

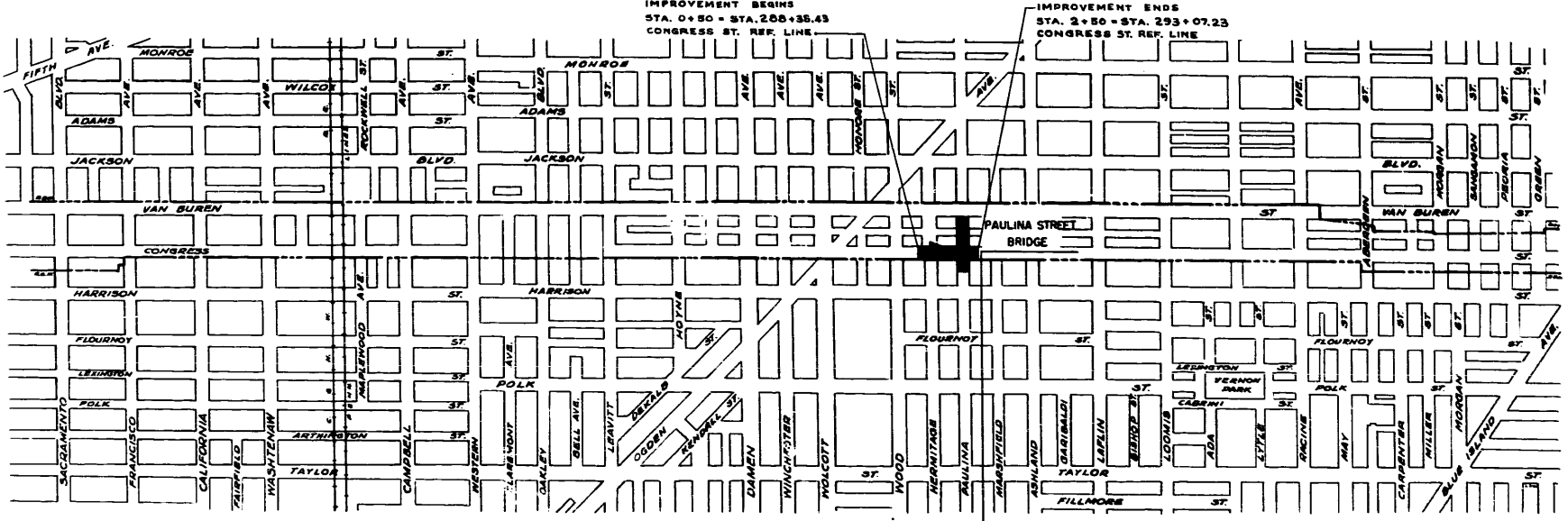
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

PAULINA STREET GRADE SEPARATION
COOK COUNTY
CONGRESS STREET EXPRESSWAY
F. A. ROUTE 131 SECTION 3-B-5 & 3-F-5
PROJECT U.I.261(68)

BOND ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. 131	3-B-5 3-F-5	COOK	29	1
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(68)		

INDEX OF SHEETS

- SHEET NO.
1. TITLE SHEET.
 2. QUANTITIES & GENERAL NOTES.
 3. LOCATION PLAN & PROFILE.
 4. N. & So. APPROACHES - EXISTING PAVEM'T & UTILITIES.
 5. CONGRESS & PAULINA STS. - PROPOSED PAVING PLAN & UTILITIES.
 6. TEMPORARY DETOUR.
 7. N. & So. APPROACH DETOURS & BARRICADE DETAILS.
 8. APPROACH SLAB DETAILS.
 9. EXCAVATION & BACKFILL PAY LIMITS.
 10. BORING DATA.
 11. DESIGN DATA.
 12. ARCHITECTURAL ELEVATION & DETAILS.
 13. PILING PLAN.
 14. DECK FRAMING PLAN.
 15. DIAFRAM CONNECTIONS & DETAILS.
 16. BEARING & SPLICE DETAILS.
 17. EXPANSION JOINT DETAILS.
 18. PIERS & DETAIL SECTIONS.
 19. PIER REINFORCEMENT.
 20. ABUTMENT PLAN & ELEVATION.
 21. WINGWALL PLAN, ELEVATION & SECTIONS.
 22. ABUTMENT REINFORCEMENT.
 23. REINFORCEMENT OF WINGWALL & SECTIONS.
 24. CONCRETE DECK DETAILS.
 25. CONCRETE DECK REINFORCEMENT.
 26. REINFORCEMENT BAR LIST.
 27. STANDARD MANHOLES & PAVING DETAILS.
 28. STANDARD NAME PLATES & METAL JOINTS.
 29. STANDARD CONSTRUCTION SIGNS & SITE PLAN OF BENCH MARKS.
 - 29A STANDARD 10-218, 2015R, 2016R, 1971S
 - 29B STANDARD 1516R, 1775R, 10-SS-501



SEC. 3-B-5 Includes the construction of a W-Beam Grade Separation Structure and Paved Approaches (on Paulina Street) over Congress St. Expressway, spans 2 @ 65'-9 1/2" & 2 @ 69'-1 1/4" @ Sta. 292+24.23 (reference line) of the intersection of Paulina St. and Congress Street Expressway, in Chicago, with the exception of furnishing and fabricating structural steel, furnishing and applying shop coat of paint & delivery of structural steel to b. C. & N.W. Railway Siding at Kirgic & Morgan Sts.,* and also includes miscellaneous road work.

SEC. 3-F-5 Includes furnishing and fabrication of Structural Steel, furnishing and applying shop coat of paint and delivery of the Structural Steel f.o.b. C. & N.W. Railway Siding @ Kirgic & Morgan Sts.* for a W-Beam Grade Separation Structure (on Paulina Street) over Congress St. Expressway, spans 2 @ 65'-9 1/2" & 2 @ 69'-1 1/4" @ Sta. 292+24.23 (reference line) of the intersection of Paulina Street and Congress Street Expressway.

*, except that delivery of Steel may be made by truck, f.o.b. job site, if satisfactory arrangements can be made with the contractor for Sec. 3-B-5,

NET LENGTH OF IMPROVEMENT 468.80 FT. = 0.088 MI.



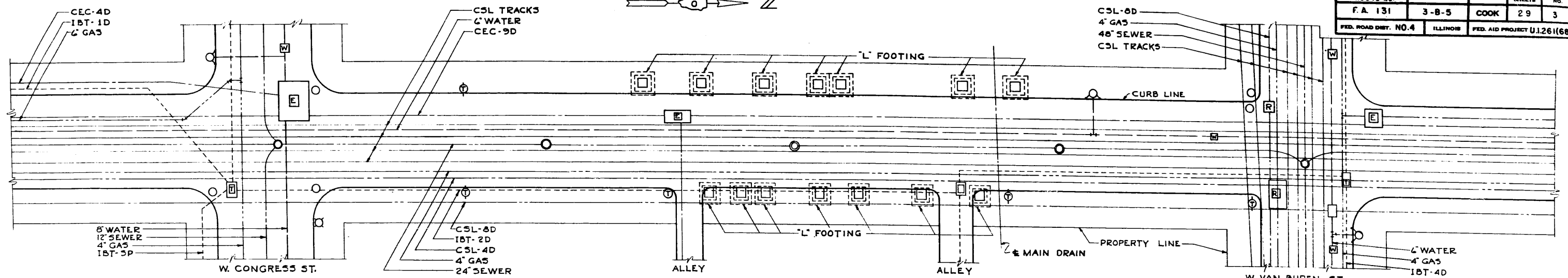
LOCATION OF SECTION INDICATED THUS

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
SUBMITTED 5-25-53
EXAMINED 7-13-53
PASSED 7-13-53
APPROVED 7-13-53
APPROVED 7-13-53

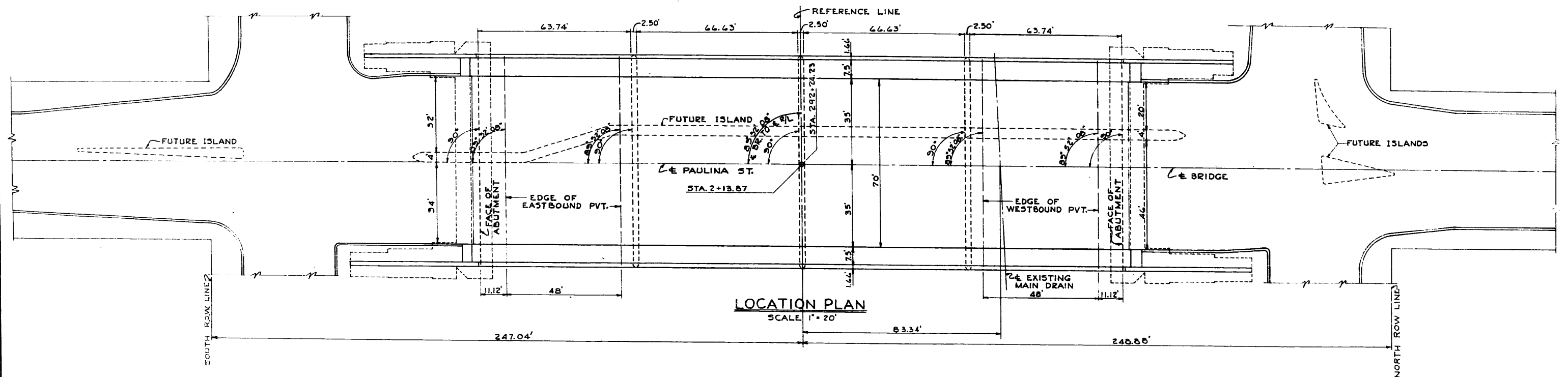
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
RECOMMENDED FOR APPROVAL

APPROVED
DISTRICT ENGINEER DATE

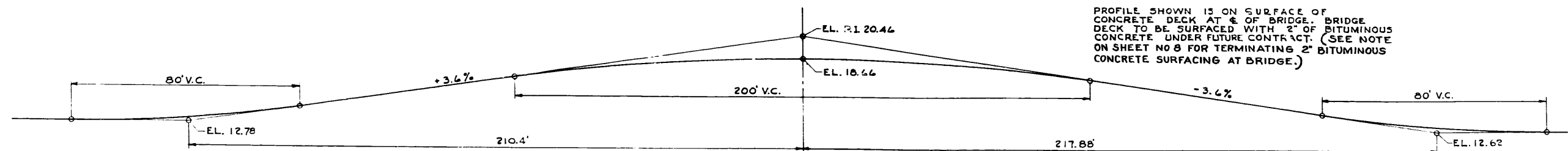
COND. ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ROUTE NO.	3-B-5	COOK	29	3
F.A. 131				
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.1261(68)		



PLAN OF EXISTING STREET
SCALE 1" = 20'



LOCATION PLAN
SCALE 1" = 20'



PROFILE SHOWN IS ON SURFACE OF CONCRETE DECK AT E OF BRIDGE. BRIDGE DECK TO BE SURFACED WITH 2" OF BITUMINOUS CONCRETE UNDER FUTURE CONTRACT. (SEE NOTE ON SHEET NO 8 FOR TERMINATING 2" BITUMINOUS CONCRETE SURFACING AT BRIDGE.)

NOTES

FOR PAVEMENT, SEWER DETAILS, & TEMPORARY CAR TRACK LOCATION SEE SHS. 4, 6, & 8.
FOR EXCAVATION AND BACKFILL PAYLIMITS SEE SH. 9.
THE LOCATION AND SIZES OF THE CONDUITS, PIPES, MANHOLES, AND OTHER SUB-SURFACE UTILITY EQUIPMENT SHOWN ON THIS DRAWING ARE BASED ON THE BEST INFORMATION OBTAINABLE AND ARE BELIEVED TO BE ACCURATE BUT CANNOT BE GUARANTEED. ADDITIONAL ABANDONED UTILITIES MAY BE ENCOUNTERED. FOR PROCEDURE IN HANDLING THESE ABANDONED UTILITIES SEE SPECIAL PROVISIONS.

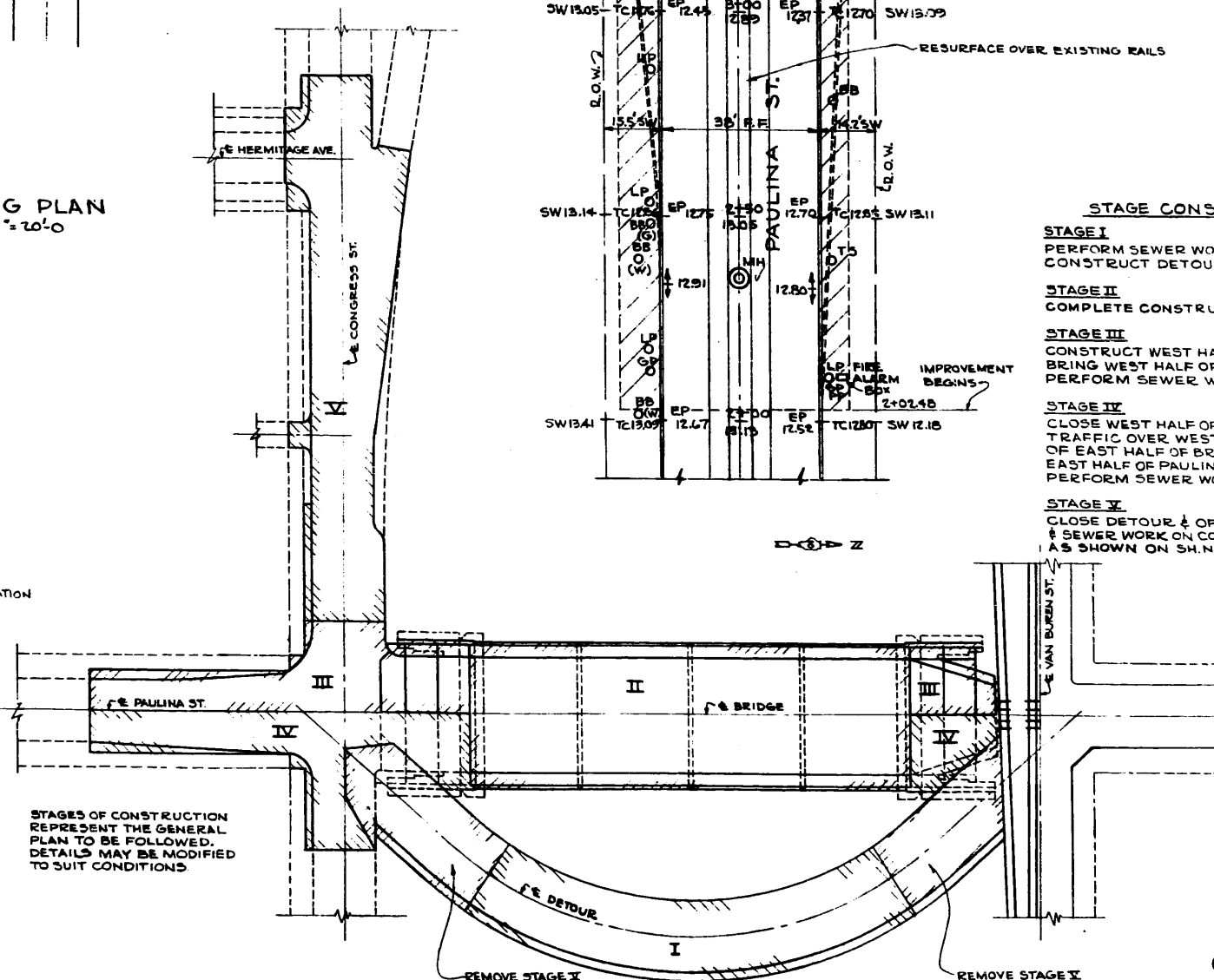
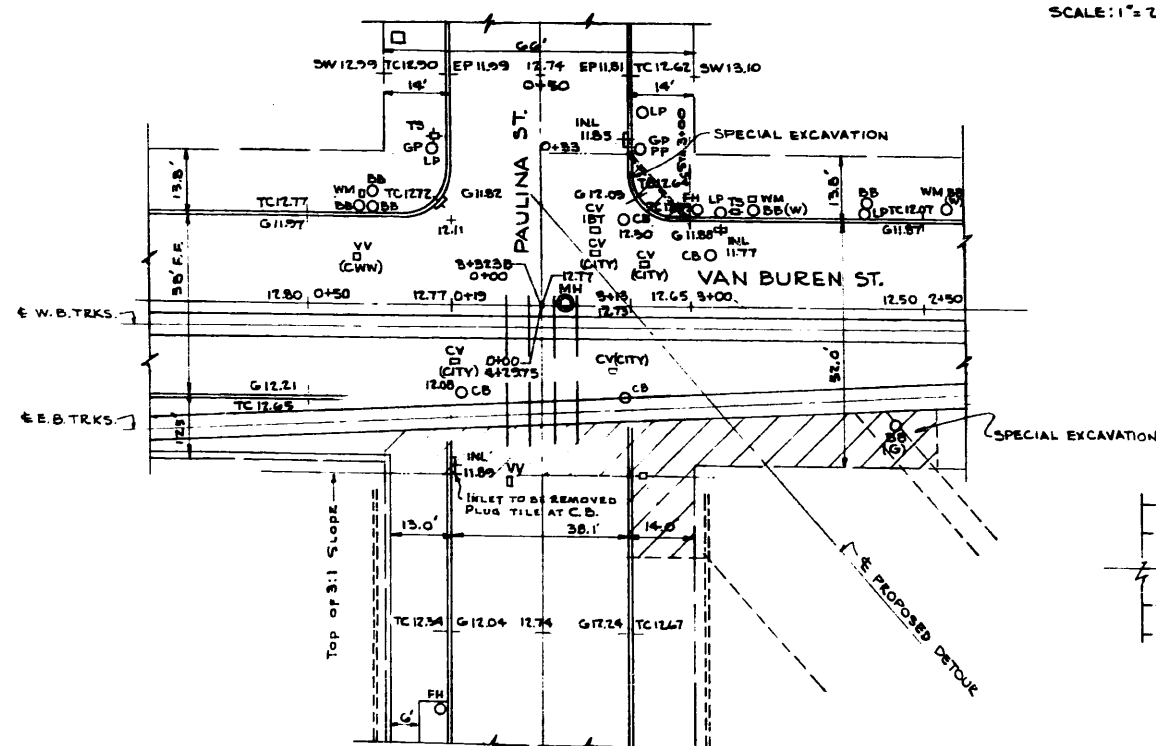
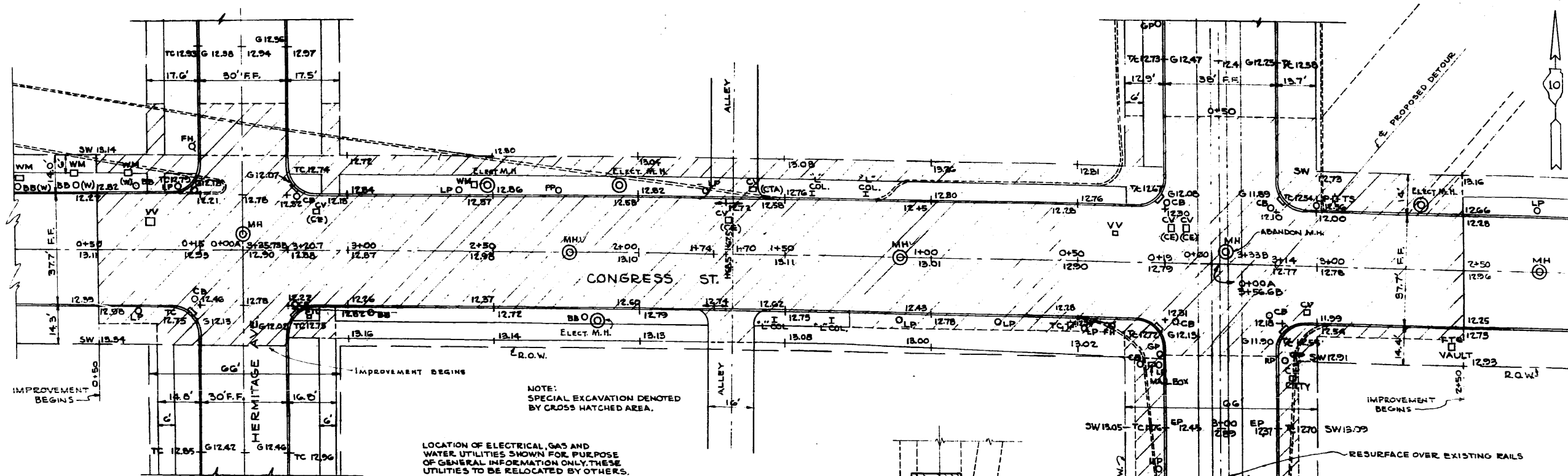
PROFILE
SCALE HORIZ. 1" = 20', VERT. 1" = 5'

DE LEUW, CATHY & CO. ENGINEERS
DESIGNED BY
DRAWN BY A. K. MASHNIS
CHECKED J. D. GASSAMAN O. NELSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5
LOCATION PLAN & PROFILE

SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-5	COOK	29	4
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I. 261(68)		

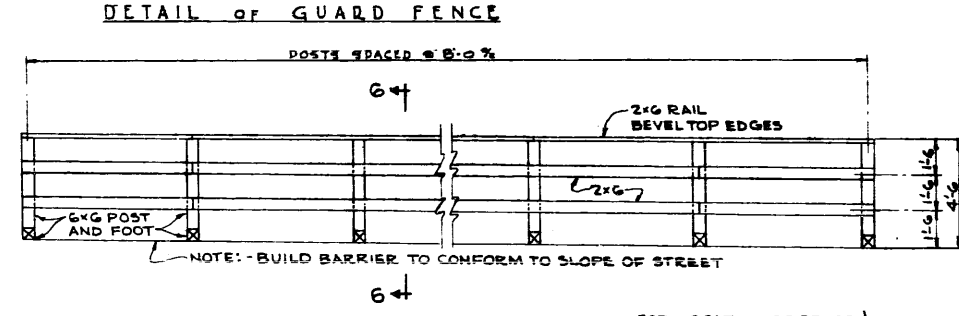
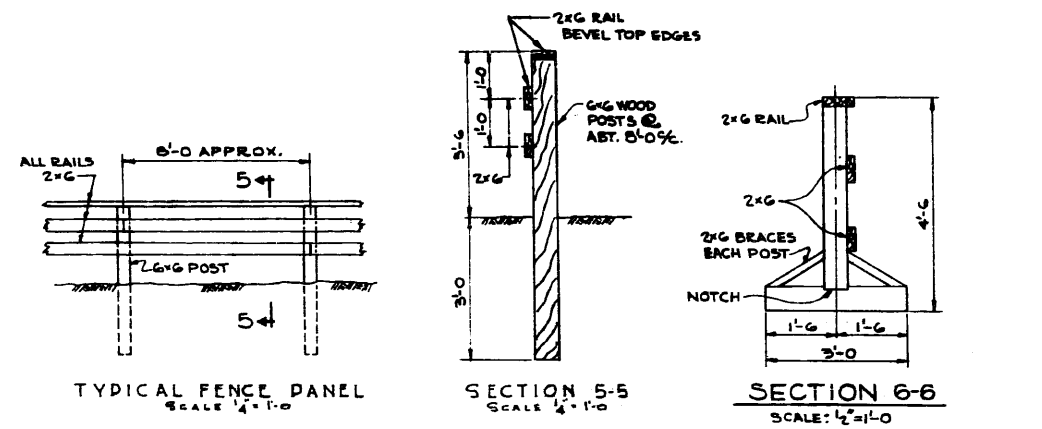


- STAGE CONSTRUCTION OF APPROACHES**
- STAGE I**
PERFORM SEWER WORK NOTED ON SH. NO. 5
CONSTRUCT DETOUR.
- STAGE II**
COMPLETE CONSTRUCTION OF BRIDGE.
- STAGE III**
CONSTRUCT WEST HALF OF BRIDGE APPROACHES.
BRING WEST HALF OF PAULINA ST. TO FINAL GRADE.
PERFORM SEWER WORK NOTED ON SH. NO. 5.
- STAGE IV**
CLOSE WEST HALF OF DETOUR & DIVERT SOUTHBOUND TRAFFIC OVER WEST HALF OF BRIDGE. COMPLETE CONSTRUCTION OF EAST HALF OF BRIDGE APPROACHES & EAST WINGWALLS.
EAST HALF OF PAULINA ST. TO BE FINISHED TO FINAL GRADE.
PERFORM SEWER WORK NOTED ON SH. NO. 5.
- STAGE V**
CLOSE DETOUR & OPEN BRIDGE TO TRAFFIC. COMPLETE PAVING & SEWER WORK ON CONGRESS ST. REMOVE PORTION OF DETOUR AS SHOWN ON SH. NO. 6.

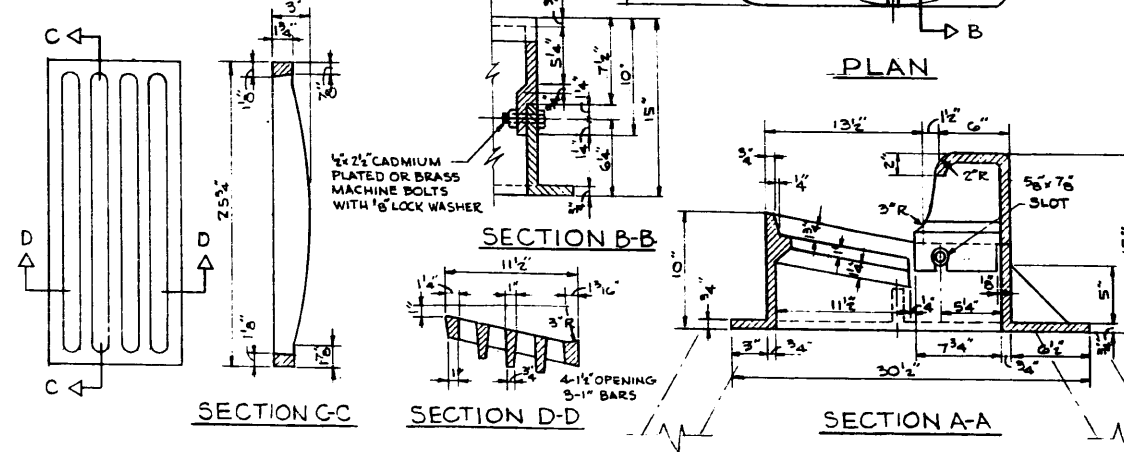
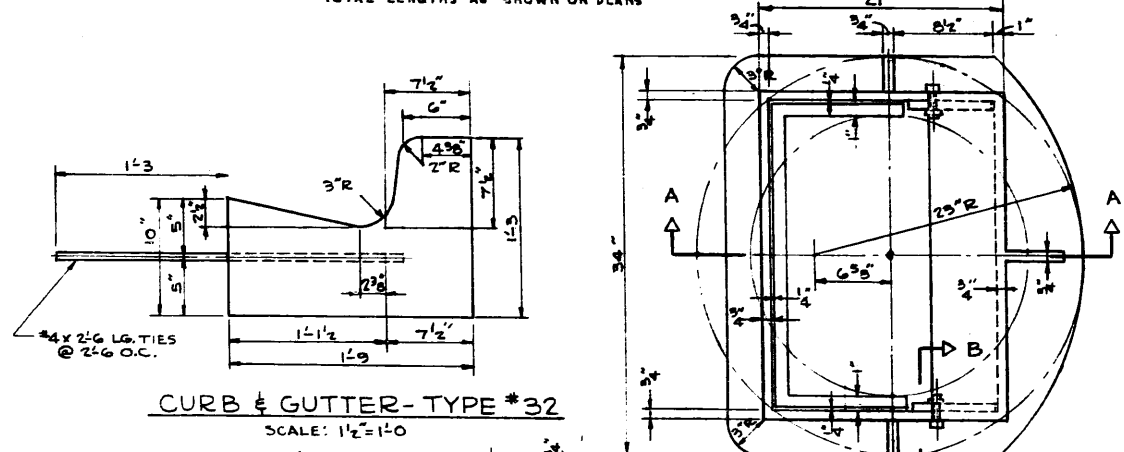
DE LEIJW, CATHER & CO. ENGINEERS
DESIGNED BY
DRAWN BY G. UJIYE
CHECKED H. O. JOHNSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5
NORTH & SOUTH APPROACHES
EXISTING PAVEMENT & UTILITIES
SCALE: AS NOTED

BOND ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-5	COOK	29	7
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT LL 261(68)		

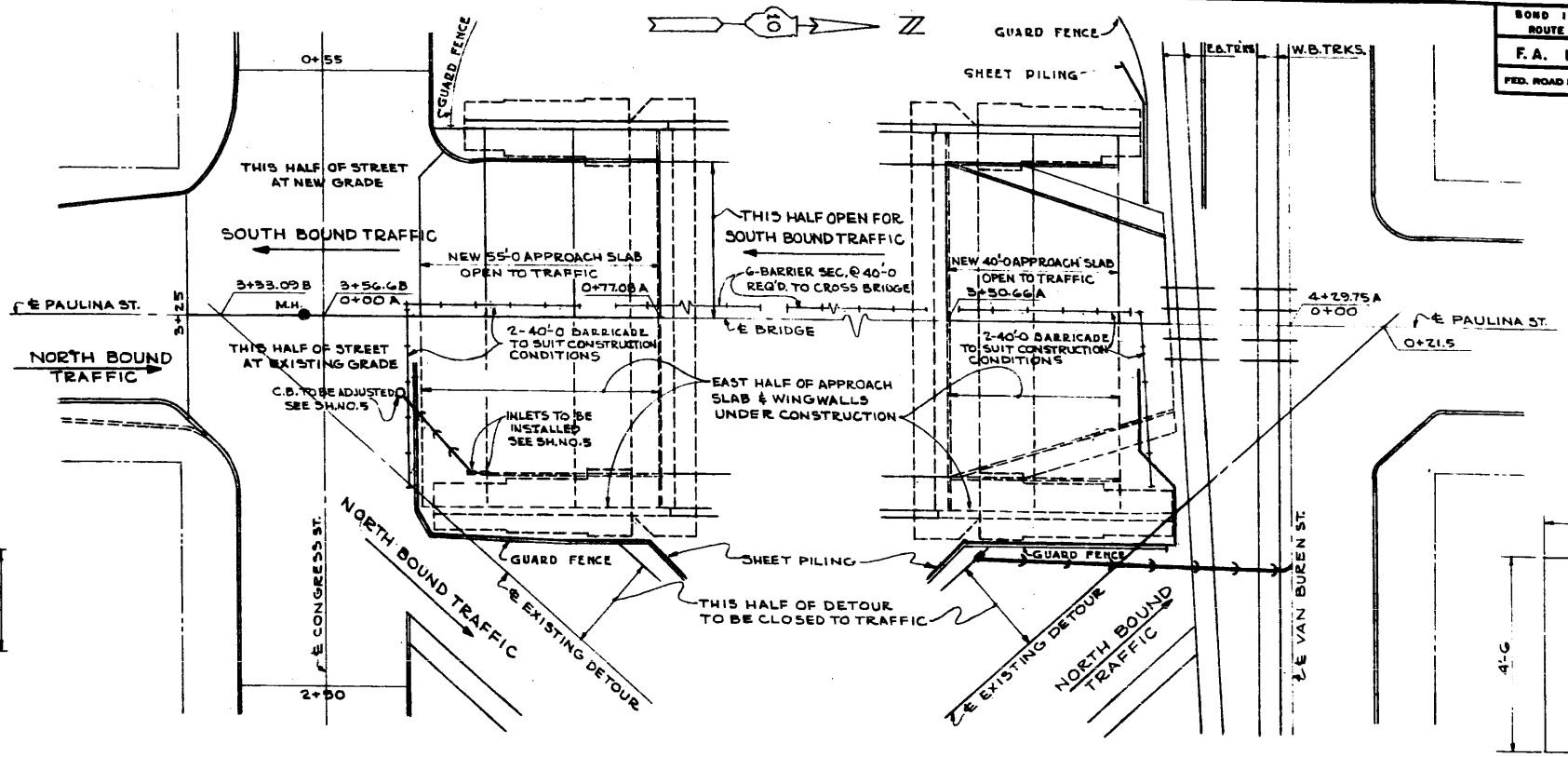


DETAIL OF BARRICADE
TOTAL LENGTHS AS SHOWN ON PLANS



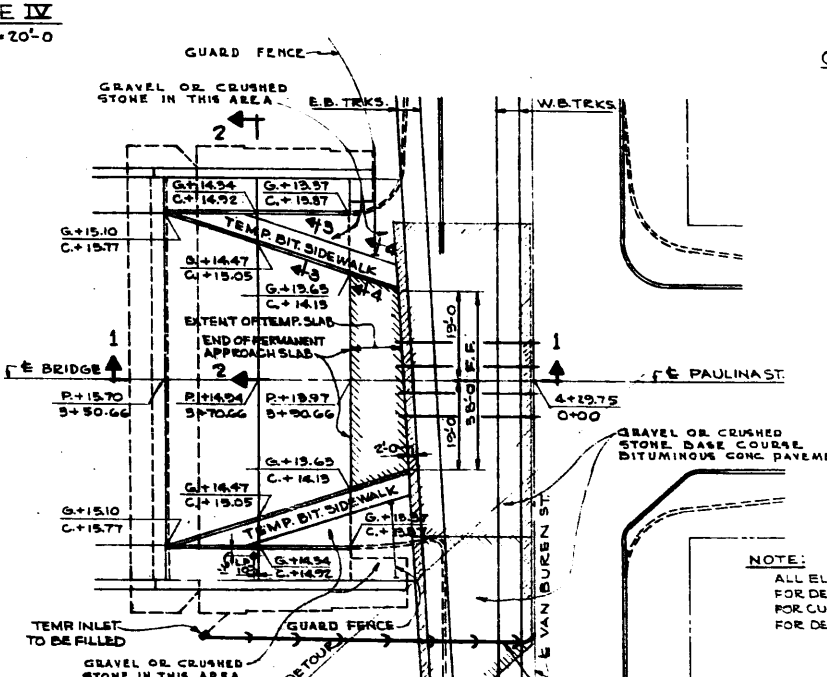
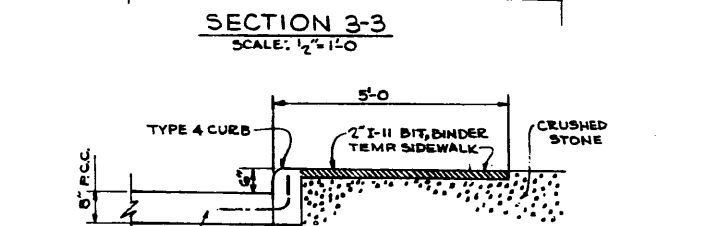
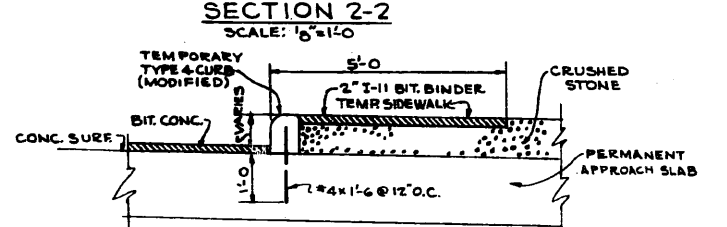
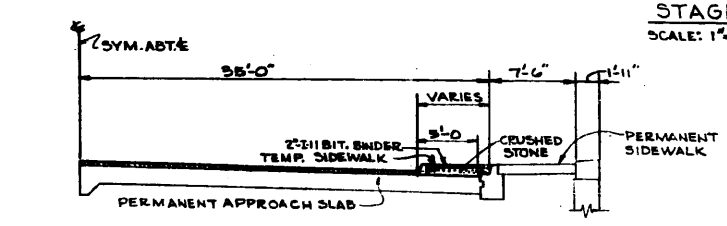
FRAME & GRATE-TYPE #32
SCALE: 1/2" = 1'-0"

NOTE: -
SEE STANDARD 10-SS-501

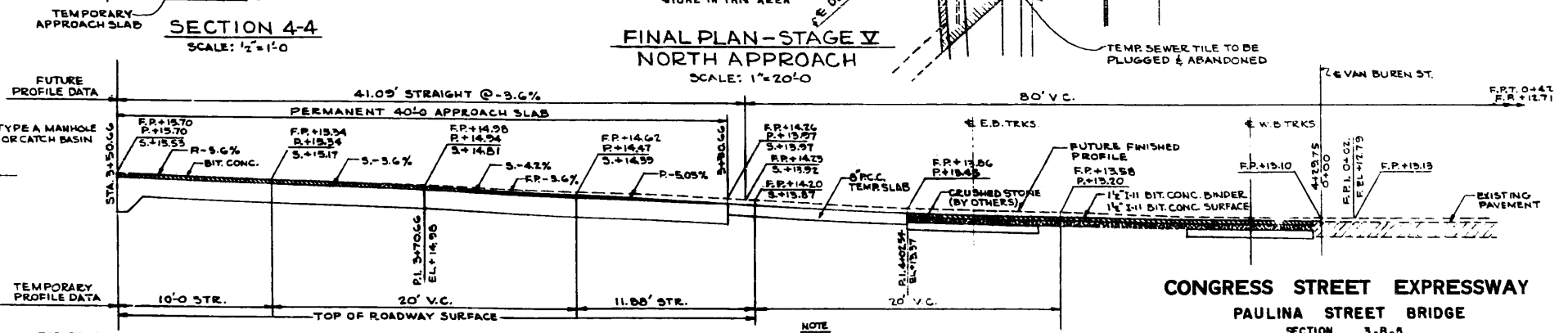


ROAD UNDER CONSTRUCTION
PLEASE DRIVE CAREFULLY

CONSTRUCTION SIGN
SEE STANDARD DRAWG 1971 S
LOCATE AS DIRECTED BY ENGINEER

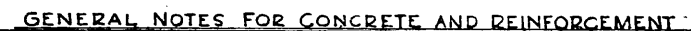
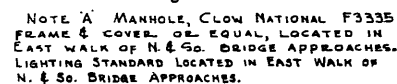


NOTE:
ALL ELEV. SHOWN TO TOP OF WEARING SURFACE.
FOR DETAILS OF SEWERS, C&I, INLETS, ETC., SEE SH. NO. 6 & 27.
FOR CURB DETAILS SEE SH. NO. 27.
FOR DETAILS OF APPROACH SLAB, SEE SH. NO. 8.



CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5
N. & S. APPROACH DETOURS & BARRICADE DETAILS
SCALE: AS NOTED

DE LEUW, CATHY & CO. ENGINEERS
DESIGNED BY
DRAWN BY G. J. NIVE
CHECKED H. O. JOHNSON
IN CHARGE



CONCRETE:
 Fc = 3500 psi. ULTIMATE STRENGTH IN 28 DAYS.
 fc = 1000 psi. n = 10
 ALL CONCRETE SHALL BE CLASS X UNLESS OTHERWISE NOTED.
 CONCRETE DECKS SHALL BE POURED IN ONE COMPLETE OPERATION
 BETWEEN CONSTRUCTION JOINTS WHICH ARE CLEARLY SHOWN ON
 THE PLANS. SEE SHEET NO. 25 FOR PLAN OF DECK CONSTRUCTION
 JOINTS.
 CONCRETE SHALL BE FINISHED IN ACCORDANCE WITH ART. 51-16 (a)
 OF THE STANDARD SPECIFICATIONS OF THE STATE OF ILLINOIS.
 EXPOSED SURFACES ARE TO BE RUBBED IN ACCORDANCE WITH
 ART. 52.14 OF THE STANDARD SPECIFICATIONS.
 UNLESS OTHERWISE NOTED ALL EXPOSED CORNERS SHALL BE CHAMFERED 1"

REINFORCEMENT:

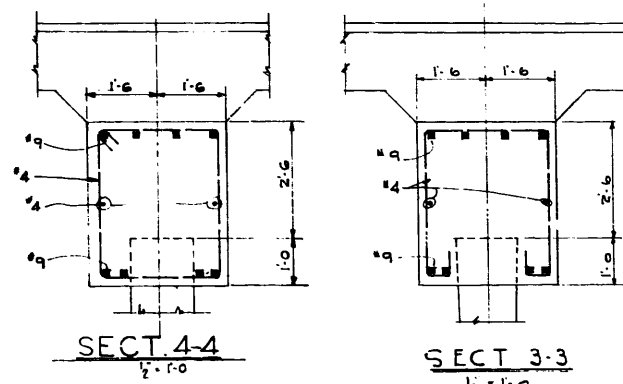
fa 20,000 psi. REINFORCING SHOWN TO BE OF INTERMEDIATE GRADE BILLET-STEEL AND TO COMPLY WITH SPECIFICATION FOR BILLET-STEEL FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A15, DEFORMATIONS, TYPE AND WEIGHTS TO CONFORM TO ASTM DESIGNATION A305.

BAR BENDING, PLACING, CLEARANCES ETC, UNLESS OTHERWISE SHOWN, SHALL BE IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 5TH EDITION, DATED 1949, AND THE MANUAL OF STANDARD PRACTICE OF THE AMERICAN CONCRETE INSTITUTE, AS AMENDED FOR NEW-TYPE BAR ASTM A305.

ALL BARS TO BE LAPPED 24 DIAMETERS AT SPLICES UNLESS OTHERWISE SHOWN. BAR EXTENSIONS TO BE AS DIMENSIONED OR TO SCALE.

BAR NUMBERS ARE BASED ON THE NUMBER OF $\frac{1}{8}$ INCHES IN THE NOMINAL DIAMETER OF AN EQUIVALENT ROUND BAR.

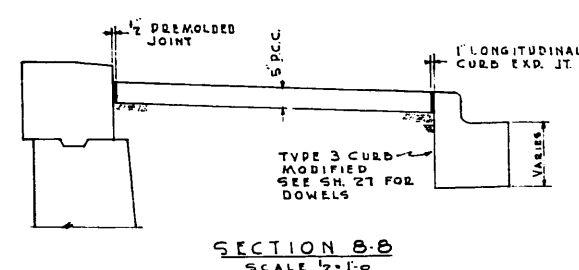
BAR SPACING IS GIVEN IN INCHES, THUS $\frac{1}{2}$ -12 = $\frac{1}{2}$ " + 12" CTR. TO CTR.



CLASS X CONCRETE IN 2 APPROACHES = 502 CY.
REINFORCEMENT IN 2 APPROACHES = 63,731 LBS.



NOTE A - ALL ELECTRICAL CONDUIT MATERIAL REQUIRED BY THE BUREAU OF ELECTRICITY WITHIN THE LIMITS OF WORK SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ELECTRICAL CONDUITS OUTSIDE LIMITS OF WORK TO BE CONSTRUCTED BY BUREAU OF ELECTRICITY-CITY OF CHICAGO.



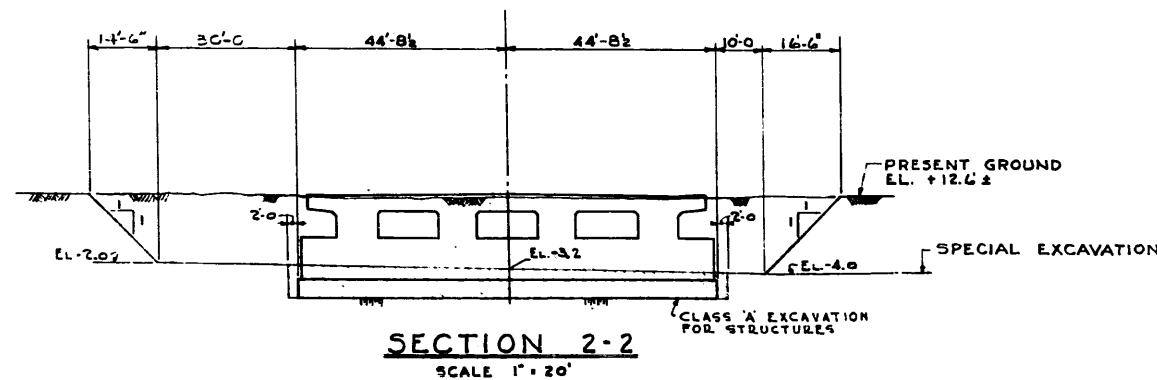
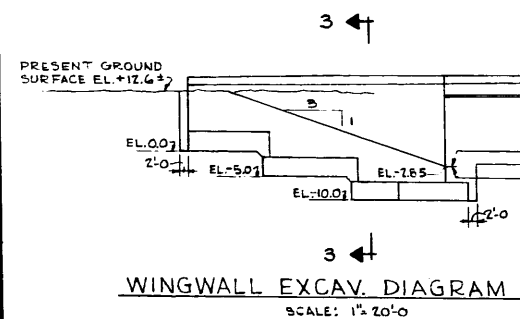
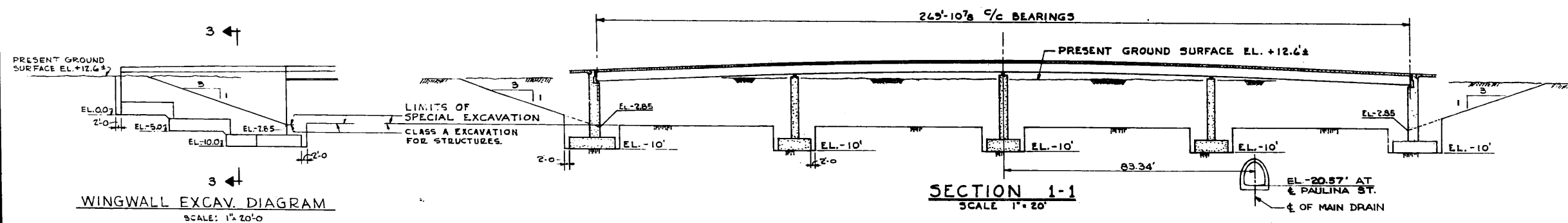
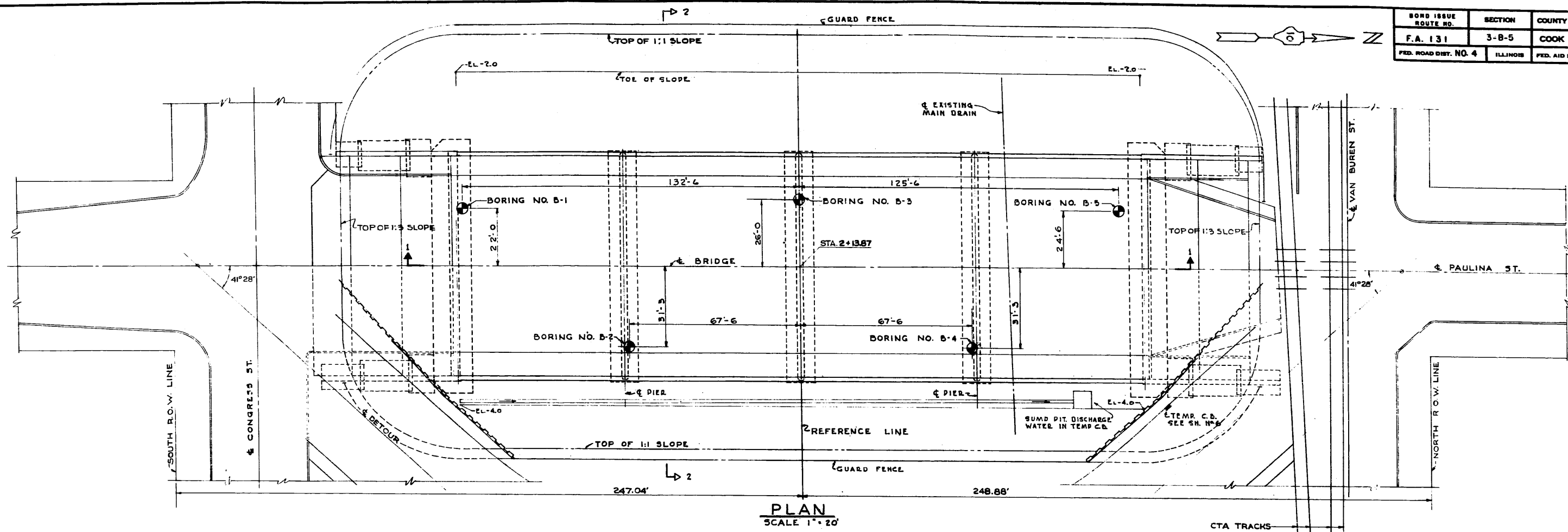
CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5

APPROACH SLAB DETAILS

SCALE: AS NOTED

DE LEUW, CATHAR & CO. ENGINEERS
DESIGNED BY S. Greenberg
DRAWN BY W. C. KUTAY
CHECKED O. NELSON
IN CHARGE J. H. Hude

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-5	COOK	29	9
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(58)		



FOR BORING DATA SEE SHEET NO. 10
FOR DETAIL OF DETOUR SEE SHEET NO. 6

CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5
EXCAVATION & BACKFILL PAY LIMITS

SCALE: AS NOTED

DE LEUW, CATHAR & CO. ENGINEERS
DESIGNED BY
DRAWN BY A.K. MAGENNIS
CHECKED O. NELSON
IN CHARGE

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-5	COOK	29	10
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.1.26(68)		

BORING NOTES

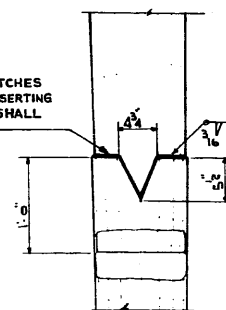
FIGURES UNDER COLUMN HEADED "BLOWS/FT." INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE SAMPLING SPOON ONE FOOT, USING 140 LB. WEIGHT FALLING 30 INCHES. SPOON INSIDE DIA. OUTSIDE DIA.

FOR LOCATION OF BORINGS SEE SHEET NO. 9.

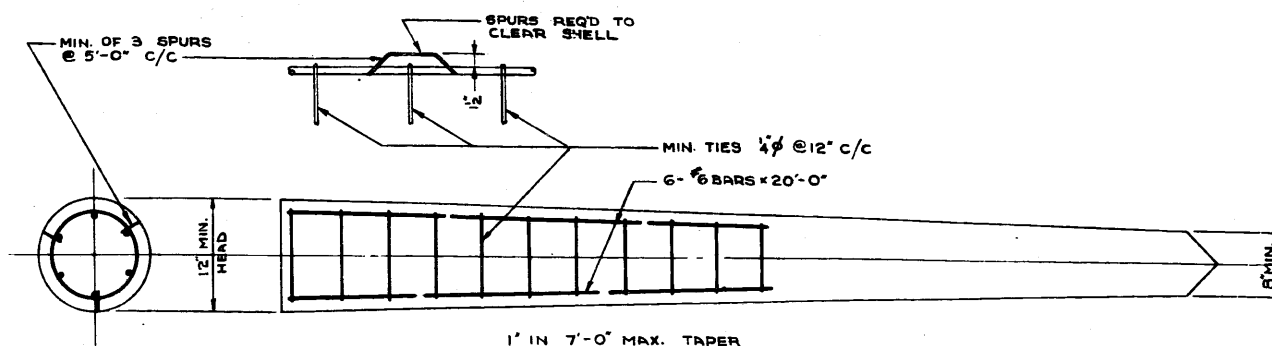
ELEVATIONS SHOWN ARE BASED ON THE STANDARD CHICAGO CITY DATUM.

BORING DATA SHOWN AS A GUIDE FOR BIDDERS IN ESTIMATING SOIL CONDITIONS WHICH MAY BE ENCOUNTERED.

BURN 4 EQUALLY SPACED NOTCHES IN LOWER SECTION BEFORE INSERTING EXTENSION. WELD AT JOINT SHALL BE $\frac{3}{8}$ " CONTINUOUS



METAL SHELL SPLICE DETAIL



DETAIL OF CAST IN PLACE PILE

PILE NOTES:

PILES WITH A MIN. SHELL THICKNESS OF $\frac{3}{8}$ " OR GREATER IF REQUIRED FOR DRIVING CONDITIONS NEED NOT BE REINFORCED, EXCEPT PILES SUPPORTING THE APPROACH SLABS, FOR WHICH SEE NOTE "A"

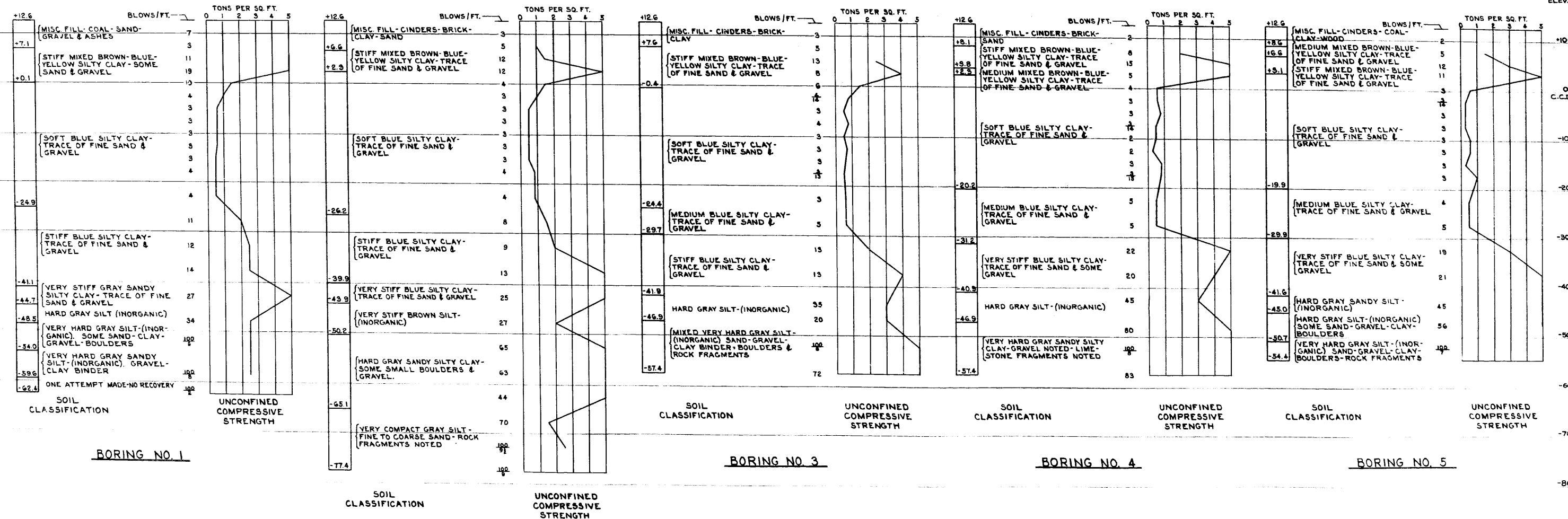
PILES DRIVEN WITH A MANDREL MAY BE OF LESS THAN $\frac{3}{8}$ " WALL THICKNESS & SHALL BE REINFORCED WITH 6-#6 BARS x 20'-0" LONG CAST IN THE UPPER SECTION OF THE PILE.

NOTE "A"

ALL PILES SUPPORTING APPROACH SLABS SHALL BE REINFORCED WITH 6-#6 BARS x 20'-0" LONG CAST IN THE UPPER SECTION OF THE PILE.

ALL PILING REINFORCEMENT MUST BE FABRICATED IN A CAGE WITH SPURS TIES ETC AS SHOWN & LOWERED INTO SHELL AS A UNIT.

SEE ART. 62.4 OF THE STANDARD SPECIFICATION.



DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY
DRAWN BY H.W. LYON
CHECKED J.R. GAGGAMAN O. NELSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5
BORING DATA

SCALE: AS NOTED

ROAD ISSUE	SECTION	COUNTY	TOTAL	SHEET
ROUTE NO.	3-B-5	COOK	29	11
F.A. 131				
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT	U.126168	

DESIGN DATA

LOADINGS:

DEAD LOAD

CONCRETE 150⁰/C.F.
2" WEARING SURFACE 25⁰/S.F.

LIVE LOAD

H20-S16-44 AASHO SPEC. OF 1948
16" WHEEL LOAD USED IN DESIGN OF
CONCRETE DECK AND APPROACH SLAB.

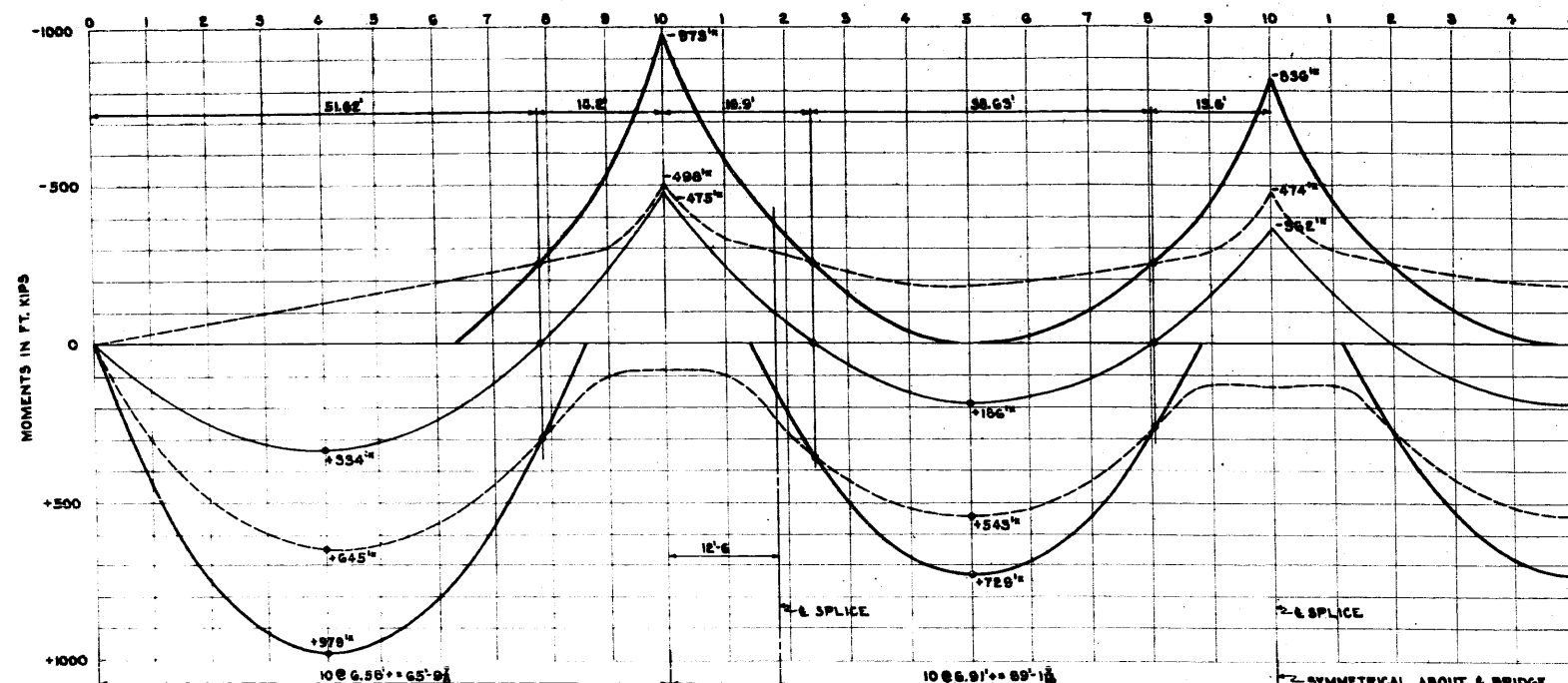
EARTH PRESSURE

UNIT WEIGHT 116⁰/C.F.
MAX. LATERAL PRESSURE 48⁰/S.F.
MIN. LATERAL PRESSURE 31⁰/S.F.
WALL FRICTION NEGLECTED

TEMPERATURE

EXPANSION COEFFICIENT FOR CONCRETE
.000006

ALL DESIGN CRITERIA, LOADS AND DISTRIBUTION, FORCES, WORKING STRESSES, CONSTRUCTION AND SPECIFICATIONS TO CONFORM TO AASHO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 5TH EDITION, 1948, UNLESS OTHERWISE NOTED.

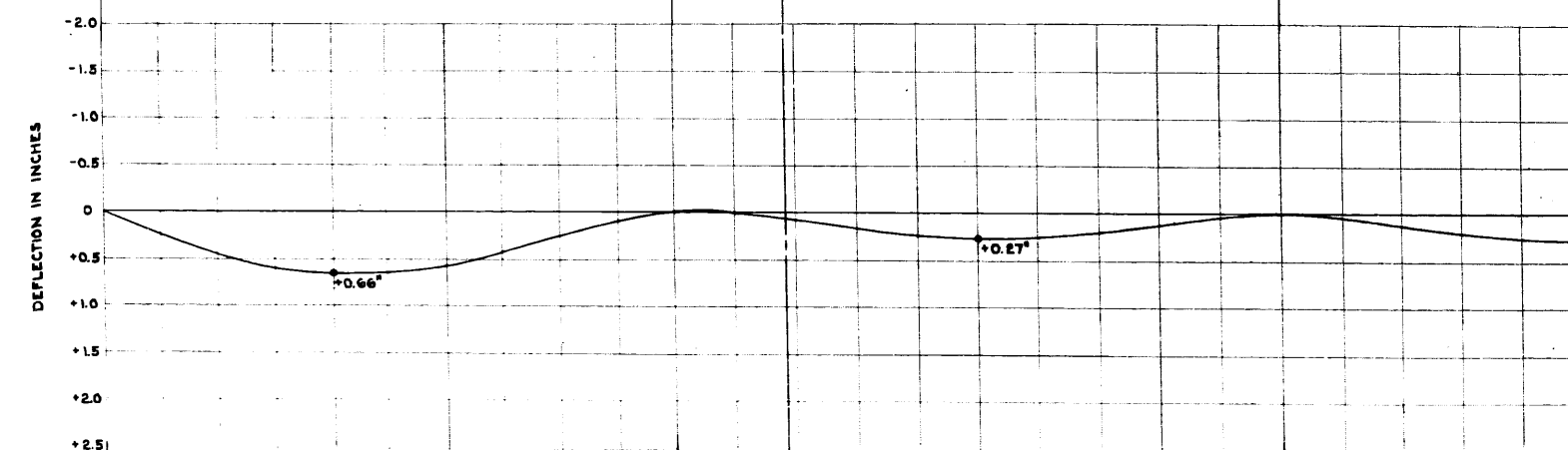


MOMENT DIAGRAM

INTERIOR STRINGER
HORIZ. SCALE 1"=1'-0"
VERT. SCALE 1"=300"

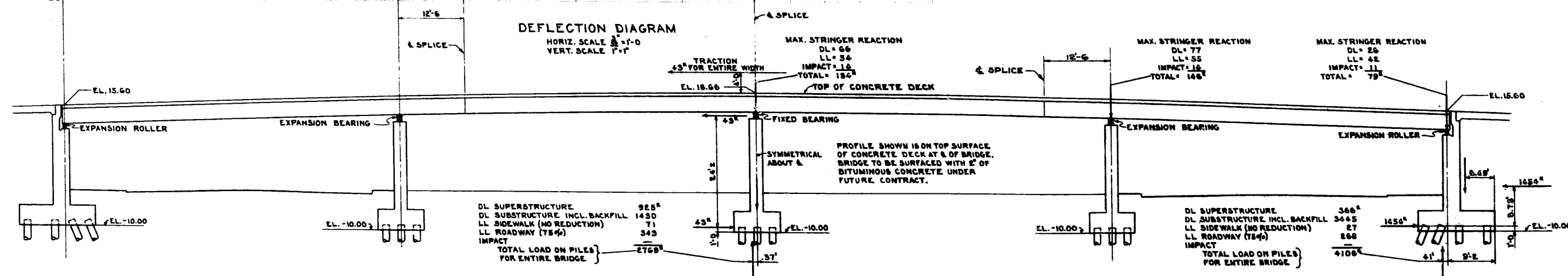
LEGEND

— DEAD LOAD
--- LL + H20-S16-44 - IMPACT INCLUDED
— TOTAL LOAD (DL + MAX. LL + IMPACT)



DEFLECTION DIAGRAM

HORIZ. SCALE 1"=1'-0"
VERT. SCALE 1"=1"



REACTION DIAGRAM

SCALE 1"=1'-0"

DE LEUW, CATHY & CO. ENGINEERS

DESIGNED BY R. HEWITSON

DRAWN BY H.W. LYON

CHECKED O. NELSON

IN CHARGE J. NELSON

CONGRESS STREET EXPRESSWAY

PAULINA STREET BRIDGE

SECTION 3-B-5

DESIGN DATA

SCALE: AS NOTED

Architectural drawing of the Congress Street Expressway at Paulina Street Bridge, showing various elevations and details.

Table 1: Project Information

ROAD ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 131	3-B-5	COOK	29	12

Table 2: Bridge Details

SECTION	SCALE	DESCRIPTION
EAST ELEVATION OF BRIDGE	SCALE 1/8"=1'-0"	WEST ELEVATION OPPOSITE HAND
ELEVATION OF PIER	SCALE 1/8"=1'-0"	
ELEVATION OF SOUTH ABUTMENT	SCALE 1/8"=1'-0"	
SECTION 1-1	SCALE 1/2"=1'-0"	
SECTION 2-2	SCALE 1/2"=1'-0"	
DETAIL 'A'	SCALE 1 1/2"=1'-0"	
TYPICAL SECTION V-GROOVE DETAIL		

Table 3: Bridge Specifications

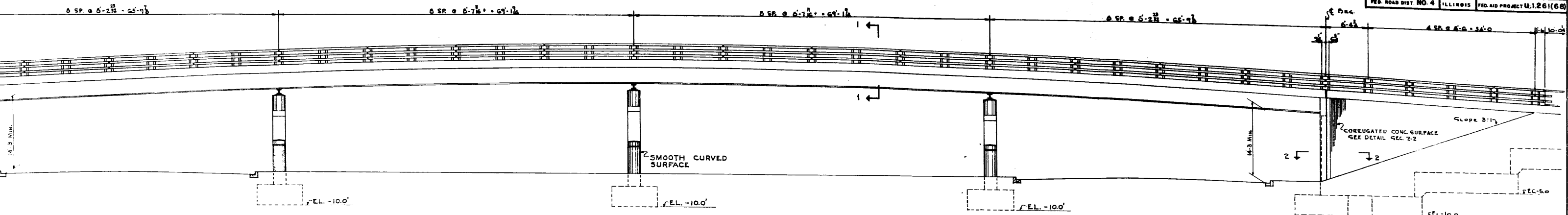
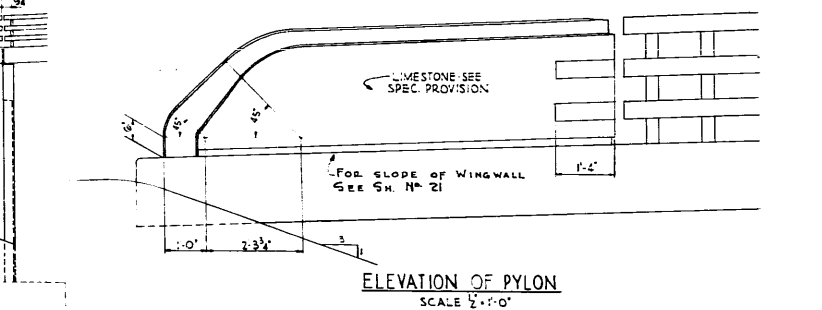
ITEM	DESCRIPTION
1	CONCRETE
2	STEEL
3	WELD
4	ANCHOR BOLTS
5	ANCHOR PLATE
6	ANCHOR BOLT ASSEMBLY
7	ANCHOR BOLT
8	ANCHOR PLATE
9	ANCHOR BOLT ASSEMBLY
10	ANCHOR BOLT
11	ANCHOR PLATE
12	ANCHOR BOLT ASSEMBLY
13	ANCHOR BOLT
14	ANCHOR PLATE
15	ANCHOR BOLT ASSEMBLY
16	ANCHOR BOLT
17	ANCHOR PLATE
18	ANCHOR BOLT ASSEMBLY
19	ANCHOR BOLT
20	ANCHOR PLATE
21	ANCHOR BOLT ASSEMBLY
22	ANCHOR BOLT
23	ANCHOR PLATE
24	ANCHOR BOLT ASSEMBLY
25	ANCHOR BOLT
26	ANCHOR PLATE
27	ANCHOR BOLT ASSEMBLY
28	ANCHOR BOLT
29	ANCHOR PLATE
30	ANCHOR BOLT ASSEMBLY
31	ANCHOR BOLT
32	ANCHOR PLATE
33	ANCHOR BOLT ASSEMBLY
34	ANCHOR BOLT
35	ANCHOR PLATE
36	ANCHOR BOLT ASSEMBLY
37	ANCHOR BOLT
38	ANCHOR PLATE
39	ANCHOR BOLT ASSEMBLY
40	ANCHOR BOLT
41	ANCHOR PLATE
42	ANCHOR BOLT ASSEMBLY
43	ANCHOR BOLT
44	ANCHOR PLATE
45	ANCHOR BOLT ASSEMBLY
46	ANCHOR BOLT
47	ANCHOR PLATE
48	ANCHOR BOLT ASSEMBLY
49	ANCHOR BOLT
50	ANCHOR PLATE

Table 4: Bridge Dimensions

ITEM	DESCRIPTION	VALUE
1	70' ROADWAY	70'
2	7' SIDEWALK	7'
3	10' SIDEWALK	10'
4	10' SIDEWALK	10'
5	10' SIDEWALK	10'
6	10' SIDEWALK	10'
7	10' SIDEWALK	10'
8	10' SIDEWALK	10'
9	10' SIDEWALK	10'
10	10' SIDEWALK	10'
11	10' SIDEWALK	10'
12	10' SIDEWALK	10'
13	10' SIDEWALK	10'
14	10' SIDEWALK	10'
15	10' SIDEWALK	10'
16	10' SIDEWALK	10'
17	10' SIDEWALK	10'
18	10' SIDEWALK	10'
19	10' SIDEWALK	10'
20	10' SIDEWALK	10'
21	10' SIDEWALK	10'
22	10' SIDEWALK	10'
23	10' SIDEWALK	10'
24	10' SIDEWALK	10'
25	10' SIDEWALK	10'
26	10' SIDEWALK	10'
27	10' SIDEWALK	10'
28	10' SIDEWALK	10'
29	10' SIDEWALK	10'
30	10' SIDEWALK	10'
31	10' SIDEWALK	10'
32	10' SIDEWALK	10'
33	10' SIDEWALK	10'
34	10' SIDEWALK	10'
35	10' SIDEWALK	10'
36	10' SIDEWALK	10'
37	10' SIDEWALK	10'
38	10' SIDEWALK	10'
39	10' SIDEWALK	10'
40	10' SIDEWALK	10'
41	10' SIDEWALK	10'
42	10' SIDEWALK	10'
43	10' SIDEWALK	10'
44	10' SIDEWALK	10'
45	10' SIDEWALK	10'
46	10' SIDEWALK	10'
47	10' SIDEWALK	10'
48	10' SIDEWALK	10'
49	10' SIDEWALK	10'
50	10' SIDEWALK	10'

Table 5: Bridge Materials

ITEM	DESCRIPTION	VALUE
1	CONCRETE	100%
2	STEEL	100%
3	WELD	100%
4	ANCHOR BOLTS	100%
5	ANCHOR PLATE	100%
6	ANCHOR BOLT ASSEMBLY	100%
7	ANCHOR BOLT	100%
8	ANCHOR PLATE	100%
9	ANCHOR BOLT ASSEMBLY	100%
10	ANCHOR BOLT	100%
11	ANCHOR PLATE	100%
12	ANCHOR BOLT ASSEMBLY	100%
13	ANCHOR BOLT	100%
14	ANCHOR PLATE	100%
15	ANCHOR BOLT ASSEMBLY	100%
16	ANCHOR BOLT	100%
17	ANCHOR PLATE	100%
18	ANCHOR BOLT ASSEMBLY	100%
19	ANCHOR BOLT	100%
20	ANCHOR PLATE	100%
21	ANCHOR BOLT ASSEMBLY	100%
22	ANCHOR BOLT	100%
23	ANCHOR PLATE	100%
24	ANCHOR BOLT ASSEMBLY	100%
25	ANCHOR BOLT	100%
26	ANCHOR PLATE	100%
27	ANCHOR BOLT ASSEMBLY	100%
28	ANCHOR BOLT	100%
29	ANCHOR PLATE	100%
30	ANCHOR BOLT ASSEMBLY	100%
31	ANCHOR BOLT	100%
32	ANCHOR PLATE	100%
33	ANCHOR BOLT ASSEMBLY	100%
34	ANCHOR BOLT	100%
35	ANCHOR PLATE	100%
36	ANCHOR BOLT ASSEMBLY	100%

[illegible]

BOND ISSUE

SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-5	COOK	29	12

PED. ROAD DIST. NO. 4 ILLINOIS

FED. AID PROJECT U.I.261(68)

EAST ELEVATION OF BRIDGE
WEST ELEVATION OPPOSITE HAND
SCALE 1/8"=1'-0"

ELEVATION OF PYLON
SCALE 1/2"=1'-0"

PLAN OF PYLON
SCALE 1/2"=1'-0"

ELEVATION OF PIER
SCALE 1/8"=1'-0"

ELEVATION OF SOUTH ABUTMENT
SCALE 1/8"=1'-0"

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

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

DETAIL 'A'
SCALE 1 1/2"=1'-0"

TYPICAL SECTION V-GROOVE DETAIL

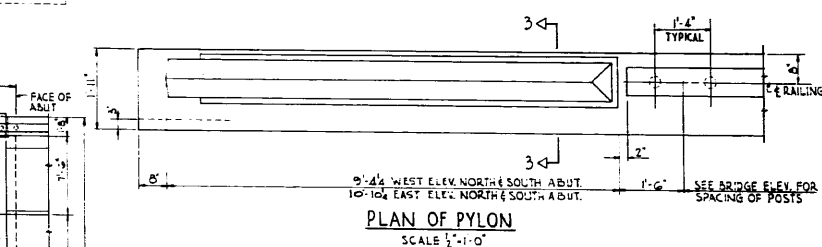
CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5
ARCHITECTURAL ELEVATION & DETAILS

LEGEND:

- SO. ABUT. STANDARD 206G INSCRIPTION TO BE USED ON NAME PL. SEE SH. 20 FOR LOCATION
- BUILT BY STATE OF ILLINOIS WITH THE CO-OPERATION OF CITY OF CHICAGO COUNTY OF COOK FEDERAL GOVERNMENT 1953
- N. ABUT. STANDARD 206T

NOTES:

- LIMESTONE - SEE SPEC. PROVISION
- FOR SLOPE OF WINGWALL SEE SH. N° 21
- SMOOTH CURVED SURFACE
- V-GROOVE SEE DETAIL
- SMOOTH CONC. SURFACE
- FINISH GRADE
- EL. -10.0'
- ANCHOR BOLT ASSEMBLY TO BE FURNISHED UNDER ITEM FOR BRIDGE RAILING
- ANCHOR BOLTS SEE DETAIL 'A'
- 10"x8"x6" ANCHOR PL. SEE DETAIL 'A'
- CEM. GROUT
- 3/4" L.H. PIPE @ 12.51'
- 4" STD. PIPE @ 16.97' ROLLED TO APPROX. DIMENSION OF 8"x5'
- 7/4 SIDEWALK
- 3/4" WELD & GRIND TO SMOOTH FINISH
- 3/4" E.H. PIPE @ 12.51'
- 2 1/2' ABUT. ONLY
- 16' TYPICAL CLEARANCE
- PUNCH FOR 1" ANCHOR BOLTS
- BURN 4" DIA. HOLE
- CORRUGATED CONC. SURFACE FORMED WITH 18 GA. 2 1/2" PITCH 1/2" BLACK CORRUGATED STEEL SHEETS



Architectural drawing of the Congress Street Expressway at Paulina Street Bridge, showing various elevations and details.

Table 1: Project Information

ROAD ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 131	3-B-5	COOK	29	12

Table 2: Bridge Details

SECTION	SCALE	DATE
1-1	1/2" = 1'-0"	1953
2-2	1/2" = 1'-0"	1953
3-3	1/2" = 1'-0"	1953

East Elevation of Bridge
West Elevation Opposite Hand
Scale 1/8" = 1'-0"

Elevation of Pier
Scale 1/8" = 1'-0"

Elevation of South Abutment
Scale 1/8" = 1'-0"

Section 1-1
Scale 1/2" = 1'-0"

Section 2-2
Scale 1/2" = 1'-0"

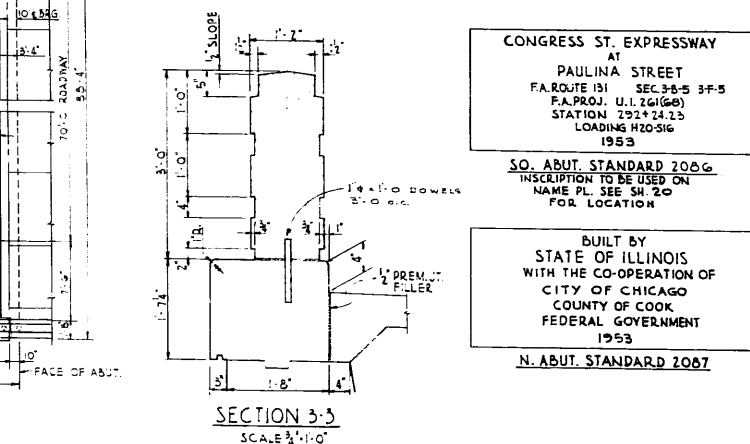
Section 3-3
Scale 1/2" = 1'-0"

Plan of Pylon
Scale 1/2" = 1'-0"

Detail A
Scale 1/2" = 1'-0"

Typical Section V-Groove Detail

Congress Street Expressway at Paulina Street Bridge
Section 3-B-5
Architectural Elevation & Details



Architectural drawing of the Congress Street Expressway at Paulina Street Bridge, showing various elevations and details.

Table 1: Project Information

ROAD ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 131	3-B-5	COOK	29	12

Table 2: Bridge Details

SECTION	SCALE	DESCRIPTION
EAST ELEVATION OF BRIDGE	SCALE 1/8"=1'-0"	WEST ELEVATION OPPOSITE HAND
ELEVATION OF PIER	SCALE 1/8"=1'-0"	
ELEVATION OF SOUTH ABUTMENT	SCALE 1/8"=1'-0"	
SECTION 1-1	SCALE 1/2"=1'-0"	
SECTION 2-2	SCALE 1/2"=1'-0"	
DETAIL 'A'	SCALE 1 1/2"=1'-0"	
TYPICAL SECTION V-GROOVE DETAIL		

Table 3: Bridge Specifications

ITEM	DESCRIPTION
1	CONCRETE
2	STEEL
3	WELD
4	ANCHOR BOLTS
5	ANCHOR PLATE
6	ANCHOR BOLT ASSEMBLY
7	ANCHOR BOLT
8	ANCHOR PLATE
9	ANCHOR BOLT ASSEMBLY
10	ANCHOR BOLT
11	ANCHOR PLATE
12	ANCHOR BOLT ASSEMBLY
13	ANCHOR BOLT
14	ANCHOR PLATE
15	ANCHOR BOLT ASSEMBLY
16	ANCHOR BOLT
17	ANCHOR PLATE
18	ANCHOR BOLT ASSEMBLY
19	ANCHOR BOLT
20	ANCHOR PLATE
21	ANCHOR BOLT ASSEMBLY
22	ANCHOR BOLT
23	ANCHOR PLATE
24	ANCHOR BOLT ASSEMBLY
25	ANCHOR BOLT
26	ANCHOR PLATE
27	ANCHOR BOLT ASSEMBLY
28	ANCHOR BOLT
29	ANCHOR PLATE
30	ANCHOR BOLT ASSEMBLY
31	ANCHOR BOLT
32	ANCHOR PLATE
33	ANCHOR BOLT ASSEMBLY
34	ANCHOR BOLT
35	ANCHOR PLATE
36	ANCHOR BOLT ASSEMBLY
37	ANCHOR BOLT
38	ANCHOR PLATE
39	ANCHOR BOLT ASSEMBLY
40	ANCHOR BOLT
41	ANCHOR PLATE
42	ANCHOR BOLT ASSEMBLY
43	ANCHOR BOLT
44	ANCHOR PLATE
45	ANCHOR BOLT ASSEMBLY
46	ANCHOR BOLT
47	ANCHOR PLATE
48	ANCHOR BOLT ASSEMBLY
49	ANCHOR BOLT
50	ANCHOR PLATE

Table 4: Bridge Dimensions

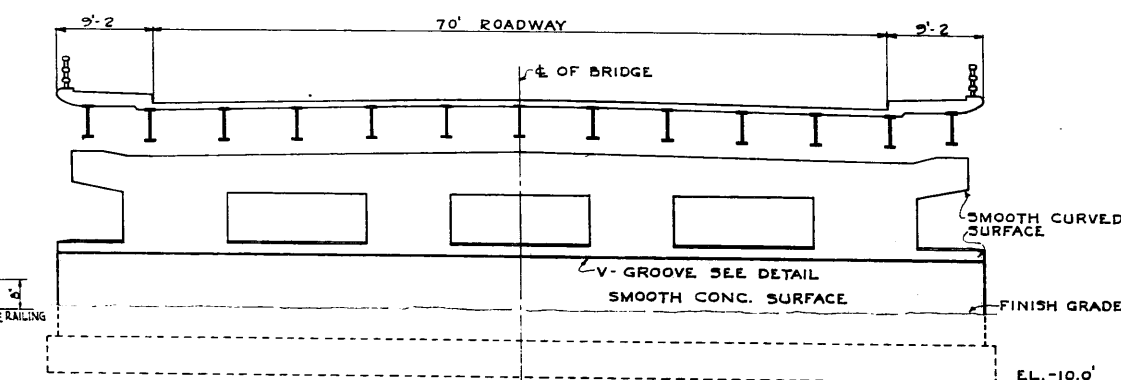
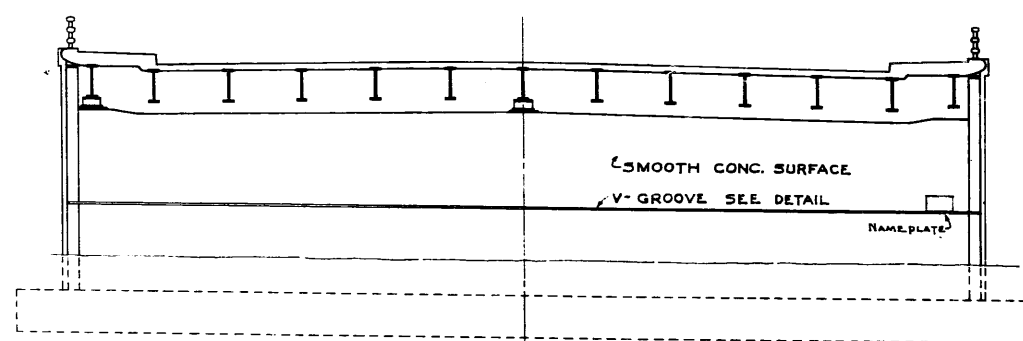
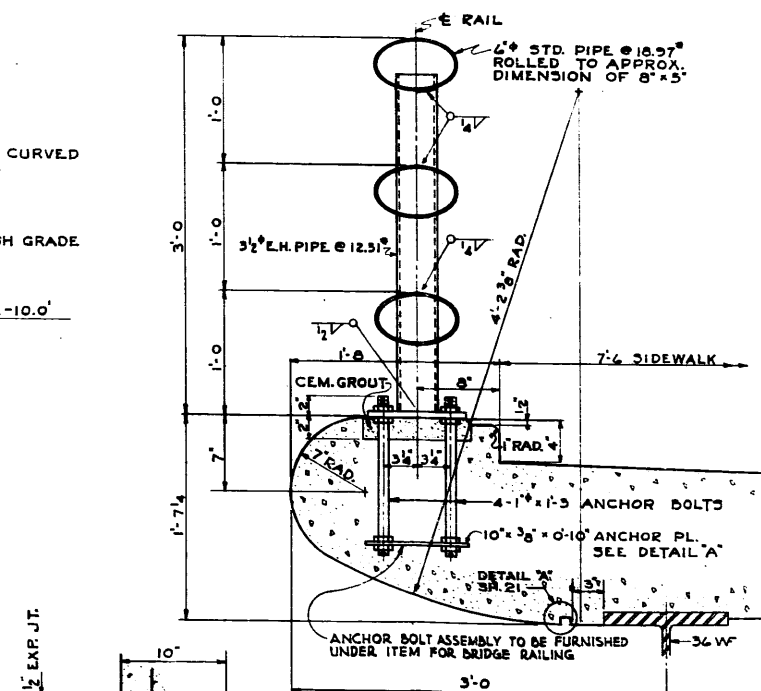
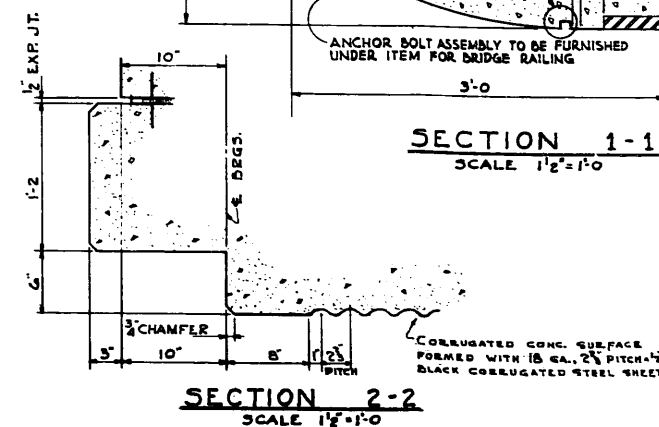
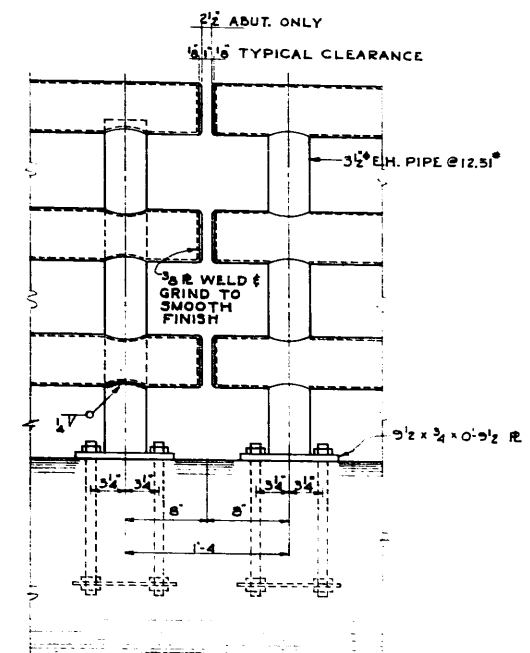
ITEM	DESCRIPTION
1	CONCRETE
2	STEEL
3	WELD
4	ANCHOR BOLTS
5	ANCHOR PLATE
6	ANCHOR BOLT ASSEMBLY
7	ANCHOR BOLT
8	ANCHOR PLATE
9	ANCHOR BOLT ASSEMBLY
10	ANCHOR BOLT
11	ANCHOR PLATE
12	ANCHOR BOLT ASSEMBLY
13	ANCHOR BOLT
14	ANCHOR PLATE
15	ANCHOR BOLT ASSEMBLY
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18	ANCHOR BOLT ASSEMBLY
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21	ANCHOR BOLT ASSEMBLY
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24	ANCHOR BOLT ASSEMBLY
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26	ANCHOR PLATE
27	ANCHOR BOLT ASSEMBLY
28	ANCHOR BOLT
29	ANCHOR PLATE
30	ANCHOR BOLT ASSEMBLY
31	ANCHOR BOLT
32	ANCHOR PLATE
33	ANCHOR BOLT ASSEMBLY
34	ANCHOR BOLT
35	ANCHOR PLATE
36	ANCHOR BOLT ASSEMBLY
37	ANCHOR BOLT
38	ANCHOR PLATE
39	ANCHOR BOLT ASSEMBLY
40	ANCHOR BOLT
41	ANCHOR PLATE
42	ANCHOR BOLT ASSEMBLY
43	ANCHOR BOLT
44	ANCHOR PLATE
45	ANCHOR BOLT ASSEMBLY
46	ANCHOR BOLT
47	ANCHOR PLATE
48	ANCHOR BOLT ASSEMBLY
49	ANCHOR BOLT
50	ANCHOR PLATE

Table 5: Bridge Materials

ITEM	DESCRIPTION
1	CONCRETE
2	STEEL
3	WELD
4	ANCHOR BOLTS
5	ANCHOR PLATE
6	ANCHOR BOLT ASSEMBLY
7	ANCHOR BOLT
8	ANCHOR PLATE
9	ANCHOR BOLT ASSEMBLY
10	ANCHOR BOLT
11	ANCHOR PLATE
12	ANCHOR BOLT ASSEMBLY
13	ANCHOR BOLT
14	ANCHOR PLATE
15	ANCHOR BOLT ASSEMBLY
16	ANCHOR BOLT
17	ANCHOR PLATE
18	ANCHOR BOLT ASSEMBLY
19	ANCHOR BOLT
20	ANCHOR PLATE
21	ANCHOR BOLT ASSEMBLY
22	ANCHOR BOLT
23	ANCHOR PLATE
24	ANCHOR BOLT ASSEMBLY
25	ANCHOR BOLT
26	ANCHOR PLATE
27	ANCHOR BOLT ASSEMBLY
28	ANCHOR BOLT
29	ANCHOR PLATE
30	ANCHOR BOLT ASSEMBLY
31	ANCHOR BOLT
32	ANCHOR PLATE
33	ANCHOR BOLT ASSEMBLY
34	ANCHOR BOLT
35	ANCHOR PLATE
36	ANCHOR BOLT ASSEMBLY
37	ANCHOR BOLT
38	ANCHOR PLATE
39	ANCHOR BOLT ASSEMBLY
40	ANCHOR BOLT
41	ANCHOR PLATE
42	ANCHOR BOLT ASSEMBLY
43	ANCHOR BOLT
44	ANCHOR PLATE
45	ANCHOR BOLT ASSEMBLY
46	ANCHOR BOLT
47	ANCHOR PLATE
48	ANCHOR BOLT ASSEMBLY
49	ANCHOR BOLT
50	ANCHOR PLATE

Table 6: Bridge Notes

ITEM	DESCRIPTION
1	CONCRETE
2	STEEL
3	WELD
4	ANCHOR BOLTS
5	ANCHOR PLATE
6	ANCHOR BOLT ASSEMBLY
7	ANCHOR BOLT
8	ANCHOR PLATE
9	ANCHOR BOLT ASSEMBLY
10	ANCHOR BOLT
11	ANCHOR PLATE
12	ANCHOR BOLT ASSEMBLY
13	ANCHOR BOLT
14	ANCHOR PLATE
15	ANCHOR BOLT ASSEMBLY
16	ANCHOR BOLT
17	ANCHOR PLATE
18	ANCHOR BOLT ASSEMBLY
19	

[illegible][illegible][illegible][illegible]

Architectural drawing of the Congress Street Expressway at Paulina Street Bridge, showing various elevations and details.

Table 1: Project Information

ROAD ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 131	3-B-5	COOK	29	12

Table 2: Bridge Details

SECTION	SCALE	DESCRIPTION
EAST ELEVATION OF BRIDGE	SCALE 1/8"=1'-0"	WEST ELEVATION OPPOSITE HAND
ELEVATION OF PIER	SCALE 1/8"=1'-0"	
ELEVATION OF SOUTH ABUTMENT	SCALE 1/8"=1'-0"	
SECTION 1-1	SCALE 1/2"=1'-0"	
SECTION 2-2	SCALE 1/2"=1'-0"	
DETAIL 'A'	SCALE 1 1/2"=1'-0"	

Table 3: Bridge Specifications

ITEM	DESCRIPTION
1	CONCRETE
2	STEEL
3	WELD
4	ANCHOR BOLTS
5	ANCHOR PLATE
6	ANCHOR BOLT ASSEMBLY
7	ANCHOR BOLT
8	ANCHOR PLATE
9	ANCHOR BOLT ASSEMBLY
10	ANCHOR BOLT
11	ANCHOR PLATE
12	ANCHOR BOLT ASSEMBLY
13	ANCHOR BOLT
14	ANCHOR PLATE
15	ANCHOR BOLT ASSEMBLY
16	ANCHOR BOLT
17	ANCHOR PLATE
18	ANCHOR BOLT ASSEMBLY
19	ANCHOR BOLT
20	ANCHOR PLATE
21	ANCHOR BOLT ASSEMBLY
22	ANCHOR BOLT
23	ANCHOR PLATE
24	ANCHOR BOLT ASSEMBLY
25	ANCHOR BOLT
26	ANCHOR PLATE
27	ANCHOR BOLT ASSEMBLY
28	ANCHOR BOLT
29	ANCHOR PLATE
30	ANCHOR BOLT ASSEMBLY
31	ANCHOR BOLT
32	ANCHOR PLATE
33	ANCHOR BOLT ASSEMBLY
34	ANCHOR BOLT
35	ANCHOR PLATE
36	ANCHOR BOLT ASSEMBLY
37	ANCHOR BOLT
38	ANCHOR PLATE
39	ANCHOR BOLT ASSEMBLY
40	ANCHOR BOLT
41	ANCHOR PLATE
42	ANCHOR BOLT ASSEMBLY
43	ANCHOR BOLT
44	ANCHOR PLATE
45	ANCHOR BOLT ASSEMBLY
46	ANCHOR BOLT
47	ANCHOR PLATE
48	ANCHOR BOLT ASSEMBLY
49	ANCHOR BOLT
50	ANCHOR PLATE

Table 4: Bridge Dimensions

ITEM	DESCRIPTION	VALUE
1	70' ROADWAY	70'
2	1/4 OF BRIDGE	1/4
3	SMOOTH CURVED SURFACE	
4	V-GROOVE SEE DETAIL	
5	SMOOTH CONC. SURFACE	
6	FINISH GRADE	
7	EL. -10.0'	-10.0'
8	EL. -10.0'	-10.0'
9	EL. -10.0'	-10.0'
10	EL. -10.0'	-10.0'
11	EL. -10.0'	-10.0'
12	EL. -10.0'	-10.0'
13	EL. -10.0'	-10.0'
14	EL. -10.0'	-10.0'
15	EL. -10.0'	-10.0'
16	EL. -10.0'	-10.0'
17	EL. -10.0'	-10.0'
18	EL. -10.0'	-10.0'
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23	EL. -10.0'	-10.0'
24	EL. -10.0'	-10.0'
25	EL. -10.0'	-10.0'
26	EL. -10.0'	-10.0'
27	EL. -10.0'	-10.0'
28	EL. -10.0'	-10.0'
29	EL. -10.0'	-10.0'
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32	EL. -10.0'	-10.0'
33	EL. -10.0'	-10.0'
34	EL. -10.0'	-10.0'
35	EL. -10.0'	-10.0'
36	EL. -10.0'	-10.0'
37	EL. -10.0'	-10.0'
38	EL. -10.0'	-10.0'
39	EL. -10.0'	-10.0'
40	EL. -10.0'	-10.0'
41	EL. -10.0'	-10.0'
42	EL. -10.0'	-10.0'
43	EL. -10.0'	-10.0'
44	EL. -10.0'	-10.0'
45	EL. -10.0'	-10.0'
46	EL. -10.0'	-10.0'
47	EL. -10.0'	-10.0'
48	EL. -10.0'	-10.0'
49	EL. -10.0'	-10.0'
50	EL. -10.0'	-10.0'

Table 5: Bridge Materials

ITEM	DESCRIPTION	VALUE
1	CONCRETE	
2	STEEL	
3	WELD	
4	ANCHOR BOLTS	
5	ANCHOR PLATE	
6	ANCHOR BOLT ASSEMBLY	
7	ANCHOR BOLT	
8	ANCHOR PLATE	
9	ANCHOR BOLT ASSEMBLY	
10	ANCHOR BOLT	
11	ANCHOR PLATE	
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28	ANCHOR BOLT	
29	ANCHOR PLATE	
30	ANCHOR BOLT ASSEMBLY	
31	ANCHOR BOLT	
32	ANCHOR PLATE	
33	ANCHOR BOLT ASSEMBLY	
34	ANCHOR BOLT	
35	ANCHOR PLATE	
36	ANCHOR BOLT ASSEMBLY	
37	ANCHOR BOLT	
38	ANCHOR PLATE	

Architectural drawing of the Congress Street Expressway at Paulina Street Bridge, showing various elevations and details.

Table 1: Project Information

ROAD ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 131	3-B-5	COOK	29	12

Table 2: Bridge Details

SECTION	SCALE	DESCRIPTION
EAST ELEVATION OF BRIDGE	SCALE 1/8"=1'-0"	WEST ELEVATION OPPOSITE HAND
ELEVATION OF PIER	SCALE 1/8"=1'-0"	
ELEVATION OF SOUTH ABUTMENT	SCALE 1/8"=1'-0"	
SECTION 1-1	SCALE 1/2"=1'-0"	
SECTION 2-2	SCALE 1/2"=1'-0"	
DETAIL 'A'	SCALE 1 1/2"=1'-0"	

Table 3: Bridge Specifications

ITEM	DESCRIPTION
1	CONCRETE
2	STEEL
3	WELD
4	ANCHOR BOLTS
5	ANCHOR PLATE
6	ANCHOR BOLT ASSEMBLY
7	ANCHOR BOLT
8	ANCHOR PLATE
9	ANCHOR BOLT ASSEMBLY
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25	ANCHOR BOLT
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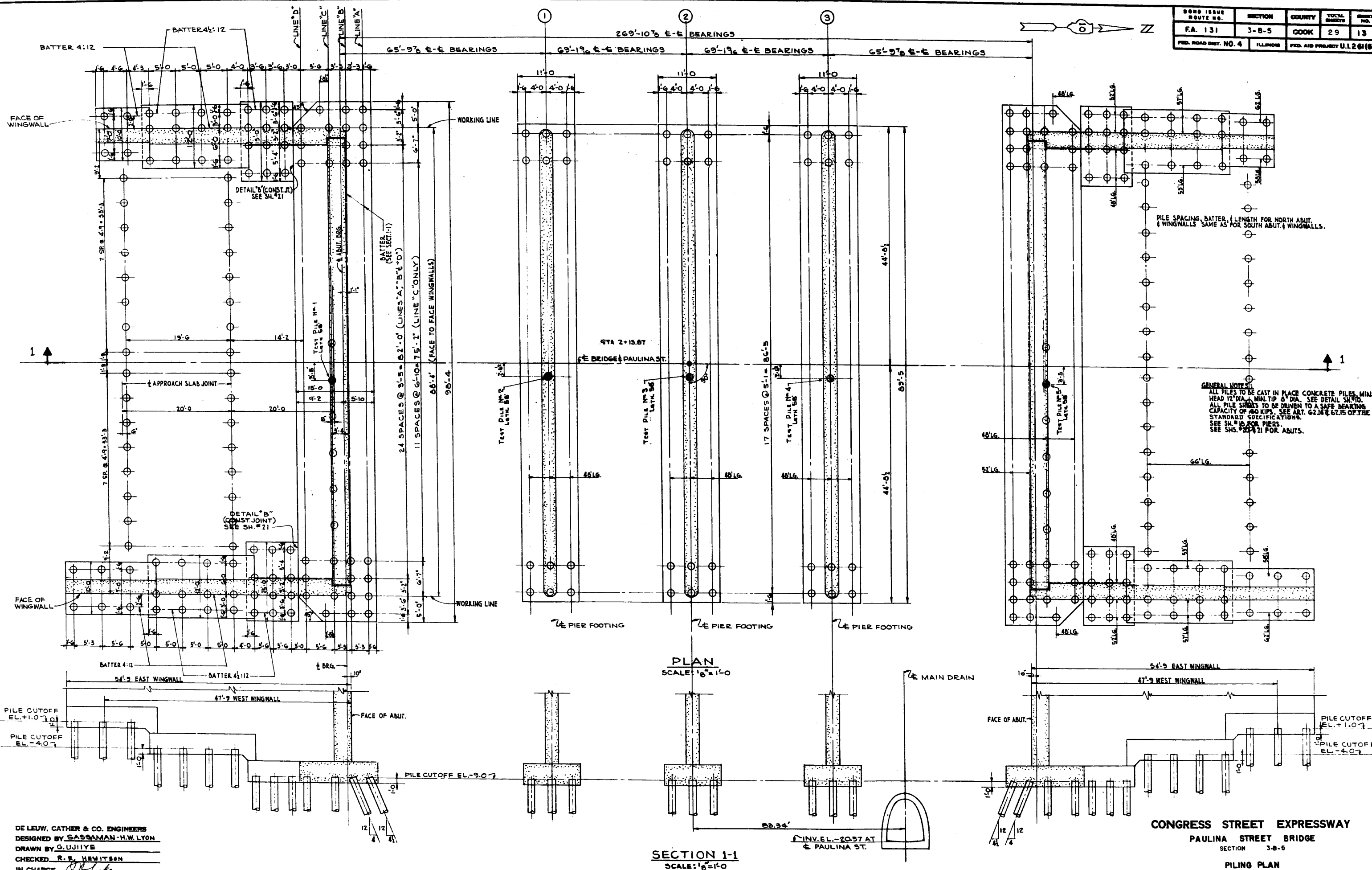
Table 4: Bridge Dimensions

ITEM	DESCRIPTION	VALUE
1	70' ROADWAY	70'
2	1/4 OF BRIDGE	1/4
3	SMOOTH CURVED SURFACE	
4	V-GROOVE SEE DETAIL	
5	SMOOTH CONC. SURFACE	
6	FINISH GRADE	
7	EL. -10.0'	-10.0'
8	EL. -10.0'	-10.0'
9	EL. -10.0'	-10.0'
10	EL. -10.0'	-10.0'
11	EL. -10.0'	-10.0'
12	EL. -10.0'	-10.0'
13	EL. -10.0'	-10.0'
14	EL. -10.0'	-10.0'
15	EL. -10.0'	-10.0'
16	EL. -10.0'	-10.0'
17	EL. -10.0'	-10.0'
18	EL. -10.0'	-10.0'
19	EL. -10.0'	-10.0'
20	EL. -10.0'	-10.0'
21	EL. -10.0'	-10.0'
22	EL. -10.0'	-10.0'
23	EL. -10.0'	-10.0'
24	EL. -10.0'	-10.0'
25	EL. -10.0'	-10.0'
26	EL. -10.0'	-10.0'
27	EL. -10.0'	-10.0'
28	EL. -10.0'	-10.0'
29	EL. -10.0'	-10.0'
30	EL. -10.0'	-10.0'
31	EL. -10.0'	-10.0'
32	EL. -10.0'	-10.0'
33	EL. -10.0'	-10.0'
34	EL. -10.0'	-10.0'
35	EL. -10.0'	-10.0'
36	EL. -10.0'	-10.0'
37	EL. -10.0'	-10.0'
38	EL. -10.0'	-10.0'
39	EL. -10.0'	-10.0'
40	EL. -10.0'	-10.0'
41	EL. -10.0'	-10.0'
42	EL. -10.0'	-10.0'
43	EL. -10.0'	-10.0'
44	EL. -10.0'	-10.0'
45	EL. -10.0'	-10.0'
46	EL. -10.0'	-10.0'
47	EL. -10.0'	-10.0'
48	EL. -10.0'	-10.0'
49	EL. -10.0'	-10.0'
50	EL. -10.0'	-10.0'

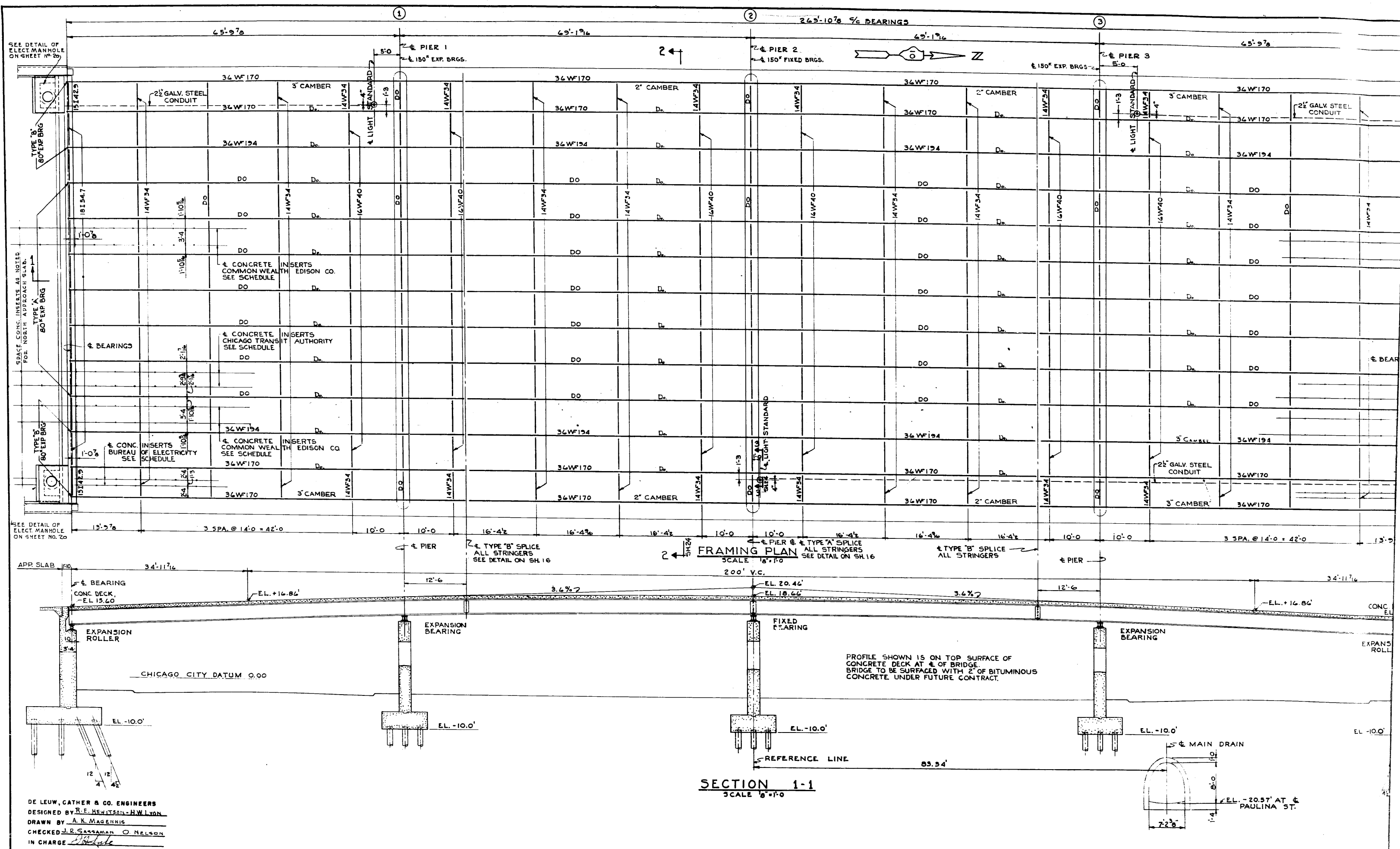
Table 5: Bridge Materials

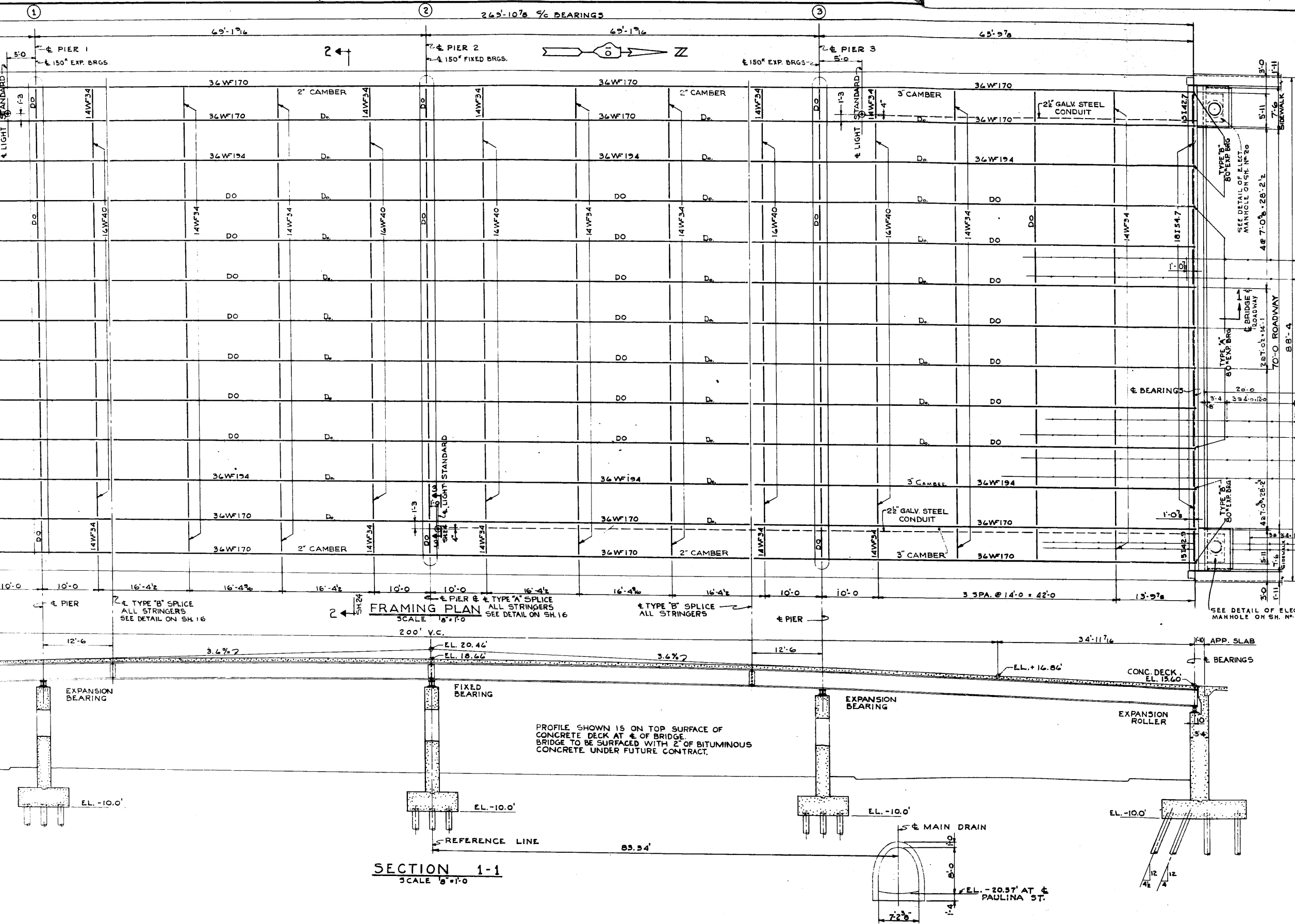
ITEM	DESCRIPTION	VALUE
1	CONCRETE	
2	STEEL	
3	WELD	
4	ANCHOR BOLTS	
5	ANCHOR PLATE	
6	ANCHOR BOLT ASSEMBLY	
7	ANCHOR BOLT	
8	ANCHOR PLATE	
9	ANCHOR BOLT ASSEMBLY	
10	ANCHOR BOLT	
11	ANCHOR PLATE	
12	ANCHOR BOLT ASSEMBLY	
13	ANCHOR BOLT	
14	ANCHOR PLATE	
15	ANCHOR BOLT ASSEMBLY	
16	ANCHOR BOLT	
17	ANCHOR PLATE	
18	ANCHOR BOLT ASSEMBLY	
19	ANCHOR BOLT	
20	ANCHOR PLATE	
21	ANCHOR BOLT ASSEMBLY	
22	ANCHOR BOLT	
23	ANCHOR PLATE	
24	ANCHOR BOLT ASSEMBLY	
25	ANCHOR BOLT	
26	ANCHOR PLATE	
27	ANCHOR BOLT ASSEMBLY	
28	ANCHOR BOLT	
29	ANCHOR PLATE	
30	ANCHOR BOLT ASSEMBLY	
31	ANCHOR BOLT	
32	ANCHOR PLATE	
33	ANCHOR BOLT ASSEMBLY	
34	ANCHOR BOLT	
35	ANCHOR PLATE	
36	ANCHOR BOLT ASSEMBLY	
37	ANCHOR BOLT	
38	ANCHOR PLATE	

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-5	COOK	29	13
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(68)		



DE LEUW, CATHAR & CO. ENGINEERS
 DESIGNED BY SASSAMAN-H.W. LYON
 DRAWN BY G. UJIYE
 CHECKED R. E. HEMITSON
 IN CHARGE *[Signature]*





ROAD ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. 131	3-B-5 3-F-5	COOK	29	14
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I. 261(68)		

BRIDGE DECK NOTES

SEE THIS SHEET FOR PROFILE OF ROADWAY AND SH. #24 FOR SECTION 2-2' CROSS-SECTION OF BRIDGE DECK, ALSO 'DECK CONSTITUENTS' AND DEAD LOAD DEFLECTION FOR CONCRETE ON SH. #25.

THE CONCRETE SURFACE OF CURB AND WALK IS INTENDED TO CONFORM TO THE ROADWAY PROFILE AND CROSS-SECTIONS. FORMS AND SCREEDS SHOULD BE SET ABOVE THE THEORETICAL ELEVATIONS BY THE AMOUNT SHOWN ON THE DIAGRAM 'DEAD LOAD DEFLECTION FOR CONCRETE'. THE CONCRETE DECK OF THE ROADWAY SHOULD BE POURED TO THE THICKNESS SHOWN.
THE STRINGERS HAVE BEEN CAMBERED TO PROVIDE FOR VERTICAL CURVE OF THE ROADWAY PLUS DEAD LOAD DEFLECTION.
SEE SHEET NO. 16 FOR CAMBER DIAGRAM.

TOTAL ESTIMATED WEIGHT OF DECK STRUCTURAL STEEL INCLUDING SPLICES & DIAPHRAGMS = 807,698 LBS.

SEE SH. #24 FOR DETAIL OF CONDUIT HANGERS, INSERTS, ETC.
SEE SH. #8 FOR DETAIL OF CONSTRUCTION UNDER APPROACH SLAB.

CONCRETE INSERT SPACING SCHEDULE

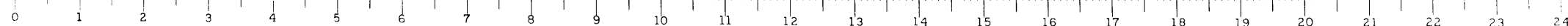
BUREAU OF ELECTRICITY
COMMON WEALTH EDISON CO.
CHICAGO TRANSIT AUTHORITY

SPACING FROM S. ABUT	SPACING FROM PIER #2
FROM # BRG = 1'-0"	FROM # BRG = 1'-0"
3 @ 3'-11" = 11'-9"	2 @ 4'-0" = 8'-0"
TO DIAFRAM = 1'-0"	TO DIAFRAM = 1'-0"
FROM " = 3'-0"	FROM " = 3'-0"
2 @ 4'-0" = 8'-0"	3 @ 4'-0" = 12'-0"
TO DIAF = 3'-0"	TO DIAF = 1'-4 1/2"
FROM " = 1'-0"	FROM " = 2'-9 3/4"
3 @ 4'-0" = 12'-0"	3 @ 4'-1" = 12'-3"
TO DIAF = 1'-0"	TO DIAF = 1'-4"
FROM " = 3'-0"	FROM " = 2'-9"
2 @ 4'-0" = 8'-0"	3 @ 4'-2" = 12'-6"
TO DIAF = 3'-0"	TO DIAF = 1'-1 1/2"
FROM " = 1'-0"	FROM " = 3'-0"
2 @ 4'-0" = 8'-0"	1 @ 4'-0" = 4'-0"
TO # BRG PIER #1 = 1'-0"	TO # BRG PIER #3 = 3'-0"
TOTAL = 65'-9 3/4"	TOTAL = 65'-9 3/4"
FROM # BRG PIER #1 = 3'-0"	FROM # BRG PIER #3 = 1'-0"
1 @ 4'-0" = 4'-0"	2 @ 4'-0" = 8'-0"
TO DIAF = 3'-0"	TO DIAF = 1'-0"
FROM " = 1'-1 1/2"	FROM " = 3'-0"
3 @ 4'-2" = 12'-6"	2 @ 4'-0" = 8'-0"
TO DIAF = 2'-9"	TO DIAF = 3'-0"
FROM " = 1'-4"	FROM " = 1'-0"
3 @ 4'-1" = 12'-3"	3 @ 4'-0" = 12'-0"
TO DIAF = 2'-9 3/4"	TO DIAF = 1'-0"
FROM " = 1'-4 1/2"	FROM " = 3'-0"
3 @ 4'-0" = 12'-0"	2 @ 4'-0" = 8'-0"
TO DIAF = 3'-0"	TO DIAF = 3'-0"
FROM " = 1'-0"	FROM " = 1'-0"
2 @ 4'-0" = 8'-0"	3 @ 3'-11" = 11'-9"
TO # BRG PIER #2 = 1'-0"	TO # BRG S. ABUT = 1'-0"
TOTAL = 65'-9 3/4"	TOTAL = 65'-9 3/4"

SEE SHEET NO. 15 FOR GENERAL NOTES FOR STRUCTURAL STEEL

CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5 3-F-5
DECK FRAMING PLAN

SCALE: AS NOTED



BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. 131	3-B-5 3-F-5	COOK	29	15
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.1261(66)		

GENERAL NOTES

STRUCTURAL STEEL - RIVETING, WELDING, PAINTING

DESIGN SPECS. -

AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 5TH EDITION, DATED 1949, AND THE AMERICAN WELDING SOCIETY STANDARD SPECIFICATION FOR WELDED HIGHWAY AND RAILWAY BRIDGES. SEE ALSO SPECIAL PROVISIONS.

CONSTRUCTION SPECS. -

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS, 1952.

ALL STRUCTURAL STEEL TO CONFORM TO THE SPECIFICATIONS FOR STEEL FOR BRIDGES AND BUILDINGS, A.S.T.M. DESIGNATION A7 EXCEPT WHERE NOTED OTHERWISE. $f_s = 18000$ P.S.I.

RIVETS TO BE $\frac{7}{8}$ " AND HOLES $1\frac{1}{8}$ " EXCEPT AS NOTED.

ALL RIVET HOLES IN BEAM SPLICES TO BE SUB-PUNCHED $\frac{1}{16}$ " AND REAMED TO SIZE OR DRILLED IN PLACE.

BEAMS TO BE ERECTED FULL-LENGTH IN SHOP BEFORE REAMING AND INSPECTION.

STRUCTURAL STEEL AND HANDRAILS SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT. PARTS INACCESSIBLE AFTER ERECTION SHALL HAVE TWO SHOP COATS OF RED LEAD PAINT. FOR FIELD PAINT SEE SPECIAL PROVISIONS.

SHOP INSPECTION BY ILLINOIS DIVISION OF HIGHWAYS.

BEARING AND SPLICE NOTES

STEEL FOR EXPANSION ROLLERS, BEARINGS AND SPLICES SHALL CONFORM TO THE REQUIREMENTS OF ART. 124.3 AND 124.5 (d) OF THE STANDARD SPECIFICATIONS WHERE APPLICABLE.

ALL ROLLERS, ROCKERS AND BEARING PLATES SHALL BE FINISHED IN ACCORDANCE WITH ART. 35.4 (m) OF THE STANDARD SPECIFICATIONS AND WITH ANCHOR BOLTS TO BE SET IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THESE ITEMS ARE INCLUDED FOR PAYMENT AS STRUCTURAL STEEL.

THICKNESS OF SOLE PLATES IS GIVEN AT THE CENTERLINE OF BEARING. SOLE PLATES TO BE PLANNED TO COMPENSATE FOR SLOPE OF STRINGER AND STRINGER FLANGE VARIATION FROM NORMAL.

SEE FRAMING PLAN SH.14 FOR BEARING LOCATIONS.

FINISHED SURFACES OF BEARINGS AND ROLLERS TO BE SHOP COATED WITH WHITE LEAD AND TALLOW, OTHER SURFACES TO BE PAINTED.

SPLICE PLATES TO BE MATCH MARKED FOR SHIPMENT.

EXPANSION JOINT NOTES

SEE GENERAL NOTES FOR STRUCTURAL STEEL THIS SH.

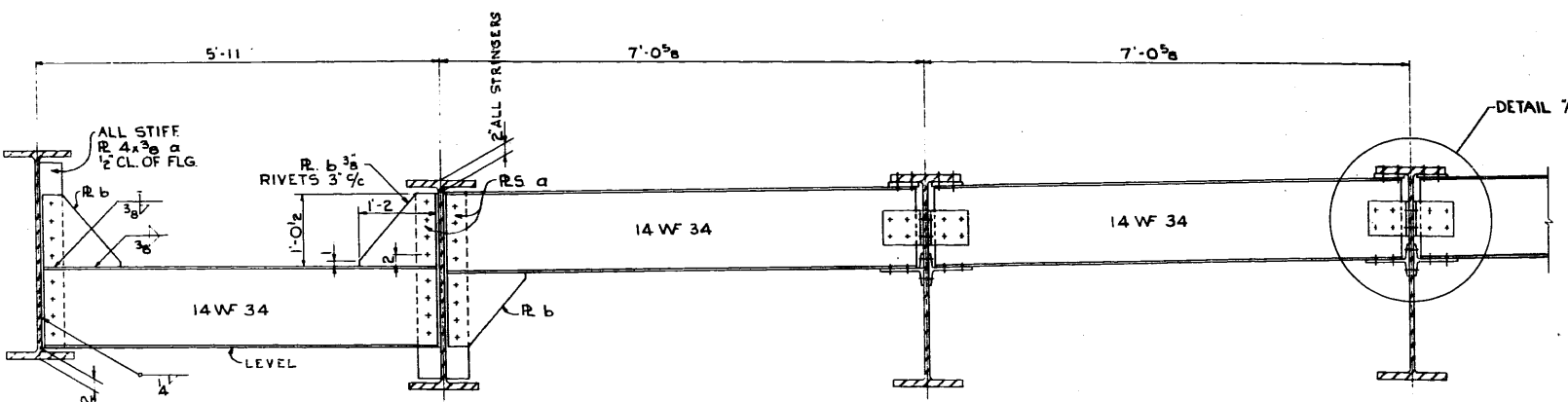
EXPANSION JOINT ASSEMBLY SHALL BE FABRICATED AND ERECTED TO CONFORM TO THE ROADWAY CROWN AND SLOPE OF GRADE AT THE JOINT. IT SHALL BE ASSEMBLED IN THE SHOP FOR INSPECTION. COPPER BEARING STEEL CONFORMING TO ASTM-A7 WITH 2% COPPER ADDED SHALL BE USED FOR ALL EXPOSED PARTS.

ALL PARTS OF JOINT ASSEMBLY INCLUDING BRACKETS, STRAP ANCHORS AND ANCHOR BOLTS SHALL BE INCLUDED IN STRUCTURAL STEEL FOR PAYMENT.

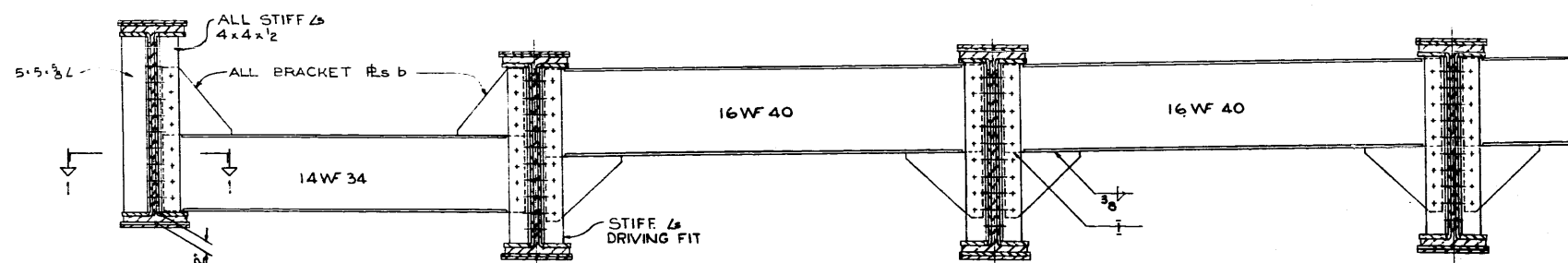
JOINT SETTING INSTRUCTIONS

ALL DIMENSIONS MARKED 'N' SHOWN ON JOINT DETAILS ARE COMPUTED FOR THE SPACE AT THAT POINT BASED ON AN ASSUMED TEMPERATURE OF 60°F. THE DIMENSION 'N' ALSO INCLUDES A ONE INCH ALLOWANCE FOR POSSIBLE FORWARD MOVEMENT AT THE TOP OF THE ABUTMENT DUE TO EARTH PRESSURE, THRUST OF APPROACH SLAB ETC. DIMENSION 'N' WILL INCREASE OR DECREASE APPROXIMATELY ONE EIGHT INCH FOR EACH 10° DROP OR RISE IN TEMPERATURE, RESPECTIVELY, FROM THE MEAN 60°. AT TIME CONCRETE ANCHORING JOINT ON ABUTMENT IS POURED, DIMENSION NOTED 'N'X SHOULD BE ADJUSTED FOR TEMPERATURE AS INDICATED IN THE SCHEDULE, NOT LATER THAN 8 HOURS AFTER CONCRETE HAS BEEN POURED JOINT CONNECTION BOLTS SHOULD BE REMOVED.

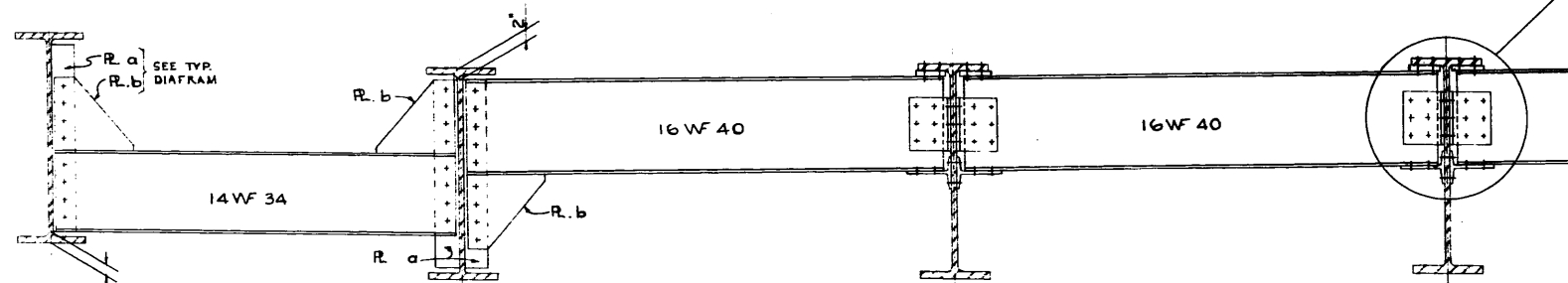
WEIGHT OF DIAFRAMS INCLUDED IN DECK STRUCTURAL STEEL.



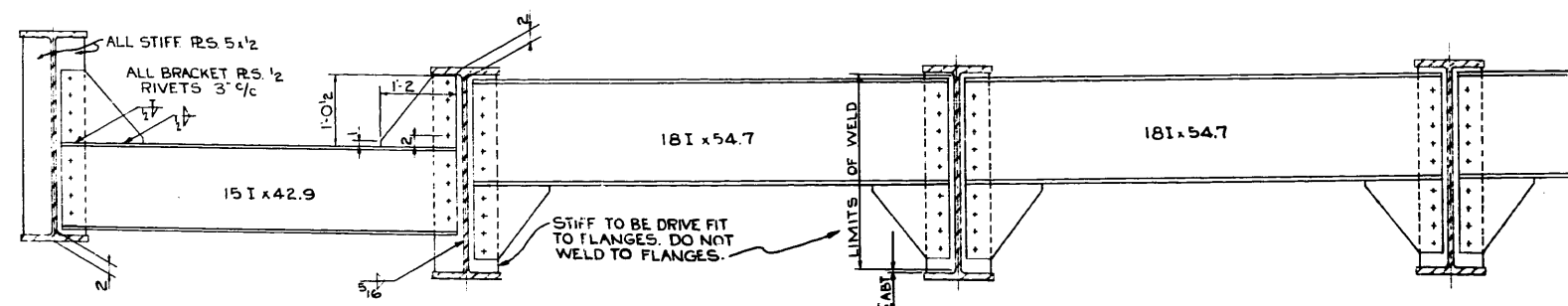
TYPICAL DIAFRAM
SCALE $\frac{3}{4}$ "=1'-0"



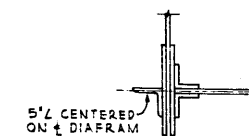
DIAFRAM AT PIER 2
SCALE $\frac{3}{4}$ "=1'-0"



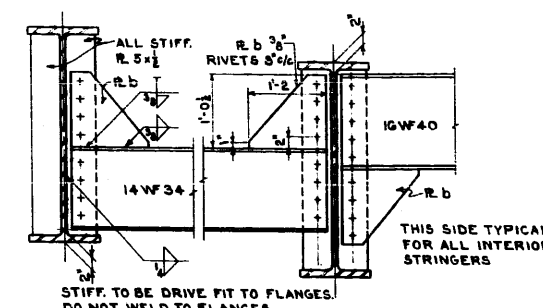
DIAFRAM AT DECK CONST JOINT
SCALE $\frac{3}{4}$ "=1'-0"



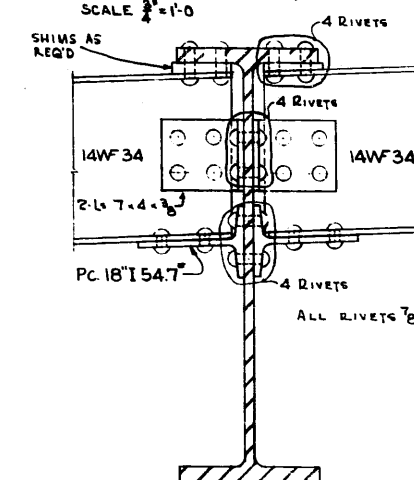
DIAFRAM AT ABUTMENT
SCALE $\frac{3}{4}$ "=1'-0"



SECTION 1-1
SCALE $\frac{3}{4}$ "=1'-0"



DIAFRAM AT PIERS 1 & 3
SCALE $\frac{3}{4}$ "=1'-0"



DETAIL "A"
DETAIL "B" SIMILAR
SCALE $\frac{1}{2}$ "=1'-0"

DE LEUW, CATHAR & CO. ENGINEERS
DESIGNED BY *S. Greenberg*
DRAWN BY *J. R. SASSMAN*
CHECKED *O. NELSON, W. KUTAY*
IN CHARGE *W. KUTAY*

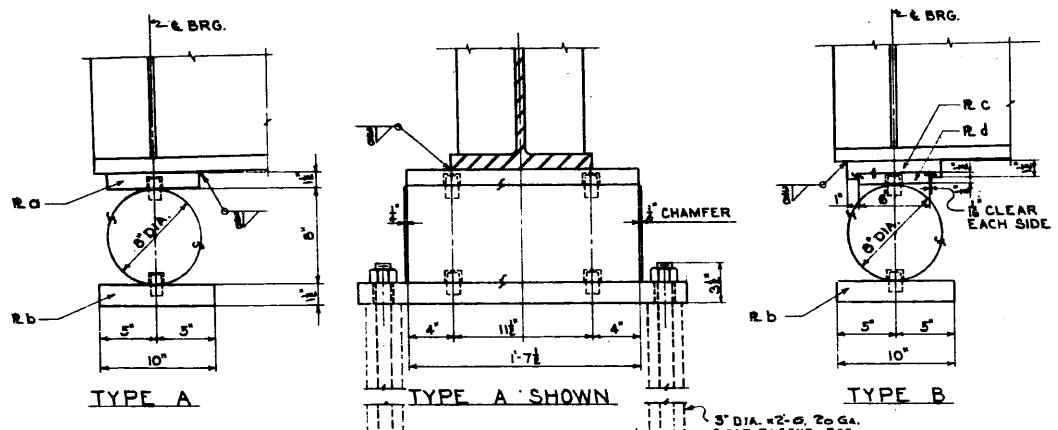
CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE

SECTIONS 3-B-5 3-F-5

DIAFRAM CONNECTIONS & DETAILS

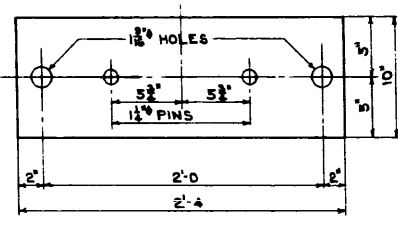
SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-5 3-F-5	COOK	29	16
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(68)		

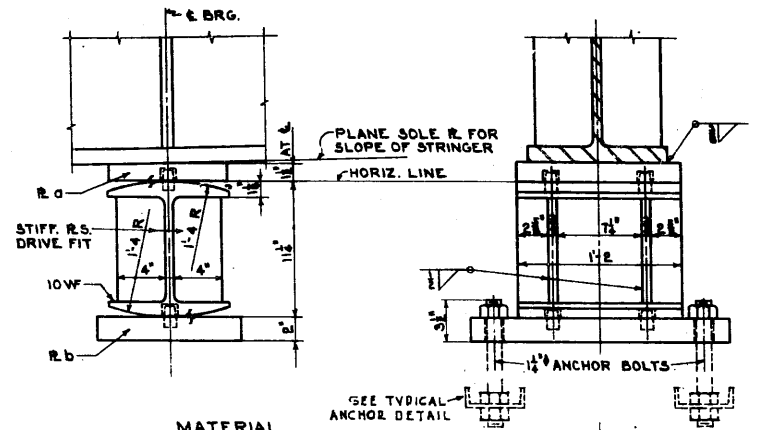


MATERIAL-TYPE A
 R.C. - 8 x 1 1/2 x 1 7/8
 R.B. - 10 x 1 1/2 x 2 1/4
 ROLLER - 8" x 1 1/8
 PINS - 1/2" x 1 1/2
 2 ANCHOR BOLTS - 1/2" x 2-6
 4" THREAD BOTH ENDS
 ANCHOR 5-6.7

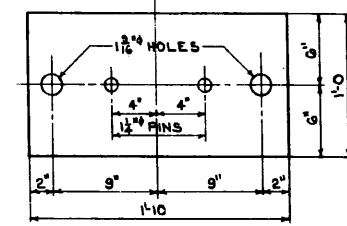
MATERIAL-TYPE B
 R.C. - 10 x 1 1/2 x 2 1/4
 R.B. - 12 x 1 1/2 x 2 1/4
 R.C. - 8 x 1 1/2 x 1 7/8
 R.D. - 6 x 1 1/2 x 1 7/8
 ROLLER - 8" x 1 1/8
 PINS - 1/2" x 1 1/2
 2 ANCHOR BOLTS - 1/2" x 2-6
 4" THREAD BOTH ENDS
 ANCHOR 5-6.7



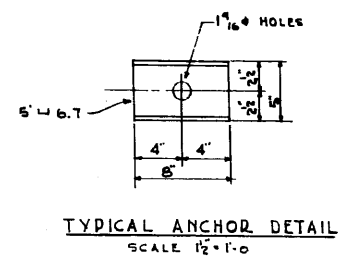
80° EXPANSION BEARING
 SCALE 1/2"=1'-0"



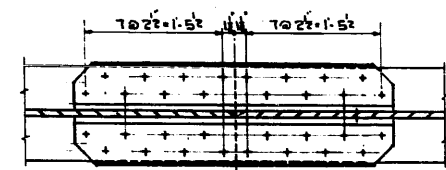
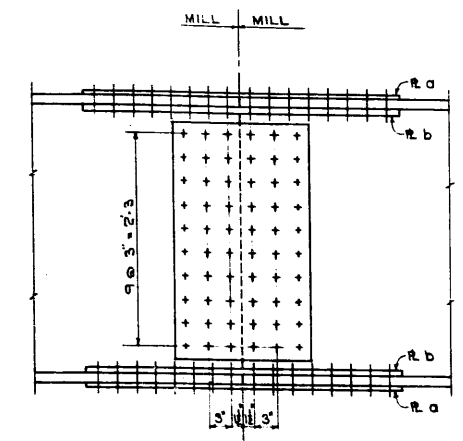
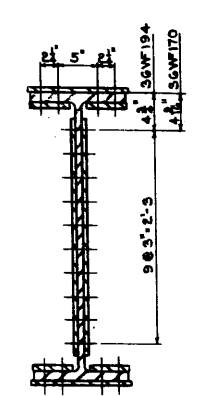
MATERIAL
 R.C. - 10 x 1 1/2 x 2 1/4
 R.B. - 12 x 1 1/2 x 2 1/4
 H SEC. 10W 112
 STIFF RS - 4 x 1/2
 PINS - 1/2" x 1 1/2
 2 ANCHOR BOLTS - 1/2" x 2-6
 4" THREAD BOTH ENDS
 ANCHOR 5-6.7



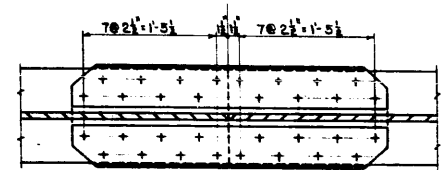
150° EXPANSION BEARING
 SCALE 1/2"=1'-0"



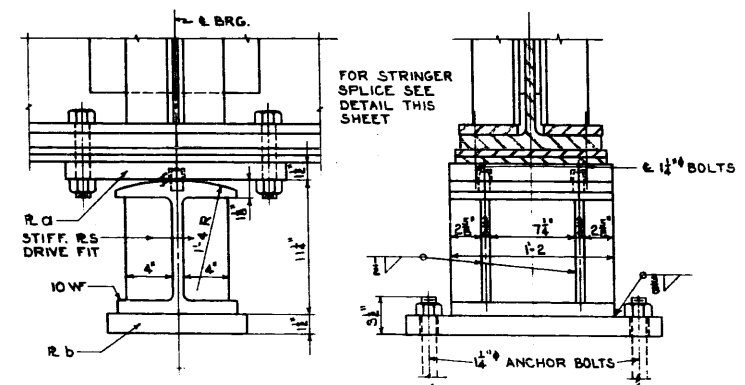
TYPICAL ANCHOR DETAIL
 SCALE 1/2"=1'-0"



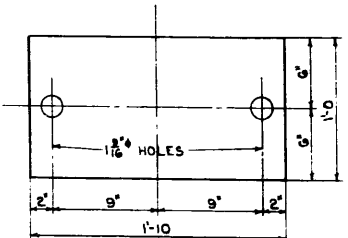
MATERIAL - 36WF170
 FLANGE R.C. - 13 x 1/2 x 3-5
 R.B. - 5 x 1/2 x 3-5
 WEB R.C. - 18 x 1/2 x 2-6
 1/2" RIVETS



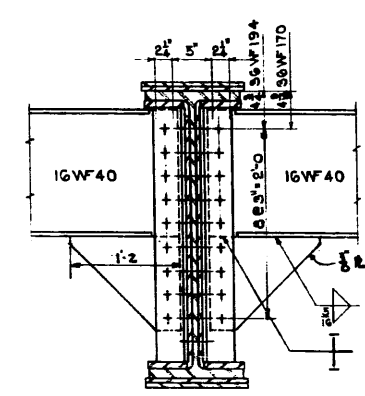
MATERIAL - 36WF194
 FLANGE R.C. - 13 x 1/2 x 3-5
 R.B. - 5 x 1/2 x 3-5
 WEB R.C. - 18 x 1/2 x 2-6
 1/2" RIVETS



MATERIAL
 R.C. - 14 x 1 1/2 x 1 7/8
 R.B. - 12 x 1 1/2 x 1 10
 H SEC. 10W 112
 STIFF RS - 4 x 1/2
 PINS - 1/2" x 1 1/2
 4-1/2" BOLTS
 2 ANCHOR BOLTS 1/2" x 2-6
 4" THREAD BOTH ENDS
 ANCHOR 5-6.7

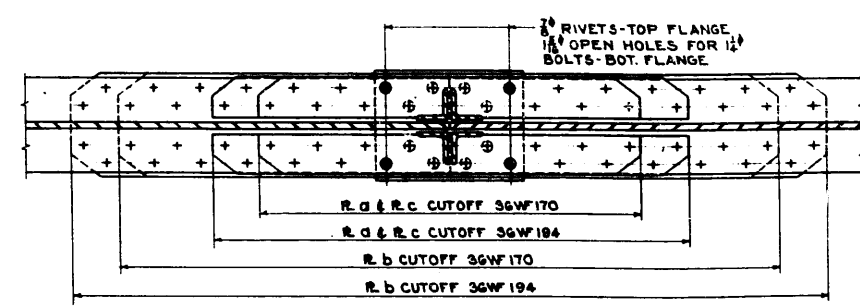
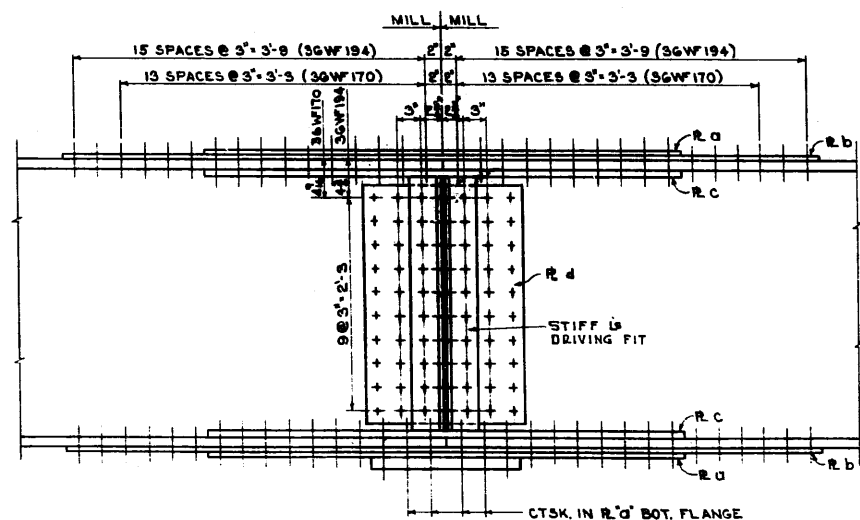


150° FIXED BEARING
 SCALE 1/2"=1'-0"



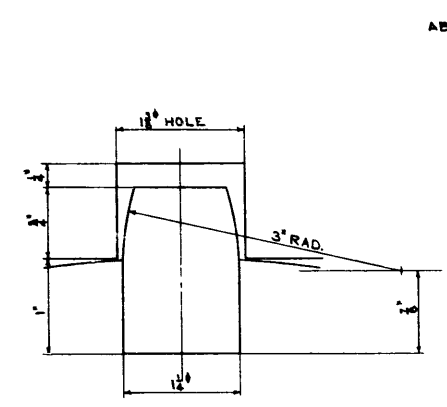
MATERIAL - 36WF194
 FLANGE R.C. - 13 x 1/2 x 3-5
 R.B. - 5 x 1/2 x 3-5
 WEB R.C. - 18 x 1/2 x 2-6
 1/2" RIVETS

MATERIAL - 36WF170
 FLANGE R.C. - 13 x 1/2 x 3-5
 R.B. - 5 x 1/2 x 3-5
 WEB R.C. - 18 x 1/2 x 2-6
 1/2" RIVETS

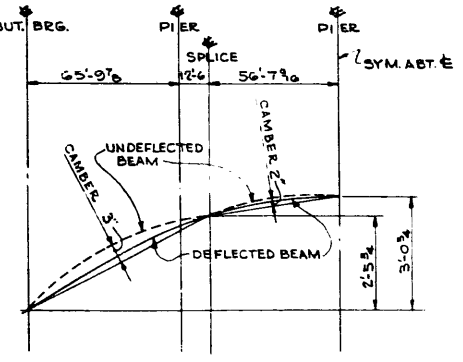


TYPE 'A' SPLICE
 SCALE: 1"=1'-0"

TYPE 'B' SPLICE
 SCALE 1"=1'-0"



DETAIL OF PINS
 FULL SIZE



CAMBER DIAGRAM

WEIGHT OF SPLICES INCLUDED IN DECK STRUCTURAL STEEL.
 TOTAL ESTIMATED WEIGHT OF BEARING INCLUDING ANCHOR BOLTS 31,489 LBS.

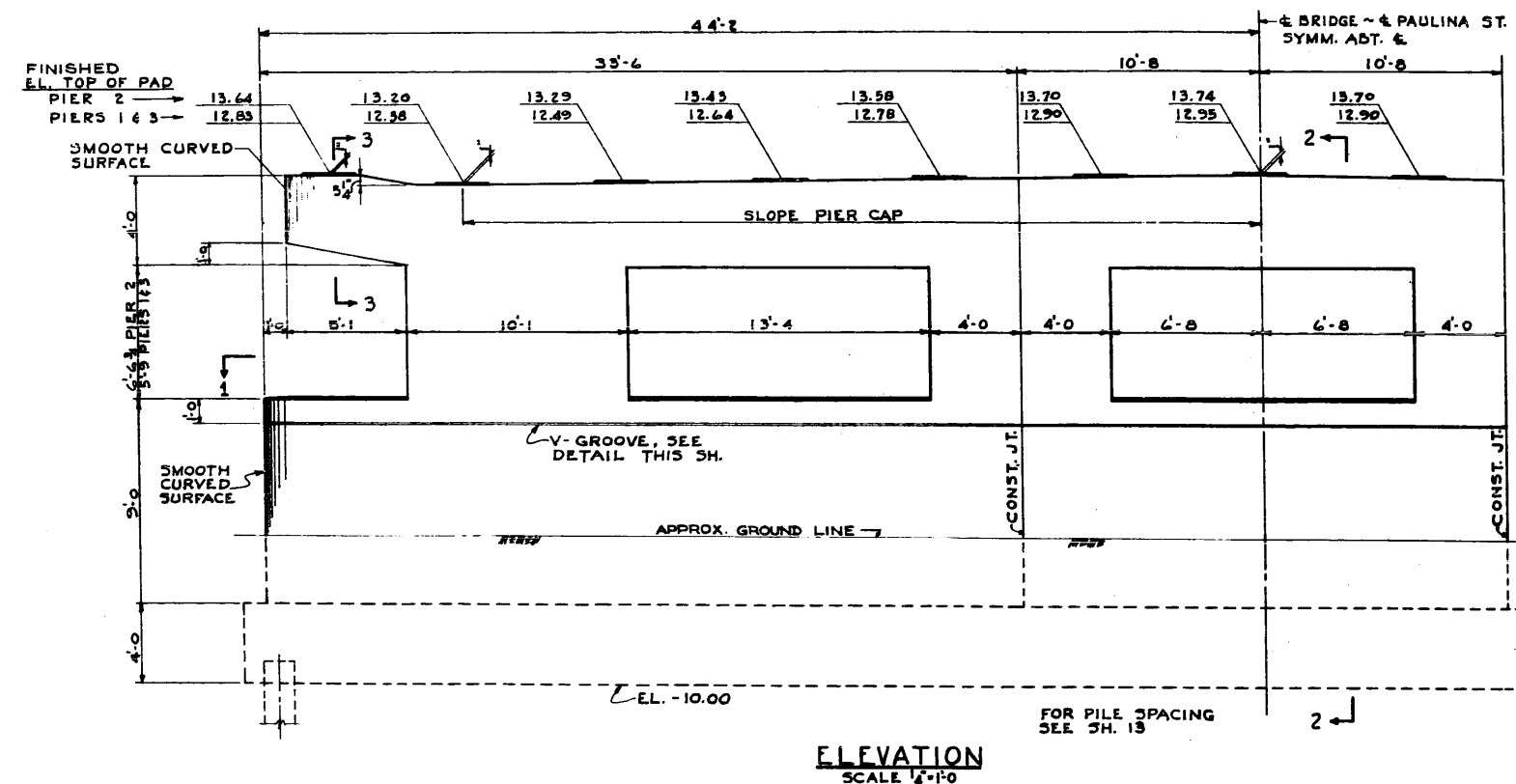
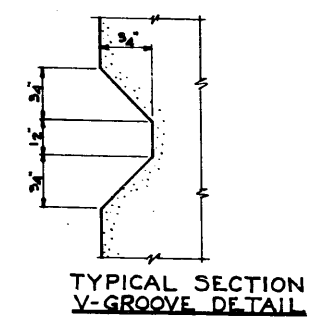
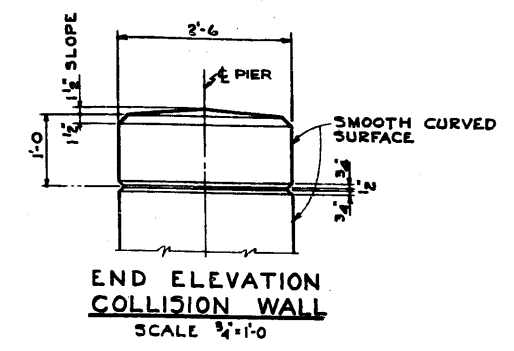
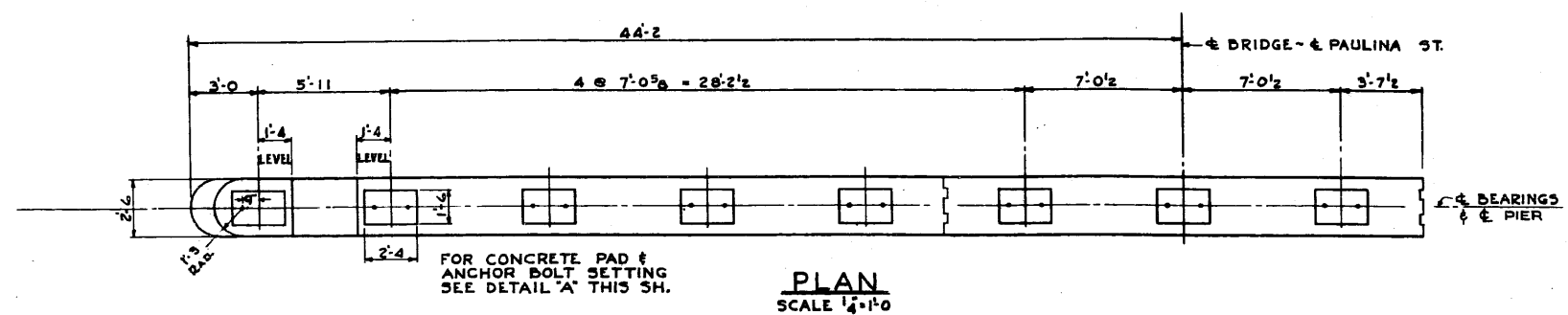
CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
 SECTION 3-B-5 3-F-5
BEARING & SPLICE DETAILS

DE LEUW, CATHY & CO. ENGINEERS
 DESIGNED BY H.W. LYON R.E. HENNINGSON
 DRAWN BY H.W. LYON
 CHECKED O. NELSON W.C. KUTAY
 IN CHARGE

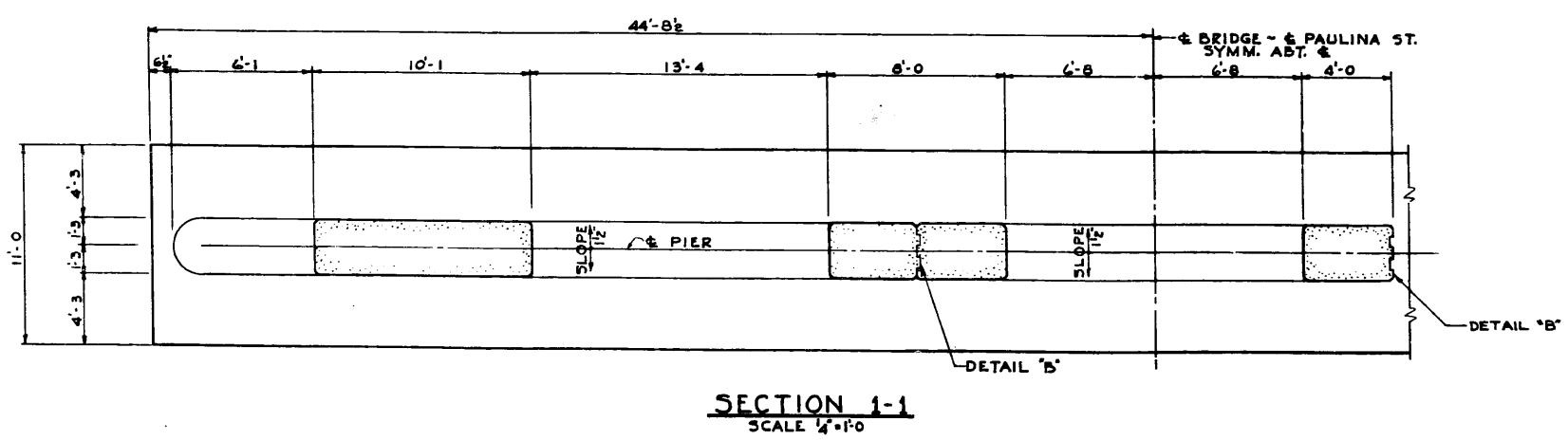
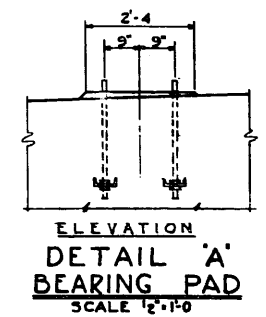
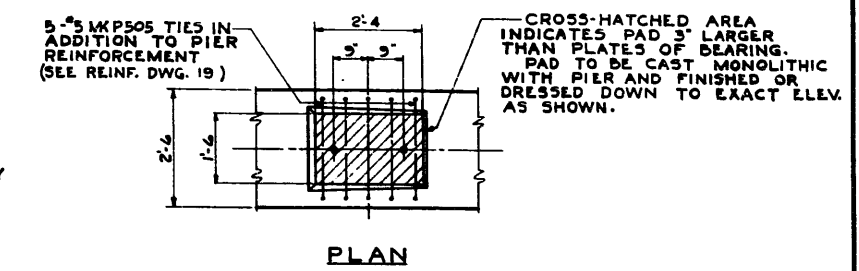
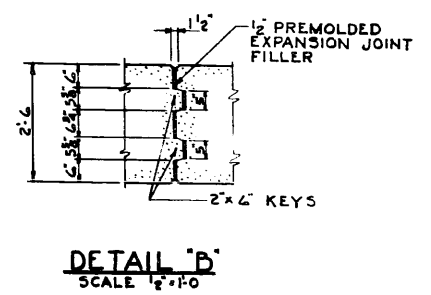
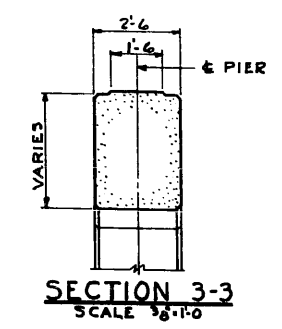
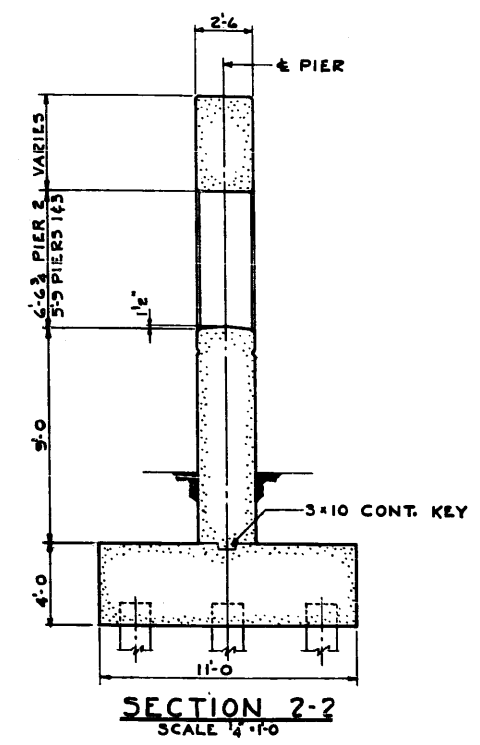
SEE SH. 15 FOR BEARING & SPLICE NOTES.

SCALE: AS NOTED

2000 ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-5	COOK	29	18
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I. 261(68)		



CHAMFER ALL CORNERS OF PIER CAP, COLUMNS AND PIER WALL 1/2" UNLESS OTHERWISE DETAILED.



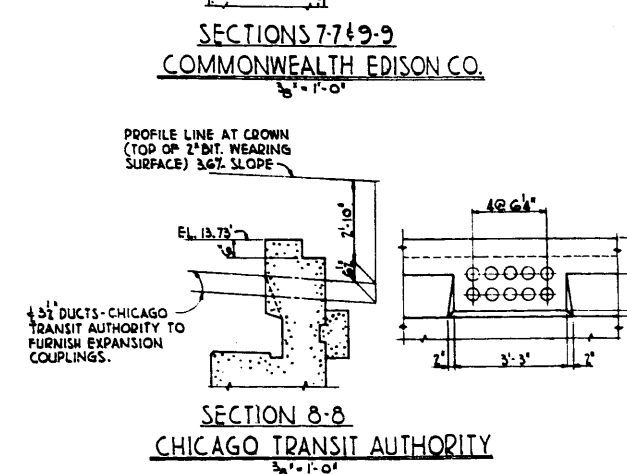
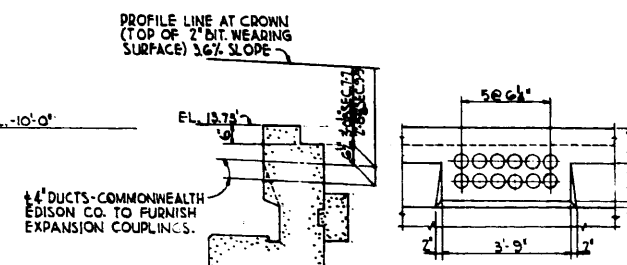
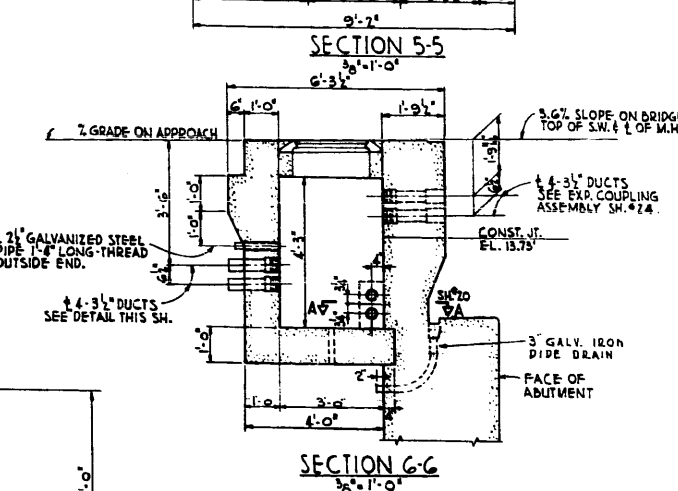
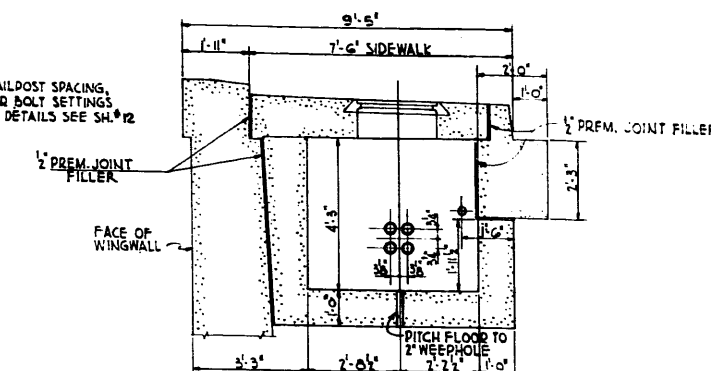
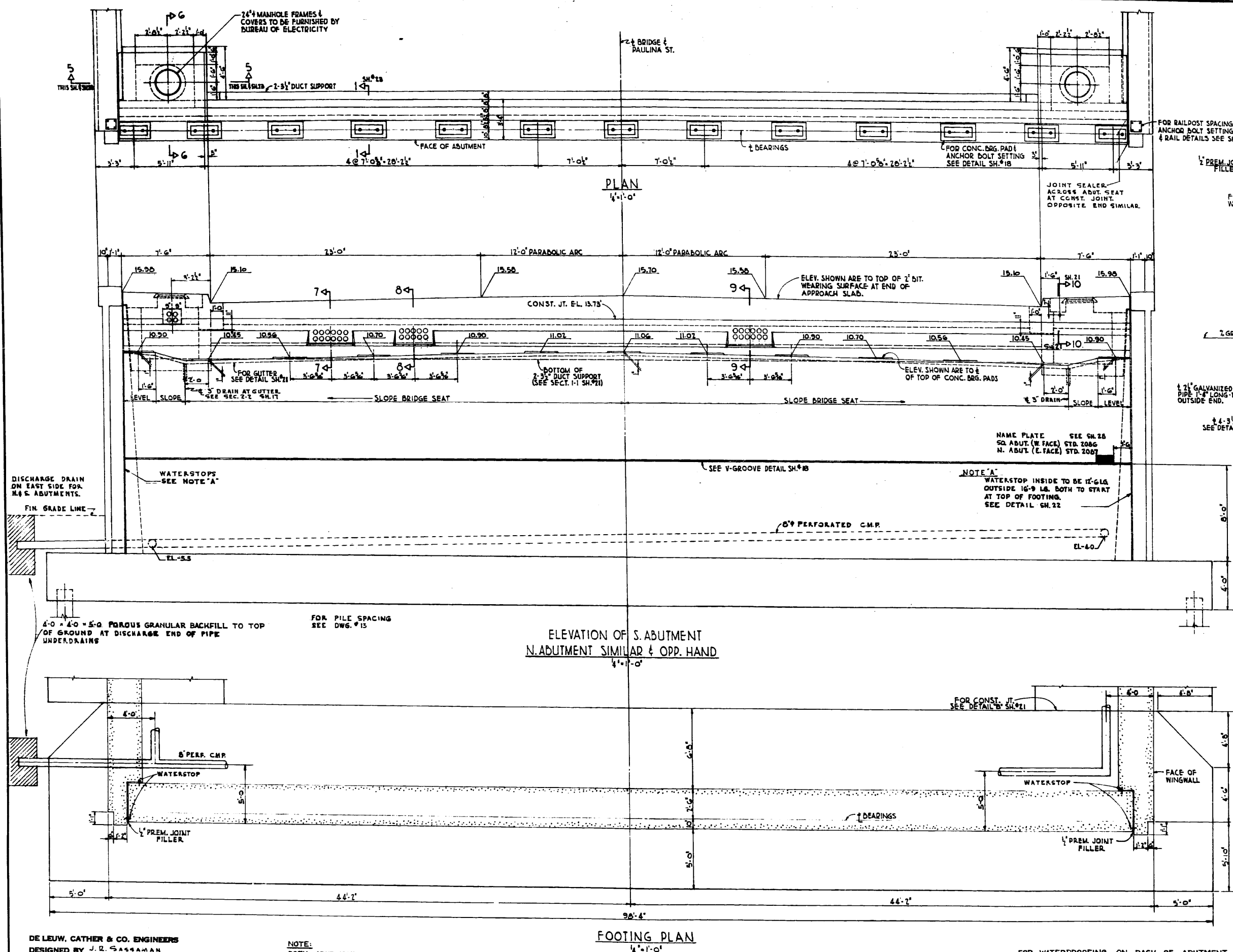
SEE SH. 19 FOR REINFORCEMENT.

DE LEUW, CATHY & CO. ENGINEERS
DESIGNED BY J.R. SASSAMAN
DRAWN BY A.K. MAGENNIS
CHECKED O. NELSON & R.E. HENITSON
IN CHARGE

CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5
PIERS & DETAIL SECTIONS

SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. 131	3-B-5	COOK	29	20
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I. 261(68)		



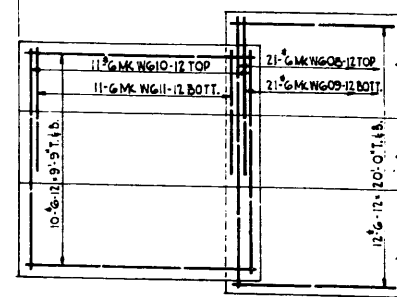
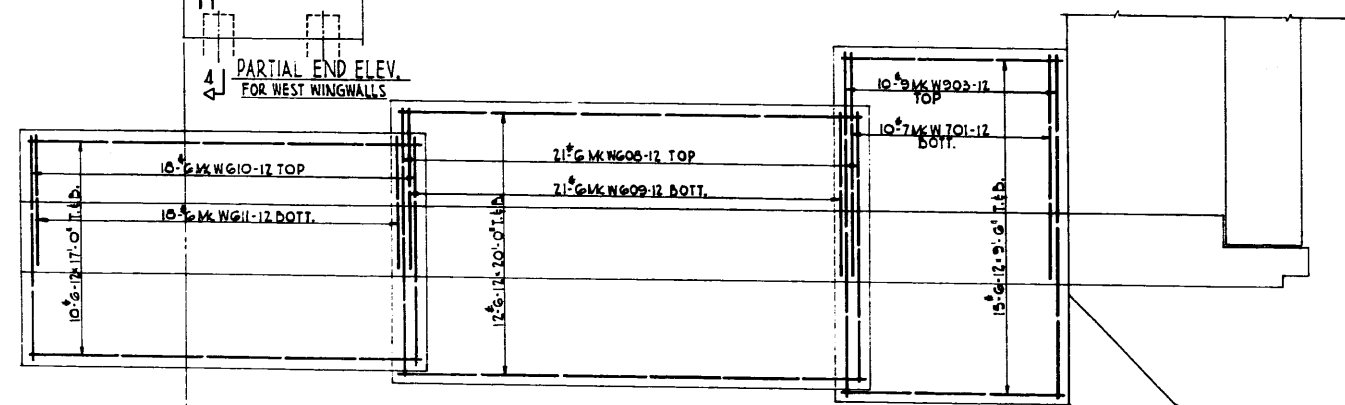
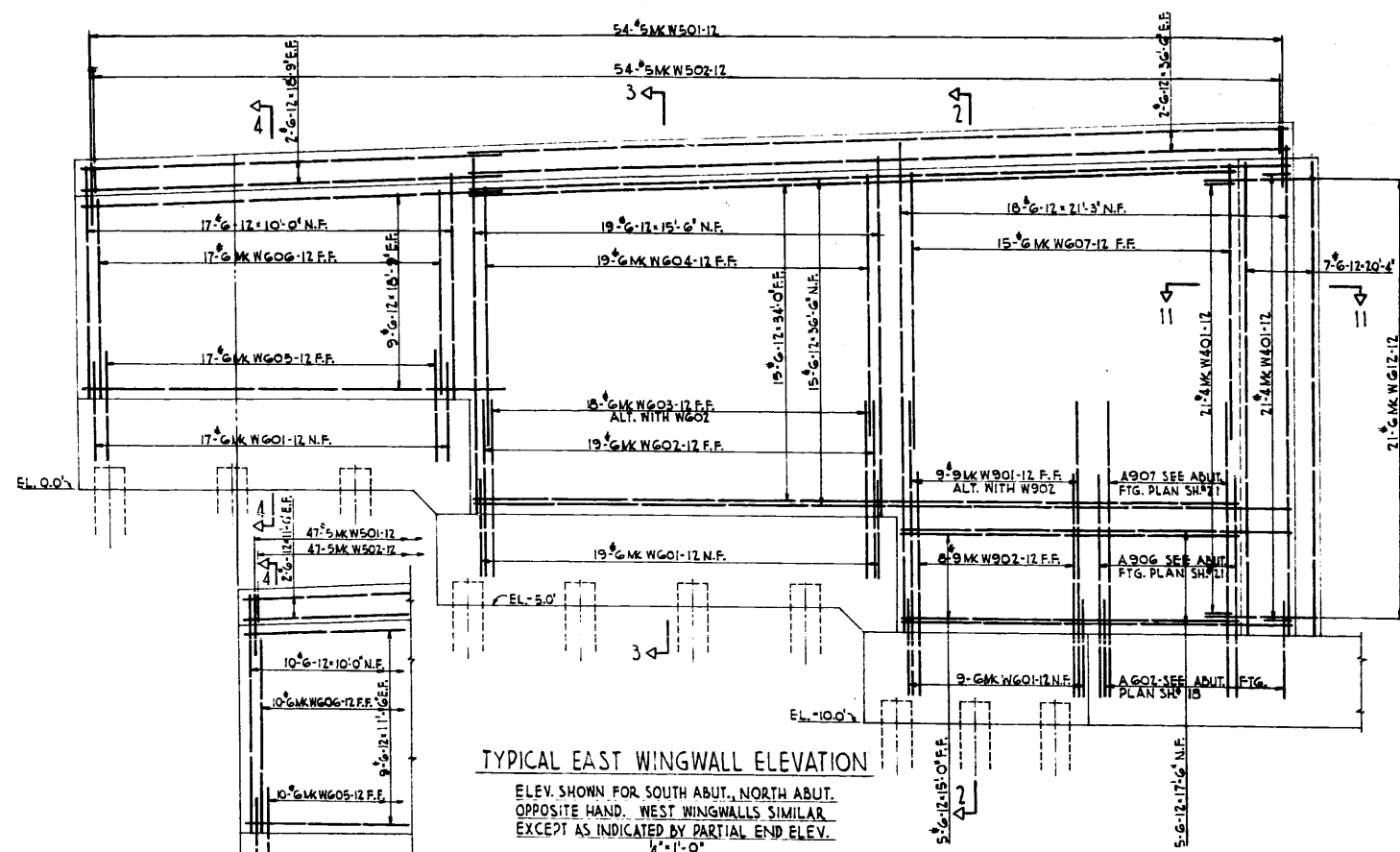
CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5
ABUTMENT PLAN AND ELEVATION

DE LEUW, CATHY & CO. ENGINEERS
DESIGNED BY J. R. SASSAMAN
DRAWN BY BROZOVIC, G. R.
CHECKED O. NELSON, R. E. HEWITSON
IN CHARGE

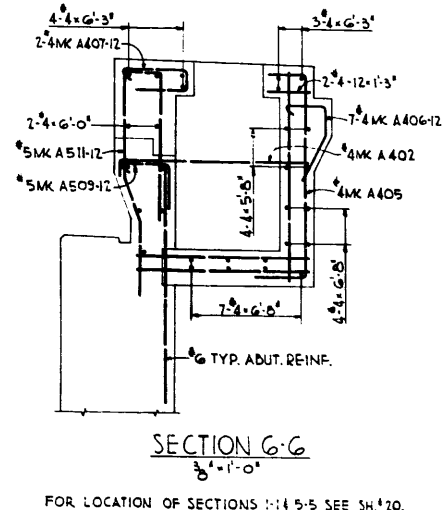
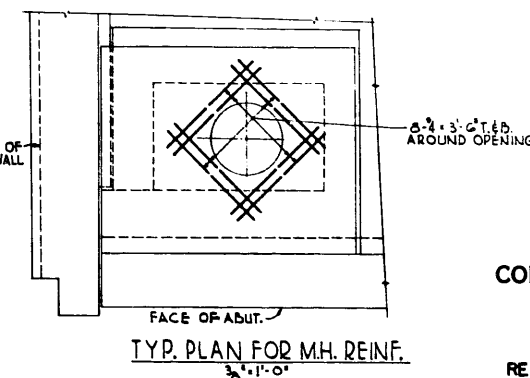
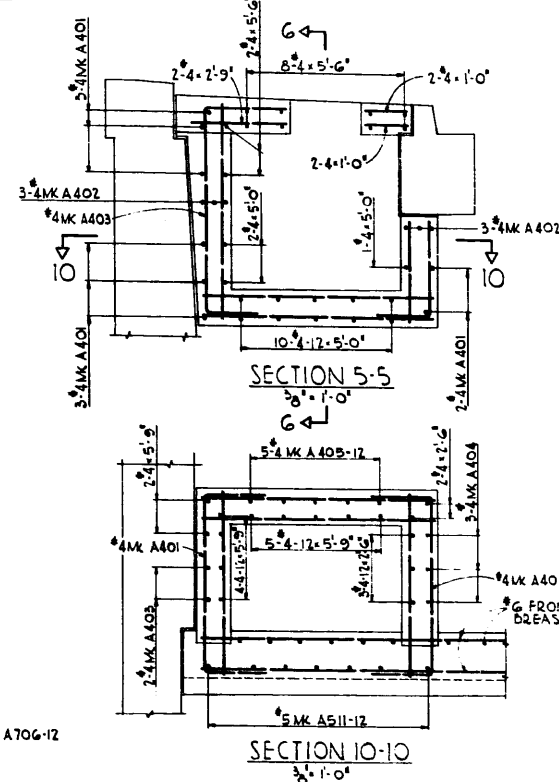
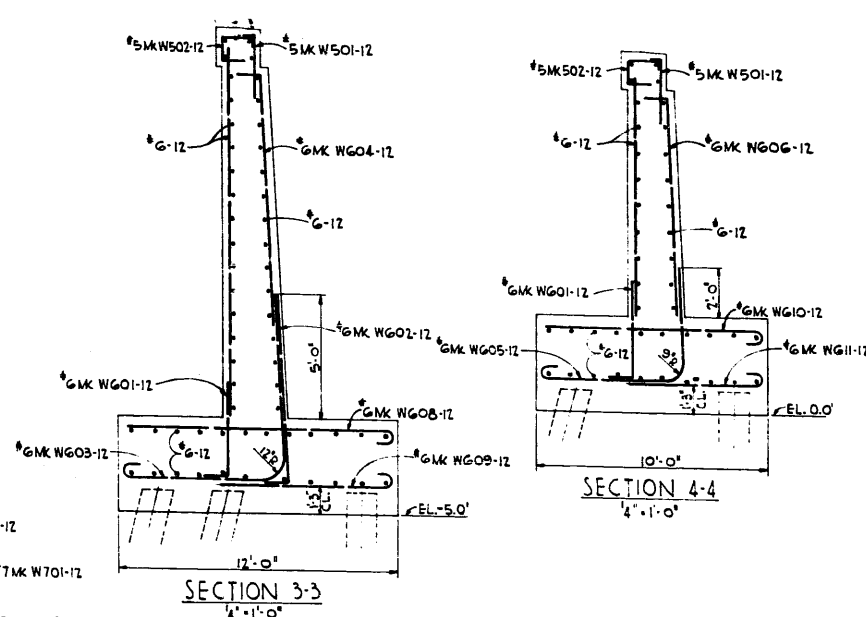
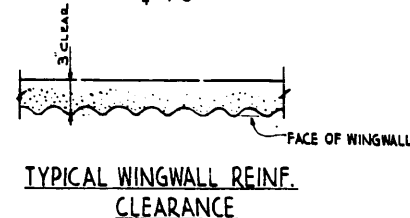
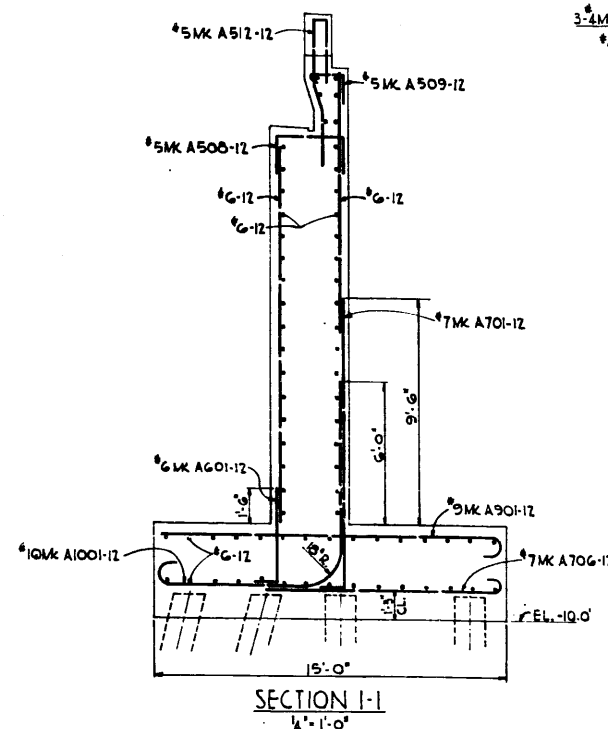
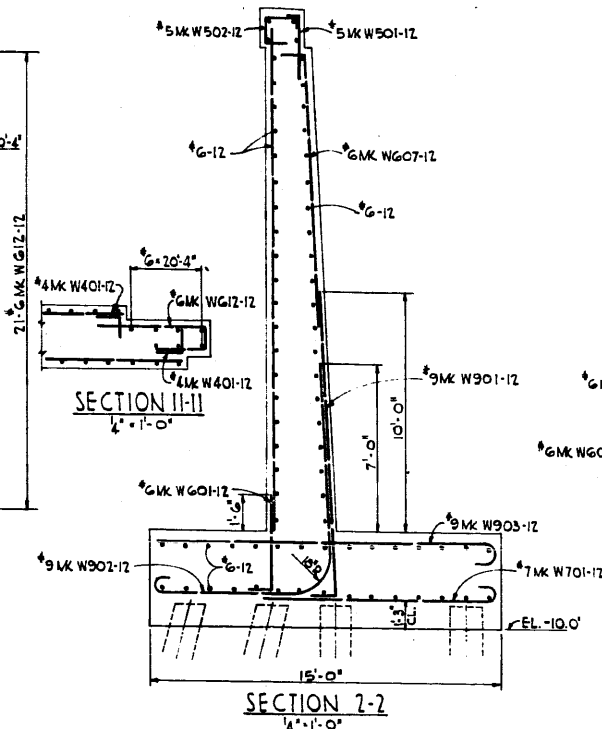
FOR WATERPROOFING ON BACK OF ABUTMENT & ABUTMENT WINGWALL SEE ILLINOIS STANDARD SPECIFICATIONS & SPECIAL PROVISIONS. INCLUDE IN COST OF CLASS X CONCRETE.

SCALE: AS NOTED

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. 131	3-B-5	COOK	29	23
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I. 261(68)		



PARTIAL FTG. PLAN FOR WEST WINGWALLS



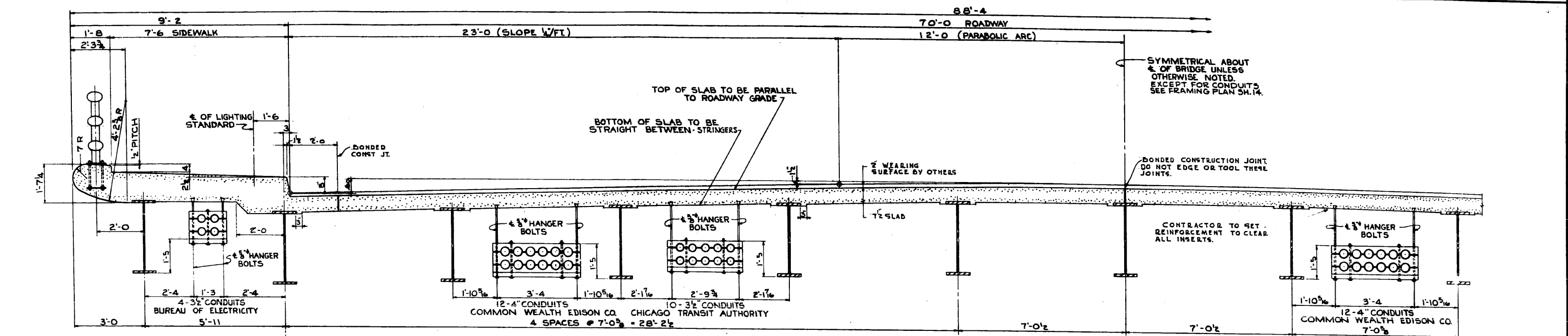
SEE SHEET #8 FOR NOTES ON CONCRETE AND REINFORCEMENT.
CLASS X CONCRETE IN 4 WINGWALLS - 625 CY.
REINFORCEMENT IN 4 WINGWALLS - 43,754 LBS.

CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5
REINFORCEMENT OF WINGWALL & SECTIONS

DE LEUW, CATHY & CO. ENGINEERS
DESIGNED BY J. R. SASSMAN
DRAWN BY DROZOVIC, G. E.
CHECKED O. NELSON
IN CHARGE

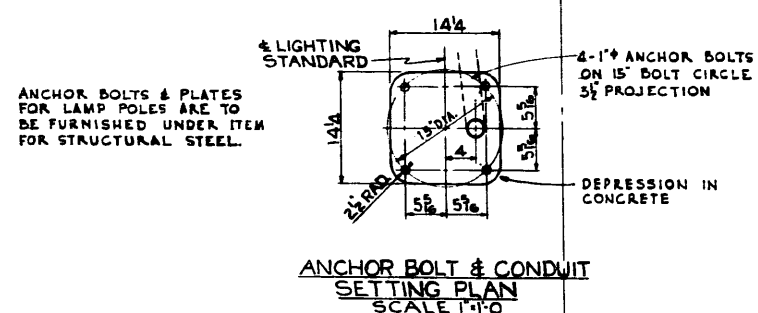
SCALE: AS NOTED

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-5 3-F-5	COOK	29	24
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT	U.126K68	



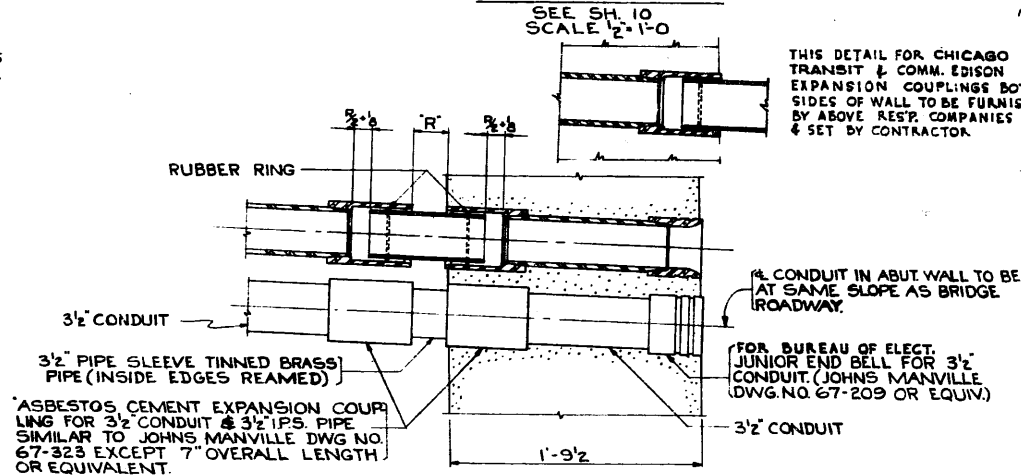
SECTION 2 - 2

SEE SH. 10
SCALE $\frac{1}{2}'' = 1'$



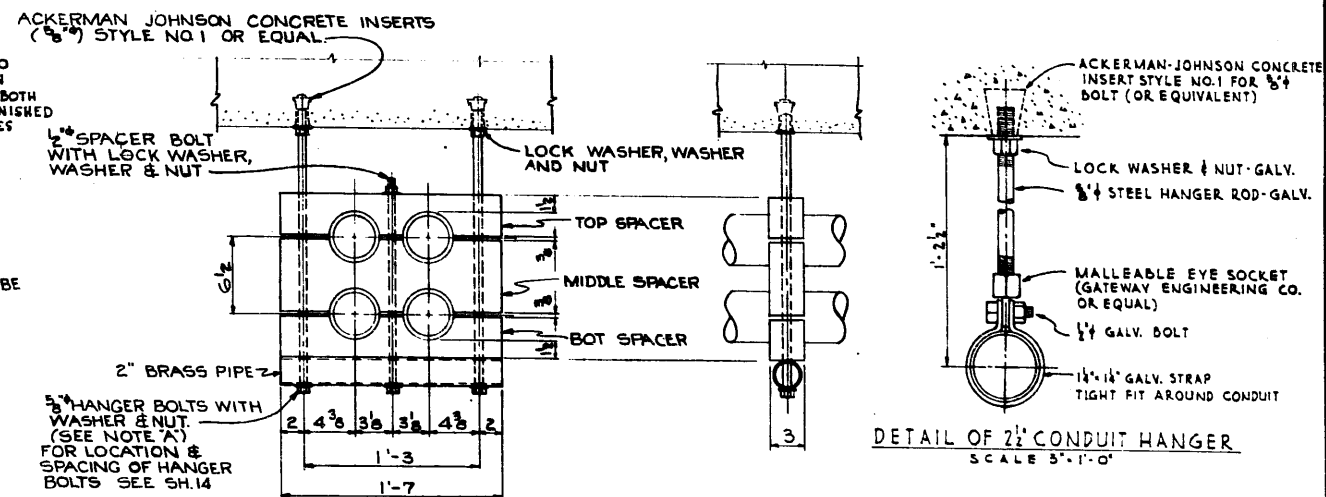
EXPANSION COUPLING ASSEMBLY AT ABUTMENT

FOR BUREAU OF ELECTRICITY AS SHOWN
FOR COMM. EDISON AS SHOWN & NOTED ABOVE
SCALE 1" = 1'-0"



FOUR-DUCT CONDUIT HANGER

BUREAU OF ELECTRICITY
SCALE 1/2"=1'0"



DETAIL OF 2½" CONDUIT HANGER
SCALE 3"=1'-0"

SCALE 3" = 1'-0"

NOTES:

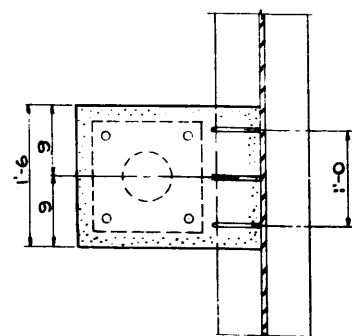
THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL MATERIAL REQUIRED BY THE BUREAU OF ELECTRICITY FOR THE BRIDGE PROPER WITHIN THE LIMITS SHOWN ON SHEET NO. 5. E. & D. EXCEPT THE ELECTRIC LAMP POLES. SEE NOTE BELOW FOR MANHOLE FRAMES & COVERS.

THE COMMON WEALTH EDISON CO. AND CHICAGO TRANSIT AUTHORITY WILL FURNISH TO THE CONTRACTOR CONCRETE INSERTS AND ABUTMENT EXPANSION COUPLINGS FOR INSTALLATION AS PART OF THE BRIDGE CONTRACT.

ALL CONDUIT, CONDUIT COUPLINGS AND SPACERS TO BE JOHNS MANVILLE TRANSGITE OR EQUAL. HOLES IN BRASS PIPE AND SPACERS TO BE DRILLED $\frac{3}{4}$ " FOR $\frac{3}{4}$ " BOLTS AND $\frac{1}{2}$ " FOR $\frac{1}{2}$ " BOLTS.

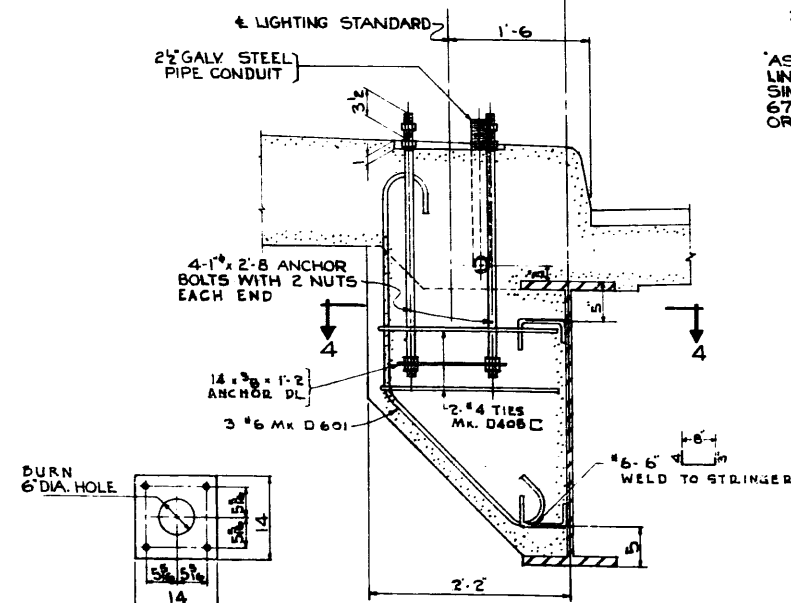
(A) ALL HANGER AND SPACER BOLTS, WASHERS AND NUTS SHALL BE STAINLESS STEEL. CUT HANGER BOLT FLUSH WITH LOWER NUT, PEEN, CENTER PUNCH OR SPOT WELD AT THREAD LINE TO PREVENT NUT FROM TURNING.

THE BUREAU OF ELECTRICITY WILL FURNISH THE 24" ϕ MANHOLE FRAMES AND COVERS, DRWG. 10797 TO THE CONTRACTOR FOR INSTALLATION AS PART OF THE BRIDGE CONTRACT (FOR THE 4 ELECTRICAL MANHOLES).



SECTION 4 - 4

SCALE 1"=1'-0"



SECTION 3-3

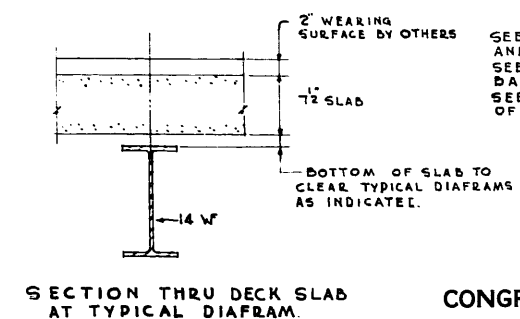
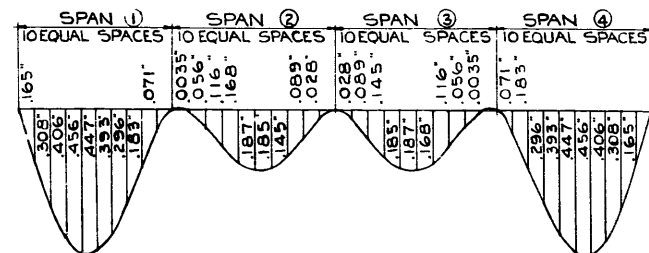
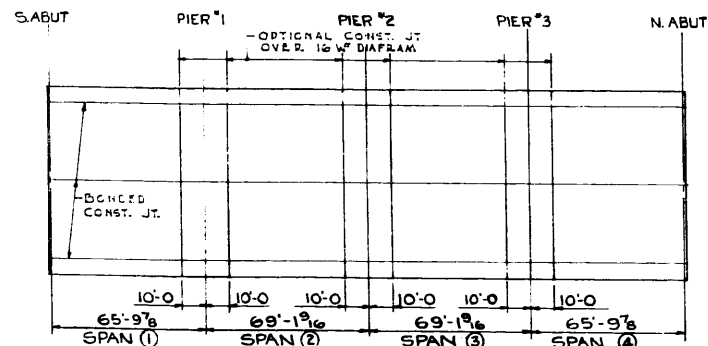
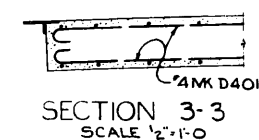
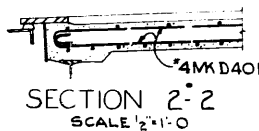
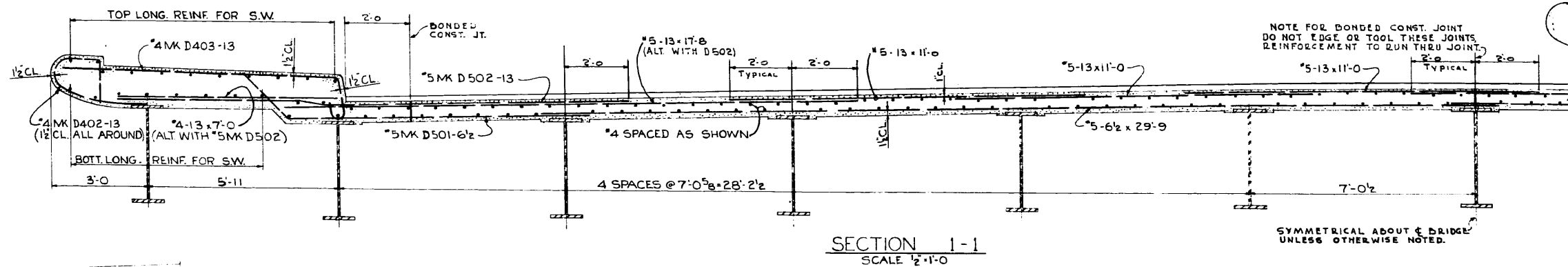
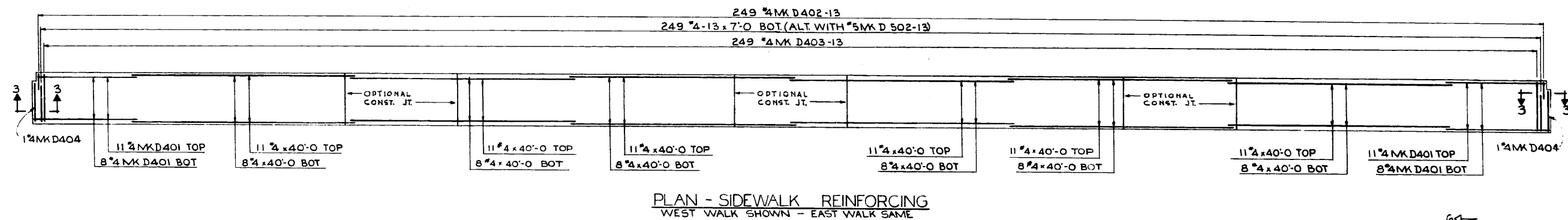
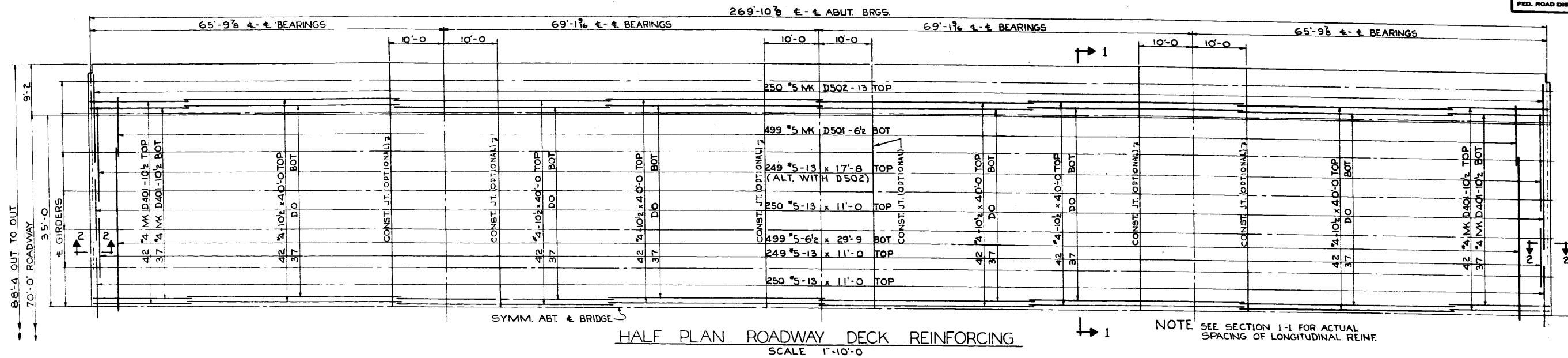
SEE SH. 14
SCALE 1"=1'-0"

DE LEUW, CATHIER & CO. ENGINEERS
DESIGNED BY _____
DRAWN BY J. R. SASSMAN
CHECKED D. NELSON
IN CHARGE *[Signature]*

CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5 3-F-5
CONCRETE DECK DETAILS

SCALE: AS NOTED

BORD. ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 131	3-B-5	COOK	29	25
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT U.I.261(68)		



CLASS X CONCRETE IN DECK - 652 CY.
REINFORCEMENT IN DECK - 12,484 LBS.

SEE SHEET NO. 6 FOR NOTES ON CONCRETE AND REINFORCEMENT.
SEE SHEET NO. 26 FOR REINFORCEMENT BAR LIST.
SEE SHEET NO. 14 & SHEET NO. 24 FOR LOCATION OF CONDUITS & INSERTS & DETAILS OF CONST.

CONGRESS STREET EXPRESSWAY
PAULINA STREET BRIDGE
SECTION 3-B-5
CONCRETE DECK REINFORCEMENT

DE LEUW, CATHAR & CO. ENGINEERS
DESIGNED BY W.C. KUTAY
DRAWN BY J.B. SASSMAN
CHECKED HEWITSON O. NELSON
IN CHARGE

SCALE: AS NOTED

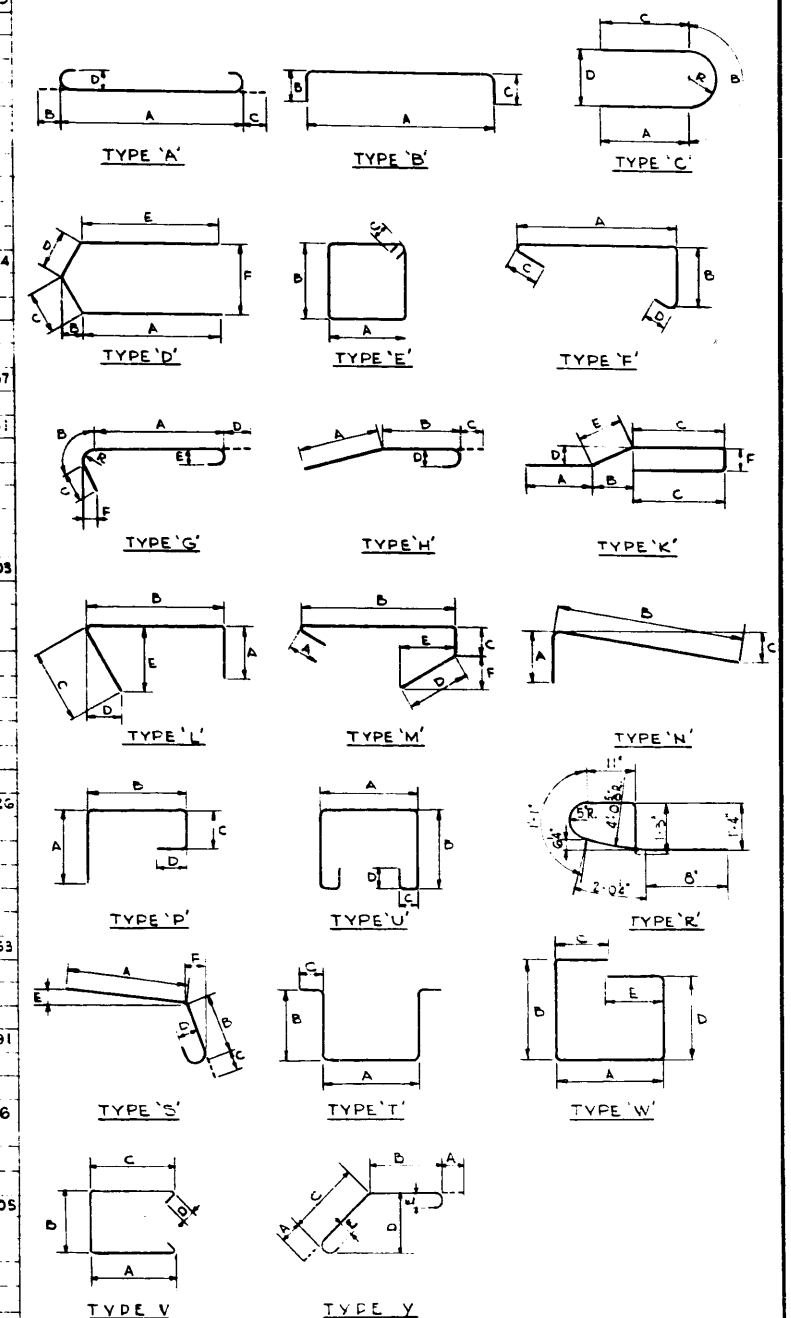
BOND ISSUE	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. 131		3-B-5	COOK	29	26
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT U.I. 26H(68)		

STRAIGHT BAR SCHEDULE

ITEM	NO. OF BARS	SIZE	LENGTH	WEIGHT
ABUTMENT REINF.				
16	*4	1'-0		
8	1	1'-3		
20	2'-6			
8	2'-9			
64	3'-6			
52	5'-0			
40	5'-6			
16	5'-8			
44	5'-9			
8	6'-0			
28	6'-3			
44	*4	6'-8		
WEIGHT #3 BARS	1112			
82	*6	7'-8		
172	1	11'-3		
4	1	12'-10		
7	1	14'-10		
80	1	16'-2		
80	1	16'-6		
12	1	16'-8		
4	1	16'-10		
4	1	18'-10		
44	1	20'-10		
284	*6	40'-0		
WEIGHT #6 BARS	26097			
32	*7	12'-0		
WEIGHT #7 BARS	785			
44	*9	16'-9		
WINGWALL REINF.				
120	*6	9'-6		
40	1	9'-9		
54	1	10'-0		
44	1	11'-6		
20	1	15'-0		
76	1	15'-6		
40	1	17'-0		
20	1	17'-6		
44	1	18'-9		
96	1	20'-0		
28	1	20'-4		
72	1	21'-3		
60	1	34'-0		
76	*6	36'-6		
WEIGHT #6 BARS	22143			
DECK REINF.				
498	*4	7'-0		
1176	*4	40'-0		
WEIGHT #4 BARS	33751			
1497	*5	11'-0		
498	*5	17'-8		
998	*5	29'-9		
WEIGHT #5 BARS	57321			
PIER REINF.				
24	*5	3'-0		
24	1	6'-3		
12	1	21'-0		
24	*5	27'-0		
WEIGHT #5 BARS	1170			
36	*6	6'-3		
294	1	8'-0		
18	1	8'-9		
112	1	17'-9		
112	1	18'-0		
56	*6	18'-6		

BENT BAR SCHEDULE

ITEM	NO. OF BARS	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	PIN DIA.	WEIGHT
ABUTMENT REINF.													
32	*4	8'-6	A401	B	5'-0	1'-9	1'-9						
24	1	6'-0	A402	B	5'-6	6'							
8	1	9'-9	A403	B	5'-9	1'-6	2'-6						
12	1	4'-2	A404	B	2'-8	1'-6							
20	1	8'-3	A405	B	5'-9	1'-6	1'-0						
28	1	5'-3	A406	M	4'-2	1'-2	8'	1'-3	7'	1'-2			
8	*4	4'-4 1/2	A407	M	4'-2	1'-10	8'	1'-6					
WEIGHT #4 BARS	596												
392	*4	19'-3	D401	A	18'-9	6'	0						
498	1	5'-8	D402	R	5'-4	1'-1	6'	4'	3'	2'	3'		
498	1	9'-11	D403	S	5'-4	1'-1	6'	4'	3'	2'	3'		
4	1	11'-10	D404	T	3'-8	3'-7	6'						
6	*4	5'-7	D405	V	1'-10	1'-2	1'-10	4'					
WEIGHT #4 BARS	10282												
398	*5	11'-4	D501	K	9'-4	1'-5	0	1'-5	2'-0	0	0		
500	*5	15'-10	D502	K	9'-6	9'	5'-6	2'	10'	0	0		
WEIGHT #5 BARS	20049												
9	*6	6'-0	D601	Y	5'	2'-8	2'-0	1'-7	6				
WEIGHT #6 BARS	81												
72	*3	6'-7	P301	E	2'-2	9'	4'						
72	*3	3'-0	P302	A	2'-2	5'	5'						
WEIGHT #3 BARS	259												
72	*5	12'-9	P501	F	8'-9	2'-2	5'	5'					
72	1	9'-0	P502	E	1'-11	2'-2	5'						
144	1	11'-2	P503	E	3'-8	1'-6	5'						
192	1	10'-3	P504	E	1'-4 1/2	3'-4	5'						
195	1	5'-2	P505	B	2'-2	1'-6	1'-6						
72	1	9'-9	P506	E	1'-4 1/2	5'-1	5'						
30	1	5'-11	P507	C	1'-9	3'-5	1'-3	2'-2					
96	1	6'-0	P508	B	2'-0	2'-0	2'-0						
96	*5	11'-0	P509	E	1'-4	3'-9	5'						
WEIGHT #5 BARS	9034												
147	*6	6'-6	P601	D	2'-3	1'-4	1'-0	1'-0	2'-3				
546	*6	5'-0	P602	B	4'-6	6'	0						
54	*6	6'-5	P603	C	1'-6	3'-5	1'-6	2'-2					
WEIGHT #6 BARS	6057												
270	*9	12'-8	P901	A	10'-6	1'-1	1'-1						
WEIGHT #9 BARS	11631												
18	*10	2'-10	P1001	B	20'-10	3'-0	3'-0						
36	*10	34'-0	P1002	B	3'-0	3'-0	0						
36	*10	10'-3	P1003	H	7'-0	2'-0	1'-3	11'-4					
WEIGHT #10 BARS	8903												
APPROACH REINF.													
16	*4	10'-11	C401	E	2'-8	2'-5	4'						
8	1	9'-6	C402	U	2'-8	2'-5	6'						
180	1	12'-5	C403	E	2'-8	3'-2	4'						
20	1	14'-11	C404	E	2'-8	4'-5	4'						
8	1	13'-6	C405	U	2'-8	4'-5	6'						
40	*4	11'-0	C406	U	2'-8	3'-2	6'						
WEIGHT #4 BARS	2226												
16	*9	36'-9	C901	B	35'-9	1'-0	0						
16	1	34'-9	C902	S	35'-9	1'-0	0						
8	1	20'-3	C903	X	12'-3	4'-0	2'-0	2'-10					
8	*9	17'-6	C904	X	3'-6	4'-0	4'-0	2'-10					
WEIGHT #9 BARS	4753												
160	*3	5'-2	AS301	E	7'	1'-8	4'						
160	*3	2'-10	AS302	L	1'-3	3'	1'-3	2'	1'-3				
4	*3	6'-6	AS303	V	2'-4	1'-2	2'-4	4'					
WEIGHT #3 BARS	491												
160	*5	7'-0	AS501	W	1'-7	1'-10	6'	1'-10	1'-3				
6	*5	4'-5	AS502	B	2'-9	1'-8	0						
WEIGHT #5 BARS	1196												
568	*6	21'-8	AS601	A	19'-6	1'-1	1'-1	10'					
102	*6	16'-8	AS602	A	14'-6	1'-1	1'-1	10'					
WEIGHT #6 BARS	37405												
WINGWALL REINF.													
168	*4	2'-0	W401	B	1'-0	1'-0	0						
WEIGHT #4 BARS	224												
202	*5	3'-2	W501	B	2'-8	6'	0						
202	*5	4'-4	W502	P	6'	1'-7	1'-3	1'-0					
WEIGHT #5 BARS	1581												
166	*6	5'-3	W601	B	4'-3	1'-0	0						
76	1	8'-10	W602	N	1'-0	7'-10	5'						
72	1	15'-1	W603	G	6'-1	1'-7	6'-9	8'	6'	4'			
76	1	11'-6	W604	B	10'-6	1'-0	0						
54	1	11'-4	W605	G	5'-6	1'-2	4'-0	8'	6'	2'			
54	1	9'-7	W606	B	8'-7	1'-0	0						
60	1	13'-0	W607	B	12'-0	1'-0	0						
84	1	12'-4	W608	A	11'-8	6'	0	6'					
84	1	7'-8	W609	A	7'-0	8'	0	6'					
58	1	10'-4	W610	A	9'-8	8'	0	6'					
58	1	6'-6	W611	A	5'-10	8'	0	6'					
84	*6	8'-4	W612	B	10'	5'-0	2'-6						
WEIGHT #6 BARS	13169												
40	*7	10'-8	W701	A	9'-10	10'	0	7'					
WEIGHT #7 BARS	873												
36	*9	13'-10	W901	N	1'-0	12'-10	8'						
32	*9	18'-0	W902	G	6'-3	2'-4	8'-4	1'-1	10'	5'			
40	*9	15'-9	W903	A	14'-8	1'-1	0	10'					
WEIGHT #9 BARS	5794												



DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY
DRAWN BY G. ULLIYE
CHECKED R. E. HEWITSON G. BROTOVIC
IN CHARGE

CONGRESS STREET EXPRESSWAY
PAULINA