
12/4/2025	-	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 29: AINSIE ST OVER I-90 JFK & CTA (SN 016-1105)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 004 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	133
CONTRACT NO. 62X44				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

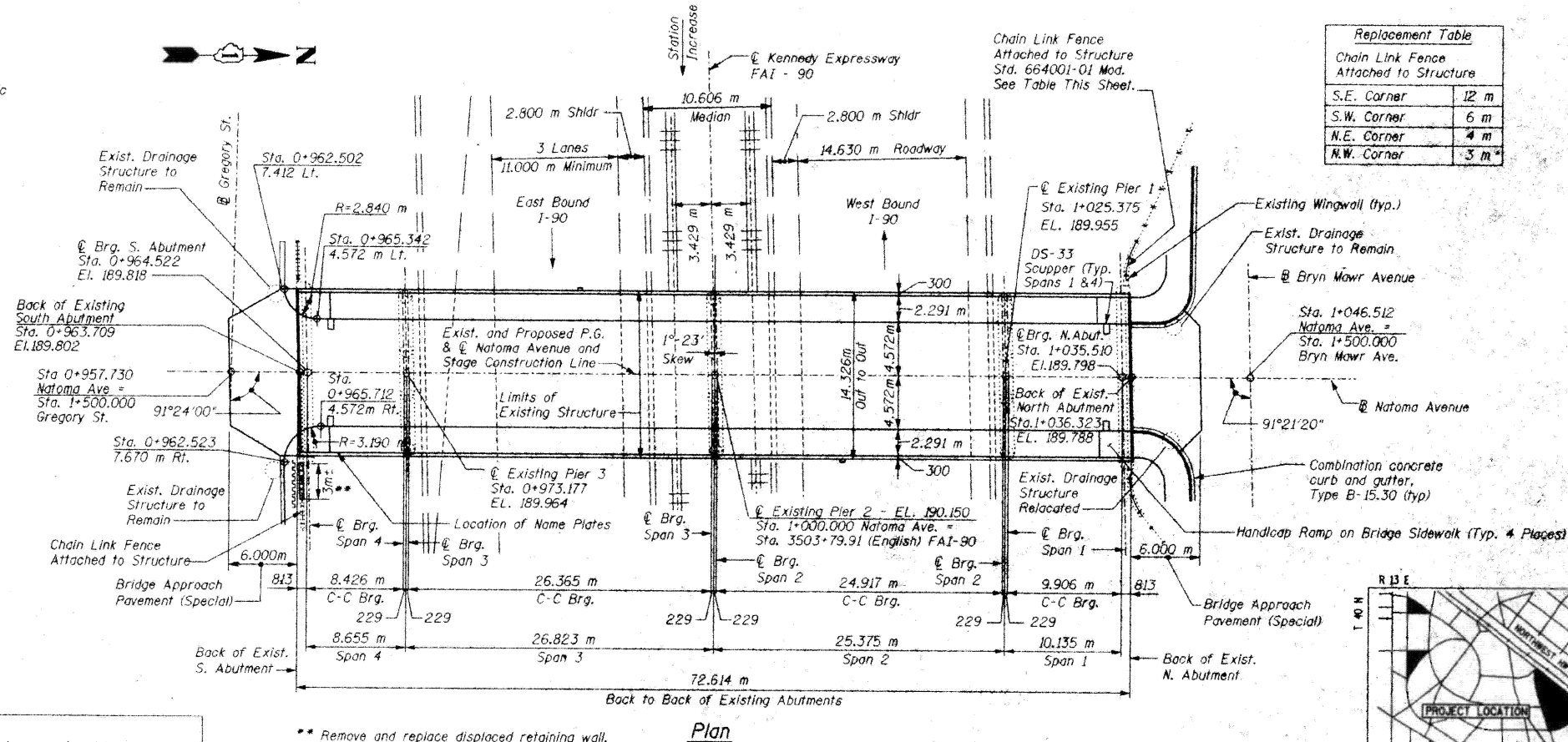
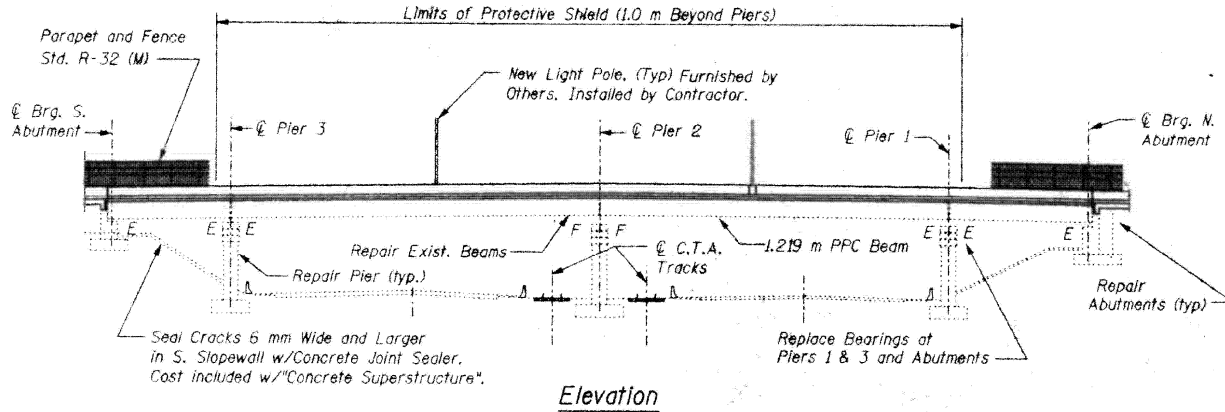
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1414.1 B-2	COOK	63	27
STA. 0+951.561		TO STA. 1+048.933		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
S1 OF S23				

Bench Mark: Top of Chain Bolt of Fire Hydrant at Northwest corner of Bryn Mawr Avenue and Natoma Avenue. Sta. 0+060.500, 5.5 m left. El. 189.997

Salvage:
Aluminum Railing

Existing Bridge Description:

Structure 016-1106 was built in 1958 as the Natoma Avenue Grade Separation. The superstructure consists of four simple spans of precast, prestressed concrete beams with a 178 mm thick concrete structural deck. The span lengths from north to south are 10.135 m, 25.375 m, 26.823 m and 8.655 m. The total length of the bridge from back to back of abutments is 72.614 m. The substructure consists of two reinforced concrete stub abutments with wingwalls and three reinforced concrete piers all founded on reinforced concrete spread footings. The deck out-to-out dimension is 14.326 m consisting of a 2.591 m wide sidewalk on each side of the bridge and one 4.572 m wide traffic lane in each direction. Protection is provided by aluminum railings mounted to the sidewalk on each side of the deck. The deck has a centerline longitudinal joint and transverse expansion joints located at Piers 1 and 3. The bearings are fixed at both abutments and Pier 2, and expansion bearings are located at Piers 1 and 3. The bridge will be open for pedestrian traffic during all phases of reconstruction by staging, but closed to vehicular traffic.



Replacement Table

Chain Link Fence Attached to Structure	
S.E. Corner	12 m
S.W. Corner	6 m
N.E. Corner	4 m
N.W. Corner	3 m

STATION 01+000.000
REBUILT 200 BY
STATE OF ILLINOIS
SECTION 1414.1 B2
LOADING MS 18
STR. NO. 016-1106

NAME PLATE
Std. 515001

Note: Relocate existing name plate from railing at NW corner of bridge to parapet at SE corner of bridge, next to new name plate. Cost included with the cost of "Name Plates".

Note: All dimensions are in millimeters (mm), except as noted.

Design Specification

1996 AASHTO, 16th edition, with 1997 and 1998 Interim Revisions.
1995 Seismic Retrofitting Guidelines for Highway Bridges, FHWA/RD-94/052

Loading MS 18

Allow 2.4kN/m² future wearing surface

Design Stresses

New Construction
Field Units
f'_c = 24 MPa
f_y = 400 MPa (reinf.)

Design Stresses

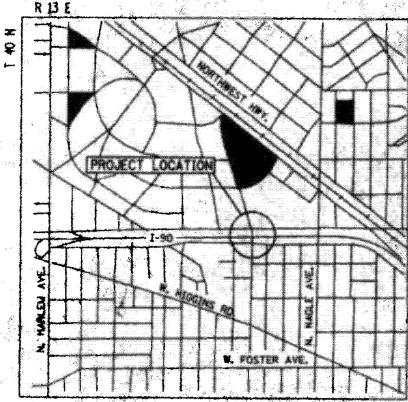
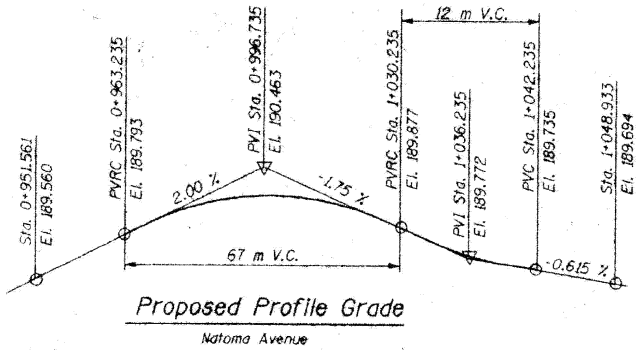
Existing Construction
Field Units
f'_c = 9.65 MPa
f_s = 138 MPa (reinf.)
n = 10

Precast Prestressed Units

f'_c = 34.47 MPa
f_s = 1654.7 MPa
(11 mm ϕ Stress Relieved Strand)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph Eschmann
ENGINEER OF BRIDGES AND STRUCTURES

Expiration Date 11-30-2000



REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
NATOMA AVENUE, OVER
JOHN F. KENNEDY EXPRESSWAY, FAI 90
SECTION 1414.1 B-2 COOK COUNTY
STATION 01+000.000 STRUCTURE NO. 016-1106
DESIGNED BY A.W.H. DRAWN BY M.A.K.

MODEL: 44 (Sheet) FILE NAME: c:\pwworking\11677701\102925-shr\typical.dgn

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 30: NATOMA AVE OVER I-90 JFK & CTA (SN 016-1106)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 001 OF 3 SHEETS STA. TO STA.

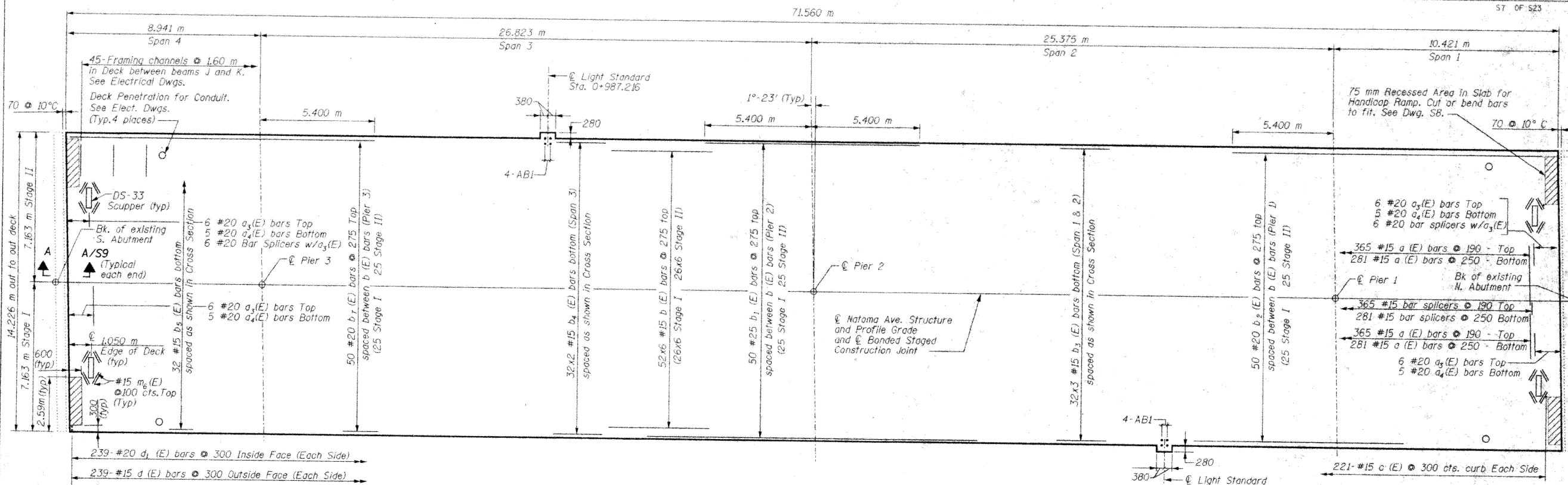
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	134
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

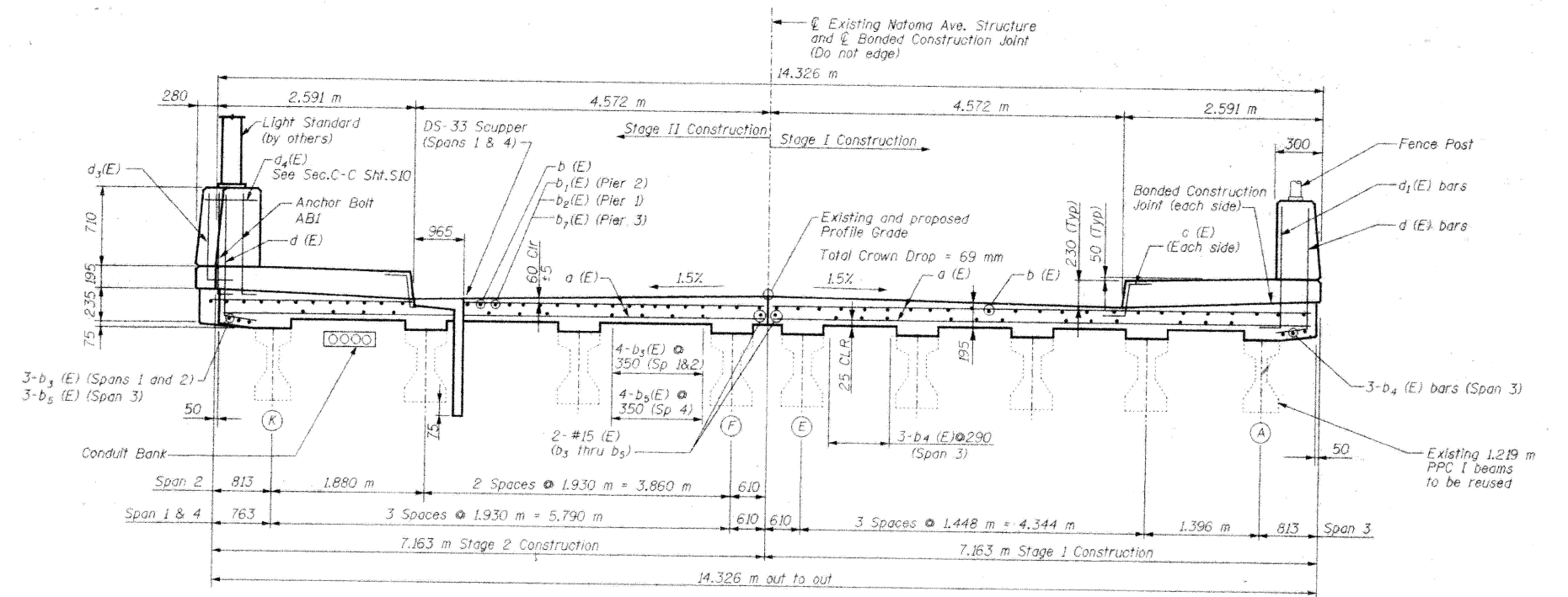


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1414.1 B-2	COOK	63	31
STA. 0+951.561		TO STA. 1+048.933		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

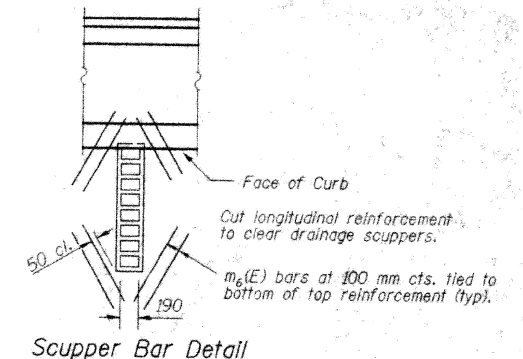
57 OF 523



(Showing Deck Reinforcing Only)



CROSS SECTION
Looking North



Scupper Bar Detail

- Notes:
1. See Sheet SB for sidewalk and parapet reinforcing details.
 2. Reinforcement bars designated (E) shall be epoxy coated.
 3. Bars indicated as 32 x 4-#15, etc. indicates 32 lines of bars with 4 bars per line.
 4. Minimum #15 bar lap splice = 640.
 5. See sheet S9 for diaphragm detail.
 6. See sheet S13 for bar splicer details.
 7. See sheet S10 for details at Light Standard.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE PLAN NATOMA AVENUE, OVER JOHN F. KENNEDY EXPRESSWAY, FAI 90 SECTION 1414.1 B-2 COOK COUNTY STATION 01+000.000 STRUCTURE NO. 016-1106 DESIGNED BY A.W.H. DRAWN BY C.U.
NAME	DATE	

MODEL: 45 (Sheet)
FILE NAME: c:\pwworking\1167770\102925-shr\typical.dgn

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 30: NATOMA AVE OVER I-90 JFK & CTA (SN 016-1106)
EXISTING STRUCTURE DETAILS

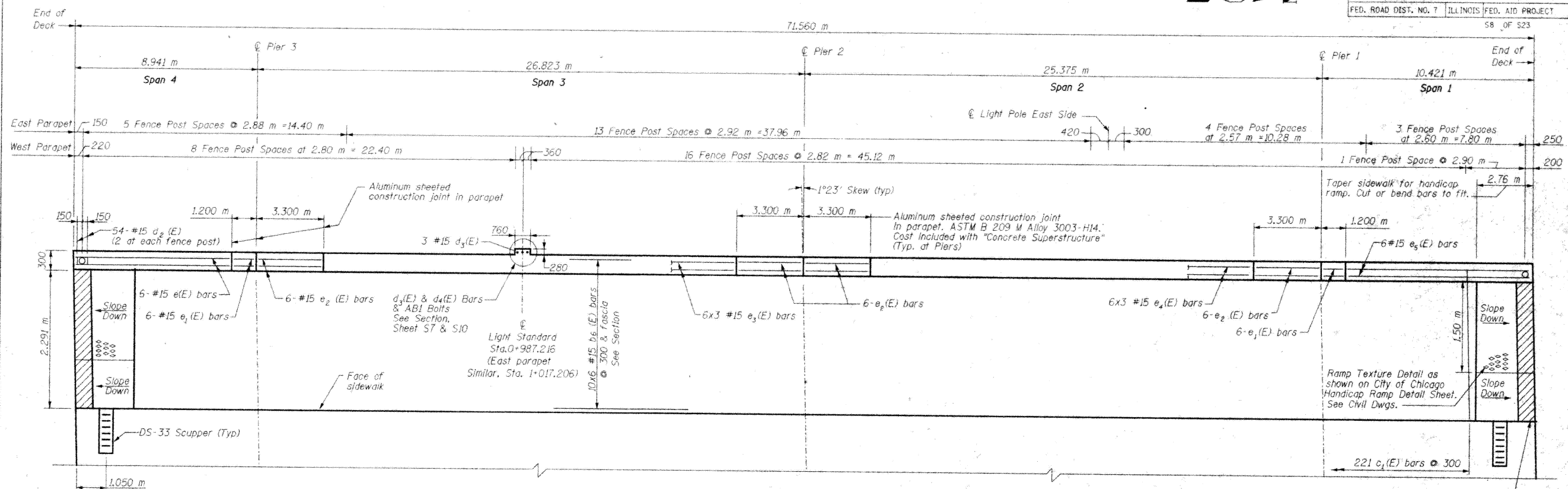
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	135
CONTRACT NO. 62X44				

ILLINOIS FED. AID PROJECT

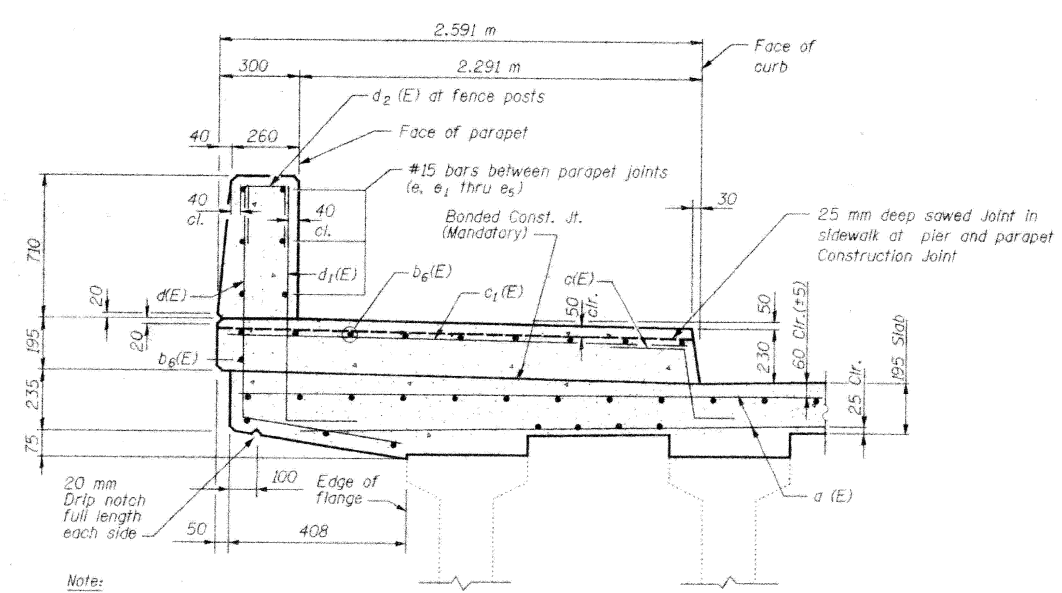
FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1414.1 B-2	COOK	63	32
STA. 0+951.561		TO STA. 1+048.933		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

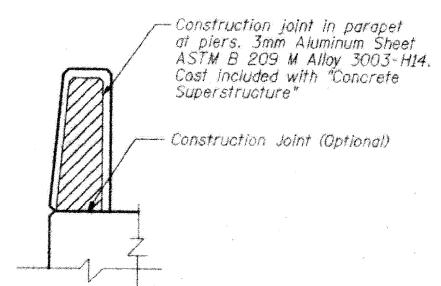


SIDEWALK PLAN
(West Shown, East Side Similar Except Light Pole Base Location)

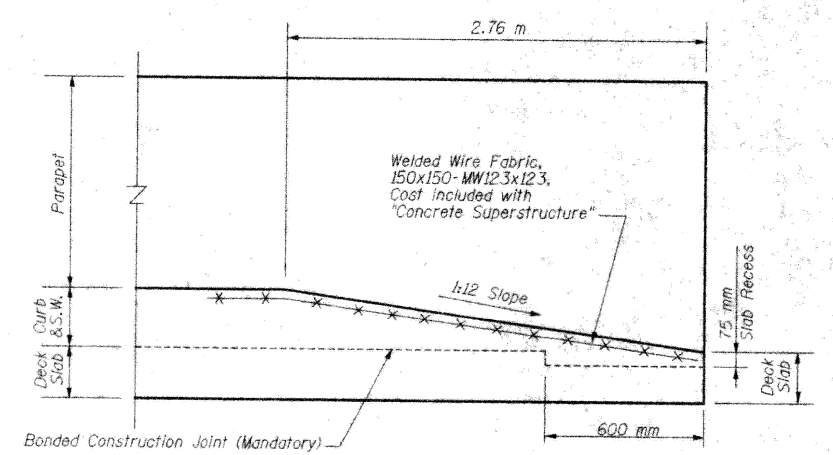
(See Sheet S11 for Bridge Fence Railing)



TYPICAL SIDEWALK SECTION



PARAPET CONST. JOINT



SECTION at HANDICAP RAMP
(Typical 4 Corners of Bridge Deck)

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE DETAILS NATOMA AVENUE, OVER JOHN F. KENNEDY EXPRESSWAY, FAI 90 SECTION 1414.1 B-2 COOK COUNTY STATION 01+000.000 STRUCTURE NO. 016-1106 DESIGNED BY A.W.H. DRAWN BY C.J.U. DATE 10/26/00 CHECKED BY R.J.I. CHECKED BY R.J.I. Z.W.H.
NAME	DATE	

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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 30: NATOMA AVE OVER I-90 JFK & CTA (SN 016-1106)
EXISTING STRUCTURE DETAILS**

SCALE: SHEET 003 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	136
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

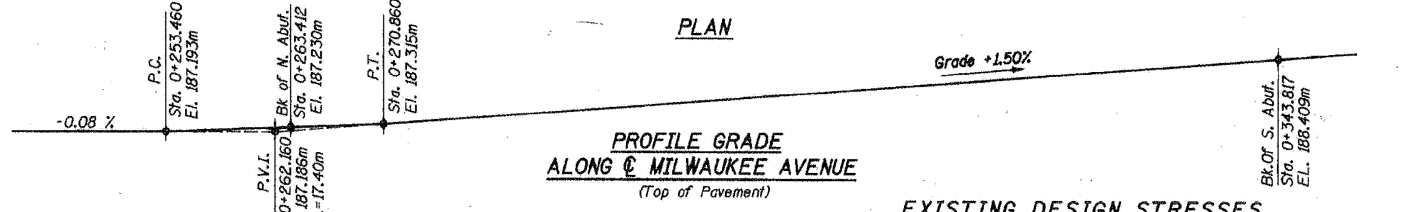
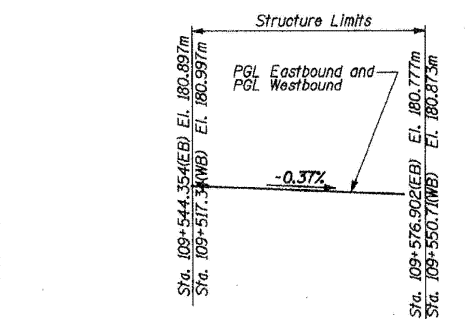
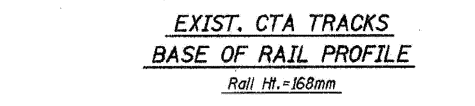
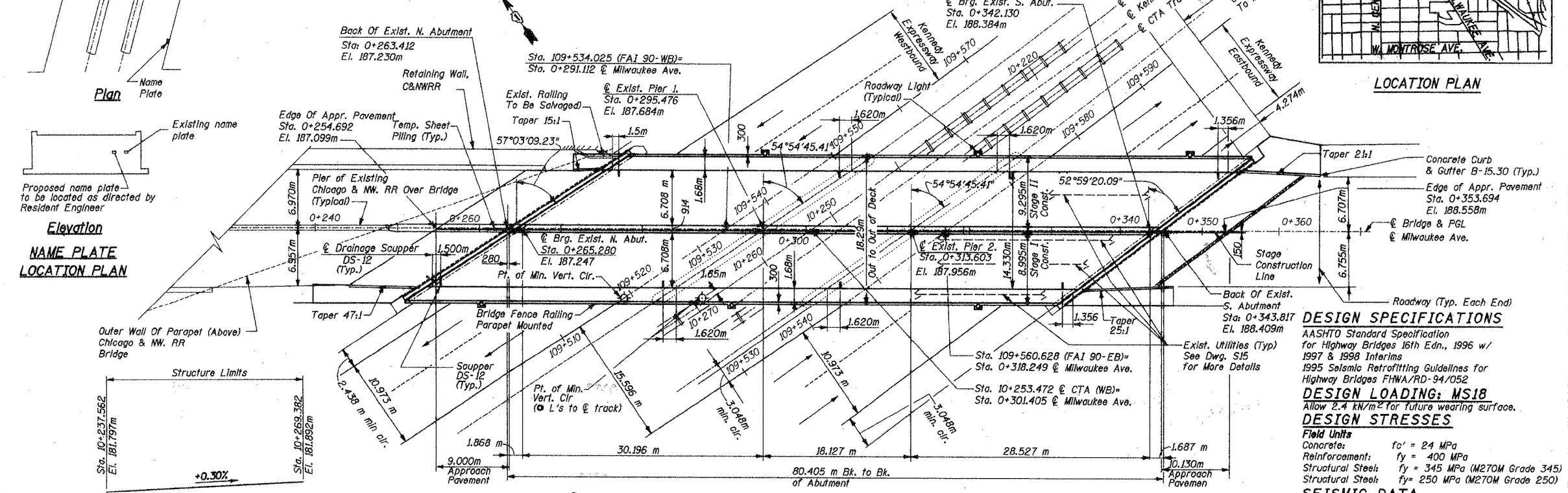
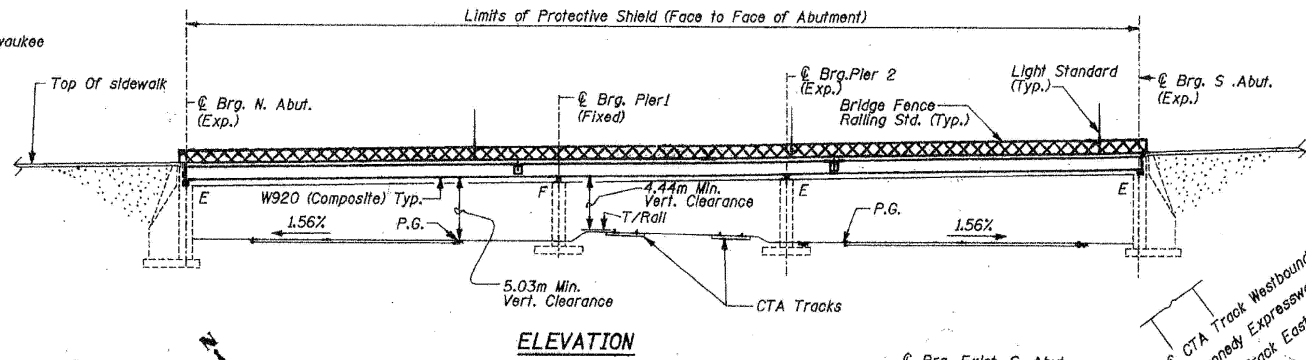
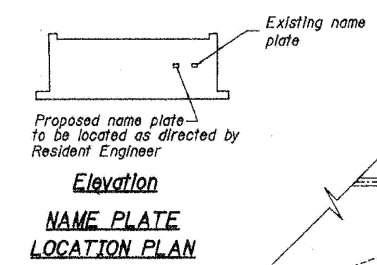
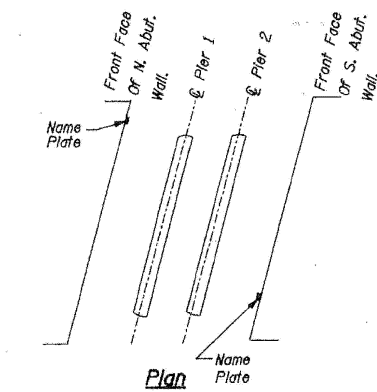
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA190	1212-1B	COOK	02	27
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		

Bench mark: Bm#1: Fire Hydrant at Northeast Corner of Junction Milwaukee Ave. and Gale St.
Sta. 0+437.421, 7.11m Lt. Elev. 188.940m
Bm#2: Fire Hydrant at Northeast Corner of Milwaukee Ave. and Carmen Ave.
Sta. 0+115.253, 24.40m Lt. Elev. 186.556m.

Existing Structure: Structure No. : 016-1107 was built in 1958 as the Milwaukee Avenue Grade Separation. The superstructure consists of a three span continuous steel stringer system. The span from north to south are 30.196m, 16.127m and 28.527m for a total length of 76.850m. The deck out-to-out width is 18.290m.



DESIGN SPECIFICATIONS
AASHTO Standard Specification for Highway Bridges 16th Ed., 1996 w/ 1997 & 1998 Interims
1995 Seismic Retrofitting Guidelines for Highway Bridges FHWA/RD-94/052
DESIGN LOADING: MS18
Allow 2.4 kN/m² for future wearing surface.
DESIGN STRESSES
Field Units
Concrete: f_c = 24 MPa
Reinforcement: f_y = 400 MPa
Structural Steel: f_y = 345 MPa (M270M Grade 345)
Structural Steel: f_y = 250 MPa (M270M Grade 250)
SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0

NAME PLATE
(See Std. 515001)
STATION 0+318.249
REBUILT 2002 BY
STATE OF ILLINOIS
F.A. 1-90 SEC 1212-1B
F.A. PROJ.
LOADING MS18
STR. NO. 016-1107
RFI #8

MANU SHAH
091-002932
REGISTERED
STRUCTURAL
ENGINEER
OF
ILLINOIS

SIGNED: *Manu Shah*
DATE: 10-30-2000
LICENSE EXPIRES: 11-30-2001

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SHAH ENGINEERING, INC.
ONE IRI PLAZA SUITE 3200
CHICAGO, IL 60608
Consulting Engineers

STV INCORPORATED
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
70 W. MADISON ST. CHICAGO, IL 60602-4207

GENERAL PLAN
MILWAUKEE AVE. OVER KENNEDY EXPRESSWAY
F.A.I. ROUTE 90 (SECTION 1212 - 1B)
COOK COUNTY
STATION 0+304.799
SN. 016-1107

Record Drawing

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FILE NAME: c:\pwworking\shah\11677701\102925-shs.txd

USER NAME	DESIGNED	REVISIONS
ivan.diaz	-	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 31: MILWAUKEE AVE OVER I-90 JFK & CTA (SN 016-1107)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 001 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	137
CONTRACT NO. 62X44				

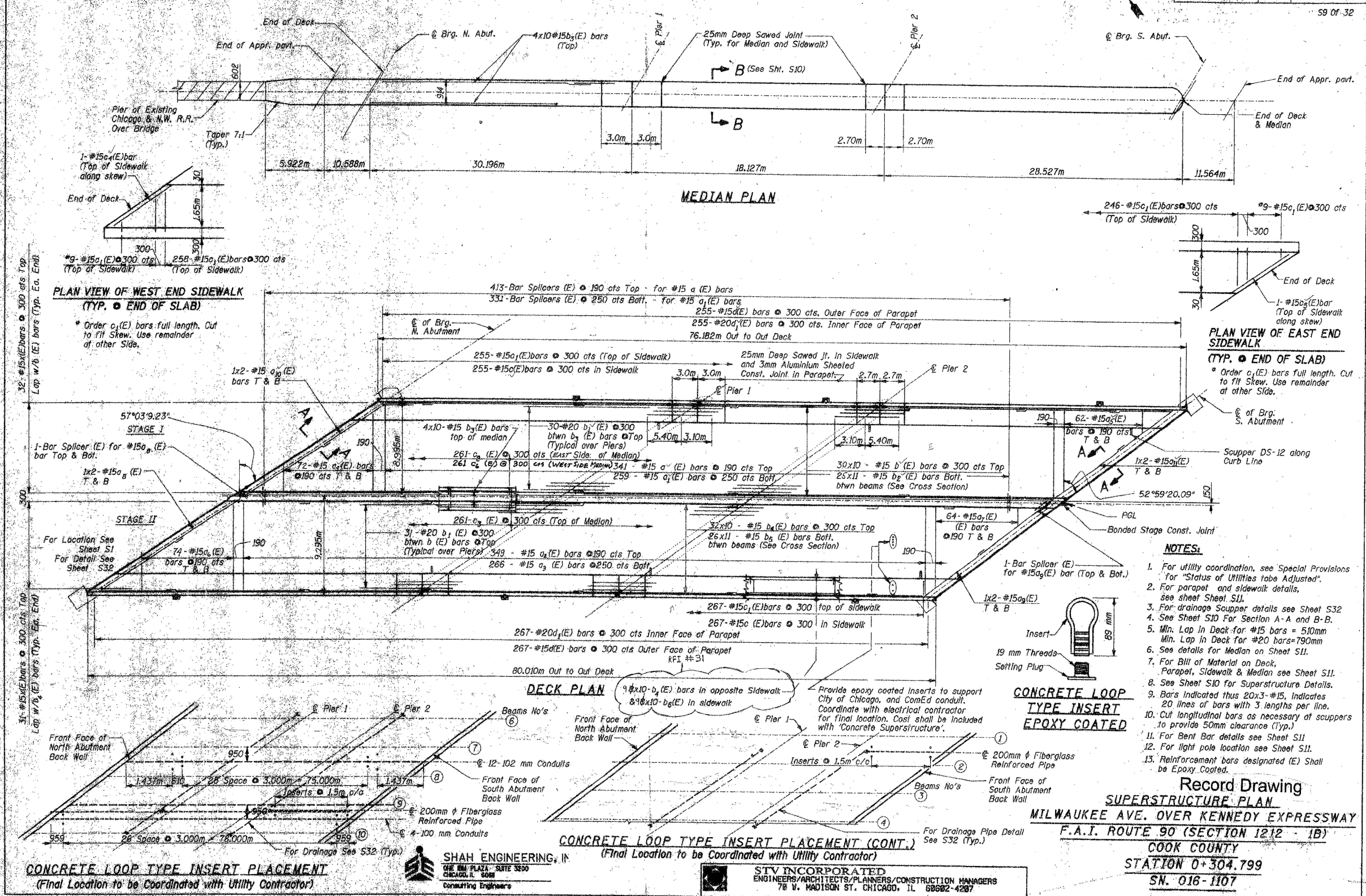
ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA90	12121B	COOK	82	35
STA.	TO STA.			
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

59 OF 32



After review for general design concept only. Contractor remains responsible for all details, dimensions and conditions of work.

BY: [Signature]

DATE: 12/4/2025

CHS
DEPARTMENT OF TRANSPORTATION
BUREAU OF FEDERAL AID TRANSPORT
CDG: WS-F-056
TRANSYS CORPORATION
105 PERIMETER DRIVE, SUITE 1025
SCHALMURG, IL 60173-5058

CONCRETE LOOP TYPE INSERT PLACEMENT
(Final Location to be Coordinated with Utility Contractor)

SHAH ENGINEERING, INC.
100 N. LAKE ST. SUITE 3200
CHICAGO, IL 60601
Consulting Engineers

STV INCORPORATED
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
78 W. MADISON ST. CHICAGO, IL 60602-4207

Record Drawing
SUPERSTRUCTURE PLAN
MILWAUKEE AVE. OVER KENNEDY EXPRESSWAY
F.A.I. ROUTE 90 (SECTION 1212 - 1B)
COOK COUNTY
STATION 0+304.799
SN. 016-1107

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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 31: MILWAUKEE AVE OVER I-90 JFK & CTA (SN 016-1107)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 002 OF 4 SHEETS STA. TO STA.

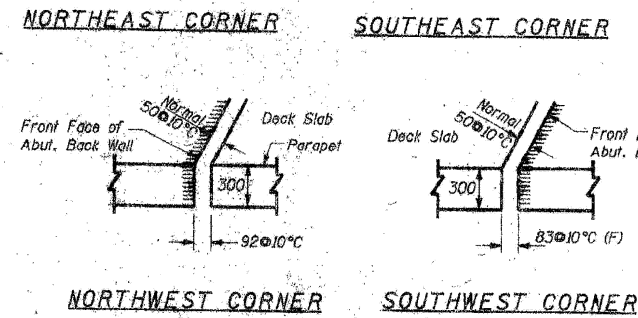
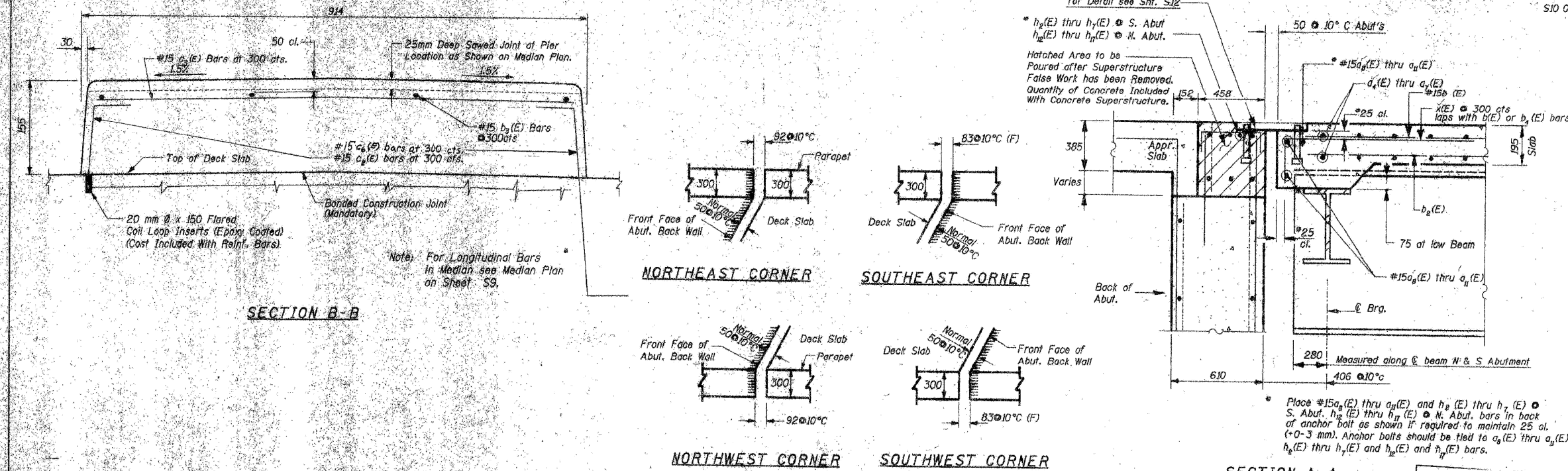
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	138
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

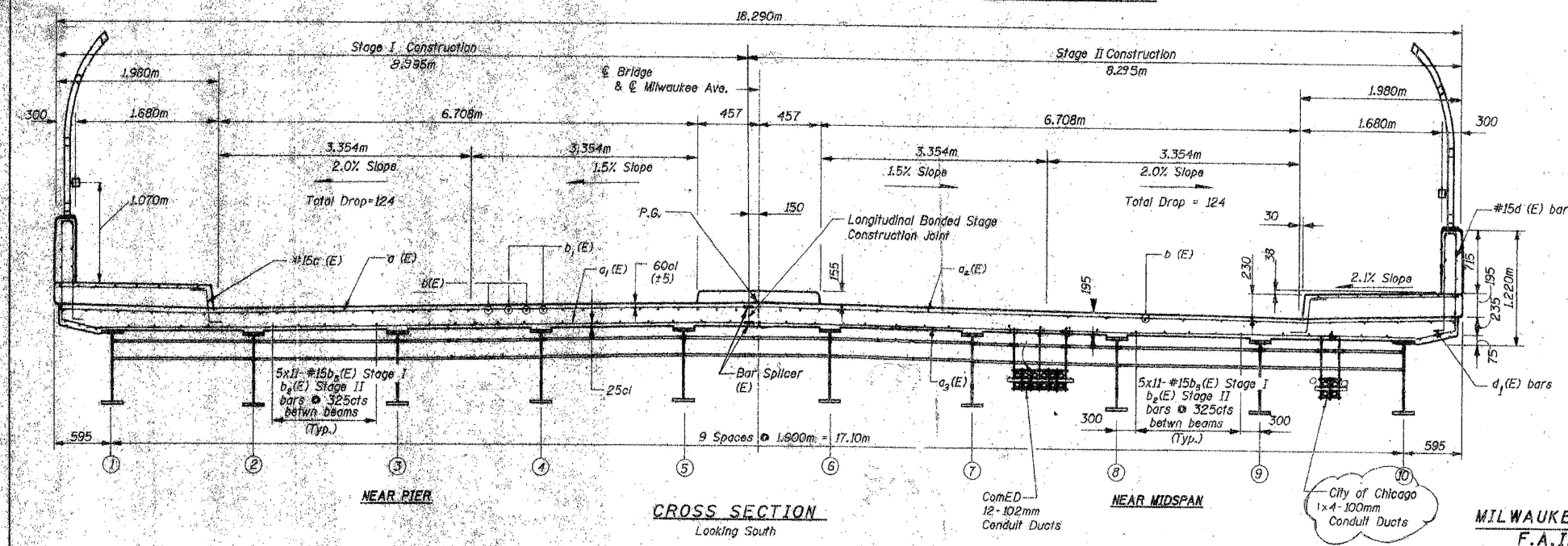
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
190	1212-1B	COOK	32	36
STA.	TO STA.			
FED. ROAD DIST. NO. 7			ILLINOIS FED. AID PROJECT	

S10 OF 32



DECK SLAB TREATMENT AT END CORNERS



After review for design concept only. Contractor responsible for construction and conditions.
BY: [Signature] 3-7-08
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGE ENGINEERING AND ASSISTANT
TRANS SYSTEMS DIVISION
1001 PEARSON DRIVE, SUITE 1025
SCHLAUSBURG, IL 60173-0018

- NOTES:**
1. For parapet and sidewalk details, see sheet S11.
 2. For drainage scupper details see Sht. S32.
 3. For Bent Bar details see Sheet S11.
 4. Reinforcement bars designated (E) shall be epoxy coated.
 5. Work this sheet with S9.
 6. For Bar Splicer Details see Sht. S13.

Record Drawing
SUPERSTRUCTURE DETAILS
MILWAUKEE AVE. OVER KENNEDY EXPRESSWAY
F.A.I. ROUTE 90 (SECTION 1212 - 1B)
COOK COUNTY
STATION 0+304.799
SN. 016-1107

SHAH ENGINEERING, INC.
ONE 8th PLAZA, SUITE 3200
CHICAGO, IL 60608
Consulting Engineers

STV INCORPORATED
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
78 W. MADISON ST. CHICAGO, IL 60602-4287

USER NAME	DESIGNED	REVISED
= Ivan.diaz	-	-
	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 31: MILWAUKEE AVE OVER I-90 JFK & CTA (SN 016-1107)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 003 OF 4 SHEETS STA. TO STA.

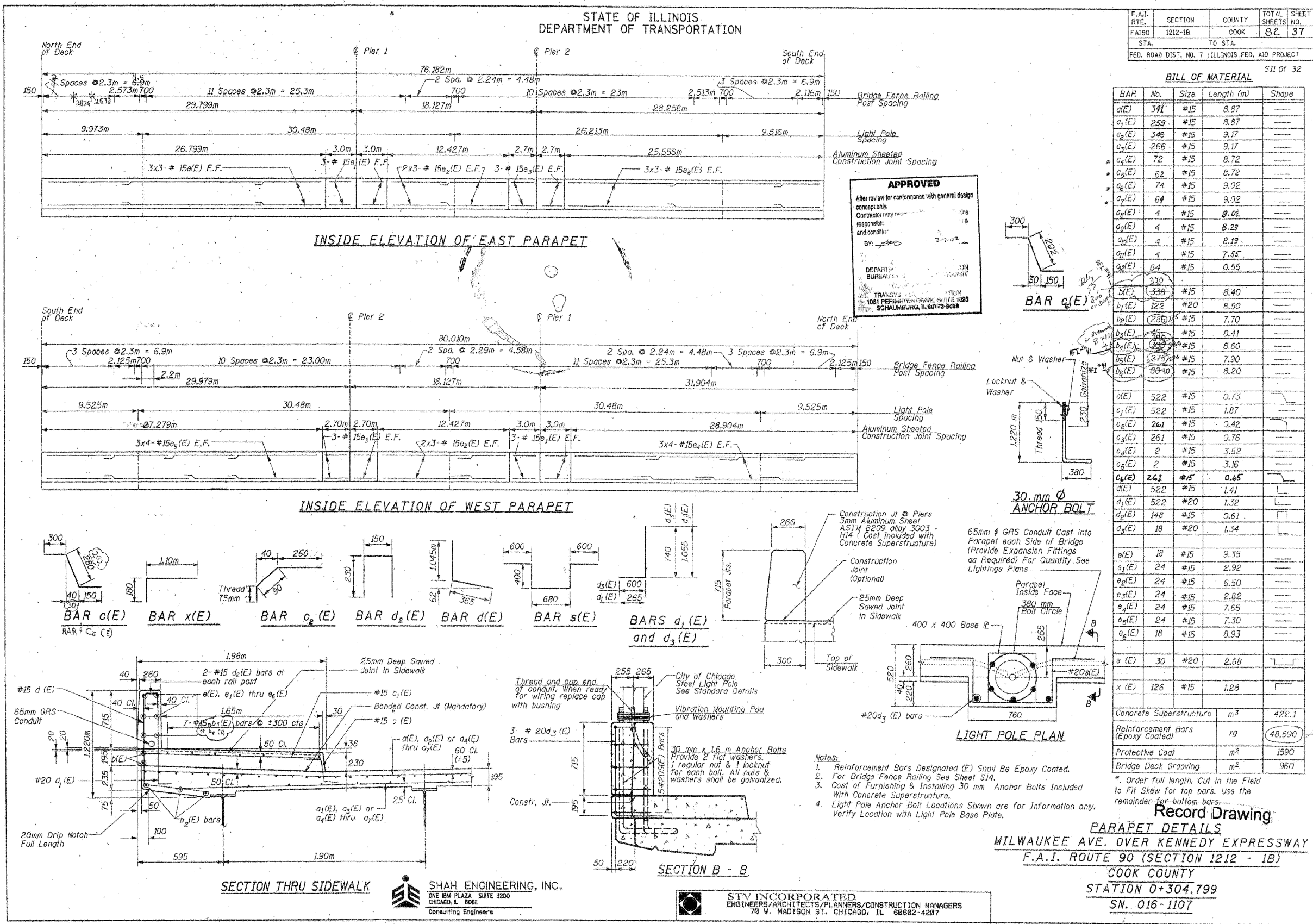
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	139
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

MODEL: 49 (Sheet)
FILE NAME: c:\pwworking\shah.dia\11677701D-102925-shs.typical.dgn

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

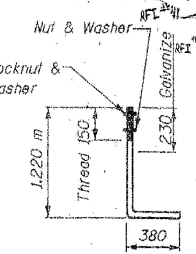
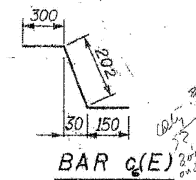
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI90	1212-18	COOK	82	37
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
S11 OF 32				



APPROVED
After review for conformance with general design concept only.
Contractor responsible for design and construction.
BY: [Signature] 3-7-02
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGE ENGINEERING
TRANSFERRED TO: [Signature] 10/15/08
BY: [Signature] 10/15/08
SCHUMBERG, IL 60173-6688

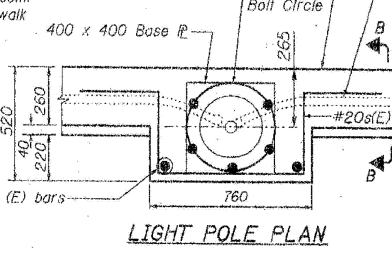
BILL OF MATERIAL

BAR No.	Size	Length (m)	Shape
a ₁ (E)	341	#15	8.87
a ₂ (E)	259	#15	8.87
a ₃ (E)	348	#15	9.17
a ₄ (E)	266	#15	9.17
a ₅ (E)	72	#15	8.72
a ₆ (E)	62	#15	8.72
a ₇ (E)	74	#15	9.02
a ₈ (E)	64	#15	9.02
a ₉ (E)	4	#15	8.02
a ₁₀ (E)	4	#15	8.29
a ₁₁ (E)	4	#15	7.55
a ₁₂ (E)	4	#15	0.55
b ₁ (E)	330	#15	8.40
b ₂ (E)	122	#20	8.50
b ₃ (E)	285	#15	7.70
b ₄ (E)	49	#15	8.41
b ₅ (E)	160	#15	8.60
b ₆ (E)	275	#15	7.90
b ₇ (E)	8840	#15	8.20
c ₁ (E)	522	#15	0.73
c ₂ (E)	522	#15	1.87
c ₃ (E)	261	#15	0.42
c ₄ (E)	261	#15	0.76
c ₅ (E)	2	#15	3.52
c ₆ (E)	2	#15	3.16
c ₇ (E)	261	#15	0.65
d ₁ (E)	522	#15	1.41
d ₂ (E)	522	#20	1.32
d ₃ (E)	148	#15	0.61
d ₄ (E)	18	#20	1.34
e ₁ (E)	18	#15	9.35
e ₂ (E)	24	#15	2.92
e ₃ (E)	24	#15	6.50
e ₄ (E)	24	#15	2.62
e ₅ (E)	24	#15	7.65
e ₆ (E)	24	#15	7.30
e ₇ (E)	18	#15	8.93
s ₁ (E)	30	#20	2.68
x ₁ (E)	126	#15	1.28
Concrete Superstructure			m ³ 422.1
Reinforcement Bars (Epoxy Coated)			kg 48,590
Protective Coat			m ² 1590
Bridge Deck Grooving			m ² 960



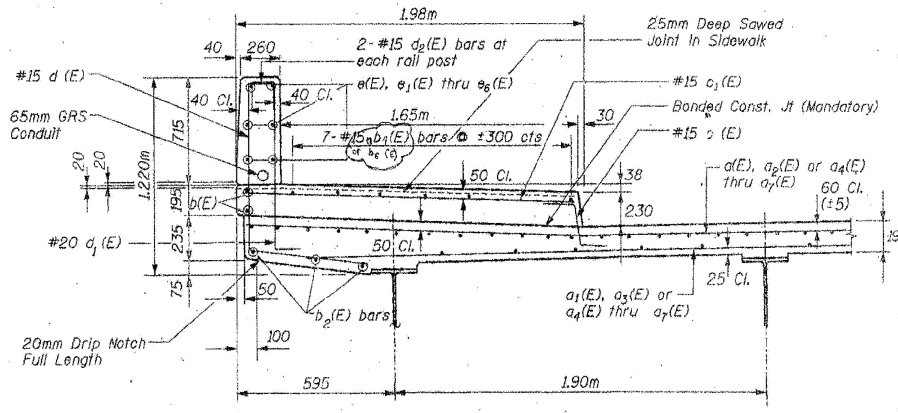
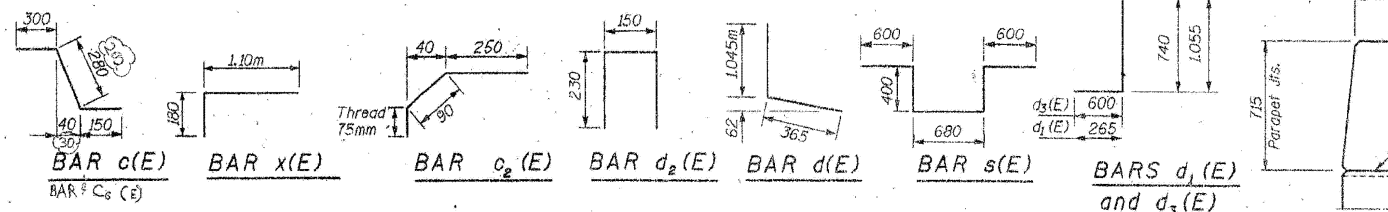
30 mm ϕ ANCHOR BOLT

65mm ϕ GRS Conduit Cast into Parapet each Side of Bridge (Provide Expansion Fittings as Required) For Quantity See Lightings Plans

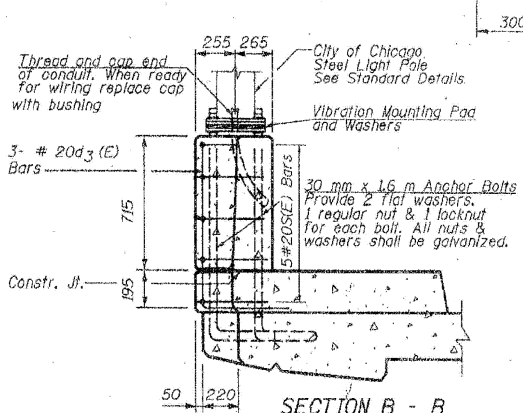


LIGHT POLE PLAN

- Notes:**
- Reinforcement Bars Designated (E) Shall Be Epoxy Coated.
 - For Bridge Fence Railing See Sheet S14.
 - Cost of Furnishing & Installing 30 mm Anchor Bolts Included With Concrete Superstructure.
 - Light Pole Anchor Bolt Locations Shown are for Information only. Verify Location with Light Pole Base Plate.



SECTION THRU SIDEWALK



SECTION B - B

SHAH ENGINEERING, INC.
ONE IBM PLAZA SUITE 3200
CHICAGO, IL 60611
Consulting Engineers

STV INCORPORATED
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
78 W. MADISON ST. CHICAGO, IL 60602-4207

Record Drawing
PARAPET DETAILS
MILWAUKEE AVE. OVER KENNEDY EXPRESSWAY
F.A.I. ROUTE 90 (SECTION 1212 - 1B)
COOK COUNTY
STATION 0+304.799
SN. 016-1107

MODEL: 60 (Sheet) FILE NAME: c:\pwworking\shah\1167770\102825-shr\typical.dgn

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 31: MILWAUKEE AVE OVER I-90 JFK & CTA (SN 016-1107)
EXISTING STRUCTURE DETAILS**

SCALE: SHEET 004 OF 4 SHEETS STA. TO STA.

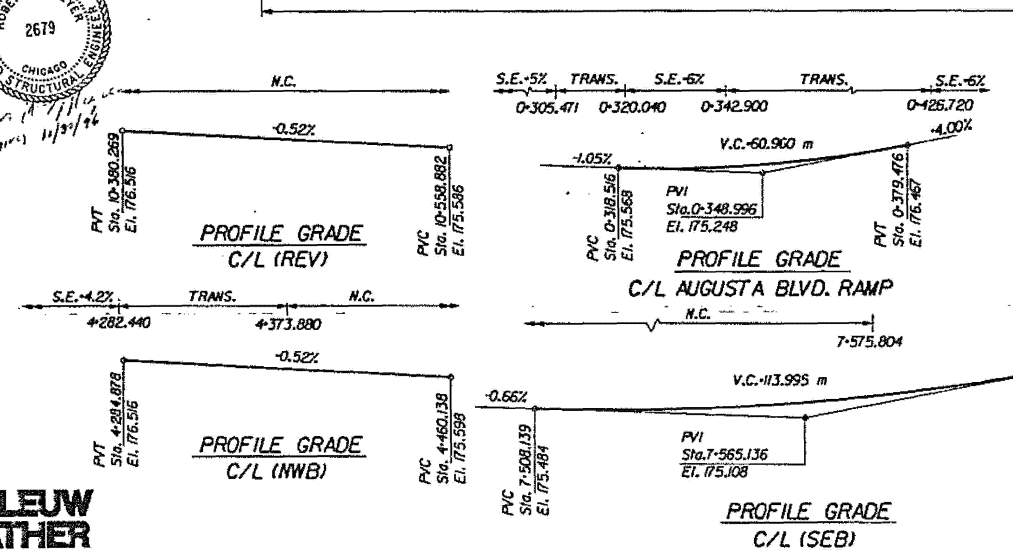
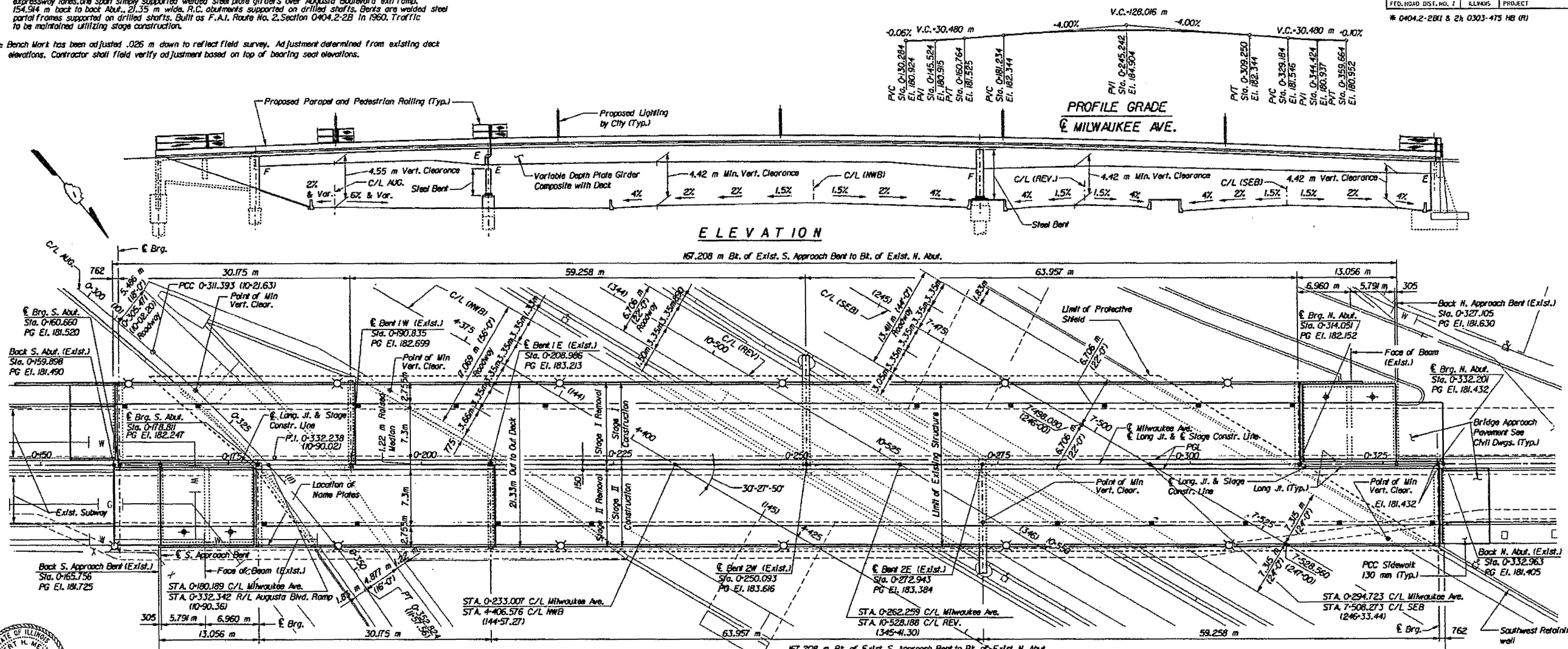
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	140
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

Bench Marks Square cut on N.E. corner of C.T.A. vent shaft, Sta. ± 4+28.3 SEB, ± 16.4 m Rt., Elev. ± 176.487
 Existing Structure S.H. 016-2045, two span continuous welded steel plate girders over expressway lanes, one span simply supported welded steel plate girders over Augusta Boulevard exit ramp, 154.94 m back to back Abut., 21.35 m wide, R.C. abutments supported on drilled shafts. Bents are welded steel portal frames supported on drilled shafts. Built as F.A.I. Route No. 2, Section 0404.2-2B In 1960. Traffic to be maintained utilizing stage construction.

Note: Bench Mark has been adjusted .026 m down to reflect field survey. Adjustment determined from existing deck elevations. Contractor shall field verify adjustment based on top of bearing seat elevations.

ROUTE NO	SECTION	COUNTY	LOCAL DISTRICT	SHEET NO.
FAI 90/94	2	COOK	14-0	30
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
* 0404.2-2B(1) & 2A 0303-475 HB (R)				



LEGEND

- Light Pole
- Existing Conduits
- Proposed Drainage Sump with Enclosed Piping System
- Existing Manhole
- N.C.

Grades: 1.5%, 1.5%, 2%

APPROVED FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
 P.E. OF CIVIL ENGINEERING AND STRUCTURES

CURVE	AUG. RAMP	C-2
Δ	15'-37" 53.3'	
D	11'-30" 0.04'	
R	151.057	
T	20.845	
L	41.431	
LC	41.300	
E	1.423	
P.I. STA.	0+332.238	
P.C. STA.	0+311.393	
P.T. STA.	0+352.824	

STATION 0+262.259
 REBUILT 1992 BY
 STATE OF ILLINOIS
 F.A.I. RT. 90/94 SEC 212.1 BR
 F.A. PROJ. BHT- 94-2 (241)-49
 LOADING MS18
 STR. NO. 016-2045

Existing name plates to be cleaned and relocated adjacent to new name plate. Cost Is Included In pay Item Name Plates. See Dwg. No. S-13.

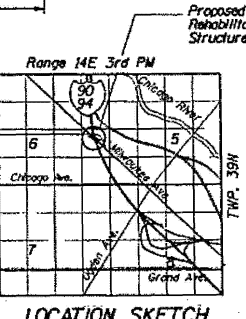
NAME PLATE
 (See Std. 2113)

DESIGN SPECIFICATIONS
 1992 AASHTO, with 1993, 1994, & 1995 Interim specification and Guide Specification for Steel Fatigue Evaluation of Existing Bridge, 1990.

DESIGN STRESSES
 f_c = 24 MPa
 f_y = 400 MPa (Reinf.)
 f_s = 124 MPa (Existing Structural Steel)
 f_s = 138 MPa (Proposed Structural Steel M270 Gr. 250)

SEISMIC DATA
 Seismic Performance Category (SPC) - A
 Deadrock Acceleration Coefficient (A)=0.038g
 Site Coefficient (S)=1.2

LOADING MS18
 Allow 1.2 kN/m² for future wearing surface



NOTES:
 Stations and dimensions in parentheses, l, are in feet units.
 For Total Bill of Material and General Notes See Dwg. No. S-2.

KENNEDY RECONSTRUCTION PROJECT		DATE
ILLINOIS DEPARTMENT OF TRANSPORTATION		JOB NO. 669502
MILWAUKEE AVENUE OVER KENNEDY EXPRESSWAY		DESIGNED JJI
F.A.I. 90/94 SECTION 1212.1 BR SN 016-2045		DRAWN FTE
COOK COUNTY STA. 0+262.259		CHECKED RAM
DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS		APPROVED RFH
		SCALE
		DRAWING NO. S-1

DeLEUW CATHER

MODEL: 51 (Sheet)
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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

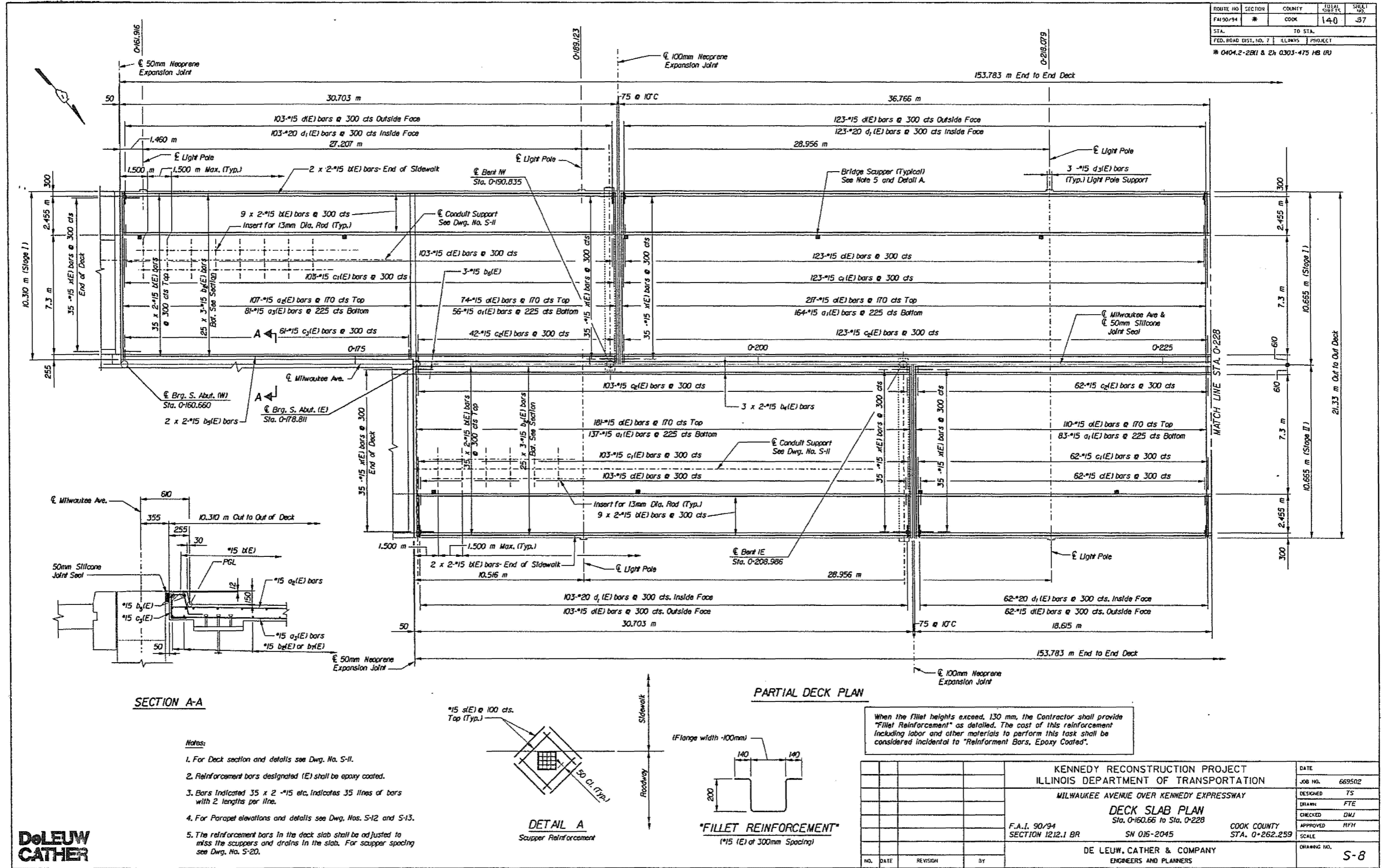
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION 32: MILWAUKEE AVE OVER I-90/94 JFK (SN 016-2045) EXISTING STRUCTURE DETAILS

SCALE: SHEET 001 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	141
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA190/94	*	COOK	140	37
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
* 0404.2-2B1 & 2x 0303-175 HB (R)				

**DELEUW
CATHER**

KENNEDY RECONSTRUCTION PROJECT		DATE
ILLINOIS DEPARTMENT OF TRANSPORTATION		JOB NO. 669502
MILWAUKEE AVENUE OVER KENNEDY EXPRESSWAY		DESIGNED TS
DECK SLAB PLAN		DRAWN FTE
Sta. 0+160.66 to Sta. 0+228		CHECKED DMJ
F.A.I. 90/94	SN 016-2045	APPROVED RFH
SECTION 1212.1 BR	COOK COUNTY	SCALE
	STA. 0+262.259	
DE LEUW, CATHER & COMPANY		DRAWING NO.
ENGINEERS AND PLANNERS		S-8

MODEL: S2 (Sheet) FILE NAME: c:\ew\work\mdd\data\16177\102225-shl-typical.dgn

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

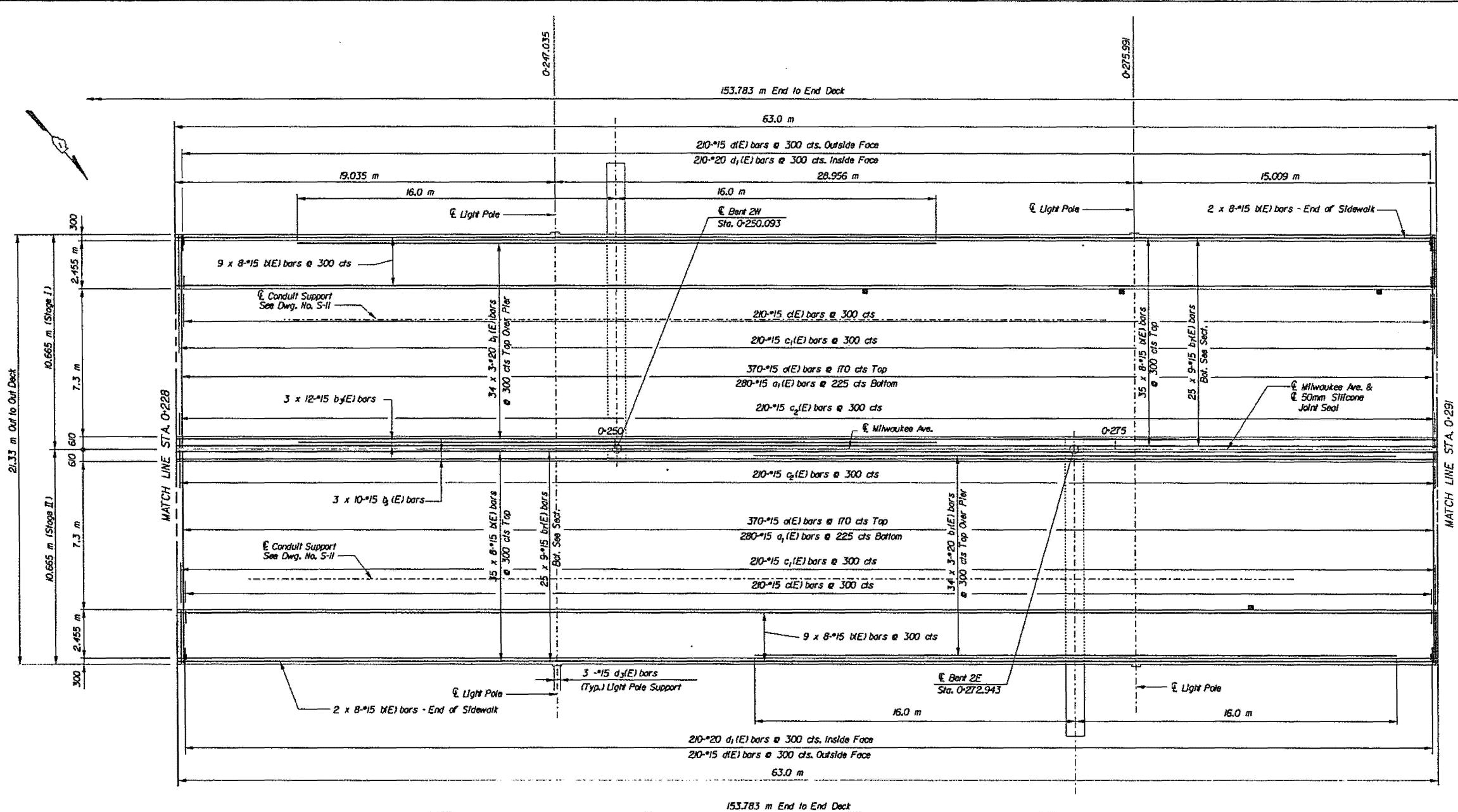
LOCATION 32: MILWAUKEE AVE OVER I-90/94 JFK (SN 016-2045)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 002 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	142
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 90/94	*	COOK	140	38
STA.	TO STA.			
F.L.D. ROAD DIST. NO. 7 ILLINOIS PROJECT				
* 0404.2-281 & 2h 0303-475 HB (U)				



PARTIAL DECK PLAN

Note:
Existing Manhole located near Bent 2W in roadway to be removed and reinstalled as directed by the Engineer. Cost Incidental to Concrete Superstructure.

- Notes:**
1. For Deck section and details see Dwg. No. S-11.
 2. Reinforcement bars designated (E) shall be epoxy coated.
 3. Bars Indicated 35 x 2 -#15 etc. Indicates 35 lines of bars with 2 lengths per line.
 4. For Parapet elevations and details see Dwg. Nos. S-12 and S-13.
 5. The reinforcement bars in the deck slab shall be adjusted to miss the scuppers and drains in the slab.



KENNEDY RECONSTRUCTION PROJECT		DATE
ILLINOIS DEPARTMENT OF TRANSPORTATION		JOB NO. 669502
MILWAUKEE AVENUE OVER KENNEDY EXPRESSWAY		DESIGNED TS
DECK SLAB PLAN		DRAWN FTE
Sta. 0+228 to Sta. 0+291		CHECKED DMJ
F.A.I. 90/94	SN 016-2045	APPROVED RFF
SECTION 1212.1 BR	COOK COUNTY	SCALE
	STA. 0+262.259	DRAWING NO.
DE LEUW, CATHER & COMPANY		5-9
ENGINEERS AND PLANNERS		

MODEL: 53 (Sheet)
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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

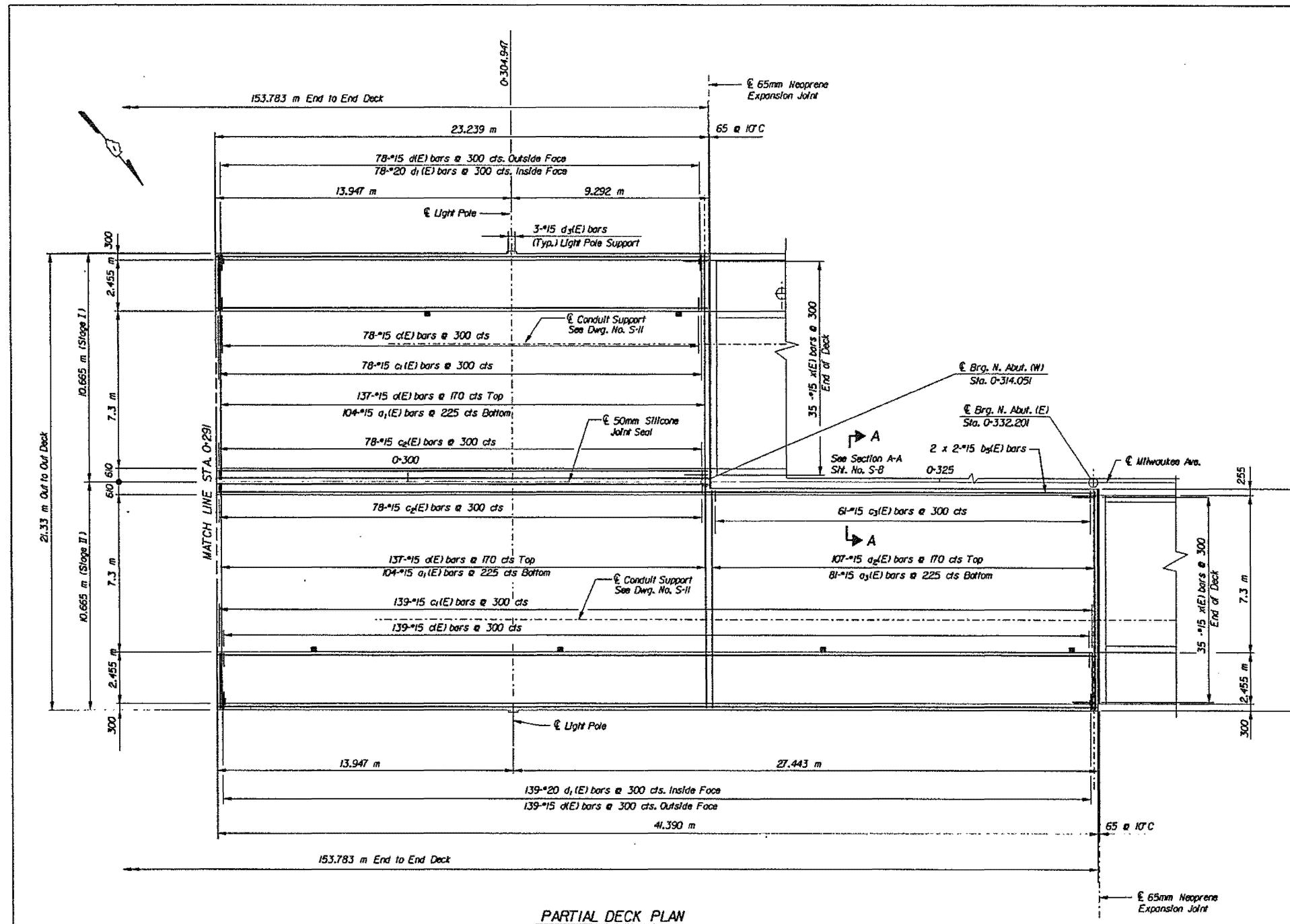
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 32: MILWAUKEE AVE OVER I-90/94 JFK (SN 016-2045)
EXISTING STRUCTURE DETAILS

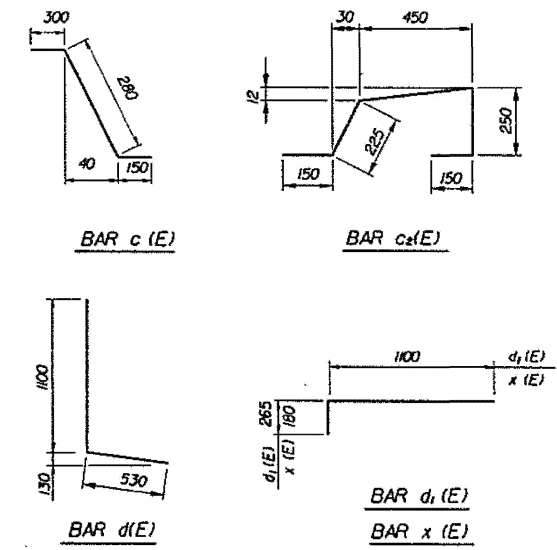
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	143
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 003 OF 7 SHEETS STA. TO STA.

FOR INFORMATION ONLY



ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F4190/94	#	COOK	140	39
STA.	TO STA.			
	FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT
* 0404.2-2B1 & 2A 0301-415 HB (R)				



BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
a (E)	162	#15	10.50	
a1(E)	1208	#15	10.20	
ag(E)	214	#15	10.25	
ay(E)	162	#15	10.00	
b (E)	920	#15	15.80	
b1(E)	204	#20	11.10	
bg(E)	150	#15	10.60	
by(E)	66	#15	10.80	
bz(E)	6	#15	15.60	
Dg(E)	8	#15	9.60	
bd(E)	3	#15	12.45	
bt(E)	450	#15	14.20	
c (E)	1028	#15	0.73	
c1(E)	1028	#15	2.60	
cg(E)	906	#15	1.23	
cs (E)	122	#15	0.90	
d (E)	1028	#15	1.63	
di(E)	1028	#20	1.37	
ds(E)	33	#15	1.17	
s (E)	152	#15	0.63	
x (E)	280	#15	1.28	
Concrete Superstructures		m ³	968.8	
Reinforcement Bars, Epoxy Coated		kg	108050	
Bridge Deck Grooving		m ²	2058	
Protective Coat		m ²	1045	

Reinforcement bars designated (E) shall be epoxy coated.

- Notes:**
- For Deck section and details see Dwg. No. S-11.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - Bars indicated 35 x 2 #15 etc. indicates 35 lines of bars with 2 lengths per line.
 - For Parapet elevations and details see Dwg. Nos. S-12 and S-13.
 - The reinforcement bars in the deck slab shall be adjusted to miss the scuppers and drains in the slab.

**DE LEUW
CATHER**

KENNEDY RECONSTRUCTION PROJECT		DATE
ILLINOIS DEPARTMENT OF TRANSPORTATION		JOB NO. 669502
MILWAUKEE AVENUE OVER KENNEDY EXPRESSWAY		DESIGNED TS
DECK SLAB PLAN		DRAWN FTE
Sta. 0+291 to Sta. 0+332.201		CHECKED DHJ
F.A.I. 90/94	COOK COUNTY	APPROVED RFFH
SECTION 1212.1 BR	SN 016-2045	SCALE
DE LEUW, CATHER & COMPANY		DRAWING NO. S-10
ENGINEERS AND PLANNERS		

MODEL: E4 (Sheet) FILE NAME: C:\p\work\widow\bridge\167770\102825-shr-hypcal.dgn

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

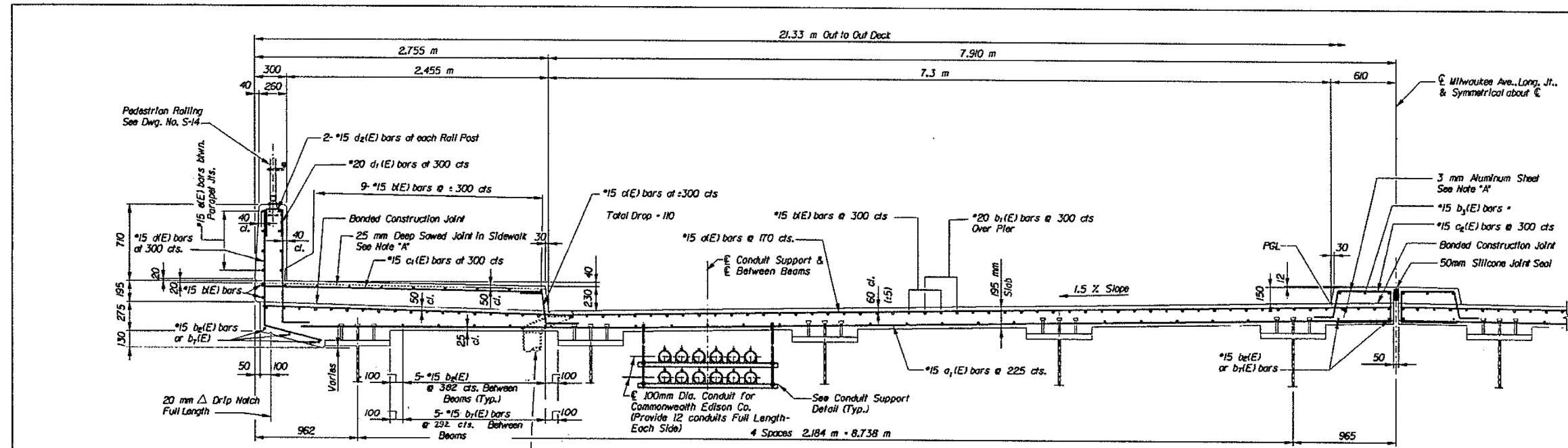
**LOCATION 32: MILWAUKEE AVE OVER I-90/94 JFK (SN 016-2045)
EXISTING STRUCTURE DETAILS**

SCALE: SHEET 004 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	144
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

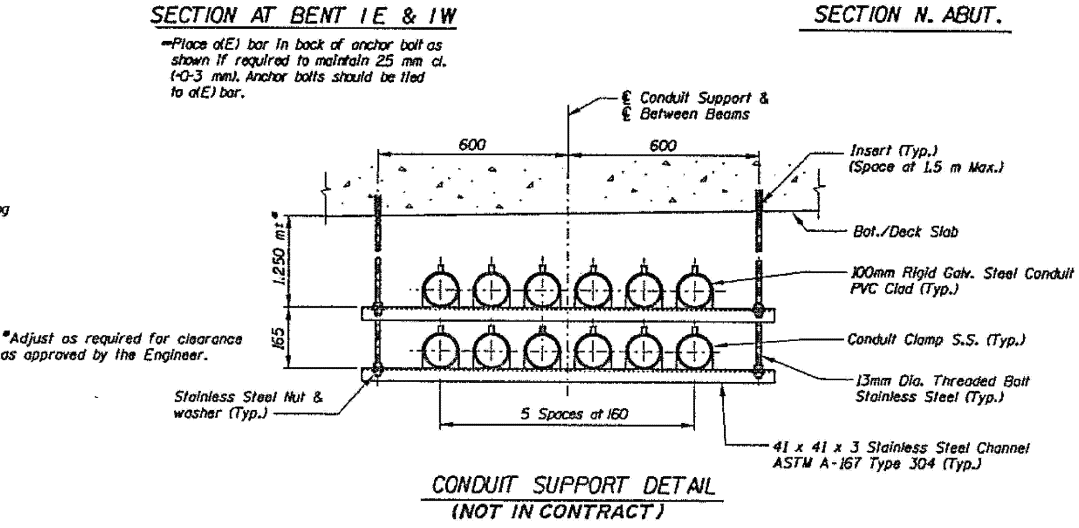
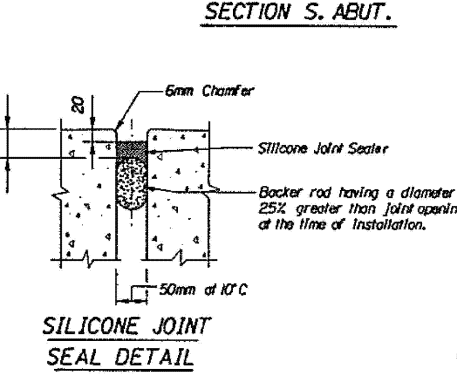
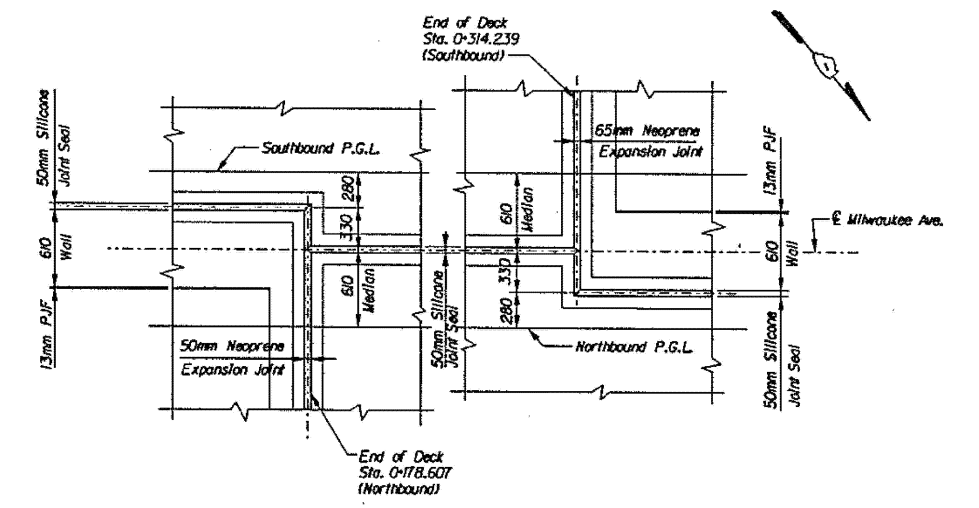
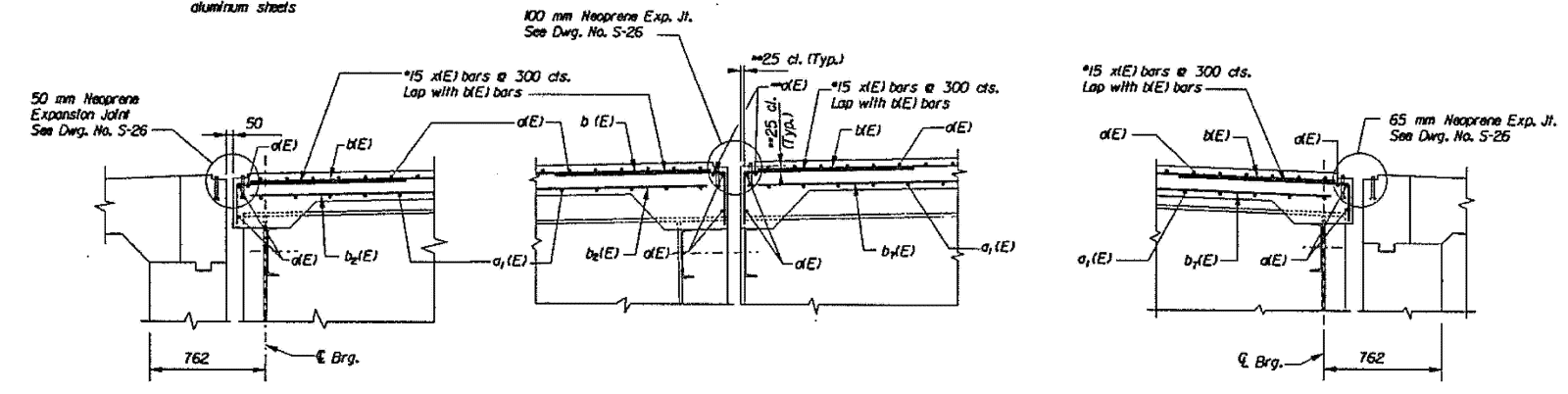
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 90/94	#	COOK	140	40
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ELMWOOD	PROJECT		



NOTE:
1. Lap #15 bars 510 mm
Lap #20 bars 640 mm

NOTE: Reinforcement bars designated (E) shall be epoxy coated
b1(E) bars shall not pass thru aluminum sheets

NOTE "A": At Bent 2E and 2W and at H.O. m either side of Bents 2E & 2W.



NOTE:
Existing Com. Ed. conduits are to be maintained in place and temporarily supported by Com. Ed. & Co. Com. Ed. will supply and locate inserts for conduit supports. The Contractor shall install all inserts as located.

BILL OF MATERIAL

Item	Unit	Qty
Neoprene Expansion Joint 50 mm	m	21.8
Neoprene Expansion Joint 65 mm	m	21.8
Neoprene Expansion Joint 100 mm	m	21.8
Silicone Joint Sealer	m	172.0

**DeLEUW
CATHER**

KENNEDY RECONSTRUCTION PROJECT ILLINOIS DEPARTMENT OF TRANSPORTATION MILWAUKEE AVENUE OVER KENNEDY EXPRESSWAY			DATE
DECK SECTION AND DETAILS			JOB NO. 669502
F.A.I. 90/94 SECTION 1212.1 BR SN 016-2045 COOK COUNTY STA. 0+262.259			DESIGNED TS
DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS			DRAWN FTE
			CHECKED DMJ
			APPROVED RFH
			SCALE
			DRAWING NO. S-11

MODEL: 65 (Sheet) FILE NAME: c:\pwworking\dwg\1167770102925-shr.typical.dwg

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

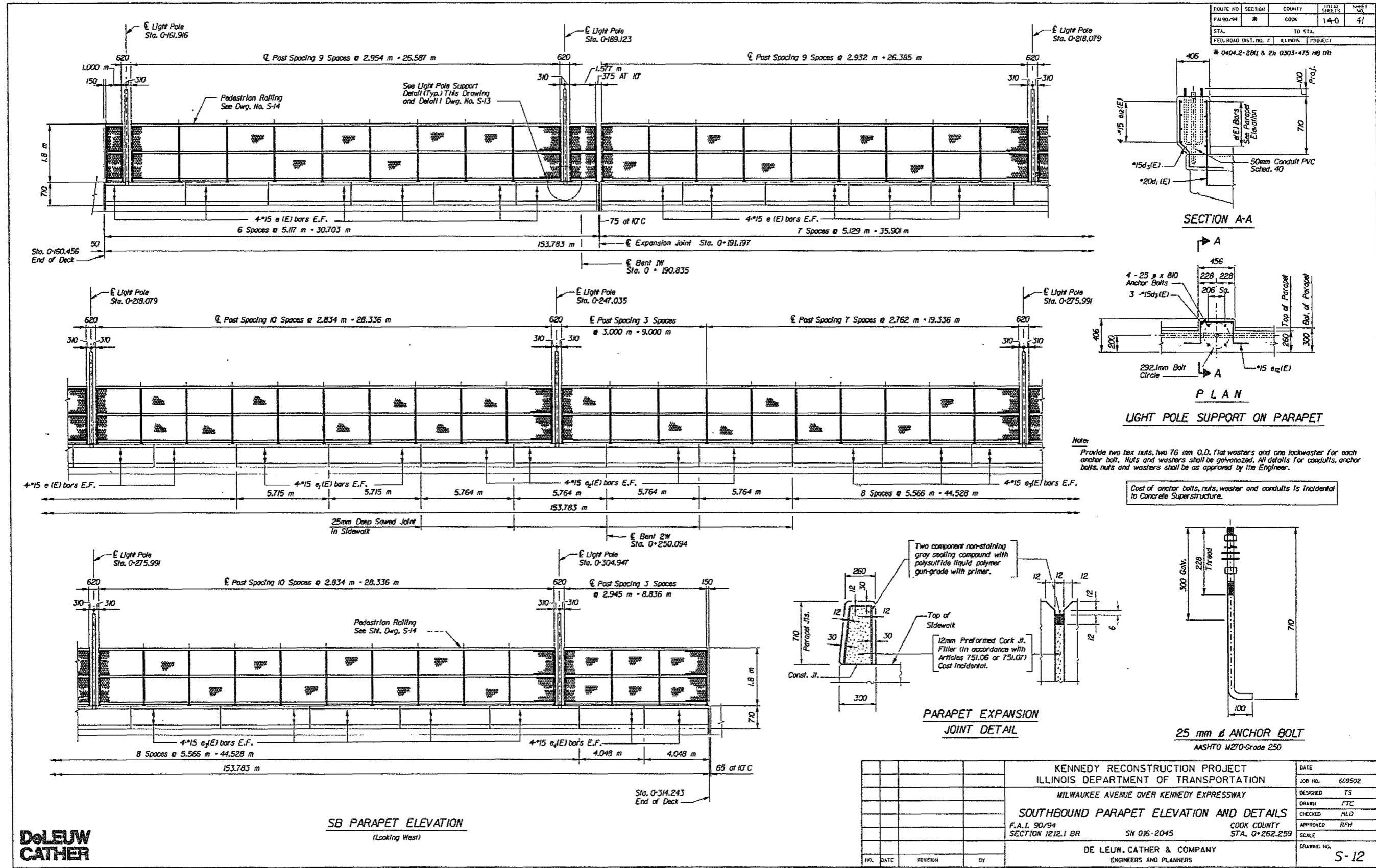
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 32: MILWAUKEE AVE OVER I-90/94 JFK (SN 016-2045)
EXISTING STRUCTURE DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	145
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 005 OF 7 SHEETS STA. TO STA.

FOR INFORMATION ONLY



**DeLEUW
CATHER**

SB PARAPET ELEVATION
(Looking West)

KENNEDY RECONSTRUCTION PROJECT ILLINOIS DEPARTMENT OF TRANSPORTATION MILWAUKEE AVENUE OVER KENNEDY EXPRESSWAY SOUTHBOUND PARAPET ELEVATION AND DETAILS F.A.I. 90/94 SECTION 1212.1 BR SN 016-2045 COOK COUNTY STA. 0+262.259			DATE JOB NO. 669502 DESIGNED TS DRAWN FTE CHECKED RLD APPROVED RFH SCALE
DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS			DRAWING NO. S-12

MODEL: 56 (Sheet) FILE NAME: c:\pwworking\dwg\diaz\161777\1012925-sh1-typical.dgn

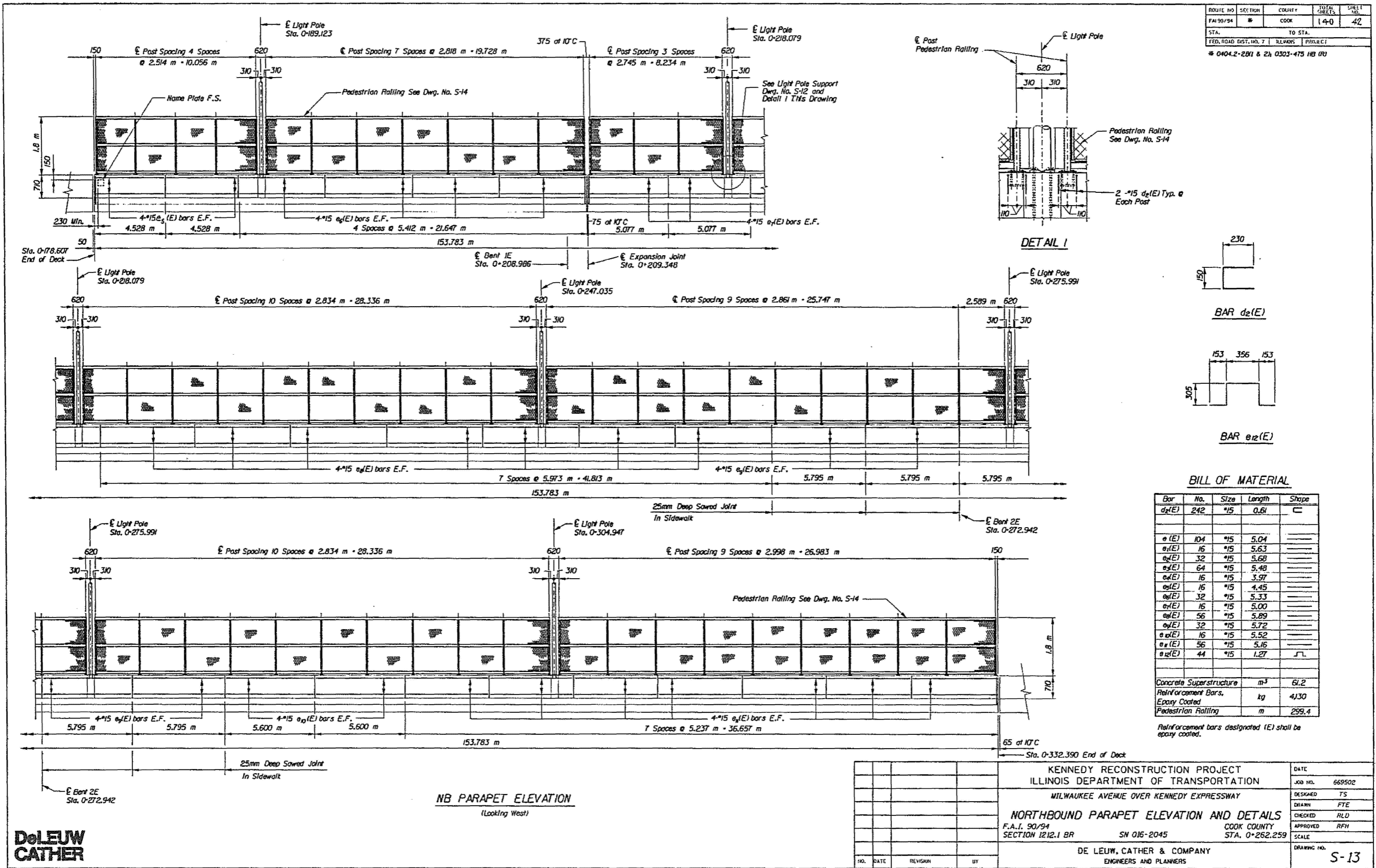
USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 32: MILWAUKEE AVE OVER I-90/94 JFK (SN 016-2045)
EXISTING STRUCTURE DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	146
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



MODEL: 57 (Sheet)
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**DE LEUW
CATHER**

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

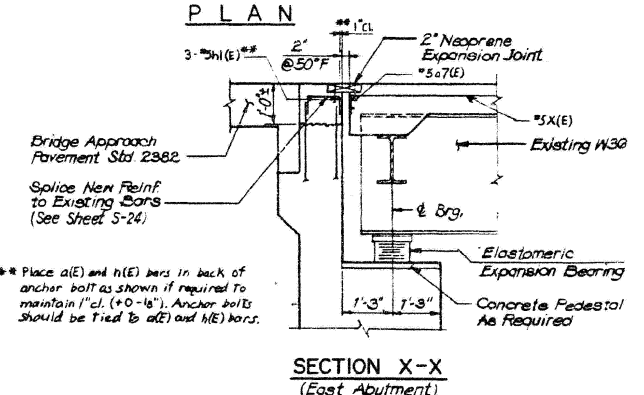
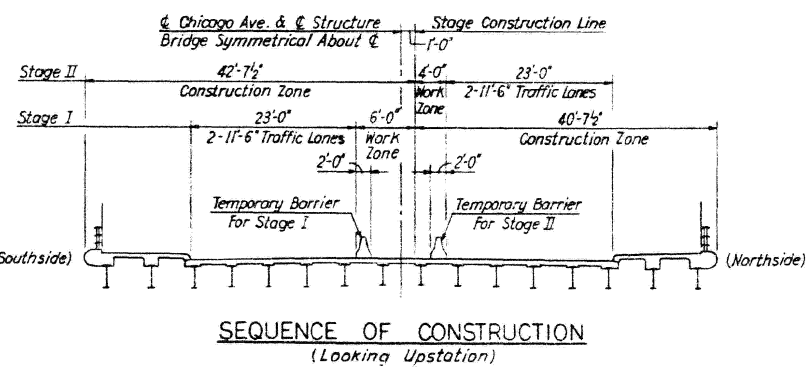
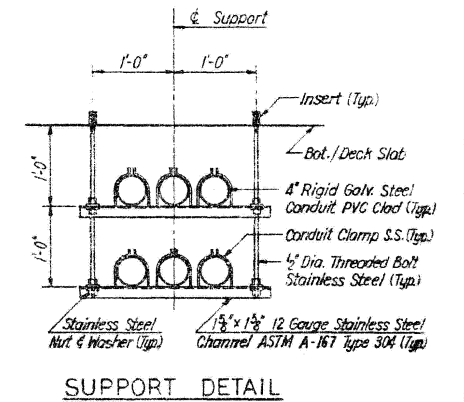
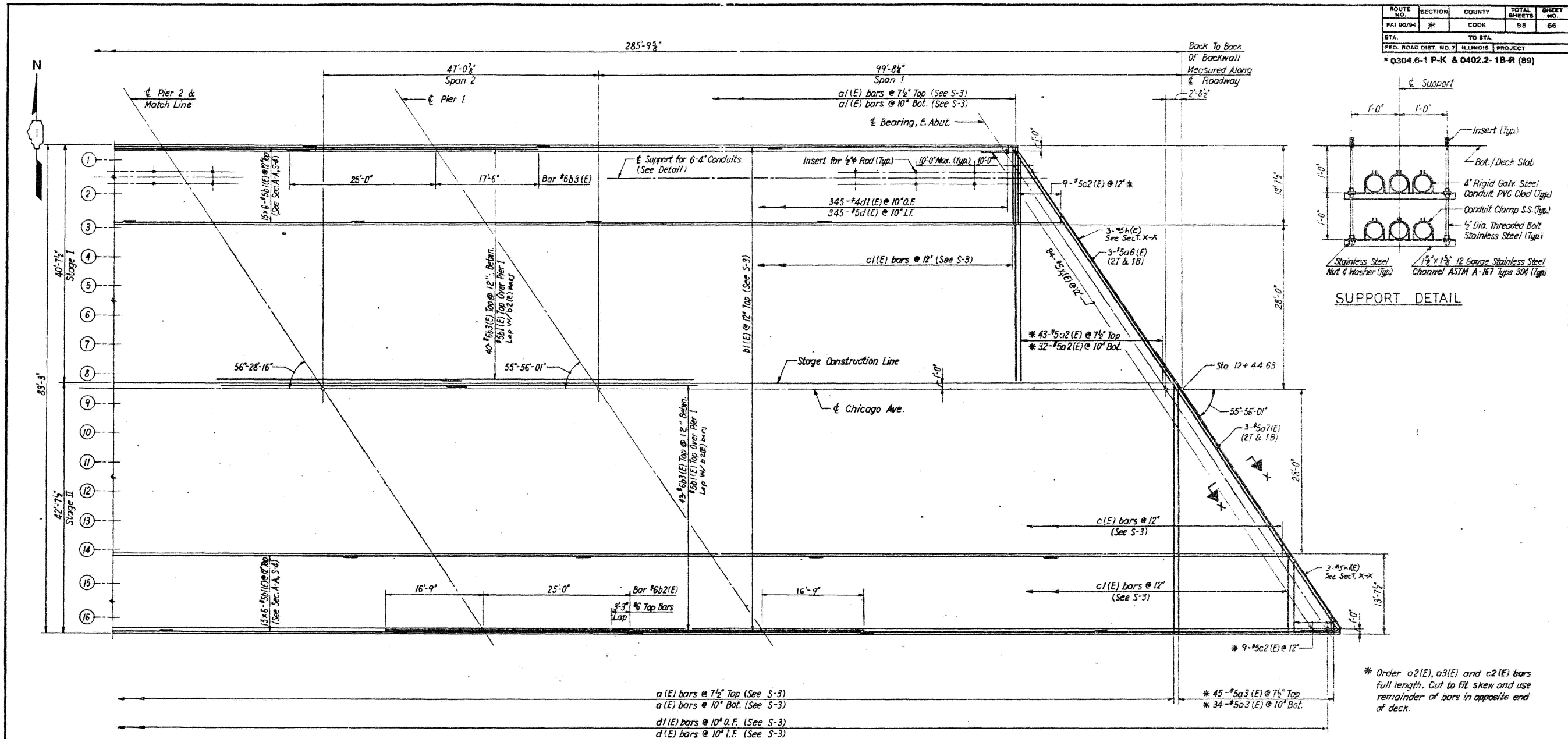
LOCATION 32: MILWAUKEE AVE OVER I-90/94 JFK (SN 016-2045)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 007 OF 7 SHEETS STA. TO STA.

F.A. RTE. VAR.	SECTION 2024-1009-BDS	COUNTY COOK	TOTAL SHEETS 192	SHEET NO. 147
ILLINOIS FED. AID PROJECT				CONTRACT NO. 62X44

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 90/94	1*	COOK	98	66
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
* 0304.6-1 P-K & 0402.2-1B-R (89)				



NOTES:
 The concrete, for bridge floors finished in accordance with Article 503.15 of the Standard Specifications, shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The finishing machine, when required, shall be set parallel to the skew for striking off and screeding the concrete.
 See Sheet S-4 for Superstructure Details and Bill of Material.
 Reinforcement bars designated (E) shall epoxy coated.
 Bars indicated thus 15x6-15, indicates 15 lines of bars with 6 lengths per line.
 See Sheet S-4 for parapet reinforcement.
 Minimum lap splices shall be 2'-2" for #5 bar and 2'-9" for #6 bar, except as noted otherwise.

KENNEDY RECONSTRUCTION PROJECT ILLINOIS DEPARTMENT OF TRANSPORTATION			DATE	01/90
			JOB NO.	P03978
CHICAGO AVENUE BRIDGE DECK SLAB PLAN - EAST HALF			DESIGNED	TS
			DRAWN	M.M.S.
FAI 90/94 SEC. 0404.2-1B-R (89)			CHECKED	EHL
			APPROVED	EHL
DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS			SCALE	
			DRAWING NO.	S-2

**DeLEUW
CATHER**

MODEL: 59 (Sheet)
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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/14/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

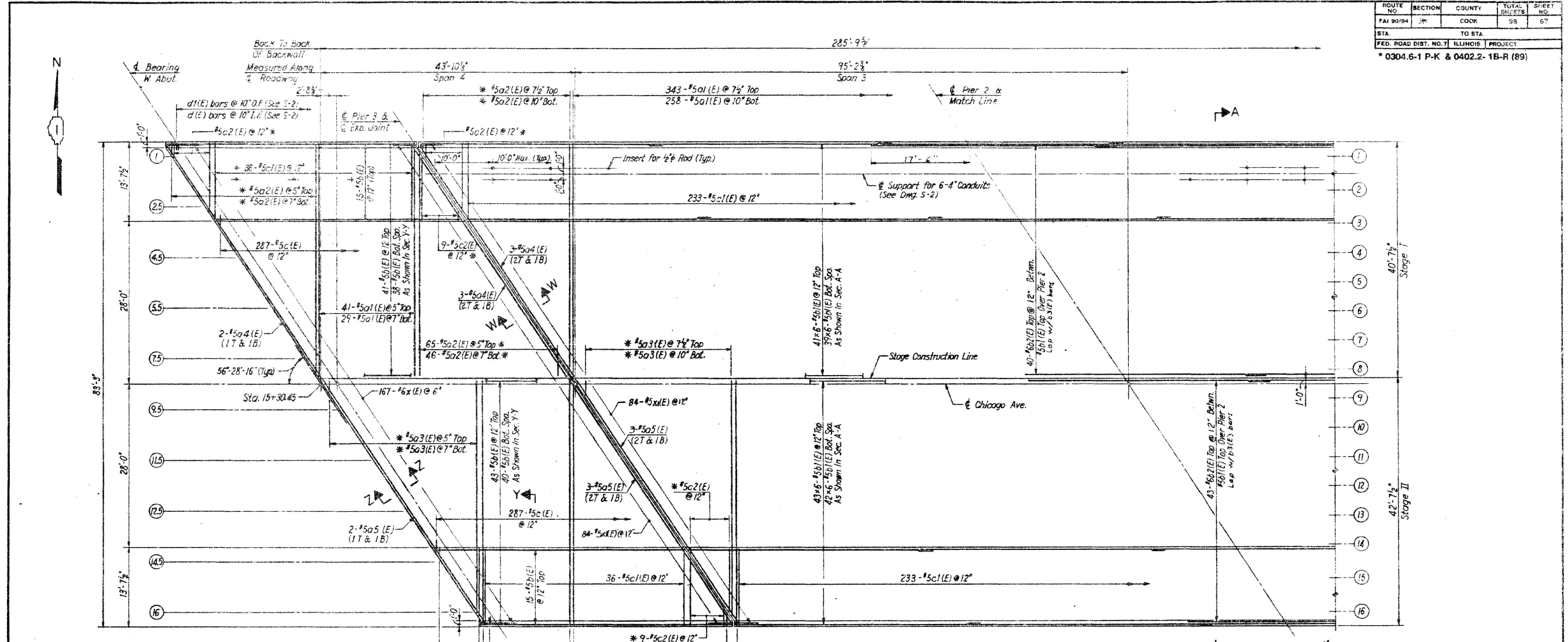
**LOCATION 33: CHICAGO AVE OVER I-90/94 JFK (SN 016-2046)
EXISTING STRUCTURE DETAILS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	149
SCALE				CONTRACT NO. 62X44
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 002 OF 4 SHEETS STA. TO STA.

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 90/94	2	COOK	98	67
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT		
* 0304.6-1 P-K & 0402.2-1B-R (89)				



NOTES:

The concrete, for bridge floors finished in accordance with Article 503.15 of the Standard Specifications, shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The finishing machine, when required, shall be set parallel to the skew for striking off and screeding the concrete.

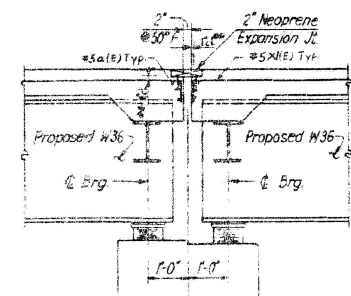
See Sheet S-4 for Superstructure Details and Bill of Material.

Reinforcement bars designated (E) shall be epoxy coated.

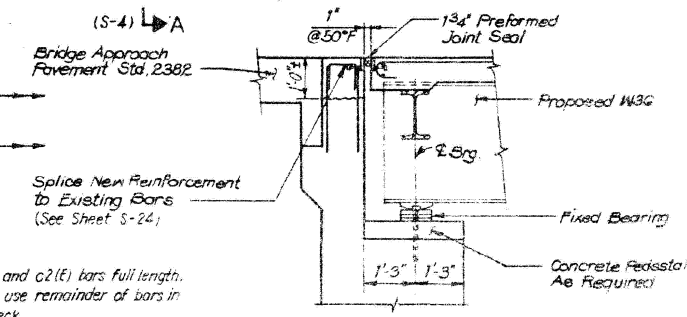
Bars indicated thus 15x6-#5, indicates 15 lines of bars with 6 lengths per line.

See Sheet S-4 for parapet reinforcement.

Minimum lap splices shall be 2'-2\"/>



SECTION W-W



SECTION Z-Z (West Abutment)

BILL OF MATERIAL		
ITEM	UNIT	QTY.
Glass 'X' Concrete Superstructure	Cu Yd.	112.0
Reinforcement Bars, Epoxy Coated	Pounds	156,960
Neoprene Expansion Joint	Lin. Ft.	202

**DELEUW
CATHER**

KENNEDY RECONSTRUCTION PROJECT ILLINOIS DEPARTMENT OF TRANSPORTATION				DATE	01/90
				JOB NO.	P0397B
CHICAGO AVENUE BRIDGE DECK SLAB PLAN - WEST HALF				DESIGNED	JT
				DRAWN	MME
FAI 90/94 SEC. 0404.2-1B-R (89)				CHECKED	EHL
				APPROVED	EHL
DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS				SCALE	
				DRAWING NO.	S-3

MODEL: 60 (Sheet)
FILE NAME: c:\pw\work\wtd\diaz\116770\102925-shs-typical.dgn

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

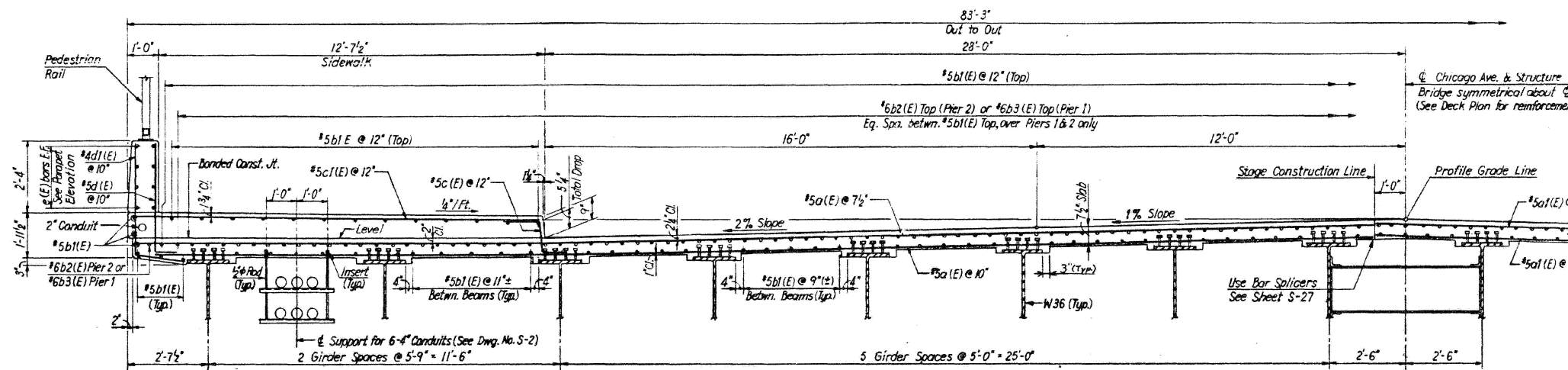
LOCATION 33: CHICAGO AVE OVER I-90/94 JFK (SN 016-2046)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 003 OF 4 SHEETS STA. TO STA.

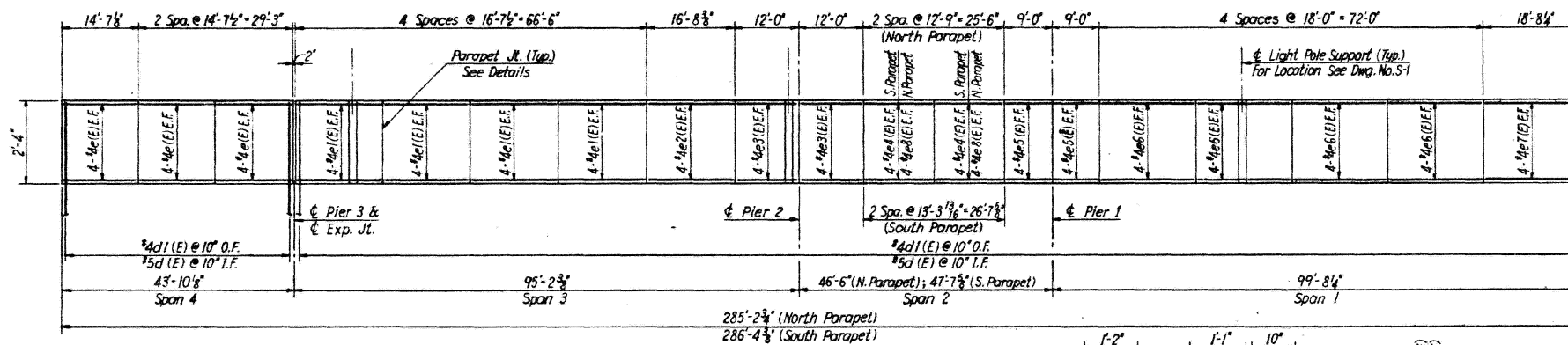
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VAR.	2024-1009-BDS	COOK	192	150
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 90/94	#	COOK	96	66
STA.	TO STA.	FED. ROAD DIST. NO. 71 ILLINOIS PROJECT		
* 0304.6-1 P-K & 0402.2-1B-R (89)				



SECTION A - A
(Spans 1, 2 & 3) (S-3)

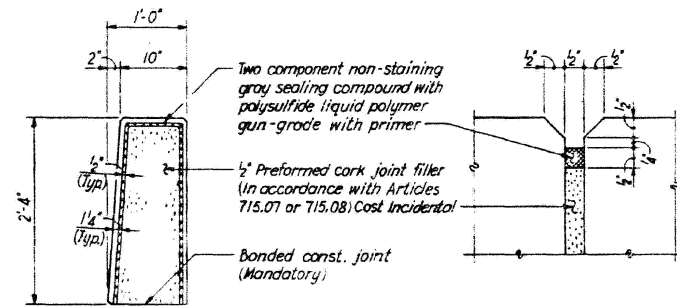


OUTSIDE ELEVATION - SOUTH PARAPET
(Inside Elevation - North Parapet Similar)

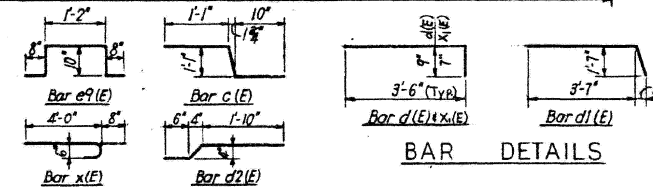
STATION 333+60.59
REBUILT 199 BY
STATE OF ILLINOIS
SEC. 0404.2-1B-R(89)
F.A. PROJ. 1R-94-2(175)49
LOADING HS 20
STR. NO. 016-2046

Clean and remove existing
Name Plate adjacent to new
Name Plate. Cost shall
be incidental to pay item:
Name Plates.

NAME PLATE
(See Std. 2113)



DETAILS OF PARAPET JOINT

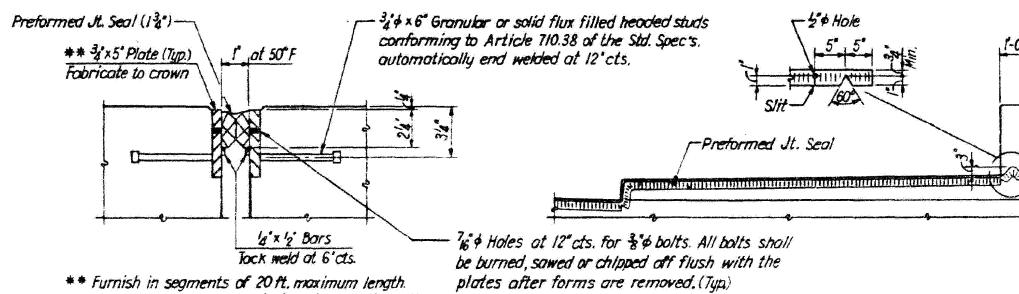


BAR CUTTING
DIAGRAMS

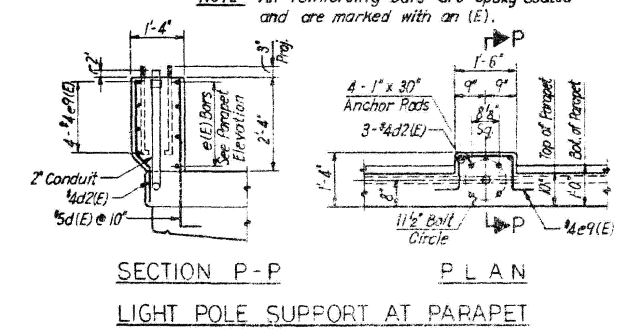
BAR DETAILS

BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
a1(E)	665	#5	22'-4"	---
a1(E)	671	#5	40'-2"	---
a2(E)	186	#5	21'-6"	---
a3(E)	195	#5	43'-6"	---
a4(E)	8	#5	48'-6"	---
a5(E)	8	#5	50'-10"	---
a6(E)	3	#5	48'-9"	---
a7(E)	3	#5	51'-2"	---
x(E)	167	#5	4'-8"	---
x(E)	252	#5	4'-1"	---
h(E)	3	#5	47'-6"	---
h1(E)	3	#5	50'-2"	---
b(E)	192	#5	42'-4"	---
b1(E)	1170	#5	42'-2"	---
b2(E)	83	#5	41'-9"	---
b3(E)	83	#6	42'-6"	---
c(E)	574	#5	3'-0"	---
c1(E)	538	#5	13'-4"	---
c2(E)	36	#5	13'-10"	---
d(E)	690	#5	4'-3"	---
d1(E)	690	#4	5'-2"	---
d2(E)	18	#4	2'-10"	---
e(E)	48	#4	14'-3"	---
e1(E)	64	#4	16'-3"	---
e2(E)	16	#4	16'-4"	---
e3(E)	32	#4	11'-8"	---
e4(E)	16	#4	13'-0"	---
e5(E)	32	#4	8'-8"	---
e6(E)	64	#4	17'-8"	---
e7(E)	16	#4	18'-4"	---
e8(E)	16	#4	12'-5"	---
e9(E)	24	#4	4'-2"	---

NOTE: All reinforcing bars are epoxy coated and are marked with an (E).



DETAILS OF FIXED JOINT
(West Abutment)



SECTION P - P
PLAN
LIGHT POLE SUPPORT AT PARAPET

DeLEUW
CATHER

KENNEDY RECONSTRUCTION PROJECT		DATE
ILLINOIS DEPARTMENT OF TRANSPORTATION		01/90
CHICAGO AVENUE BRIDGE		JOB NO. P03978
DECK SECTIONS AND DETAILS		DESIGNED TC
FAI 90/94		DRAWN mms
SEC. 0404.2-1B-R (89)		CHECKED ENL
COOK COUNTY		APPROVED EHL
STA. 333+60.59		SCALE
DE LEUW, CATHER & COMPANY		DRAWING NO.
ENGINEERS AND PLANNERS		S-4

USER NAME	DESIGNED	REVISED
Ivan.diaz	-	-
	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 33: CHICAGO AVE OVER I-90/94 JFK (SN 016-2046)
EXISTING STRUCTURE DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	151

SCALE: SHEET 004 OF 4 SHEETS STA. TO STA.

CONTRACT NO. 62X44
ILLINOIS FED. AID PROJECT

MODEL: 61 (Sheet)
FILE NAME: c:\dw\work\pawid\04022-1B-R-016-2046-sht-typical.dgn

FOR INFORMATION ONLY

T.B.M.: Square cut on N.W. corner of traffic signal box. FND R35, East of North end of retaining wall of Ogden entrance ramp. Elev. = 177.043 m

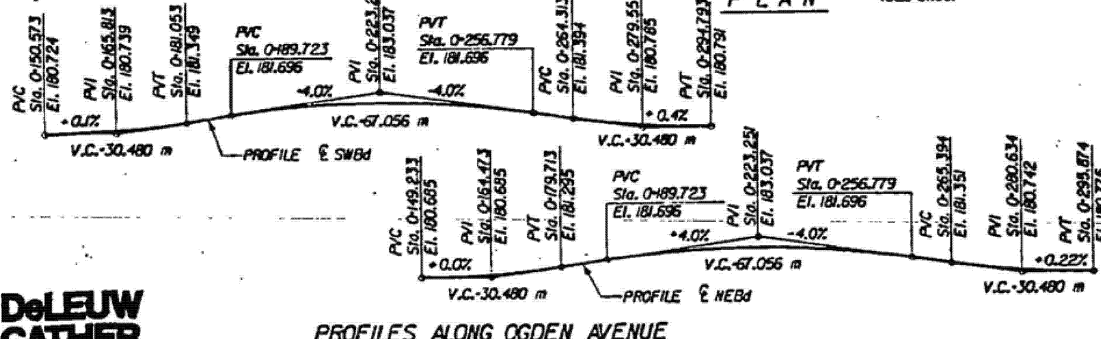
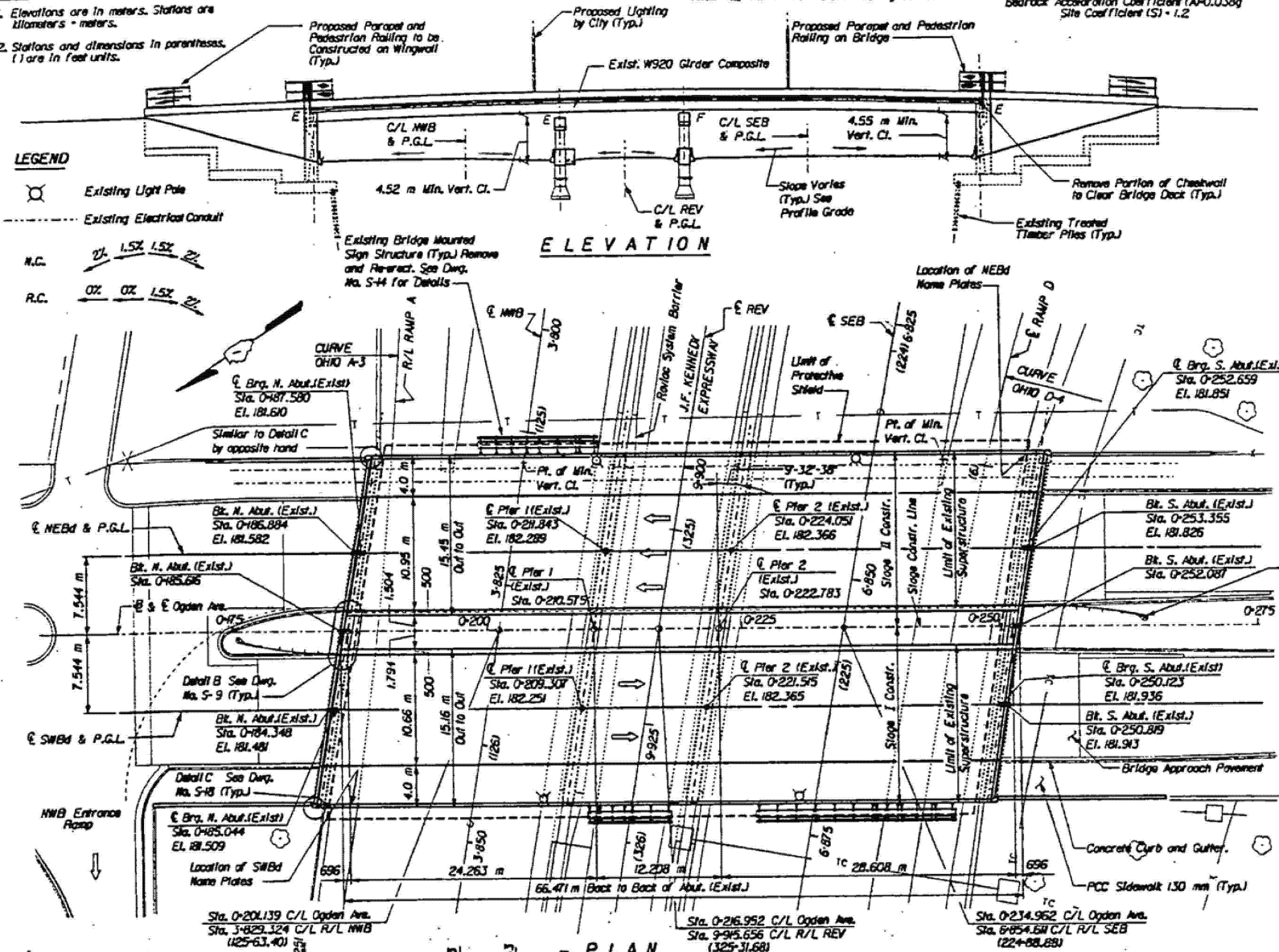
Existing Structure: Sta. 9+915.656 Rev., Sec. 0303.2-1B-R, Structure No. 016-2047 SW & 016-2049 NE. Superstructure: dual three span, continuous, wide flange beam non-composite. Reinforced concrete deck with 64 mm bituminous concrete surface course. Substructure: cantilever abutments and wingwalls supported on timber piles. Multi-column piers supported on drilled shafts.

NOTES:

- Elevations are in meters. Stations are kilometers + meters.
- Stations and dimensions in parentheses () are in feet units.

LEGEND

- Existing Light Pole
- Existing Electrical Conduit
- N.C. (North-Center) symbol
- R.C. (Right-Of-Way) symbol



DESIGN SPECIFICATIONS

1992 AASHTO, with 1993, 1994 & 1995 Interim specifications

LOADING MS18

Allow 1.2 kN/m² for future wearing surface

DESIGN STRESSES

f_c = 24 MPa
f_y = 400 MPa (Reinf.)
f_s = 125 MPa (Existing Structural Steel)

SEISMIC DATA

Seismic Performance Category (SPC) - A
Bedrock Acceleration Coefficient (A₀) = 0.03g
Site Coefficient (S₁) = 1.2

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Reinforcement Bars, Epoxy Coated	kg	72,385	3,470	75,855
Removal of Existing Concrete Deck	Each	2	-	2
Protective Coat	m ²	788	61	849
Concrete Removal	m ³	-	28.2	28.2
Concrete Superstructure	m ³	673.4	-	673.4
Concrete Structures	m ³	-	15.7	15.7
Name Plate	Each	2	-	2
Preformed Joint Seal 102mm	m	63.0	-	63.0
Elastomeric Bearing Assembly, Type I	Each	-	40	40
Protective Shield	m ²	2,210	-	2,210
Jack and Remove Existing Bearings	Each	-	29	29
Bridge Deck Grooving	m ²	1,345	-	1,345
Stud Shear Connectors	Each	9,780	-	9,780
Remove and Re-rack Bridge Mounted Signs	Each	3	-	3
High Performance Enhanced Shotcrete	m ³	-	16.5	16.5
Epoxy Crack Sealing	m	-	11.8	11.8
Bridge Handrail Removal	m	-	72.3	72.3
Pedestrian Rolling	m	262.8	69.6	332.4
Cleaning and Painting Steel Bridge	L Sum	0.88	-	0.88
Power Tool Cleaning Residue Containment and Disposal	L Sum	0.88	-	0.88
Blasting Residue Containment and Disposal	L Sum	0.88	-	0.88
Furnishing of Existing Structural Steel	Kg	15,516	-	15,516
Structural Steel Removal	Kg	7720	-	7720

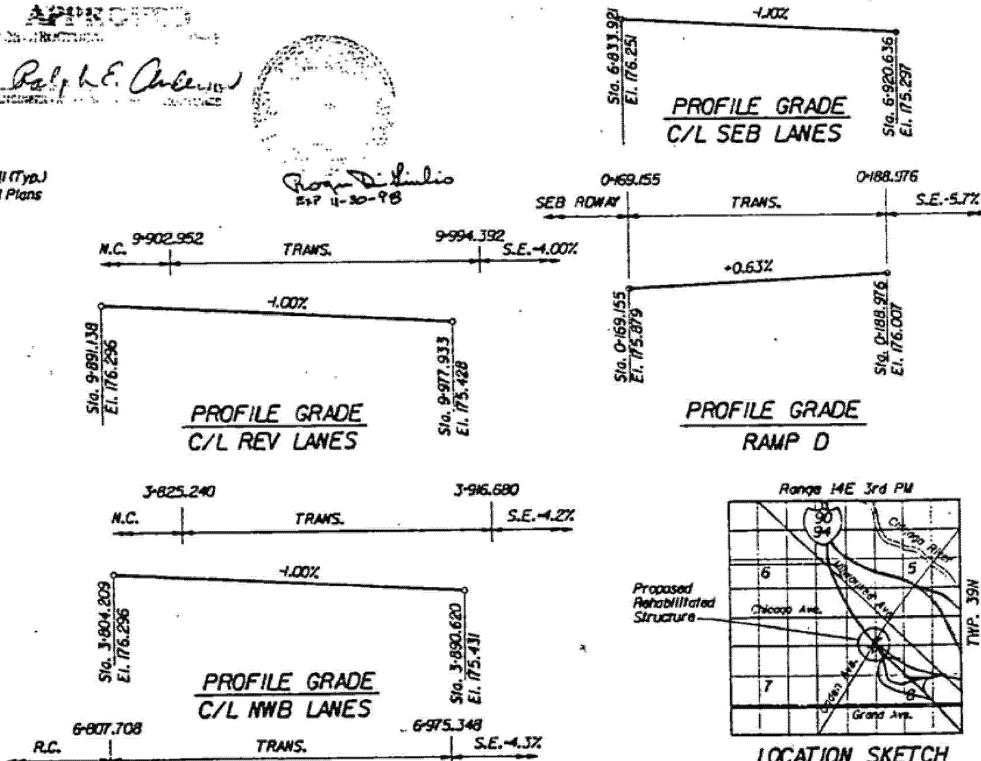
0303.2-1B-BRINEL-1 (SW)

STATION 0+216.952
REBUILT 1991 BY
STATE OF ILLINOIS
F.A.I. RT. 90/94
SEC. 0303.2-1B-BR
F.A. PROJ. AC/M-0005 (143)
LOADING MS18
STR. NO. 016-2049 (NE)

STATION 0+216.952
REBUILT 1991 BY
STATE OF ILLINOIS
F.A.I. RT. 90/94
SEC. 0303.2-1B-BR
F.A. PROJ. AC/M-0005 (143)
LOADING MS18
STR. NO. 016-2047 (SW)

Existing name plates to be cleaned and relocated adjacent to new name plate. Cost is included in pay item Name Plates. See Dwg. No. S-10 & S-4.

NAME PLATE
(See Sta. 515.001)



CURVE	CURVE NWB-3	CURVE OHIO A-3	CURVE OHIO D-4
Δ	2'-00'-01"	8'-14'-48.3"	31'-20'-19"
R	3492.75	547.159	249.631
T	60.966	39.444	70.022
L	121.920	78.754	136.538
E	0.530	1.420	9.635
P.C. STA.	3+725.259	0+304.800	0+691.555
P.L. STA.	3+787.225	0+344.244	0+239.181
P.T. STA.	3+848.182	0+383.554	0+305.696

KENNEDY RECONSTRUCTION PROJECT
ILLINOIS DEPARTMENT OF TRANSPORTATION

OGDEN AVENUE

GENERAL PLAN

F.A.I. 90/94
SN 016-2047 & 016-2049
SECTION 0303.2-1B-BRINEL-1 (SW)

COOK COUNTY
STA. 0+216.952

DATE: 6/6/2022
JOB NO.: 669502
DESIGNED: RLD
DRAWN: FTE
CHECKED: FES
APPROVED: RPH
SCALE:
DRAWING NO.: S-1

DE LEUW, CATHY & COMPANY
ENGINEERS AND PLANNERS

DeLEUW CATHY

MODEL: 62 (Sheet)
FILE NAME: c:\pwworking\old\11677701\102925-shr\typical.dwg

USER NAME	DESIGNED	REVISION
Ivan.diaz	-	-
	DRAWN	REVISION
	CHECKED	REVISION
	DATE	REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

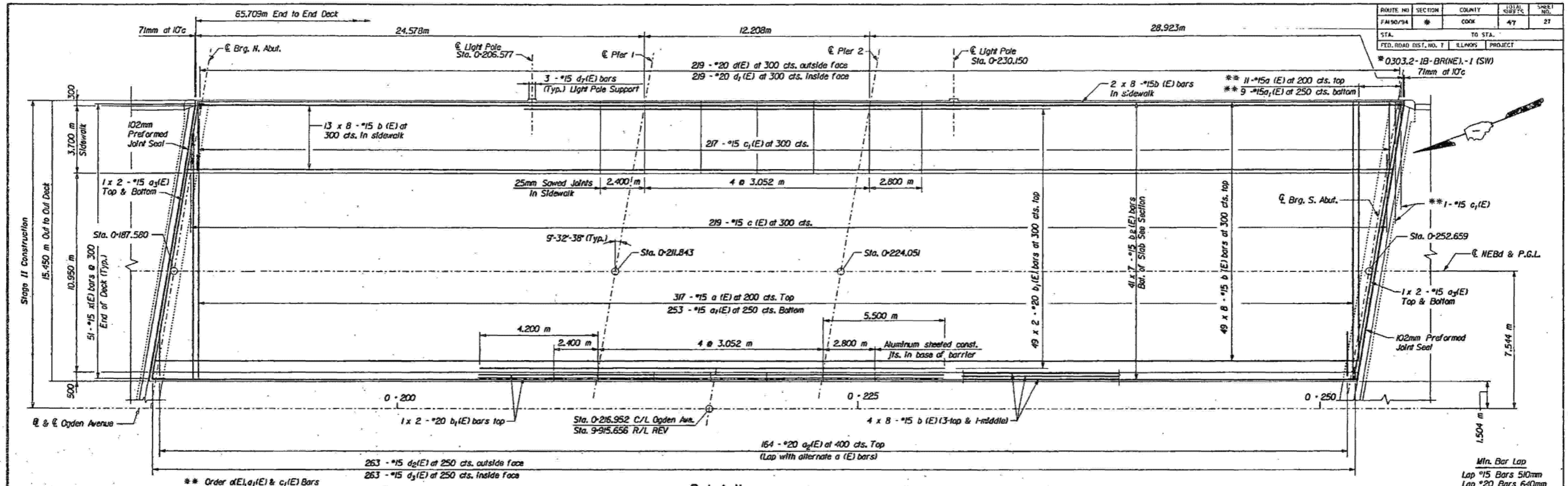
LOC. 34 & 36: OGDEN AVE OVER I-90/94 (SN 016-2047 & 016-2049)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 001 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	152

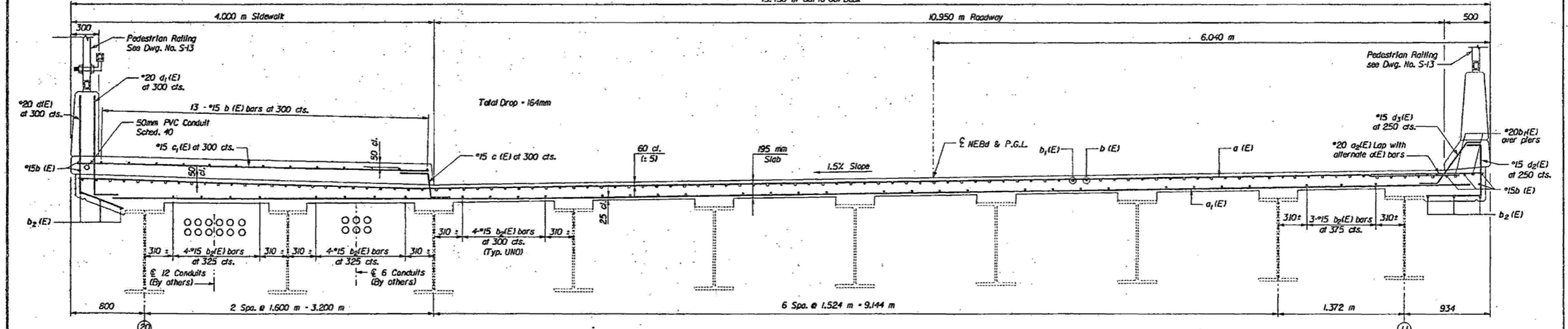
CONTRACT NO. 62X44
ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



** Order a1(E), a2(E) & c1(E) Bars full length. Cut to fit skew and use remainder in opposite end.

PLAN



CROSS SECTION
(Looking South)

- Note:**
- For Parapet and Sidewalk Detail and Barrier Detail See Dwg. No. S-9.
 - Bars Indicated 48 x 8 - #15 etc. Indicates 48 lines of bars with 8 lengths per line.
 - For Preformed Joint Seal Details See Dwg. No. S-9.
 - Existing conduits are to be maintained in place and temporarily supported by others. The utilities will supply and locate inserts for conduit supports. The Contractor shall install all inserts as located.

**DE LEUW
CATHER**

KENNEDY RECONSTRUCTION PROJECT ILLINOIS DEPARTMENT OF TRANSPORTATION		DATE
OGDEN AVENUE NEBD DECK PLAN & SECTION		JOB NO. 669502
F.A.I. 90/94 SN 016-2047 & 016-2049 SECTION 0303.2-1B-BR(NE).-1 (SW)		DESIGNED RLD
COOK COUNTY STA. 0+216.952		DRAWN EP
DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS		CHECKED LGP
		APPROVED RFH
		SCALE
		DRAWING NO. S-8

MODEL: 64 [Sheet] FILE NAME: c:\dwg\work\p\wdot\clazad\1167770\0102925-sm-typical.dgn

USER NAME = Ivan.dlaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOC. 34 & 36: OGDEN AVE OVER I-90/94 (SN 016-2047 & 016-2049)
EXISTING STRUCTURE DETAILS**

SCALE: SHEET 003 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	154
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

MODEL NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 90/94		COOK	47	28
STA. _____ TO STA. _____		PROJECT		
* 0303.2-1B-BRINE)-1 (SW)				

BILL OF MATERIAL †

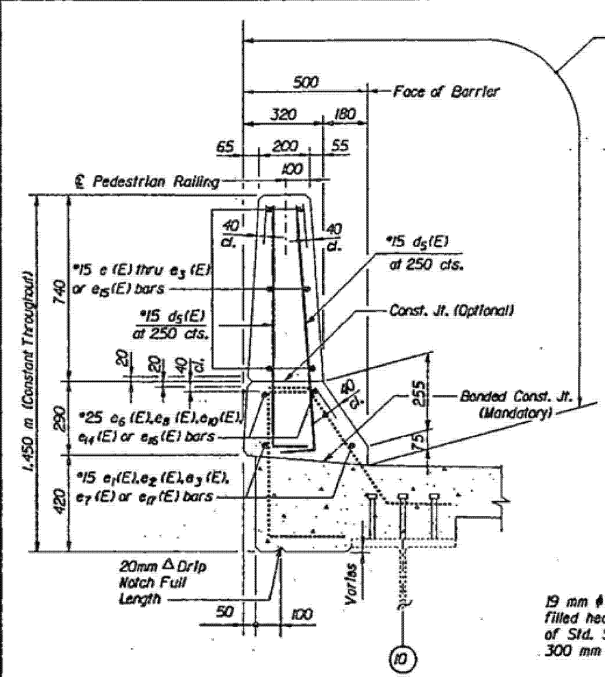
Bar	No.	Size	Length (m)	Shape
a (E)	328	*15	15.25	
a ₁ (E)	262	*15	14.80	
a ₂ (E)	328	*20	1.20	
a ₃ (E)	16	*15	8.00	
a ₄ (E)	328	*15	14.96	
a ₅ (E)	262	*15	14.50	
b (E)	1080	*15	8.66	
b ₁ (E)	202	*20	11.30	
b ₂ (E)	567	*15	9.82	
c (E)	438	*15	0.73	
c ₁ (E)	438	*15	3.87	
d (E)	438	*20	1.70	
d ₁ (E)	438	*20	1.37	
d ₂ (E)	263	*15	1.40	
d ₃ (E)	526	*15	0.80	
d ₄ (E)	263	*15	1.11	
d ₇ (E)	12	*15	1.17	
x (E)	204	*15	1.28	
Concrete Superstructure			m ³	607.1
Reinforcement Bars, Epoxy Coated			kg	66,000
Bridge Deck Grooving			m ²	1,345
Protective Coat			m ²	788
Preformed Joint Seal			m	63.0

Reinforcement bars designated (E) shall be epoxy coated.

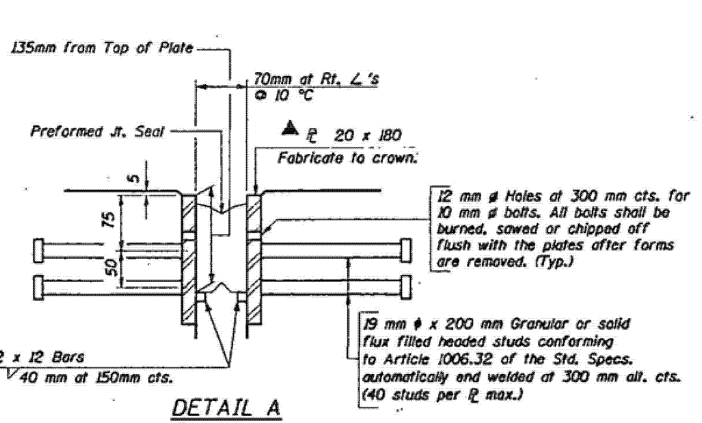
** Quantity does not include roadway deck surface.

† Bill for SWBd & NEBd Deck

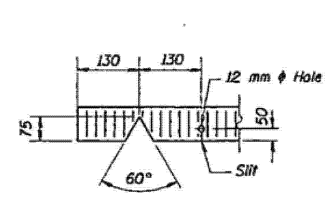
When the fillet heights exceed 130 mm, the Contractor shall provide "Fillet Reinforcement" as detailed. The cost of this reinforcement including labor and other materials to perform this task shall be included in the cost of "Reinforcement Bars, Epoxy Coated".



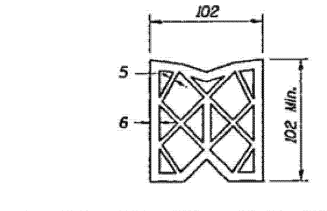
BARRIER DETAIL
(Typical)



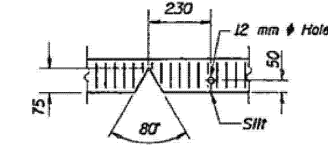
DETAIL A



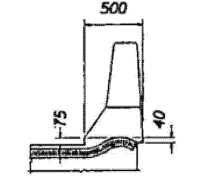
END OF SEAL CUT-OUT



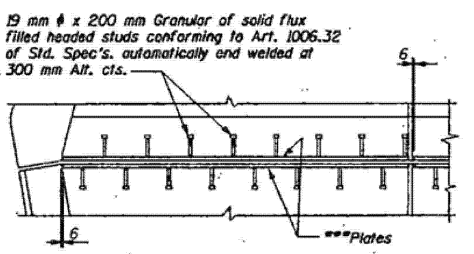
PREFORMED JOINT SEAL (102 mm)



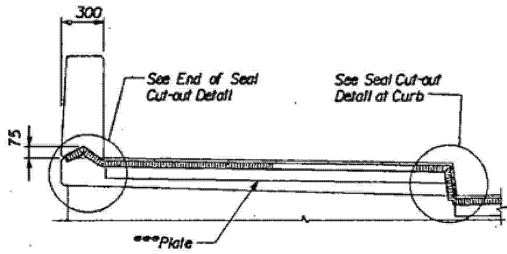
SEAL CUT-OUT AT CURB



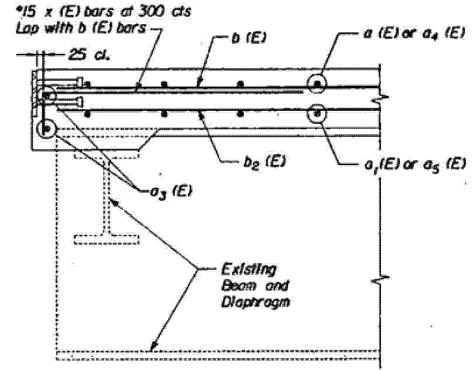
TYP. SEAL TREATMENT AT BARRIER



PLAN



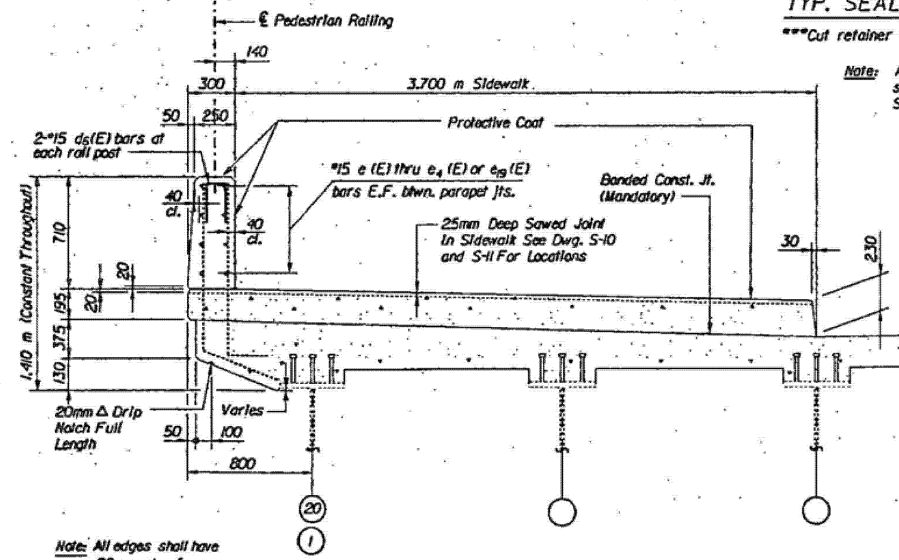
SECTION



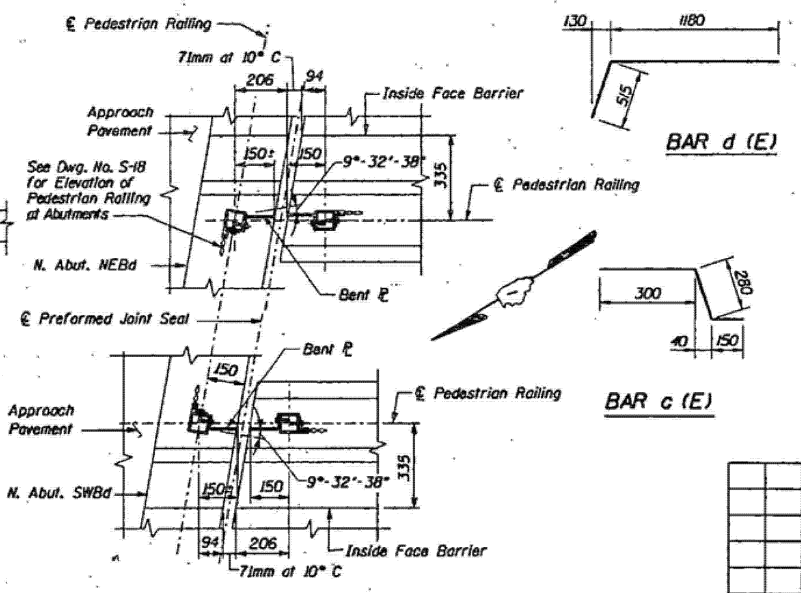
SECTION AT END OF DECK

TYP. SEAL TREATMENTS AT SIDEWALK

***Cut retainer bars in sidewalk 150 mm short of sidewalk face.
 Note: After fabrication all surfaces of the steel plates for joints shall be given one shop coat of paint specified for Structural Steel. No field painting required.

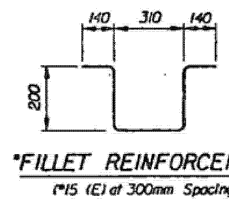


PARAPET & SIDEWALK DETAIL
(Typical)

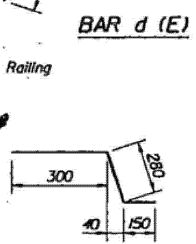


DETAIL B

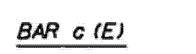
(S. Abut. similar by opposite hand)



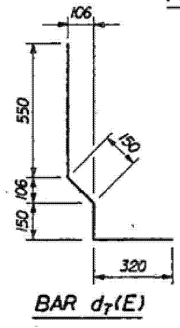
"FILLET REINFORCEMENT"
(*15 (E) at 300mm Spacing)



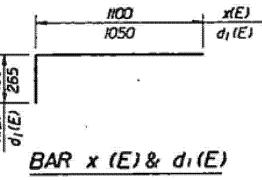
BAR d (E)



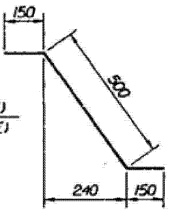
BAR c (E)



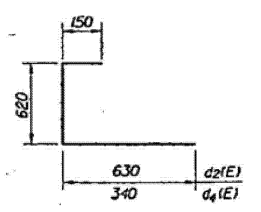
BAR d₇(E)



BAR x (E) & d₁(E)



BAR d₃(E)



BAR d₂(E) & d₄(E)

DeLEUW CATHER

KENNEDY RECONSTRUCTION PROJECT ILLINOIS DEPARTMENT OF TRANSPORTATION			DATE	
			JOB NO.	669502
OGDEN AVENUE SUPERSTRUCTURE DETAILS			DESIGNED	R/LD
			DRAWN	EP
F.A.I. 90/94 SN 016-2047 & 016-2049 SECTION 0303.2-1B-BRINE)-1 (SW)			CHECKED	LGP
			APPROVED	RFH
DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS			SCALE	
			DRAWING NO.	S-9

MODEL: 65 (Sheet) FILE NAME: c:\pwworking\old\11677701\102925-shr\typical.dgn

USER NAME	= Ivan.diaz	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 12/4/2025	DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

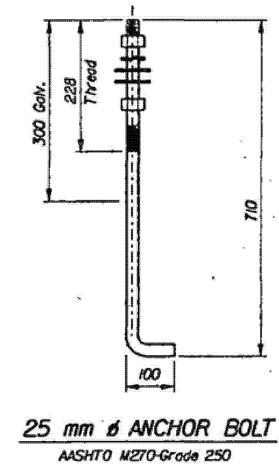
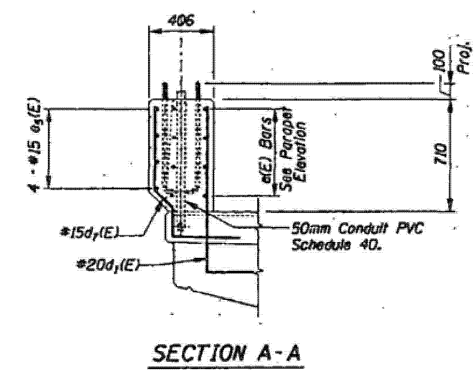
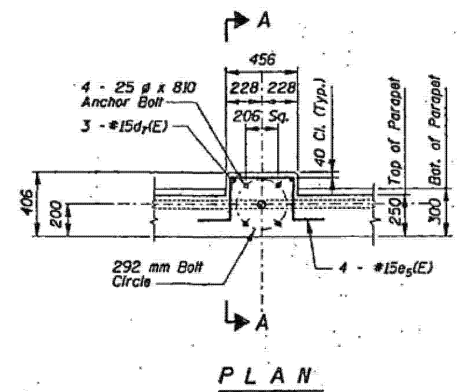
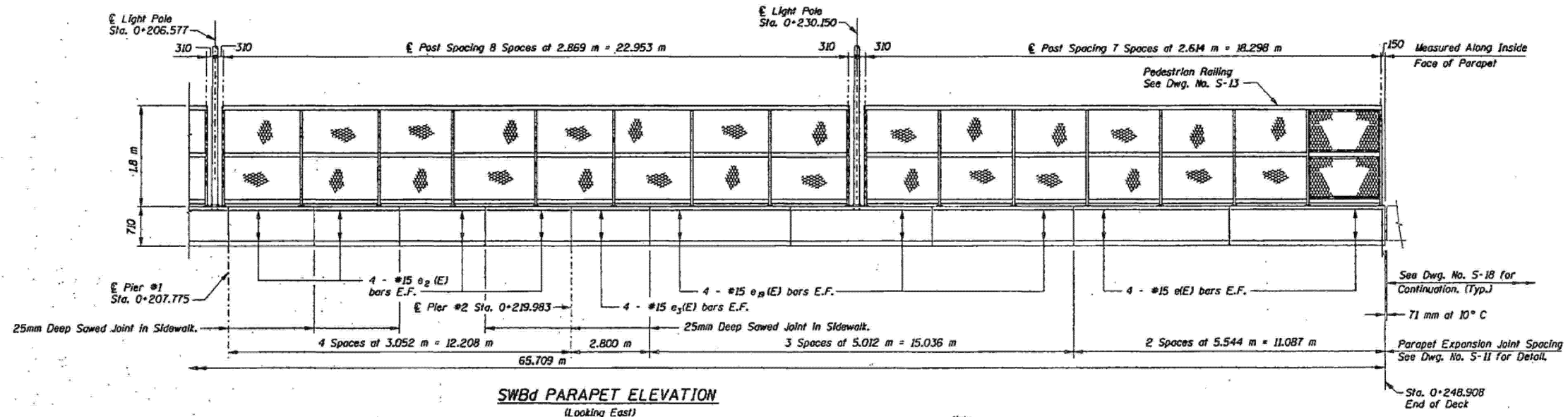
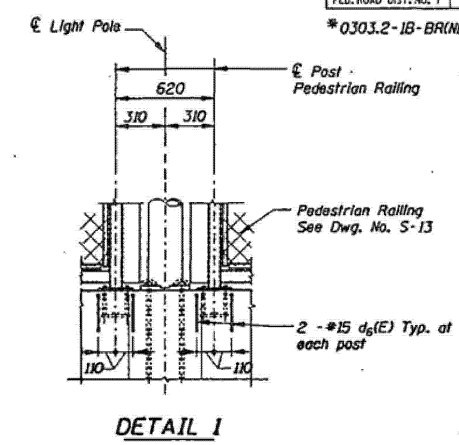
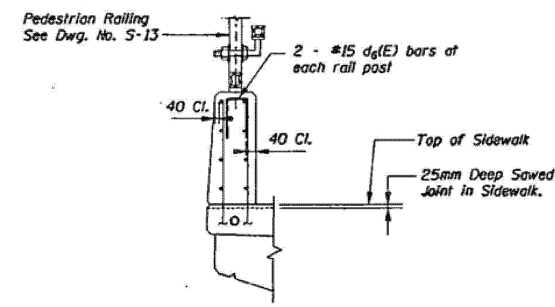
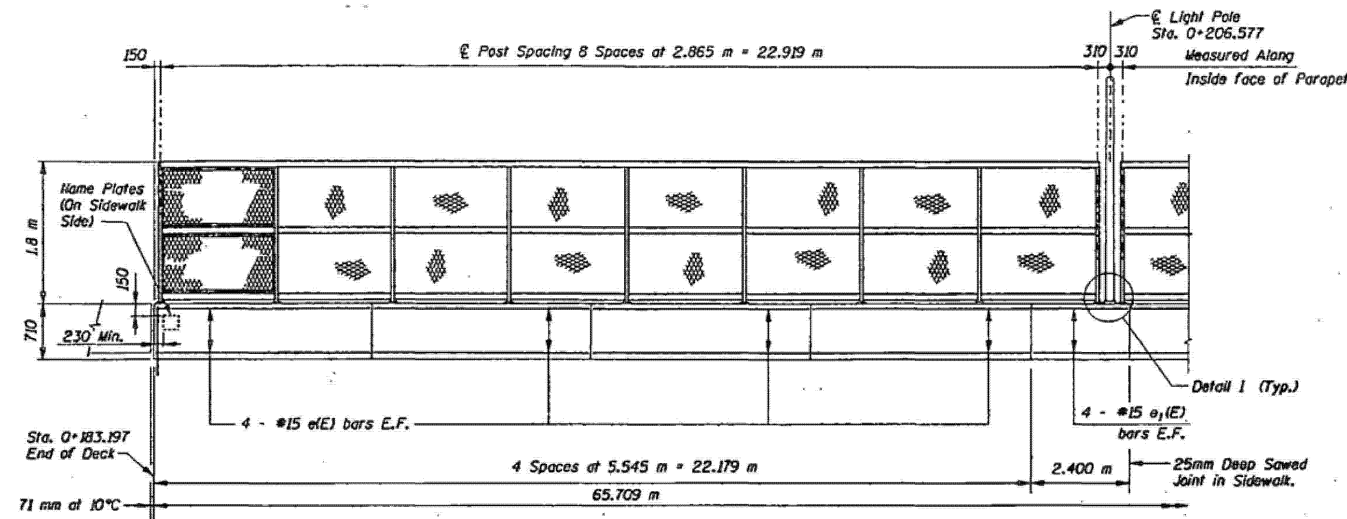
**LOC. 34 & 36: OGDEN AVE OVER I-90/94 (SN 016-2047 & 016-2049)
EXISTING STRUCTURE DETAILS**

SCALE: SHEET 004 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	155
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FMS0/94	*	COOK	47	29
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		



- Note:
- Provide two hex nuts, two 76 mm O.D. flat washers and one lockwasher for each anchor bolt. Nuts and washers shall be galvanized. All details for conduits, anchor bolts, nuts and washers shall be as approved by the Engineer.
 - Bridge Mounted Sign not shown for clarity. See Dwg. No. S-14 for details
 - The Contractor shall show locations of supports for Bridge Mounted Signs and Light Poles on Pedestrian Railing shop drawing and, if necessary, adjust railing spacing to provide clearance. The Contractor shall submit these shop drawings for approval before placing the concrete deck.

Cost of anchor bolts, nuts, washer and conduits is included in the cost of Concrete Superstructure.

Work this Dwg. with Dwg. No. S-11

DeLEUW
CATHER

LIGHT POLE SUPPORT ON PARAPET

KENNEDY RECONSTRUCTION PROJECT		DATE
ILLINOIS DEPARTMENT OF TRANSPORTATION		JOB NO. 669502
OGDEN AVENUE		DESIGNED RLO
SWbD PARAPET ELEVATION AND DETAILS		DRAWN FTE
F.A.T. 90/94	SN 016-2047 & 016-2049	CHECKED LGP
SECTION 0303.2-IB-BR(NE).-1 (SW)	COOK COUNTY	APPROVED RFH
	STA. 0+216.952	SCALE
DE LEUW, CATHER & COMPANY		DRAWING NO.
ENGINEERS AND PLANNERS		S-10

MODEL: 66 (Sheet)
FILE NAME: c:\pw\work\dwg\illad\1167770\102925-shs-typical.dgn

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOC. 34 & 36: OGDEN AVE OVER I-90/94 (SN 016-2047 & 016-2049)
EXISTING STRUCTURE DETAILS

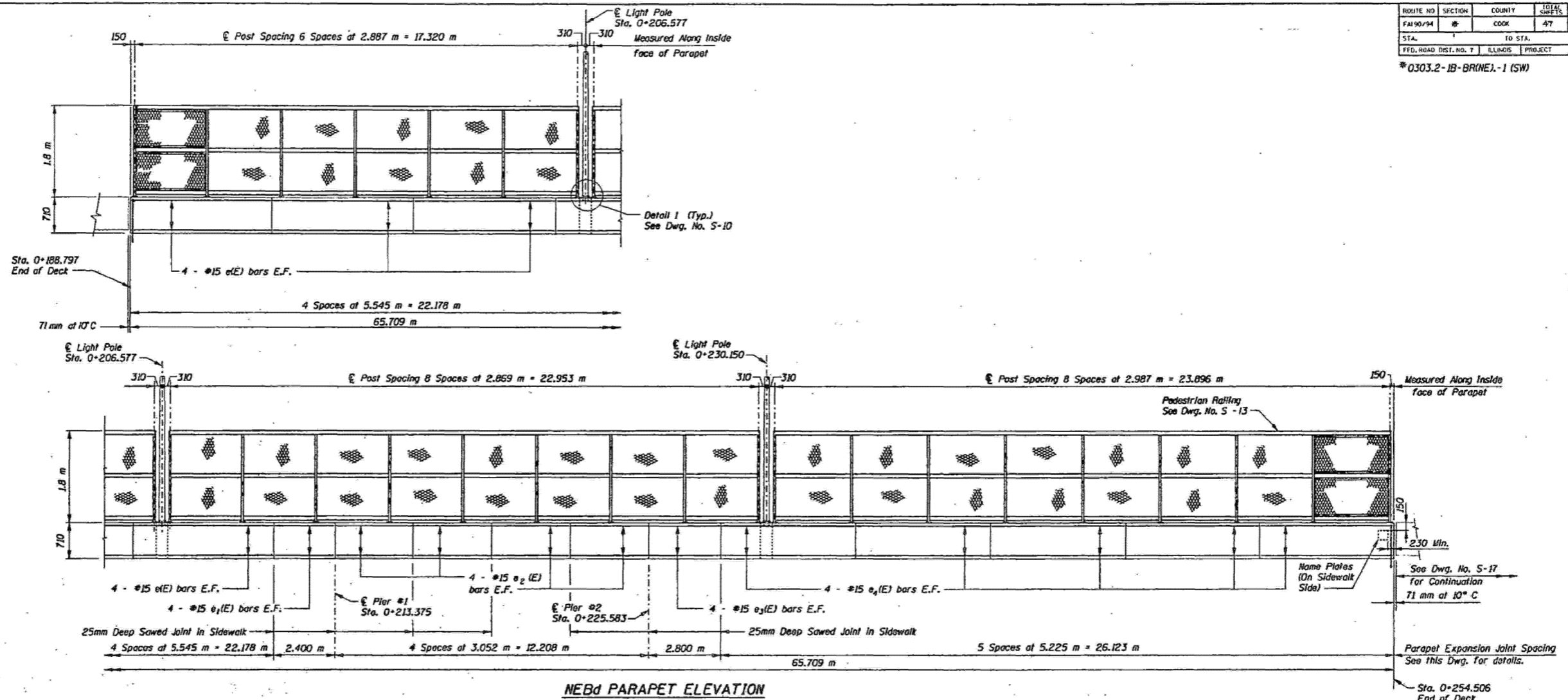
SCALE: SHEET 005 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	156
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 90/94	#	COOK	47	30
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

*0303.2-IB-BRINE)-1 (SW)

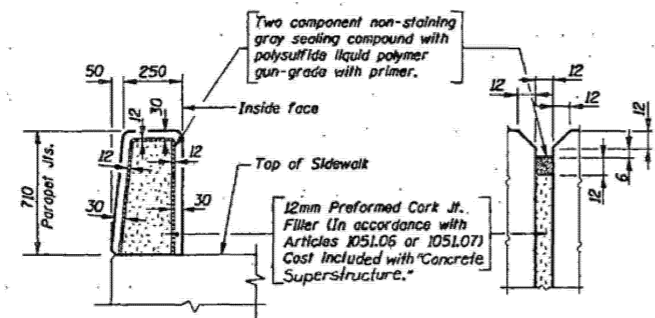


NEBd PARAPET ELEVATION
(Looking East)

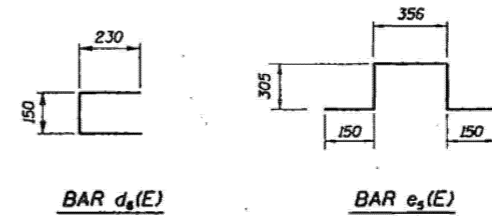
BILL OF MATERIAL**

Bar	No.	Size	Length (m)	Shape
$d_4(E)$	50	#15	0.61	□
$e(E)$	80	#15	5.47	—
$e_1(E)$	16	#15	2.32	—
$e_2(E)$	64	#15	2.97	—
$e_3(E)$	16	#15	2.72	—
$e_4(E)$	40	#15	5.15	—
$e_5(E)$	32	#15	1.27	—
$e_6(E)$	24	#15	4.93	—
Concrete Superstructure		m ³	25.9	
Reinforcement Bars: Epoxy Coated		kg	1735	
Pedestrian Railing		m	131.4	

Reinforcement bars designated (E) shall be epoxy coated.



PARAPET EXPANSION JOINT DETAIL



Work this Dwg. with Dwg. No. S-10

**DeLEUW
CATHER**

KENNEDY RECONSTRUCTION PROJECT ILLINOIS DEPARTMENT OF TRANSPORTATION OGDEN AVENUE			DATE
NEBd PARAPET ELEVATION AND DETAILS F.A.I. 90/94 SN 016-2047 & 016-2049 COOK COUNTY STA. 0+216.952 SECTION 0303.2-IB-BRINE)-1 (SW)			JOB NO. 669502
DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS			DESIGNED RLD DRAWN FTE CHECKED -LGP APPROVED RPH SCALE
			DRAWING NO. S-11

USER NAME = Ivan.dlaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOC. 34 & 36: OGDEN AVE OVER I-90/94 (SN 016-2047 & 016-2049)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 006 OF 7 SHEETS STA. TO STA.

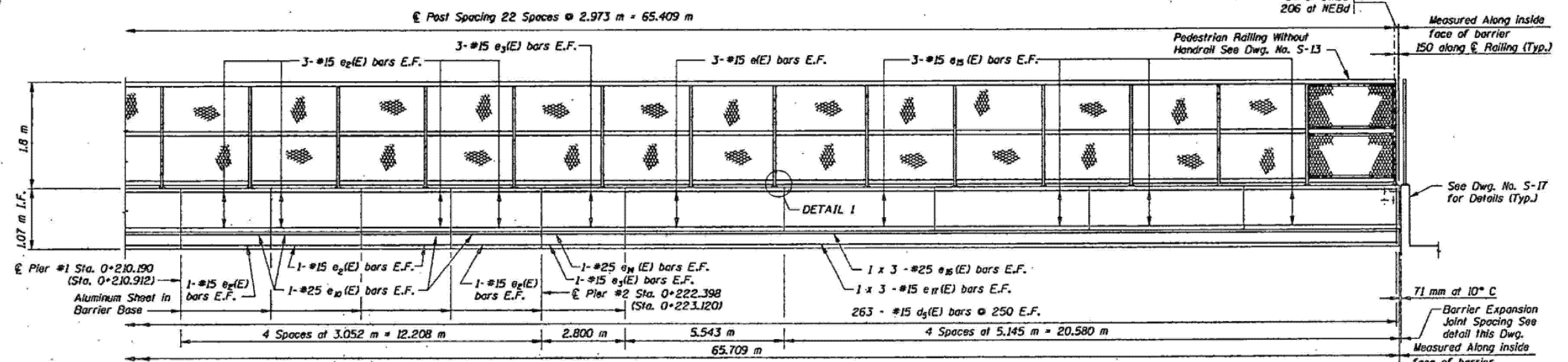
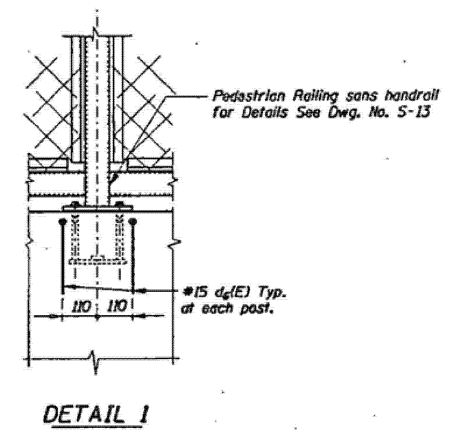
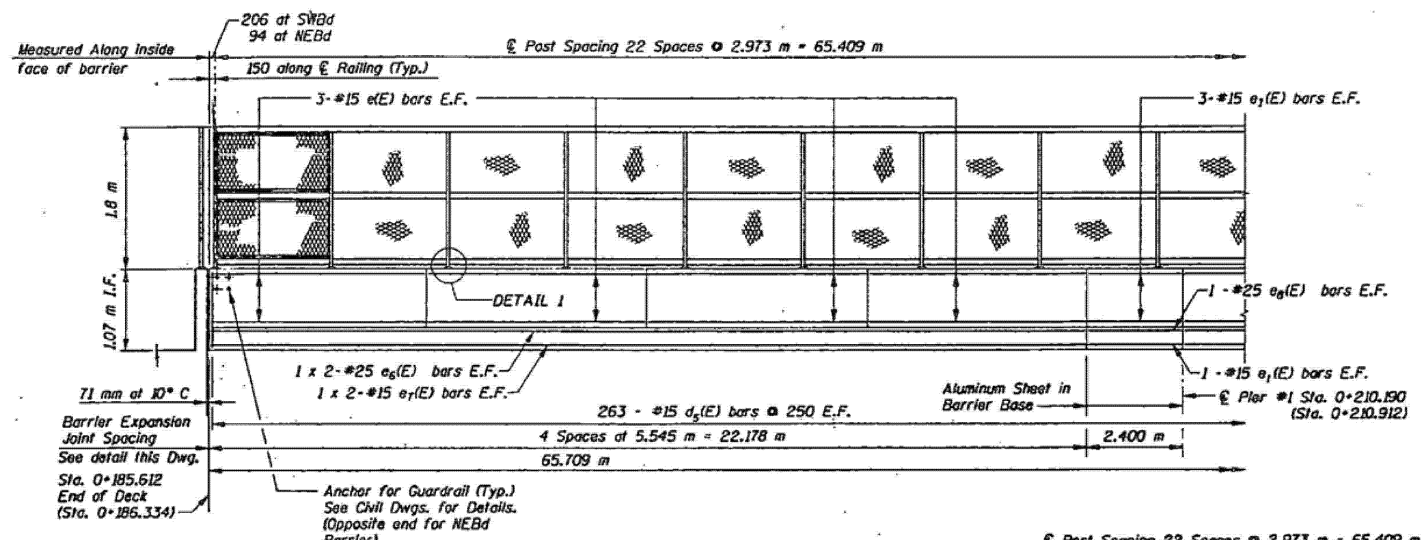
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	157
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

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FOR INFORMATION ONLY

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FM 90/94	#	COOK	47	31
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

* 0303.2-1B-BRINE.-1 (SW)

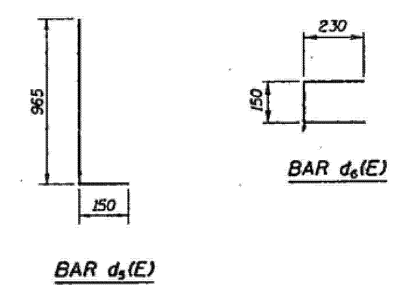


SWBd BARRIER ELEVATION
(Looking East)
(NEBd Barrier similar - Looking East)

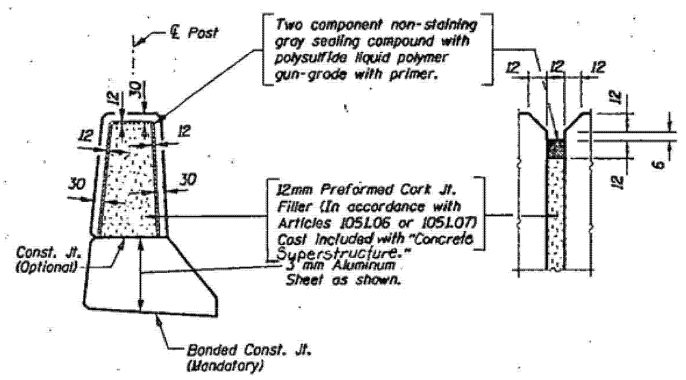
BILL OF MATERIAL**

Bar	No.	Size	Length (m)	Shape
e (E)	60	#15	5.47	—
e1 (E)	15	#15	2.32	—
e2 (E)	64	#15	2.97	—
e3 (E)	16	#15	2.72	—
e4 (E)	8	#25	11.62	—
e5 (E)	8	#15	11.34	—
e6 (E)	4	#25	2.32	—
e7 (E)	16	#25	2.97	—
e8 (E)	4	#25	2.72	—
e9 (E)	48	#15	5.06	—
e10 (E)	12	#25	9.42	—
e11 (E)	12	#15	9.05	—
d5 (E)	1052	#15	1.12	—
d6 (E)	92	#15	0.61	—
Concrete Superstructure	m ³		40.4	
Reinforcement Bars, Epoxy Coated	kg		4650	
Pedestrian Railing	m		131.4	

**For NEBd and SWBd Barriers



- Note:**
1. Station shown in parenthesis () are for NEBd Barrier.
 2. For typical barrier section see Dwg. No. S-9.
 3. Bars indicated 1 x 2 - #15 etc. Indicates 1 line of bars with 2 lengths per line.



BARRIER EXPANSION JOINT DETAIL

DeLEUW CATHER

KENNEDY RECONSTRUCTION PROJECT ILLINOIS DEPARTMENT OF TRANSPORTATION		DATE
OGDEN AVENUE SWBd AND NEBd BARRIERS ELEVATION AND DETAILS		JOB NO. 669502
F.A.I. 90/94 SN 016-2047 & 016-2049 SECTION 0303.2-1B-BRINE.-1 (SW)		DESIGNED RLD
COOK COUNTY STA. 0+216.952		DRAWN EP
DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS		CHECKED LGP
		APPROVED RPH
		SCALE
		DRAWING NO. S-12

MODEL: 68 (Sheet)
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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOC. 34 & 36: OGDEN AVE OVER I-90/94 (SN 016-2047 & 016-2049)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 007 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	158
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

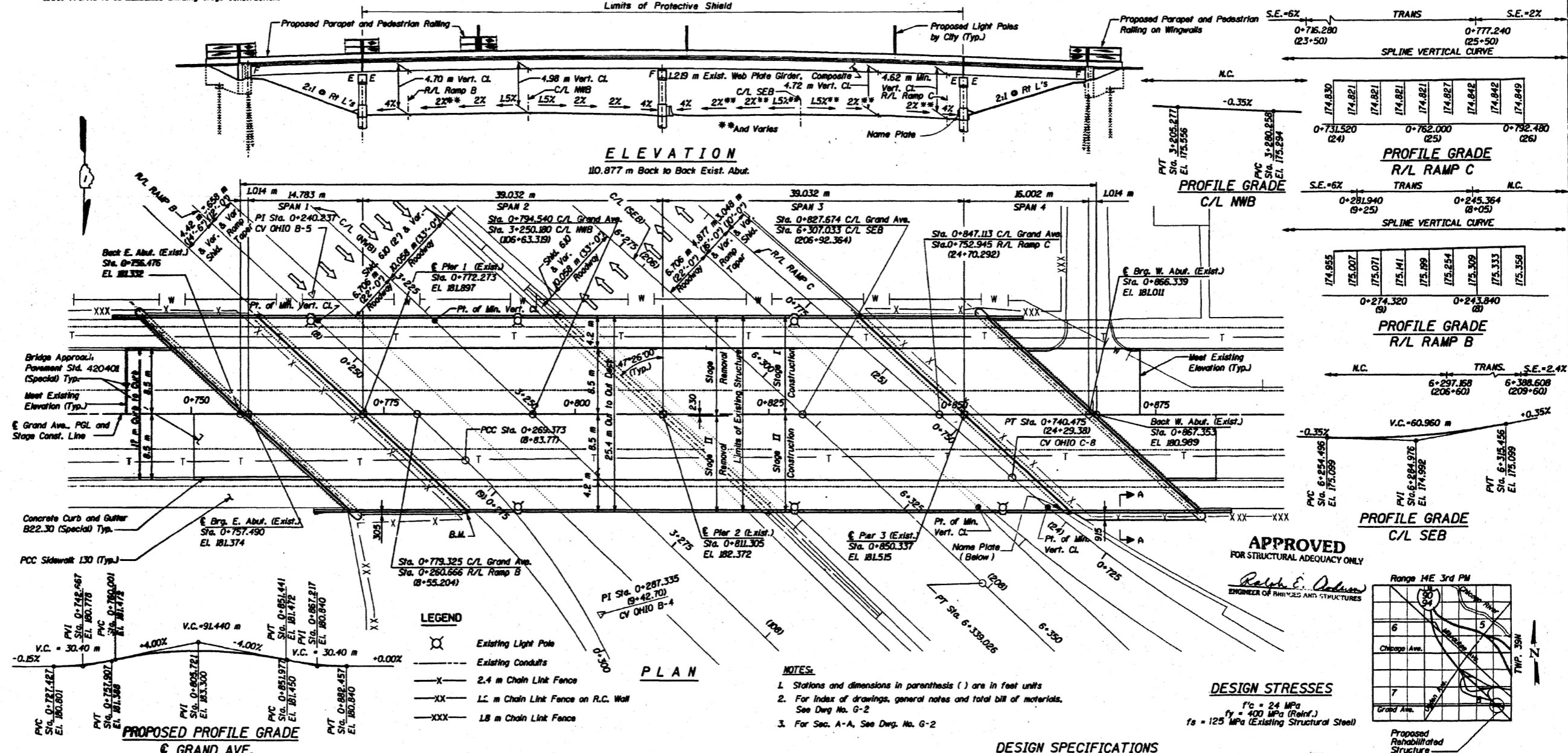
FOR INFORMATION ONLY

4400HSPCE08
4400HSPCE08
4400HSPCE08

Bench Marks: Square cut NW corner of Pier 1 crashwall of Grand Ave. bridge over N.W.B. J.F.K. Elev. = 176.284 m
Existing Structure: S.R. 085-2048, two continuous interior spans, simply supported end spans, welded steel plate girder with non-composite R.C. deck, 110.877 m back to back abut., 25.376 m wide. Built as F.A.I. Route 94, Section 0303-476HB, HF in 1960. Traffic to be maintained utilizing stage construction.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FM 90/94	8	COOK	41	21
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

* 0303-476 HB - BR



Efrén M. Miranda
11-30-98

STATION 0+811.305
REBUILT BY
STATE OF ILLINOIS
F.A.I. RT. 90/94 SEC. 0303-476HB-BR
F. A. PROJ. ACIM-94-3(16)60
LOADING MS18
STR. NO. 016-2048

Remove existing name plates adjacent to new name plate. Cost is included in pay item Name Plates. See Dwg. No. G-2.

NAME PLATE
See Std. 515001

Malcom Watson, Wynne and Associates, Inc.

NO.	DATE	REVISION	BY

KENNEDY RECONSTRUCTION PROJECT
ILLINOIS DEPARTMENT OF TRANSPORTATION

GRAND AVENUE OVER KENNEDY EXPRESSWAY

GENERAL PLAN

F.A.I. 90/94
SECTION 0303-476HB-BR
SN 016-2048
COOK COUNTY
STA. 0+811.305

DATE: 1/31/97
JOB NO.:
DESIGNED: RCE
DRAWN: JN
CHECKED: EMM
APPROVED:
SCALE:
DRAWING NO.: G-1

DE LEUW, CATHY & COMPANY
ENGINEERS AND PLANNERS

**DeLEUW
CATHY**

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

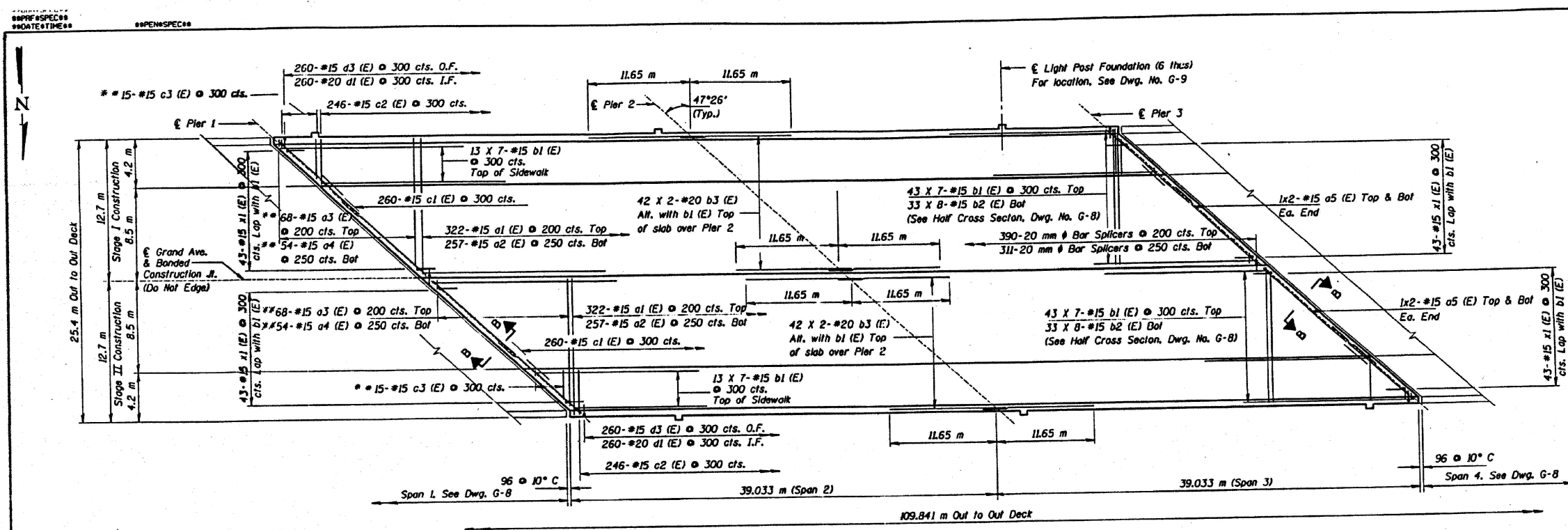
LOCATION 35: GRAND AVE OVER I-90/94 JFK (SN 016-2048)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 001 OF 4 SHEETS STA. TO STA.

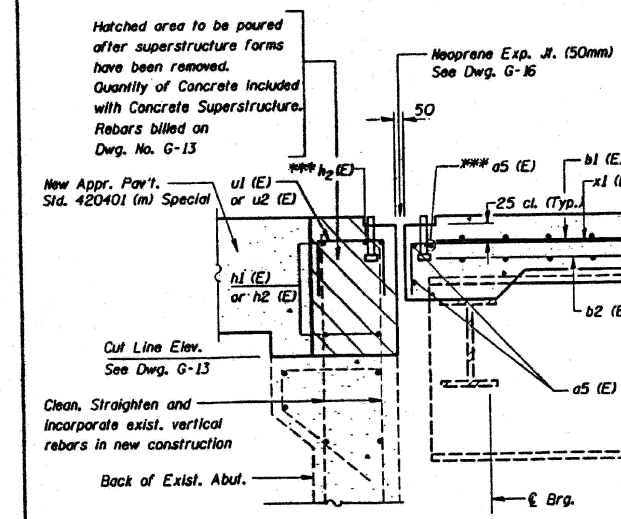
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	159
CONTRACT NO. 62X44				ILLINOIS FED. AID PROJECT

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FOR INFORMATION ONLY

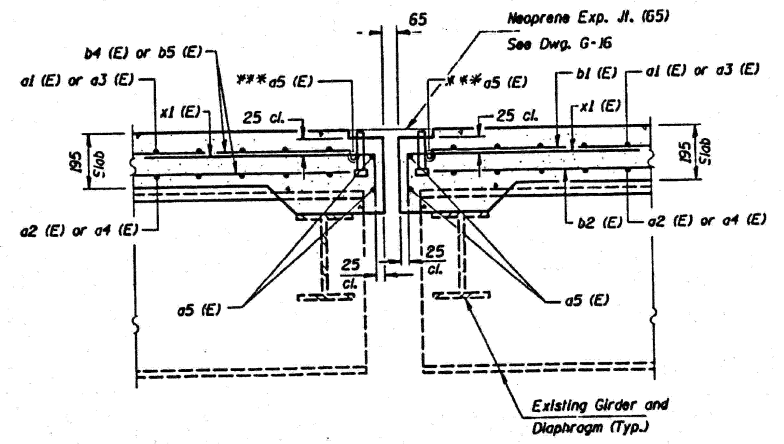


PLAN SPANS 2 & 3
For Half Cross Section, See Dwg. G-8.

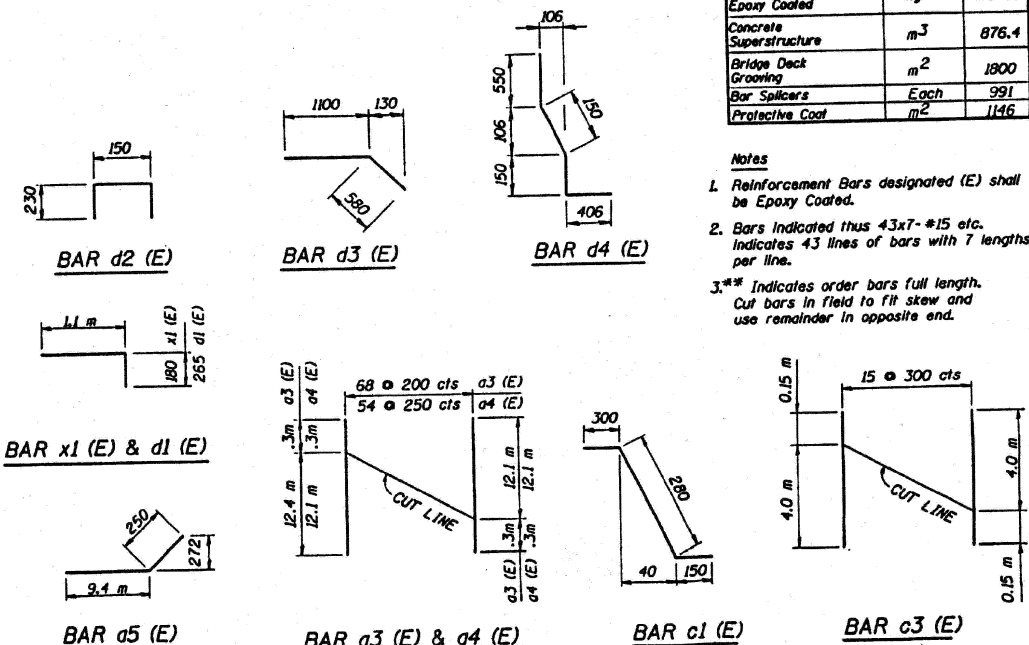


SECTION A-A
AT RT. Ls

Notes: For location of Section A-A, See Dwg. G-8.



SECTION B-B
AT RT. Ls



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FM 90/94	#	COOK	41	27

TO STA. ILLINOIS PROJECT

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
a1 (E)	696	#15	12.6	
a2 (E)	554	#15	12.3	
a3 (E)	408	#15	12.7	
a4 (E)	324	#15	12.4	
a5 (E)	48	#15	9.7	
b1 (E)	798	#15	11.57	
b2 (E)	528	#15	10.19	
b3 (E)	168	#20	11.95	
b4 (E)	212	#15	15.62	
b5 (E)	212	#15	16.84	
c1 (E)	732	#15	0.73	
c2 (E)	640	#15	4.14	
c3 (E)	90	#15	4.2	
d1 (E)	724	#20	1.37	
d2 (E)	184	#15	0.61	
d3 (E)	732	#15	1.68	
d4 (E)	18	#15	1.26	
e1 (E)	48	#15	5.13	
e2 (E)	224	#15	5.48	
e3 (E)	48	#15	5.58	
e4 (E)	24	#15	1.27	
x1 (E)	516	#15	1.28	
ITEM		UNIT	TOTAL	
Reinforcement Bars Epoxy Coated	kg	92,000		
Concrete Superstructure	m ³	876.4		
Bridge Deck Grooving	m ²	1800		
Bar Splicers	Each	991		
Protective Coat	m ²	1146		

- Notes**
- Reinforcement Bars designated (E) shall be Epoxy Coated.
 - Bars indicated thus 43x7-#15 etc. indicates 43 lines of bars with 7 lengths per line.
 - *** Indicates order bars full length. Cut bars in field to fit skew and use remainder in opposite end.

DeLEUW CATHER

KENNEDY RECONSTRUCTION PROJECT
ILLINOIS DEPARTMENT OF TRANSPORTATION
GRAND AVENUE OVER KENNEDY EXPRESSWAY
SUPERSTRUCTURE - SPANS 2 & 3

F.A.I. 90/94 SECTION 0303-476HB-BR SN 016-2048 COOK COUNTY STA. 0+811.305

DE LEUW, CATHER & COMPANY
ENGINEERS AND PLANNERS

DATE 1/31/97
JOB NO.
DESIGNED RCE
DRAWN JIN
CHECKED EMM
APPROVED
SCALE
DRAWING NO. G-7

MODEL: 70 (Sheet)
FILE NAME: c:\pwworking\old\11677701D-102925-shr\typical.dgn

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

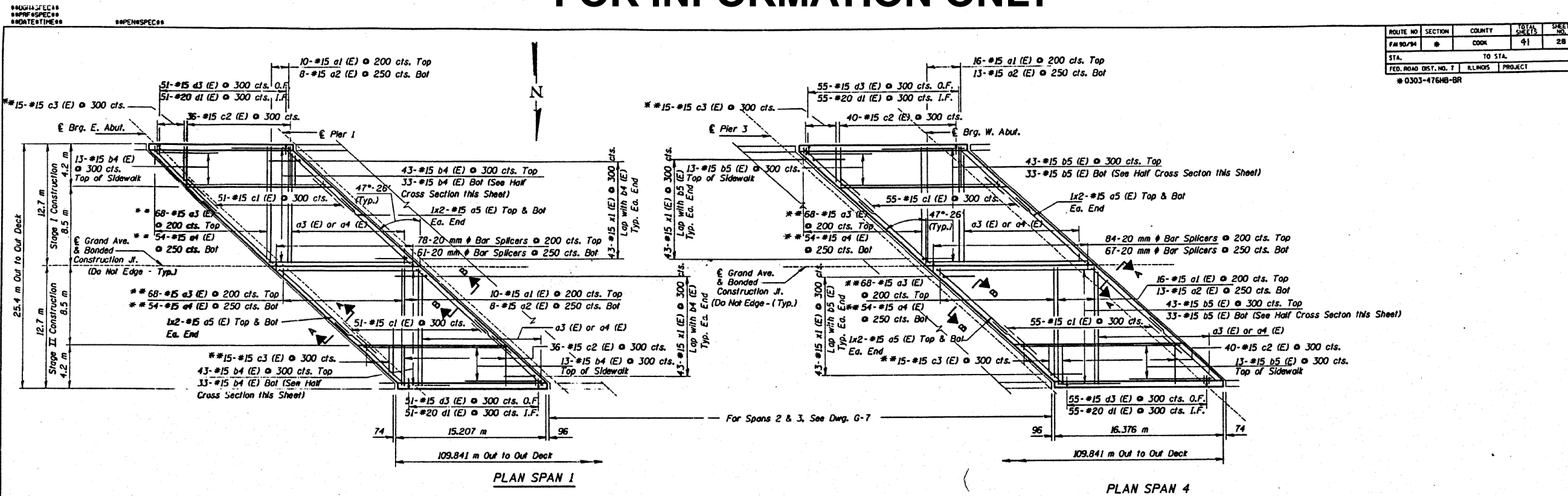
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 35: GRAND AVE OVER I-90/94 JFK (SN 016-2048)
EXISTING STRUCTURE DETAILS

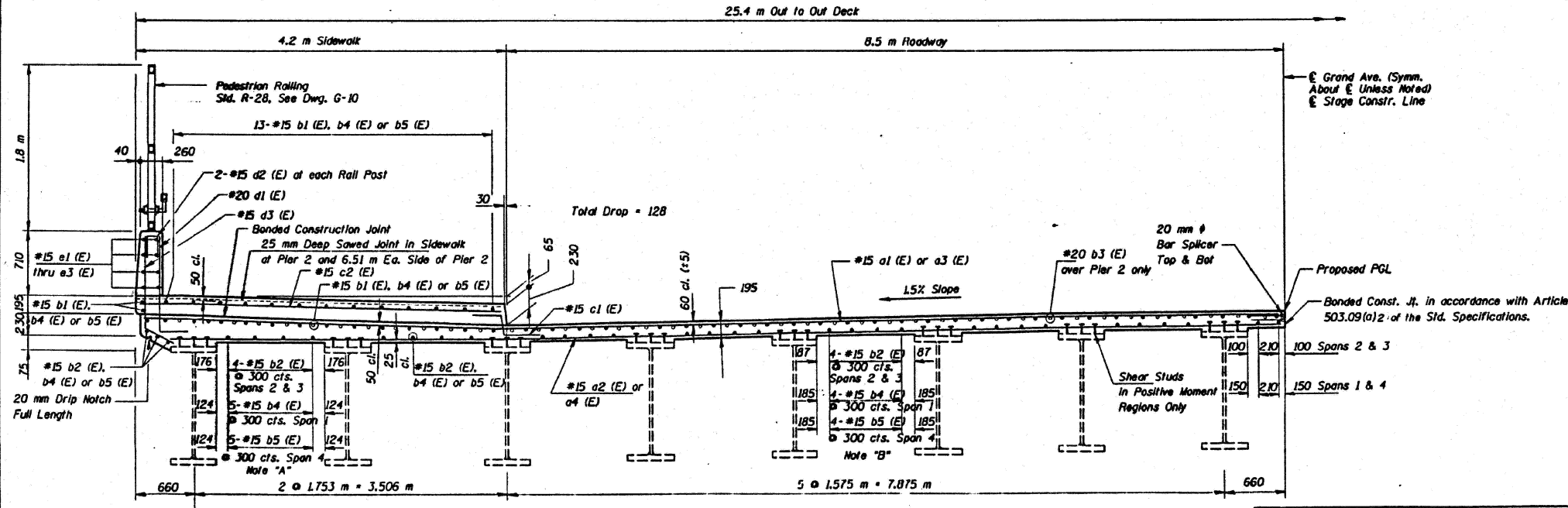
SCALE: SHEET 002 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	160
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F#190/94	#	COOK	41	28
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
* 0303-476HB-BR				



DETAIL A

Notes

- For Bill of Material, Section A-A, Section B-B, and Bar Cutting Diagrams, See Dwg. G-7.
- ** Indicates order bars a3 (E), a4 (E) and c3 (E) full length. Cut bars in field to fit skew and use remainder of bars in opposite end.
- For Parapet Details and Roll Post Spacing, See Dwg. G-9.

DELEUW CATHER

REINFORCING DETAILS

HALF CROSS SECTION (LOOKING WEST)

Note "A": Reinforcing shown is typical for girders spaced 1.753 m apart.

Note "B": Reinforcing shown is typical for girders spaced 1.575 m apart.

KENNEDY RECONSTRUCTION PROJECT
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 GRAND AVENUE OVER KENNEDY EXPRESSWAY
SUPERSTRUCTURE - SPANS 1 & 4
 F.A.I. 90/94 SECTION 0303-476HB-BR SN 016-2048 COOK COUNTY STA. 0+811.305
 DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS

DATE 1/31/97
 JOB NO.
 DESIGNED RCE
 DRAWN JIN
 CHECKED EMM
 APPROVED
 SCALE
 DRAWING NO. G-8

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

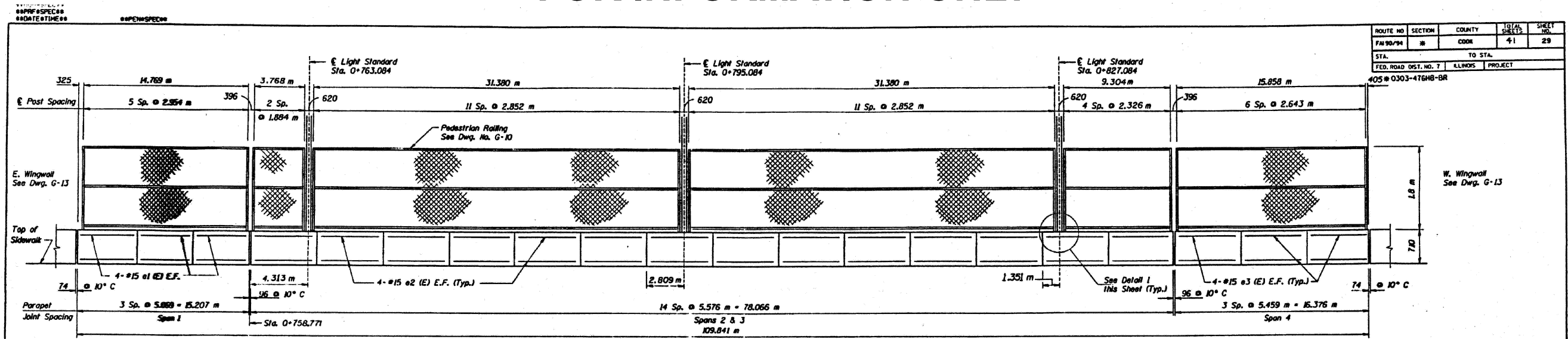
LOCATION 35: GRAND AVE OVER I-90/94 JFK (SN 016-2048)
 EXISTING STRUCTURE DETAILS

SCALE: SHEET 003 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	161
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

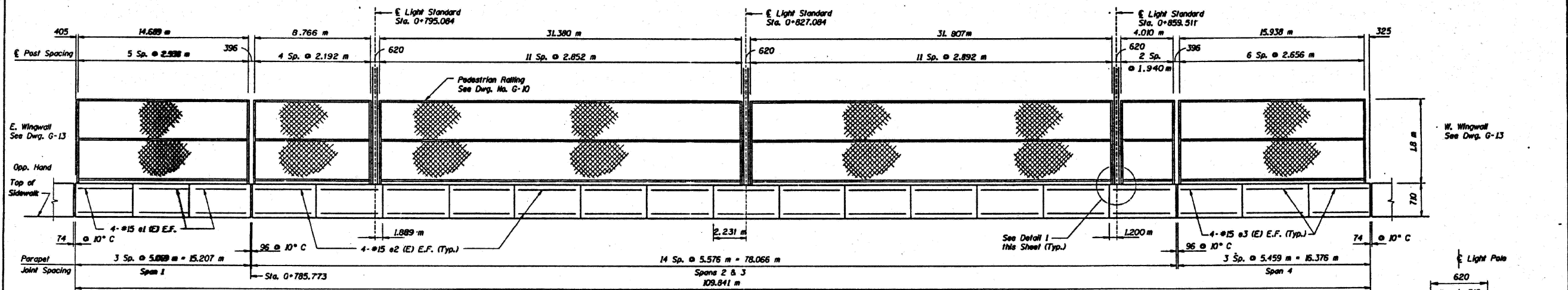
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FOR INFORMATION ONLY

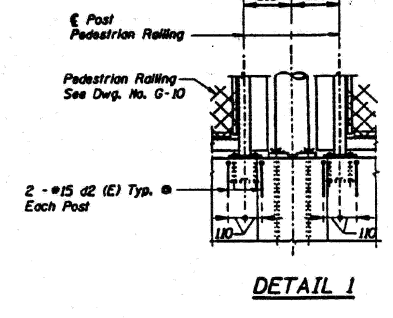
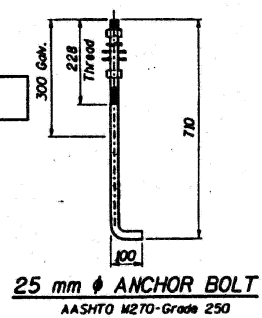
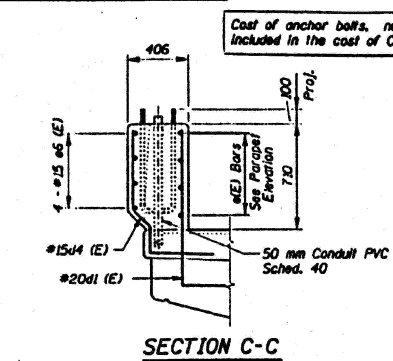
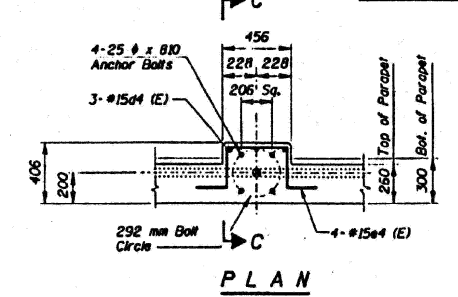
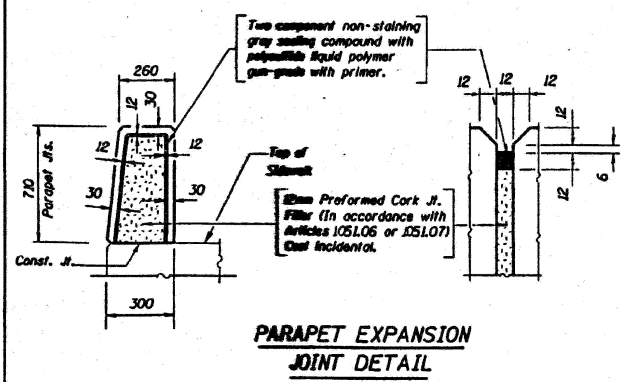


INSIDE ELEVATION SOUTH PARAPET

Note: Reinforcement Bars and Concrete Quantities Included in Bill of Material on Dwg. No. G-7.



INSIDE ELEVATION NORTH PARAPET



DeLEUW CATHER
 Makawansa, Wyrns and Associates, Inc.

Notes:
 Provide two hex nuts, two 76 mm O.D. flat washers and one lockwasher for each anchor bolt. Nuts and washers shall be galvanized. All details for conduits, anchor bolts, nuts and washers shall be as approved by the Engineer.
 Existing Light Poles will be removed by the City of Chicago prior to construction.

Makawansa, Wyrns and Associates, Inc.

KENNEDY RECONSTRUCTION PROJECT ILLINOIS DEPARTMENT OF TRANSPORTATION GRAND AVENUE OVER KENNEDY EXPRESSWAY SUPERSTRUCTURE DETAILS		DATE 1/31/97
F.A.I. 90/94 SECTION 0303-476HB-BR SN 016-2048		JOB NO.
COOK COUNTY STA. 0+811.305		DESIGNED RCE
DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS		DRAWN JN
		CHECKED EMM
		APPROVED
		SCALE
		DRAWING NO. G-9

MODEL: T2 (Sheet)
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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 35: GRAND AVE OVER I-90/94 JFK (SN 016-2048)
 EXISTING STRUCTURE DETAILS

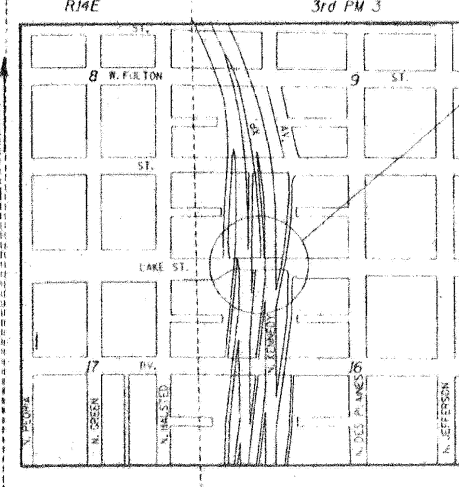
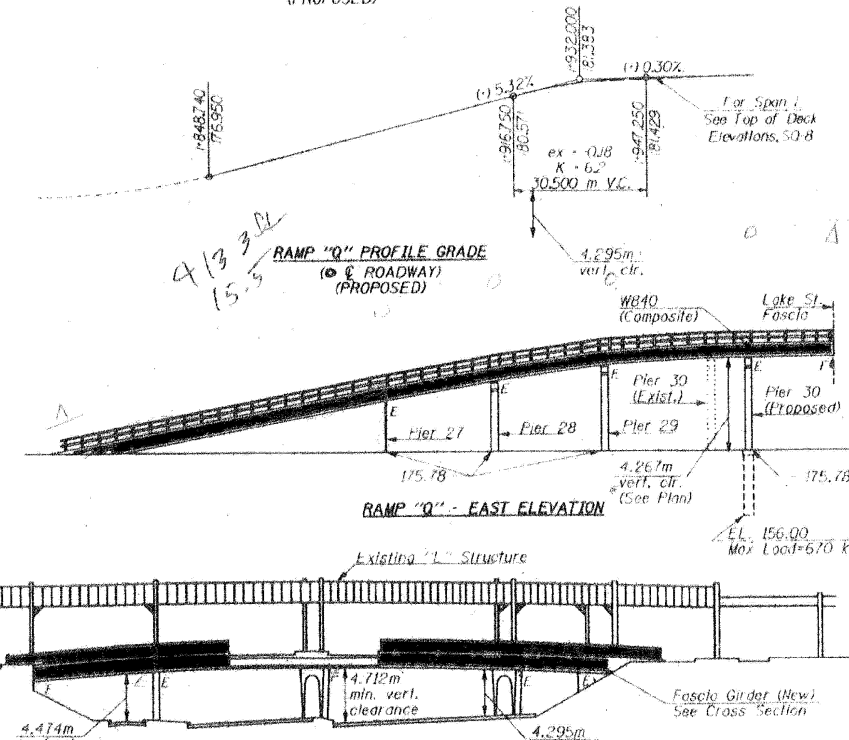
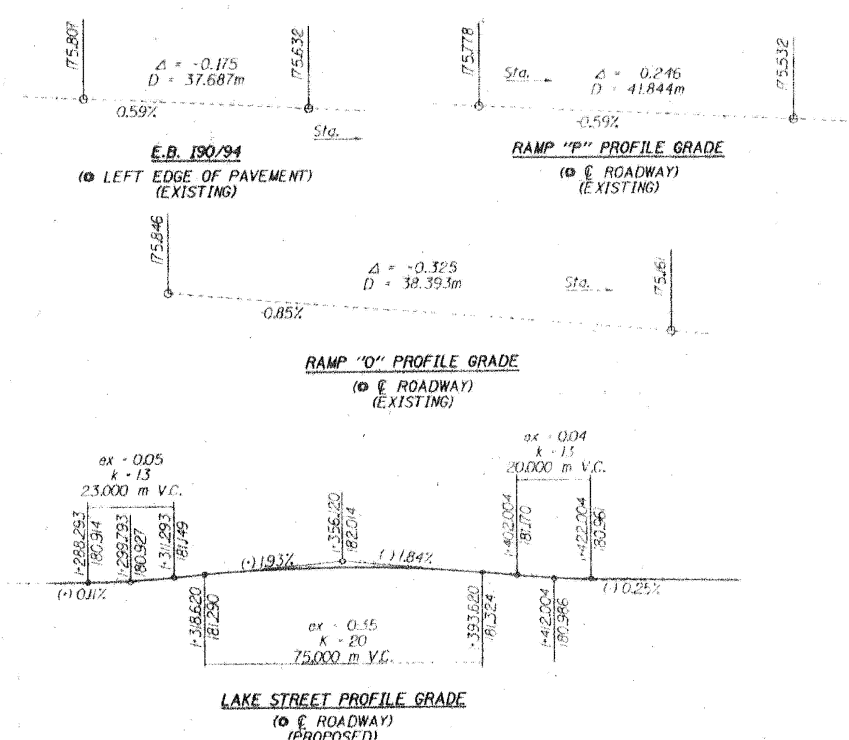
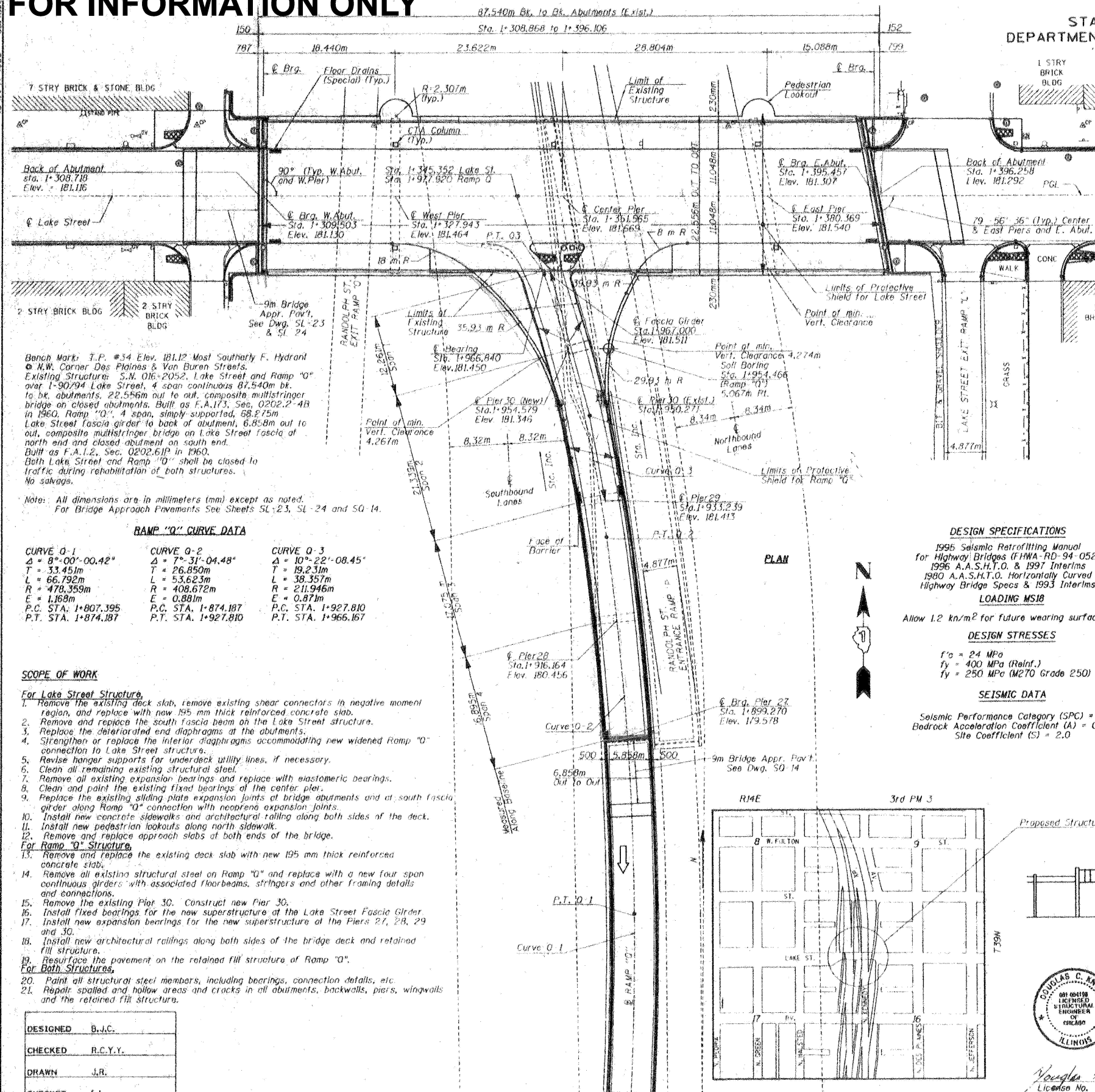
SCALE: SHEET 004 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	162
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
1405	0202.2-4B-R	COOK	192	60
SHEET NO. SL - 1				
SHEETS SL - 24				



DESIGNED	B.J.C.
CHECKED	R.C.Y.Y.
DRAWN	J.R.
CHECKED	F.L.

DOUGLAS C. ANTON
LICENSED STRUCTURAL ENGINEER
OF ILLINOIS
License No. 081-004098
License Expires 11/30/99

GENERAL PLAN
LAKE STREET (F.A.U. 1405)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0202.2-4B-R
COOK COUNTY
STA. 1+351.565
STRUCTURE NO. 016-2052
EDWARDS AND KELCEY

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 37: LAKE ST OVER I-90/94 JFK (SN 016-2052)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 001 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	163
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

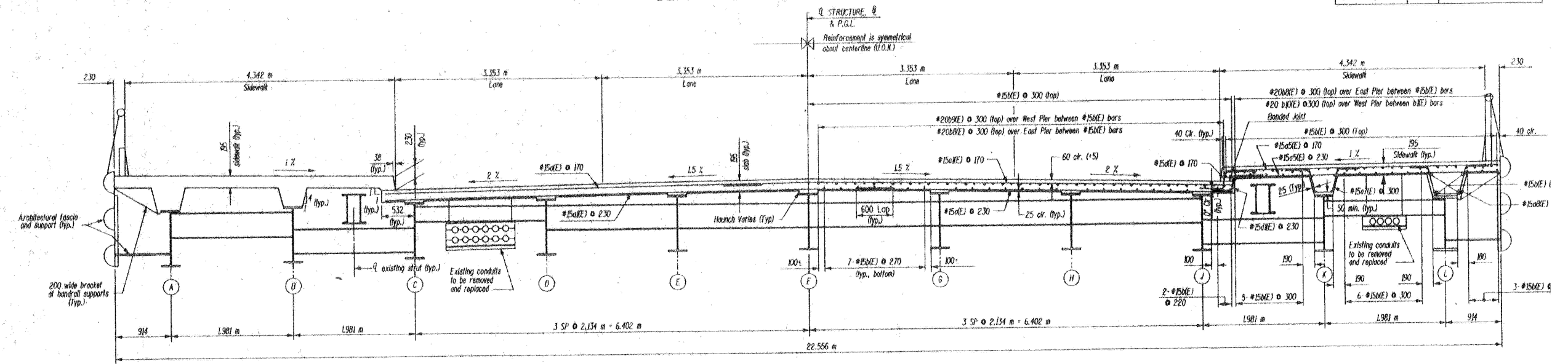
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FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

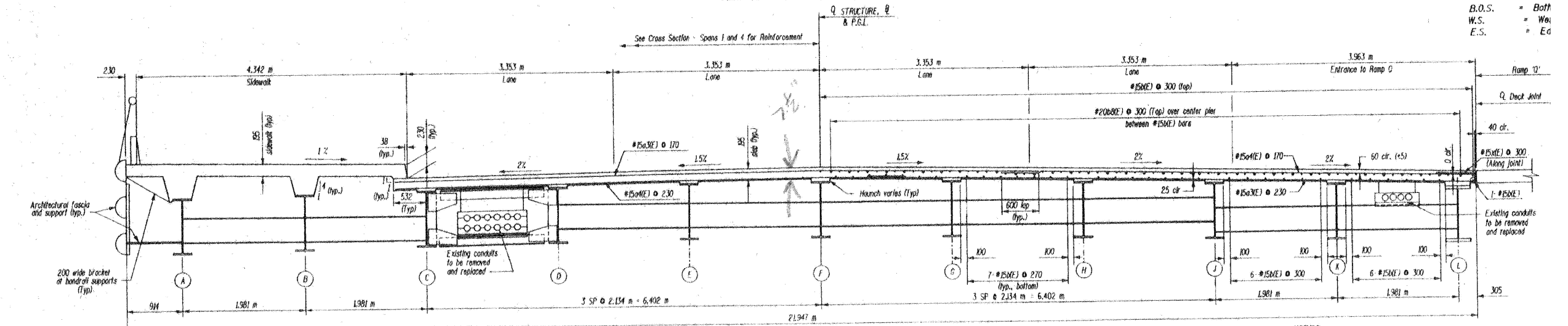
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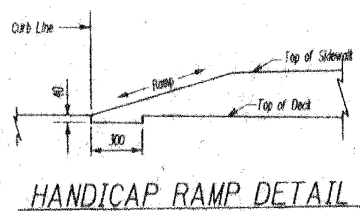
CROSS SECTION - LOOKING EAST
SPANS 1 AND 4 (END DIAPHRAGMS SHOWN)

LEGEND
T.O.S.S. = Top of Structure
T.O.S. = Top of Slab
B.O.S. = Bottom of Slab
W.S. = Working Surface
E.S. = Existing Surface

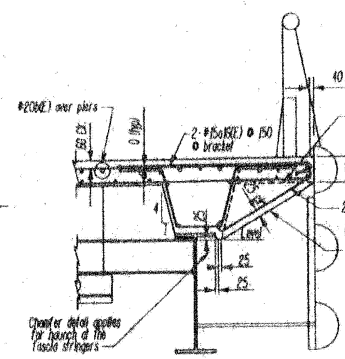


CROSS SECTION - LOOKING EAST
AT RAMP 'D' (INTERMEDIATE DIAPHRAGMS SHOWN)

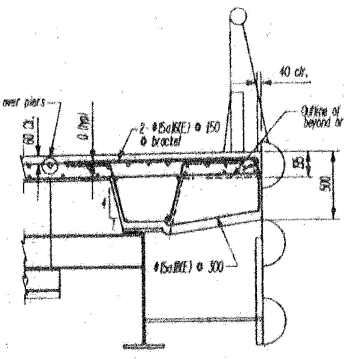
- NOTES:
- Remove and replace existing concrete deck. Special care to damage existing shear connectors of stringers A, B, L and K. See Shear connector details for stringers A, B, L and K. See Shear utilities shall be temporarily supported. Removal of axis to be included in the cost of Removal of Existing Concrete.
 - Remove and replace bearings as indicated on the Framing Plan.
 - Remove and replace stringer L, all end diaphragms and diaphragms as indicated on the Framing Plan.
 - Bars designated (E) are epoxy coated bars.
 - For conduit removal and replacement, see Sheet SL-22.
 - For bracket spacing, see sheet SL-11.
 - For exact bar marks and location, work this sheet with 5.



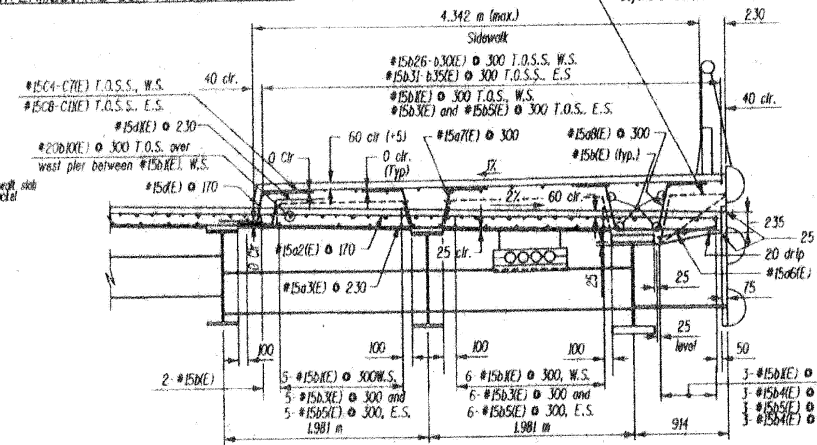
DESIGNED	REA
CHECKED	HMS
DRAWN	DAW
CHECKED	HMS



BRACKET DETAIL AT
HANDRAIL SUPPORT



BRACKET DETAIL AT
SIGN-MOUNT LOCATIONS



CROSS SECTION - LOOKING EAST
AT TRANSITION AREA

DECK CROSS SECTION
LAKE STREET (F.A.U.
OVER I-90/94 KENNEDY E)
SECTION 0202.2-41
COOK COUNTY
STA. 1+351.565
STRUCTURE NO. 016-

EDWARDS AND

MODEL: 74 (Sheet) FILE NAME: c:\pwworking\edwardsandkelly\11677701\02025-shr-typical.dgn

USER NAME	= Ivan.diaz	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 12/4/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 37: LAKE ST OVER I-90/94 JFK (SN 016-2052)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 002 OF 5 SHEETS STA. TO STA.

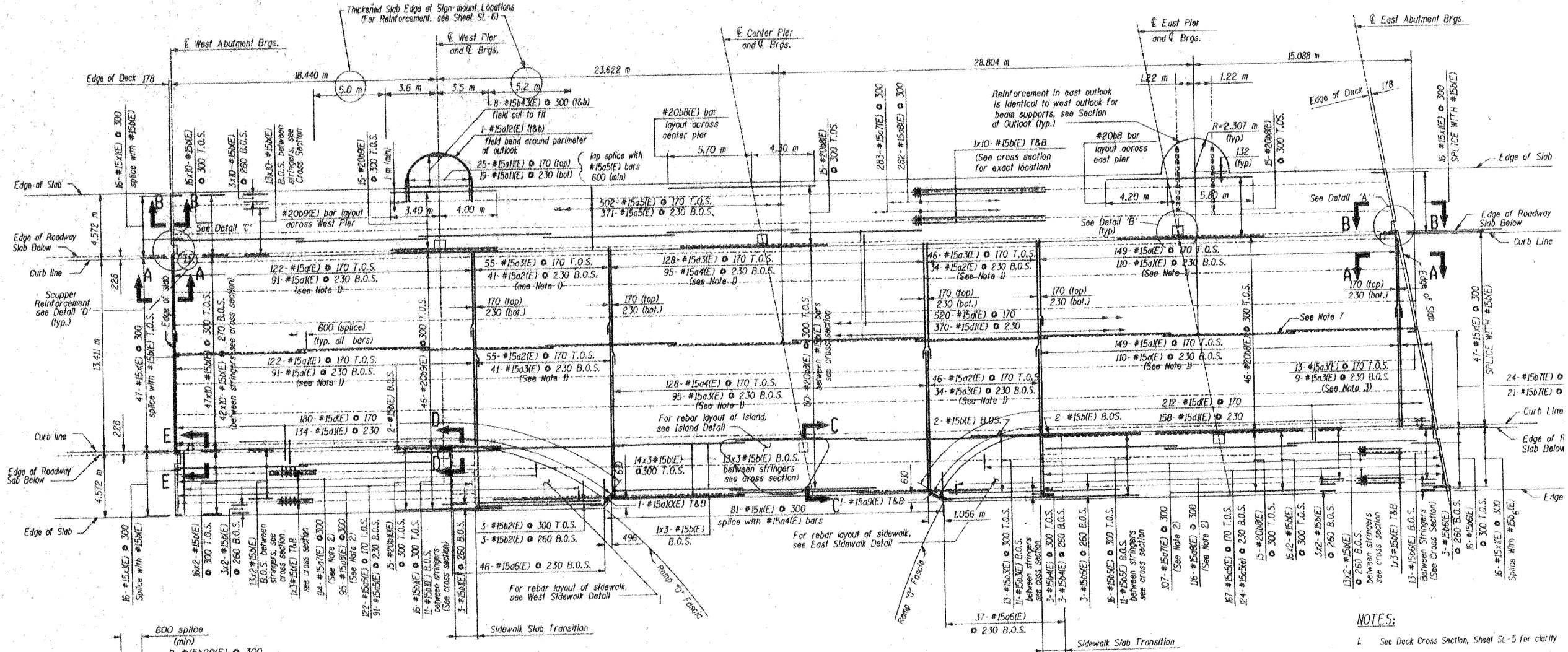
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	164
CONTRACT NO. 62X44			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

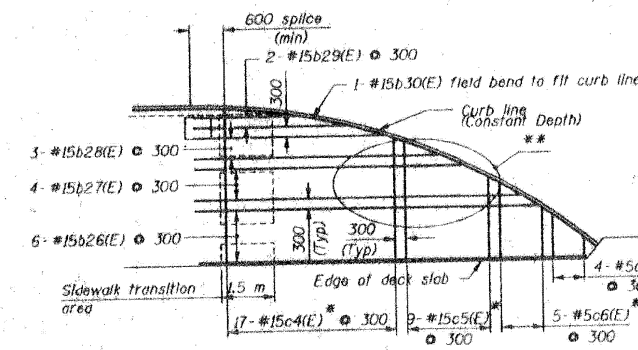
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1405	0202.2-4B-R	COOK	192	66
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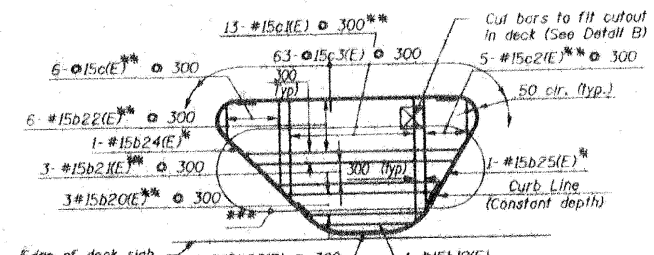


DECK PLAN



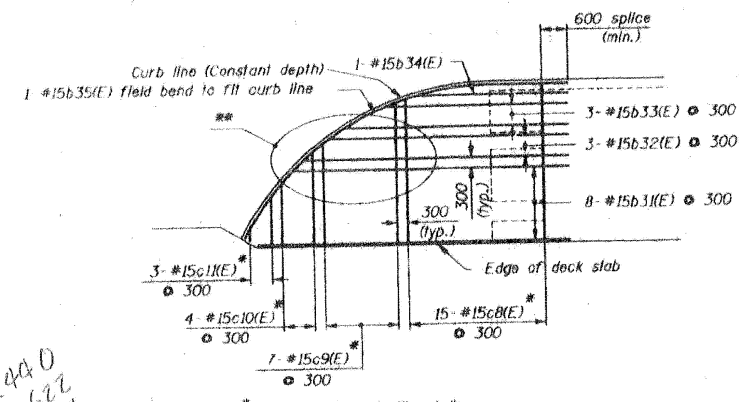
Note: All reinforcement shown is to be placed at the top of sidewalk slab.

WEST SIDEWALK DETAIL



Note: All reinforcement shown is to be placed at the top of sidewalk slab unless noted otherwise.

ISLAND DETAIL



Note: All reinforcement shown is to be placed at the top of sidewalk slab.

EAST SIDEWALK DETAIL

- NOTES:**
- See Deck Cross Section, Sheet SL-5 for clarity
 - Place bars beginning at each abutment until they reach. Bars are to extend into east and west.
 - Cut bars in field to fit skew and use the remainder at the opposite half of deck.
 - For joint geometry at Ramp D, see Deck Slab Plan Sheet SL-II.
 - Bars indicated thus: 42x10-#15 etc. indicate 42 l with 10 lengths per line.
 - For Sidewalk Slab Transition, Section at Outlook, I and D, see Deck Slab Details - I, Sheet SL-7. For Island and Sidewalk Layout and Dimensions, I.
 - All Longitudinal Reinforcement shall follow this Bar Splices shall be located at the same location.
 - Sections A-A through E-E shown on Sheet SL-B.

LEGEND
T.O.S. = Top of Slab
B.O.S. = Bottom of Slab

DECK SLAB PL
LAKE STREET (F.A.U
OVER I-90/94 KENNEDY E
SECTION 0202.2-4
COOK COUNTY
STA. 1+351.565
STRUCTURE NO. 016

EDWARDS AND

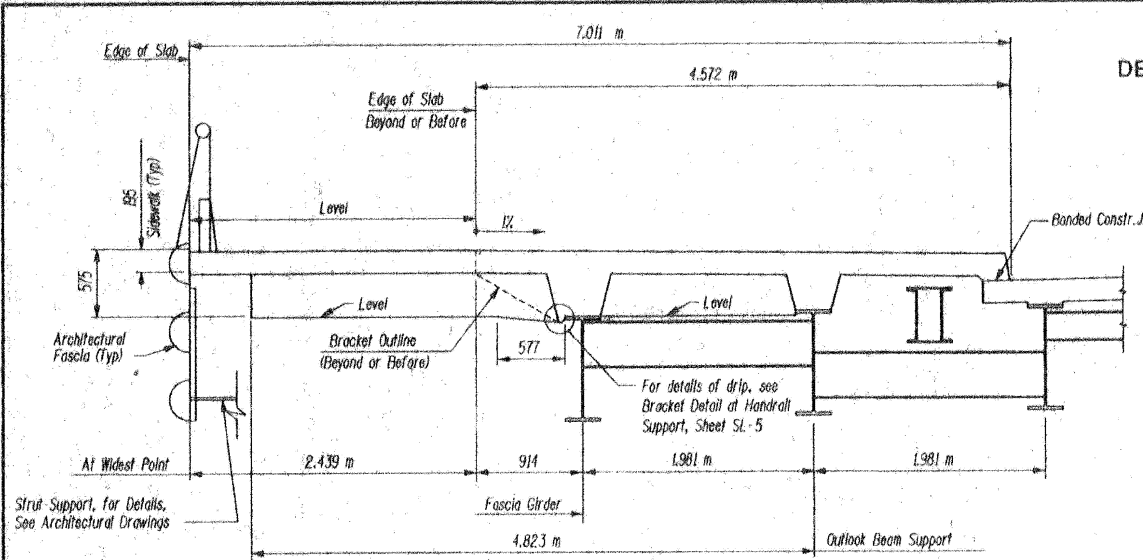
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CHECKED	HMS
DRAWN	DAW
CHECKED	HMS

USER NAME = ivan.diaz	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			LOCATION 37: LAKE ST OVER I-90/94 JFK (SN 016-2052) EXISTING STRUCTURE DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 12/4/2025	DRAWN -	REVISED -	SCALE:			SHEET 003 OF 5 SHEETS STA. TO STA.			VAR.	2024-1009-BDS	COOK	192	165
	CHECKED -	REVISED -							CONTRACT NO. 62X44				
	DATE -	REVISED -							ILLINOIS FED. AID PROJECT				

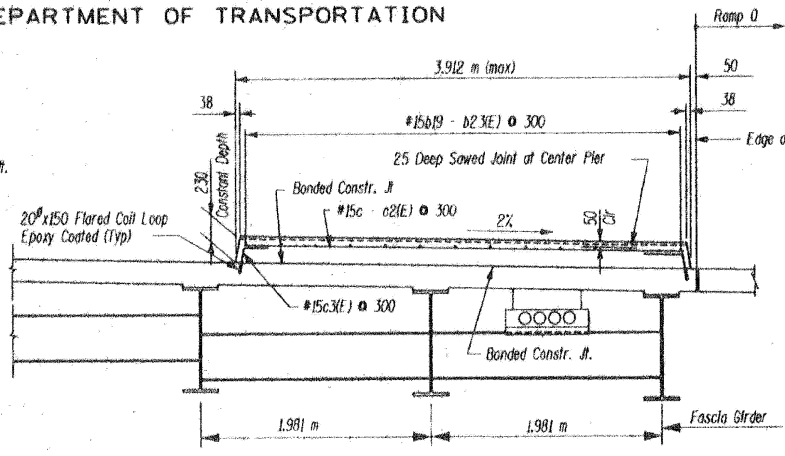
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **FOR INFORMATION ONLY**

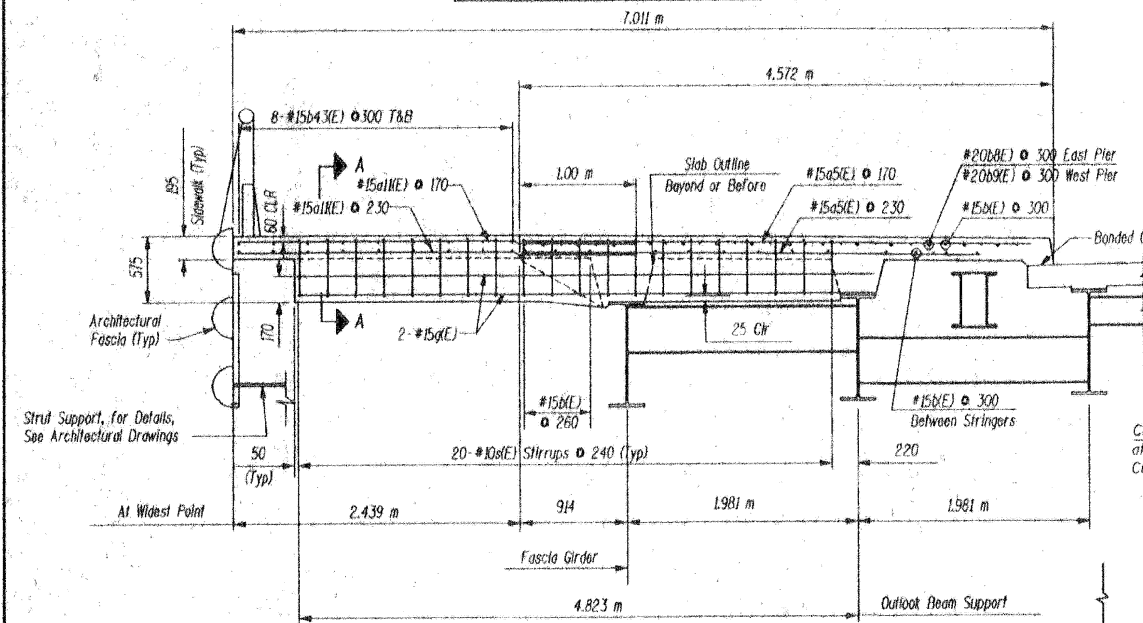
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JOB ROAD DIST. VOL. 1		BLK. NO.	JOB. NO. PROJECT	



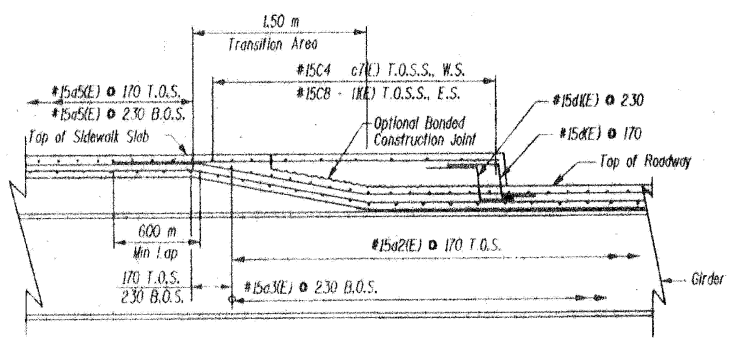
SECTION AT OUTLOOK



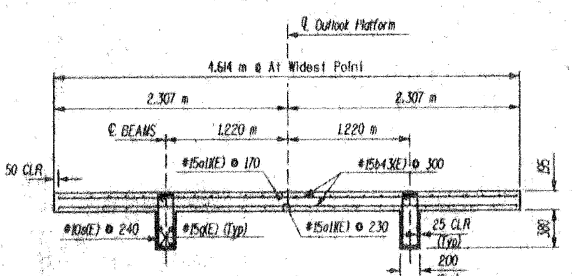
SECTION AT ISLAND MEDIAN



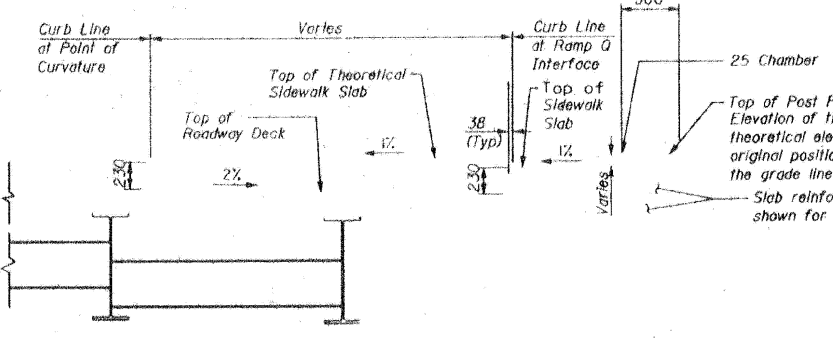
SECTION AT OUTLOOK BEAM SUPPORT



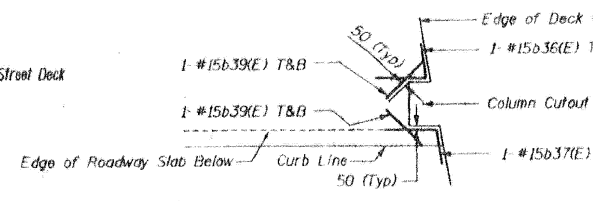
SECTION AT TRANSITION AREA



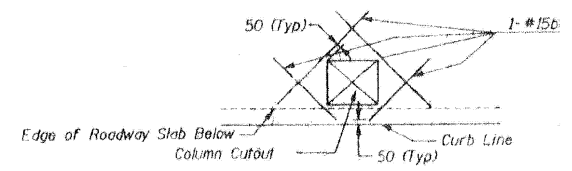
SECTION A-A



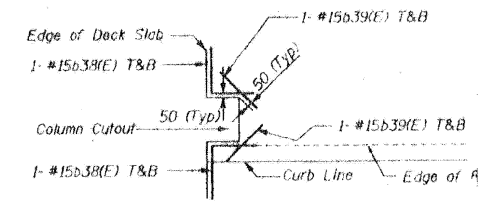
POST PEDESTAL DETAIL AT RAMP Q INTERFACE



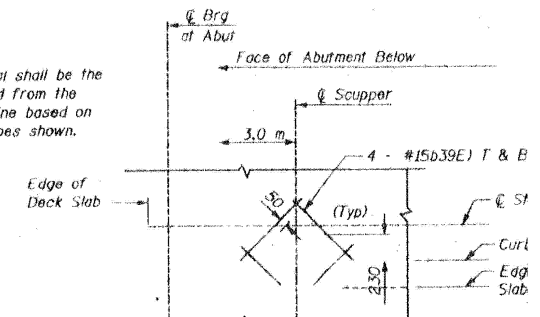
DETAIL A
Typ. 2 Locations (See Note 3)



DETAIL B
Typ. 6 Locations (See Note 3)



DETAIL C
Typ. 2 Locations (See Note 3)



DETAIL D - SCUPPER REINFORCEMENT
(See Note 3)

NOTE:
The Cost of Epoxy Coated Flared Coil Loop is Incidental to "Reinforcement Bars Epoxy Coated".

- Notes:
- Bars designated (E) are epoxy coated bars.
 - For Details A, B, C and D Locations, see "Deck Slab Plan" Sheet SL-6.
 - Reinforcement shall be field cut to fit scupper and column cut outs. Provide 50mm Clr from rebar cut to slab edge.

LEGEND
T.O.S. - Top of Slab
T.O.S.S. Top of Sidewalk Slab
B.O.S. Bottom of Slab
W.S. West Sidewalk
E.S. East Sidewalk

BILL OF MATERIAL - SUPERSTRUCTURE		
DESCRIPTION	UNIT	TOTAL
REMOVAL OF EXISTING CONCRETE DECK	Each	1
NEOPRENE EXPANSION JOINT, 100 mm	Meter	42.0
CONCRETE SUPERSTRUCTURE	Cu.M.	462.3
BRIDGE DECK GROOVING	Sq. M.	1250
STUD SHEAR CONNECTORS	Each	2959
JACKING AND CRIBBING	Each	40
REINFORCEMENT BARS, EPOXY COATED	Kg.	71273
CLEANING AND PAINTING STEEL BRIDGE	L. Sum	1
PROTECTIVE COAT	Sq. M.	2178
PROTECTIVE SHIELD	Sq. M.	1752

DECK SLAB DETAILS
OVER I-90/94 KENNEDY EX
SECTION 0202.2-4E
COOK COUNTY
STA. 1+351.565
STRUCTURE NO. 016-1

EDWARDS AND M

DESIGNED	REA
CHECKED	HMS
DRAWN	DAW
CHECKED	HMS

USER NAME	= ivan.diaz	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 12/4/2025	DATE	-	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

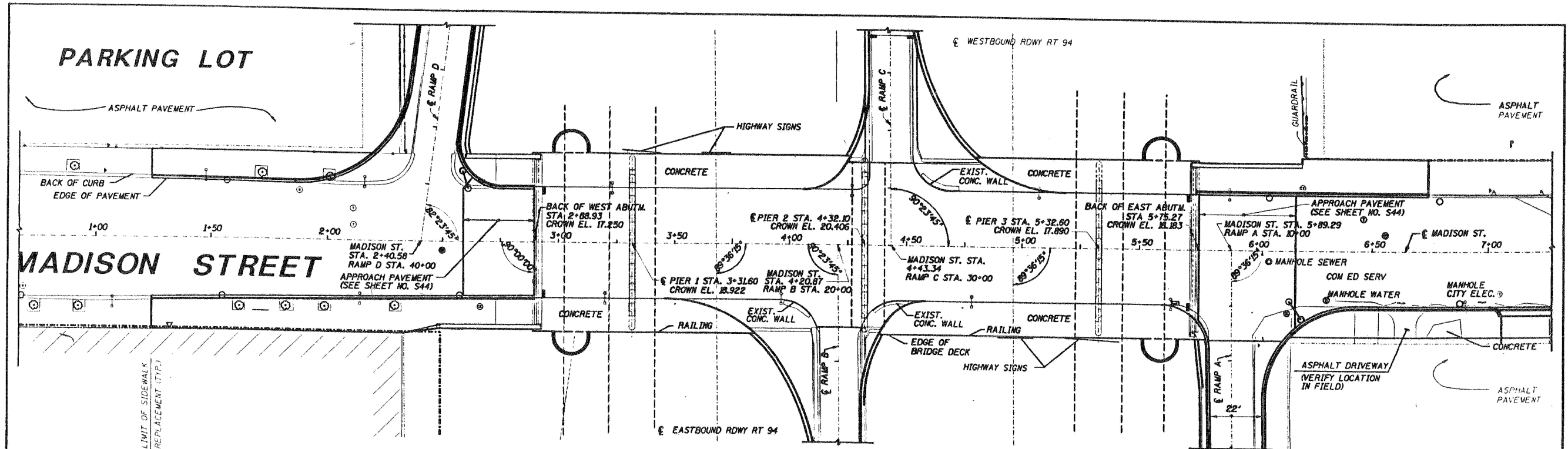
LOCATION 37: LAKE ST OVER I-90/94 JFK (SN 016-2052)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 004 OF 5 SHEETS STA. TO STA.

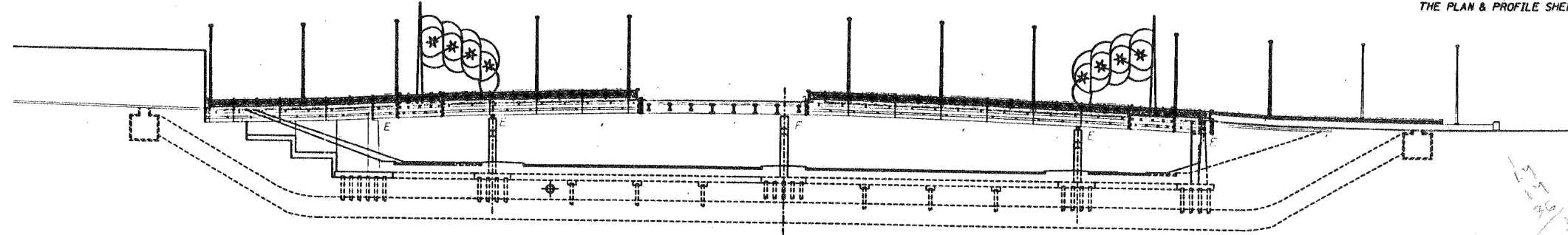
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	166
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

MODEL: 76 (Sheet)
FILE NAME: c:\pwworking\edwardsandmccormick\11677701\02025-shr-typical.dgn

FOR INFORMATION ONLY



- NOTE: 1. PROPOSED ITEMS IN BOLD
 2. LIMITS OF PAVING SHOWN ON SHEETS S4-S8
 3. LIMITS OF SIDEWALK, CURB, AND GUTTER REMOVAL AND REPLACEMENT ARE SHOWN ON THE PLAN & PROFILE SHEETS.



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
OF NON ARCHITECTURAL FEATURES
Ralph E. Anderson
Engineer of Bridges and Structures



- EXISTING CURBLINE / EDGE OF DECK
- PROPOSED CURBLINE / EDGE OF DECK
- - - ROADWAY CENTERLINE
- R.O.W. / PROPERTY BOUNDARY

<table border="1"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td colspan="4">REVISIONS</td> </tr> </tbody> </table>	NO.	BY	DATE	DESCRIPTION	REVISIONS				<p>PROPOSED MADISON STREET GENERAL PLAN AND ELEVATION MADISON ST. OVER I-90/94</p> <p>CDI CLARK DIETZ, INC. ENGINEERS ARCHITECTS</p> <p>516 S. JEFFERSON SUITE 303 CHICAGO, IL. 60661 312.649.9900 CHICAGO, IL.</p> <p>RENOSSA, UT. CHICAGO, IL.</p>	<p>CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION BUREAU OF BRIDGES & TRANSIT</p> <p>DRAWN: BF.KB.VC.WH SHEET NO. S2</p> <p>CHECKED: RAO APPROVED: OER DATE: 2-9-98 SCALE: CONTRACT NO. T49184203-08 PROJECT NO. C27010</p>
	NO.	BY	DATE	DESCRIPTION						
REVISIONS										

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USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

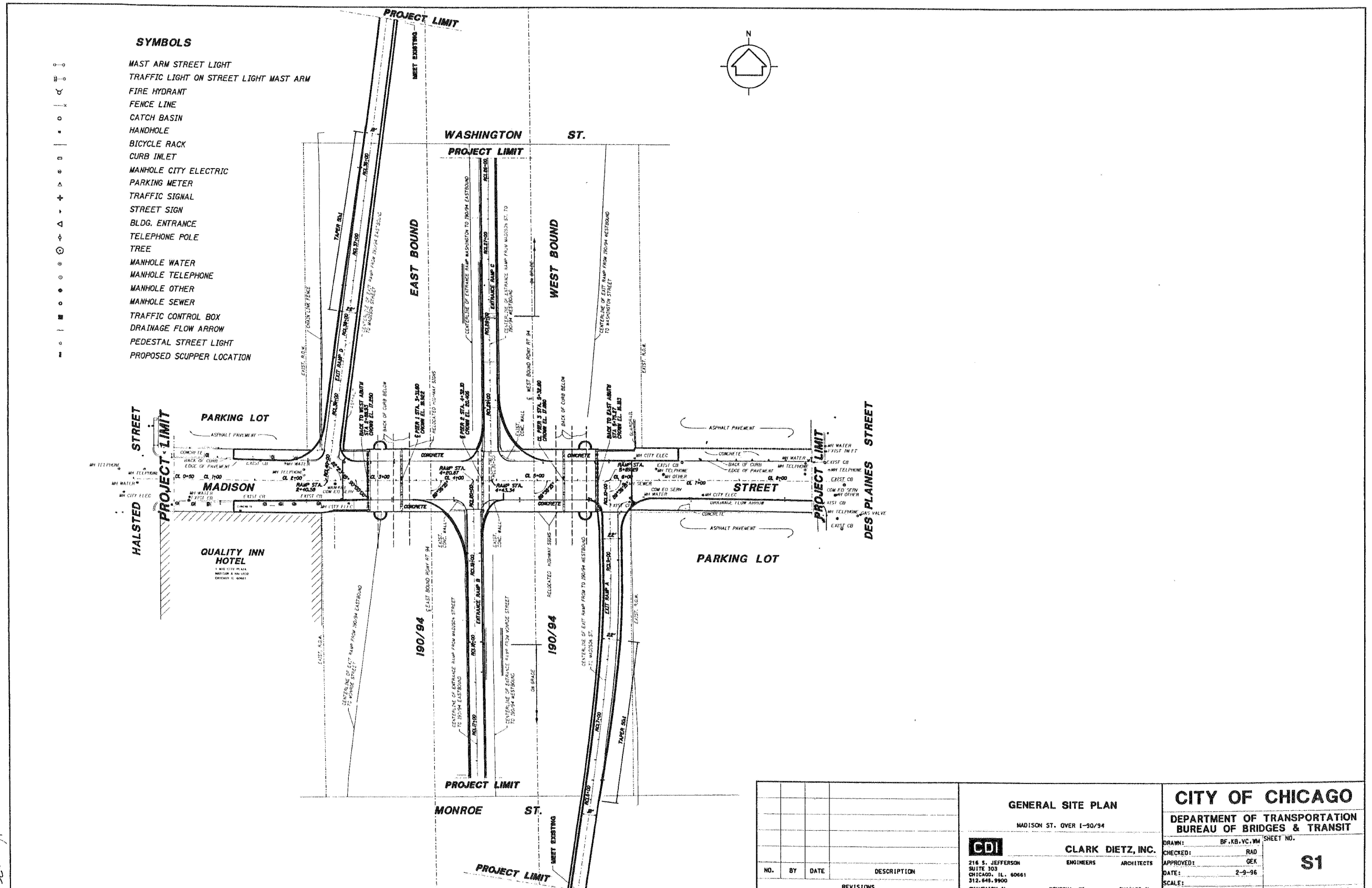
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 38: MADISON ST OVER I-90/94 JFK (SN 016-2053)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 001 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	168
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



- SYMBOLS**
- MAST ARM STREET LIGHT
 - TRAFFIC LIGHT ON STREET LIGHT MAST ARM
 - FIRE HYDRANT
 - FENCE LINE
 - CATCH BASIN
 - HANDHOLE
 - BICYCLE RACK
 - CURB INLET
 - MANHOLE CITY ELECTRIC
 - PARKING METER
 - TRAFFIC SIGNAL
 - STREET SIGN
 - BLDG. ENTRANCE
 - TELEPHONE POLE
 - TREE
 - MANHOLE WATER
 - MANHOLE TELEPHONE
 - MANHOLE OTHER
 - MANHOLE SEWER
 - TRAFFIC CONTROL BOX
 - DRAINAGE FLOW ARROW
 - PEDESTAL STREET LIGHT
 - PROPOSED SCUPPER LOCATION

NO.	BY	DATE	DESCRIPTION
REVISIONS			

GENERAL SITE PLAN
MADISON ST. OVER I-90/94

CDI
CLARK DIETZ, INC.
ENGINEERS ARCHITECTS
216 S. JEFFERSON
CHICAGO, IL. 60661
312.645.9900
CHAMPAIN, IL. KENOSHA, WI. CHICAGO, IL.

CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGES & TRANSIT

DRAWN: BF.KB.VC.WM SHEET NO.
CHECKED: RAD
APPROVED: GEK
DATE: 2-9-96
SCALE:
CONTRACT NO.: T49184203-08 PROJECT NO.: CZ1010

S1

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

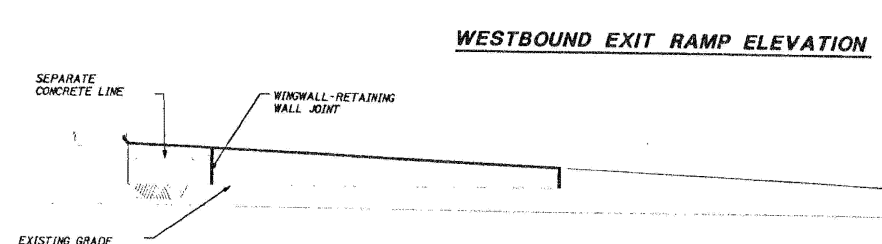
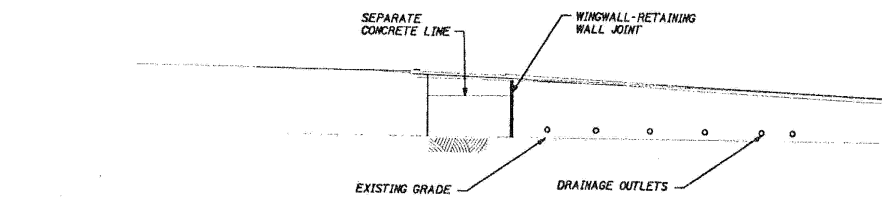
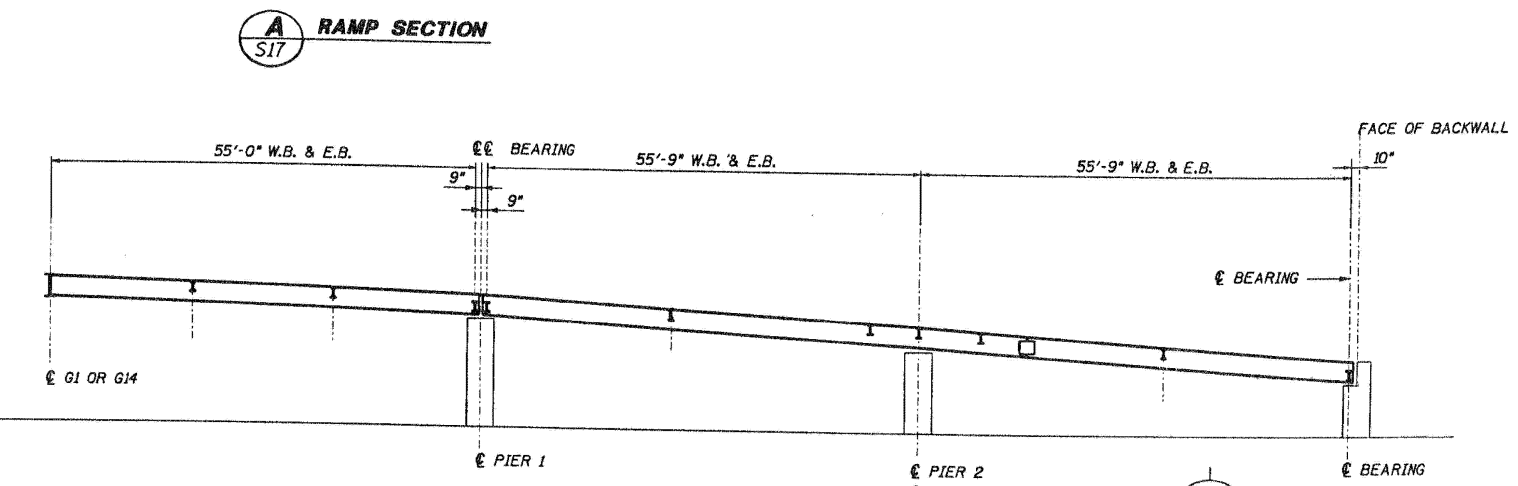
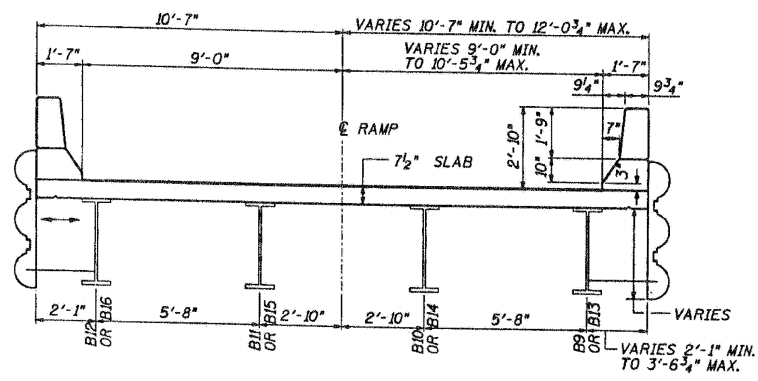
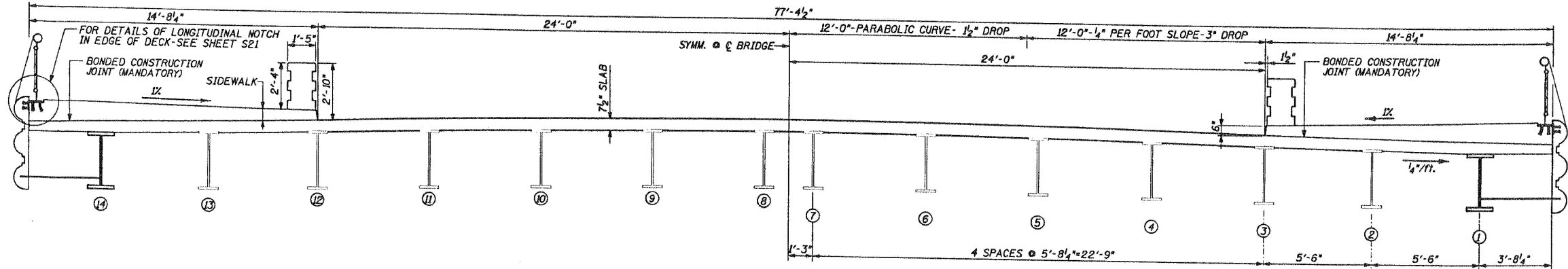
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 38: MADISON ST OVER I-90/94 JFK (SN 016-2053)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 002 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2024-1009-BDS	COOK	192	169
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



MADISON STREET AND RAMPWAY SECTIONS / ELEVATIONS MADISON ST. OVER I-90/94		CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION BUREAU OF BRIDGES & TRANSIT	
CDI 214 S. JEFFERSON SUITE 303 CHICAGO, IL. 60681 312.648.8900 CHAMPAIGN, IL.		CLARK DIETZ, INC. ENGINEERS ARCHITECTS KENOSHA, WI. CHICAGO, IL.	
DRAWN: BF, KS, VC, MW CHECKED: RAD APPROVED: GEK DATE: 3-5-96 SCALE:		SHEET NO. S8 CONTRACT NO.: T49184203-08 PROJECT NO.: C27010	

USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

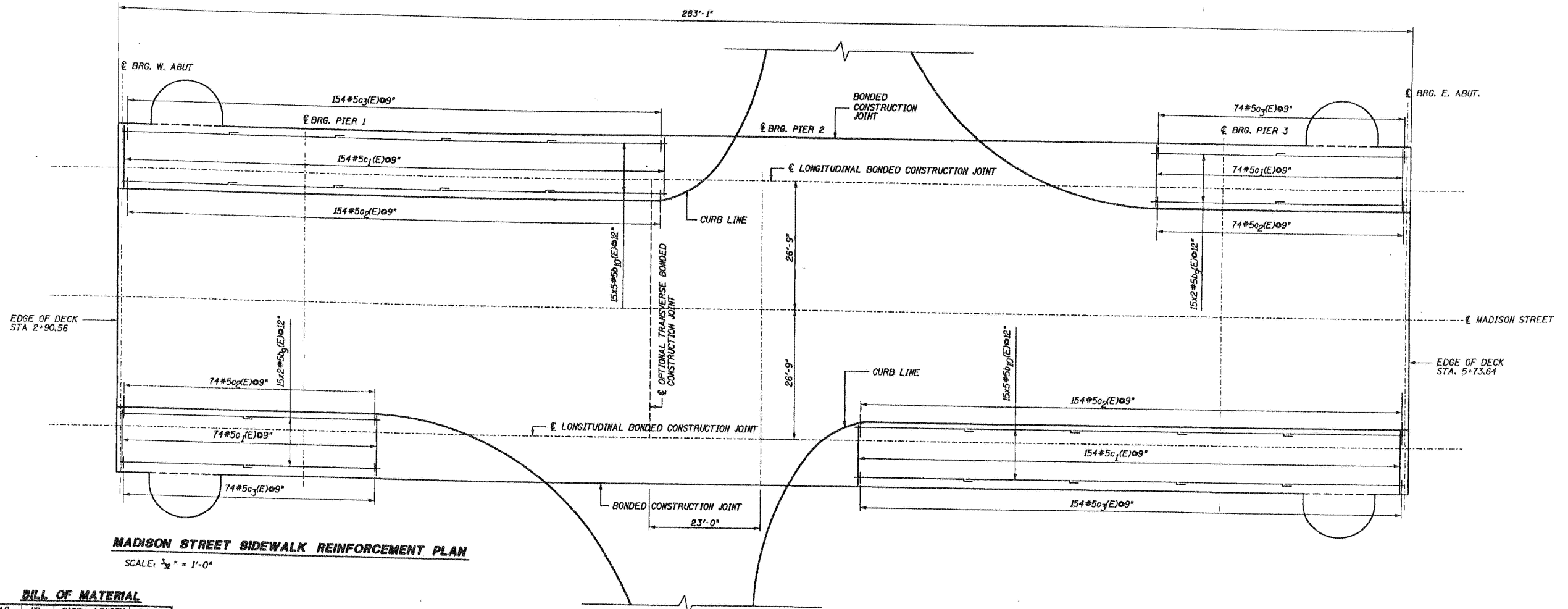
LOCATION 38: MADISON ST OVER I-90/94 JFK (SN 016-2053)
EXISTING STRUCTURE DETAILS

SCALE: SHEET 003 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2024-1009-BDS	COOK	192	170
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

MODEL: 80 (Sheet)
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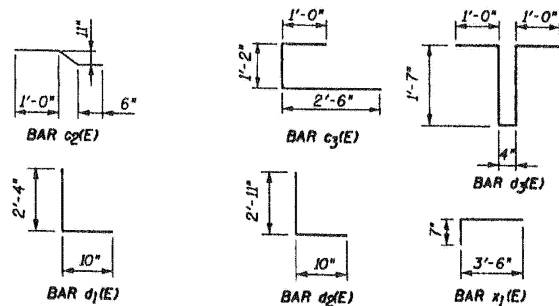
MADISON STREET SIDEWALK REINFORCEMENT PLAN
SCALE: 1/8" = 1'-0"

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a ₁ (E)	1520	#5	30'-0"	
a ₂ (E)	760	#5	21'-3"	
a ₃ (E)	76	#5	11'-4"	
a ₄ (E)	16	#5	5'-0"	
a ₅ (E)	32	#5	2'-0"	
b ₁ (E)	1600	#5	28'-9"	
b ₂ (E)	160	#5	14'-6"	
b ₃ (E)	40	#5	13'-10"	
b ₄ (E)	24	#6	21'-6"	
b ₅ (E)	24	#6	29'-0"	
b ₆ (E)	24	#6	18'-9"	
b ₇ (E)	260	#6	22'-9"	
b ₈ (E)	130	#6	26'-3"	
b ₉ (E)	60	#5	28'-4"	
b ₁₀ (E)	150	#5	24'-8"	
c ₁ (E)	456	#5	14'-4"	
c ₂ (E)	456	#5	2'-5"	
c ₃ (E)	456	#5	4'-8"	
d ₁ (E)	474	#5	3'-2"	
d ₂ (E)	176	#5	3'-9"	
d ₃ (E)	305	#4	3'-11"	
x ₁ (E)	156	#5	4'-0"	

CONCRETE SUPER STRUCTURE	CU. YD.	730
REINFORCEMENT BARS / (EPOXY COATED)	POUND	152,695
BRIDGE DECK GROOVING	SO. YD.	2501
PROTECTIVE COAT	SO. YD.	2501
NAME PLATES	EACH	1

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED. BARS INDICATED THUS 1x2 - #5 ETC. INDICATES 1 LINE OF BARS WITH 2 LENGTHS PER LINE. THE ABOVE QUANTITIES INCLUDE VALUES FOR MAINDECK, SIDEWALK & PODS, AND DOWEL BARS FOR BOLLARDS, FLAG ANCHORAGE FILL, AND LIGHT POLES.



- POURING SEQUENCE:**
- 1-2. MADISON ST. LONGITUDINAL CONSTRUCTION JOINT TO LONGITUDINAL CONSTRUCTION JOINT.
 - 1) WEST ABUTMENT TO OPTIONAL TRANSVERSE BONDED CONSTRUCTION JOINT.
 - 2) OPTIONAL TRANSVERSE BONDED CONSTRUCTION JOINT TO EAST ABUTMENT.
 - 3-4. MADISON ST. LONGITUDINAL CONSTRUCTION JOINT TO EDGE OF DECK.
 - 5-6. EASTBOUND & WESTBOUND RAMP-EDGE OF MADISON ST. DECK TO PIER 1
 - 7-8. EASTBOUND & WESTBOUND RAMP-PIER 1 TO RAMP ABUTMENT.

<p>NO. BY DATE DESCRIPTION</p> <p>REVISIONS</p>	<p>MADISON STREET SIDEWALK DECK PLAN MADISON ST. OVER I-90/94</p> <p>CDI 216 S. JEFFERSON SUITE 303 CHICAGO, IL. 60681 312.648.9900 CHAMPAIGN, IL.</p> <p>CLARK DIETZ, INC. ENGINEERS ARCHITECTS KENOSHA, WI. CHICAGO, IL.</p>	<p>CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION BUREAU OF BRIDGES & TRANSIT</p> <p>DRAWN: BF, KB, VC, WM CHECKED: RAD APPROVED: GEX DATE: 3-5-96 SCALE: CONTRACT NO.: T49184203-08 PROJECT NO.: C27010</p> <p style="font-size: 2em; font-weight: bold;">S17A</p>
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USER NAME = ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

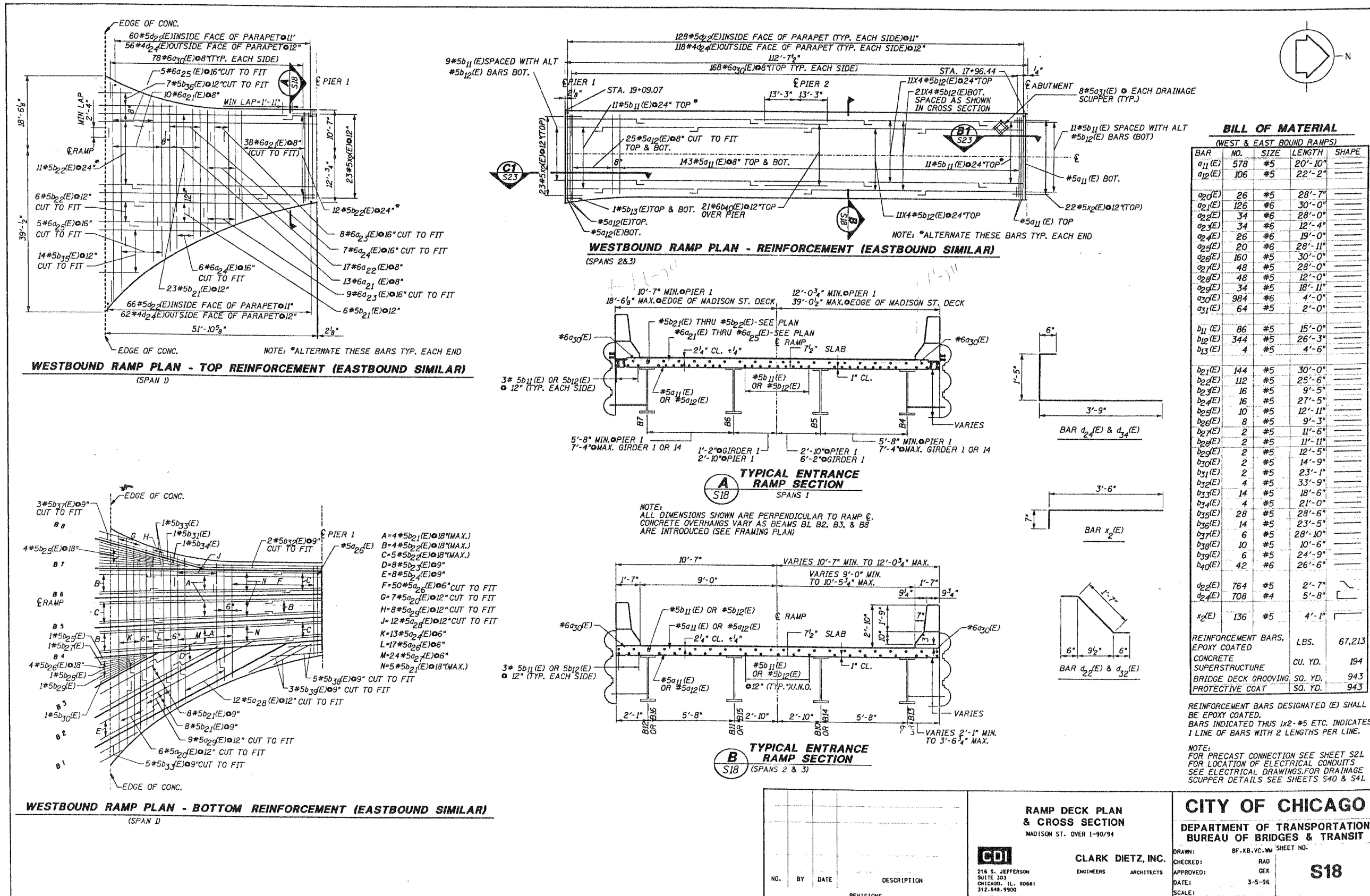
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 38: MADISON ST OVER I-90/94 JFK (SN 016-2053)
EXISTING STRUCTURE DETAILS**

SCALE: SHEET 005 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2024-1009-BDS	COOK	192	172
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



MODEL: 83 (Sheet)
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		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 12/4/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 38: MADISON ST OVER I-90/94 JFK (SN 016-2053)
 EXISTING STRUCTURE DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	173
CONTRACT NO. 62X44				
SCALE:		ILLINOIS FED. AID PROJECT		

RAMP DECK PLAN & CROSS SECTION
 MADISON ST. OVER I-90/94

CDI
 216 S. JEFFERSON
 SUITE 303
 CHICAGO, IL. 60661
 312.646.9900
 CHAMPAIGN, IL.

CLARK DIETZ, INC.
 ENGINEERS ARCHITECTS
 KENOSHA, WI. CHICAGO, IL.

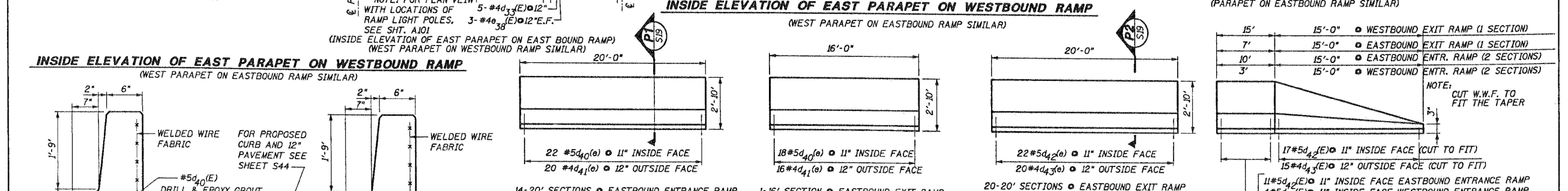
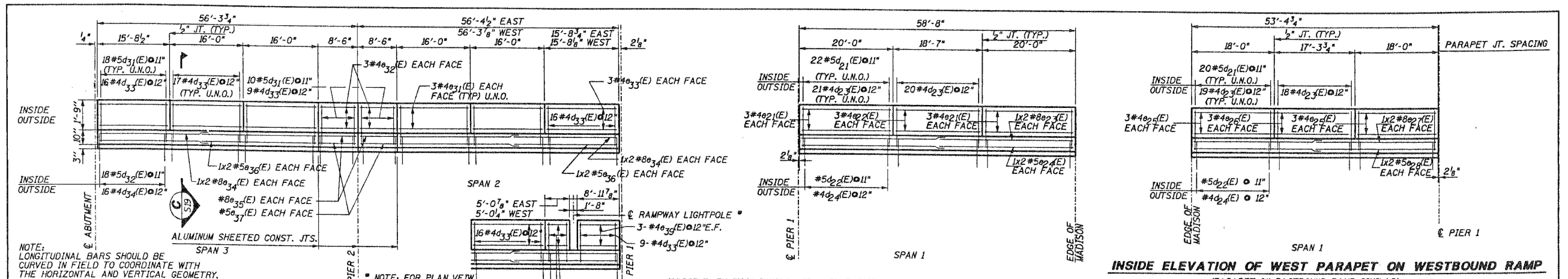
DRAWN: BF, KB, VC, WM
 CHECKED: RAD
 APPROVED: GEX
 DATE: 3-5-96
 SCALE:
 CONTRACT NO.: T49184203-08 PROJECT NO.: C27010

CITY OF CHICAGO
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF BRIDGES & TRANSIT

S18

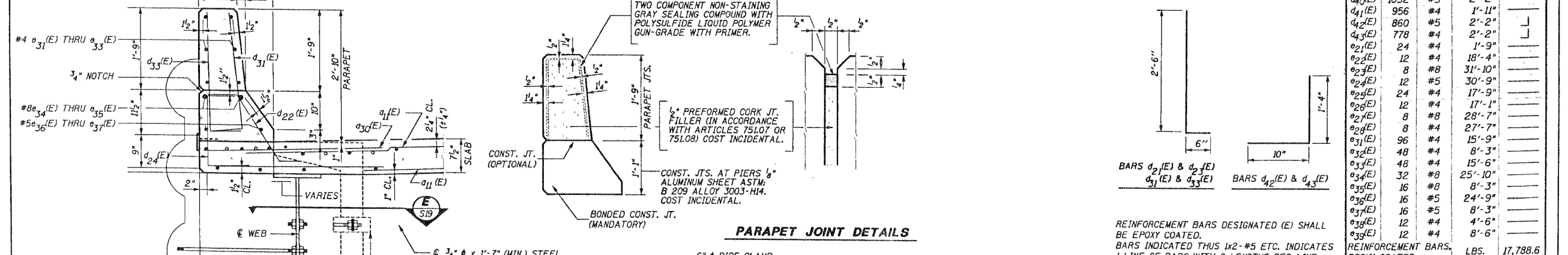
NO.	BY	DATE	DESCRIPTION

FOR INFORMATION ONLY



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
d ₂₁ (E)	252	#5	3'-0"	□
d ₂₃ (E)	236	#4	3'-0"	□
d ₃₁ (E)	512	#5	3'-0"	□
d ₃₃ (E)	468	#4	3'-0"	□
d ₄₀ (E)	1052	#5	2'-2"	□
d ₄₁ (E)	956	#4	1'-11"	□
d ₄₂ (E)	860	#5	2'-2"	□
d ₄₃ (E)	778	#4	2'-2"	□
d ₂₁ (E)	24	#4	1'-9"	□
d ₂₂ (E)	12	#4	18'-4"	□
d ₂₃ (E)	8	#8	31'-10"	□
d ₂₄ (E)	12	#5	30'-9"	□
d ₂₅ (E)	24	#4	17'-9"	□
d ₂₆ (E)	12	#4	17'-1"	□
d ₂₇ (E)	8	#8	28'-7"	□
d ₂₈ (E)	8	#4	27'-7"	□
d ₂₉ (E)	96	#4	15'-9"	□
d ₃₀ (E)	48	#4	8'-3"	□
d ₃₂ (E)	48	#4	15'-6"	□
d ₃₄ (E)	32	#8	25'-10"	□
d ₃₅ (E)	16	#8	8'-3"	□
d ₃₆ (E)	16	#5	24'-9"	□
d ₃₇ (E)	16	#5	8'-3"	□
d ₃₈ (E)	12	#4	4'-6"	□
d ₃₉ (E)	12	#4	8'-6"	□



NOTES:
 THE EXTERIOR SURFACES OF THE FLOOR DRAINS SHALL BE PAINTED WITH THE FINISH COAT AS SPECIFIED IN THE SPECIAL PROVISIONS FOR CLEANING AND PAINTING METAL STRUCTURES. THE EXTERIOR SURFACES OF THE DRAIN SHALL BE CLEANED AND GIVEN A WASHCOAT PRETREATMENT IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL'S SPEC. SSPC-SP1 & SSPC-PAINT 27 PRIOR TO PAINTING.
 FIBERGLASS PIPE SHALL CONFORM TO ASTM D2996, WITH SHORT-TIME RUPTURE STRENGTH HOOP TENSILE STRESS OF 30,000 P.S.I. MINIMUM. THE SURFACE OF THE FIBERGLASS PIPE SHALL BE FREE OF BOND INHIBITING AGENTS.

PARAPET JOINT DETAILS
 TWO COMPONENT NON-STAINING GRAY SEALING COMPOUND WITH POLYSULFIDE LIQUID POLYMER GUN-GRADE WITH PRIMER.
 1/2" PREFORMED CORK JT. FILLER (IN ACCORDANCE WITH ARTICLES 75107 OR 75108) COST INCIDENTAL.
 CONST. JTS. AT PIERS 1/2" ALUMINUM SHEET ASTM B 209 ALLOY 3003-H14. COST INCIDENTAL.
 BONDED CONST. JT. (MANDATORY)

SECTION THRU PARAPET
 3/4" x 1'-7" (MIN.) STEEL STUD BOLTS THREADED 6" EACH END WITH 2 WASHERS & LOCKNUT
 6" x 6" HOLES IN WEB (MAY BE DRILLED IN FIELD)

RAMP PARAPET DETAILS
 MADISON ST. OVER I-90/94
CDI
 218 S. JEFFERSON SUITE 303 CHICAGO, IL 60661 312.548.9900 CHAMPAIGN, IL.
CLARK DIETZ, INC.
 ENGINEERS ARCHITECTS
 KENOSHA, WI. CHICAGO, IL.

CITY OF CHICAGO
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF BRIDGES & TRANSIT
 DRAWN: BF, KB, VC, WM
 CHECKED: RAD
 APPROVED: GEX
 DATE: 3-5-96
 SCALE:
 CONTRACT NO.: T49184203-08 PROJECT NO.: C27010

S19

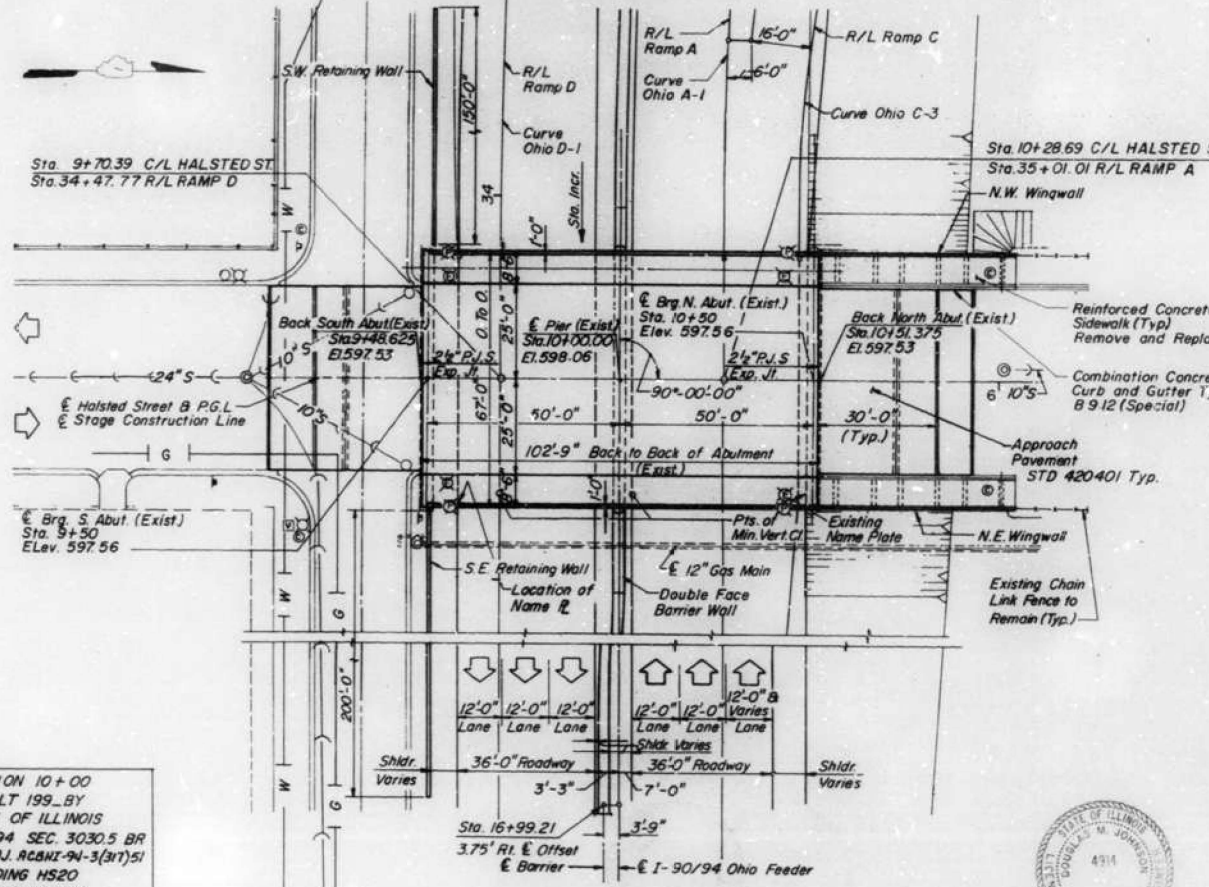
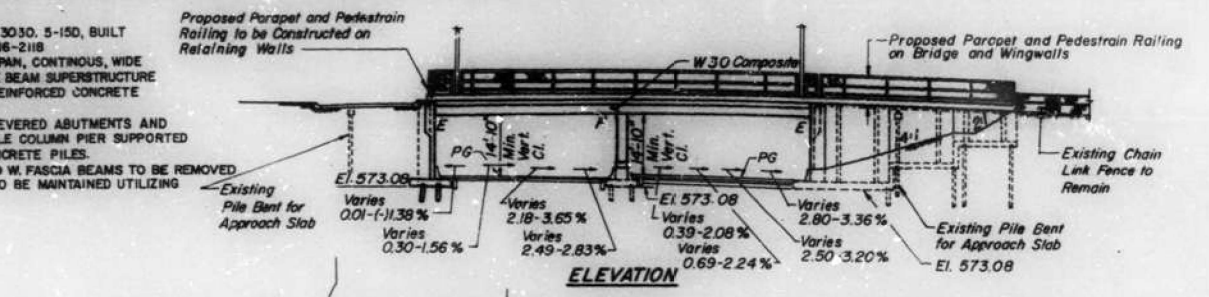
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USER NAME = Ivan.diaz	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 38: MADISON ST OVER I-90/94 JFK (SN 016-2053) EXISTING STRUCTURE DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN -	REVISED -			VAR.	2024-1009-BDS	COOK	192	174	
	CHECKED -	REVISED -			CONTRACT NO. 62X44					
PLOT DATE = 12/4/2025	DATE -	REVISED -	SCALE:	SHEET 007 OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

FOR INFORMATION ONLY

BENCH MARK
 BM #OH-100 ELEVATION = 582.22 CHISELED SQUARE (I) ON THE NORTHEAST CORNER OF CRASHWALL AT PIER #2 UNDER THE MILWAUKEE AVENUE BRIDGE WESTBOUND. STA. 111+92 ±, 19' RT ± OF RAMP C BASELINE.
 NOTE: THIS BENCH MARK HAS BEEN ADJUSTED DOWN 0.24' TO REFLECT THE FIELD SURVEY.

EXISTING STRUCTURE
 FAP - ROUTE 876, SEC 057-30.50, 5-150, BUILT IN 1958, STRUCTURE NO. 016-2118
 SUPERSTRUCTURE: TWO SPAN, CONTINUOUS, WIDE FLANGE BEAM SUPERSTRUCTURE WITH REINFORCED CONCRETE DECK
 SUBSTRUCTURE: CANTILEVERED ABUTMENTS AND MULTIPLE COLUMN PIER SUPPORTED BY CONCRETE PILES.
 EXISTING DECK AND E. AND W. FASCIA BEAMS TO BE REMOVED AND REPLACED. TRAFFIC TO BE MAINTAINED UTILIZING STAGE CONSTRUCTION.



STATION 10+00
 REBUILT 199... BY
 STATE OF ILLINOIS
 F.A.I. RT. 90/94 SEC. 30.30.5 BR
 F.A. PROJ. RC&N-94-3(31)51
 LOADING HS20
 STR. NO. 016-2118

NAME PLATE
 (See Std. 515001)

HNTB
 HONORING NICHOLAS TRAVEN & ASSOCIATES

DESIGNED	H.J.G.
CHECKED	---
DRAWN	T.S.S.
CHECKED	K.J.H.

HORIZONTAL CURVE DATA

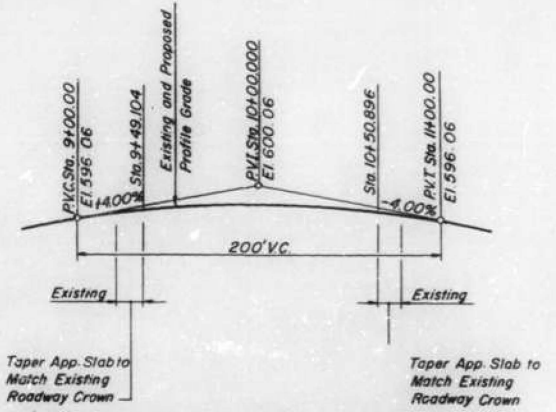
F.A.I. ROUTE 90/94 OHIO FEEDER			
CURVE OHIO C-3	CURVE OHIO A-1	CURVE OHIO D-1	
RAMP "C"	E.B. LANES	W.B. LANES	
Δ 6'-30"-20.2	9'-38"-21.0	8'-00"-00.4	
D 2'-53"-13.2	3'-00"-2.2	2'-13"-32.9	
R 1984.21	1903.96	2336.15	
T 115.08	160.70	177.34	
L 229.91	320.65	354.11	
E 3.33	6.76	6.19	
PI. Sta. 16+06.03	33+09.00	32+38.94	
P.C. Sta. 14+90.94	31+48.29	30+61.59	
P.T. Sta. 17+20.86	34+68.94	34+15.71	

SEISMIC DATA
 Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.038g
 Site Coefficient (S) = 1.2

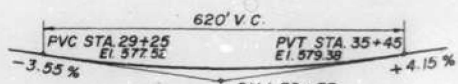
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 90/94	3030.5BR	COOK	35	19
FED. ROAD DIST. NO. 7, 11, 1018 FED. AID PROJECT -				

TOTAL BILL OF MATERIAL

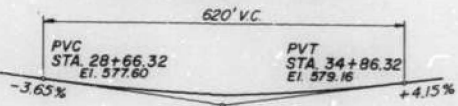
ITEM	UNIT	SUPER	SUB	TOTAL
Reinforcement Bars, Epoxy Coated	Pounds	48,150	6,790	54,940
Removal of Existing Concrete Deck	L. Sum	1	-	1
Protective Coat	Sq. Yd.	850	-	850
Concrete Removal	Cu. Yd.	-	1.4	1.4
Concrete Superstructure	Cu. Yd.	228.4	-	228.4
Concrete Structures	Cu. Yd.	-	38.3	38.3
Name Plate	Each	1	-	1
Preformed Joint Seal 2 1/2"	Foot	141	-	141
Elastomeric Bearing Assembly, Type I	Each	24	-	24
Protective Strips	Sq. Yd.	932	-	932
Jack and Remove Existing Bearings	Each	20	-	20
Bridge Deck Grading	Sq. Yd.	542	-	542
Bridge Seat Scales	Sq. Ft.	-	4,650	4,650
Structural Steel Removal	L. Sum	1	-	1
Furish and Erect Structural Steel	Each	-	1	1
Stud Shear Connectors	Each	3,816	-	3,816
Bar Splicers	Each	272	-	272
Formed Concrete Repair (Depth Equal to or Less Than 5")	Sq. Ft.	-	6.6	6.6
Bridge Handrail Removal	Foot	-	457	457
Pedestrian Railing	Foot	200	457	657
Cleaning and Painting Steel Bridge	L. Sum	1	-	1
Power Tool Cleaning Residue Containment and Disposal	L. Sum	1	-	1
Blasting Residue Containment and Disposal	L. Sum	1	-	1
Epoxy Crack Sealing	Foot	-	66	66
Protect and Maintain Existing Underpass Luminaire	L. Sum	1	-	1
Conduit Attached to Structure, 1/2" Dia., Galvanized Steel, PVC Coated	Foot	812	-	812



EXISTING AND PROPOSED PROFILE OF HALSTED STREET ALONG CENTERLINE OF HALSTED STREET



PROFILE GRADE - RAMP A



PROFILE GRADE - RAMP D

DESIGN SPECIFICATION
 AASHTO (1992) WITH 1993 & 1994 INTERIM SPECIFICATIONS

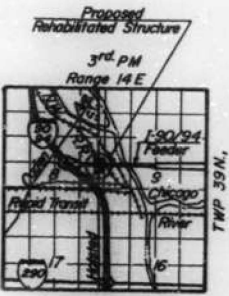
LOADING HS 20-44
 ALLOW 25 LBS/SQ. FT. FOR FUTURE WEARING SURFACE

DESIGN STRESSES
 f'c = 3,500 psi (CONCRETE)
 fy = 60,000 psi (REINFORCEMENT)
 fy = 36,000 psi (PROPOSED STRUCTURAL STEEL) (M270, Gr. 36)
 fy = 33,000 psi (EXISTING STRUCTURAL STEEL)

APPROVED
 Ralph E. Anderson

LEGEND

- S— Existing Sewer
- ⊙ Existing City Electric
- ⊠ Existing Valve Vault
- ⊙ Existing Manhole
- ⊠ Existing Light Pole
- ⊙ Existing Catch Basin
- ⊠ Existing Traffic Signs
- ⊙ Existing 4-3/4" Electrical Conduits
- ⊠ Proposed Light Pole



LOCATION SKETCH
 STRUCTURE NO. 016-2118

KENNEDY RECONSTRUCTION PROJECT		DATE APRIL 30, 1997
ILLINOIS DEPARTMENT OF TRANSPORTATION		JOB NO. 669502
HALSTED STREET BRIDGE		
GENERAL PLAN AND ELEVATION		
F.A.I. 90/94	COOK COUNTY	DESIGNED JJI
SECTION 3030.5 BR	STA. 10+00	CHECKED RAM
DE LEUW, GATHER & COMPANY		APPROVED RPH
ENGINEERS AND PLANNERS		SCALE
		DRAWING NO. S-1

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

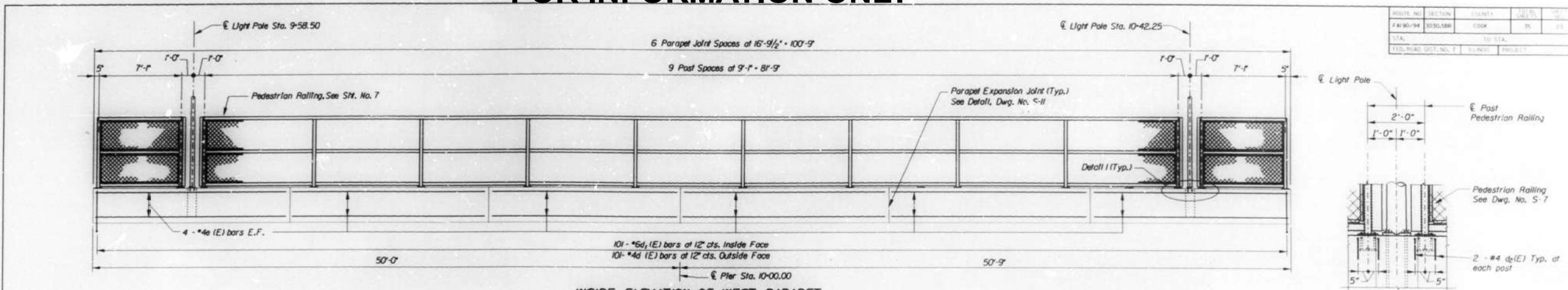
LOCATION 39: HALSTED ST OVER OHIO STREET FEEDER (SN 016-2118)
 EXISTING STRUCTURE DETAILS

SCALE: SHEET 001 OF 3 SHEETS STA. TO STA.

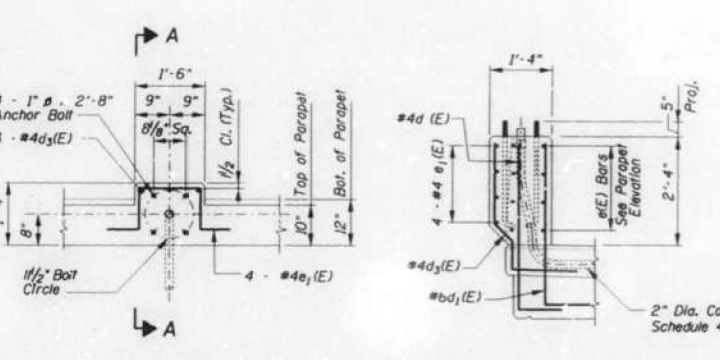
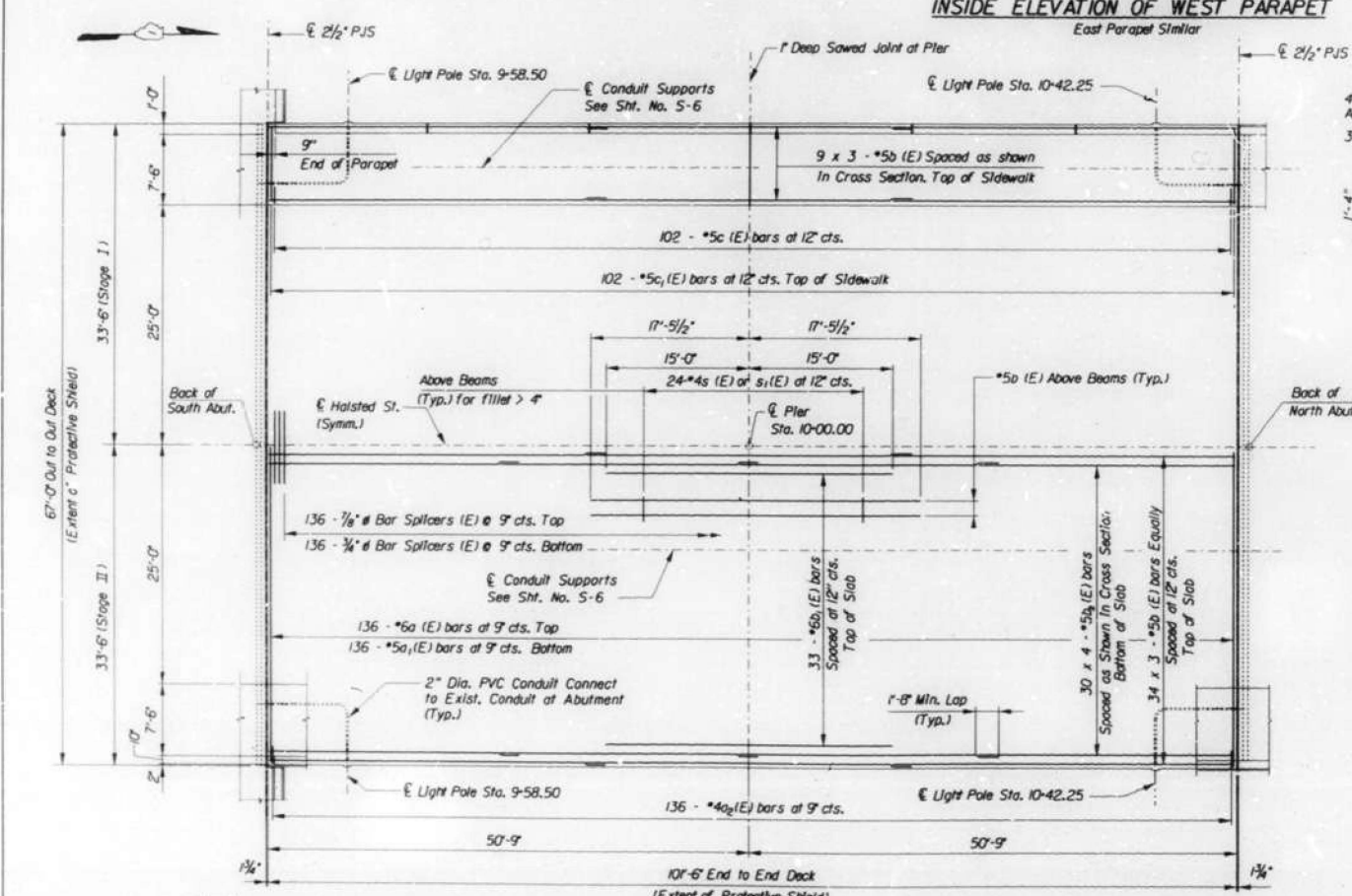
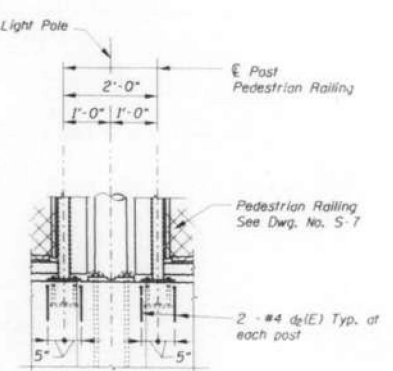
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	176
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

MODEL: 86 (Sheet) FILE NAME: c:\pwwork\pwwork\diazad1167770\102925-shr-typical.dgn

FOR INFORMATION ONLY



ROUTE NO.	SECTION	COUNT	DATE	BY
F.A. 90/94	3030.5 BR	COOK	95	JL
STA.	TO STA.			
FED. ROAD DIST. NO. 1	BLK. NO.	PROJECT		



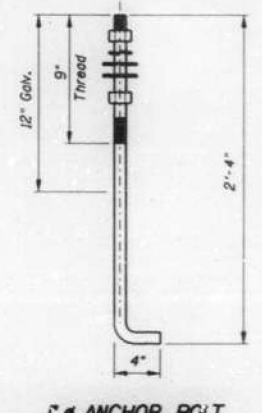
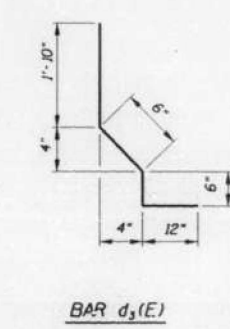
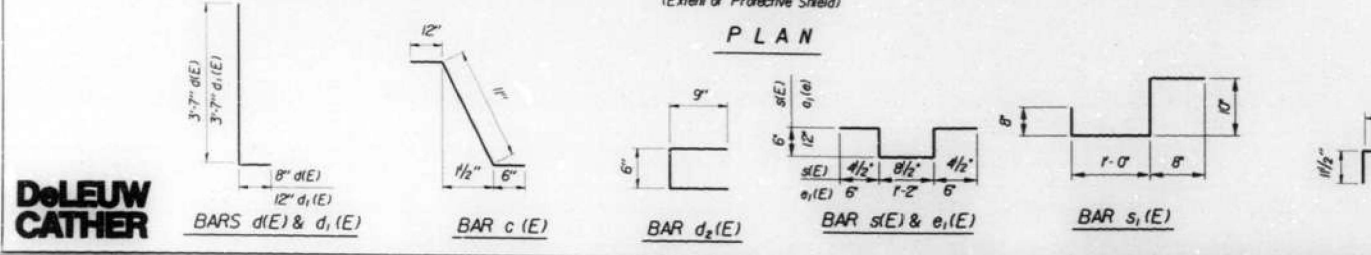
Note:
Provide two hex nuts, two 3 Inch O.D. flat washers and one lockwasher for each anchor bolt. Nuts and washers shall be galvanized. All details for conduits, anchor bolts, nuts and washers shall be as approved by the Engineer.

Cost of anchor bolts, nuts, washer and 2\"/>

BILL OF MATERIAL

Bar No.	Size	Length	Shape
a (E)	272	*6	33'-2"
a1 (E)	272	*5	33'-2"
a2 (E)	272	*4	2'-3 1/2"
b (E)	282	*5	34'-11"
b1 (E)	66	*6	30'-0"
b2 (E)	240	*5	26'-7"
c (E)	202	*5	2'-5"
c1 (E)	202	*5	8'-1"
d (E)	202	*4	4'-3"
d1 (E)	202	*6	4'-7"
d2 (E)	56	*4	2'-0"
d3 (E)	12	*4	3'-10"
e (E)	96	*4	16'-6"
e1 (E)	16	*4	4'-2"
s (E)	240	*4	2'-5 1/2"
s1 (E)	48	*4	3'-2"
Concrete Superstructure	Cu. Yds.	228.4	
Reinforcement Bars, Epoxy Coated	Lbs.	49150	
Bar Splitters	Each	272	
Bridge Deck Grooving	Sq. Yd.	542	
Protective Coat	Sq. Yd.	830	
Pedestrian Railing	Foot	200	

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 9 x 3 - #5 etc indicates 9 lines of bars with 3 lengths per line.
STRUCTURE NO. 016-2118



Min. Bar Lap #5 = 1'-8"

KENNEDY RECONSTRUCTION PROJECT ILLINOIS DEPARTMENT OF TRANSPORTATION HALSTED STREET BRIDGE DECK SLAB PLAN			DATE APRIL 30, 1997
F.A. 90/94 SECTION 3030.5 BR			JOB NO. 669502
DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS			DESIGNED DMJ
			DRAWN FTE/CAD
			CHECKED JL
			APPROVED RPH
			SCALE
			DRAWING NO. S-5



USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 39: HALSTED ST OVER OHIO STREET FEEDER (SN 016-2118)
EXISTING STRUCTURE DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	177
CONTRACT NO. 62X444				
ILLINOIS FED. AID PROJECT				

MODEL: 87 (Sheet)
FILE NAME: c:\pwworking\oldiazad1167770\102925-shr-typical.dgn

FOR INFORMATION ONLY

SECTION	COUNTY	TOTAL SHEETS
190	COOK	131
STA.	TO STA.	
114+40.00	118+00.00	

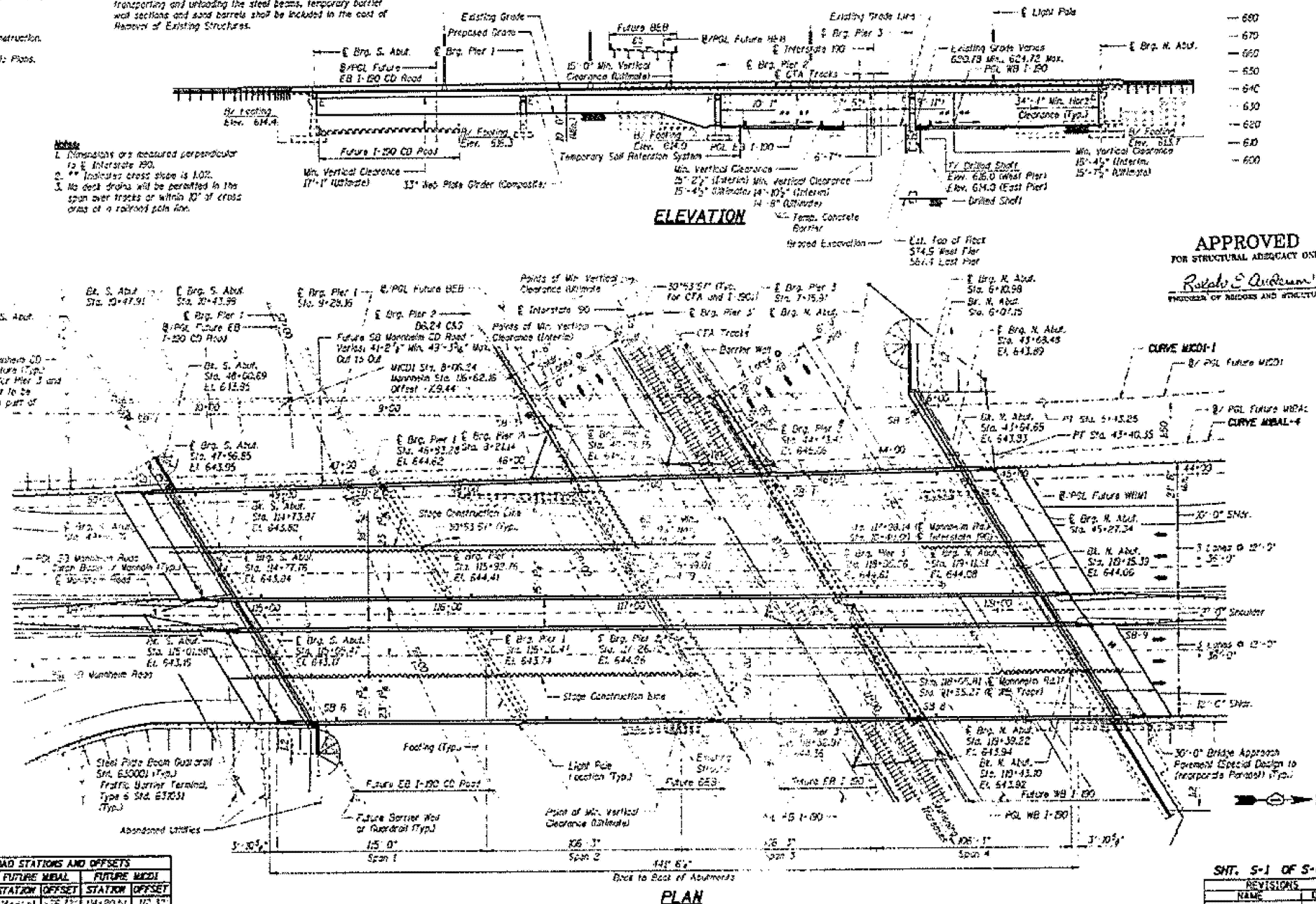
BENCHMARKS
 TEN-A. Chisled square at the west edge of the concrete base of the southerly most light pole north of the I-190 Eastbound Ramp off the Northbound Mannheim Road. Elevation 614.30

EXISTING STRUCTURE
 S.N. 016-0333 (S.N. S.M. 016-0334 (199) Three Spans, 15'-1" back to back of abutments, precast concrete box beam bridge, designed as three simple spans, on multi-column concrete piers and abutments. Each structure is approximately 43' out to out of deck.

STAIRS
 Traffic will be maintained utilizing staged construction. For details, see Shts. S-3, S-4 and S-5 in addition to the detailed Maintenance of Traffic Plans.

SALVAGE
 When the Engineer determines they are no longer needed, the steel beams that are currently supporting the fascia box bases of the existing structure, as well as any unbraced barrier wall sections and sand barrels, shall be salvaged, transported and unloaded by the Contractor to the District Bridge Office at 1811 Westfield Rd., Elm Grove, IL 60007. Delivery should be scheduled between 8:00 A.M. and 5:00 P.M. Monday through Friday. Delivery shall be coordinated with Mr. Shaker Asfour at (847) 955-1801. The cost of salvaging, transporting and unloading the steel beams, temporary barrier wall sections and sand barrels shall be included in the cost of Removal of Existing Structures.

- Notes**
1. Dimensions are measured perpendicular to E. Mannheim Rd.
 2. ** Indicates cross slope is 1.0%.
 3. No deck drains will be permitted in the span over tracks or within 10' of cross axis of a railroad pole line.



LOCATION	MANNHEIM ROAD STATIONS AND OFFSETS					
	STATION	OFFSET	STATION	OFFSET	STATION	OFFSET
Br. S. Abut.	114+50.27	-62.60	114+41.21	-76.72	114+20.51	-112.32
Br. S. Abut.	114+54.20	-62.60	114+45.95	-76.80	114+24.42	-112.28
Br. Pier 1	115+67.65	-65.17	115+59.20	-79.23	115+43.25	-110.89
Br. Pier 2	116+72.56	-67.75	116+64.10	-81.17	116+47.55	-109.62
Br. Pier 3	117+77.46	-69.59	117+69.01	-83.72	117+52.46	-111.37
Br. N. Abut.	118+82.37	-72.84	118+73.92	-85.96	118+57.37	-113.61
Br. N. Abut.	118+86.21	-71.92	118+77.75	-85.74	118+61.20	-113.70

- Notes**
1. Indicates dimensions measured perpendicular to E. Mannheim Road at E. Br. of the Abutments.
 2. FUTURE MISAL, WSM, BEB and EB I-190 CD Road are to be constructed as part of ultimate I-190 Mannheim Road interchange geometry.

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Ronald S. Anderson
 THROUGH OF BRIDGES AND STRUCTURES

DESIGN SPECIFICATIONS
 2002 AASHTO Standard Specifications for Highway Bridges

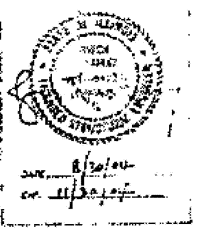
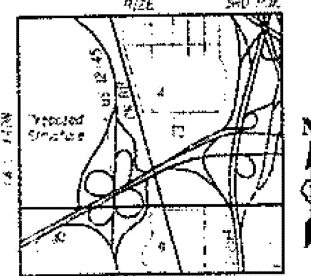
DESIGN LOADS
 Highway Live Load: HS 20-44
 Future Wearing Surface = 50 psf

DESIGN STRESSES
 Concrete: $f_c = 3,500$ psi
 Reinforcement: $f_y = 60,000$ psi
 Structural Steel: $f_y = 50,000$ psi (M 270 Grade 50)
 $f_y = 50,000$ psi (M 270 Grade 50)

SEISMIC DATA
 Seismic Performance Category (SPC) = A
 Reduced Acceleration Coefficient (A) = 0.04
 Site Coefficient (S) = 1.0

PROPOSED CURVE M100-1
 P.I. Station = 4+03.24
 Delta = 9° 35' 09.10" (RT)
 L = 57.25' 05.97"
 T = 140.17'
 L = 280.34'
 R = 1,675.00'
 E = 5.20'
 P.C. Station = 2+42.55
 P.T. Station = 5+43.25

PROPOSED CURVE M100-4
 P.I. Station = 41+48.23
 Delta = 9° 35' 09.10" (RT)
 L = 57.25' 13.22"
 T = 142.73'
 L = 285.46'
 R = 1,700.00'
 P.C. Station = 40+55.44
 P.T. Station = 43+43.25



SHT. S-1 OF S-65

REVISIONS	DATE
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US 12/45 MANNHEIM ROAD OVER F.A.I. ROUTE 190
 SECTION 010183-R
 STRUCTURE NUMBERS 016-2717 (S.N. 016-2718 (N.B.)
 STATION 10+40.00, COOK COUNTY

GENERAL PLAN AND ELEVATION

DATE: 03/02/24
 DRAWN BY: T.M.H.
 CHECKED BY: R.S.H.

TENG

MODEL: 89 (Sheet)
 FILE NAME: c:\pwworking\tdiazad\11677701\102825-shr1.txd

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOC. 40 & 41: US 12/45 MANNHEIM RD OVER I-190 SN 016-2717 & 016-2718
 EXISTING STRUCTURE DETAILS

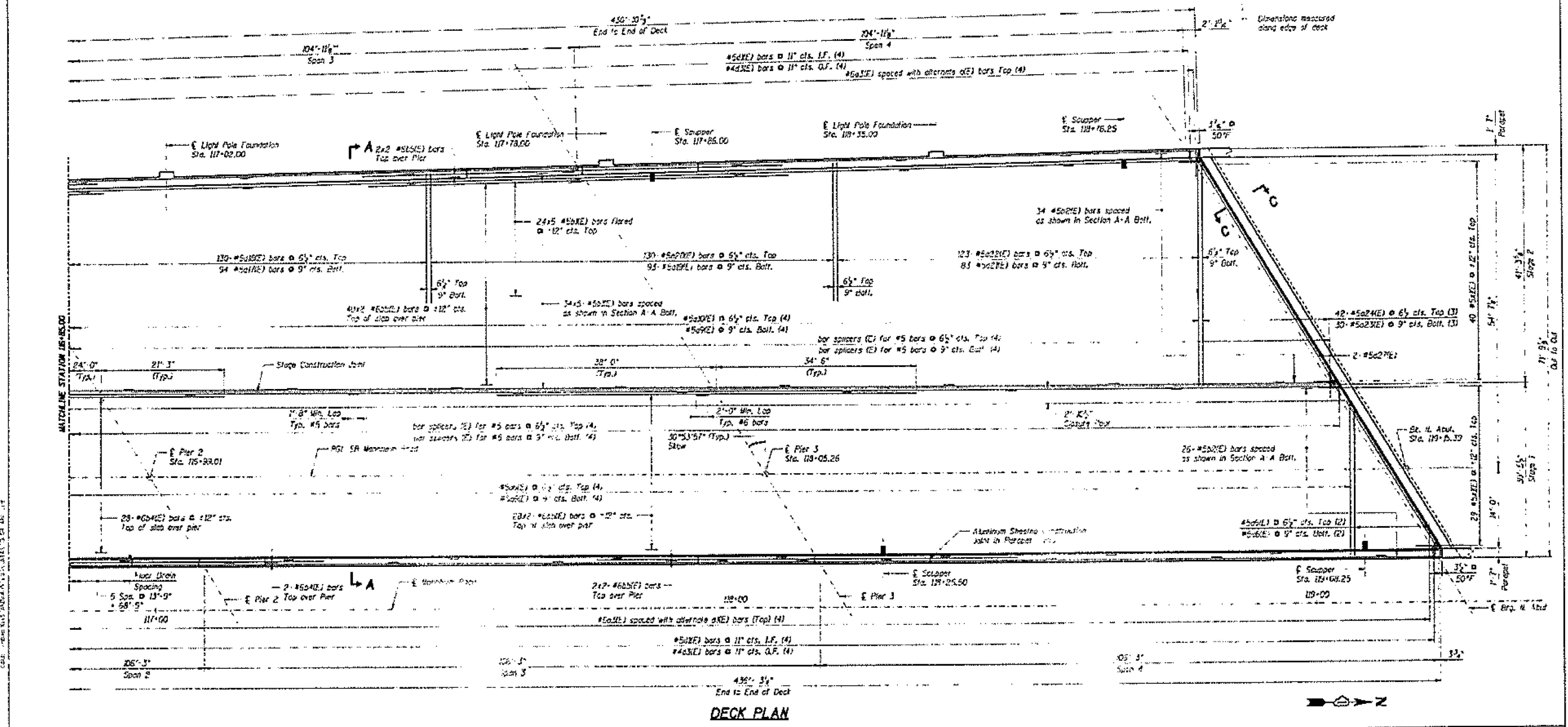
SCALE: SHEET 001 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	179
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

30° 53' 57"

FOR INFORMATION ONLY

F.A.I. DIST.	SECTION	COUNTY	TOTAL SHEETS
190	010188-R	COOK	254 149
STA.	TO STA.		
ILL. ROAD DIST. DISTRICT NO. 11 ILL. ROAD DIST. PROJECT			
CONTRACT NO. 62X44			



DECK PLAN

Reinforcement Notes:
 (1) Cut bars to fit in field, use remainder of bars in supports and at deck.
 (2) Use remainder of bars from (1).
 (3) Cut bars according to bar cutting diagram.
 (4) For quantity, see SH. S-18.

Notes:
 1. Work this sheet with SHS. S-18 thru S-25.
 2. Reinforcement bars designated (5) shall be epoxy coated.
 3. Bars indicated thus #12-#5 etc. indicate 4 lines of bars with 2 bars per line.
 4. For Sections A-A and C-C, see SH. S-22.
 5. For parapet reinforcement, see SH. S-22.
 6. For additional reinforcement of scupper, see SH. S-25.
 7. For additional reinforcement of light pole foundation, see SH. S-24.

SH. S-29 OF S-65

REVISIONS	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US 12/45 MANNHEIM ROAD OVER I-190
 ROUTE 190
 SECTION 010188-R
 STRUCTURE NUMBERS 016-2717 (SB) 016-2718 (NB)
 STATION 10+40.00, COOK COUNTY

**SOUTHBOUND STRUCTURE
 DECK PLAN 2**

DATE: 09/02/24
 DRAWN BY: TM
 CHECKED BY: RSM

TENG

MODEL: 91 (Sheet)
 FILE NAME: c:\pwworking\tdiazad\1167770102925-shs\typical.dgn

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

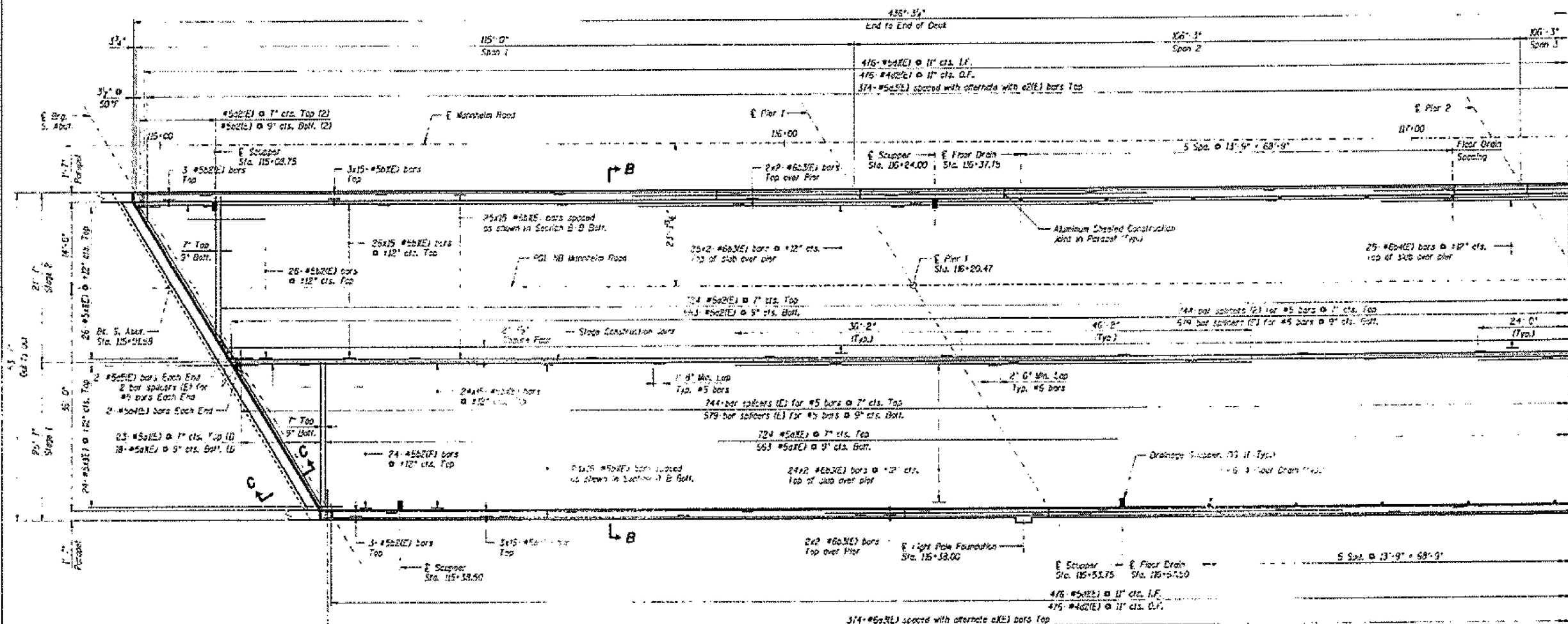
LOC. 40 & 41: US 12/45 MANNHEIM RD OVER I-190 SN 016-2717 & 016-2718
EXISTING STRUCTURE DETAILS

SCALE: SHEET 003 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	181
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

SECTION	COUNTY	TOTAL SHEETS
010-018-11	COOK	218
STA.	STA.	
115+00.00	115+00.00	
CONTRACT NO. 62X44		



DECK PLAN

SHT. S-20 OF S-65

REVISIONS	
NO.	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US 12/45 MANNHEIM ROAD OVER I-190
 F.A.I. ROUTE 190
 SECTION 010-018-11
 STRUCTURE NUMBERS 016-2717 (SB) 016-2718 (NB)
 STATION 10+40.00, COOK COUNTY
 NORTHBOUND STRUCTURE
 DECK PLAN 1

DATE: 09/09/04
 DRAWN BY: TMM
 CHECKED BY: RSN

TENG

- Notes**
1. Work this sheet with SHS. S-18 thru S-25.
 2. Reinforcement bars designated (F) shall be epoxy coated.
 3. Bars indicated thus #12-#5 etc. indicates 4 Cnc of bars with 2 temps per Cnc.
 4. For Sections B-B and C-C, see SHS. S-23.
 5. For parapet reinforcement, see SHS. S-22.
 6. For additional reinforcement of scabbers, see SHS. S-25.
 7. For additional right pole foundation reinforcement, see SHS. S-24.

Reinforcement Notes

- (1) C/A bars to fit in field, use remainder of bars in opposite end of deck.
- (2) Use remainder of bars from (1)

MODEL: 92 (Sheet)
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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

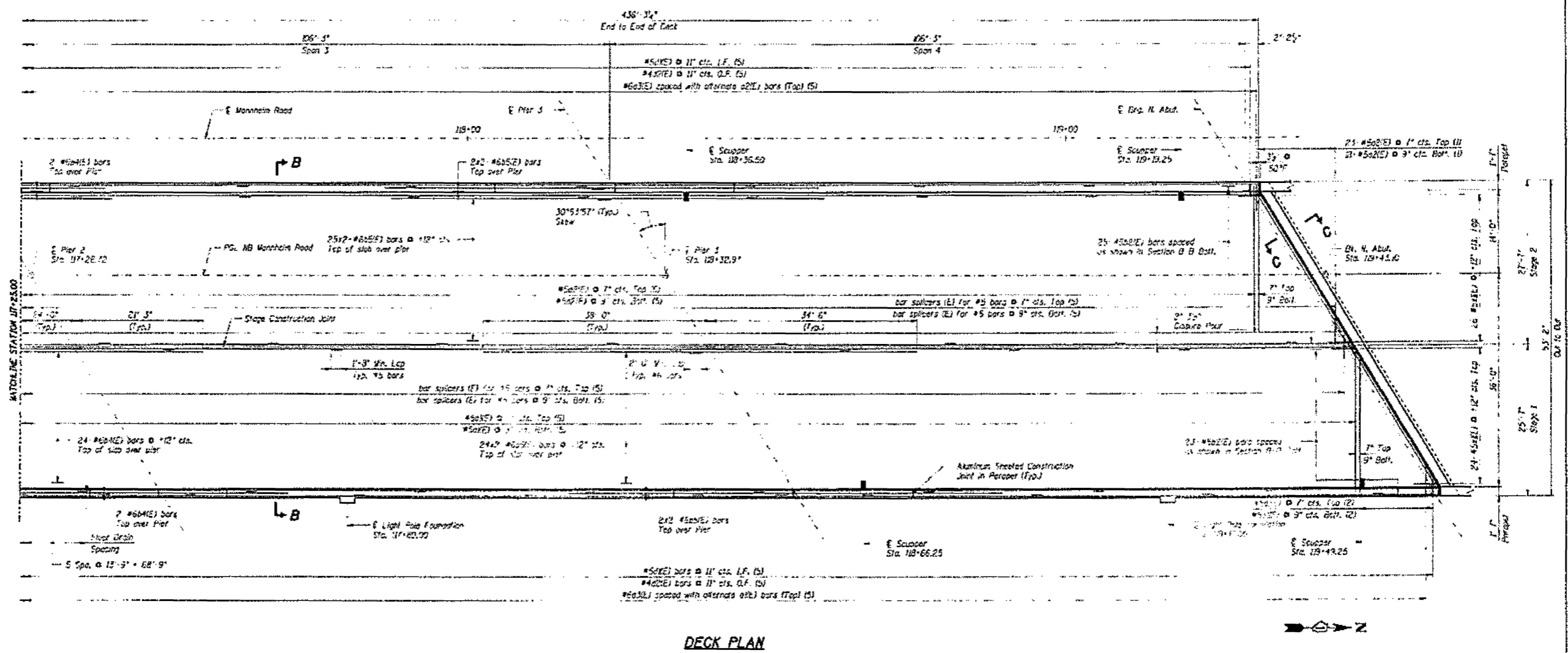
LOC. 40 & 41: US 12/45 MANNHEIM RD OVER I-190 SN 016-2717 & 016-2718
 EXISTING STRUCTURE DETAILS

SCALE: SHEET 004 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	182
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

F.A.I. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	010188-R	COOK	253	181
STA. TO STA.				
ILL. ROAD DIST. VOL. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 62X44				



DECK PLAN

SHT. 5-21 OF 5-63

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US 12/45 MANNHEIM ROAD OVER F.A.I. ROUTE 190
 F.A.I. ROUTE 190
 SECTION 010188-R
 STRUCTURE NUMBERS 016-2717 (S&A) 016-2718 (M&B)
 STATION 10+40.00, COOK COUNTY
NORTHBOUND STRUCTURE
DECK PLAN 2
 DRAWN BY: TWH
 CHECKED BY: RDN
 DATE: 01/02/04
TENG

- Notes:**
1. Work this sheet with Shts. 5-18 thru 5-25.
 2. Reinforcement bars designated (E) shall be epoxy coated.
 3. Bars indicated thus 4x2 #5 etc. indicates 4 lines of bars with 2 lengths per line.
 4. For Sections B-B and C-C, see Sht. 5-23.
 5. For parapet reinforcement, see Sht. 5-22.
 6. For additional reinforcement of scupper, see Sht. 5-25.
 7. For additional light pole foundation reinforcement, see Sht. 5-24.

- Reinforcement Notes:**
- (1) Cut bars to fit in flight, use remainder of bars in opposite end of deck.
 - (2) Use remainder of bars from (1)
 - (3) For quantity, see Sht. 5-20.

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USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

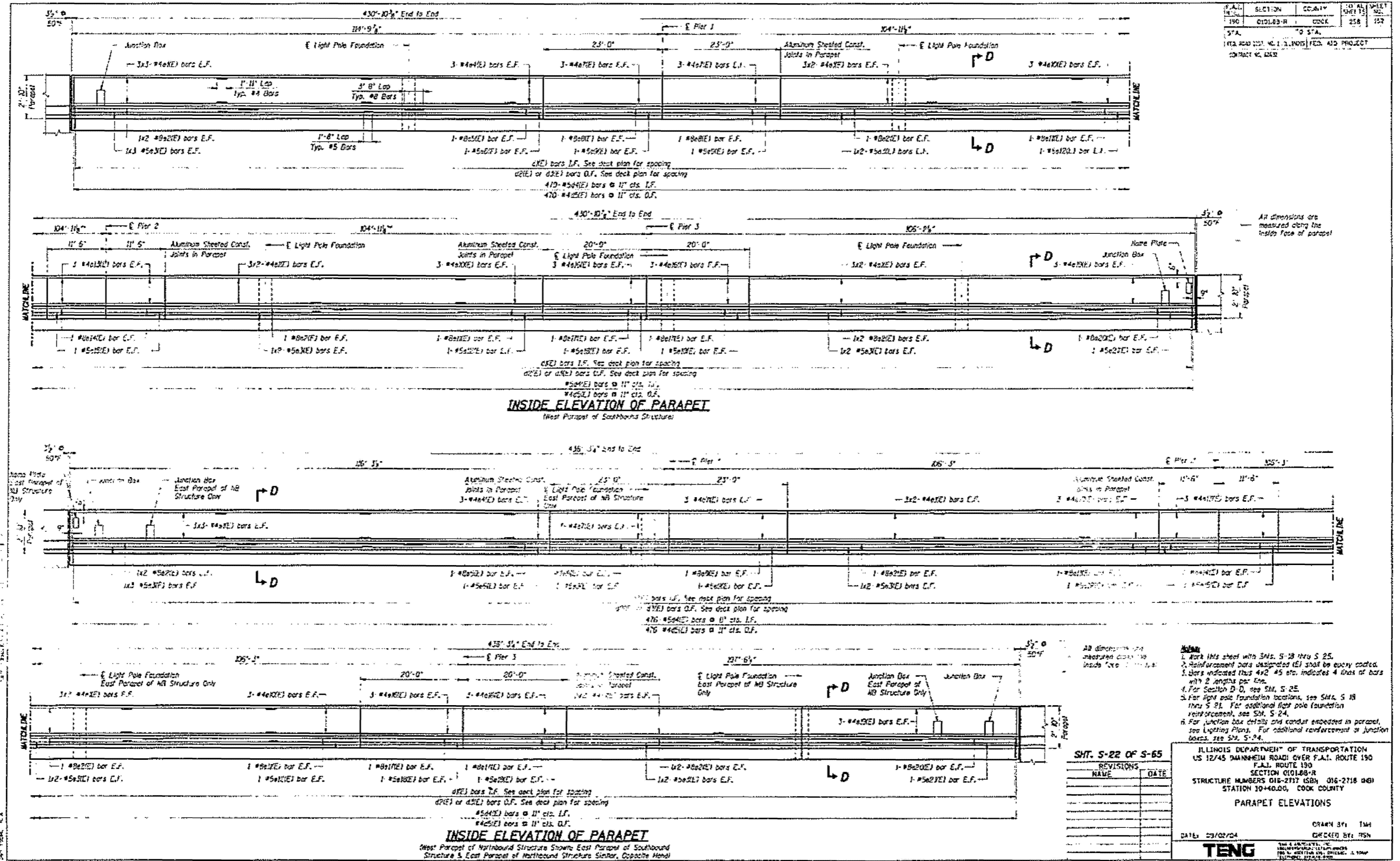
LOC. 40 & 41: US 12/45 MANNHEIM RD OVER I-190 SN 016-2717 & 016-2718
 EXISTING STRUCTURE DETAILS

SCALE: SHEET 005 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	183
CONTRACT NO. 62X44				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

F.A.L. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	010188-R	COOK	258	127
STA.	TO STA.			
ILLINOIS DEPARTMENT OF TRANSPORTATION				
CONTRACT NO. 62X44				

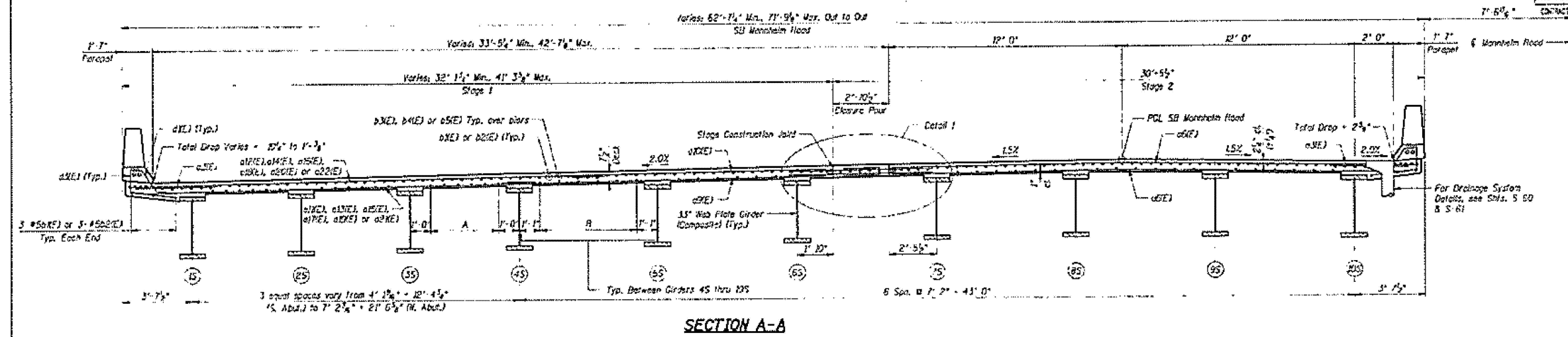


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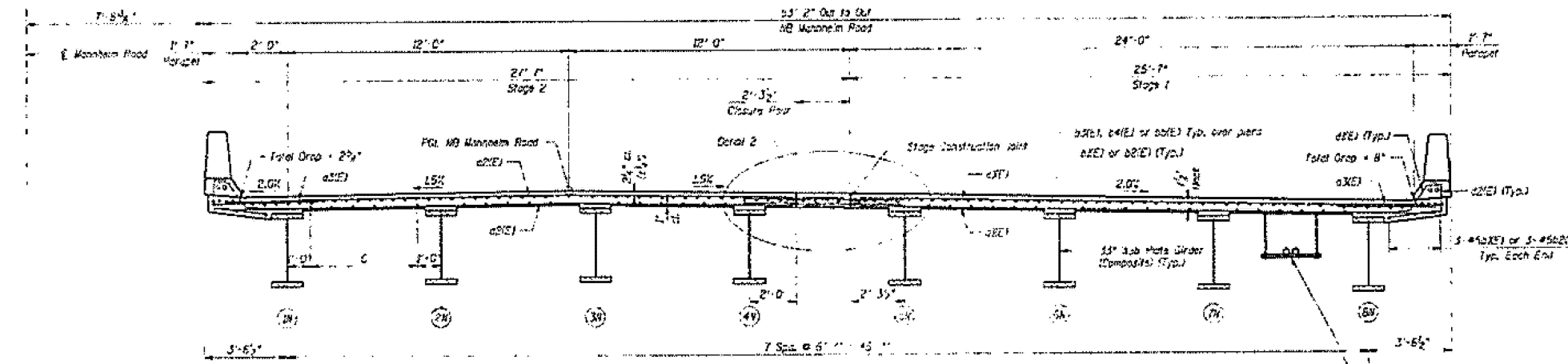
USER NAME = Ivan.dlaz	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOC. 40 & 41: US 12/45 MANNHEIM RD OVER I-190 SN 016-2717 & 016-2718 EXISTING STRUCTURE DETAILS	F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 12/4/2025	DRAWN -	REVISED -			VAR.	2024-1009-BDS	COOK	192	184
	CHECKED -	REVISED -			SCALE:	SHEET 006 OF 8 SHEETS	STA.	TO STA.	CONTRACT NO. 62X44
	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

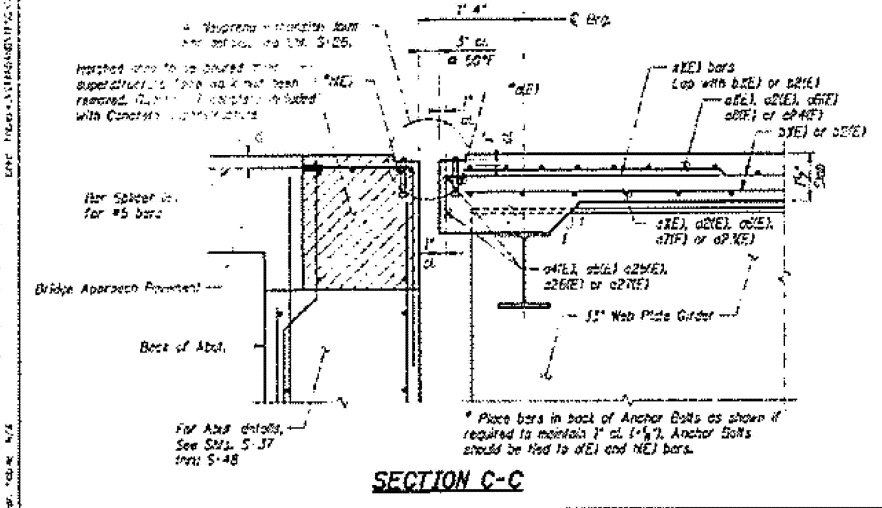
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	010188-R	COOK	192	185
STA.	TO STA.		CONTRACT NO. 62X44	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



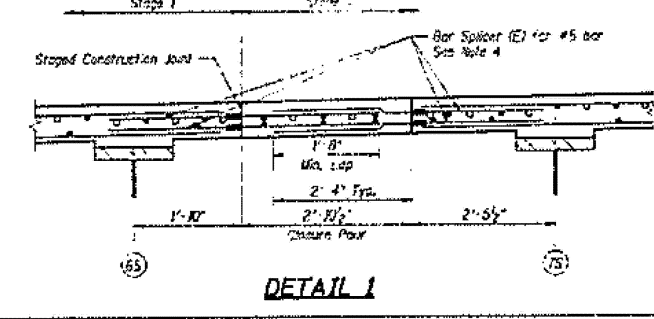
SECTION A-A



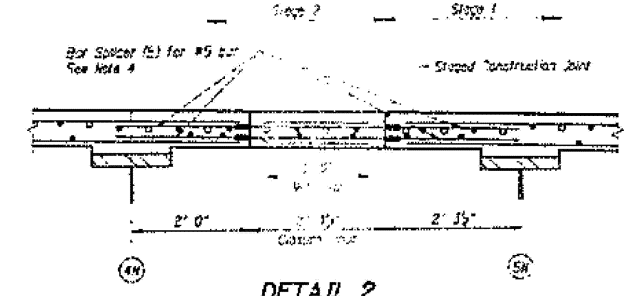
SECTION B-B



SECTION C-C



DETAIL 1



DETAIL 2

Notes for Dimensions A through C
 A - 4-#5(XE), 5-#5(XE), 6-#5(XE) or 6-#5(XE) bars @ 12" Max. c/c.
 B - Typ. between Girders 45 thru 45
 C - 6-#5(XE) or 6-#5(XE) bars @ 12" c/c. Typ. between Girders (X)X(X)
 D - 6-#5(XE) or 6-#5(XE) bars @ 12" c/c. Typ. between Girders

Note
 1. Mark this sheet with Shts. S-13 thru S-25.
 2. Reinforcement bars designated (E) shall be epoxy coated.
 3. Bars indicated thus 4X2-#5 etc. indicates 4 lines of bars with 2 laps per line.
 4. Bar spacers shall be spaced to avoid conflict with bar spacers on opposite side of closure pour. Top and bottom bar spacers of closure pour joints shall not be located in the pour vertical plane.

SHT. 5-23 OF 5-65

REVISIONS	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US 12/45 MANNHEIM ROAD OVER I-190, ROUTE 130
 F.A.I. ROUTE 130
 SECTION 010188-R
 STRUCTURE NUMBERS 016-2717 (SB) 016-2718 (UB)
 STATION 10+40.00, COOK COUNTY
 SUPERSTRUCTURE DETAILS 1

DATE: 09/02/24
 DRAWN BY: TWH
 CHECKED BY: RSN

TENG

MODEL: 95 (Sheet)
 FILE NAME: c:\p\work\102825-shr\typical.dgn

USER NAME = Ivan.diaz	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/4/2025	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOC. 40 & 41: US 12/45 MANNHEIM RD OVER I-190 SN 016-2717 & 016-2718
 EXISTING STRUCTURE DETAILS

SCALE: SHEET 007 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	2024-1009-BDS	COOK	192	185
CONTRACT NO. 62X44				ILLINOIS FED. AID PROJECT

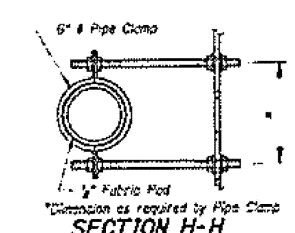
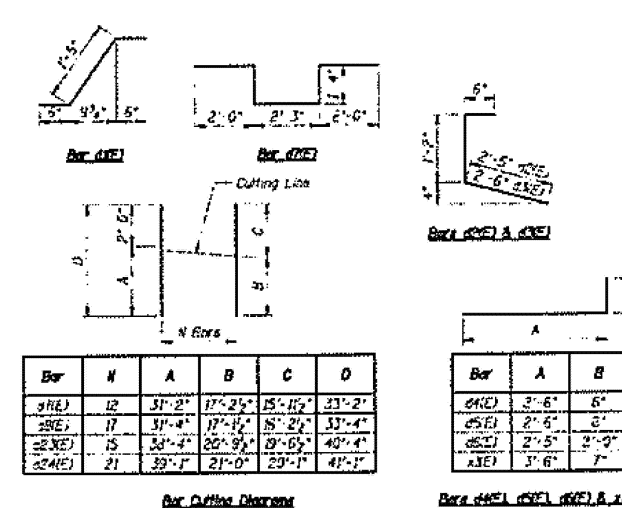
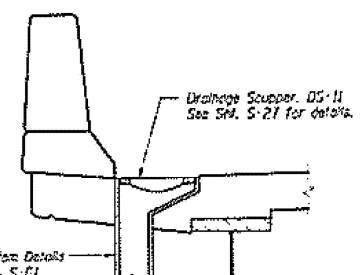
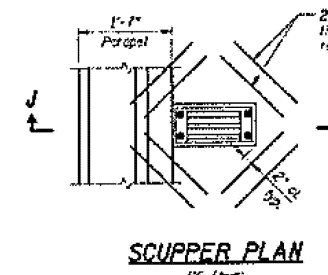
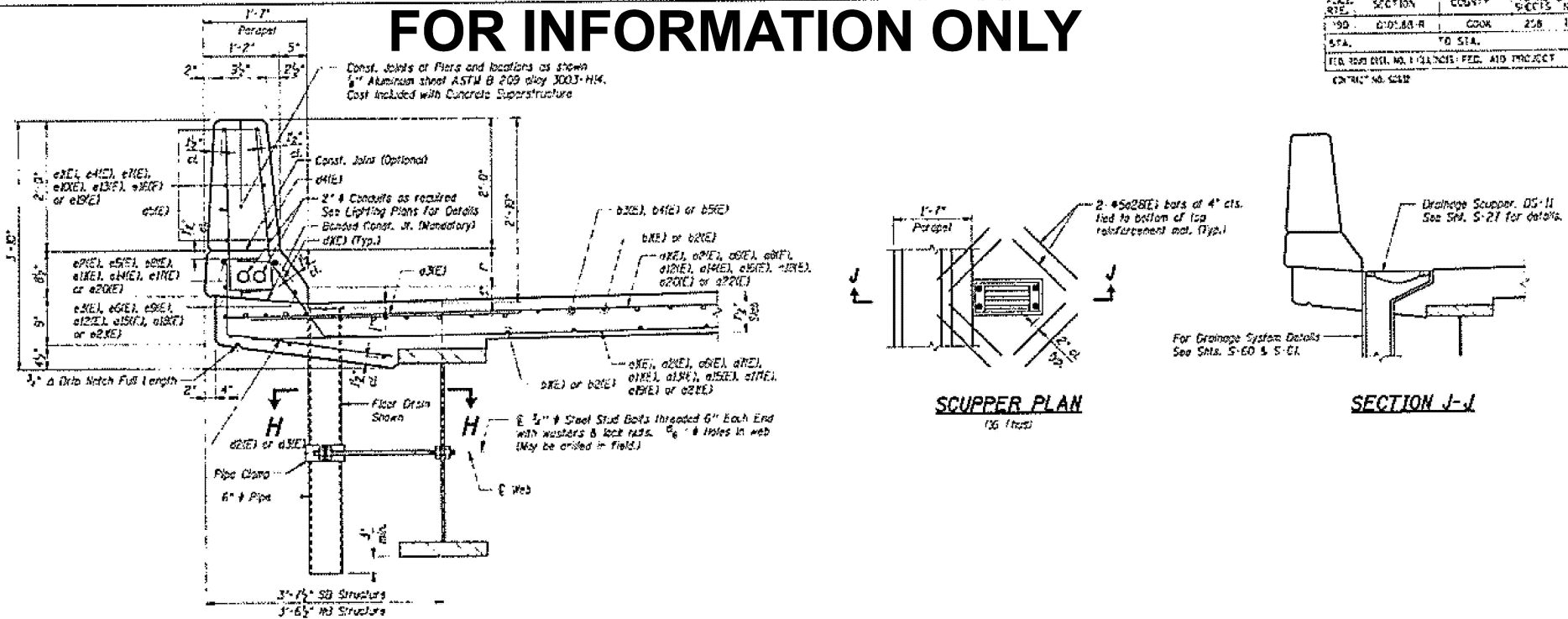
NB & SB STRUCTURE DECK BAR LIST

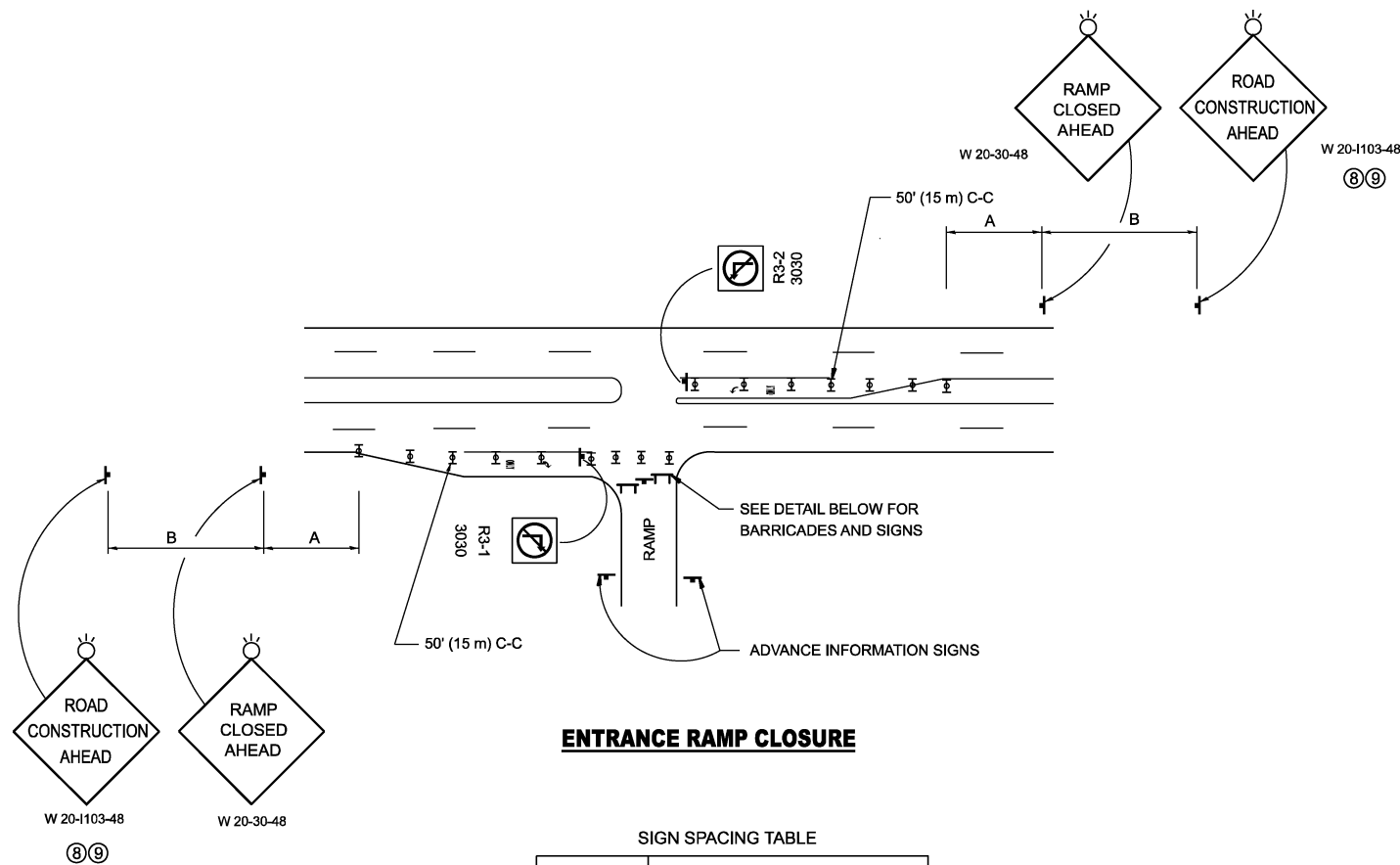
Bar	No. SB Structure Deck		No. NB Structure Deck		Size	Length	Shape
	Stage 1	Stage 2	Stage 1	Stage 2			
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a1E2			1328		#5	24'-6"	
a1E3	398	404	374	374	#5	4'-6"	
a1E4			4	4	#5	28'-0"	
a1E5					#5	27'-8"	
a1E6		1587			#5	26'-9"	
a1E7	12				#5	33'-2"	
a1E8	17				#5	33'-4"	
a1E9	550				#5	37'-0"	
a1E10	761				#5	33'-5"	
a1E11	91				#5	38'-0"	
a1E12	119				#5	21'-6"	
a1E13	94				#5	19'-6"	
a1E14	123				#5	23'-0"	
a1E15	94				#5	21'-0"	
a1E16	130				#5	34'-6"	
a1E17	94				#5	28'-6"	
a1E18	180				#5	26'-0"	
a1E19	93				#5	24'-2"	
a1E20	150				#5	27'-5"	
a1E21	83				#5	25'-6"	
a1E22	173				#5	29'-0"	
a1E23	15				#5	40'-4"	
a1E24	21				#5	41'-1"	
a1E25		4			#5	30'-4"	
a1E26	7				#5	15'-0"	
a1E27	2				#5	47'-2"	
a1E28	32	32	12	12	#5	7'-6"	
a1E29	1065	870	750	810	#5	50'-0"	
a1E30	67	58	50	54	#5	11'-5"	
a1E31	72	60	52	54	#5	42'-2"	
a1E32	29	30	28	27	#5	45'-1"	
a1E33	84	69	52	54	#5	37'-3"	
a1E34	470	476	476	476	#5	8'-1"	
a1E35	476	476	476	476	#5	4'-1"	
a1E36	476	476	476	476	#5	4'-2"	
a1E37	436	436	436	436	#5	11'-2"	
a1E38	170	476	476	476	#5	3'-2"	
a1E39	25				#5	4'-5"	
a1E40	25				#5	9'-11"	
a1E41	54	54	54	54	#4	10'-0"	
a1E42	15	12	12	12	#8	16'-0"	
a1E43	8	8	8	8	#5	10'-0"	
a1E44	8	8	8	8	#4	2'-0"	
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a1E46	2	2	2	2	#5	9'-0"	
a1E47	12	12	12	12	#4	22'-8"	
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BILL OF MATERIAL

Item	Unit	SB Deck Total	NB Deck Total
Concrete Superstructure	Cu Yd	844.5	631.1
Bridge Deck Gravel	Sq Yd	3,007	2,387
Protective Coat	Sq Yd	3,465	2,789
Reinforcement Bars, Epoxy Coated	Lbs	205,019	161,639
Floor Drains	Each	12	12
Bar Splicers	Each	2,766	2,654

FOR INFORMATION ONLY



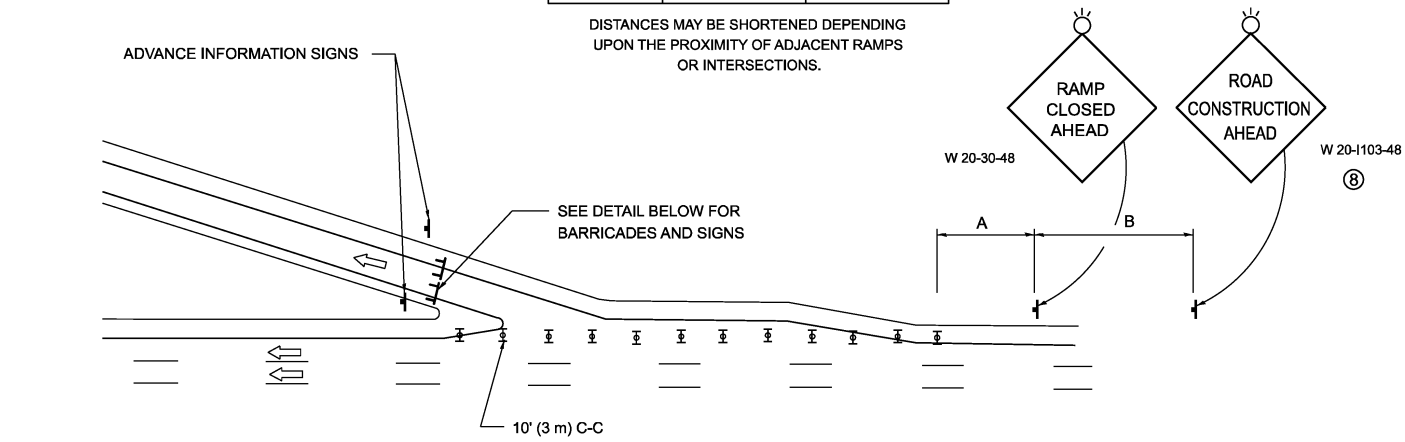


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

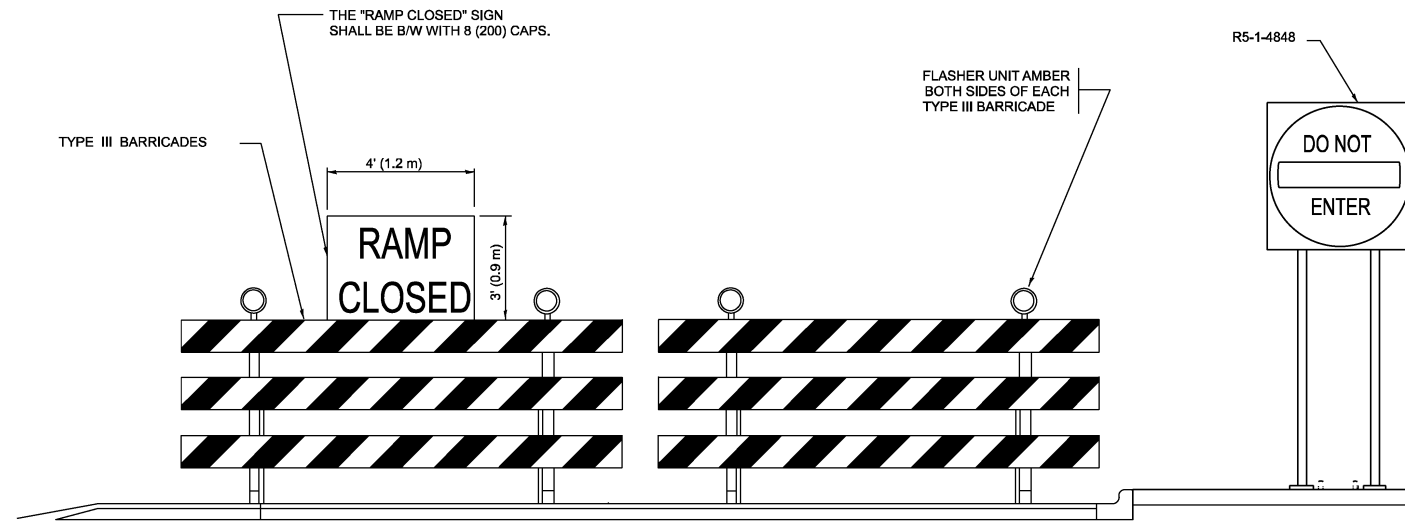
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

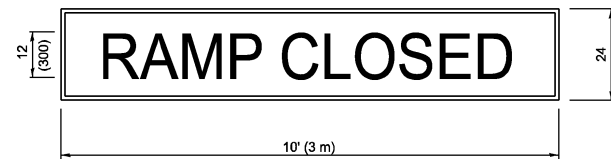
SYMBOLS

- ▬ TYPE II BARRICADE OR DRUM
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN

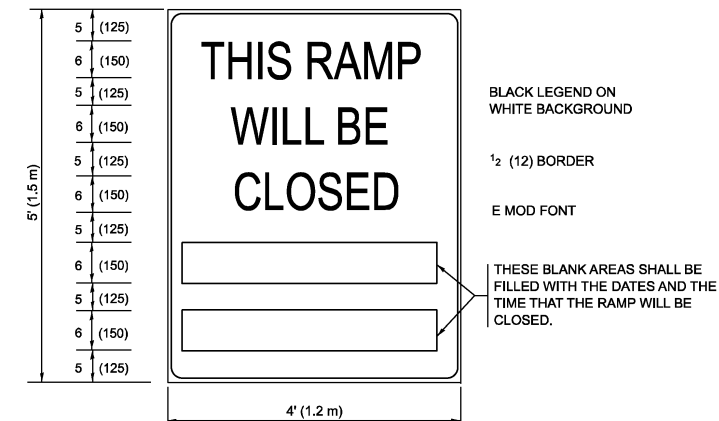


BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.
THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

RAMP CLOSURE ADVANCE INFORMATION SIGN



GENERAL NOTES:

- 1 CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- 2 VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- 3 A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- 5 THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- 6 AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- 7 THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- 8 ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- 9 ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

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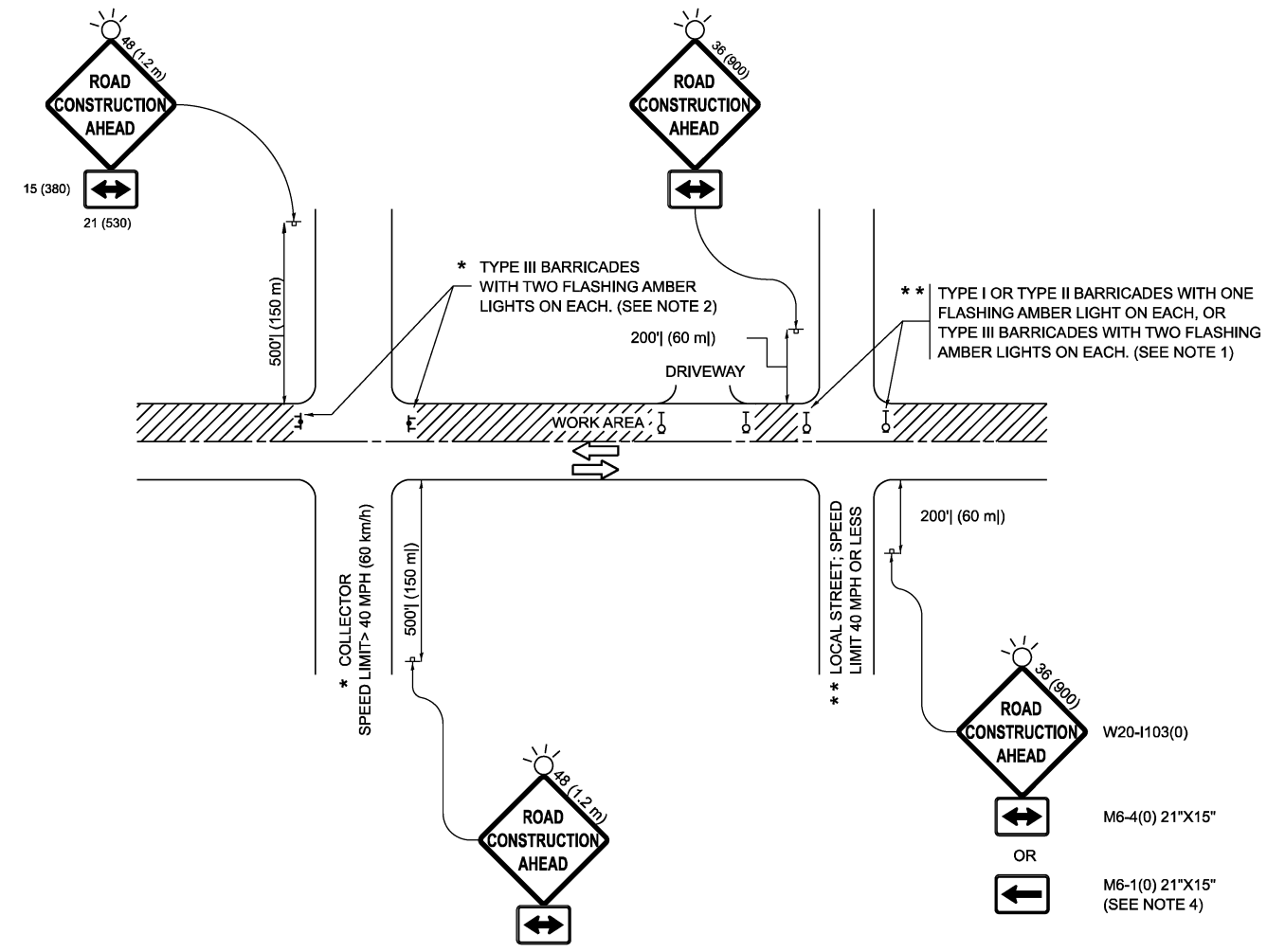
USER NAME = ivan.diaz	DESIGNED - D.W.S.	REVISED - S.P.B._12-09
	DRAWN -	REVISED - M.D._06-13
	CHECKED -	REVISED - M.D._01-18
PLOT DATE = 12/4/2025	DATE - 02-83	REVISED - D.S._05-24

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	187
TC-08		CONTRACT NO. 62X44		
ILLINOIS		FED. AID PROJECT		



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: TC-10 (Sheet)
FILE NAME: c:\p\work\w10\102925-shr-Dls\Stds.dgn

USER NAME = ivan.diaz	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00
	DRAWN -	REVISED - A. SCHUETZE 07-01-13
	CHECKED -	REVISED - A. SCHUETZE 09-15-06
PLOT DATE = 12/4/2025	DATE - 06-89	REVISED - D. SENDERAK 05-03-24

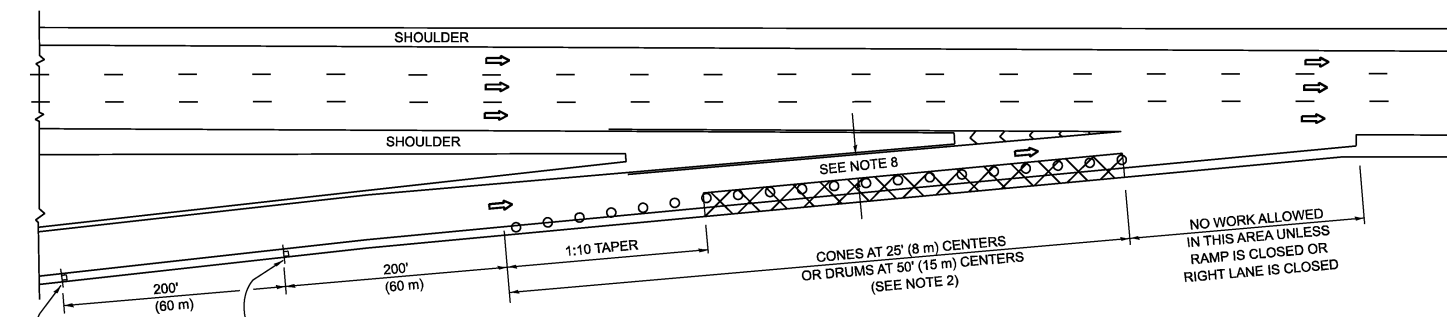
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

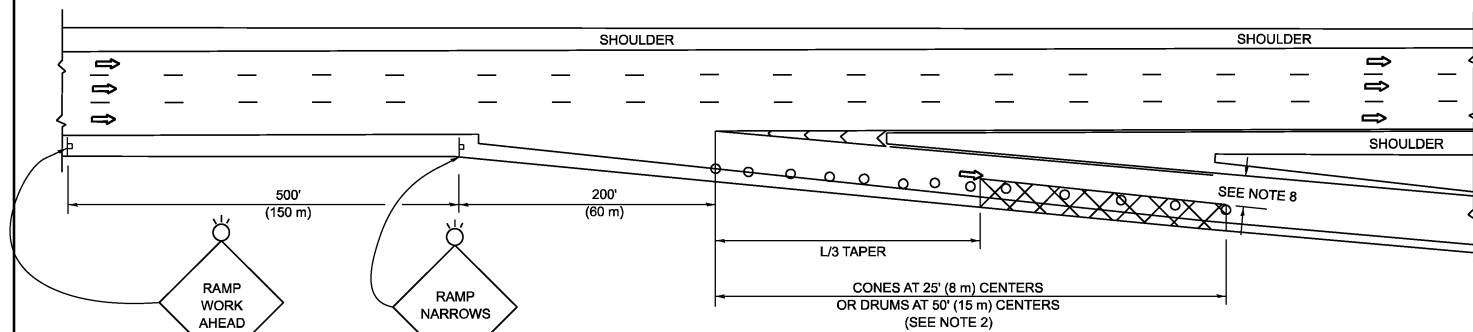
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	189
TC-10			CONTRACT NO. 62X44	
ILLINOIS FED. AID PROJECT				

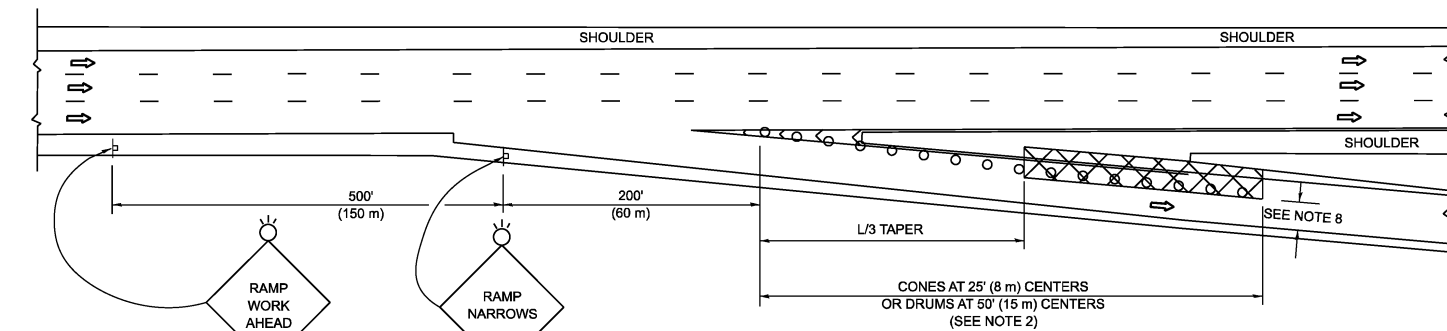
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

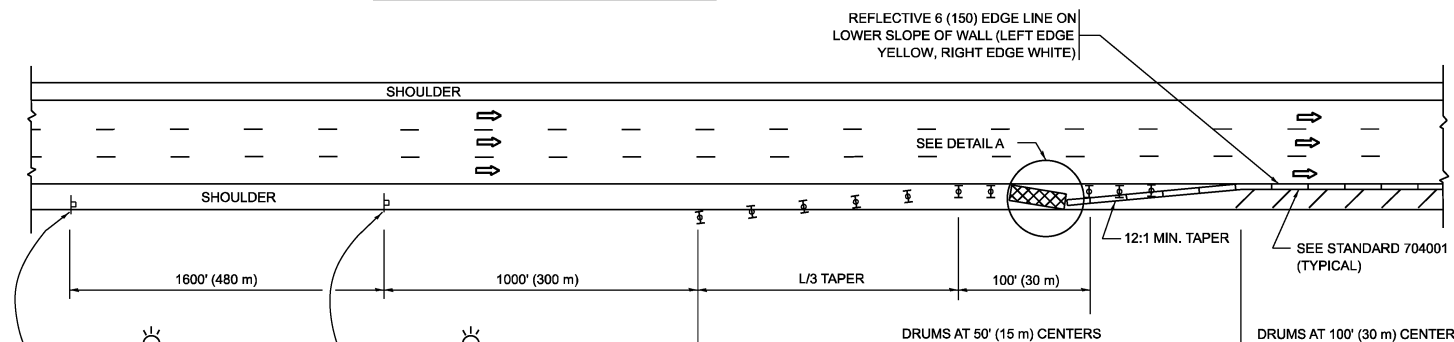
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

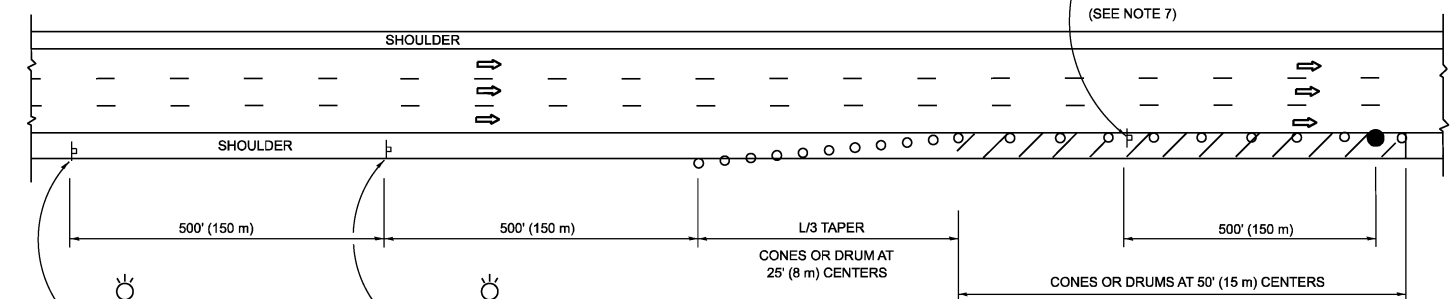
- THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(W)(S)$ $L=(W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
- TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

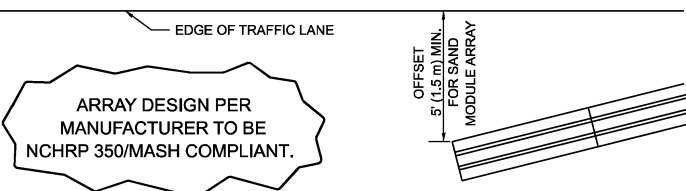


PERMANENT SHOULDER CLOSURE



TEMPORARY SHOULDER CLOSURE

- THIS DETAIL IS USED WHERE:
- VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



**DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)**

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - THE WORK ACTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

- 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.
- TEMPORARY SHOULDER AND NON-SYSTEM INTERCHANGE PARTIAL RAMP CLOSURES ARE ALLOWED WEEKDAYS BETWEEN 9:00 A.M. AND 3:00 P.M. AND BETWEEN 7:00 P.M. AND 5:00 A.M. OR AS APPROVED BY THE EXPRESSWAY TRAFFIC OPERATIONS ENGINEER. PERMANENT SHOULDER AND PARTIAL RAMP CLOSURES WILL ONLY BE PERMITTED IF CALLED FOR IN THE PLANS OR AS APPROVED BY THE EXPRESSWAY OPERATIONS ENGINEER.

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

MODEL: TC17 (Sheet)
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USER NAME = ivan.diaz	DESIGNED -	REVISED - M.D. 06-13
	DRAWN - D.W.S.	REVISED - M.D. 01-18
	CHECKED -	REVISED - M.D. 10-20
PLOT DATE = 12/4/2025	DATE - 11-96	REVISED - D.S. 05-24

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

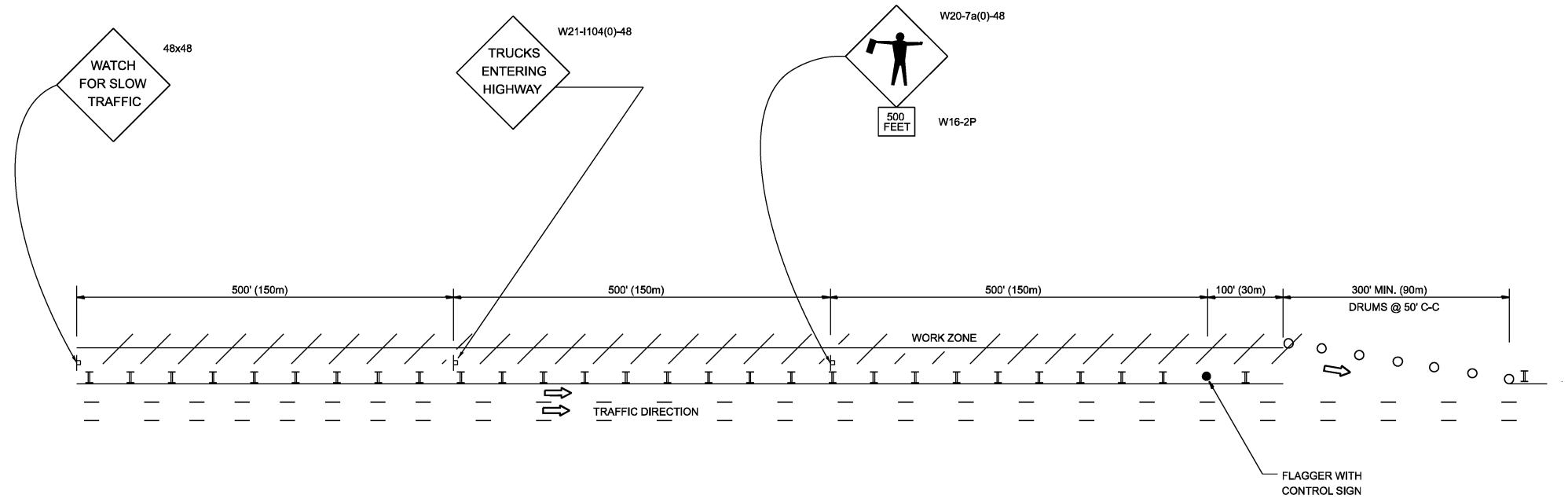
**TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

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

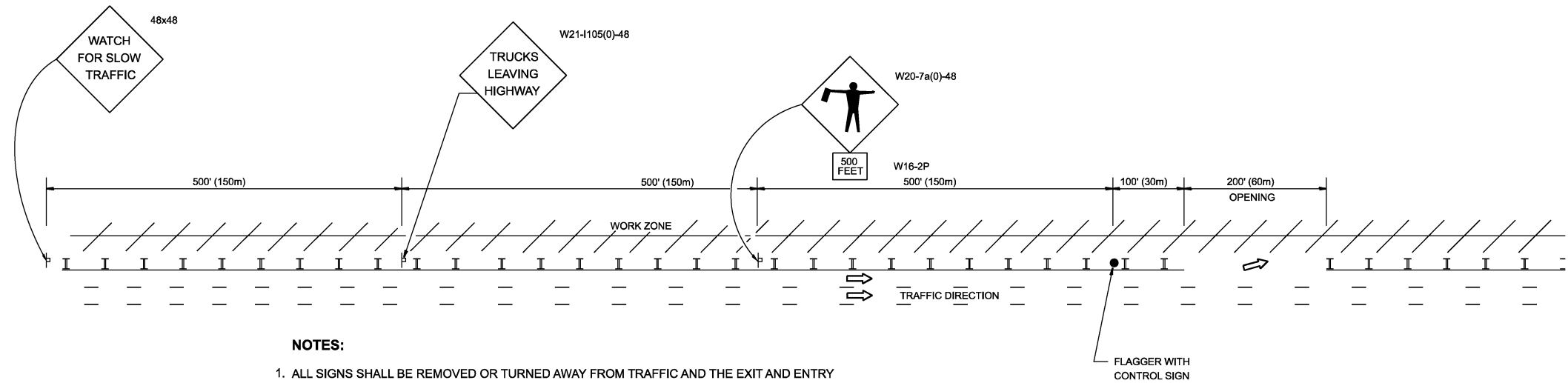
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	191
TC-17			CONTRACT NO. 62X44	
ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMP.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

MODEL: TC-18 (Sheet)
FILE NAME: c:\p\work\pww\102925-shr-Dls\Site.dgn

USER NAME = ivan.diaz	DESIGNED -
	DRAWN -
	CHECKED -
PLOT DATE = 12/4/2025	DATE -

REVISED - J.A.F. 02-06
REVISED - S.P.B. 01-07
REVISED - S.P.B. 12-09
REVISED - M.D.06-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FREEWAY / EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS ON FREEWAYS / EXPRESSWAYS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2024-1009-BDS	COOK	192	192
TC-18			CONTRACT NO. 62X44	
ILLINOIS FED. AID PROJECT				