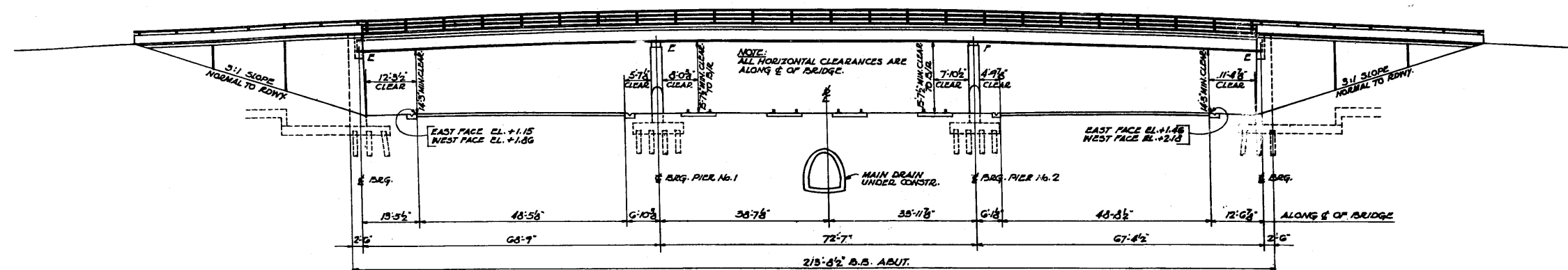
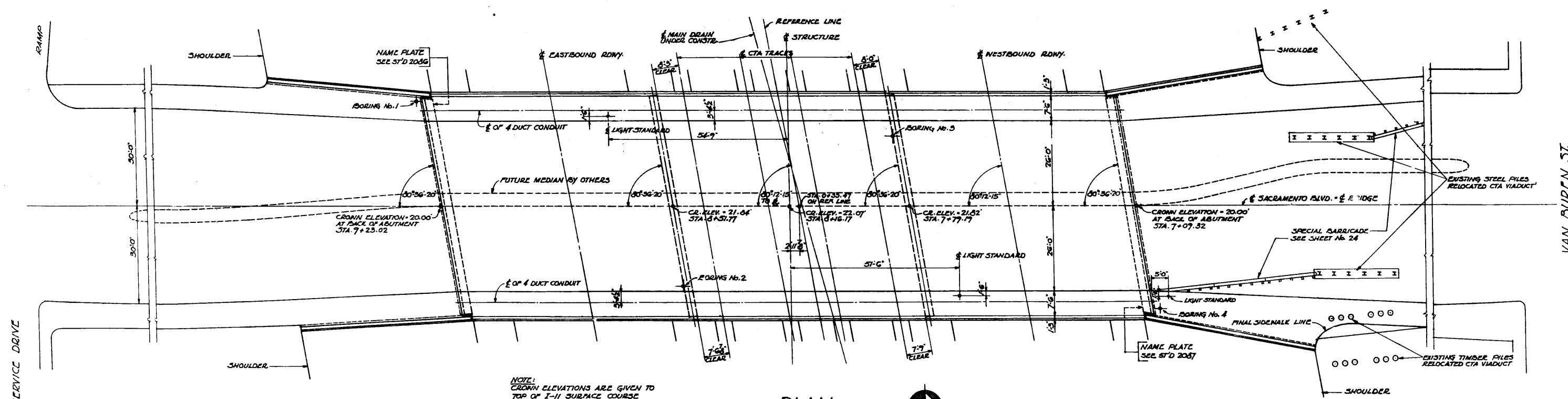


FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
131	38-13	COOK	59	2
STA.		TO ST.		
FED. ROAD DIV. NO. 4		ILLINOIS FED. AID PROJECT U1 261(75)		



ELEVATION
SCALE: 1"=15'



PLAN
SCALE: 1"=15'

EXAMINED BY BUREAU OF DESIGN
EXAMINED BY BUREAU OF CONSTRUCTION
EXAMINED BY EXPRESSWAY ENGINEER
ENTIRE SECTION INSPECTED AND APPROVED AS TO POLICY
DISTRICT ENGINEER
APPROVED BY ENGINEER OF
BRIDGE AND TRAFFIC STRUCTURES
DATE

CONGRESS STREET EXPRESSWAY
AT
SACRAMENTO BOULEVARD
F.A. RTE. 131 SEC. 38-13, 3F-13
P.A. PROJ. U1-261(75)
STATION 0+33.47
LOADING 4'10"-5'6"
195

SEE STD 2086

LETTERING FOR NAME PLATES

BUILT BY
STATE OF ILLINOIS
WITH THE CO-OPERATION OF
CITY OF CHICAGO
COUNTY OF COOK
FEDERAL GOVERNMENT
195

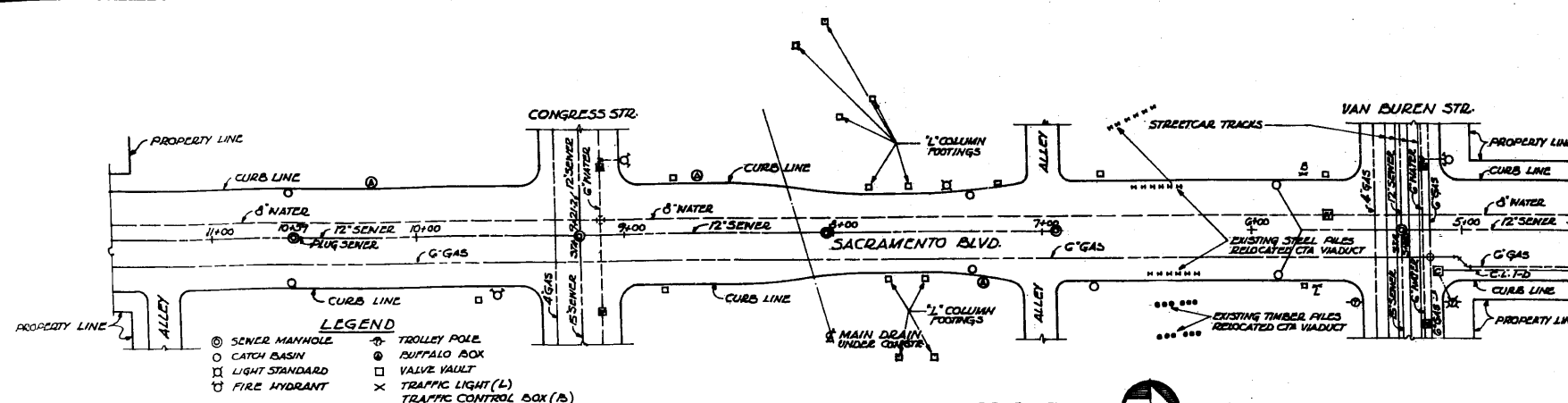
SEE STD 2087

NOTE:
CONTRACTOR SHALL VERIFY
STATION FOR NAME PLATE
BEFORE CASTING THE PLATE.

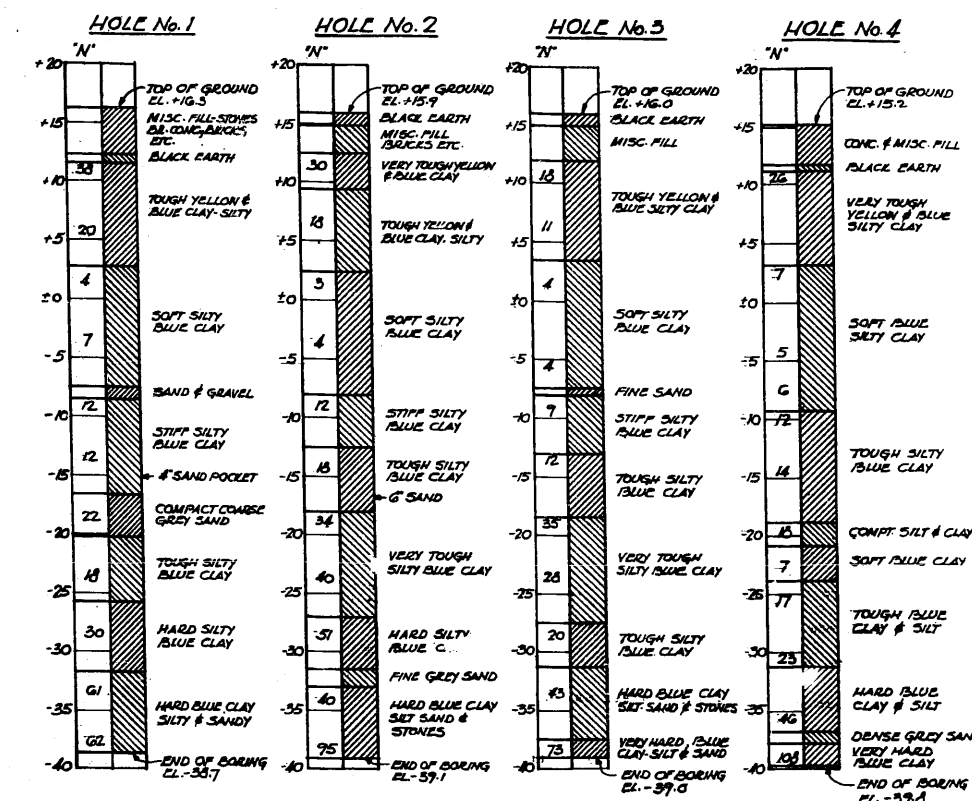
ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET CHICAGO-ILLINOIS 295C-2

GENERAL PLAN & ELEVATION
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U1 261(75)
F.A. RTE. 131 SECTION 38-13, 3F-13
COOK COUNTY

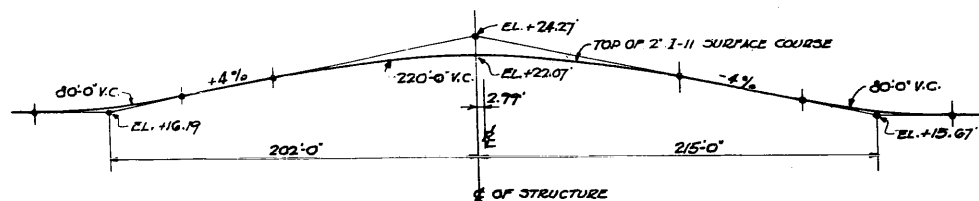
FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
181	3B-13	COOK	39	5
STA.	TO STA.			
FED. ROAD DIV. NO. 4	ILLINOIS	FED. PROJECT	261,731	



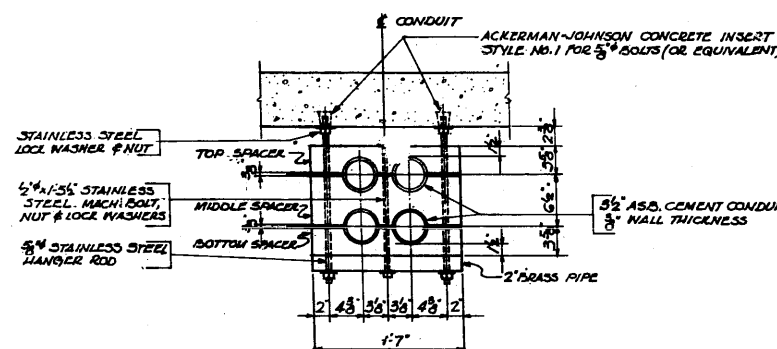
SOIL TEST BORINGS



NOTE:
"N" INDICATES NUMBER OF BLOWS REQUIRED TO DRIVE SAMPLE SPOON 12" WITH 140 LB WEIGHT FALLING 30". SAMPLE SPOON 12" INSIDE DIAMETER - 2" OUTSIDE DIAMETER.
P. 2 LOCATION OF BORINGS SEE SHEET NO. 2.
BORING DATA ARE SHOWN ONLY AS A GUIDE FOR BIDDERS IN ESTIMATING SOIL CONDITIONS WHICH MAY BE ENCOUNTERED IN THE WORK.



PROFILE ALONG C OF SACRAMENTO BLVD.
HORIZ. SCALE 1"=50'0"
VERT. SCALE 1"=10'0"



NOTES:
1. HANGERS TO BE SPACED AT 4'-0" CTRS.
2. HOLES IN BRASS PIPE & SPACERS TO BE DRILLED 1/8" LARGER THAN DIAMETER OF BOLT.
3. CONDUIT AND SPACERS TO BE "JOHN MANVILLE" ASBESTOS CEMENT OR EQUAL WIDTH OF SPACERS TO BE 5" MEASURED IN DIRECTION OF CONDUIT.

DETAIL OF CONDUIT HANGER
FOR CHICAGO PARK DISTRICT
SCALE 1"=10"

GENERAL NOTES

CLASS X CONCRETE SHALL BE USED THRU-OUT EXCEPT AS NOTED.
HANDRAIL CONCRETE SHALL BE USED IN CONCRETE PORTION OF HANDRAILS AT TOP OF NING WALLS.
CONCRETE FLOOR SLAB SHALL BE PLACED IN ONE CONTINUOUS OPERATION BETWEEN CONSTR. JOINTS SHOWN AND SHALL BE FINISHED IN ACCORDANCE WITH SECTION 27 OF THE STANDARD SPECIFICATIONS.
ALL CONNECTIONS FOR STRUCTURAL STEEL SHALL BE RIVETED EXCEPT AS NOTED. ALL RIVETS SHALL BE 3/4" IN 1/2" HOLES EXCEPT IN DEAM PLANGE SPICES WHICH SHALL BE 7/8" IN 1/2" HOLES. HOLES FOR DEAM SPICES SHALL BE PUNCHED 1/8" AND REAMED TO CORRECT SIZE WITH STRIKERS ASSEMBLED FULL LENGTH IN THE SHOP IN PROPER POSITION, WITH OR WITHOUT DIAPHRAGMS IN PLACE. LEAVE ASSEMBLED FOR INSPECTION.
ALL ROLLERS, ROCKERS, BEARING PLATES AND ANCHOR BOLTS SHALL BE FINISHED AND SET IN ACCORDANCE WITH ARTICLES 55.4 (M) AND 55.8 (F) OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED FOR PAYMENT AS STRUCTURAL STEEL. ESTIMATED WEIGHT - 20,330#.
ANCHOR BOLTS SHALL BE SET BEFORE RIVETING DIAPHRAGMS OVER PILES AND ABUTMENTS. STRUCTURAL STEEL AND METAL HANDRAILS SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT. SEE SPECIAL PROVISIONS.
SHOP INSPECTION BY ILLINOIS DIVISION OF HIGHWAYS.
THE CONTRACTOR SHALL DRIVE SIX TEST PILES AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.
UNLESS OTHERWISE NOTED, ALL REINFORCEMENT BARS SHALL BE DEFORMED CONFORMING TO A.S.T.M. A-305.

SUMMARY OF QUANTITIES
FOR ELECTRICAL WORK SEE
SHEET 23

SUMMARY OF QUANTITIES

ITEM	UNIT	QUANTITY		
		SUPER.	SUB.	TOTAL
CLASS X CONCRETE	CU. YDS.	107.4	244.4	1251.8
HANDRAIL CONCRETE	CU. YDS.		27.4	27.4
REINFORCEMENT BARS	LBS.	106,780	99,280	206,060
STRUCTURAL STEEL	LBS.	540,880		540,880
METAL HANDRAIL (SUPERSTRUCTURE)	LIN. FT.	418.4		418.4
METAL HANDRAIL (NING WALLS)	LIN. FT.	205.2		205.2
NAME PLATES	EACH	2		2
SPECIAL EXCAVATION	CU. YDS.		16,000	16,000
CLASS A EXCAVATION FOR STRUCTURES	CU. YDS.		2,700	2,700
PIPE UNDERDRAINS	LIN. FT.		342	342
MISCELLANEOUS TIMBER	F.B.M.			5700
FURNISHING CREOSOTED PILES 20'-1" TO 30'	LIN. FT.		10620	10620
FURNISHING CREOSOTED PILES OVER 30'	LIN. FT.		3488	3488
FURNISHING UNTREATED PILES OVER 45'	LIN. FT.		1,255	1,255
DRIVING TIMBER PILES	LIN. FT.		15,376	15,376
TEST PILES	EACH		6	6
SPECIAL FARRICADES	EACH		2	2
P.C.C. PAVEMENT (8" UNIFORM)	SQ. YDS.			3200
P.C.C. PAVEMENT (16 1/2" - 10 1/2" - 16 1/2")	SQ. YDS.			515
P.C.C. BASE COURSE (8" UNIFORM)	SQ. YDS.			845
PAVEMENT REPLACEMENT ENTIRE	SQ. YDS.			140

BILL OF MATERIAL CONTINUED FOR ELECTRICAL WORK ON SHEET 23

TOTAL BILL OF MATERIAL SEC. 3B-13

ITEM	UNIT	QUANTITY		
		SUPER.	SUB.	TOTAL
P.C.C. DRIVEWAY PAVEMENT (8" UNIFORM)	SQ. YDS.			54
GR. OR CR. STONE BASE COURSE (8" UNIFORM)	TONS			56
ZERODUS GRANULAR EMBANKMENT	CU. YDS.			502
P.C.C. SIDEWALK (8" UNIFORM)	SQ. FT.			7570
REINFORCED CONCRETE SIDEWALK	SQ. FT.			1535
DETOUR SIDEWALK	SQ. FT.			3180
BITUMINOUS MATERIAL (PRIME COAT)	GALS.			550
SIX CONC. SURFACE COURSE (FINE DENSE BRICK TYPE, SURFACE 3-1/2")	TONS			305
SIX CONC. BINDER COURSE	TONS			305
COMB. CONC. CURB AND GUTTER (TYPE 3)	LIN. FT.			1103
CONCRETE CURB (TYPE 4)	LIN. FT.			1660
STORM SEWER (TYPE 1)	LIN. FT.			110
18" STORM SEWER (TYPE 2)	LIN. FT.			140
MANHOLE - TYPE A - 4 FT. DIA. WITH TYPE 5 FRAME AND CLOSED LID	EACH			3
CATCH BASIN - TYPE A - 3 FT. DIA. WITH TYPE II FRAME AND GRADE	EACH			4
CATCH BASIN - TYPE A - 3 FT. DIA. WITH TYPE I FRAME AND CLOSED LID	EACH			1
WILEY TYPE A WITH TYPE II FRAME & GRADE	EACH			12
CATCH BASIN TO BE ADJUSTED	EACH			6
MANHOLE TO BE ADJUSTED	EACH			3
FILLING EXISTING CATCH BASIN	EACH			4
TRENCH BACKFILL	CU. YDS.			57
RUMBLE	MANHOLE			12
AGGREGATE (PRIME COAT)	TONS			11

TOTAL BILL OF MATERIAL SEC. 3F-13

ITEM	UNIT	QUANT.
STRUCTURAL STEEL	LBS.	540,880

STRESSES

$f_s = 15,000 \text{ PSI}$ STRUCTURAL STEEL
 $f_s = 20,000 \text{ PSI}$ REINFORCEMENT
 $f_c = 1200 \text{ PSI}$ SUPERSTRUCTURE & PIERS
 $f_c = 800 \text{ PSI}$ ABUTMENT
 $n = 10$

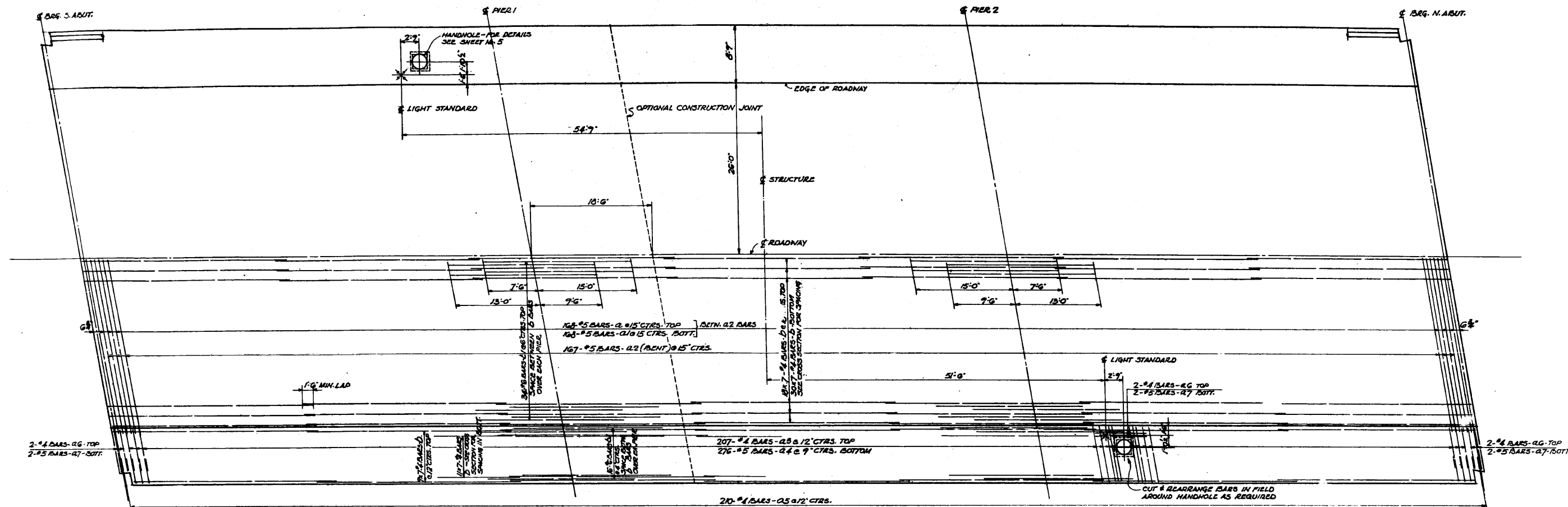
DESIGN LOADING

H 20 - S16

QUANTITIES - UTILITIES
GRADE SEPARATION
SACRAMENTO BOULEVARD

OVER
CONGRESS STREET EXPRESSWAY
PROJECT U126(75)
P.A. RTE. 131 SECTION 3B-13, 3F-13
COOK COUNTY

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET CHICAGO-ILLINOIS 275C-3

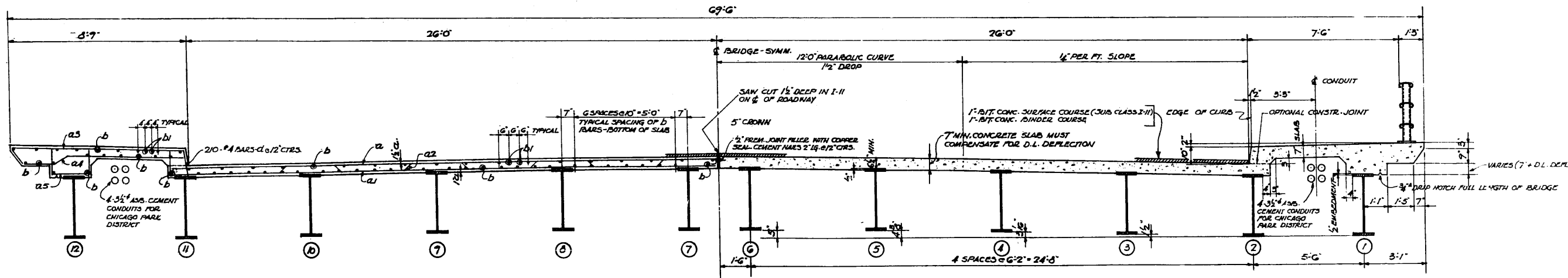


NOTE:
BARS NOTED THUS - 16x7-#4 ETC. - INDICATE 16 LINES
OF BARS WITH 7 LENGTHS OF BAR PER LINE

PLAN
SCALE: 3/8"=1'-0"



NOTE:
THE ROADWAY SLAB SHALL HAVE A MINIMUM THICKNESS OF 7" OVER ABUTMENTS AND
PIERS AND SHALL BE INCREASED IN THICKNESS BETWEEN THESE SUPPORTS FOR THE
FULL WIDTH OF ROADWAY BY THE AMOUNT OF THE D.L. DEFLECTION.
THE FLANGES OF ALL I-BEAM STRINGERS SHALL BE EMBEDDED 1/2" IN THE BOTTOM
OF THE CONCRETE SLAB FOR THE FULL LENGTH OF THE BEAMS.



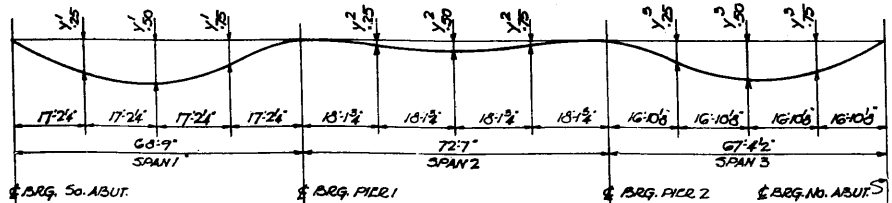
CROSS SECTION
SCALE: 3/8"=1'-0"

BILL OF MATERIAL - SUPERSTR. SEC. 3B-13

ITEM	UNIT	QUANT.
CLASS X CONCRETE	CU. YDS.	376.6
REINFORCEMENT BARS	LBS.	65,908
STRUCTURAL STEEL	LBS.	580,880
METAL HANDRAIL (SUPERSTRUCTURE)	LIN. FT.	213.4
ELECTRIC CONDUITS	LIN. FT.	1710

ALBERT BENESCH & ASSOCIATES CONSULTING ENGINEERS
330 EAST ADAMS STREET CHICAGO-ILLINOIS 275C-1

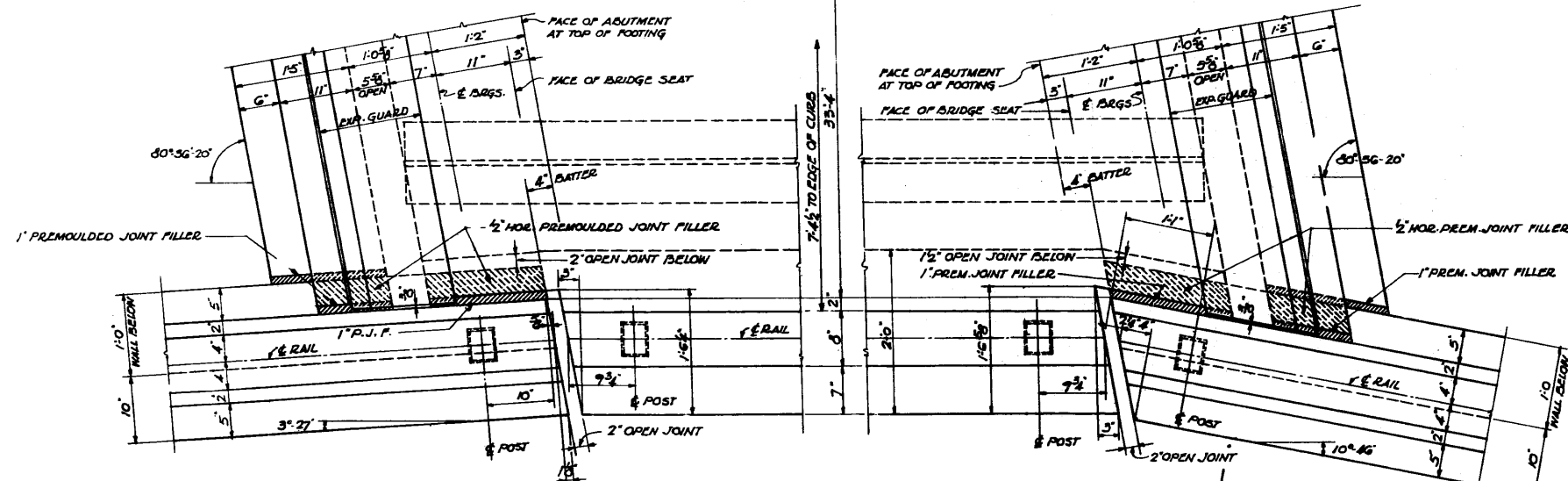
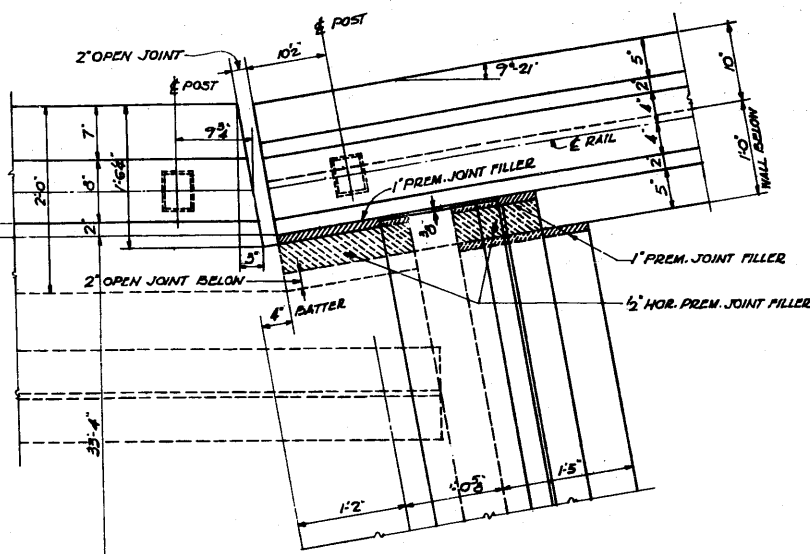
DECK REINFORCEMENT PLAN
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U1261(75)
P.A.R.T. 131 SECTION 3B-13, 3F-13
COOK COUNTY



D.L. DEFLECTION DIAGRAM

TABLE OF 'Y' DIMENSIONS

BEAM \ Y"	Y' ₂₅	Y' ₃₀	Y' ₃₅	Y' ₄₀	Y' ₄₅	Y' ₅₀	Y' ₅₅	Y' ₆₀	Y' ₆₅	Y' ₇₀	Y' ₇₅	Y' ₈₀	Y' ₈₅
1#12	3/4	1 1/8	1 1/4	1 1/2	1 3/4	1 7/8	2	2 1/8	2 1/4	2 1/2	2 3/4	2 7/8	3
2#12, 4, 5, 6, 7, 10, 11	1/2	5/8	3/4	1/2	5/8	3/4	1/2	5/8	3/4	1/2	5/8	3/4	1/2
6 #7	1/2	1/2	5/8	1/2	5/8	1/2	1/2	5/8	1/2	5/8	1/2	5/8	1/2

[illegible]

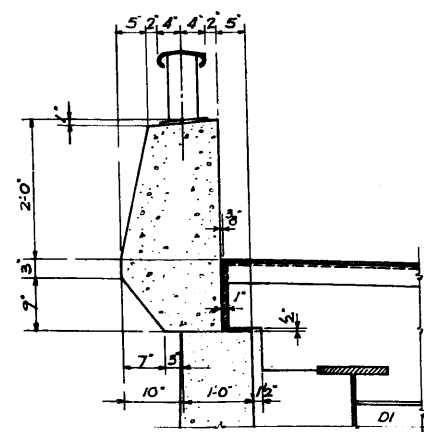
The image contains two detailed cross-section diagrams of bridge abutments, labeled 'LEFT' and 'RIGHT'.

Left Diagram:

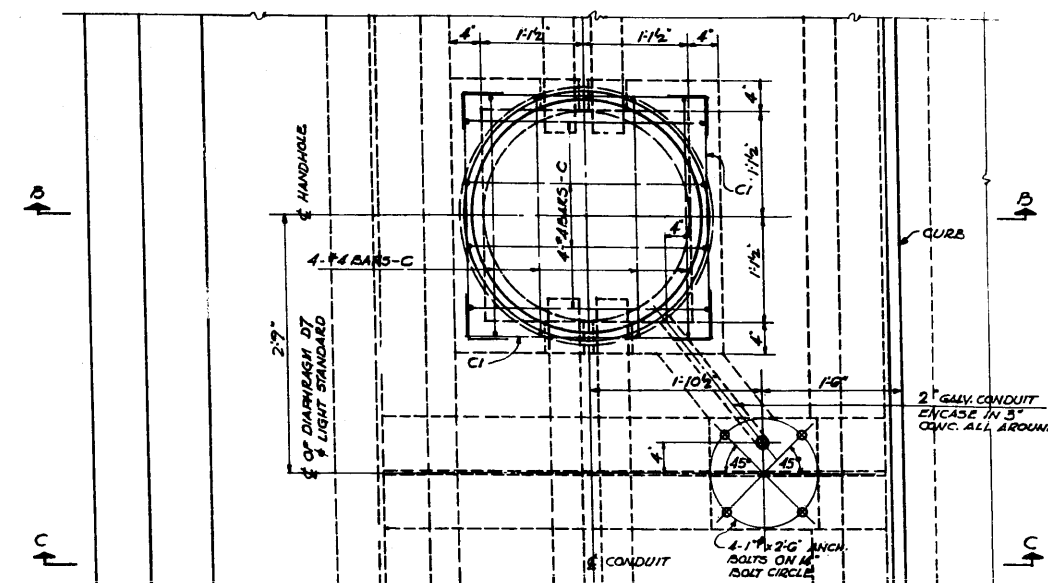
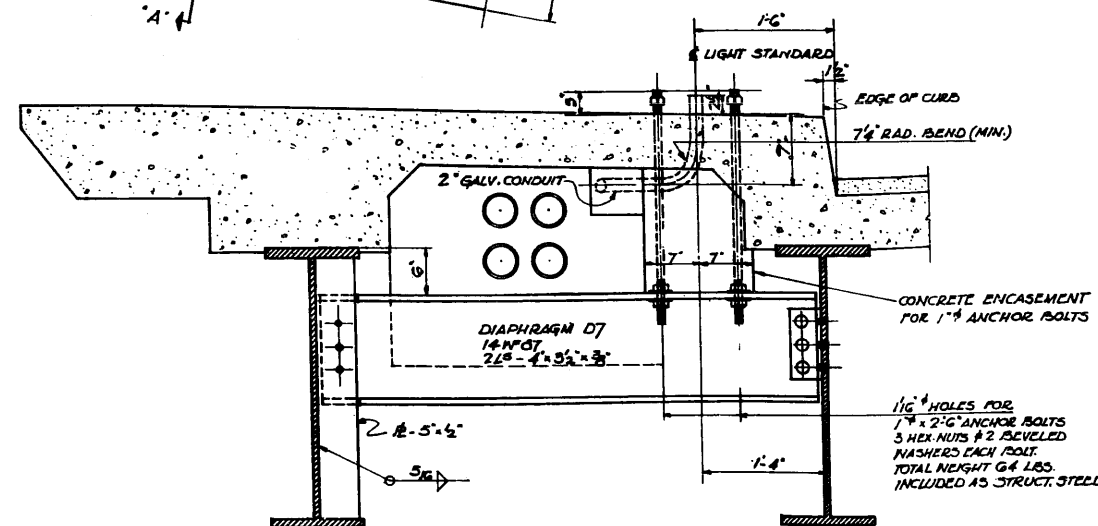
- FACE OF ABUTMENT AT TOP OF FOOTING:** Dimensions include 1:2, 11", 3", 1:2, 10", 15", 6", 11", 5 1/2" OPEN, 2' & BRGS., and 4' BATTER.
- FACE OF BRIDGE SEAT:** Dimensions include 1:2, 11", 3", 1:2, 10", 15", 6", 11", 5 1/2" OPEN, 2' & BRGS., and 4' BATTER.
- EXP. GUARD:** Dimensions include 1:2, 11", 3", 1:2, 10", 15", 6", 11", 5 1/2" OPEN, 2' & BRGS., and 4' BATTER.
- JOINT FILLER:** 1' PREMOLDED JOINT FILLER, 1" P.J.F., 2' OPEN JOINT BELOW, 1" RAIL, 1" P.J.F., 1" RAIL, 10", 9 1/2", 4" POST, 2' OPEN JOINT.
- Dimensions:** 10' WALL BELOW, 1:10, 10', 5' 1/2", 4", 4", 2", 5", 3' 2 1/2", 10', 9 1/2", 4" POST, 2' OPEN JOINT.

Right Diagram:

- FACE OF ABUTMENT AT TOP OF FOOTING:** Dimensions include 1:2, 11", 3", 1:2, 10", 15", 6", 11", 5 1/2" OPEN, 2' & BRGS., and 4' BATTER.
- FACE OF BRIDGE SEAT:** Dimensions include 1:2, 11", 3", 1:2, 10", 15", 6", 11", 5 1/2" OPEN, 2' & BRGS., and 4' BATTER.
- EXP. GUARD:** Dimensions include 1:2, 11", 3", 1:2, 10", 15", 6", 11", 5 1/2" OPEN, 2' & BRGS., and 4' BATTER.
- JOINT FILLER:** 1' PREMOLDED JOINT FILLER, 1" P.J.F., 2' OPEN JOINT BELOW, 1" RAIL, 1" P.J.F., 1" RAIL, 10", 9 1/2", 4" POST, 2' OPEN JOINT.
- Dimensions:** 10' WALL BELOW, 1:10, 10', 5' 1/2", 4", 4", 2", 5", 3' 2 1/2", 10', 9 1/2", 4" POST, 2' OPEN JOINT.



Technical drawing of a mechanical part, likely a bracket or support. The drawing shows a side view with dimensions in inches. The top edge has a total width of 10 inches, divided into segments of 5, 2, 4, 4, 2, and 5 inches. The left side has a total height of 12 inches, divided into segments of 2, 0, 3, and 7 inches. The right side has a total height of 10 inches, divided into segments of 3, 1, and 6 inches. The bottom edge has a total width of 10 inches, divided into segments of 7, 5, 1, 0, and 1/2 inches. The part features a central vertical slot, a horizontal slot on the right side, and a small rectangular feature at the bottom right. The drawing is labeled 'DI' at the bottom right.



2'9" Ø OF DIAPHRAGM DT. & LIGHT STANDARD

HANDHOLE

4-#4 BARS-C

4-#4 BARS-C

CI

1-10"

14"

45°

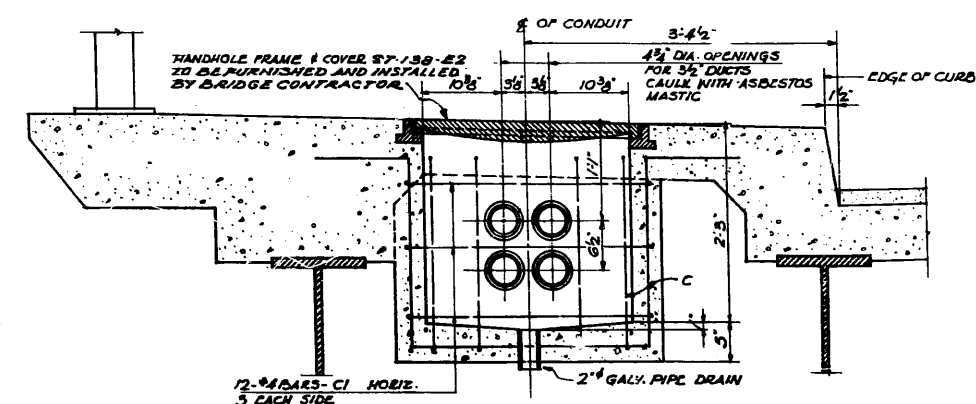
45°

4-1/4" x 3/4" INCH BOLTS ON 14" BOLT CIRCLE

2" GALV. CONDUIT ENCASE IN 3" CONC. ALL AROUND

CONDUIT

QUIRB



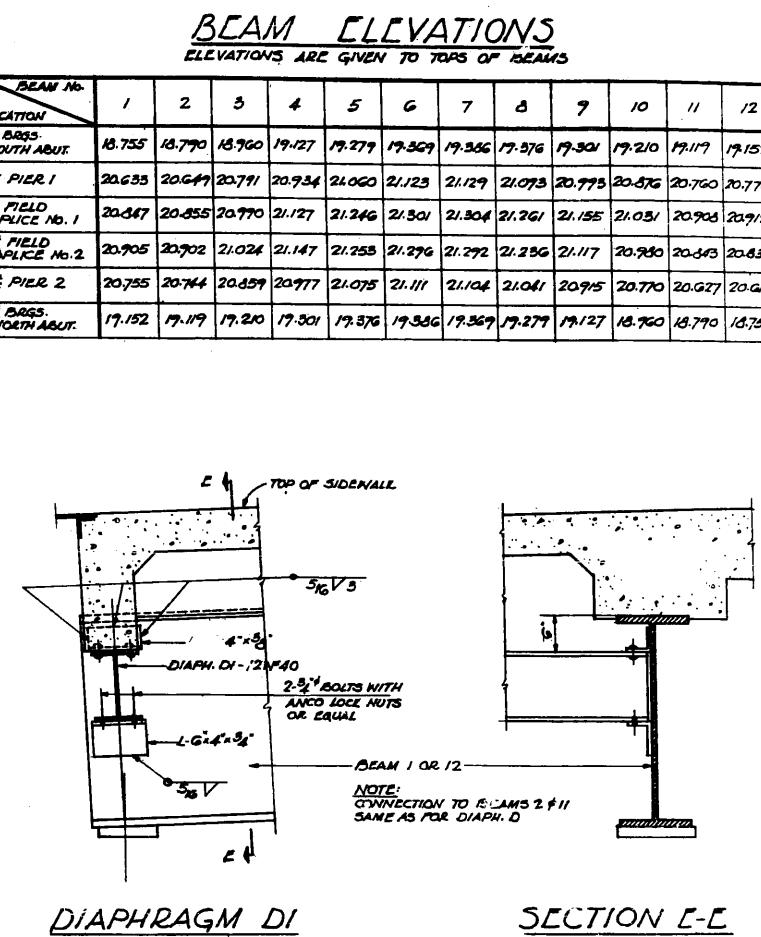
ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET. CHICAGO-ILLINOIS 295C-5

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET. CHICAGO-ILLINOIS 295C-5

[illegible]

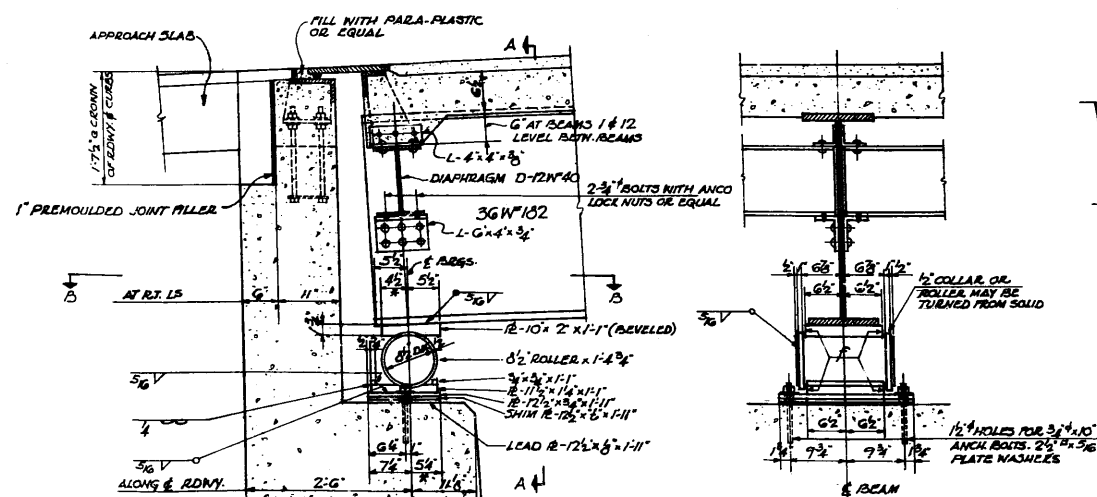
NORTH

SCALE: $\frac{1}{32}'' = 1'-0''$



DIAPHRAGM DI

SECTION E-E



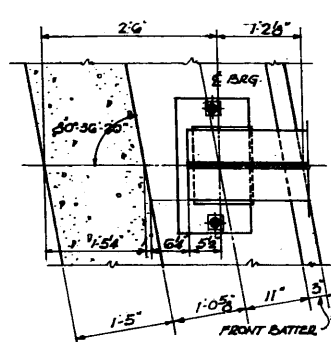
SECTION AT ABUTMENTS

SECTION A-A

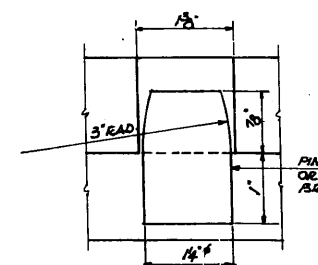
NOTE TO DIRECTOR:
INCREASE EACH DIMENSION MARKED THUS * BY SAME AMOUNT IF ABUTTM. HAS
MOVED OR IF TEMP. IS ABOVE 50°F. DECREASE EACH BY SAME AMOUNT IF
TEMP. IS BELOW 50°F.

't' DIMENSIONS

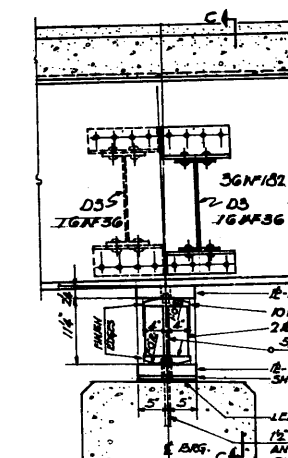
BEAM NO.	1	2	3	4	5	6	7	8	9	10	11	12
SOUTH ABUT.	-	$\frac{7}{16}$	-	-	$\frac{1}{16}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	-	-	$\frac{3}{8}$	
PIER No. 1	$\frac{1}{2}$	$\frac{11}{16}$	-	-	$\frac{3}{8}$	$\frac{1}{16}$	$\frac{3}{8}$	-	-	$\frac{1}{2}$	$\frac{1}{4}$	
PIER No. 2	$\frac{3}{8}$	$\frac{1}{2}$	-	-	$\frac{3}{8}$	$\frac{1}{16}$	$\frac{3}{8}$	-	-	$\frac{1}{2}$	$\frac{1}{4}$	
NORTH ABUT.	$\frac{5}{8}$	-	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{2}$	-	-	-	$\frac{1}{16}$	-	



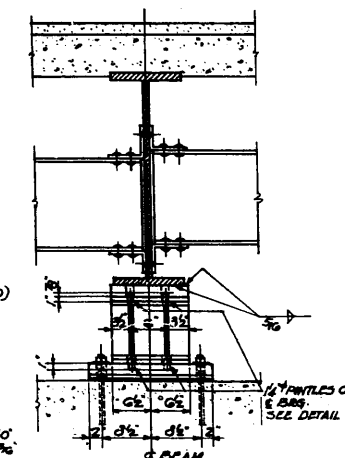
SECTION B-B



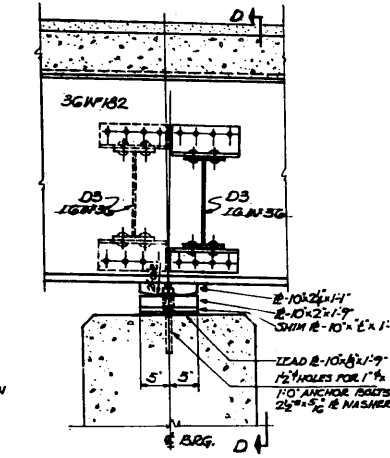
PINTLE DETAIL



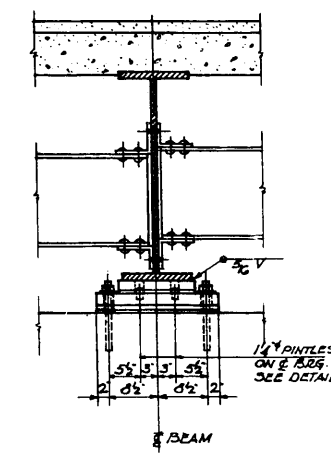
SECTION AT PIER 1



SECTION C-C



SECTION AT PIER 2



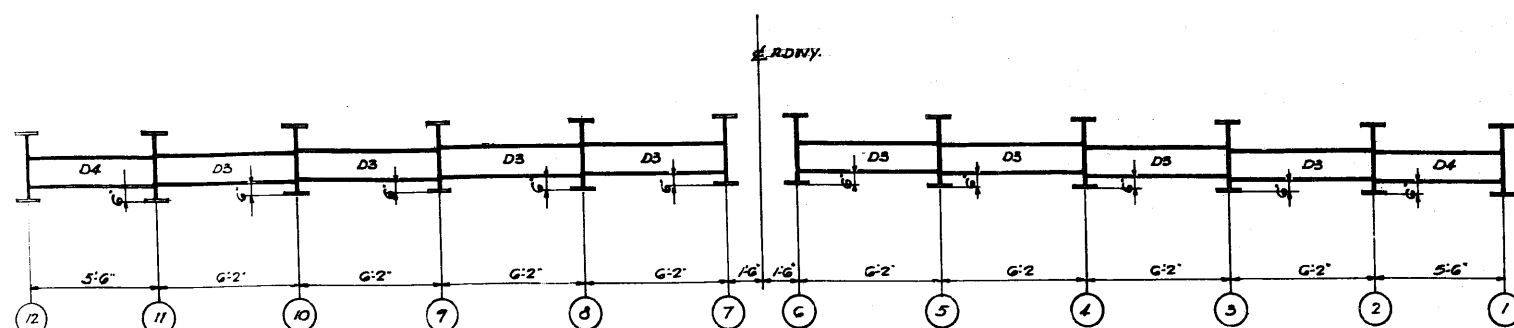
SECTION D-D

NOTE:
TOTAL ESTIMATED WEIGHT OF BEARINGS AND ANCH. BOLTS - 20,330 LBS

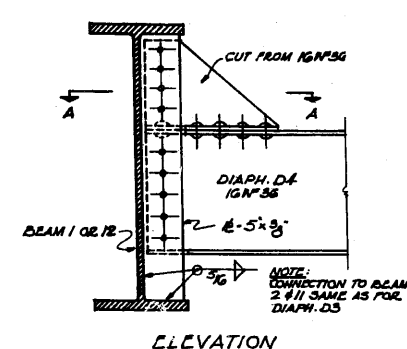
STRUCTURAL STEEL PLAN & DETAILS
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U12G1(75)
F.A. RTE 131 SECTION 3B-13, 3F-13
COOK COUNTY

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET CHICAGO-ILLINOIS 275C-6

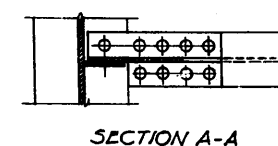
FEDERAL AID ROUTE No.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
131	3B-15	COOK	59	7
STA.		TO STA.		
FED. ROAD DIV. NO. 4		ILLINOIS FED. AID PROJECT U120(75)		



TYP. ELEVATION OF DIAPHRAGMS D3 & D4
SCALE: 1/4"=1'-0"

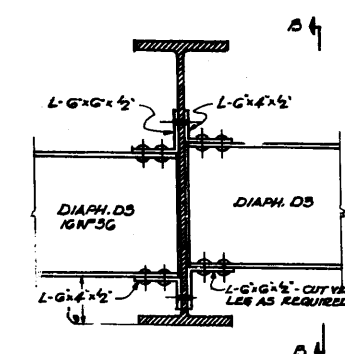


ELEVATION

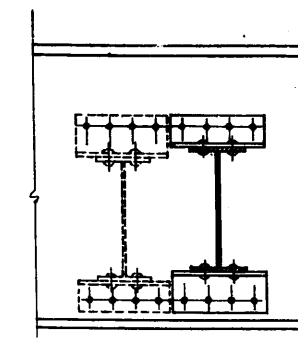


SECTION A-A

DIAPHRAGM D4

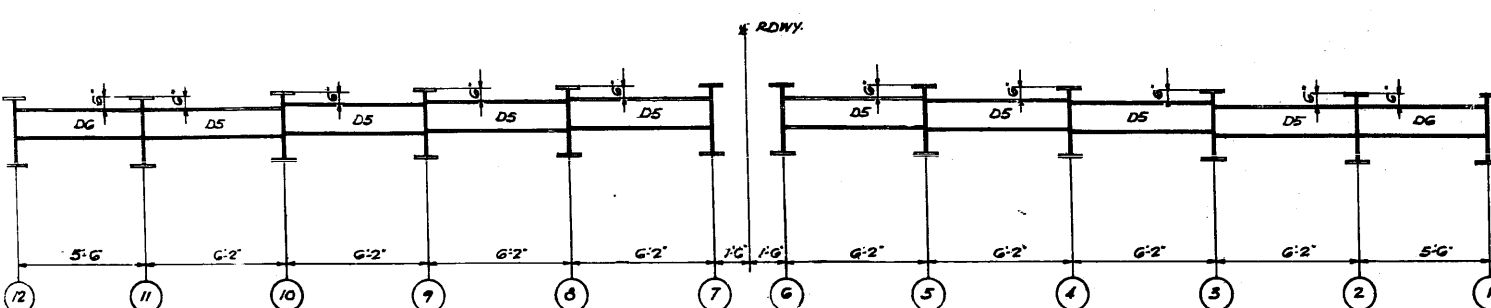


ELEVATION

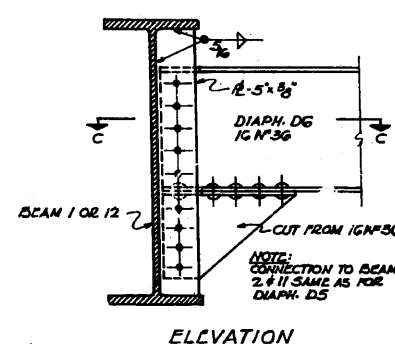


SECTION B-B

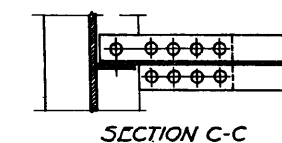
DIAPHRAGM D3



TYP. ELEVATION OF DIAPHRAGMS D5 & D6
SCALE: 1/4"=1'-0"

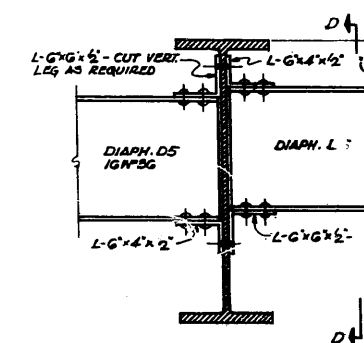


ELEVATION

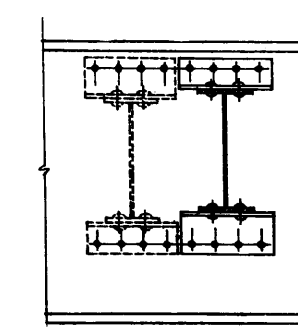


SECTION C-C

DIAPHRAGM D6

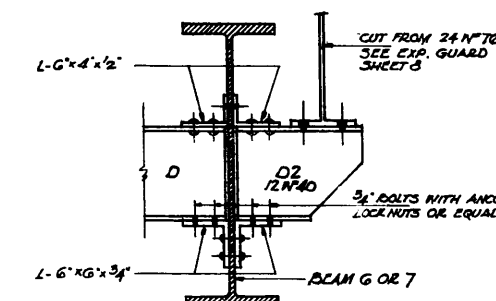


ELEVATION



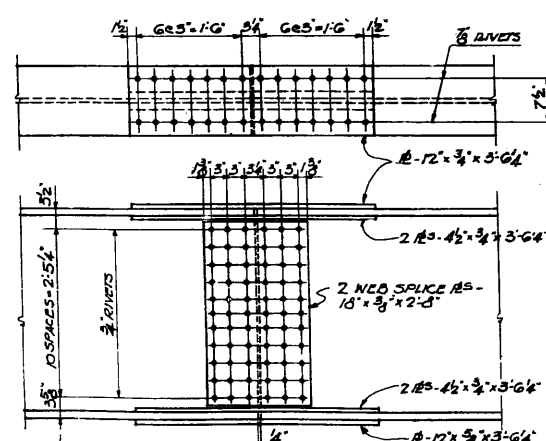
SECTION D-D

DIAPHRAGM D5

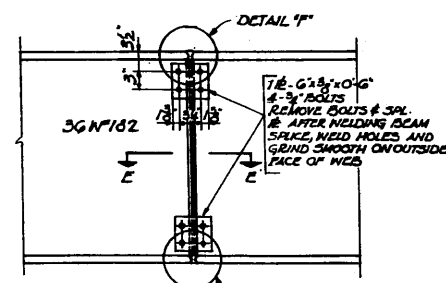


DIAPHRAGM D2

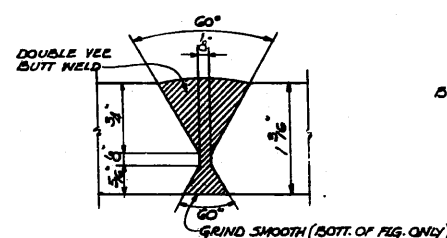
DIAPHRAGM DETAILS
SCALE: 1/4"=1'-0"



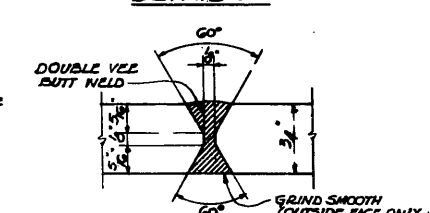
SPLICE DETAIL FOR BEAMS 2 TO 11 INCL.
SCALE: 3/4"=1'-0"



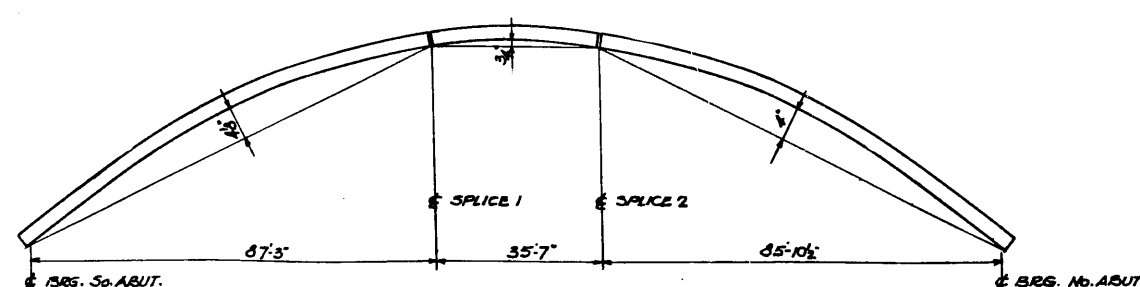
FIELD SPLICE DETAIL FOR BEAMS 1 & 12
SCALE: 3/4"=1'-0"



DETAIL 'F'



SECTION E-E



CAMBER DIAGRAM

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET CHICAGO-ILLINOIS 275C-7

STRUCTURAL STEEL DETAILS
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U120(75)
P.A. RTE. 131 SECTION 3B-15, 3F-13
COOK COUNTY

[illegible]

12 SPACES @ 2'-0" - 2'-3"

12 SPACES @ 2'-0" - 2'-5"

SCALE: 3/8" = 1'-0"

PLAN AT SOUTH ABUTMENT

[illegible]

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



TEMP	NO. ABS.	SO. ABS.
110°	5'4"	4'8"
90°	5'3"	5'8"
70°	5'2"	5'3"
50°	5'8"	5'5"
30°	5'3"	5'7"
10°	5'7"	6'4"

TABLE OF 'X' DIMENSIONS

BEAM	2	3	4	5	6	7	8	9	10	11
NO. ABUT.	14 $\frac{1}{2}$	15 $\frac{3}{4}$	16 $\frac{1}{4}$	17 $\frac{1}{8}$	17 $\frac{1}{4}$	21 $\frac{1}{2}$	20 $\frac{1}{2}$	19	17	14
SO. ABUT.	14 $\frac{1}{2}$	17	19	20 $\frac{1}{2}$	21 $\frac{1}{2}$	17 $\frac{1}{4}$	17 $\frac{1}{8}$	16 $\frac{1}{4}$	15 $\frac{3}{4}$	14

NOTE:

ROADWAY EXPANSION DEVICE SHALL BE FABRICATED AND ERCTED TO CONFORM TO ROADWAY CROWN. COPPER BEARING STEEL (A.S.T.M. A1 WITH 0.2% COPPER ADDED) SHALL BE USED FOR 1/4" & 3/8" & 1/2" & 3/4" & 1" CHALL. ROUNDO AND 1 1/4" & 1 1/2" & 2" BARS.

ASSEMBLE IN SHOP FOR INSPECTION.

ALL SURFACES INACCESSIBLE AFTER ERECTION SHALL RECEIVE TWO SHP COATS OF RED LEAD PAINT EXCEPT 2" & 3" ANCHORS. EXPANSION DEVICES ARE INCLUDED FOR PAYMENT AS STRUCTURAL STEEL. ESTIMATED WEIGHT FOR 2 COMPLETE DEVICES IS 17,000 LBS.

INTRUDING MEDIAN DEVICES

EXPANSION GUARD DETAILS
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U1261(75)
F.A. RTE. 131 SECTION 38-13, 3F-13
COOK COUNTY

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET CHICAGO-ILLINOIS 295C-8

BACK OF ABUT. 1

20'-0"

25 SPACES @ 8'-11" = 205'-1"

57'-6" S.E. WING
30'-3" S.W. WING

2" OPEN JOINT

57'-6" N.E. WING
47'-5" N.W. WING

2" OPEN JOINT

57'-6" N.E. WING
47'-5" N.W. WING

6 SPACES @ 8'-5 1/2" = 50'-9"
LENGTH OF RAIL ON E = 52'-0 1/2"

6 SPACES @ 8'-0 1/2" = 48'-3"
LENGTH OF RAIL ON E = 30'-1 1/2"

6 SPACES @ 8'-7" = 51'-0"
LENGTH OF RAIL ON E = 53'-5 1/2"

6 SPACES @ 7'-11" = 47'-6"
LENGTH OF RAIL ON E = 47'-5"

5" 1/8" CLOSURE PLATE

ABUT. 1

PIER 1

PIER 2

ABUT. 2

NOTE:
SEE SHEET No. 5 FOR LARGE SCALE DETAILS
OF CORNERS.

FEDERAL AID ROUTE No.	SEC.	COUNTY	TOTAL SHEETS	SHEET No.
131	38-13	COOK	39	9

STA. TO STA.

FED. ROAD DIV. NO. 4 ILLINOIS FED. AID PROJECT W 261 (75)

BACK OF ABUT. 1

20'-0"

25 SPACES @ 8'-11" = 205'-1"

57'-6" S.E. WING
30'-3" S.W. WING

2" OPEN JOINT

57'-6" N.E. WING
47'-5" N.W. WING

2" OPEN JOINT

57'-6" N.E. WING
47'-5" N.W. WING

6 SPACES @ 8'-5 1/2" = 50'-9"
LENGTH OF RAIL ON E = 52'-0 1/2"

6 SPACES @ 8'-0 1/2" = 48'-3"
LENGTH OF RAIL ON E = 30'-1 1/2"

6 SPACES @ 8'-7" = 51'-0"
LENGTH OF RAIL ON E = 53'-5 1/2"

6 SPACES @ 7'-11" = 47'-6"
LENGTH OF RAIL ON E = 47'-5"

5" 1/8" CLOSURE PLATE

ABUT. 1

PIER 1

PIER 2

ABUT. 2

NOTE:
SEE SHEET No. 5 FOR LARGE SCALE DETAILS
OF CORNERS.

FEDERAL AID ROUTE No.	SEC.	COUNTY	TOTAL SHEETS	SHEET No.
131	38-13	COOK	39	9

STA. TO STA.

FED. ROAD DIV. NO. 4 ILLINOIS FED. AID PROJECT W 261 (75)

BACK OF ABUT. 1

20'-0"

25 SPACES @ 8'-11" = 205'-1"

57'-6" S.E. WING
30'-3" S.W. WING

2" OPEN JOINT

57'-6" N.E. WING
47'-5" N.W. WING

2" OPEN JOINT

57'-6" N.E. WING
47'-5" N.W. WING

6 SPACES @ 8'-5 1/2" = 50'-9"
LENGTH OF RAIL ON E = 52'-0 1/2"

6 SPACES @ 8'-0 1/2" = 48'-3"
LENGTH OF RAIL ON E = 30'-1 1/2"

6 SPACES @ 8'-7" = 51'-0"
LENGTH OF RAIL ON E = 53'-5 1/2"

6 SPACES @ 7'-11" = 47'-6"
LENGTH OF RAIL ON E = 47'-5"

5" 1/8" CLOSURE PLATE

ABUT. 1

PIER 1

PIER 2

ABUT. 2

NOTE:
SEE SHEET No. 5 FOR LARGE SCALE DETAILS
OF CORNERS.

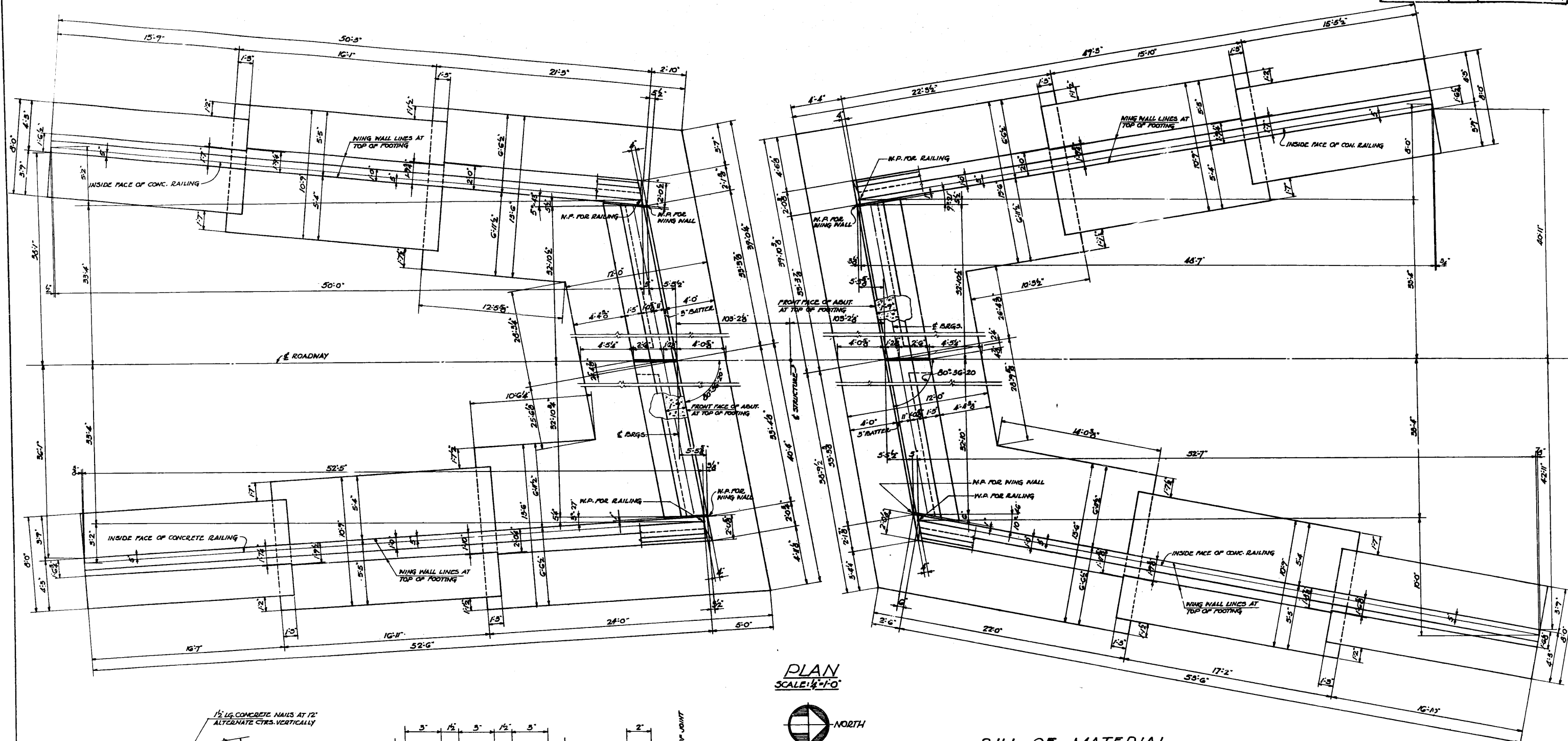
FEDERAL AID ROUTE No.	SEC.	COUNTY	TOTAL SHEETS	SHEET No.
131	38-13	COOK	39	9

STA. TO STA.

FED. ROAD DIV. NO. 4 ILLINOIS FED. AID PROJECT W 261 (75)



FEDERAL AID ROUTE NO.	F.S.B.	COUNTY	TOTAL SHEETS	SHEET NO.
131	3B-13	COOK	39	10
STA.	TO STA.			
FED. ROAD DIV. NO. 4	ILLINOIS	FED. AID PROJECT U1261(75)		



PLAN
SCALE: 1/4" = 1'-0"

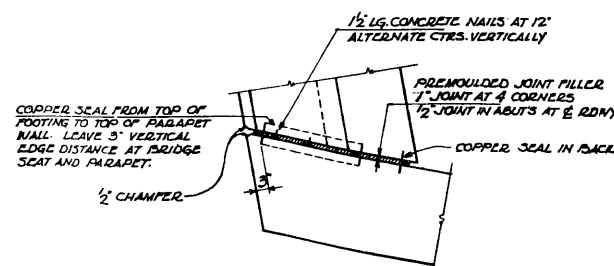


BILL OF MATERIAL FOR ABUTMENTS AND WING WALLS

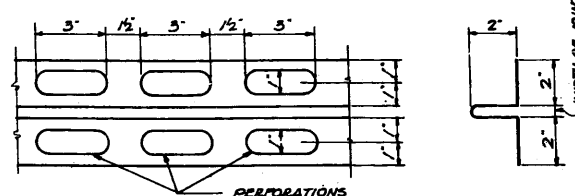
ITEM	UNIT	No. ABUT.	So. ABUT.
CLASS X CONCRETE	CU.YDS.	301.9	305.8
REINFORCEMENT BARS	lbs.	28,430	28,580
POROUS GRANULAR EMBANKMENT	CU.YDS.	144	148
FIVE UNDERDRAINS	LIN.FT.	171	171
CLASS A EXCAVATION FOR STRUCTURES	CU.YDS.	122.5	118.5
CRESSOTED PILES 36' LONG	LIN.FT.	3564	3456
CRESSOTED PILES 40' LONG	LIN.FT.	1040	1080
CRESSOTED PILES 44' LONG	LIN.FT.	704	704
TEST PILES	EACH	2	2
HANDRAIL CONCRETE	CU.YDS.	14.7	14.7

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET CHICAGO-ILLINOIS 295C-10

PLAN OF ABUTMENTS & WING WALLS
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U1261(75)
F.A.R.T.E. 131 SECTION 3B-13
COOK COUNTY



TYPICAL CORNER JOINT
JOINT IN ABUTMENTS AT E. RDNY. SIMILAR



DETAIL OF COPPER SEAL

NOTE:
COPPER SEAL SHALL BE PERFORATED AND BE 16 OZ. COLD
ROLLED ANNEALED COPPER. SPLICES SHALL BE SOLDERED
OR BRAZED.

[illegible]

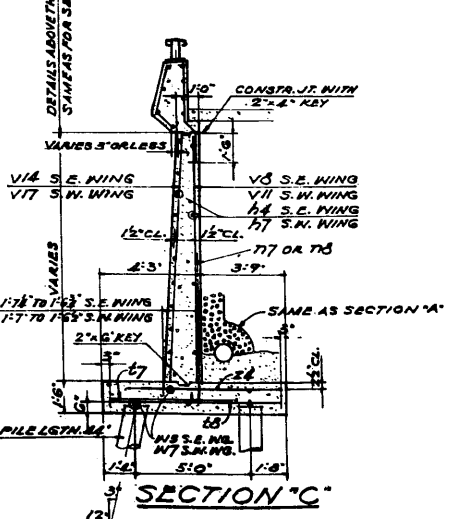
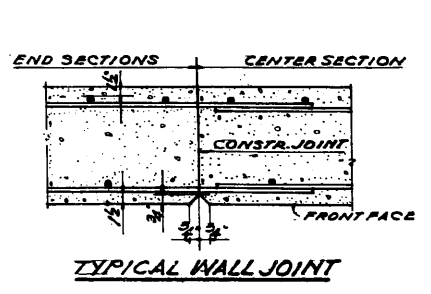
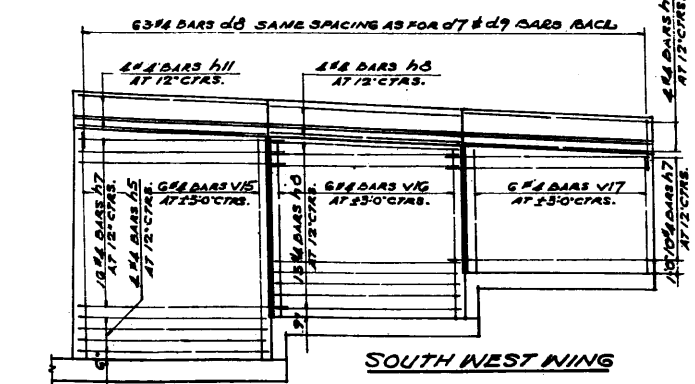
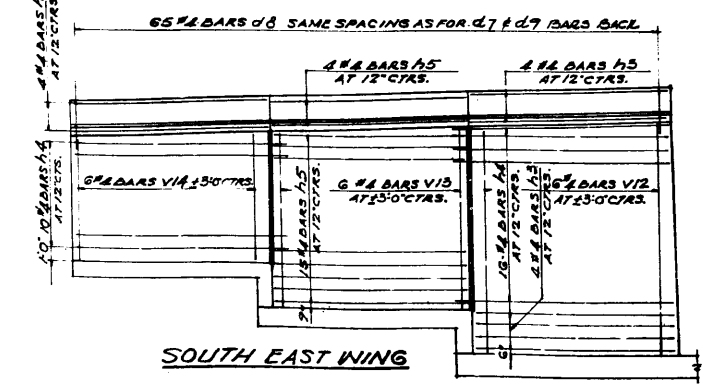
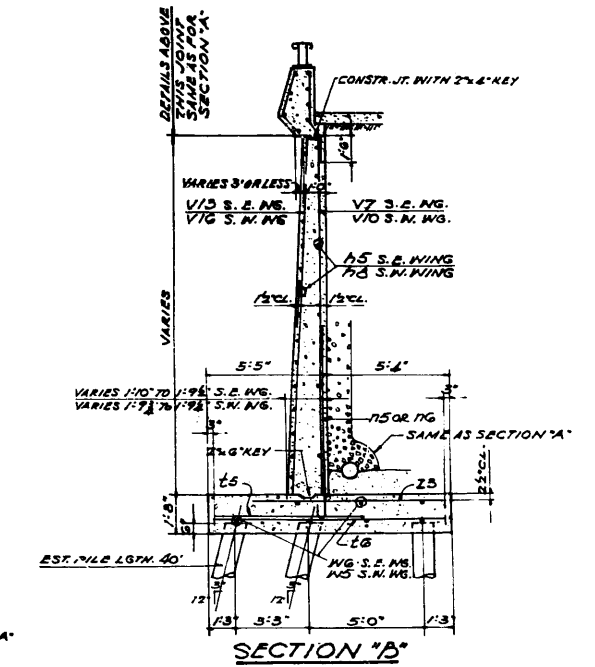
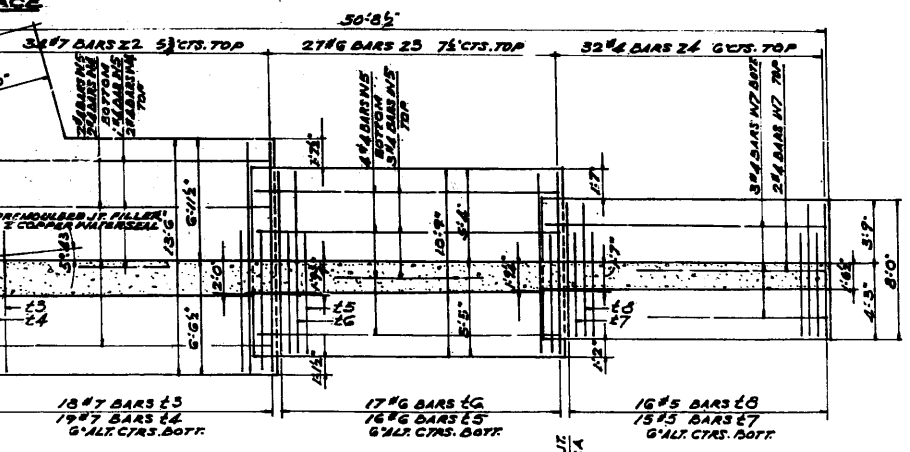
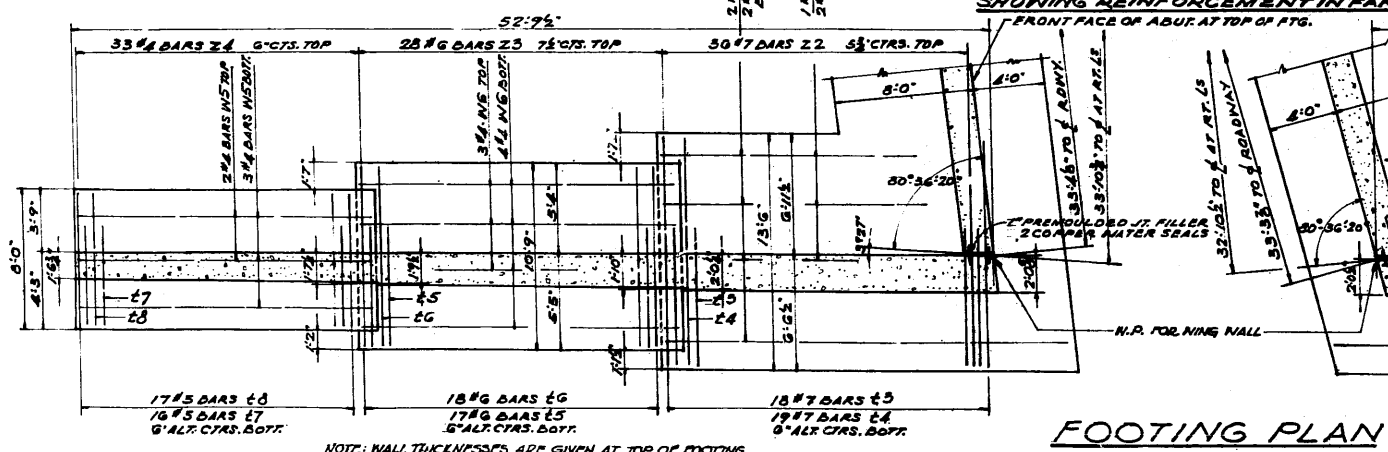
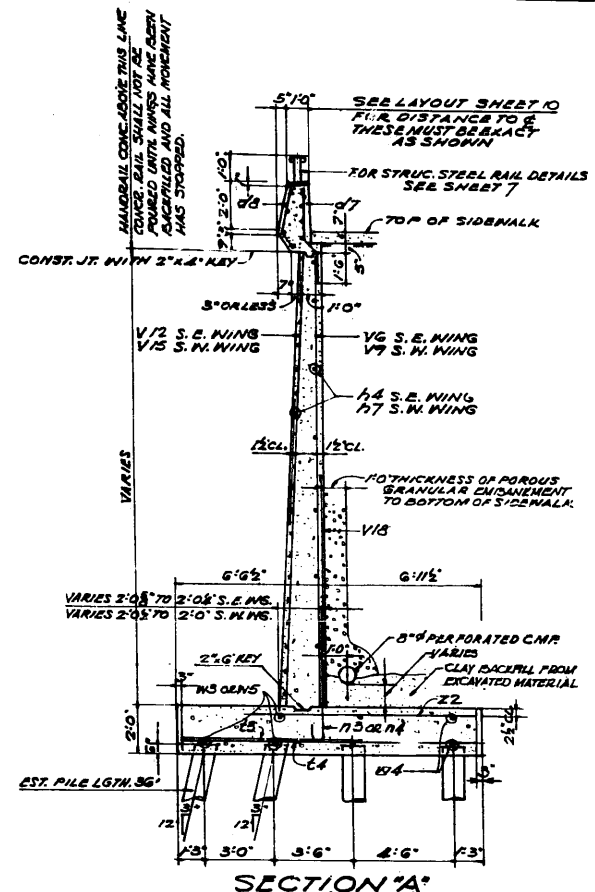
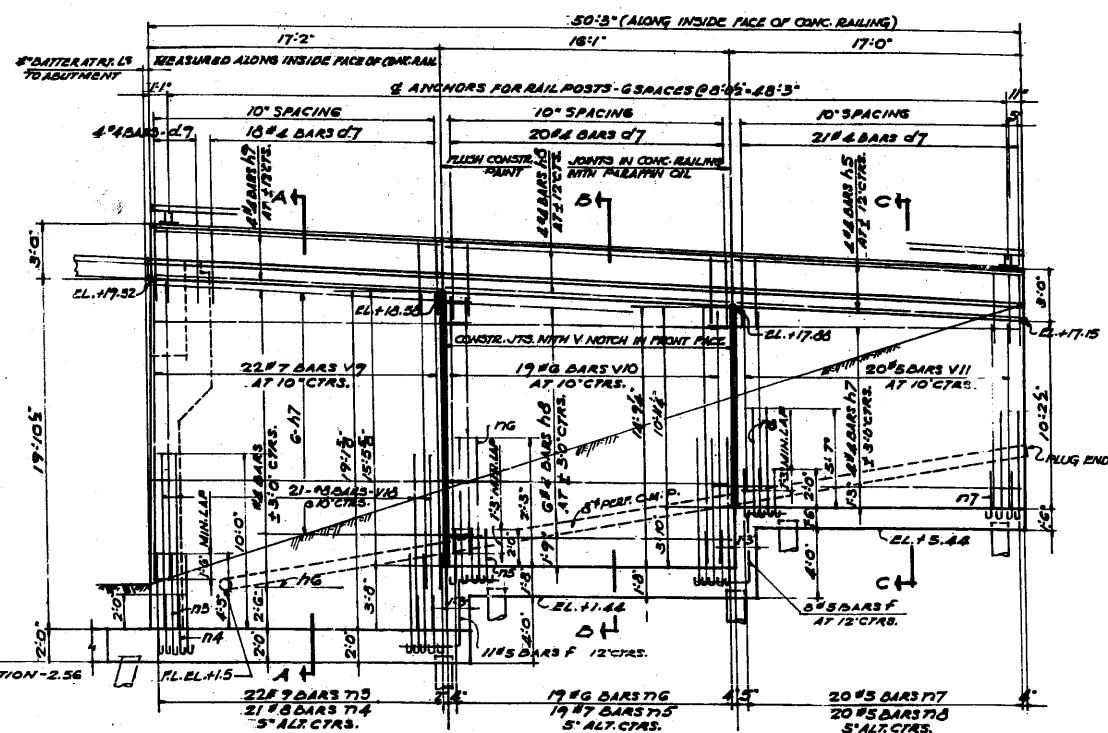
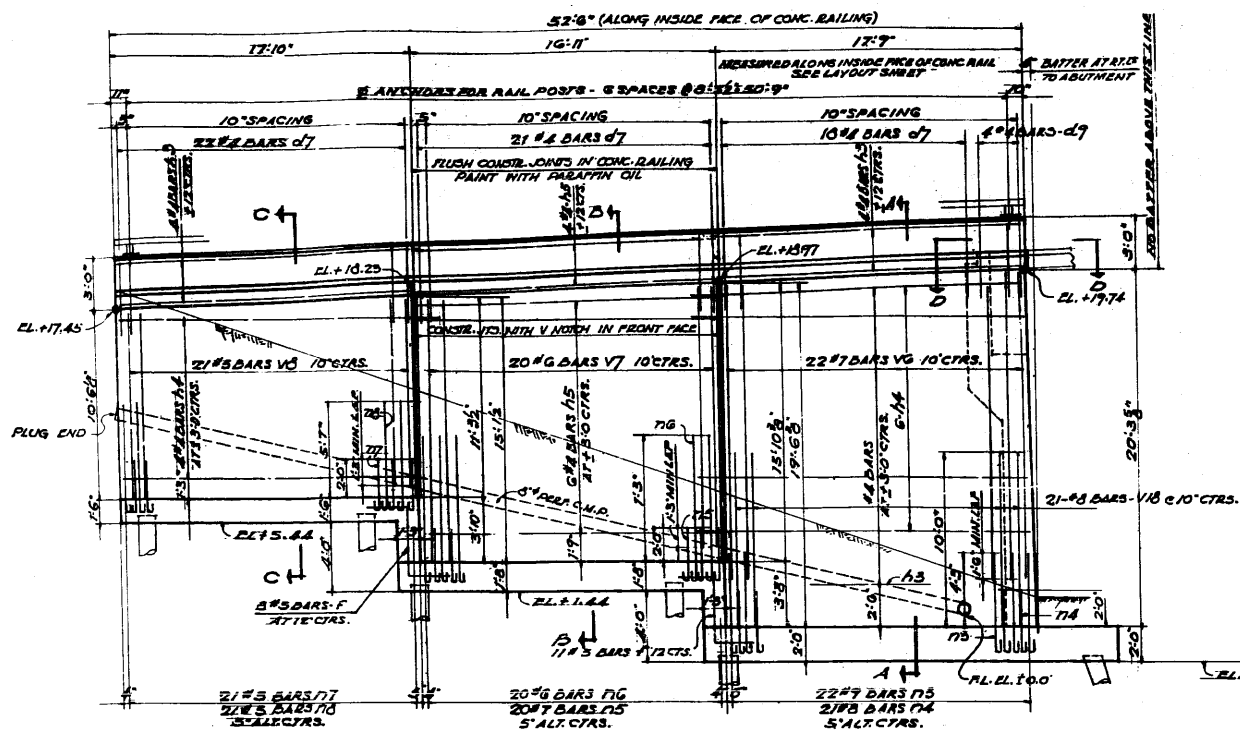
Structural drawing of a bridge deck showing reinforcement details. The drawing includes various reinforcement bars (e.g., 2#4 BARS, 3#4 BARS, 4#4 BARS) and their spacing (e.g., @ 12" CTRS., @ 10" CTRS.). It also shows dimensions (e.g., 20'-0", 20'-9", 20'-4") and notes (e.g., "CONSTR. JOINT - SEE SHEET NO. 3", "EL. CROWN OF RDWAY AT BACK OF ABUT. = +20.00"). The drawing is divided into sections by vertical lines, and the reinforcement is shown in cross-section and plan view.

[illegible]

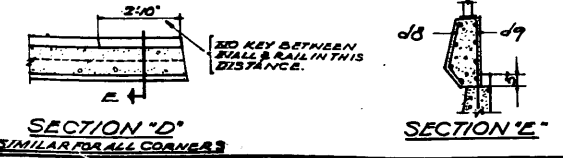
NOTE:
FOR DETAIL OF COPPER SEAL SEE SHEET NO.
FOR WATERPROOFING OF BACK OF ABUTMENT
SEE SPECIAL PROVISIONS
ALL BARS SHALL BE LAPPED 1:3 AT SPLICES
UNLESS OTHERWISE SHOWN
N.F. = NEAR FACE
F.F. = FAR FACE
BARS NOTED THUS - 2 x 3/4 ETC. - INDICATE 2 LINES OF
BARS WITH 3 LENGTHS OF BAR PER LINE.

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET CHICAGO-ILLINOIS 295C-12

FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
131	35-13	COOK	39	13
STA.	TO STA.			
ILL. ROAD DIV. NO. 4	ILLINOIS FED. AID PROJECT U1261(75)			



ELEVATION SHOWING REINFORCEMENT IN FRONT FACE

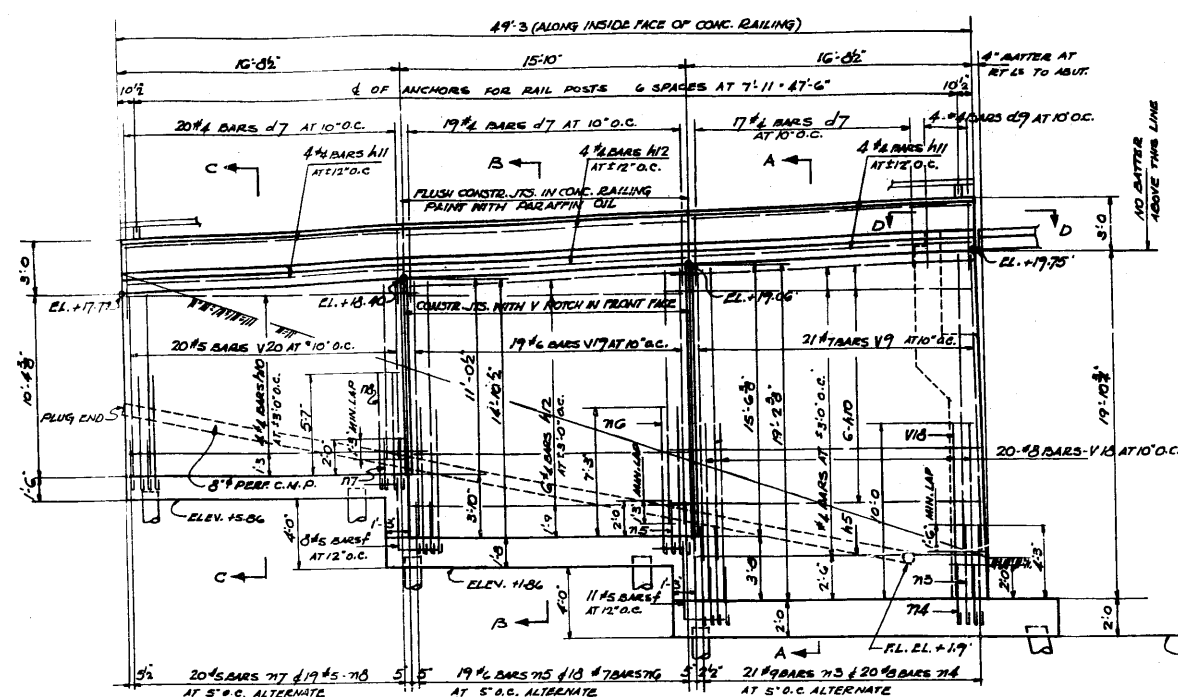


NOTE:
END SECTIONS OF WINGS SHALL BE POURED FIRST
AND SUFFICIENT TIME BE GIVEN FOR THEM TO CURE
AND SHRINK BEFORE MIDDLE SECTIONS ARE POURED.
FOR WATERPROOFING BACK FACE OF WING WALLS
SEE SPECIAL PROVISIONS.
ALL PILES CROSSED BY TIMBER - CAPACITY 20 TONS.

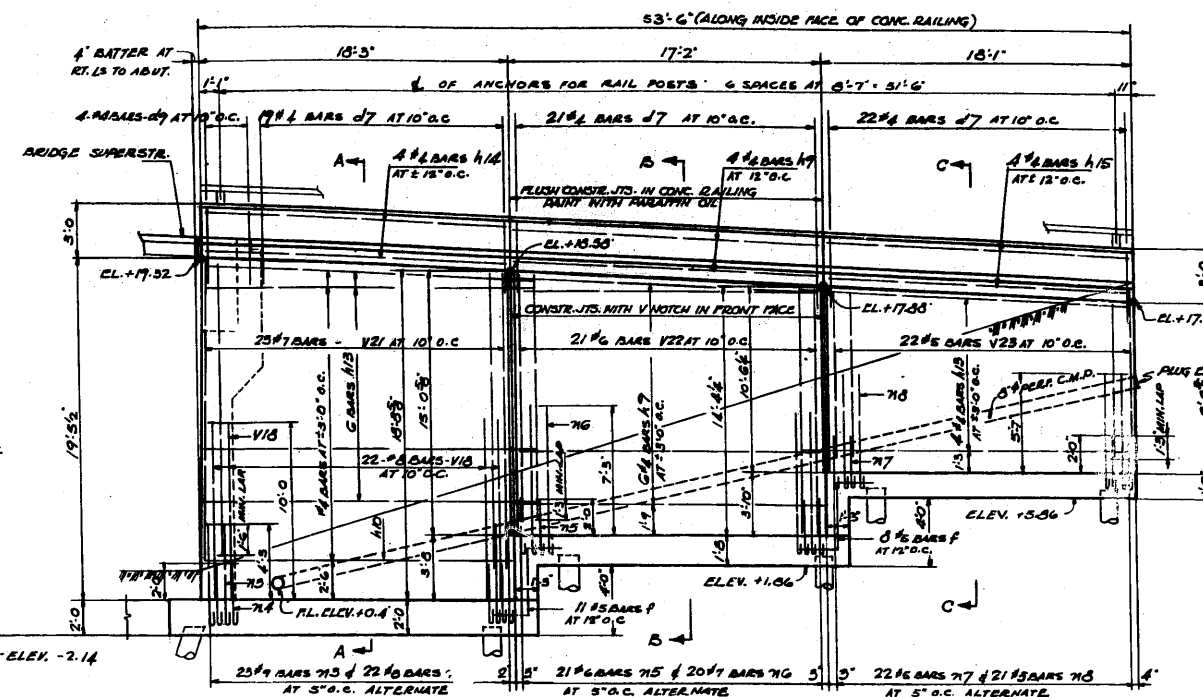
ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET CHICAGO-ILLINOIS 295C-13

REINFORCEMENT-WING WALLS So ABUT.
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U1261(75)
F.A.R.T.E. 131 SECTION 35-13
COOK COUNTY

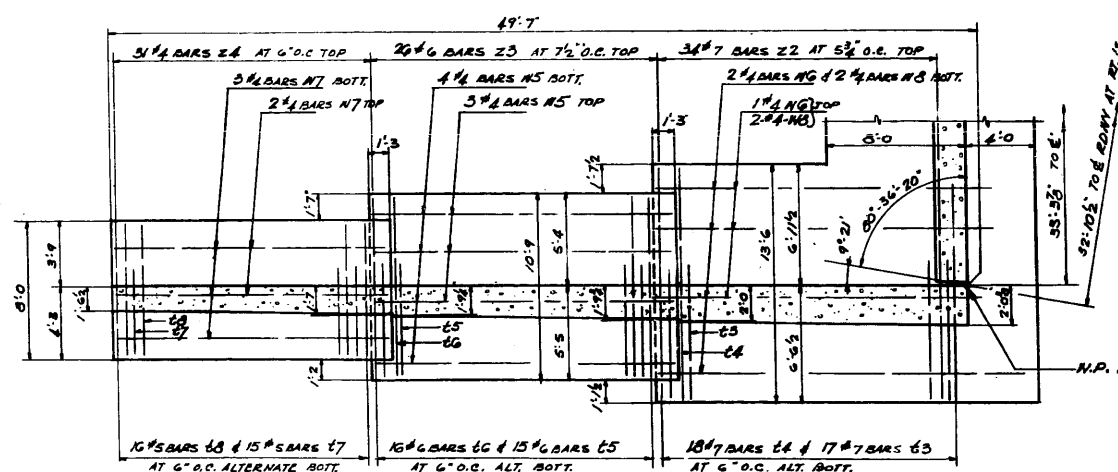
FEDERAL AID ROUTE No.	SEC.	COUNTY	TOTAL SHEET	SHEET No.
131	3B-13	COOK	39	14
STA.		TO STA.		
FED. ROAD DIV. No. 4	ILLINOIS	FED. AID PROJECT 41261		



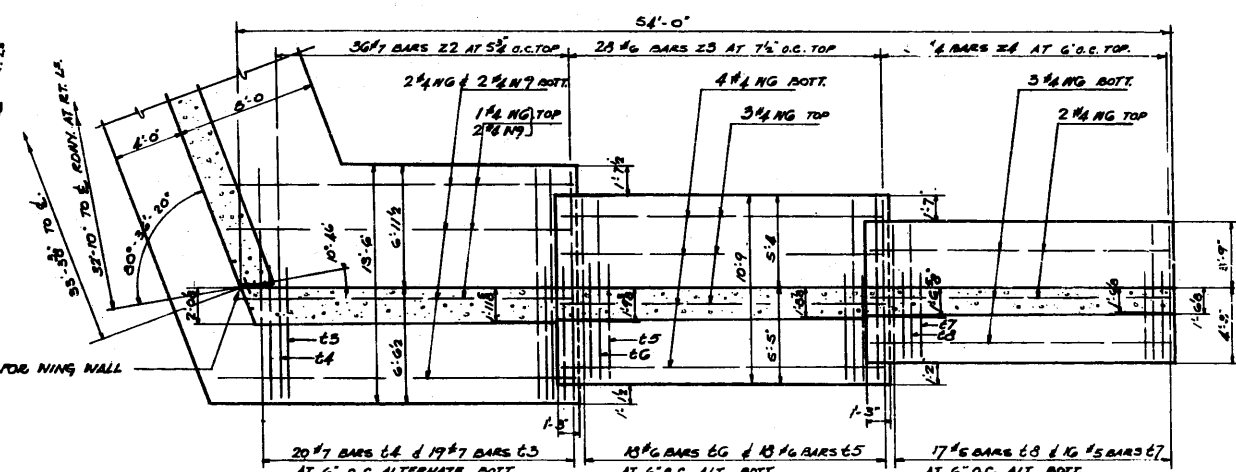
N. W. WING



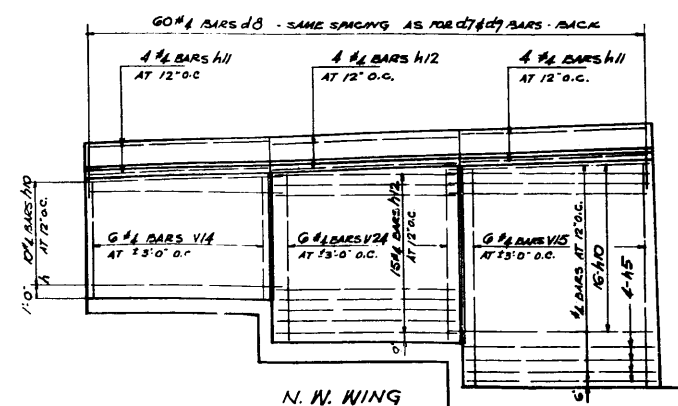
A. E. WING



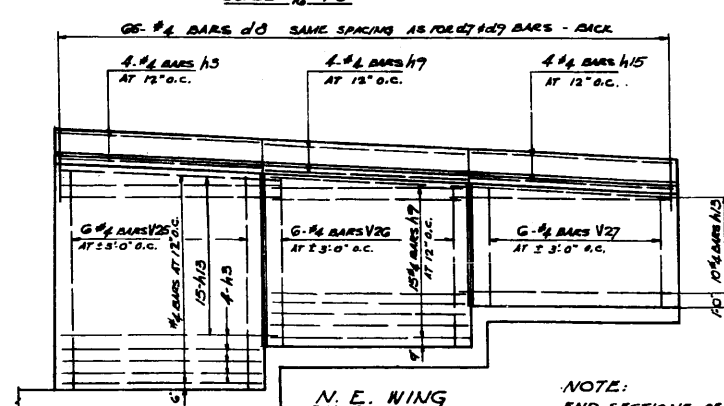
NOTE: WALL THICKNESSES ARE GIVEN AT TOP OF FOOTINGS



FOOTING PLAN SHOWING REINFORCEMENT
SCALE: $\frac{3}{8}'' = 1'-0''$



N. W. WING



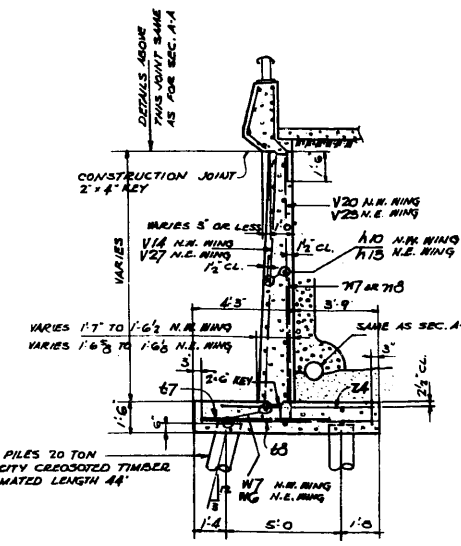
N. E. WING

ELEVATION SHOWING REINFORCEMENT - FRONT FACE
SCALE: $\frac{1}{4}" = 1'-0"$

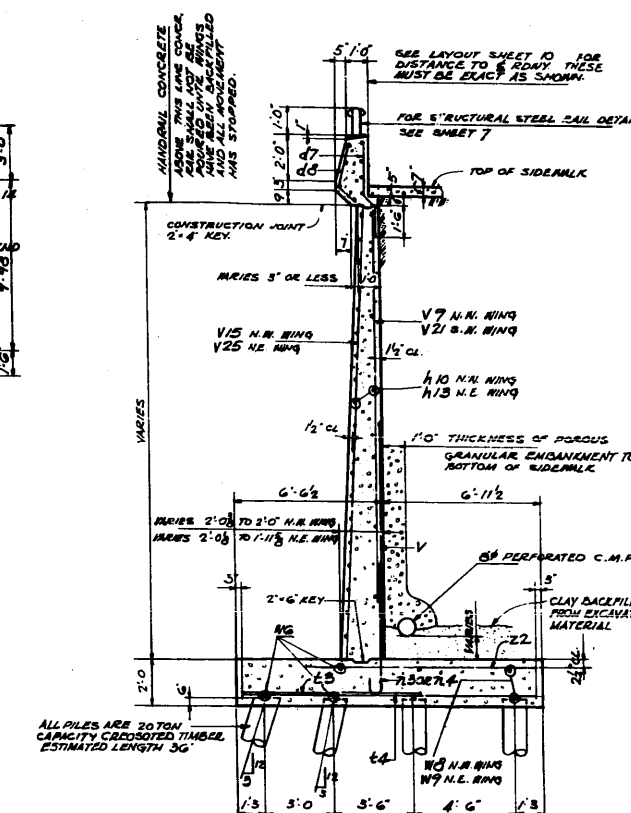
NOTE:

NOTE:
END SECTIONS OF WINGS SHALL BE POURED
FIRST AND SUFFICIENT TIME BE GIVEN FOR
THEM TO CURE OUT AND SHRINK BEFORE
MIDDLE SECTIONS ARE POURED.

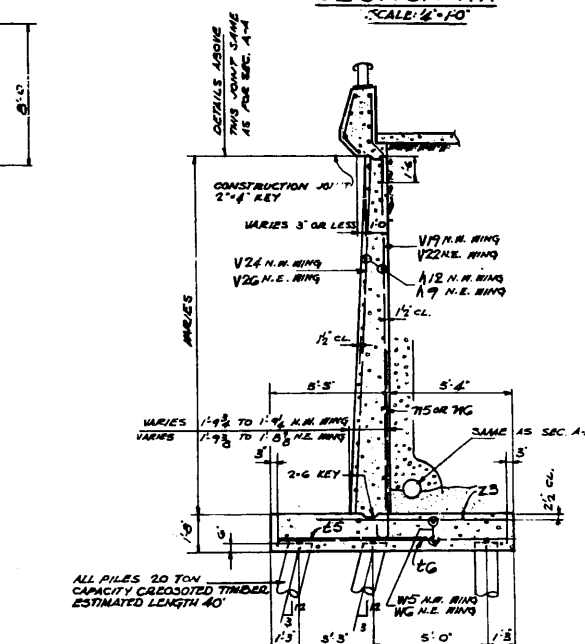
MIDDLE SECTIONS ARE POURED.
SEE SEC. D AND SEC. E ON SHEET 13
FOR DETAIL OF SIDEWALK NOTCH IN WING WALL
NEAR ABUTMENTS; ALSO SEE DETAIL OF V-NOTCH
AND CONSTRUCTION JOINT.
FOR WATER PROOFING BACK FACE OF WING
WALLS - SEE SPECIAL PROVISIONS.



SECTION C-C
SCALE: 1/4"=1'-0"



SECTION A-A
SCALE: 1/4" = 1'-0"

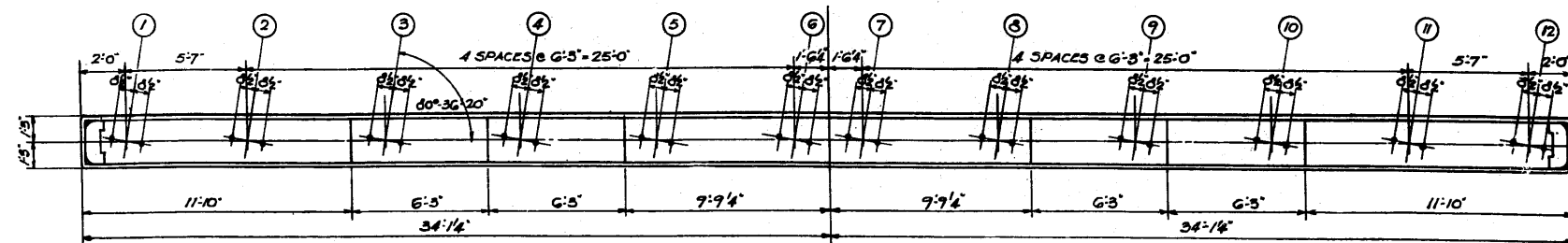


SECTION B-
SCALE: 1/2"=1'-0"

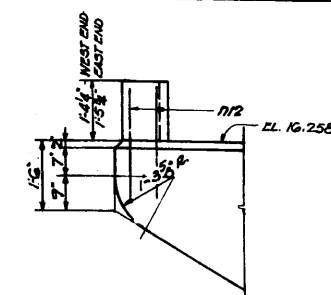
REINFORCEMENT - WING WALLS No. ABUTM
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U1261(75)
F.A. RTE. 131 SECTION 3B-13
COOK COUNTY

ALFRED BENESCH & ASSOCIATES - CONSULTING ENGINEERS
30 EAST ADAMS STREET CHICAGO, ILLINOIS 295C-14

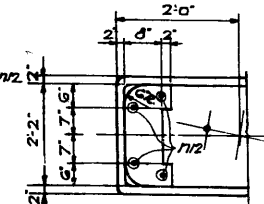
FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
131	3B-13	COOK	59	15
STA.		TO STA.		
FED. ROAD DIV. NO. 4		ILLINOIS FED. AID PROJECT U1 261(75)		



PLAN OF TOP

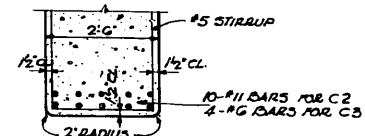


ELEVATION

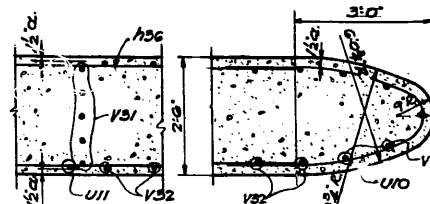


PLAN

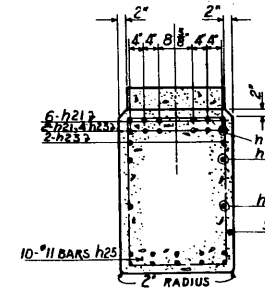
DETAIL 'A'



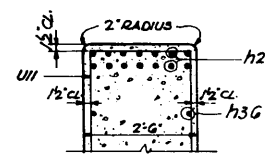
SECTIONS C2 & C3



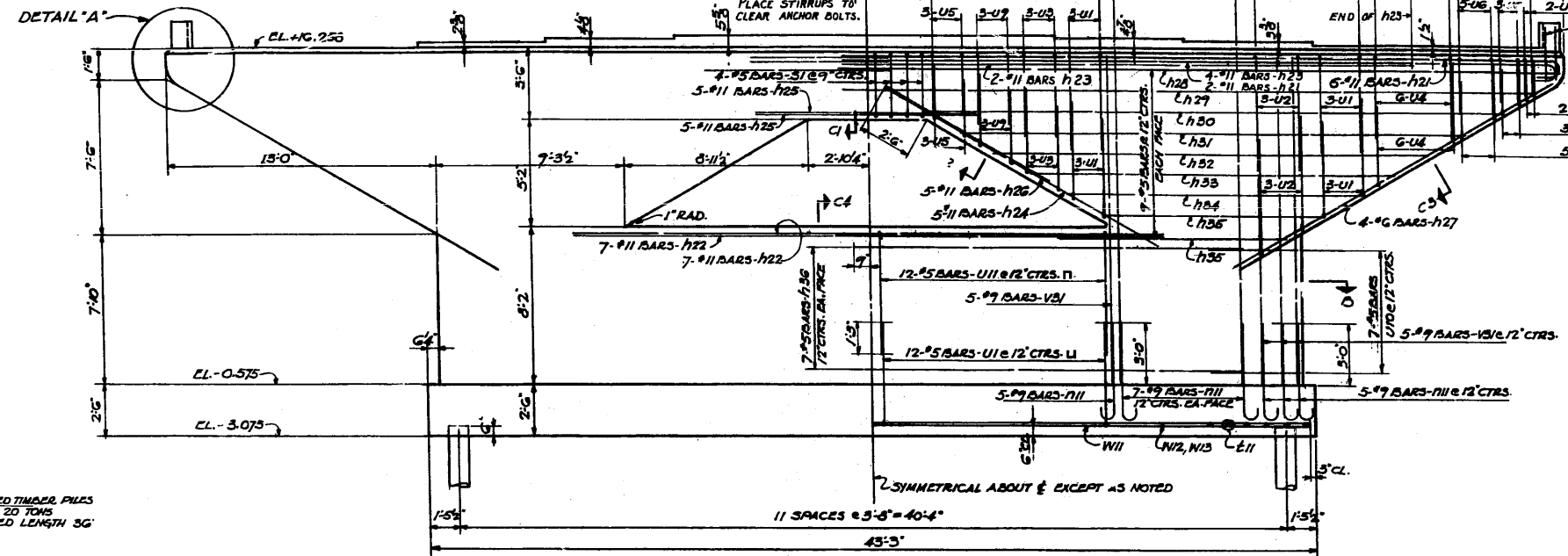
SECTION B



SECTION C1

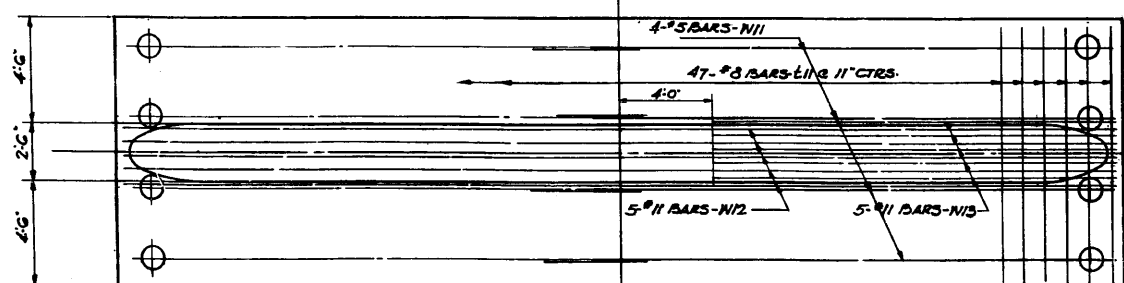


SECTION C4



SOUTH ELEVATION

SCALE: 1/4"=1'-0"



FOOTING PLAN

END VIEW

BILL OF MATERIAL

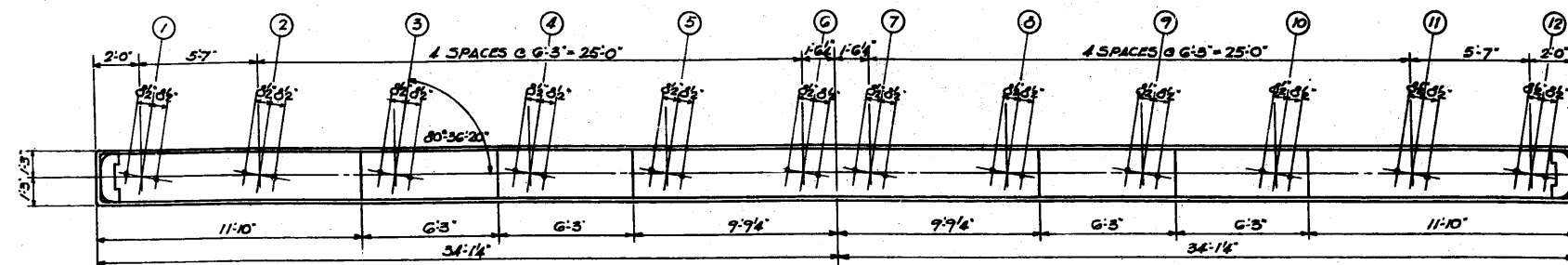
ITEM	UNIT	QUANT.
CLASS X CONCRETE	CU. YDS.	117.5
REINFORCEMENT BARS	LBS.	19,385
CREOSOTED TIMBER PILES (36' LONG)	LIN. FT.	172.8
TEST PILES	EACH	ONE
CLASS A EXCAVATION "OR" STRUCTURES	CU. YDS.	1.41

NOTE:
PIER SHALL BE POURED IN ONE CONTINUOUS
OPERATION ABOVE TOP OF FOOTING

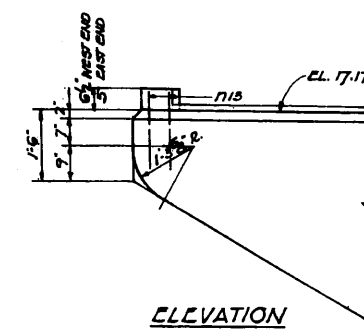
PIER No. 1
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U1 261(75)
F.A. RTE. 131 SECTION 3B-13
COOK COUNTY

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET CHICAGO-ILLINOIS 295C-15

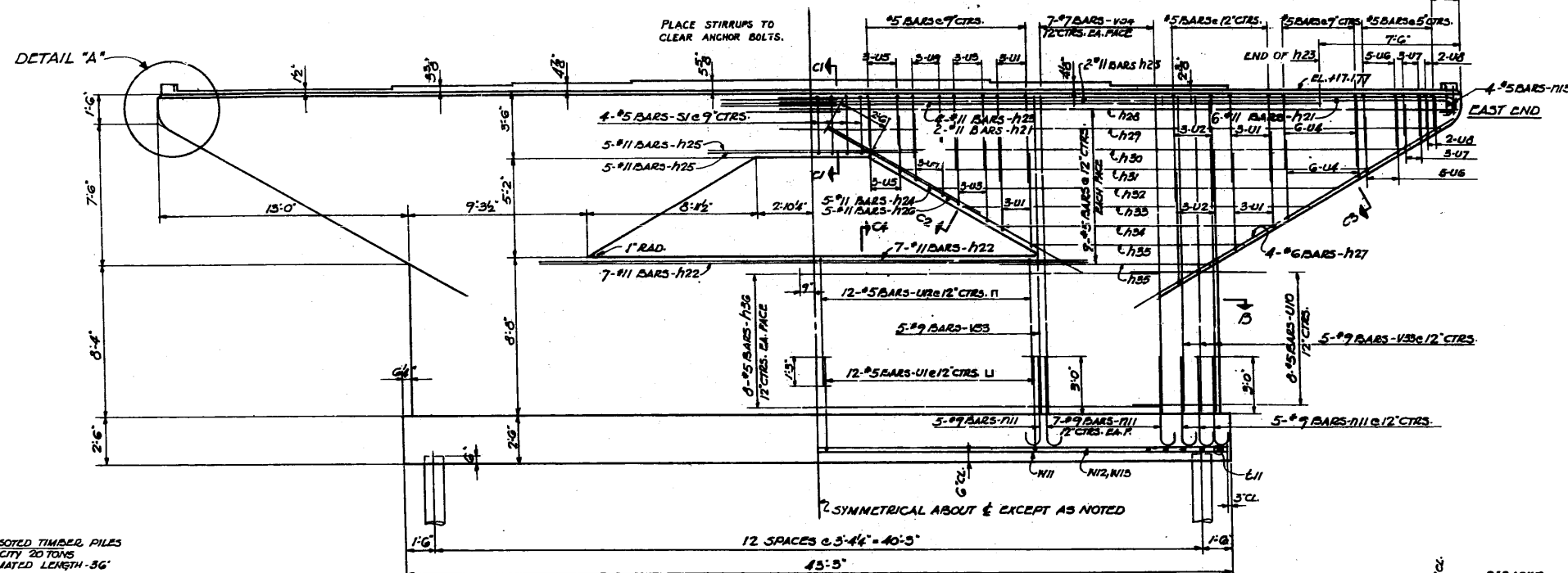
FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
131	3B-13	COOK	39	16
STA.	TO STA.			
FED. ROAD DIV. NO. 4	ILLINOIS FED. AID PROJECT U1261 (75)			



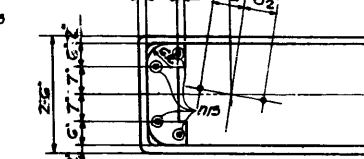
PLAN OF TOP



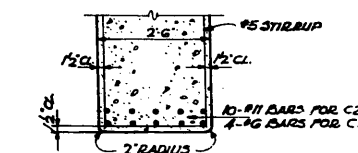
ELEVATION



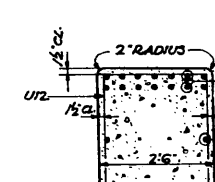
SOUTH ELEVATION
SCALE: 1/4"=1'-0"



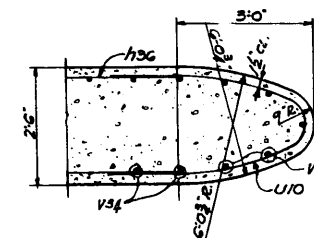
PLAN
DETAIL 'A'



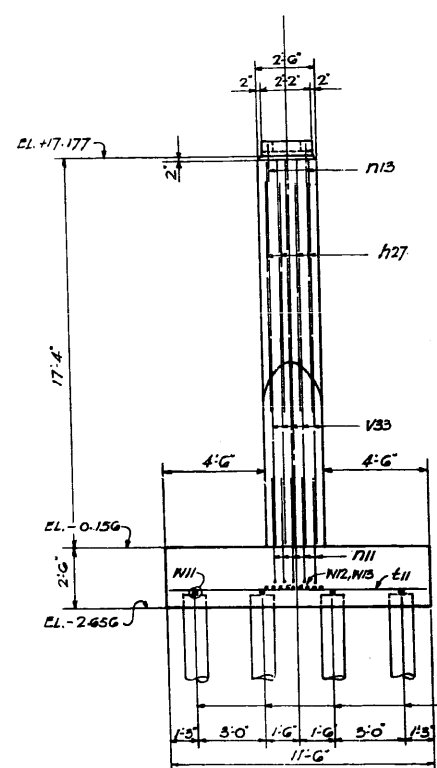
SECTION C2 & C3



SECTION C4



SECTION B

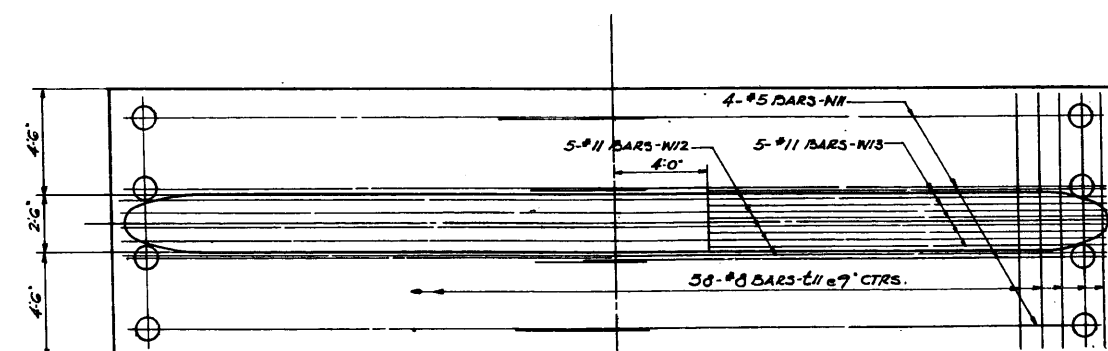


END VIEW

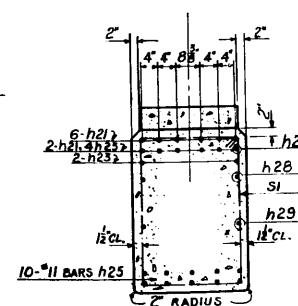
CREOSOTED TIMBER PILES
CAPACITY 20 TONS
ESTIMATED LENGTH 36'

BILL OF MATERIAL

ITEM	UNIT	QUANT.
CLASS X CONCRETE	CU. YDS.	117.2
REINFORCEMENT BARS	LBS.	19,885
CREOSOTED TIMBER PILES (36' LONG)	LN. FT.	1872
TEST PILES	EACH	ONE
CLASS A EXCAVATION FOR STRUCTURES	CU. YDS.	1.89



FOOTING PLAN



SECTION C1

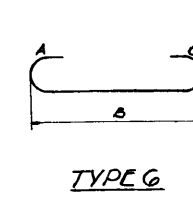
NOTE:
PIER SHALL BE POURED IN ONE CONTINUOUS OPERATION
ABOVE TOP OF FOOTING.

PIER No. 2
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U1261(75)
F.A. RTE. 131 SECTION 3B-13
COOK COUNTY

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET CHICAGO-ILLINOIS 295C-16

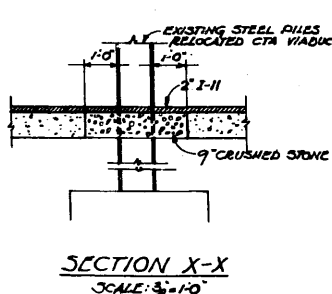
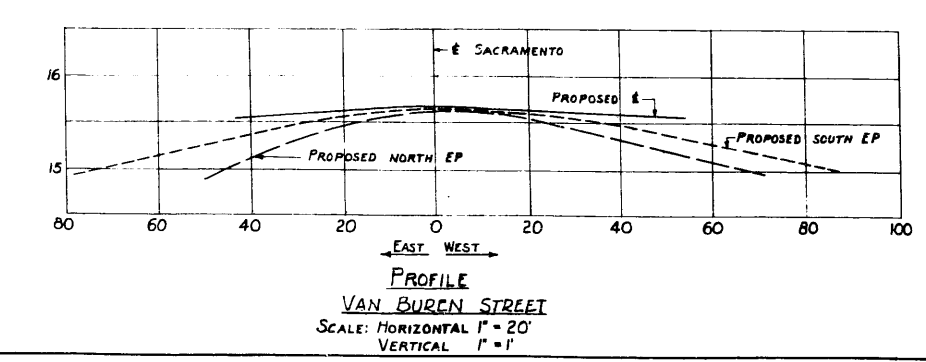
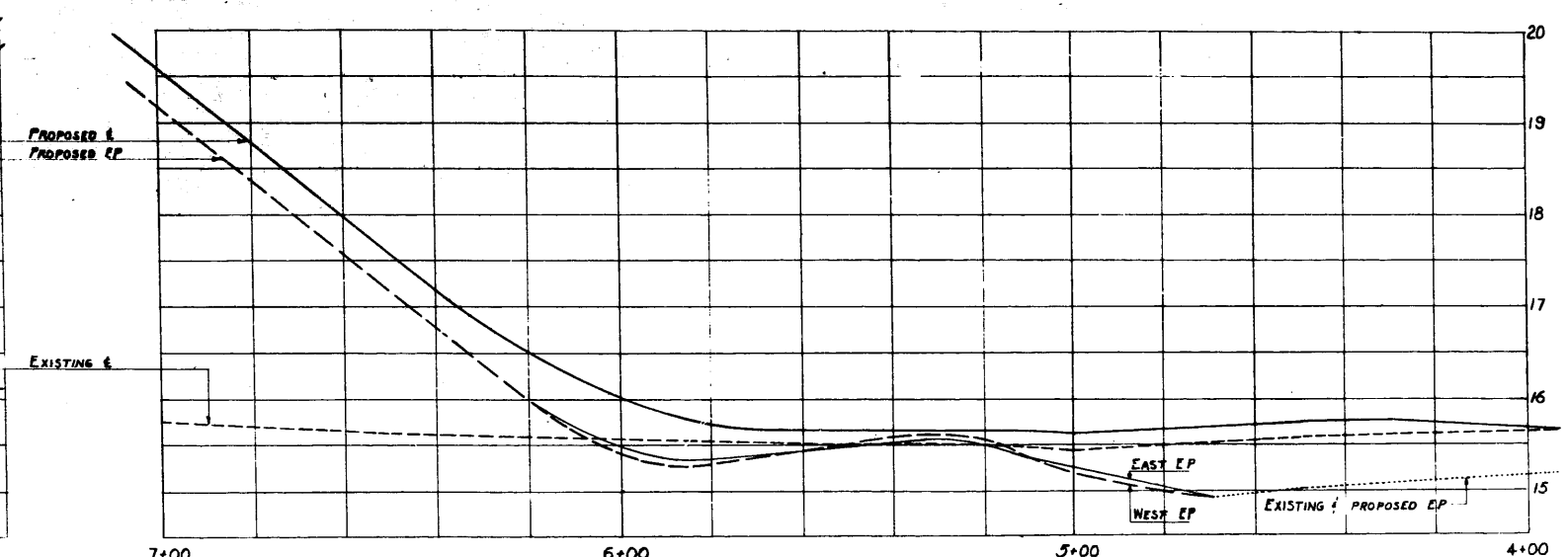
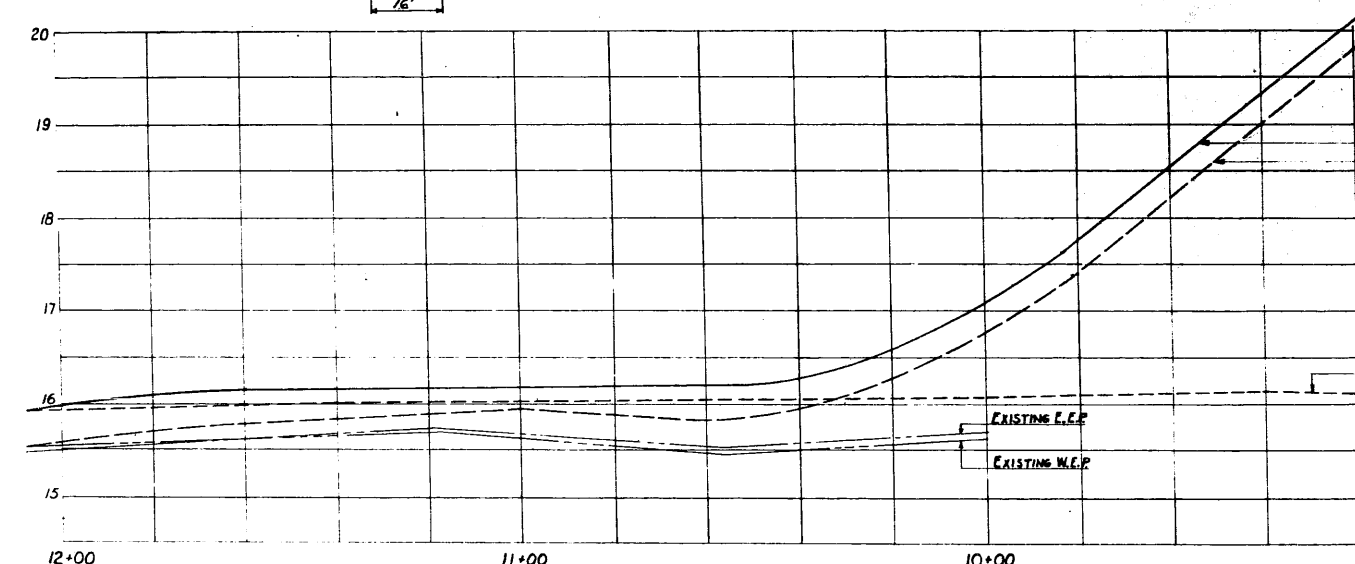
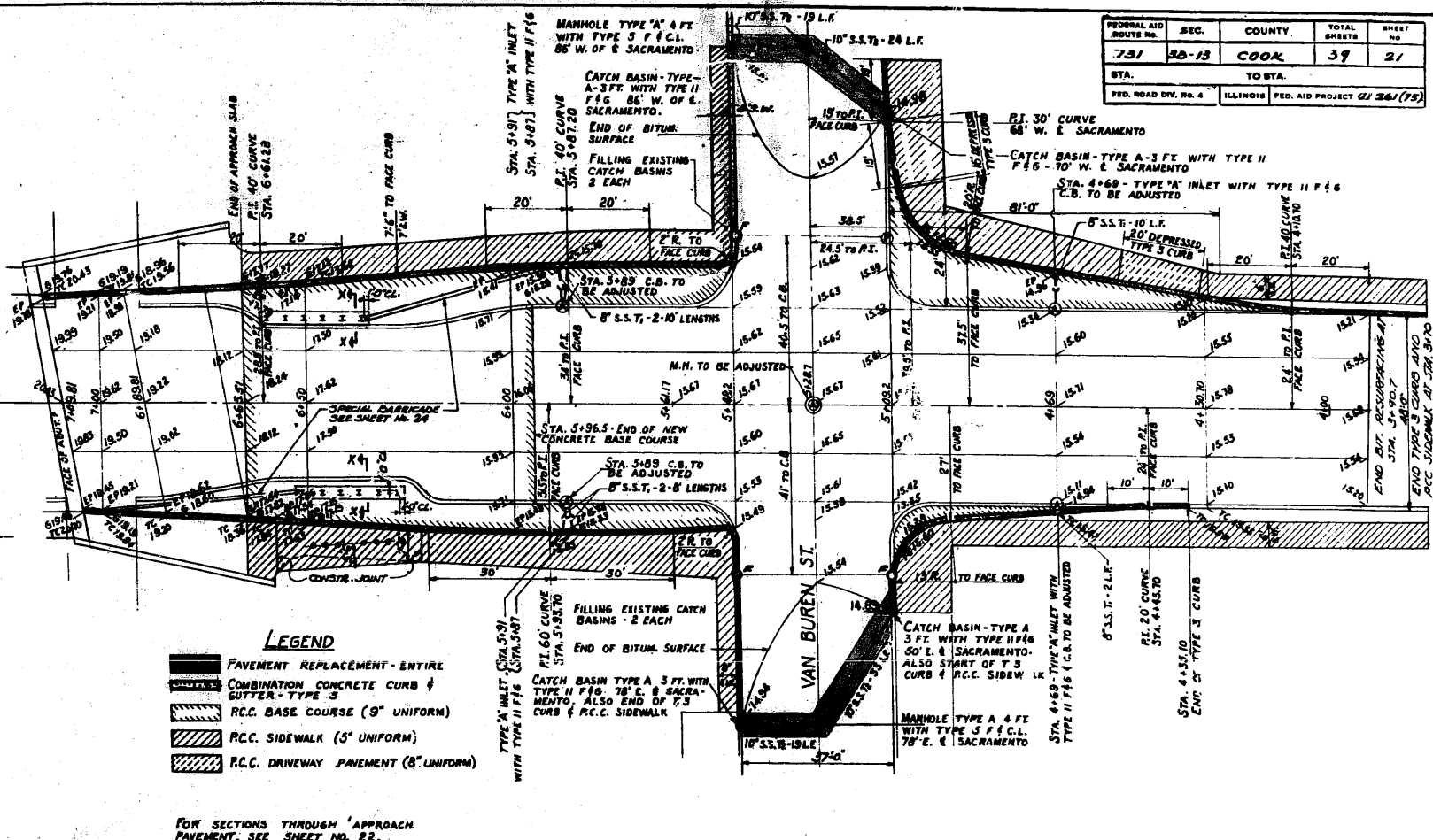
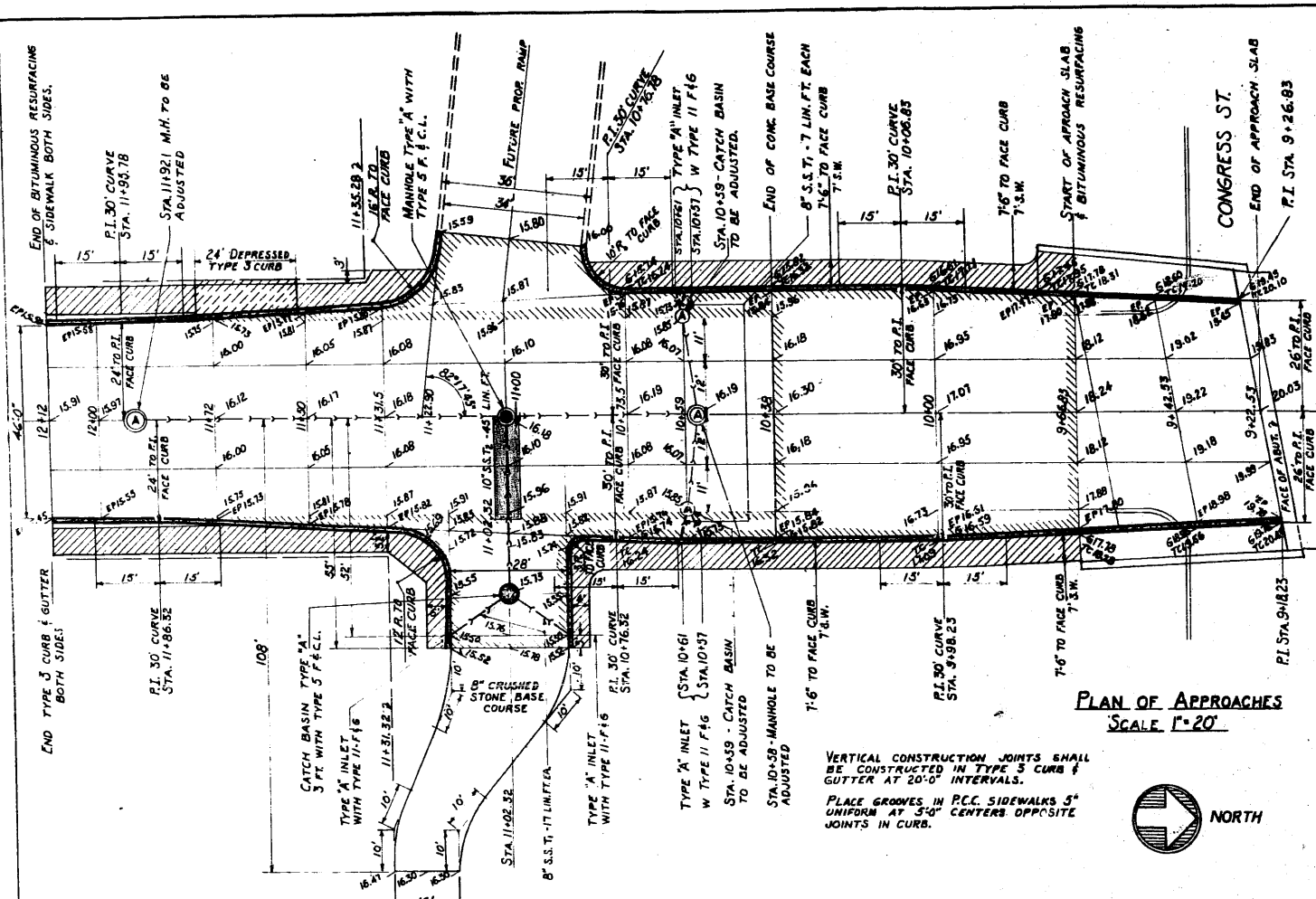
FEDERAL AID ROUTE No.	SEC.	COUNTY	TOTAL SHEETS	SHEET No.
731	3B-13	COOK	39	17
TO STA.				
FED. ROAD DIV. No. 4	ILLINOIS	FED. AID PROJECT U1 261(73)		

No. OF PCS.		BAR SIZE	BAR LENGTH	BAR MARK	TYPE	A	B	C	D	E	F	G	H	K	O	FIN	
PERI	PIER 2					PIERS CONTINUED											
10	10	#11	17'-5"	N/3													
20	-	#9	16'-6"	V31													
-	20	#9	17'-0"	V33													
47	53	#8	11'-0"	E/11													
28	-	#7	16'-6"	V32													
-	28	#7	17'-0"	V34													
8	8	#12	18'-0"	H/27													
4	4	#5	34'-0"	H/28													
4	4	#5	35'-5"	H/29													
4	4	#5	28'-0"	H/30													
4	4	#5	24'-9"	H/31													
4	4	#5	21'-5"	H/32													
4	4	#5	17'-9"	H/33													
4	4	#5	14'-5"	H/34													
8	8	#5	11'-0"	H/35													
28	32	#5	19'-0"	H/36													
8	-	#5	2'-6"	H/12													
-	8	#5	1'-6"	H/13													
8	8	#5	22'-0"	N/11													
BENT BARS																	
18	18	#11	56'-9"	H/21	1							55'-3"	1'-7"			10'	
48	48	#9	6'-5"	N/11	1							5'-0"	1'-5"			8'	
8	8	#5	11'-8"	U1	5	4'	2'-5"	5'-3"	2'-5"	3'-5"	4'						
48	48	#5	11'-9"	U1	4		4'-9"	2'-5"	4'-9"								
12	12	#5	13'-5"	U2	4		5'-6"	2'-5"	5'-6"								
12	12	#5	10'-9"	U3	4		4'-5"	2'-5"	4'-5"								
24	24	#5	10'-5"	U4	4		4'-0"	2'-5"	4'-0"								
12	12	#5	8'-5"	U5	4		3'-0"	2'-5"	3'-0"								
20	20	#5	7'-9"	U6	4		2'-9"	2'-5"	2'-9"								
12	12	#5	6'-5"	U7	4		2'-0"	2'-5"	2'-0"								
8	8	#5	5'-9"	U8	4		1'-9"	2'-5"	1'-9"								
12	12	#5	7'-5"	U9	4		3'-6"	2'-5"	3'-6"								
7	8	#5	9'-1"	U10	SEE DETAIL BELOW												
24	-	#5	15'-5"	U11	4		6'-6"	2'-5"	6'-6"								
-	24	#5	16'-8"	U12	4		7'-0"	2'-5"	7'-0"								
NORTH SOUTH APPROACH SLABS & SIDE WALKS																	
STRAIGHT BARS																	
16	16	#8	28'-0"	K6													
66	66	#5	26'-0"	E3													
66	66	#5	25'-0"	K4													
43	8	#5	34'-0"	E9													
-	28	#5	30'-0"	K10													
4	-	#5	4'-0"	E7													
30	22	#4	19'-5"	K8													
12	7	#4	28'-5"	K11													
BENT BARS																	
160	160	#8	22'-0"	K1	6	1'-2"	19'-8"	1'-2"								4'-5"	
84	84	#8	18'-0"	E2	6	1'-2"	15'-8"	1'-2"								4'-5"	
52	52	#5	4'-0"	E5	1	1'-4"	2'-6"										
64	64	#4	4'-4"	S2	5	4"	1'-0"	10"	1'-0"	10"	4"						



REINFORCEMENT BAR LISTS
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U1261(75)
F.A.RTE. 131 SECTION 3B-13
COOK COUNTY

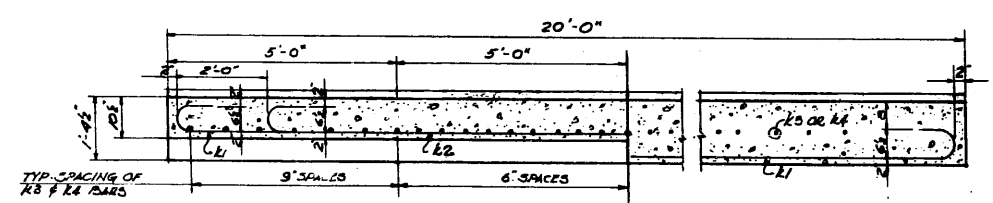
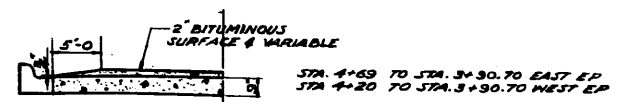
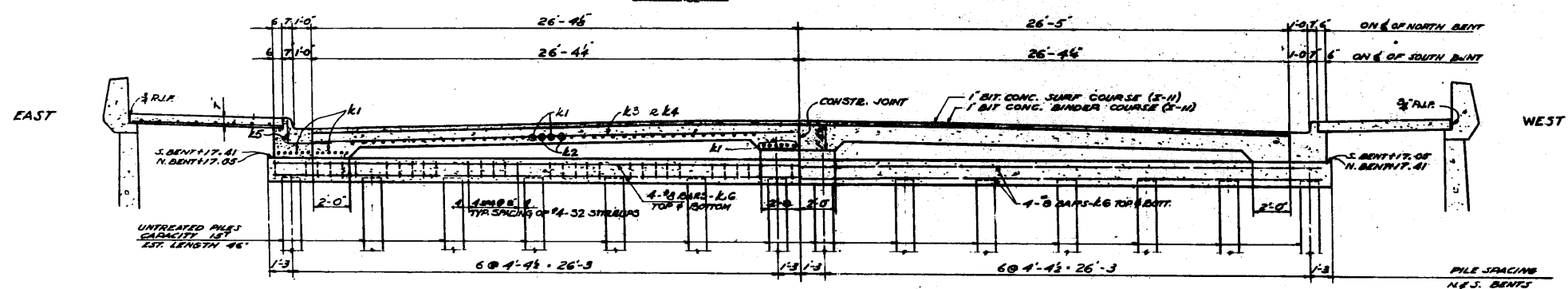
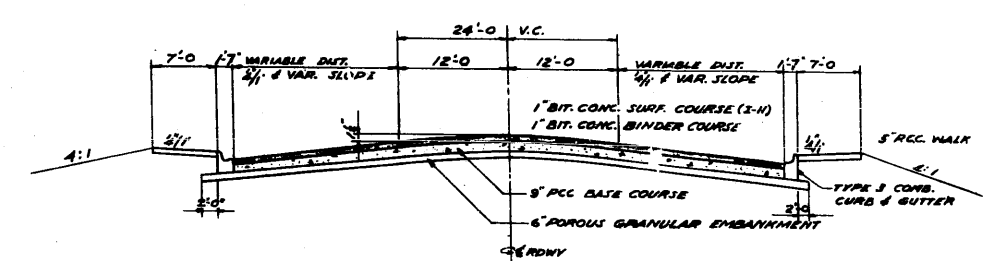
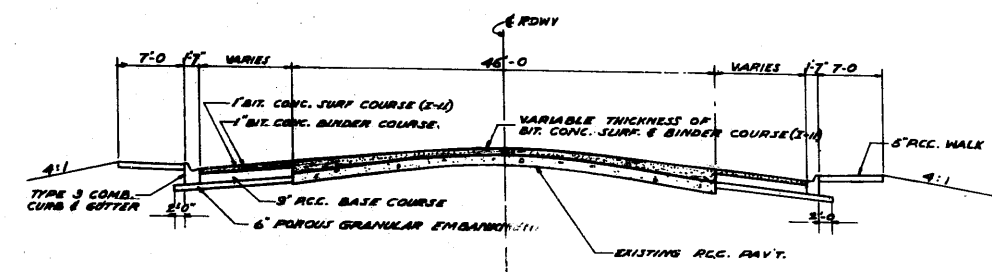
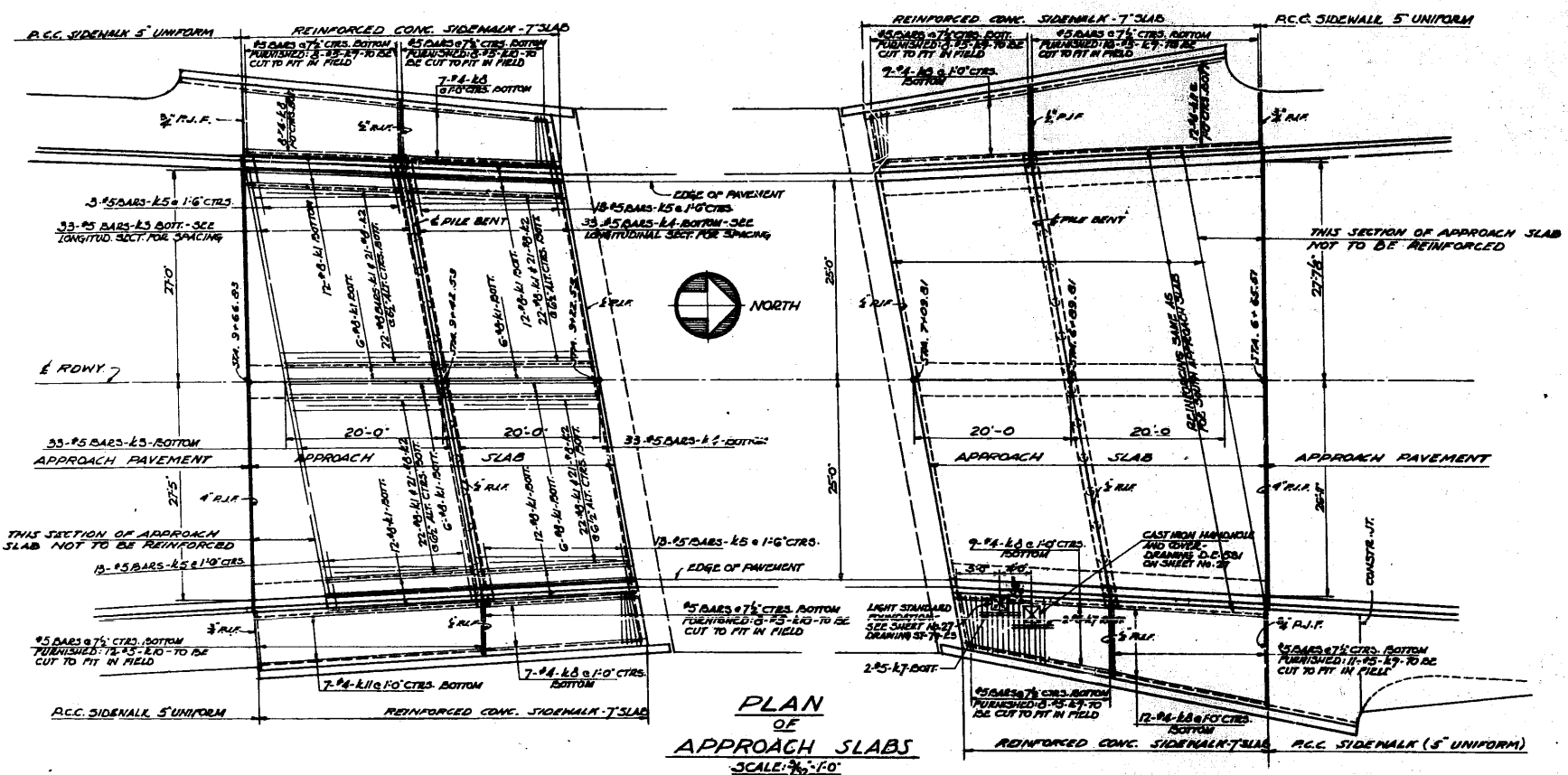
FEDERAL AID ROUTE No.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO
731	38-13	COOK	39	21
STA.		TO STA.		
FED. ROAD DIV. No. 4		ILLINOIS	FED. AID PROJECT 21(26)(75)	



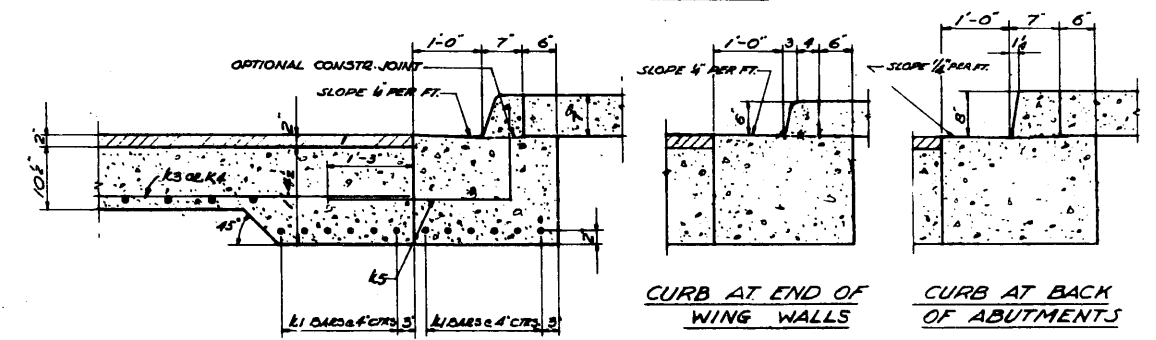
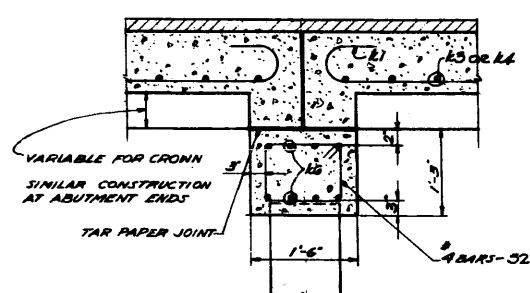
PLAN OF APPROACHES TO BRIDGE
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U1261(75)
F.A. RTE. 131 SECTION 38-13
COOK COUNTY

ALFRED BENESCH & ASSOCIATES
30 EAST ADAMS STREET
CONSULTING ENGINEERS
CHICAGO, ILLINOIS 295-21

FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
131	3B-13	COOK	39	22
STA.	TO STA.			
FED. ROAD DIV. NO. 4	ILLINOIS	FED. AID PROJECT U1261(75)		



LONGITUDINAL SECTION THRU THICKENED EDGE OF SLAB



NOTE:
REINFORCEMENT BARS IN APPROACH SLABS, PILE CAPS AND CURBS, INCLUDING DOWNLAYS, WILL BE PAID FOR AS REINFORCEMENT BARS. THE APPROACH SLABS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR R.C.C. PAVEMENT (10% - 10% - 10%). THE CONCRETE IN THE CURB BEAMS AND PILE CAPS WILL BE PAID FOR AT THE CONTRACT PRICE FOR CLASS X CONCRETE.

BILL OF MATERIAL APPROACH SLABS

ITEM	UNIT	TOTAL QUANTITY
CLASS X CONCRETE	CU. YDS.	30.8
REINFORCEMENT BARS	LBS.	40,880
REINFORCED CONCRETE SIDEWALK	SQ. FT.	1535
UNTREATED PILES 46" LONG	LIN. FT.	1268

SECTION THRU PILE CAP

TYPICAL SECTION THROUGH CURB

ALFRED BENESCH & ASSOCIATES CONSULTING ENGINEERS
30 EAST ADAMS STREET CHICAGO, ILLINOIS 2950-22

DETAIL OF APPROACH SLABS
GRADE SEPARATION
SACRAMENTO BOULEVARD
OVER
CONGRESS STREET EXPRESSWAY
PROJECT U1261(75)
F.A. RTE 131 SECTION 3B-13
COOK COUNTY