

92-H

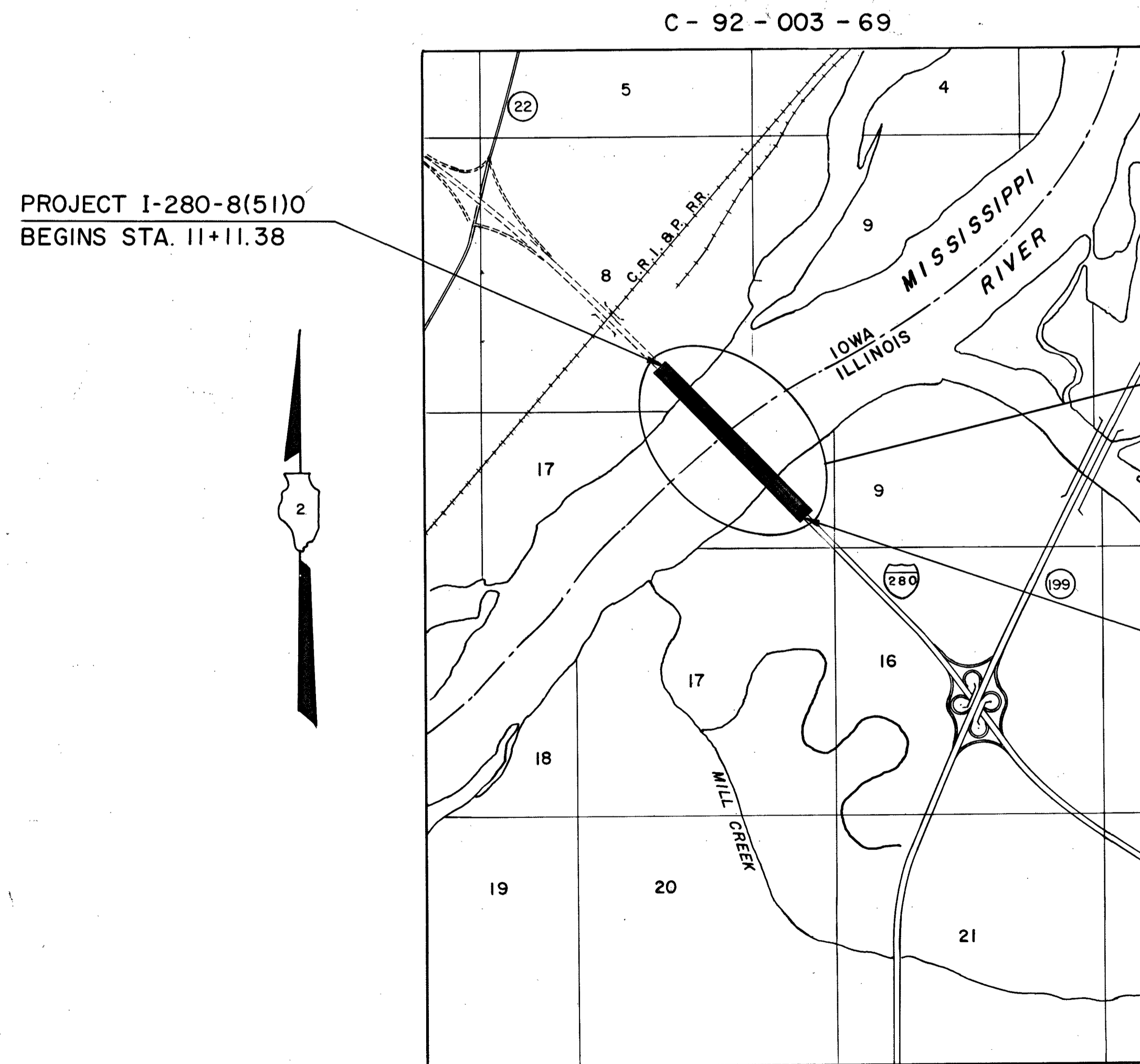
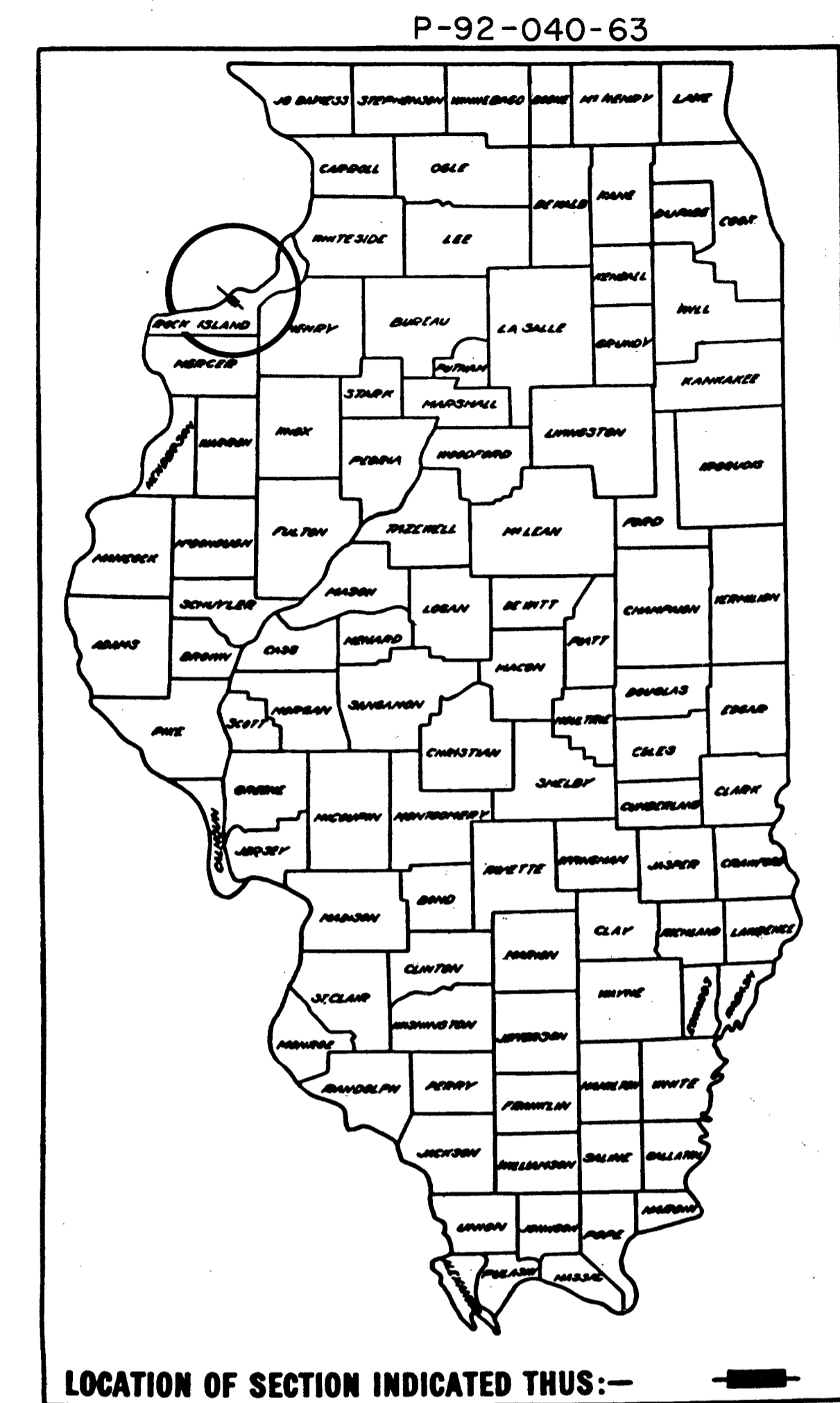
FEDERAL-NO. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
280	81-1B	SCOTT, IA. ROCK ISLAND, ILL.	67	1
FED. ROAD DIV. NO. 7 ILLINOIS PROJECT I-280-8(51)0				

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

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, SUMMARY OF QUANTITIES AND NAME PLATES
3	SITE PLAN - IOWA APPROACH
4	SITE PLAN - ILLINOIS APPROACH
5	GENERAL PLAN AND ELEVATION
6	GENERAL PLAN, ELEVATION AND GROUND PLAN - BRIDGE UNITS 1, 2 AND 3
7	GENERAL PLAN, ELEVATION AND GROUND PLAN - BRIDGE UNITS 4 AND 5
8	GENERAL PLAN, ELEVATION AND GROUND PLAN - BRIDGE UNITS 6 AND 7
9	GENERAL PLAN, ELEVATION AND GROUND PLAN - BRIDGE UNITS 8 AND 9
10	TEST BORINGS
11	TEST BORINGS
12	TEST BORINGS
13	TEST BORINGS
14	TEST BORINGS
15	TEST BORINGS
16	TEST BORINGS
17	WEST ABUTMENT - PLAN AND ELEVATIONS
18	WEST ABUTMENT - FOOTING AND WINGWALL DETAILS
19	PIER 1 - PLAN AND ELEVATIONS
20	PIER 1 - FOOTING
21	PIER 2 - PLAN AND ELEVATIONS
22	PIER 2 - FOOTING
23	PIER 3 - PLAN AND ELEVATIONS
24	PIER 3 - FOOTING
25	PIER 4 - PLAN AND ELEVATIONS
26	PIER 4 - FOOTING
27	PIER 5 - PLAN AND ELEVATIONS
28	PIER 5 - FOOTING
29	PIER 6
30	PIER 7
31	PIER 8
32	PIER 9 - PLAN AND ELEVATIONS
33	PIER 9 - WALL AND FOOTING
34	PIER 10 - ELEVATIONS
35	PIER 10 - CAP, WALL AND FOOTING
36	PIER 11 - ELEVATIONS
37	PIER 11 - CAP, WALL AND FOOTING
38	PIER 12 - ELEVATIONS
39	PIER 12 - CAP, WALL AND FOOTING
40	PIER 13 - ELEVATIONS
41	PIER 13 - CAP, WALL AND FOOTING
42	PIER 13 - MISCELLANEOUS DETAILS
43	PIER 14 - ELEVATIONS
44	PIER 14 - CAP, WALL AND FOOTING
45	PIER 14 - MISCELLANEOUS DETAILS
46	PIER 15 - PIER 15 - ELEVATIONS
47	PIER 15 - CAP, WALL AND FOOTING
48	PIER 16 - ELEVATIONS
49	PIER 16 - CAP, WALL AND FOOTING
50	PIER 17 - ELEVATIONS
51	PIER 17 - CAP, WALL AND FOOTING
52	PIER 18 - ELEVATIONS
53	PIER 18 - CAP, WALL AND FOOTING
54	PIER 19 - ELEVATIONS
55	PIER 19 - CAP, WALL AND FOOTING
56	PIER 20 - ELEVATIONS
57	PIER 20 - CAP, WALL AND FOOTING
58	PIER 21
59	PIER 22
60	PIER 23
61	PIER 24
62	PIER 25
63	PIER 26
64	PIER 27
65	EAST ABUTMENT - PLAN AND ELEVATION
66	EAST ABUTMENT - FOOTING AND WINGWALL DETAILS
STANDARDS	
67	ST'D. 2113 - NAME PLATES
67A	ST'D. 2153-7 SIGN

F.A.I. ROUTE 280 SECTION 81-1B  
 F.A. PROJECT I-280-8(51)0  
 SCOTT COUNTY, IOWA  
 ROCK ISLAND COUNTY, ILLINOIS



SECTION 81-1B

INCLUDES THE CONSTRUCTION OF THE SUBSTRUCTURE FOR A STEEL TIED ARCH BRIDGE (570' SPAN) WITH WELDED GIRDER APPROACH SPANS (7 AT 100', 3 AT 150', 3 AT 200', 3 AT 200', 3 AT 150' AND 8 AT 100') ON R.C. PIERS AND STUB ABUTMENTS ON PILES, CARRYING F.A.I. RT. 280 OVER THE MISSISSIPPI RIVER BETWEEN STATIONS 11+11.38 AND 53+04.38.

PROJECT I-280-8(51)0  
 ENDS STA. 53+04.38

APPROVED  
 FOR STRUCTURAL ADEQUACY ONLY

Engineer of Bridge & Traffic Structures

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	
SUBMITTED	9-15 1969
EXAMINED	11/12 1969
PASSED	11/12 1969
APPROVED	11/12 1969
APPROVED	11/12 1969

DEPARTMENT OF TRANSPORTATION BUREAU OF PUBLIC ROADS	
APPROVED	DATE
DIVISION ENGINEER	DATE



*William G. Horn*

CONTRACT NO. 26446

LENGTH OF PROJECT - SECTION 81-1B = 4193 FT. = 0.794 MILES

DE LEUW, CATHER & CO. - CHICAGO

*As Revised  
9-25-70*

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	2
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		

**GENERAL NOTES:**

**DESIGN LOADING:**

HS 20-44 AND ALTERNATE.

**DESIGN SPECIFICATIONS:**

AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 9TH EDITION, DATED 1965 AND THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES.

**CONSTRUCTION SPECIFICATIONS:**

STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS, DIVISION OF HIGHWAYS, ADOPTED AUGUST 1, 1968.

**DESIGN STRESSES:**

**Concrete:**

- $f'_c = 3,500$  P.S.I. ULTIMATE STRENGTH IN 14 DAYS
- $f_c = 1,400$  P.S.I. CONCRETE WITHOUT EARTH PRESSURE
- $f_c = 1,000$  P.S.I. CONCRETE WITH EARTH PRESSURE
- $v = 75$  P.S.I. MAXIMUM SHEAR IN FOOTING
- $n = 10$

**Reinforcement Steel:**

$f_s = 20,000$  P.S.I.

**Structural Steel:**

$f_s = 20,000$  P.S.I. (A36)

ALL CONCRETE SHALL BE CLASS "X".

STRUCTURAL STEEL PLATES WHICH PROTECT PIER NOSE SHALL CONFORM TO SPECIFICATIONS FOR STRUCTURAL STEEL A.S.T.M. DESIGNATION: A500 AND ALL FASTENERS SHALL CONFORM TO A.S.T.M. DESIGNATION: A36.

ALL REINFORCING BARS SHALL BE LAPPED 24" DIAMETER UNLESS OTHERWISE SHOWN.

SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" x 6" MESH, WEIGHING 58 POUNDS PER 100 SQUARE FEET.

LAYOUT OF SLOPE WALLS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

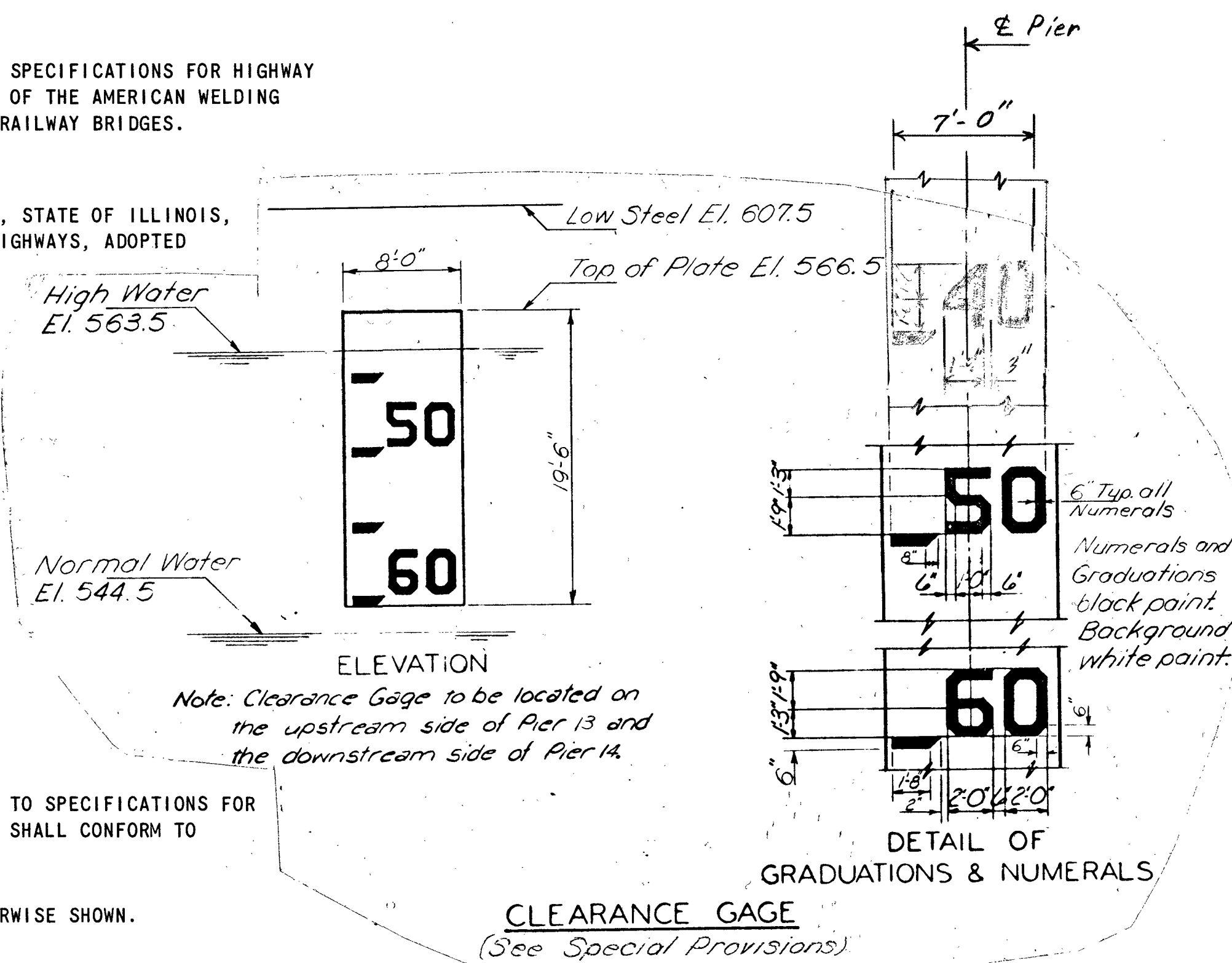
CLASS "A" EXCAVATION FOR STRUCTURES INCLUDES EXCAVATION FOR SLOPE WALL.

2" PREMOULDED EXPANSION JOINT SHALL BE PLACED BETWEEN SLOPE WALL AND PIERS.

ANCHOR BOLTS FOR BEARINGS, RAILINGS AND OTHER MISCELLANEOUS DETAILS ARE SHOWN FOR INFORMATION ONLY AND SHALL NOT BE INCLUDED IN THIS CONTRACT. THE CONTRACTOR SHALL SPACE REINFORCEMENT BARS TO CLEAR FUTURE ANCHOR BOLTS AS SHOWN.

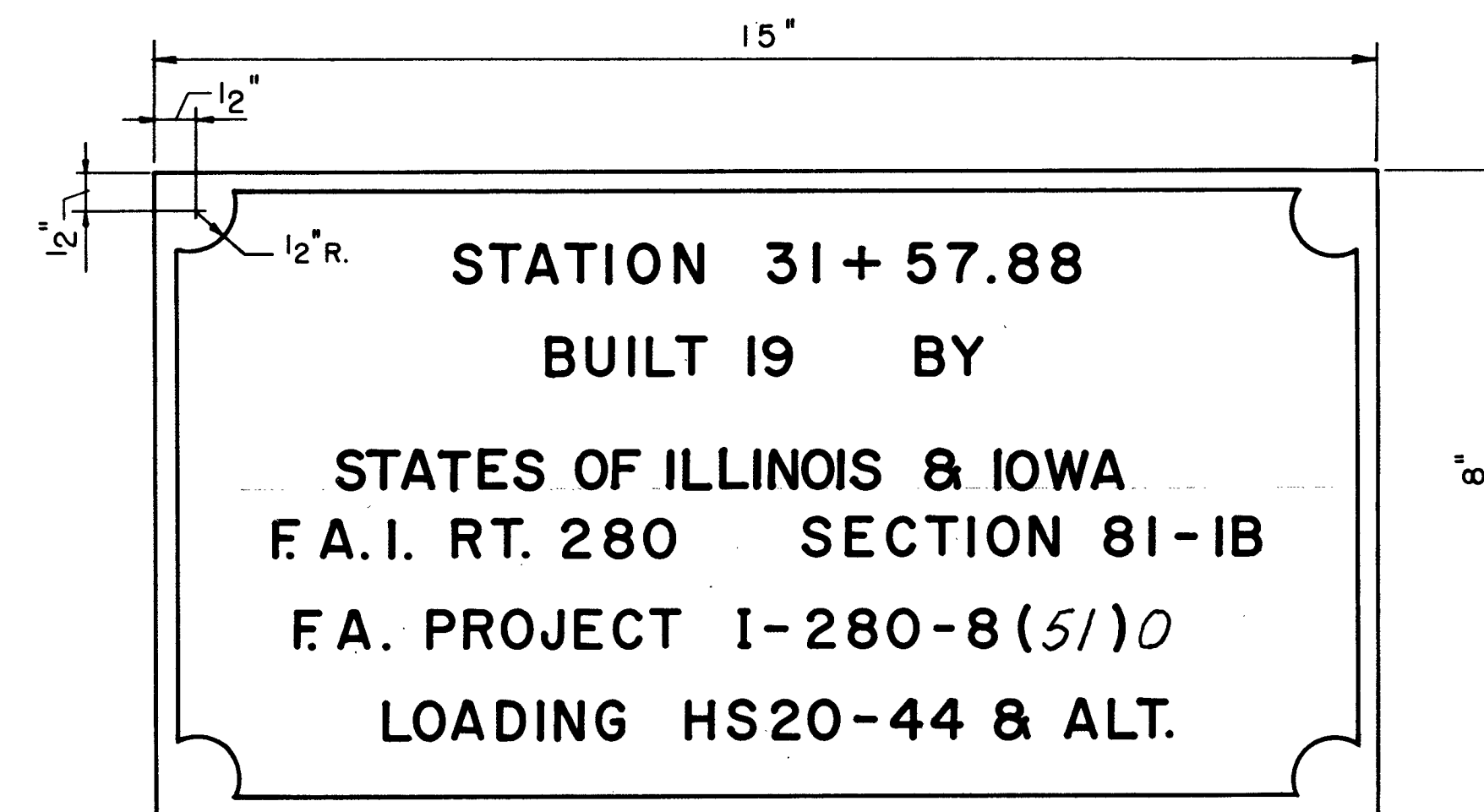
THE CONTRACTOR SHALL DRIVE ONE STEEL TEST PILE (10BP42), IN A PERMANENT LOCATION AS DIRECTED BY THE ENGINEER, AT EACH ABUTMENT AND AT EACH OF THE FOLLOWING PIERS, BEFORE ORDERING THE REMAINDER OF THE PILES: PIERS 5, 6, 7, 8, 21, 22, 23, 24, 25, 26 AND 27.

ONE (1) SIGN CONFORMING TO STANDARD 2153-7 SHALL BE ERECTED AS DIRECTED BY THE ENGINEER.



**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	QUANTITY
201005	TREE REMOVAL ACRES.	ACRE	5.9
209002	POROUS GRANULAR EMBANKMENT	CU. YD.	270
502001	CLASS "A" EXCAVATION FOR STRUCTURES	CU. YD.	4,703
502002	CLASS "B" EXCAVATION FOR STRUCTURES	CU. YD.	1,624
502004	ROCK EXCAVATION FOR STRUCTURES	CU. YD.	11,008
502003	Cofferdam Excavation	CU. Yds.	18,827
502014	COFFERDAM (PIER 9)	EACH	1
502015	COFFERDAM (PIER 10)	EACH	1
502016	COFFERDAM (PIER 11)	EACH	1
502017	COFFERDAM (PIER 12)	EACH	1
502018	COFFERDAM (PIER 13)	EACH	1
502019	COFFERDAM (PIER 14)	EACH	1
502020	COFFERDAM (PIER 15)	EACH	1
502021	COFFERDAM (PIER 16)	EACH	1
502022	COFFERDAM (PIER 17)	EACH	1
502023	COFFERDAM (PIER 18)	EACH	1
502024	COFFERDAM (PIER 19)	EACH	1
502025	COFFERDAM (PIER 20)	EACH	1
X03917	CONCRETE SEAL	SQ. YD.	3,976
504003	CLASS "X" CONCRETE	CU. YD.	31,668
507001	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	20,240
512001	REINFORCEMENT BARS	POUND	2,440,440
513005	FURNISHING CREOSOTED PILES, 20.1 TO 38 FEET	LIN. FT.	420
513006	FURNISHING CREOSOTED PILES OVER 38 FEET	LIN. FT.	540
513022	DRIVING TIMBER PILES	LIN. FT.	960
513013	FURNISHING STEEL PILE (10BP42)	LIN. FT.	24,921
513033	TEST PILES STEEL (10BP42)	EACH	13
513026	DRIVING STEEL PILES	LIN. FT.	24,921
513042	CLASS "X" CONCRETE ENCASEMENT	CU. YD.	24.0
514001	NAME PLATE	EACH	2
618003	SLOPE WALL (6")	SQ. YD.	5,835
646001	ENGINEER'S FIELD OFFICE, TYPE A	EACH	1
646003	ENGINEER'S FIELD LABORATORY	EACH	1
X03916	Core Borings	Lin.Ft.	540



**LETTERING FOR NAME PLATES**

FOR DETAILS SEE STANDARD NO.2113-1

SCALE: 1/2" = 1"

Revised  
8-17-70

**GENERAL NOTES, SUMMARY OF QUANTITIES AND NAME PLATES**

F.A.I. ROUTE 280 SECTION 81-1B

I-280 OVER MISSISSIPPI RIVER

SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.

STA. 11 + 11.38 TO STA. 53 + 04.38

SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY S. RASHID, J. Y. HUANG  
 DRAWN BY H. de PERCZEL, M. VADKERTY  
 CHECKED J. Y. HUANG  
 IN CHARGE J. Y. HUANG  
 APPROVED W. G. HORN

Rev. C1, B Exc. from 20,451 to 1,624 cu.yds., Added Cofferdam Exc. 18,827 cu.yds., Deleted Bridge Seat Sealant Lump Sum-1 10-16-69 S.F.M. Added Numeral 40 to Clearance Gauge 8-17-70 S.F.M.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	3
FED. ROAD DIST. NO.		FED. AID PROJECT 1-280		

CORPS OF ENGINEERS  
 BM 148/3  
 ELEV. CAP 558.49  
 BOLT 554.51  
 STA 19+74.45  
 963.51' LT.

BORING NO. 3  
551.5' 0'

BLACK CLAYEY LOAM	1	2' 6"
VERY LOOSE BLACK SANDY CLAYEY ORGANIC SILT, TRACE FINE GRAVEL	1	2' 6"
SEE NOTE B	6	7' 6"
LOOSE BROWN COARSE SAND AND FINE GRAVEL	2	4
VERY LOOSE FINE-COARSE BROWN SAND, TRACE FINE-LARGE GRAVEL	1	1
VERY HARD GRAY SHALE	12	14' 6"
	33	
	71	16' 0"

BORING NO. 5  
556.4' 0'

BROWN SANDY LOAM	2	4	4	2' 6"
STIFF BROWN VERY SILTY CLAY TRACE SAND	3	5	6	5' 6"
MEDIUM BROWN FINE-COARSE SAND WITH FINE GRAVEL	8	14	14	
MEDIUM BROWN FINE-COARSE SAND	9	12	11	13' 0"
LOOSE BROWN FINE-COARSE SAND WITH FINE GRAVEL, ORGANIC SILT SEAMS NOTED	2	2	6	16' 0"
DENSE BROWN FINE-COARSE SAND WITH FINE GRAVEL	10	20	27	
HARD GRAY SHALE	8	14	24	21' 6"
VERY HARD GRAY SHALE	15	33	33	
	35	100/5		
	100			
	100/5			
	100	35' 0"		

BORING NO. 4  
549.5' 0'

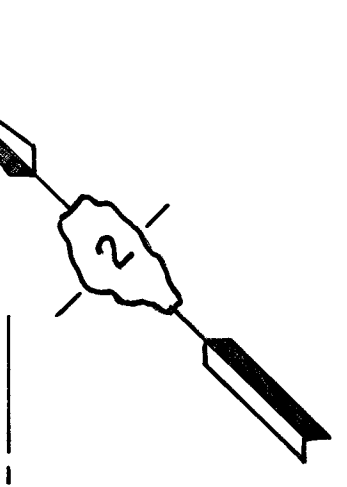
TOPSOIL	1	1' 0"		
VERY LOOSE DARK BROWN ORGANIC SILT	2	3	24	3' 6"
SOFT BROWN & GRAY CLAYEY SILT, TRACE FINE GRAVEL	3	2	3	6' 0"
SOFT BLUE & YELLOW CLAYEY SILT	3	2	3	7' 6"
DENSE YELLOW & RED FINE-COARSE SAND & FINE LARGE GRAVEL	13	16	17	
VERY HARD GRAY SHALE	54	83		
	35	45		
	37	33		
	66/2	50		18' 0"

BORING NO. 6  
549.6' 0'

WATER SURFACE	4' 3"		
CONCRETE PIECES, BOULDERS & SILT, SOME GRAVEL	14' 8"		
	17' 0"		
	18' 6"		
VERY DENSE GRAY & BROWN COARSE SAND & FINE-MEDIUM GRAVEL	30	30	21' 6"
HARD GRAY SHALE, SEAMS OF COAL NOTED (CLAYEY SILT SEAMS AT 26' 0" & 27' 0")	30	27	24' 0"
	39/5	24' 6"	
		25' 6"	
		12	
		42	
		22	
		29' 0"	
		48	
		33' 0"	
		39/3	33' 3"

BORING NO. 7  
545.8' 0'

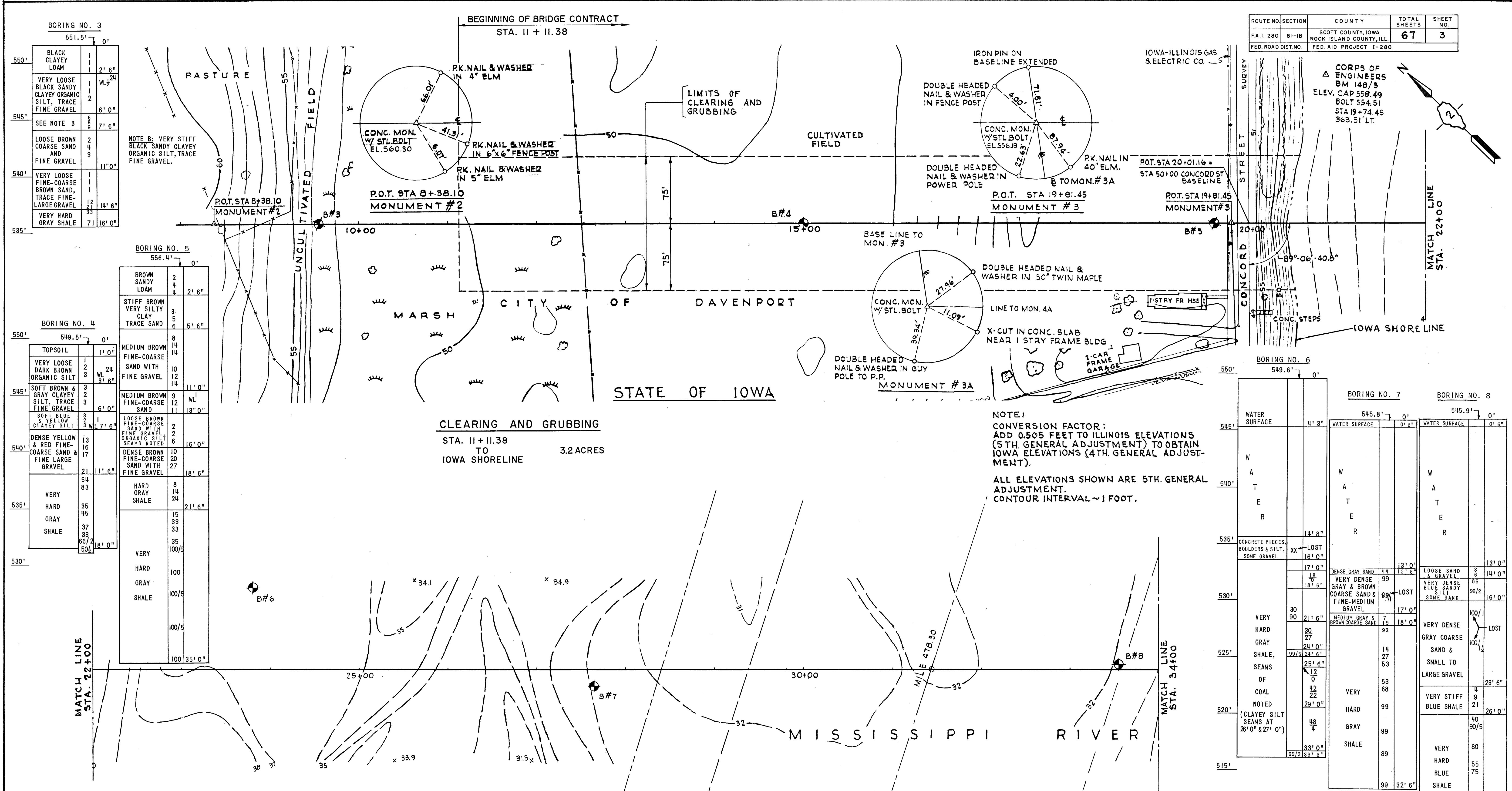
WATER SURFACE	0' 6"		
DENSE GRAY SAND	4	4	13' 0"
VERY DENSE GRAY & BROWN COARSE SAND & FINE-MEDIUM GRAVEL	99	85	13' 6"
	99	71	18' 0"
	30	30	17' 0"
VERY DENSE GRAY COARSE SAND & SMALL TO LARGE GRAVEL	14	27	53
	53	68	
VERY STIFF BLUE SHALE	99	99	23' 6"
	4	9	21
	40	90/5	
VERY HARD BLUE SHALE	80		
	55	75	
	55	99	
(SMALL SEAM OF COAL)	99	36' 0"	



--- EXISTING CHANNEL LIMITS AS DETERMINED BY CORPS OF ENGRS.  
 - - - PROPOSED CHANNEL LIMITS AS ESTABLISHED BY CORPS OF ENGRS.  
 B#1 BORING LOCATION  
 40 CONTOUR ELEVATION 540'  
 ALL ELEVATIONS SHOWN ARE 5TH GENERAL ADJUSTMENT

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W.E. ASSMUS  
 DRAWN BY W.B. LEROY  
 CHECKED [Signature]  
 IN CHARGE J.Y. HUANG  
 APPROVED W.G. HORN

SITE PLAN  
 IOWA APPROACH  
 F.A.I. ROUTE 280, SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 7+00.00 TO STA. 34+00.00  
 SCALE: AS NOTED DATE:



CLEARING AND GRUBBING  
 STA. 11+11.38  
 TO  
 IOWA SHORELINE  
 3.2 ACRES

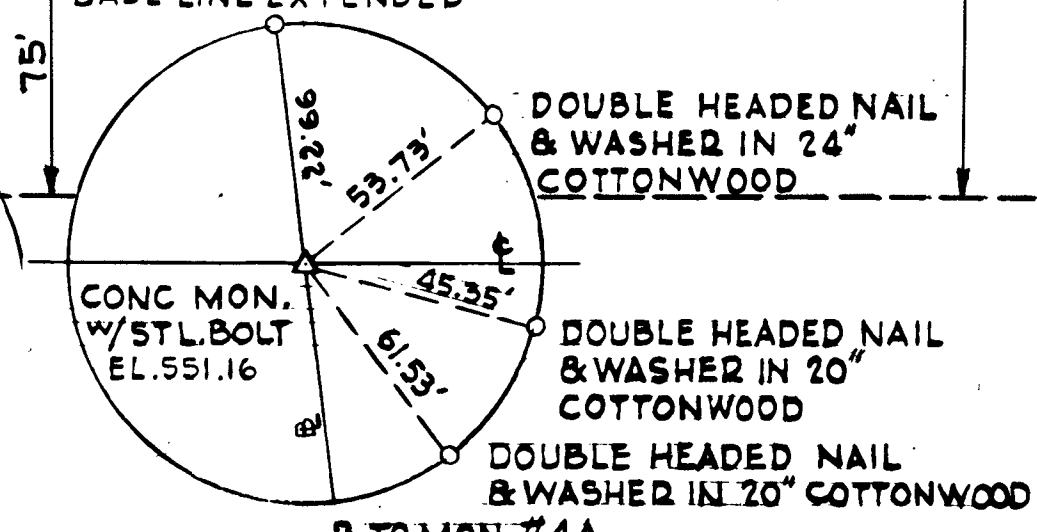
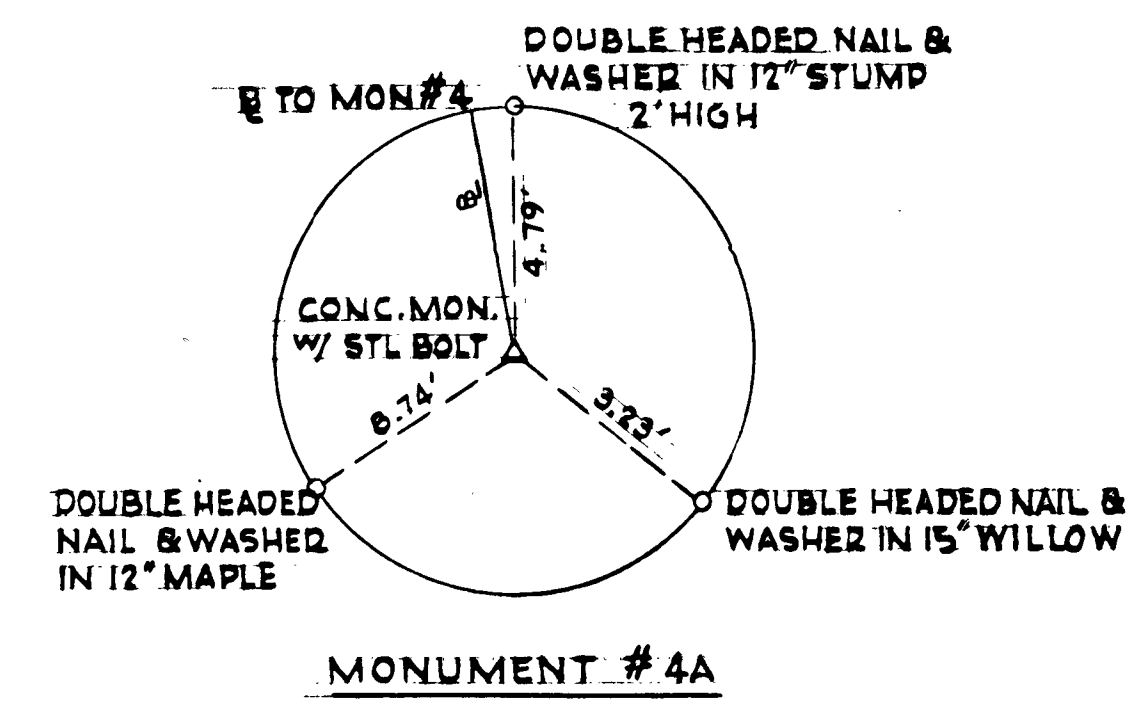
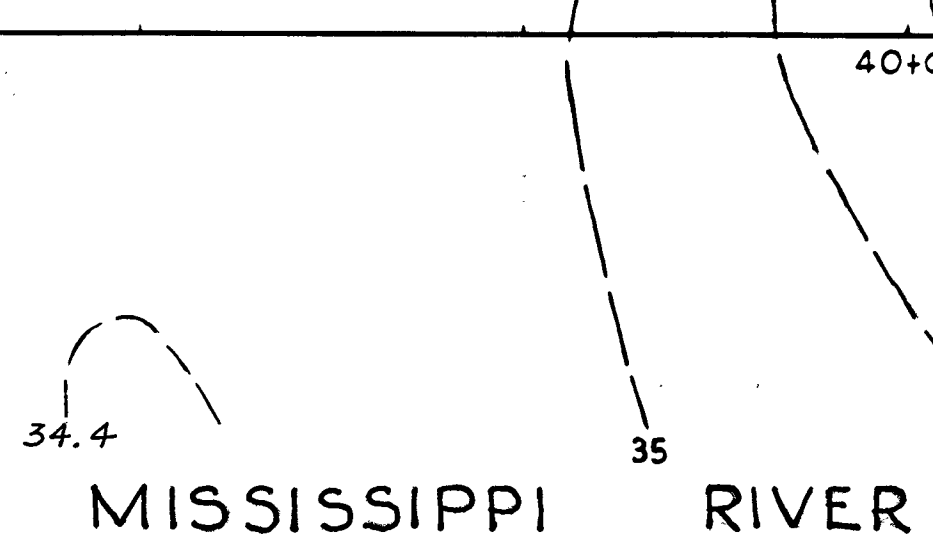
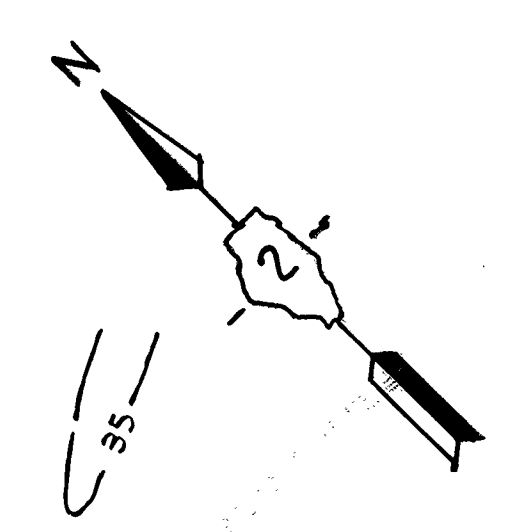
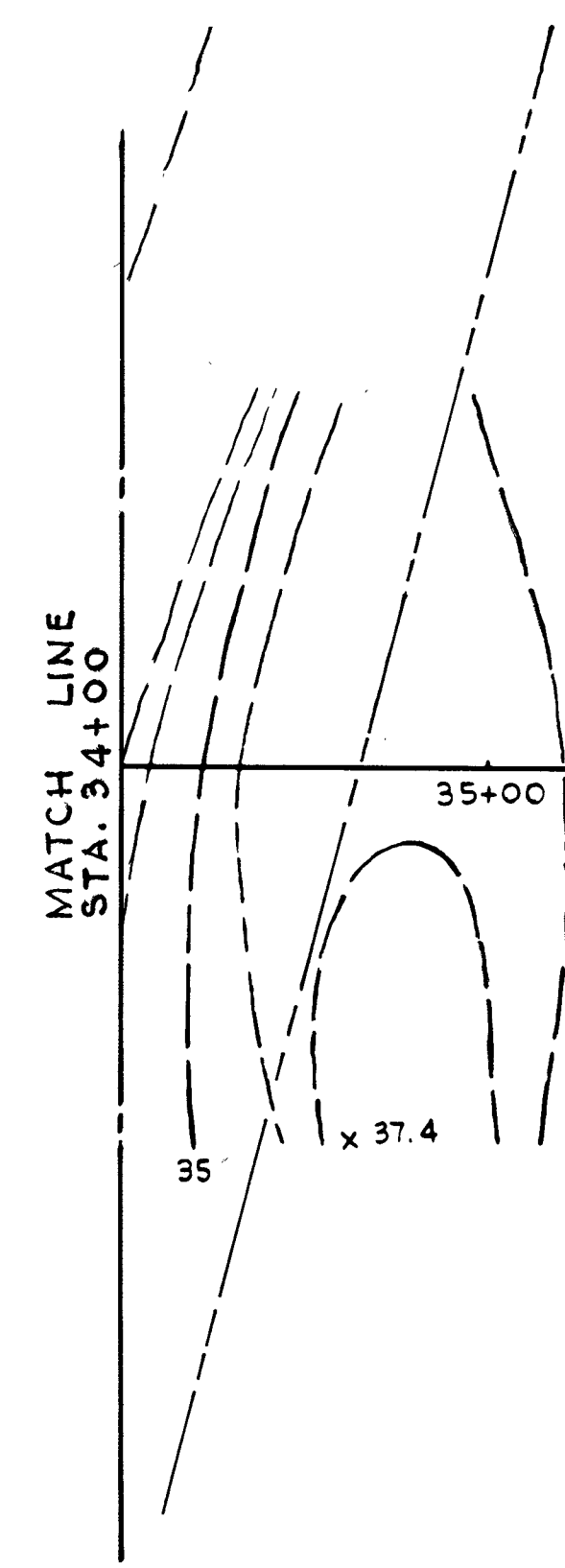
NOTE:  
 CONVERSION FACTOR:  
 ADD 0.505 FEET TO ILLINOIS ELEVATIONS  
 (5TH. GENERAL ADJUSTMENT) TO OBTAIN  
 IOWA ELEVATIONS (4TH. GENERAL ADJUST-  
 MENT).  
 ALL ELEVATIONS SHOWN ARE 5TH. GENERAL  
 ADJUSTMENT.  
 CONTOUR INTERVAL ~ 1 FOOT.

**BORING NO. 10**  
551.2' 0"

LOOSE BROWN FINE SAND	2	2	3'0"
LOOSE BROWN & GRAY ORGANIC SILT, SOME SAND	3	4	8'0"
VERY LOOSE BROWN & GRAY ORGANIC SILT	2	1	10'6"
LOOSE GRAY FINE-COARSE SAND, TRACE FINE GRAVEL	3	4	13'6"
MEDIUM GRAY FINE-COARSE SAND, TRACE FINE GRAVEL	6	6	16'6"
DENSE GRAY FINE-COARSE SAND & FINE-MEDIUM GRAVEL	11	18	18'6"
MEDIUM GRAY FINE-COARSE CLAYEY SAND & FINE-MEDIUM GRAVEL	8	10	21'0"
STIFF GRAY SILTY CLAY LOAM	4	7	25'6"
DENSE BROWN FINE-MEDIUM AND FINE-MEDIUM GRAVEL	11	16	29'0"
VERY DENSE BROWN FINE-MEDIUM SAND & FINE-MEDIUM GRAVEL	9	24	33'6"
VERY HARD BLACK & GRAY SHALE	12	25	40'0"

**BORING NO. 9**  
545.8' 0"

WATER SURFACE	0	6	0'6"
VERY STIFF BLUE SILTY CLAY, TRACE SAND	3	5	14'0"
MEDIUM GRAY COARSE SAND & GRAVEL, SOME STONE FRAGMENTS, TRACE CLAY	8	20	21'6"
SEAMS SILT & FINE TO MEDIUM SAND	3	5	25'6"
DENSE GRAY & BROWN COARSE SAND & FINE-LARGE GRAVEL	21	72	28'3"
VERY HARD GRAY SHALE	30	61	30'0"
HARD GRAY SHALE	99/1	23	32'1"
GRAY SHALE	99/4	3	34'0"
SHALE	68	61	35'4"
			36'4"



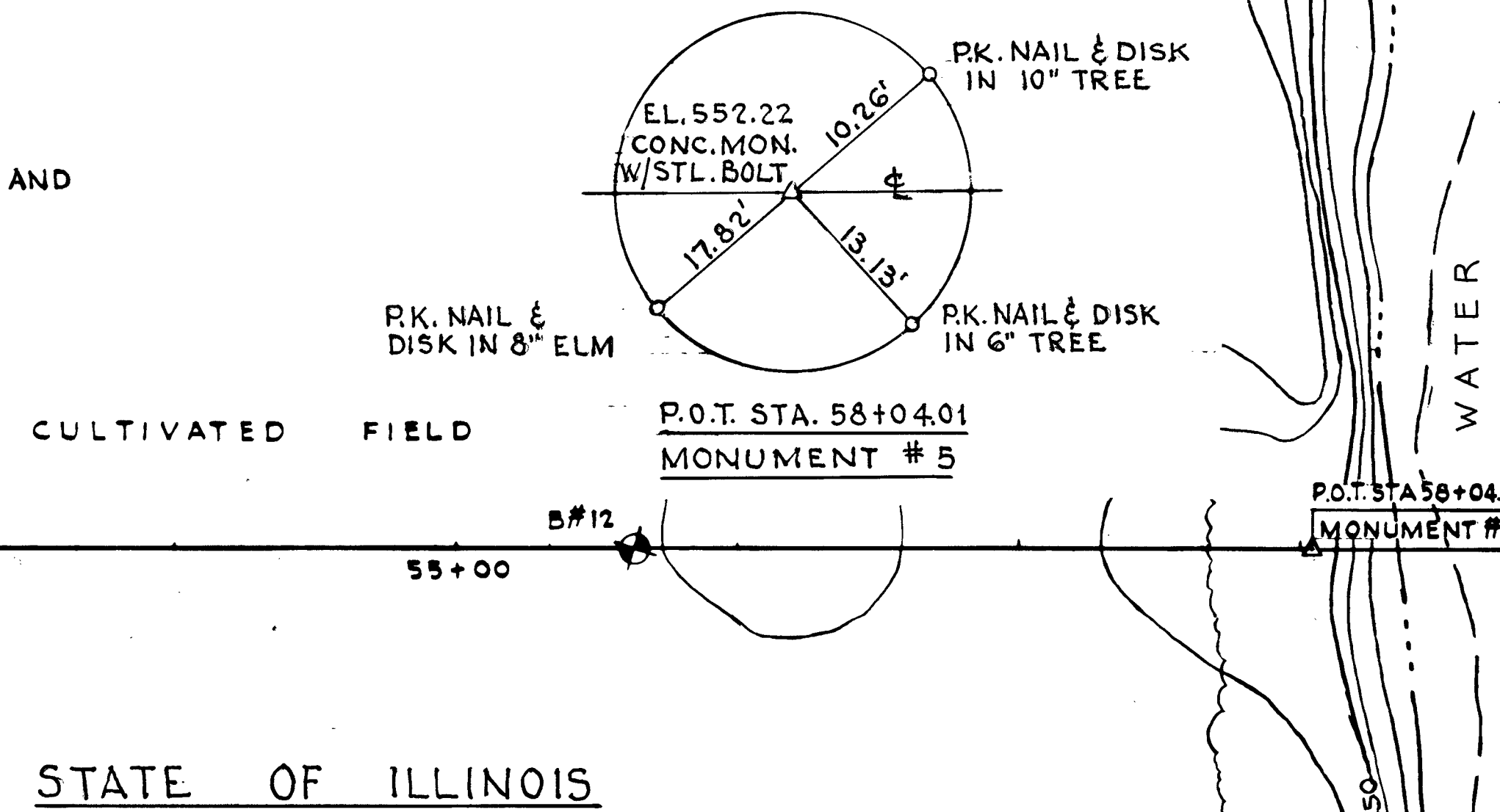
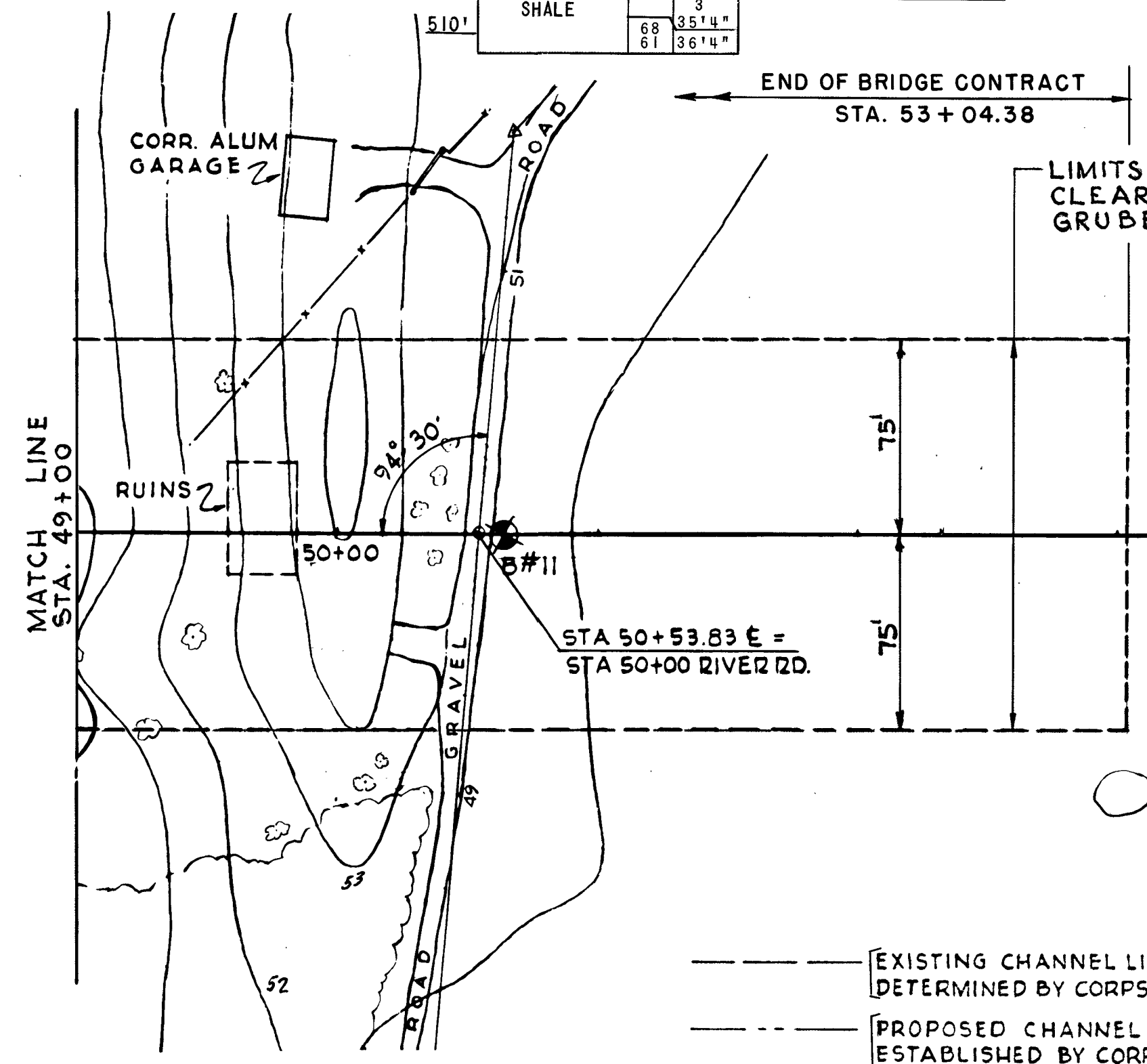
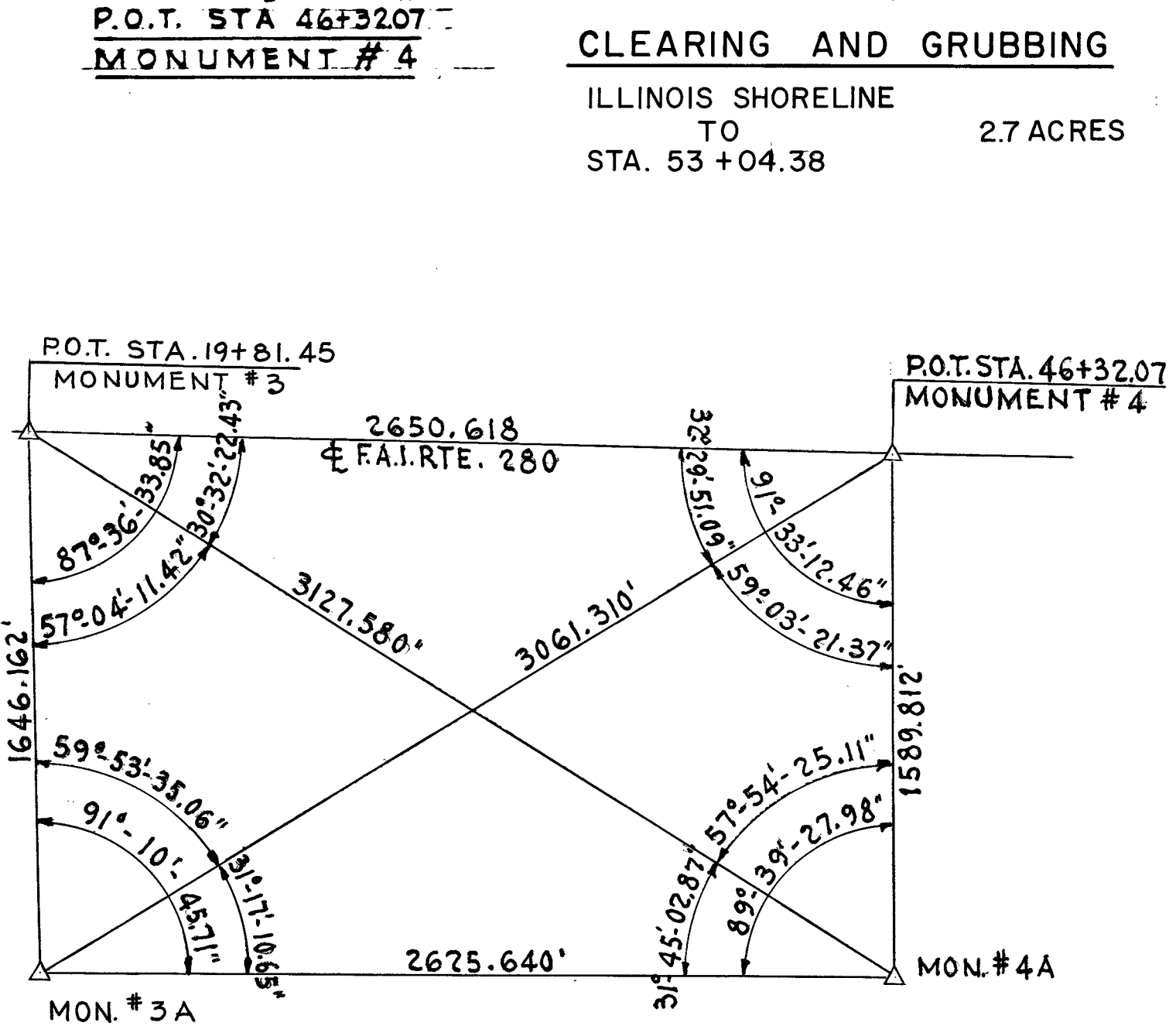
**NOTE:**  
CONVERSION FACTOR:  
ADD 0.505 FEET TO ILLINOIS ELEVATIONS (5TH GENERAL ADJUSTMENT) TO OBTAIN IOWA ELEVATIONS (4TH GENERAL ADJUSTMENT).  
ALL ELEVATIONS SHOWN ARE 5TH GENERAL ADJUSTMENT CONTOUR INTERVAL--1 FOOT.

**BORING NO. 11**  
552.6' 0"

DARK BROWN CLAY LOAM	3	3	5'6"
SOFT BROWN CLAYEY SILT, TRACE SAND	2	2	7'6"
LOOSE BROWN COARSE SAND & FINE TO MEDIUM GRAVEL	5	7	13'0"
MEDIUM BROWN COARSE SAND & FINE-LARGE GRAVEL, BOULDERS NOTED	17	11	17'0"
VERY STIFF DARK BROWN & GRAY SILT, SOME ORGANIC MATTER	7	11	32'0"
(BOULDER)	60		
MEDIUM BROWN & GRAY COARSE SAND & FINE MEDIUM GRAVEL, SOME BOULDERS	10	15	38'0"
VERY HARD BLACK SHALE	25	61	48'0"

**BORING NO. 12**  
551.8' 0"

BLACK CLAYEY LOAM	3	5	3'0"
SOFT BROWN SANDY CLAYEY SILT	2	2	10'3"
MEDIUM BROWN COARSE SAND & FINE TO MEDIUM GRAVEL, BOULDERS NOTED	3	8	23'0"
STIFF GREEN CLAYEY SILT WITH SEAMS SAND & PEAT	5	6	26'0"
DENSE GRAY MEDIUM COARSE SAND, SOME FINE-MEDIUM GRAVEL	9	17	32'0"
VERY DENSE GRAY & BROWN COARSE SAND & FINE-MEDIUM GRAVEL	88	30	39'6"
MEDIUM BROWN MEDIUM SAND	10		35'6"
VERY HARD GRAY SHALE	13	36	42'0"



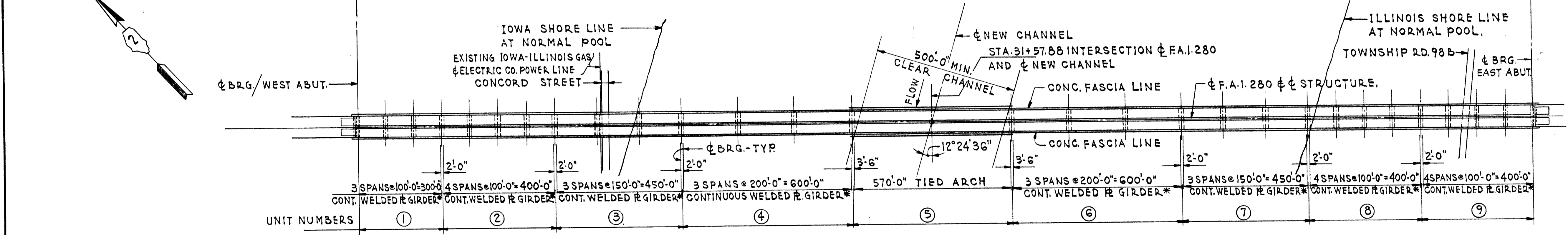
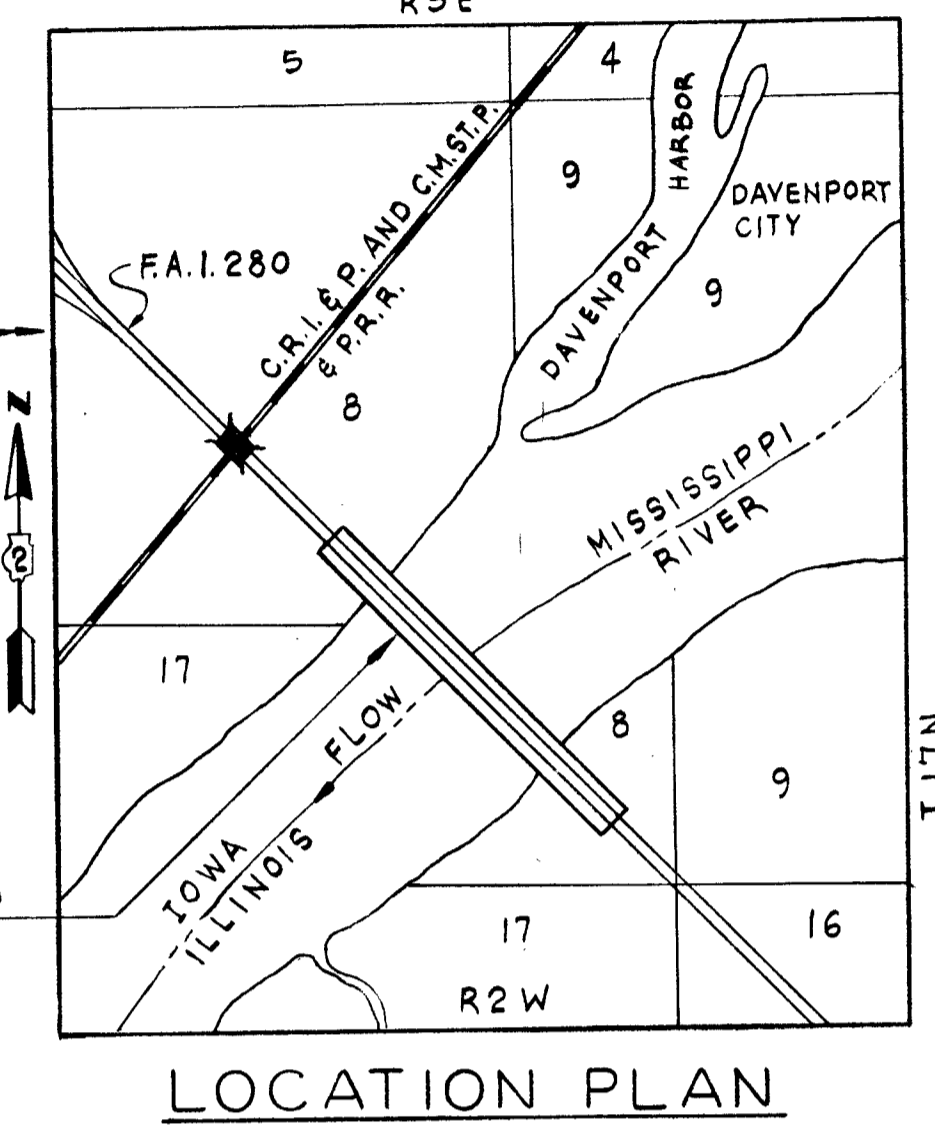
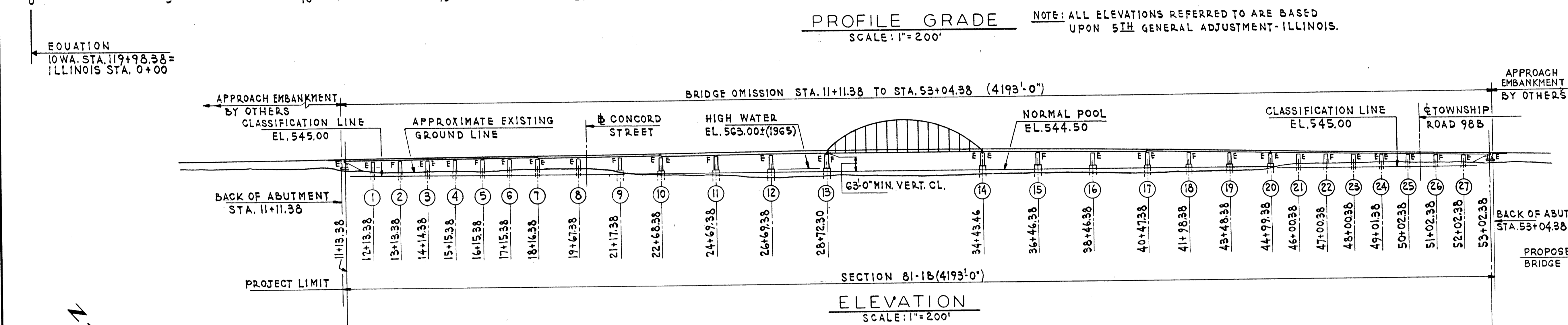
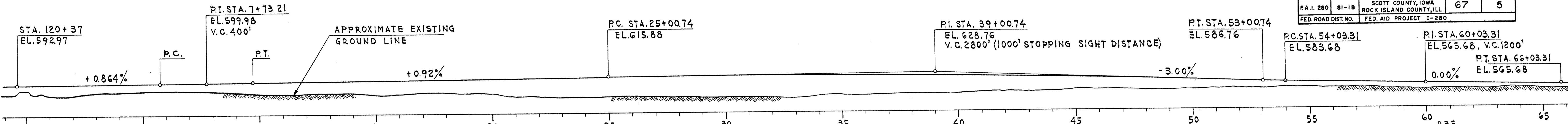
--- EXISTING CHANNEL LIMITS AS DETERMINED BY CORPS OF ENGRS.  
 --- PROPOSED CHANNEL LIMITS AS ESTABLISHED BY CORPS OF ENGRS.  
 B # 1 BORING LOCATION  
 40 CONTOUR ELEVATION 540'  
 ALL ELEVATIONS SHOWN ARE 5TH GENERAL ADJUSTMENT

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W.E. ASSMUS  
 DRAWN BY W.B. LEROY  
 CHECKED J. Y. HUANG  
 IN CHARGE J. Y. HUANG  
 APPROVED W.G. HORN

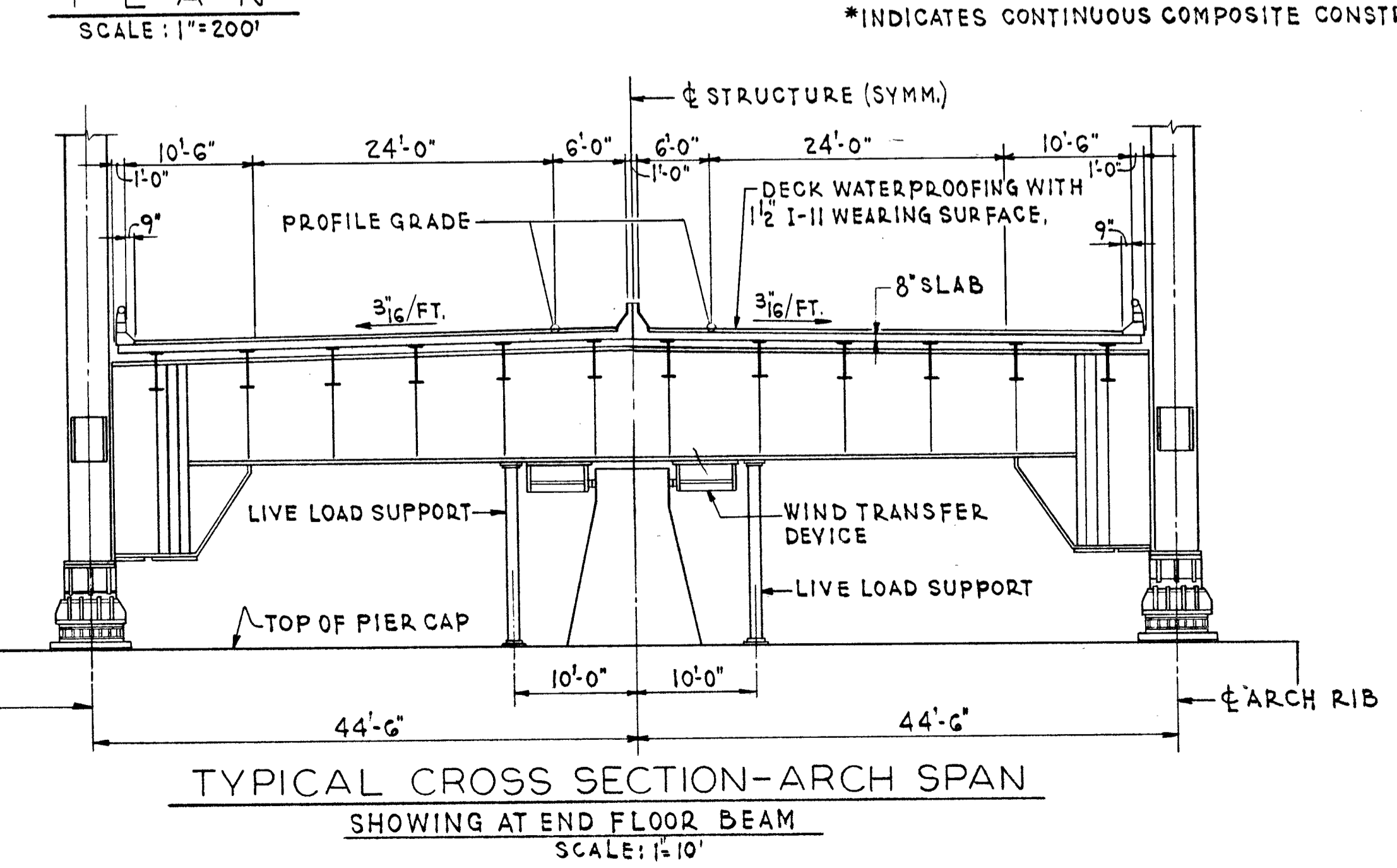
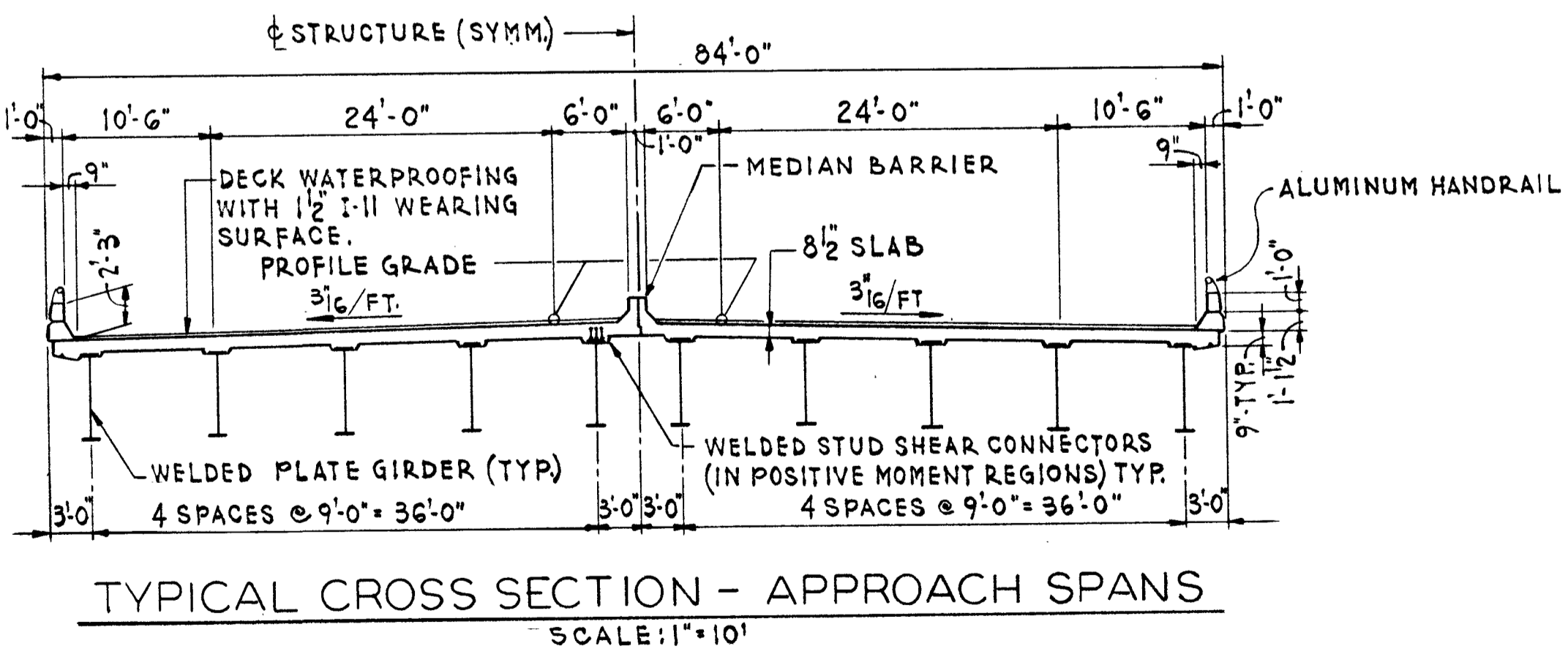
**SITE PLAN**  
**ILLINOIS APPROACH**  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 34+00.00 TO STA. 60+00.00  
 SCALE: AS NOTED DATE:



ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	5
FED. ROAD DIST. NO.		FED. AID PROJECT 1-280		



QUANTITIES		
ITEM	UNIT	QUANTITY
TREE REMOVAL ACRES	ACRE	5.9 6.7
POROUS GRANULAR EMBANKMENT	CU. YD.	270 223
CLASS "A" EXCAVATION FOR STRUCTURES	CU. YD.	4,783 4,123
CLASS "B" EXCAVATION FOR STRUCTURES	CU. YD.	4,027 1,680
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	4,008 1,312
CORE BORINGS	LIN. FT.	546 842
COFFERDAM (PIER 9)	EACH	1
COFFERDAM (PIER 10)	EACH	1
COFFERDAM (PIER 11)	EACH	1
COFFERDAM (PIER 12)	EACH	1
COFFERDAM (PIER 13)	EACH	1
COFFERDAM (PIER 14)	EACH	1
COFFERDAM (PIER 15)	EACH	1
COFFERDAM (PIER 16)	EACH	1
COFFERDAM (PIER 17)	EACH	1
COFFERDAM (PIER 18)	EACH	1
COFFERDAM (PIER 19)	EACH	1
COFFERDAM (PIER 20)	EACH	1
CONCRETE SEAL	SQ. YD.	3,378 3,773
CLASS "X" CONCRETE	CU. YD.	31,688 31,136.5
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	20,240
REINFORCEMENT BARS	POUND	2,440 440
FURNISHING CRESOTED PILES, 20.1 TO 38 FEET	LIN. FT.	2,740 2,27
FURNISHING CRESOTED PILES, OVER 38 FEET	LIN. FT.	540 545.3
DRIVING TIMBER PILES	LIN. FT.	900 765
FURNISHING STEEL PILE (10BP42)	LIN. FT.	24,921 23,476
TEST PILES STEEL (10BP42)	EACH	18 14
DRIVING STEEL PILES (10BP42)	LIN. FT.	24,921 22,044
CLASS "X" CONCRETE ENCASUREMENT	CU. YD.	24.0
NAME PLATE	EACH	2
SLOPE WALL (6")	SQ. YD.	5,835 3,835
ENGINEER'S FIELD OFFICE, TYPE A	EACH	1
ENGINEER'S FIELD LABORATORY	EACH	1
Cofferdam Excavation	CU. YDS	18,827 13,227
FILL CONC UNDER PIER 18	-/-	362



**WATERWAY INFORMATION**

WATERWAY OPENING REQUIRED	26,000 SQ. FT.
WATERWAY OPENING PROVIDED	26,240 SQ. FT.
50 YEAR FREQUENCY DISCHARGE	293,000 CU. FS.
50 YEAR HIGH WATER ELEVATION	562.5
DRAINAGE AREA	99,200 SQ. MI.
MILES FROM MOUTH	1,560 MI.

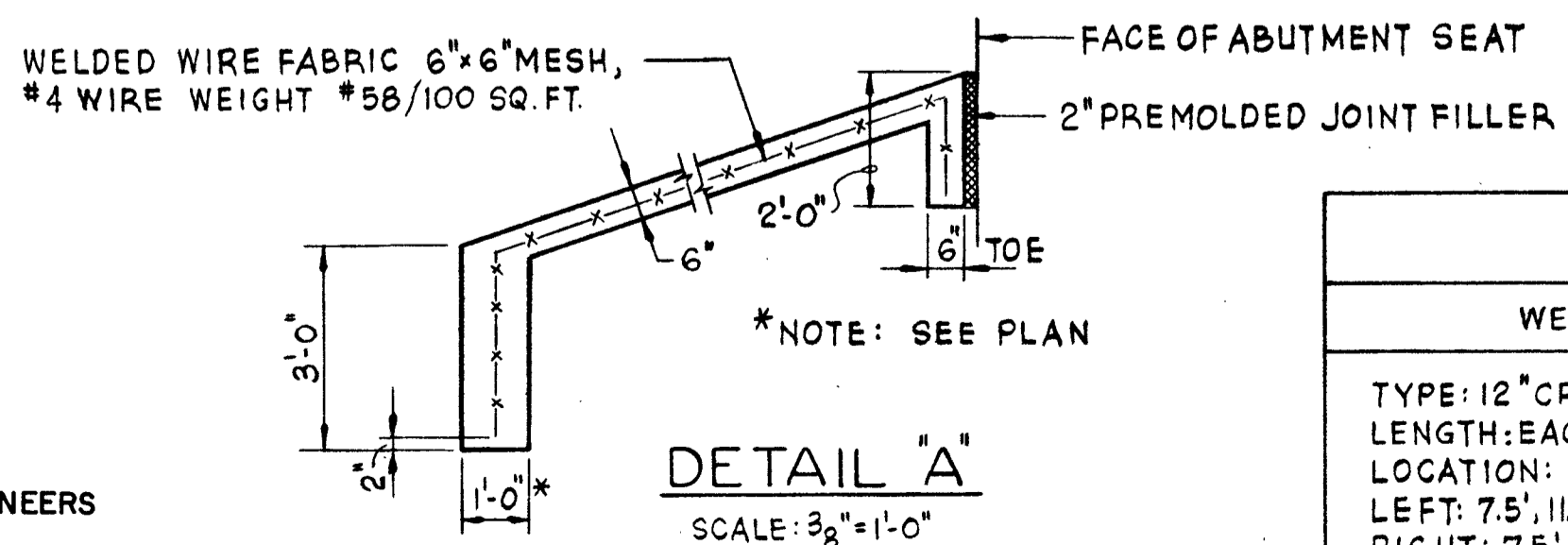
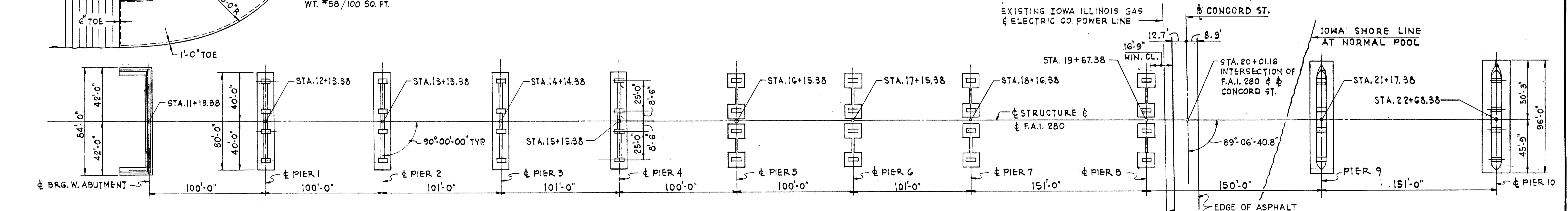
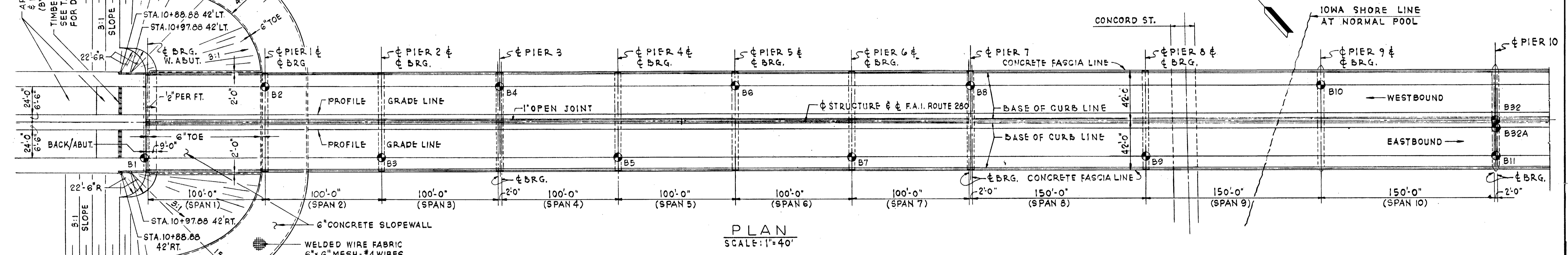
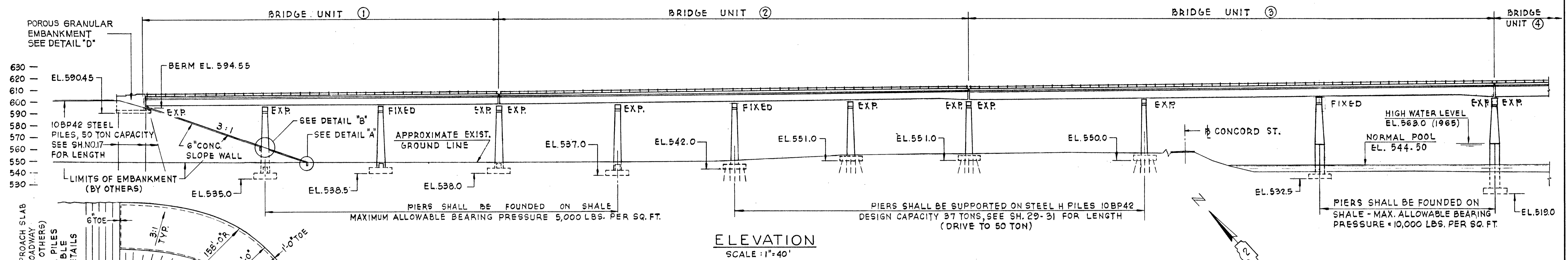
**GENERAL PLAN AND ELEVATION**  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W.G. HORN  
 DRAWN BY A. BUROKAS  
 CHECKED \_\_\_\_\_  
 IN CHARGE \_\_\_\_\_  
 APPROVED W.G. HORN

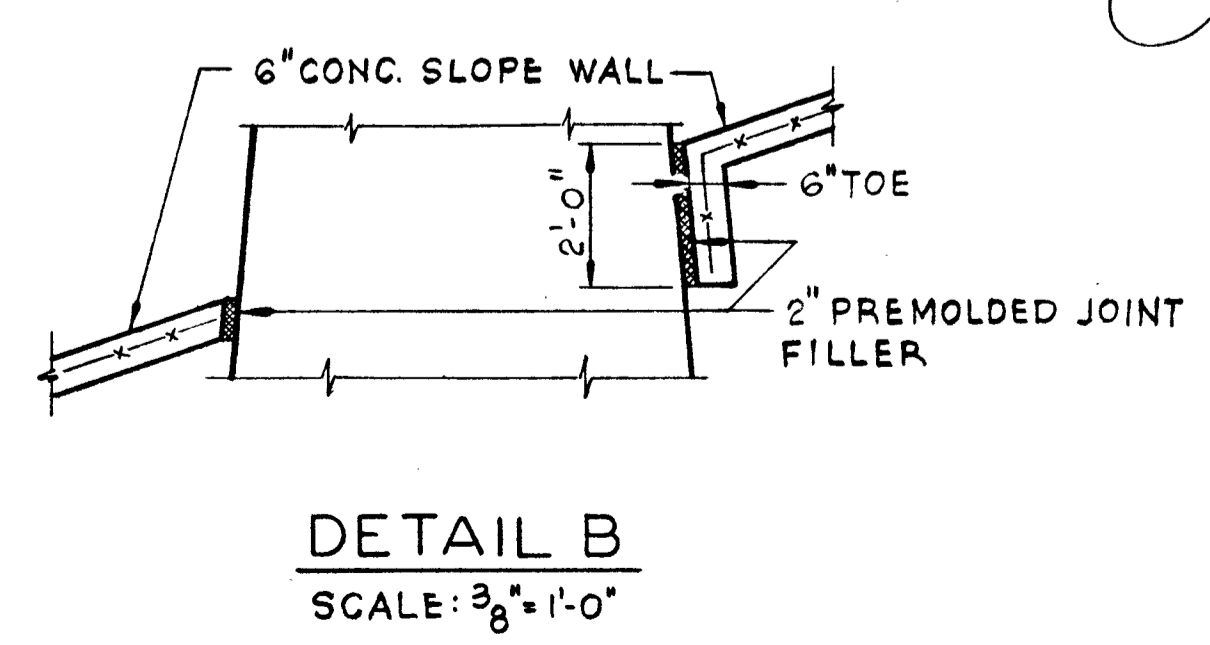
Rev. Cl. B. Exc. from 20,451 to 1624 cu.yds., Added Cofferdam Exc. 18,827 cu.yds., Deleted Bridge Seat Sealant Lump Sum 1 10-16-69 S.F.M.



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	6
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		



APPROACH PILE DATA	
WEST ABUTMENT	EAST ABUTMENT
TYPE: 12" CREOSOTE TIMBER PILE	TYPE: 12" CREOSOTE TIMBER PILE
LENGTH: EACH: 45'	LENGTH: 35' EACH
LOCATION: STA. 10+91.38	LOCATIONS: STA. 53+24.36 @
LEFT: 7.5', 11.9', 16.3', 20.7', 25.1', & 29.5'	LEFT: 7.5', 11.9', 16.3', 20.7', 25.1', & 29.5'
RIGHT: 7.5', 11.9', 16.3', 20.7', 25.1', & 29.5'	RIGHT: 7.5', 11.9', 16.3', 20.7', 25.1', & 29.5'
CUT OFF EL. 599.8	CUT-OFF EL. 533.3

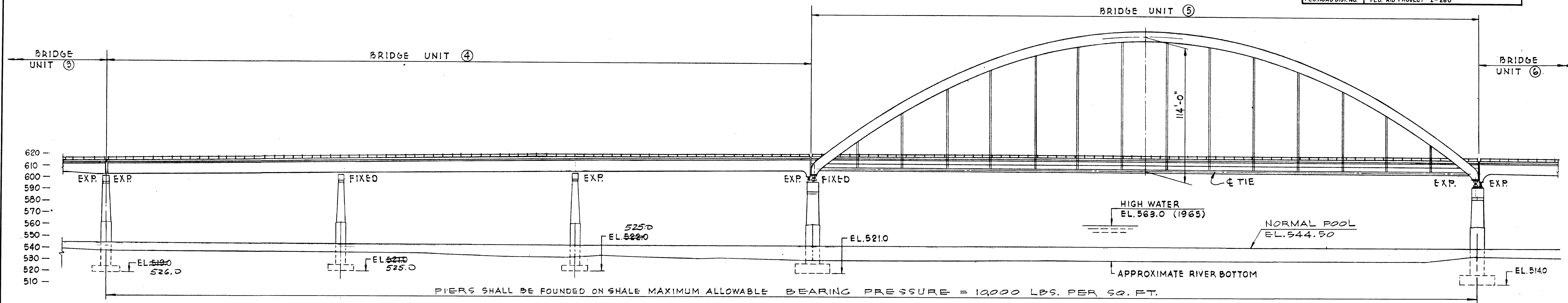


**LEGEND**  
● DENOTES BORING LOG

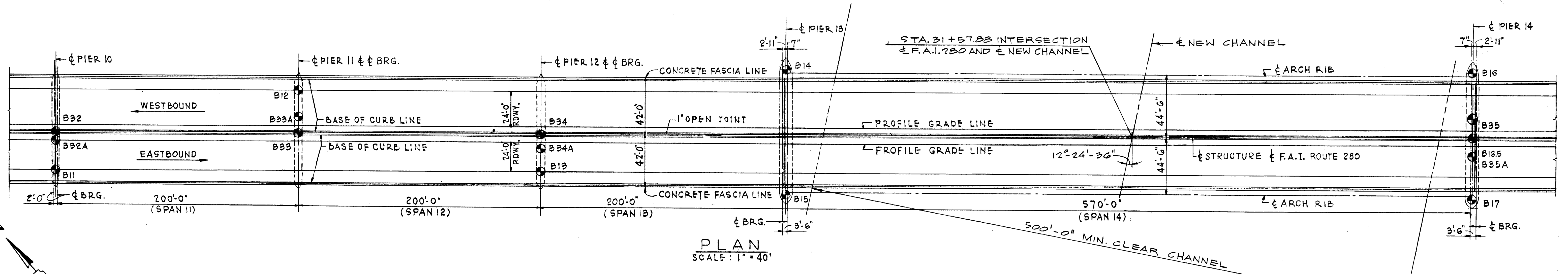
**GENERAL PLAN, ELEVATION & GROUND PLAN**  
**BRIDGE UNITS 1, 2 & 3**  
F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 13.38 TO STA. 22 + 68.38  
SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.G. HORN  
DRAWN BY A. BUROKAS  
CHECKED J. Y. HUANG  
IN CHARGE  
APPROVED W.G. HORN

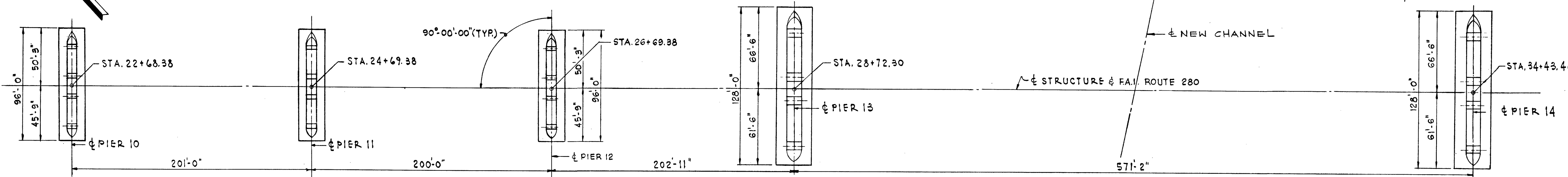
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	7
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



**ELEVATION**  
SCALE: 1" = 40'



**PLAN**  
SCALE: 1" = 40'



**FOOTING PLAN**  
SCALE: 1" = 40'

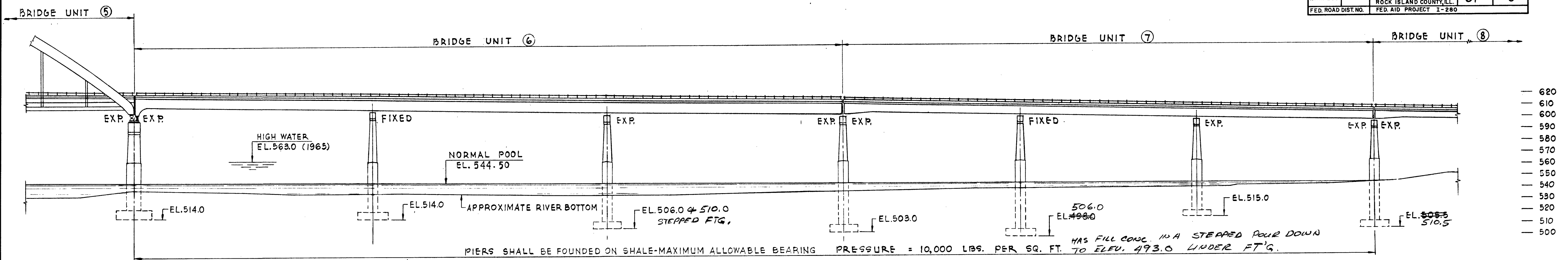
**LEGEND**  
● DENOTES BORING LOG

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY W. G. HORN  
DRAWN BY A. BUROKAS  
CHECKED J. Y. HUANG  
IN CHARGE  
APPROVED W. G. HORN

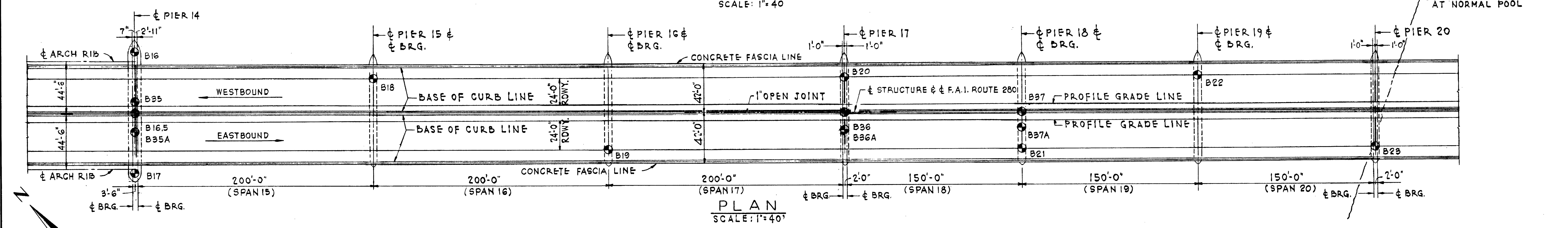
**GENERAL PLAN, ELEVATION & GROUND PLAN**  
**BRIDGE UNITS 4 & 5**  
F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 22+68.38 TO STA. 34+43.46  
SCALE: AS NOTED DATE: JULY 21, 1969



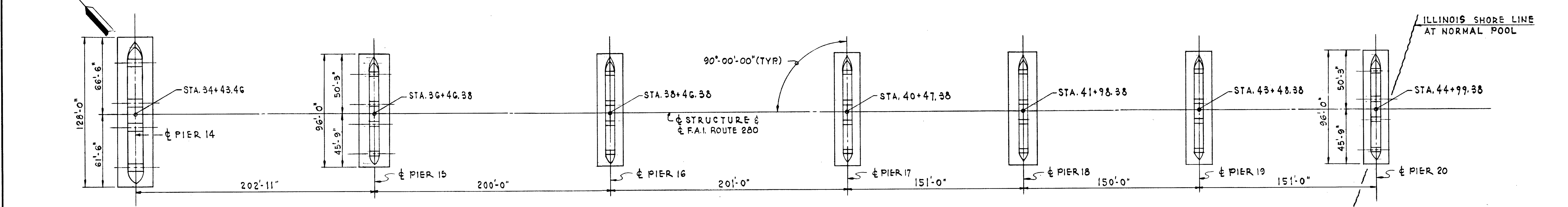
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	8
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



**ELEVATION**  
SCALE: 1"=40'



**PLAN**  
SCALE: 1"=40'



**FOOTING PLAN**  
SCALE: 1"=40'

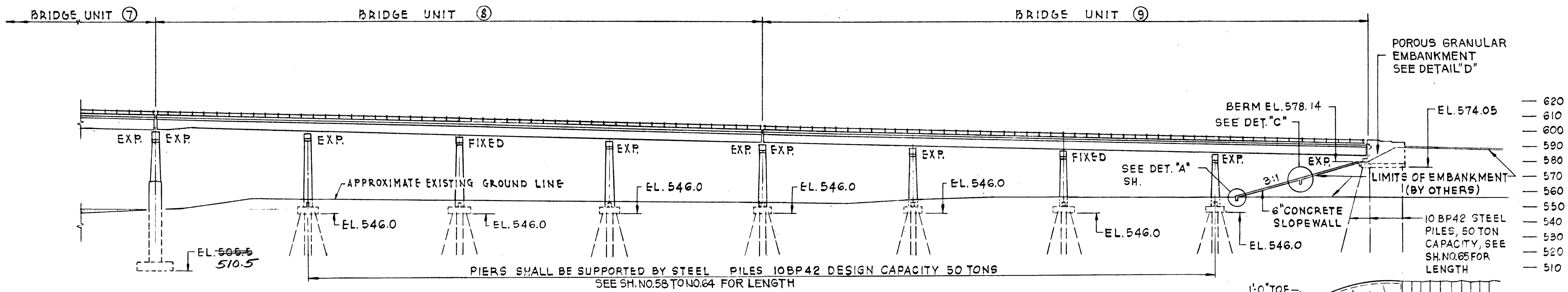
**LEGEND**  
⊕ DENOTES BORING LOG

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W. G. HORN  
DRAWN BY A. BUROKAS  
CHECKED IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

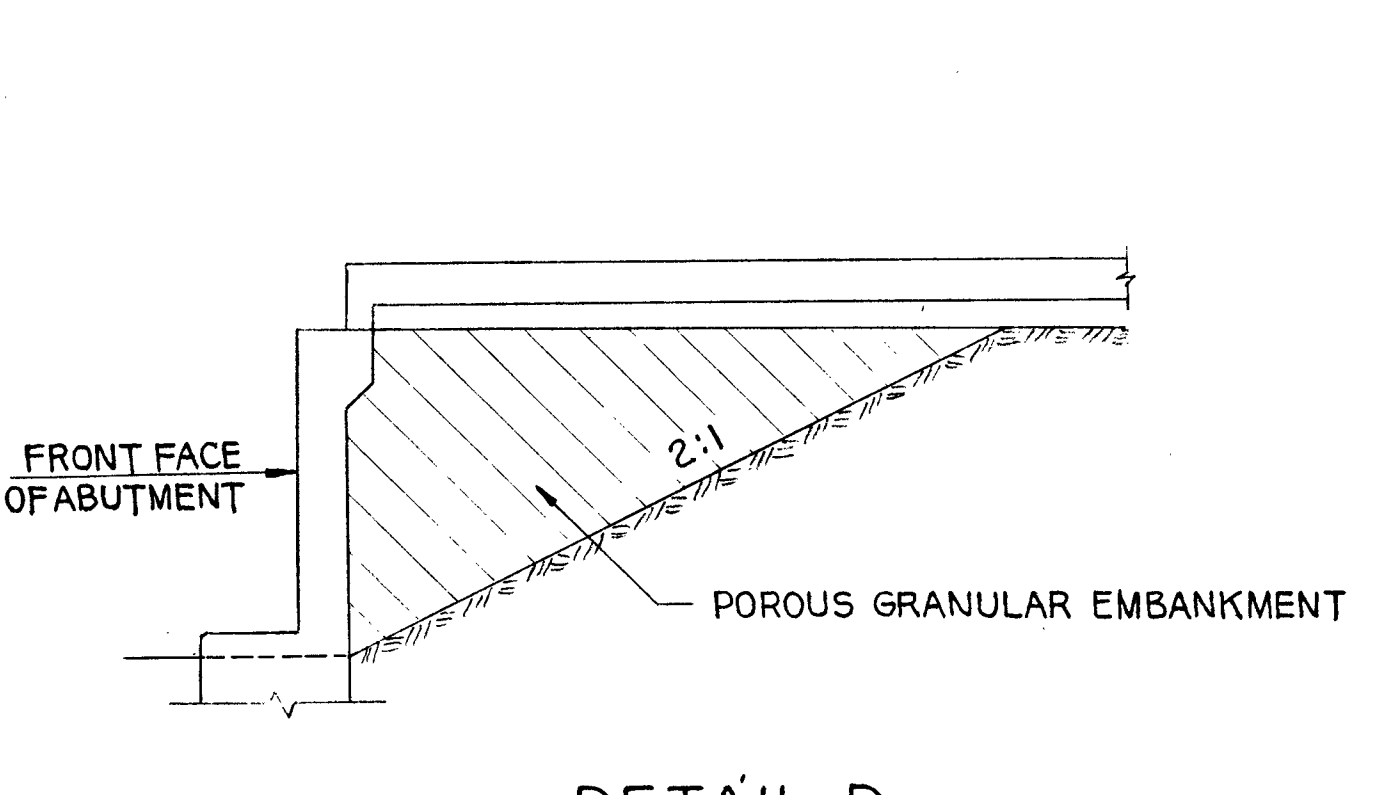
**GENERAL PLAN, ELEVATION & GROUND PLAN**  
**BRIDGE UNITS 6 & 7**  
F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 34+43.46 TO STA. 44+99.38  
SCALE: AS NOTED DATE: JULY 21, 1969



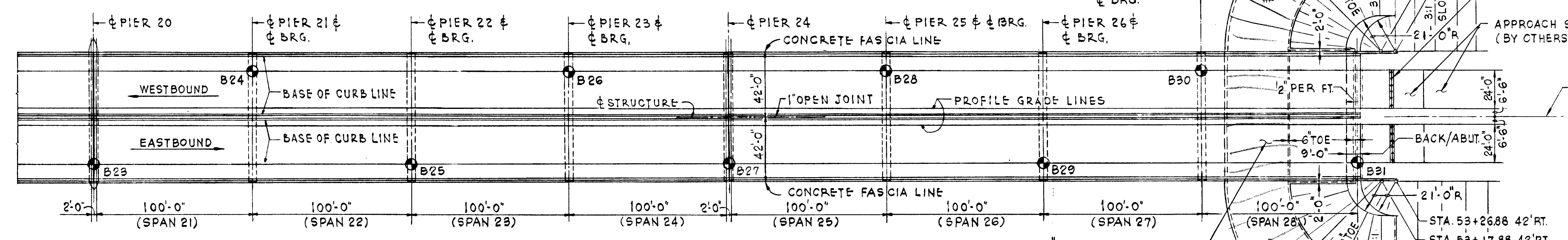
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	9
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



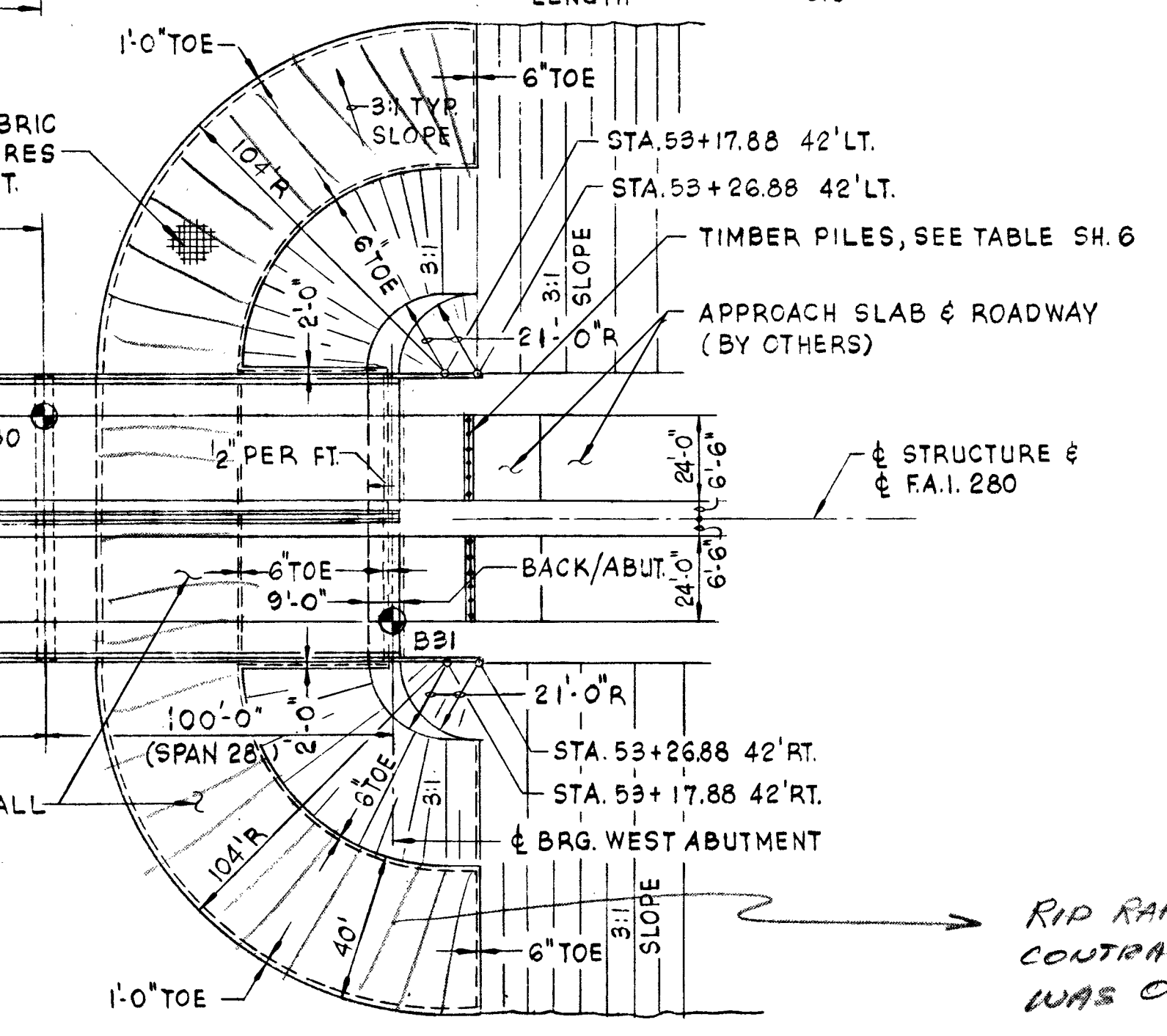
**ELEVATION**  
SCALE: 1" = 40'



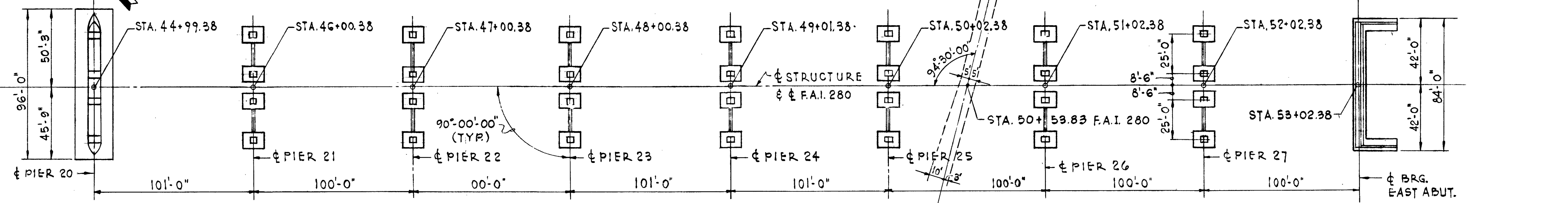
**DETAIL D**  
SCALE: 1/4" = 1'-0"  
EAST ABUTMENT SHOWN  
WEST ABUTMENT OPPOSITE HAND



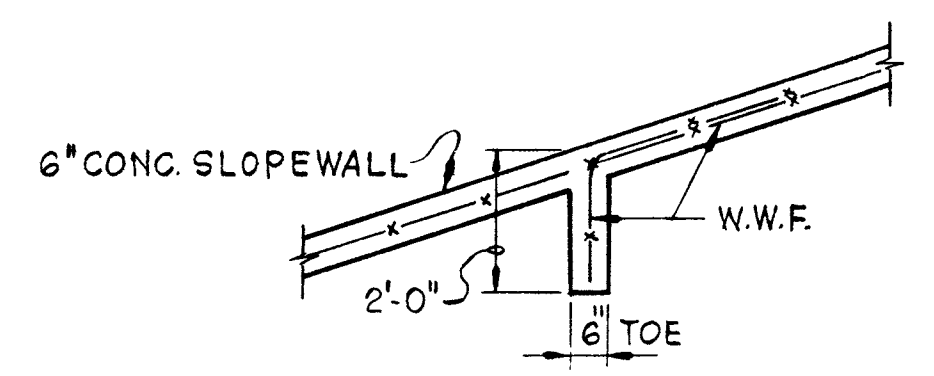
**PLAN**  
SCALE: 1" = 40'



→ RIP RAP WAS PUT IN UNDER GRADING CONTRACT, THEREFORE SLOPE WALL WAS OMITTED



**FOOTING PLAN**  
SCALE: 1" = 40'



**DETAIL C**  
SCALE: 3/8" = 1'-0"

**LEGEND**  
● DENOTES BORING LOG

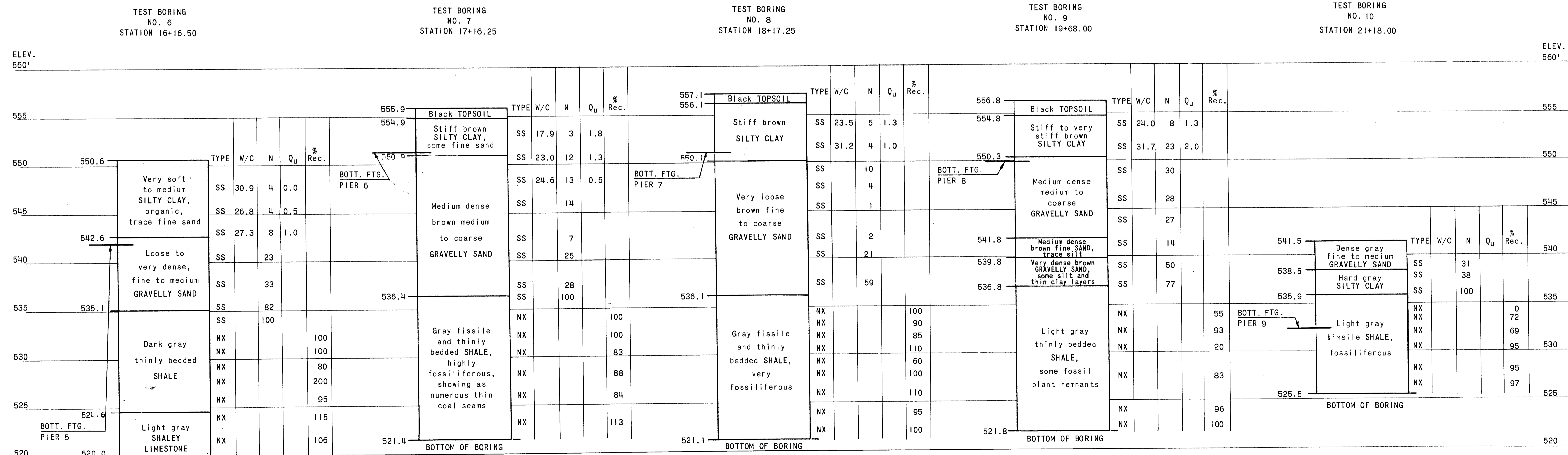
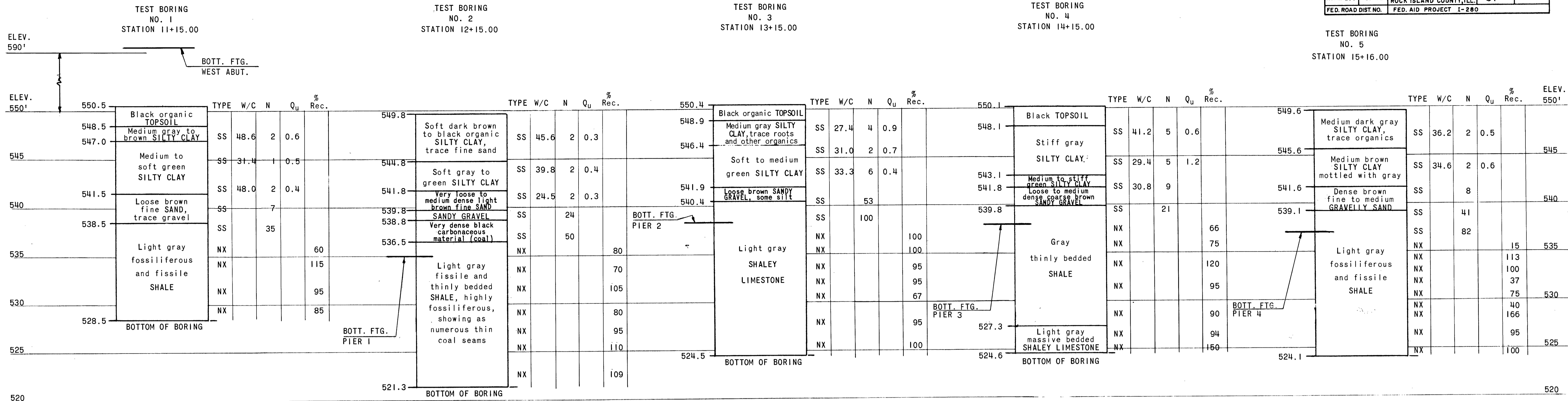
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
SLOPEWALL (6")	SQ. YD.	5835
FURNISHING CREOSOTED PILES 20.1 FEET TO 38 FEET	LIN. FT.	420
FURNISHING CREOSOTED PILES OVER 38 FEET	LIN. FT.	540
DRIVING TIMBER PILES	LIN. FT.	960
POROUS GRANULAR EMBANKMENT	CU. YD.	270

QUANTITIES SHOWN ABOVE ARE FOR EAST & WEST ABUTMENTS.

**GENERAL PLAN, ELEVATION & GROUND PLAN**  
**BRIDGE UNITS 8 & 9**  
F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 44+99.38 TO STA. 53+02.38  
SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W. G. HORN  
DRAWN BY A. BUROKAS  
CHECKED BY J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	10
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



NOTE: FOR BORING LOG NOTES, SEE TEST BORINGS SHEET NO. 11

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY \_\_\_\_\_  
 DRAWN BY H. DE PERCZEL  
 CHECKED G. C. WAY  
 IN CHARGE J. Y. HUANG  
 APPROVED W. G. HORN

**TEST BORINGS**  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969



TEST BORING  
NO. 32  
STATION 22+68.00

TEST BORING  
NO. 32A  
STATION 22+68.00

TEST BORING  
NO. 11  
STATION 22+69.75

TEST BORING  
NO. 12  
STATION 24+69.50

TEST BORING  
NO. 33A  
STATION 24+69.38

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	11
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			

TEST BORING  
NO. 33  
STATION 24+69.38

ELEV.	TEST BORING NO. 32	TEST BORING NO. 32A	TEST BORING NO. 11	TEST BORING NO. 12	TEST BORING NO. 33A	ELEV.													
540'						540'													
	TYPE	W/C	N	Q <sub>u</sub>	% Rec.		TYPE	W/C	N	Q <sub>u</sub>	% Rec.		TYPE	W/C	N	Q <sub>u</sub>	% Rec.		
535	RIVER ALLUVIUM						RIVER ALLUVIUM						Overburden soil (River alluvium)						535
530	SS		100				SS						Stiff to hard, gray weathered CLAYEY SHALE	SS		58	4.5		530
527.5	Weathered CLAYEY SHALE						527.8	W					Medium soft, gray, CLAY SHALE	NX				100	525
525	Soft to medium gray, weathered SHALE	NX			55		525.3	6X			100		Medium hard, gray SILTY SHALE	NX				4.5	100
523.0	Medium, few soft seams, gray SHALE	NX			100		523.3	6X			80		Medium hard, gray SHALE	6X				90	520
521.2	Medium stiff to stiff, gray, weathered SHALE	NX			87		520.4	6X			100		Medium hard, gray SHALE	6X				93	520
520.4	Soft, gray CLAY	NX					518.7	6X			100		Medium hard, gray SHALE	6X				98	515
BOTT. FTG. PIER 10	Medium stiff to stiff, gray, weathered SHALE						BOTT. FTG. PIER 10						Medium hard, gray SILTY SHALE						
518.7	Stiff to very stiff, gr. UNDERCLAY on hard limestone						515.3	6X			75		Medium, few soft seams, gray SHALE, slightly harder with depth	6X				98	510
515	Medium hard, gray SILTY SHALE	NX			98		514.3	6X			95		Medium, some soft seams, gray SHALE	NX				64	505
510	Soft to medium, gray SHALE	NX			76		508.3	6X			100		Medium, some soft seams, gray SHALE	NX				100	505
505	Medium, some soft seams, gray SHALE	NX			100		503.4	6X			100		Stiff, gray, interbedded CLAY and SILTY SAND	NX				1.3	2.6
500	Stiff, gray, interbedded CLAY and SILTY SAND	NX			99.8		501.8	6X			100		Medium hard, gray SANDY SHALE	NX					100
497.7	Medium to hard, few thin soft seams, gray, interbedded SILTY SHALE and SHALY SANDSTONE, few limestone seams						497.3	6X			85		Medium, hard to hard, gray SHALEY SANDSTONE, few limy streaks						85
496.7	Soft, black SHALY COAL	NX			67		496.4	6X			100		Hard, gray CONGLOMERATE						100
495	Soft to medium, gray UNDERCLAY, lime nodules at top	NX			4.5	53	495.8	6X			100		Gray limy SILTSTONE						100
490	Medium, gray CLAYEY SHALE	NX			100		495.2	6X			100		SHALE CONGLOMERATE						100
485	Medium, gray CLAYEY SHALE	NX			100		494.1	6X			100		Soft and hard black SHALEY COAL, some pyrite						100
480	Medium, gray, interbedded CLAYEY, SILTY, and SANDY SHALE	NX			96		489.8	6X			100		Medium, some soft seams, gray SHALE, few coaly streaks						100
475	Hard, light gray LIMESTONE (Devonian)	NX			100		485.4	6X			100		Medium, some soft seams, gray SHALE, few coaly streaks						100
474.2	BOTTOM OF BORING						483.9	6X			100		Medium hard to hard, dark gray SILTY SHALE	NX					100
470							481.4	6X			100		Soft, gray SHALE	NX					100
							478.5	6X			100		Hard, gray LIMESTONE	NX					100
													BOTTOM OF BORING						475

TEST BORING NOTES:

CLASSIFICATION BY VISUAL INSPECTION

W/C - WATER CONTENT

N VALUES INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 2" O.D. SAMPLING SPOON ONE FOOT, USING A 140 LB. WEIGHT FALLING FREE FOR 30 INCHES

Q<sub>u</sub> VALUES BY UNCONFINED COMPRESSION TESTS IN THE FIELD TONS/ft<sup>2</sup> OR POCKET PENETROMETER READING

% Rec. VALUES INDICATE PERCENT CORE RECOVERY FOR SHALE

SS SPLIT BARREL SAMPLER

NX 2 1/8" DIAMETER CORE BARREL

6X 5 7/8" DIAMETER CORE BARREL

FOR LOCATION OF BORINGS SEE GENERAL PLAN SHEET NO. 6, 7, 8 AND 9

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY  
DRAWN BY H. DE PERCZEL  
CHECKED BY G. C. WAY  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

TEST BORINGS  
F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969



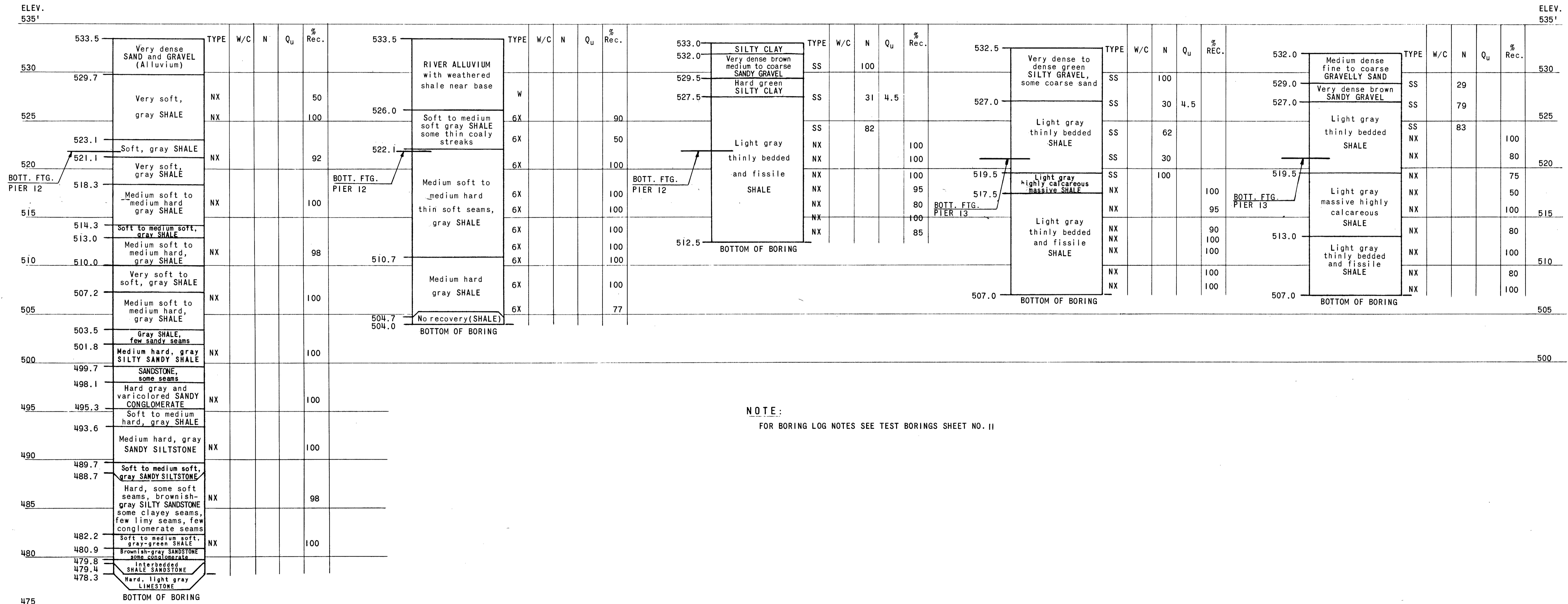
TEST BORING  
NO. 34  
STATION 26+69.38

TEST BORING  
NO. 34A  
STATION 26+69.38

TEST BORING  
NO. 13  
STATION 26+69.50

TEST BORING  
NO. 14  
STATION 28+71.75

TEST BORING  
NO. 15  
STATION 28+71.75



NOTE:  
FOR BORING LOG NOTES SEE TEST BORINGS SHEET NO. 11

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY \_\_\_\_\_  
DRAWN BY H. DE PERCZEL  
CHECKED G. C. WAY  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

TEST BORINGS  
F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969







TEST BORING  
NO. 21  
STATION 41+95.00

TEST BORING  
NO. 22  
STATION 43+45.00

TEST BORING  
NO. 23  
STATION 44+95.75

TEST BORING  
NO. 24  
STATION 45+96.50

TEST BORING  
NO. 25  
STATION 46+96.50

ELEV.	TEST BORING NO.	STATION	DESCRIPTION	TYPE	W/C	N	Q <sub>u</sub>	% Rec.	ELEV.
555'									555'
550									550
545									545
540									540
535									535
530									530
525									525
520									520
515									515
510									510
505									505
500									500
495									495

NOTE:  
FOR BORING LOG NOTES SEE TEST BORINGS SHEET NO. 11

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY \_\_\_\_\_  
DRAWN BY H. DE PERCZEL  
CHECKED G. C. WAY  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

TEST BORINGS  
F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

TEST BORING  
NO. 26  
STATION 47+96.50

TEST BORING  
NO. 27  
STATION 48+97.25

TEST BORING  
NO. 28  
STATION 49+97.25

TEST BORING  
NO. 29  
STATION 50+97.25

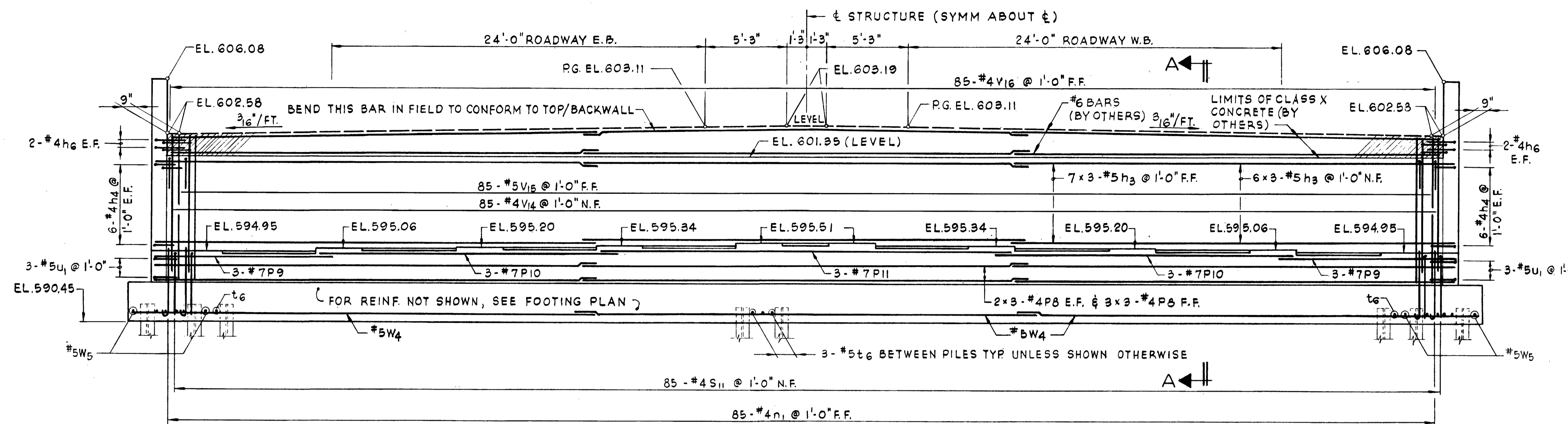
TEST BORING  
NO. 30  
STATION 51+97.25

TEST BORING  
NO. 31  
STATION 52+98.00

		555.0					555.0					555.0					555.0					555.0					555.0								
		TYPE W/C N Qu % Rec.					TYPE W/C N Qu % Rec.					TYPE W/C N Qu % Rec.					TYPE W/C N Qu % Rec.					TYPE W/C N Qu % Rec.					TYPE W/C N Qu % Rec.								
550	551.3	SS	42.6	2	0.5		551.4	SS	33.0	0.4	4		551.0	SS	31.6	5		552.2	SS	20.8	4		551.7	SS	22.5	4	0.7		551.2	SS	32.1	5	0.7		
	546.3	SS	45.0	3			546.5	SS	29.5	0.1	3		549.2	SS	25.5	5	1.8	549.2	SS	25.9	7	0.6	547.7	SS	25.1	9	1.6		547.7	SS	27.2	11	1.8		
545	544.3	SS	35.7	3			544.4	SS	26.3		26		544.0	SS	24.6	3	0.2	544.2	SS	31.2	6	0.6	543.7	SS	13.9	9			544.7	SS		7			
540	540.3	SS		11			541.4	SS			16		543.0	SS		14		544.2	SS		6		543.7	SS		13			544.7	SS		10			
535		SS		24			541.4	SS			17		535.0	SS		11		544.2	SS		9		543.7	SS		14			544.7	SS		13			
		SS		14			541.4	SS			100		535.0	SS		18		544.2	SS		26		543.7	SS		100			544.7	SS		34			
		SS		52			541.4	SS			12		535.0	SS		50		544.2	SS		17		543.7	SS		31.6	11		544.7	SS		25.7	16	2.7	
530	531.3	SS	22.8	10	1.0		531.4	SS	37.4		14		532.2	SS	32.0	8	1.9	532.2	SS	32.0	17	0.6	534.2	SS	35.0	16		530.2	SS	27.9	11	0.4			
525		SS	21.2	13	1.0		526.4	SS	25.7		60		527.0	SS	24.4	8	0.8	532.2	SS	33.3	21	2.3	529.7	SS	26.2	14	1.8		530.2	SS	26.3	13	1.2		
		SS	31.3	32			526.4	SS			35		527.0	SS	23.7	11	1.0	532.2	SS	23.3	9	1.9	529.7	SS	25.0	11	2.7		530.2	SS	21.4	12	1.6		
520		SS		61			526.4	SS			75		523.0	SS	25.1	12	2.7	532.2	SS	35.6	10	1.2	523.7	SS	23.9	18			521.7	SS	26.7	13	1.2		
		SS		83			526.4	SS			50		523.0	SS	38.5	11	3.7	532.2	SS	31.4	14	2.3	523.7	SS		11			521.7	SS		31			
515		SS		23			526.4	SS			16		519.5	SS	33.2	78	2.3	532.2	SS	32.2	42	0.5	519.7	SS		53			521.7	SS		78			
		SS		100			526.4	SS			62		519.5	SS	15.7	32		532.2	SS	31.4	28		519.7	SS		31			521.7	SS		72	4.5		
510		NX			0		513.6	NX			30		514.3	NX			80	513.7	NX		36		513.2	NX		90			514.2	NX		85			
		NX			70		513.6	NX			115		514.3	NX			120	513.7	NX			95	513.2	NX		120			514.2	NX		65			
		NX			260		513.6	NX			70		514.3	NX			80	513.7	NX			25	513.2	NX		100			514.2	NX		140			
		NX			100		513.6	NX			0		514.3	NX			80	513.7	NX			170	513.2	NX		300			514.2	NX		100			
		NX			80		513.6	NX			78		514.3	NX			30	505.7	NX			104	513.2	NX		100			514.2	NX		100			
505							503.6					504.3						505.7					503.7					504.2							
	504.8						503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7					503.7					504.2							
							503.6					504.3						505.7																	



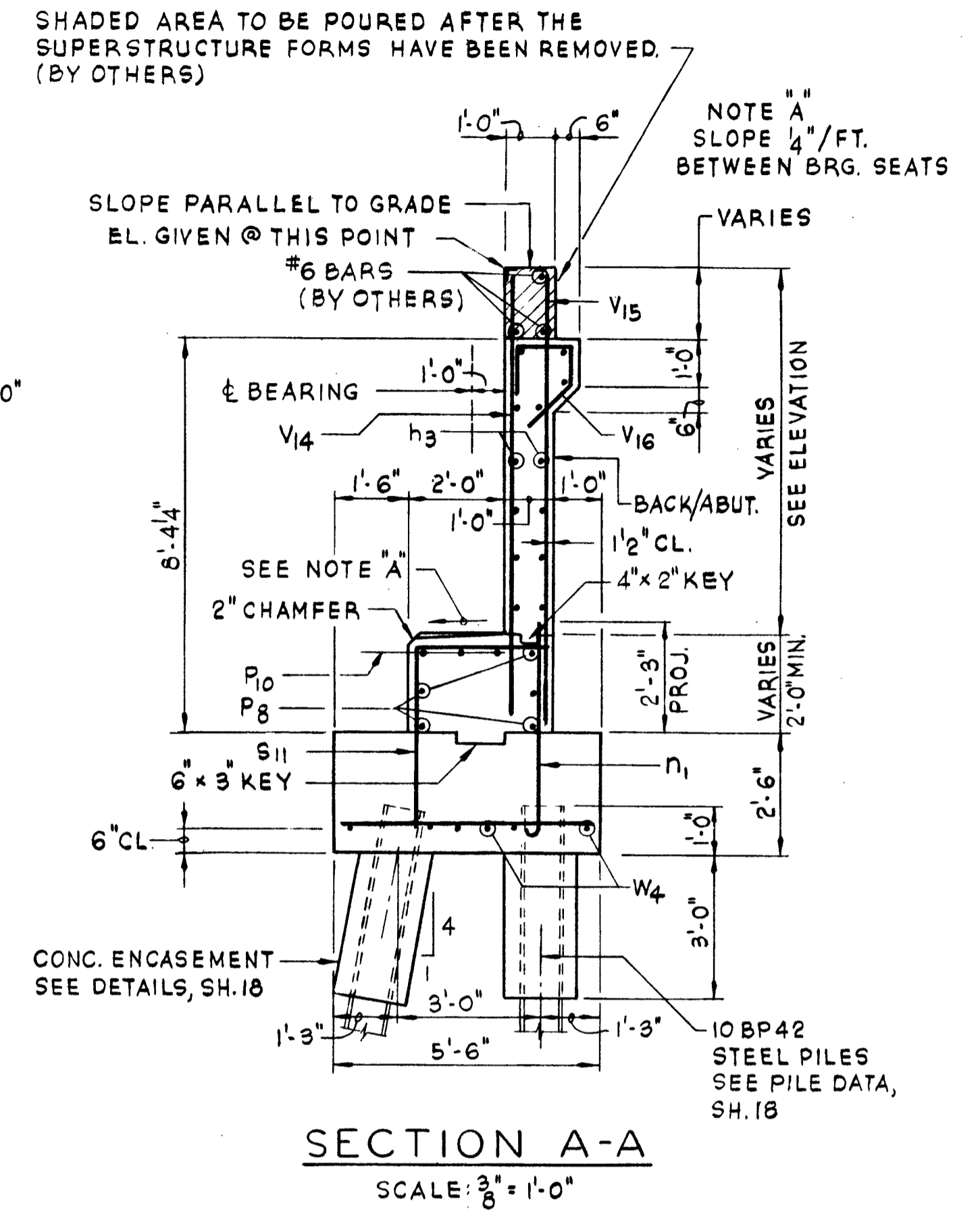
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	17
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



ABBREVIATIONS  
 N.F. = NEAR FACE  
 F.F. = FAR FACE  
 E.F. = EACH FACE

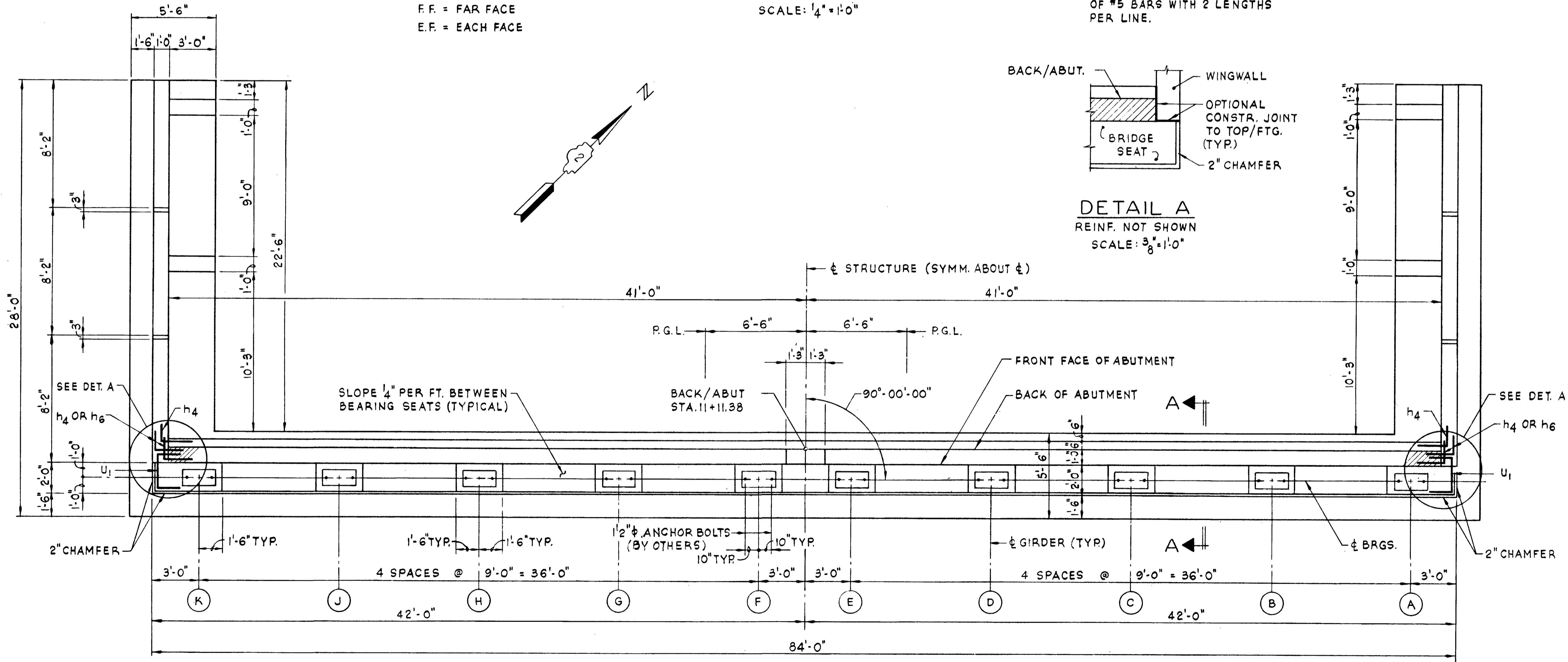
**ELEVATION**  
 SCALE: 1/4" = 1'-0"

KEY TO BAR INDICATION  
 4x2-#5 INDICATES 4 LINES OF #5 BARS WITH 2 LENGTHS PER LINE.

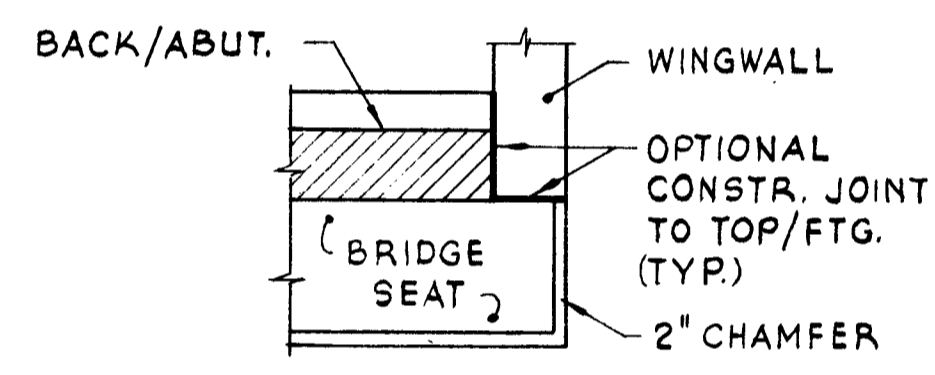


**SECTION A-A**  
 SCALE: 3/8" = 1'-0"

NOTES:  
 SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS, WHICH SHALL BE FURNISHED AND SET BY OTHERS. ALL EDGES TO HAVE STANDARD 3/4" CHAMFER EXCEPT AS NOTED. POUR STEPS MONOLITHICALLY WITH ABUTMENT SEAT. ALL BAR DIMENSIONS ARE OUT TO OUT. MIN. BAR LAP 24 DIA. UNLESS OTHERWISE NOTED. WORK THIS SHEET WITH SH.18



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



**DETAIL A**  
 REINF. NOT SHOWN  
 SCALE: 3/8" = 1'-0"

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU. YD.	192
CLASS X CONCRETE	CU. YD.	133.8
CLASS X CONCRETE ENCASEMENT	CU. YD.	12.0
REINFORCEMENT BARS	POUND	9000
FURNISH STEEL PILES (10 BP42)	LIN. FT.	2820
TEST PILE STEEL (10 BP42)	EACH	1
DRIVING STEEL PILES	LIN. FT.	2820
NAME PLATE	EACH	1

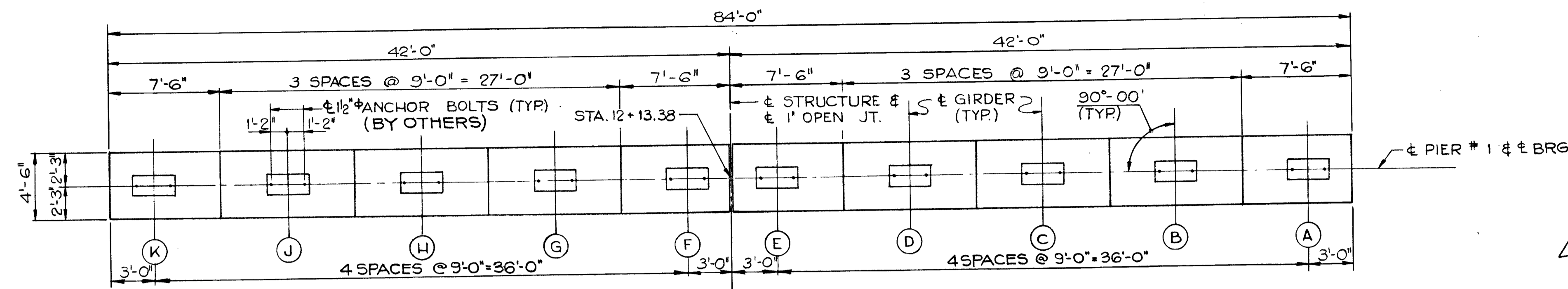
**WEST ABUTMENT  
 PLAN & ELEVATION**  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY J.Y. HUANG, W.Y. HUO  
 DRAWN BY J.N. LESLIE  
 CHECKED BY [Signature]  
 IN CHARGE J.Y. HUANG  
 APPROVED W.G. HORN

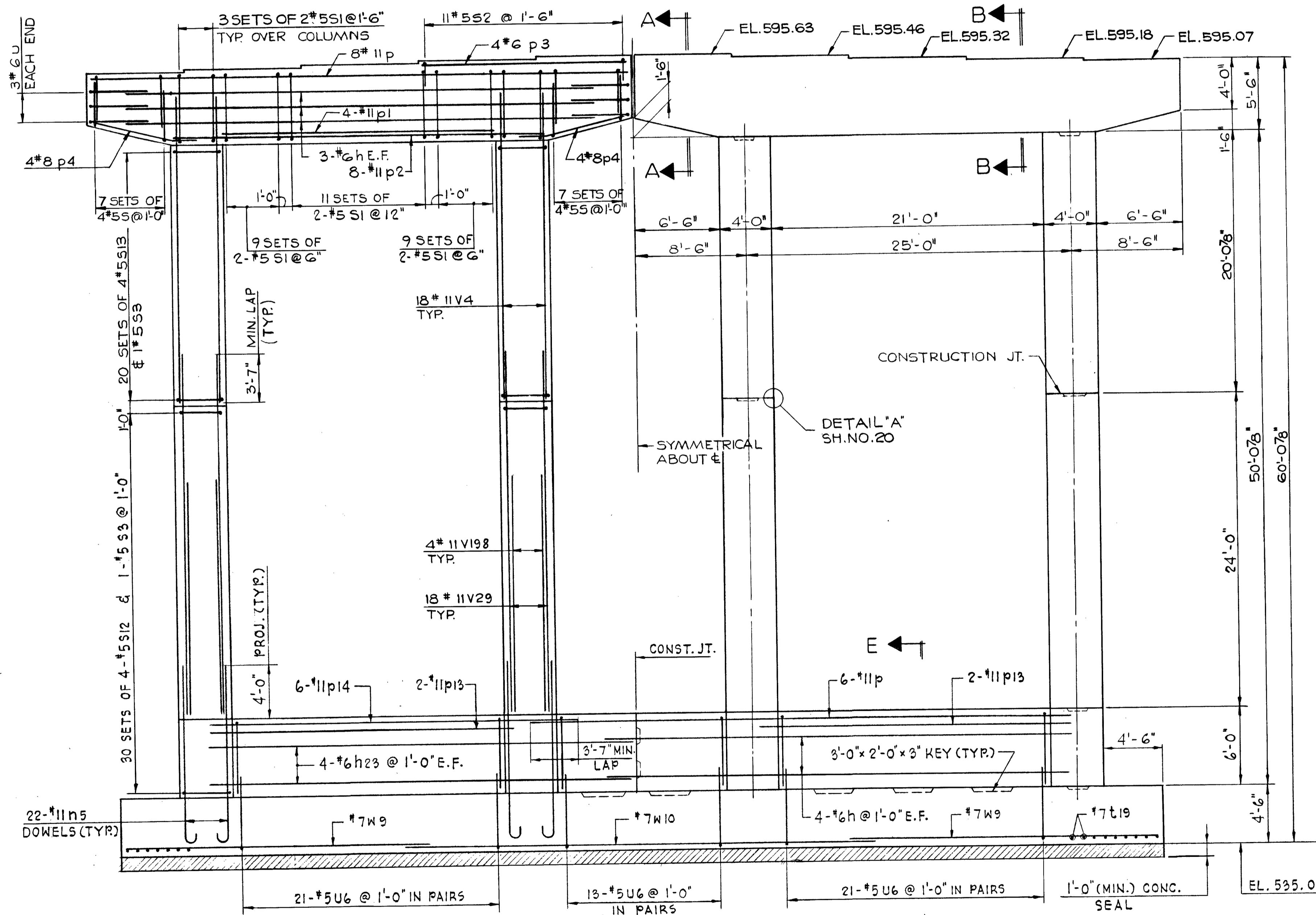




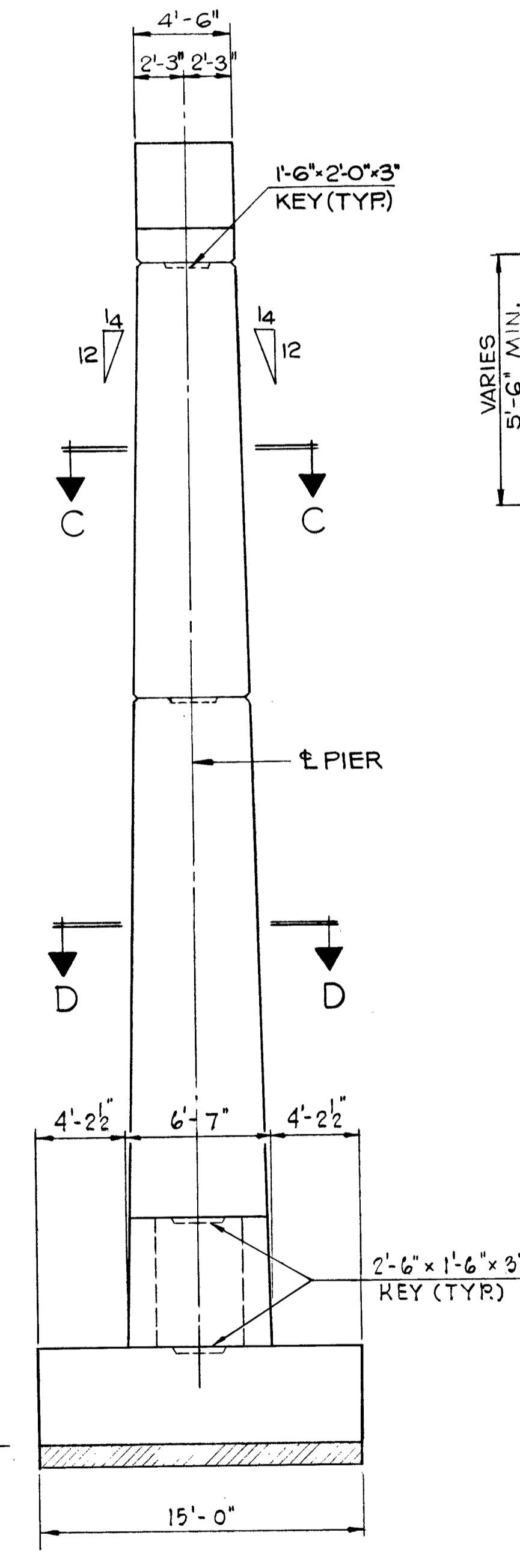
ROUTE NO/SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	19
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



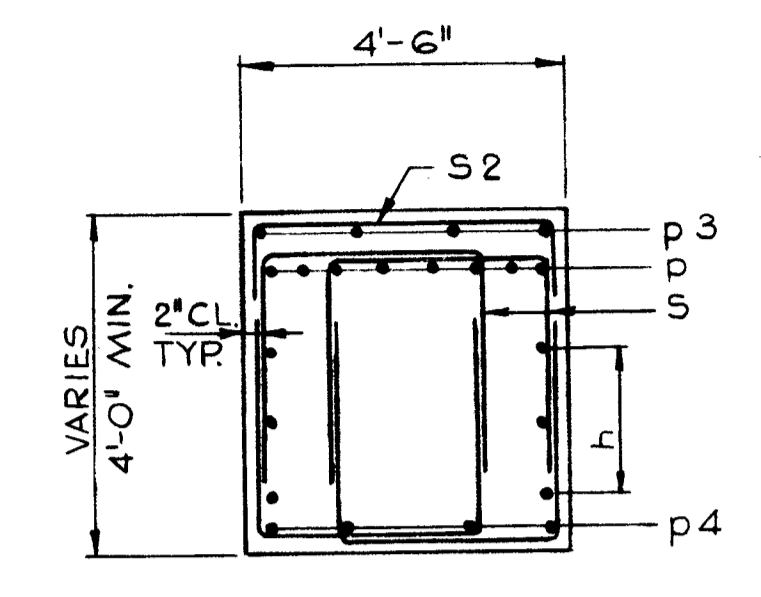
PLAN  
SCALE: 3/16" = 1'-0"



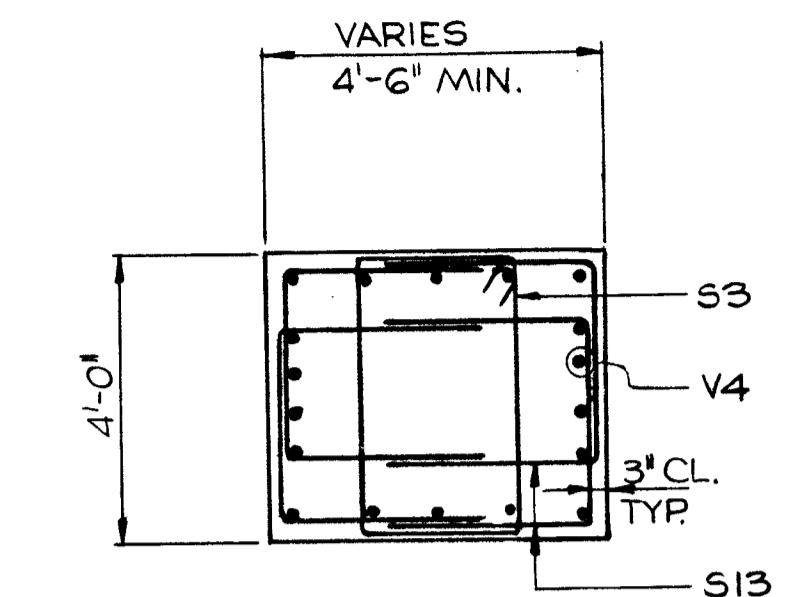
ELEVATION  
SCALE: 3/16" = 1'-0"



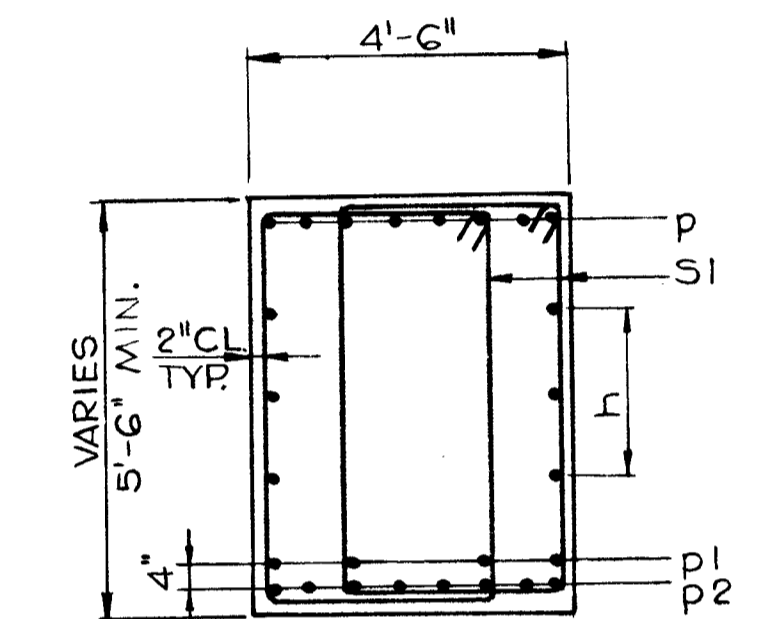
END ELEVATION  
SCALE: 3/16" = 1'-0"



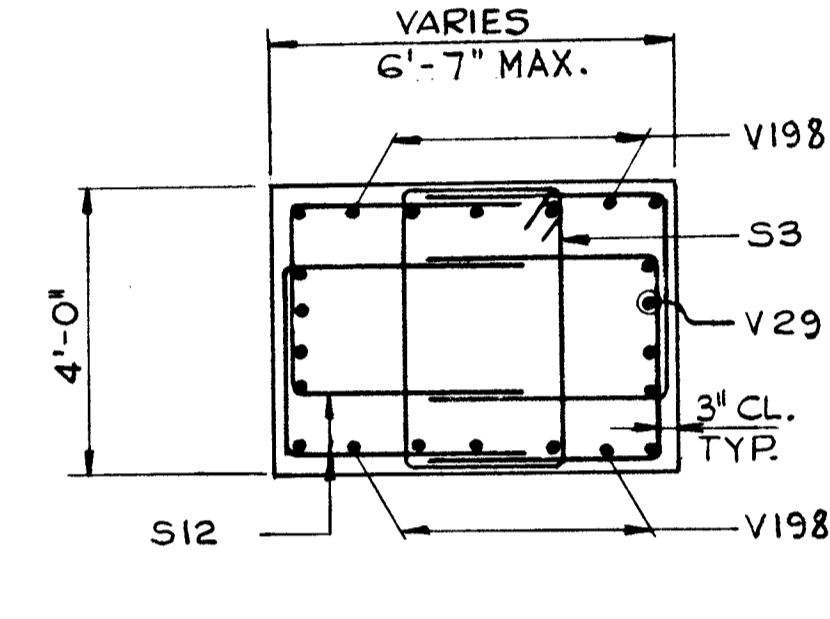
SECTION A-A  
SCALE: 3/8" = 1'-0"



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



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



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

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU. YD.	284
CLASS B EXCAVATION FOR STRUCTURE	CU. YD.	503
ROCK EXCAV FOR STR.	CU. YD.	112
CLASS X CONCRETE	CU. YD.	491.2
REINFORCEMENT BARS	POUND	62070
CONCRETE SEAL	SQ. YD.	133.4

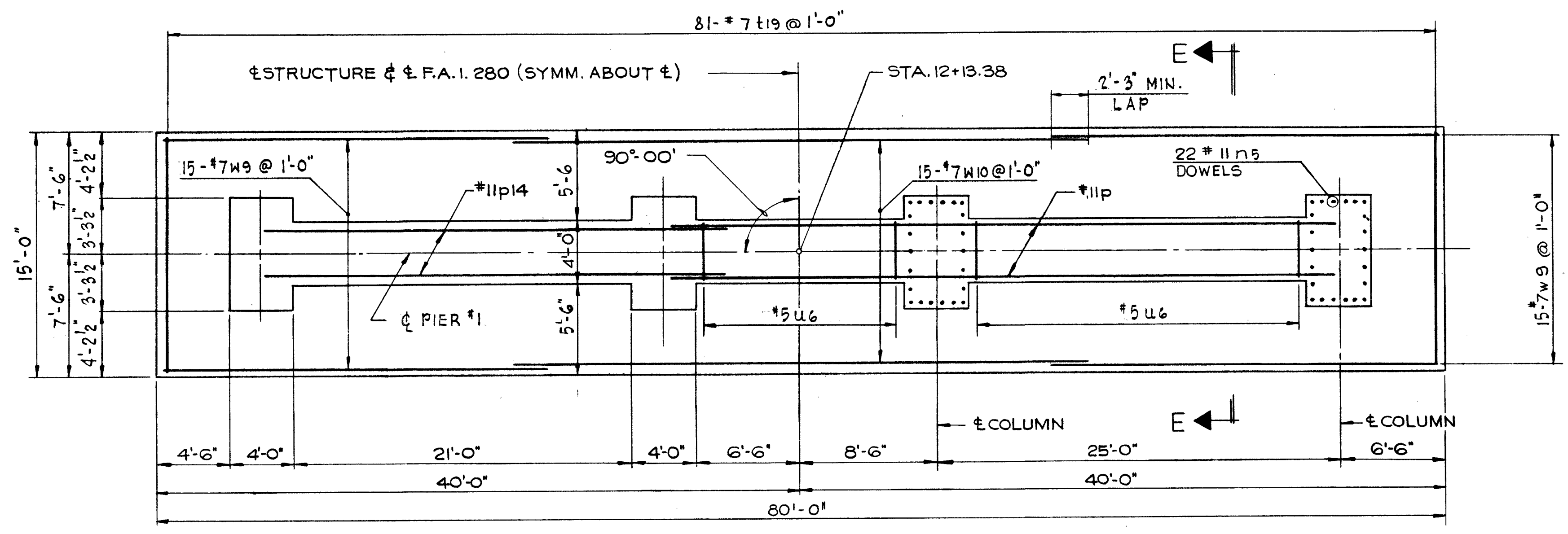
NOTES:  
 1. SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED & SET BY OTHERS.  
 2. ALL EDGES TO HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.  
 3. POUR STEPS MONOLITHICALLY WITH CAP.  
 4. ALL BAR DIMENSIONS ARE OUT TO OUT.  
 5. MIN. BAR LAP - 24 DIA. UNLESS OTHERWISE NOTED.  
 6. MAX. BEARING PRESSURE ON SHALE 6.06 KIPS/SQ. FT. FOR A.A.S.H.O. GROUP III LOADING AT 125%.  
 7. WORK THIS SHEET WITH SH. NO. 20.

PIER I  
PLAN & ELEVATIONS

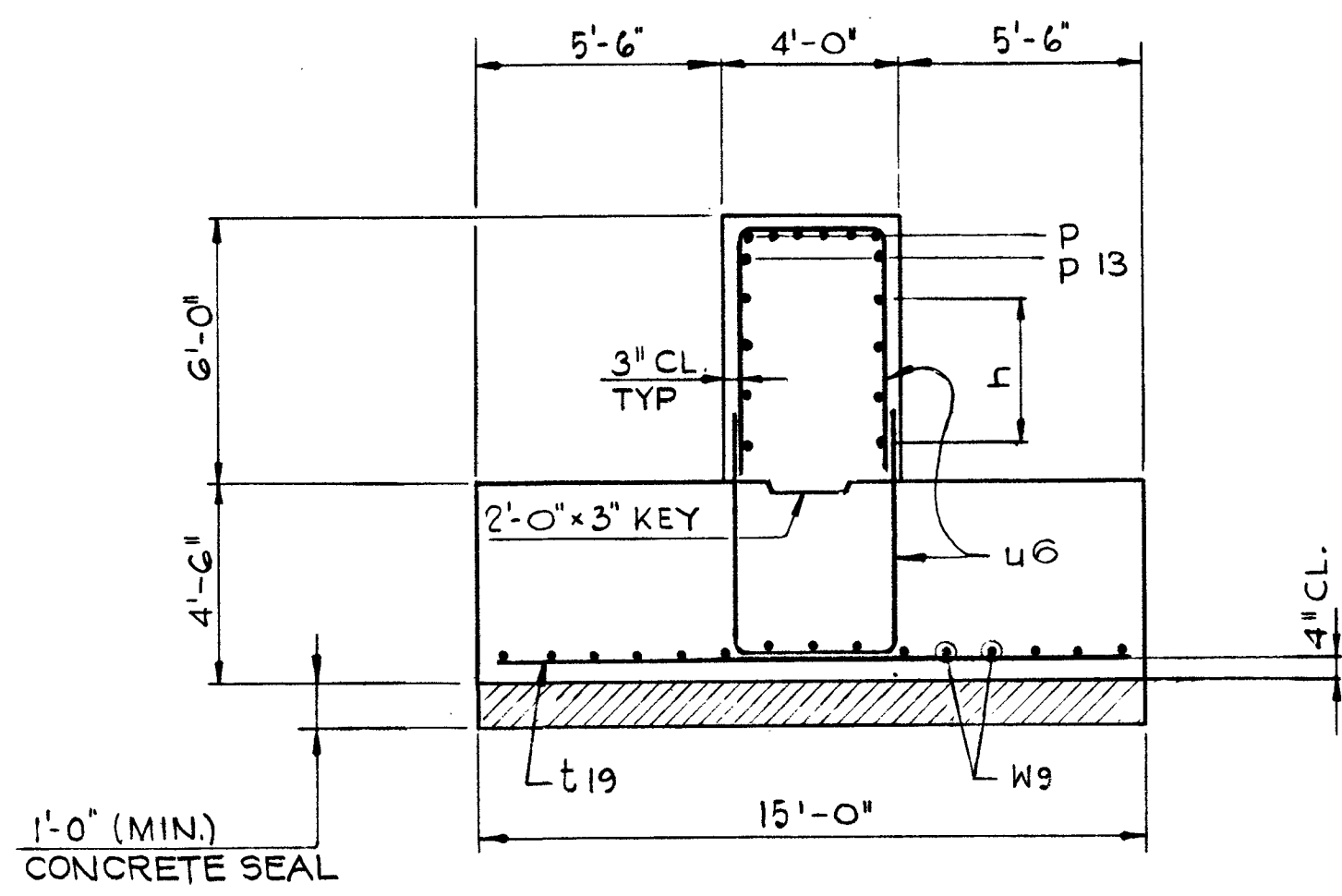
F.A.I. ROUTE 280 SECTION 81-18  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY S. RASHID  
 DRAWN BY S. MUELLER  
 CHECKED [Signature]  
 IN CHARGE J. Y. HUANG  
 APPROVED W. G. HORN

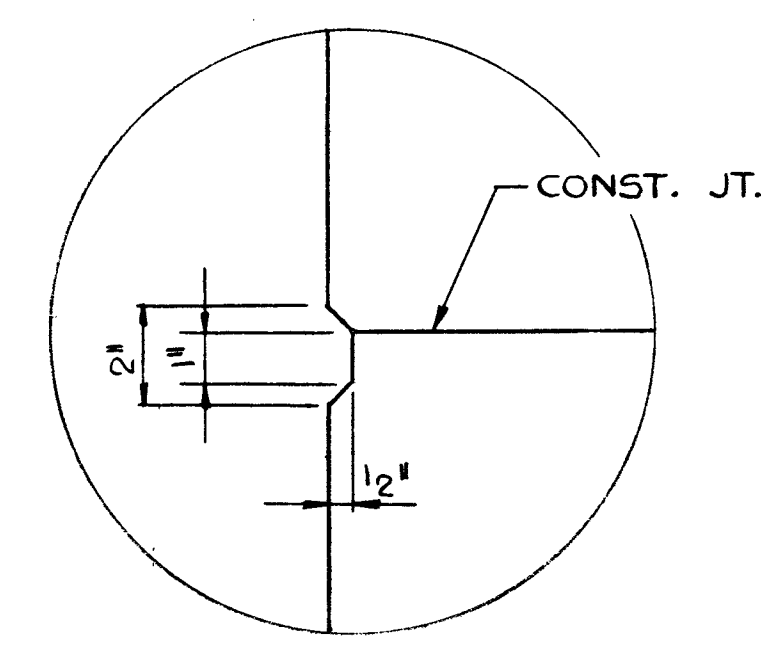
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	20
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



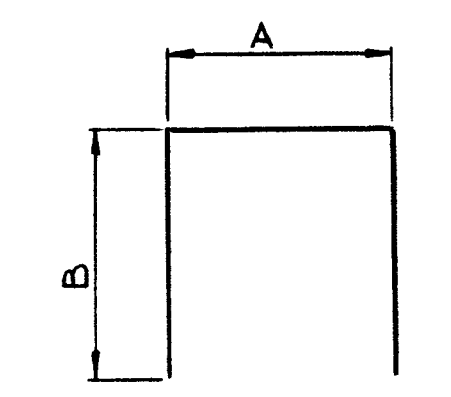
FOOTING PLAN  
SCALE: 3/16" = 1'-0"



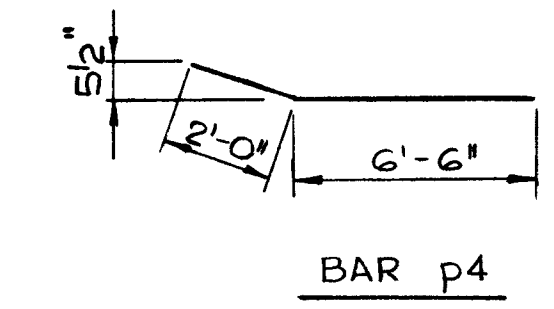
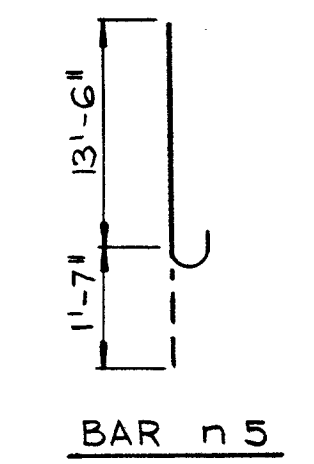
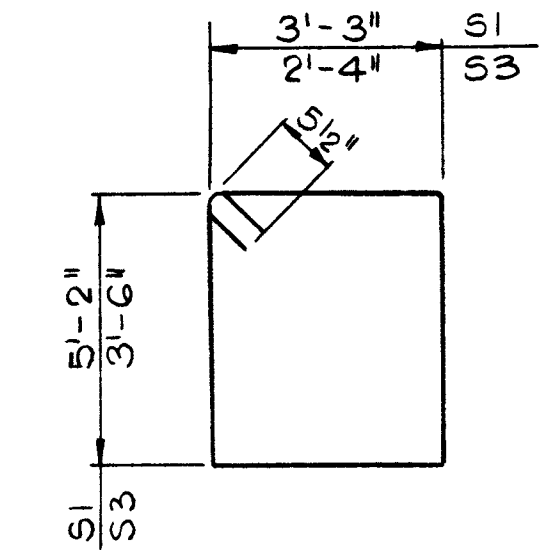
SECTION E-E  
SCALE: 1/4" = 1'-0"



DETAIL A  
SCALE: 1/4" = 1'



BAR	A	B
S	3'-3"	3'-3"
S2	4'-2"	1'-6"
S12	3'-0"	3'-10"
S13	3'-0"	3'-2"
U	4'-1"	4'-6"
UG	3'-6"	5'-9"



BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	20	6	36'-0"	—
h23	8	6	32'-6"	—
n5	88	11	15'-1"	—
p	22	11	41'-6"	—
p1	8	11	21'-0"	—
p2	16	11	29'-0"	—
p3	8	6	16'-0"	—
p4	16	8	8'-6"	—
p14	6	11	29'-6"	—
p13	4	11	24'-6"	—
S	112	5	9'-9"	□
S1	140	5	17'-9"	□
S2	22	5	7'-2"	□
S3	200	5	12'-7"	□
S12	480	5	10'-8"	□
S13	320	5	9'-4"	□
t19	81	7	14'-6"	—
U	12	6	13'-1"	□
UG	110	5	15'-0"	□
v4	72	11	24'-0"	—
V198	16	11	18'-0"	—
V29	72	11	28'-0"	—
w9	30	7	24'-0"	—
w10	15	7	36'-0"	—

NOTE: WORK THIS SHEET WITH SHEET NO. 19

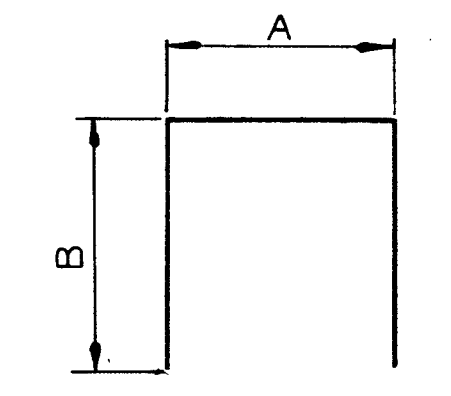
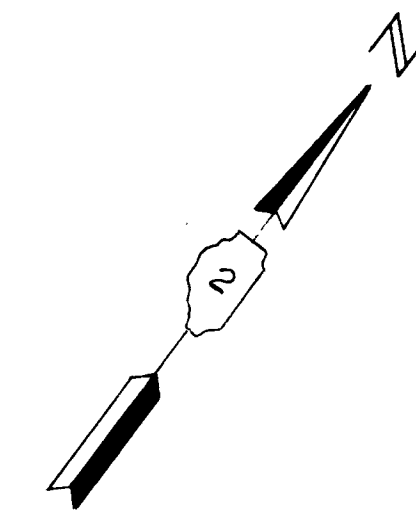
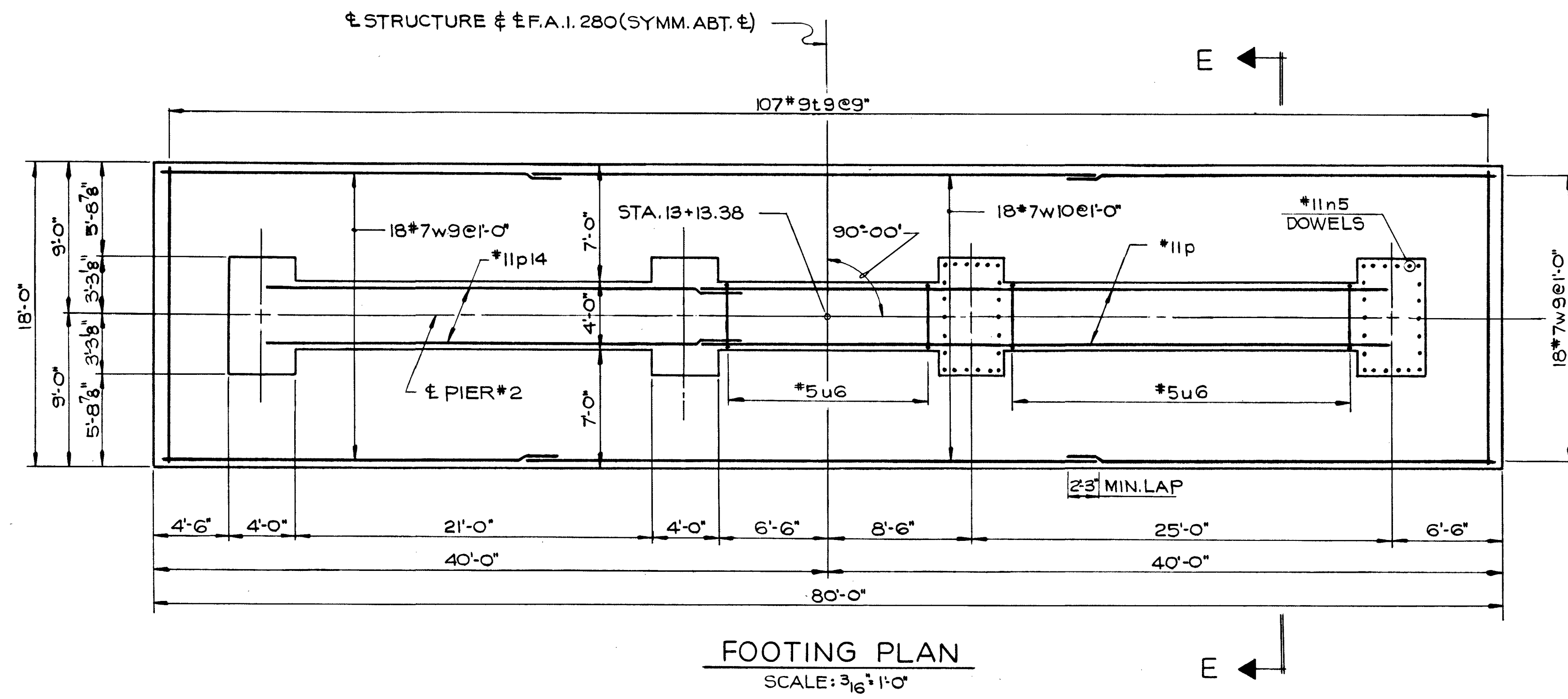
DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY S. RASHID  
 DRAWN BY S. MUELLER  
 CHECKED [Signature]  
 IN CHARGE J. Y. HUANG  
 APPROVED W. G. HORN

PIER I  
 FOOTING  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969



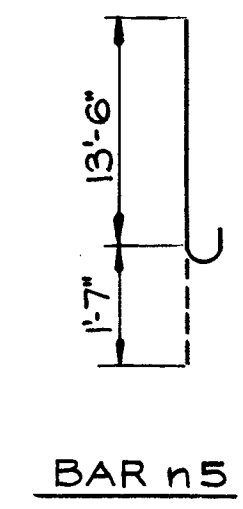
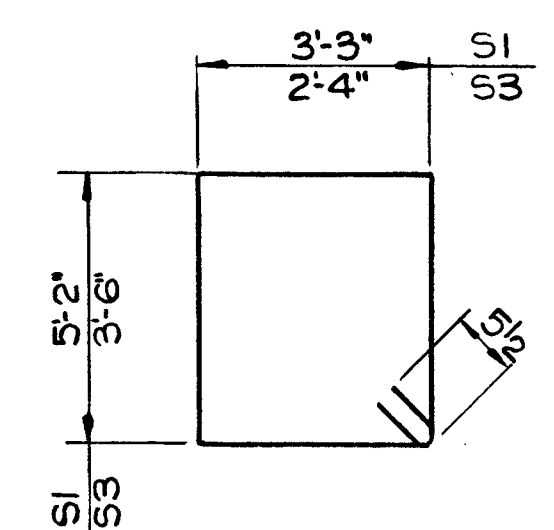


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	22
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			

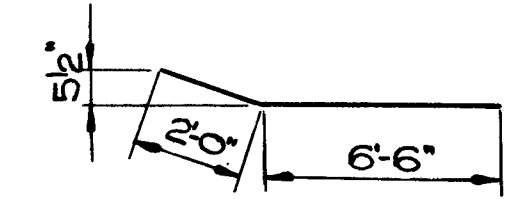


BAR	A	B
S	3'-3"	3'-3"
S2	4'-2"	1'-6"
S12	3'-0"	3'-10"
S13	3'-0"	3'-2"
u	4'-0"	4'-6"
u6	3'-6"	5'-9"

BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	20	6	36'-0"	—
h23	8	6	32'-6"	—
n5	88	11	15'-1"	U
p	22	11	41'-6"	—
p1	8	11	21'-0"	—
p2	16	11	29'-0"	—
p3	8	6	16'-0"	—
p4	16	8	8'-6"	—
p13	8	11	24'-6"	—
p14	6	11	29'-6"	—
S	112	5	9'-9"	—
S1	140	5	17'-9"	—
S2	22	5	7'-2"	—
S3	196	5	12'-7"	—
S12	448	5	10'-8"	—
S13	336	5	9'-4"	—
t9	107	9	17'-6"	—
u	12	6	13'-1"	—
u6	110	5	15'-0"	—
V4	72	11	24'-0"	—
V36	72	11	26'-0"	—
V196	16	11	21'-3"	—
w9	36	7	24'-0"	—
w10	18	7	36'-0"	—

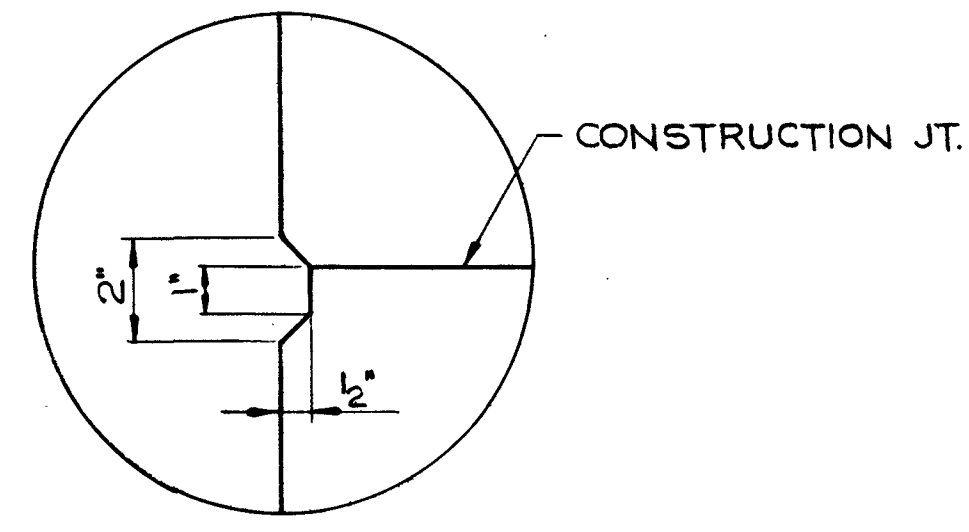
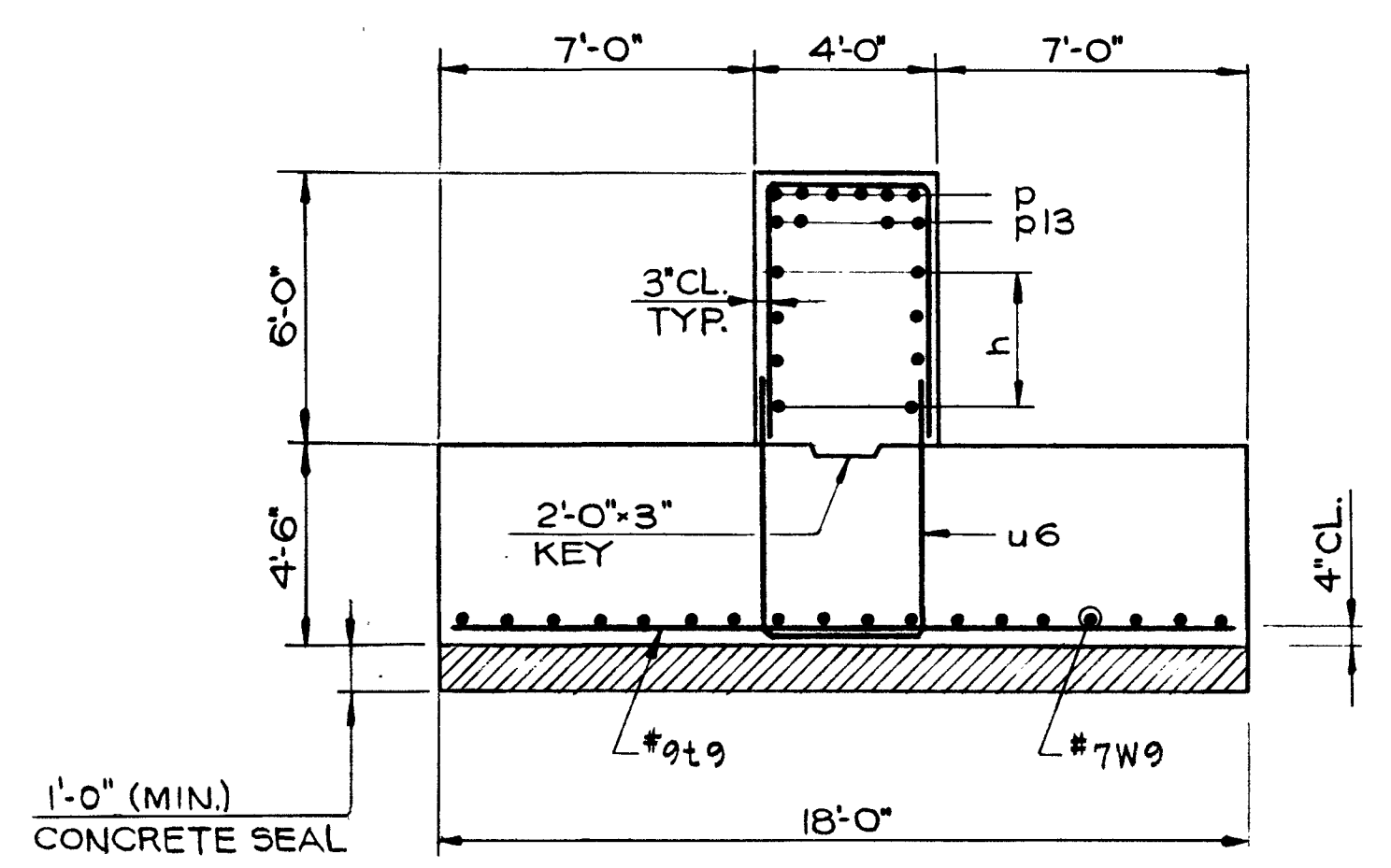


BAR n5



BAR p4

NOTE: WORK THIS SHEET WITH SHEET NO. 21.

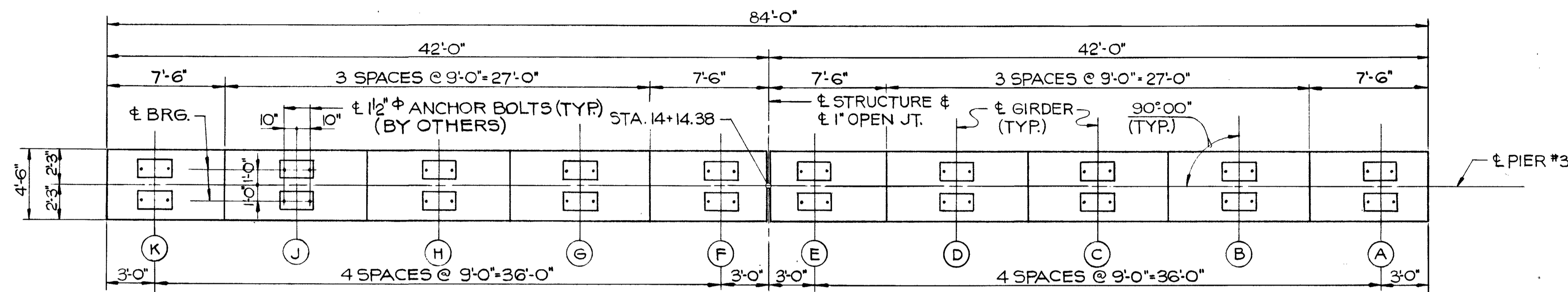


DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY S. RASHID  
 DRAWN BY P. POPOVIC  
 CHECKED J. Y. HUANG  
 IN CHARGE  
 APPROVED W. G. HORN

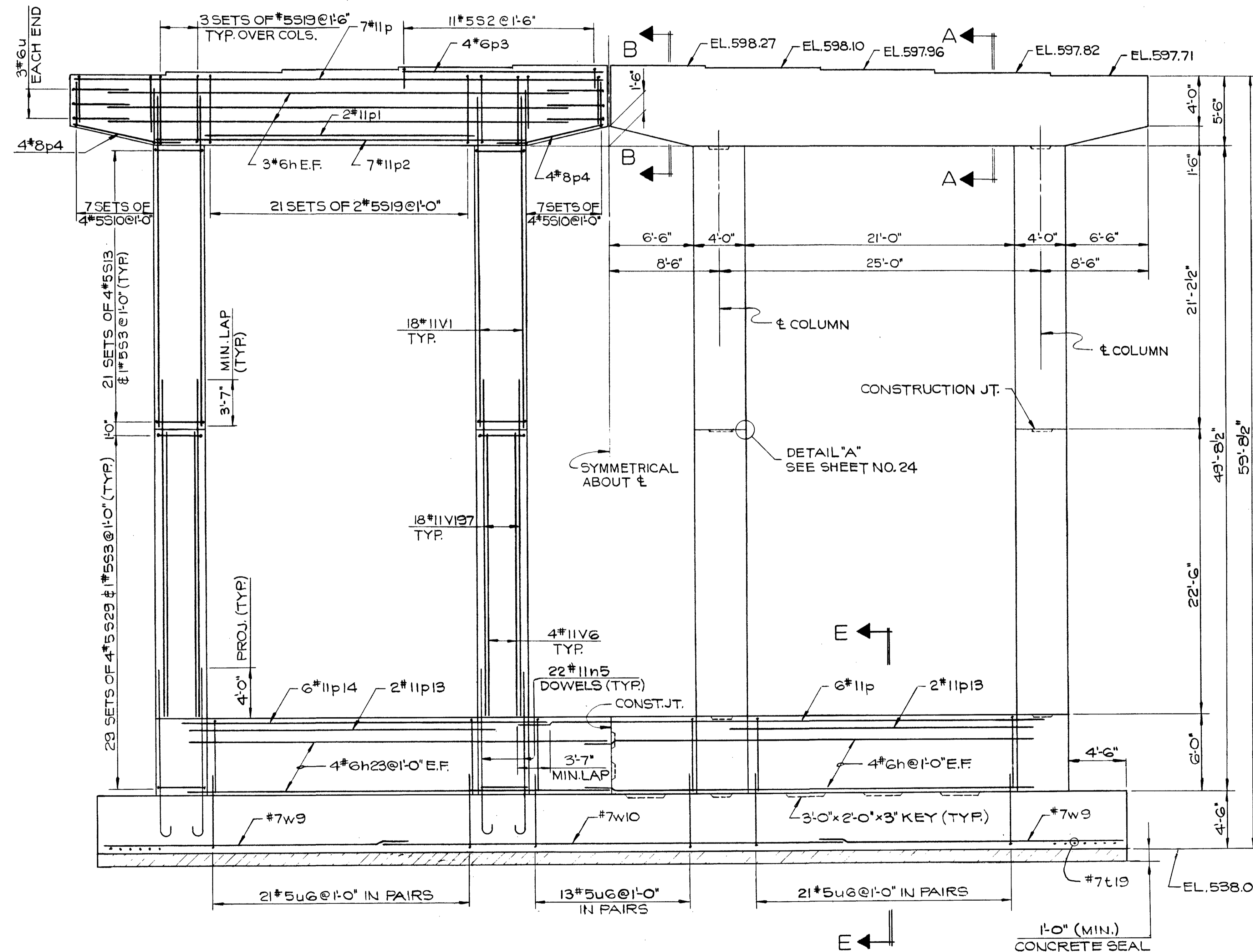
PIER 2  
 FOOTING  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1968



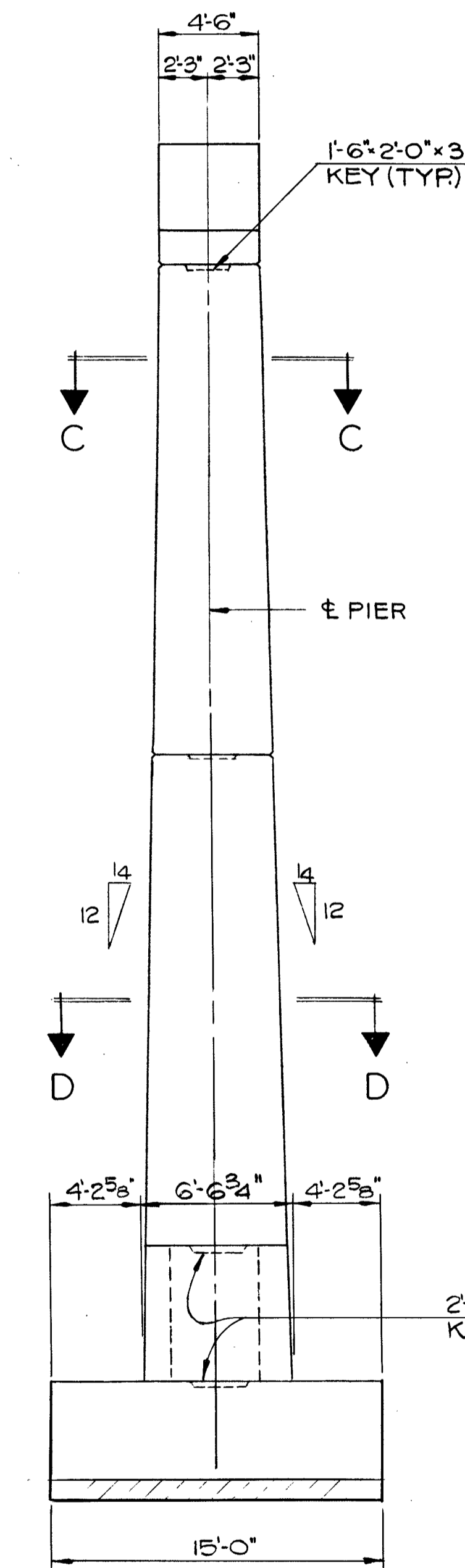
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	23
FED. ROAD DIST. NO.	FED. AID PROJECT		I-280	



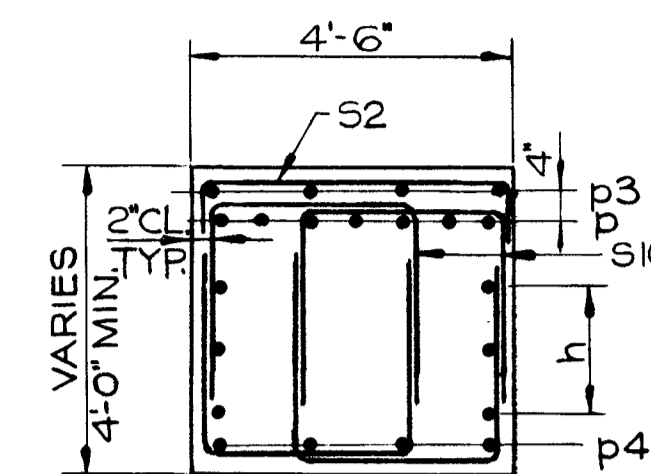
PLAN  
SCALE: 3/16"=1'-0"



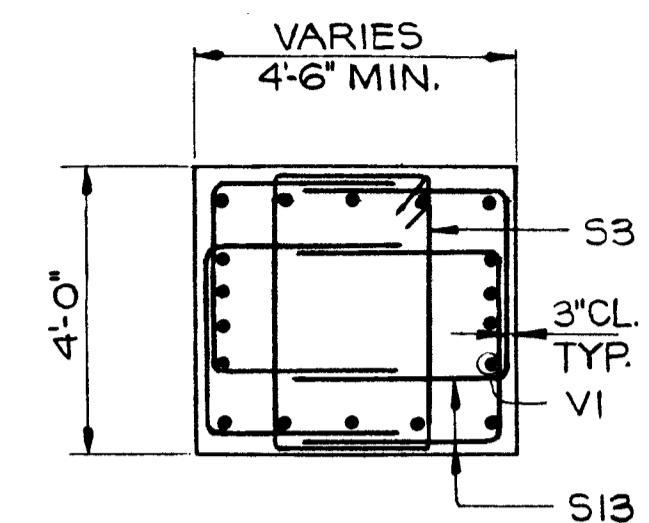
ELEVATION  
SCALE: 3/16"=1'-0"



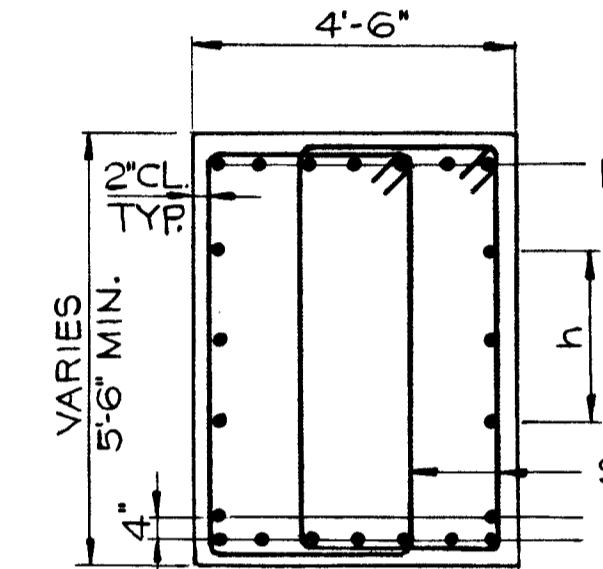
END ELEVATION  
SCALE: 3/16"=1'-0"



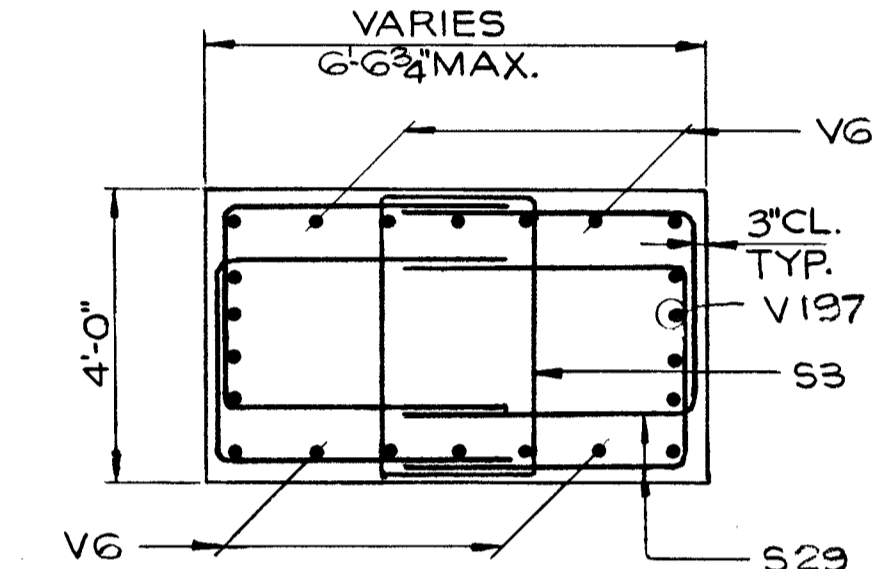
SECTION B-B  
SCALE: 3/8"=1'-0"



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



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



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

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU.YD.	301
CLASS B EXCAVATION FOR STRUCTURE	CU.YD.	307
ROCK EXCAV For Str.	CU.YD.	125
CLASS X CONCRETE	CU.YD.	489.8
REINFORCEMENT BARS	POUND	61360
CONCRETE SEAL	SQ.YD.	133.3

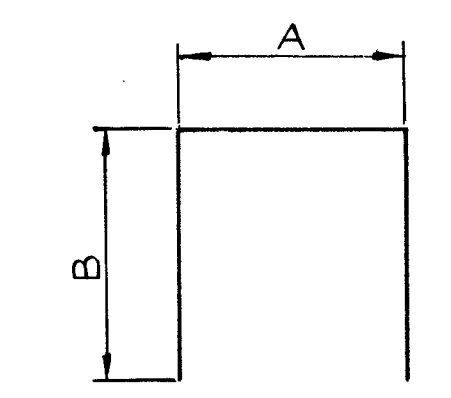
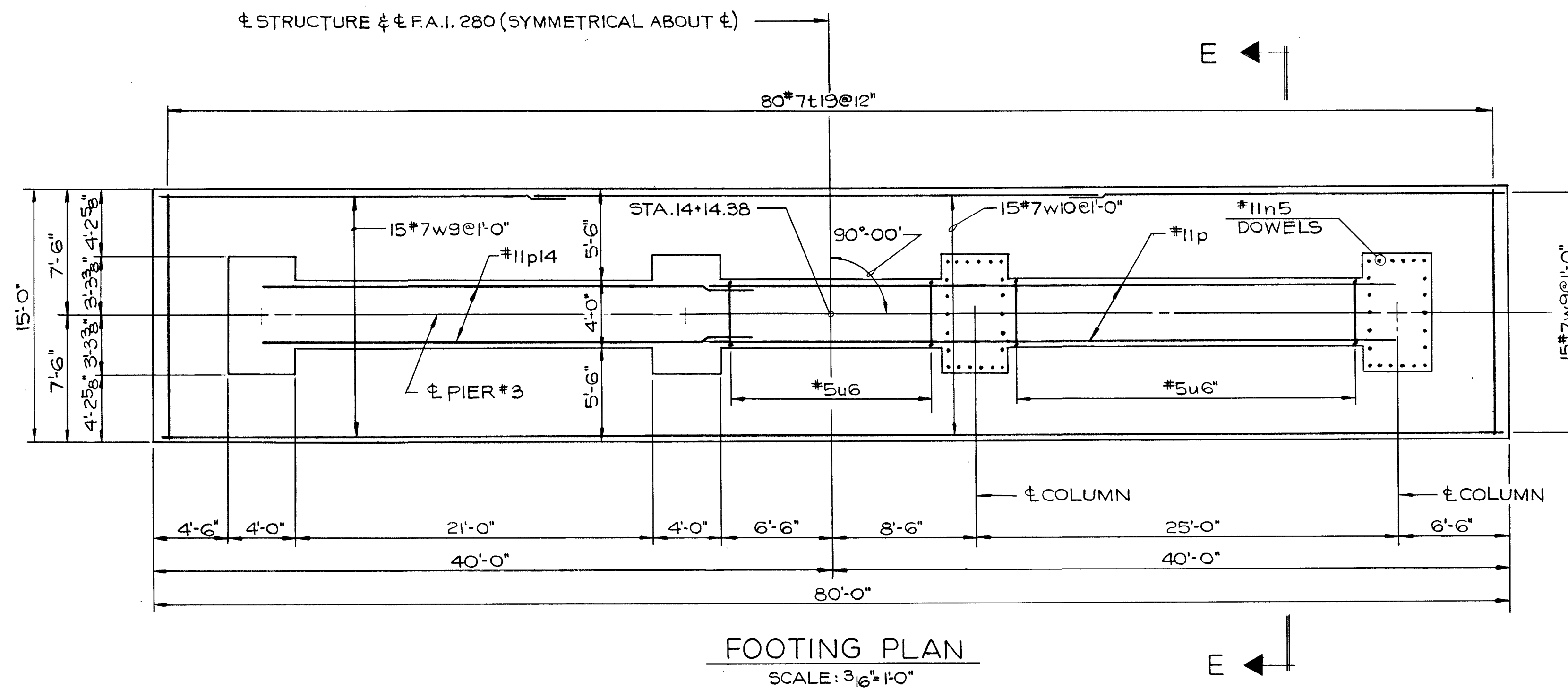
NOTES:

- SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED & SET BY OTHERS.
- ALL EDGES TO HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.
- FOUR STEPS MONOLITHICALLY WITH CAP.
- ALL BAR DIMENSIONS ARE OUT TO OUT.
- MIN. BAR LAP - 24 DIA. UNLESS OTHERWISE NOTED.
- MAX. BEARING PRESSURE ON SHALE 5.03 KIPS/SQ. FT. FOR A.A.S.H.O. GROUP III LOADING AT 125%.
- WORK THIS SHEET WITH SHEET NO. 24.

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY S. RASHID  
 DRAWN BY P. POPOVIC  
 CHECKED J. Y. HUANG  
 IN CHARGE J. Y. HUANG  
 APPROVED W. G. HORN

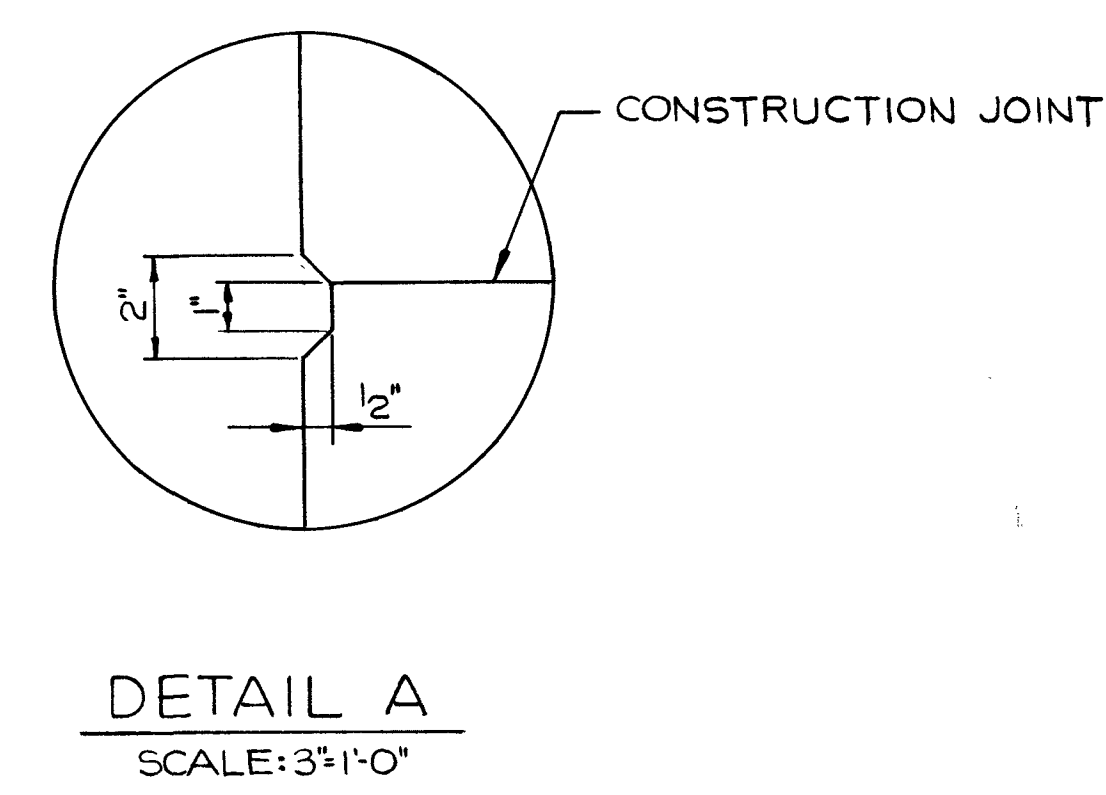
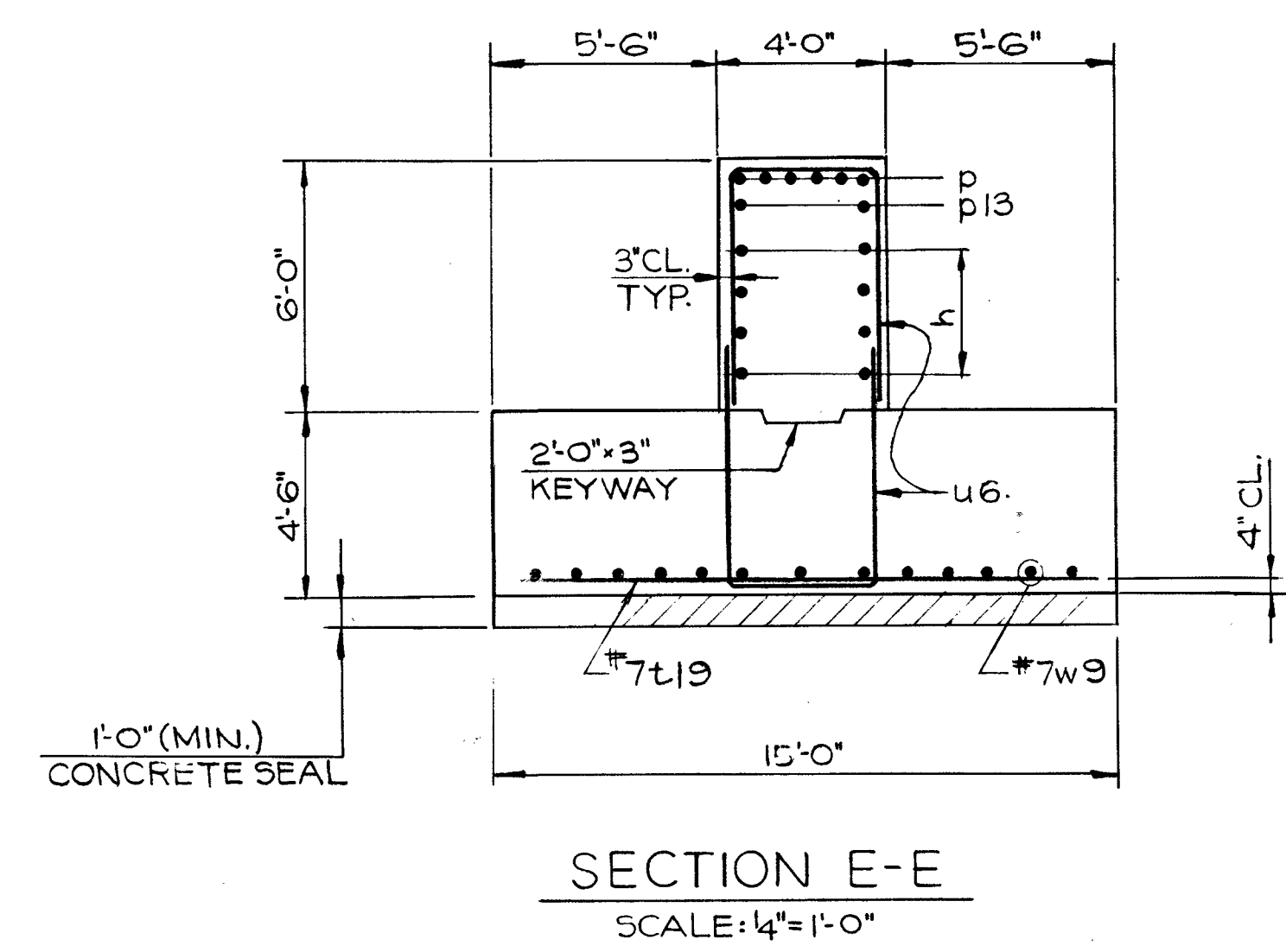
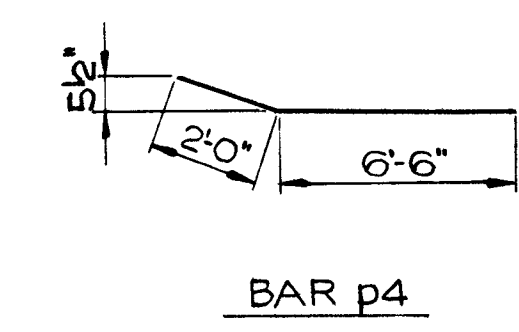
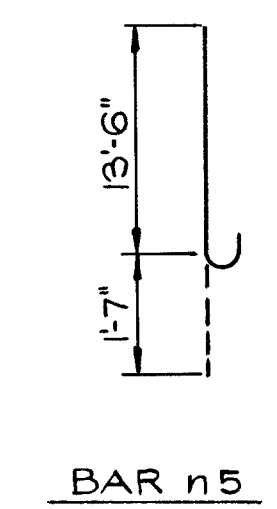
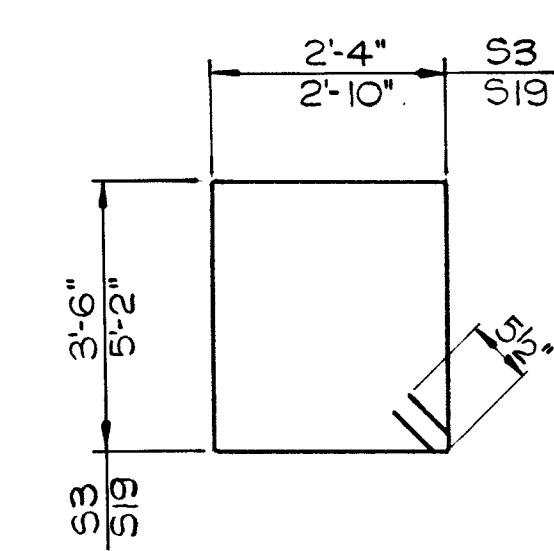
PIER 3  
 PLAN & ELEVATIONS  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	24
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



BAR	A	B
S2	4'-2"	1'-6"
S13	3'-0"	3'-2"
S10	2'-10"	3'-3"
S29	3'-0"	3'-9"
u	4'-1"	4'-6"
u6	3'-6"	5'-9"

BAR LIST				
BAR NO.	SIZE	LENGTH	SHAPE	
h	20	6	36'-0"	—
h23	8	6	32'-6"	—
n5	88	11	15'-1"	—
p	20	11	41'-6"	—
p1	4	11	21'-0"	—
p2	14	11	29'-0"	—
p3	8	6	16'-0"	—
p4	16	8	8'-6"	—
p13	4	11	24'-6"	—
p14	6	11	29'-6"	—
S3	200	5	12'-7"	—
S13	336	5	9'-4"	—
S10	112	5	9'-4"	—
S19	108	5	16'-11"	—
S29	464	5	10'-6"	—
S2	22	5	7'-2"	—
t19	80	7	14'-6"	—
u	12	6	13'-1"	—
u6	110	5	15'-0"	—
V1	72	11	25'-0"	—
V197	72	11	26'-6"	—
V6	16	11	22'-0"	—
w9	30	7	24'-0"	—
w10	15	7	36'-0"	—

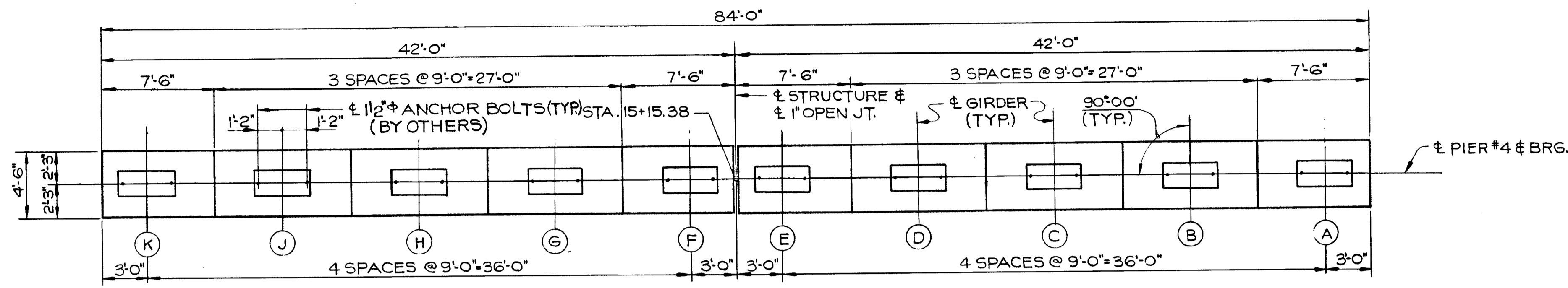
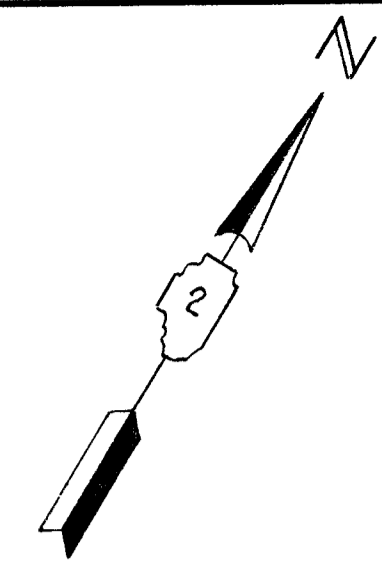


NOTE: WORK THIS SHEET WITH SHEET NO. 23.

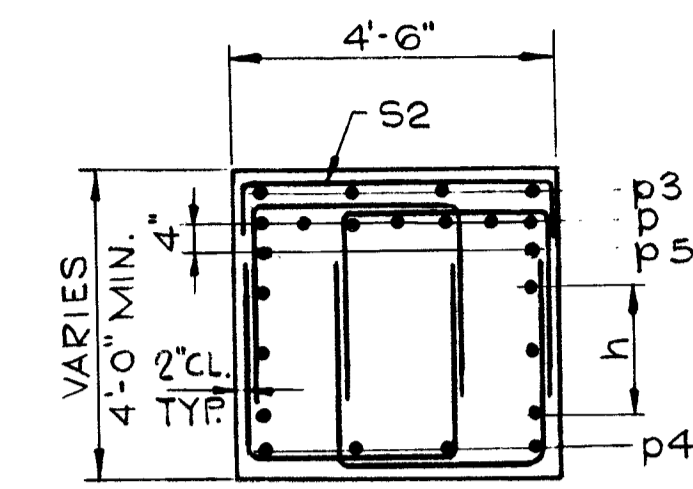
DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY S. RASHID  
 DRAWN BY P. POPOVIC  
 CHECKED J. Y. HUANG  
 IN CHARGE  
 APPROVED W. G. HORN

PIER 3 FOOTING  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

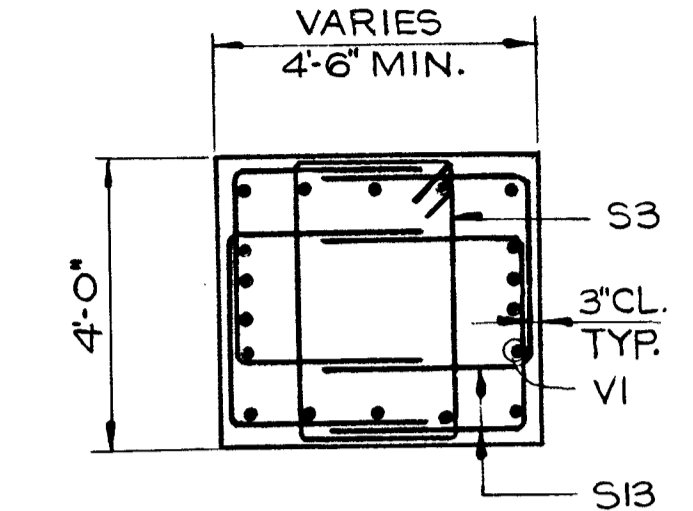
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	25
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		



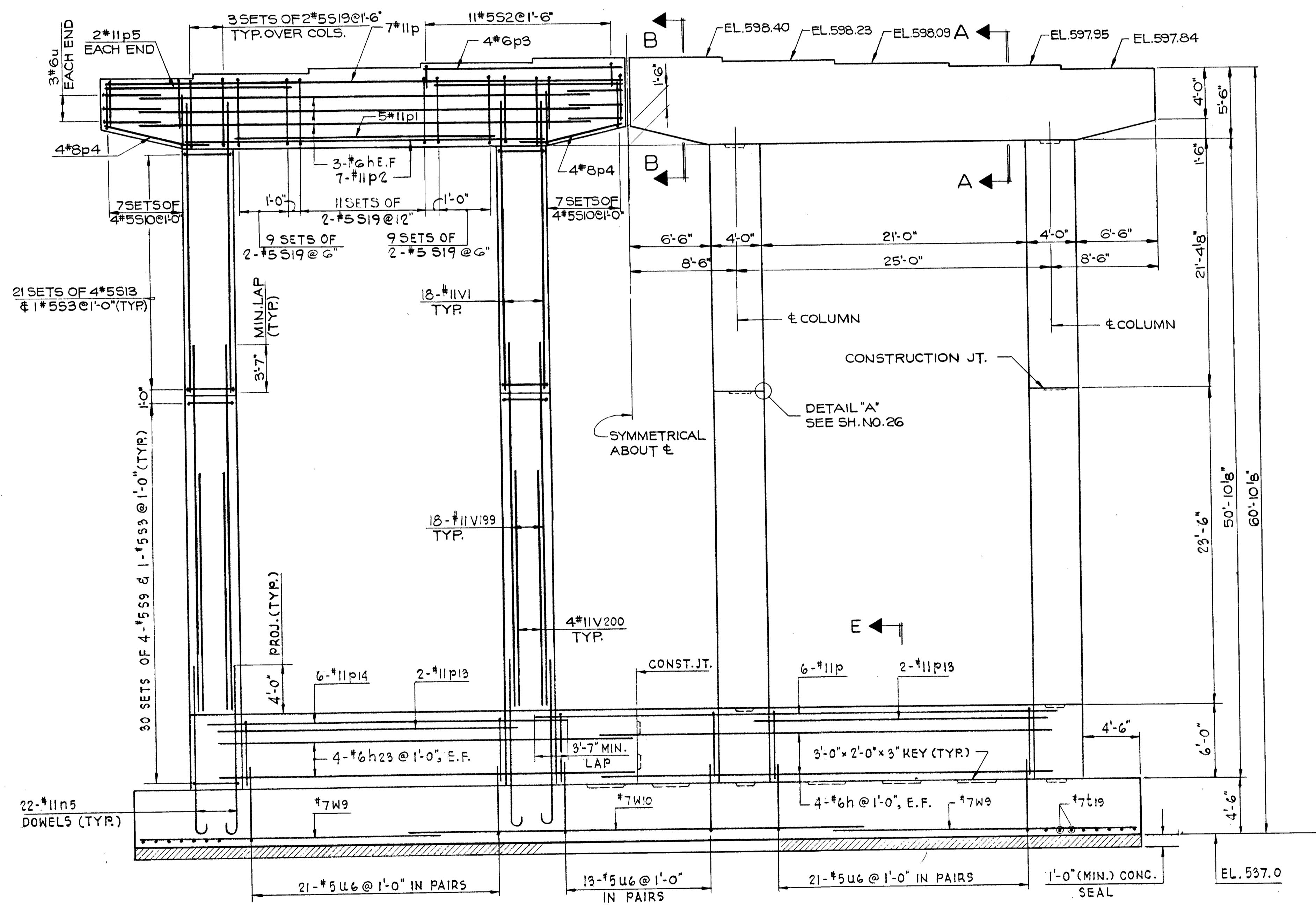
PLAN  
SCALE: 3/16" = 1'-0"



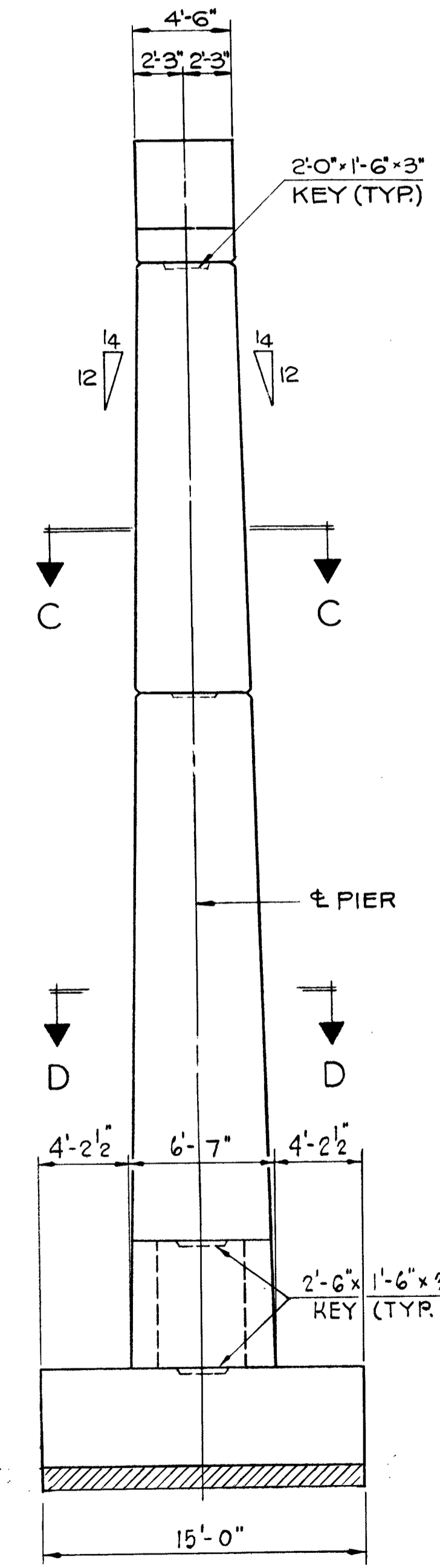
SECTION B-B  
SCALE: 3/8" = 1'-0"



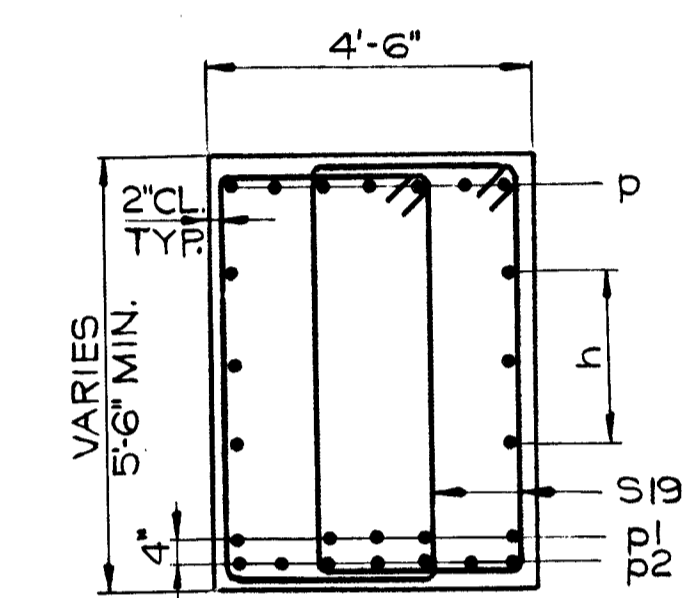
SECTION C-C  
SCALE: 3/8" = 1'-0"



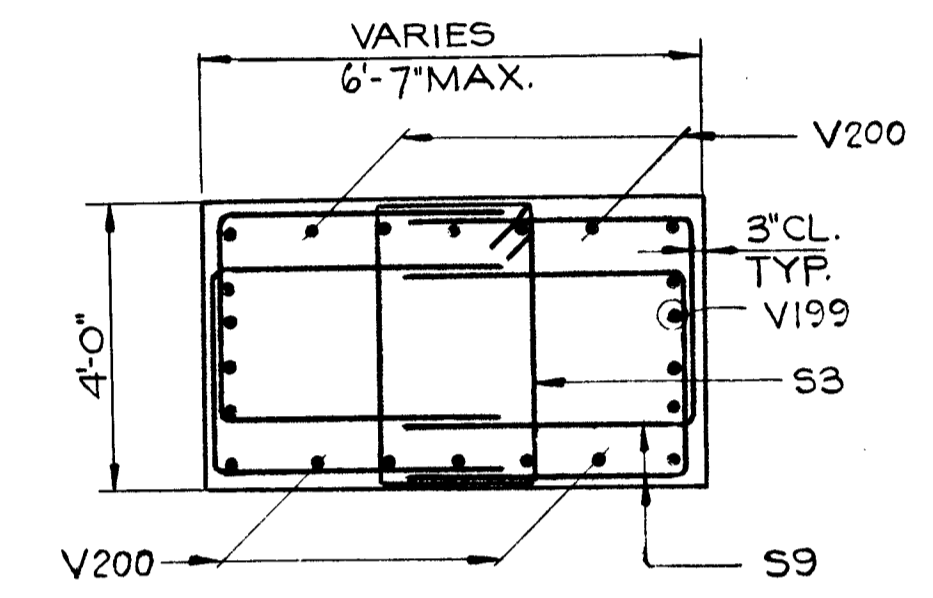
ELEVATION  
SCALE: 3/16" = 1'-0"



END ELEVATION  
SCALE: 3/16" = 1'-0"



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



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

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU. YD.	272
CLASS B EXCAVATION FOR STRUCTURE	CU. YD.	350
ROCK EXCAV For Str.	CU. YD.	138
CLASS X CONCRETE	CU. YD.	494.3
REINFORCEMENT BARS	POUND	62,430
CONCRETE SEAL	SQ. YD.	133.3

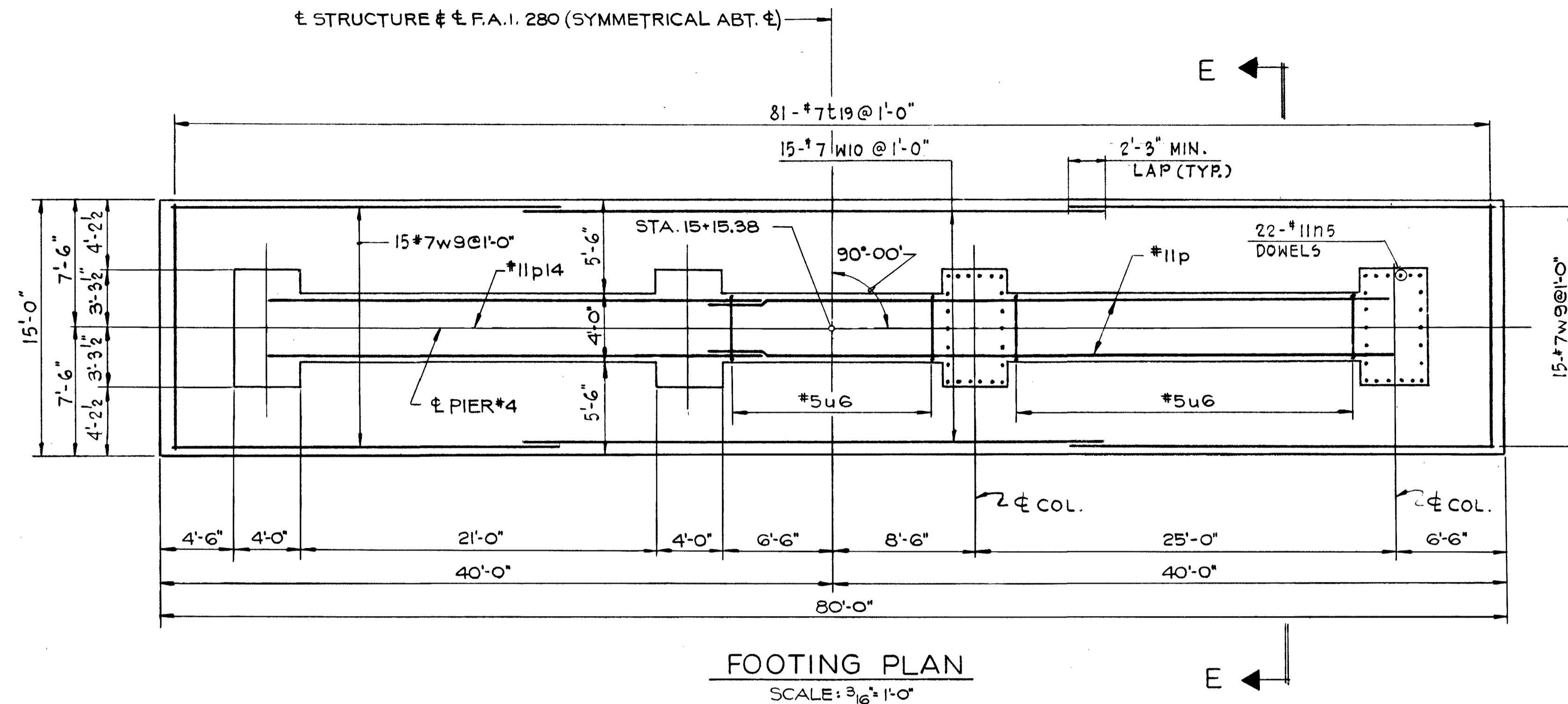
NOTES:  
 SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED & SET BY OTHERS. ALL EDGES TO HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.  
 POUR STEPS MONOLITHICALLY WITH CAP. ALL BAR DIMENSIONS ARE OUT TO OUT. MIN. BAR LAP - 24 DIA. UNLESS OTHERWISE NOTED.  
 MAX. BEARING PRESSURE ON SHALE 5.69 KIPS/SQ. FT. FOR A.A.S.H.O. GROUP III LOADING AT 125%.  
 WORK THIS SHEET WITH SHEET NO. 26.

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY S. RASHID  
 DRAWN BY P. POPOVIC  
 CHECKED [Signature]  
 IN CHARGE J. Y. HUANG  
 APPROVED W. G. HORN

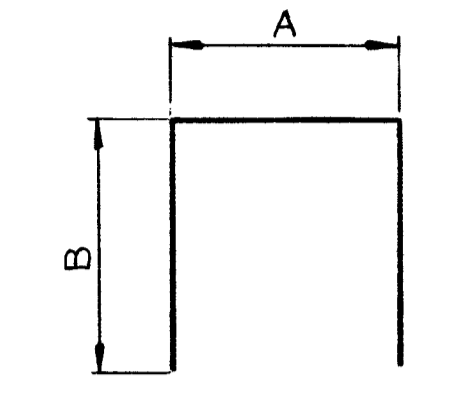
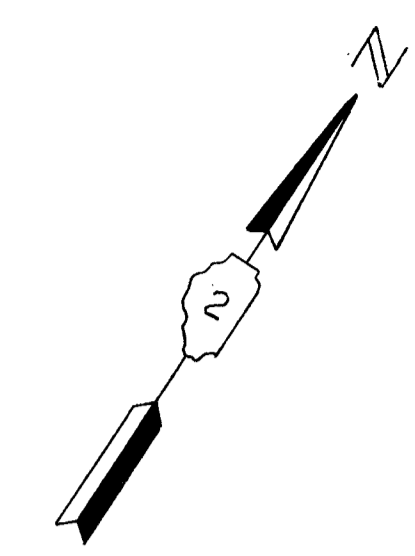
PIER 4  
 PLAN & ELEVATIONS  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	26
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		

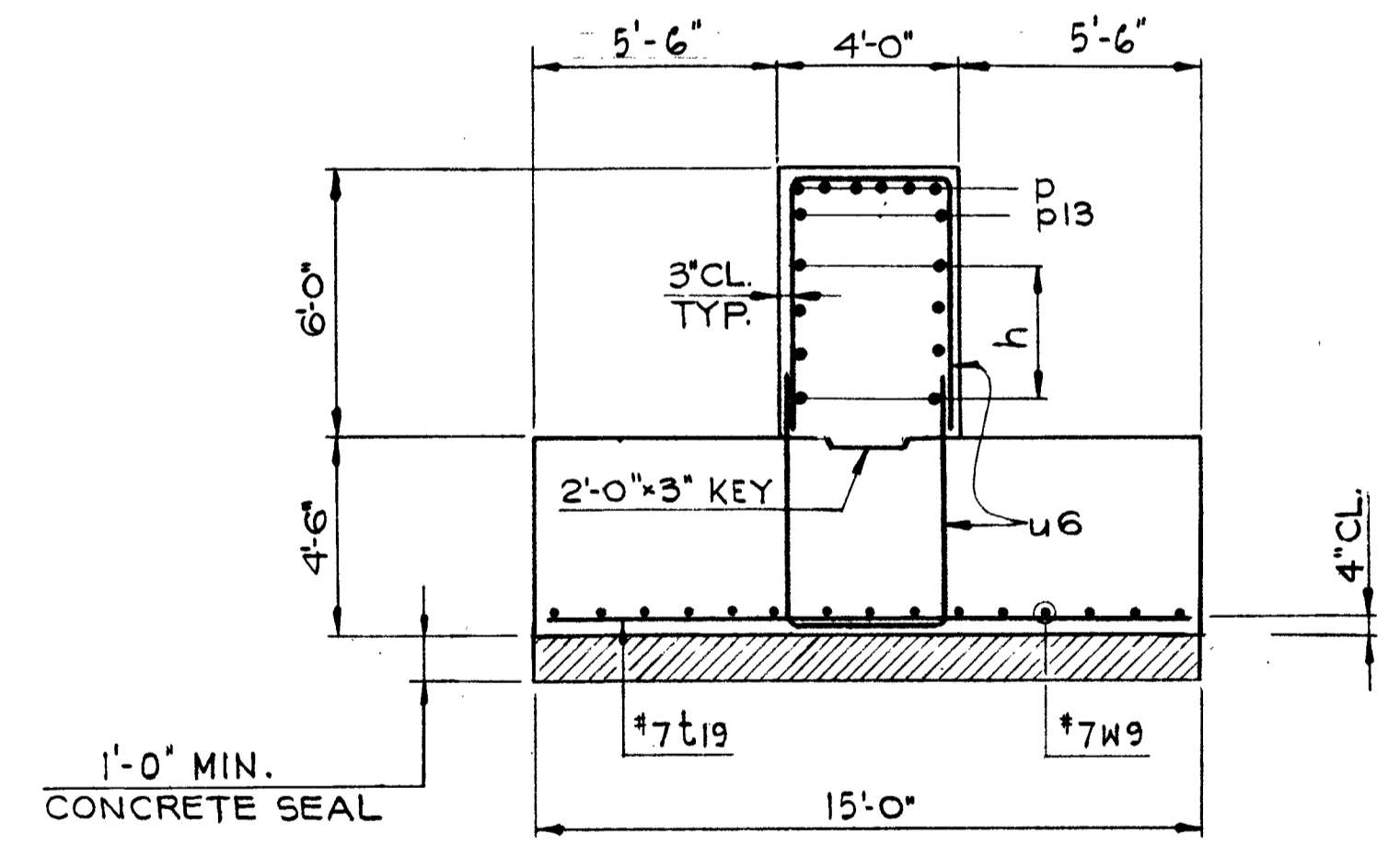
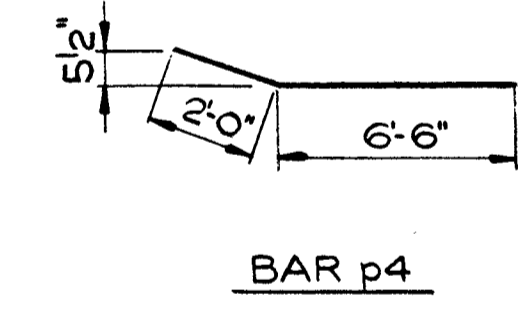
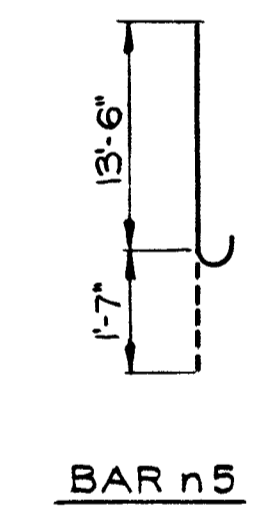
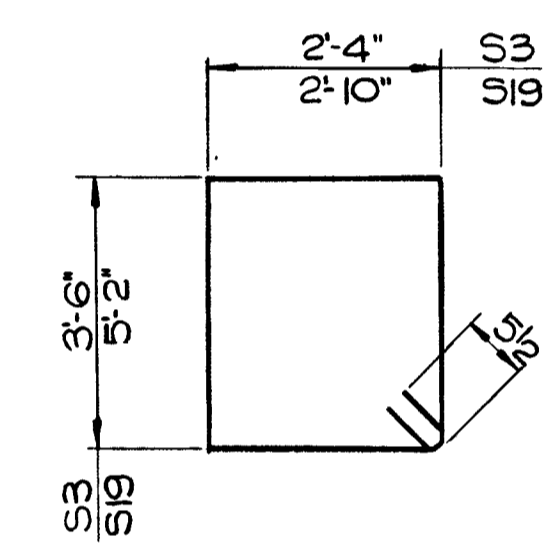


FOOTING PLAN  
SCALE: 3/16" = 1'-0"

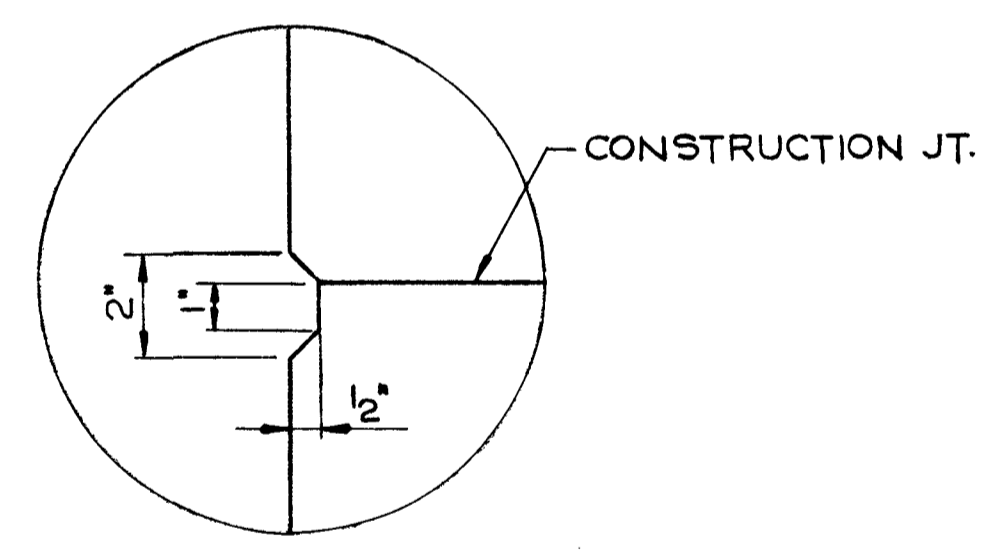


BAR	A	B
S2	4'-2"	1'-6"
S13	3'-0"	3'-2"
S10	2'-10"	3'-3"
S9	3'-0"	4'-0"
u	4'-1"	4'-6"
u6	3'-6"	5'-9"

BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	20	6	36'-0"	—
h23	8	6	32'-6"	—
n5	88	11	15'-1"	—
p	20	11	41'-6"	—
p1	10	11	21'-0"	—
p2	14	11	29'-0"	—
p3	8	6	16'-0"	—
p4	16	8	8'-6"	—
p5	8	11	15'-0"	—
p13	4	11	24'-6"	—
p14	6	11	29'-6"	—
S2	22	5	7'-2"	—
S3	204	5	12'-7"	—
S13	336	5	9'-4"	—
S10	112	5	9'-4"	—
S19	140	5	16'-11"	—
S9	480	5	11'-0"	—
t19	81	7	14'-6"	—
u	12	6	13'-1"	—
u6	110	5	15'-0"	—
V199	72	11	27'-6"	—
V1	72	11	25'-0"	—
V200	16	11	16'-0"	—
w9	30	7	24'-0"	—
w10	15	7	36'-0"	—



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



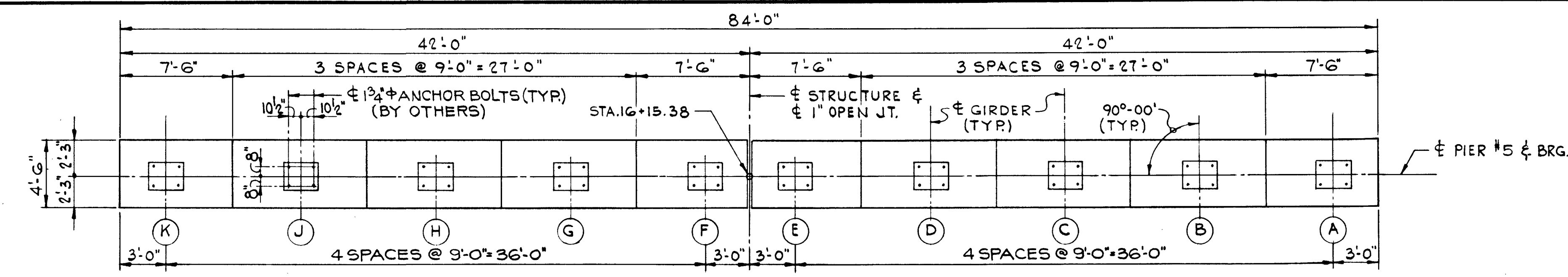
DETAIL A  
SCALE: 3" = 1'-0"

NOTE: WORK THIS SHEET WITH SHEET NO. 25

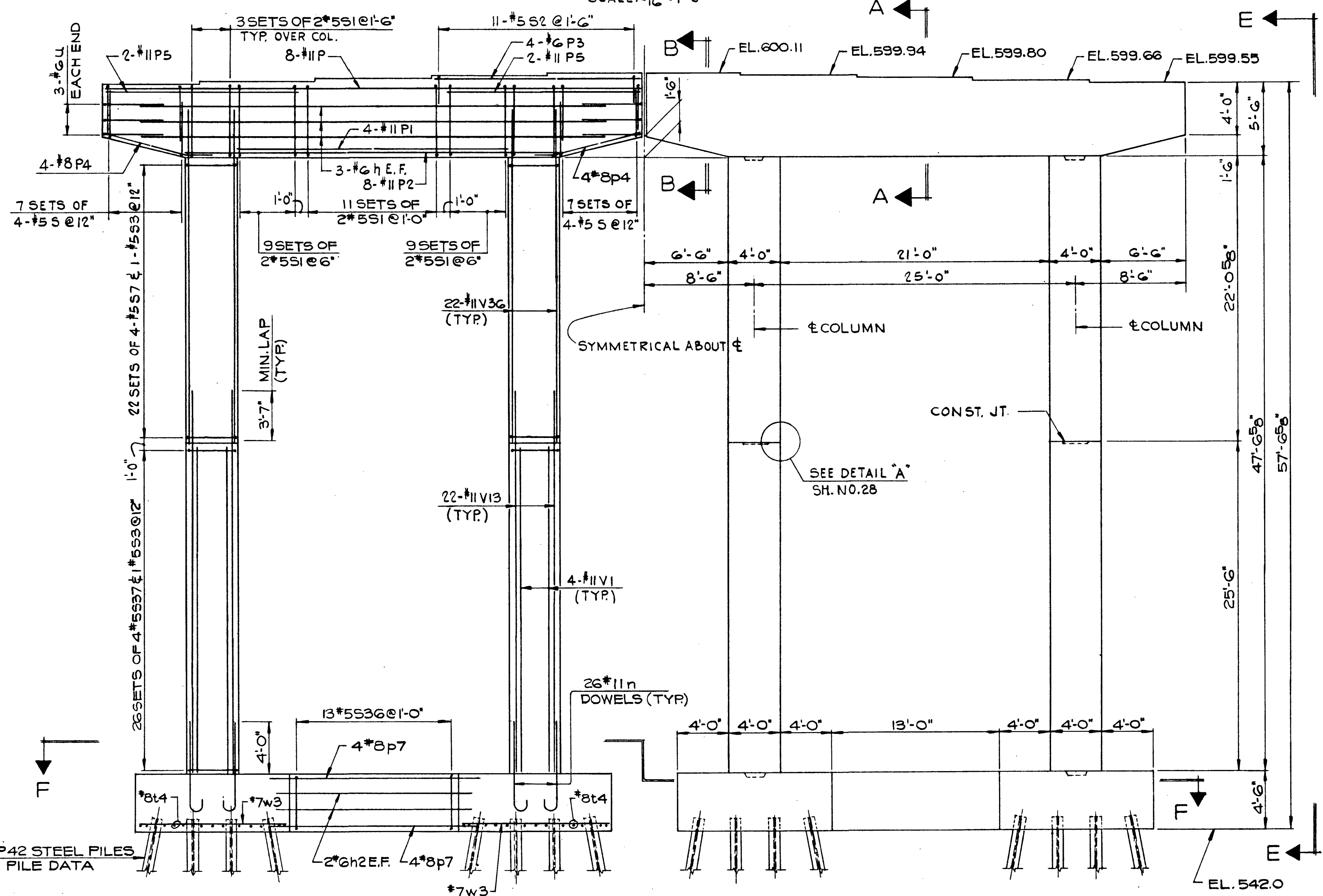
DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY S. RASHID  
 DRAWN BY P. POPOVIC  
 CHECKED [Signature]  
 IN CHARGE J. Y. HUANG  
 APPROVED W. G. HORN

PIER 4  
 FOOTING  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

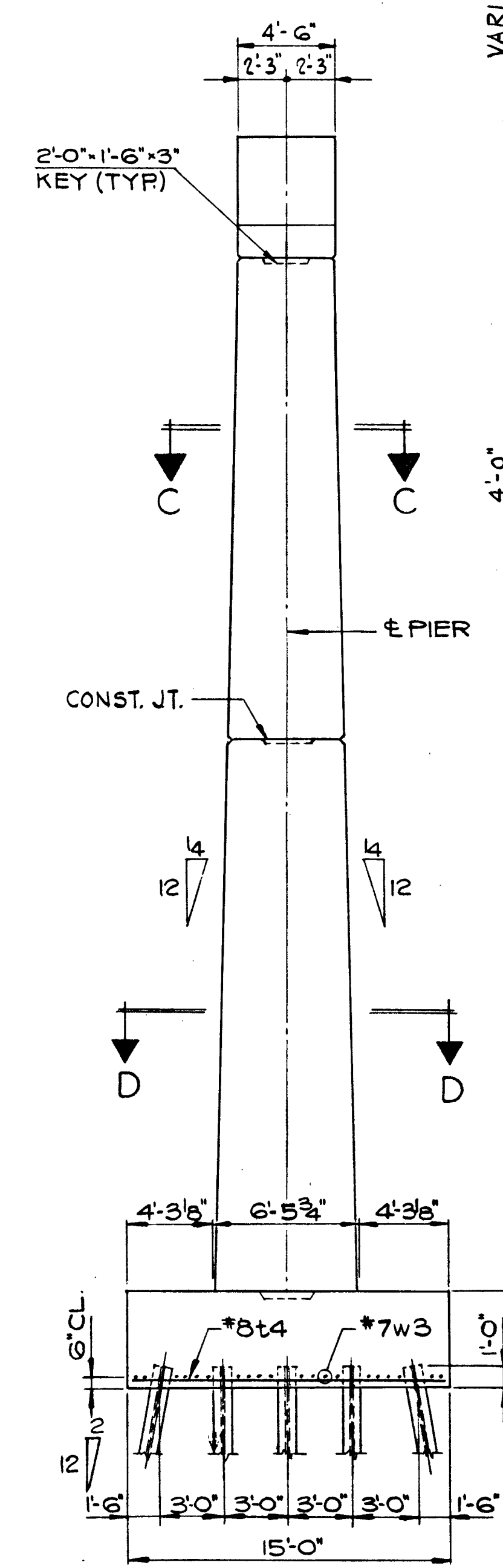
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	27
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



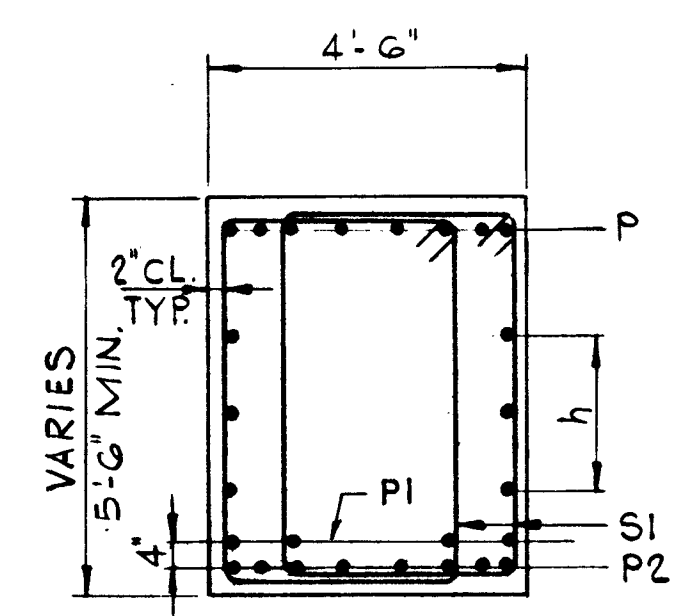
PLAN  
SCALE: 3/16" = 1'-0"



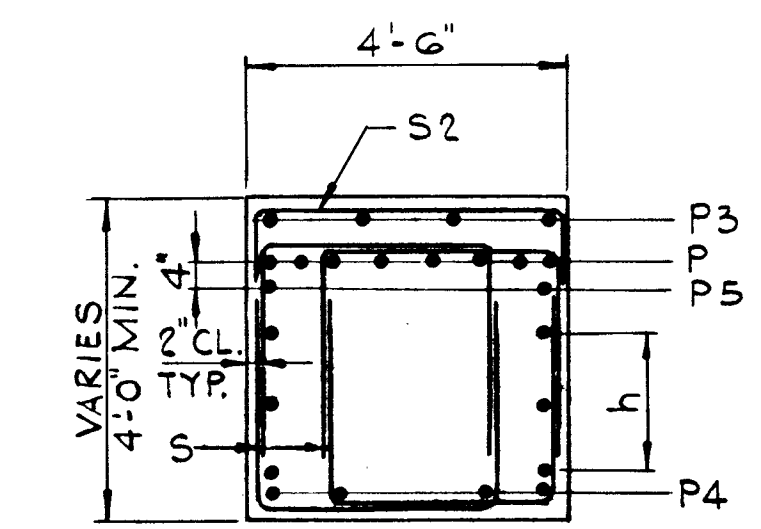
ELEVATION  
SCALE: 3/16" = 1'-0"



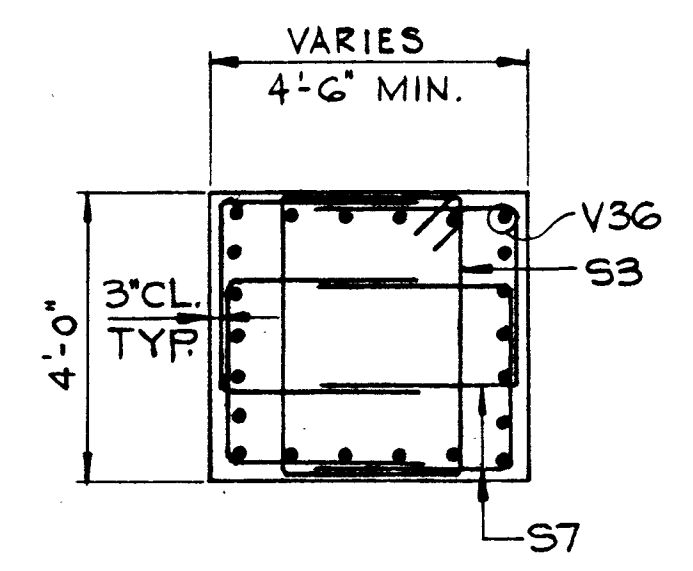
SECTION E-E  
SCALE: 3/16" = 1'-0"



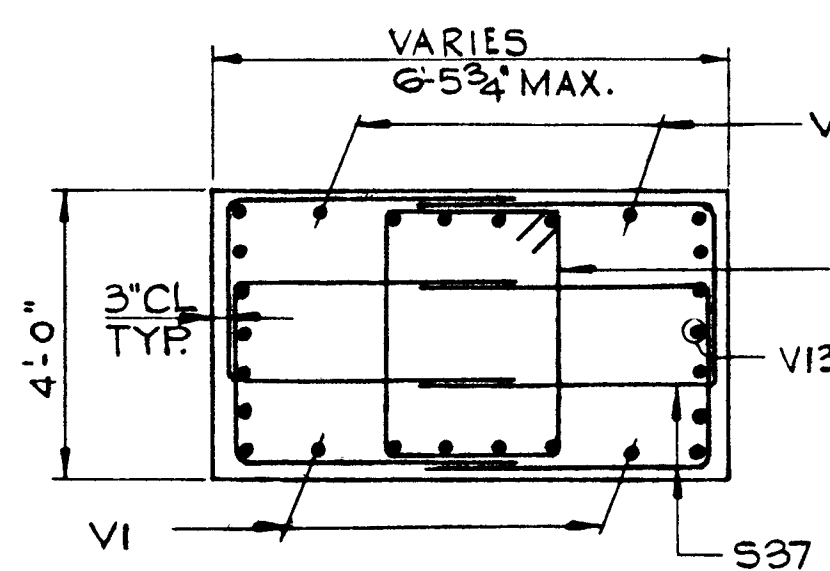
SECTION A-A  
SCALE: 3/8" = 1'-0"



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



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



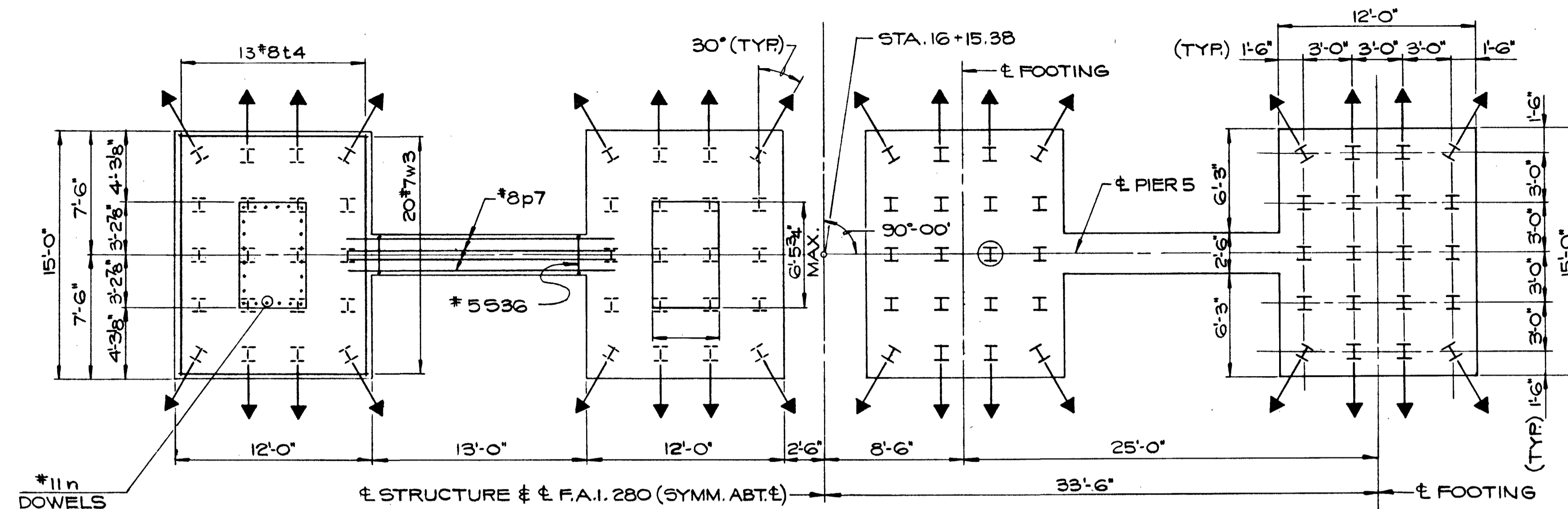
SECTION D-D  
SCALE: 3/8" = 1'-0"

NOTES:  
 SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED & SET BY OTHERS.  
 ALL EDGES TO HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.  
 POUR STEPS MONOLITHICALLY WITH CAP.  
 ALL BAR DIMENSIONS ARE OUT TO OUT.  
 MIN. BAR LAP - 24 DIA. UNLESS OTHERWISE NOTED.  
 WORK THIS SHEET WITH SHEET NO. 26.

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY S. RASHID  
 DRAWN BY S. MUELLER  
 CHECKED J. Y. HUANG  
 IN CHARGE J. Y. HUANG  
 APPROVED W. G. HORN

PIER 5  
 PLAN & ELEVATIONS  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	28
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



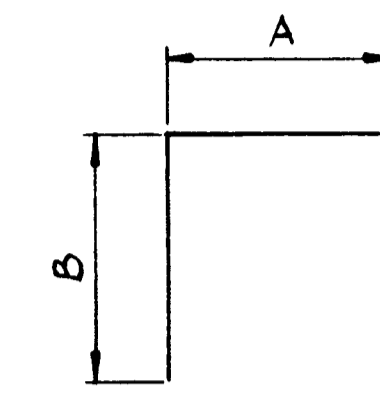
SECTION F-F  
SCALE: 3/8" = 1'-0"

⊕ DENOTES TEST FILE  
⊥ DENOTES BATTERED FILE

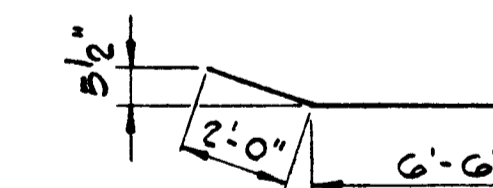
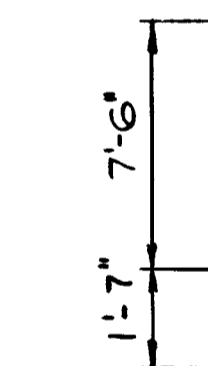
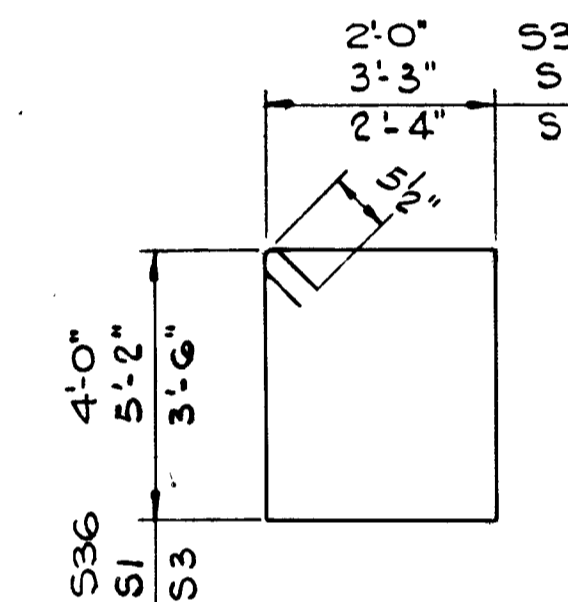
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU.YD.	281.0
CLASS X CONCRETE	CU.YD.	363.0
REINFORCEMENT BARS	POUND	60,980
FURNISH STEEL PILES 10 BP42	LIN.FT.	1185
TEST PILE STEEL 10BP42	EACH	1
DRIVING STEEL PILES	LIN.FT.	1185
CLASS B EXCAVATION FOR STRUCTURE	CU.YD.	150.0

PILE DATA	
PILE TYPE	10BP42
Drive To	TON 50
NUMBER REQUIRED*	80
ESTIMATED LENGTH, FEET	15
CUT OFF ELEVATION	543.0

\* INCLUDING 1 TEST FILE



BAR	A	B
S	3'-3"	3'-3"
S2	4'-2"	1'-6"
S7	2'-6"	3'-0"
S37	2'-6"	3'-3"
L	4'-1"	4'-6"



BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	12	6	36'-0"	—
h2	8	6	16'-0"	—
n	104	11	9'-1"	⌋
P	16	11	41'-6"	—
P1	8	11	21'-0"	—
P2	16	11	29'-0"	—
P3	8	6	16'-0"	—
P4	16	8	8'-6"	⌋
P5	8	11	15'-0"	—
P7	16	8	17'-0"	—
S	112	5	9'-9"	⌋
S1	140	5	17'-9"	⌋
S2	22	5	7'-2"	⌋
S3	192	5	12'-7"	⌋
S7	352	5	8'-6"	⌋
S37	416	5	10'-0"	⌋
S36	26	5	13'-0"	⌋
t4	52	8	14'-6"	—
L	12	6	13'-1"	⌋
V1	16	11	25'-0"	—
V13	88	11	29'-3"	—
V36	88	11	26'-0"	—
W3	80	7	11'-6"	—

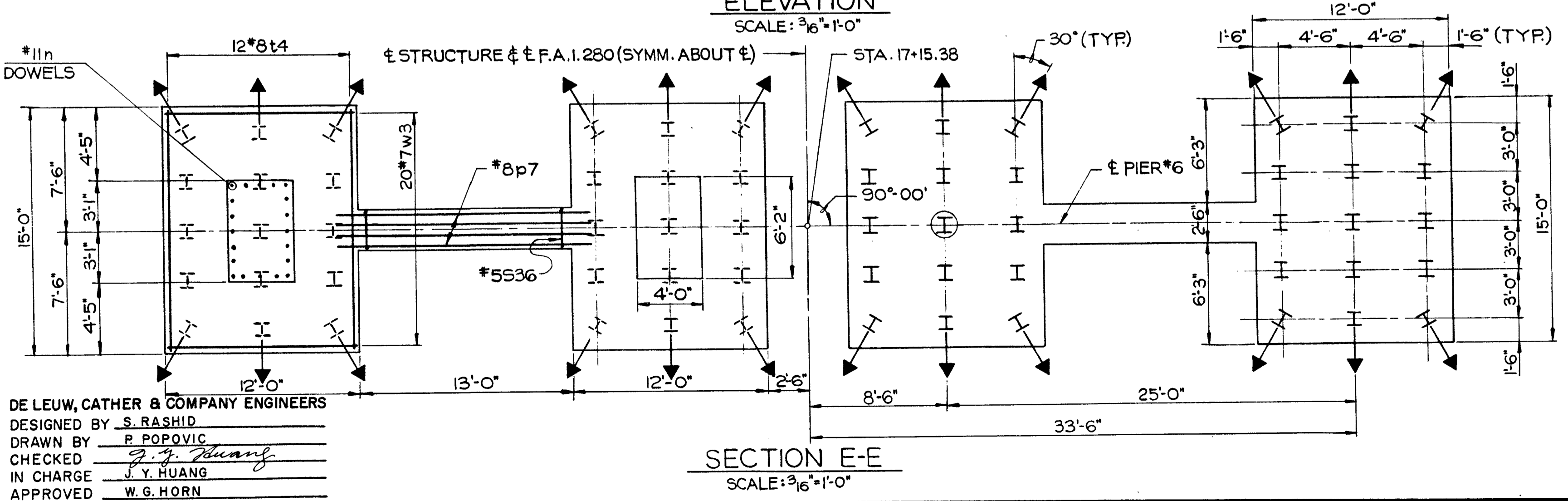
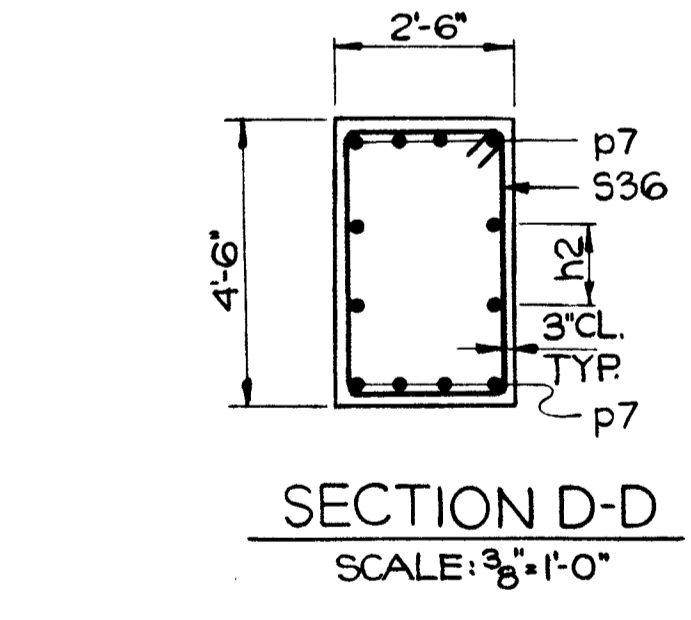
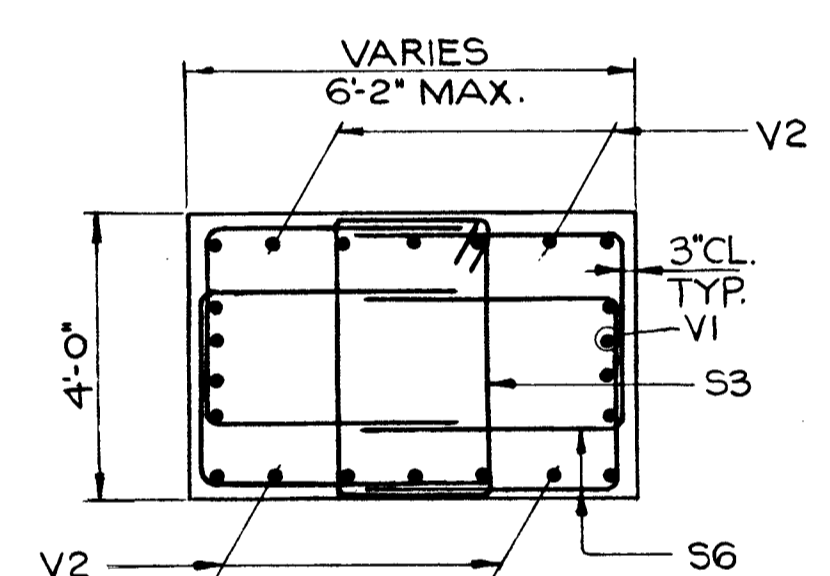
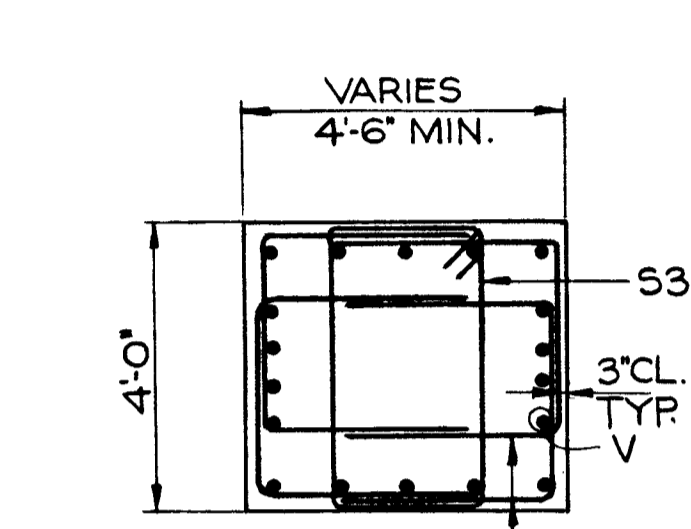
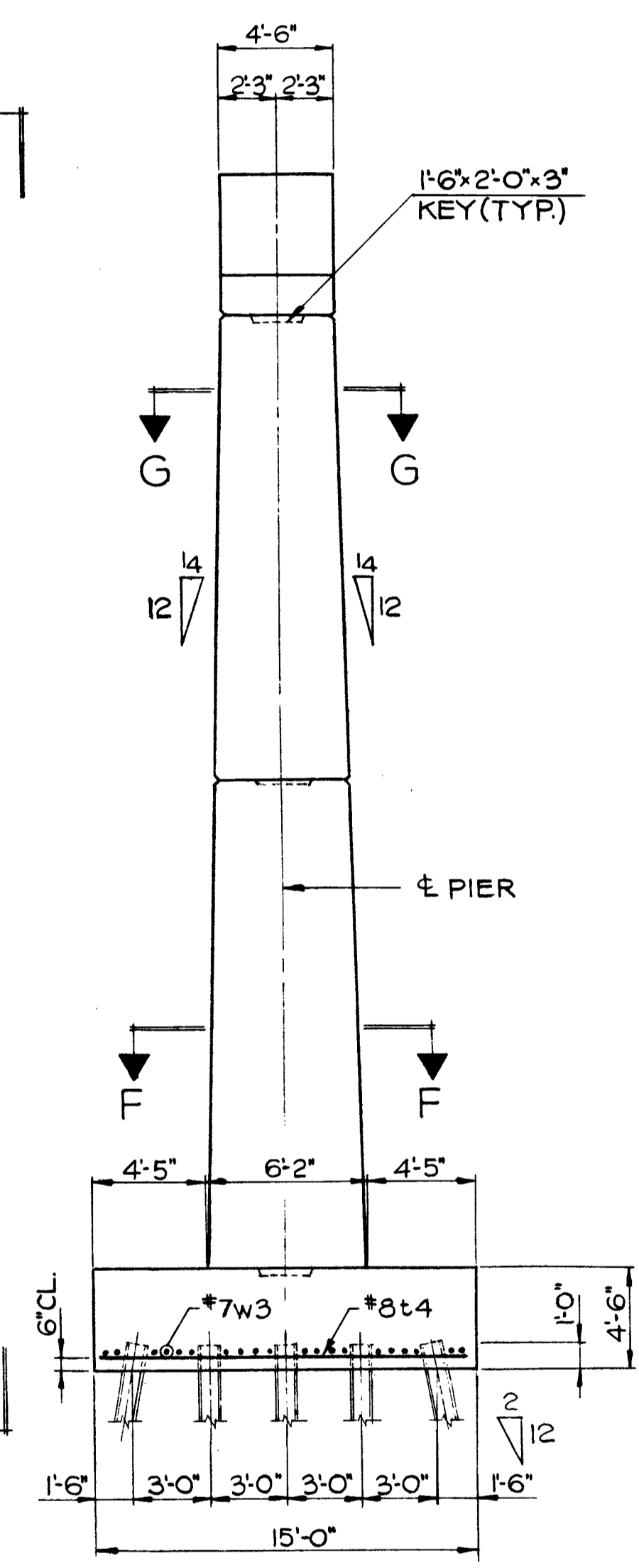
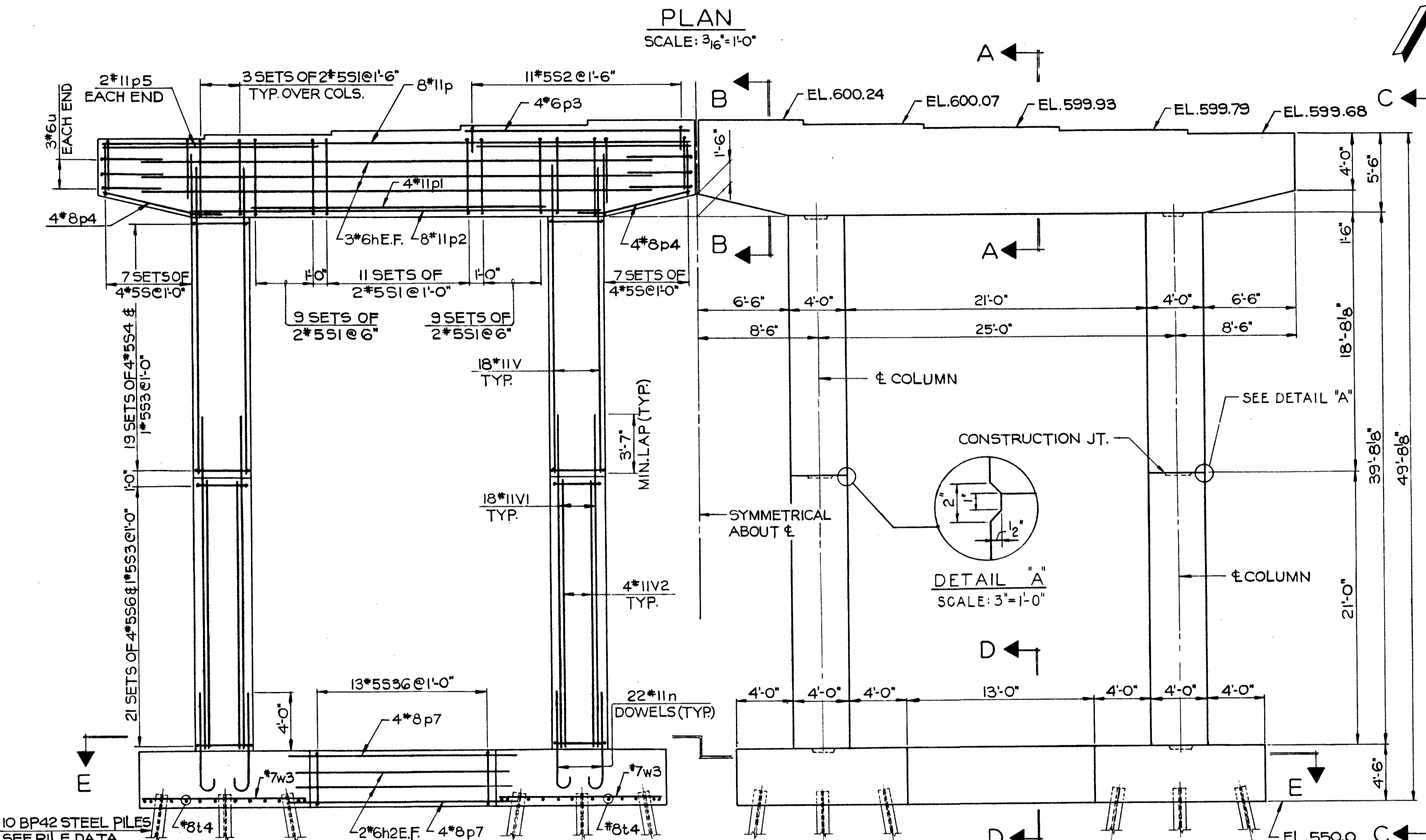
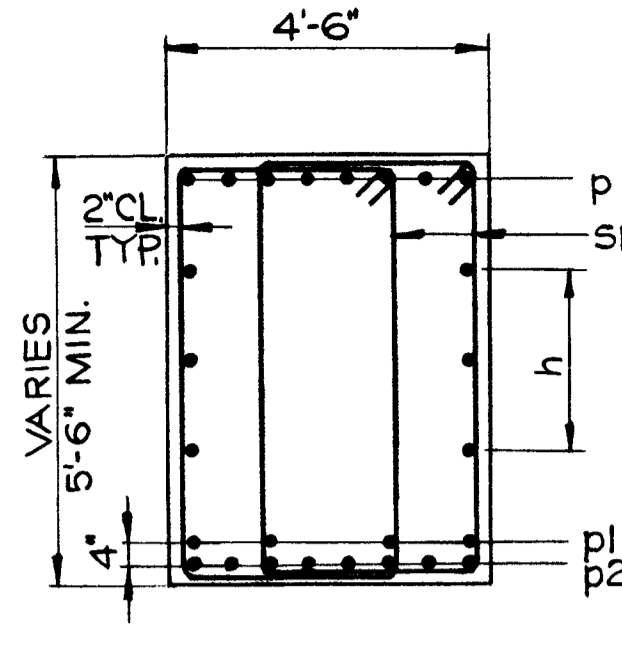
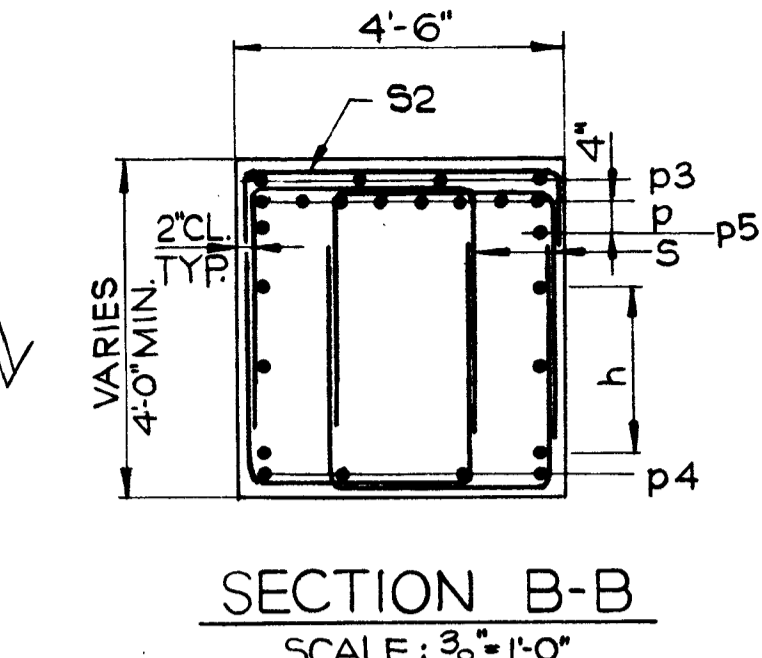
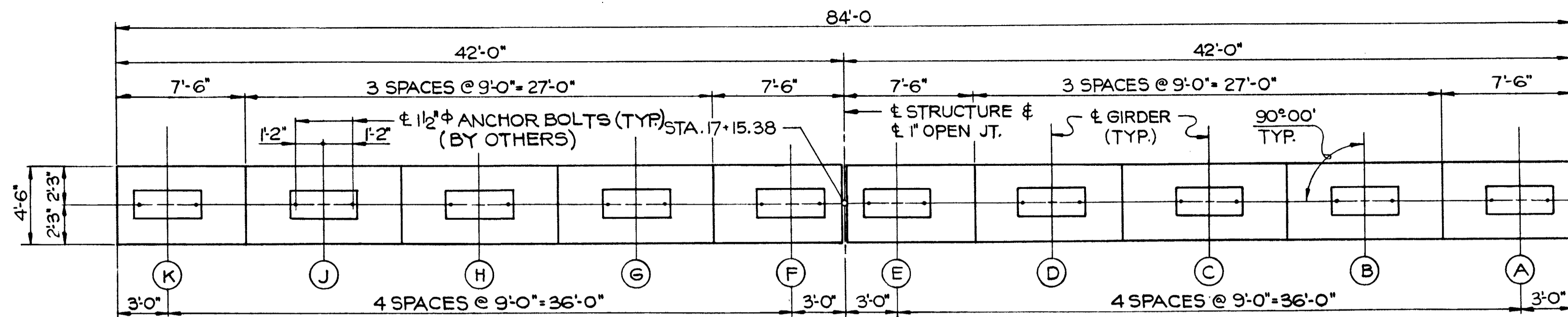
NOTE: WORK THIS SHEET WITH SHEET NO.27.

DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY S. RASHID  
 DRAWN BY S. MUELLER  
 CHECKED [Signature]  
 IN CHARGE J. Y. HUANG  
 APPROVED W. G. HORN

PIER 5  
 FOOTING  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

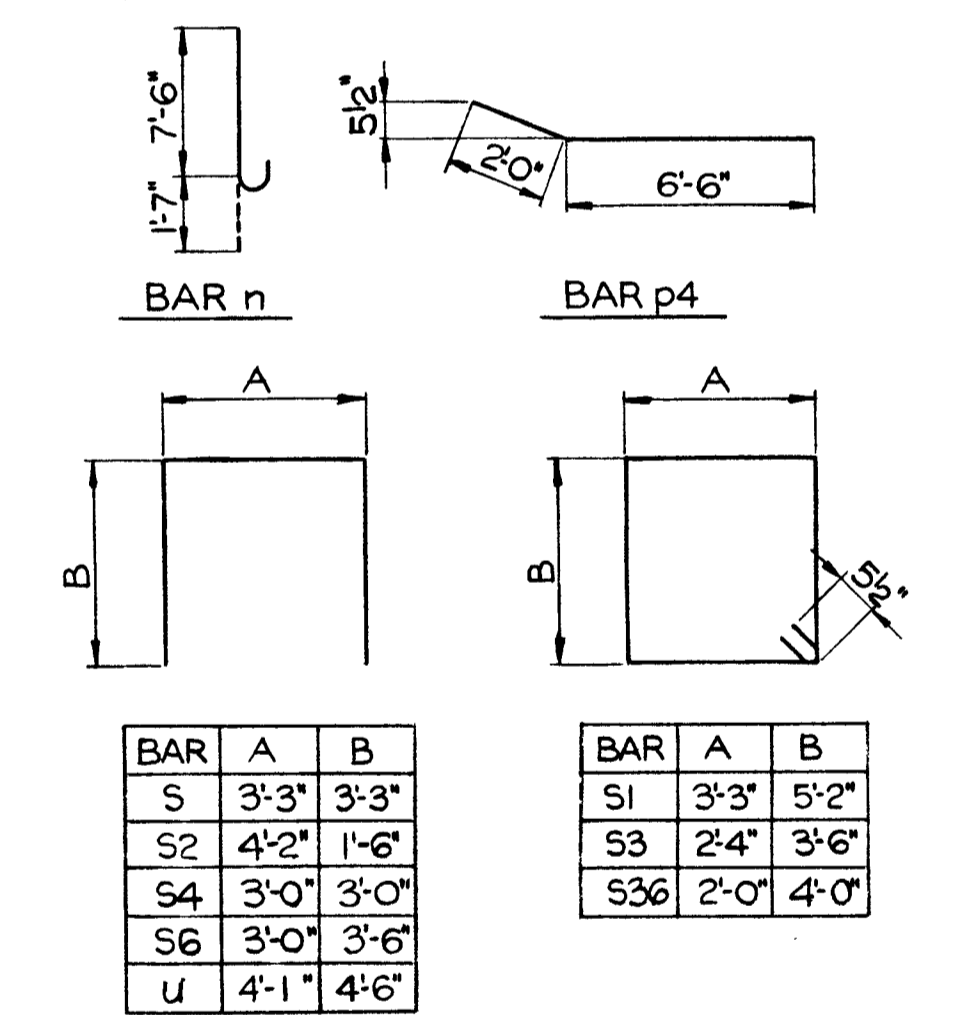


ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	29
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



### BAR LIST

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	6	36'-0"	—
h2	8	6	16'-0"	—
n	88	11	9'-1"	U
p5	8	11	15'-0"	—
p	16	11	41'-6"	—
p1	8	11	21'-0"	—
p2	16	11	29'-0"	—
p3	8	6	16'-0"	—
p4	16	8	8'-6"	—
p7	16	8	17'-0"	—
s	112	5	9'-9"	—
s1	140	5	17'-9"	—
s2	22	5	7'-2"	—
s3	160	5	12'-7"	—
s4	304	5	9'-0"	—
s36	26	5	13'-0"	—
s6	336	5	10'-0"	—
t4	48	8	14'-6"	—
u	12	6	13'-1"	—
v	72	11	23'-0"	—
v1	72	11	25'-0"	—
v2	16	11	20'-9"	—
w3	80	7	11'-6"	—



### BILL OF MATERIAL

ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU.YD.	296
CLASS X CONCRETE	CU.YD.	333.9
REINFORCEMENT BARS	POUND	50670
FURNISH STEEL PILES IO BP42	LIN.FT.	1,239
TEST FILE STEEL IOBP42	EACH	1
DRIVING STEEL PILES	LIN.FT.	1,239

### PILE DATA

PILE TYPE	IOBP42
** DESIGN CAPACITY, TON	37
NUMBER REQUIRED *	60
ESTIMATED LENGTH, FEET	21
CUT OFF ELEVATION	551.0

\* INCLUDING 1 TEST PILE  
\*\* DRIVE TO 50 TON

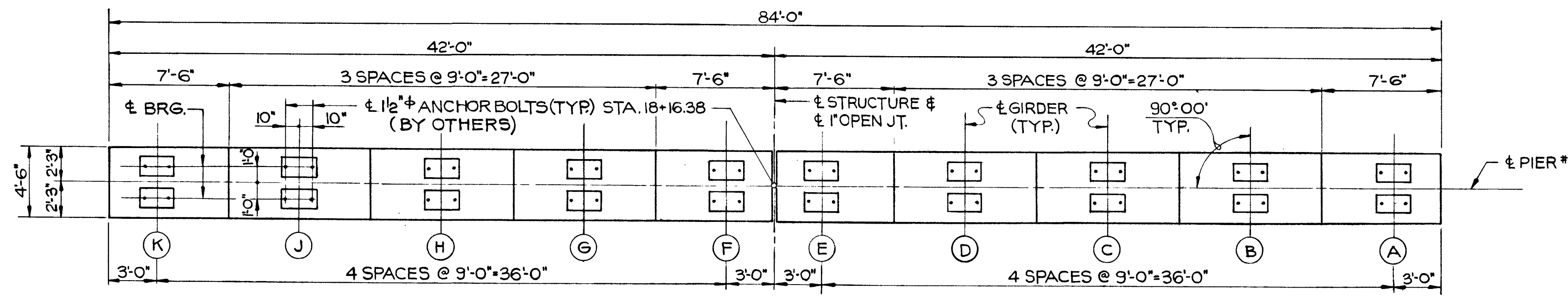
⊕ DENOTES TEST PILE  
I DENOTES BATTERED PILE

NOTES:  
SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED & SET BY OTHERS.  
ALL EDGES TO HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.  
POUR STEPS MONOLITHICALLY WITH CAP.  
ALL BAR DIMENSIONS ARE OUT TO OUT.  
MIN. BAR LAP - 24 DIA. UNLESS OTHERWISE NOTED.

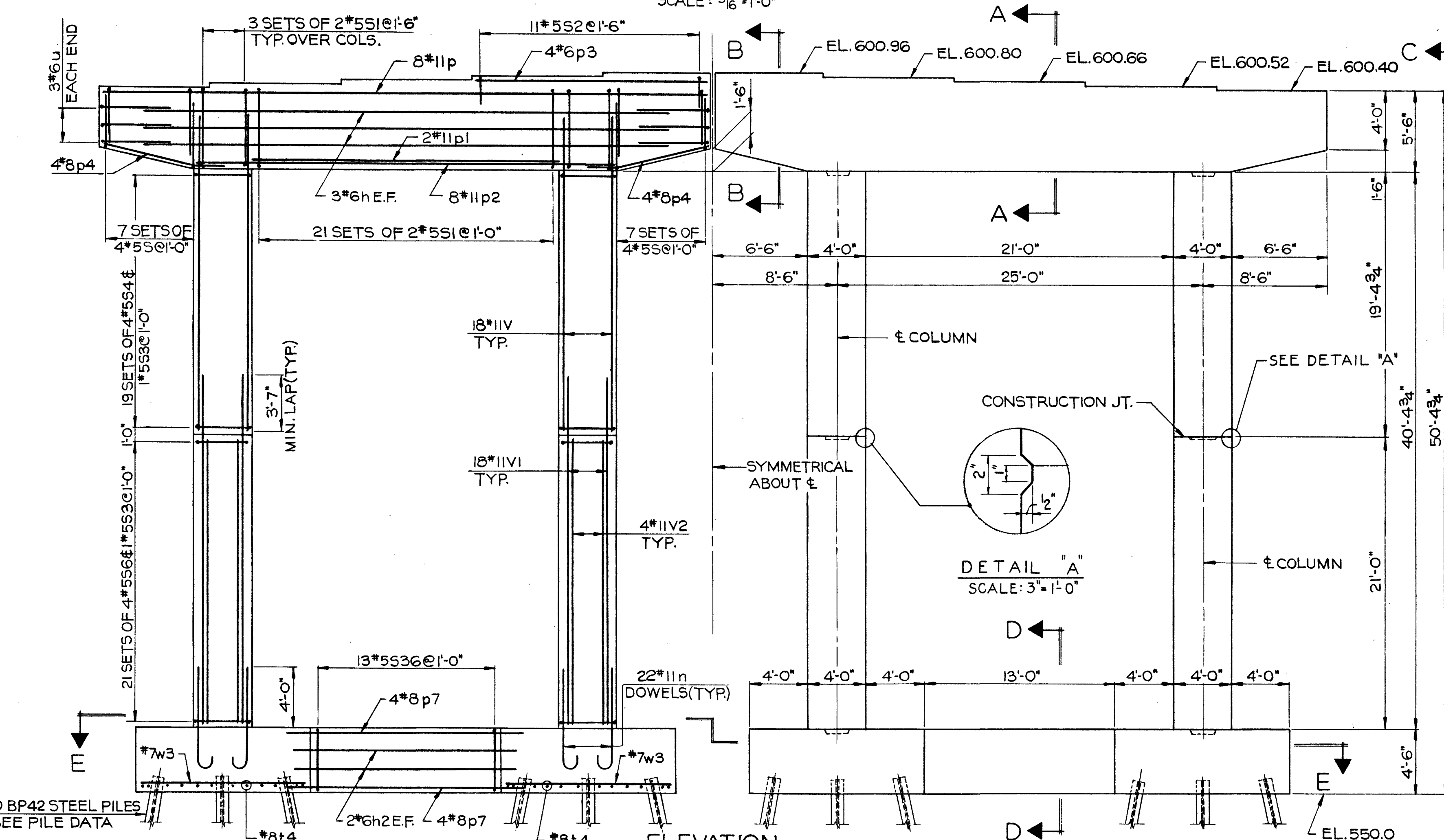
**PIER 6**  
F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY P. POPOVIC  
CHECKED J. J. Huany  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

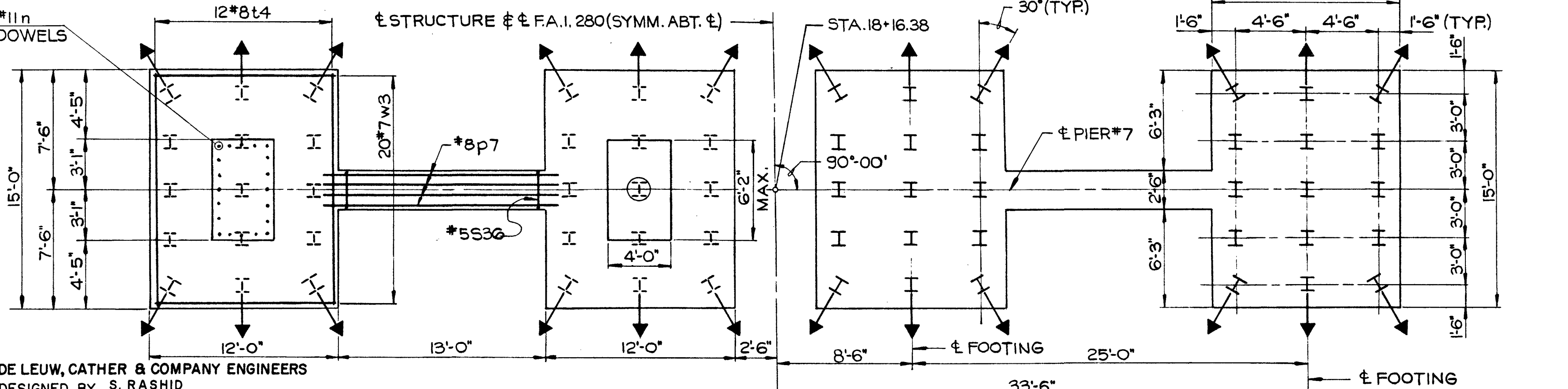
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	30
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



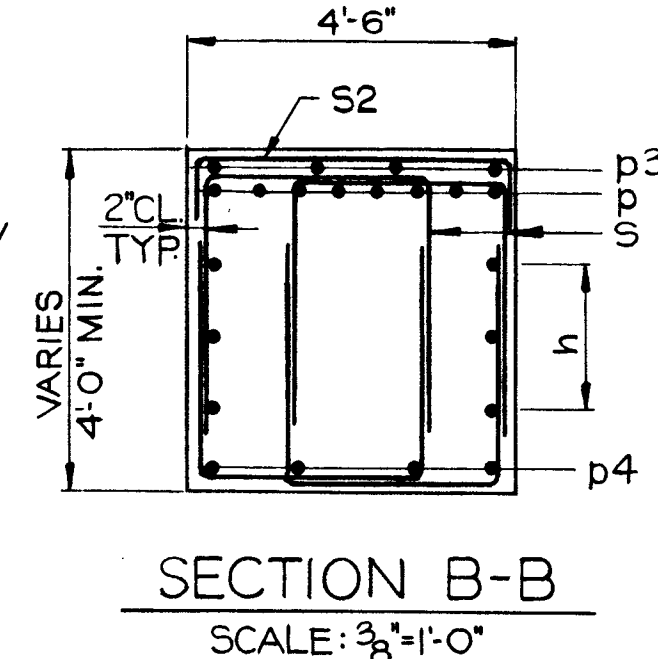
PLAN  
SCALE: 3/16"=1'-0"



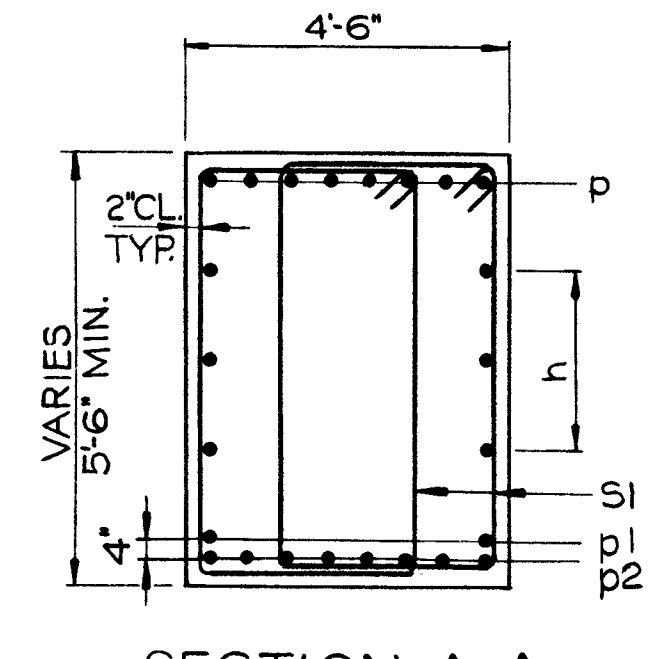
ELEVATION  
SCALE: 3/16"=1'-0"



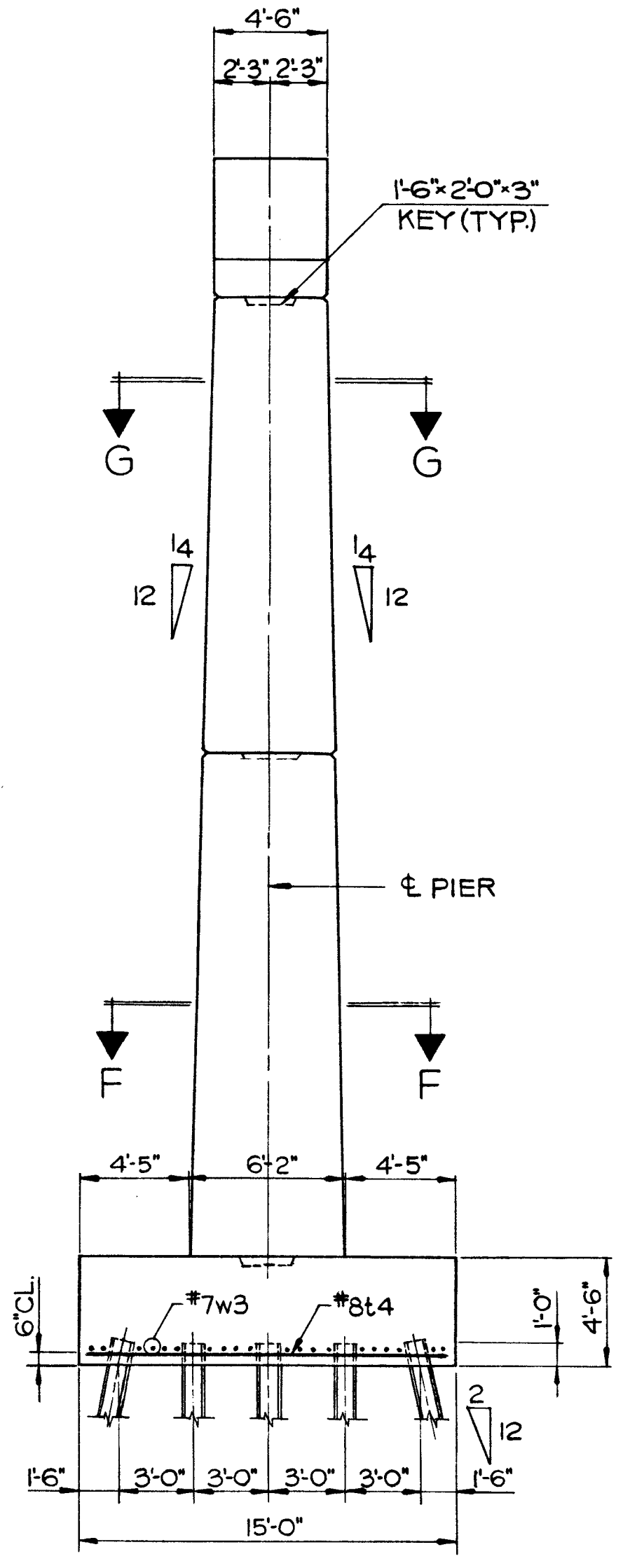
SECTION E-E  
SCALE: 3/16"=1'-0"



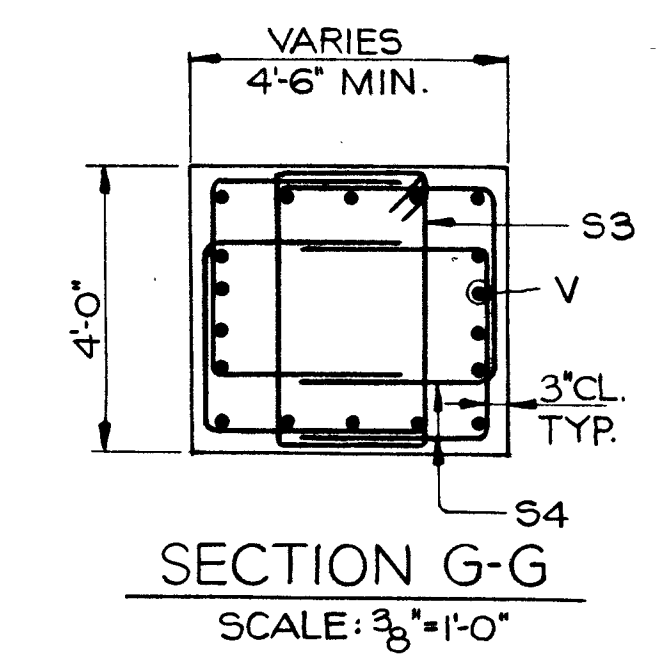
SECTION B-B  
SCALE: 3/8"=1'-0"



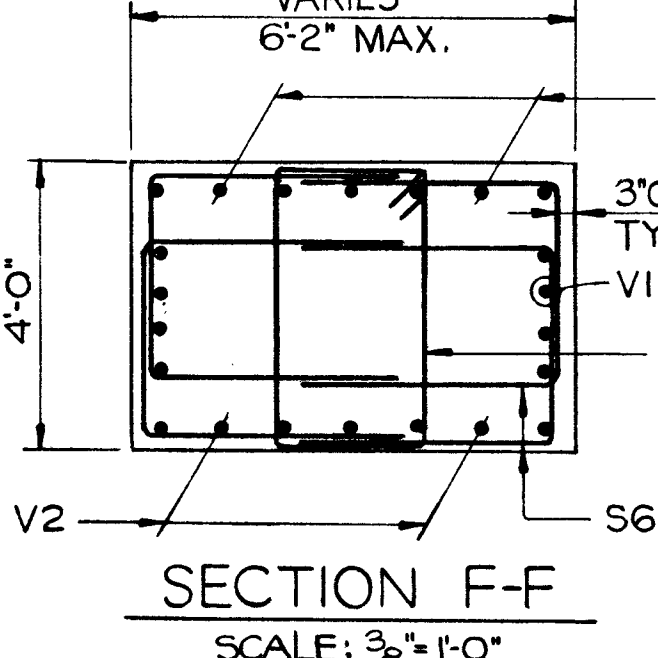
SECTION A-A  
SCALE: 3/8"=1'-0"



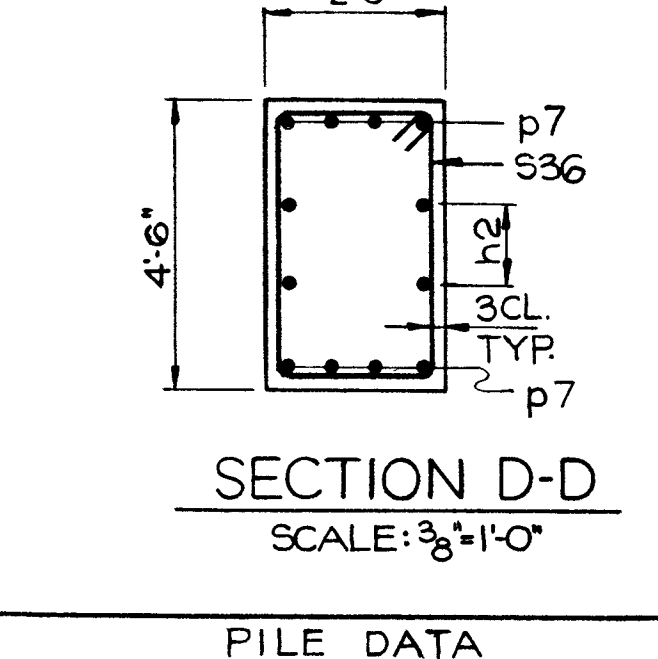
SECTION C-C  
SCALE: 3/8"=1'-0"



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

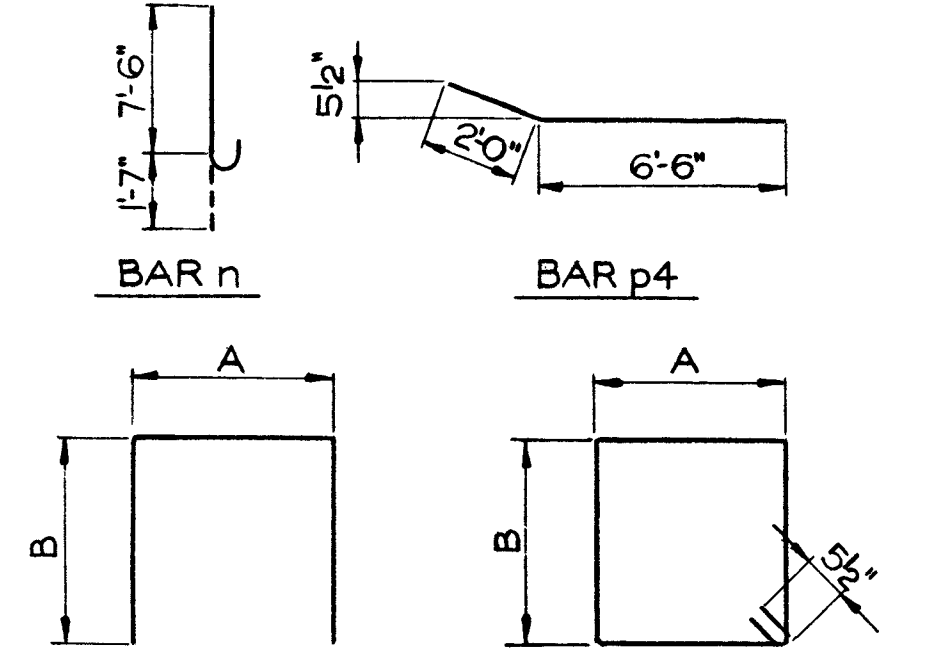


SECTION F-F  
SCALE: 3/8"=1'-0"



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

BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	12	6	36'-0"	
h2	8	6	16'-0"	
n	88	11	9'-1"	
p	16	11	41'-6"	
pl	4	11	21'-0"	
p2	16	11	29'-0"	
p3	8	6	16'-0"	
p4	16	8	8'-6"	
p7	16	8	17'-0"	
s	112	5	9'-9"	
s1	108	5	17'-9"	
s2	22	5	7'-2"	
s3	160	5	12'-7"	
s36	26	5	13'-0"	
s6	336	5	10'-0"	
s4	304	5	9'-0"	
t4	48	8	14'-6"	
u	12	6	13'-1"	
v	72	11	23'-0"	
v1	72	11	25'-0"	
v2	16	11	20'-9"	
w3	80	7	11'-6"	



DETAIL "A"  
SCALE: 3"=1'-0"

BAR	A	B
S	3'-3"	3'-3"
S1	3'-3"	5'-2"
S2	4'-2"	1'-6"
S3	2'-4"	3'-6"
S6	3'-0"	3'-6"
S4	3'-0"	3'-0"
u	4'-1"	4'-6"

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU.YD.	356
CLASS X CONCRETE	CU.YD.	336.0
REINFORCEMENT BARS	POUND	48980
FURNISH STEEL PILES 10 BP 42	LIN.FT.	1,239
TEST PILE STEEL 10 BP 42	EACH	1
DRIVING STEEL PILE	LIN.FT.	1,239

PILE DATA	
PILE TYPE	10 BP 42
** DESIGN CAPACITY, TON	37
NUMBER REQUIRED *	60
ESTIMATED LENGTH, FEET	21
CUT OFF ELEVATION	551.0

\* INCLUDING 1 TEST PILE  
\*\* DRIVE TO 50 TON

⊕ DENOTES TEST PILE  
I DENOTES BATTERED PILE

NOTES:  
SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED & SET BY OTHERS. ALL EDGES TO HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.  
POUR STEPS MONOLITHICALLY WITH CAP.  
ALL BAR DIMENSIONS ARE OUT TO OUT.  
MIN. BAR LAP-24 DIA. UNLESS OTHERWISE NOTED.

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY P. POPOVIC  
CHECKED BY J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

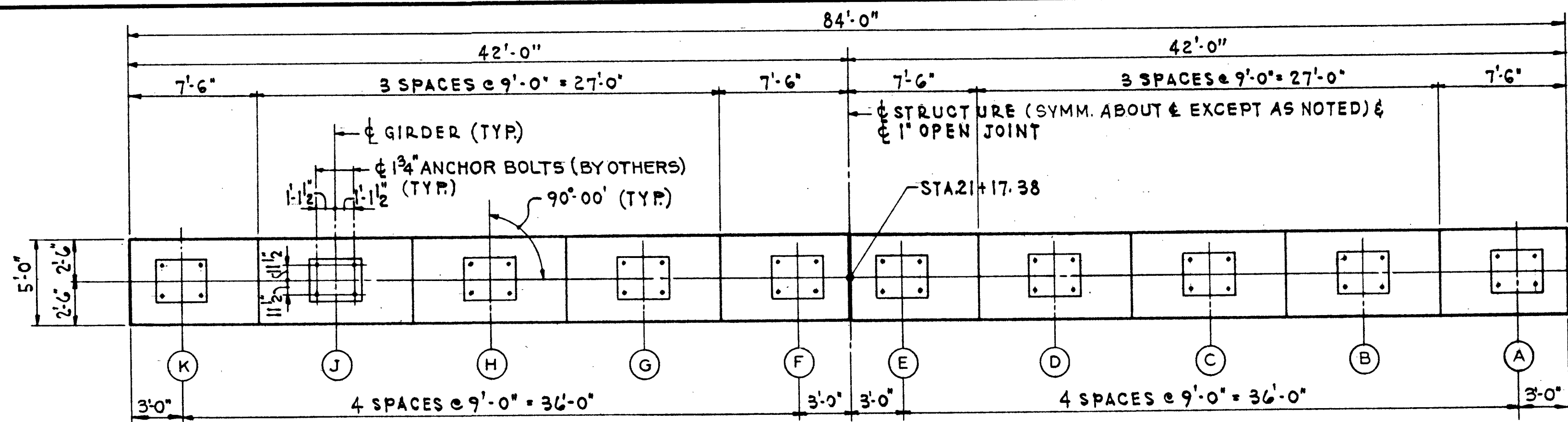
PIER 7  
F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969



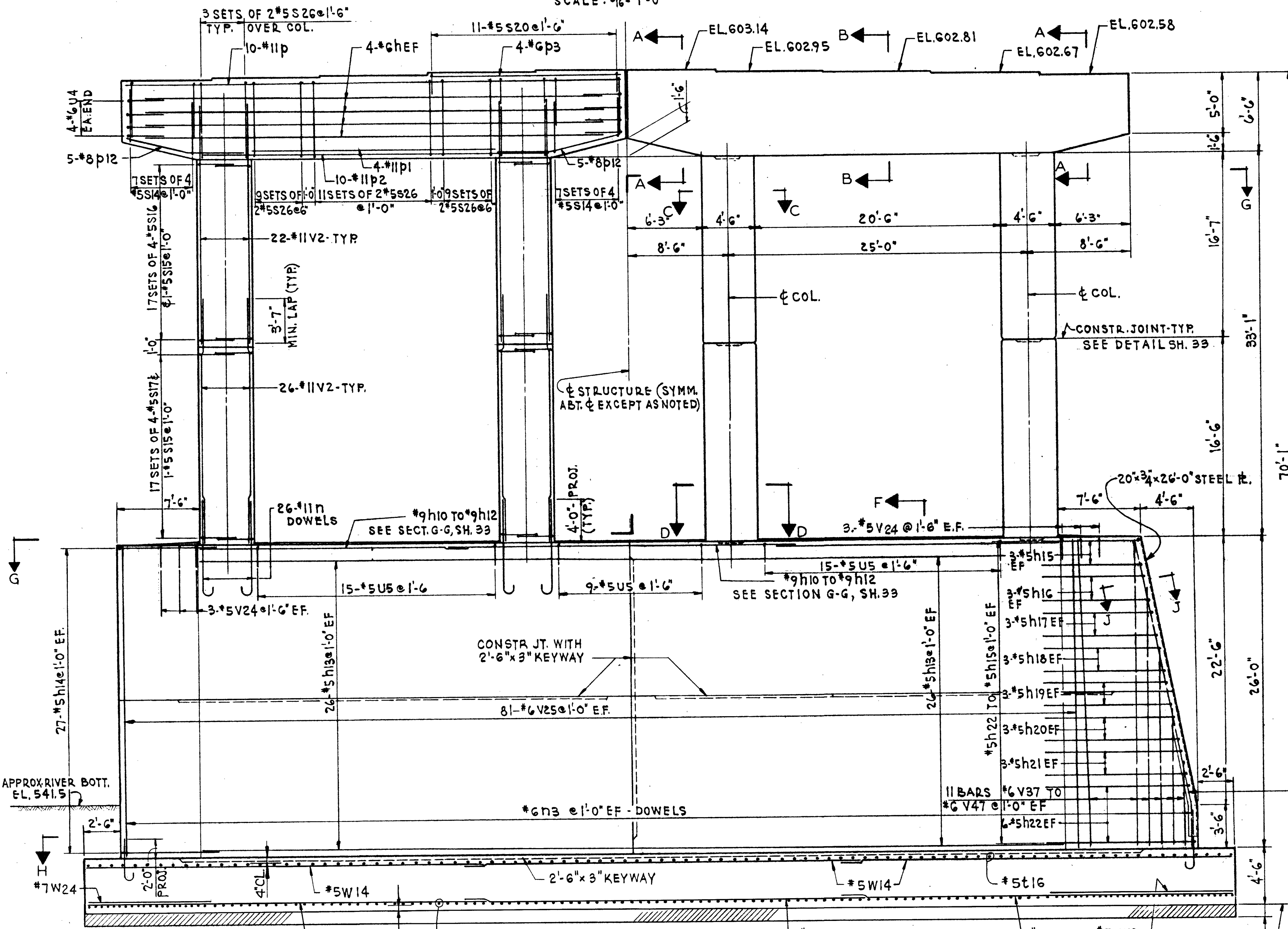




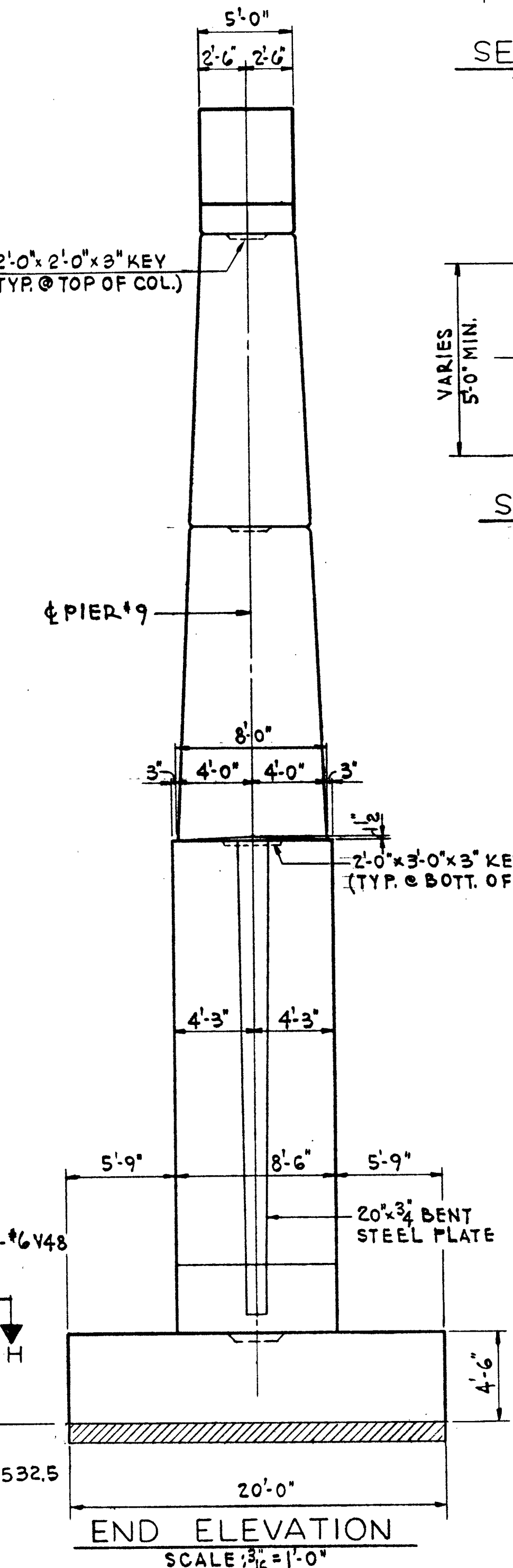
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	32
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



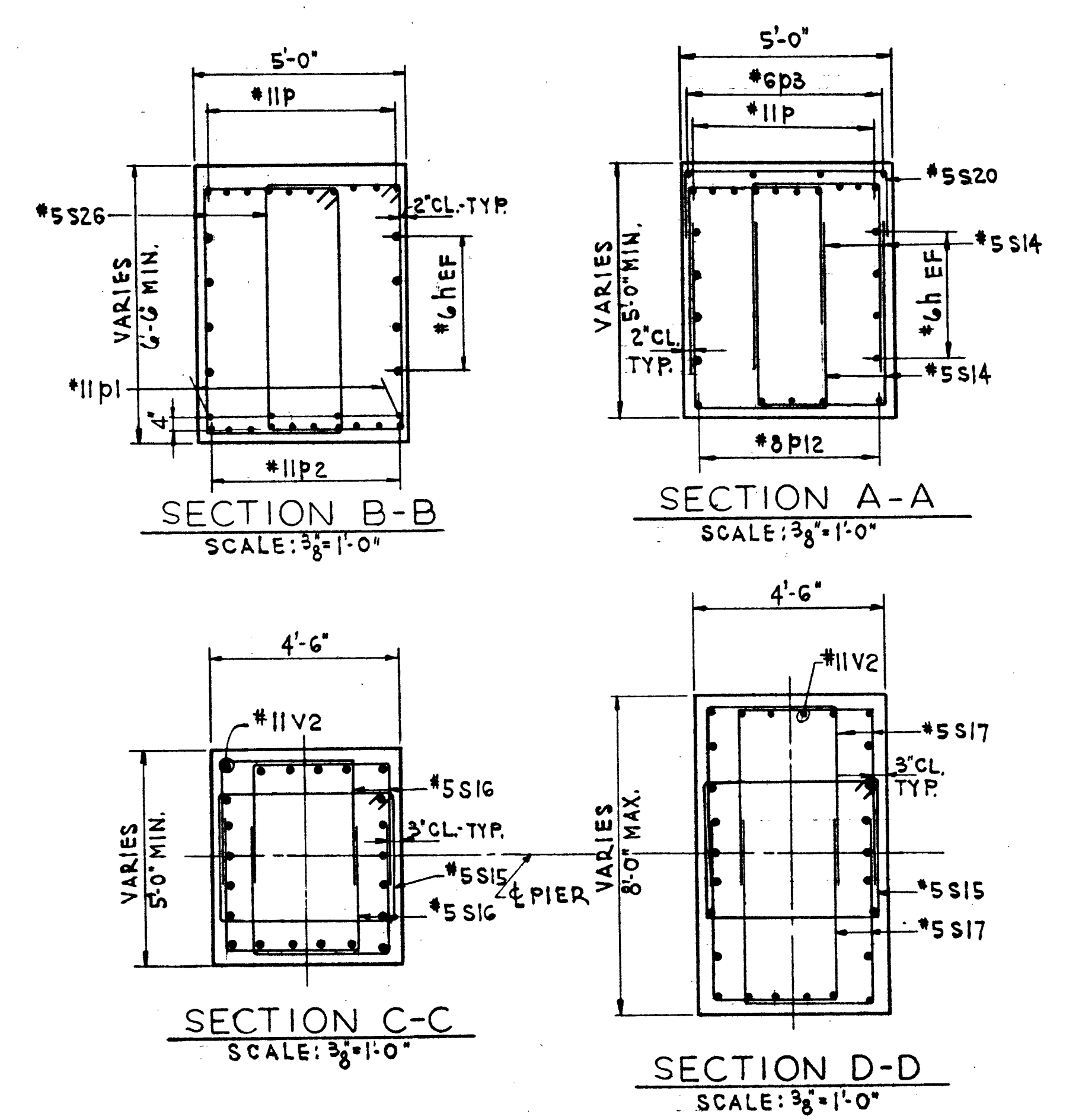
PLAN  
SCALE: 3/16" = 1'-0"



ELEVATION  
SCALE: 3/16" = 1'-0"



END ELEVATION  
SCALE: 3/16" = 1'-0"



NOTES:  
 SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED AND SET BY OTHERS.  
 ALL EDGES TO HAVE STANDARD 3/4" CHAMFER EXCEPT AS NOTED.  
 POUR STEPS MONOLITHICALLY WITH CAP.  
 ALL BAR DIMENSIONS ARE OUT TO OUT.  
 MIN. BAR LAP - 24 DIA. UNLESS OTHERWISE NOTED.  
 MAXIMUM BEARING PRESSURE ON SHALE 9.76 KIPS/SQ. FT. FOR AASHO. GROUP IX LOADING @ 150%  
 WORK THIS SHEET WITH SH. 33

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
Cofferdam Excavation	CU. YD.	498
ROCK EXCAVATION FOR STRUCTURE	CU. YD.	314
CLASS "X" CONCRETE	CU. YD.	1251.2
REINFORCEMENT BARS	POUND	83,890
STRUCTURAL STEEL	POUND	1640
CONCRETE SEAL	SQ. YD.	214
COFFERDAM	EA	1

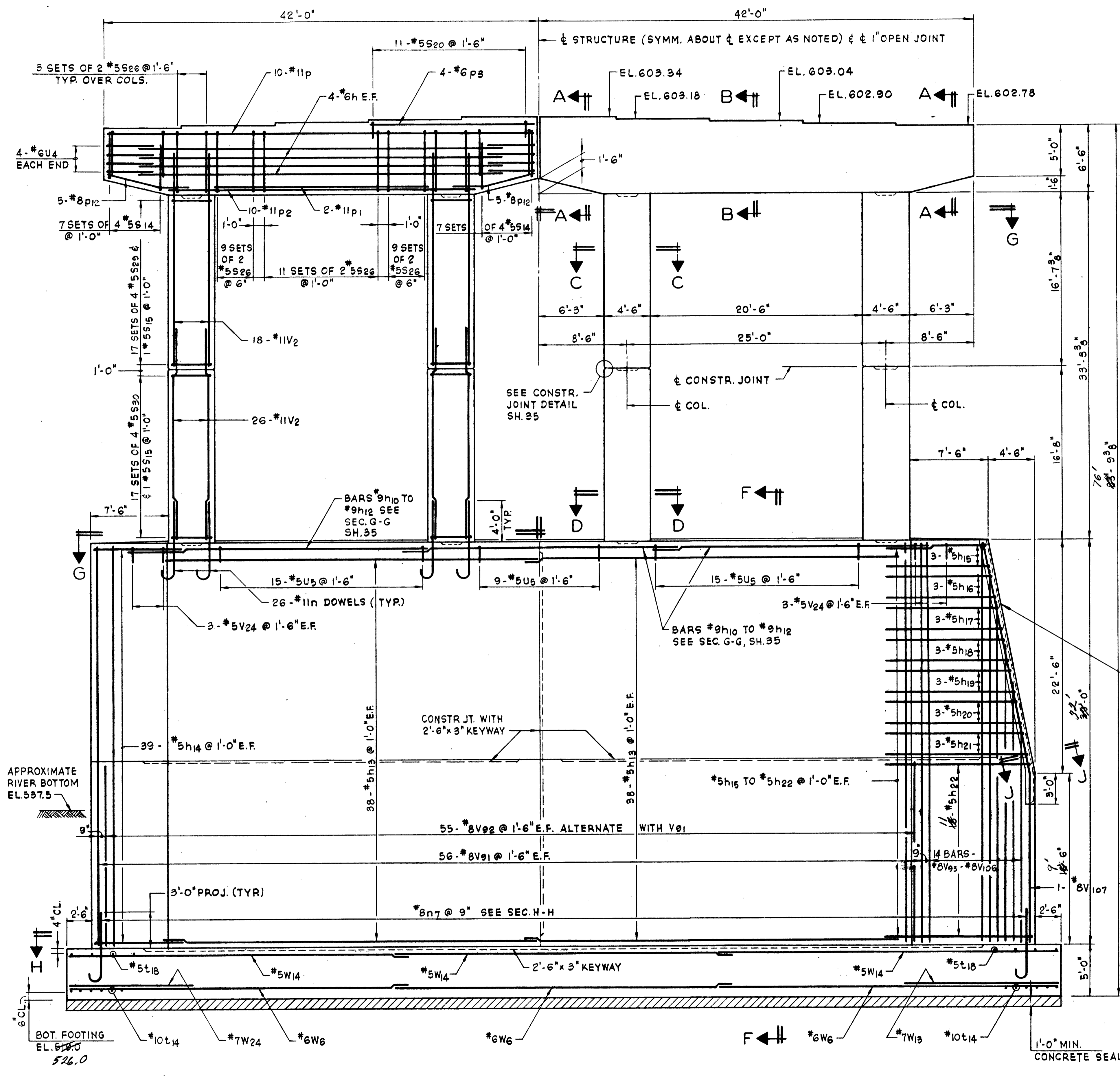
PIER 9  
 PLAN & ELEVATIONS  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY J. Y. HUANG  
 DRAWN BY A. BUROKAS  
 CHECKED J. Y. HUANG  
 IN CHARGE J. Y. HUANG  
 APPROVED W. G. HORN

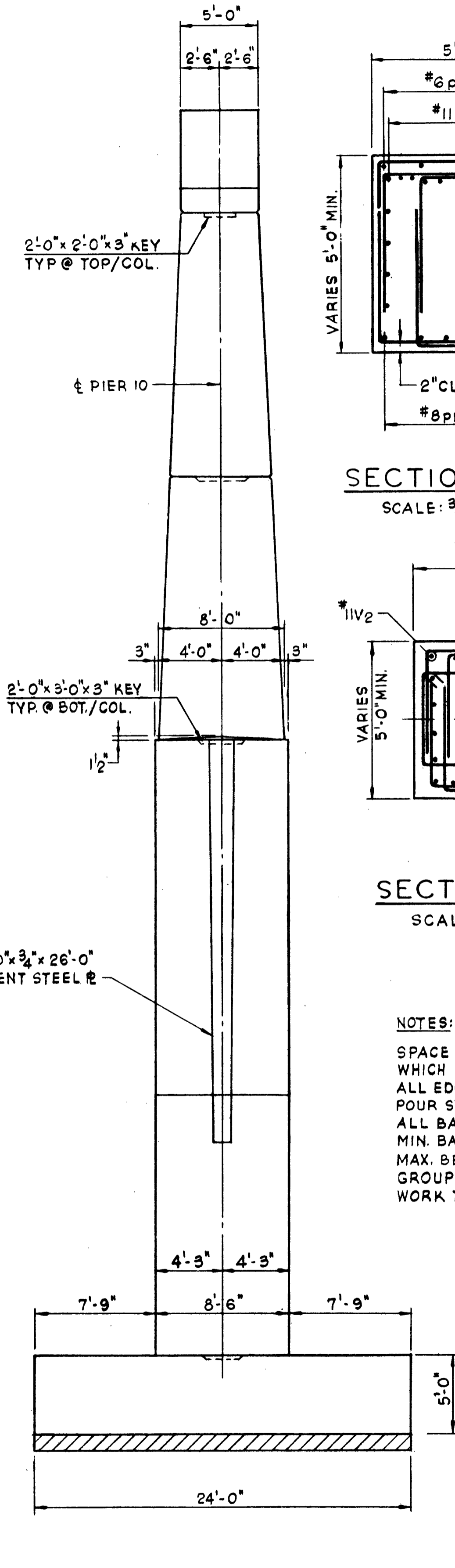




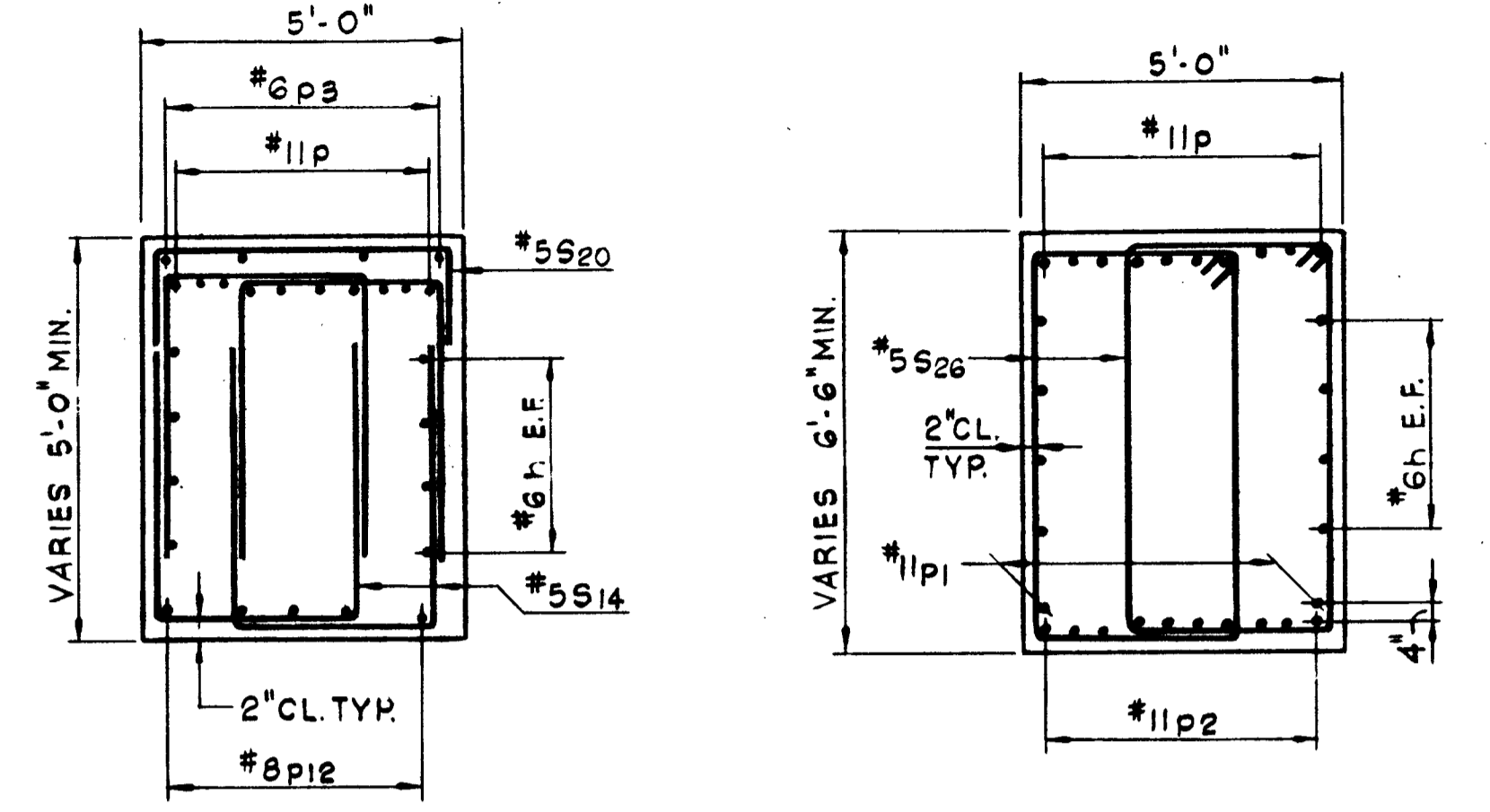
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	34
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



**ELEVATION**  
SCALE: 3/16" = 1'-0"

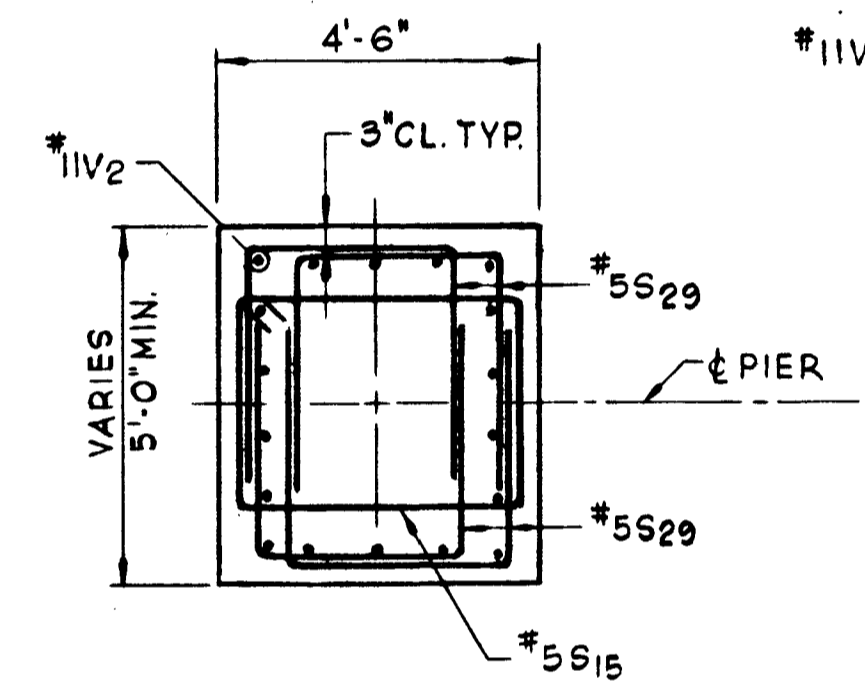


**END ELEVATION**  
SCALE: 3/16" = 1'-0"

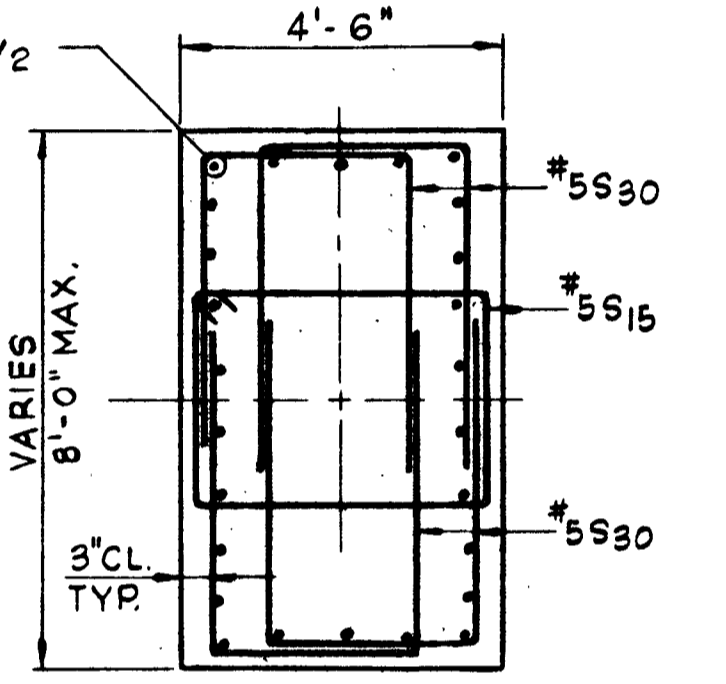


**SECTION A-A**  
SCALE: 3/8" = 1'-0"

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



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



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

**NOTES:**  
SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED AND SET BY OTHERS.  
ALL EDGES TO HAVE STANDARD 3/4" CHAMFER EXCEPT AS NOTED.  
POUR STEPS MONOLITHICALLY WITH CAP.  
ALL BAR DIMENSIONS ARE OUT TO OUT.  
MIN. BAR LAP 24 DIA. UNLESS OTHERWISE NOTED.  
MAX. BEARING PRESSURE ON SHALE 10.66 KIPS/SQ. FT. FOR AASHO. GROUP II LOADING @ 150%.  
WORK THIS SHEET WITH SH. 35.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
Cofferdam Excavation	CU. YD.	954
ROCK EXCAVATION FOR STRUCTURE	CU. YD.	857
CLASS "X" CONCRETE	CU. YD.	1107.15/119.5
REINFORCEMENT BARS	POUND	18,550/10,174.0
STRUCTURAL STEEL	POUND	1640
CONCRETE SEAL	SQ. YD.	256
COFFERDAM	EACH	1

(Revised 5-17-71)

**PIER 10 ELEVATIONS**

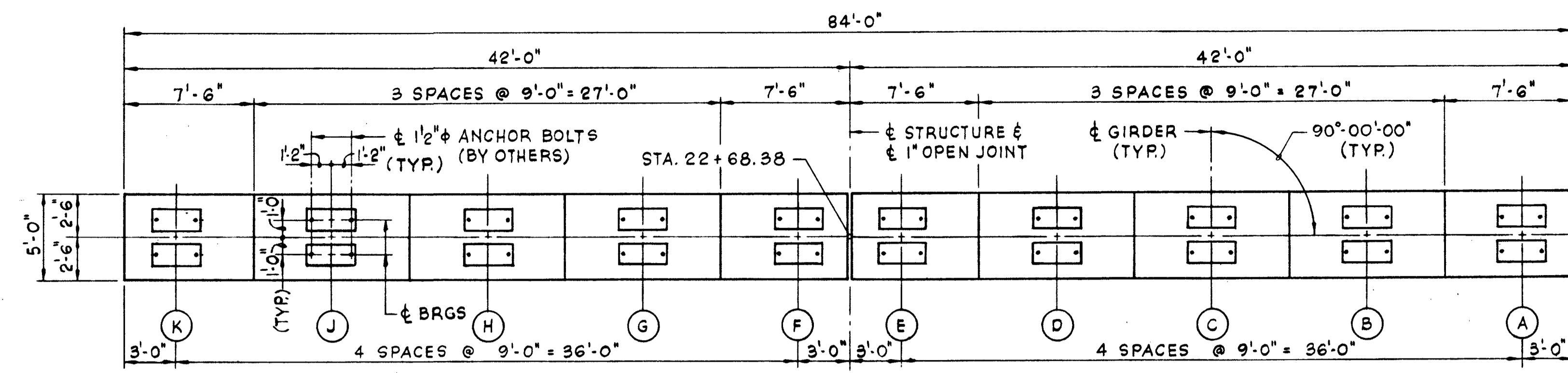
F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY J. N. LESLIE  
CHECKED BY J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

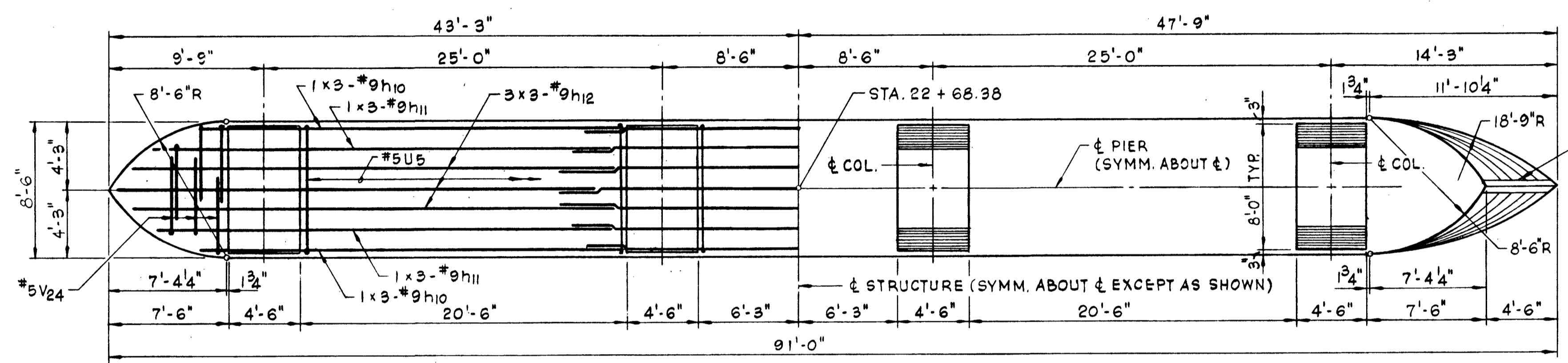
(Rev. 5-17-71) Rock Excav. from 857 to 340 cu. yds., Class X Conc. from 1707.1 to 1519.5 Cu. yds., Reinf. from 18,570 to 10,174 lbs. S.F.M



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	35
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	

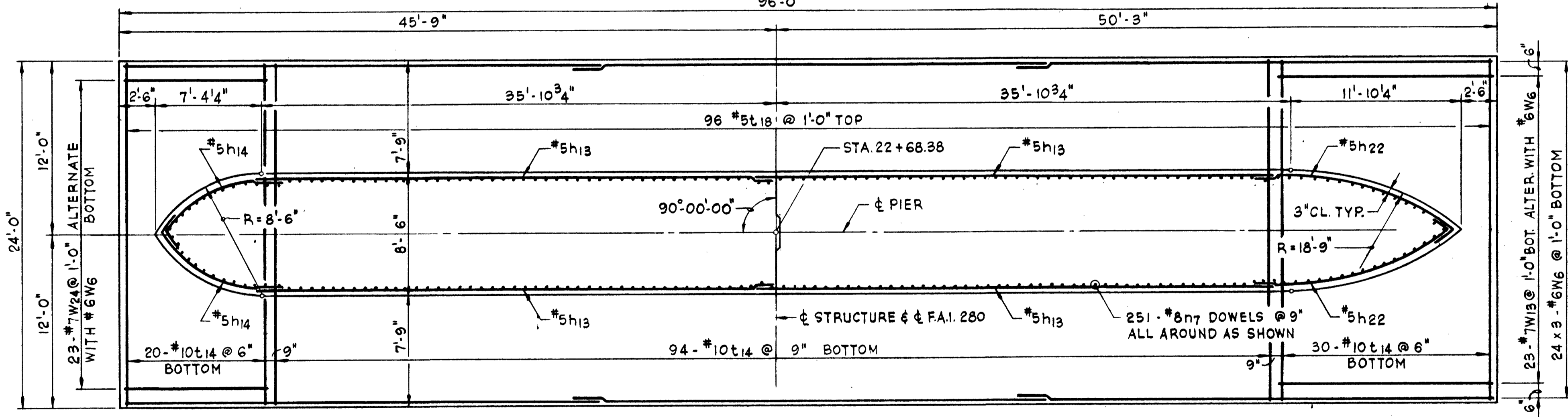


PLAN  
SCALE: 3/16" = 1'-0"



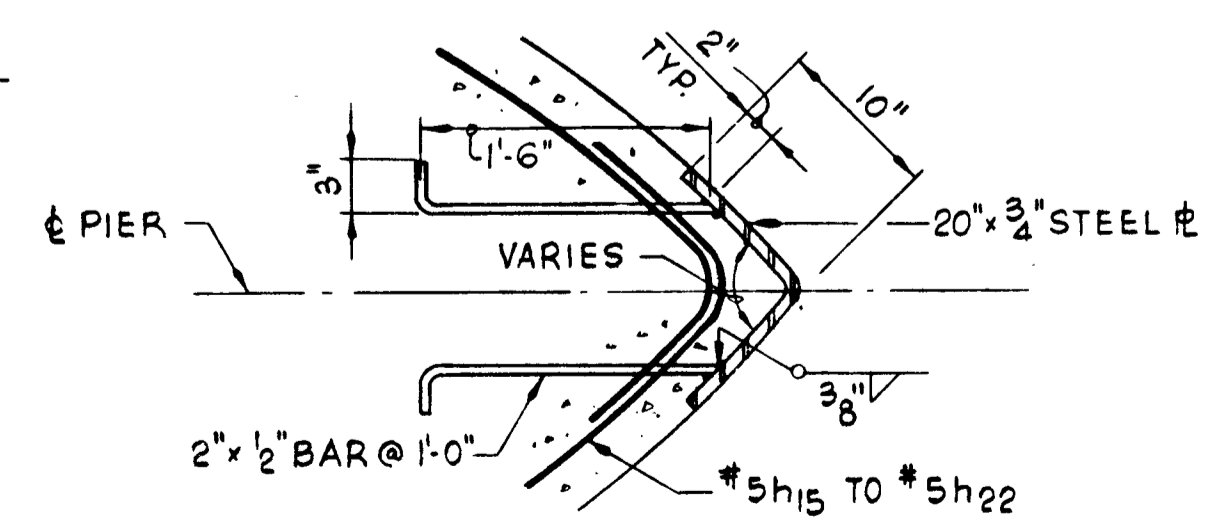
SECTION G-G  
SCALE: 3/16" = 1'-0"

KEY TO BAR INDICATION  
24x3-#6 INDICATES 24 LINES OF #6 BARS  
WITH 3 LENGTHS PER LINE.

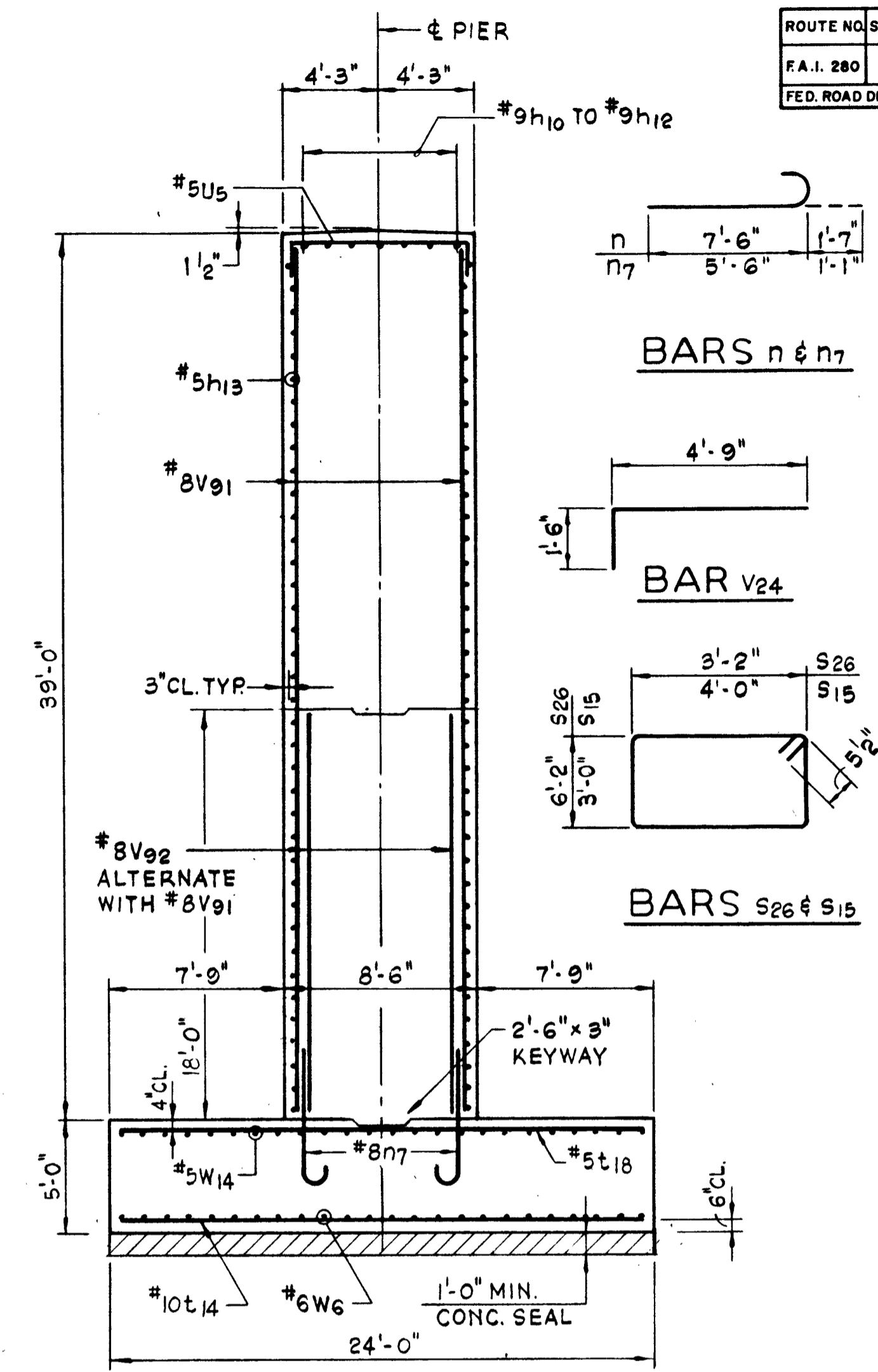


SECTION H-H - FOOTING PLAN  
SCALE: 3/16" = 1'-0"

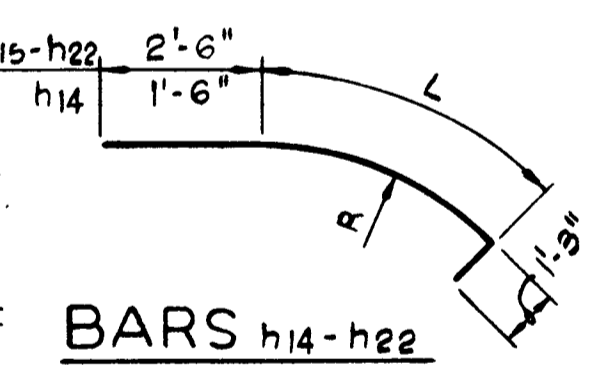
CONSTR. JT. DETAIL  
SCALE: 6" = 1'-0"



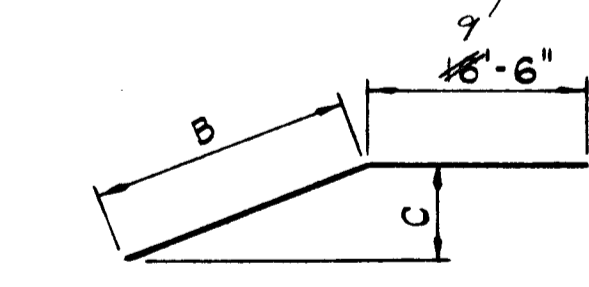
SECTION J-J  
SCALE: 1" = 1'-0"



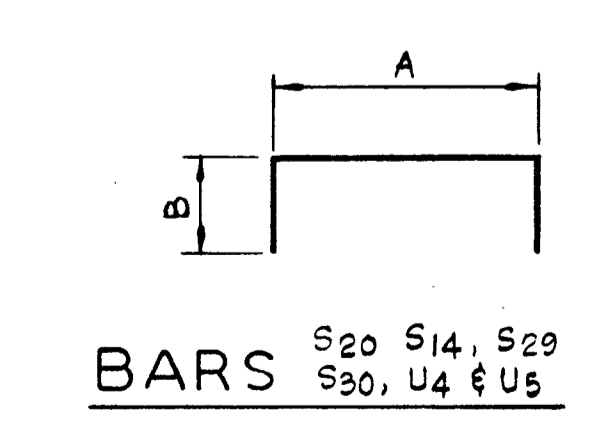
SECTION F-F  
SCALE: 3/16" = 1'-0"



BARS h14-h22



BARS V93-V107



BARS S20, S14, S29, S30, U4 & U5

NOTES  
WORK THIS SHEET WITH SH. 34

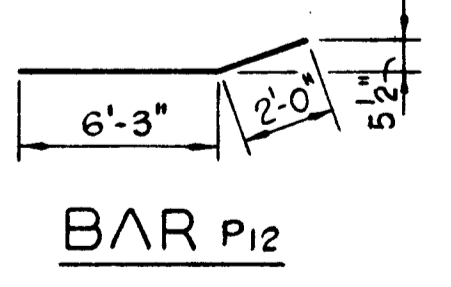
BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	16	6	36'-0"	—
h10	6	9	26'-6"	—
h11	6	9	29'-0"	—
h12	9	9	30'-6"	—
h13	5	5	36'-0"	—
h14	5	5	11'-3"	—
h15	6	5	12'-5"	—
h16	6	5	12'-11"	—
h17	6	5	13'-6"	—
h18	6	5	14'-0"	—
h19	6	5	14'-7"	—
h20	6	5	15'-1"	—
h21	6	5	15'-7"	—
h22	5	5	16'-5"	—
n	104	11	9'-1"	—
n7	251	8	6'-7"	—
p	20	11	41'-6"	—
p1	4	11	21'-0"	—
p2	20	11	29'-0"	—
p3	8	6	16'-0"	—
p12	20	8	8'-3"	—
s20	22	5	7'-8"	—
s26	140	5	19'-7"	—
s14	112	5	11'-10"	—
s15	136	5	14'-11"	—
s29	272	5	10'-6"	—
s30	272	5	12'-0"	—
t14	144	10	23'-6"	—
t18	96	5	23'-6"	—
u4	16	6	13'-8"	—
u5	39	5	11'-0"	—
v2	176	11	20'-9"	—
v24	12	5	6'-3"	—
v91	112	8	31'-9"	—
v92	110	8	18'-0"	—
v93	2	8	31'-9"	—
v94	2	8	31'-9"	—
v95	2	8	31'-9"	—
v96	2	8	31'-9"	—
v97	2	8	31'-9"	—
v98	2	8	31'-9"	—
v99	2	8	31'-9"	—
v100	2	8	31'-9"	—
v101	2	8	31'-9"	—
v102	2	8	31'-9"	—
v103	2	8	31'-9"	—
v104	2	8	31'-9"	—
v105	2	8	31'-9"	—
v106	2	8	31'-9"	—
v107	1	8	31'-9"	—
w6	72	6	33'-0"	—
w13	23	7	15'-0"	—
w14	72	5	32'-9"	—
w24	23	7	10'-0"	—

BAR	R	L	BAR	R	L
h14	8'-3"	8'-6"	h19	13'-2 3/8"	10'-10"
h15	8'-4 1/2"	8'-8"	h20	14'-7 1/2"	11'-4"
h16	9'-5 1/2"	9'-2"	h21	16'-1 5/8"	11'-10"
h17	10'-7 1/2"	9'-9"	h22	18'-6"	12'-8"
h18	11'-10 1/4"	10'-3"			

BAR	B	C	BAR	B	C
v93	22'-3"	1 1/2"	v101	22'-3"	2'-0"
v94	22'-3"	5"	v102	21'-0"	2'-4"
v95	22'-3"	4"	v103	16'-6"	1'-9"
v96	22'-3"	6"	v104	12'-0"	1'-6"
v97	22'-3"	8 1/2"	v105	7'-6"	1'-1"
v98	22'-3"	1'-0"	v106	3'-0"	7"
v99	22'-3"	1'-3"	v107	22'-9"	4'-6"
v100	22'-3"	1'-8"			

BAR	A	B
s20	4'-8"	1'-6"
s14	3'-2"	4'-4"
s29	3'-0"	3'-9"
s30	3'-0"	4'-6"
u4	4'-8"	4'-6"
u5	8'-0"	1'-6"

REVISED  
5-17-71



BAR P12

PIER 10  
CAP, WALL & FOOTING

F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

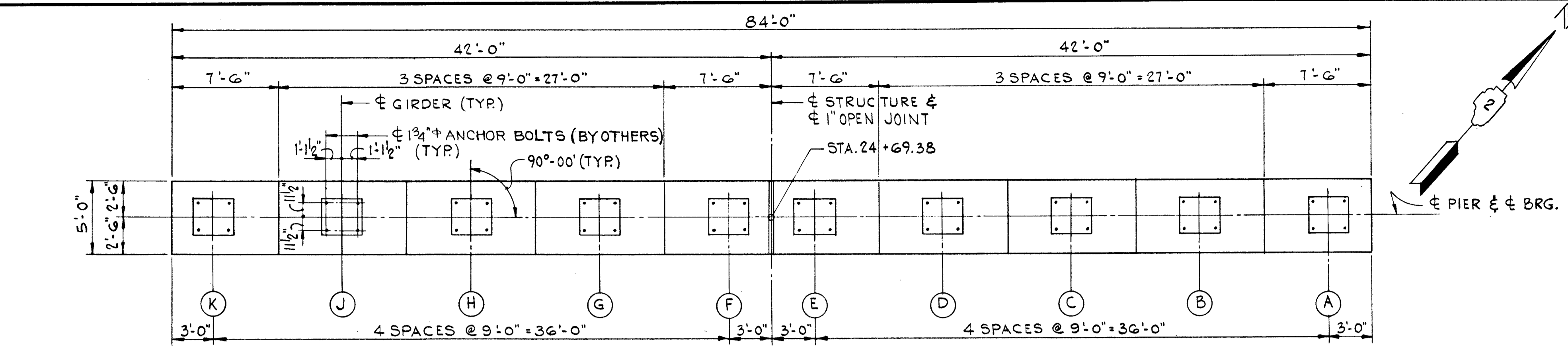
DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY J. N. LESLIE  
CHECKED J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

REV 5-17-71 S.F.M.

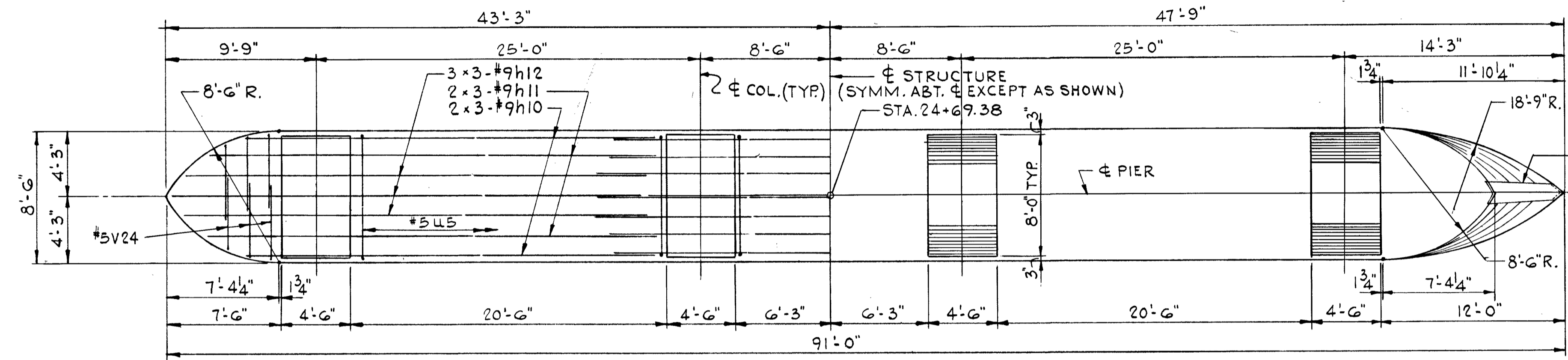




ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	37
FED. ROAD DIST. NO.	FED. AID. PROJECT I-280			

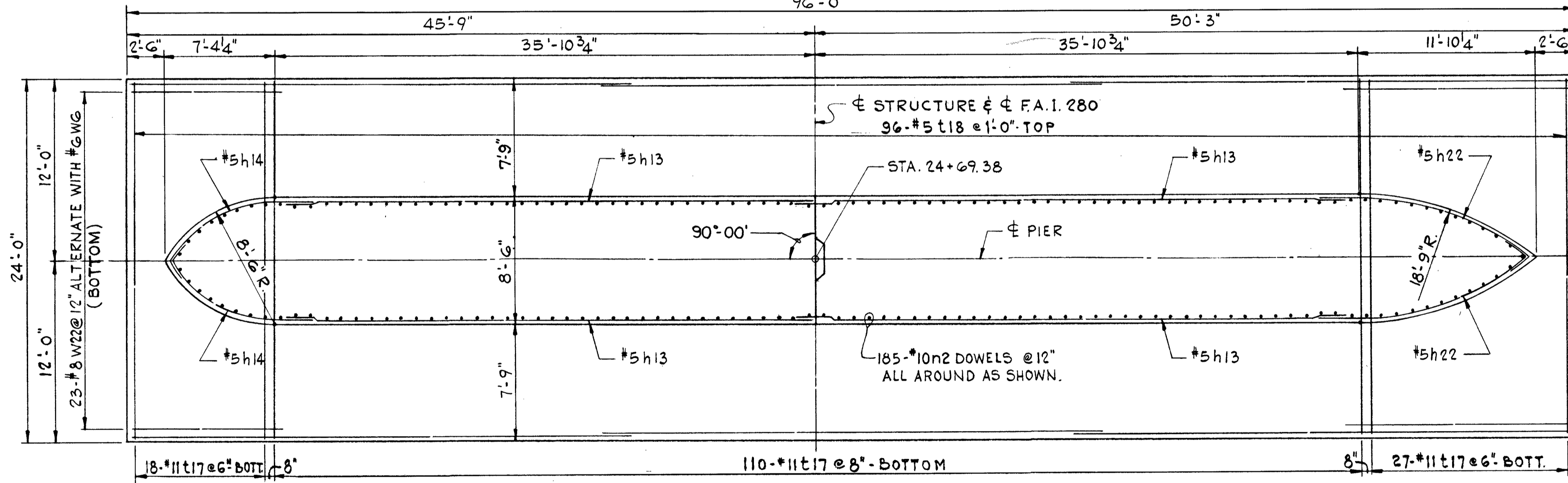


PLAN  
SCALE: 3/16" = 1'-0"

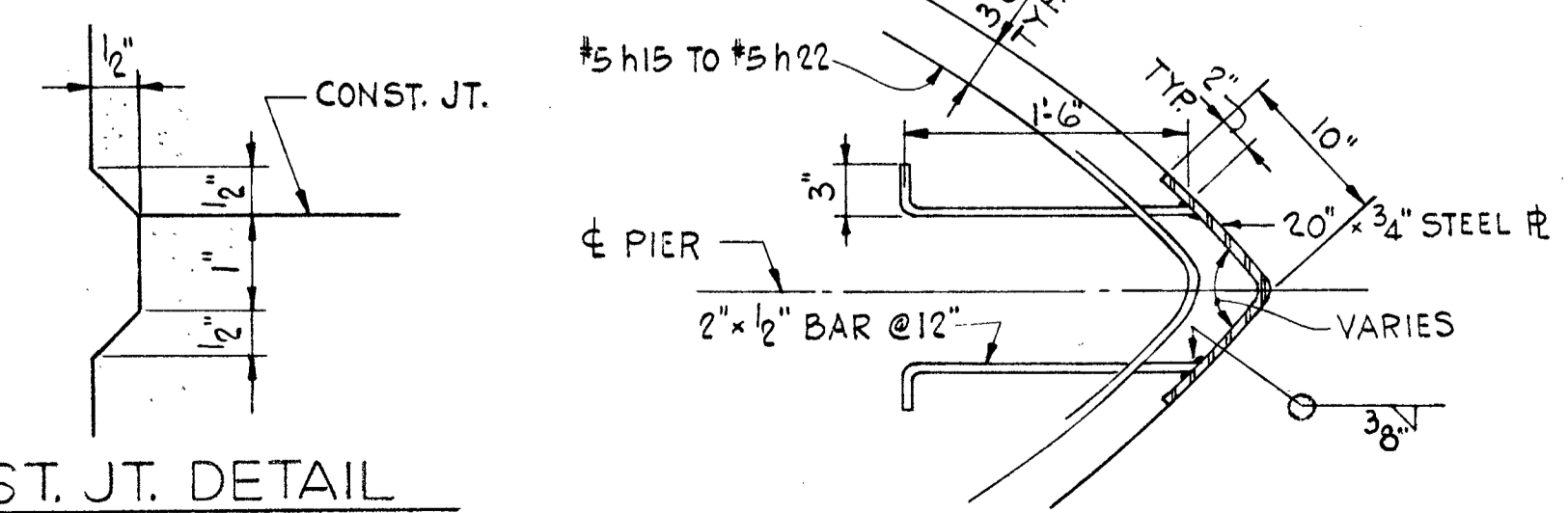


SECTION G-G  
SCALE: 3/16" = 1'-0"

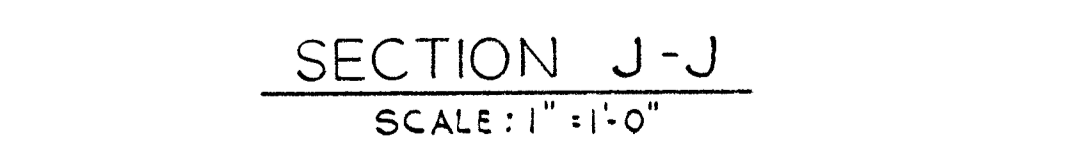
KEY TO BAR INDICATION:  
26x3-#6 INDICATES 26 LINES OF #6 BARS WITH 3 BARS PER LINE.



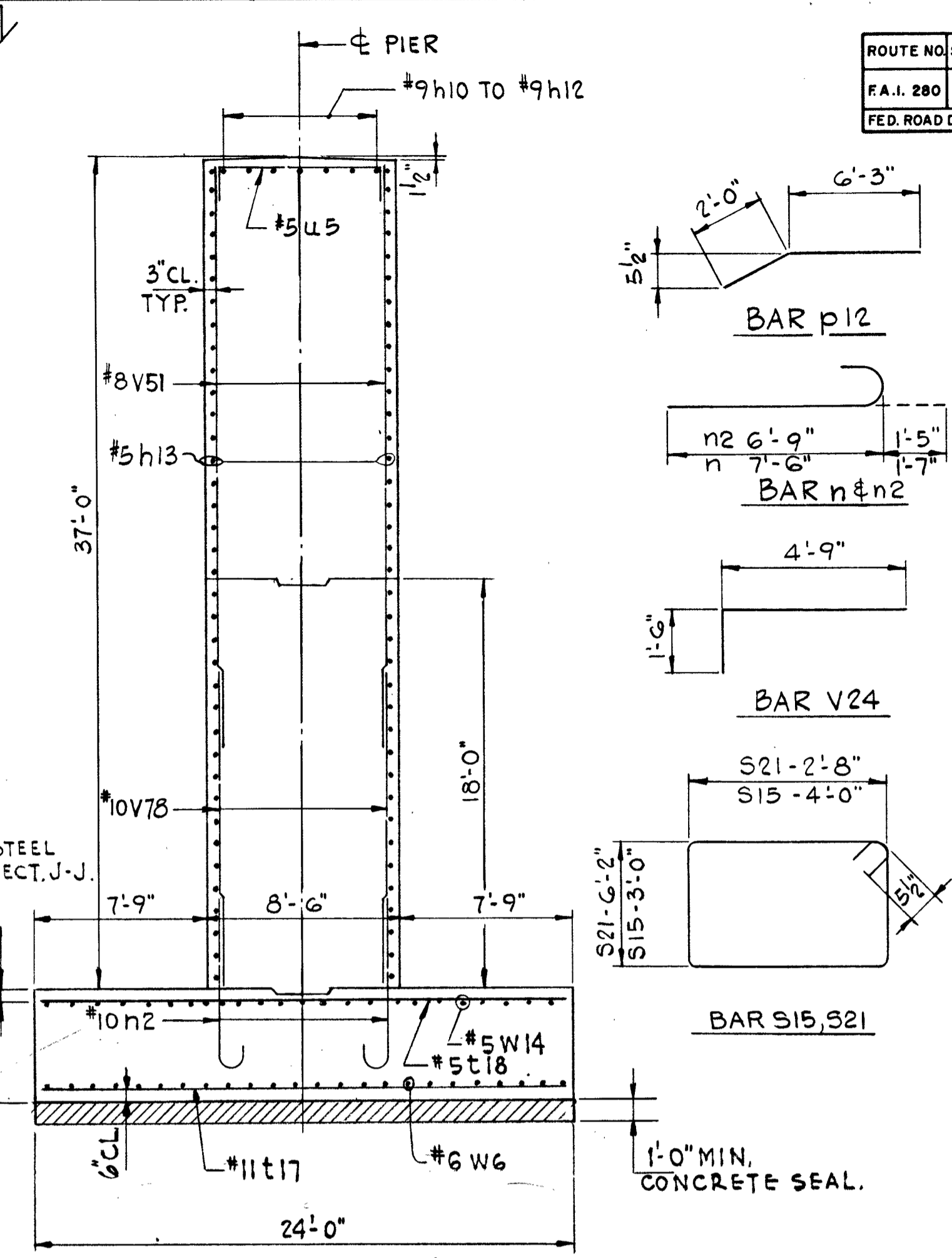
SECTION E-E - FOOTING PLAN  
SCALE: 3/16" = 1'-0"



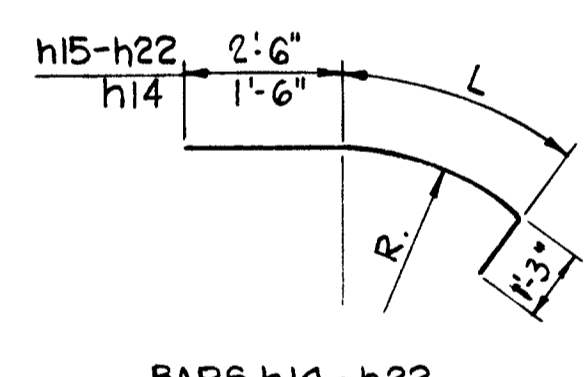
CONST. JT. DETAIL  
SCALE: 6" = 1'-0"



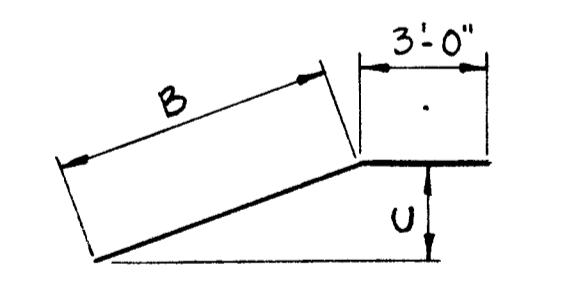
SECTION J-J  
SCALE: 1" = 1'-0"



SECTION F-F  
SCALE: 3/16" = 1'-0"



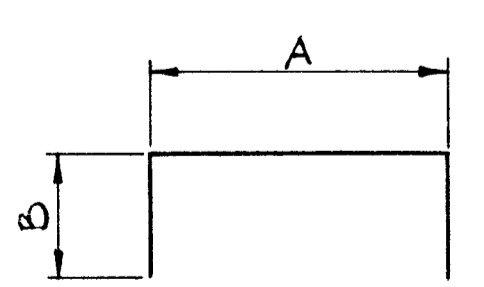
BARS h14-h22



BARS V79-V90

BAR	R	L	BAR	R	L
h14	8'-3"	8'-6"	h19	13'-2 1/2"	10'-10"
h15	8'-4 1/2"	8'-8"	h20	14'-7 1/2"	11'-4"
h16	9'-5 1/2"	9'-2"	h21	16'-7 1/2"	11'-0"
h17	10'-7 1/2"	9'-9"	h22	18'-6"	12'-8"
h18	11'-10 1/2"	10'-3"			

BAR	B	C	BAR	B	C
V79	22'-3"	1 1/2"	V86	21'-0"	2'-0"
V80	22'-3"	3"	V87	15'-0"	1'-6"
V81	22'-3"	5 1/2"	V88	9'-0"	1'-0"
V82	22'-3"	9"	V89	3'-9"	3"
V83	22'-3"	1'-1"	V90	22'-9"	4'-6"
V84	22'-3"	1'-6"			
V85	22'-3"	2'-0"			



BARS S20, S22, S24, S25, U4, U5

BAR	A	B
S20	4'-8"	1'-6"
S22	2'-8"	4'-4"
S24	2'-8"	3'-9"
S25	2'-8"	4'-6"
U4	4'-8"	4'-6"
U5	8'-0"	1'-6"

BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	16	#6	36'-0"	
h10	6	#9	26'-6"	
h11	6	#9	29'-0"	
h12	9	#9	30'-6"	
h13	144	#5	36'-0"	
h14	74	#5	11'-3"	
h15	6	#5	12'-5"	
h16	6	#5	12'-11"	
h17	6	#5	13'-6"	
h18	6	#5	14'-0"	
h19	6	#5	14'-7"	
h20	6	#5	15'-1"	
h21	6	#5	15'-7"	
h22	32	#5	16'-5"	
n2	185	#10	8'-2"	
n	128	#11	9'-1"	
p	20	#11	41'-6"	
p1	16	#11	21'-0"	
p2	20	#11	29'-0"	
p3	8	#6	16'-0"	
p5	16	#11	15'-0"	
p12	24	#8	8'-3"	
S20	22	#5	7'-8"	
S21	222	#5	18'-7"	
S22	216	#5	11'-4"	
S15	144	#5	14'-11"	
S24	288	#5	10'-2"	
S25	288	#5	11'-8"	
t18	96	#5	23'-6"	
t17	155	#11	23'-6"	
U4	16	#6	13'-8"	
U5	39	#5	11'-0"	
V24	12	#5	6'-3"	
V6	96	#11	22'-0"	
V9	128	#11	21'-6"	
V78	185	#10	14'-3"	
V52	2	#8	25'-3"	
V53	2	#8	25'-3"	
V54	2	#8	25'-3"	
V55	2	#8	25'-3"	
V56	2	#8	25'-3"	
V57	2	#8	25'-3"	
V58	2	#8	25'-3"	
V59	2	#8	24'-0"	
V80	2	#8	18'-0"	
V81	2	#8	12'-0"	
V82	2	#8	6'-9"	
V83	1	#8	25'-9"	
V51	162	#8	25'-6"	
W6	72	#6	33'-0"	
W22	23	#8	10'-0"	
W23	23	#8	15'-0"	
W14	72	#5	32'-9"	

REVISED  
6-4-71

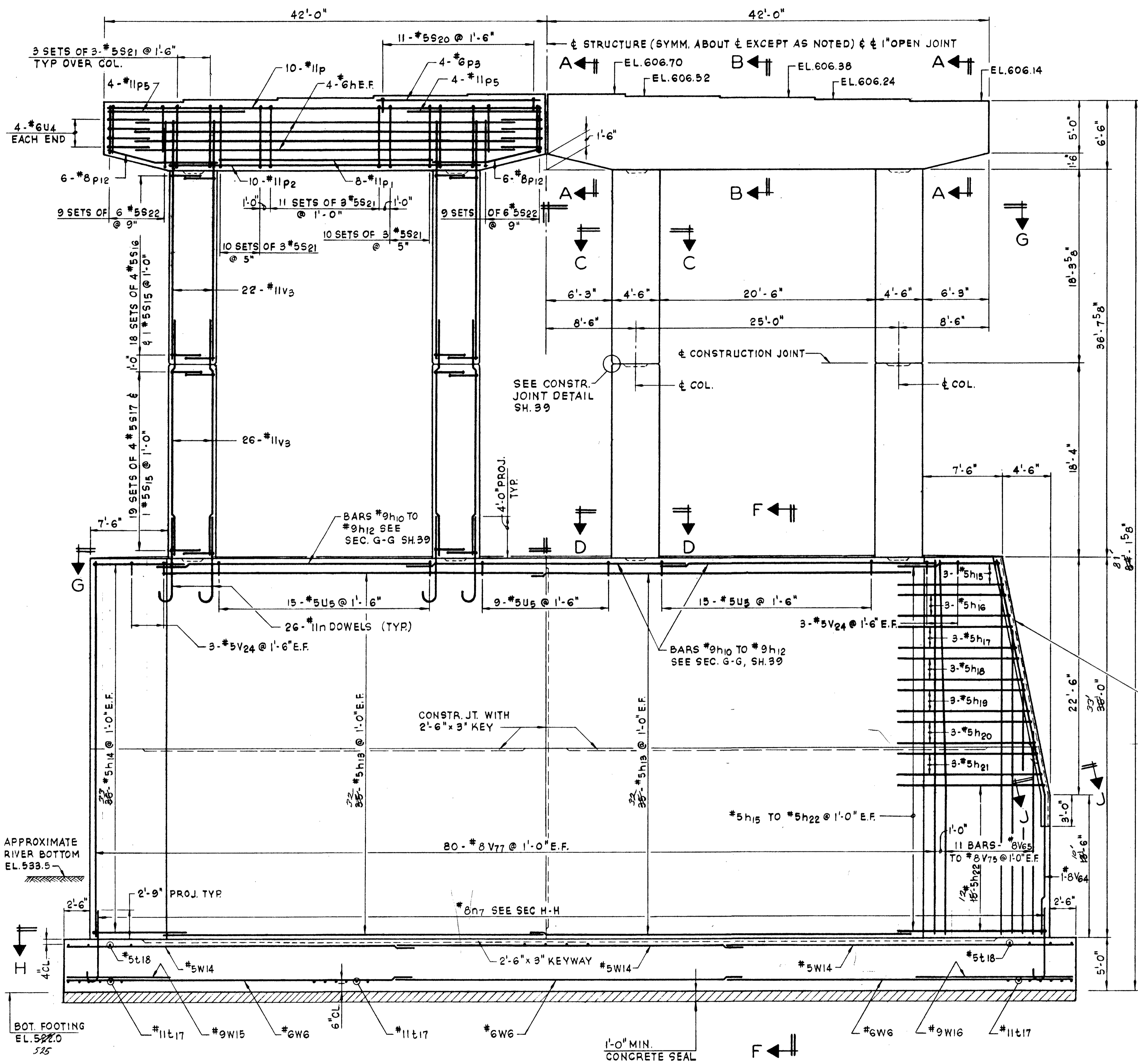
PIER II  
CAP, WALL & FOOTING  
F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY S. MUELLER  
CHECKED J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

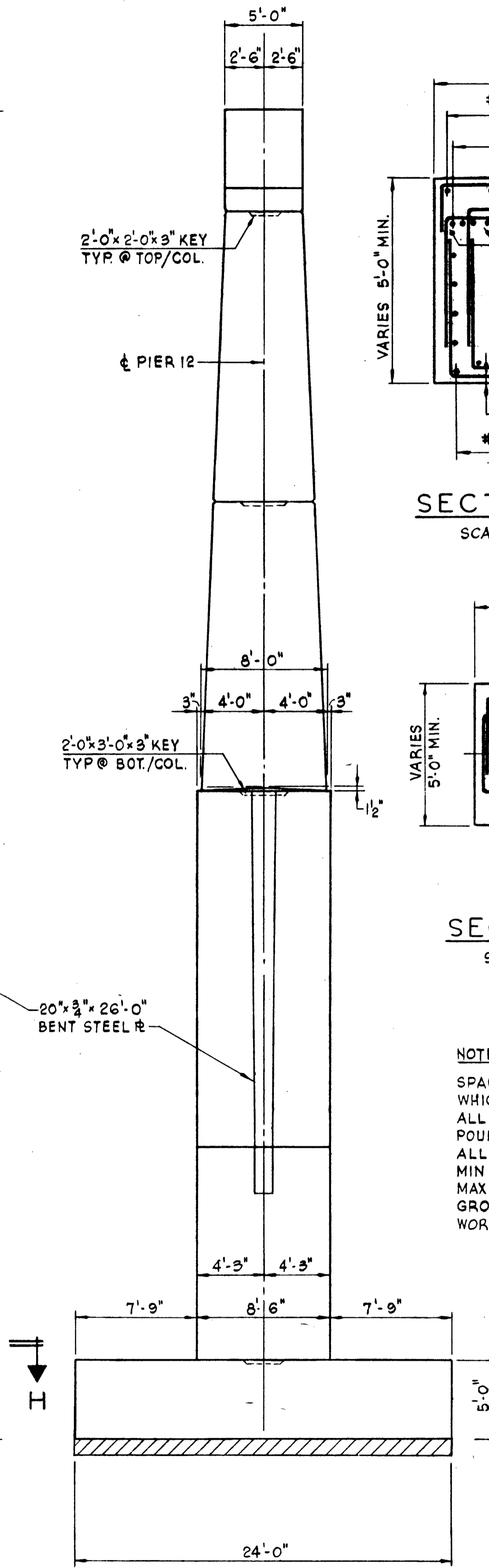
REV. 6-4-71 S.M.

NOTE:  
WORK THIS SHEET WITH SH. 36

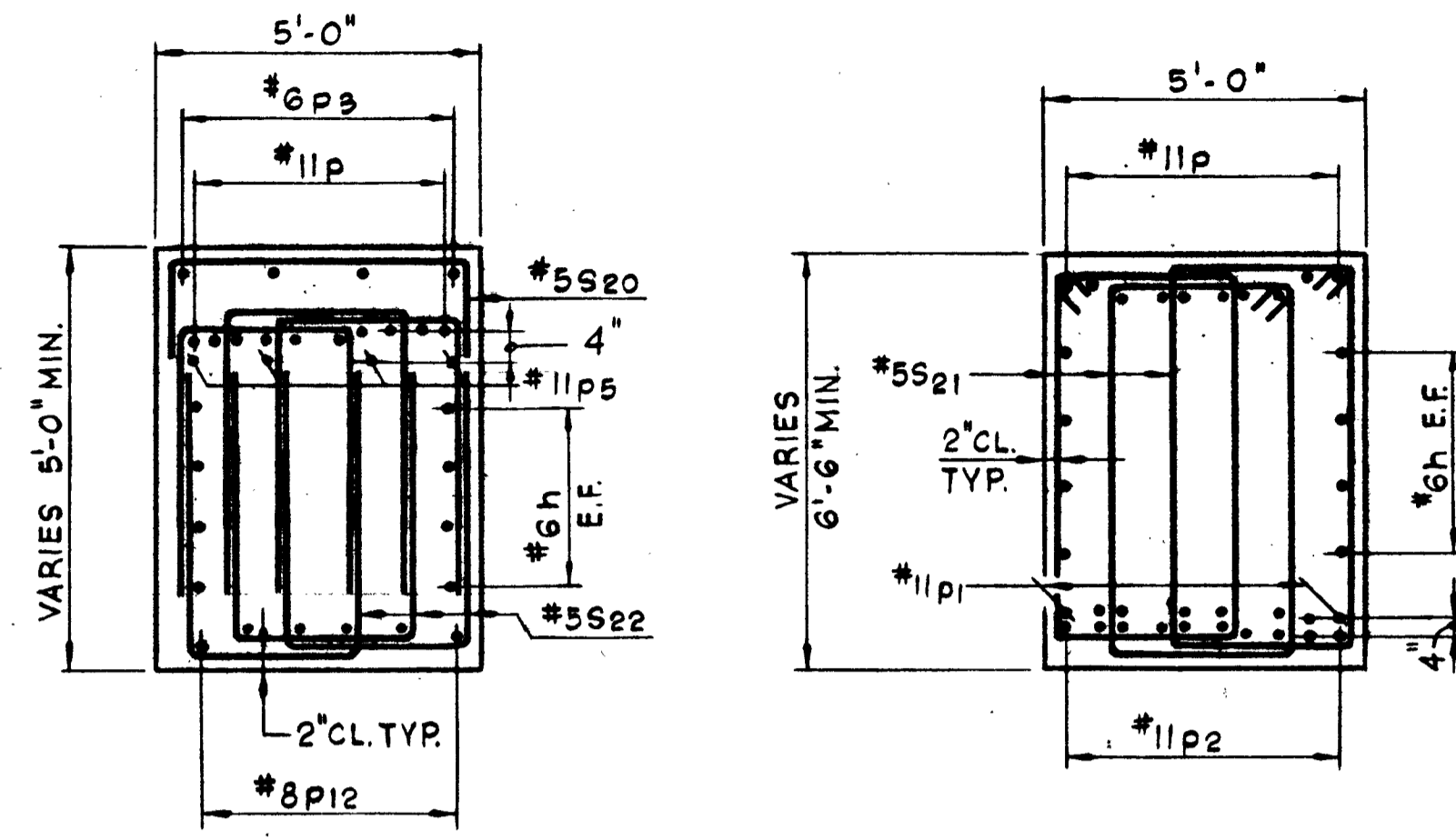
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	38
FED. ROAD DIST. NO.		FED. AID PROJECT	1-280	



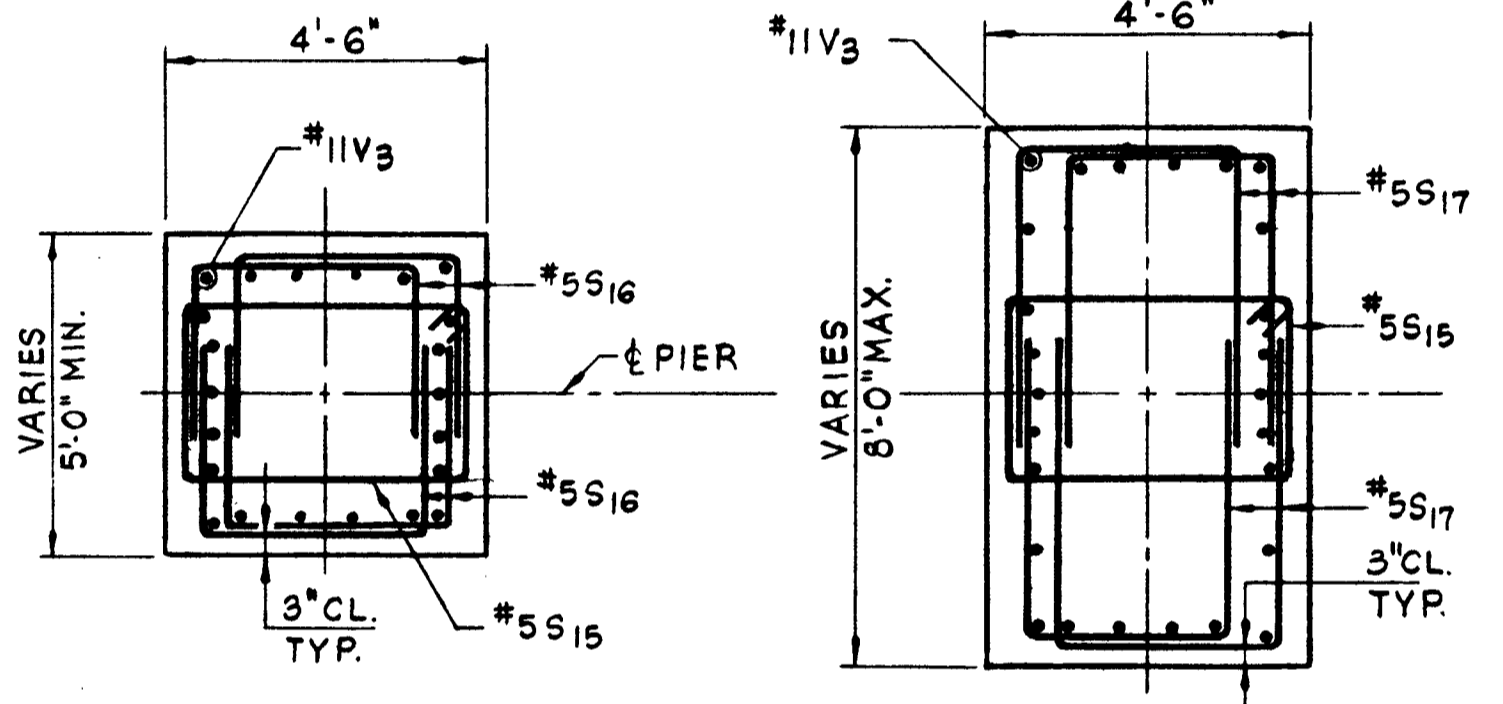
**ELEVATION**  
SCALE: 3/16" = 1'-0"



**END ELEVATION**  
SCALE: 3/16" = 1'-0"



**SECTION A-A** SCALE: 3/8" = 1'-0"  
**SECTION B-B** SCALE: 3/8" = 1'-0"



**SECTION C-C** SCALE: 3/8" = 1'-0"  
**SECTION D-D** SCALE: 3/8" = 1'-0"

**NOTES:**  
SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED AND SET BY OTHERS.  
ALL EDGES TO HAVE STANDARD 3/4" CHAMFER EXCEPT AS NOTED.  
POUR STEPS MONOLITHICALLY WITH CAP.  
ALL BAR DIMENSIONS ARE OUT TO OUT.  
MIN BAR LAP 24 DIA. UNLESS OTHERWISE NOTED.  
MAX. BEARING PRESSURE ON SHALE 11.58 KIPS/SQ. FT., FOR A.A.S.H.O. GROUP X LOADING @ 150%  
WORK THIS SHEET WITH SH. 39

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
Cofferdam Excavation	CU. YD.	571
ROCK EXCAVATION FOR STRUCTURE	CU. YD.	556.390
CLASS "X" CONCRETE	CU. YD.	1641.150.7
REINFORCEMENT BARS	POUND	114,360/112,270
STRUCTURAL STEEL	POUND	1640
CONCRETE SEAL	SQ. YD.	256
COFFERDAM	EACH	1

*Revised 5-18-71*

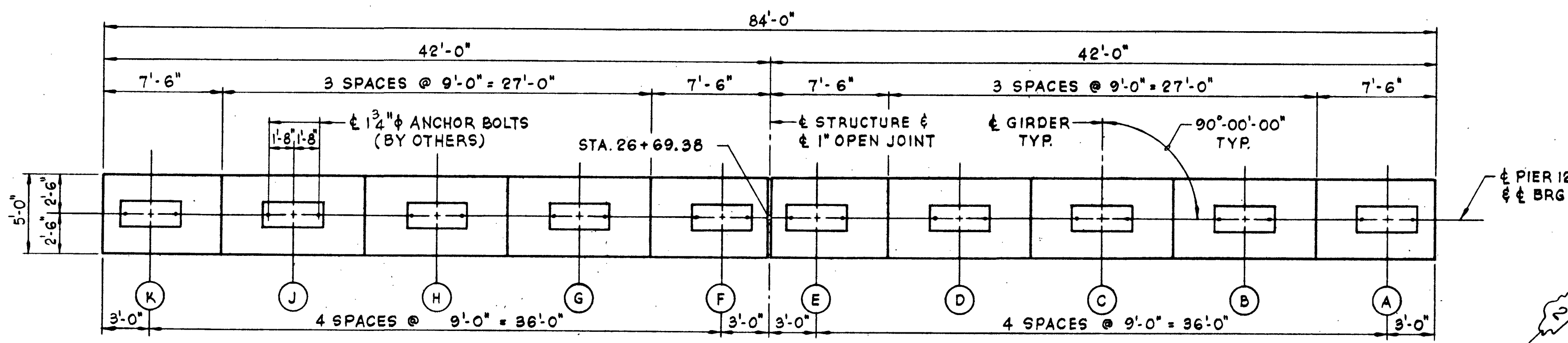
**PIER 12 ELEVATIONS**  
F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHY & COMPANY ENGINEERS  
DESIGNED BY J. Y. HUANG  
DRAWN BY J. N. LESLIE  
CHECKED BY J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

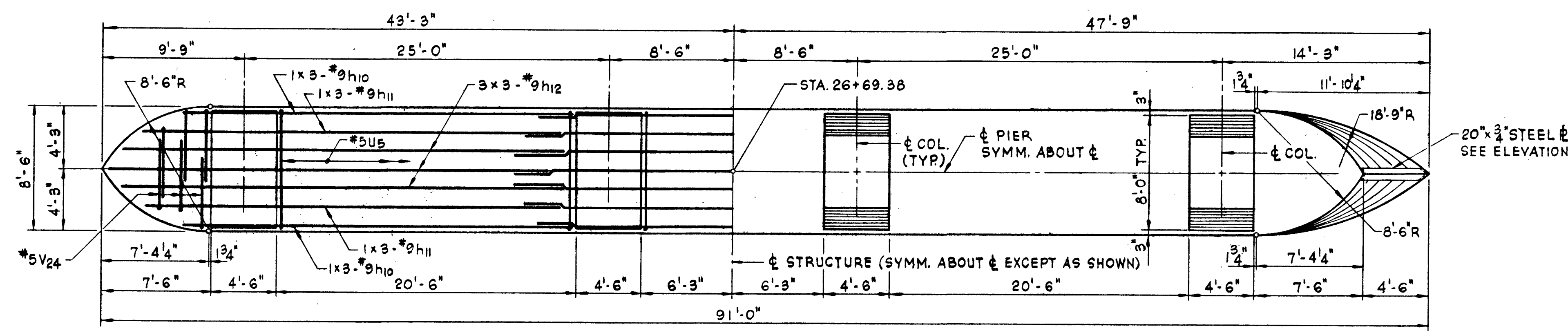
(Rev. 5-18-71) Rock Exc from 556 to 300 Cu. yds., Class X Conc. from 1641.1 to 1560 Cu. yds., Reinf. from 114,360 to 112,270 lbs. S.F.M.



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	39
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	

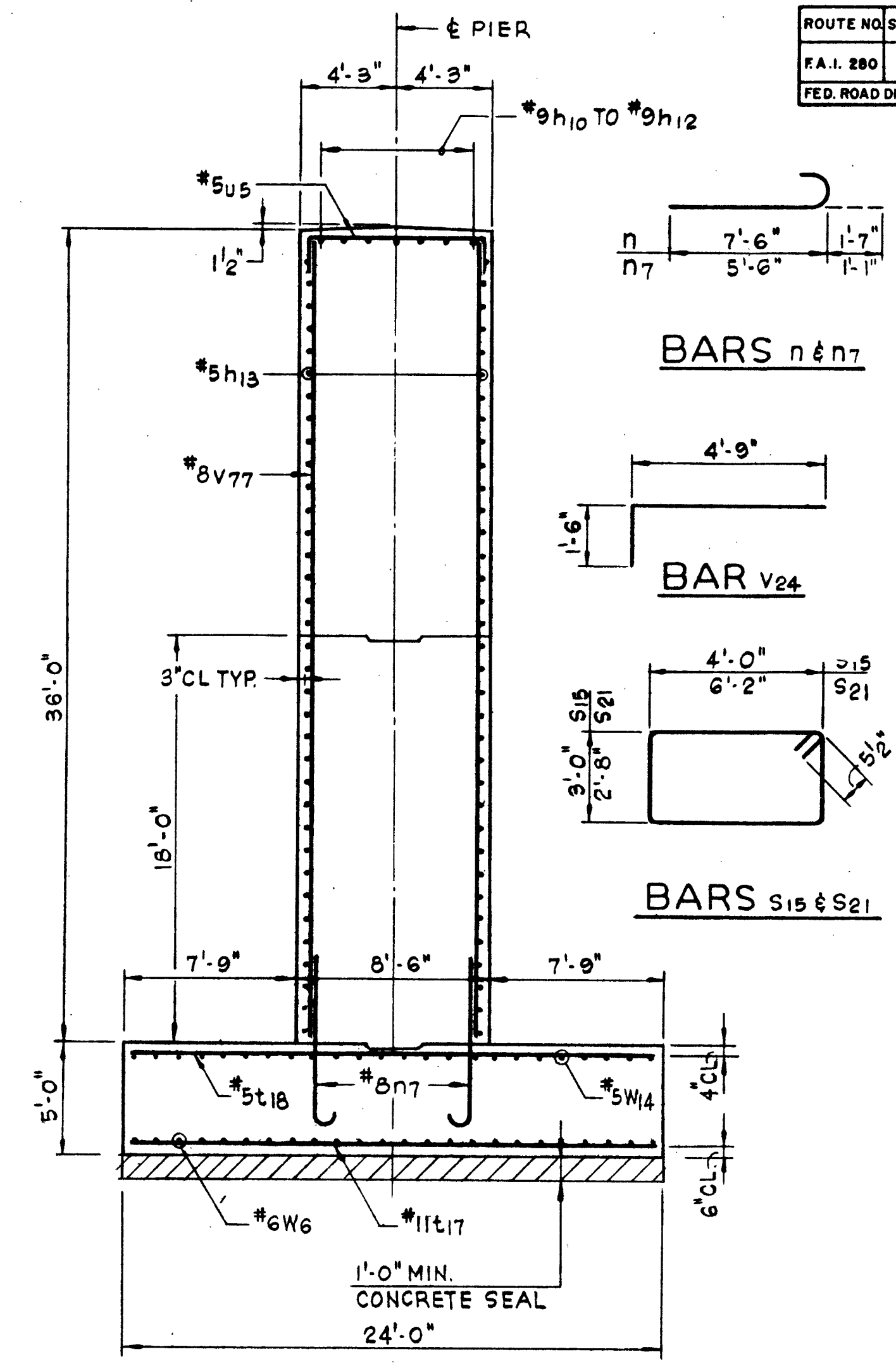


PLAN  
SCALE: 3/16" = 1'-0"

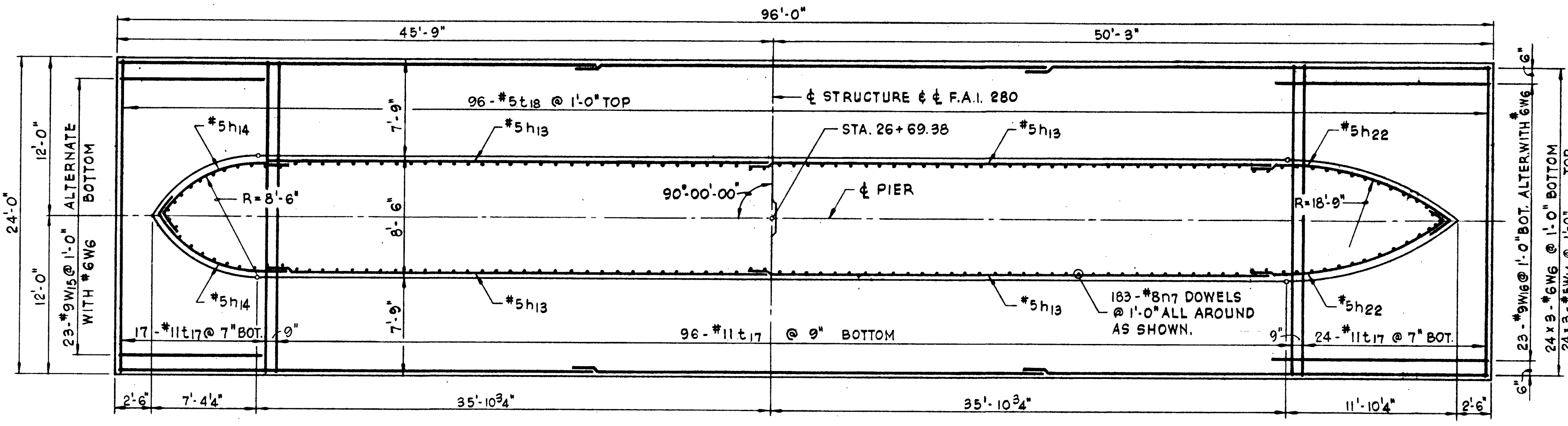


SECTION G-G  
SCALE: 3/16" = 1'-0"

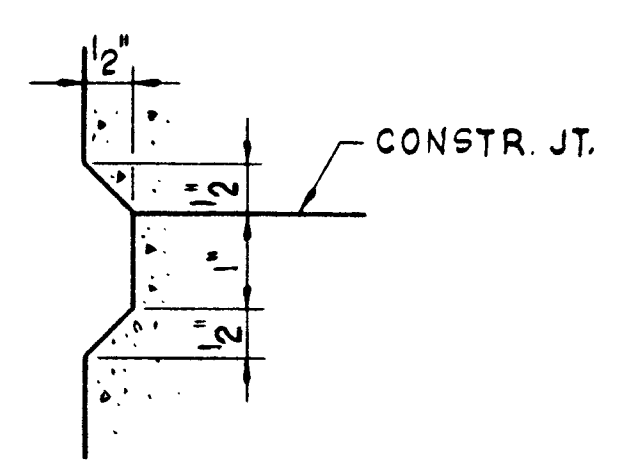
KEY TO BAR INDICATION  
24 x 3 - #6 INDICATES 24 LINES OF #6 BARS WITH 3 LENGTHS PER LINE.



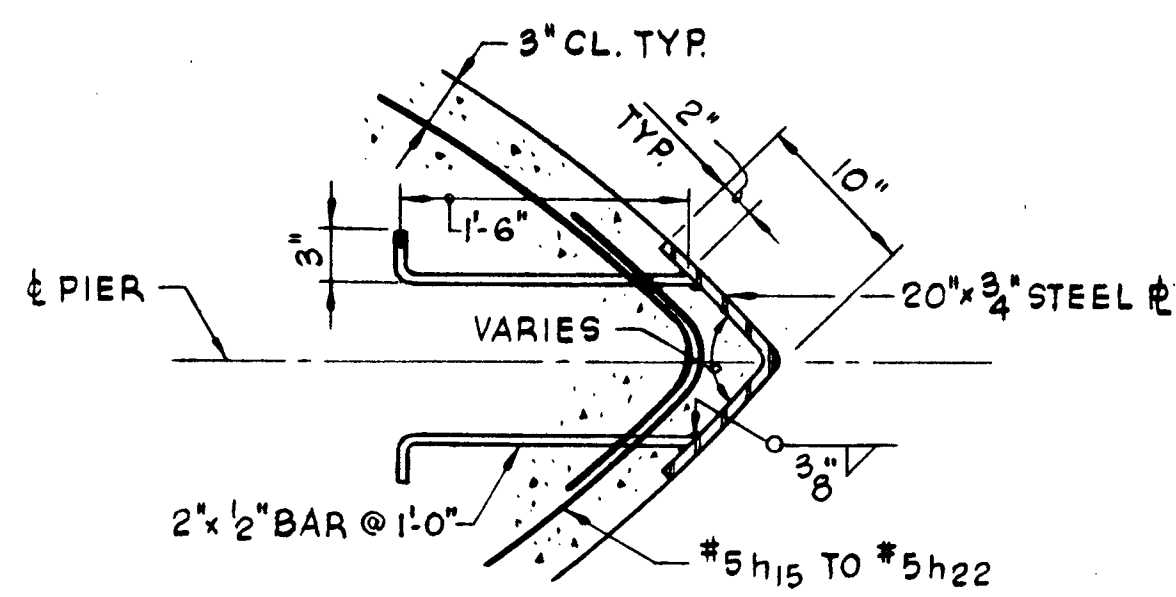
SECTION F-F  
SCALE: 3/16" = 1'-0"



SECTION H-H - FOOTING PLAN  
SCALE: 3/16" = 1'-0"



CONSTR. JT. DETAIL  
SCALE: 6" = 1'-0"



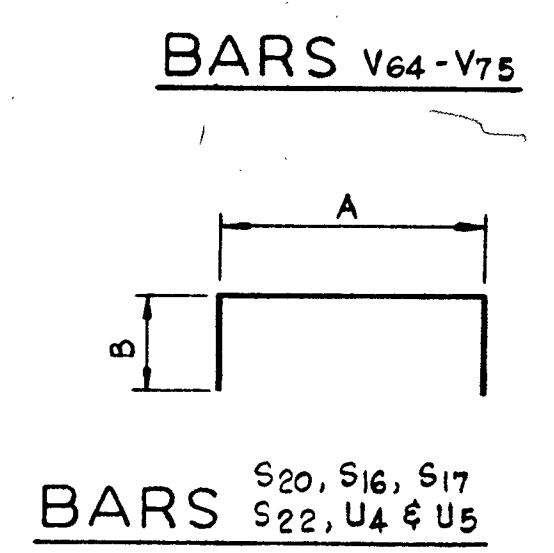
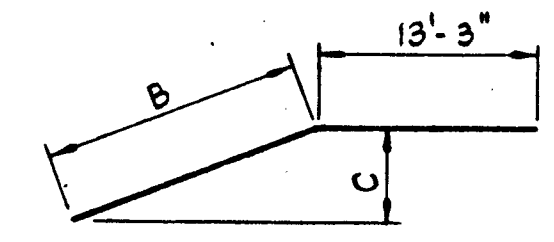
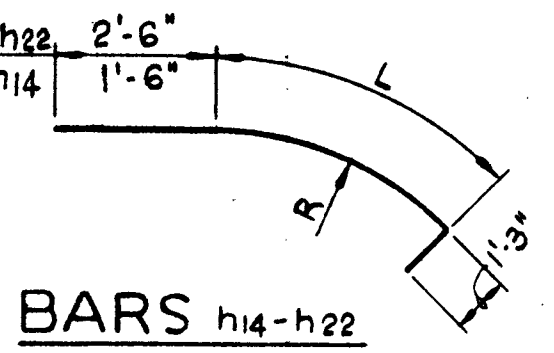
SECTION J-J  
SCALE: 1" = 1'-0"

BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	16	6	36'-0"	—
h10	6	9	26'-6"	—
h11	6	9	29'-0"	—
h12	9	9	30'-6"	—
h13	5	5	36'-0"	—
h14	5	5	11'-3"	—
h15	6	5	12'-5"	—
h16	6	5	12'-11"	—
h17	6	5	13'-6"	—
h18	6	5	14'-0"	—
h19	6	5	14'-7"	—
h20	6	5	15'-1"	—
h21	6	5	15'-7"	—
h22	5	5	16'-5"	—
n	104	11	9'-1"	—
n7	183	8	6'-7"	—
P	20	11	41'-6"	—
P1	16	11	21'-0"	—
P2	20	11	29'-0"	—
P3	8	6	16'-0"	—
P12	24	8	8'-3"	—
P5	16	11	15'-0"	—
S20	22	5	7'-8"	—
S15	148	5	14'-11"	—
S16	208	5	10'-9"	—
S17	304	5	12'-3"	—
S22	216	5	11'-4"	—
S21	222	5	18'-7"	—
t17	137	11	23'-6"	—
t18	96	5	23'-6"	—
U4	16	6	13'-8"	—
U5	39	5	11'-0"	—
V3	192	11	22'-6"	—
V64	1	8	32'-0"	—
V65	2	8	32'-6"	—
V66	2	8	32'-6"	—
V67	2	8	32'-6"	—
V68	2	8	32'-6"	—
V69	2	8	32'-6"	—
V70	2	8	32'-6"	—
V71	2	8	32'-6"	—
V72	2	8	32'-6"	—
V73	2	8	32'-6"	—
V74	2	8	32'-6"	—
V75	2	8	32'-6"	—
V77	160	8	32'-9"	—
V24	12	5	6'-3"	—
W6	72	6	33'-0"	—
W14	72	5	32'-9"	—
W15	23	9	10'-0"	—
W16	23	9	15'-0"	—

BAR	R	L	BAR	R	L
h14	8'-3"	8'-6"	h19	13'-2 1/2"	10'-10"
h15	8'-4 1/2"	8'-8"	h20	14'-7 1/2"	11'-4"
h16	9'-5 1/2"	9'-2"	h21	16'-1 1/2"	11'-10"
h17	10'-7 1/2"	9'-9"	h22	18'-6"	12'-8"
h18	11'-10 1/4"	10'-3"			

BAR	B	C	BAR	B	C
V64	22'-9"	4'-6"	V71	22'-3"	2'-0"
V65	22'-3"	11"	V72	21'-0"	2'-0"
V66	22'-3"	3"	V73	15'-0"	1'-6"
V67	22'-3"	5 1/2"	V74	9'-0"	1'-0"
V68	22'-3"	9"	V75	3'-9"	3"
V69	22'-3"	1'-1"			
V70	22'-3"	1'-6"			

BAR	A	B
S20	4'-8"	1'-6"
S16	3'-3"	3'-9"
S17	3'-3"	4'-6"
S22	2'-8"	4'-4"
U4	4'-8"	4'-6"
U5	8'-0"	1'-6"



NOTES  
WORK THIS SHEET WITH SH.38

REVISED  
5-18-71

BAR P12

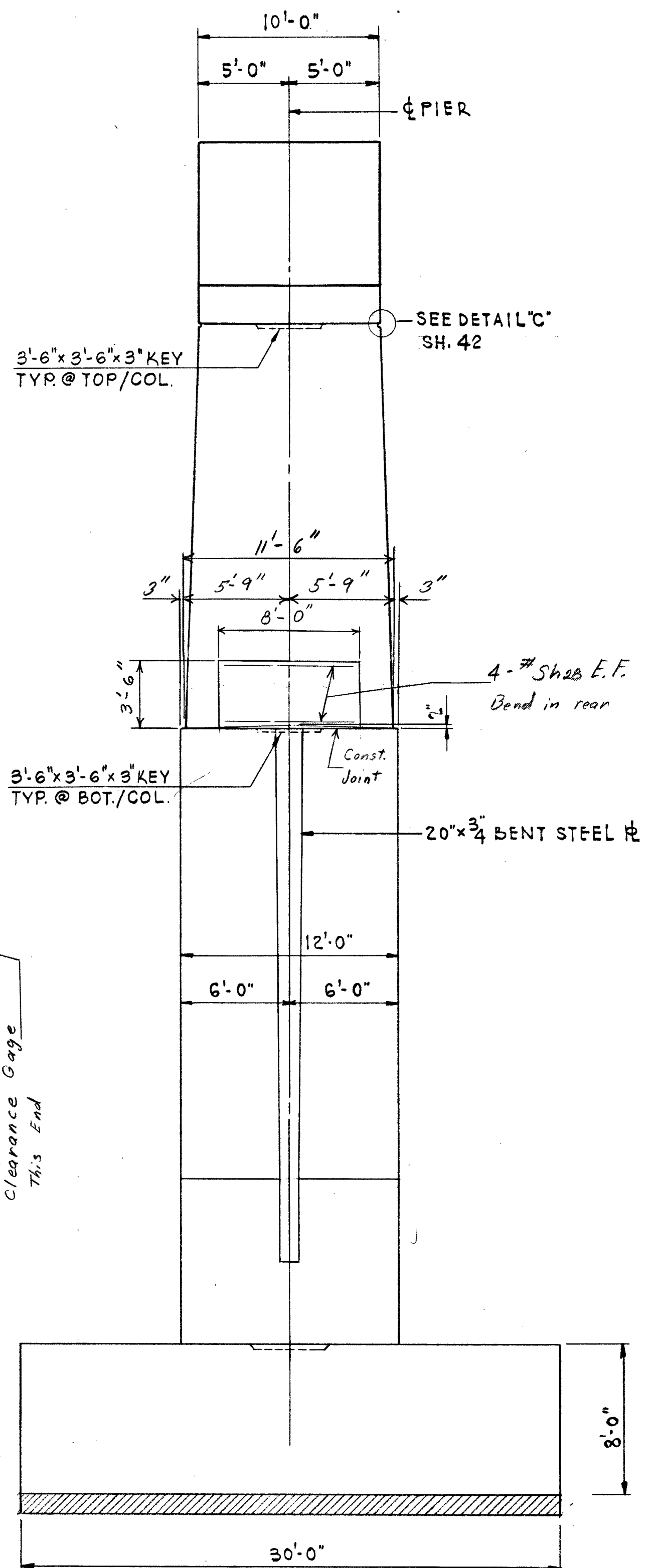
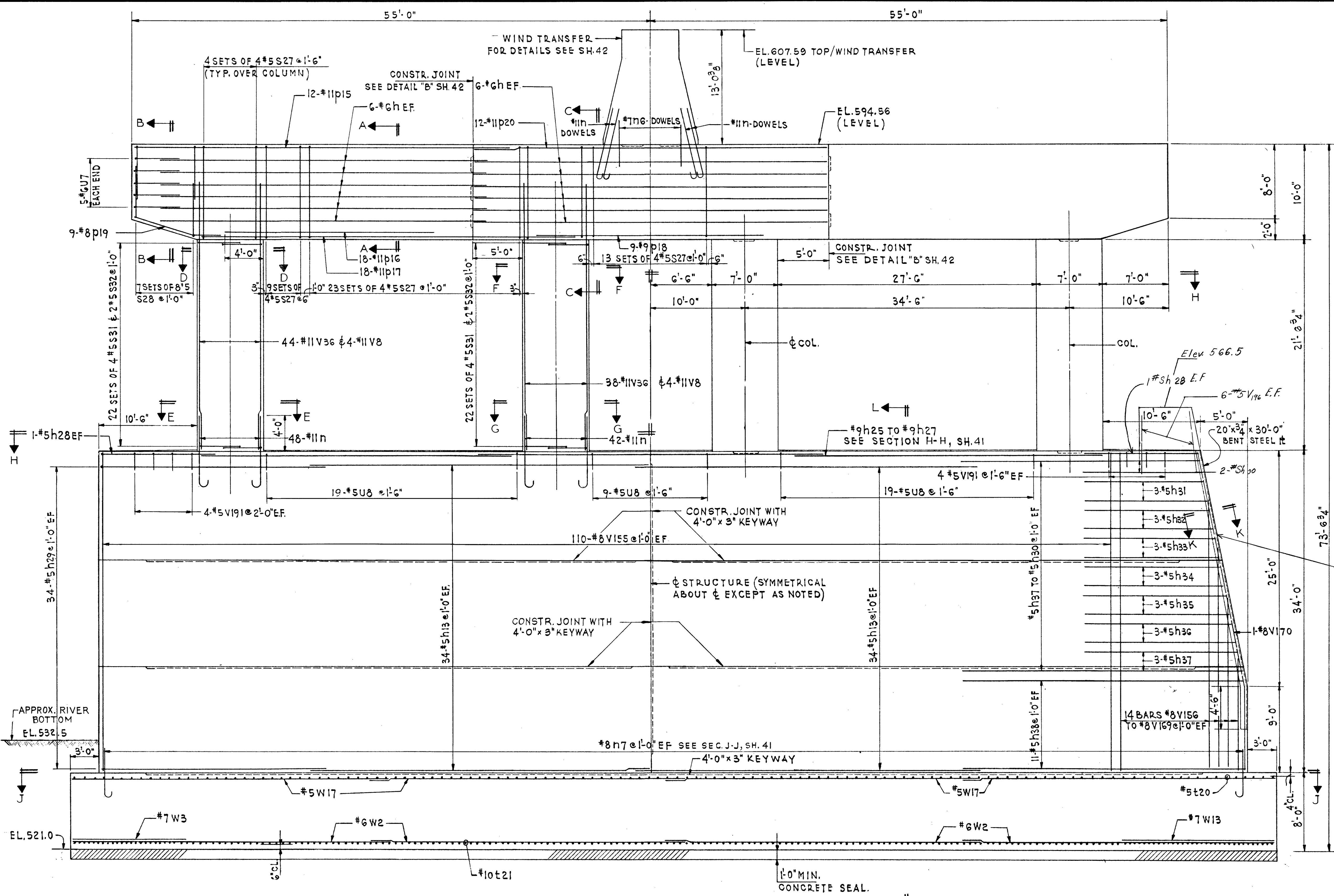
PIER 12  
CAP, WALL & FOOTING

F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY J. Y. HUANG  
DRAWN BY J. N. LESLIE  
CHECKED BY J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

(Rev 3-18-71 S.F.M.)

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	40
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		



ELEVATION  
SCALE: 3/16" = 1'-0"

END ELEVATION  
SCALE: 3/16" = 1'-0"

NOTES:  
 SPACE REINFORCEMENT IN CAP TO CLEAR,  
 ALL ANCHOR BOLTS WHICH SHALL BE  
 FURNISHED AND SET BY OTHERS.  
 ALL EDGES TO HAVE STANDARD 3/4 CHAMFERS  
 EXCEPT AS NOTED.  
 MINIMUM BAR LAP 24 DIA. UNLESS OTHERWISE NOTED.  
 MAXIMUM BEARING PRESSURE ON SHALE 12.89 KIPS  
 PER SQ. FT. FOR AASHTO. GROUP IX LOADING @ 150%  
 WORK THIS SHEET WITH SH. 41 & SH. 42

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
Cofferdam Excavation	CU. YD.	873
ROCK EXCAVATION for Structure	CU. YD.	997
CLASS "X" CONCRETE	CU. YD.	35063
REINFORCEMENT BARS	POUND	169,520
STRUCTURAL STEEL	POUND	1920
CONCRETE SEAL	SQ. YD.	427
COFFERDAM	EACH	1

Revised  
8-17-70

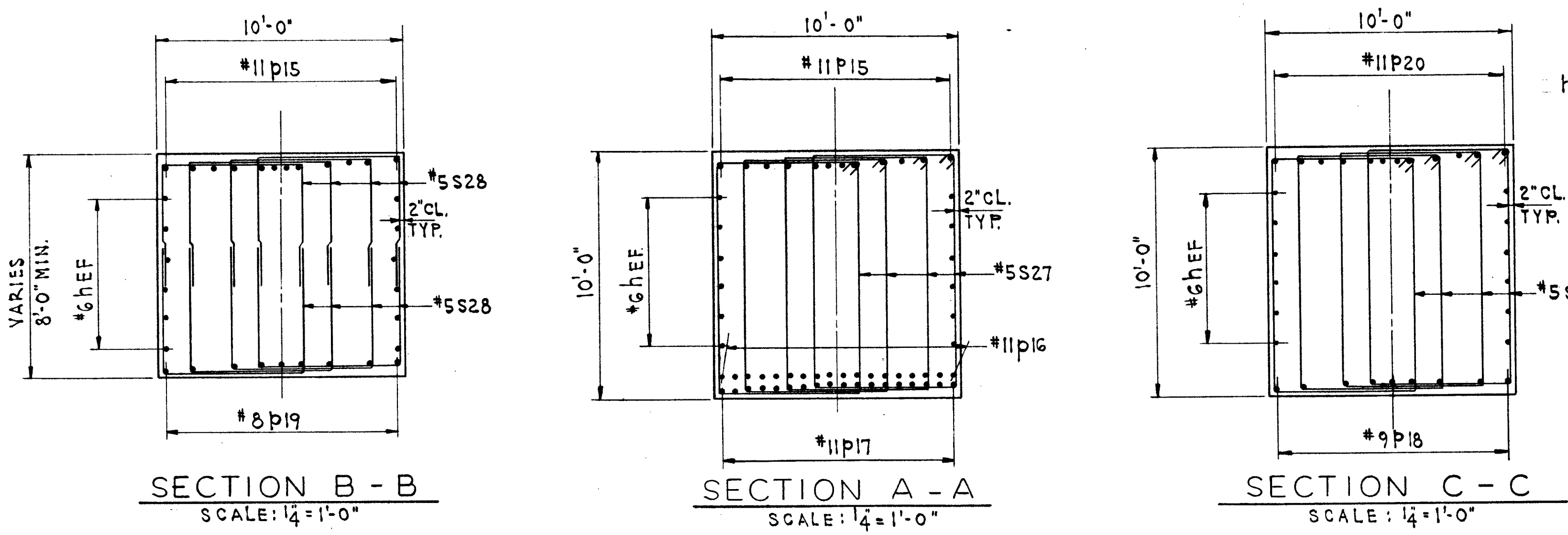
PIER 13  
 ELEVATIONS  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY J. Y. HUANG  
 DRAWN BY A. BUROKAS  
 CHECKED BY J. Y. HUANG  
 IN CHARGE J. Y. HUANG  
 APPROVED W. G. HORN

Rev. 6-16-70 Class X from 3500.3 to 3503.4 Cu. yds., Reint. from 169,520 to 169,760 lbs. S.M.



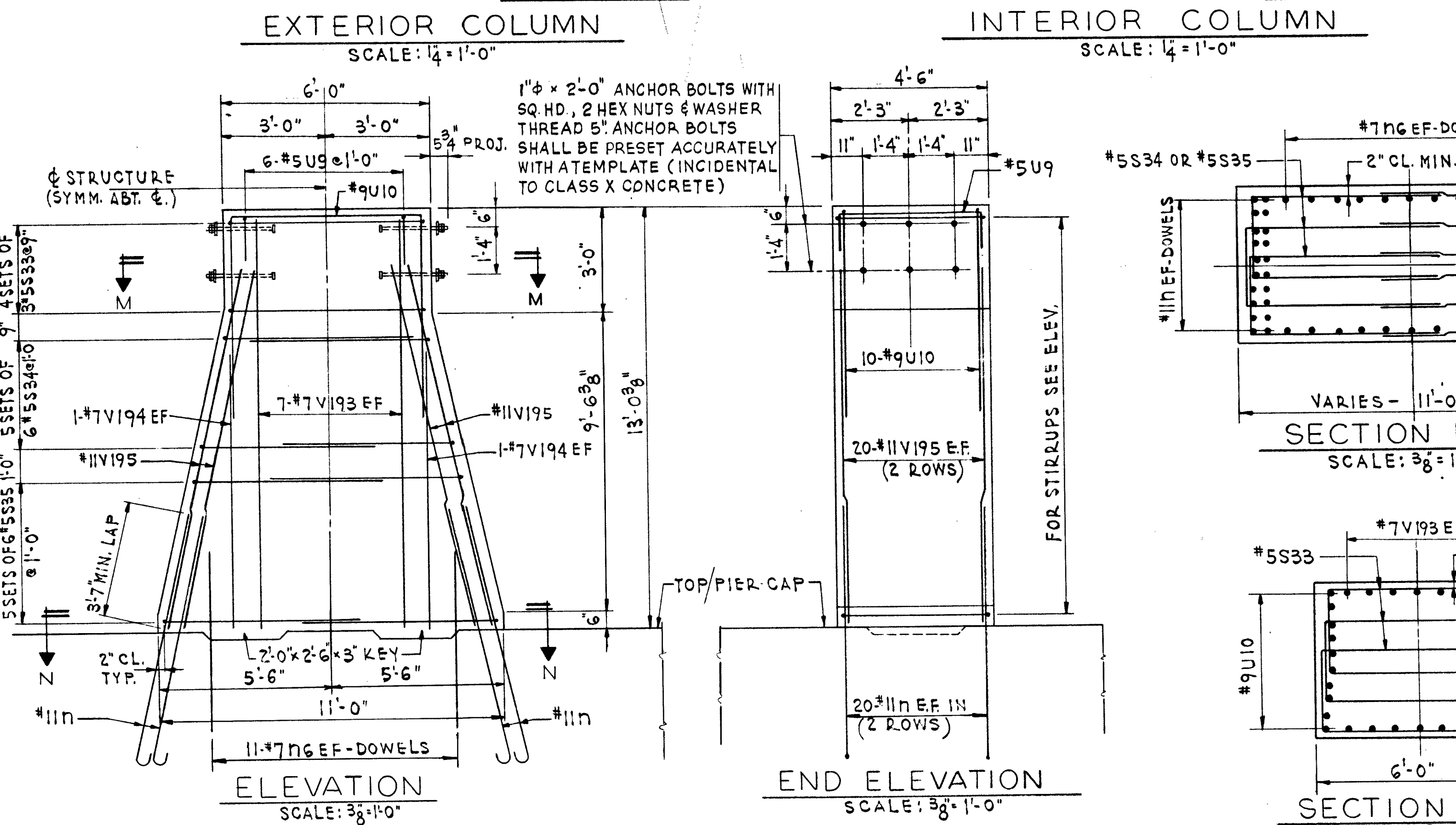
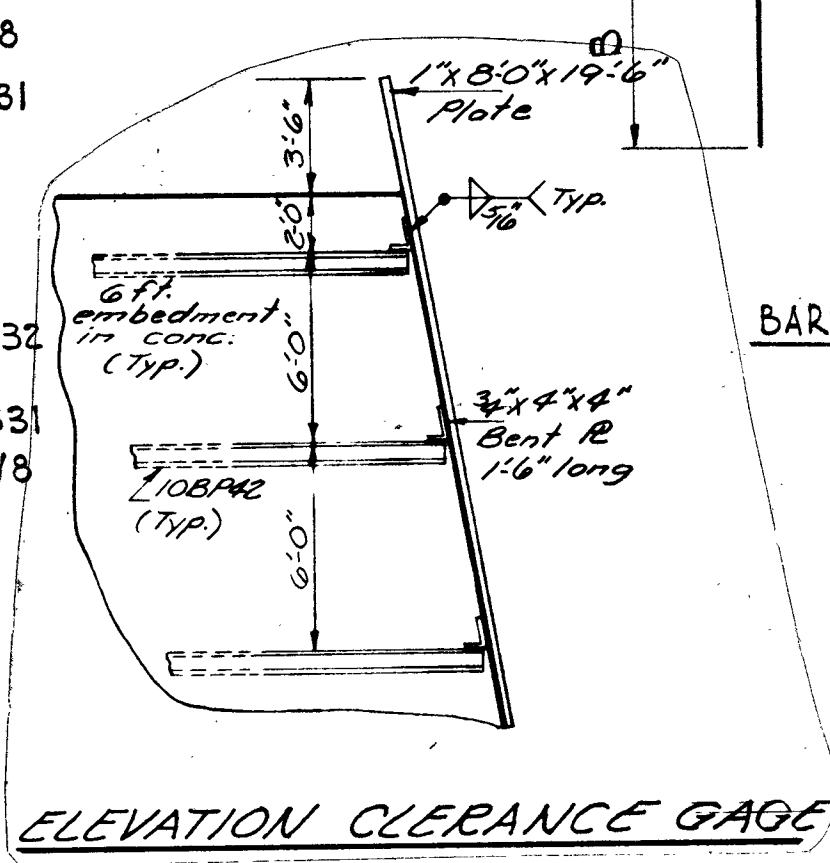
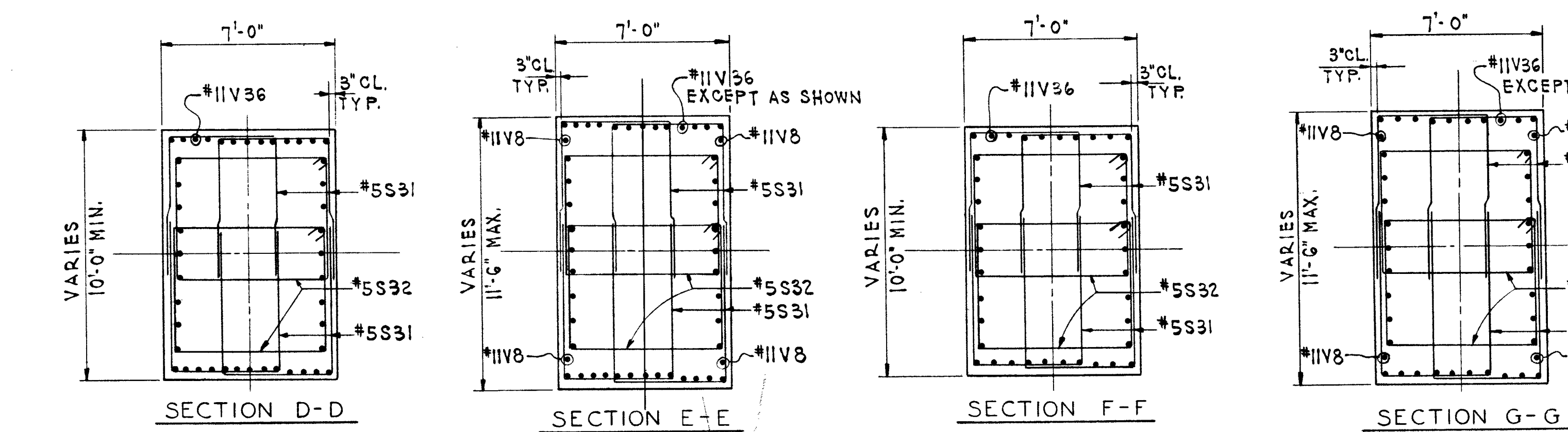




BAR	R	L	BAR	R	L
h29	11'-9"	12'-3"	h34	16'-5 1/2"	14'-5"
h30	11'-10"	12'-4"	h35	17'-9 3/4"	14'-11"
h31	12'-11"	12'-10"	h36	19'-1"	15'-6"
h32	14'-0 1/2"	13'-4"	h37	20'-7 3/8"	16'-3"
h33	15'-3"	13'-10"	h38	22'-6"	16'-8"
			h28	11'-9"	12'-3"

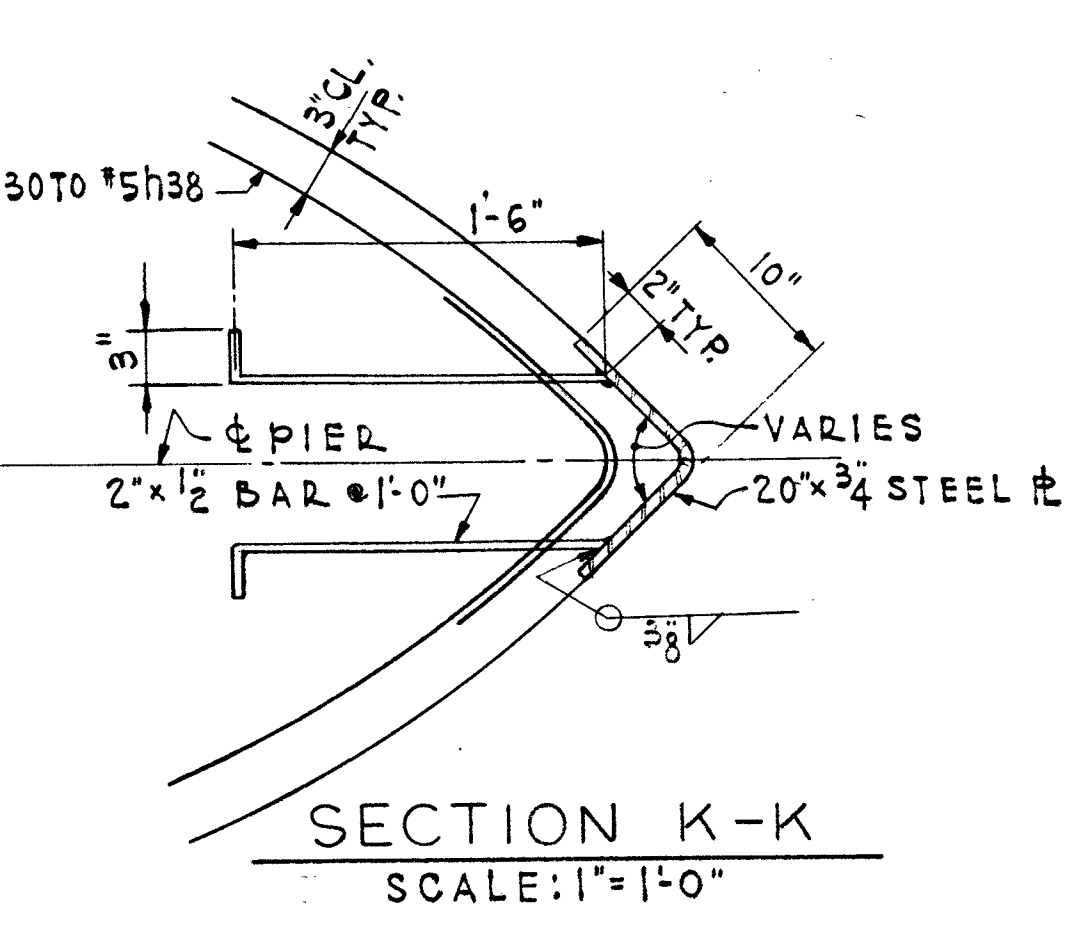
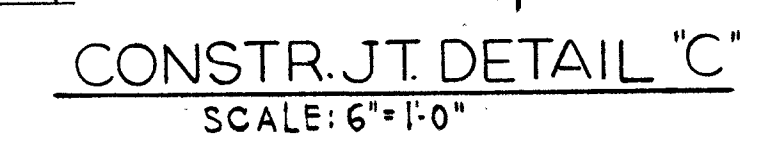
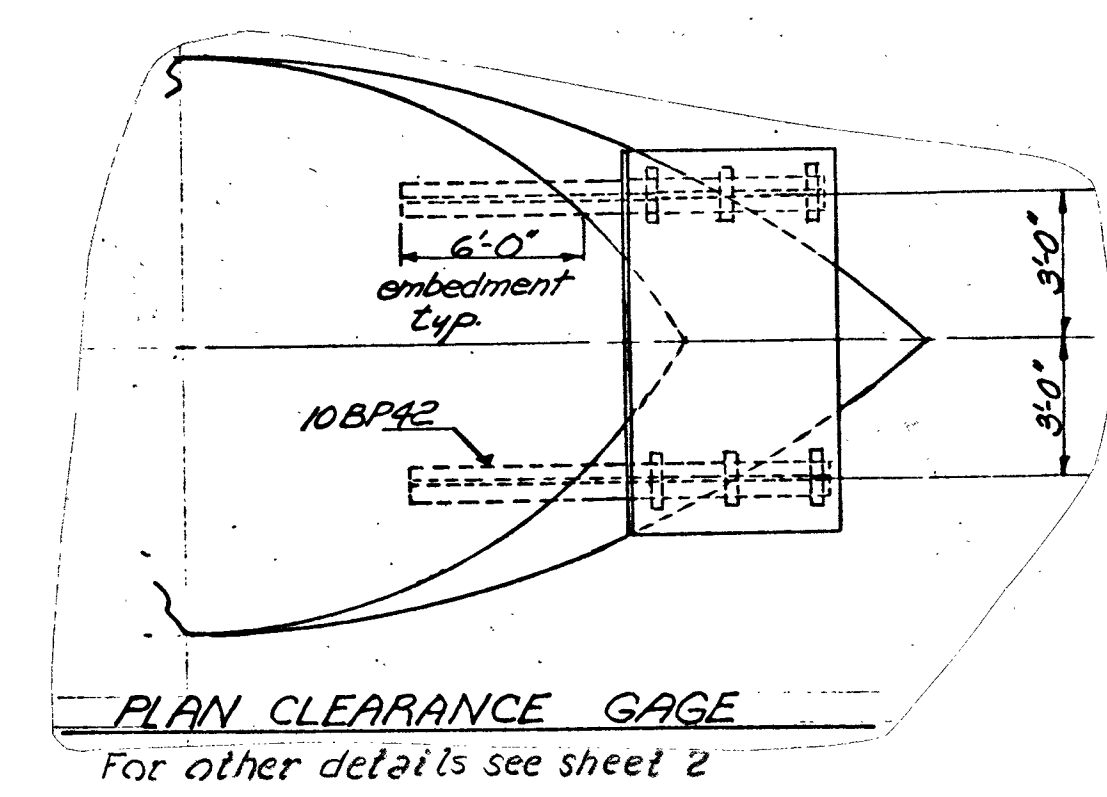
BAR	B	C	BAR	B	C
V156	24'-9"	12'	V163	24'-9"	1'-10"
V157	24'-9"	3'	V164	24'-9"	2'-2"
V158	24'-9"	5'	V165	24'-9"	2'-7"
V159	24'-9"	7'	V166	23'-9"	2'-9"
V160	24'-9"	10'	V167	18'-0"	2'-2"
V161	24'-9"	1'-1"	V168	13'-6"	1'-6"
V162	24'-9"	1'-5"	V169	7'-0"	9"
			V170	25'-3"	4'-11"

BAR	A	B
S28	5'-10"	5'-6"
S31	4'-6"	6'-3"
S34	2'-6"	5'-6"
S35	2'-6"	6'-3"



BAR	A	B
U7	9'-7"	4'-9"
U8	11'-5"	1'-6"
U9	4'-1"	1'-6"
U10	5'-6"	6'-0"

BAR S28, S31, S34, S35  
U7, U8, U9 & U10



BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	24	#6	33'-6"	
h13	136	#5	36'-0"	
h25	6	#9	34'-0"	
h26	12	#9	37'-0"	
h27	15	#9	40'-9"	
h28	2	#5	15'-6"	
h29	68	#5	28'-6"	
h30	4	#5	28'-7"	
h31	6	#5	29'-1"	
h32	6	#5	29'-7"	
h33	6	#5	30'-1"	
h34	6	#5	30'-8"	
h35	6	#5	31'-2"	
h36	6	#5	31'-9"	
h37	6	#5	32'-6"	
h38	22	#5	32'-11"	
n	220	#11	9'-1"	
n6	22	#7	5'-10"	
n7	249	#8	6'-7"	
p15	24	#11	36'-0"	
p16	36	#11	22'-0"	
p17	36	#11	39'-6"	
p18	9	#9	23'-0"	
p19	18	#8	9'-8"	
p20	12	#11	44'-6"	
h39	12	#6	41'-0"	
s27	372	#5	31'-11"	
s28	112	#5	16'-10"	
s31	352	#5	17'-0"	
s32	176	#5	23'-3"	
s33	12	#5	17'-3"	
s34	30	#5	13'-6"	
s35	30	#5	15'-0"	
t20	128	#5	29'-6"	
t21	205	#10	29'-6"	
u7	10	#6	19'-1"	
u8	47	#5	14'-5"	
u9	6	#5	7'-1"	
u10	10	#9	17'-8"	
v196	18	#5	6'-0"	
v36	164	#11	13'-3"	
v155	220	#8	33'-9"	
v156	2	#8	33'-9"	
v157	2	#8	33'-9"	
v158	2	#8	33'-9"	
v159	2	#8	33'-9"	
v160	2	#8	33'-9"	
v161	2	#8	33'-9"	
v162	2	#8	33'-9"	
v163	2	#8	33'-9"	
v164	2	#8	33'-9"	
v165	2	#8	33'-9"	
v166	2	#8	32'-9"	
v167	2	#8	27'-0"	
v168	2	#8	22'-6"	
v169	2	#8	16'-0"	
v170	1	#8	34'-3"	
v191	16	#5	8'-0"	
v193	14	#7	12'-9"	
v194	4	#7	9'-0"	
v195	40	#11	11'-3"	
w17	120	#5	33'-0"	
w3	29	#7	11'-6"	
w13	29	#7	15'-0"	
w2	120	#6	33'-6"	

PIER 13  
MISCELLANEOUS DETAILS  
F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

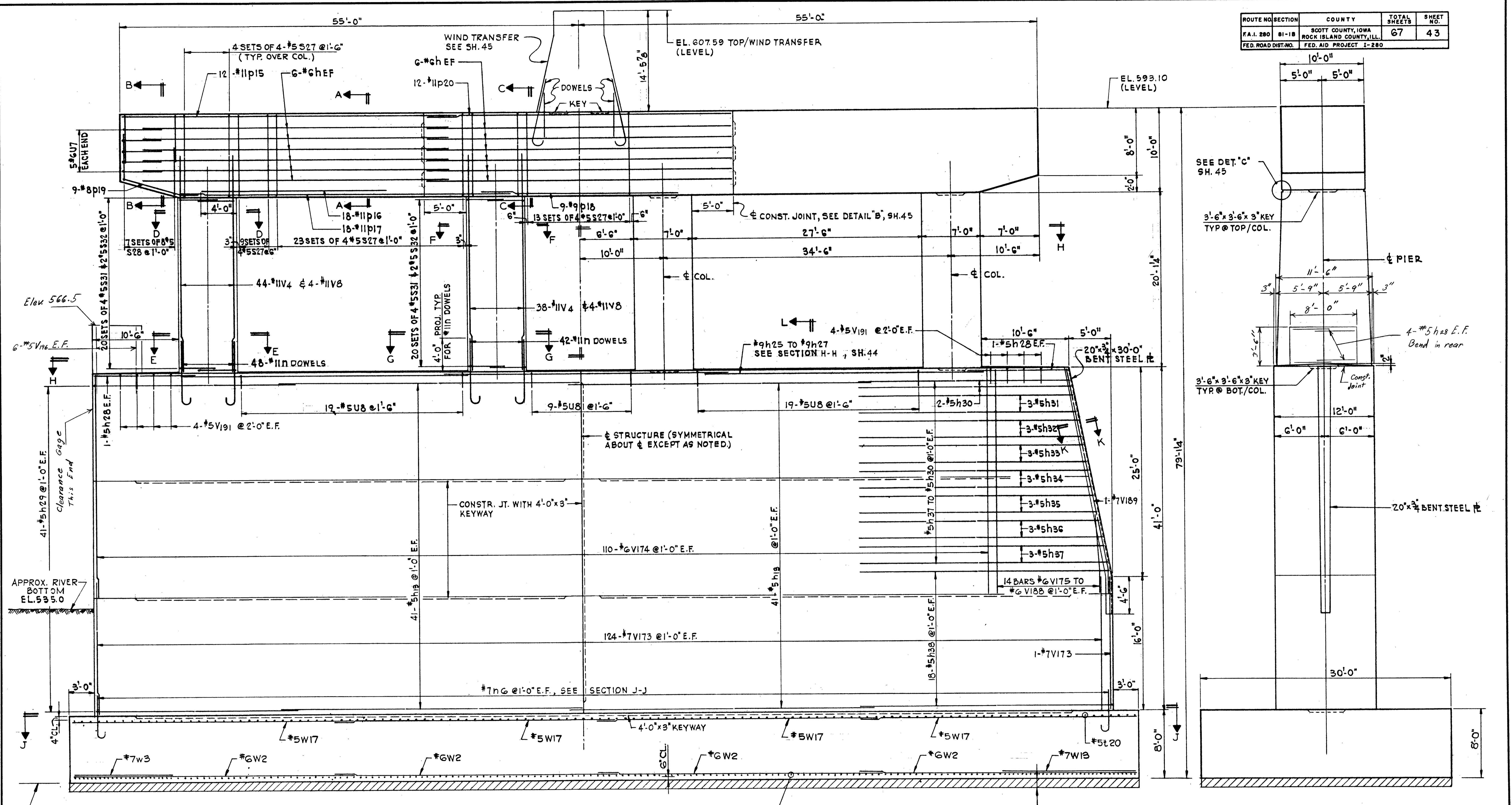
DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY J.Y. HUANG  
DRAWN BY A. BUROKAS  
CHECKED BY J.Y. HUANG  
IN CHARGE J.Y. HUANG  
APPROVED W.G. HORN

WIND TRANSFER DETAILS

Revised  
18-17-70



ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	43
FED. ROAD DIST. NO.		FED. AID PROJECT 1-280		



BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
Cofferdam Excavation	CU. YD.	2576
ROCK EXCAVATION FOR STRUCTURE	CU. YD.	1097
CLASS X CONCRETE	CU. YD.	3841.8
REINFORCEMENT BARS	POUND	161,720
STRUCTURAL STEEL	POUND	1920
CONCRETE SEAL	SQ. YD.	427
COFFERDAM	EACH	1

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

NOTES

1. WORK THIS SHEET WITH SH.44 & SH.45
2. SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED & SET BY OTHERS.
3. ALL EDGES TO HAVE STANDARD 3/4" CHAMFER EXCEPT AS NOTED.
4. ALL BAR DIMENSIONS ARE OUT TO OUT.
5. MIN. BAR LAP 24 DIA. UNLESS OTHERWISE NOTED.
6. MAX. BEARING PRESSURE ON SHALE 12.84 KIPS/SQ. FT., FOR A.A.S.H.O. GROUP IX LOADING @ 150%

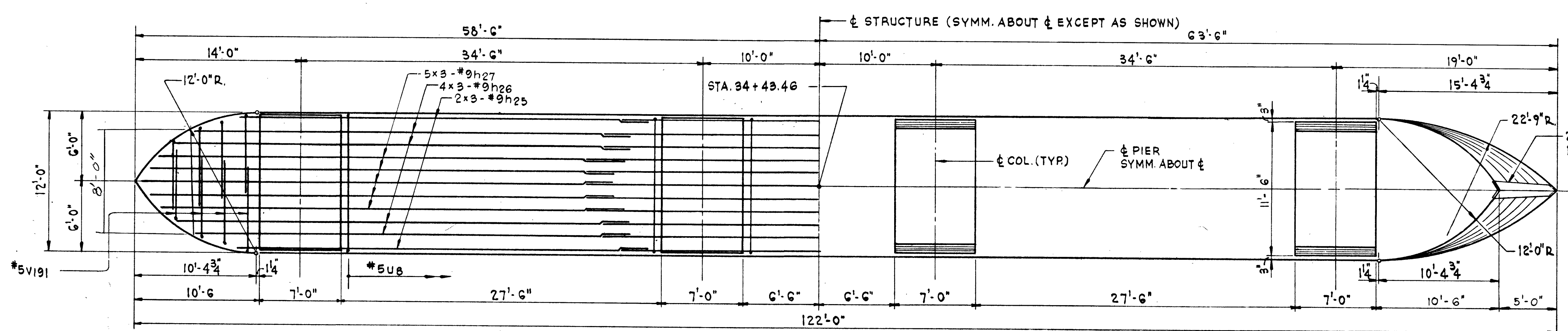
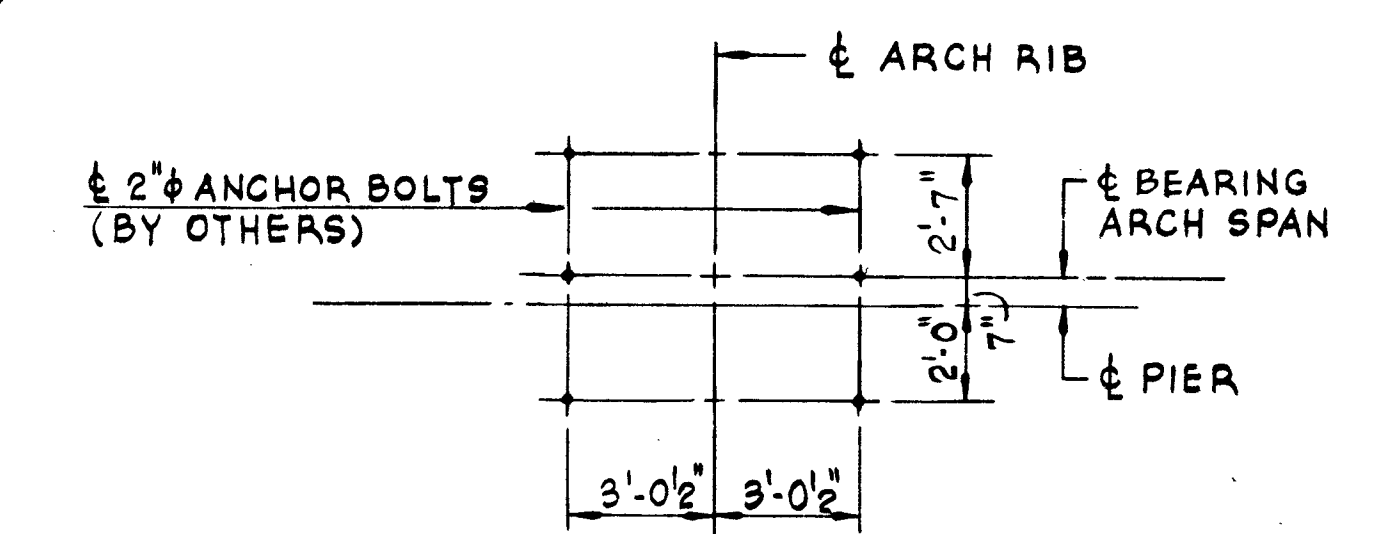
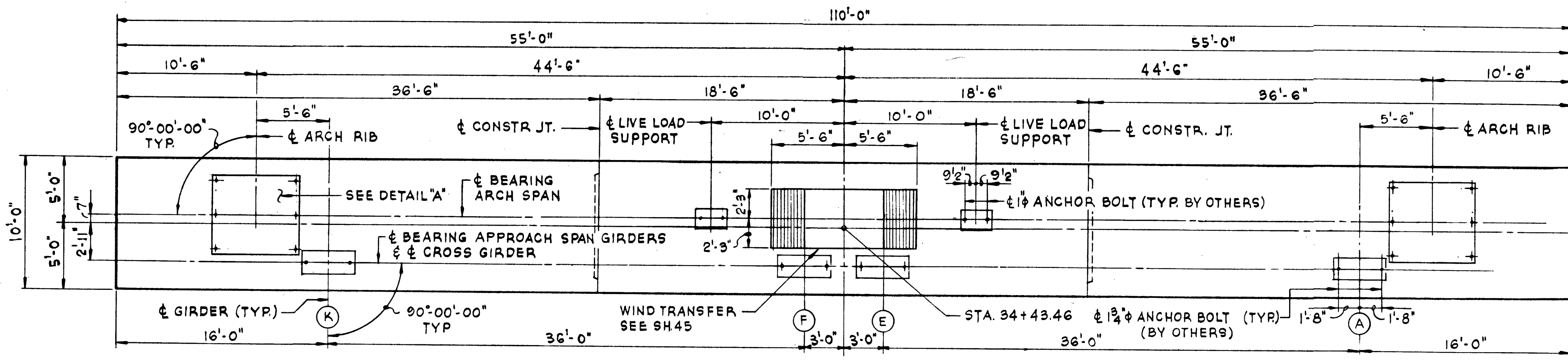
Revised  
8-17-70

END ELEVATION  
SCALE: 3/16"=1'-0"  
PIER 14  
ELEVATIONS  
F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

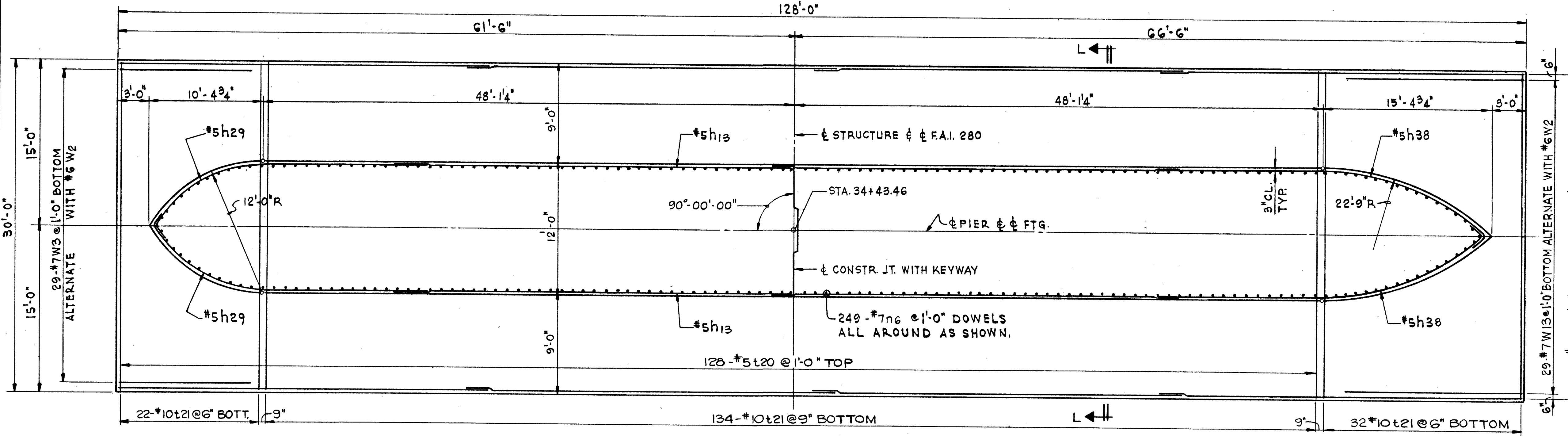
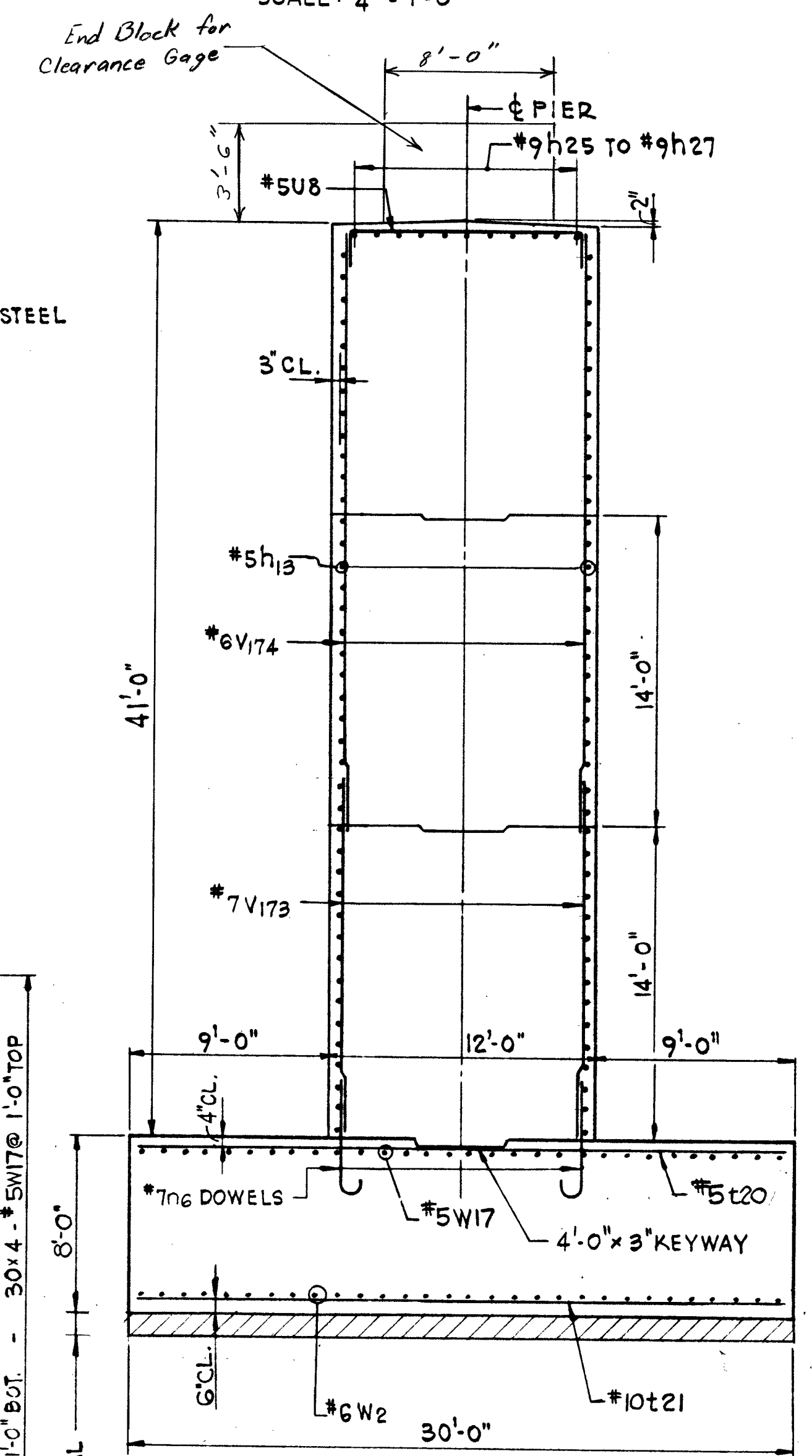
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY A. BUROKAS  
CHECKED G. G. QUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

Rev. 6-16-70 Class X from 3841.8 to 3844.9 Cu. yds., Reinf. from 161,720 lbs. to 161,960 lbs. S.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	44
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



KEY TO BAR INDICATION  
5x3-#9 INDICATES 5 LINES OF #9 BARS  
WITH 3 LENGTHS PER LINE



**PIER 14**  
CAP, WALL & FOOTING  
F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

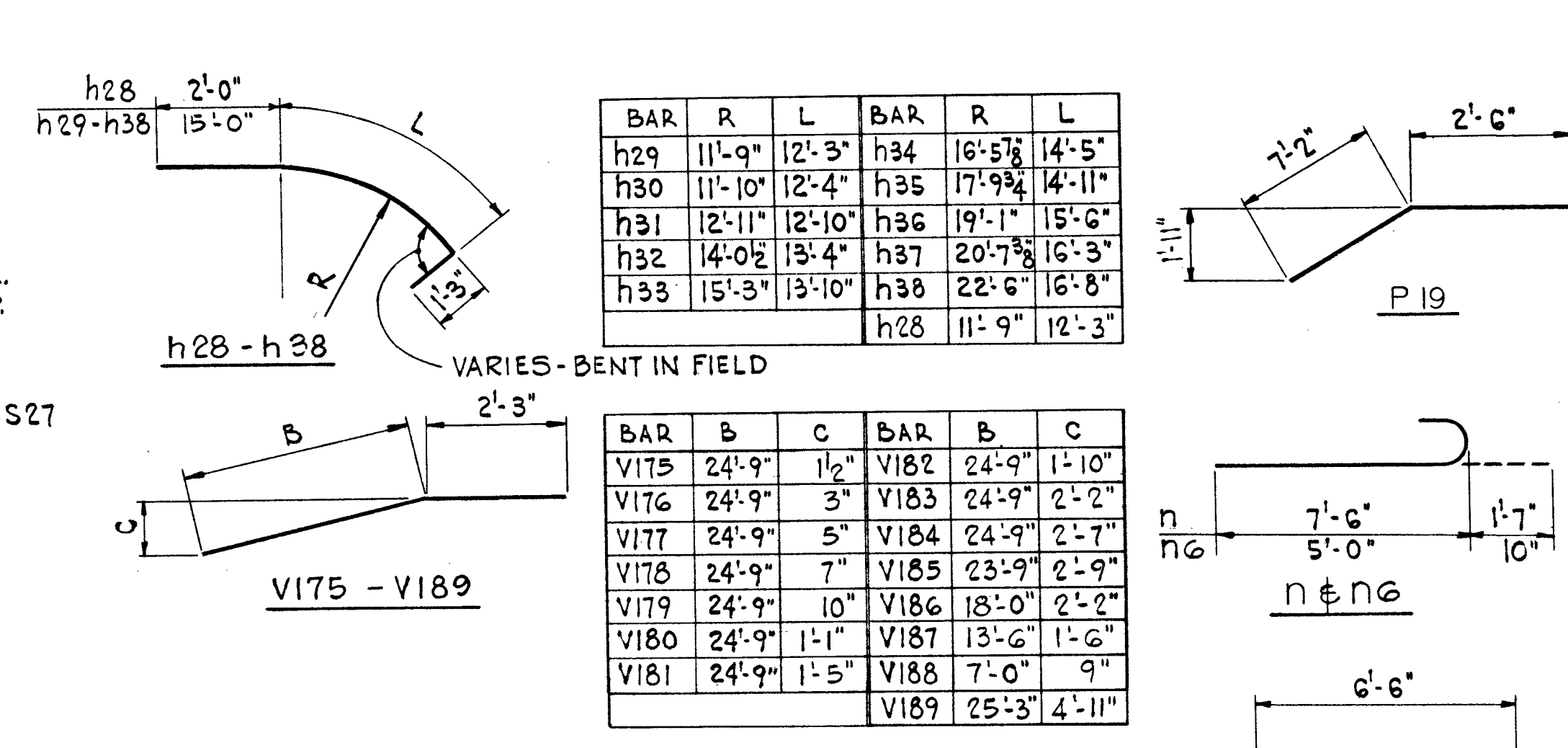
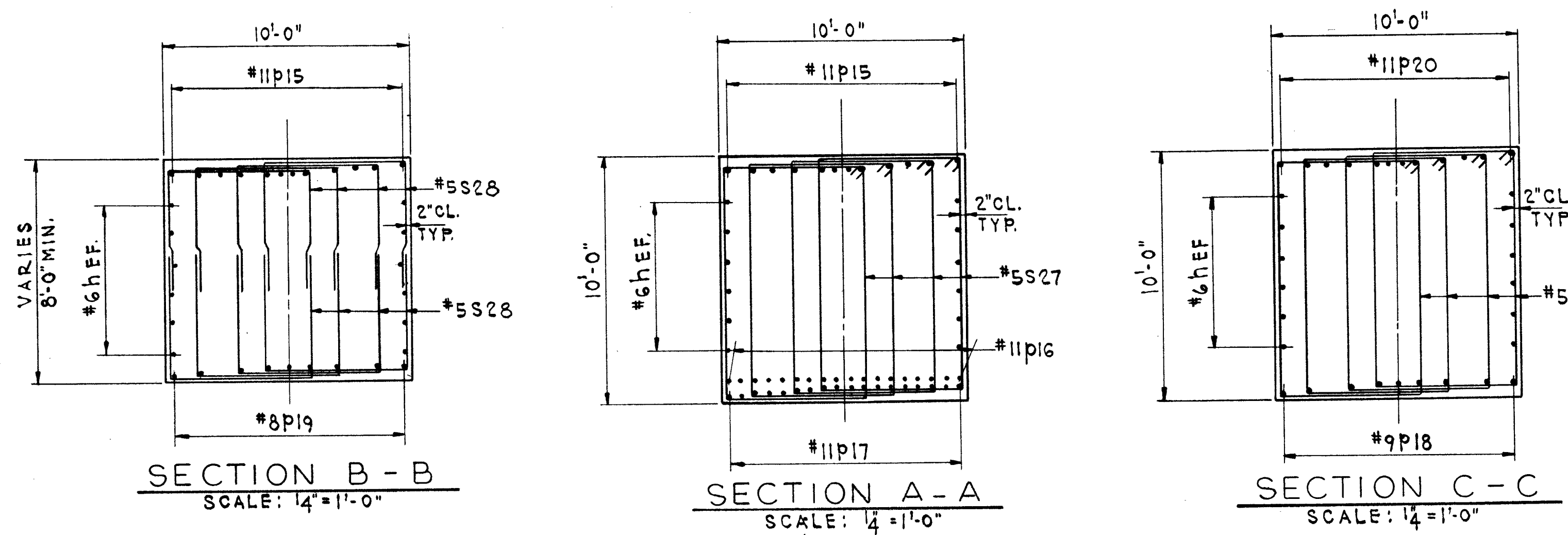
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY A. BUROKAS  
CHECKED J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

NOTE:  
WORK THIS SHEET WITH SH. 43 & SH. 45

Revised  
8-17-70



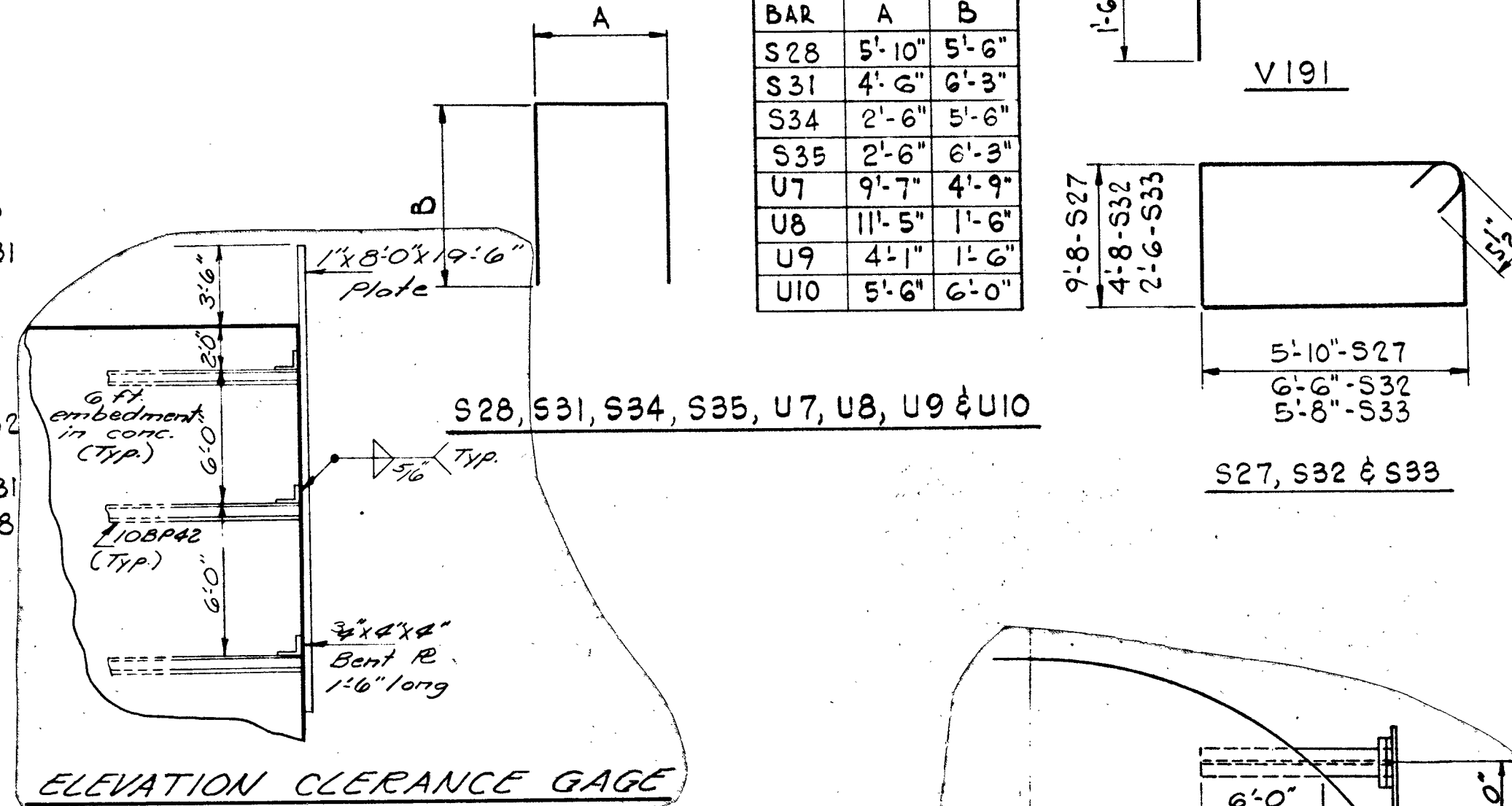
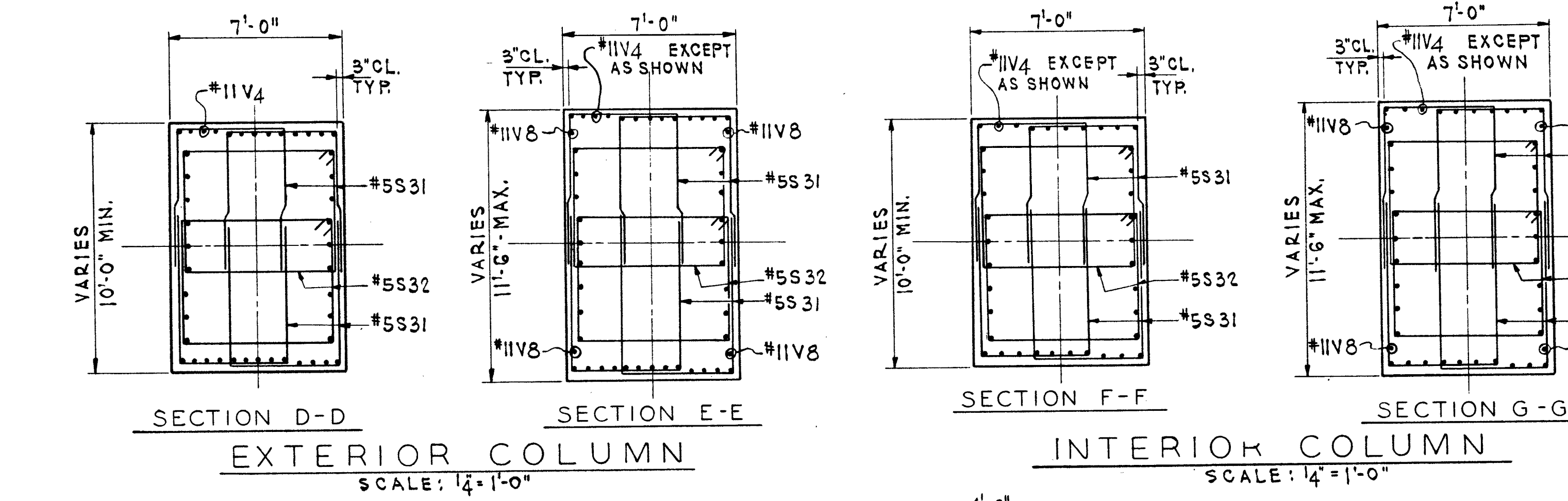
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	45
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



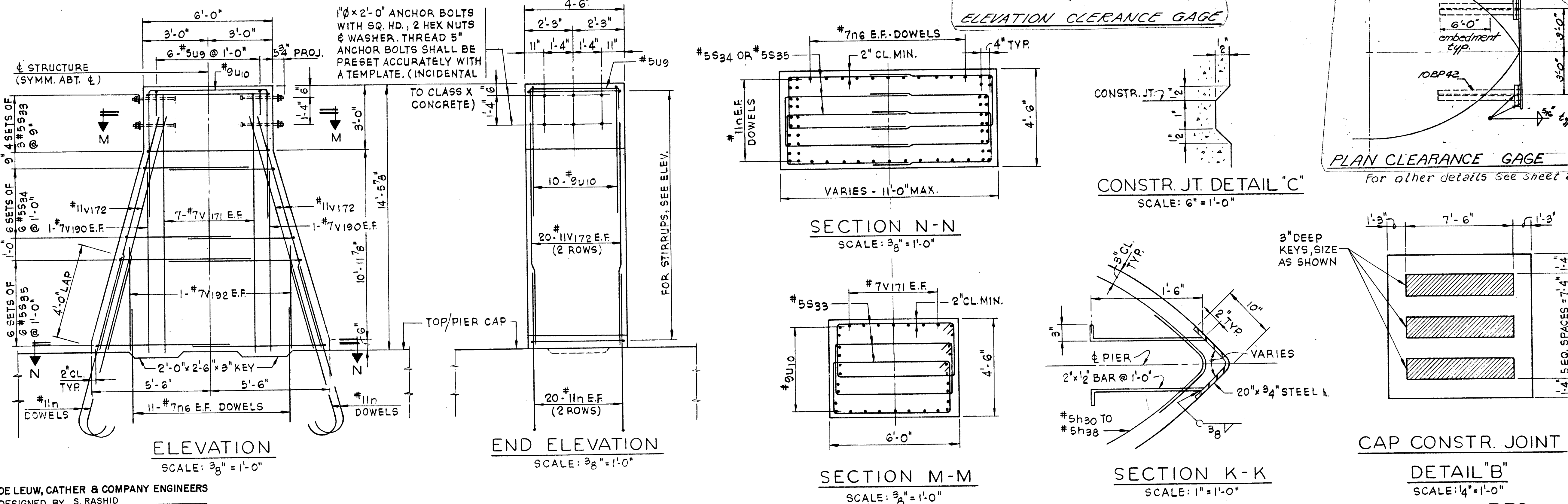
BAR	R	L	BAR	R	L
h29	11'-9"	12'-3"	h34	16'-5 1/2"	14'-5"
h30	11'-10"	12'-4"	h35	17'-9 1/2"	14'-11"
h31	12'-11"	12'-10"	h36	19'-1"	15'-6"
h32	14'-0 1/2"	13'-4"	h37	20'-7 3/8"	16'-3"
h33	15'-3"	13'-10"	h38	22'-6"	16'-8"
			h28	11'-9"	12'-3"

BAR	B	C	BAR	B	C
V175	24'-9"	1 1/2"	V182	24'-9"	1'-10"
V176	24'-9"	3"	V183	24'-9"	2'-2"
V177	24'-9"	5"	V184	24'-9"	2'-7"
V178	24'-9"	7"	V185	23'-9"	2'-9"
V179	24'-9"	10"	V186	18'-0"	2'-2"
V180	24'-9"	1'-1"	V187	13'-6"	1'-6"
V181	24'-9"	1'-5"	V188	7'-0"	9"
			V189	25'-3"	4'-11"

BAR	A	B
S28	5'-10"	5'-6"
S31	4'-6"	6'-3"
S34	2'-6"	5'-6"
S35	2'-6"	6'-3"
U7	9'-7"	4'-9"
U8	11'-5"	1'-6"
U9	4'-1"	1'-6"
U10	5'-6"	6'-0"



BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
V196	18	#5	6'-0"	
h	24	#6	33'-6"	
h1a	164	#5	36'-0"	
h25	6	#9	34'-0"	
h26	12	#9	37'-0"	
h27	15	#9	40'-9"	
h28	4	#5	15'-6"	
h29	82	#5	28'-6"	
h30	4	#5	28'-7"	
h31	6	#5	29'-1"	
h32	6	#5	29'-7"	
h33	6	#5	30'-1"	
h34	6	#5	30'-8"	
h35	6	#5	31'-2"	
h36	6	#5	31'-9"	
h37	6	#5	32'-6"	
h38	36	#5	32'-11"	
n	220	#11	9'-1"	
n6	271	#7	5'-10"	
P15	24	#11	36'-0"	
P16	36	#11	22'-0"	
P17	36	#11	39'-6"	
P18	9	#9	23'-0"	
P19	18	#8	9'-8"	
P20	12	#11	44'-6"	
S27	372	#5	31'-11"	
S28	112	#5	16'-10"	
S31	320	#5	17'-0"	
S32	160	#5	23'-3"	
S33	12	#5	17'-3"	
S34	36	#5	13'-6"	
S35	36	#5	15'-0"	
t20	128	#5	29'-6"	
t21	188	#10	29'-6"	
U7	10	#6	19'-11"	
U8	47	#6	14'-5"	
U9	6	#5	7'-1"	
U10	10	#9	17'-8"	
V190	4	#7	10'-6"	
V192	4	#7	4'-6"	
V8	16	#11	13'-3"	
V4	164	#11	24'-0"	
V173	249	#7	16'-0"	
V174	220	#6	27'-0"	
V175	2	#6	27'-0"	
V176	2	#6	27'-0"	
V177	2	#6	27'-0"	
V178	2	#6	27'-0"	
V179	2	#6	27'-0"	
V180	2	#6	27'-0"	
V181	2	#6	27'-0"	
V182	2	#6	27'-0"	
V183	2	#6	27'-0"	
V184	2	#6	27'-0"	
V185	2	#6	26'-0"	
V186	2	#6	20'-3"	
V187	2	#6	15'-9"	
V188	2	#6	9'-3"	
V189	1	#6	27'-6"	
V171	14	#7	14'-5"	
V172	40	#11	13'-0"	
V191	16	#5	8'-0"	
W2	120	#6	33'-6"	
W3	29	#7	11'-6"	
W13	29	#7	15'-0"	
W17	120	#5	33'-0"	



DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY S. RASHID  
 DRAWN BY A. BURKAS  
 CHECKED J. Y. HUANG  
 IN CHARGE J. Y. HUANG  
 APPROVED W. G. HORN

PIER 14  
 MISCELLANEOUS DETAILS  
 F.A.I. ROUTE 280 SECTION 81-18  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

Revised  
 8-17-70



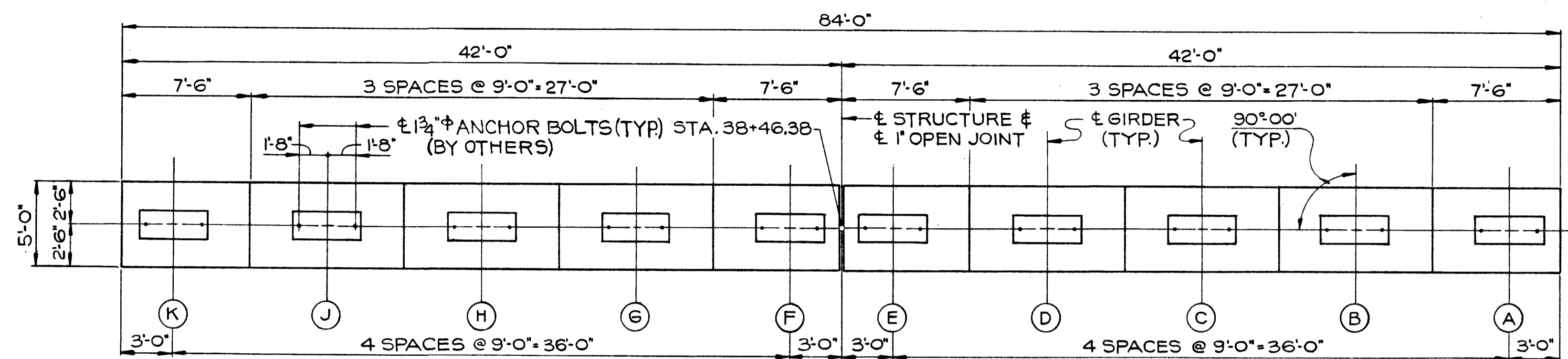




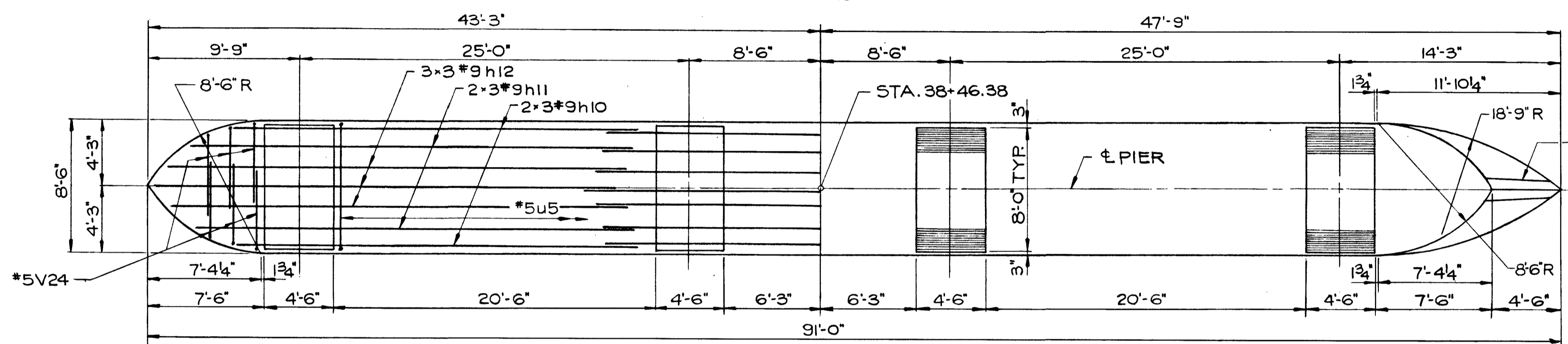




ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	49
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		

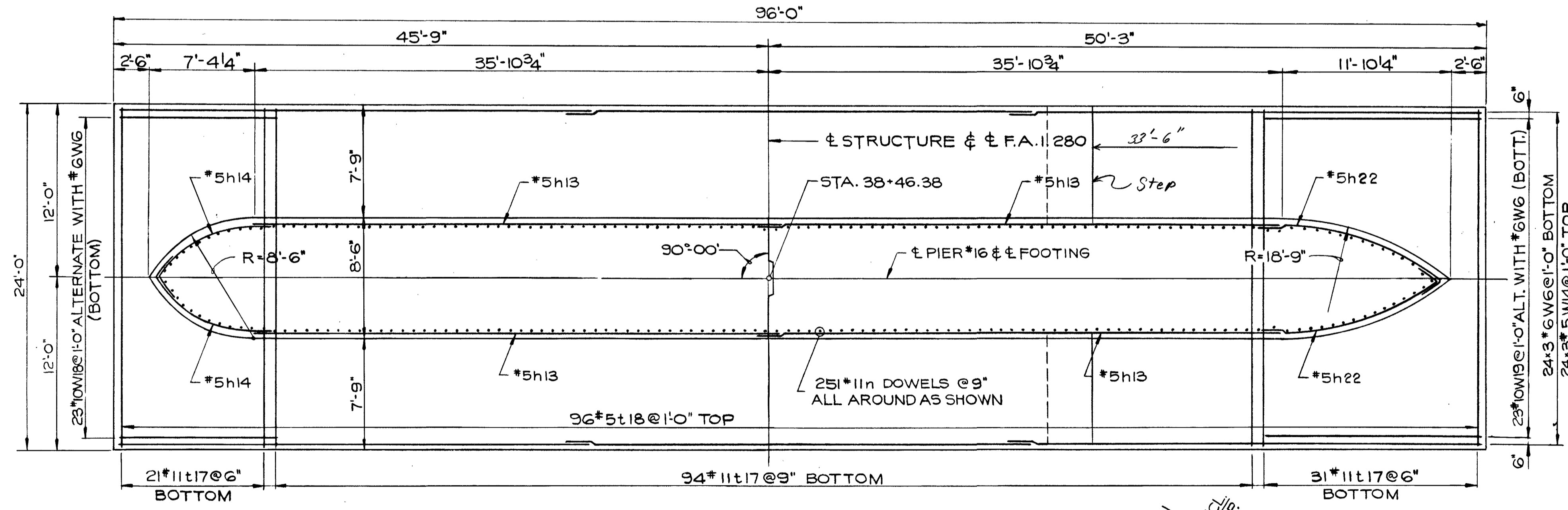


PLAN  
SCALE: 3/16" = 1'-0"



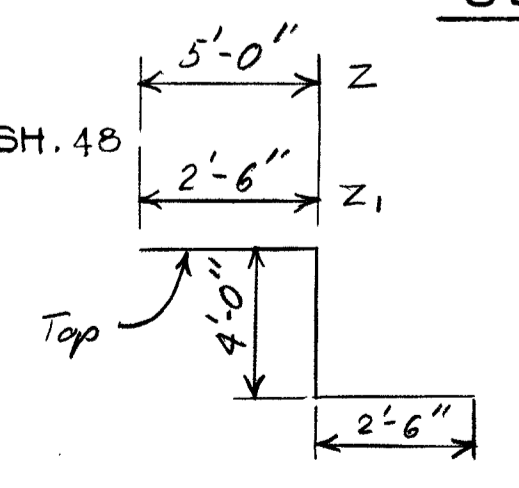
SECTION G-G  
SCALE: 3/16" = 1'-0"

KEY TO BAR INDICATION:  
24\*3\*6- INDICATES 24 LINES OF  
\*6 BARS WITH 3 LENGTHS PER LINE.

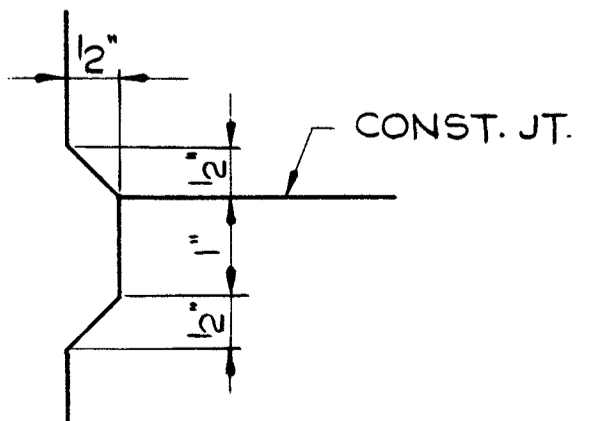


SECTION H-H-FOOTING PLAN  
SCALE: 3/16" = 1'-0"

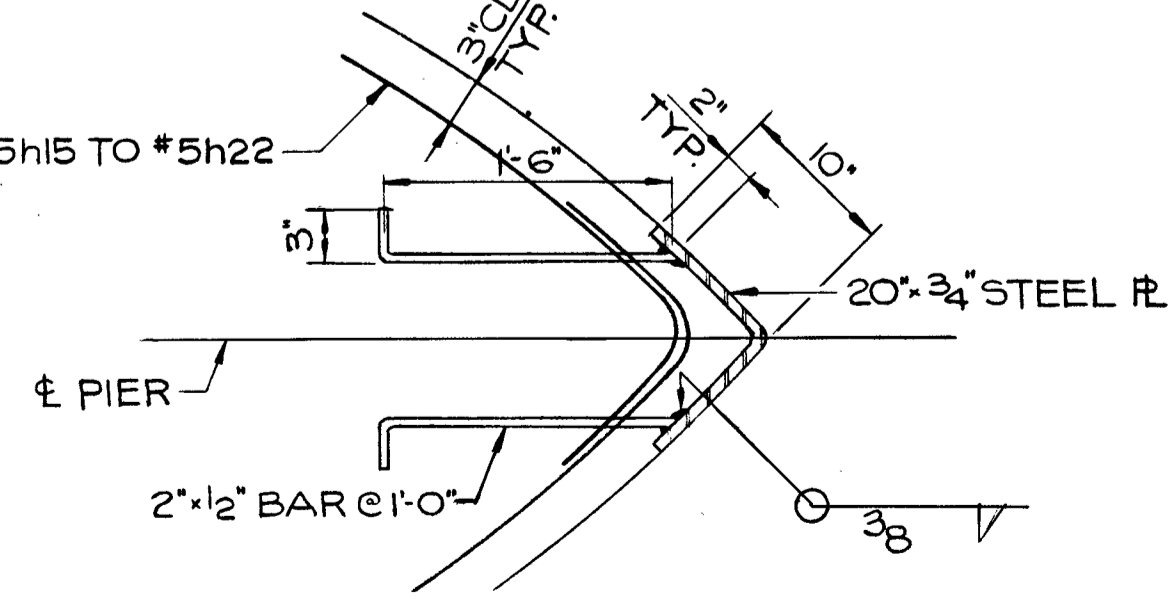
NOTE:  
WORK THIS SHEET WITH SH. 48



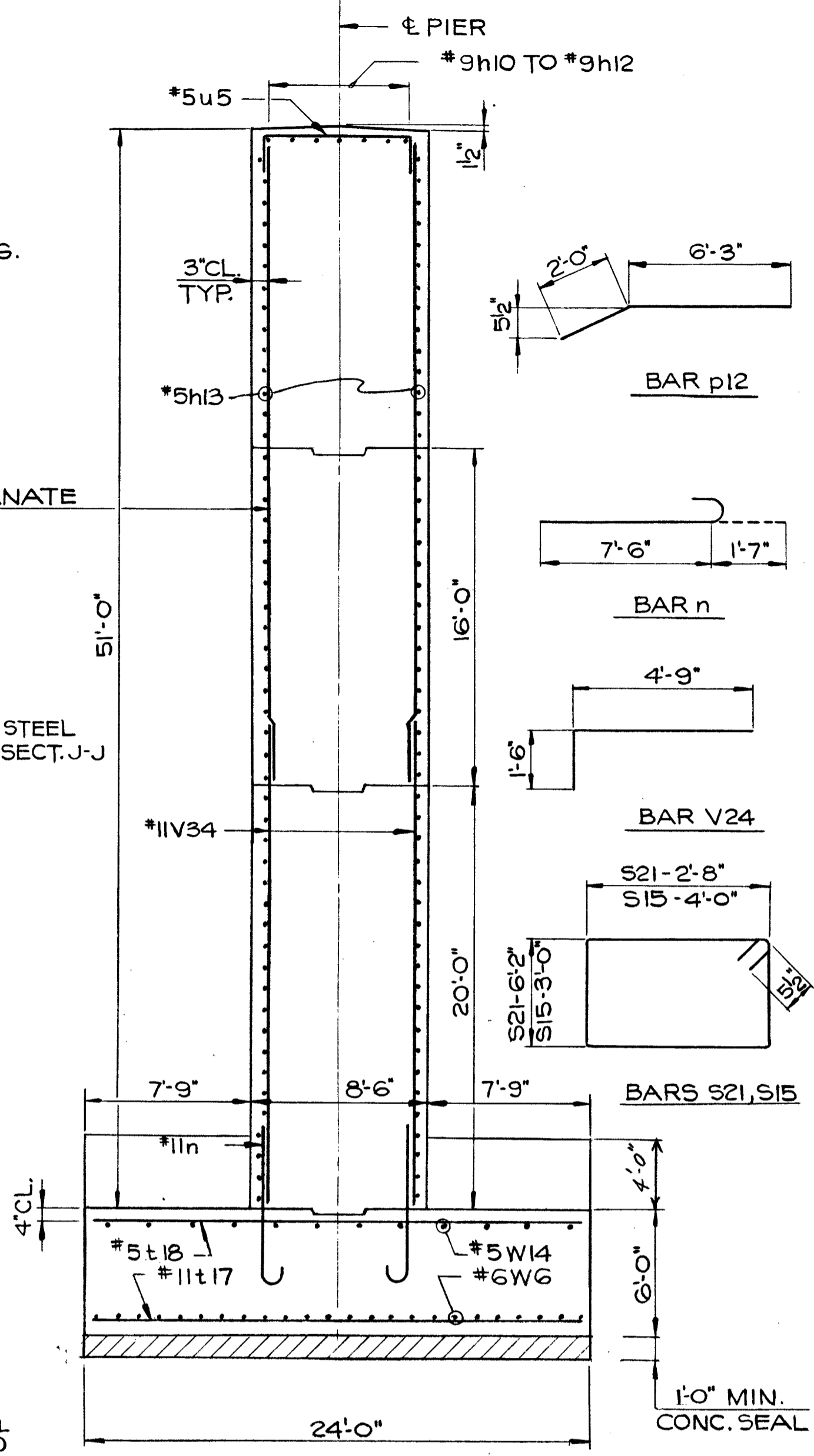
BAR Z + Z



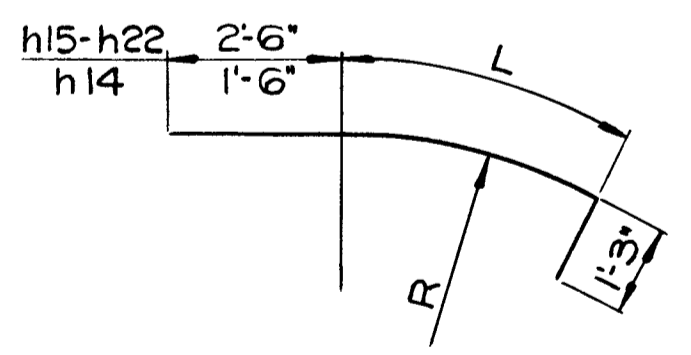
CONST. JT. DETAIL  
SCALE: 6" = 1'-0"



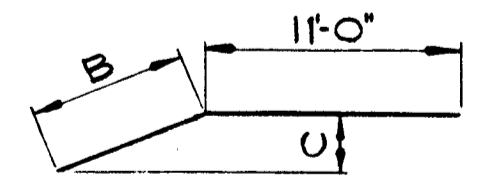
SECTION J-J  
SCALE: 1" = 1'-0"



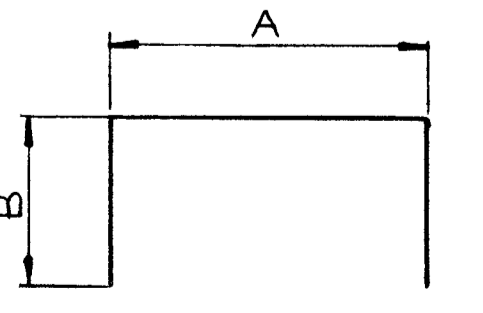
SECTION F-F  
SCALE: 3/16" = 1'-0"



BAR h14-h22



BARS VI25-V139



BARS S16, S17,  
S20, S22, U4, U5

BAR	R	L	BAR	R	L
h14	8'-3"	8'-6"	h19	13'-2 3/4"	10'-0"
h15	8'-4 1/8"	8'-8"	h20	14'-7 1/2"	11'-4"
h16	9'-5 1/8"	9'-2"	h21	16'-1 1/8"	11'-10"
h17	10'-7 1/8"	9'-9"	h22	18'-6"	12'-8"
h18	11'-10 1/4"	10'-3"			

BAR	B	C	BAR	B	C
VI25	22'-3"	12"	VI32	22'-3"	1'-8"
VI26	22'-3"	3"	VI33	22'-3"	2'-0"
VI27	22'-3"	4"	VI34	21'-0"	2'-4"
VI28	22'-3"	6"	VI35	16'-6"	1'-9"
VI29	22'-3"	8 1/2"	VI36	12'-0"	1'-6"
VI30	22'-3"	1'-0"	VI37	7'-6"	1'-1"
VI31	22'-3"	1'-3"	VI38	3'-0"	7"
VI39	1	9	VI39	22'-9"	4'-6"

BAR	A	B
S22	2'-8"	4'-4"
S16	3'-3"	3'-9"
S17	3'-3"	4'-6"
S20	4'-8"	1'-6"
U4	4'-8"	4'-6"
U5	8'-0"	1'-6"

BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	16	6	36'-0"	---
h10	6	9	26'-6"	---
h11	6	9	29'-0"	---
h12	9	9	30'-6"	---
h13	200	5	36'-0"	---
h14	102	5	11'-3"	---
h15	6	5	12'-5"	---
h16	6	5	12'-11"	---
h17	6	5	13'-6"	---
h18	6	5	14'-0"	---
h19	6	5	14'-7"	---
h20	6	5	15'-1"	---
h21	6	5	15'-7"	---
h22	60	5	16'-5"	---
n	355	11	9'-1"	---
p	20	11	41'-6"	---
p1	16	11	21'-0"	---
p2	20	11	29'-0"	---
p3	8	6	16'-0"	---
p5	16	11	15'-0"	---
pl2	24	8	8'-3"	---
S20	22	5	7'-8"	---
S21	216	5	18'-7"	---
S15	136	5	14'-11"	---
S22	222	5	11'-4"	---
S16	272	5	10'-9"	---
S17	272	5	12'-3"	---
t17	146	11	23'-6"	---
t18	96	5	23'-6"	---
u4	16	6	13'-8"	---
u5	39	5	11'-0"	---
V6	192	11	22'-0"	---
V24	12	5	6'-3"	---
V2	251	11	20'-9"	---
VI25	2	9	33'-3"	---
VI26	2	9	33'-3"	---
VI27	2	9	33'-3"	---
VI28	2	9	33'-3"	---
VI29	2	9	33'-3"	---
VI30	2	9	33'-3"	---
VI31	2	9	33'-3"	---
VI32	2	9	33'-3"	---
VI33	2	9	33'-3"	---
VI34	2	9	32'-0"	---
VI35	2	9	27'-6"	---
VI36	2	9	23'-0"	---
VI37	2	9	18'-6"	---
VI38	2	9	14'-0"	---
VI23	112	9	33'-0"	---
VI24	110	9	16'-0"	---
VI39	1	9	33'-9"	---
Z	24	6	17'-6"	---
Z1	24	6	9'-0"	---
W6	72	6	33'-0"	---
W14	72	5	32'-9"	---
W18	23	10	10'-0"	---
W19	23	10	15'-0"	---

Revised  
9-2-70

PIER 16  
CAP, WALL & FOOTING  
F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

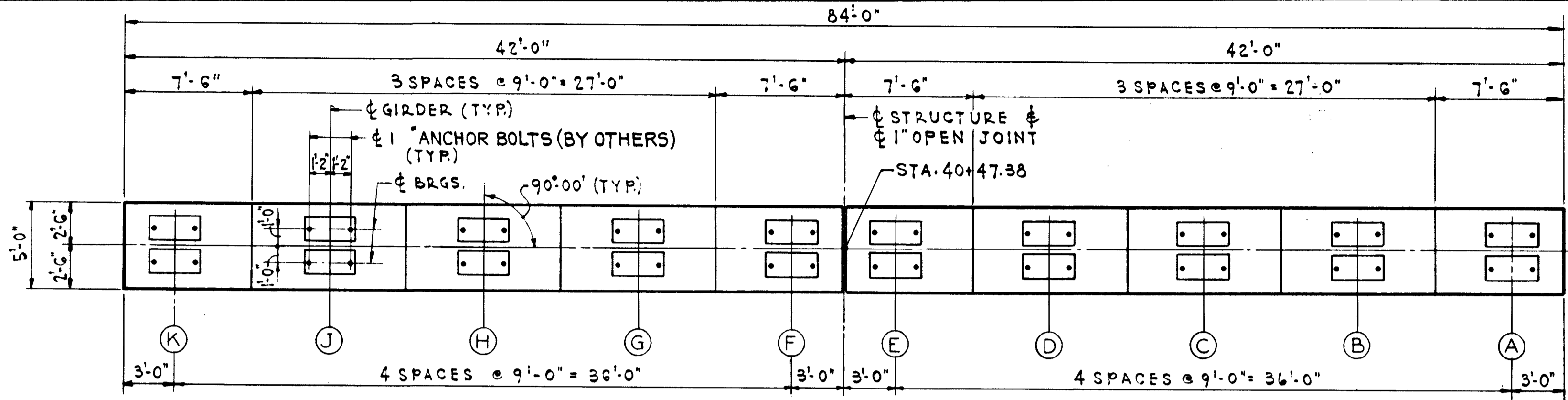
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY P. POPOVIC  
CHECKED BY J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

Rev [ ] S.F.M. 9-2-70

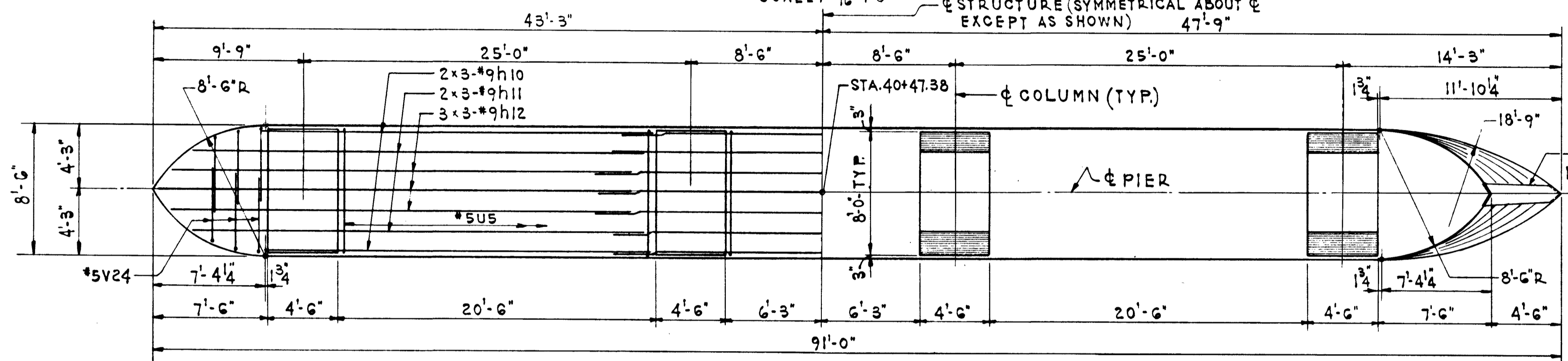




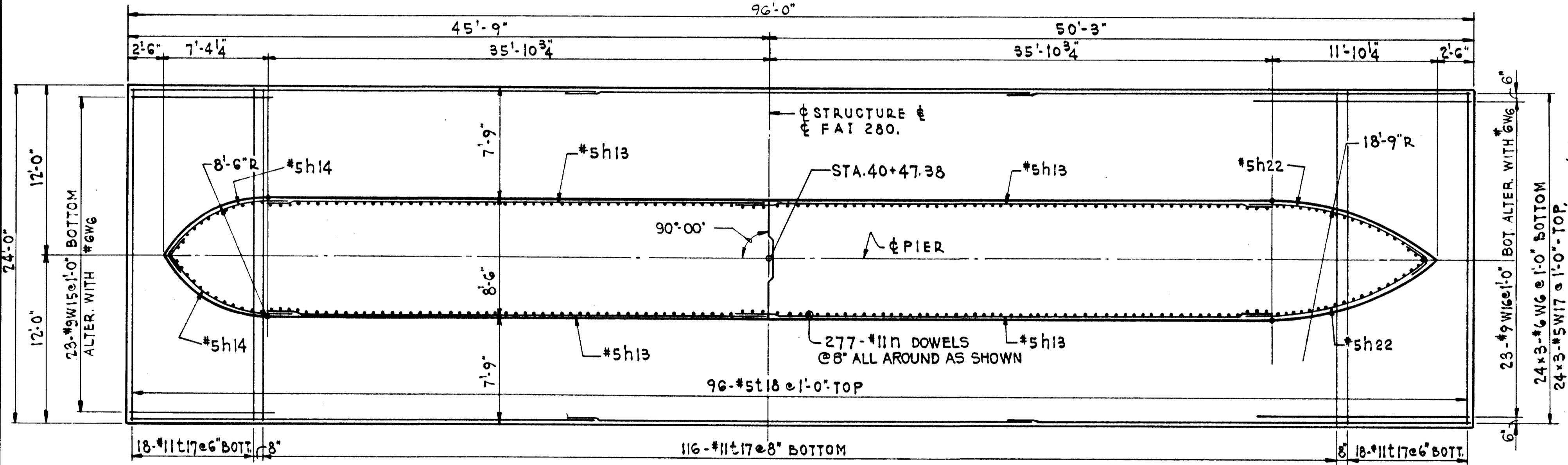
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	51
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



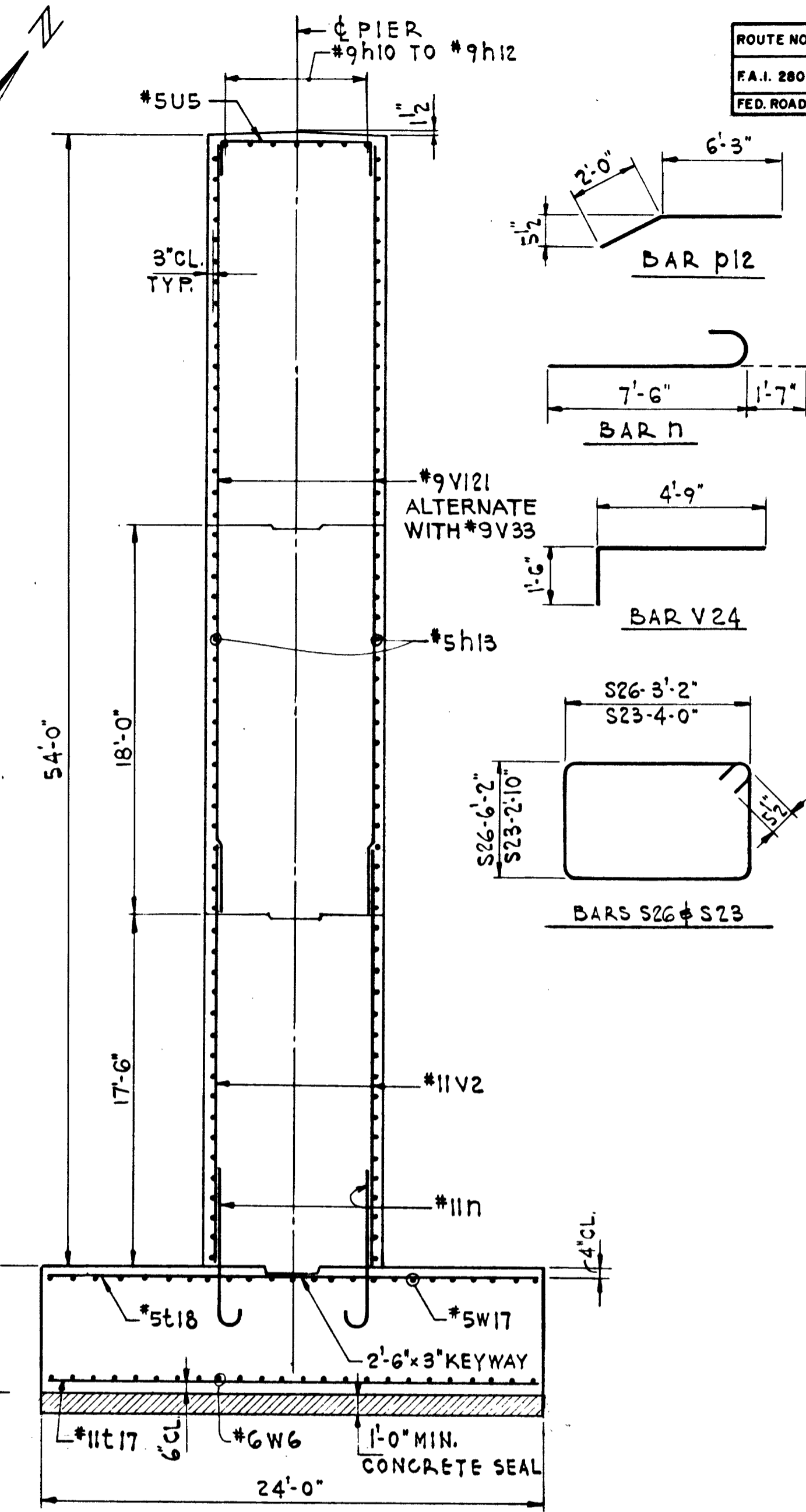
PLAN  
SCALE: 3/16" = 1'-0"



SECTION G-G  
SCALE: 3/16" = 1'-0"



SECTION E-E - FOOTING PLAN  
SCALE: 3/16" = 1'-0"



SECTION F-F  
SCALE: 3/16" = 1'-0"

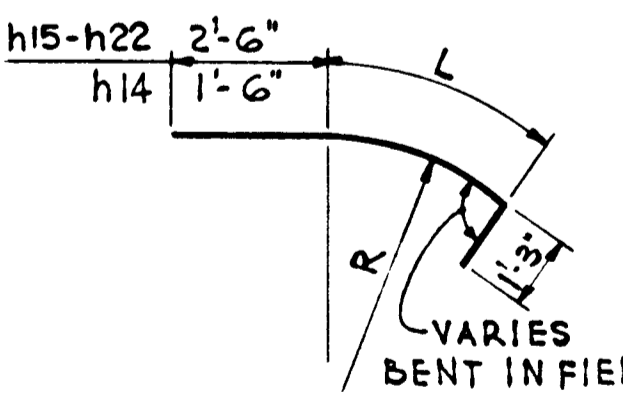
BAR	NO.	SIZE	LENGTH	SHAPE
h	16	#6	36'-0"	
h10	6	#9	26'-6"	
h11	6	#9	29'-0"	
h12	9	#9	30'-6"	
h13	21	#5	36'-0"	
h14	108	#5	11'-3"	
h15	6	#5	12'-5"	
h16	6	#5	12'-11"	
h17	6	#5	13'-6"	
h18	6	#5	14'-0"	
h19	6	#5	14'-7"	
h20	6	#5	15'-1"	
h21	6	#5	15'-7"	
h22	66	#5	16'-5"	

n	361	#11	9'-1"	
p	20	#11	41'-6"	
p1	4	#11	21'-0"	
p2	20	#11	29'-0"	
p3	8	#6	16'-0"	
p12	20	#8	8'-3"	
S26	140	#5	19'-7"	
S14	112	#5	11'-10"	
S20	22	#5	7'-8"	
S23	136	#5	14'-7"	
S29	272	#5	10'-6"	
S30	272	#5	12'-0"	

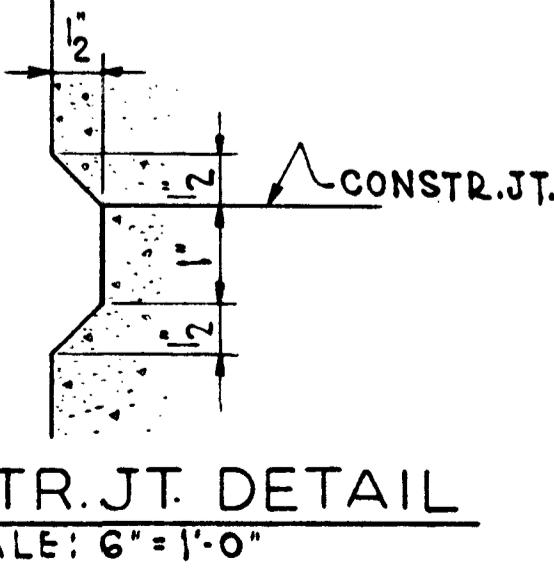
t17	152	#11	23'-6"	
t18	96	#5	23'-6"	
U4	16	#6	13'-8"	
U5	39	#5	11'-0"	

V2	453	#11	20'-9"	
V24	12	#5	6'-3"	
V121	128	#9	36'-0"	
V108	2	#9	36'-0"	
V109	2	#9	36'-0"	
V110	2	#9	36'-0"	
VIII	2	#9	36'-0"	
VIII2	2	#9	36'-0"	
VIII3	2	#9	36'-0"	
VIII4	2	#9	36'-0"	
VIII5	2	#9	34'-9"	
VIII6	2	#9	28'-9"	
VIII7	2	#9	22'-9"	
VIII8	2	#9	17'-6"	
V120	1	#9	36'-0"	
V33	126	#9	18'-0"	

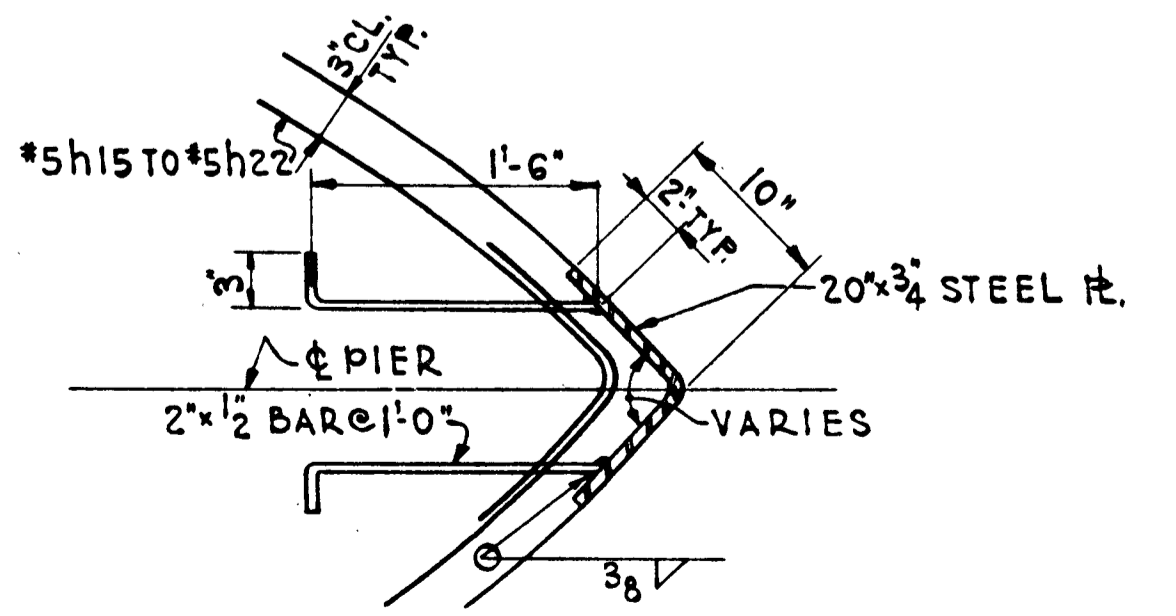
BAR	R	L	BAR	R	L
h14	8'-3"	8'-6"	h20	14'-7"	11'-4"
h15	8'-4"	8'-8"	h21	16'-5"	11'-10"
h16	9'-5"	9'-2"	h22	18'-6"	12'-8"
h17	10'-7"	9'-9"			
h18	11'-10"	10'-3"			
h19	13'-2"	10'-10"			



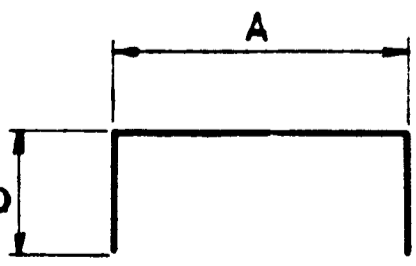
BARS h14-h22



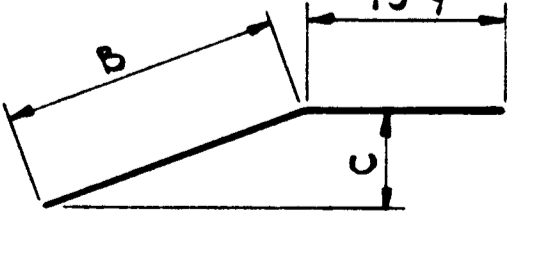
CONSTR. JT. DETAIL  
SCALE: 6" = 1'-0"



SECTION J-J  
SCALE: 1" = 1'-0"



BAR	A	B
S14	3'-2"	4'-4"
S20	4'-8"	1'-6"
S29	3'-0"	3'-9"
S30	3'-0"	4'-6"
U4	4'-8"	4'-6"
U5	8'-0"	1'-6"



BARS V108-V118, V120

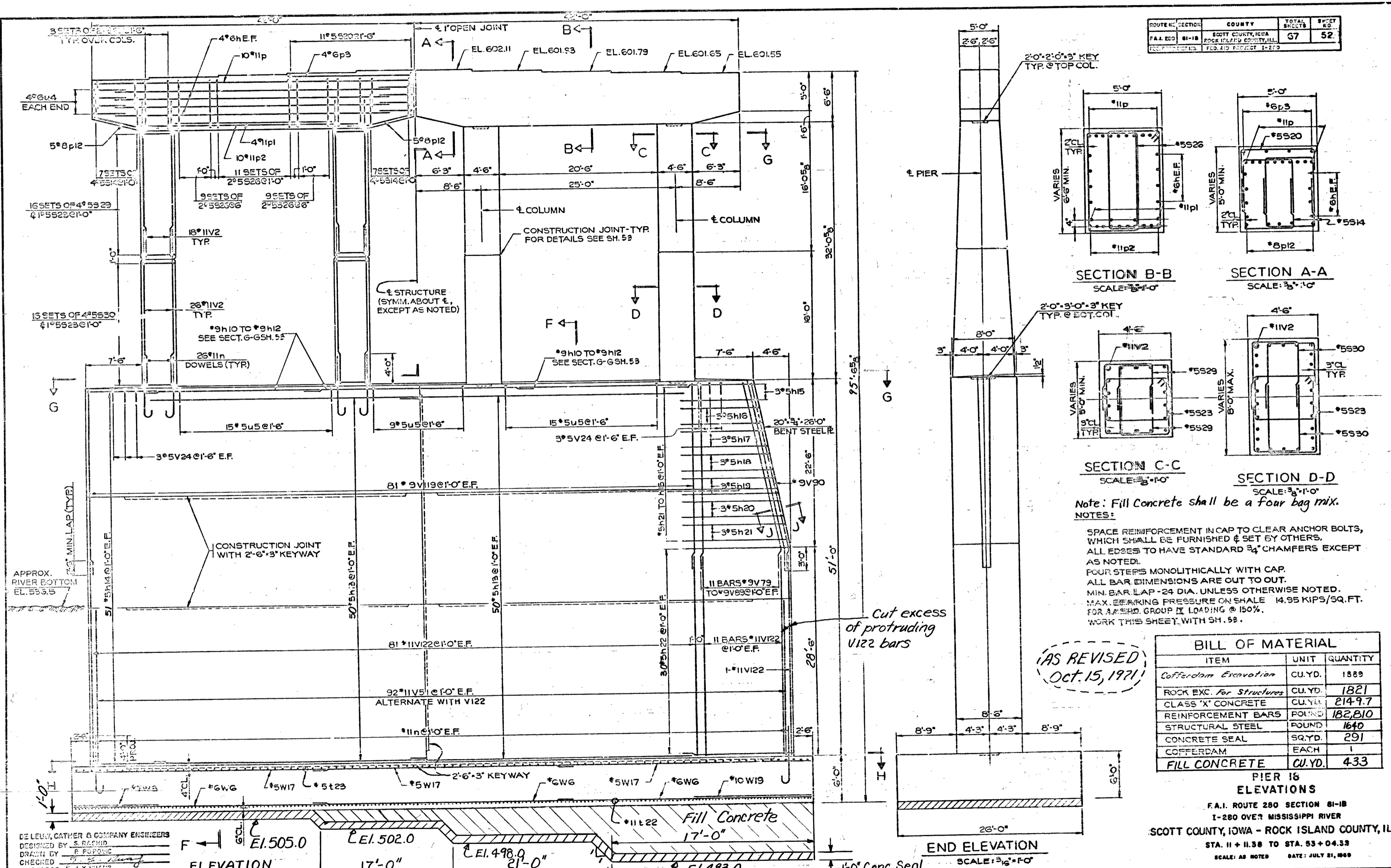
BAR	B	C	BAR	B	C
V108	22'-3"	1'-2"	V114	22'-3"	2'-0"
V109	22'-3"	3"	V115	21'-0"	2'-0"
V110	22'-3"	5'-2"	V116	15'-0"	1'-6"
VIII	22'-3"	9"	V117	9'-0"	1'-0"
V112	22'-3"	1'-1"	V118	3'-9"	3"
V113	22'-3"	1'-6"	V120	22'-9"	4'-6"

DE LEUW, CATHY & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY P. POPOVIC  
CHECKED BY J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

NOTE:  
WORK THIS SHEET WITH SH. 50

PIER 17  
CAP, WALL & FOOTING  
F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.A. 81-18	81-18	SCOTT COUNTY, IOWA	57	52
PROJECT TITLE		ROCK ISLAND COUNTY, ILL. FED. AID PROJECT 1-280		



Note: Fill Concrete shall be a four bag mix.

NOTES:

- SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED & SET BY OTHERS.
- ALL EDGES TO HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.
- FOUR STEPS MONOLITHICALLY WITH CAP.
- ALL BAR DIMENSIONS ARE OUT TO OUT.
- MIN. BAR LAP - 24 DIA. UNLESS OTHERWISE NOTED.
- MAX. BEARING PRESSURE ON SHALE 14.95 KIPS/SQ. FT. FOR A.A. SHD. GROUP II LOADING @ 150%.
- WORK THIS SHEET WITH SH. 53.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
Cofferdam Excavation	CU. YD.	1889
ROCK EXC. For Structures	CU. YD.	1821
CLASS 'X' CONCRETE	CU. YD.	2149.7
REINFORCEMENT BARS	POUND	182,810
STRUCTURAL STEEL	POUND	1640
CONCRETE SEAL	SQ. YD.	291
COFFERDAM	EACH	1
FILL CONCRETE	CU. YD.	433

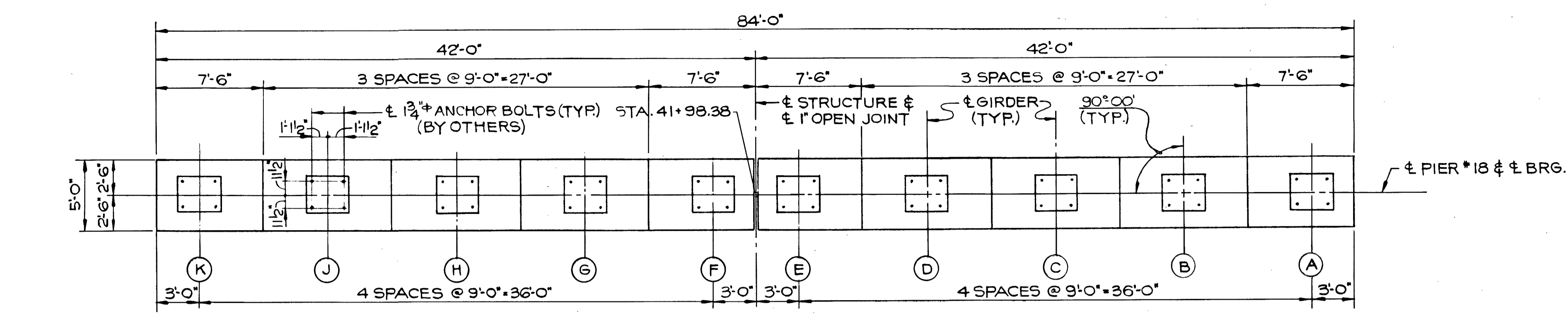
PIER 16  
ELEVATIONS  
F.A.I. ROUTE 280 SECTION 81-18  
1-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.33  
SCALE: AS NOTED DATE: JULY 21, 1969

DE LELY, CATHEN & COMPANY ENGINEERS  
DESIGNED BY S. R. BARNHART  
DRAWN BY R. R. BARNHART  
CHECKED BY J. J. HART  
IN CHARGE J. J. HART  
APPROVED W. G. KORN

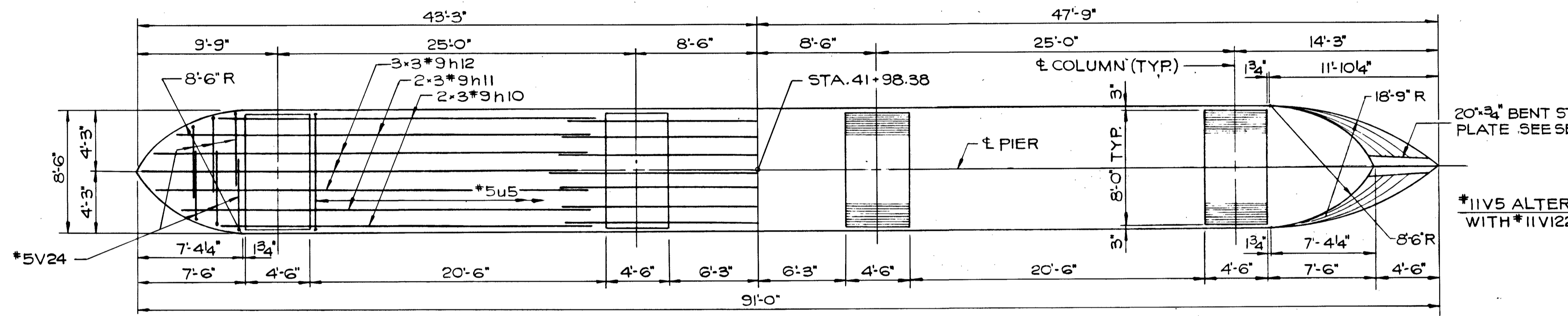
Revised 10/15/71 Rock Excav. from 2079 to 1821 Cu. Yds., Class X from 2364.0 to 2149.7 Cu. Yds., Reinf. from 184,470 to 182,810 lbs., Conc. Seal from 278 to 291 Sq. Yds., Fill Conc. 433 Cu. Yds. added; S.M.



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	53
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		

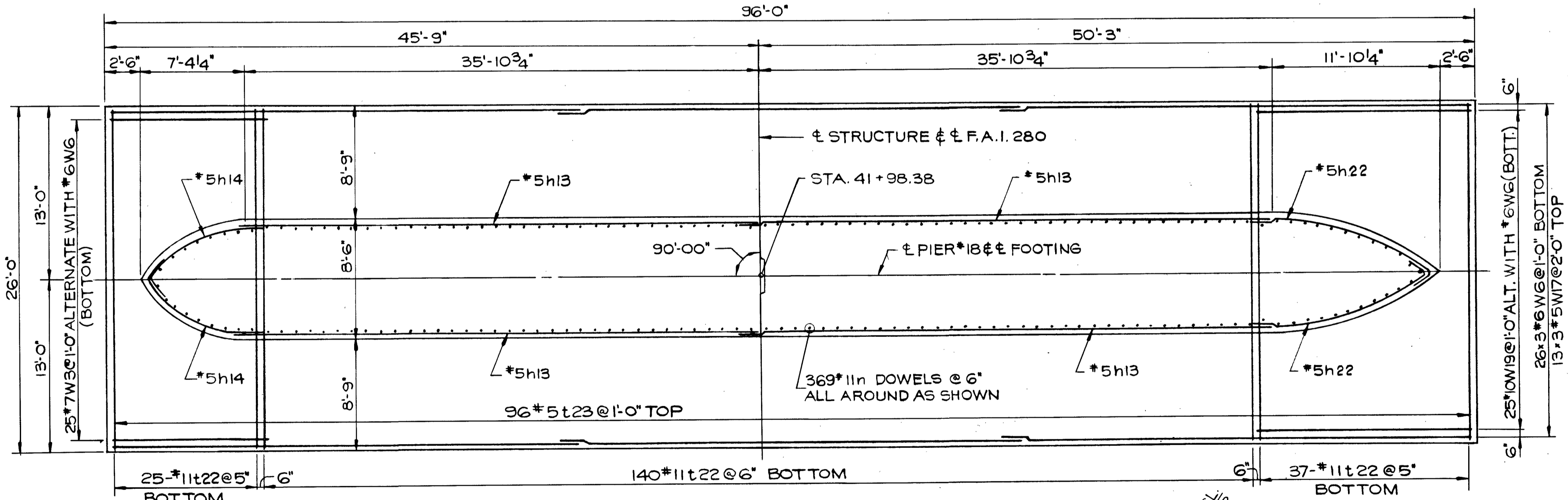


PLAN  
SCALE: 3/16" = 1'-0"



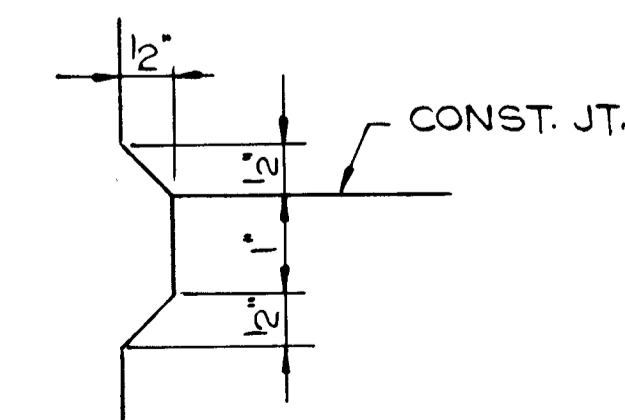
SECTION G-G  
SCALE: 3/16" = 1'-0"

KEY TO BAR INDICATION:  
26\*3\*6- INDICATES 26 LINES OF #6 BARS WITH 3 LENGTHS PER LINE.

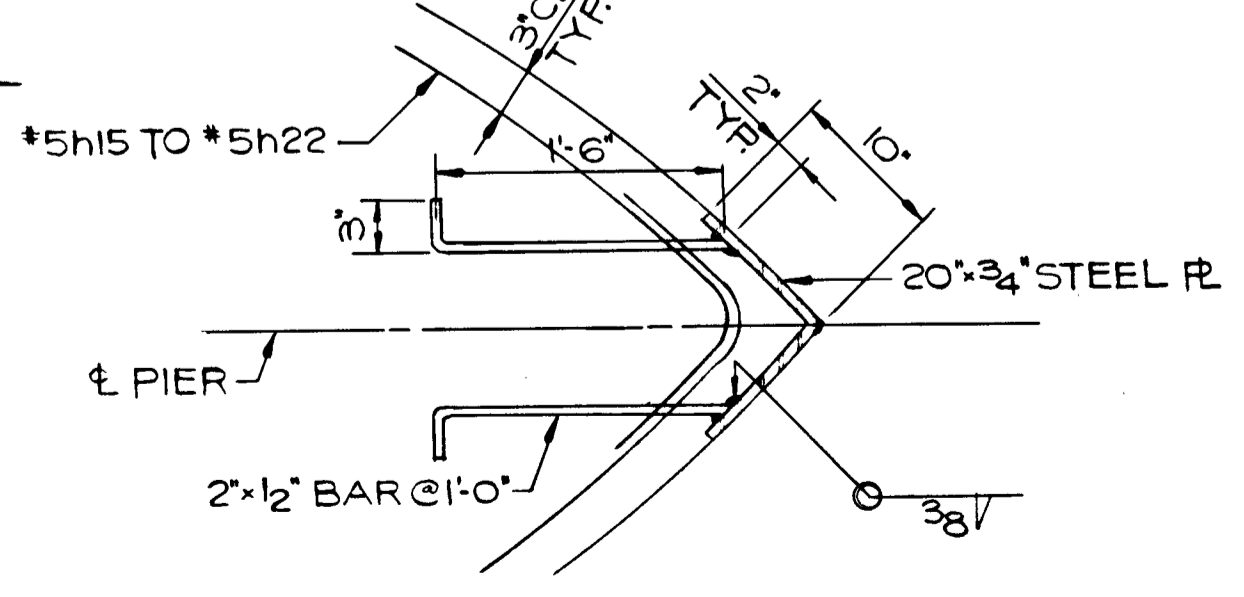


SECTION H-H FOOTING PLAN  
SCALE: 3/16" = 1'-0"

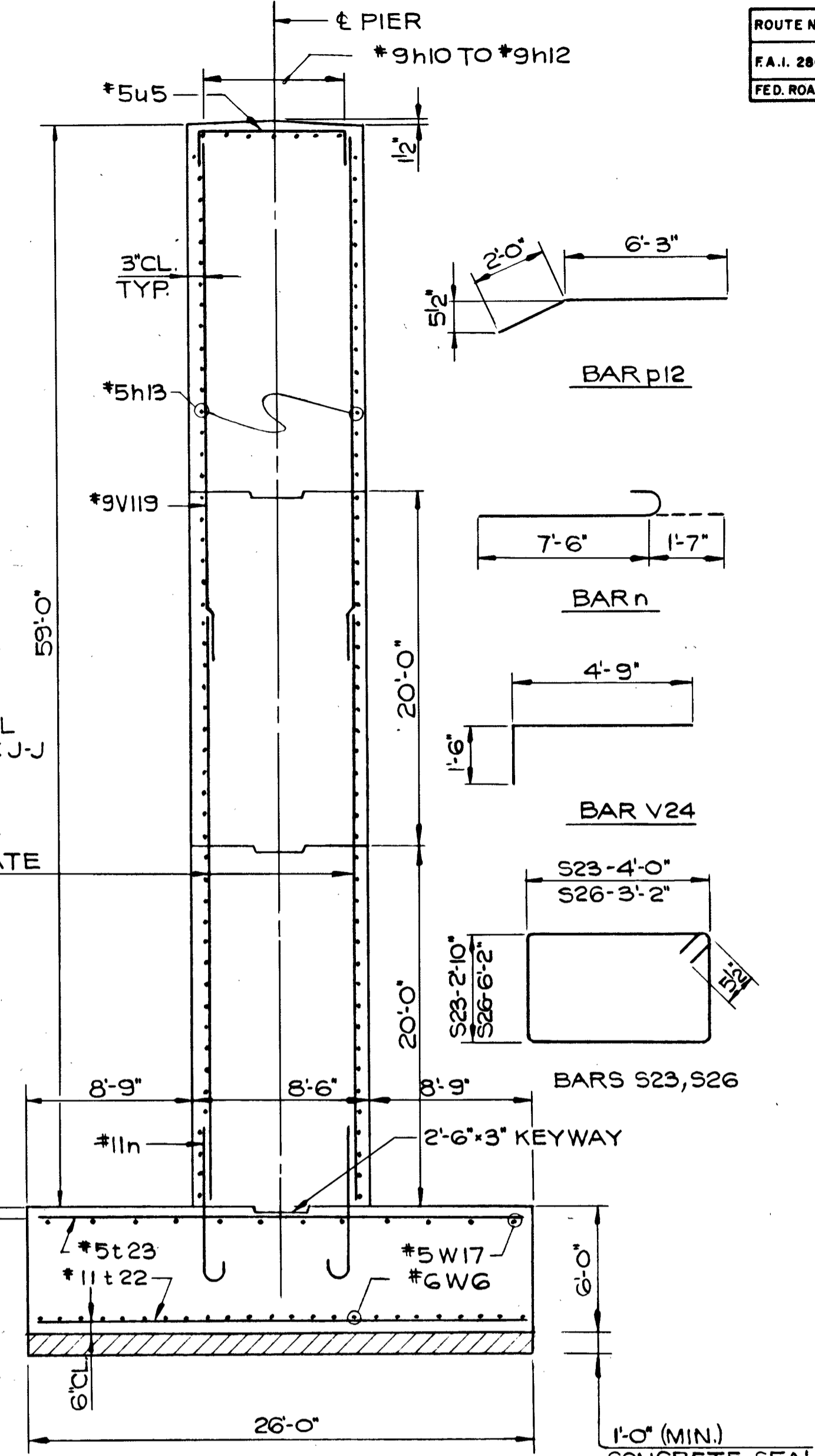
NOTE:  
WORK THIS SHEET WITH SH. 52



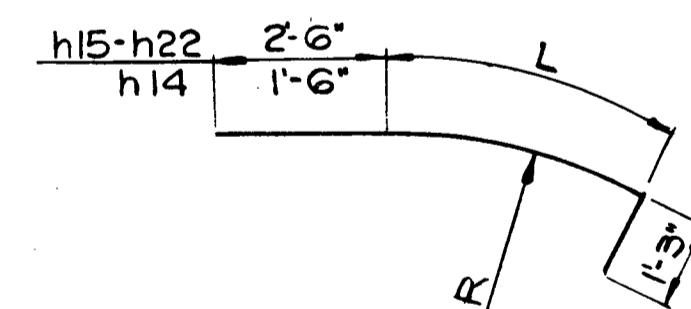
CONSTR. JT. DETAIL  
SCALE: 6" = 1'-0"



SECTION J-J  
SCALE: 1" = 1'-0"

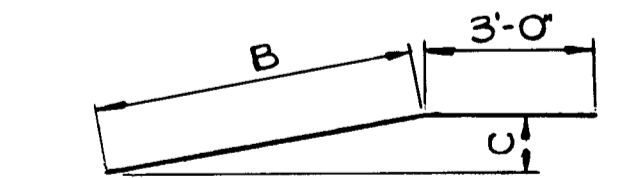


SECTION F-F  
SCALE: 3/16" = 1'-0"



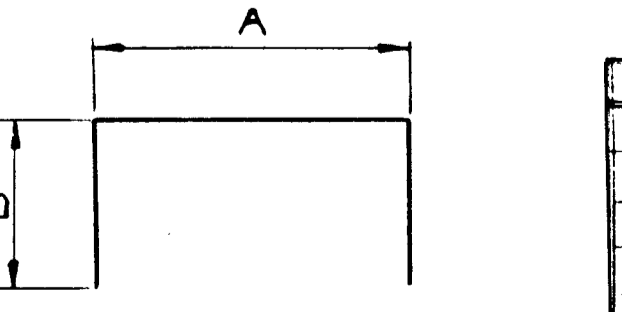
BARS h14 - h22

BAR	R	L	BAR	R	L
h14	8'-3"	8'-6"	h19	13'-2 1/2"	10'-10"
h15	8'-4 1/2"	8'-8"	h20	14'-7 1/2"	11'-4"
h16	9'-5 1/2"	9'-2"	h21	16'-1 1/2"	11'-10"
h17	10'-7 1/2"	9'-9"	h22	18'-6"	12'-8"
h18	11'-10 1/4"	10'-3"			



BARS V79 - V90

BAR	B	C	BAR	B	C
V90	22'-9"	4'-6"	V85	22'-3"	2'-0"
V79	22'-3"	1'-2"	V86	21'-0"	2'-0"
V80	22'-3"	3"	V87	15'-0"	1'-6"
V81	22'-3"	5 1/2"	V88	9'-0"	1'-0"
V82	22'-3"	9"	V89	3'-9"	3"
V83	22'-3"	1'-1"			
V84	22'-3"	1'-6"			



BARS S14, S20, S29, S30, u4, u5

BAR	A	B
S29	3'-0"	3'-9"
S30	3'-0"	4'-6"
S14	3'-2"	4'-4"
S20	4'-8"	1'-6"
u4	4'-8"	4'-6"
u5	8'-0"	1'-6"

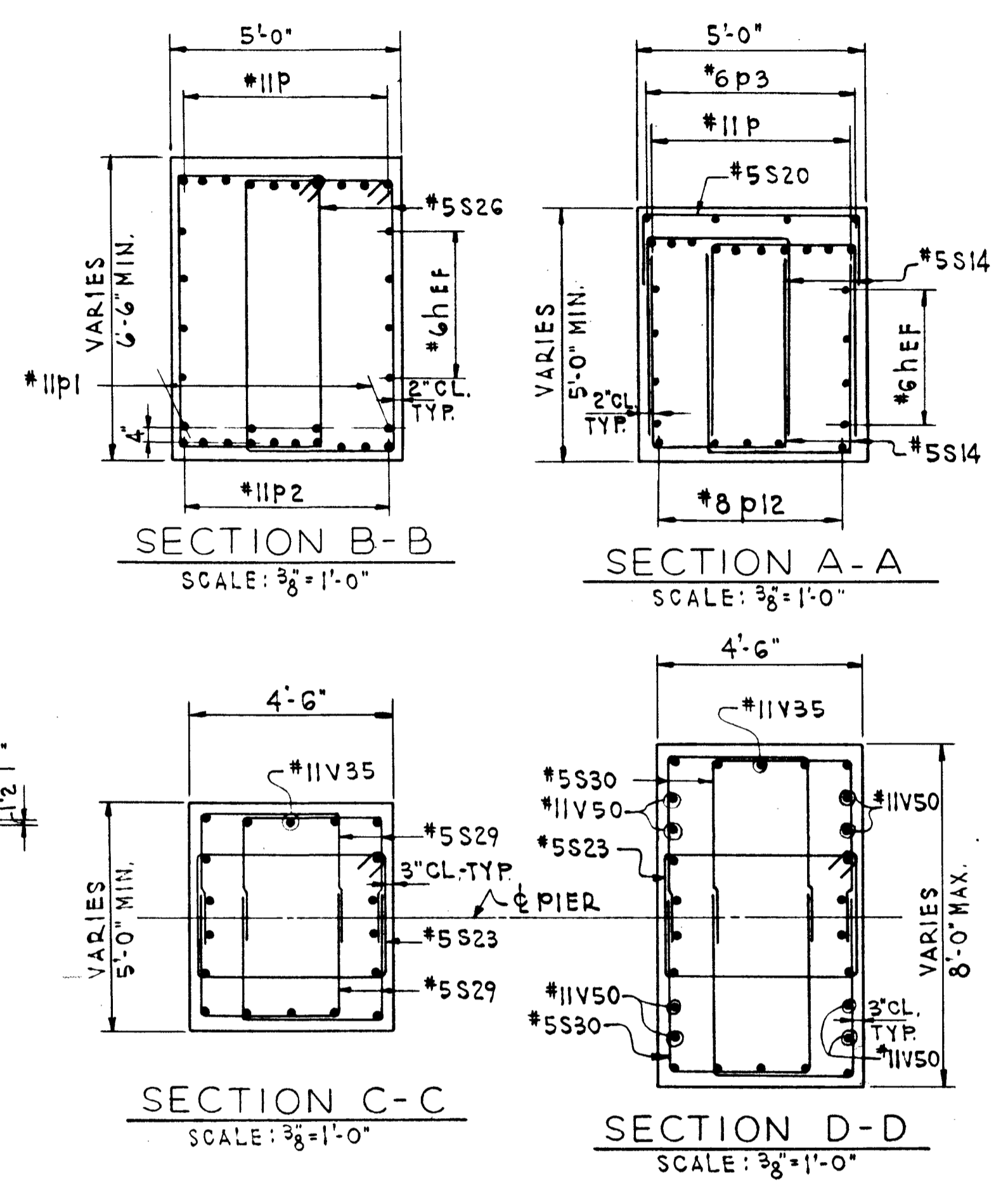
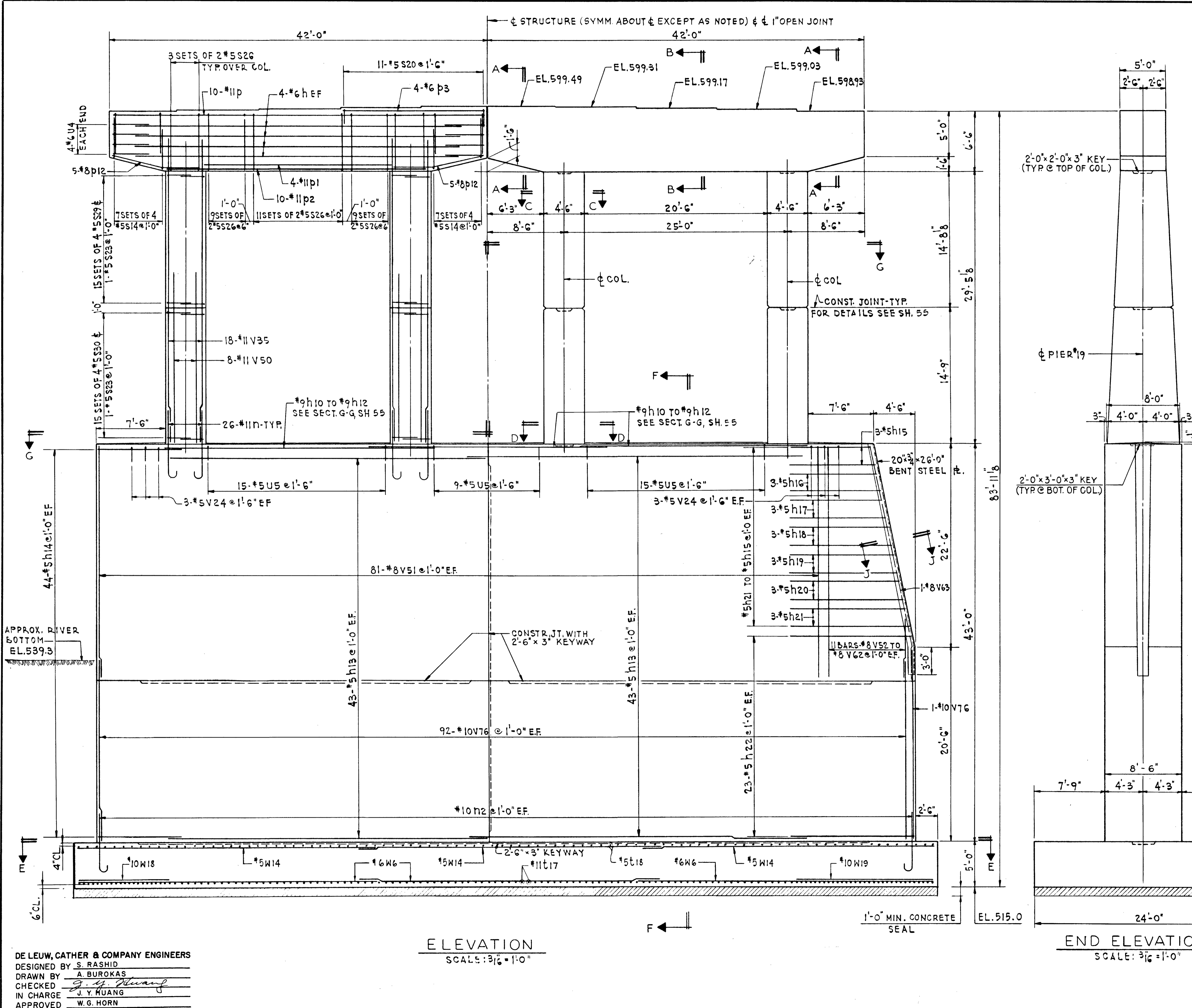
BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	16	6	36'-0"	
h10	6	9	26'-6"	
h11	6	9	29'-0"	
h12	9	9	30'-6"	
h13	200	5	36'-0"	
h14	102	5	11'-3"	
h15	6	5	12'-5"	
h16	6	5	12'-11"	
h17	6	5	13'-6"	
h18	6	5	14'-0"	
h19	6	5	14'-7"	
h20	6	5	15'-1"	
h21	6	5	15'-7"	
h22	60	5	16'-5"	
n	473	11	9'-1"	
p	20	11	41'-6"	
p1	8	11	21'-0"	
p2	20	11	29'-0"	
p3	8	6	16'-0"	
p12	20	8	8'-3"	
S23	128	5	14'-7"	
S29	256	5	10'-6"	
S30	256	5	12'-0"	
S26	140	5	19'-7"	
S14	112	5	11'-10"	
S20	22	5	7'-8"	
t22	202	11	25'-6"	
t23	96	5	25'-6"	
u4	16	6	13'-8"	
u5	39	5	11'-0"	
V5	184	11	19'-9"	
V2	176	11	20'-9"	
V24	12	5	6'-3"	
V122	185	11	36'-0"	
V90	1	9	25'-9"	
V119	162	9	25'-6"	
V79	2	9	25'-3"	
V80	2	9	25'-3"	
V81	2	9	25'-3"	
V82	2	9	25'-3"	
V83	2	9	25'-3"	
V84	2	9	25'-3"	
V85	2	9	25'-3"	
V86	2	9	24'-0"	
V87	2	9	18'-0"	
V88	2	9	12'-0"	
V89	2	9	6'-9"	
W6	78	6	33'-0"	
W3	25	7	11'-6"	
W19	25	10	15'-0"	
W17	39	5	33'-0"	

AS REVISED  
Oct. 15, 1971

PIER 18  
CAP, WALL & FOOTING  
F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY P. POPOVIC  
CHECKED J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W.G. HORN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	54
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		



**NOTES:**

SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED AND SET BY OTHERS.

ALL EDGES TO HAVE STANDARD 3/4" CHAMFER EXCEPT AS NOTED.

FOUR STEPS MONOLITHICALLY WITH CAP.

ALL BAR DIMENSIONS ARE OUT TO OUT.

MIN. BAR LAP - 24 DIA. UNLESS OTHERWISE NOTED.

MAX. BEARING PRESSURE ON SHALE 11.74 KIPS/SQ. FT. FOR AASHO. GROUP IX LOADING @ 150%

WORK THIS SHEET WITH SH. 55

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
Cofferdam Excavation	CU. YD.	2281
ROCK EXCAVATION For Structures	CU. YD.	283
CLASS X CONCRETE	CU. YD.	1797.7
REINFORCEMENT BARS	POUND	118490
STRUCTURAL STEEL	POUND	1640
CONCRETE SEAL	SQ. YD.	256
COFFERDAM	EACH	1

**PIER 19 ELEVATIONS**

F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.

STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

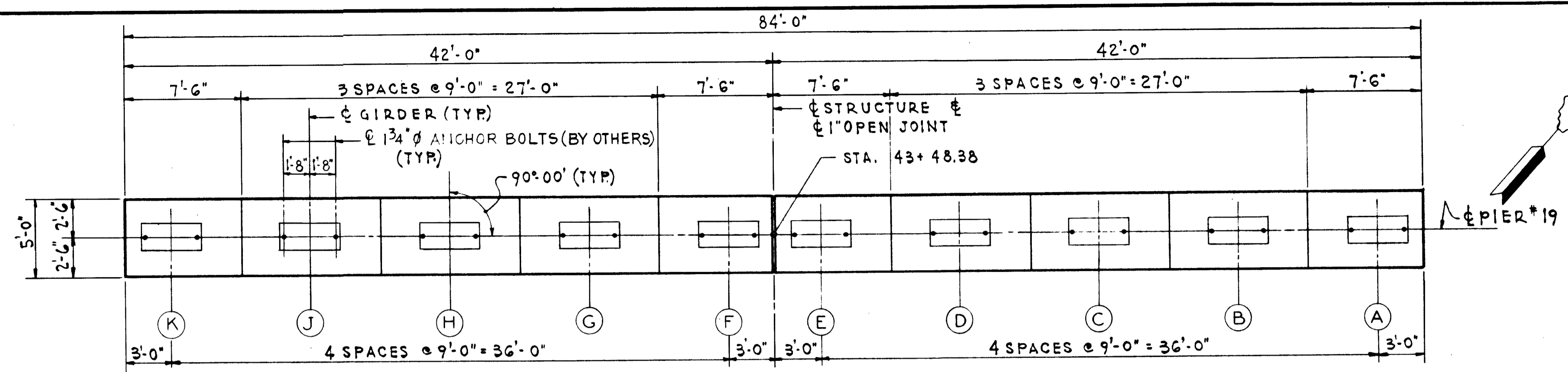
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY A. BUROKAS  
CHECKED J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

**ELEVATION**  
SCALE: 3/16" = 1'-0"

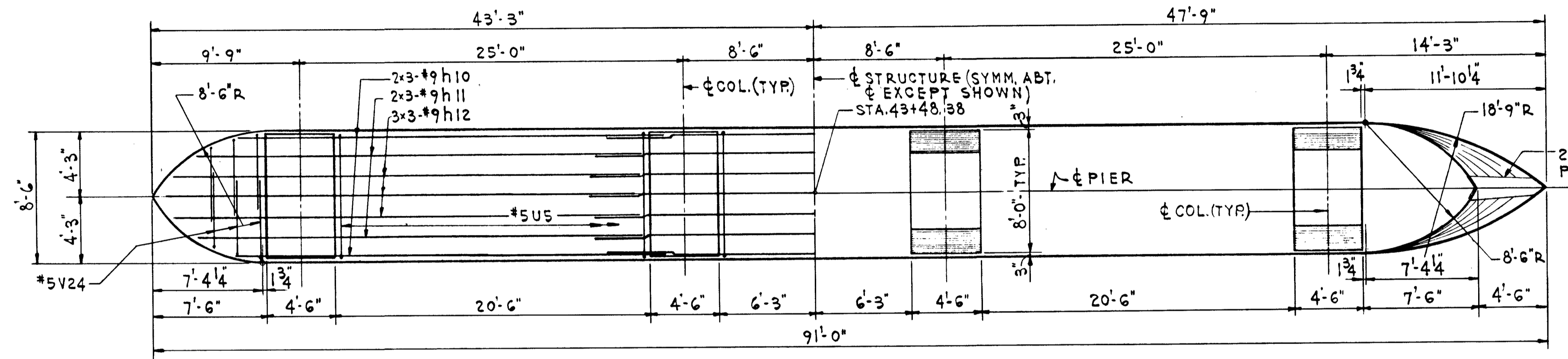
**END ELEVATION**  
SCALE: 3/16" = 1'-0"



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	55
FED. ROAD DIST. NO.		FED. AID PROJECT	I-280	

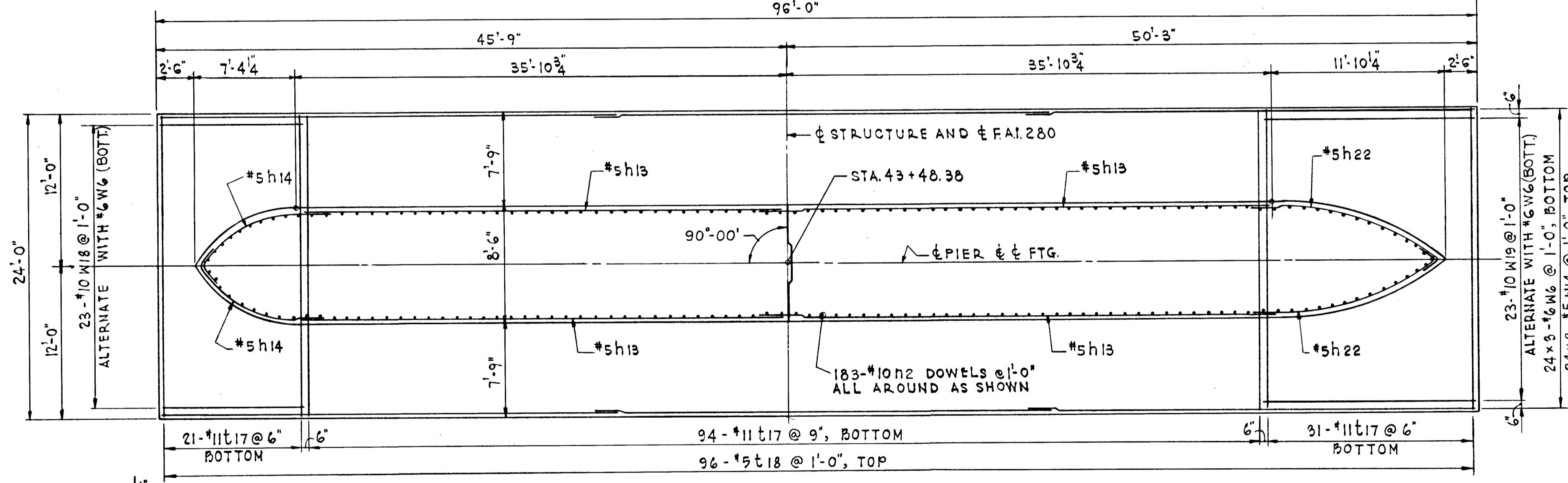


PLAN  
SCALE: 3/16" = 1'-0"

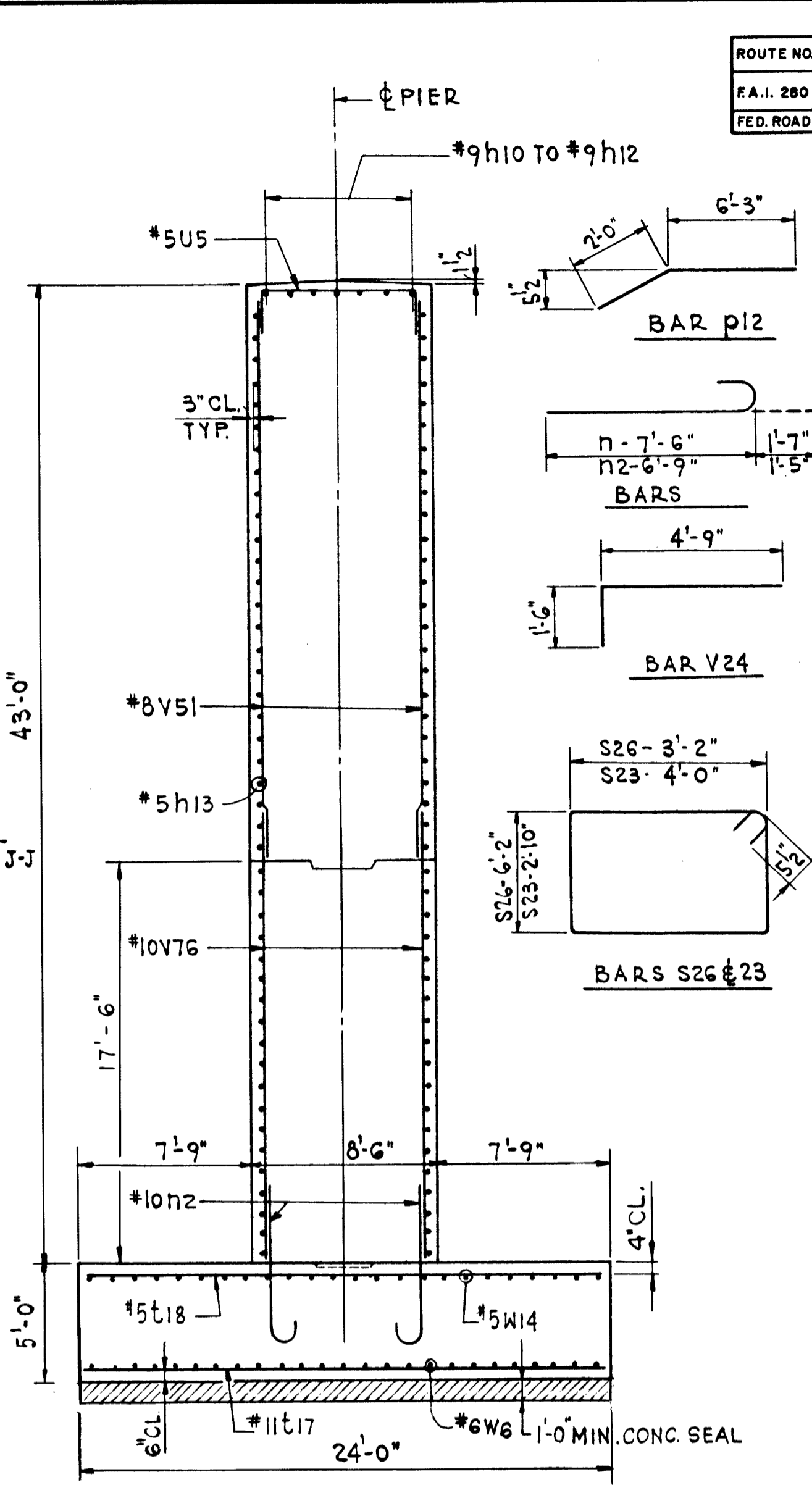


SECTION G-G  
SCALE: 3/16" = 1'-0"

KEY TO BAR INDICATIONS:  
24 x 3 - #6 INDICATES 24 LINES OF #6 BARS WITH 3 LENGTHS PER LINE.

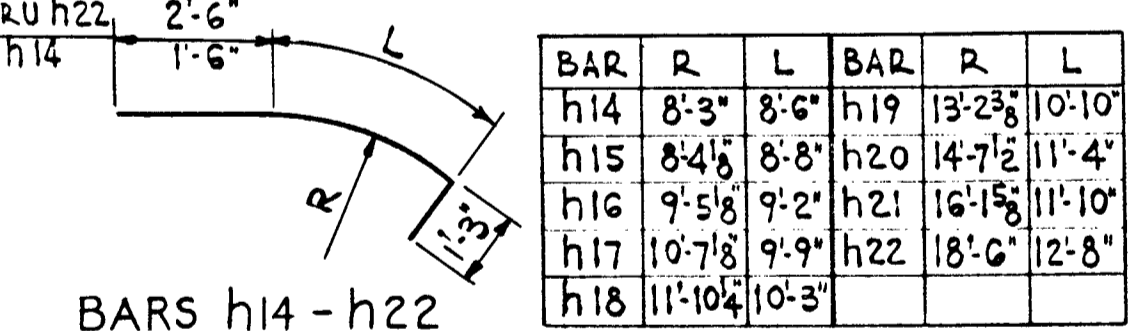


SECTION E-E FOOTING PLAN  
SCALE: 3/16" = 1'-0"

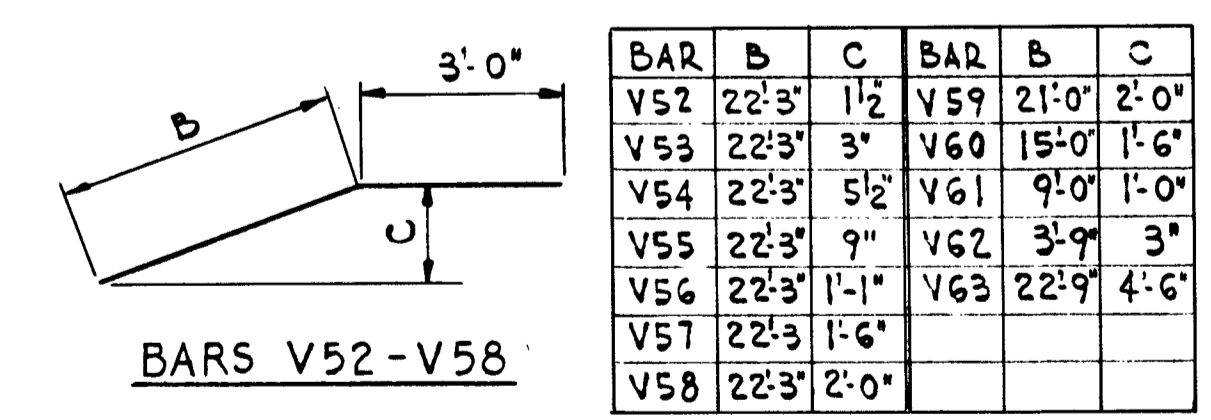


SECTION F-F  
SCALE: 3/16" = 1'-0"

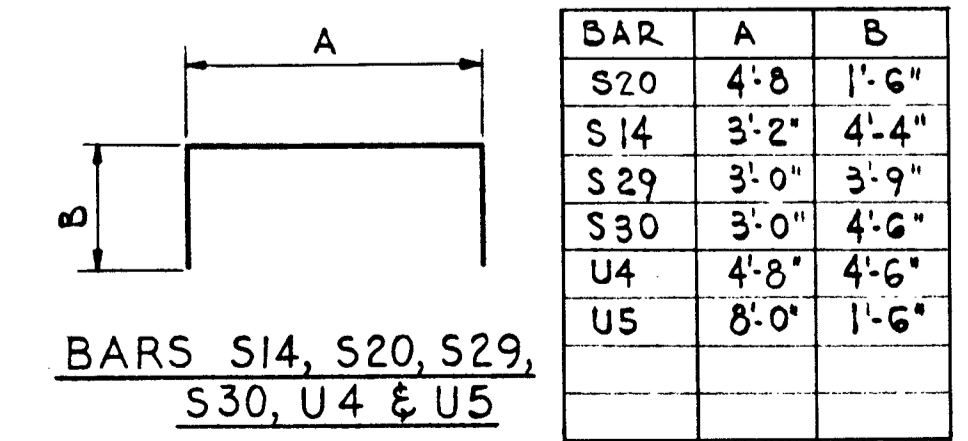
BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	16	#6	36'-0"	
h10	6	#9	26'-6"	
h11	6	#9	29'-0"	
h12	9	#9	30'-6"	
h13	172	#5	36'-0"	
h14	88	#5	11'-3"	
h15	6	#5	12'-5"	
h16	6	#5	12'-11"	
h17	6	#5	13'-6"	
h18	6	#5	14'-0"	
h19	6	#5	14'-7"	
h20	6	#5	15'-1"	
h21	6	#5	15'-7"	
h22	46	#5	16'-5"	
n	104	#11	9'-1"	
n2	185	#10	8'-2"	
p	20	#11	41'-6"	
p1	8	#11	21'-0"	
p2	20	#11	29'-0"	
p3	8	#6	16'-0"	
p12	20	#8	8'-3"	
s20	22	#5	7'-8"	
s26	149	#5	19'-7"	
s14	112	#5	11'-10"	
s23	120	#5	14'-7"	
s29	240	#5	10'-6"	
s30	240	#5	12'-0"	
t17	146	#11	23'-6"	
t18	96	#5	23'-6"	
u4	16	#6	13'-8"	
u5	39	#5	11'-0"	
v24	12	#5	6'-3"	
v35	72	#11	33'-6"	
v50	32	#11	18'-6"	
v51	162	#8	25'-6"	
v52	2	#8	25'-3"	
v53	2	#8	25'-3"	
v54	2	#8	25'-3"	
v55	2	#8	25'-3"	
v56	2	#8	25'-3"	
v57	2	#8	25'-3"	
v58	2	#8	25'-3"	
v59	2	#8	24'-0"	
v60	2	#8	18'-0"	
v61	2	#8	12'-0"	
v62	2	#8	6'-9"	
v63	1	#8	25'-9"	
v76	185	#10	20'-3"	
w6	72	#6	33'-0"	
w14	72	#5	32'-9"	
w18	23	#10	10'-0"	
w19	23	#10	15'-0"	



BARS h14 - h22

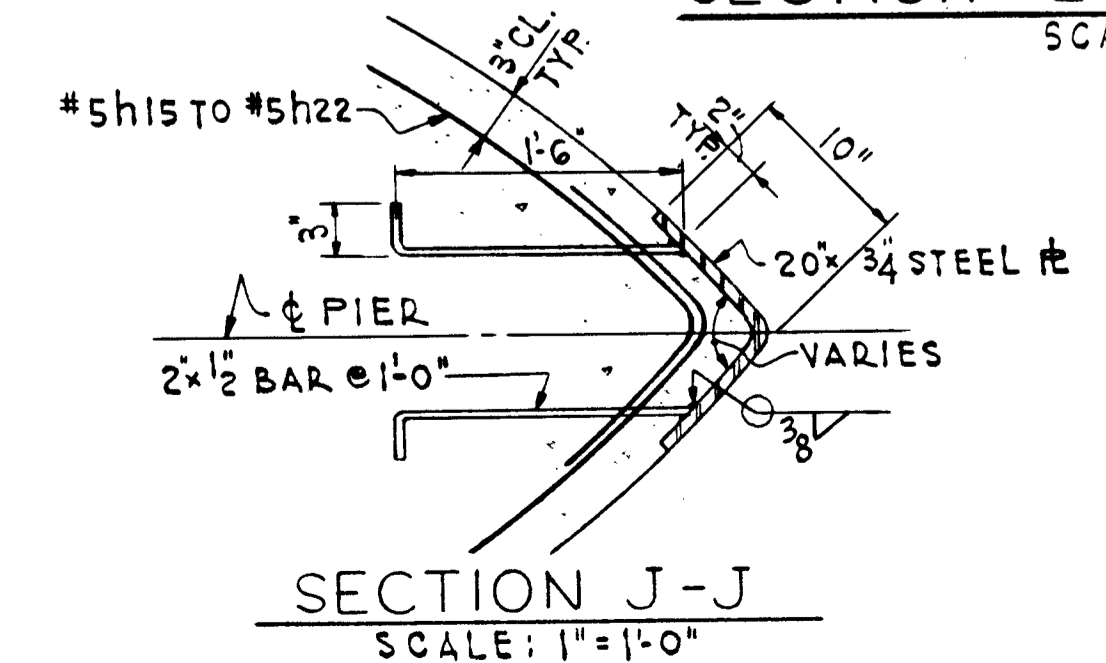


BARS v52 - v58



BARS s14, s20, s29, s30, u4 & u5

CONSTR. JT. DETAIL  
SCALE: 6" = 1'-0"



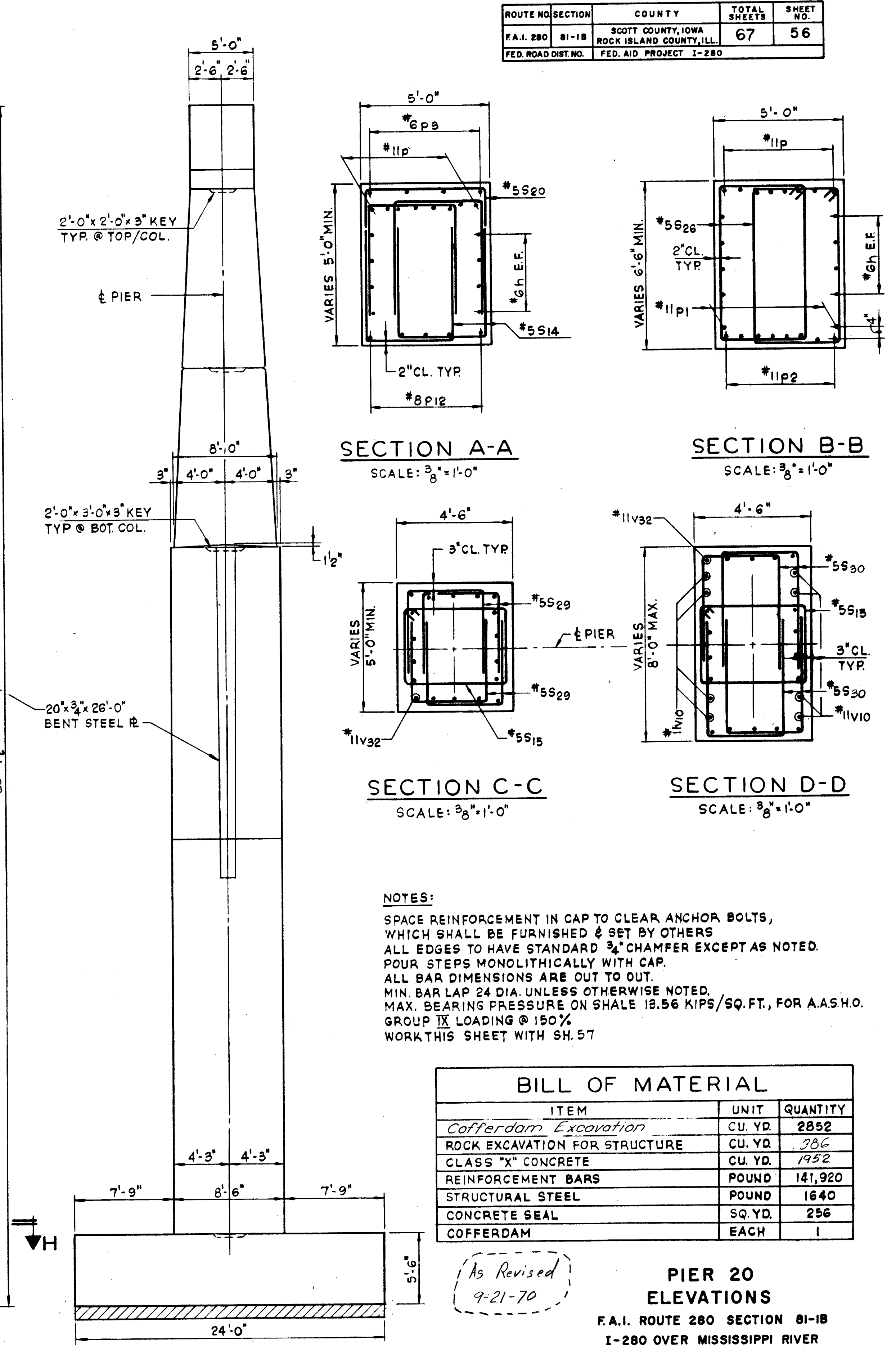
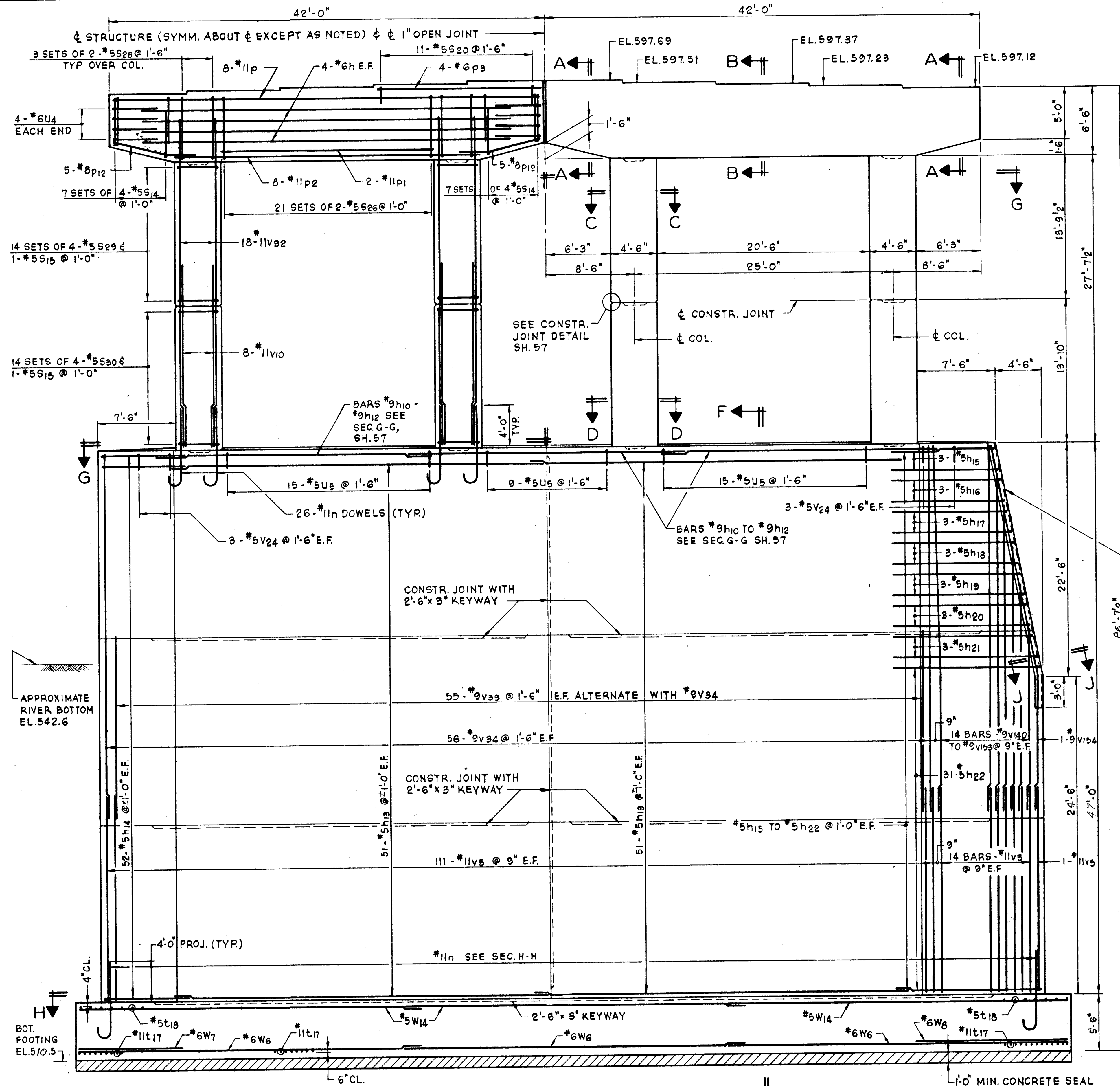
SECTION J-J  
SCALE: 1" = 1'-0"

NOTE:  
WORK THIS SHEET WITH SH. 54

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY A. BUKOKAS  
CHECKED J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

PIER 19  
CAP, WALL & FOOTING  
F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	56
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



**NOTES:**  
 SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED & SET BY OTHERS  
 ALL EDGES TO HAVE STANDARD 3/4" CHAMFER EXCEPT AS NOTED.  
 POUR STEPS MONOLITHICALLY WITH CAP.  
 ALL BAR DIMENSIONS ARE OUT TO OUT.  
 MIN. BAR LAP 24 DIA. UNLESS OTHERWISE NOTED.  
 MAX. BEARING PRESSURE ON SHALE 12.56 KIPS/SQ. FT. FOR A.A.S.H.O. GROUP TX LOADING @ 150%  
 WORK THIS SHEET WITH SH. 57

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
Cofferdam Excavation	CU. YD.	2852
ROCK EXCAVATION FOR STRUCTURE	CU. YD.	386
CLASS "X" CONCRETE	CU. YD.	1952
REINFORCEMENT BARS	POUND	141,920
STRUCTURAL STEEL	POUND	1640
CONCRETE SEAL	SQ. YD.	256
COFFERDAM	EACH	1

As Revised  
9-21-70

**PIER 20 ELEVATIONS**  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY S. RASHID  
 DRAWN BY J. N. LESLIE  
 CHECKED J. Y. HUANG  
 IN CHARGE J. Y. HUANG  
 APPROVED W.G. HORN

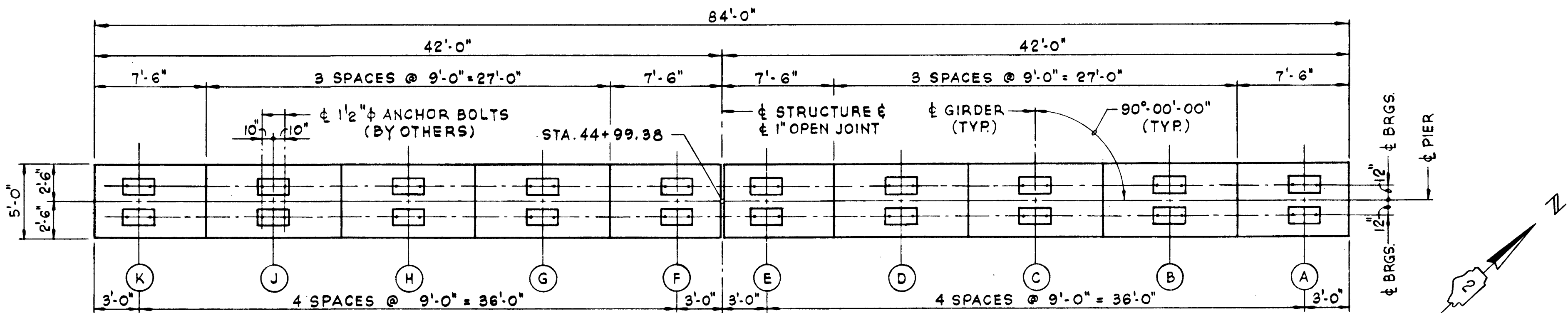
**ELEVATION**  
 SCALE: 3/8" = 1'-0"

**END ELEVATION**  
 SCALE: 3/16" = 1'-0"

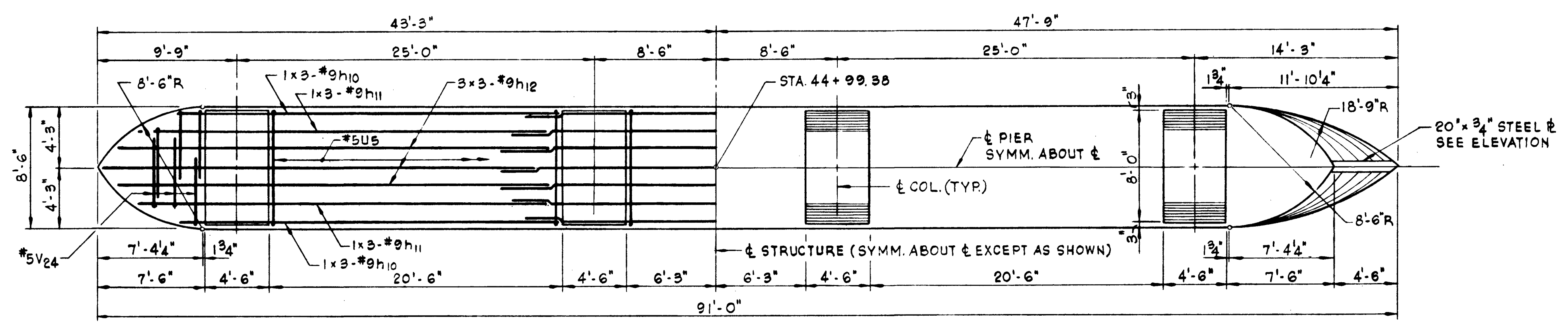
Rev. [ ] S.F.M. 9-21-70



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	57
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		

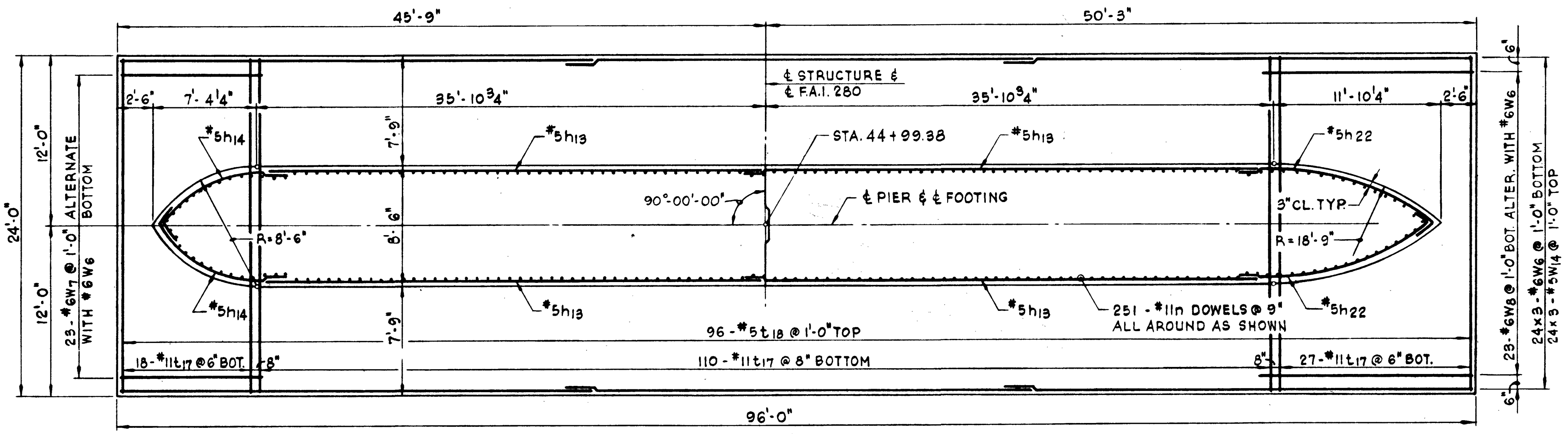


PLAN  
SCALE: 3/16" = 1'-0"

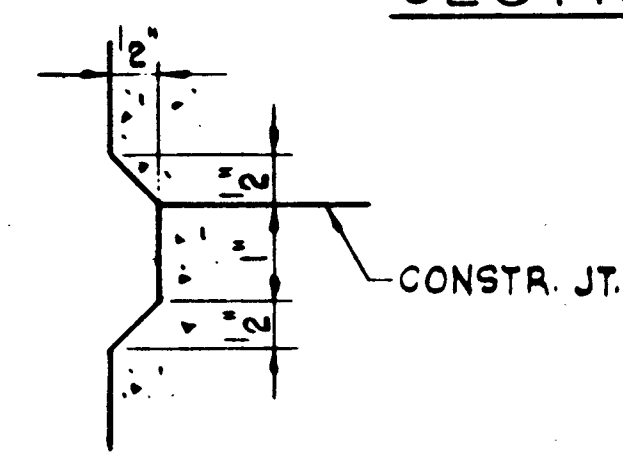


SECTION G-G  
SCALE: 3/16" = 1'-0"

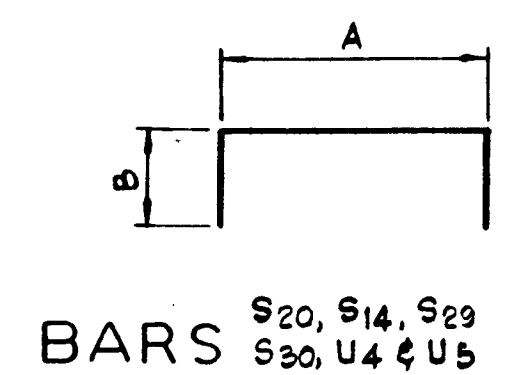
KEY TO BAR INDICATION  
24x9-#6 INDICATES 24 LINES OF #6 BARS WITH 3 LENGTHS PER LINE.



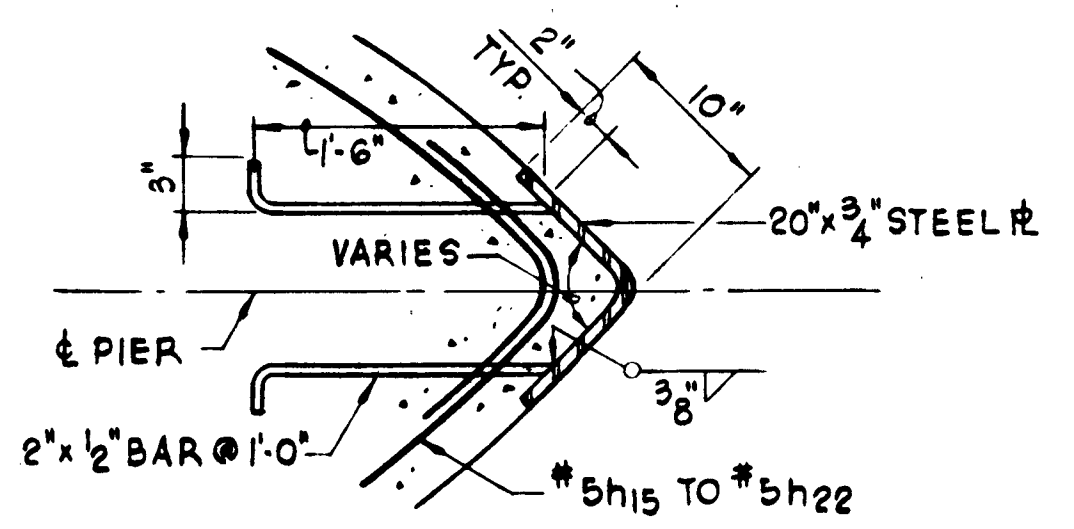
SECTION H-H - FOOTING PLAN  
SCALE: 3/16" = 1'-0"



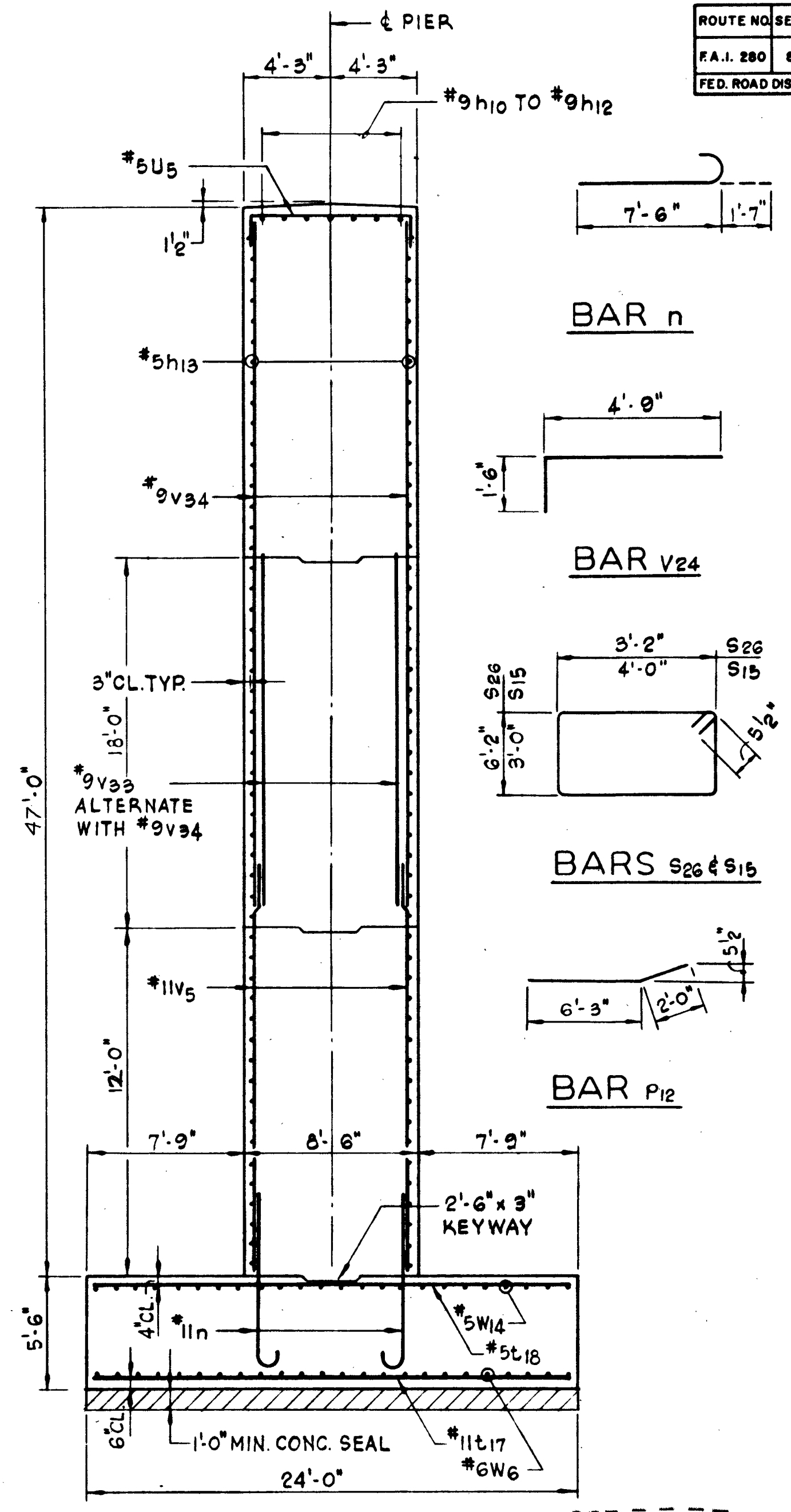
CONSTR. JT. DETAIL  
SCALE: 6" = 1'-0"



BAR	A	B
S20	4'-8"	1'-6"
S14	3'-2"	4'-4"
S29	3'-0"	3'-9"
S30	3'-0"	4'-6"
U4	4'-8"	4'-6"
U5	8'-0"	1'-6"

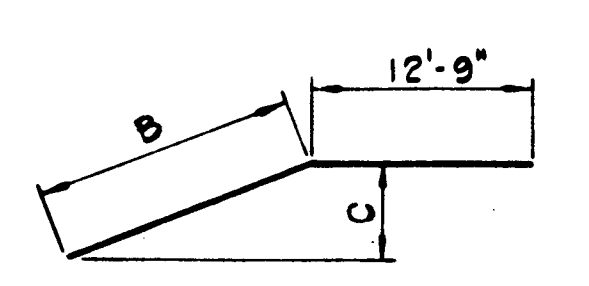


SECTION J-J  
SCALE: 1" = 1'-0"

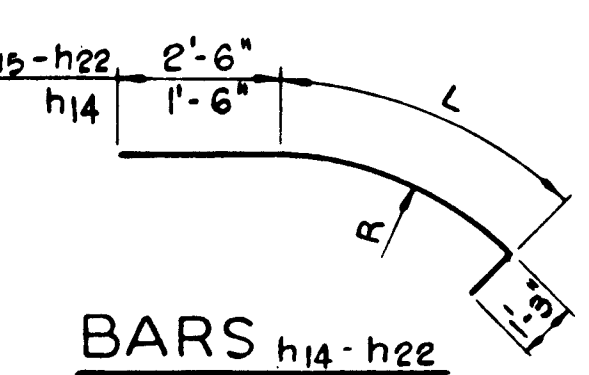


SECTION F-F  
SCALE: 3/16" = 1'-0"

As Revised  
9-21-70



BARS V140-V154



BARS h14-h22

BAR	B	C	BAR	B	C
V140	22'-3"	1'-2"	V147	22'-3"	1'-8"
V141	22'-3"	3"	V148	22'-3"	2'-0"
V142	22'-3"	4"	V149	21'-0"	2'-4"
V143	22'-3"	6"	V150	16'-6"	1'-9"
V144	22'-3"	8'-2"	V151	12'-0"	1'-6"
V145	22'-3"	1'-0"	V152	7'-6"	1'-1"
V146	22'-3"	1'-3"	V153	3'-0"	0'-7"
			V154	22'-9"	4'-6"

BAR	R	L
h14	8'-3"	8'-6"
h15	8'-4 1/2"	8'-8"
h16	9'-5 1/2"	9'-2"
h17	10'-7 1/2"	9'-9"
h18	11'-10 1/4"	10'-2"
h19	13'-2 3/8"	10'-10"
h20	14'-7 1/2"	11'-4"
h21	16'-1 1/2"	11'-10"
h22	18'-6"	12'-8"

BAR LIST				
BAR	NO	SIZE	LENGTH	SHAPE
h	16	6	36'-0"	—
h10	6	9	26'-6"	—
h11	6	9	29'-0"	—
h12	9	9	30'-6"	—
h13	204	5	36'-0"	—
h14	104	5	11'-3"	—
h15	6	5	12'-5"	—
h16	6	5	12'-11"	—
h17	6	5	13'-6"	—
h18	6	5	14'-0"	—
h19	6	5	14'-7"	—
h20	6	5	15'-1"	—
h21	6	5	15'-7"	—
h22	62	5	16'-5"	—
n	355	11	9'-1"	—
p	16	11	41'-6"	—
p1	4	11	21'-0"	—
p2	16	11	29'-0"	—
p3	8	6	16'-0"	—
p12	20	8	8'-3"	—
s20	22	5	7'-8"	—
s26	108	5	19'-7"	—
s14	112	5	11'-10"	—
s15	112	5	14'-11"	—
s29	224	5	10'-6"	—
s30	224	5	12'-0"	—
t17	155	11	23'-6"	—
t18	96	5	23'-6"	—
u4	16	6	13'-8"	—
u5	39	5	11'-0"	—
v5	251	11	19'-9"	—
v10	32	11	17'-3"	—
v24	12	5	6'-3"	—
v32	72	11	32'-0"	—
v33	110	9	18'-0"	—
v34	112	9	35'-0"	—
v140	2	9	35'-0"	—
v141	2	9	35'-0"	—
v142	2	9	35'-0"	—
v143	2	9	35'-0"	—
v144	2	9	35'-0"	—
v145	2	9	35'-0"	—
v146	2	9	35'-0"	—
v147	2	9	35'-0"	—
v148	2	9	35'-0"	—
v149	2	9	33'-9"	—
v150	2	9	29'-3"	—
v151	2	9	24'-9"	—
v152	2	9	20'-3"	—
v153	2	9	15'-9"	—
v154	1	9	35'-6"	—
w6	72	6	33'-0"	—
w7	23	6	10'-0"	—
w8	23	6	15'-0"	—
w14	72	5	32'-9"	—

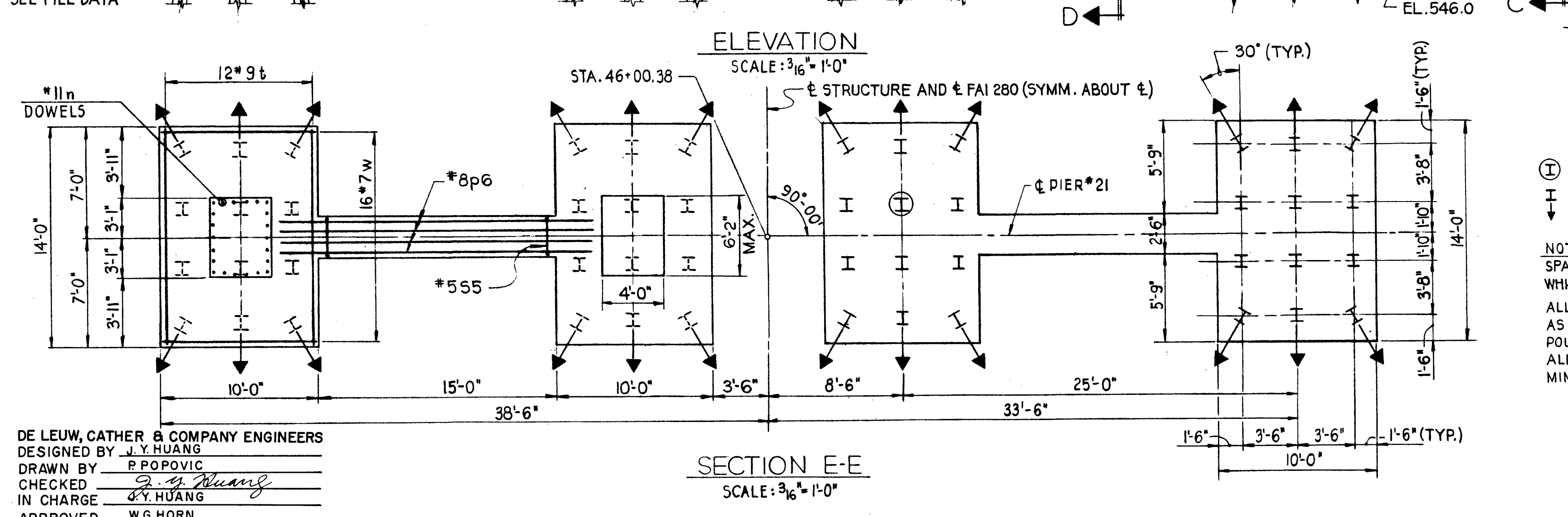
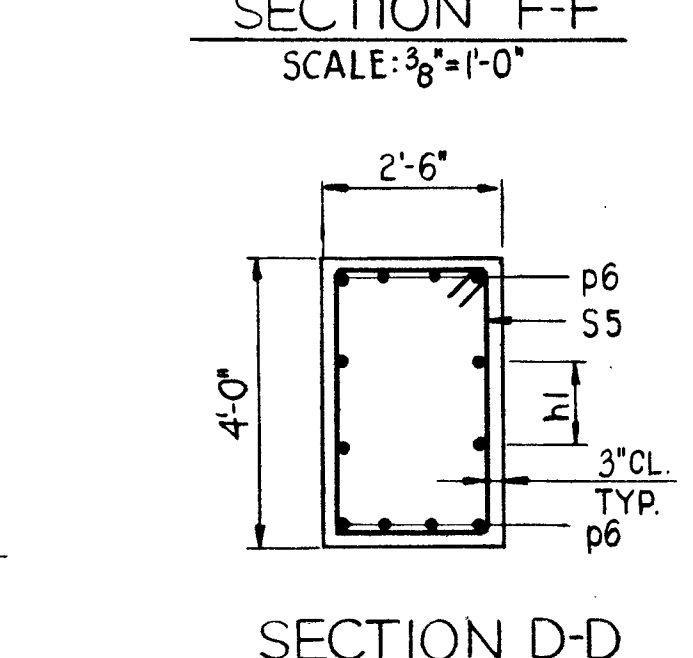
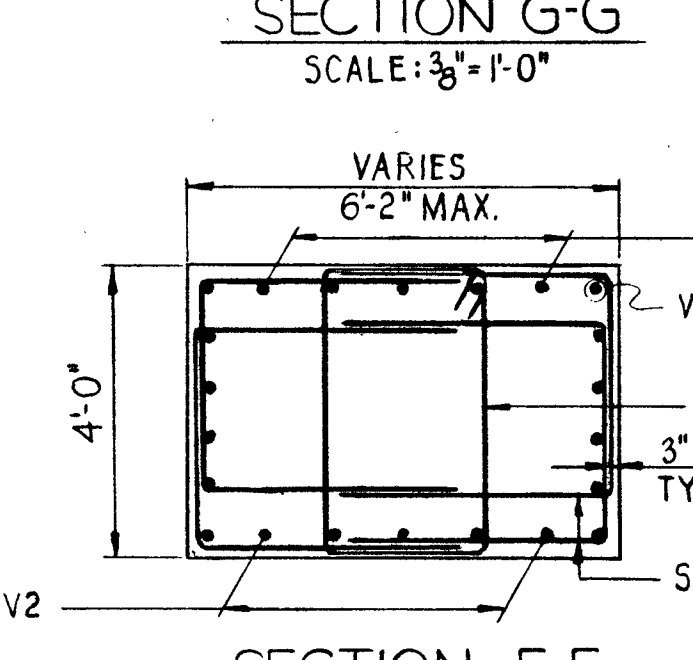
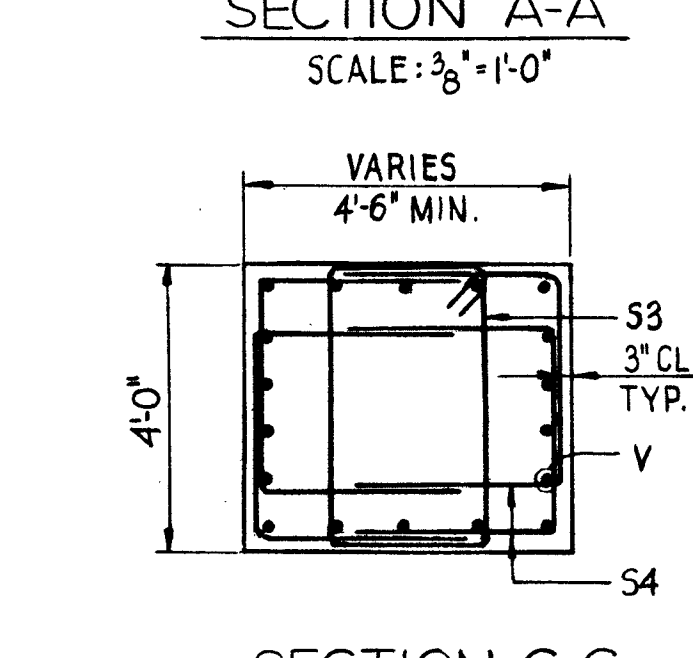
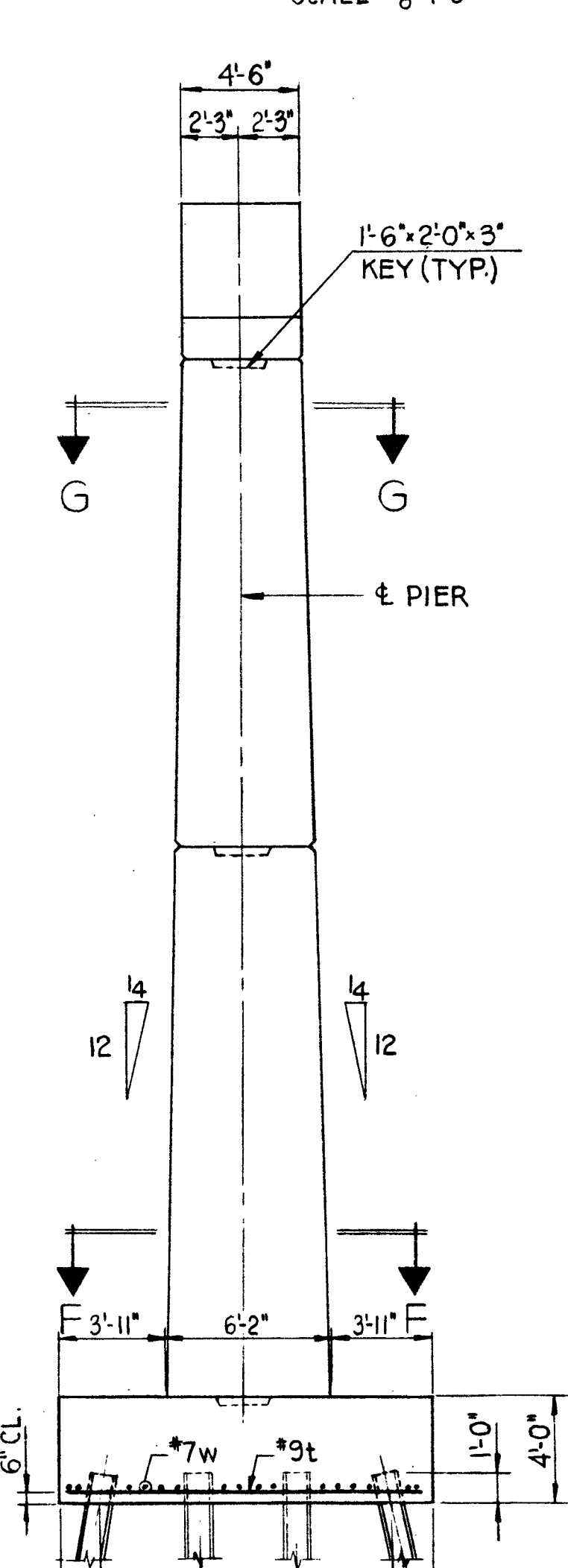
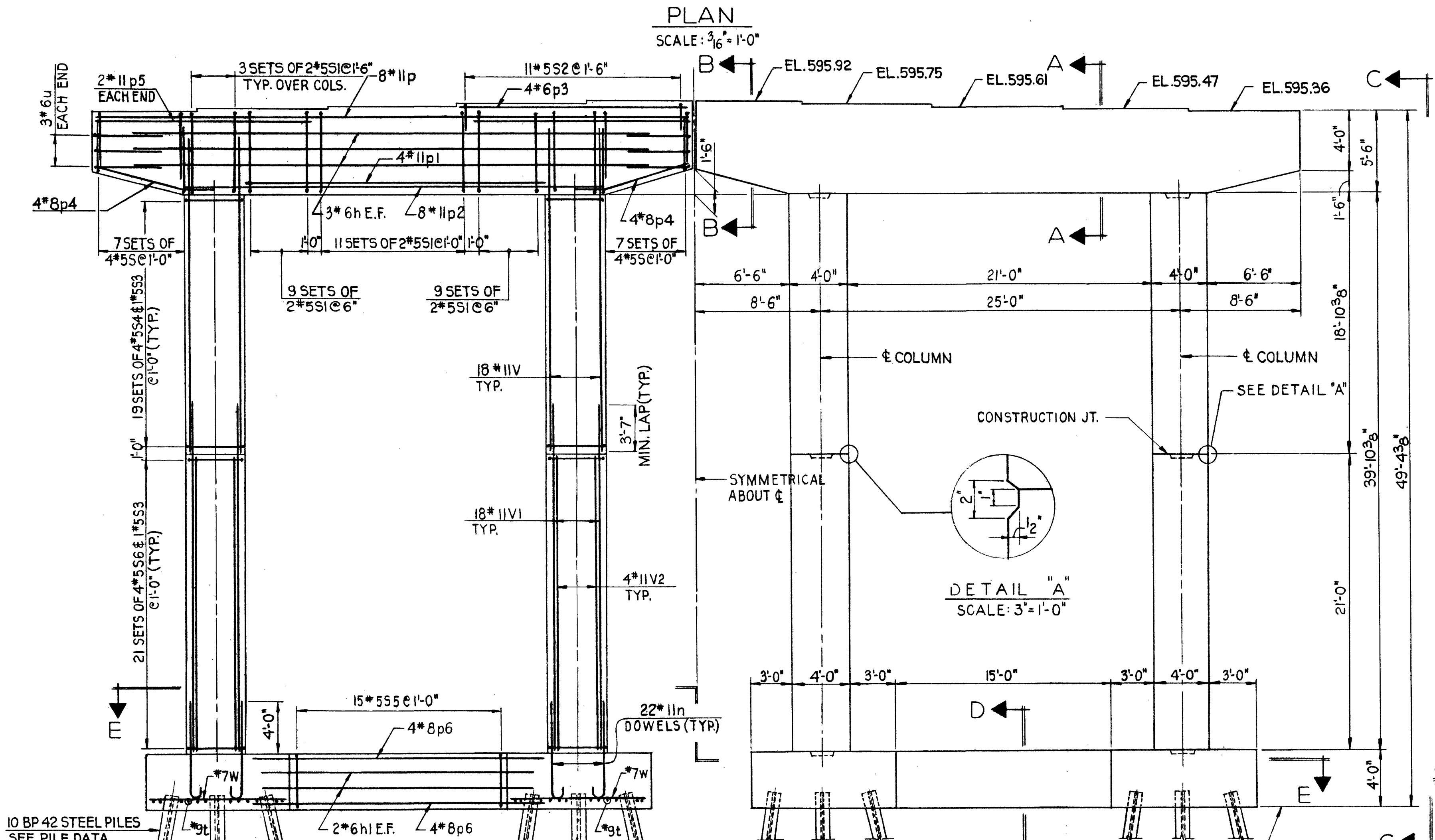
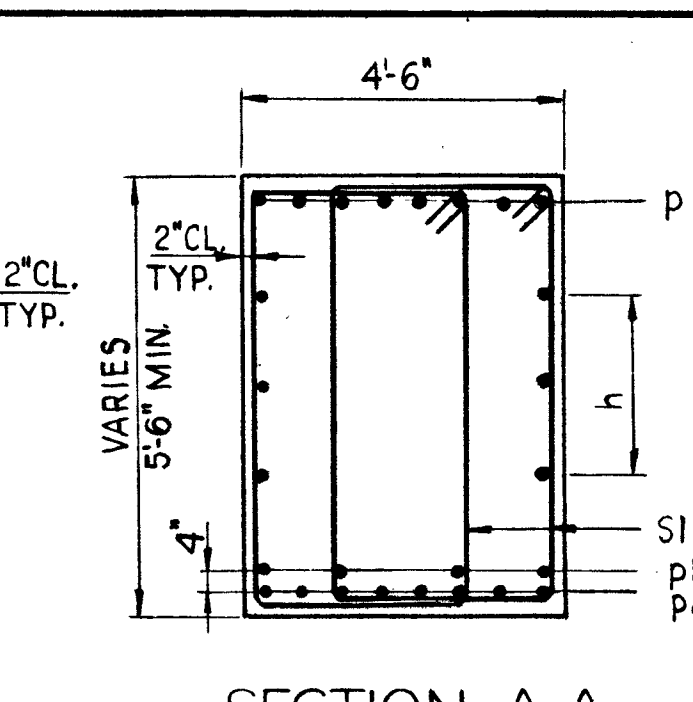
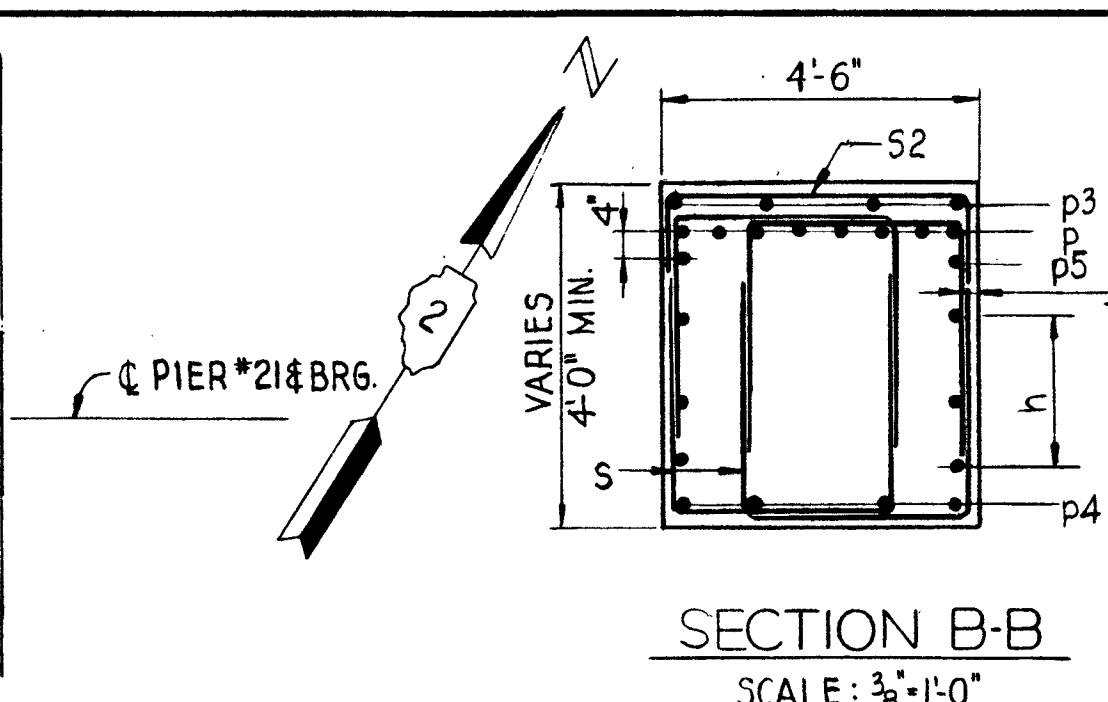
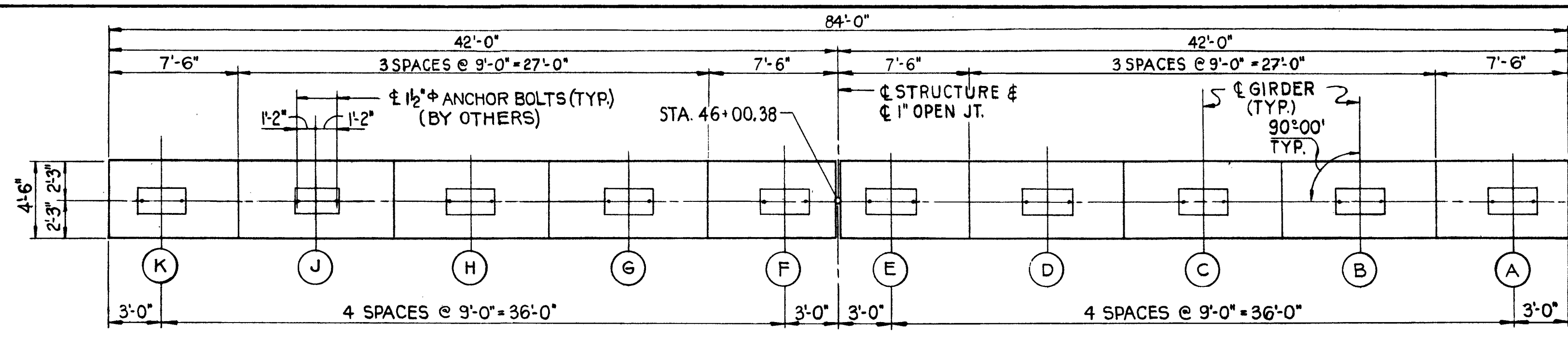
NOTE:  
WORK THIS SHEET WITH SH. 56

PIER 20  
CAP, WALL & FOOTING  
F.A.I. ROUTE 280 SECTION 81-18  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

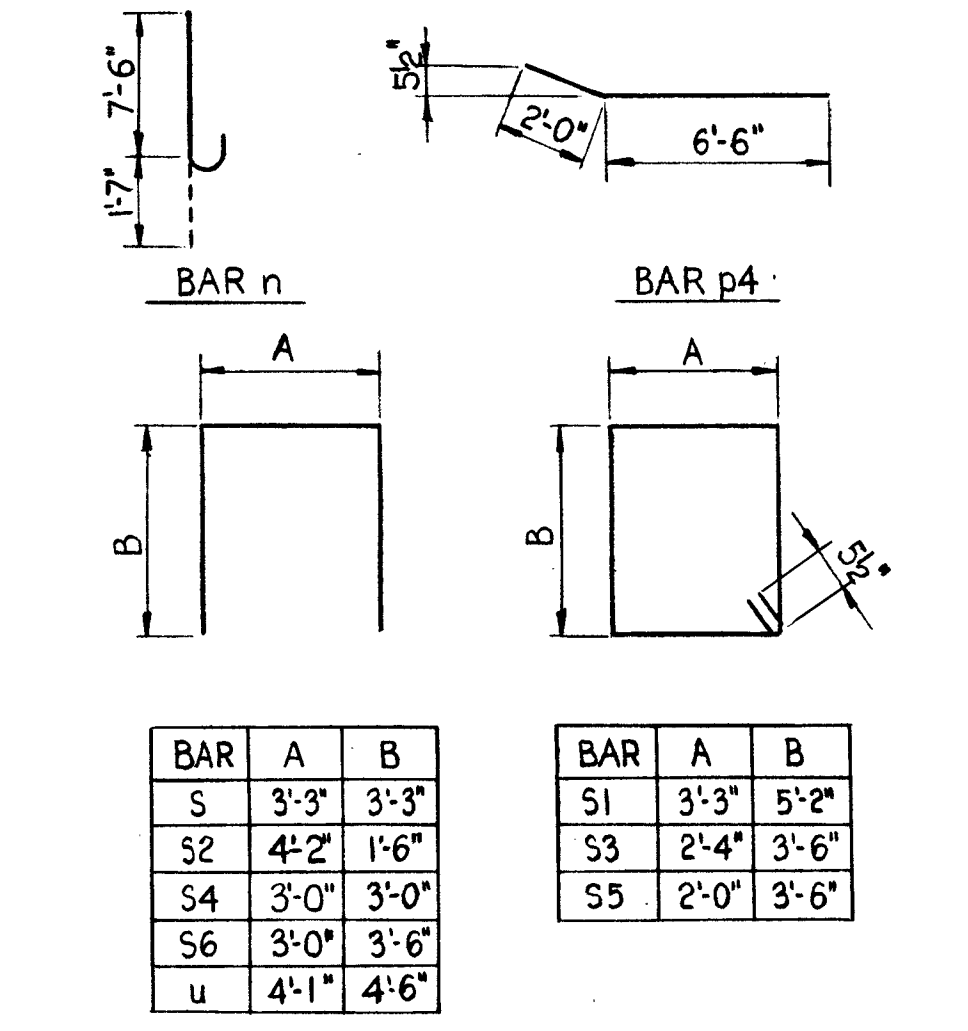
DE LEUW, CATHY & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY J. N. LESLIE  
CHECKED J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

Rev. [ ] S.F.M. 9-21-70

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY IOWA ROCK ISLAND COUNTY, ILL.	67	58
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	12	6	36'-0"	—
hl	8	6	18'-0"	—
n	88	11	9'-1"	—
p	16	11	41'-6"	—
p1	8	11	21'-0"	—
p2	16	11	29'-0"	—
p3	8	6	16'-0"	—
p4	16	8	8'-6"	—
p5	8	11	15'-0"	—
p6	16	8	19'-0"	—
s	112	5	9'-9"	—
s1	140	5	17'-9"	—
s2	22	5	7'-2"	—
s3	160	5	12'-7"	—
s4	304	5	9'-0"	—
s5	30	5	12'-0"	—
s6	336	5	10'-0"	—
t	48	9	13'-6"	—
u	12	6	13'-1"	—
v	72	11	23'-0"	—
v1	72	11	25'-0"	—
v2	16	11	20'-9"	—
w	64	7	9'-6"	—



BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU.YD.	281
CLASS X CONCRETE	CU.YD.	297.4
REINFORCEMENT BARS	POUND	50,560
FURNISH STEEL PILES 10BP42	LIN.FT.	1,833
TEST PILE STEEL (10BP42)	EACH	1
DRIVING STEEL PILES	LIN.FT.	1,833

PILE DATA	
PILE TYPE	10BP42
DESIGN CAPACITY, TONS	50
NUMBER REQUIRED*	48
ESTIMATED LENGTH, FEET	39'
CUT OFF ELEVATION	547.0

\* INCLUDING 1 TEST PILE

⊕ DENOTES TEST PILE  
⊥ DENOTES BATTERED PILE

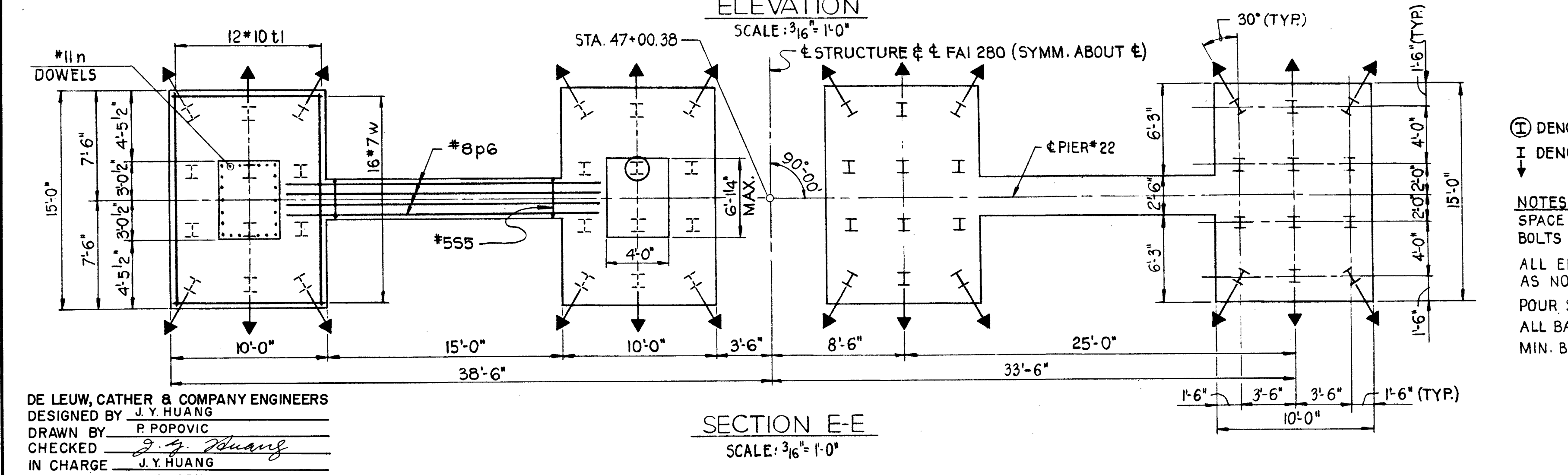
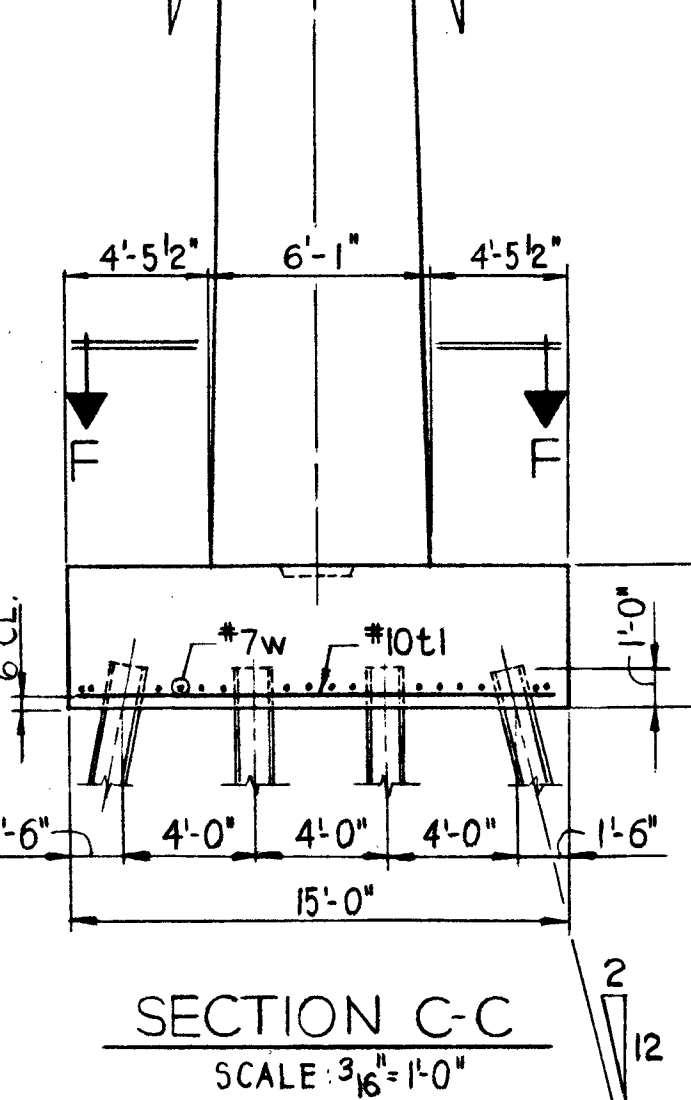
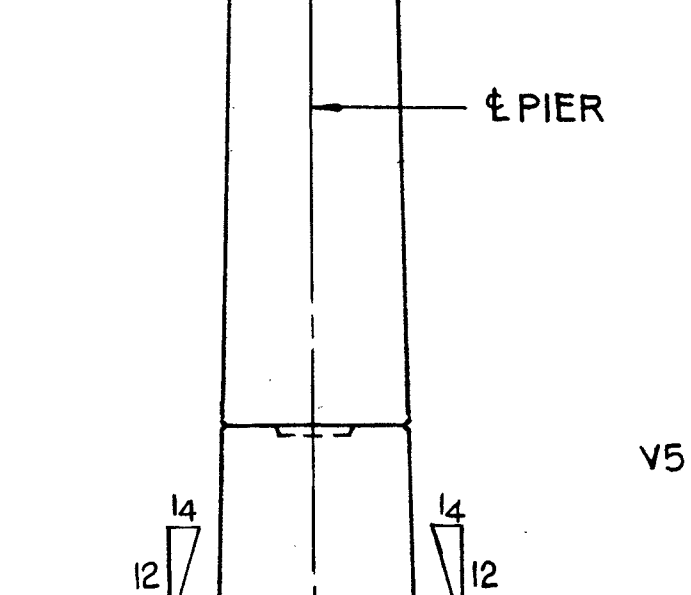
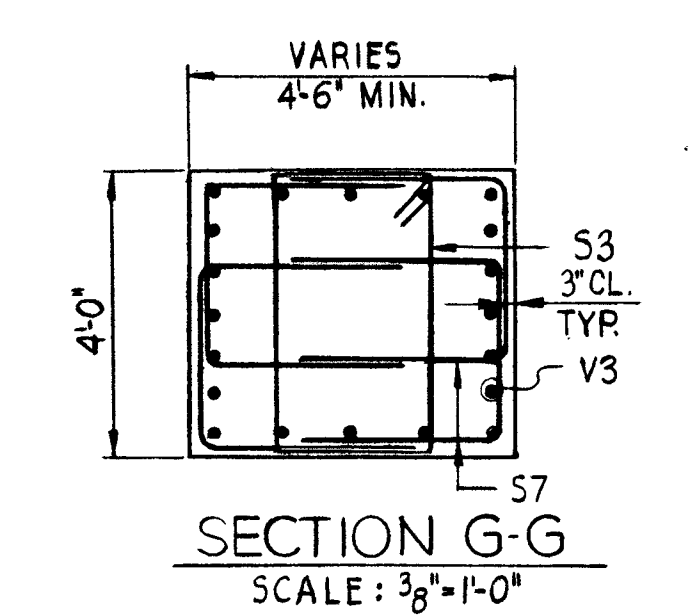
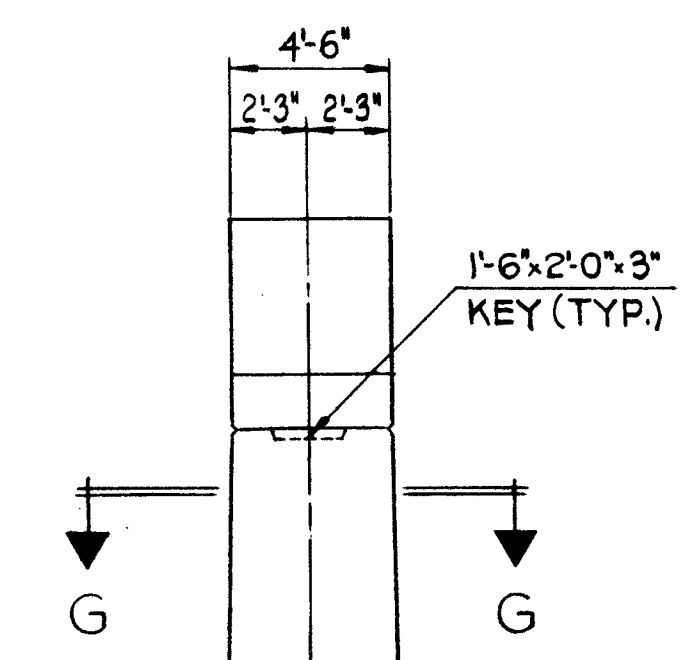
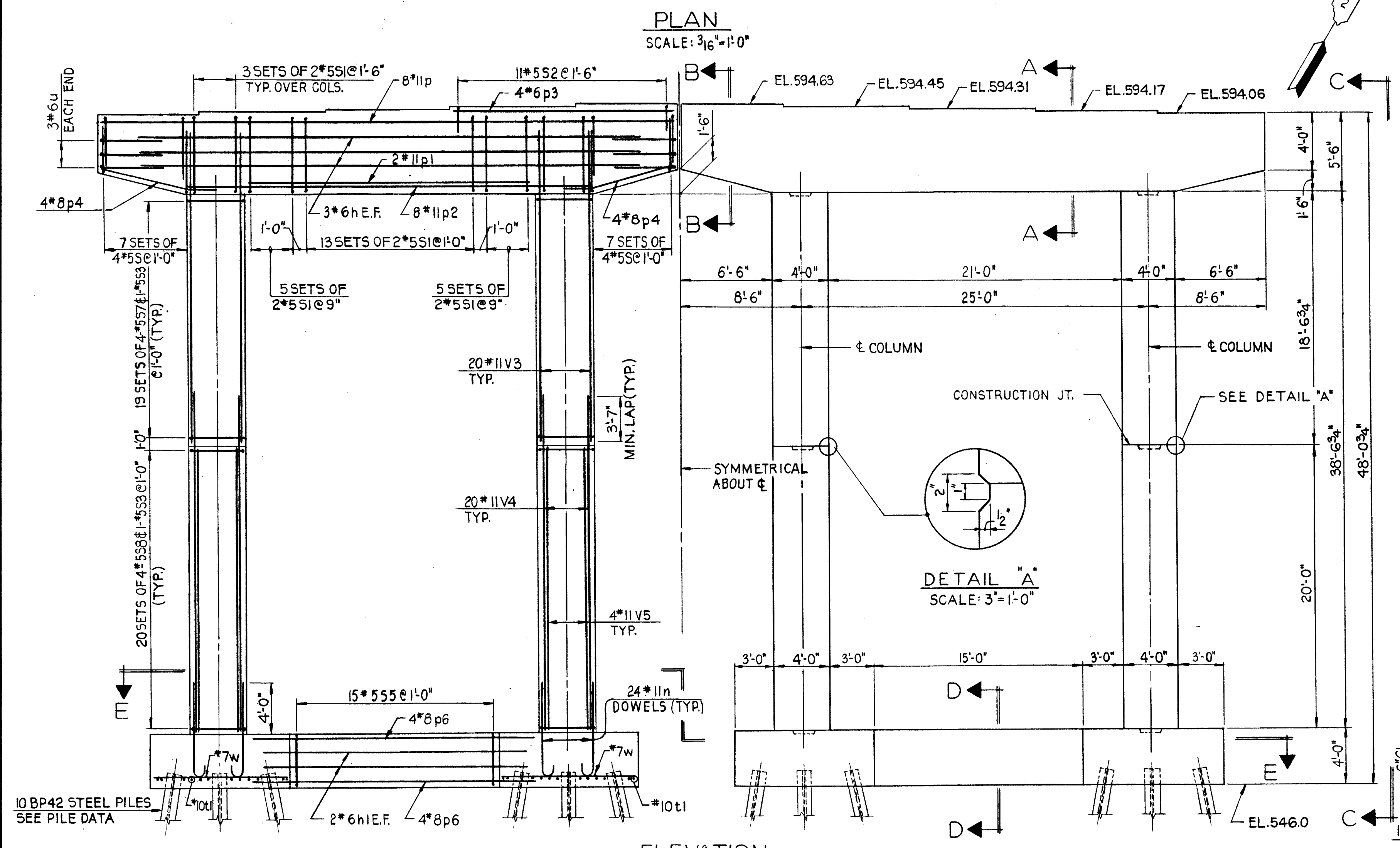
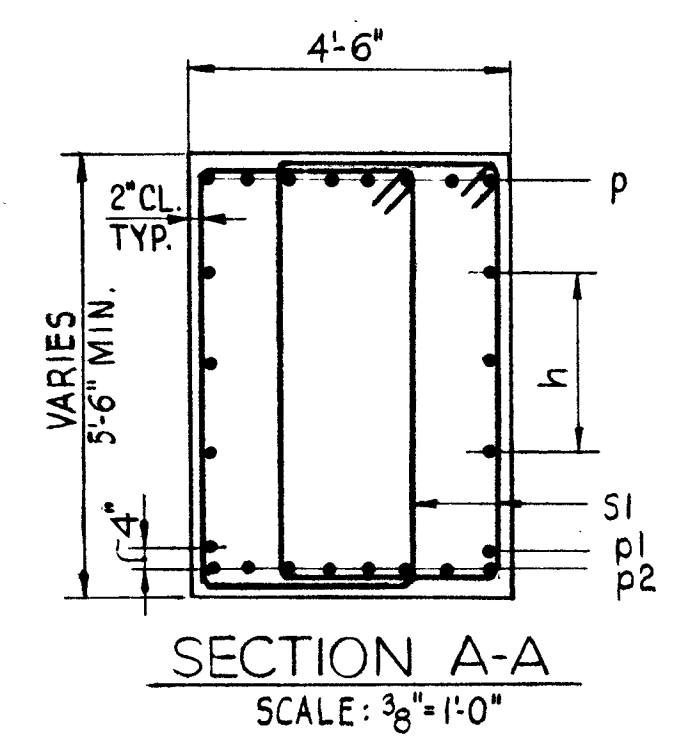
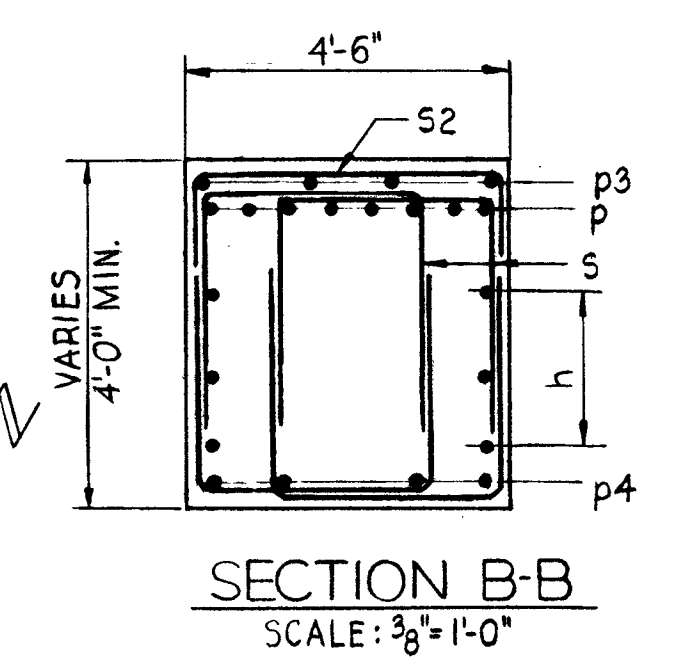
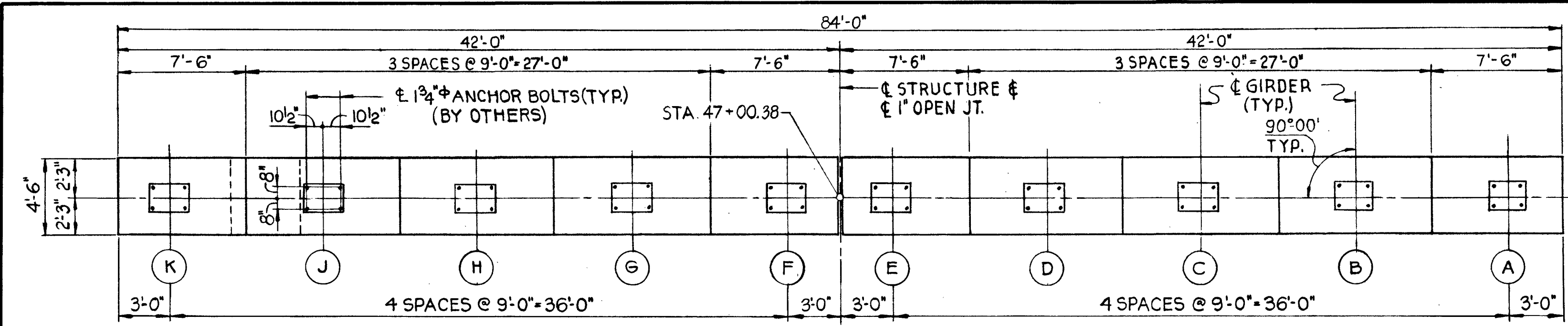
NOTES:  
SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS WHICH SHALL BE FURNISHED AND SET BY OTHERS.  
ALL EDGES TO HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.  
POUR STEPS MONOLITHICALLY WITH CAP.  
ALL BAR DIMENSIONS ARE OUT TO OUT.  
MIN. BAR LAP-24 DIA. UNLESS OTHERWISE NOTED.

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY J. Y. HUANG  
DRAWN BY P. POPOVIC  
CHECKED BY J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

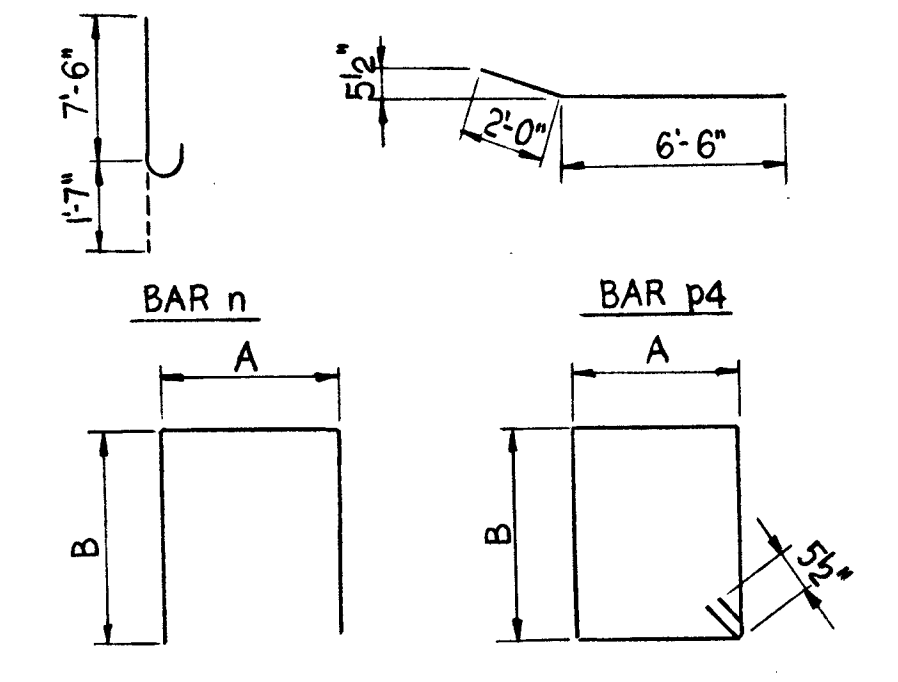
PIER 21  
F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 0.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	59
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	12	6	36'-0"	—
h1	8	6	18'-0"	—
n	96	11	9'-1"	—
p	16	11	41'-6"	—
p1	4	11	21'-0"	—
p2	16	11	29'-0"	—
p3	8	6	16'-0"	—
p4	16	8	8'-6"	—
p6	16	8	19'-0"	—
s	112	5	9'-9"	—
s1	116	5	17'-9"	—
s2	22	5	7'-2"	—
s3	156	5	12'-7"	—
s7	304	5	8'-6"	—
s5	30	5	12'-0"	—
s8	320	5	9'-6"	—
t1	48	10	14'-6"	—
u	12	6	13'-1"	—
v3	80	11	22'-6"	—
v4	80	11	24'-0"	—
v5	16	11	19'-9"	—
w	64	7	9'-6"	—



BAR	A	B
s	3'-3"	3'-3"
s1	3'-3"	5'-2"
s3	2'-4"	3'-6"
s5	2'-0"	3'-6"
u	4'-1"	4'-6"

PILE DATA	
PILE TYPE	10 BP 42
DESIGN CAPACITY, TONS	50
NUMBER REQUIRED*	48
ESTIMATED LENGTH, FEET	40
CUT OFF ELEVATION	547.0

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU.YD.	243
CLASS X CONCRETE	CU.YD.	298.9
REINFORCEMENT BARS	POUND	50,910
FURNISH STEEL PILES 10BP42	LIN.FT.	1,880
TEST PILE STEEL (10BP42)	EACH	1
DRIVING STEEL PILES	LIN.FT.	1,880

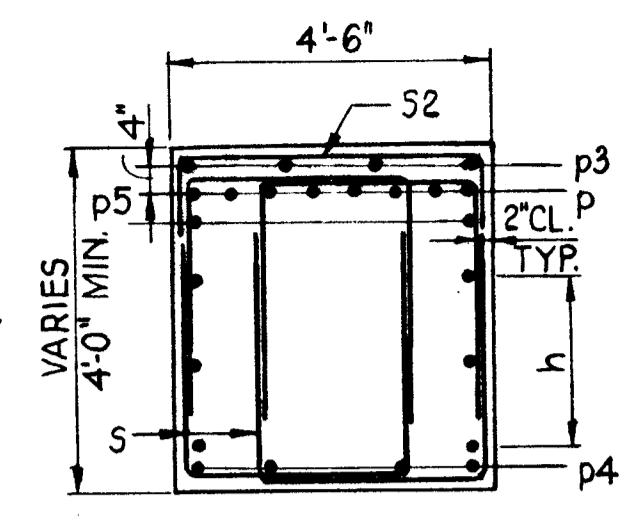
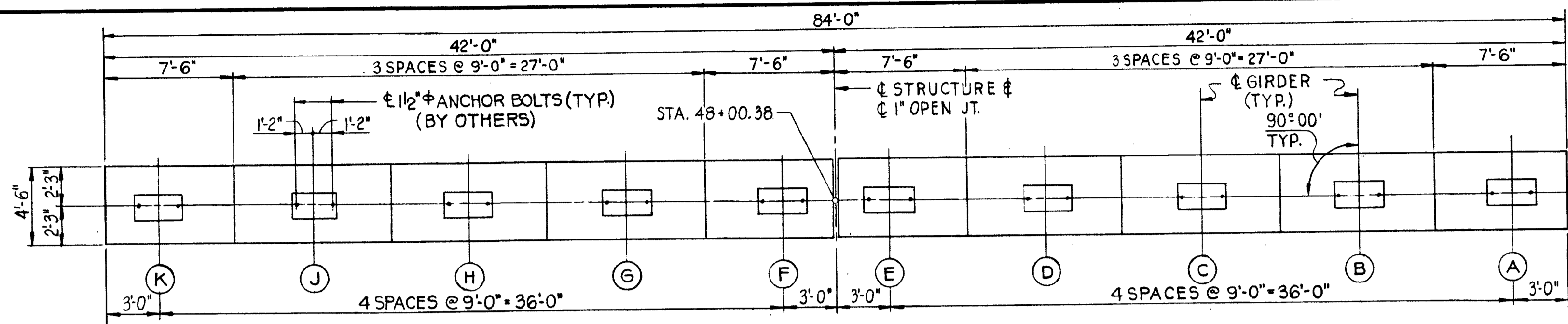
⊕ DENOTES TEST PILE  
 ↓ DENOTES BATTERED PILE

NOTES:  
 SPACE REINFORCEMENT IN GAP TO CLEAR ANCHOR BOLTS WHICH SHALL BE FURNISHED & SET BY OTHERS.  
 ALL EDGES TO HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.  
 POUR STEPS MONOLITHICALLY WITH CAP.  
 ALL BAR DIMENSIONS ARE OUT TO OUT.  
 MIN. BAR LAP - 24 DIA. UNLESS OTHERWISE NOTED.

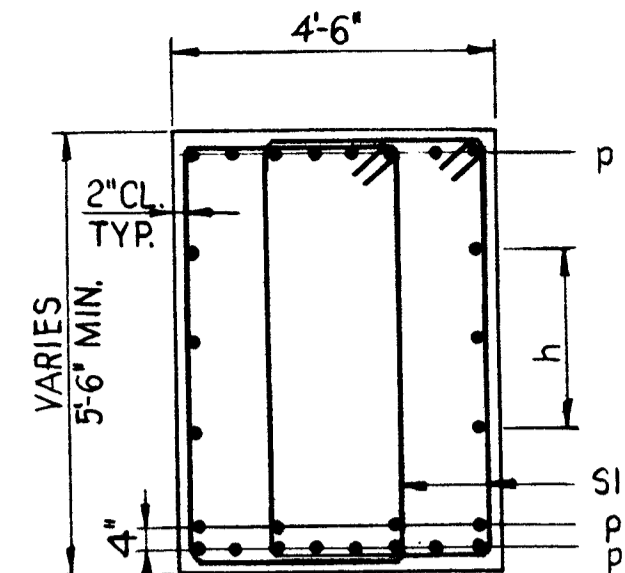
DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY J.Y. HUANG  
 DRAWN BY P. POPOVIC  
 CHECKED BY J.Y. HUANG  
 IN CHARGE J.Y. HUANG  
 APPROVED W.G. HORN

PIER 22  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

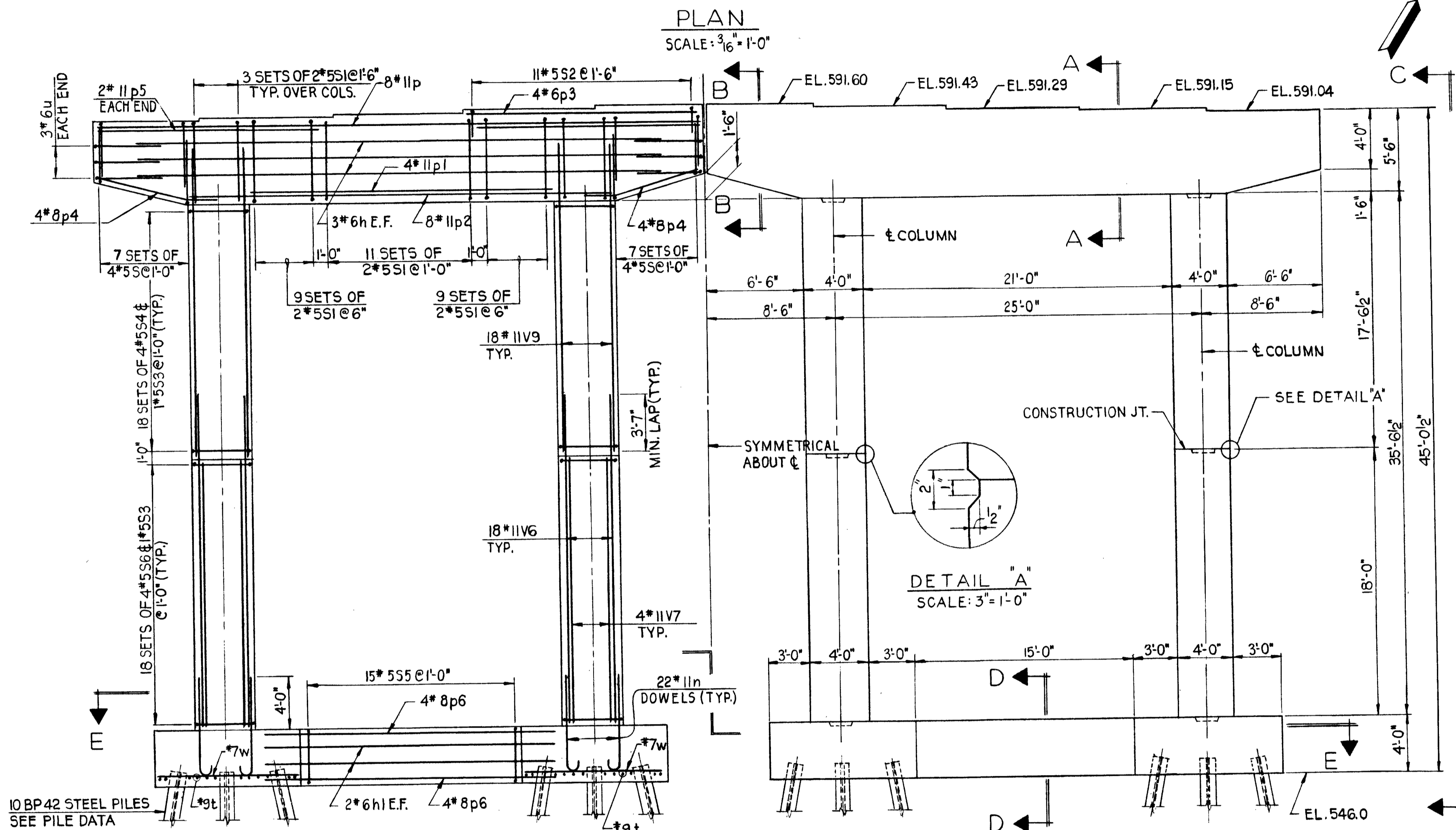
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	60
FED. ROAD DIST. NO.		FED. AID PROJECT 1-280		



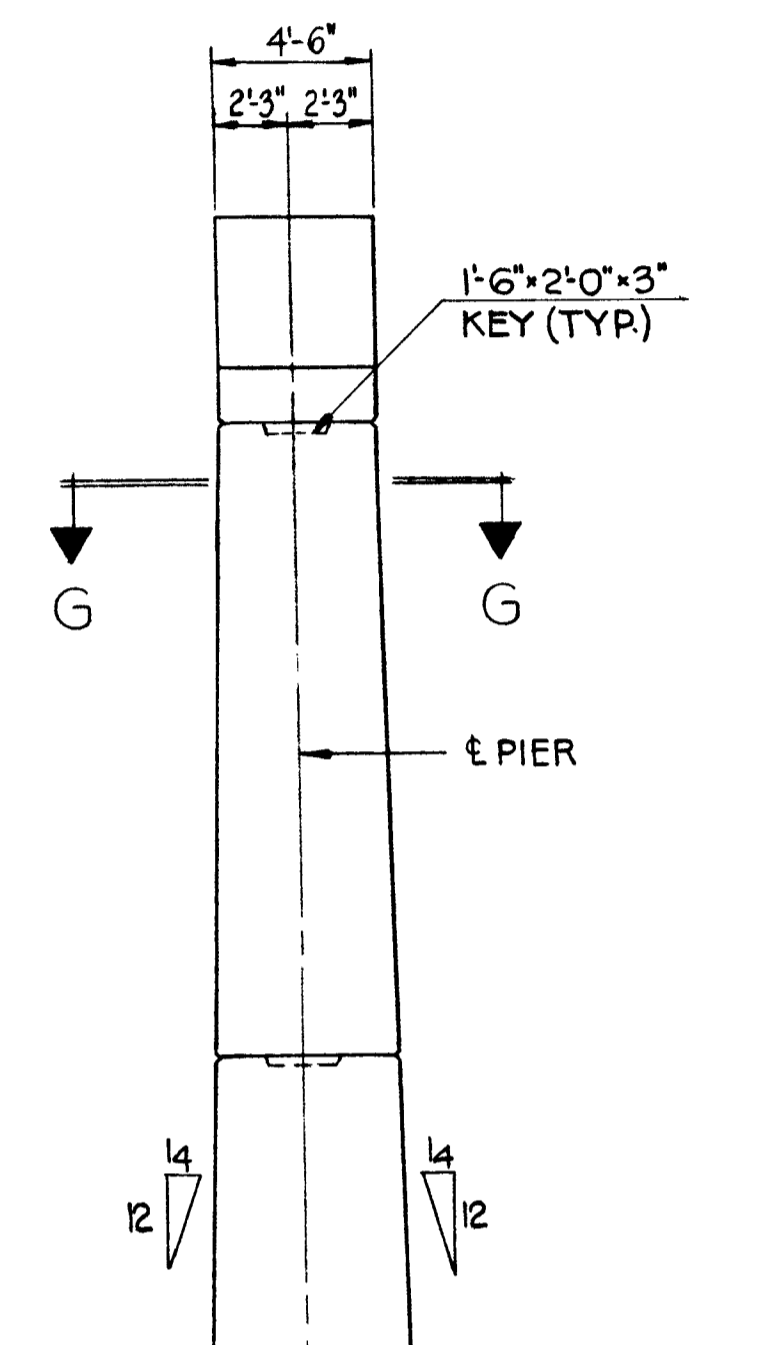
SECTION B-B  
SCALE: 3/8"=1'-0"



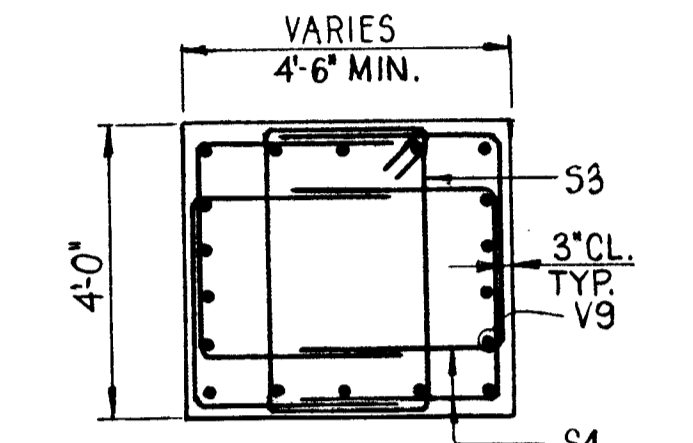
SECTION A-A  
SCALE: 3/8"=1'-0"



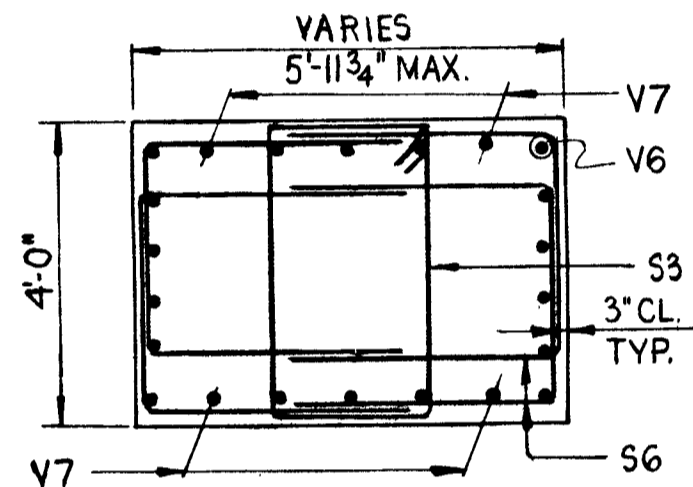
ELEVATION  
SCALE: 3/16"=1'-0"



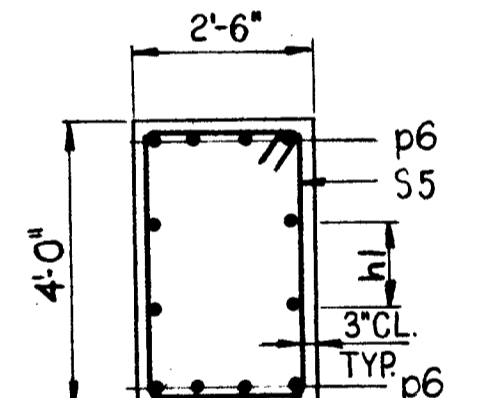
SECTION C-C  
SCALE: 3/16"=1'-0"



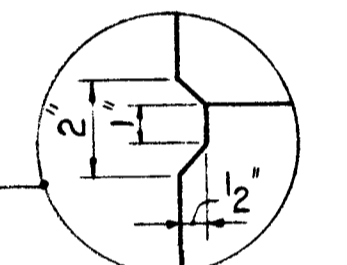
SECTION G-G  
SCALE: 3/8"=1'-0"



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

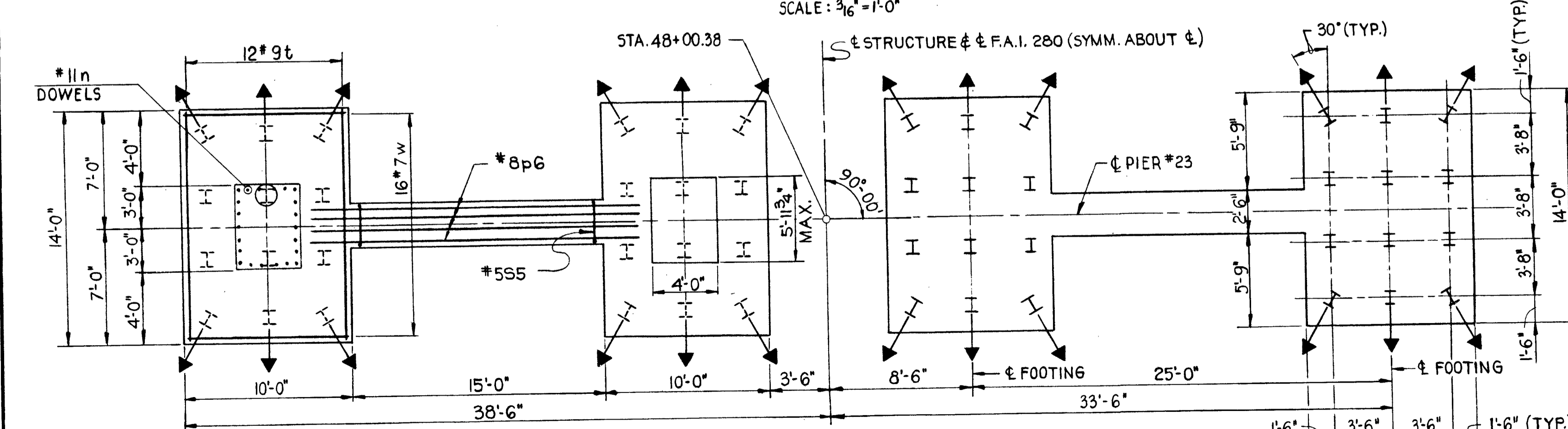
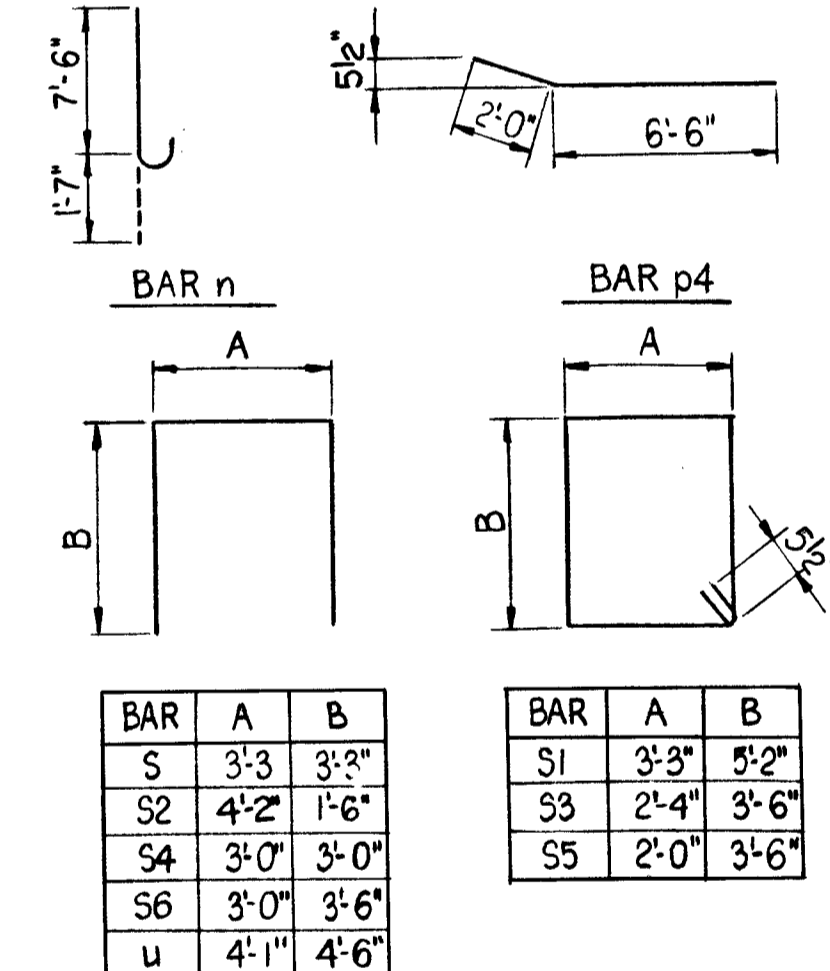


SECTION D-D  
SCALE: 3/8"=1'-0"



DETAIL A  
SCALE: 3"=1'-0"

BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	12	6	36'-0"	—
h1	8	6	18'-0"	—
n	88	11	9'-1"	—
p	16	11	41'-6"	—
p1	8	11	21'-0"	—
p2	16	11	29'-0"	—
p3	8	6	16'-0"	—
p4	16	8	8'-6"	—
p5	8	11	15'-0"	—
p6	16	8	19'-0"	—
s	112	5	9'-9"	—
s1	140	5	17'-9"	—
s2	22	5	7'-2"	—
s3	144	5	12'-7"	—
s4	288	5	9'-0"	—
s5	30	5	12'-0"	—
s6	288	5	10'-0"	—
t	48	9	13'-6"	—
u	12	6	13'-1"	—
v9	72	11	21'-6"	—
v6	72	11	22'-0"	—
v7	16	11	17'-9"	—
w	64	7	9'-6"	—



SECTION E-E  
SCALE: 3/16"=1'-0"

⊕ DENOTES TEST PILE  
⊕ DENOTES BATTERED PILE

NOTES:  
SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS WHICH SHALL BE FURNISHED AND SET BY OTHERS. ALL EDGES TO HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.  
POUR STEPS MONOLITHICALLY WITH CAP. ALL BAR DIMENSIONS ARE OUT TO OUT. MIN. BAR LAP - 24 DIA. UNLESS OTHERWISE NOTED.

PILE DATA	
PILE TYPE	10 BP 42
DESIGN CAPACITY, TON	50
NUMBER REQUIRED*	48
ESTIMATED LENGTH, FEET	42
CUT OFF ELEVATION	547.0

\* INCLUDING 1 TEST PILE

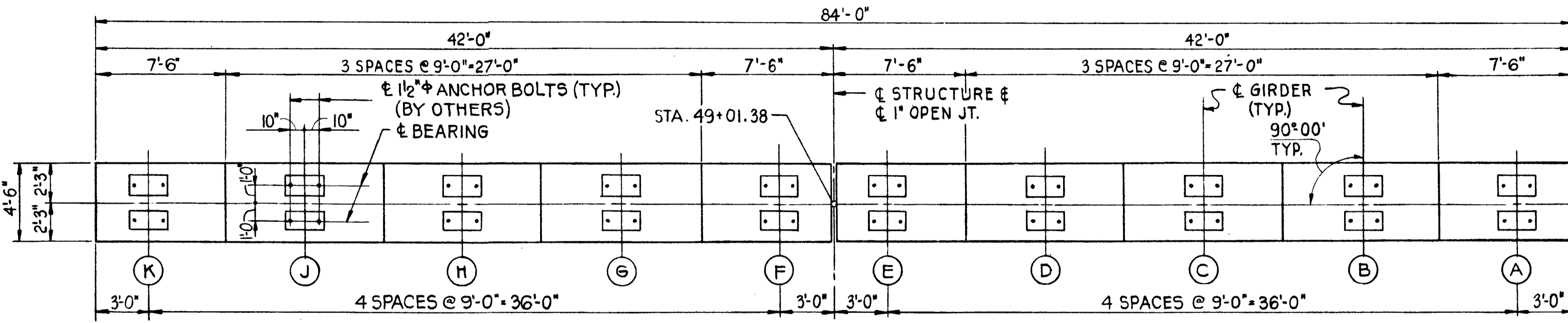
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU. YD.	237
CLASS X CONCRETE	CU. YD.	282.1
REINFORCEMENT BARS	POUND	47,700
FURNISH STEEL PILES (10BP42)	LIN. FT.	1,974
TEST PILE STEEL (10BP42)	EACH	1
DRIVING STEEL PILES	LIN. FT.	1,974

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY J. Y. HUANG  
DRAWN BY P. POPOVIC  
CHECKED J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W. G. HORN

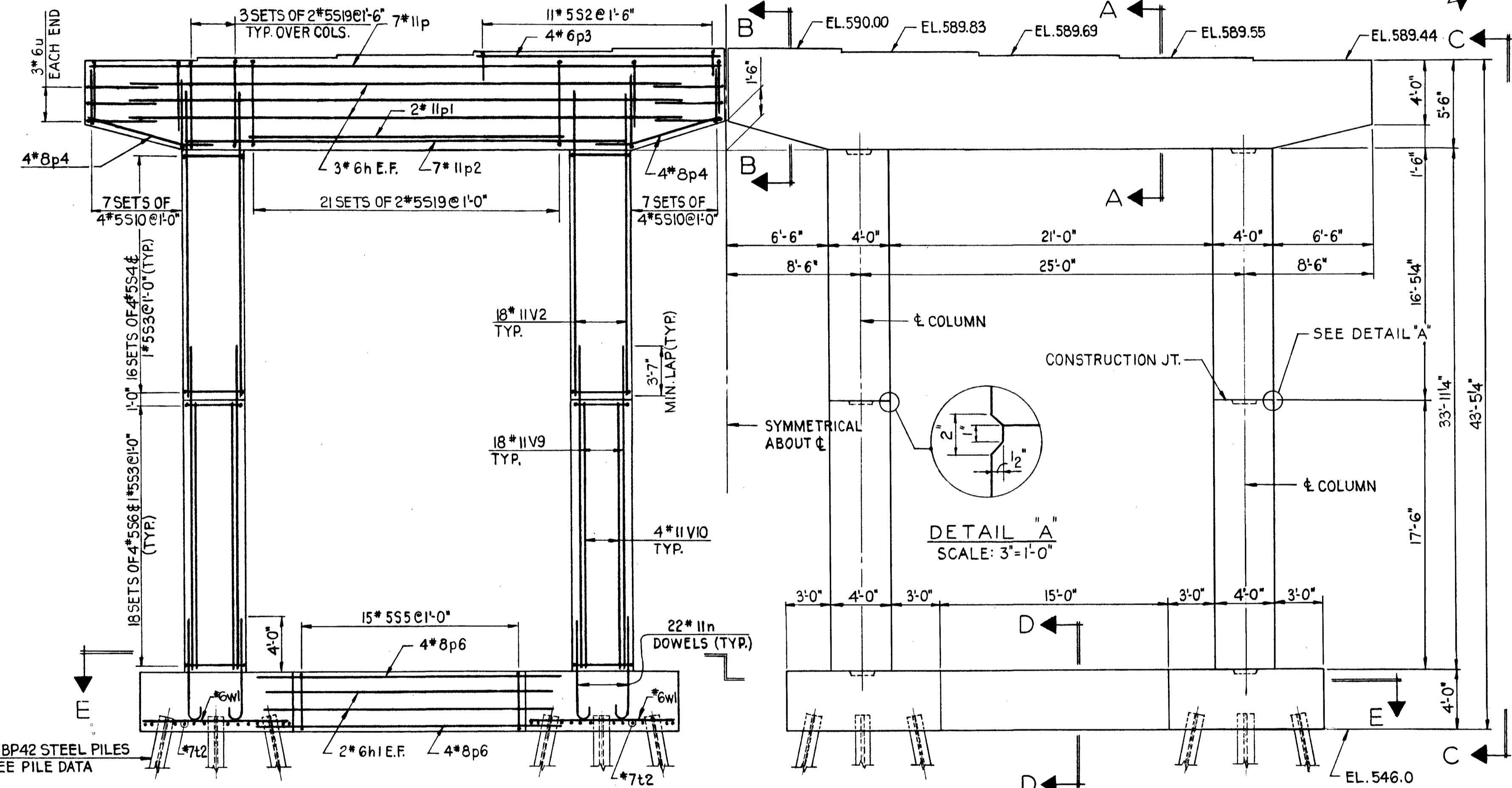
**PIER 23**  
F.A.I. ROUTE 280 SECTION 81-1B  
1-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969



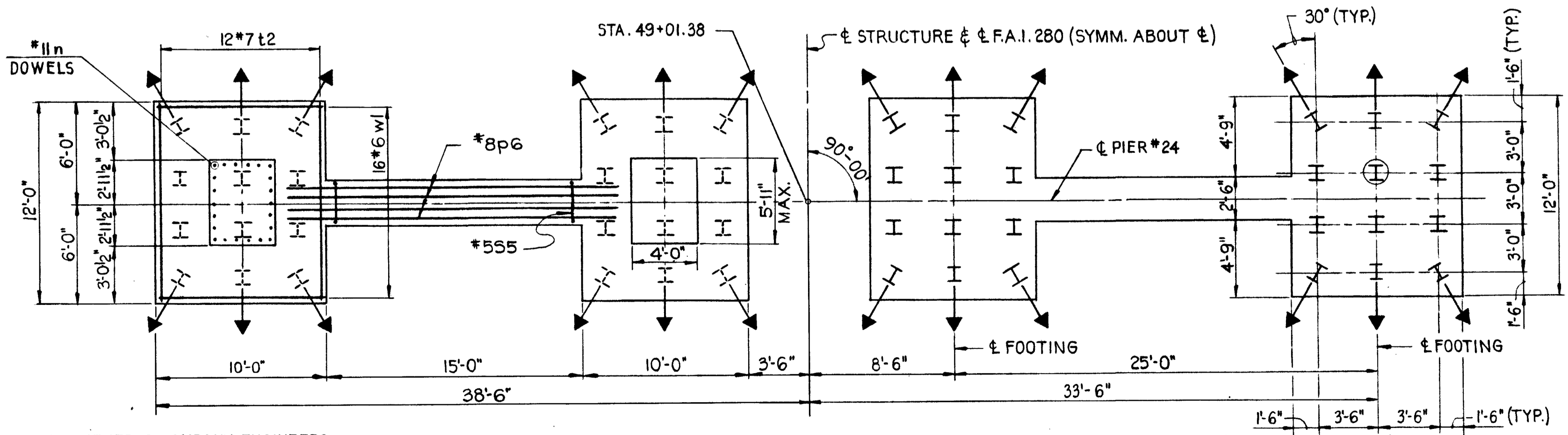
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	61
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



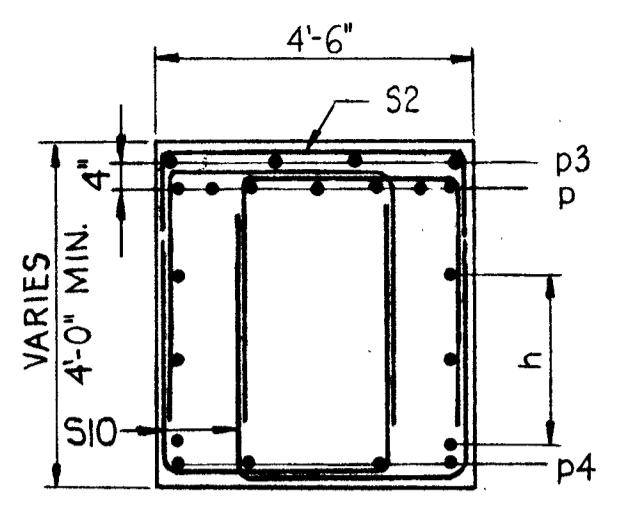
PLAN  
SCALE: 3/16"=1'-0"



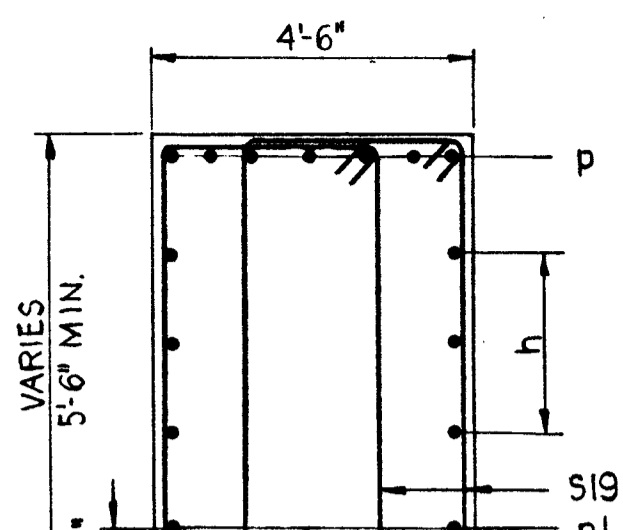
ELEVATION  
SCALE: 3/16"=1'-0"



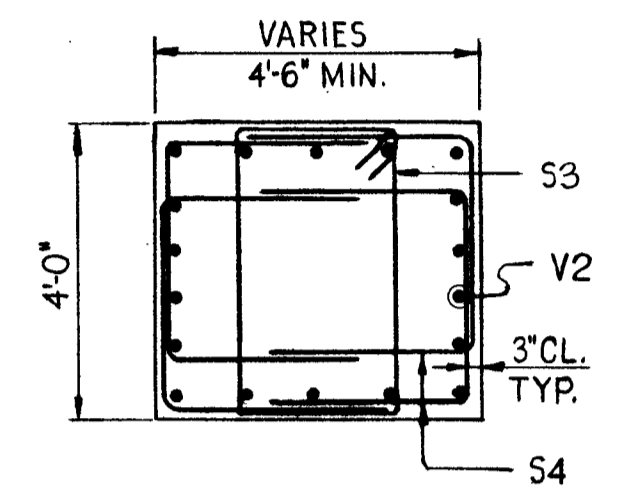
SECTION E-E  
SCALE: 3/16"=1'-0"



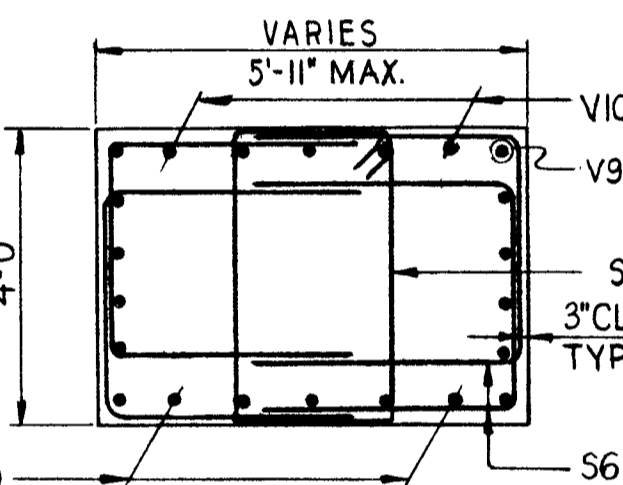
SECTION B-B  
SCALE: 3/8"=1'-0"



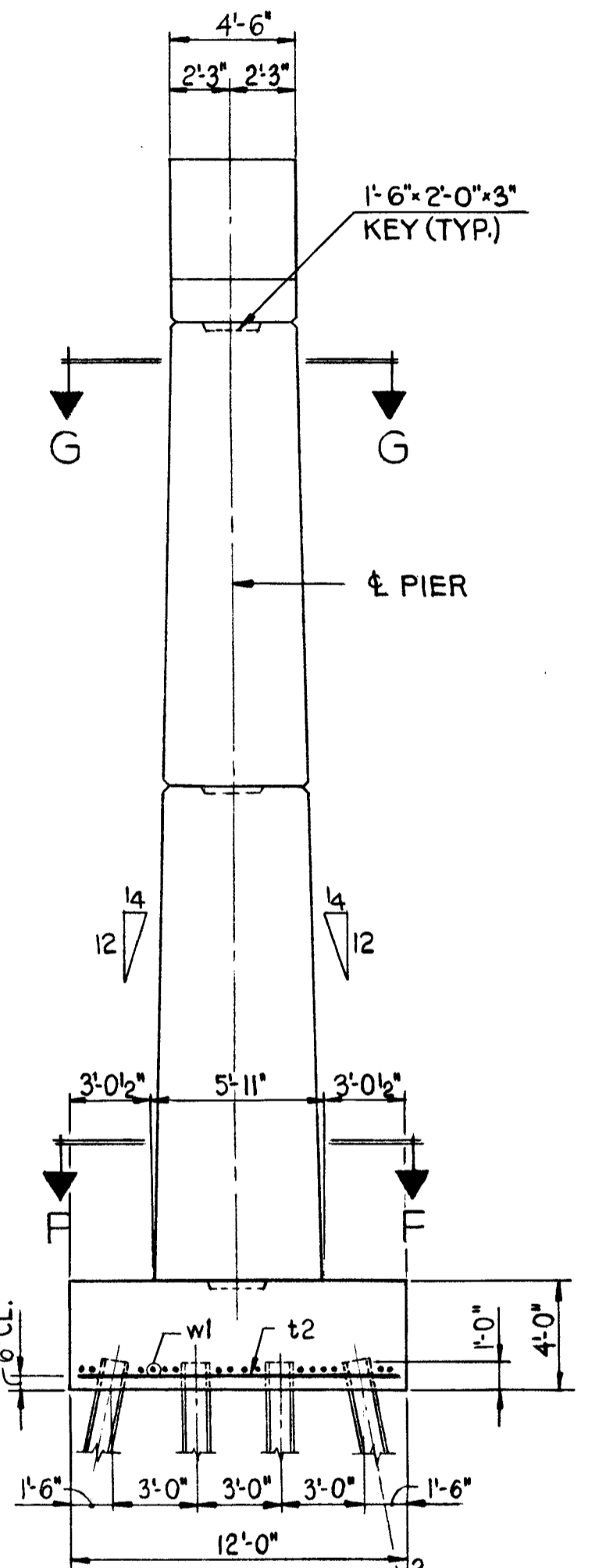
SECTION A-A  
SCALE: 3/8"=1'-0"



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

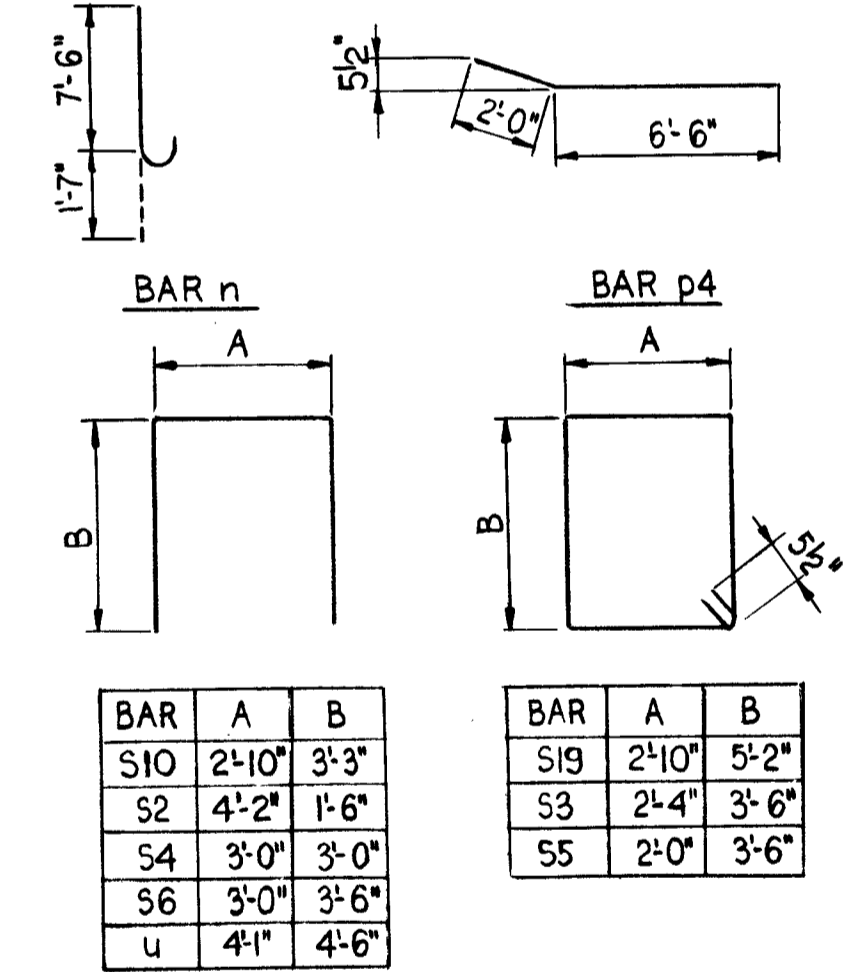


SECTION F-F  
SCALE: 3/8"=1'-0"



SECTION C-C  
SCALE: 3/16"=1'-0"

BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	12	6	36'-0"	—
h1	8	6	18'-0"	—
n	88	11	9'-1"	—
p	14	11	41'-6"	—
p1	4	11	21'-0"	—
p2	14	11	29'-0"	—
p3	8	6	16'-0"	—
p4	16	8	8'-6"	—
p6	16	8	19'-0"	—
S10	112	5	9'-4"	—
S19	108	5	16'-11"	—
S2	22	5	7'-2"	—
S4	256	5	9'-0"	—
S3	136	5	12'-7"	—
S5	30	5	12'-0"	—
S6	288	5	10'-0"	—
t2	48	7	11'-6"	—
u	12	6	13'-1"	—
V2	72	11	20'-9"	—
V9	72	11	21'-6"	—
V10	16	11	17'-3"	—
w1	64	6	9'-6"	—



BAR	A	B
S10	2'-10"	3'-3"
S2	4'-2"	1'-6"
S4	3'-0"	3'-0"
S6	3'-0"	3'-6"
u	4'-1"	4'-6"

PILE DATA	
PILE TYPE	10 BP 42
DESIGN CAPACITY, TON	50
NUMBER REQUIRED*	48
ESTIMATED LENGTH, FEET	42
CUT OFF ELEVATION	547

\* INCLUDING 1 TEST PILE

⊕ DENOTES TEST PILES  
 † DENOTES BATTERED PILES

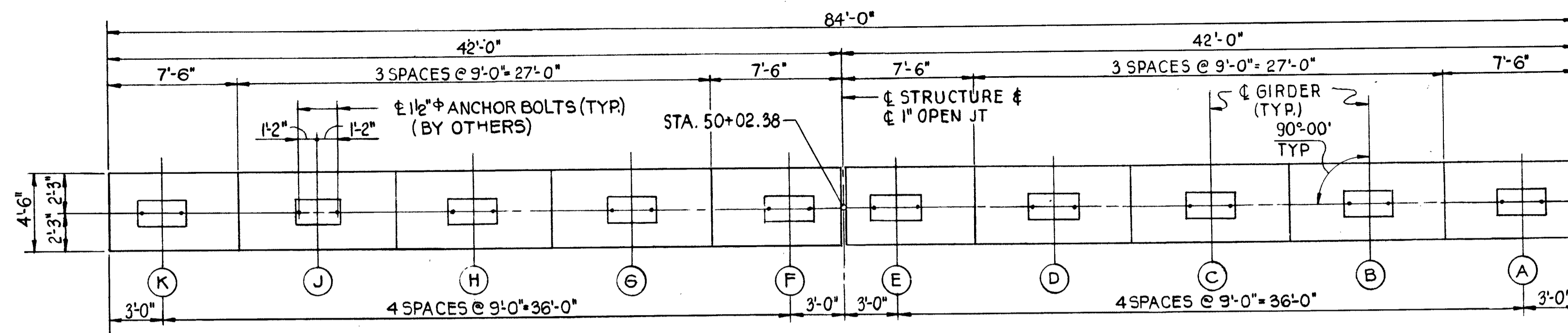
NOTES:  
 SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS WHICH SHALL BE FURNISHED & SET BY OTHERS. ALL EDGES TO HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.  
 POUR STEPS MONOLITHICALLY WITH CAP.  
 ALL BAR DIMENSIONS ARE OUT TO OUT.  
 MIN. BAR LAP - 24 DIA. UNLESS OTHERWISE NOTED.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU.YD.	217
CLASS X CONCRETE	CU.YD.	264.6
REINFORCEMENT BARS	POUND	43,400
FURNISH STEEL PILES 10BP42	LIN.FT.	1,974
TEST PILE STEEL (10BP42)	EACH	1
DRIVING STEEL PILES	LIN.FT.	1,974

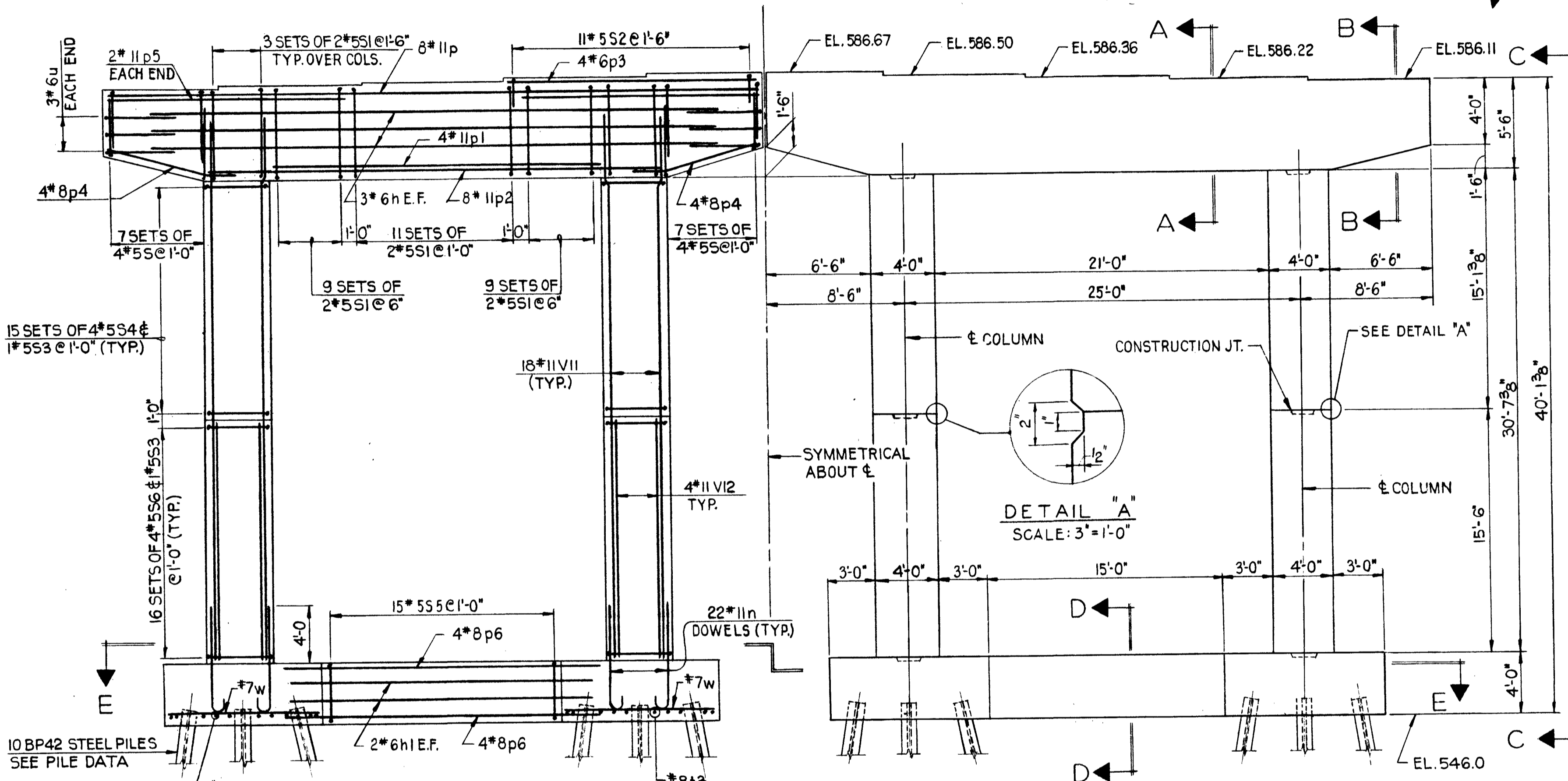
**PIER 24**  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY J.Y. HUANG  
 DRAWN BY P. POPOVIC  
 CHECKED BY J.Y. HUANG  
 IN CHARGE J.Y. HUANG  
 APPROVED W.G. HORN

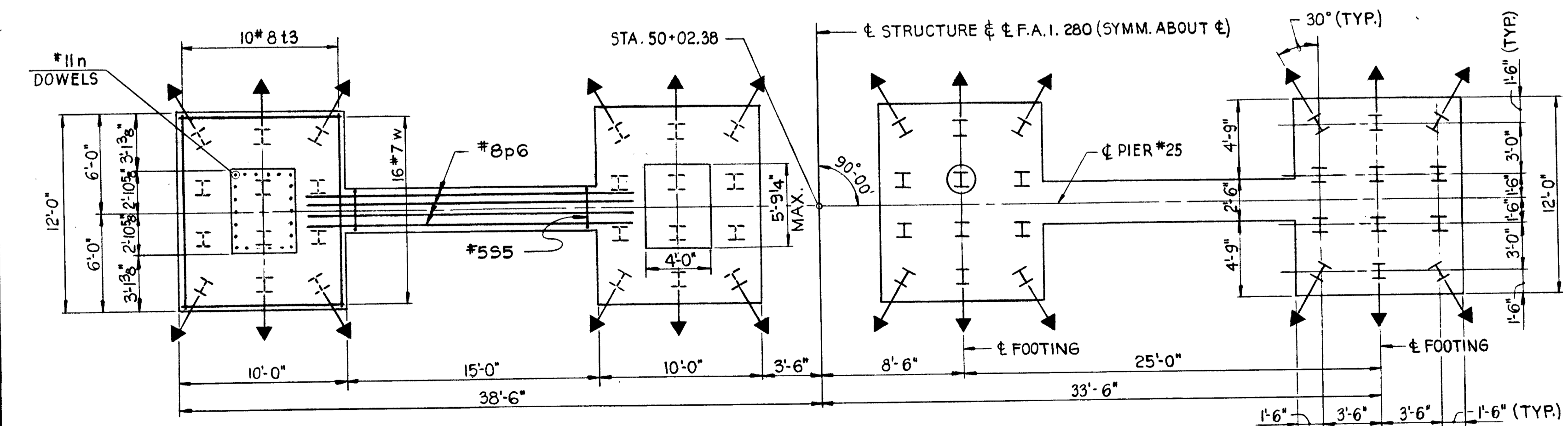
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	62
FED. ROAD DIST. NO.		FED. AID PROJECT 1-280		



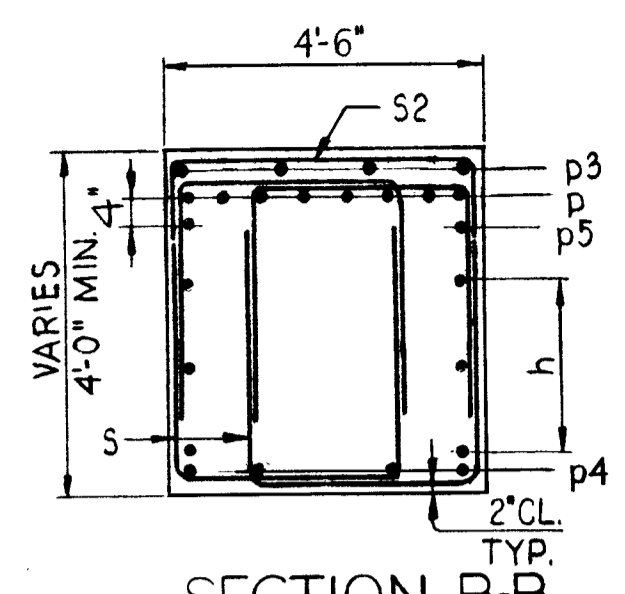
PLAN  
SCALE: 3/16" = 1'-0"



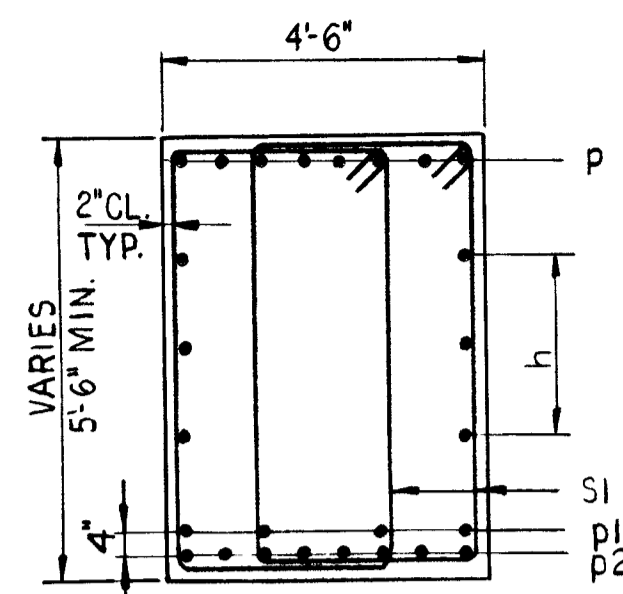
ELEVATION  
SCALE: 3/16" = 1'-0"



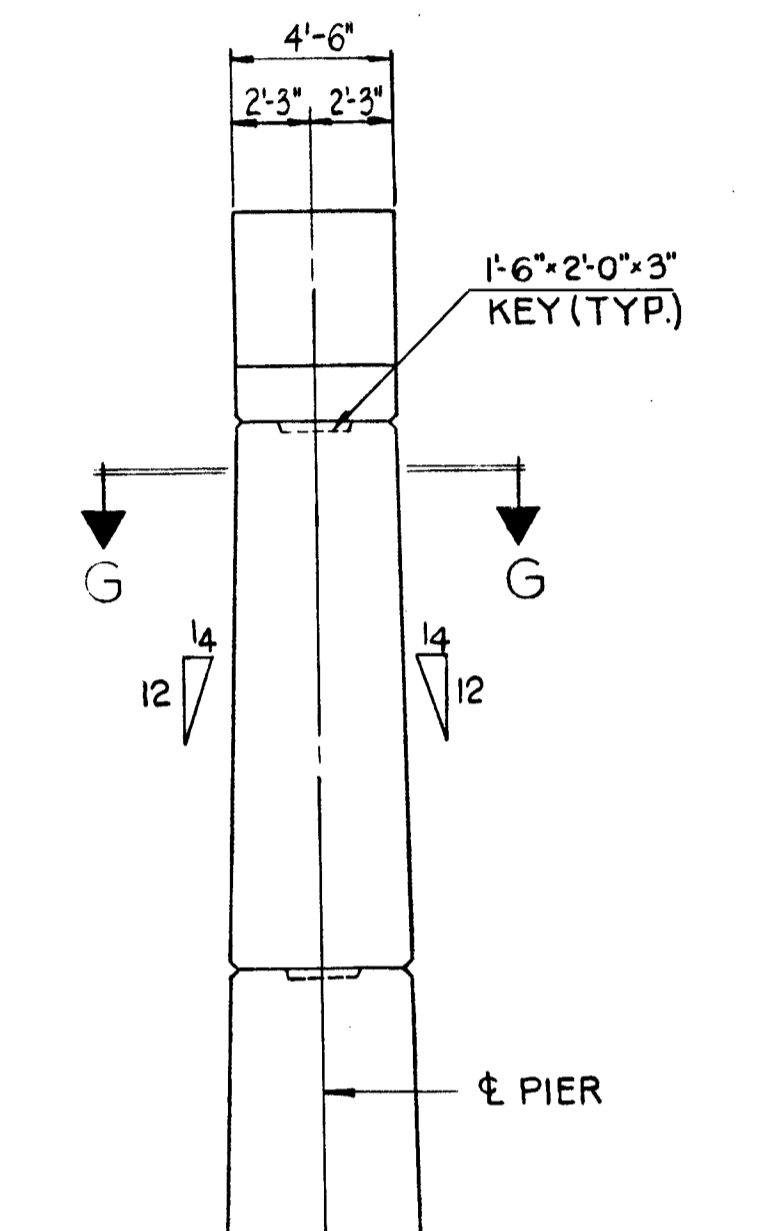
SECTION E-E  
SCALE: 3/16" = 1'-0"



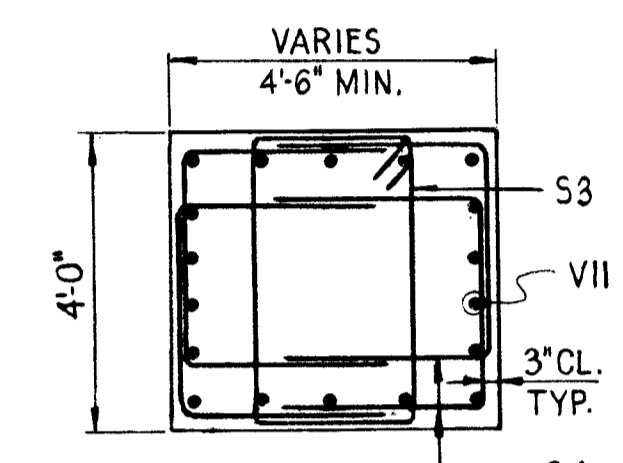
SECTION B-B  
SCALE: 3/8" = 1'-0"



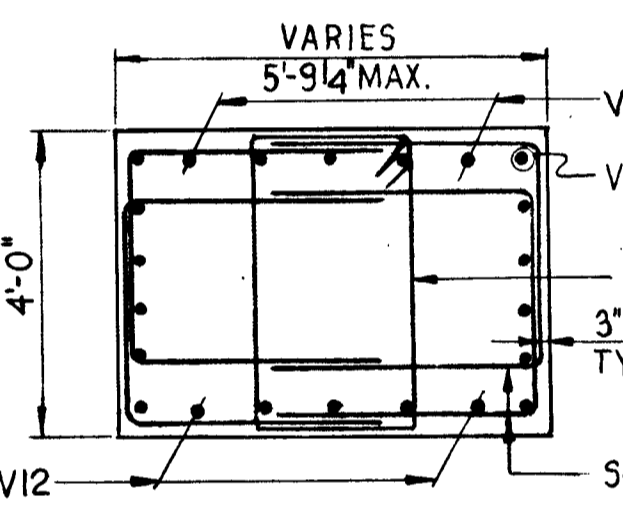
SECTION A-A  
SCALE: 3/8" = 1'-0"



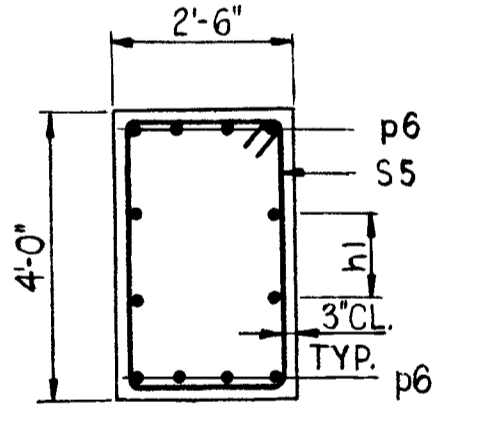
SECTION C-C  
SCALE: 3/8" = 1'-0"



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

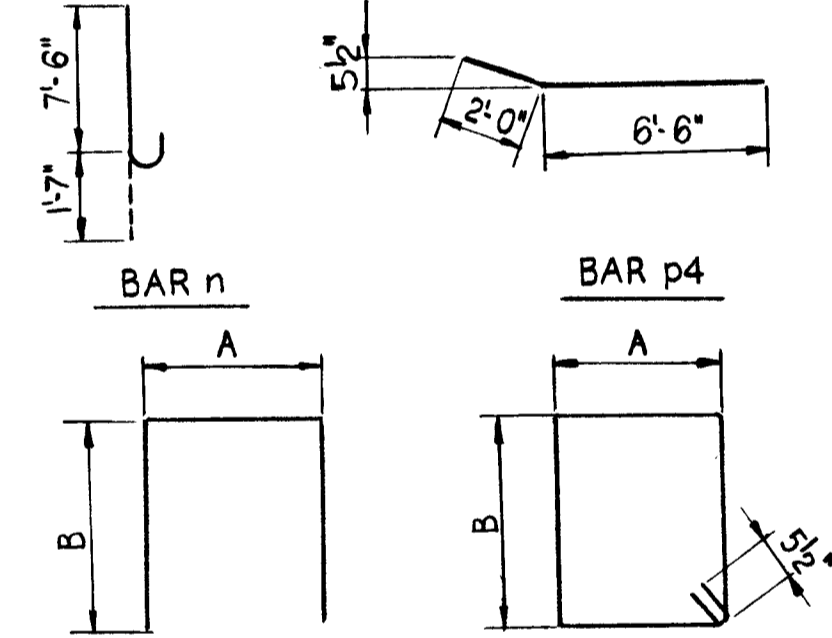


SECTION F-F  
SCALE: 3/8" = 1'-0"



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

BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
h	12	6	36'-0"	—
h1	8	6	18'-0"	—
n	88	11	9'-1"	—
p	16	11	41'-6"	—
p1	8	11	21'-0"	—
p2	16	11	29'-0"	—
p3	8	6	16'-0"	—
p4	16	8	8'-6"	—
p5	8	11	15'-0"	—
p6	16	8	19'-0"	—
s	112	5	9'-9"	—
s1	140	5	17'-9"	—
s2	22	5	7'-2"	—
s3	124	5	12'-7"	—
s6	256	5	10'-0"	—
s5	30	5	12'-0"	—
s4	240	5	9'-0"	—
t3	40	8	11'-6"	—
u	12	6	13'-1"	—
v11	72	11	34'-9"	—
v12	16	11	15'-3"	—
w	64	7	9'-6"	—



BAR	A	B
s	3'-3"	3'-3"
s1	3'-3"	5'-2"
s2	4'-2"	1'-6"
s4	3'-0"	3'-0"
s6	3'-0"	3'-6"
u	4'-1"	4'-6"

⊙ DENOTES TEST PILE  
I DENOTES BATTERED PILE

NOTES:  
SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS WHICH SHALL BE FURNISHED AND SET BY OTHERS.  
ALL EDGES TO HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.  
FOUR STEPS MONOLITHICALLY WITH CAP.  
ALL BAR DIMENSIONS ARE OUT TO OUT.  
MIN BAR LAP - 24 DIA. UNLESS OTHERWISE NOTED.

PILE DATA	
PILE TYPE	10 BP 42
DESIGN CAPACITY, TONS	50
NUMBER REQUIRED*	48
ESTIMATED LENGTH, FEET	41
CUT OFF ELEVATION	547.0

\* INCLUDING 1 TEST PILE

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU.YD.	362
CLASS X CONCRETE	CU.YD.	253.0
REINFORCEMENT BARS	POUND	42,120
FURNISH STEEL PILES (10BP42)	LIN.FT.	1,927
TEST PILE STEEL (10BP42)	EACH	1
DRIVING STEEL PILES	LIN.FT.	1,927

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY S. RASHID  
DRAWN BY P. POPOVIC  
CHECKED J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W.G. HORN

PIER 25  
F.A.I. ROUTE 280 SECTION 81-1B  
1-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

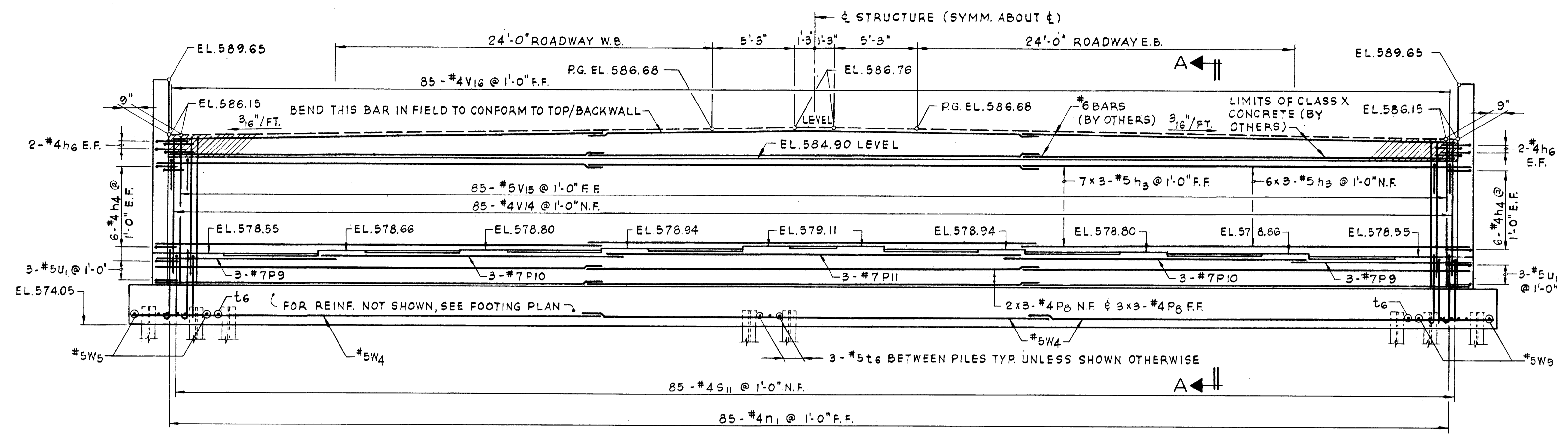








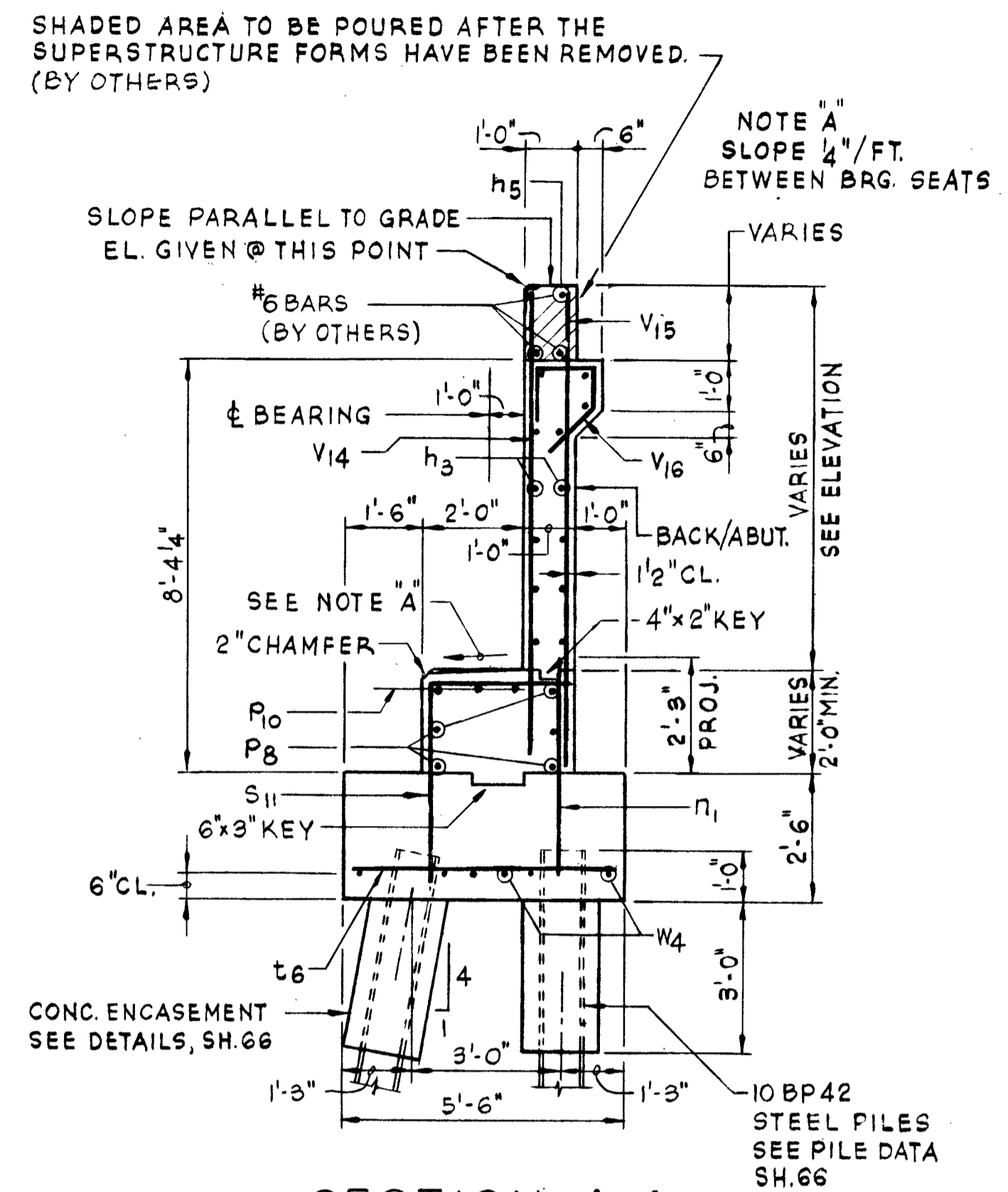
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	65
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



**ABBREVIATIONS**  
 N.F. = NEAR FACE  
 F.F. = FAR FACE  
 E.F. = EACH FACE

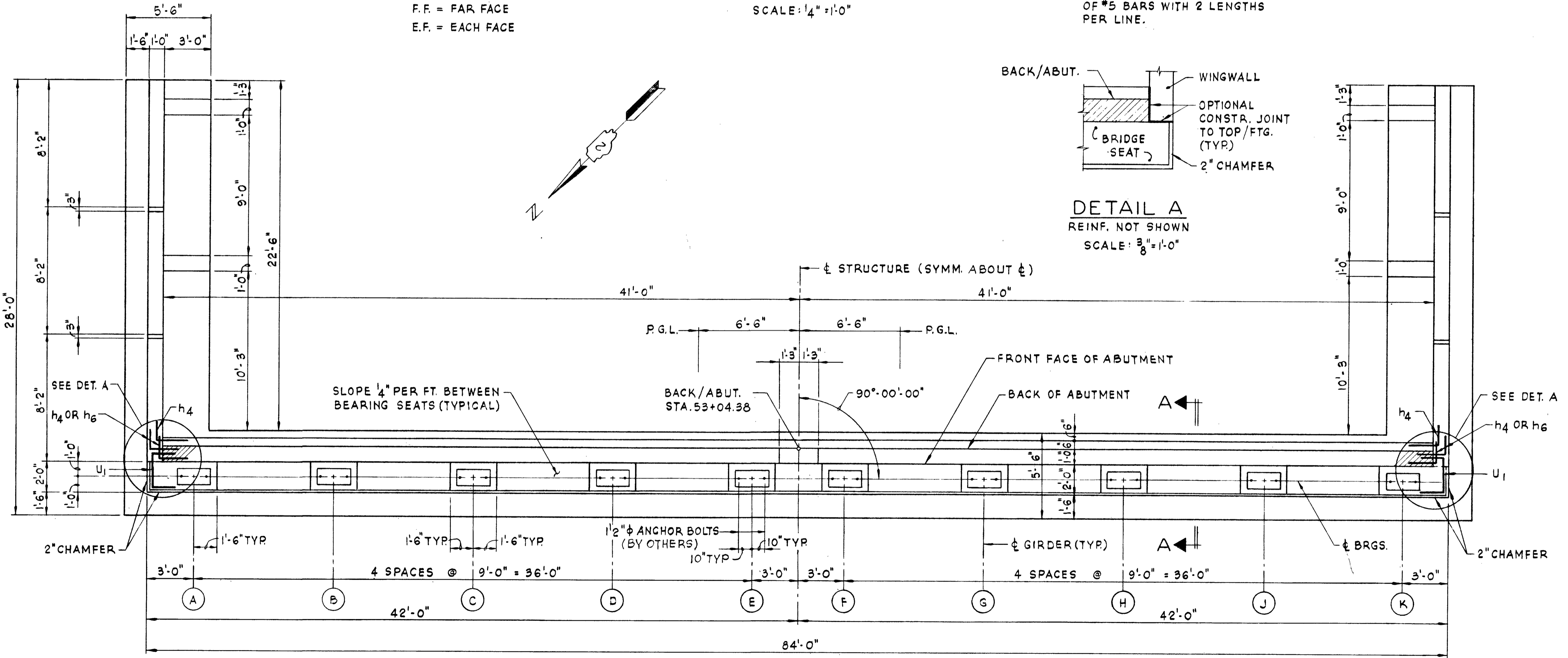
**ELEVATION**  
 SCALE: 1/4" = 1'-0"

**KEY TO BAR INDICATION**  
 4x2-#5 INDICATES 4 LINES OF #5 BARS WITH 2 LENGTHS PER LINE.



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

**NOTES:**  
 SPACE REINFORCEMENT IN CAP TO CLEAR ANCHOR BOLTS, WHICH SHALL BE FURNISHED AND SET BY OTHERS. ALL EDGES TO HAVE STANDARD 3/4" CHAMFER EXCEPT AS NOTED. POUR STEPS MONOLITHICALLY WITH ABUTMENT SEAT. ALL BAR DIMENSIONS ARE OUT TO OUT. MIN. BAR LAP 24 DIA. UNLESS OTHERWISE NOTED. WORK THIS SHEET WITH SH. 66



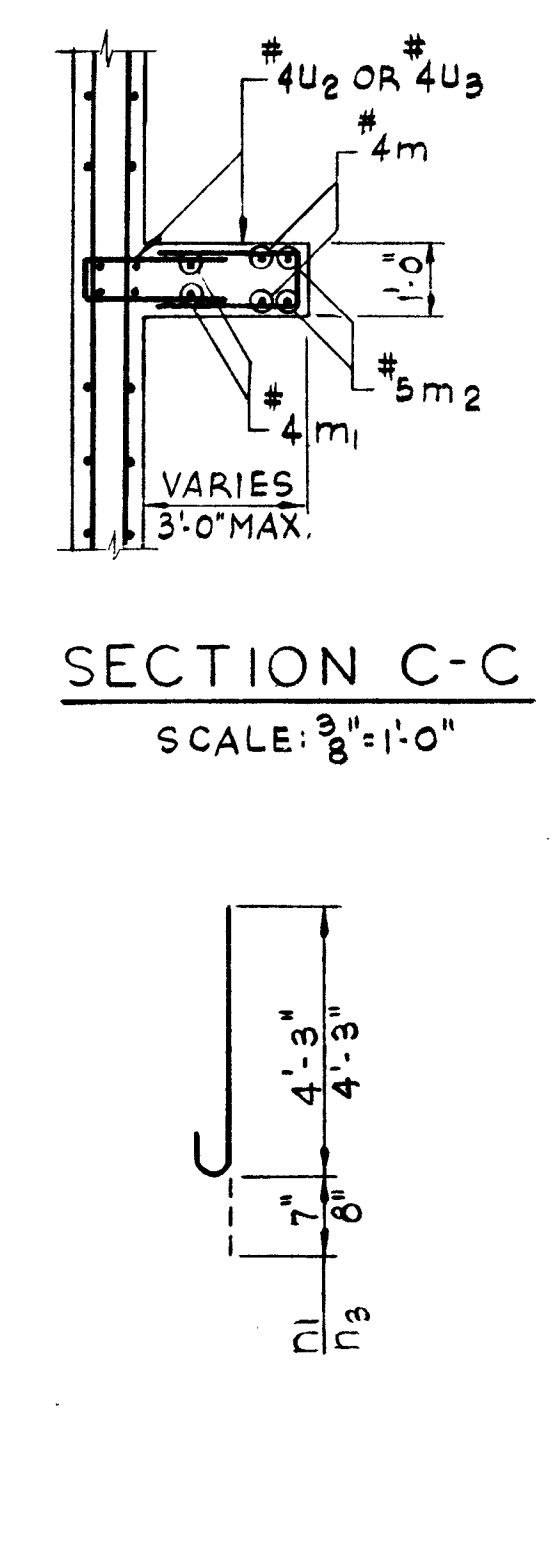
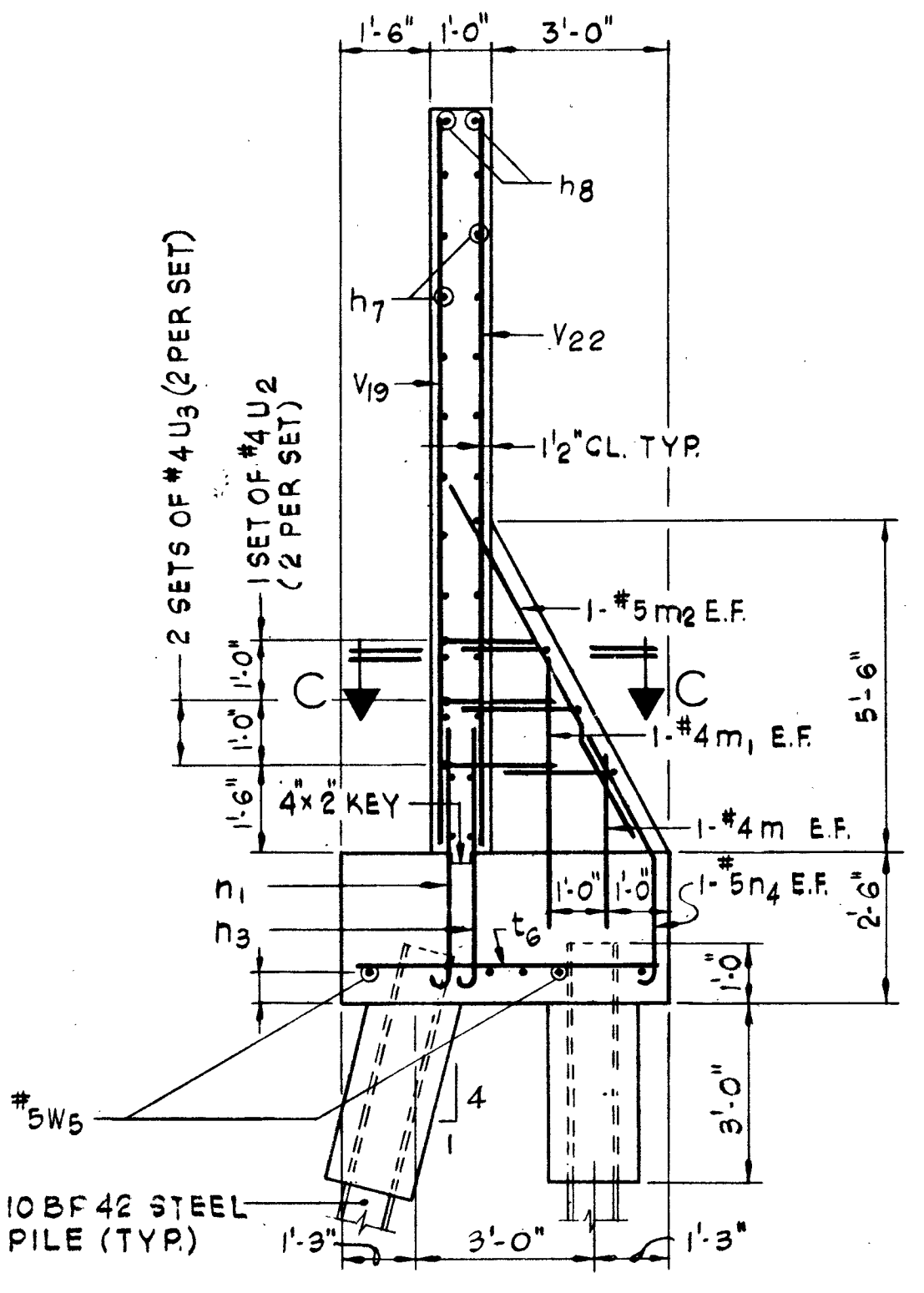
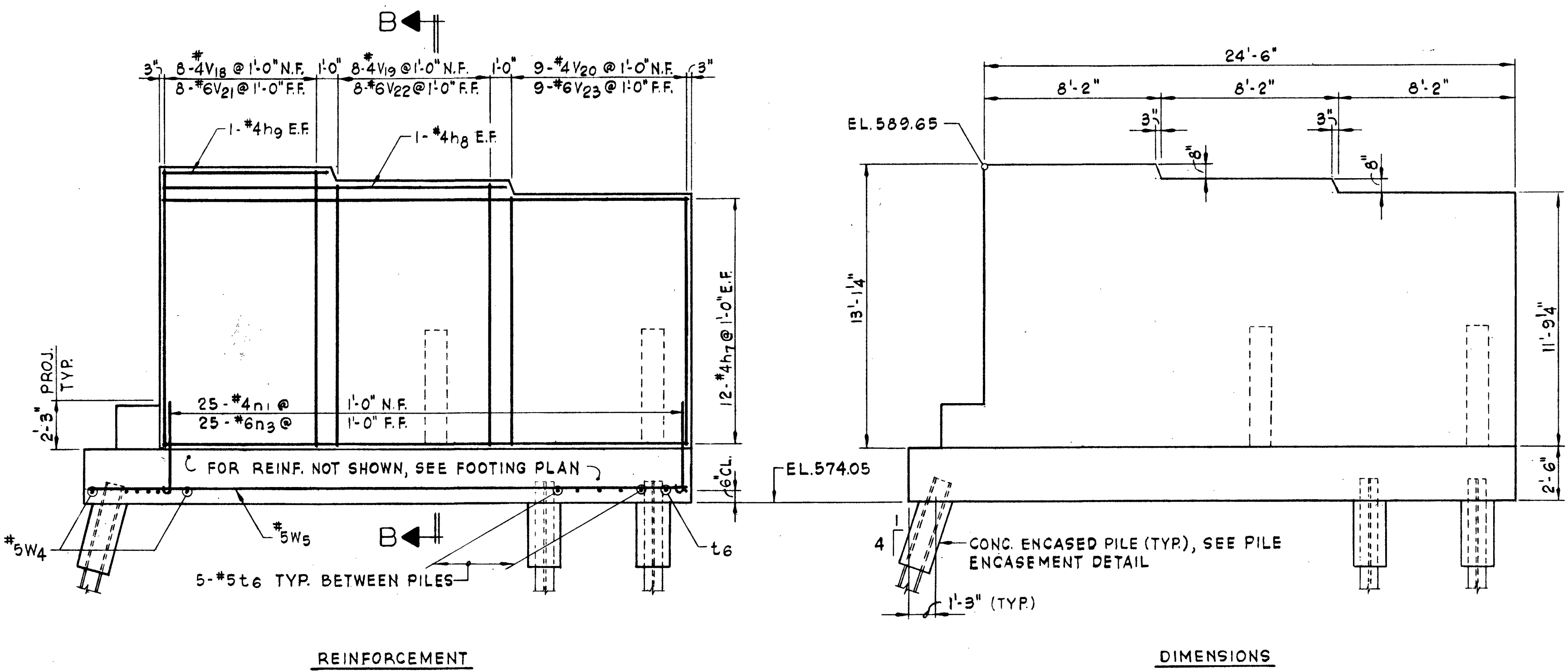
**PLAN**  
 SCALE: 1/4" = 1'-0"

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS A EXCAVATION FOR STRUCTURE	CU. YD.	192
CLASS X CONCRETE	CU. YD.	134.0
CLASS X CONCRETE ENCASUREMENT	CU. YD.	12
REINFORCEMENT BARS	POUND	9000
FURNISH STEEL PILES (10BP42)	LIN. FT.	3290
TEST PILE STEEL (10BP42)	EACH	1
DRIVING STEEL PILES	LIN. FT.	3290
NAME PLATE	EACH	1

**EAST ABUTMENT  
 PLAN & ELEVATION**  
 F.A.I. ROUTE 280 SECTION 81-1B  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY J.Y. HUANG, W.Y. HUO  
 DRAWN BY J.N. LESLIE  
 CHECKED BY J.Y. HUANG  
 IN CHARGE J.Y. HUANG  
 APPROVED W.G. HORN

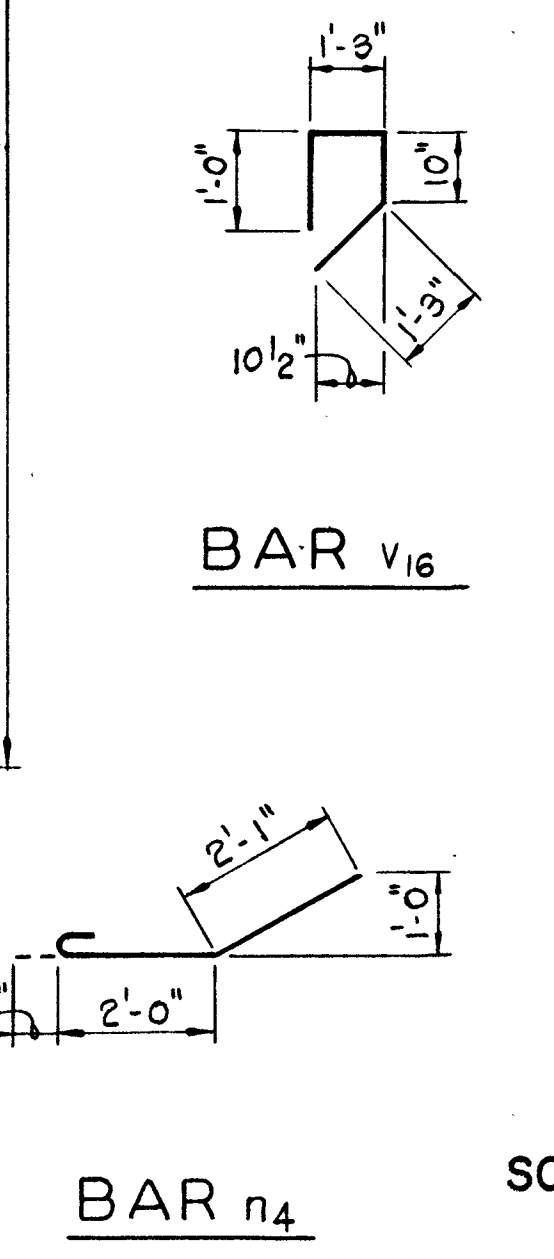
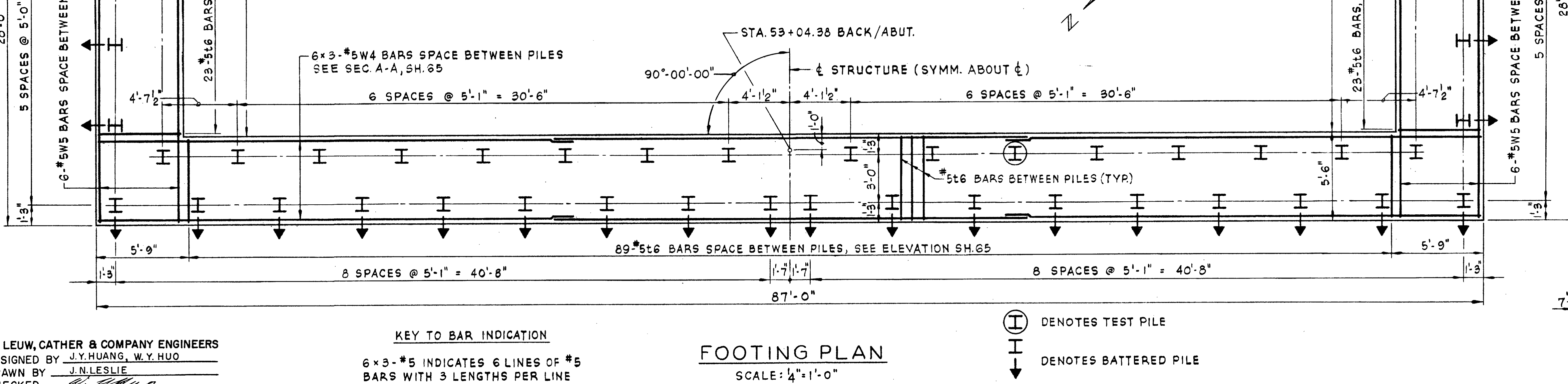
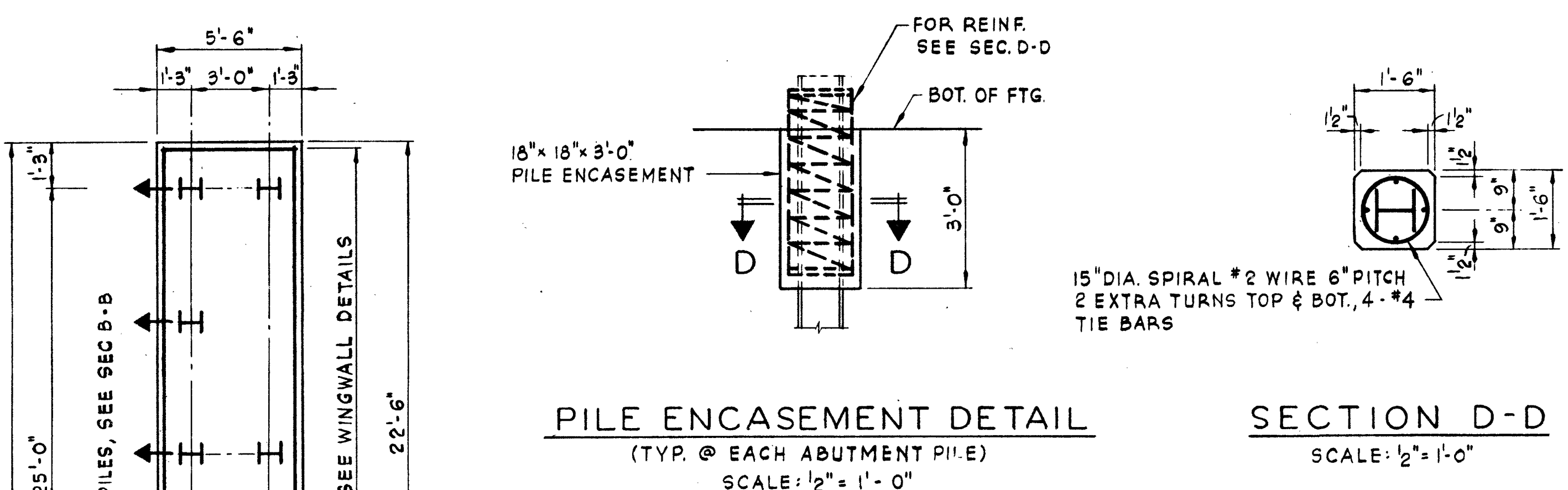
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	66
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



BAR LIST				
ABUTMENT & WINGWALLS				
BAR	NO	SIZE	LENGTH	SHAPE
h3	29	5	28'-6"	—
h4	24	4	3'-0"	└
h6	8	4	4'-0"	└
h7	48	4	24'-3"	—
h8	4	4	15'-10"	—
h9	4	4	7'-8"	—
m	8	4	2'-10"	—
m1	8	4	4'-6"	—
m2	8	5	6'-6"	—
n1	135	4	4'-10"	└
n3	50	6	4'-11"	└
n4	8	5	4'-8"	└
p5	15	4	28'-6"	—
p9	6	7	12'-6"	—
p10	6	7	19'-10"	—
p11	3	7	26'-6"	—
s11	85	4	6'-9"	└
t6	135	5	5'-0"	—
u1	6	5	5'-9"	└
u2	8	4	3'-9"	└
u3	16	4	4'-5"	└
v14	85	4	8'-10"	—
v15	85	5	9'-2"	—
v16	85	4	4'-4"	└
v18	16	4	12'-9"	—
v19	16	4	12'-0"	—
v20	18	4	11'-6"	—
v21	16	6	12'-9"	—
v22	16	6	12'-0"	—
v23	18	6	11'-6"	—
w4	18	5	29'-8"	—
w5	12	5	27'-6"	—

PILE DATA	
PILE TYPE	10BP42
DESIGN CAPACITY TON	50
NUMBER REQUIRED *	48
ESTIMATED LENGTH, FEET	70
CUT-OFF ELEVATION	575.05

\*INCLUDES 1 TEST PILE



NOTE:  
WORK THIS SHEET WITH SH.65

**EAST ABUTMENT FOOTING & WINGWALL DETAILS**  
F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY J.Y. HUANG, W.Y. HUO  
DRAWN BY J.N. LESLIE  
CHECKED BY [Signature]  
IN CHARGE J.Y. HUANG  
APPROVED W.G. HORN

**KEY TO BAR INDICATION**  
6 x 3 - #5 INDICATES 6 LINES OF #5 BARS WITH 3 LENGTHS PER LINE

⊕ DENOTES TEST PILE  
⊥ DENOTES BATTERED PILE

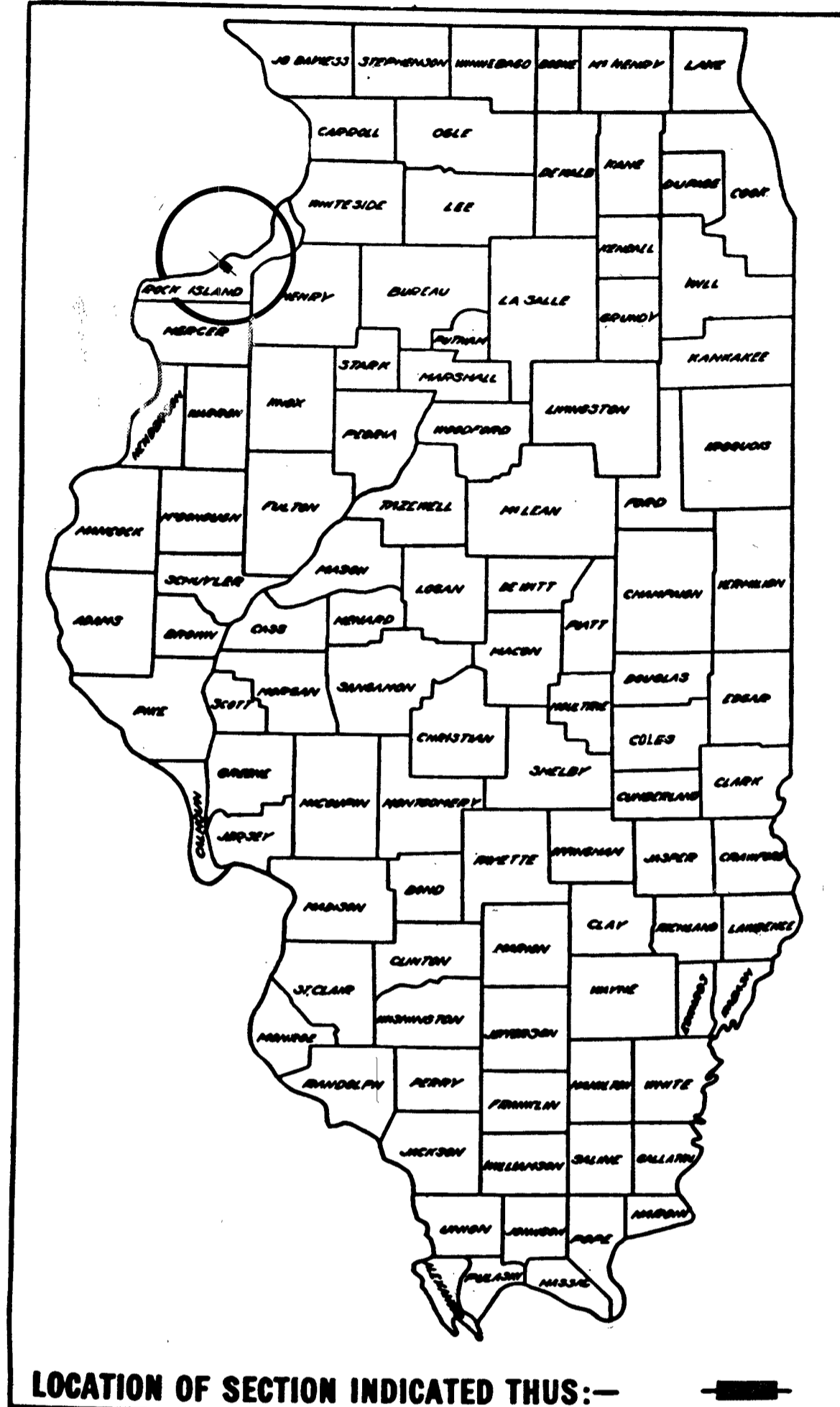


83-H

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

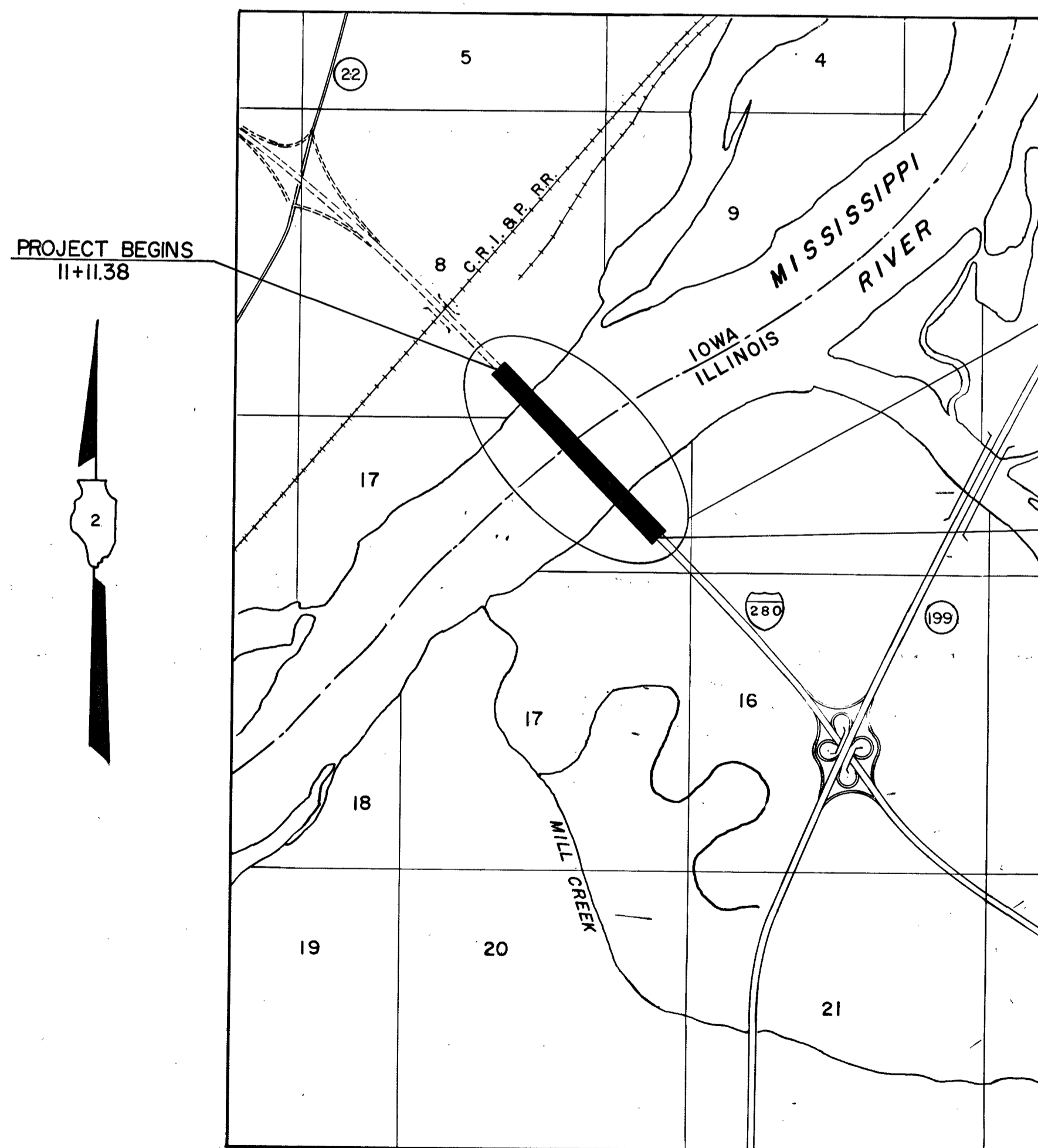
FEDERAL AID ROUTE NO.	REC.	COUNTY	TOTAL SHEETS	SHEET NO.
280	81-IF&E	ROCK ISLAND, ILL. SCOTT, IOWA	52	1
FED. ROAD DIV. NO. 7 ILLINOIS PROJECT I-280-8(53)0				

P-92-040-63



F.A.I. ROUTE 280 SECTION 81-IF & E  
 PROJECT I-280-8(53)0  
 ROCK ISLAND COUNTY, ILL.  
 SCOTT COUNTY, IOWA

C-92-007-71



PROJECT BEGINS  
11+11.38

SECTION 81-IF & E

INCLUDES THE FABRICATION AND ERECTION OF THE STRUCTURAL STEEL FOR THE SUPERSTRUCTURE OF A BRIDGE CONSISTING OF ONE 570 FOOT TIED ARCH SPAN AND 27 WELDED GIRDER APPROACH SPANS (7 SPANS @100', 3 SPANS @150', 3 SPANS @200', ARCH SPAN, 3 SPANS @200', 3 SPANS @150' AND 8 SPANS @100') CARRYING F.A.I. ROUTE 280 OVER THE MISSISSIPPI RIVER BETWEEN STATIONS 11+11.38 AND 53+04.38.

PROJECT ENDS  
53+04.38



LAYOUT  
SCALE 1" = 2000'

LENGTH OF PROJECT-SECTION 81-IF & E = 4193 FT. = 0.794 MILES

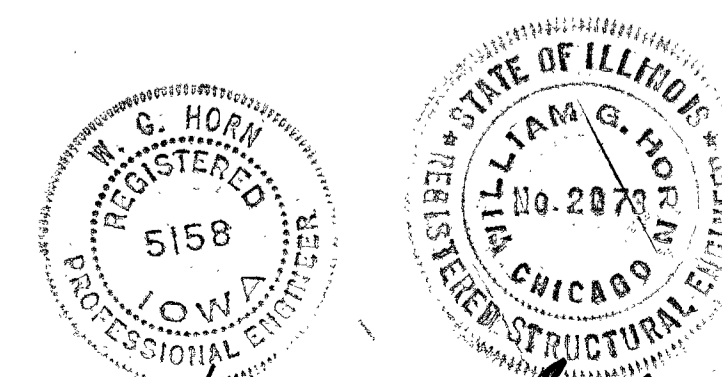
CONTRACT NO. 28257

ROCK ISLAND COUNTY SECTION 81-IF&E F. A. I. ROUTE 280

**APPROVED**

FOR STRUCTURAL ADEQUACY ONLY  
*Carl E. ...*  
 REGISTERED PROFESSIONAL ENGINEER

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	
SUBMITTED	October 6, 1970
EXAMINED	Oct 22, 1970
PASSED	Oct 22, 1970
APPROVED	Oct 22, 1970
APPROVED	Oct 22, 1970



*William G. Horn*

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ENGINEER	DATE

DE LEUW, CATHER & CO. - CHICAGO

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	2
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		

## GENERAL NOTES

## SUMMARY OF QUANTITIES

### INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES AND SUMMARY OF QUANTITIES
3	GENERAL PLAN AND ELEVATION
4	GENERAL PLAN, ELEVATION AND GROUND PLAN - BRIDGE UNITS 1, 2 AND 3
5	GENERAL PLAN, ELEVATION AND GROUND PLAN - BRIDGE UNITS 4 AND 5
6	GENERAL PLAN, ELEVATION AND GROUND PLAN - BRIDGE UNITS 6 AND 7
7	GENERAL PLAN, ELEVATION AND GROUND PLAN - BRIDGE UNITS 8 AND 9
8	FRAMING PLAN - UNIT 1
9	FRAMING PLAN - UNIT 2
10	FRAMING PLAN - UNIT 3
11	FRAMING PLAN - UNIT 4
12	FRAMING PLAN - UNIT 6
13	FRAMING PLAN - UNIT 7
14	FRAMING PLAN - UNIT 8
15	FRAMING PLAN - UNIT 9
16	HAUNCH DETAILS - GIRDERS A, E, F AND K - UNITS 4 AND 6
17	TRANSVERSE APPROACH GIRDERS AT PIERS 13 AND 14
18	DESIGN DATA TABLES - UNITS 1 THROUGH 4 AND 6 THROUGH 9
19	TOP OF GIRDER WEB ELEVATIONS AND FABRICATION DIAGRAMS - UNITS 1, 2, 8 AND 9
20	TOP OF GIRDER WEB ELEVATIONS AND FABRICATION DIAGRAMS - UNITS 3 AND 7
21	TOP OF GIRDER WEB ELEVATIONS AND FABRICATION DIAGRAMS - UNITS 4 AND 6
22	CROSS FRAME AND TYPICAL DETAILS - UNITS 1 THROUGH 4 AND 6 THROUGH 9
23	GIRDER FIELD SPLICES AND TYPICAL DETAILS - UNITS 1 THROUGH 4 AND 6 THROUGH 9
24	EXPANSION GUARD - EAST AND WEST ABUTMENTS
25	EXPANSION GUARD - PIERS 3, 10 AND 24
26	EXPANSION GUARD - PIERS 7, 17 AND 20
27	EXPANSION GUARD AND DRAINAGE DETAILS - PIERS 13 AND 14
28	EXPANSION GUARD AND DRAINAGE DETAILS - PIERS 13 AND 14
29	EXPANSION BEARINGS - APPROACH SPANS
30	FIXED BEARINGS - APPROACH SPANS
31	GENERAL LAYOUT OF ARCH SPAN - UNIT 5
32	STRESS SHEET - ARCH SPAN - UNIT 5
33	ARCH RIB, TIE AND HANGER DATA
34	ARCH RIB DETAILS - PANEL POINT L <sub>0</sub>
35	ARCH RIB DETAILS - PANEL POINT U <sub>1</sub>
36	ARCH RIB DETAILS - PANEL POINTS U <sub>2</sub> AND U <sub>3</sub>
37	ARCH RIB DETAILS - PANEL POINTS U <sub>4</sub> , U <sub>5</sub> , U <sub>6</sub> AND U <sub>7</sub>
38	ARCH RIB DETAILS
39	ARCH SPAN - TOP LATERAL BRACING
40	ARCH SPAN - TOP LATERAL BRACING
41	ARCH SPAN - BEARINGS
42	ARCH SPAN - FLOOR SYSTEM
43	ARCH SPAN - STRINGERS
44	ARCH SPAN - INTERIOR FLOOR BEAMS
45	ARCH SPAN - END FLOOR BEAMS
46	ARCH SPAN - HORIZONTAL TRUSS
47	ARCH SPAN - BOTTOM LATERAL BRACING
48	ARCH SPAN - TIE DETAILS
49	ARCH SPAN - HANGER DETAILS
50	RAILING - PIERS 13 AND 14, ACCESS LADDERS AND PLATFORMS
51	ARCH SPAN - INSPECTION WALKWAY DETAILS
52	ARCH SPAN - INSPECTION WALKWAY AND ARCH RIB RAILING
52A	STANDARD 2300

#### DESIGN LOADING:

HS 20-44 AND ALTERNATE PLUS 25 P.S.F. INITIAL WEARING SURFACE.

#### DESIGN SPECIFICATIONS:

AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL'S STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, TENTH EDITION, DATED 1969 AND THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES.

#### CONSTRUCTION SPECIFICATIONS:

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS, ADOPTED AUGUST 1, 1968, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

UNLESS OTHERWISE SHOWN, DIMENSIONS ON THE PLANS ARE MEASURED HORIZONTAL AT 50°F.

EXCEPT AS OTHERWISE PROVIDED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF PAINT AND THE SEALED PORTIONS OF THE ARCH TIE SHALL RECEIVE TWO SHOP COATS OF PAINT. THE PAINT REQUIRED FOR THE SHOP COATS SHALL BE AS SPECIFIED IN THE SUPPLEMENTAL SPECIFICATIONS FOR THE BASIC LEAD SILICO-CHROMATE PAINT SYSTEM. THE FIELD PAINTING OF THE STRUCTURAL STEEL IS NOT INCLUDED IN THIS CONTRACT.

FIELD CONNECTIONS SHALL BE BOLTED, USING HIGH STRENGTH BOLTS (ASTM-A325) AND WITH SIZES AS SHOWN ON THE PLANS.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

THE GRADES OF STRUCTURAL STEEL SHALL BE AS NOTED ON THE PLANS. FOR ASTM-A36,  $f_y = 20,000$  P.S.I.; FOR ASTM-A588,  $f_y = 27,000$  P.S.I.

CODE NO.	ITEM	UNIT	QUANTITY
507030	FURNISHING AND ERECTING STRUCTURAL STEEL	LUMP SUM	1

#### NOTE:

CALCULATED PLAN WEIGHT OF STRUCTURAL STEEL 20,408,000 LBS. (SEE BREAKDOWN OF STRUCTURAL STEEL WEIGHT AS LISTED BELOW.)

#### APPROACH SPANS:

ITEM	ASTM DESIGNATION	WEIGHT
WELDED PLATE GIRDERS	A588	4,535,000
WELDED PLATE GIRDERS	A36	6,515,000
BRACING AND MISCELLANEOUS	A36	495,000
BEARINGS	A36	556,500
EXPANSION GUARDS	A36 & A588	299,000
SUB-TOTAL =		12,400,500 LBS.

#### ARCH SPAN:

ITEM	ASTM DESIGNATION	WEIGHT
ROLLED BEAM STRINGERS & DIAPHRAGMS	A36	897,000
WELDED PLATE FLOORBEAMS	A36	857,000
WELDED PLATE FLOORBEAMS	A588	174,600
*ARCH RIBS AND TIES	A588	4,205,000
*TOP LATERAL BRACING	A36	1,150,000
BOTTOM LATERAL BRACING	A36	264,200
HORIZONTAL TRUSSES	A36	32,400
ARCH BEARINGS (BEARING PLATES - A237, CLASS D)	A588	168,200
STRINGER BEARINGS	A588	10,400
BRIDGE STRAND CABLE HANGERS	A588	85,200
CABLE HANGER HARDWARE	A235	38,800
INSPECTION WALKWAY, RAILING AND MISCELLANEOUS	A36	124,700
SUB-TOTAL =		8,007,500 LBS.

#### \* NOTE:

THE ACTUAL CONFIGURATION OF THE ARCH RIB WEB PLATES AND THE VERTICAL PLATES OF THE TOP LATERAL BRACING STRUTS HAS BEEN USED AS THE BASIS FOR THE WEIGHTS SHOWN.

### INDEX OF SHEETS, GENERAL NOTES AND SUMMARY OF QUANTITIES

F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER

SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.

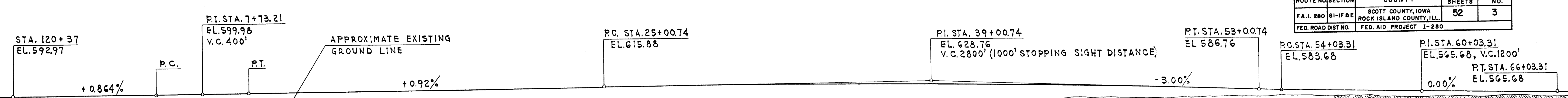
STA. 11 + 11.38 TO STA. 53 + 04.38

SCALE: AS NOTED DATE: OCT. 1, 1970

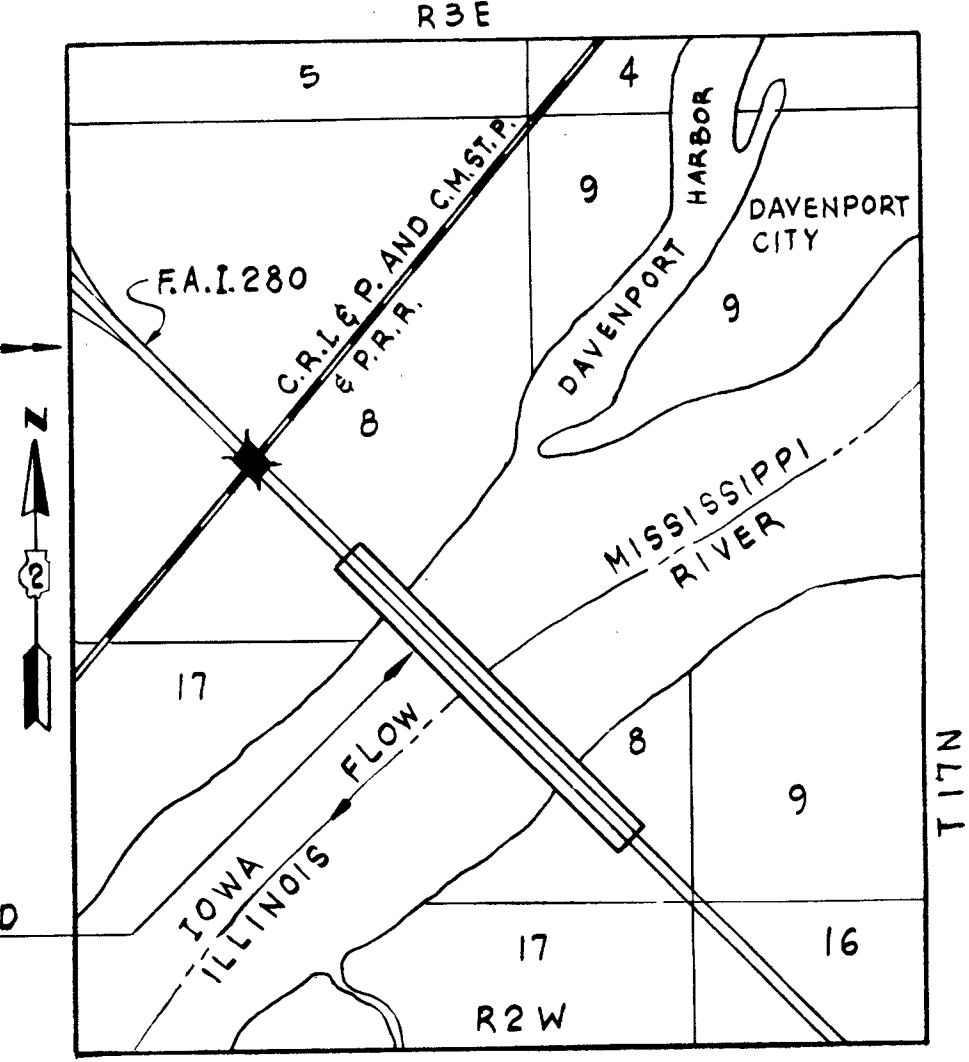
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY \_\_\_\_\_  
DRAWN BY P. POPOVIC  
CHECKED W. J. ZAPFEL  
IN CHARGE W. J. ZAPFEL  
APPROVED W. G. HORN



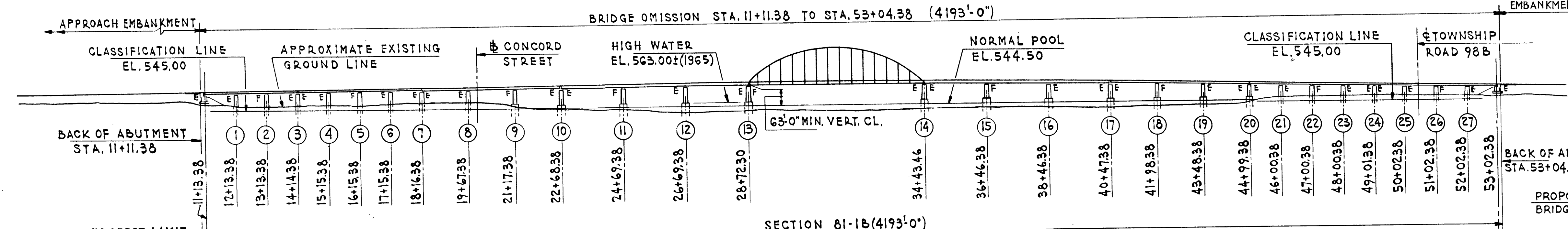
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	3
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



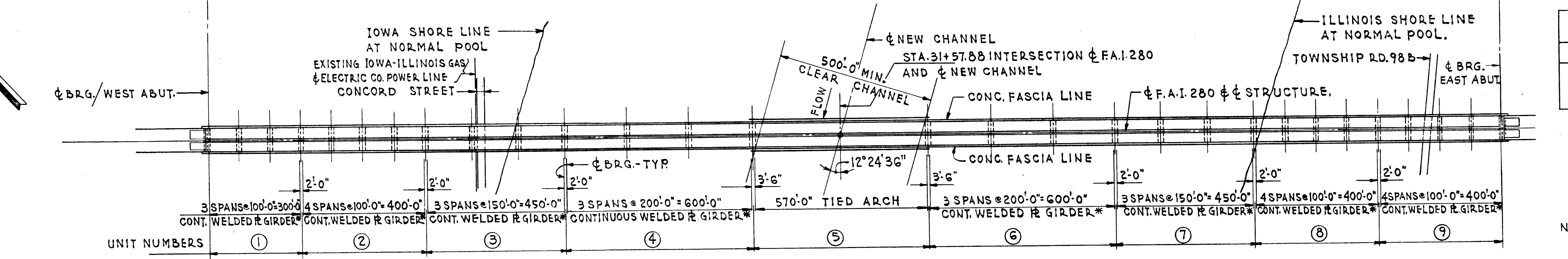
**PROFILE GRADE**  
SCALE: 1"=200'



**LOCATION PLAN**



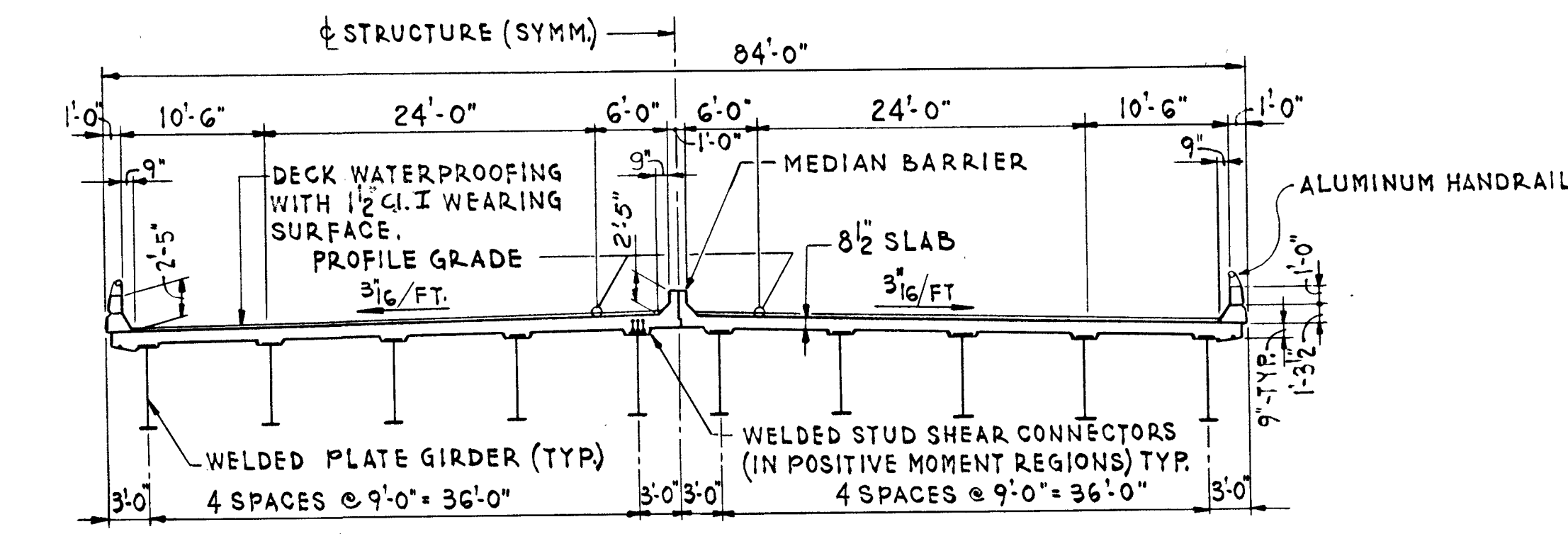
**ELEVATION**  
SCALE: 1"=200'



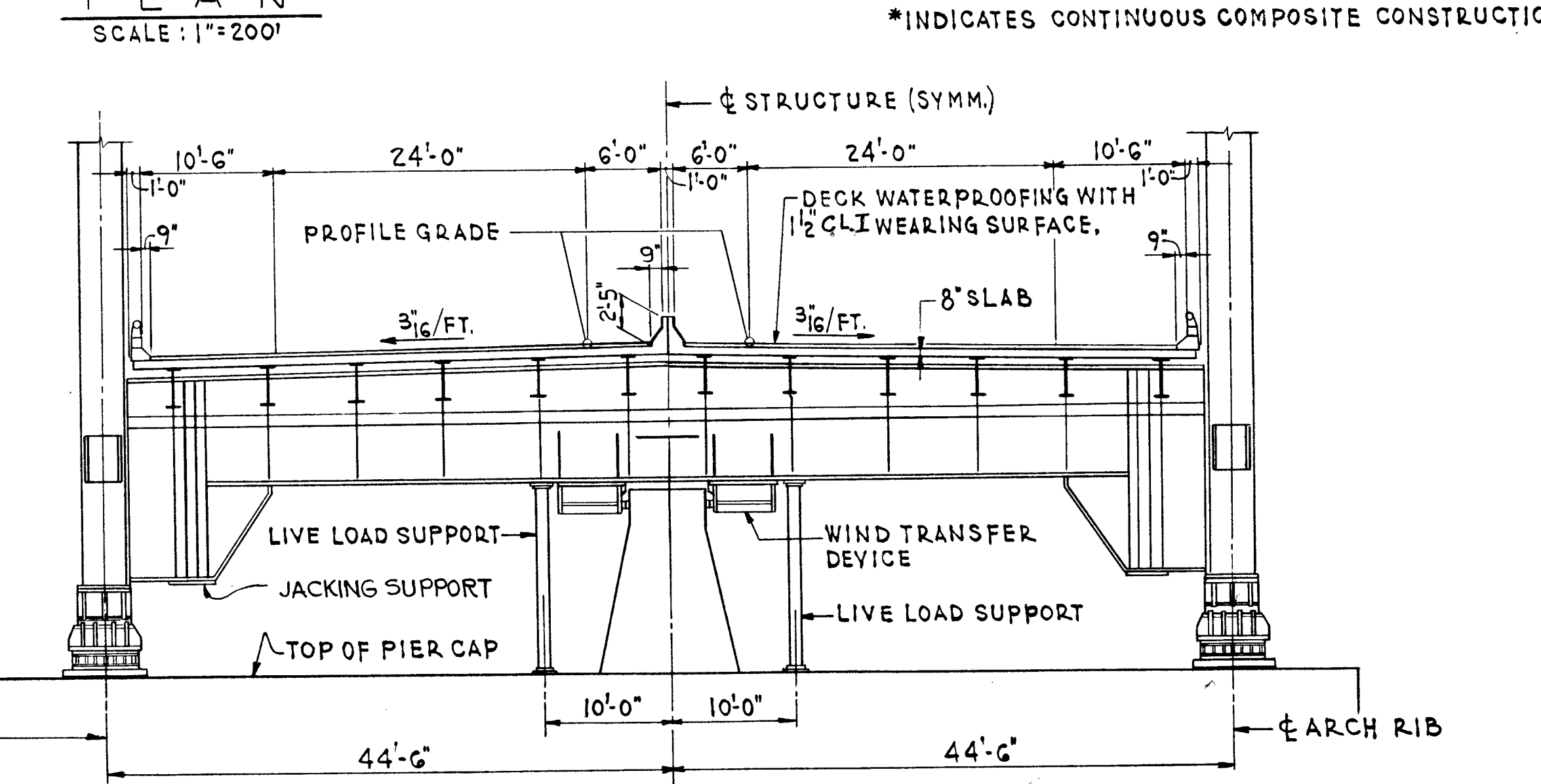
**PLAN**  
SCALE: 1"=200'

QUANTITIES		
ITEM	UNIT	QUANTITY
FURNISHING AND ERECTING OF STRUCTURAL STEEL	LUMP SUM	1

NOTE:  
CALCULATED PLAN WEIGHT OF STRUCTURAL STEEL 20,408,000 LBS.



**TYPICAL CROSS SECTION - APPROACH SPANS**  
SCALE: 1"=10'



**TYPICAL CROSS SECTION - ARCH SPAN**  
SHOWING AT END FLOOR BEAM  
SCALE: 1"=10'

**WATERWAY INFORMATION**

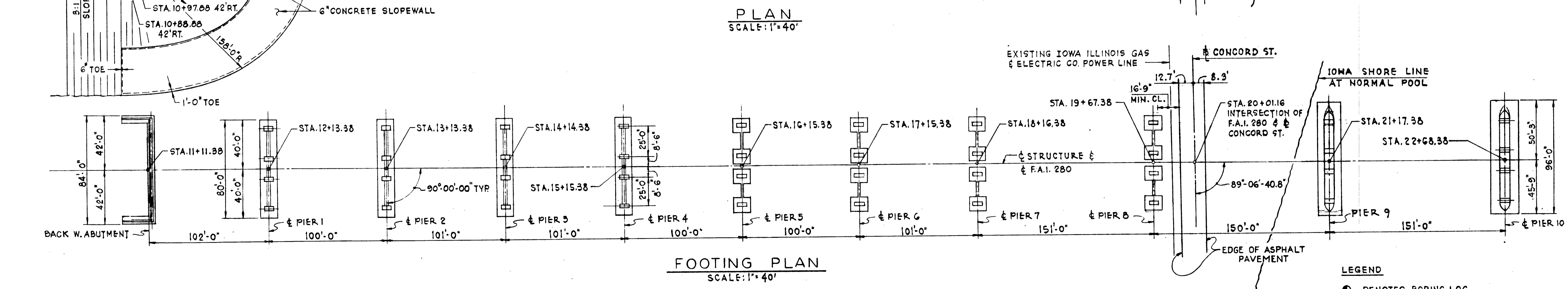
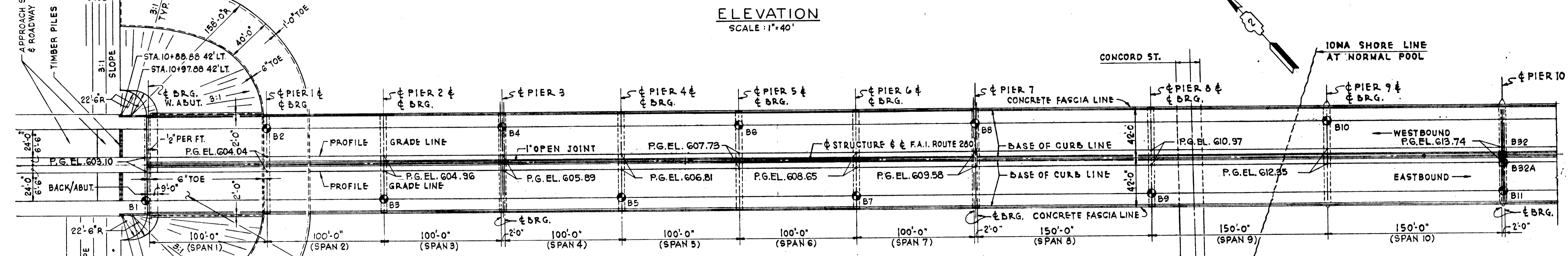
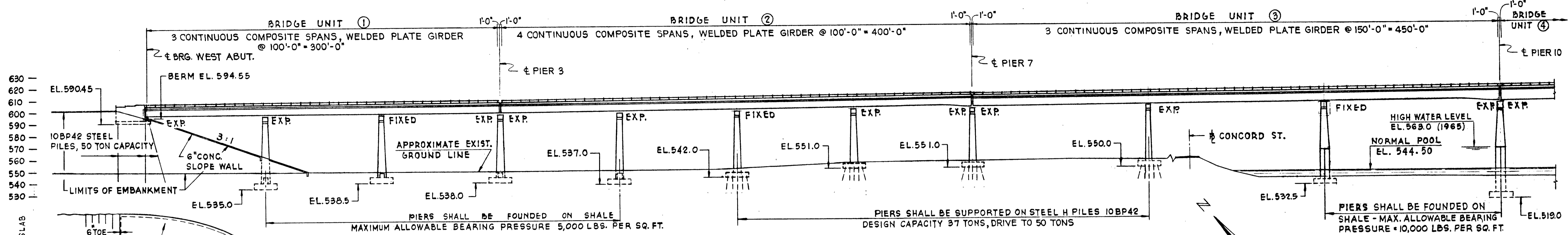
WATERWAY OPENING REQUIRED	26,000 SQ.FT.
WATERWAY OPENING PROVIDED	26,240 SQ.FT.
50 YEAR FREQUENCY DISCHARGE	293,000 CU.FS.
50 YEAR HIGH WATER ELEVATION	562.5
DRAINAGE AREA	99,200 SQ.MI.
MILES FROM MOUTH	1,560 MI.

NOTE:  
CERTAIN ITEMS OF WORK SHOWN ON THESE DRAWINGS ARE SHOWN FOR INFORMATION ONLY. THIS CONTRACT COVERS THE FABRICATION AND ERECTION OF THE STRUCTURAL STEEL FOR THE SUPERSTRUCTURE OF THE BRIDGE PLUS ADDITIONAL ITEMS OF WORK AS DEFINED IN THE SPECIAL PROVISIONS.  
THE CONSTRUCTION OF THE SUBSTRUCTURE; THE CONSTRUCTION OF THE CONCRETE DECK, WEARING SURFACE, DECK RAILING AND NAVIGATION LIGHTING; AND THE FIELD PAINTING OF THE STRUCTURAL STEEL ARE COVERED UNDER SEPARATE CONTRACTS AND THEREFORE ARE NOT A PART OF THESE PLANS.

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY W.G. HORN  
DRAWN BY A. BUKOKAS  
CHECKED J.Y. HUANG  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

**GENERAL PLAN AND ELEVATION**  
FA.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	4
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		



**NOTE:**  
FOR FRAMING PLAN UNITS 1, 2 AND 3  
SEE SHEETS NO. 8, 9 AND 10.

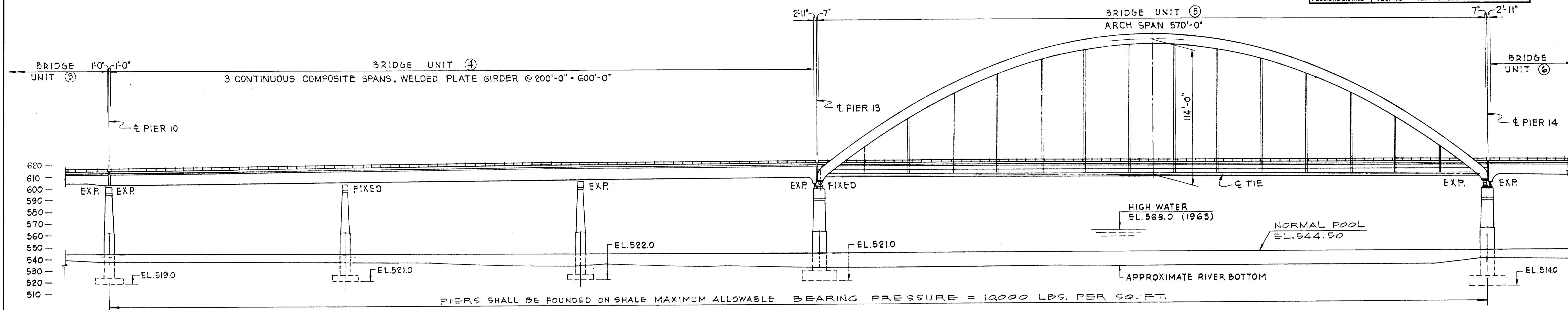
**LEGEND**  
● DENOTES BORING LOG

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.G. HORN  
DRAWN BY A. BUROKAS  
CHECKED BY J. Y. HUANG  
IN CHARGE J. Y. HUANG  
APPROVED W.G. HORN

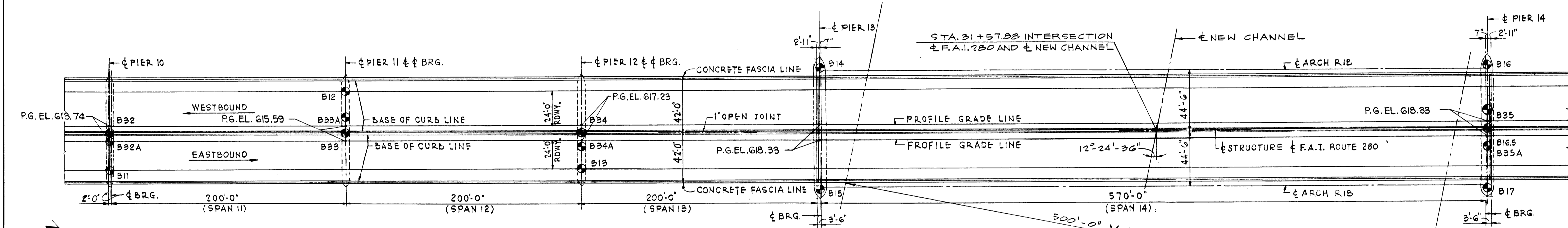
**GENERAL PLAN, ELEVATION & GROUND PLAN**  
**BRIDGE UNITS 1, 2 & 3**  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 13.38 TO STA. 22 + 68.38  
SCALE: AS NOTED DATE: OCT. 1, 1970



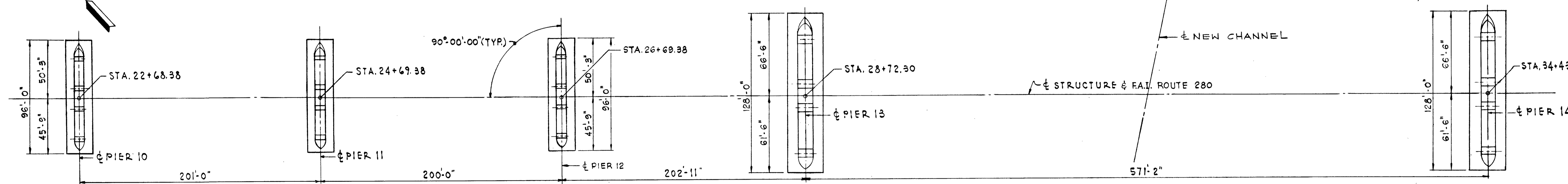
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	5
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



**ELEVATION**  
SCALE: 1" = 40'



**PLAN**  
SCALE: 1" = 40'



**FOOTING PLAN**  
SCALE: 1" = 40'

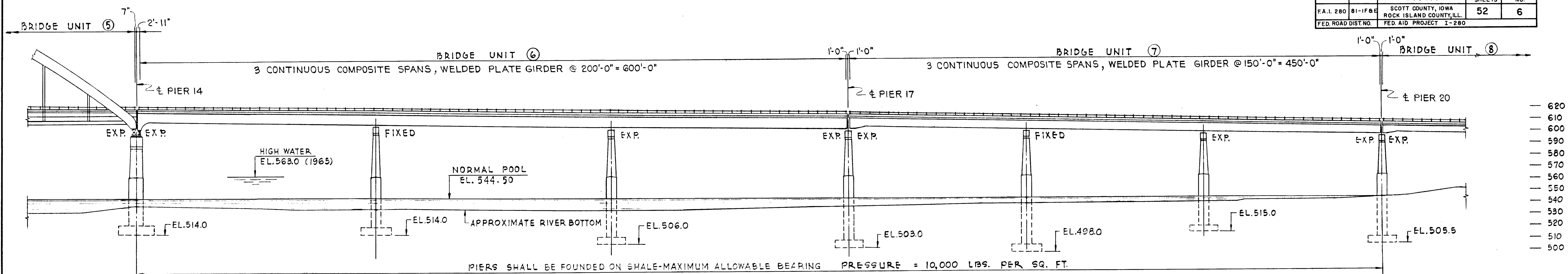
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W. G. HORN  
DRAWN BY A. BUROKAS  
CHECKED BY W. J. ZAPPEL  
IN CHARGE W. J. ZAPPEL  
APPROVED W. G. HORN

**LEGEND**  
● DENOTES BORING LOG

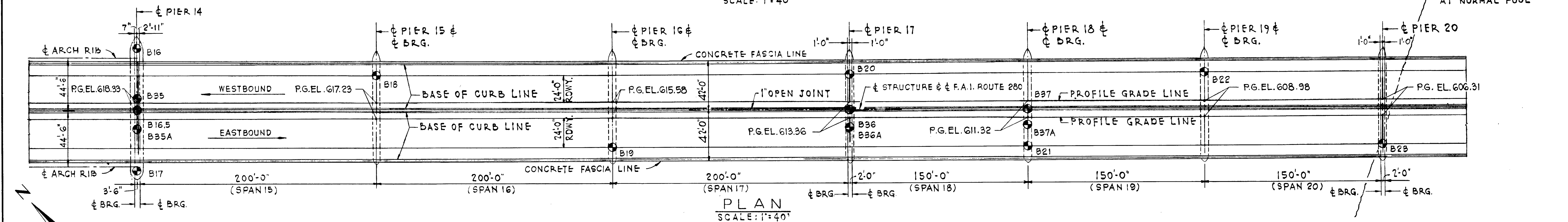
**NOTES:**  
FOR FRAMING PLAN UNIT 4 SEE SHEET NO. 11.  
FOR ARCH SPAN FRAMING PLAN SEE SHEET NO. 42.

**GENERAL PLAN, ELEVATION & GROUND PLAN**  
**BRIDGE UNITS 4 & 5**  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 22+68.38 TO STA. 34+43.46  
SCALE: AS NOTED DATE: OCT. 1, 1970

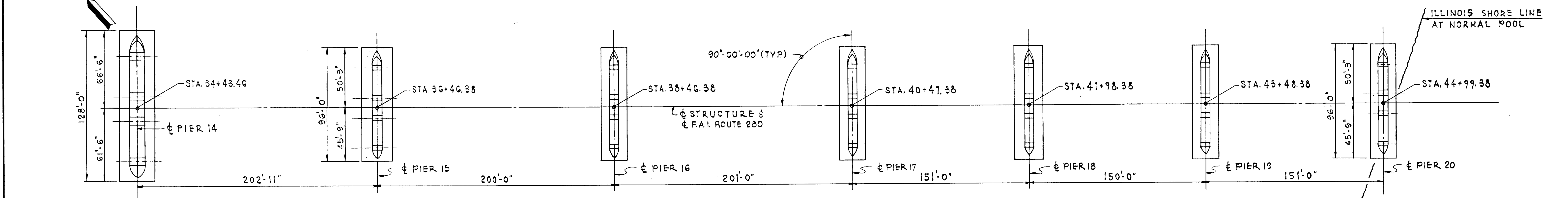
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	6
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



**ELEVATION**  
SCALE: 1" = 40'



**PLAN**  
SCALE: 1" = 40'



**FOOTING PLAN**  
SCALE: 1" = 40'

**LEGEND**

● DENOTES BORING LOG

**NOTE:**

FOR FRAMING PLAN UNITS 6 AND 7  
SEE SHEET NO. 12 AND 13.

DE LEJW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W. G. HORN  
DRAWN BY A. BUROKAS  
CHECKED  
IN CHARGE W. J. ZAPFEL  
APPROVED W. G. HORN

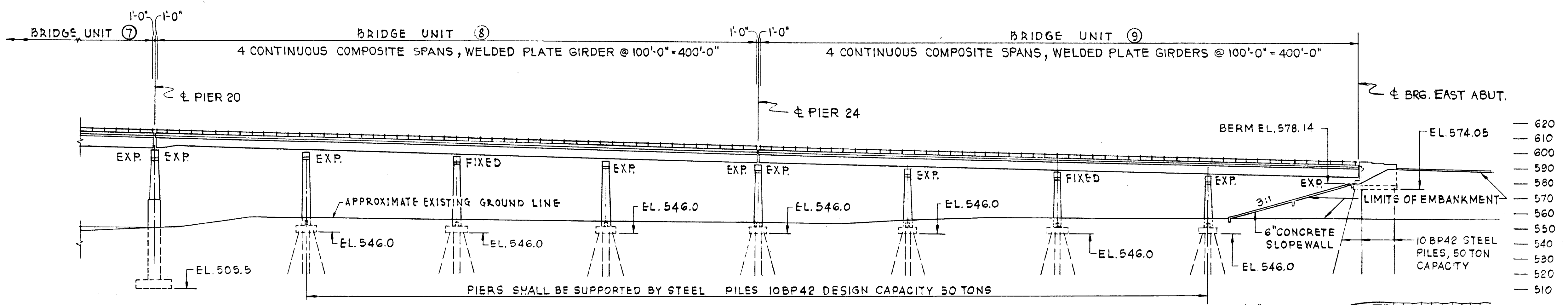
**GENERAL PLAN, ELEVATION & GROUND PLAN  
BRIDGE UNITS 6 & 7**

F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 34+43.46 TO STA. 44+99.38

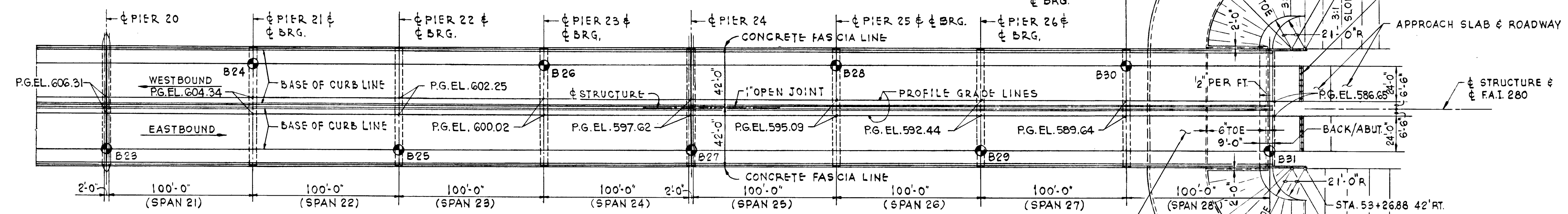
SCALE: AS NOTED DATE: OCT. 1, 1970



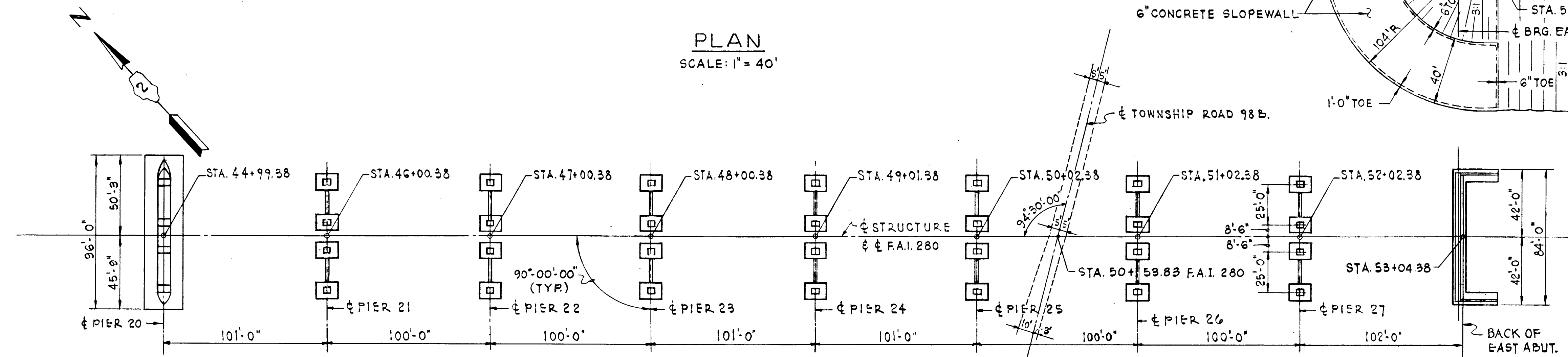
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	7
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



**ELEVATION**  
SCALE: 1" = 40'



**PLAN**  
SCALE: 1" = 40'



**FOOTING PLAN**  
SCALE: 1" = 40'

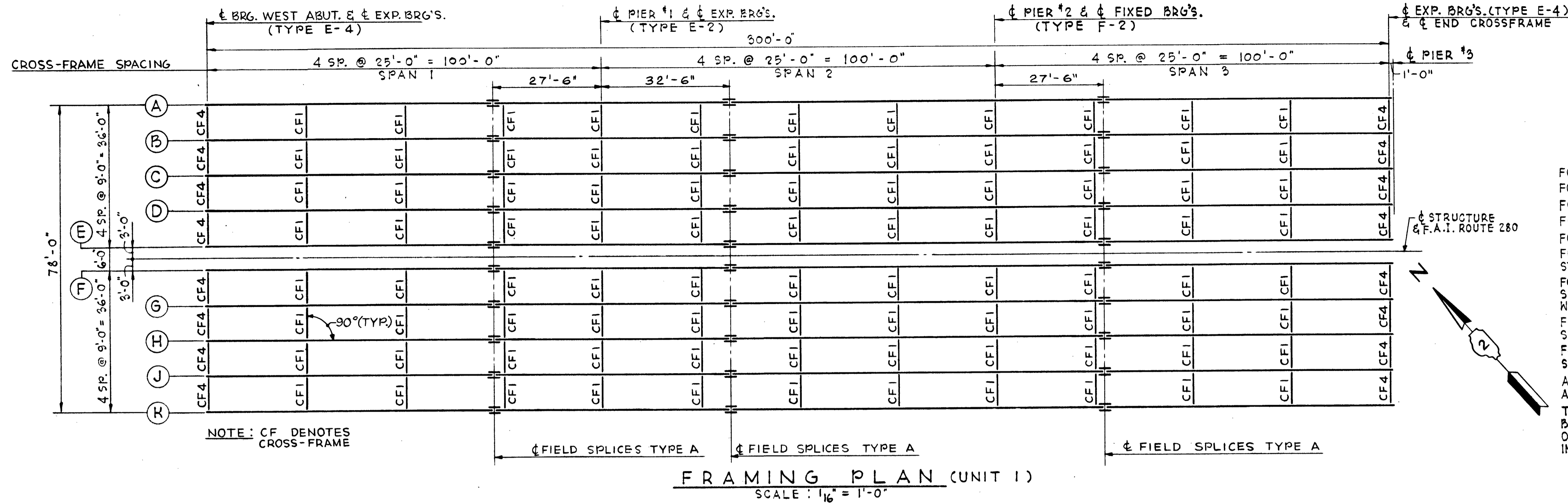
**LEGEND**  
● DENOTES BORING LOG

**NOTE:**  
FOR FRAMING PLAN UNITS 8 AND 9  
SEE SHEETS NO. 14 AND 15.

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.G. HORN  
DRAWN BY A. BUROKAS  
CHECKED \_\_\_\_\_  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

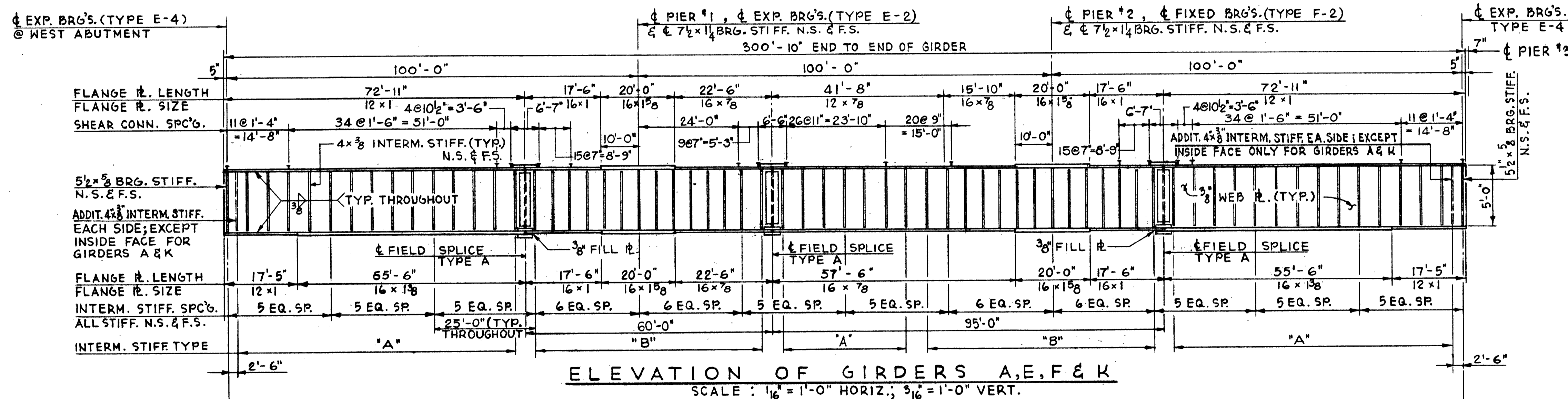
**GENERAL PLAN, ELEVATION & GROUND PLAN**  
**BRIDGE UNITS 8 & 9**  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 44+99.38 TO STA. 53+02.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	8
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



**STRUCTURAL STEEL NOTES FOR UNITS 1 THRU 4 & 6 THRU 9**

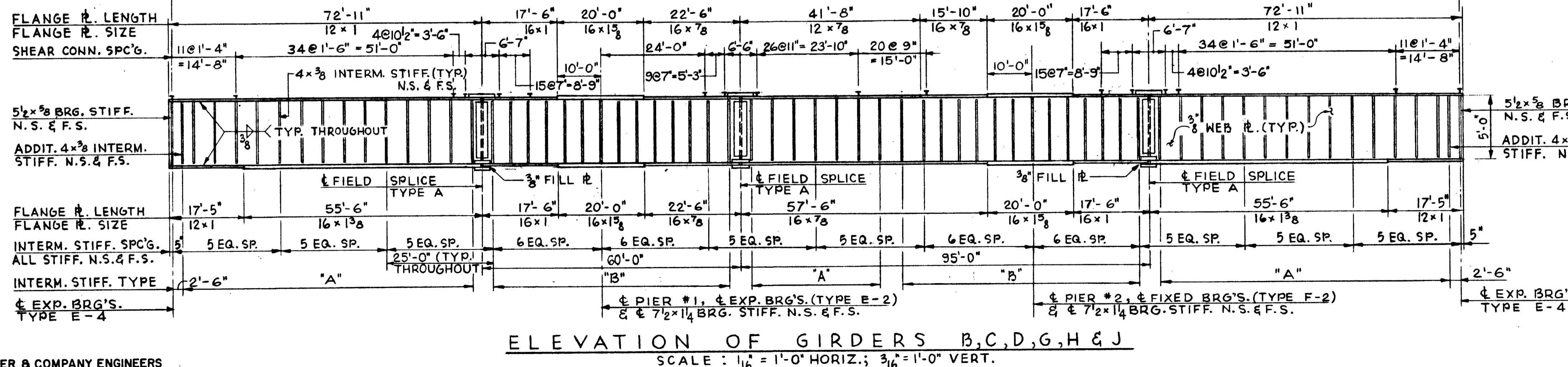
FOR GIRDER DESIGN DATA SEE SH. NO. 18  
 FOR EXPANSION BEARING DETAILS SEE SH. NO. 29.  
 FOR FIXED BEARING DETAILS SEE SH. NO. 30.  
 FOR GIRDER FIELD SPLICE DETAILS SEE SH. NO. 29.  
 FOR CROSS-FRAME DETAILS SEE SH. NO. 22.  
 FOR BEARING & INTERMEDIATE STIFFENER DETAILS SEE SH. NO. 22  
 STIFFENERS SHALL BE VERTICAL IN FINAL POSITION.  
 FOR SHEAR CONNECTOR DETAILS SEE SH. NO. 22. SHEAR CONNECTOR  
 SPACINGS SHALL BE MODIFIED AS NECESSARY TO CLEAR FLANGE SHOP  
 WELDINGS AND FIELD SPLICE CONNECTION BOLTS.  
 FOR GIRDER FLANGE AND WEB SHOP WELDED SPLICE DETAILS  
 SEE SH. NO. 22.  
 FOR GIRDER FLANGE WIDTH AND THICKNESS TRANSITION DETAILS  
 SEE SH. NO. 22.  
 ALL FLANGE AND WEB LENGTHS SHOWN ON GIRDER ELEVATIONS  
 ARE HORIZONTAL DIMENSIONS.  
 THE STUD SHEAR CONNECTORS ARE NOT PART OF THIS CONTRACT  
 BUT ARE SHOWN ON THE GIRDER ELEVATIONS FOR INFORMATION  
 ONLY. THE STUD SHEAR CONNECTORS SHALL BE FURNISHED AND  
 INSTALLED UNDER THE DECK CONTRACT (SECTION 81-ID).



**STRUCTURAL STEEL NOTES FOR UNIT 1 ONLY**

ALL STRUCTURAL STEEL SHALL BE ASTM-A36.  
 FOR GIRDER FABRICATION DIAGRAMS SEE SH. NO. 19.  
 FOR DETAIL OF EXPANSION GUARDS AT WEST ABUTMENT AND PIER #3  
 SEE SHEETS NOS. 24 & 25.

Note: GIRDERS A, E, F & K ARE IDENTICAL TO GIRDERS B, C, D, G, H & J.

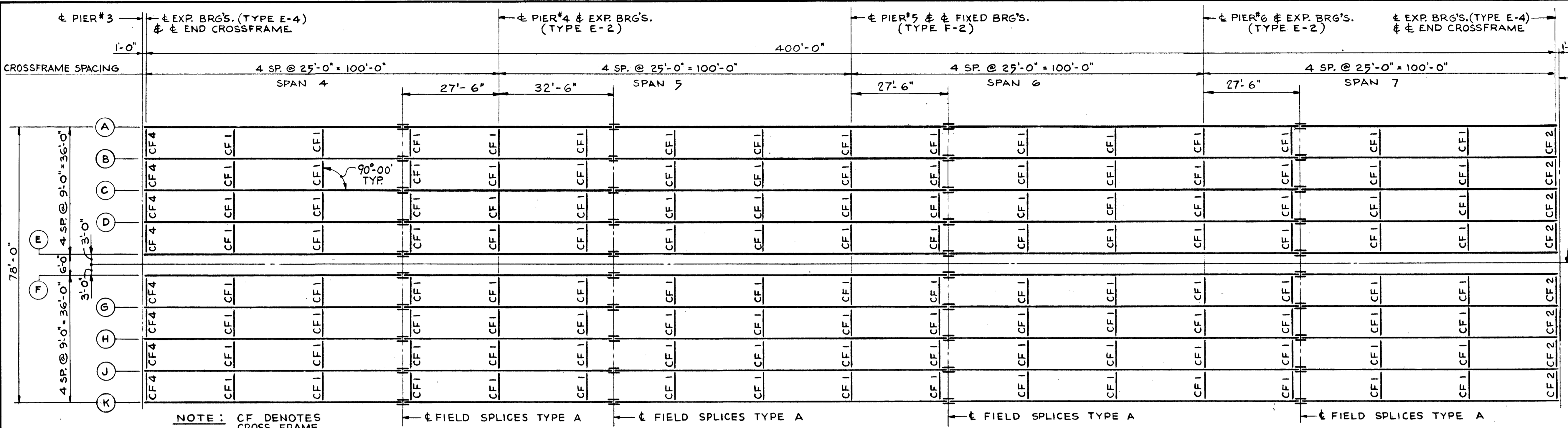


**FRAMING PLAN - UNIT 1**  
 F.A.I. ROUTE 280 SECTION 81-IF&E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY E. LANTSKI  
 DRAWN BY F. BOBINAS  
 CHECKED BY W.Y. HUO  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

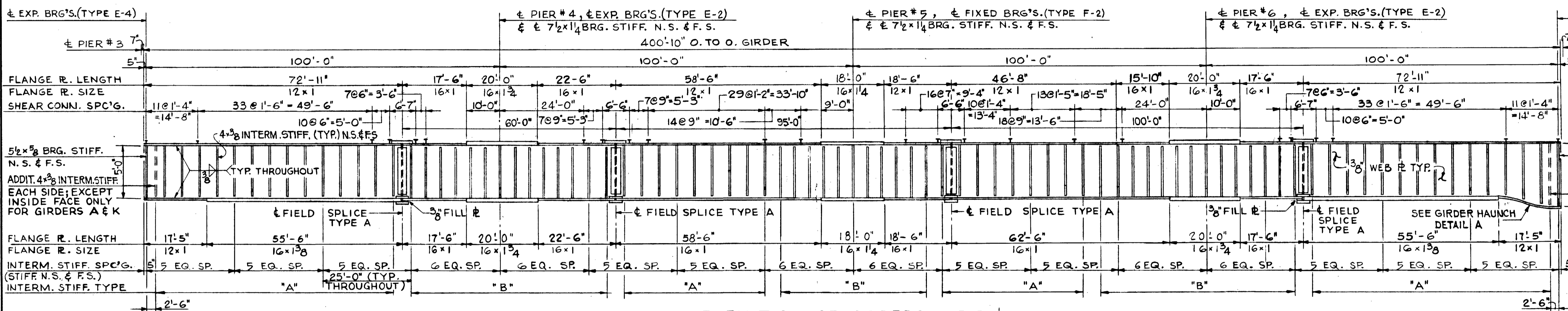


ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	9
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	

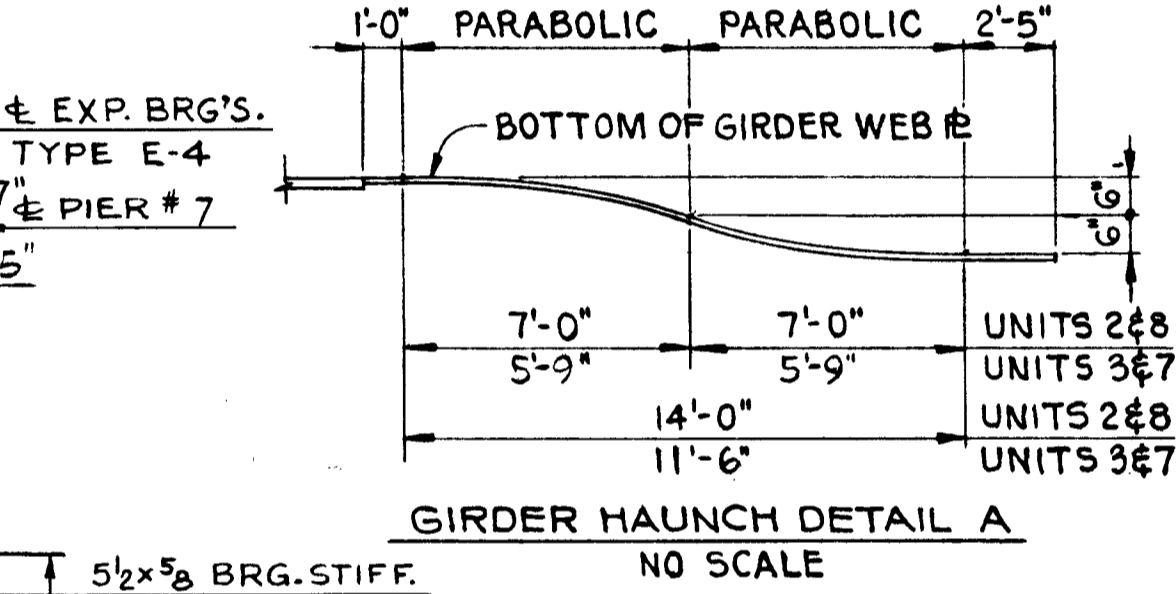


FRAMING PLAN (UNIT 2)  
SCALE: 1/16" = 1'-0"

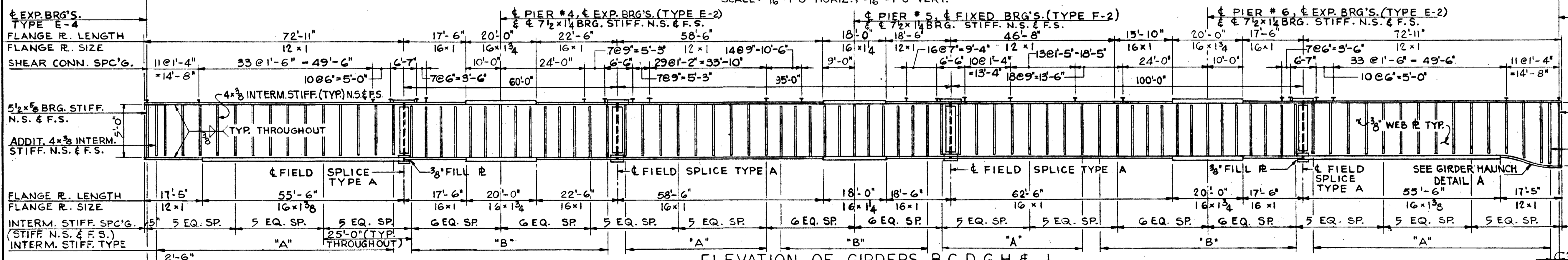
STRUCTURAL STEEL NOTES FOR UNIT 2  
ALL STRUCTURAL STEEL SHALL BE ASTM - A36.  
FOR GIRDER FABRICATION DIAGRAMS SEE SH. NO. 19.  
FOR DETAIL OF EXPANSION GUARDS AT PIERS # 3  
AND # 7 SEE SHEETS NO. 25 & 26.  
FOR STRUCTURAL STEEL NOTES FOR UNIT 1 THRU  
4 AND 6 THRU 9 SEE SH. NO. 8.



ELEVATION OF GIRDERS A, E, F & K  
SCALE: 1/16" = 1'-0" HORIZ.; 3/16" = 1'-0" VERT.



NOTE:  
THE STUD SHEAR CONNECTORS ARE NOT PART OF THIS CONTRACT BUT ARE SHOWN ON THE GIRDER ELEVATIONS FOR INFORMATION ONLY. THE STUD SHEAR CONNECTORS SHALL BE FURNISHED AND INSTALLED UNDER THE DECK CONTRACT (SECTION 81-1D).



ELEVATION OF GIRDERS B, C, D, G, H & J  
SCALE: 1/16" = 1'-0" HORIZ.; 3/16" = 1'-0" VERT.

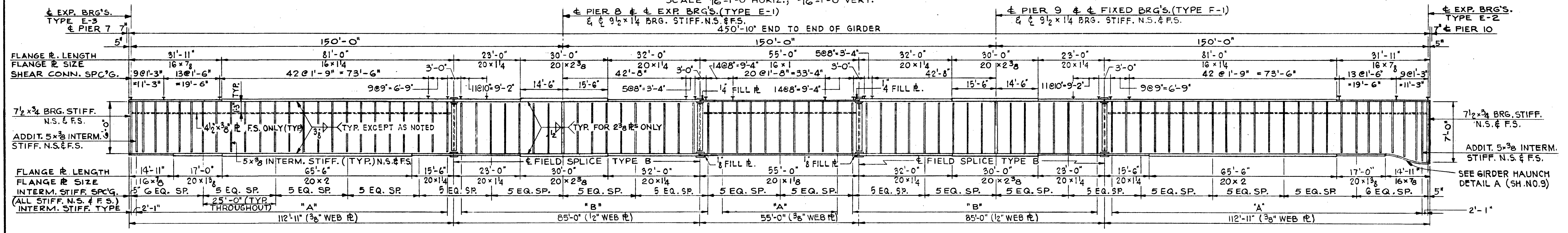
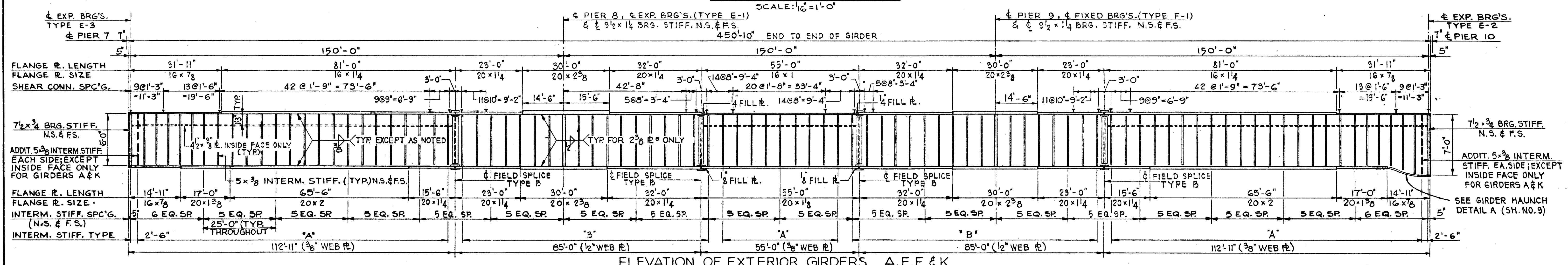
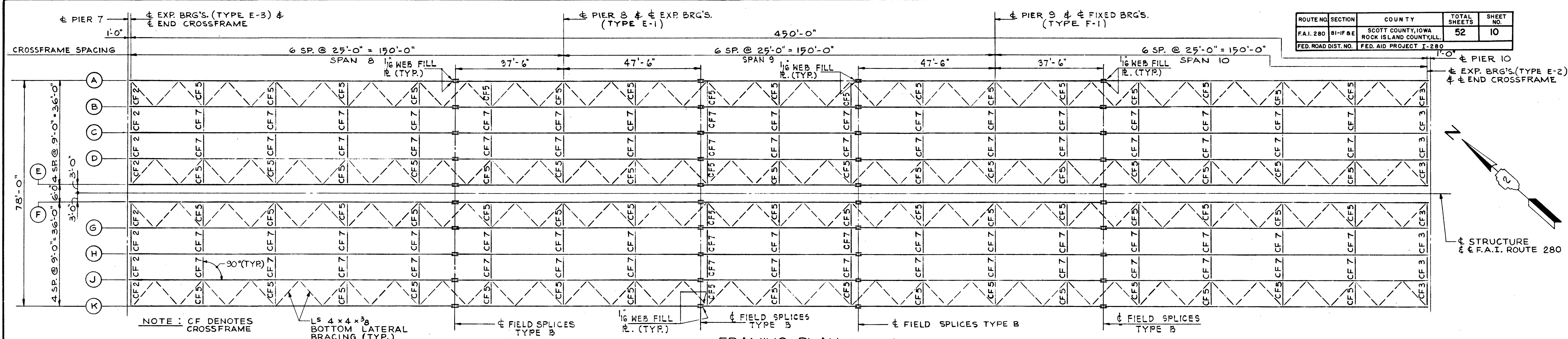
FRAMING PLAN - UNIT 2  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11+11.38 TO STA. 53+04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY: E. LANTSKI  
DRAWN BY: G. SCHWARTZ  
CHECKED: W. Y. HUO  
IN CHARGE: W. J. ZAPFEL  
APPROVED: W. G. HORN

NOTE:  
GIRDERS A, E, F & K ARE IDENTICAL TO GIRDERS B, C, D, G, H & J.



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	10
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		



**STRUCTURAL STEEL NOTES FOR UNIT 3**

ALL STRUCTURAL STEEL SHALL BE ASTM - A36.  
 FOR GIRDER FABRICATION DIAGRAMS SEE SHEET NO. 20.  
 FOR DETAIL OF EXPANSION GUARDS AT PIERS #7 & #10 SEE SHEETS NO. 26 & NO. 25 RESPECTIVELY.  
 FOR BOTTOM BRACING & LONGITUDINAL STIFFENER DETAILS SEE SH'S. NO. 23 & NO. 22.  
 FOR STRUCTURAL STEEL NOTES FOR UNITS 1 THRU 4 AND 6 THRU 9, SEE SHEET NO. 8.  
 GIRDERS A, E, F & K ARE IDENTICAL TO GIRDERS B, C, D, G, H & J.

**FRAMING PLAN - UNIT 3**

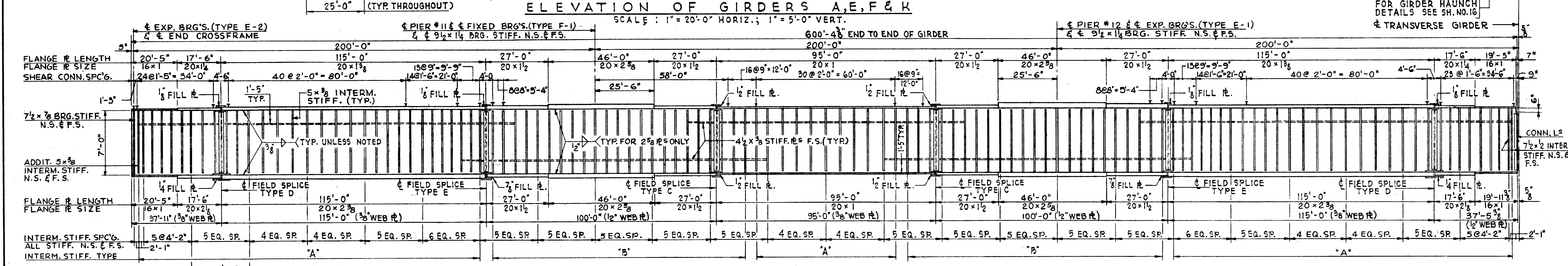
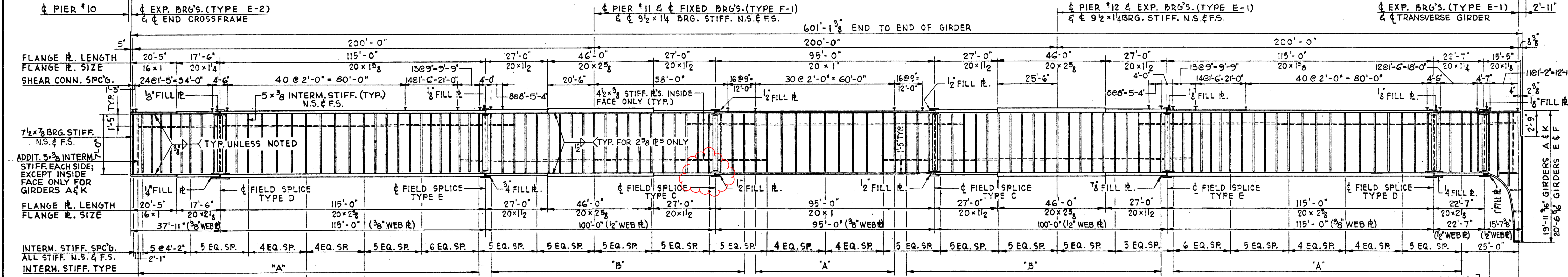
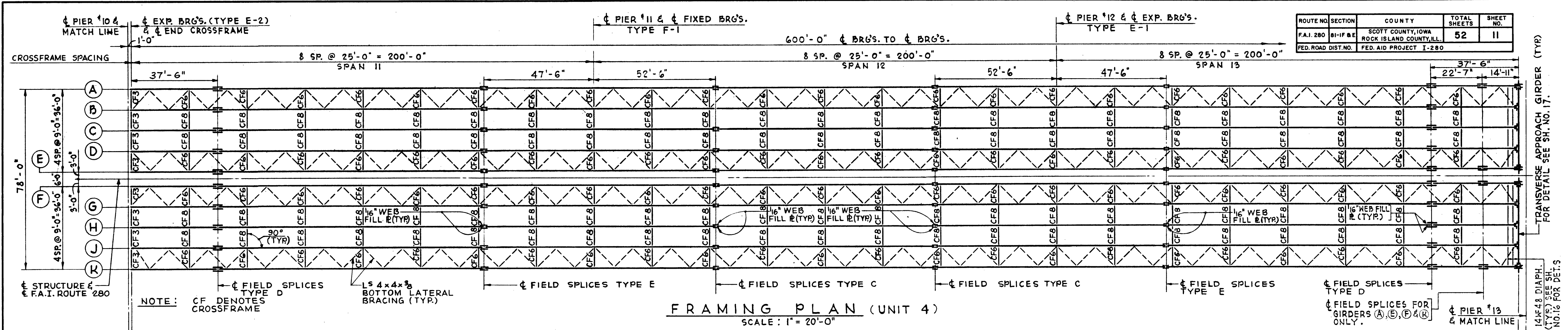
F.A.I. ROUTE 280 SECTION 81-IF&E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY E. LANTSKI  
 DRAWN BY G. SCHWARTZ  
 CHECKED W.Y. HUO  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

**NOTE:** THE STUD SHEAR CONNECTORS ARE NOT PART OF THIS CONTRACT BUT ARE SHOWN ON THE GIRDER ELEVATIONS FOR INFORMATION ONLY. THE STUD SHEAR CONNECTORS SHALL BE FURNISHED AND INSTALLED UNDER THE DECK CONTRACT (SECTION 81-1D).



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF & E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	11
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



**STRUCTURAL STEEL NOTES FOR UNIT 4**

ALL STRUCTURAL STEEL IN THIS UNIT SHALL BE ASTM - A588 EXCEPT FOR CROSS FRAMES, INTERMEDIATE STIFFENERS, LONGITUDINAL STIFFENERS & END DIAPHRAGMS STRUCTURAL STEEL ASTM - A96 SHALL BE USED.

FOR GIRDER FABRICATION DIAGRAMS SEE SH. NO. 21.

FOR DETAIL OF EXPANSION GUARDS AT PIERS NO. 10 & NO. 13 SEE SH'S. NO. 25 & NO. 27 RESPECTIVELY.

FOR BOTTOM BRACING & LONGITUDINAL STIFFENER DETAILS SEE SH'S NO. 23 & NO. 22 RESPECTIVELY.

FOR STRUCTURAL STEEL NOTES FOR UNITS 1 THRU 4 AND 6 THRU 9 SEE SH. NO. 8.

**FRAMING PLAN - UNIT 4**

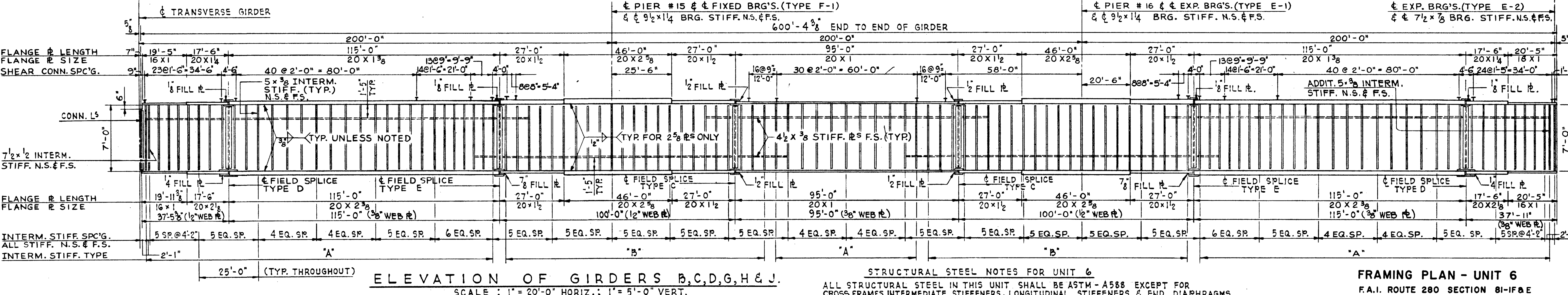
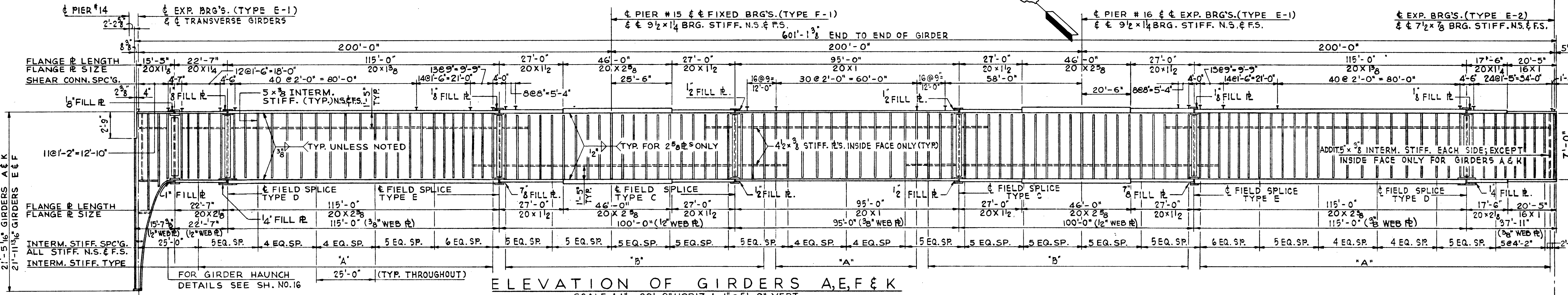
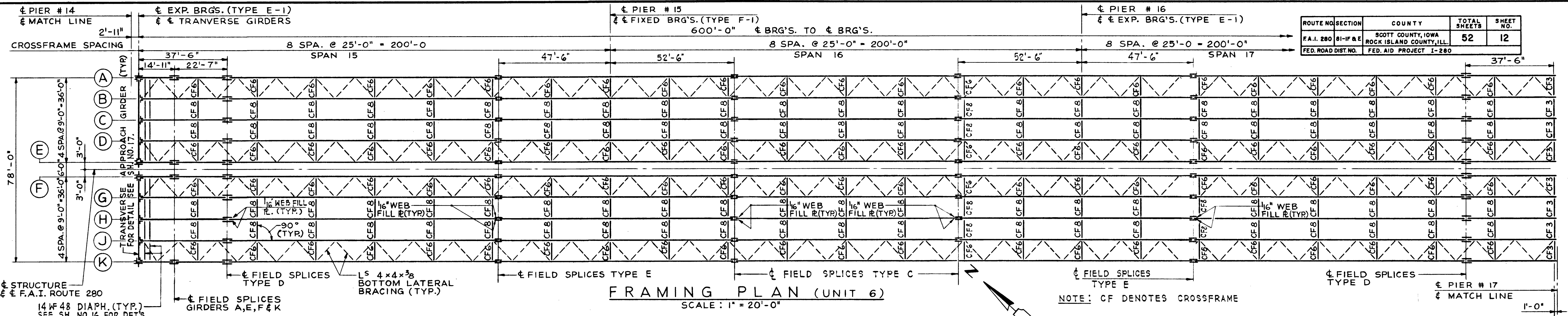
F.A.I. ROUTE 280 SECTION 81-IF & E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. LANTSKI  
DRAWN BY G. SCHWARTZ  
CHECKED W.Y. HUO  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

**NOTE:** THE STUD SHEAR CONNECTORS ARE NOT PART OF THIS CONTRACT BUT ARE SHOWN ON THE GIRDER ELEVATIONS FOR INFORMATION ONLY. THE STUD SHEAR CONNECTORS SHALL BE FURNISHED AND INSTALLED UNDER THE DECK CONTRACT (SECTION 81-ID).



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	12
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		



**STRUCTURAL STEEL NOTES FOR UNIT 6**

ALL STRUCTURAL STEEL IN THIS UNIT SHALL BE ASTM - A588 EXCEPT FOR CROSSFRAMES, INTERMEDIATE STIFFENERS, LONGITUDINAL STIFFENERS & END DIAPHRAGMS STRUCTURAL STEEL ASTM - A36 SHALL BE USED.

FOR GIRDER FABRICATION DIAGRAMS SEE SH. NO. 21.

FOR DETAIL OF EXPANSION GUARDS AT PIERS #14 & #17 SEE SH'S. NO. 27 & 26 RESPECTIVELY.

FOR BOTTOM BRACING & LONGITUDINAL STIFFENER DETAILS SEE SH'S. NO. 23 & NO. 22 RESPECTIVELY.

FOR STRUCTURAL STEEL NOTES FOR UNITS 1 THRU 4 AND 6 THRU 9, SEE SH. NO. 8.

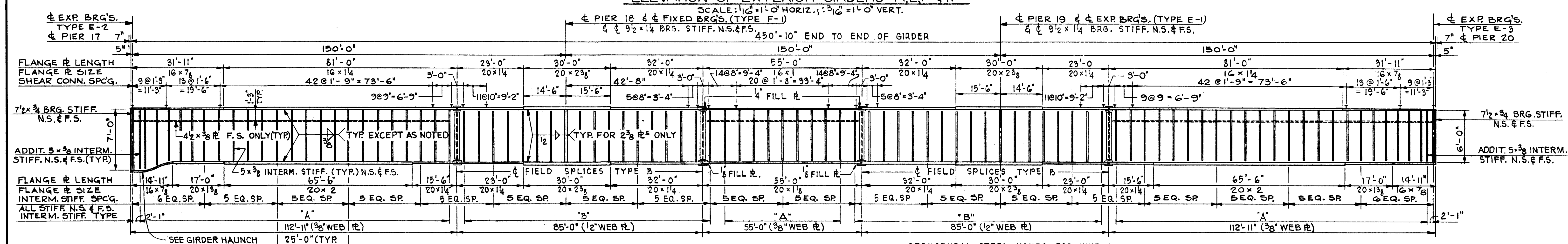
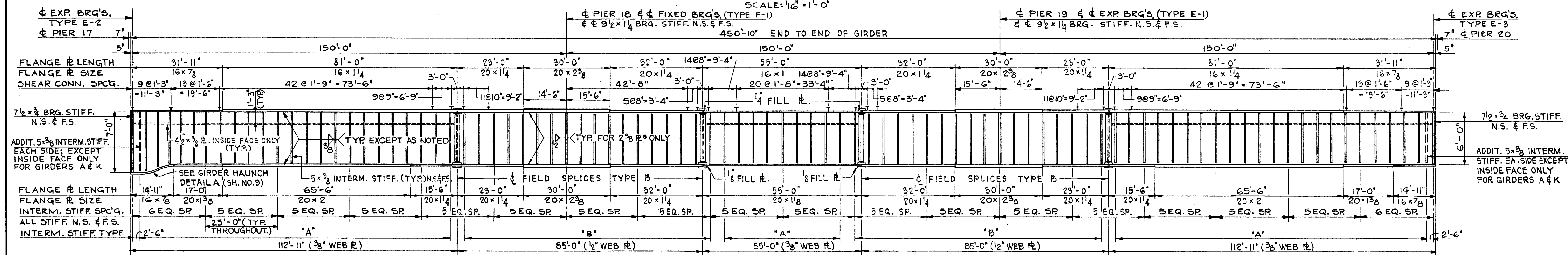
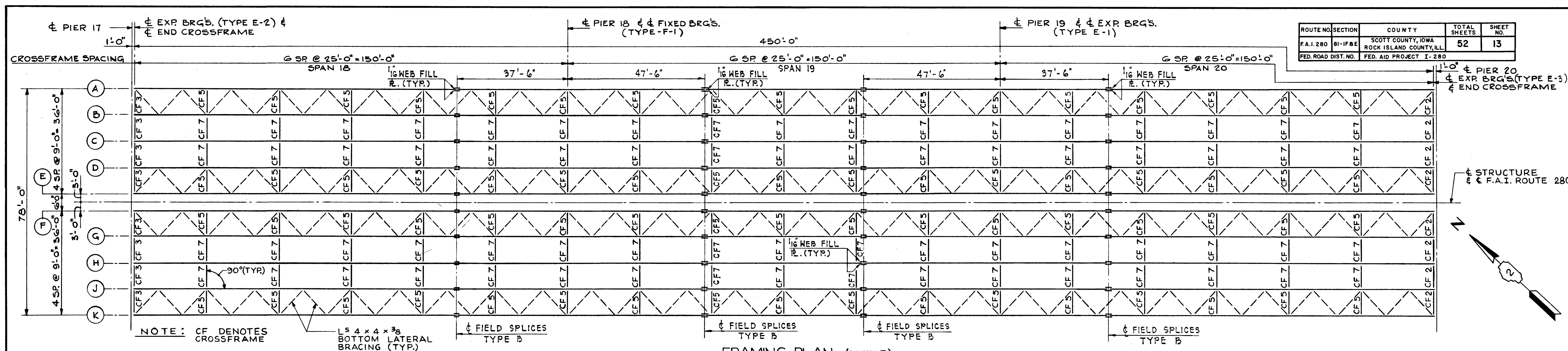
**FRAMING PLAN - UNIT 6**  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. LANTSKI  
DRAWN BY G. SCHWARTZ  
CHECKED W. Y. HUO  
IN CHARGE W. J. ZAPFEL  
APPROVED W. G. HORN

NOTE: THE STUD SHEAR CONNECTORS ARE NOT PART OF THIS CONTRACT BUT ARE SHOWN ON THE GIRDER ELEVATIONS FOR INFORMATION ONLY. THE STUD SHEAR CONNECTORS SHALL BE FURNISHED AND INSTALLED UNDER THE DECK CONTRACT (SECTION 81-ID).



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	13
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		



**STRUCTURAL STEEL NOTES FOR UNIT 7**

ALL STRUCTURAL STEEL SHALL BE ASTM - A36  
FOR GIRDER FABRICATION DIAGRAMS SEE SHEET NO. 20.  
FOR DETAIL OF EXPANSION GUARDS AT PIERS #17 & #20 SEE SH. NO. 26.  
FOR BOTTOM BRACING AND LONGITUDINAL STIFFENER DETAILS SEE SHEETS NO. 22 AND NO. 23 RESPECTIVELY.  
FOR STRUCTURAL STEEL NOTES FOR UNITS 1 THRU 4 AND 6 THRU 9 SEE SHEET NO. 8.  
GIRDERS A, E, F & K ARE IDENTICAL TO GIRDERS B, C, D, G, H & J.

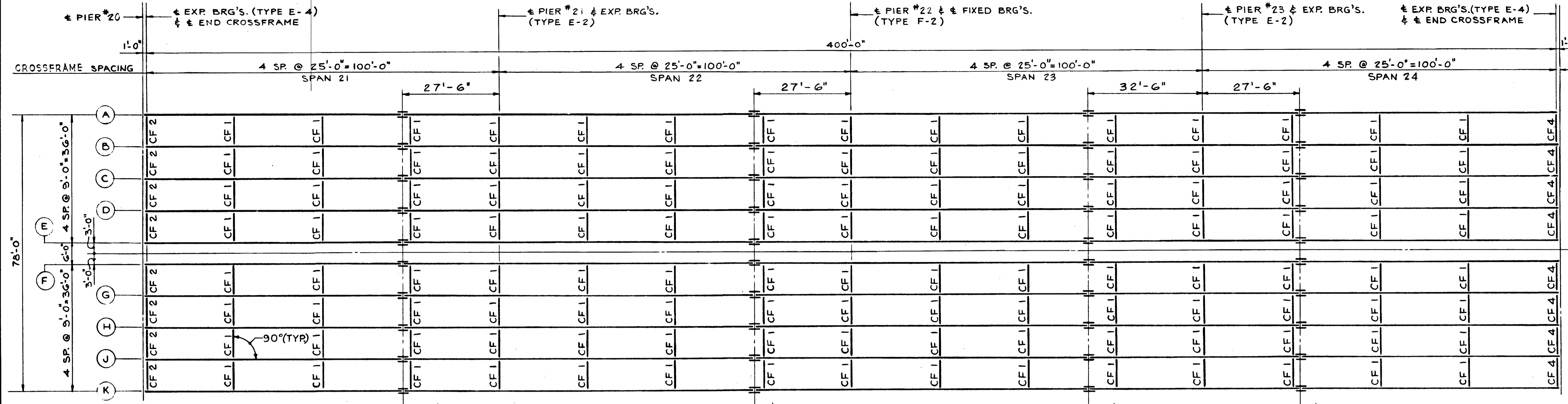
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. LANTSKI  
DRAWN BY G. SCHWARTZ  
CHECKED W.Y. HUO  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

NOTE: THE STUD SHEAR CONNECTORS ARE NOT PART OF THIS CONTRACT BUT ARE SHOWN ON THE GIRDER ELEVATIONS FOR INFORMATION ONLY. THE STUD SHEAR CONNECTORS SHALL BE FURNISHED AND INSTALLED UNDER THE DECK CONTRACT (SECTION 81-ID).

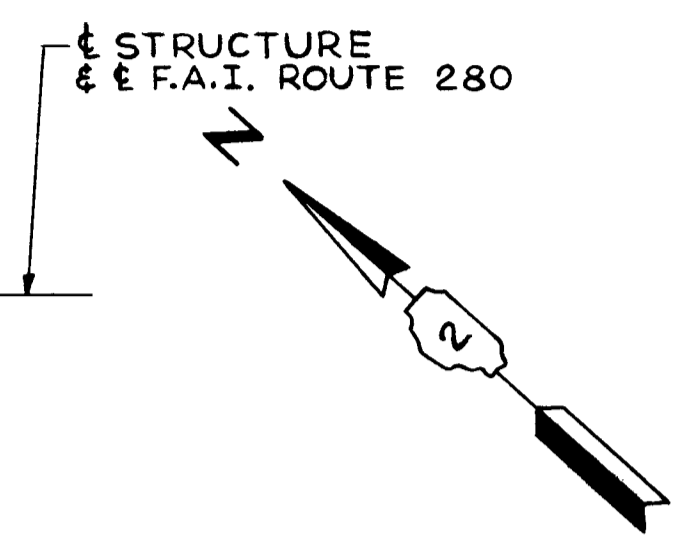
**FRAMING PLAN - UNIT 7**  
FA.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970



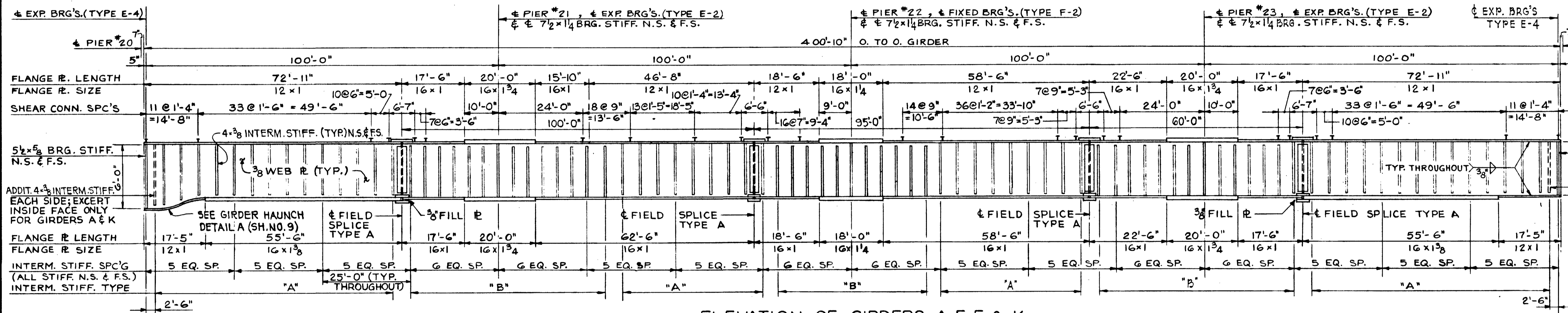
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	14
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



FRAMING PLAN (UNIT 8)  
SCALE: 1/16"=1'-0"

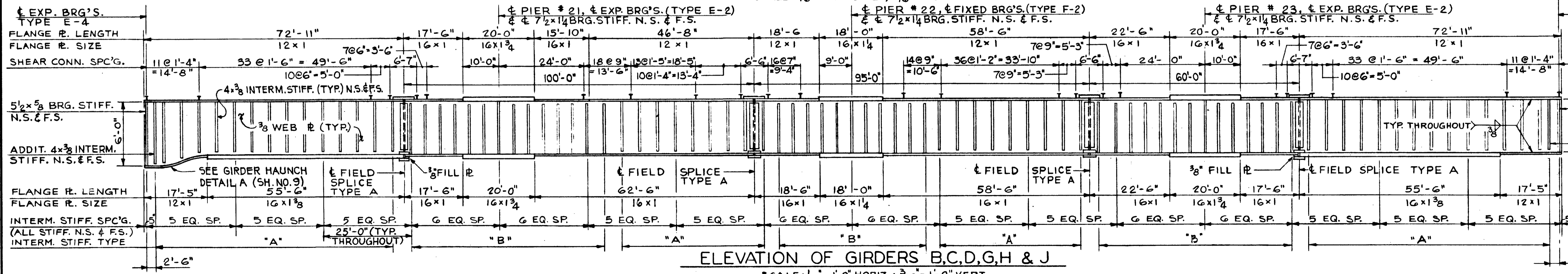


STRUCTURAL STEEL NOTES FOR UNIT 8  
ALL STRUCTURAL STEEL SHALL BE ASTM - A36  
FOR GIRDER FABRICATION DIAGRAMS SEE SH. NO. 19.  
FOR DETAIL OF EXPANSION GUARDS AT PIERS #20 AND #24 SEE SHEETS NO. 25 & NO. 26.  
FOR STRUCTURAL STEEL NOTES FOR UNITS 1 THRU 4 AND 6 THRU 9 SEE SH. NO. 8.  
GIRDERS A, E, F & K ARE IDENTICAL TO GIRDERS B, C, D, G, H & J.



ELEVATION OF GIRDERS A, E, F & K  
SCALE: 1/16"=1'-0" HORIZ.; 3/16"=1'-0" VERT.

NOTE:  
THE STUD SHEAR CONNECTORS ARE NOT PART OF THIS CONTRACT BUT ARE SHOWN ON THE GIRDER ELEVATIONS FOR INFORMATION ONLY. THE STUD SHEAR CONNECTORS SHALL BE FURNISHED AND INSTALLED UNDER THE DECK CONTRACT (SECTION 81-ID).



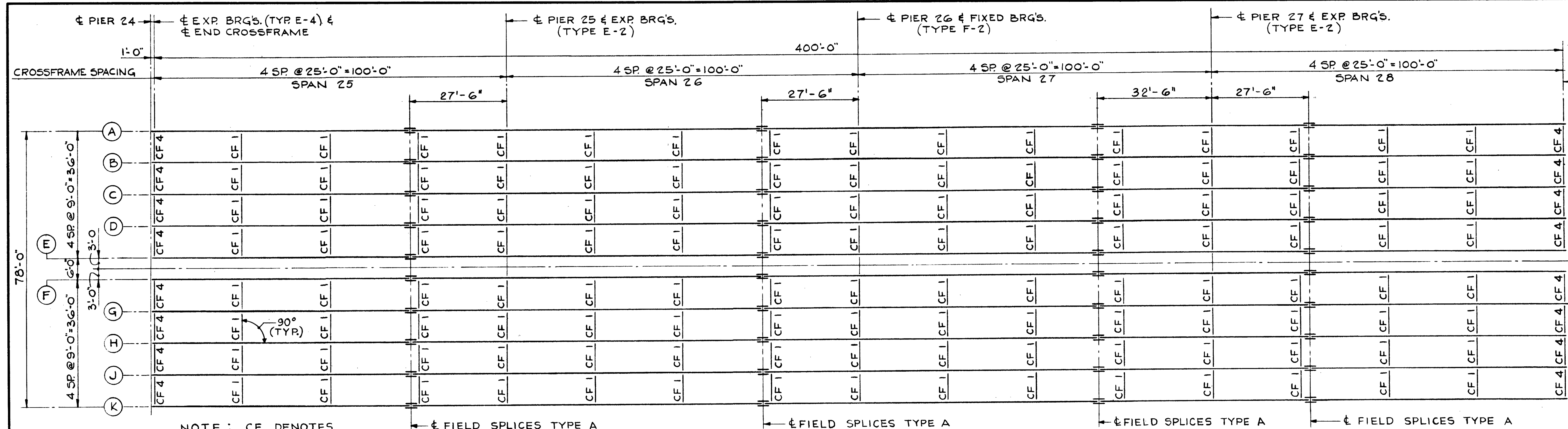
ELEVATION OF GIRDERS B, C, D, G, H & J  
SCALE: 1/16"=1'-0" HORIZ.; 3/16"=1'-0" VERT.

FRAMING PLAN - UNIT 8  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. LANTSKI  
DRAWN BY G. SCHWARTZ  
CHECKED W. Y. HUO  
IN CHARGE W. J. ZAPFEL  
APPROVED W. G. HORN



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	15
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



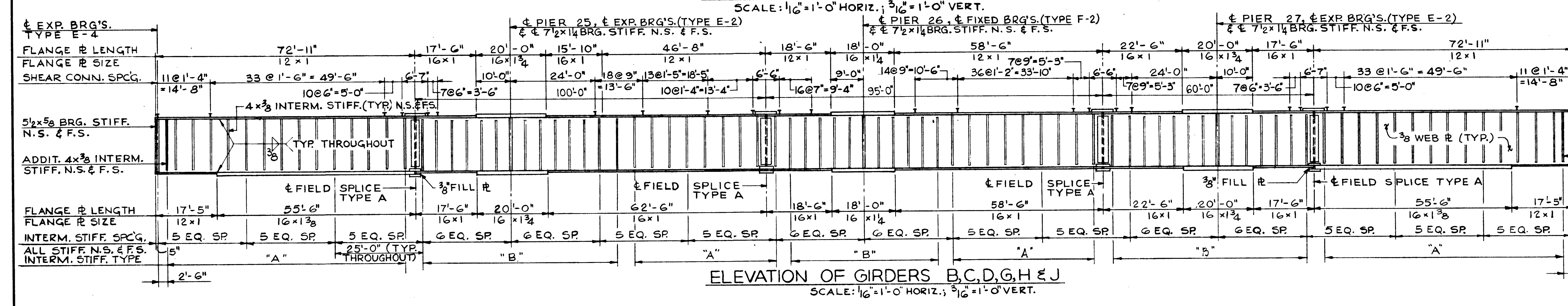
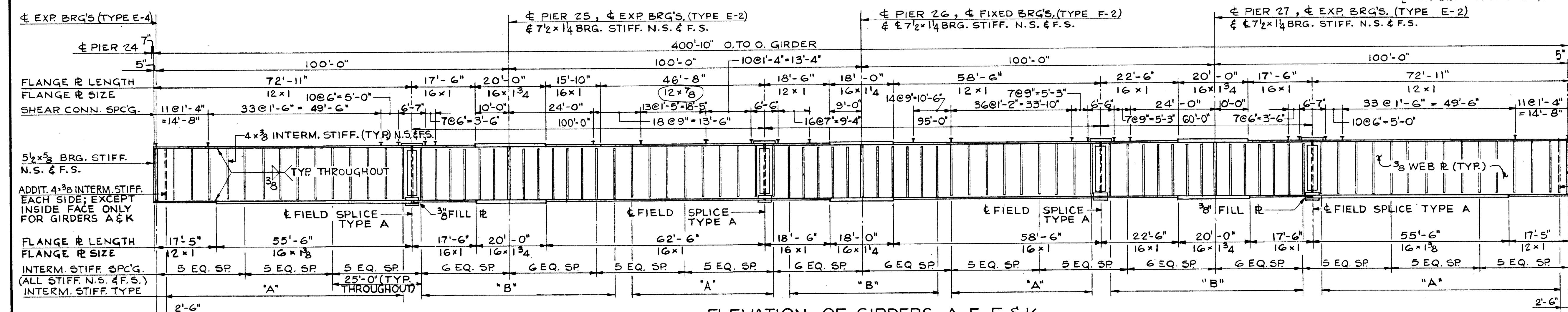
BRG. EAST ABUTMENT & EXP BRG'S. (TYPE E-4) & END CROSSFRAME

STRUCTURE & F.A.I. ROUTE 280

**STRUCTURAL STEEL NOTES FOR UNIT 9**

ALL STRUCTURAL STEEL SHALL BE ASTM-A36 FOR GIRDER FABRICATION DIAGRAM SEE SH. NO. 19. FOR DETAIL OF EXPANSION GUARDS AT PIER 24 AND EAST ABUTMENT SEE SHEET NO. 24 & 25. FOR STRUCTURAL STEEL NOTES FOR UNITS 1 THRU 4 AND 6 THRU 9 SEE SH. NO. 8.

THE STUD SHEAR CONNECTORS ARE NOT PART OF THIS CONTRACT BUT ARE SHOWN ON THE GIRDER ELEVATIONS FOR INFORMATION ONLY. THE STUD SHEAR CONNECTORS SHALL BE FURNISHED AND INSTALLED UNDER THE DECK CONTRACT (SECTION 81-1D). GIRDERS A, E, F & K ARE IDENTICAL TO GIRDERS B, C, D, G, H & J.

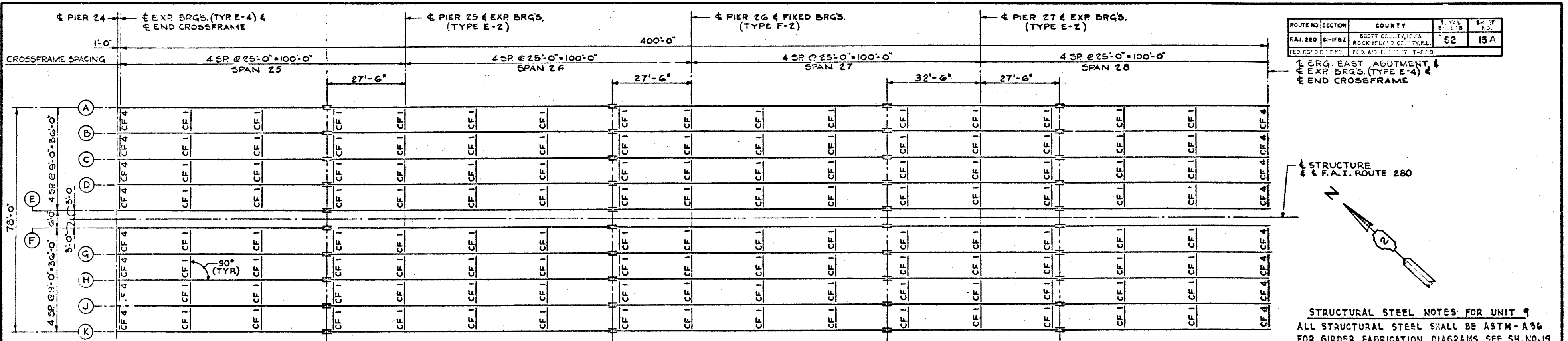


5/2 x 5/8 BRG. STIFF. N.S. & F.S.  
ADDIT. 4 x 3/8 INTERM. STIFF. EACH SIDE; EXCEPT INSIDE FACE ONLY FOR GIRDERS A & K

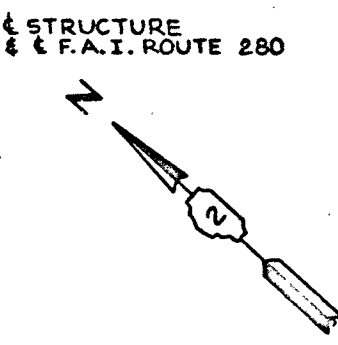
5/2 x 5/8 BRG. STIFF. N.S. & F.S.  
ADDIT. 4 x 3/8 INTERM. STIFF. N.S. & F.S.

**FRAMING PLAN - UNIT 9**  
F.A.I. ROUTE 280 SECTION 81-IF&E  
1-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11+11.38 TO STA. 53+04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. LANTSKI  
DRAWN BY G. SCHWARTZ  
CHECKED W. Y. HUO  
IN CHARGE W. J. ZAPFEL  
APPROVED W. G. HORN



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1F&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	15A
FED. ROAD DIST. NO.	FED. ROAD DIST. NO.	FED. ROAD DIST. NO.		

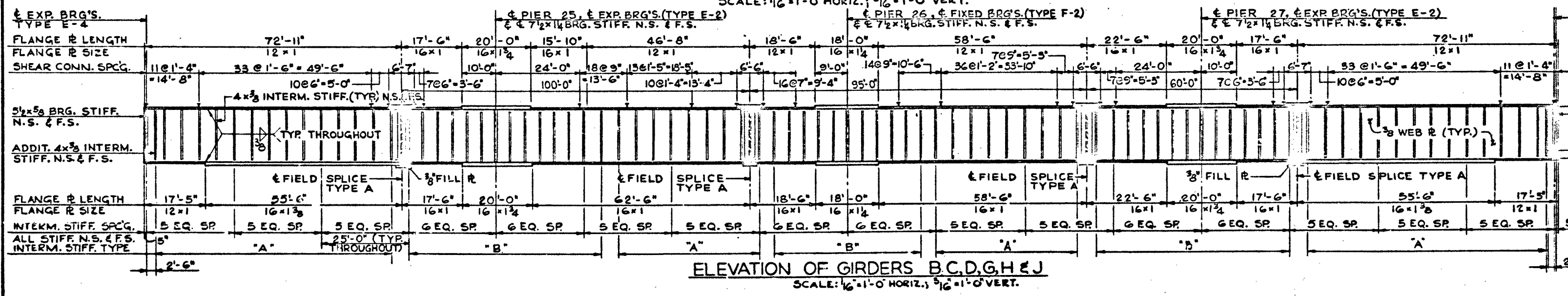
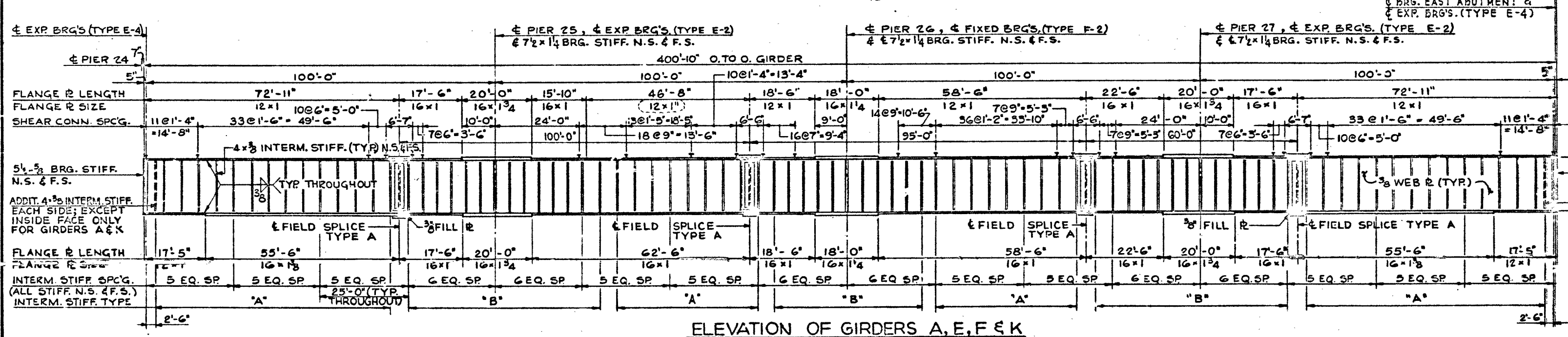


**STRUCTURAL STEEL NOTES FOR UNIT 9**

ALL STRUCTURAL STEEL SHALL BE ASTM-A36 FOR GIRDER FABRICATION DIAGRAMS SEE SH. NO. 19. FOR DETAIL OF EXPANSION GUARDS AT PIER 24 AND EAST ABUTMENT SEE SHEET NO. 24 & 25. FOR STRUCTURAL STEEL NOTES FOR UNITS 1 THRU 4 AND 6 THRU 9 SEE SH. NO. 8.

THE STUD SHEAR CONNECTORS ARE NOT PART OF THIS CONTRACT BUT ARE SHOWN ON THE GIRDER ELEVATIONS FOR INFORMATION ONLY. THE STUD SHEAR CONNECTORS SHALL BE FURNISHED AND INSTALLED UNDER THE DECK CONTRACT (SECTION 81-1D).

GIRDERS A, E, F & K ARE IDENTICAL TO GIRDERS B, C, D, G, H & J.

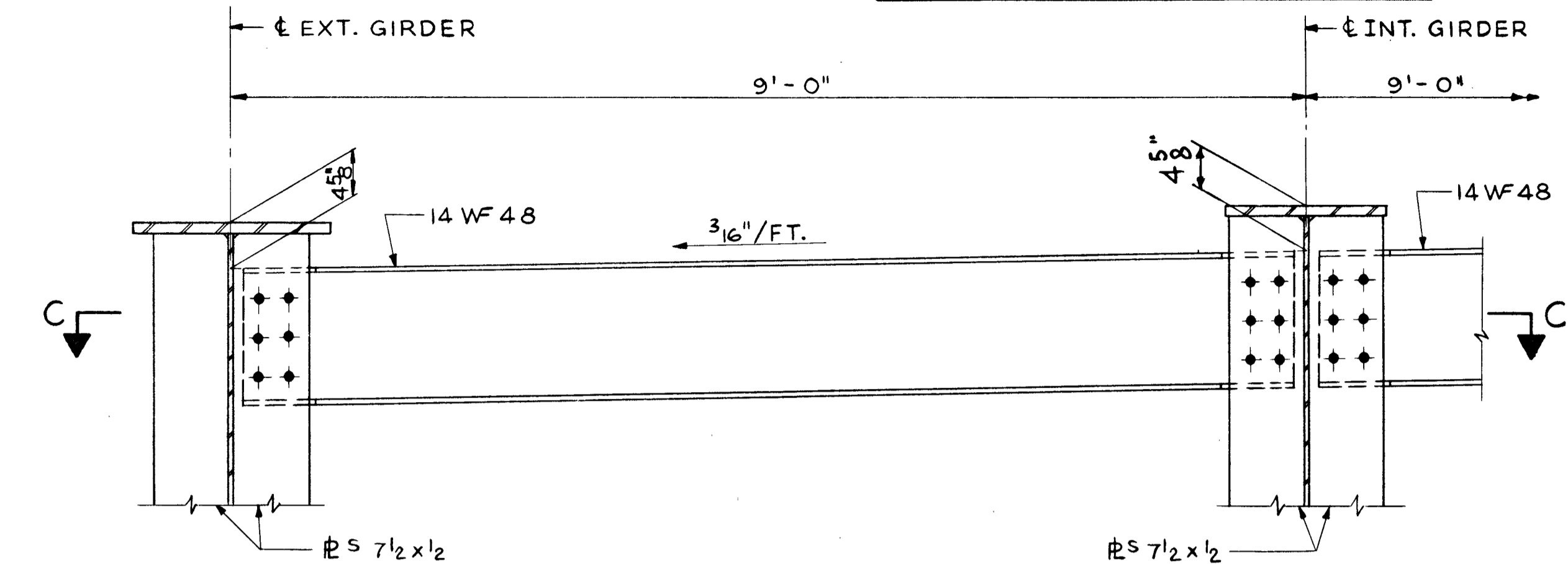
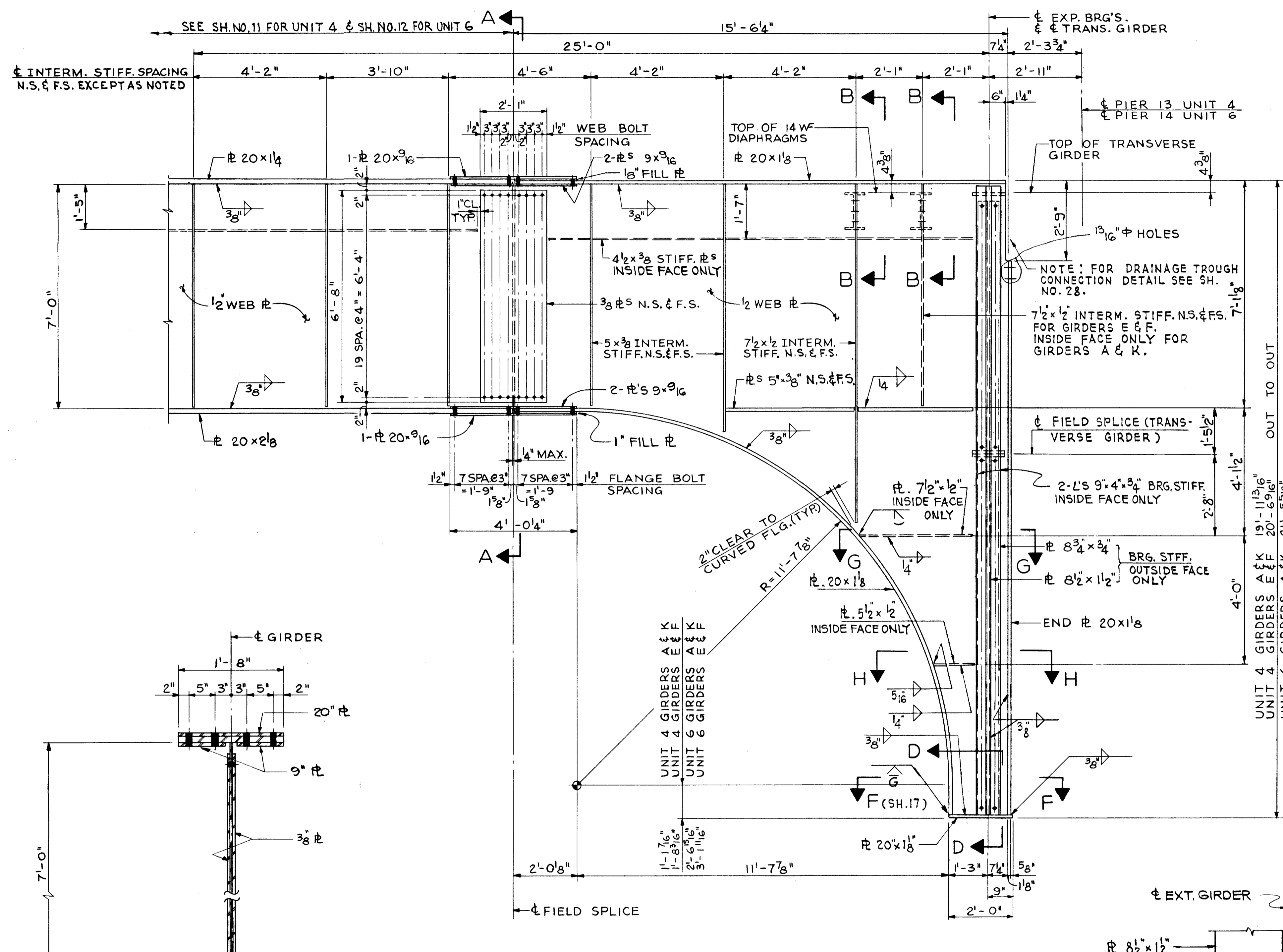


DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY: E. J. LAUTSKI  
DRAWN BY: G. SCHWARTZ  
CHECKED: W. Y. HAYES  
IN CHARGE: W. J. ZAPFEL  
APPROVED: W. G. HORN

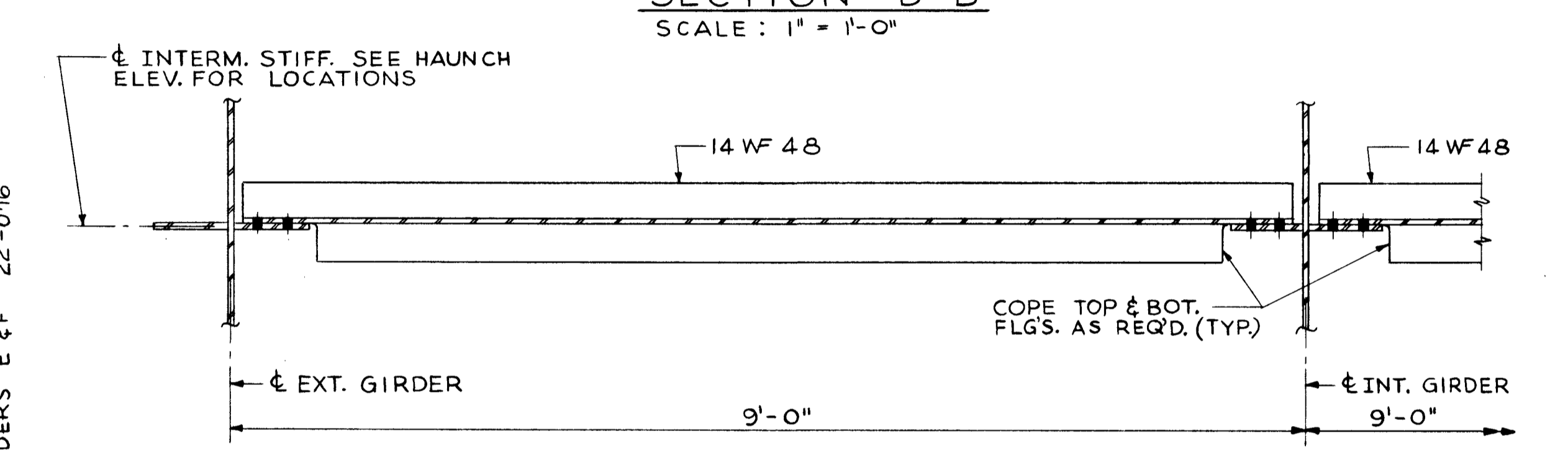
**FRAMING PLAN - UNIT 9**  
F.A.I. ROUTE 280 SECTION 81-1F&E  
1-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11+11.38 TO STA. 53+04.38  
SCALE: AS NOTED DATE: OCT 1, 1970



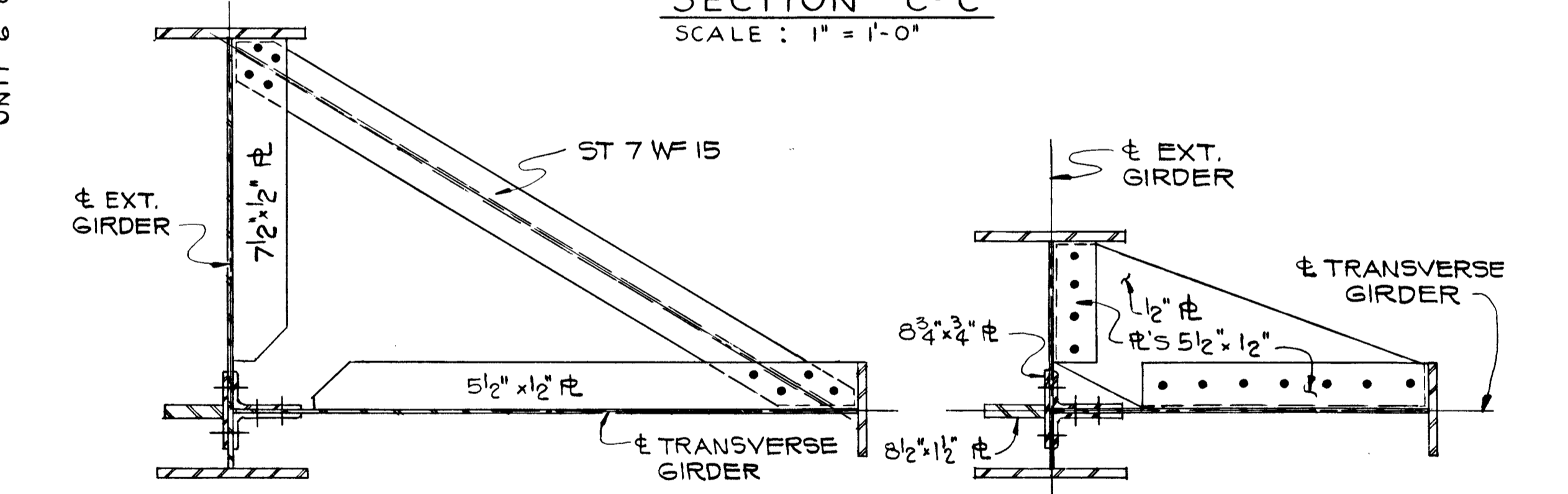
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	16
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



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

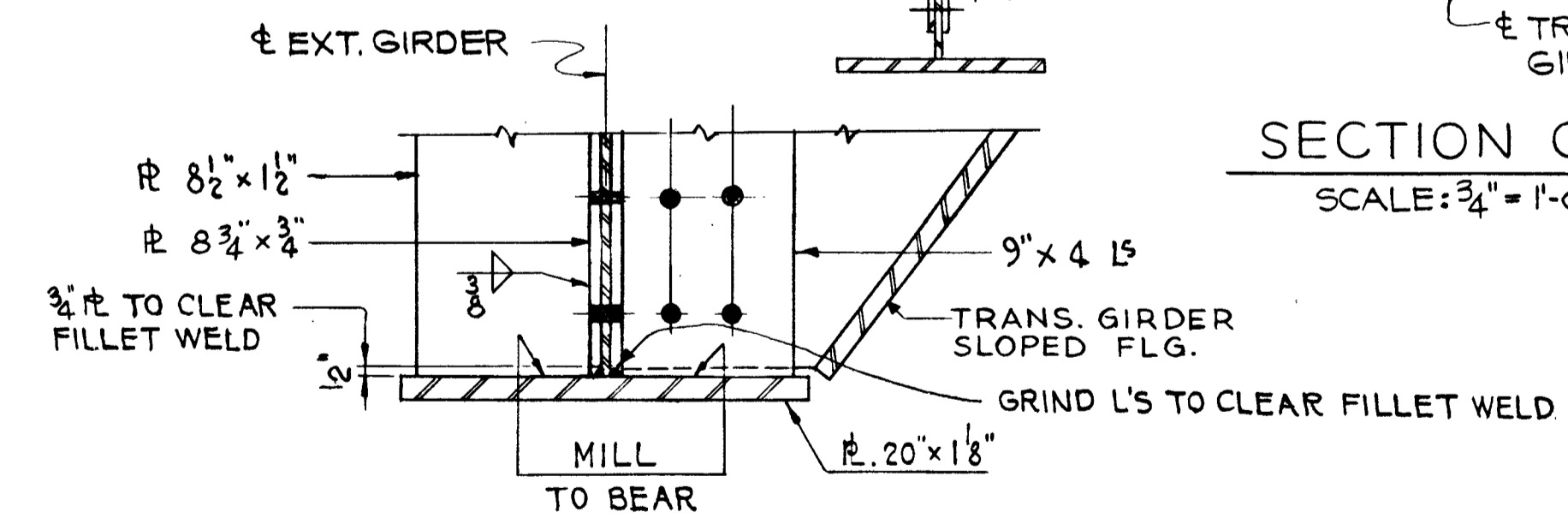


SECTION C-C  
SCALE: 1" = 1'-0"



SECTION G-G  
SCALE: 3/4" = 1'-0"

SECTION H-H  
SCALE: 3/4" = 1'-0"



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

HAUNCH ELEVATION - GIRDERS A, E, F & K  
(EAST END OF UNIT 4 & WEST END OF UNIT 6)  
SCALE: 1/2" = 1'-0"

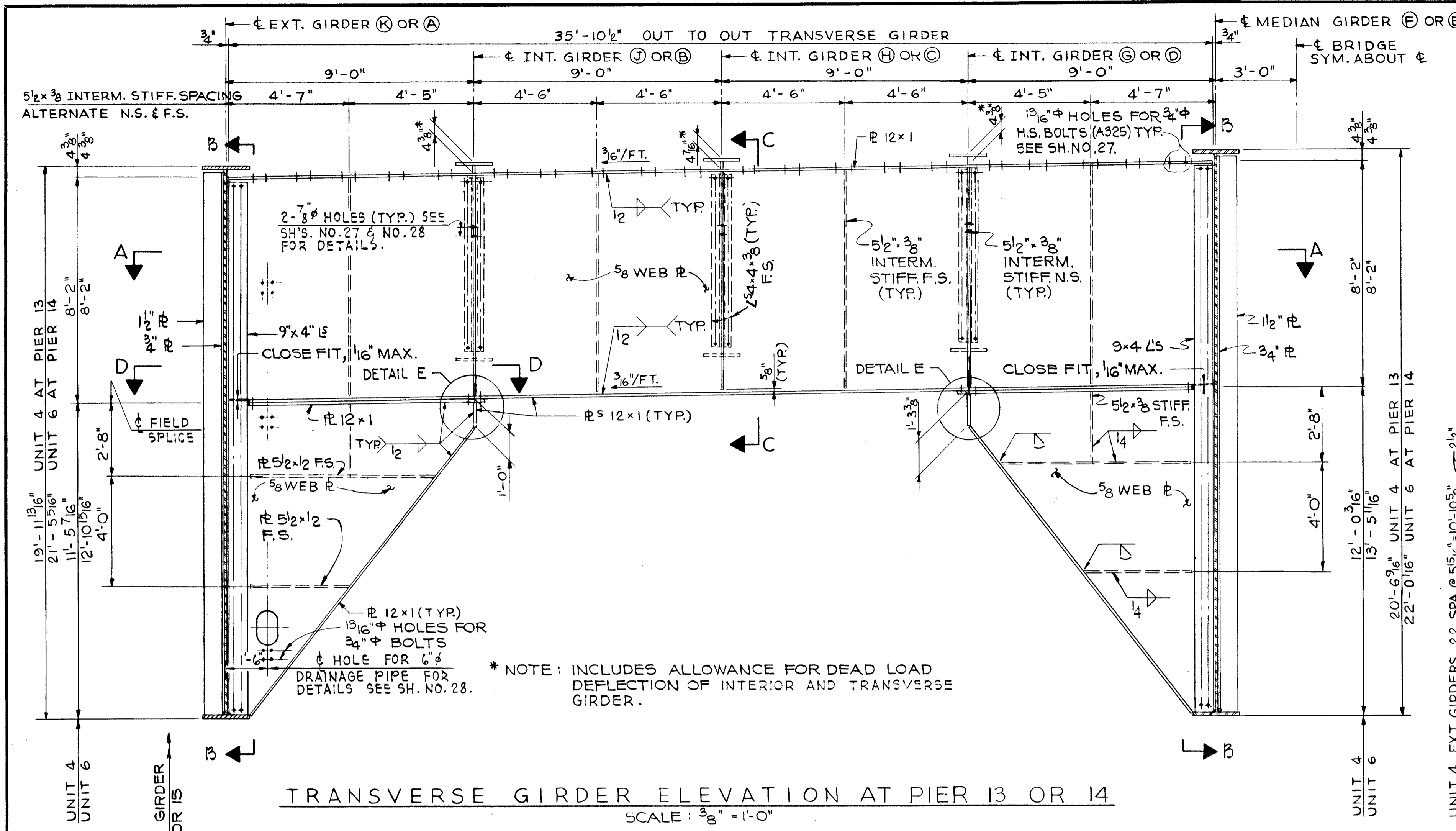
NOTES:  
FOR FRAMING PLAN UNITS 4 & 6 SEE SH. NO. 11 & 12.  
FOR STRUCTURAL STEEL NOTES SEE SHEET NO. 11 & 12.  
ALL FASTENERS FOR CONNECTIONS SHALL BE HIGH STRENGTH BOLTS A.S.T.M. A325; BOLTS 7/8" Ø; OPEN HOLES 1 5/16" Ø EXCEPT AS NOTED.  
WORK THIS SHEET WITH SHEETS NO. 17 & NO. 28.

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

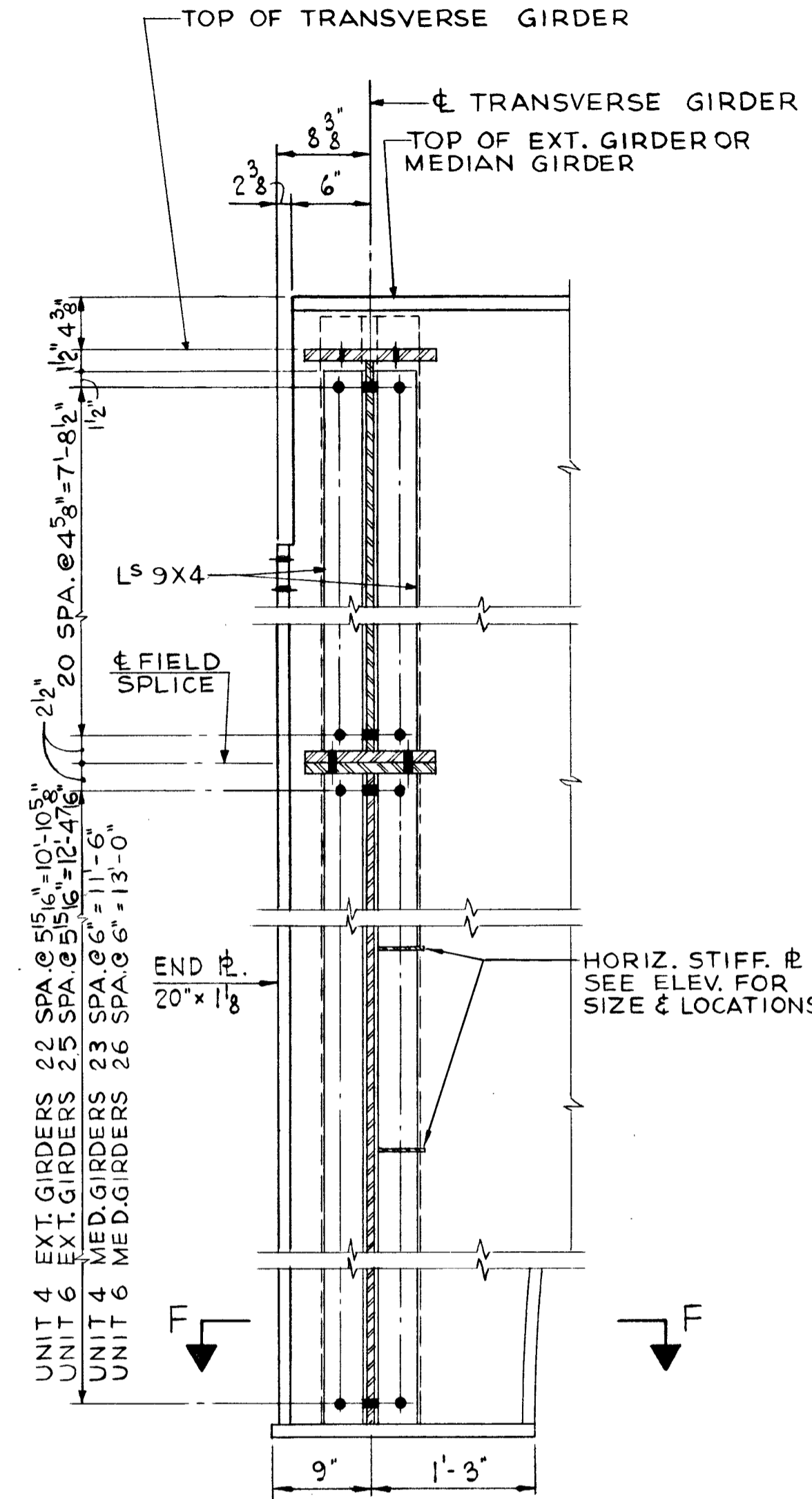
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.Y. HUO  
DRAWN BY G. SCHWARTZ  
CHECKED J.Y. HUANG  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

HAUNCH DETAILS  
GIRDERS A, E, F AND K  
UNITS 4 AND 6  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

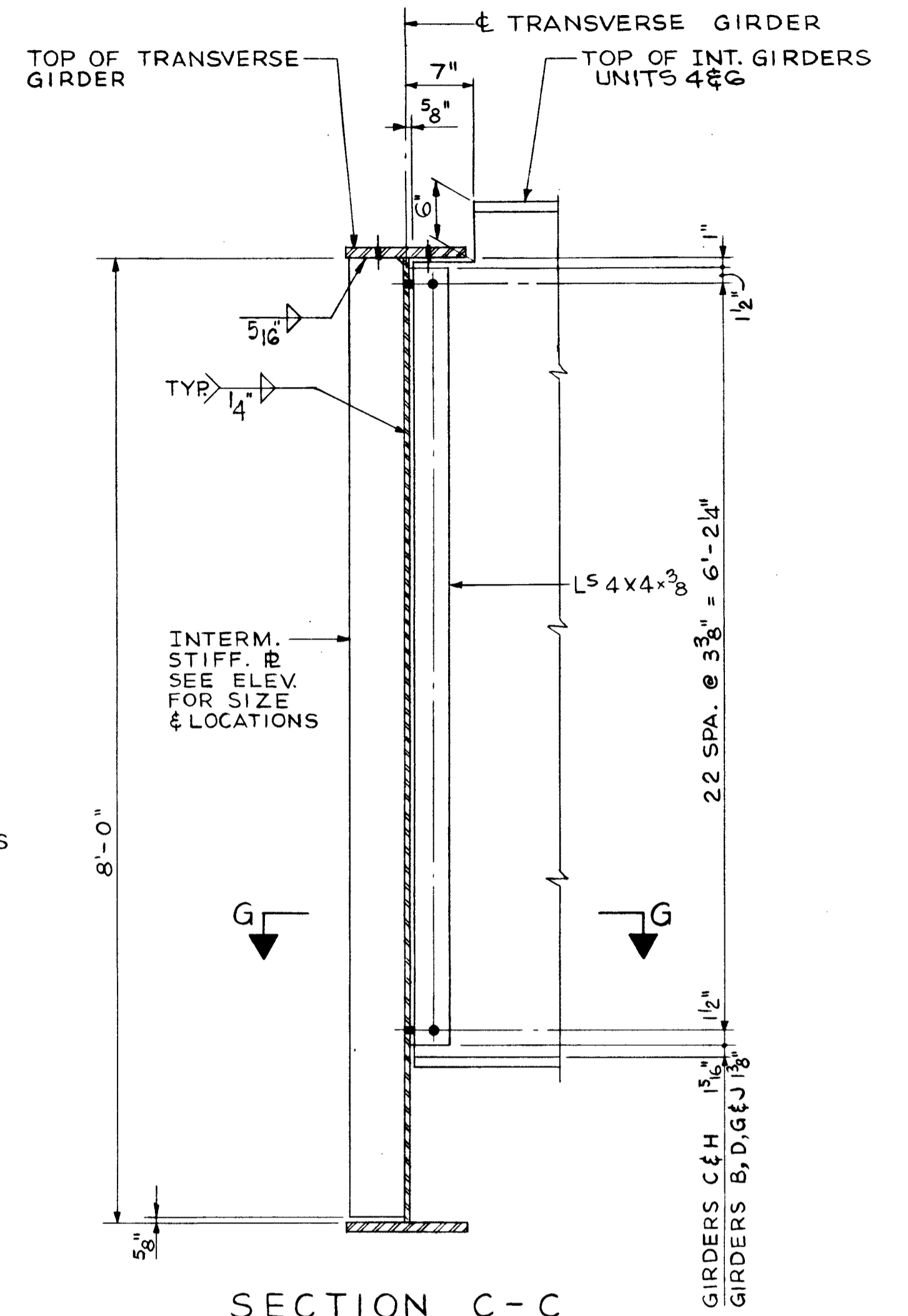
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	17
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		



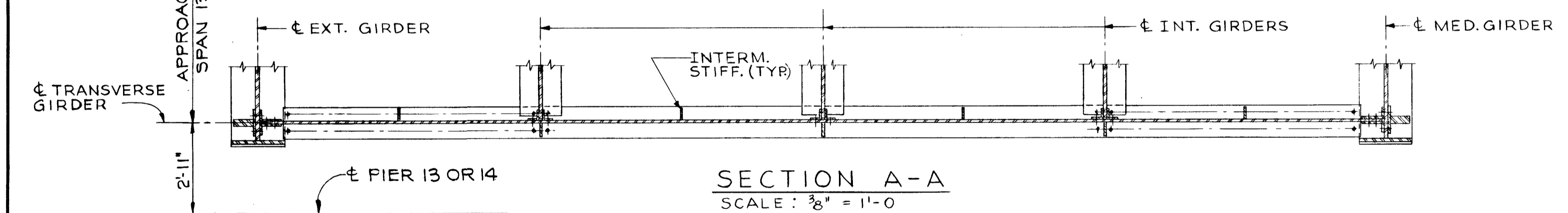
TRANSVERSE GIRDER ELEVATION AT PIER 13 OR 14  
SCALE: 3/8" = 1'-0"



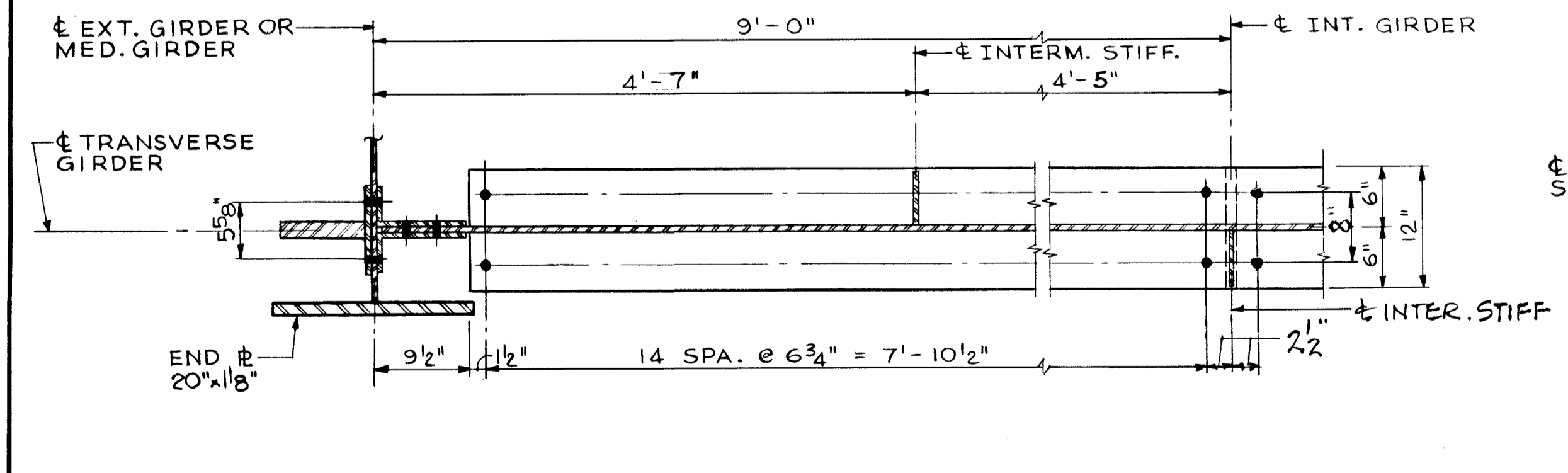
SECTION B-B  
SCALE: 1" = 1'-0"



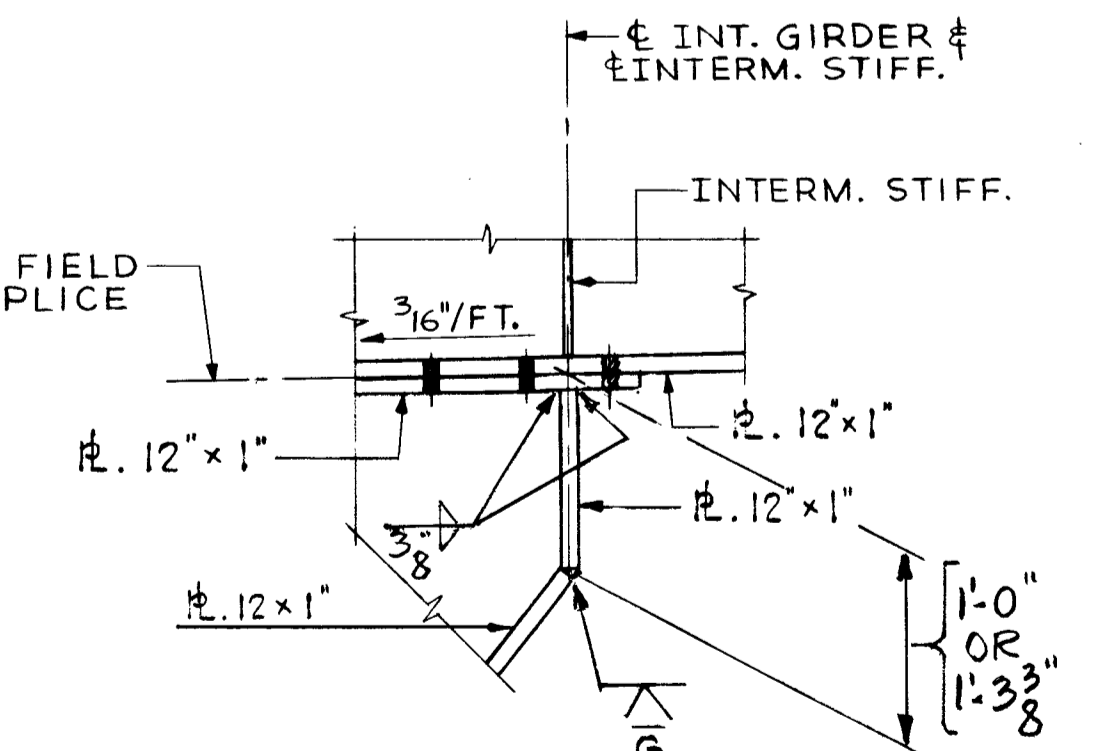
SECTION C-C  
SCALE: 1" = 1'-0"



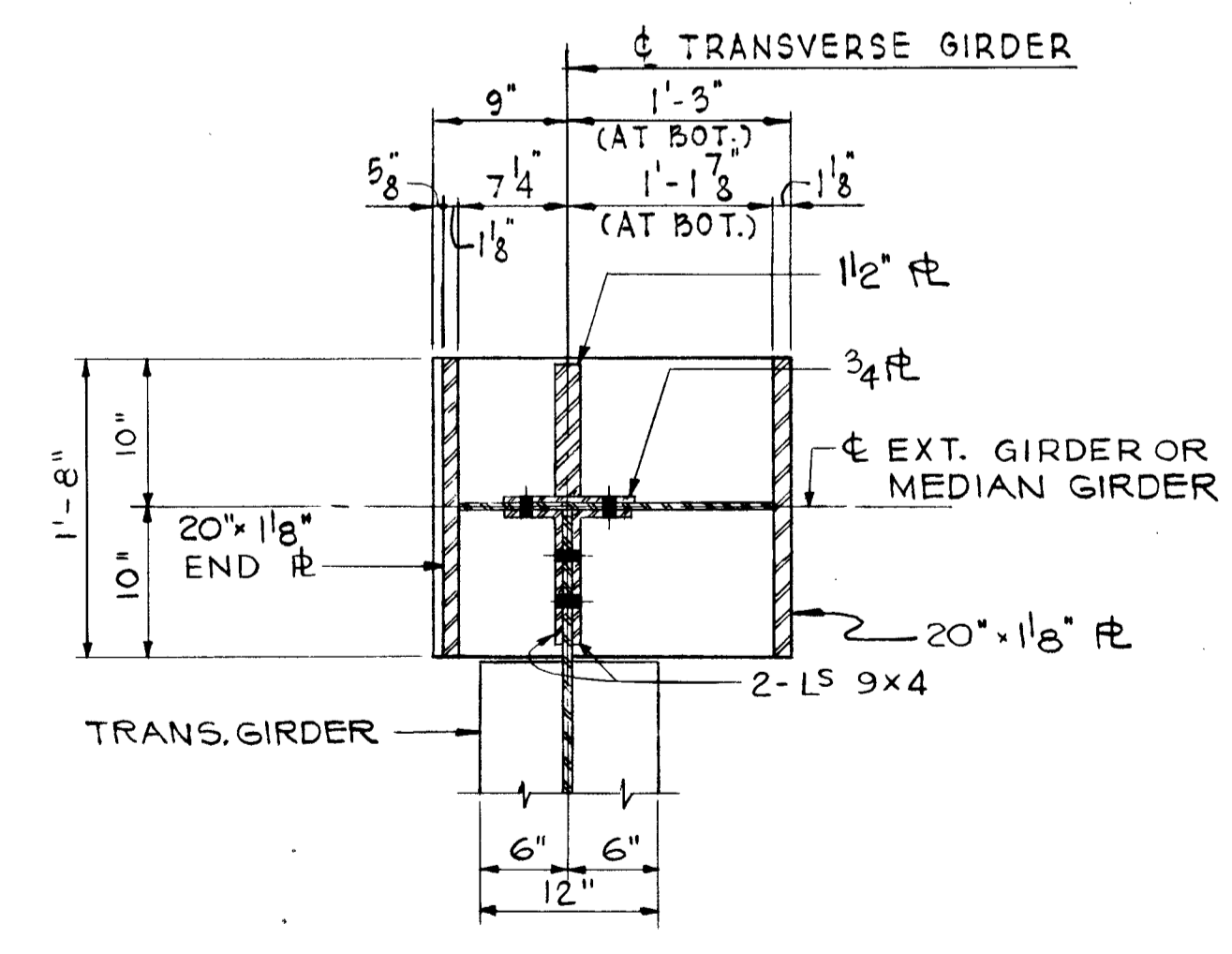
SECTION A-A  
SCALE: 3/8" = 1'-0"



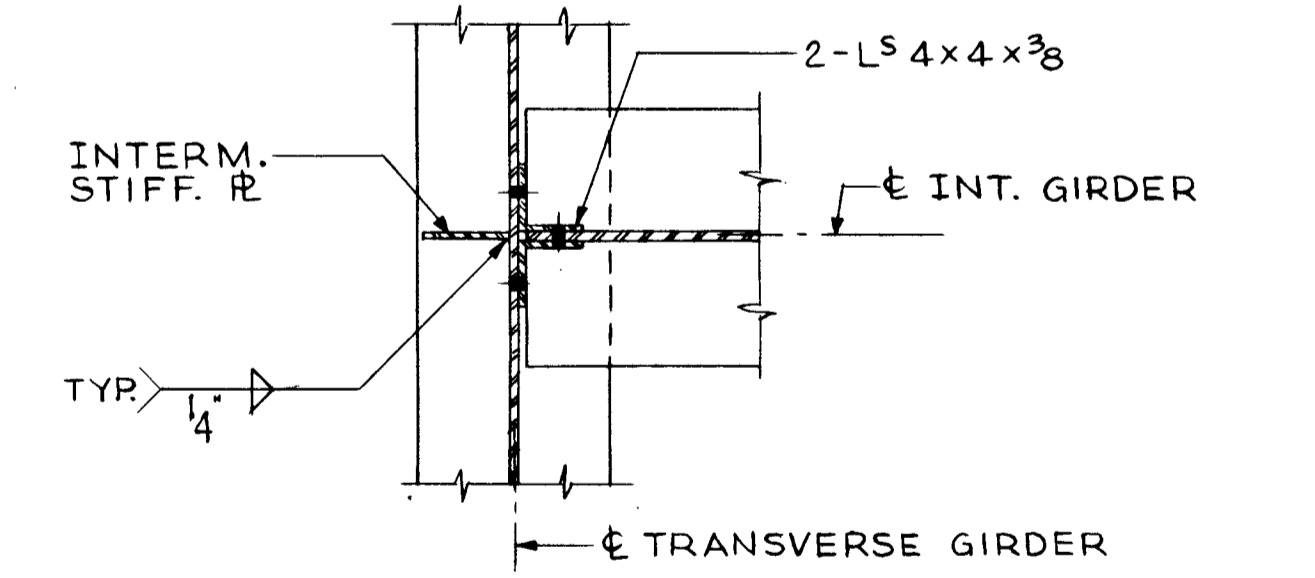
SECTION D-D  
SCALE: 1" = 1'-0"



DETAIL E  
SCALE: 1" = 1'-0"



SECTION F-F  
SCALE: 1" = 1'-0"



SECTION G-G  
SCALE: 1" = 1'-0"

LEGEND:  
F.S. = FAR SIDE  
N.S. = NEAR SIDE  
E.S. = EACH SIDE

NOTES:  
FOR FRAMING PLAN UNITS 4 & 6 SEE SHEETS NO. 11 & 12.  
FOR STRUCTURAL STEEL NOTES SEE SHEET NO. 8.  
ALL FASTENERS FOR CONNECTIONS SHALL BE HIGH STRENGTH BOLTS A.S.T.M. A325; BOLTS 3/8\"/>

TRANSVERSE APPROACH GIRDERS AT  
PIERS 13 AND 14  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.Y. HUO  
DRAWN BY G. SCHWARTZ  
CHECKED J.Y. HUANG  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	18
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			

UNITS 2, 8 & 9 (A 36 STEEL)

INTERIOR GIRDER MOMENT TABLE				
	0.4 SP. 1	PIER	0.5 SP. 2	PIER
I <sub>S</sub> (IN <sup>4</sup> )	36944	60147	32505	44271
I <sub>C</sub> (IN <sup>4</sup> )	91266	—	75814	—
S <sub>S</sub> (IN <sup>3</sup> )	1426	1894	1137	1417
S <sub>C</sub> (IN <sup>3</sup> )	1831	—	1467	—
ℓ (K/I)	1.255	1.255	1.255	1.255
M <sub>ℓ</sub> (IK)	905	-1502	374	-887
F <sub>Sℓ</sub> (KSI)	7.6	9.5	4.0	7.5
S <sub>ℓ</sub> (K/I)	0.32	0.32	0.32	0.32
M <sub>Sℓ</sub> (IK)	264	-302	145	-208
M <sub>ℓ</sub> (IK)	1040	-780	880	-674
M <sub>IMP</sub> (IK)	231	-171	195	-150
M <sub>SETT</sub> (IK)	126	-316	57	-327
TOTAL (IK)	1661	-1569	1277	-1359
F <sub>Sℓ</sub> (KSI)	10.9	10.0	10.5	11.5
F <sub>S TOTAL</sub> (KSI)	18.5	19.5	14.5	19.0
VR (K)	60	69	60	72

INTERIOR GIRDER REACTION TABLE			
	FIRST SUPPORT	SECOND SUPPORT	THIRD SUPPORT
R <sub>ℓ</sub> (K)	61	183	143
R <sub>ℓ</sub> (K)	53	87	83
IMP. (K)	11	19	18
R <sub>TOTAL</sub> (K)	125	289	244

UNIT 1 (A 36 STEEL)

INTERIOR GIRDER MOMENT TABLE			
	0.4 SP. 1	PIER	0.5 SP. 2
I <sub>S</sub> (IN <sup>4</sup> )	36944	56131	29208
I <sub>C</sub> (IN <sup>4</sup> )	91266	—	70285
S <sub>S</sub> (IN <sup>3</sup> )	1426	1775	1021
S <sub>C</sub> (IN <sup>3</sup> )	1831	—	1346
ℓ (K/I)	1.255	1.255	1.255
M <sub>ℓ</sub> (IK)	968	-1346	223
F <sub>Sℓ</sub> (KSI)	8.2	9.1	2.6
S <sub>ℓ</sub> (K/I)	0.32	0.32	0.32
M <sub>Sℓ</sub> (IK)	271	-282	112
M <sub>ℓ</sub> (IK)	1050	-758	850
M <sub>IMP</sub> (IK)	237	-170	187
M <sub>SETT</sub> (IK)	112	-279	77
TOTAL (IK)	1670	-1489	1226
F <sub>Sℓ</sub> (KSI)	10.9	10.1	10.9
F <sub>S TOTAL</sub> (KSI)	19.1	19.2	13.5
VR (K)	60	69	60

INTERIOR GIRDER REACTION TABLE		
	FIRST SUPPORT	SECOND SUPPORT
R <sub>ℓ</sub> (K)	62	174
R <sub>ℓ</sub> (K)	52	86
IMP. (K)	12	19
R <sub>TOTAL</sub> (K)	126	279

UNITS 3 & 7 (A 36 STEEL)

INTERIOR GIRDER MOMENT TABLE			
	0.4 SP. 1	PIER	0.5 SP. 2
I <sub>S</sub> (IN <sup>4</sup> )	86845	146973	62192
I <sub>C</sub> (IN <sup>4</sup> )	190080	—	134230
S <sub>S</sub> (IN <sup>3</sup> )	2953	3830	1858
S <sub>C</sub> (IN <sup>3</sup> )	3550	—	2301
ℓ (K/I)	1.33	1.33	1.33
M <sub>ℓ</sub> (IK)	2295	-3239	501
F <sub>Sℓ</sub> (KSI)	9.3	10.3	3.2
S <sub>ℓ</sub> (K/I)	0.32	0.32	0.32
M <sub>Sℓ</sub> (IK)	595	-672	228
M <sub>ℓ</sub> (IK)	1720	-1660	1265
M <sub>IMP</sub> (IK)	312	-307	226
M <sub>SETT</sub> (IK)	112	-279	77
TOTAL (IK)	2739	-2918	1796
F <sub>Sℓ</sub> (KSI)	9.3	9.2	9.4
F <sub>S TOTAL</sub> (KSI)	18.6	19.5	12.6
VR (K)	63	84	62

INTERIOR GIRDER REACTION TABLE		
	FIRST SUPPORT	SECOND SUPPORT
R <sub>ℓ</sub> (K)	98	273
R <sub>ℓ</sub> (K)	61	118
IMP. (K)	11	20
R <sub>TOTAL</sub> (K)	170	411

UNITS 4 & 6 (A588 STEEL)

INTERIOR GIRDER MOMENT TABLE			
	0.4 SP. 1	PIER	0.5 SP. 2
I <sub>S</sub> (IN <sup>4</sup> )	150025	221733	90775
I <sub>C</sub> (IN <sup>4</sup> )	290492	—	174520
S <sub>S</sub> (IN <sup>3</sup> )	4152	4969	2111
S <sub>C</sub> (IN <sup>3</sup> )	4825	—	2562
ℓ (K/I)	1.44	1.44	1.44
M <sub>ℓ</sub> (IK)	4396	-6291	980
F <sub>Sℓ</sub> (KSI)	12.7	15.2	5.6
S <sub>ℓ</sub> (K/I)	0.32	0.32	0.32
M <sub>Sℓ</sub> (IK)	1056	-1200	414
M <sub>ℓ</sub> (IK)	2820	-2780	1990
M <sub>IMP</sub> (IK)	424	-429	300
M <sub>SETT</sub> (IK)	112	-279	77
TOTAL (IK)	4412	-4688	2781
F <sub>Sℓ</sub> (KSI)	11.0	11.3	13.0
F <sub>S TOTAL</sub> (KSI)	23.7	26.5	18.6
VR (K)	66	101	73

INTERIOR GIRDER REACTION TABLE		
	FIRST SUPPORT	SECOND SUPPORT
R <sub>ℓ</sub> (K)	139	389
R <sub>ℓ</sub> (K)	70	150
IMP. (K)	11	22
R <sub>TOTAL</sub> (K)	220	561

UNITS 4 & 6 AT PIERS 13 & 14 (A588 STEEL)

TRANSVERSE GIRDER MOMENT TABLE	
	0.5 SPAN
I (IN <sup>4</sup> )	10258
S (IN <sup>3</sup> )	2093
M <sub>ℓ</sub> (IK)	2670
M <sub>ℓ</sub> (IK)	1315
M <sub>IMP</sub> (IK)	202
M <sub>TOTAL</sub> (IK)	4187
F <sub>S</sub> (KSI)	24.0

TRANSVERSE GIRDER REACTION TABLE	
	SUPPORT
R <sub>ℓ</sub> (K)	365
R <sub>ℓ</sub> (K)	123
IMP. (K)	19
R <sub>TOTAL</sub> (K)	507

LEGEND

I<sub>S</sub> AND S<sub>S</sub> ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION.

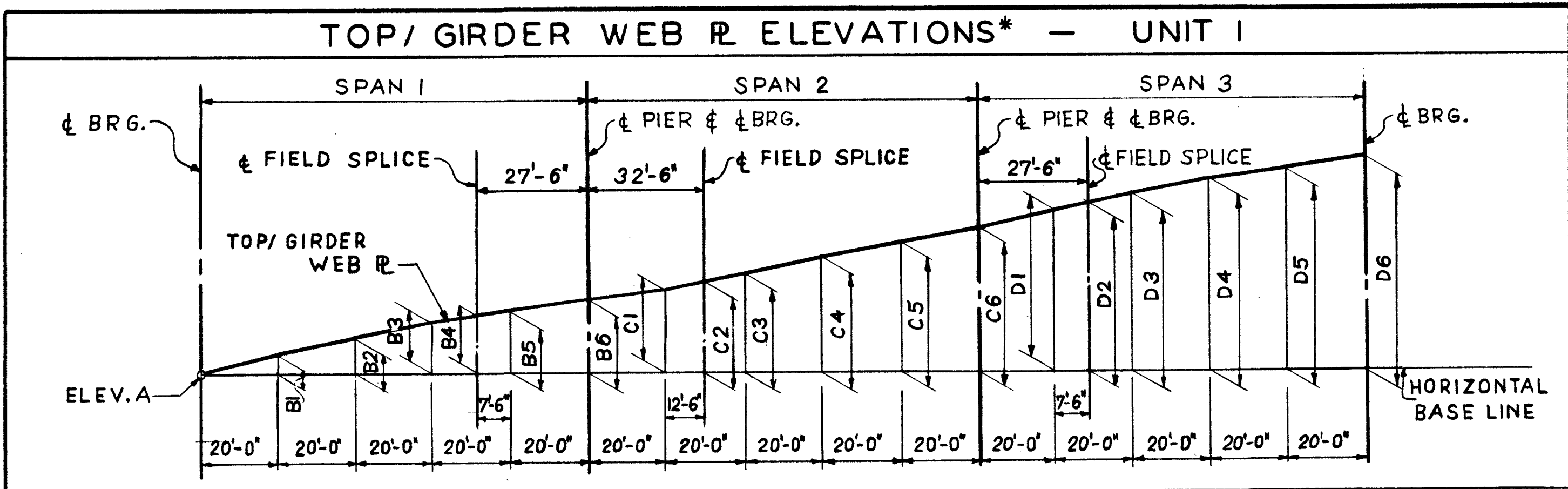
I<sub>C</sub> AND S<sub>C</sub> ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION USED IN COMPUTING F<sub>S</sub>.

M<sub>SETT</sub> IS MOMENT DUE TO ONE INCH (1") OF POSSIBLE PIER SETTLEMENT.

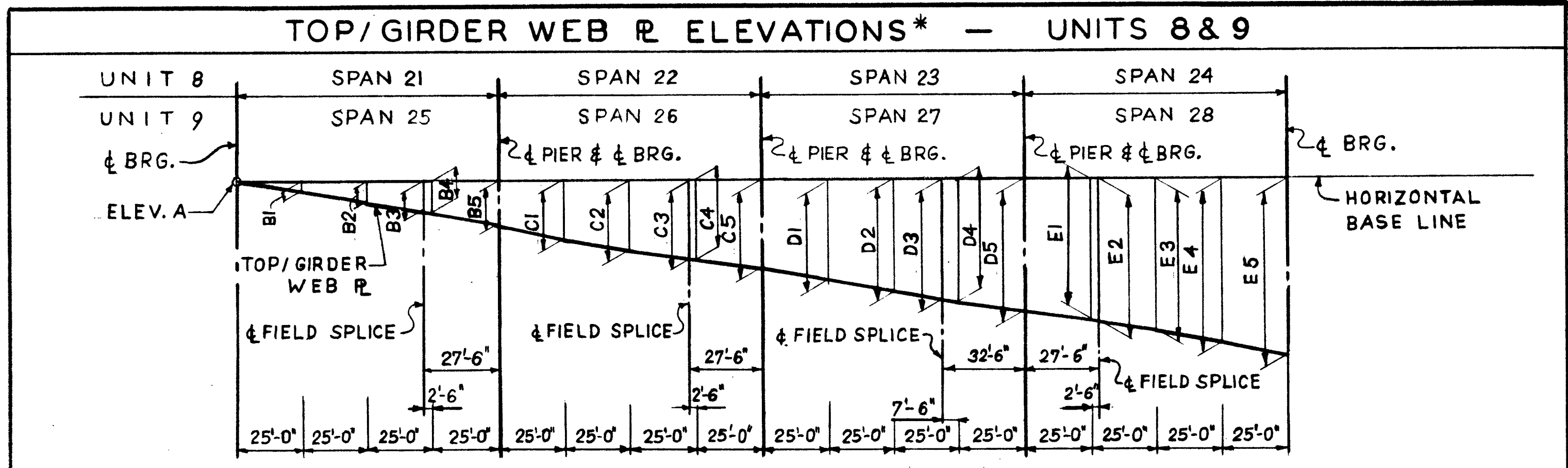
VR IS THE MAXIMUM ℓ + IMPACT SHEAR RANGE.

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY E. LANTSKI  
 DRAWN BY G. SCHWARTZ  
 CHECKED W.Y. HUO  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

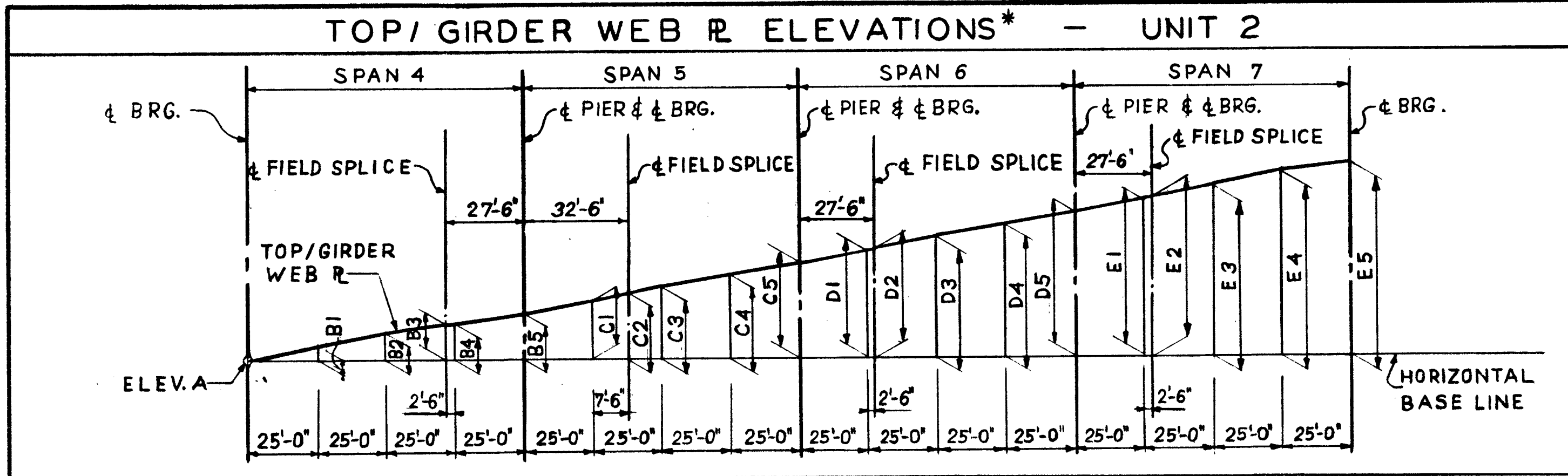
DESIGN DATA TABLES  
 UNITS 1 THRU 4 AND 6 THRU 9  
 F.A.I. ROUTE 280 SECTION 81-IF&E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970



GIRDER	ELEV. A	DIMENSION																	
		B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6	D1	D2	D3	D4	D5	D6
A	601.598	3"	5 <sup>9</sup> / <sub>16</sub> "	7 <sup>5</sup> / <sub>8</sub> "	8 <sup>11</sup> / <sub>16</sub> "	9 <sup>5</sup> / <sub>16</sub> "	11 <sup>1</sup> / <sub>16</sub> "	1'-1 <sup>8</sup> / <sub>16</sub> "	1'-2 <sup>9</sup> / <sub>16</sub> "	1'-3 <sup>3</sup> / <sub>8</sub> "	1'-5 <sup>9</sup> / <sub>16</sub> "	1'-7 <sup>11</sup> / <sub>16</sub> "	1'-10 <sup>1</sup> / <sub>16</sub> "	2'-0 <sup>3</sup> / <sub>4</sub> "	2'-1 <sup>3</sup> / <sub>16</sub> "	2'-3 <sup>1</sup> / <sub>2</sub> "	2'-5 <sup>7</sup> / <sub>8</sub> "	2'-7 <sup>11</sup> / <sub>16</sub> "	2'-9 <sup>1</sup> / <sub>8</sub> "
B	601.739	3 <sup>1</sup> / <sub>16</sub> "	5 <sup>11</sup> / <sub>16</sub> "	7 <sup>3</sup> / <sub>4</sub> "	8 <sup>3</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>8</sub> "					1'-5 <sup>5</sup> / <sub>8</sub> "	1'-7 <sup>3</sup> / <sub>4</sub> "		2'-0 <sup>3</sup> / <sub>4</sub> "	2'-1 <sup>7</sup> / <sub>8</sub> "	2'-3 <sup>5</sup> / <sub>8</sub> "	2'-6"	2'-7 <sup>13</sup> / <sub>16</sub> "	
C	601.880																		
D	602.020	3 <sup>1</sup> / <sub>16</sub> "	5 <sup>11</sup> / <sub>16</sub> "	7 <sup>3</sup> / <sub>4</sub> "	8 <sup>3</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>8</sub> "					1'-5 <sup>5</sup> / <sub>8</sub> "	1'-7 <sup>3</sup> / <sub>4</sub> "		2'-0 <sup>3</sup> / <sub>4</sub> "	2'-1 <sup>7</sup> / <sub>8</sub> "	2'-3 <sup>5</sup> / <sub>8</sub> "	2'-6"	2'-7 <sup>13</sup> / <sub>16</sub> "	
E	602.160	3"	5 <sup>9</sup> / <sub>16</sub> "	7 <sup>5</sup> / <sub>8</sub> "	8 <sup>11</sup> / <sub>16</sub> "	9 <sup>5</sup> / <sub>16</sub> "					1'-5 <sup>9</sup> / <sub>16</sub> "	1'-7 <sup>11</sup> / <sub>16</sub> "		2'-0 <sup>3</sup> / <sub>4</sub> "	2'-1 <sup>3</sup> / <sub>16</sub> "	2'-3 <sup>1</sup> / <sub>2</sub> "	2'-5 <sup>7</sup> / <sub>8</sub> "	2'-7 <sup>11</sup> / <sub>16</sub> "	
F	602.160	3"	5 <sup>9</sup> / <sub>16</sub> "	7 <sup>5</sup> / <sub>8</sub> "	8 <sup>11</sup> / <sub>16</sub> "	9 <sup>5</sup> / <sub>16</sub> "					1'-5 <sup>9</sup> / <sub>16</sub> "	1'-7 <sup>11</sup> / <sub>16</sub> "		2'-0 <sup>3</sup> / <sub>4</sub> "	2'-1 <sup>3</sup> / <sub>16</sub> "	2'-3 <sup>1</sup> / <sub>2</sub> "	2'-5 <sup>7</sup> / <sub>8</sub> "	2'-7 <sup>11</sup> / <sub>16</sub> "	
G	602.020	3 <sup>1</sup> / <sub>16</sub> "	5 <sup>11</sup> / <sub>16</sub> "	7 <sup>3</sup> / <sub>4</sub> "	8 <sup>3</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>8</sub> "					1'-5 <sup>5</sup> / <sub>8</sub> "	1'-7 <sup>3</sup> / <sub>4</sub> "		2'-0 <sup>3</sup> / <sub>4</sub> "	2'-1 <sup>7</sup> / <sub>8</sub> "	2'-3 <sup>5</sup> / <sub>8</sub> "	2'-6"	2'-7 <sup>13</sup> / <sub>16</sub> "	
H	601.880																		
J	601.739	3 <sup>1</sup> / <sub>16</sub> "	5 <sup>11</sup> / <sub>16</sub> "	7 <sup>3</sup> / <sub>4</sub> "	8 <sup>3</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>8</sub> "					1'-5 <sup>5</sup> / <sub>8</sub> "	1'-7 <sup>3</sup> / <sub>4</sub> "		2'-0 <sup>3</sup> / <sub>4</sub> "	2'-1 <sup>7</sup> / <sub>8</sub> "	2'-3 <sup>5</sup> / <sub>8</sub> "	2'-6"	2'-7 <sup>13</sup> / <sub>16</sub> "	
K	601.598	3"	5 <sup>9</sup> / <sub>16</sub> "	7 <sup>5</sup> / <sub>8</sub> "	8 <sup>11</sup> / <sub>16</sub> "	9 <sup>5</sup> / <sub>16</sub> "	11 <sup>1</sup> / <sub>16</sub> "	1'-1 <sup>8</sup> / <sub>16</sub> "	1'-2 <sup>9</sup> / <sub>16</sub> "	1'-3 <sup>3</sup> / <sub>8</sub> "	1'-5 <sup>9</sup> / <sub>16</sub> "	1'-7 <sup>11</sup> / <sub>16</sub> "	1'-10 <sup>1</sup> / <sub>16</sub> "	2'-0 <sup>3</sup> / <sub>4</sub> "	2'-1 <sup>3</sup> / <sub>16</sub> "	2'-3 <sup>1</sup> / <sub>2</sub> "	2'-5 <sup>7</sup> / <sub>8</sub> "	2'-7 <sup>11</sup> / <sub>16</sub> "	2'-9 <sup>1</sup> / <sub>8</sub> "



GIRDER	ELEV. A	DIMENSION																				
		B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5	
UNIT 8	A	604.769	4 <sup>7</sup> / <sub>8</sub> "	10 <sup>1</sup> / <sub>2</sub> "	1'-4 <sup>1</sup> / <sub>4</sub> "	1'-4 <sup>7</sup> / <sub>8</sub> "	1'-11 <sup>3</sup> / <sub>8</sub> "	2'-5 <sup>7</sup> / <sub>16</sub> "	2'-11 <sup>7</sup> / <sub>16</sub> "	3'-5 <sup>1</sup> / <sub>4</sub> "	3'-5 <sup>7</sup> / <sub>8</sub> "	4'-0 <sup>5</sup> / <sub>32</sub> "	4'-6 <sup>13</sup> / <sub>16</sub> "	5'-1 <sup>3</sup> / <sub>8</sub> "	5'-6 <sup>1</sup> / <sub>4</sub> "	5'-8 <sup>3</sup> / <sub>8</sub> "	6'-3 <sup>3</sup> / <sub>4</sub> "	6'-9 <sup>5</sup> / <sub>8</sub> "	6'-10 <sup>5</sup> / <sub>16</sub> "	7'-4 <sup>3</sup> / <sub>16</sub> "	7'-11 <sup>9</sup> / <sub>16</sub> "	8'-7 <sup>5</sup> / <sub>8</sub> "
B	604.910	4 <sup>13</sup> / <sub>16</sub> "	10 <sup>3</sup> / <sub>8</sub> "	1'-4 <sup>3</sup> / <sub>16</sub> "	1'-4 <sup>13</sup> / <sub>16</sub> "					3'-5 <sup>3</sup> / <sub>16</sub> "						5'-8 <sup>5</sup> / <sub>16</sub> "			6'-10 <sup>1</sup> / <sub>4</sub> "	7'-4 <sup>1</sup> / <sub>8</sub> "	7'-11 <sup>7</sup> / <sub>16</sub> "	
C	605.050																					
D	605.191	4 <sup>13</sup> / <sub>16</sub> "	10 <sup>3</sup> / <sub>8</sub> "	1'-4 <sup>3</sup> / <sub>16</sub> "	1'-4 <sup>13</sup> / <sub>16</sub> "					3'-5 <sup>3</sup> / <sub>16</sub> "						5'-8 <sup>5</sup> / <sub>16</sub> "			6'-10 <sup>1</sup> / <sub>4</sub> "	7'-4 <sup>1</sup> / <sub>8</sub> "	7'-11 <sup>7</sup> / <sub>16</sub> "	
E	605.330	4 <sup>7</sup> / <sub>8</sub> "	10 <sup>1</sup> / <sub>2</sub> "	1'-4 <sup>1</sup> / <sub>4</sub> "	1'-4 <sup>7</sup> / <sub>8</sub> "					3'-5 <sup>1</sup> / <sub>4</sub> "						5'-8 <sup>3</sup> / <sub>8</sub> "			6'-10 <sup>5</sup> / <sub>16</sub> "	7'-4 <sup>3</sup> / <sub>16</sub> "	7'-11 <sup>9</sup> / <sub>16</sub> "	
F	605.330	4 <sup>7</sup> / <sub>8</sub> "	10 <sup>1</sup> / <sub>2</sub> "	1'-4 <sup>1</sup> / <sub>4</sub> "	1'-4 <sup>7</sup> / <sub>8</sub> "					3'-5 <sup>1</sup> / <sub>4</sub> "						5'-8 <sup>3</sup> / <sub>8</sub> "			6'-10 <sup>5</sup> / <sub>16</sub> "	7'-4 <sup>3</sup> / <sub>16</sub> "	7'-11 <sup>9</sup> / <sub>16</sub> "	
G	605.191	4 <sup>13</sup> / <sub>16</sub> "	10 <sup>3</sup> / <sub>8</sub> "	1'-4 <sup>3</sup> / <sub>16</sub> "	1'-4 <sup>13</sup> / <sub>16</sub> "					3'-5 <sup>3</sup> / <sub>16</sub> "						5'-8 <sup>5</sup> / <sub>16</sub> "			6'-10 <sup>1</sup> / <sub>4</sub> "	7'-4 <sup>1</sup> / <sub>8</sub> "	7'-11 <sup>7</sup> / <sub>16</sub> "	
H	605.050																					
J	604.910	4 <sup>13</sup> / <sub>16</sub> "	10 <sup>3</sup> / <sub>8</sub> "	1'-4 <sup>3</sup> / <sub>16</sub> "	1'-4 <sup>13</sup> / <sub>16</sub> "					3'-5 <sup>3</sup> / <sub>16</sub> "						5'-8 <sup>5</sup> / <sub>16</sub> "			6'-10 <sup>1</sup> / <sub>4</sub> "	7'-4 <sup>1</sup> / <sub>8</sub> "	7'-11 <sup>7</sup> / <sub>16</sub> "	
K	604.769	4 <sup>7</sup> / <sub>8</sub> "	10 <sup>1</sup> / <sub>2</sub> "	1'-4 <sup>1</sup> / <sub>4</sub> "	1'-4 <sup>7</sup> / <sub>8</sub> "	1'-11 <sup>3</sup> / <sub>8</sub> "	2'-5 <sup>7</sup> / <sub>16</sub> "	2'-11 <sup>7</sup> / <sub>16</sub> "	3'-5 <sup>1</sup> / <sub>4</sub> "	3'-5 <sup>7</sup> / <sub>8</sub> "	4'-0 <sup>5</sup> / <sub>32</sub> "	4'-6 <sup>13</sup> / <sub>16</sub> "	5'-1 <sup>3</sup> / <sub>8</sub> "	5'-6 <sup>1</sup> / <sub>4</sub> "	5'-8 <sup>3</sup> / <sub>8</sub> "	6'-3 <sup>3</sup> / <sub>4</sub> "	6'-9 <sup>5</sup> / <sub>8</sub> "	6'-10 <sup>5</sup> / <sub>16</sub> "	7'-4 <sup>3</sup> / <sub>16</sub> "	7'-11 <sup>9</sup> / <sub>16</sub> "	8'-7 <sup>5</sup> / <sub>8</sub> "	
UNIT 9	A	596.082	6 <sup>9</sup> / <sub>16</sub> "	1'-1 <sup>7</sup> / <sub>8</sub> "	1'-9 <sup>1</sup> / <sub>8</sub> "	1'-9 <sup>5</sup> / <sub>16</sub> "	2'-6 <sup>1</sup> / <sub>8</sub> "	3'-1 <sup>7</sup> / <sub>8</sub> "	3'-9 <sup>9</sup> / <sub>16</sub> "	4'-4 <sup>7</sup> / <sub>8</sub> "	4'-5 <sup>11</sup> / <sub>16</sub> "	5'-2"	5'-10 <sup>1</sup> / <sub>16</sub> "	6'-6 <sup>1</sup> / <sub>4</sub> "	7'-0 <sup>5</sup> / <sub>16</sub> "	7'-2 <sup>5</sup> / <sub>16</sub> "	7'-11 <sup>1</sup> / <sub>2</sub> "	8'-7 <sup>5</sup> / <sub>8</sub> "	8'-8 <sup>7</sup> / <sub>16</sub> "	9'-3 <sup>7</sup> / <sub>8</sub> "	10'-0 <sup>7</sup> / <sub>8</sub> "	10'-10 <sup>1</sup> / <sub>16</sub> "
B	596.223	6 <sup>7</sup> / <sub>16</sub> "	1'-1 <sup>3</sup> / <sub>4</sub> "	1'-9 <sup>1</sup> / <sub>16</sub> "	1'-9 <sup>7</sup> / <sub>8</sub> "					4'-4 <sup>13</sup> / <sub>16</sub> "	4'-5 <sup>5</sup> / <sub>8</sub> "		5'-10"		7'-0 <sup>1</sup> / <sub>4</sub> "			8'-7 <sup>9</sup> / <sub>16</sub> "	8'-8 <sup>3</sup> / <sub>8</sub> "	9'-3 <sup>3</sup> / <sub>4</sub> "	10'-0 <sup>3</sup> / <sub>16</sub> "	
C	596.364																					
D	596.504	6 <sup>7</sup> / <sub>16</sub> "	1'-1 <sup>3</sup> / <sub>4</sub> "	1'-9 <sup>1</sup> / <sub>16</sub> "	1'-9 <sup>7</sup> / <sub>8</sub> "					4'-4 <sup>13</sup> / <sub>16</sub> "	4'-5 <sup>5</sup> / <sub>8</sub> "		5'-10"		7'-0 <sup>1</sup> / <sub>4</sub> "			8'-7 <sup>9</sup> / <sub>16</sub> "	8'-8 <sup>3</sup> / <sub>8</sub> "	9'-3 <sup>3</sup> / <sub>4</sub> "	10'-0 <sup>3</sup> / <sub>16</sub> "	
E	596.644	6 <sup>9</sup> / <sub>16</sub> "	1'-1 <sup>7</sup> / <sub>8</sub> "	1'-9 <sup>1</sup> / <sub>8</sub> "	1'-9 <sup>5</sup> / <sub>16</sub> "					4'-4 <sup>7</sup> / <sub>8</sub> "	4'-5 <sup>11</sup> / <sub>16</sub> "		5'-10 <sup>1</sup> / <sub>16</sub> "		7'-0 <sup>5</sup> / <sub>16</sub> "			8'-7 <sup>5</sup> / <sub>8</sub> "	8'-8 <sup>7</sup> / <sub>16</sub> "	9'-3 <sup>7</sup> / <sub>8</sub> "	10'-0 <sup>7</sup> / <sub>8</sub> "	
F	596.644	6 <sup>9</sup> / <sub>16</sub> "	1'-1 <sup>7</sup> / <sub>8</sub> "	1'-9 <sup>1</sup> / <sub>8</sub> "	1'-9 <sup>5</sup> / <sub>16</sub> "					4'-4 <sup>7</sup> / <sub>8</sub> "	4'-5 <sup>11</sup> / <sub>16</sub> "		5'-10 <sup>1</sup> / <sub>16</sub> "		7'-0 <sup>5</sup> / <sub>16</sub> "			8'-7 <sup>5</sup> / <sub>8</sub> "	8'-8 <sup>7</sup> / <sub>16</sub> "	9'-3 <sup>7</sup> / <sub>8</sub> "	10'-0 <sup>7</sup> / <sub>8</sub> "	
G	596.504	6 <sup>7</sup> / <sub>16</sub> "	1'-1 <sup>3</sup> / <sub>4</sub> "	1'-9 <sup>1</sup> / <sub>16</sub> "	1'-9 <sup>7</sup> / <sub>8</sub> "					4'-4 <sup>13</sup> / <sub>16</sub> "	4'-5 <sup>5</sup> / <sub>8</sub> "		5'-10"		7'-0 <sup>1</sup> / <sub>4</sub> "			8'-7 <sup>9</sup> / <sub>16</sub> "	8'-8 <sup>3</sup> / <sub>8</sub> "	9'-3 <sup>3</sup> / <sub>4</sub> "	10'-0 <sup>3</sup> / <sub>16</sub> "	
H	596.364																					
J	596.223	6 <sup>7</sup> / <sub>16</sub> "	1'-1 <sup>3</sup> / <sub>4</sub> "	1'-9 <sup>1</sup> / <sub>16</sub> "	1'-9 <sup>7</sup> / <sub>8</sub> "					4'-4 <sup>13</sup> / <sub>16</sub> "	4'-5 <sup>5</sup> / <sub>8</sub> "		5'-10"		7'-0 <sup>1</sup> / <sub>4</sub> "			8'-7 <sup>9</sup> / <sub>16</sub> "	8'-8 <sup>3</sup> / <sub>8</sub> "	9'-3 <sup>3</sup> / <sub>4</sub> "	10'-0 <sup>3</sup> / <sub>16</sub> "	
K	596.082	6 <sup>9</sup> / <sub>16</sub> "	1'-1 <sup>7</sup> / <sub>8</sub> "	1'-9 <sup>1</sup> / <sub>8</sub> "	1'-9 <sup>5</sup> / <sub>16</sub> "	2'-6 <sup>1</sup> / <sub>8</sub> "	3'-1 <sup>7</sup> / <sub>8</sub> "	3'-9 <sup>9</sup> / <sub>16</sub> "	4'-4 <sup>7</sup> / <sub>8</sub> "	4'-5 <sup>11</sup> / <sub>16</sub> "	5'-2"	5'-10 <sup>1</sup> / <sub>16</sub> "	6'-6 <sup>1</sup> / <sub>4</sub> "	7'-0 <sup>5</sup> / <sub>16</sub> "	7'-2 <sup>5</sup> / <sub>16</sub> "	7'-11 <sup>1</sup> / <sub>2</sub> "	8'-7 <sup>5</sup> / <sub>8</sub> "	8'-8 <sup>7</sup> / <sub>16</sub> "	9'-3 <sup>7</sup> / <sub>8</sub> "	10'-0 <sup>7</sup> / <sub>8</sub> "	10'-10 <sup>1</sup> / <sub>16</sub> "	

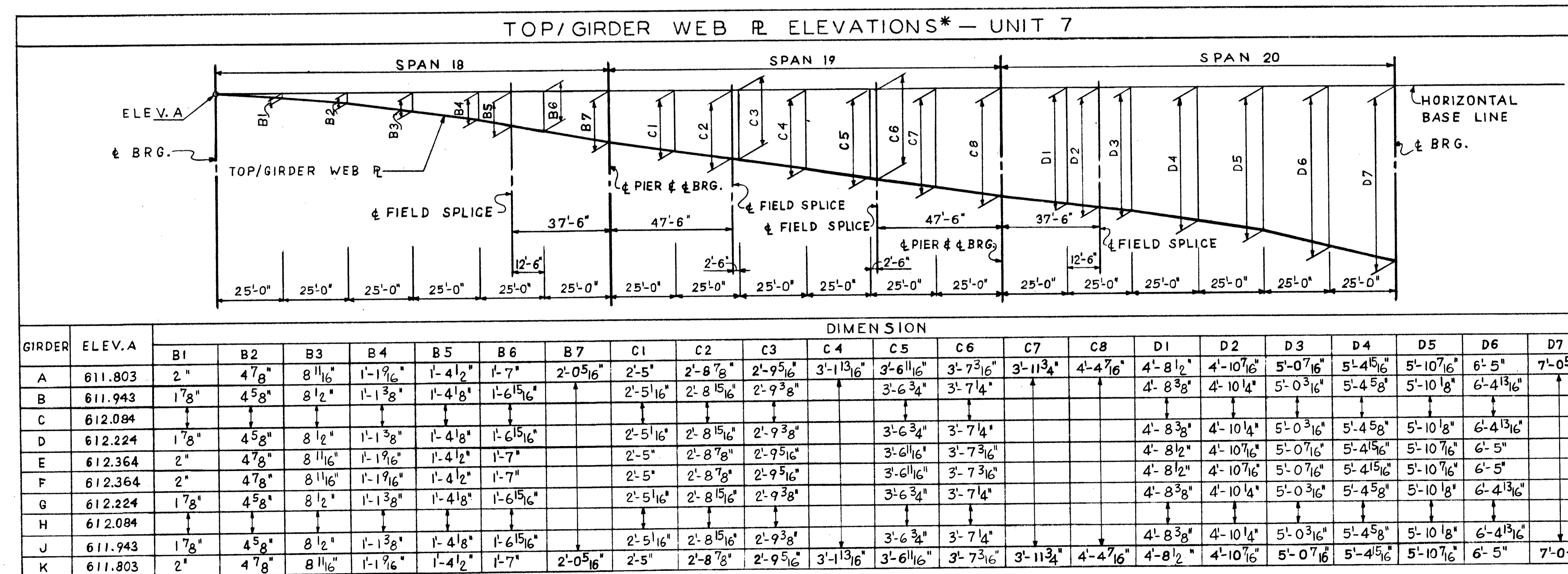
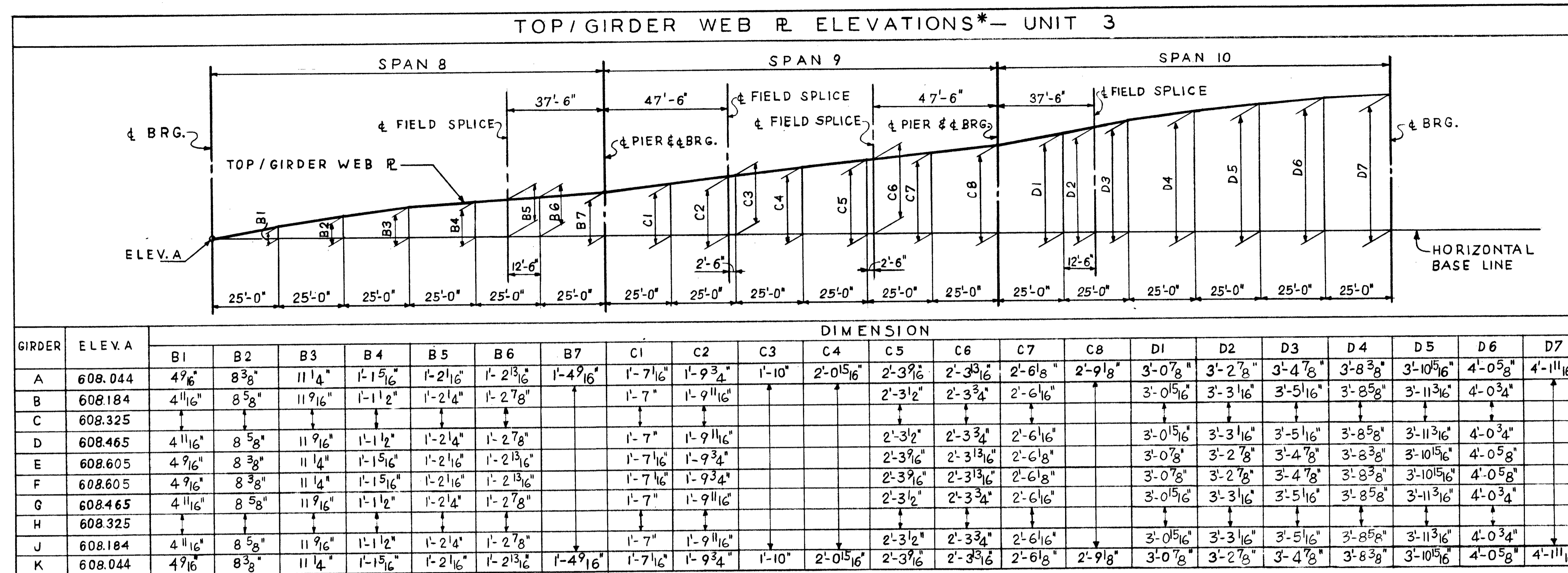


GIRDER	ELEV. A	DIMENSION																				
		B1	B2	B3	B4	B5	C1	C2	C3	C4	C5	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5	
A	604.377	3 <sup>5</sup> / <sub>8</sub> "	6 <sup>1</sup> / <sub>2</sub> "	8 <sup>9</sup> / <sub>16</sub> "	8 <sup>13</sup> / <sub>16</sub> "	11 <sup>1</sup> / <sub>16</sub> "	1'-1 <sup>7</sup> / <sub>8</sub> "	1'-2 <sup>3</sup> / <sub>4</sub> "	1'-4 <sup>13</sup> / <sub>16</sub> "	1'-7 <sup>1</sup> / <sub>2</sub> "	1'-10 <sup>1</sup> / <sub>8</sub> "	2'-1"	2'-1 <sup>5</sup> / <sub>16</sub> "	2'-3 <sup>7</sup> / <sub>8</sub> "	2'-6 <sup>3</sup> / <sub>8</sub> "	2'-9 <sup>1</sup> / <sub>8</sub> "	3'-0 <sup>3</sup> / <sub>8</sub> "	3'-0 <sup>3</sup> / <sub>4</sub> "	3'-3 <sup>5</sup> / <sub>8</sub> "	3'-6 <sup>1</sup> / <sub>4</sub> "	3'-8 <sup>1</sup> / <sub>16</sub> "	
B	604.518	3 <sup>11</sup> / <sub>16</sub> "	6 <sup>5</sup> / <sub>8</sub> "	8 <sup>11</sup> / <sub>16</sub> "	8 <sup>7</sup> / <sub>8</sub> "				1'-4 <sup>7</sup> / <sub>8</sub> "								3'-0 <sup>7</sup> / <sub>16</sub> "	3'-0 <sup>1</sup> / <sub>16</sub> "	3'-3 <sup>3</sup> / <sub>4</sub> "	3'-6 <sup>5</sup> / <sub>16</sub> "		
C	604.658																					
D	604.799	3 <sup>11</sup> / <sub>16</sub> "	6 <sup>5</sup> / <sub>8</sub> "	8 <sup>11</sup> / <sub>16</sub> "	8 <sup>7</sup> / <sub>8</sub> "					1'-4 <sup>7</sup> / <sub>8</sub> "							2'-6 <sup>7</sup> / <sub>16</sub> "		3'-0 <sup>7</sup> / <sub>16</sub> "	3'-0 <sup>1</sup> / <sub>16</sub> "	3'-3 <sup>3</sup> / <sub>4</sub> "	3'-6 <sup>5</sup> / <sub>16</sub> "
E	604.938	3 <sup>5</sup> / <sub>8</sub> "	6 <sup>1</sup> / <sub>2</sub> "	8 <sup>9</sup> / <sub>16</sub> "	8 <sup>13</sup> / <sub>16</sub> "					1'-4 <sup>13</sup> / <sub>16</sub> "							2'-6 <sup>3</sup> / <sub>8</sub> "		3'-0 <sup>3</sup> / <sub>8</sub> "	3'-0 <sup>3</sup> / <sub>4</sub> "	3'-3 <sup>5</sup> / <sub>8</sub> "	3'-6 <sup>1</sup> / <sub>4</sub> "
F	604.938	3 <sup>5</sup> / <sub>8</sub> "	6 <sup>1</sup> / <sub>2</sub> "	8 <sup>9</sup> / <sub>16</sub> "	8 <sup>13</sup> / <sub>16</sub> "					1'-4 <sup>13</sup> / <sub>16</sub> "							2'-6 <sup>3</sup> / <sub>8</sub> "		3'-0 <sup>3</sup> / <sub>8</sub> "	3'-0 <sup>3</sup> / <sub>4</sub> "	3'-3 <sup>5</sup> / <sub>8</sub> "	3'-6 <sup>1</sup> / <sub>4</sub> "
G	604.799	3 <sup>11</sup> / <sub>16</sub> "	6 <sup>5</sup> / <sub>8</sub> "	8 <sup>11</sup> / <sub>16</sub> "	8 <sup>7</sup> / <sub>8</sub> "					1'-4 <sup>7</sup> / <sub>8</sub> "							2'-6 <sup>7</sup> / <sub>16</sub> "		3'-0 <sup>7</sup> / <sub>16</sub> "	3'-0 <sup>1</sup> / <sub>16</sub> "	3'-3 <sup>3</sup> / <sub>4</sub> "	3'-6 <sup>5</sup> / <sub>16</sub> "
H	604.658																					
J	604.518	3 <sup>11</sup> / <sub>16</sub> "	6 <sup>5</sup> / <sub>8</sub> "	8 <sup>11</sup> / <sub>16</sub> "	8 <sup>7</sup> / <sub>8</sub> "					1'-4 <sup>7</sup> / <sub>8</sub> "							2'-6 <sup>7</sup> / <sub>16</sub> "		3'-0 <sup>7</sup> / <sub>16</sub> "	3'-0 <sup>1</sup> / <sub>16</sub> "	3'-3 <sup>3</sup> / <sub>4</sub> "	3'-6 <sup>5</sup> / <sub>16</sub> "
K	604.377	3 <sup>5</sup> / <sub>8</sub> "	6 <sup>1</sup> / <sub>2</sub> "	8 <sup>9</sup> / <sub>16</sub> "	8 <sup>13</sup> / <sub>16</sub> "	11 <sup>1</sup> / <sub>16</sub> "	1'-1 <sup>7</sup> / <sub>8</sub> "	1'-2 <sup>3</sup> / <sub>4</sub> "	1'-4 <sup>13</sup> / <sub>16</sub> "	1'-7 <sup>1</sup> / <sub>2</sub> "	1'-10 <sup>1</sup> / <sub>8</sub> "	2'-1"	2'-1 <sup>5</sup> / <sub>16</sub> "	2'-3 <sup>7</sup> / <sub>8</sub> "	2'-6 <sup>3</sup> / <sub>8</sub> "	2'-9 <sup>1</sup> / <sub>8</sub> "	3'-0 <sup>3</sup> / <sub>8</sub> "	3'-0 <sup>3</sup> / <sub>4</sub> "	3'-3 <sup>5</sup> / <sub>8</sub> "	3'-6 <sup>1</sup> / <sub>4</sub> "	3'-8 <sup>1</sup> / <sub>16</sub> "	

\* FOR FABRICATION OF STRUCTURAL STEEL - INCLUDES AN ALLOWANCE FOR DEFLECTIONS DUE TO DEAD LOAD OF DECK SLAB CONCRETE AND STRUCTURAL STEEL AND ALSO AN ALLOWANCE FOR THE PROFILE GRADE EFFECT.

DE LEUW, CATHER & COMPANY ENGINEERS



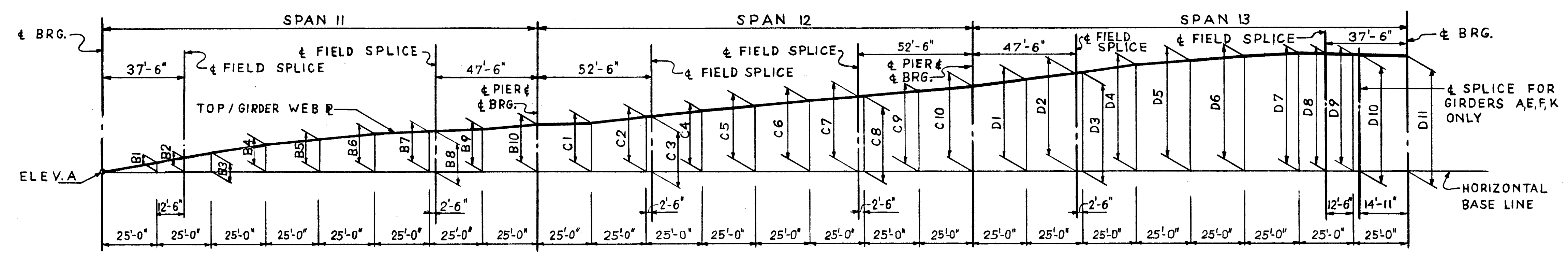


DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W.Y. HUO  
 DRAWN BY L. TROUSIL  
 CHECKED W.Y. HUO  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

\* FOR FABRICATION OF STRUCTURAL STEEL - INCLUDES AN ALLOWANCE FOR DEFLECTIONS DUE TO DEAD LOAD OF DECK SLAB CONCRETE, STRUCTURAL STEEL, PARAPET CONCRETE AND WEARING SURFACE AND ALSO AN ALLOWANCE FOR THE PROFILE GRADE EFFECT.

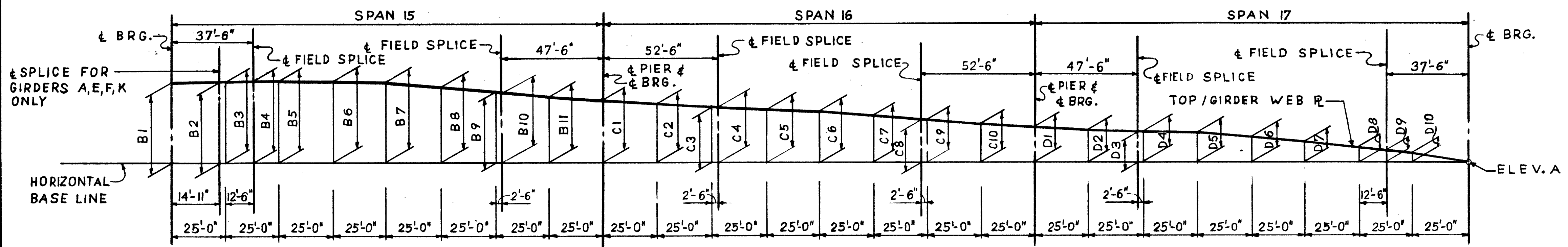
**TOP OF GIRDER WEB ELEVATIONS AND FABRICATION DIAGRAMS UNITS 3 AND 7**  
 F.A.I. ROUTE 280 SECTION 81-IF&E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

TOP/GIRDER WEB ELEVATIONS\* - UNIT 4



GIRDER	ELEV. A	DIMENSION																														
		B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11
A	612.181	5 9/16"	7 15/16"	10 3/8"	1'-2 3/16"	1'-4 15/16"	1'-6 3/4"	1'-7 7/8"	1'-8 11/16"	1'-10 1/16"	2'-0 5/16"	2'-3 3/16"	2'-3 7/16"	2'-6 3/16"	2'-8 7/8"	2'-11 1/8"	3'-0 7/8"	3'-1 1/16"	3'-3 3/8"	3'-5 3/4"	3'-9 1/8"	4'-0 1/2"	4'-0 7/8"	4'-4 5/16"	4'-7"	4'-8 1/2"	4'-8 7/8"	4'-8 9/16"	4'-8 1/4"	4'-7 11/16"	4'-6 13/16"	
B	612.323	5 3/4"	8 5/16"	10 3/4"	1'-2 5/8"	1'-5 7/16"	1'-7 8/8"	1'-8 1/8"	1'-8 13/16"			2'-3 1/4"	2'-3 1/2"	2'-6 5/16"	2'-9 1/16"	2'-11 1/4"	3'-0 15/16"	3'-1 1/8"			3'-9 1/4"	4'-0 3/4"	4'-1 1/8"	4'-4 3/4"	4'-7 1/2"	4'-9"	4'-9 5/16"	4'-9"	4'-8 7/16"		4'-6 15/16"	
C	612.463																															4'-7"
D	612.603	5 3/4"	8 5/16"	10 3/4"	1'-2 5/8"	1'-5 7/16"	1'-7 8/8"	1'-8 1/8"	1'-8 13/16"			2'-3 1/4"	2'-3 1/2"	2'-6 5/16"	2'-9 1/16"	2'-11 1/4"	3'-0 15/16"	3'-1 1/8"			3'-9 1/4"	4'-0 3/4"	4'-1 1/8"	4'-4 3/4"	4'-7 1/2"	4'-9"	4'-9 5/16"	4'-9"	4'-8 7/16"		4'-6 15/16"	
E	612.743	5 9/16"	7 15/16"	10 3/8"	1'-2 3/16"	1'-4 15/16"	1'-6 3/4"	1'-7 7/8"	1'-8 11/16"			2'-3 3/16"	2'-3 7/16"	2'-6 3/16"	2'-8 7/8"	2'-11 1/8"	3'-0 7/8"	3'-1 1/16"			3'-9 1/8"	4'-0 1/2"	4'-0 7/8"	4'-4 5/16"	4'-7"	4'-8 1/2"	4'-8 7/8"	4'-8 9/16"	4'-8 1/4"	4'-7 11/16"	4'-6 13/16"	
F	612.743	5 9/16"	7 15/16"	10 3/8"	1'-2 3/16"	1'-4 15/16"	1'-6 3/4"	1'-7 7/8"	1'-8 11/16"			2'-3 3/16"	2'-3 7/16"	2'-6 3/16"	2'-8 7/8"	2'-11 1/8"	3'-0 7/8"	3'-1 1/16"			3'-9 1/8"	4'-0 1/2"	4'-0 7/8"	4'-4 5/16"	4'-7"	4'-8 1/2"	4'-8 7/8"	4'-8 9/16"	4'-8 1/4"	4'-7 11/16"	4'-6 13/16"	
G	612.603	5 3/4"	8 5/16"	10 3/4"	1'-2 5/8"	1'-5 7/16"	1'-7 8/8"	1'-8 1/8"	1'-8 13/16"			2'-3 1/4"	2'-3 1/2"	2'-6 5/16"	2'-9 1/16"	2'-11 1/4"	3'-0 15/16"	3'-1 1/8"			3'-9 1/4"	4'-0 3/4"	4'-1 1/8"	4'-4 3/4"	4'-7 1/2"	4'-9"	4'-9 5/16"	4'-9"	4'-8 7/16"		4'-6 15/16"	
H	612.463																															4'-7"
J	612.323	5 3/4"	8 5/16"	10 3/4"	1'-2 5/8"	1'-5 7/16"	1'-7 8/8"	1'-8 1/8"	1'-8 13/16"			2'-3 1/4"	2'-3 1/2"	2'-6 5/16"	2'-9 1/16"	2'-11 1/4"	3'-0 15/16"	3'-1 1/8"			3'-9 1/4"	4'-0 3/4"	4'-1 1/8"	4'-4 3/4"	4'-7 1/2"	4'-9"	4'-9 5/16"	4'-9"	4'-8 7/16"		4'-6 15/16"	
K	612.181	5 9/16"	7 15/16"	10 3/8"	1'-2 3/16"	1'-4 15/16"	1'-6 3/4"	1'-7 7/8"	1'-8 11/16"	1'-10 1/16"	2'-0 5/16"	2'-3 3/16"	2'-3 7/16"	2'-6 3/16"	2'-8 7/8"	2'-11 1/8"	3'-0 7/8"	3'-1 1/16"	3'-3 3/8"	3'-5 3/4"	3'-9 1/8"	4'-0 1/2"	4'-0 7/8"	4'-4 5/16"	4'-7"	4'-8 1/2"	4'-8 7/8"	4'-8 9/16"	4'-8 1/4"	4'-7 11/16"	4'-6 13/16"	

TOP/GIRDER WEB ELEVATIONS\* - UNIT 6



GIRDER	ELEV. A	DIMENSION																														
		B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
A	611.807	4'-11 5/16"	5'-0 1/8"	5'-0 3/4"	5'-1 1/16"	5'-1 3/8"	5'-1"	4'-11 1/2"	4'-8 3/16"	4'-5 3/8"	4'-5"	4'-1 5/8"	3'-10 1/4"	3'-7 5/8"	3'-5 9/16"	3'-5 3/8"	3'-3 5/8"	3'-1 3/8"	2'-10 1/16"	2'-7 15/16"	2'-7 5/8"	2'-4 3/4"	2'-2 1/2"	2'-0 7/8"	1'-11 3/16"	1'-11 1/16"	1'-10 1/4"	1'-7 15/16"	1'-4 9/16"	1'-0"	9 3/16"	6 3/8"
B	611.948	4'-11 7/16"		5'-1 1/16"	5'-1 9/16"	5'-1 7/8"	5'-1 9/16"	5'-0"	4'-9 1/4"	4'-5 5/8"	4'-5 1/4"	4'-1 3/4"			3'-5 5/8"		3'-3 3/4"	3'-1 9/16"	2'-10 13/16"	2'-8 1/16"	2'-7 11/16"	2'-4 13/16"		2'-1"	2'-0 1/16"	1'-11 15/16"	1'-10 5/8"	1'-8 7/16"	1'-5"	1'-0 3/8"	9 9/16"	6 9/16"
C	612.089	4'-11 1/2"																														
D	612.229	4'-11 7/16"		5'-1 1/16"	5'-1 9/16"	5'-1 7/8"	5'-1 9/16"	5'-0"	4'-9 1/4"	4'-5 5/8"	4'-5 1/4"	4'-1 3/4"			3'-5 5/8"		3'-3 3/4"	3'-1 9/16"	2'-10 13/16"	2'-8 1/16"	2'-7 11/16"	2'-4 13/16"		2'-1"	2'-0 1/16"	1'-11 15/16"	1'-10 5/8"	1'-8 7/16"	1'-5"	1'-0 3/8"	9 9/16"	6 9/16"
E	612.368	4'-11 5/16"	5'-0 1/8"	5'-0 3/4"	5'-1 1/16"	5'-1 3/8"	5'-1"	4'-11 1/2"	4'-8 3/16"	4'-5 3/8"	4'-5"	4'-1 5/8"			3'-5 9/16"		3'-3 5/8"	3'-1 3/8"	2'-10 1/16"	2'-7 15/16"	2'-7 5/8"	2'-4 3/4"		2'-0 7/8"	1'-11 3/16"	1'-11 1/16"	1'-10 1/4"	1'-7 15/16"	1'-4 9/16"	1'-0"	9 3/16"	6 3/8"
F	612.368	4'-11 5/16"	5'-0 1/8"	5'-0 3/4"	5'-1 1/16"	5'-1 3/8"	5'-1"	4'-11 1/2"	4'-8 3/16"	4'-5 3/8"	4'-5"	4'-1 5/8"			3'-5 9/16"		3'-3 5/8"	3'-1 3/8"	2'-10 1/16"	2'-7 15/16"	2'-7 5/8"	2'-4 3/4"		2'-0 7/8"	1'-11 3/16"	1'-11 1/16"	1'-10 1/4"	1'-7 15/16"	1'-4 9/16"	1'-0"	9 3/16"	6 3/8"
G	612.229	4'-11 7/16"		5'-1 1/16"	5'-1 9/16"	5'-1 7/8"	5'-1 9/16"	5'-0"	4'-9 1/4"	4'-5 5/8"	4'-5 1/4"	4'-1 3/4"			3'-5 5/8"		3'-3 3/4"	3'-1 9/16"	2'-10 13/16"	2'-8 1/16"	2'-7 11/16"	2'-4 13/16"		2'-1"	2'-0 1/16"	1'-11 15/16"	1'-10 5/8"	1'-8 7/16"	1'-5"	1'-0 3/8"	9 9/16"	6 9/16"
H	612.089	4'-11 1/2"																														
J	611.948	4'-11 7/16"		5'-1 1/16"	5'-1 9/16"	5'-1 7/8"	5'-1 9/16"	5'-0"	4'-9 1/4"	4'-5 5/8"	4'-5 1/4"	4'-1 3/4"			3'-5 5/8"		3'-3 3/4"	3'-1 9/16"	2'-10 13/16"	2'-8 1/16"	2'-7 11/16"	2'-4 13/16"		2'-1"	2'-0 1/16"	1'-11 15/16"	1'-10 5/8"	1'-8 7/16"	1'-5"	1'-0 3/8"	9 9/16"	6 9/16"
K	611.807	4'-11 5/16"	5'-0 1/8"	5'-0 3/4"	5'-1 1/16"	5'-1 3/8"	5'-1"	4'-11 1/2"	4'-8 3/16"	4'-5 3/8"	4'-5"	4'-1 5/8"	3'-10 1/4"	3'-7 5/8"	3'-5 9/16"	3'-5 3/8"	3'-3 5/8"	3'-1 3/8"	2'-10 1/16"	2'-7 15/16"	2'-7 5/8"	2'-4 3/4"	2'-2 1/2"	2'-0 7/8"	1'-11 3/16"	1'-11 1/16"	1'-10 1/4"	1'-7 15/16"	1'-4 9/16"	1'-0"	9 3/16"	6 3/8"

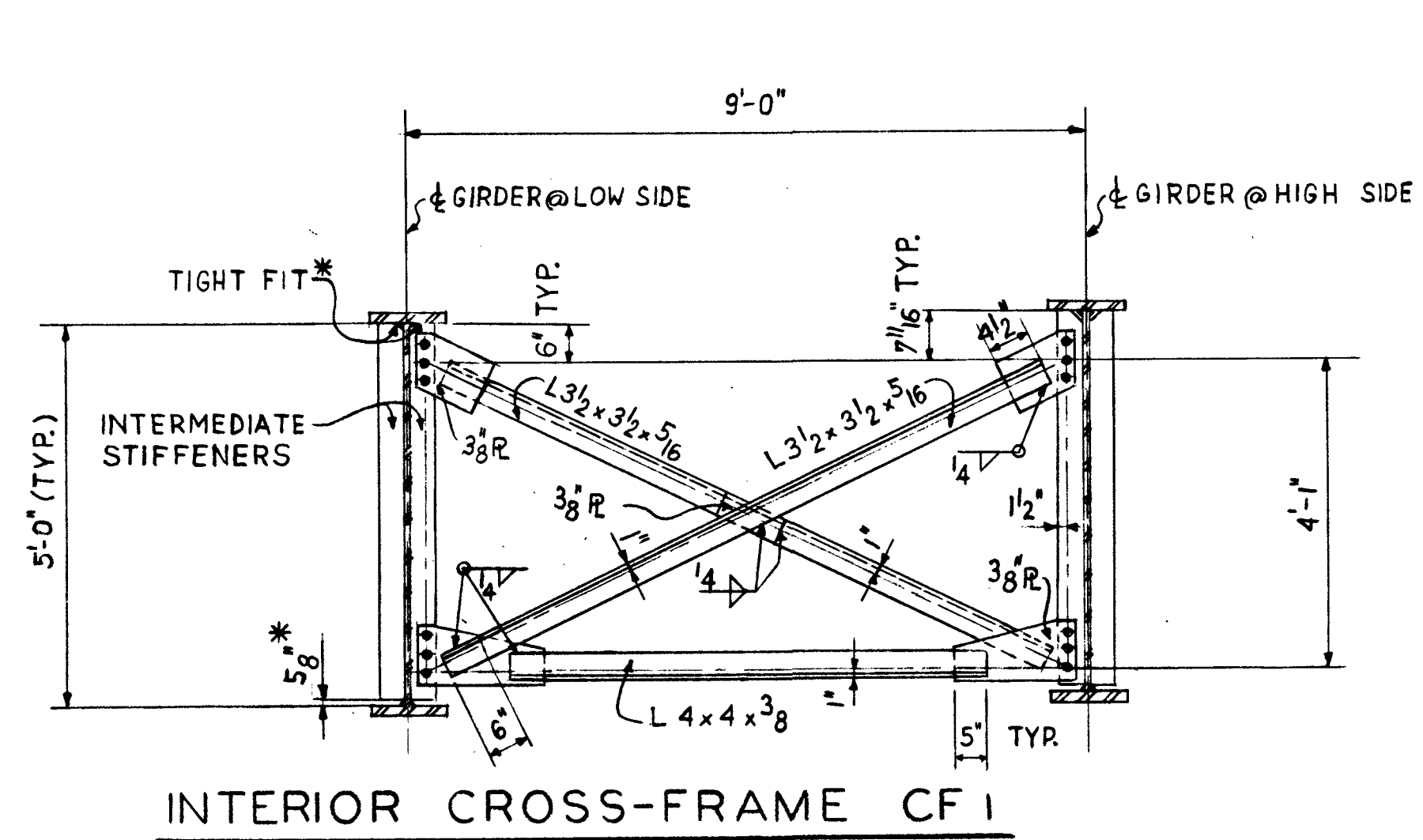
DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY WY. HUO  
 DRAWN BY L. TROUSIL  
 CHECKED W.Y. HUO  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

\* FOR FABRICATION OF STRUCTURAL STEEL - INCLUDES AN ALLOWANCE FOR DEFLECTIONS DUE TO DEAD LOAD OF DECK SLAB CONCRETE, STRUCTURAL STEEL, PARAPET CONCRETE AND WEARING SURFACE AND ALSO AN ALLOWANCE FOR THE PROFILE GRADE EFFECT.

TOP OF GIRDER WEB ELEVATIONS AND FABRICATION DIAGRAMS UNITS 4 AND 6  
 F.A.I. ROUTE 280 SECTION 81-IF&E I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

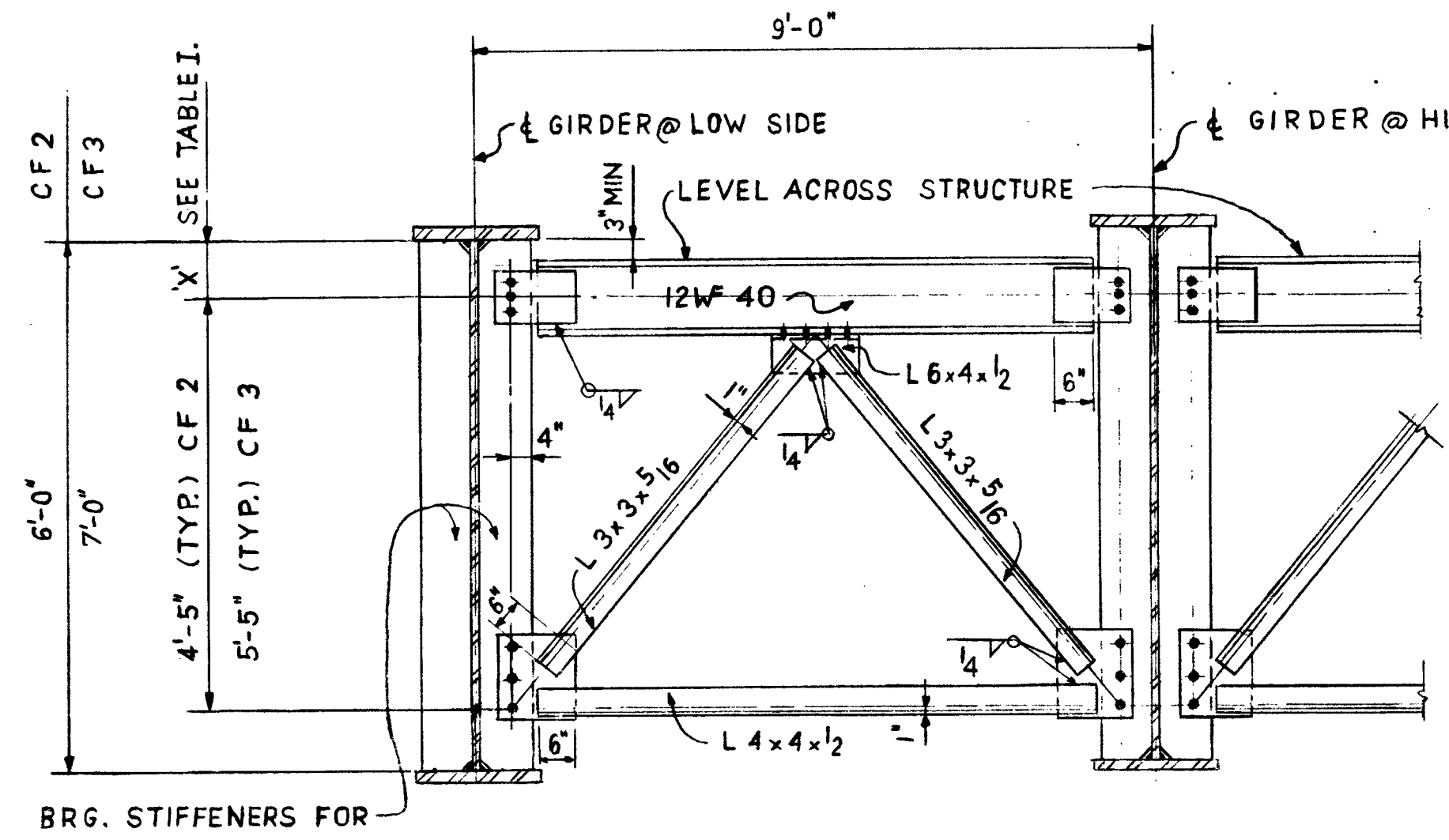


ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF & E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	22
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		



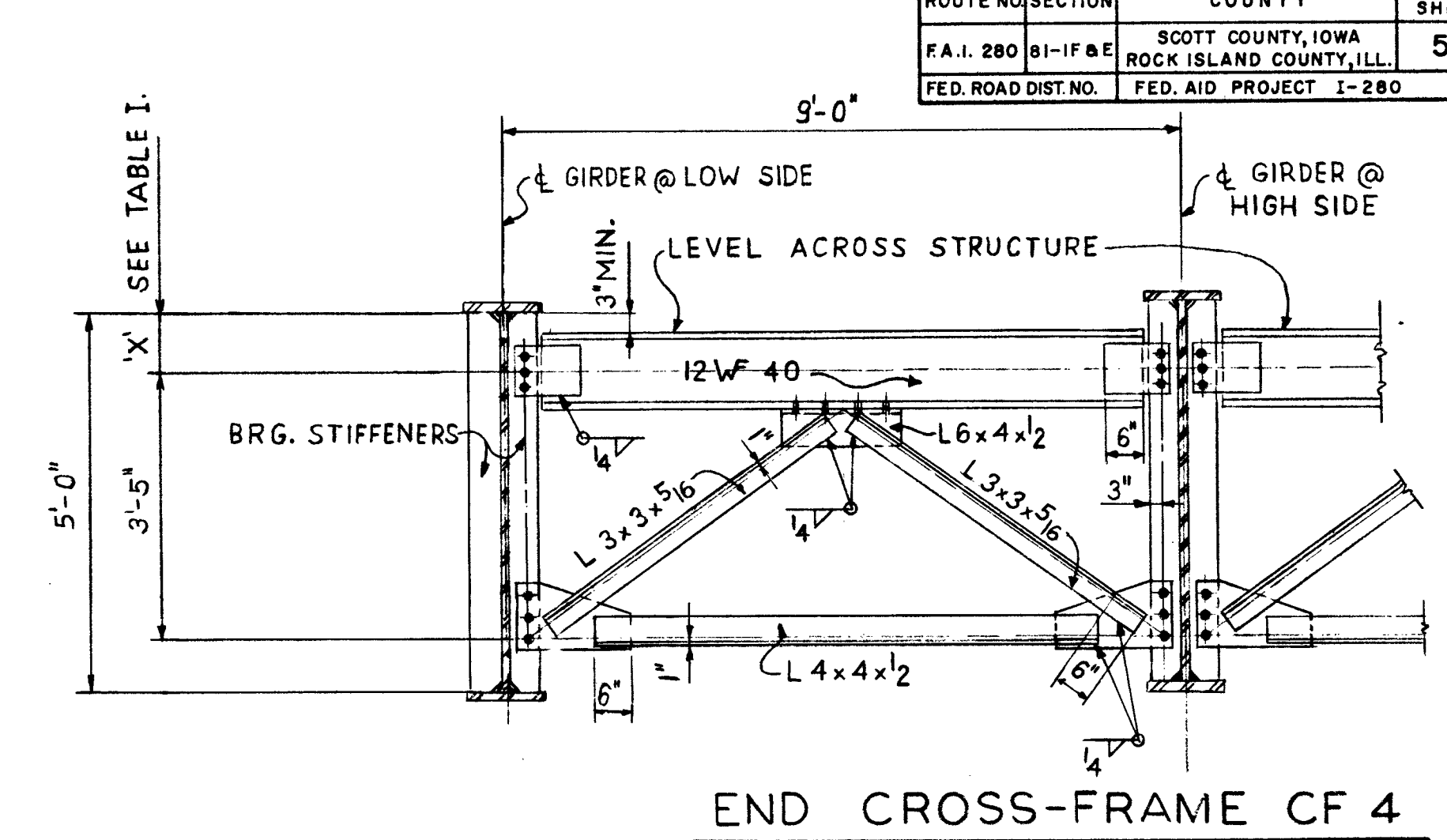
INTERIOR CROSS-FRAME CF 1

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



END CROSS-FRAME CF 2 & CF 3

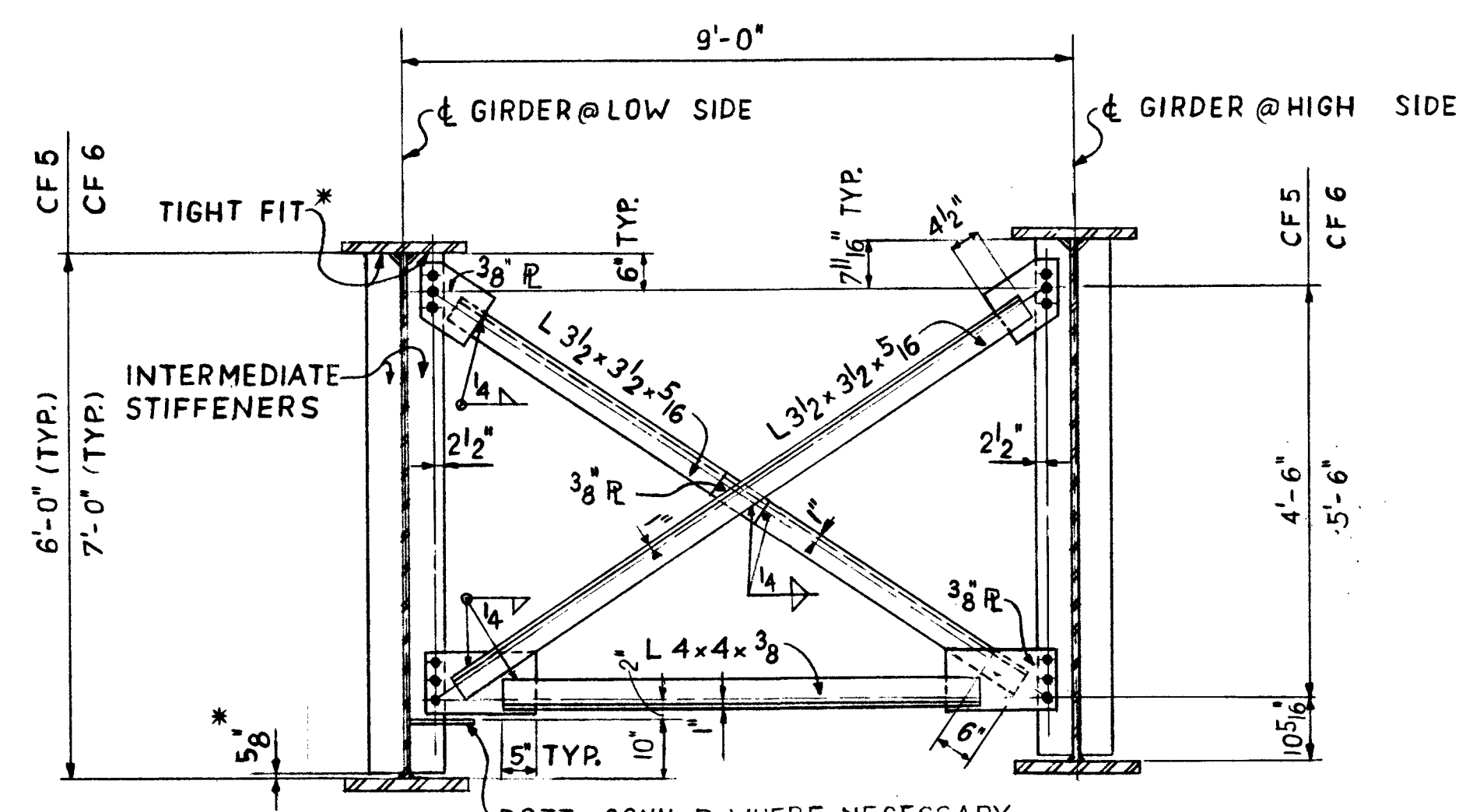
SCALE: 1/2" = 1'-0"



END CROSS-FRAME CF 4

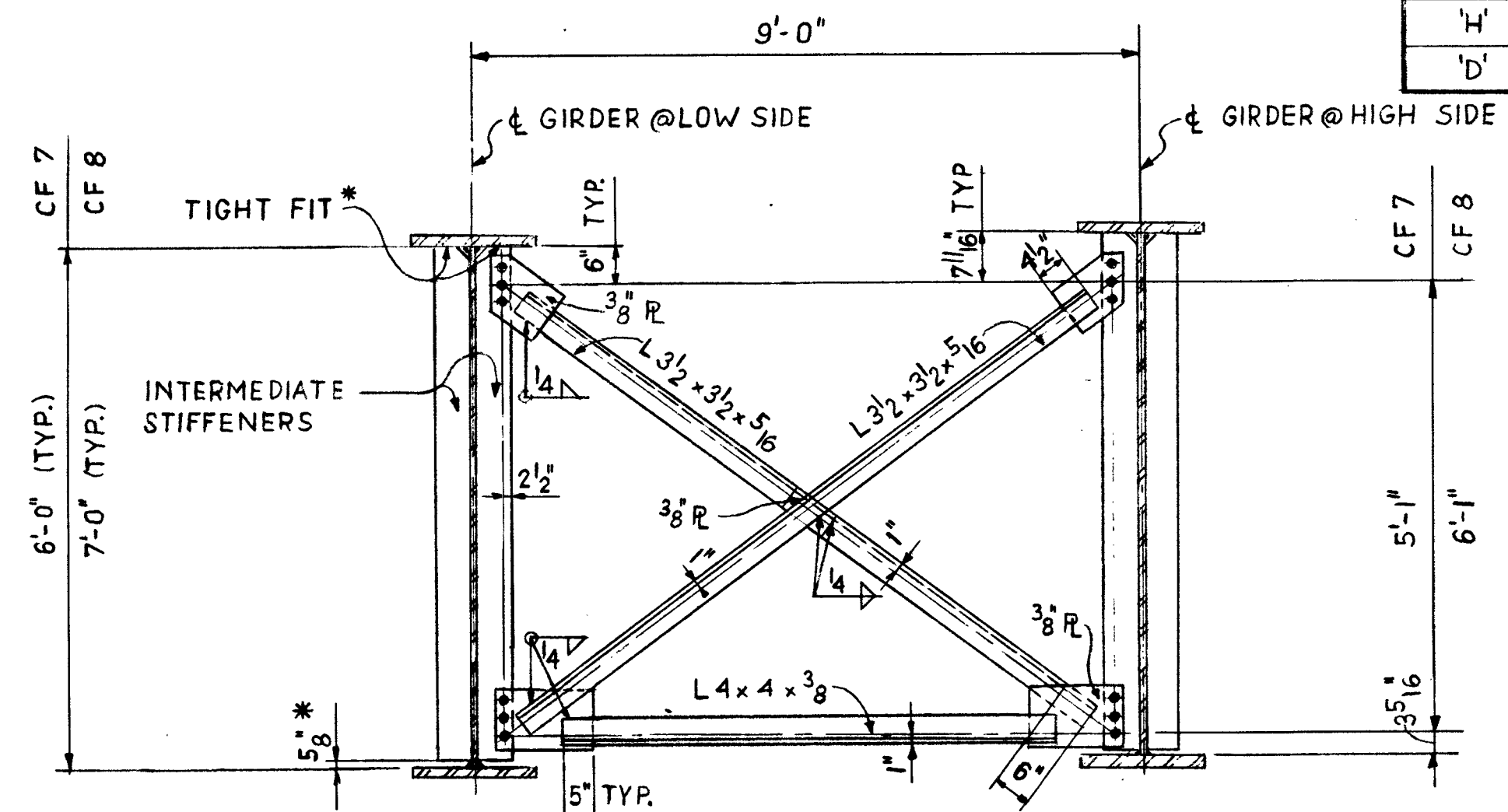
SCALE: 1/2" = 1'-0"

\* NOTE: FOR TYPE 'A' STIFFENER ONLY  
FOR TYPE 'B' SEE DETAIL THIS SHEET.



INTERIOR CROSS-FRAME CF 5 & CF 6

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



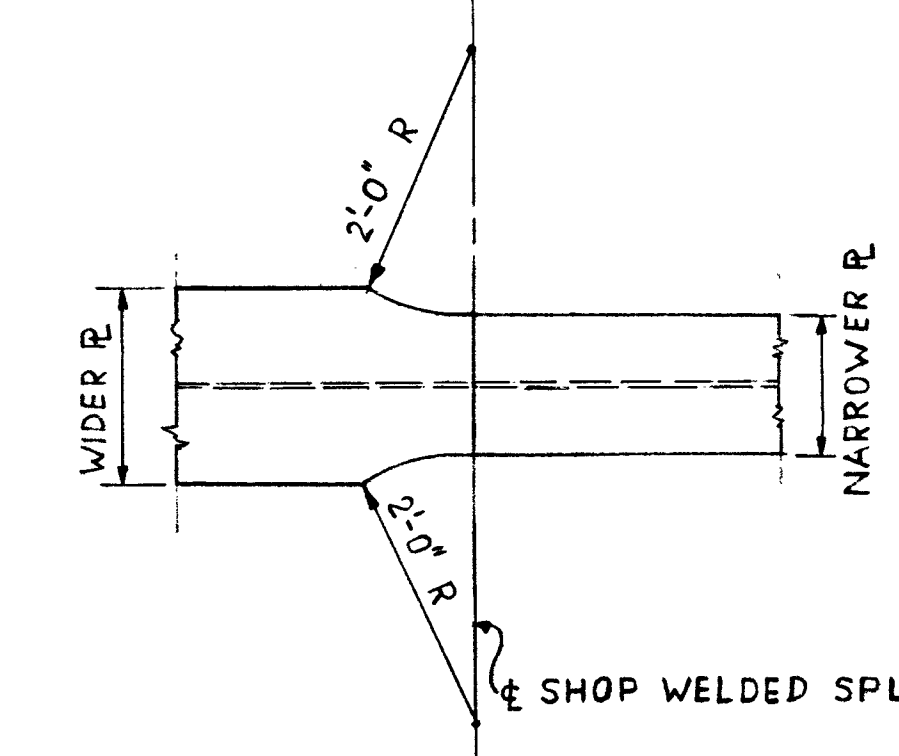
INTERIOR CROSS-FRAME CF 7 & CF 8

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

TABLE I.

GIRDER @ LOW SIDE	'X'
'A' & 'K'	9"
'J' & 'B'	10 11/16"
'H' & 'C'	1'-0 3/8"
'D' & 'G'	1'-2 1/16"

3/4" φ x 5" CR 1020 STL.  
GRANULAR OR FLUX FILLED STUDS, AUTO-MATICALLY END WELDED.  
TYP. EXCEPT NOTED BELOW  
UNITS 3, 4, 6, & 7 3 SPACES @ 3"  
3 SPACES @ 4"

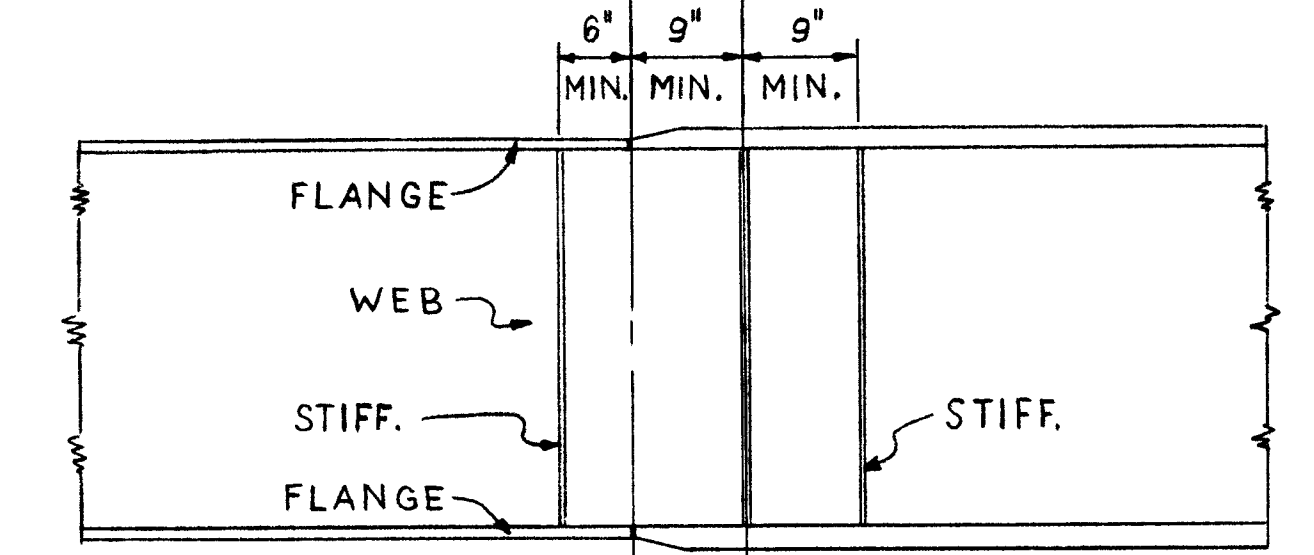


DETAIL OF SHEAR CONNECTORS

FOR SHEAR CONNECTOR LOCATION & SPACING  
SEE GIRDER ELEVATIONS  
SCALE: 1/2" = 1'-0"

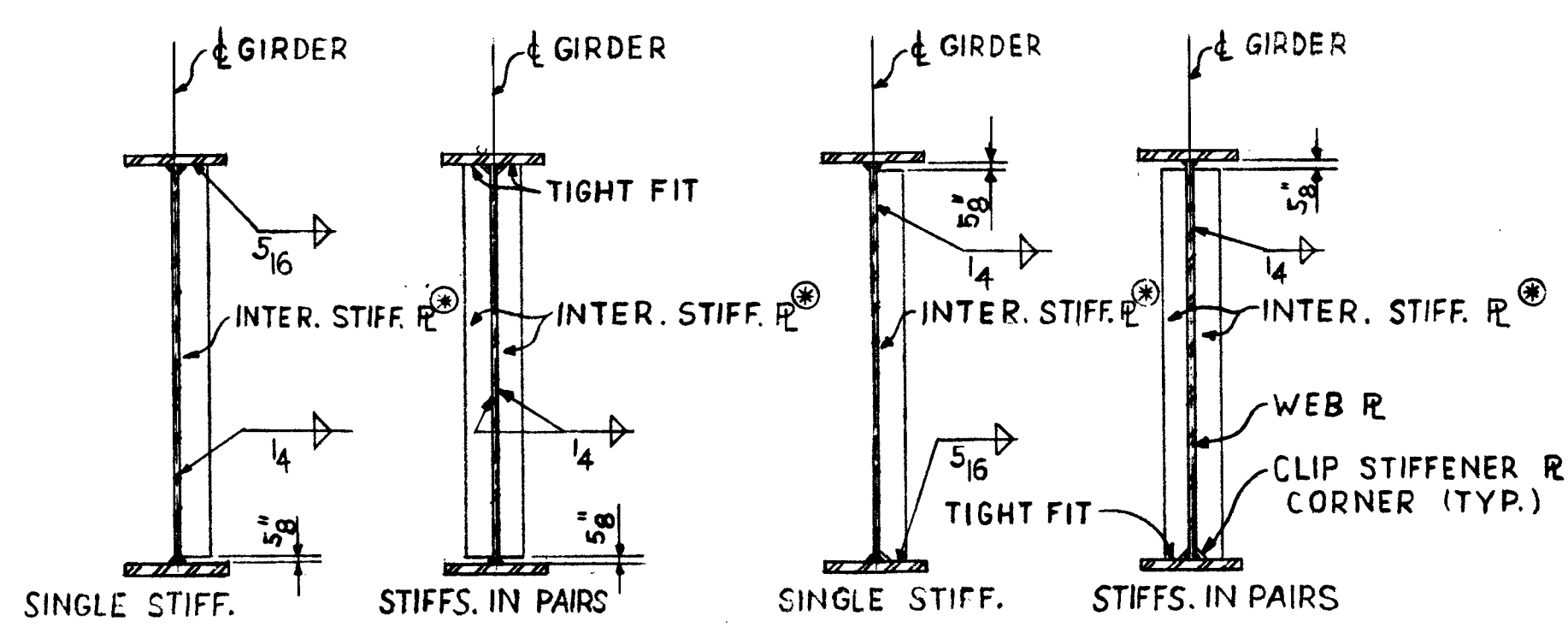
DETAIL OF FLANGE PLATE  
WIDTH TRANSITION

SHOP WELDED FLANGES PLICE  
SHOP WELDED WEB SPLICE  
OPTIONAL (SEE DETAIL)

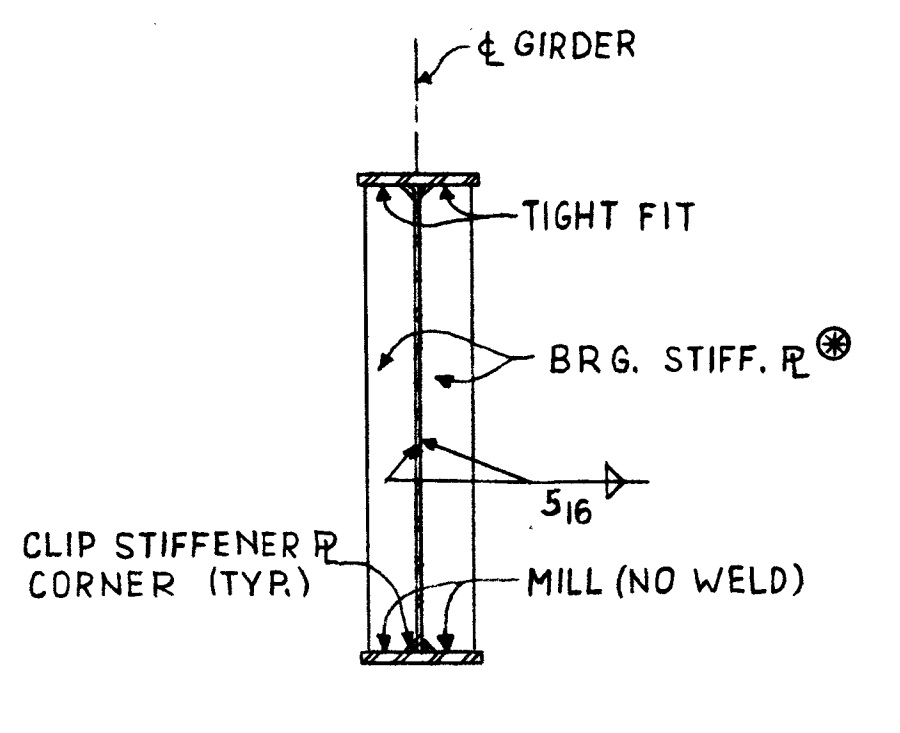


DETAIL AT GIRDER SHOP SPLICES

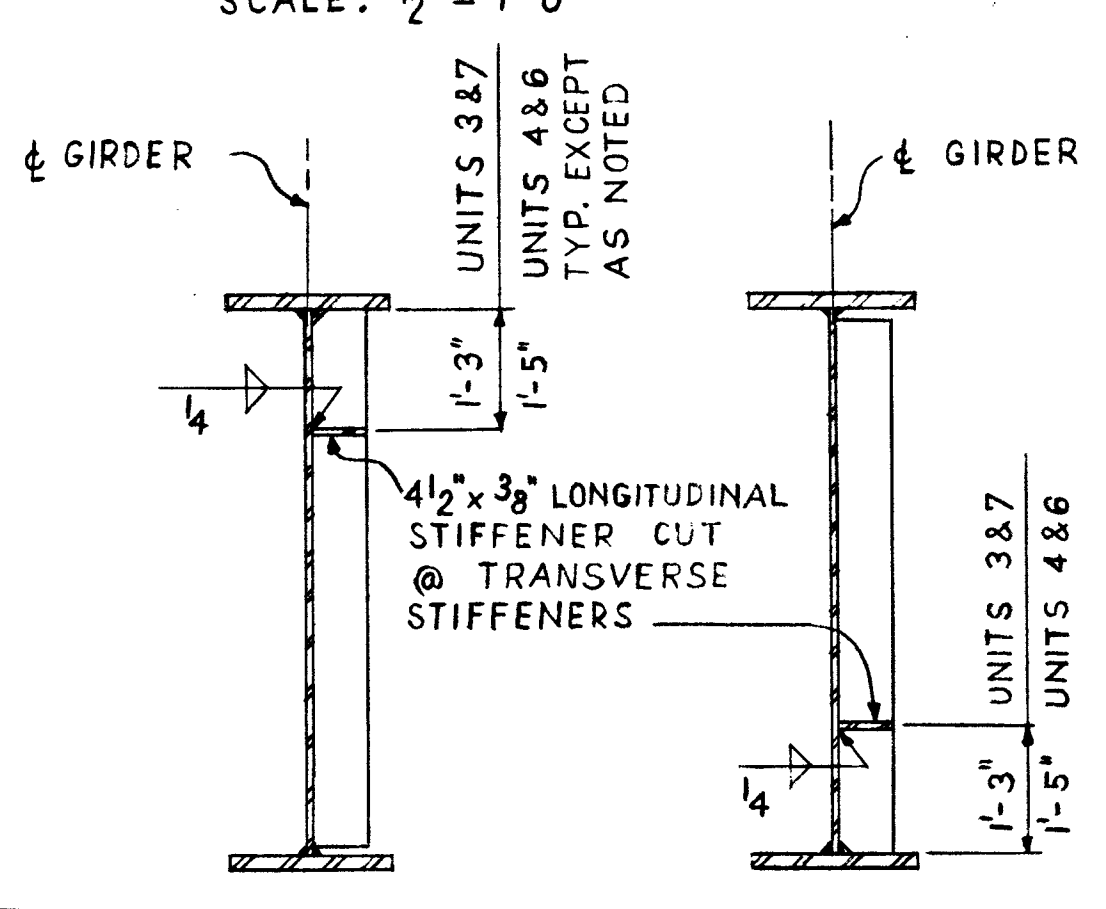
NOTE: ALL FASTENERS FOR CROSSFRAME CONNECTIONS SHALL BE ASTM-A325 HIGH STRENGTH BOLTS.  
BOLTS 3/4" φ; OPEN HOLES 13/16" φ.



TYPE 'A' INTERMEDIATE STIFFENER DETAIL



BRG. STIFFENER DETAIL



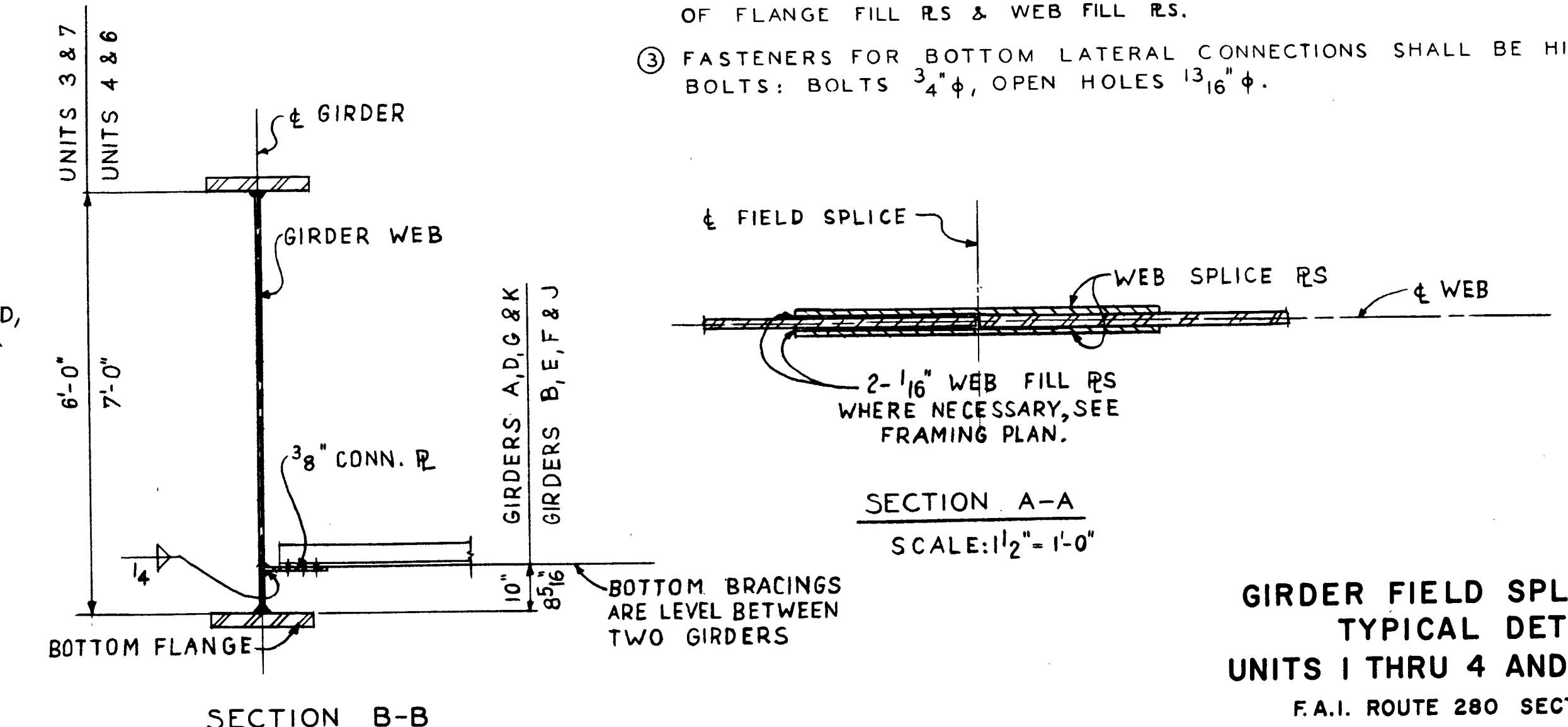
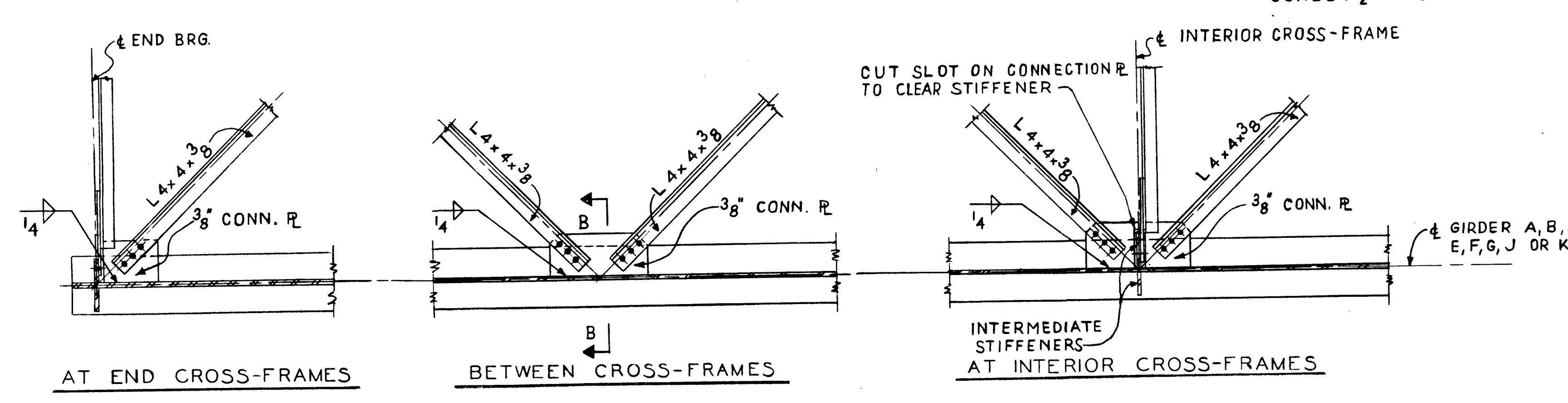
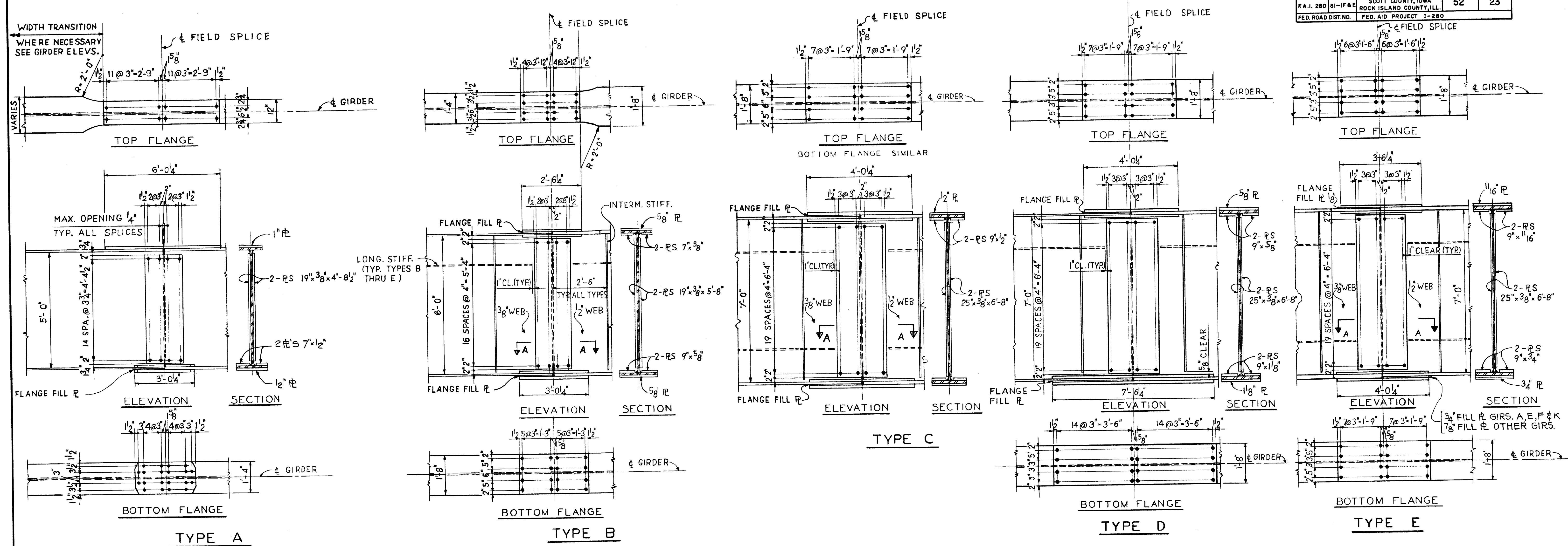
LONGITUDINAL STIFFENER DETAIL

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.Y. HUO  
DRAWN BY L. TROUSIL  
CHECKED BY W.Y. HUO  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

\* NOTE: FOR PLATE SIZE SEE GIRDER ELEVATIONS EACH UNIT.

CROSS FRAME & TYPICAL DETAILS  
UNITS 1 THRU 4 AND 6 THRU 9  
F.A.I. ROUTE 280 SECTION 81-IF & E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

ROUTE NO/SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	23
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	

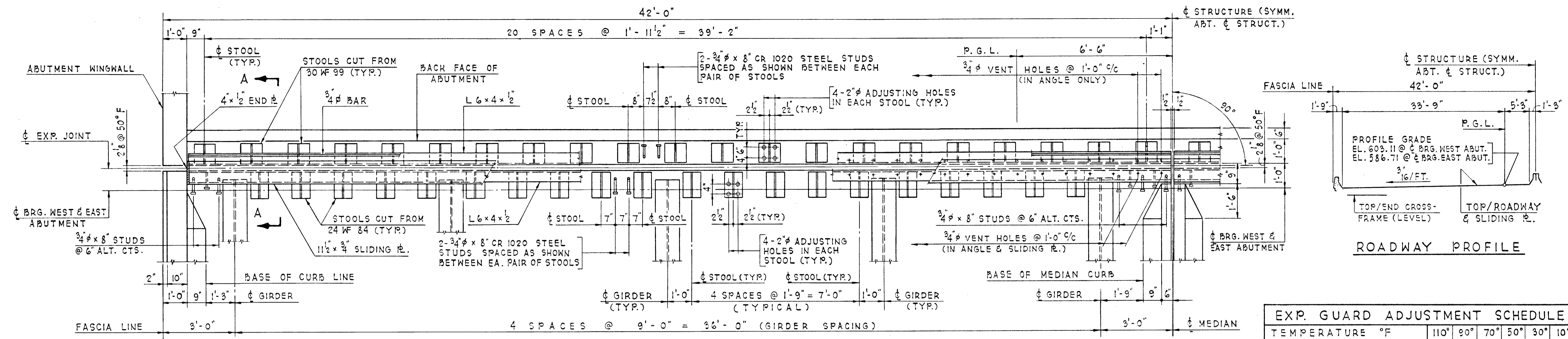


**GIRDER FIELD SPLICES AND TYPICAL DETAILS**  
 UNITS 1 THRU 4 AND 6 THRU 9  
 F.A.I. ROUTE 280 SECTION 81-IF&E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W.Y. HUO  
 DRAWN BY L. TROUSIL  
 CHECKED W.Y. HUO  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN



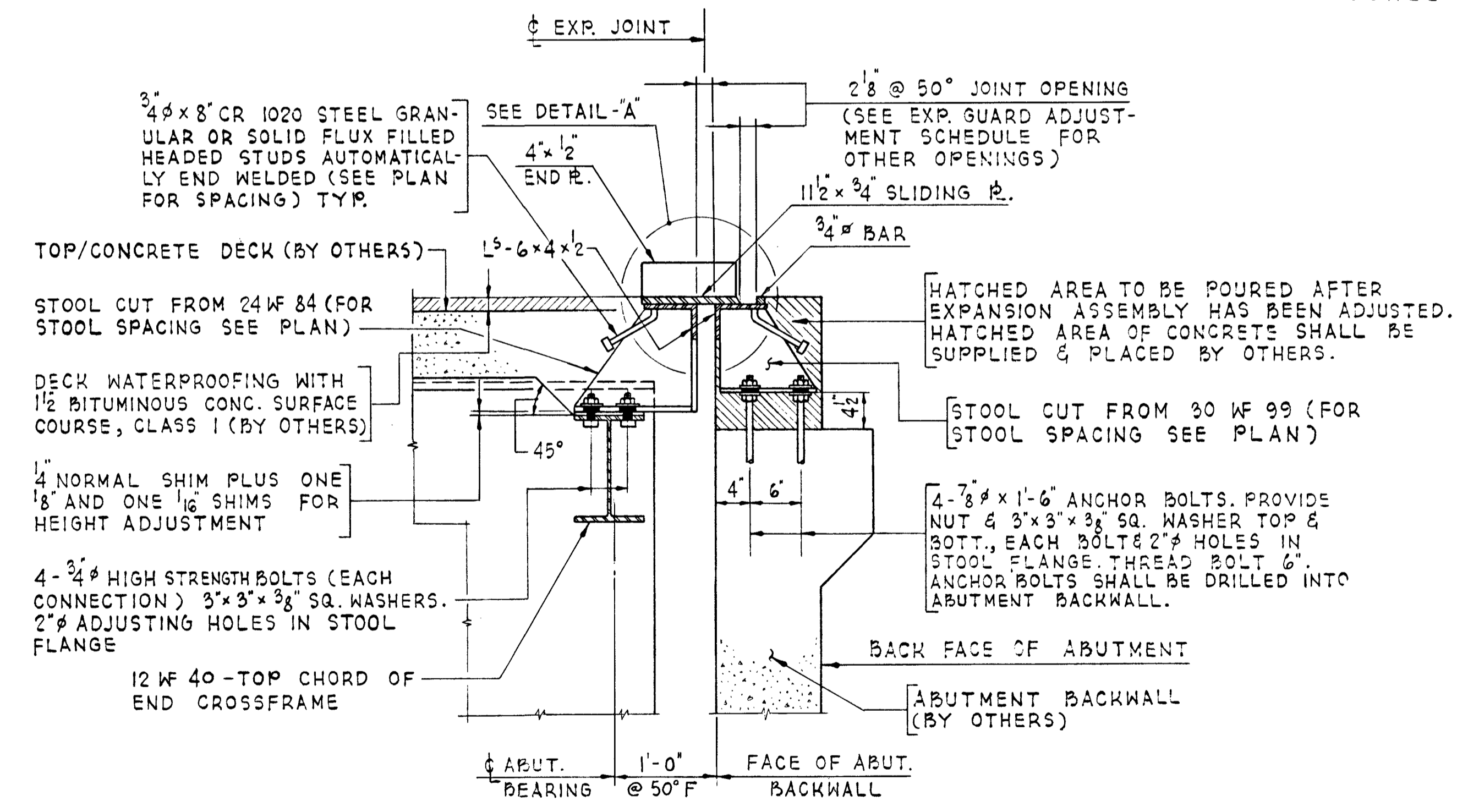
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	24
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		



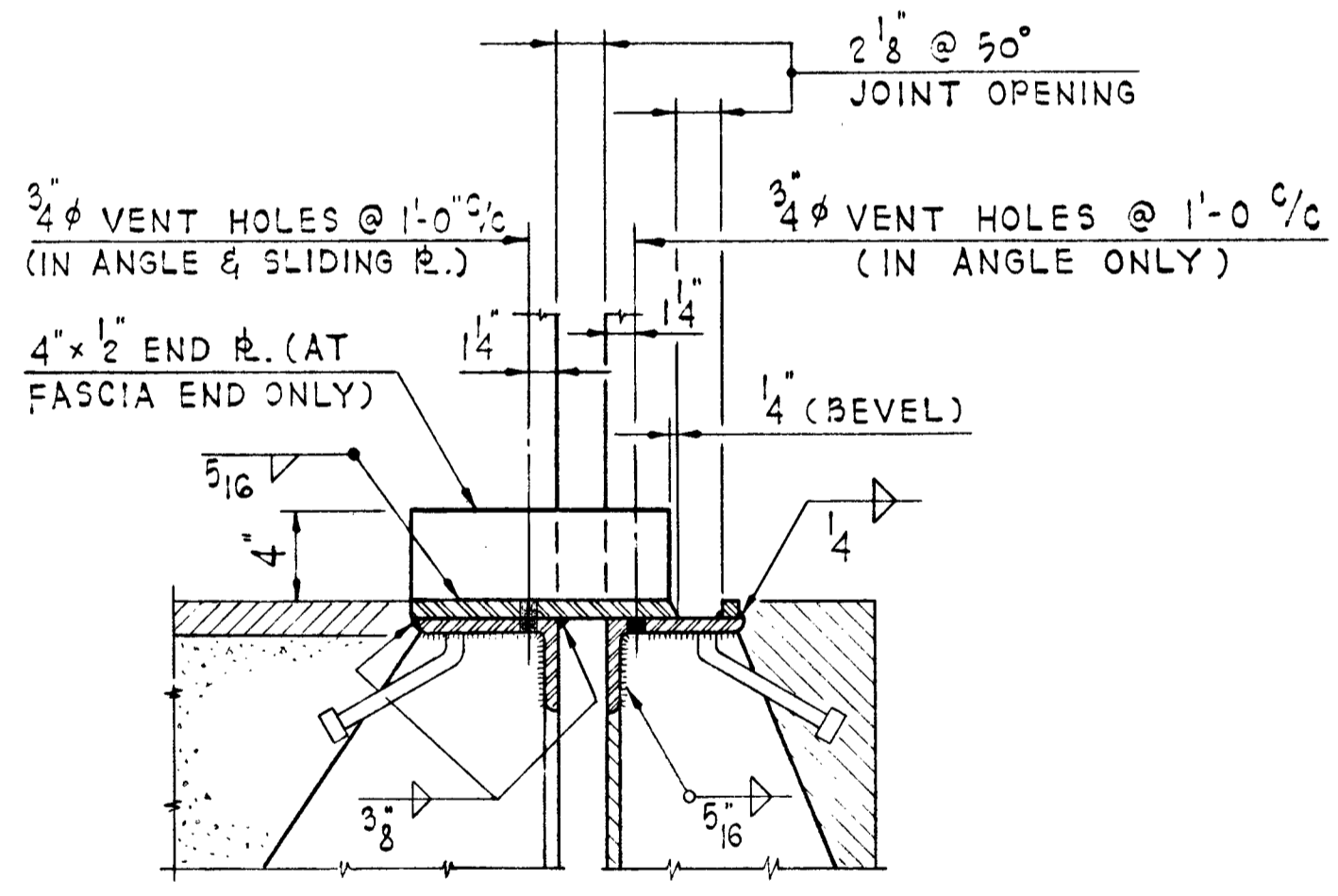
**PLAN OF SLIDING PLATE EXPANSION GUARD  
AT WEST & EAST ABUTMENTS**  
SCALE: 1/2" = 1'-0"

TEMPERATURE °F	110°	90°	70°	50°	30°	10°
JOINT OPENING *	1 3/16"	1 1/2"	1 13/16"	2 1/8"	2 7/16"	2 3/4"

\*JOINT OPENING WILL INCREASE OR DECREASE APPROX. 1/4 FOR EACH 10° DROP OR RISE IN TEMPERATURE.



**SECTION A - A**  
SCALE: 1" = 1'-0"



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

**EXPANSION GUARD NOTES:**  
 ALL STRUCTURAL STEEL SHALL BE ASTM - A36.  
 SEE SECTION 503.08 (C) OF THE STANDARD SPECIFICATIONS FOR EXPANSION GUARD JOINT OPENINGS.  
 FOR STRUCTURAL STEEL NOTES SEE SHEET 8.  
 ALL EXPANSION GUARD ASSEMBLIES SHALL BE FABRICATED & ERECTED TO CONFORM TO THE ROADWAY CROWN AND SLOPE OF GRADE AT THE GUARD. THEY SHALL BE ASSEMBLED IN THE SHOP FOR INSPECTION.  
 ALL PARTS OF GUARD ASSEMBLY INCLUDING STUDS SHALL BE INCLUDED IN STRUCTURAL STEEL FOR PAYMENT.  
 P.G.L. DENOTES PROFILE GRADE LINE.

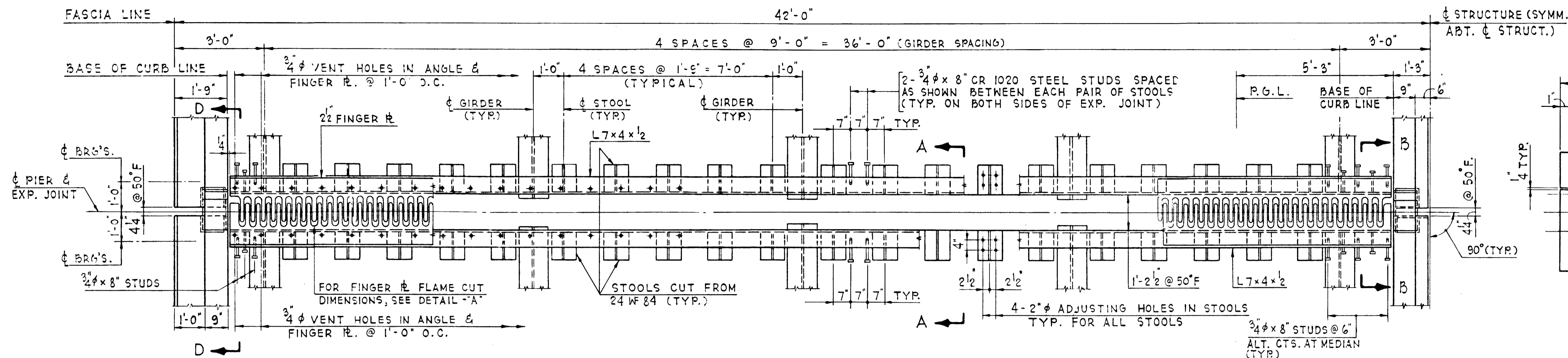
DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY \_\_\_\_\_  
 DRAWN BY F. BOBINAS  
 CHECKED BY W. J. ZAPFEL  
 IN CHARGE W. J. ZAPFEL  
 APPROVED W. G. HORN

**EXPANSION GUARD  
EAST AND WEST ABUTMENTS**  
 F.A.I. ROUTE 280 SECTION 81-IF&E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

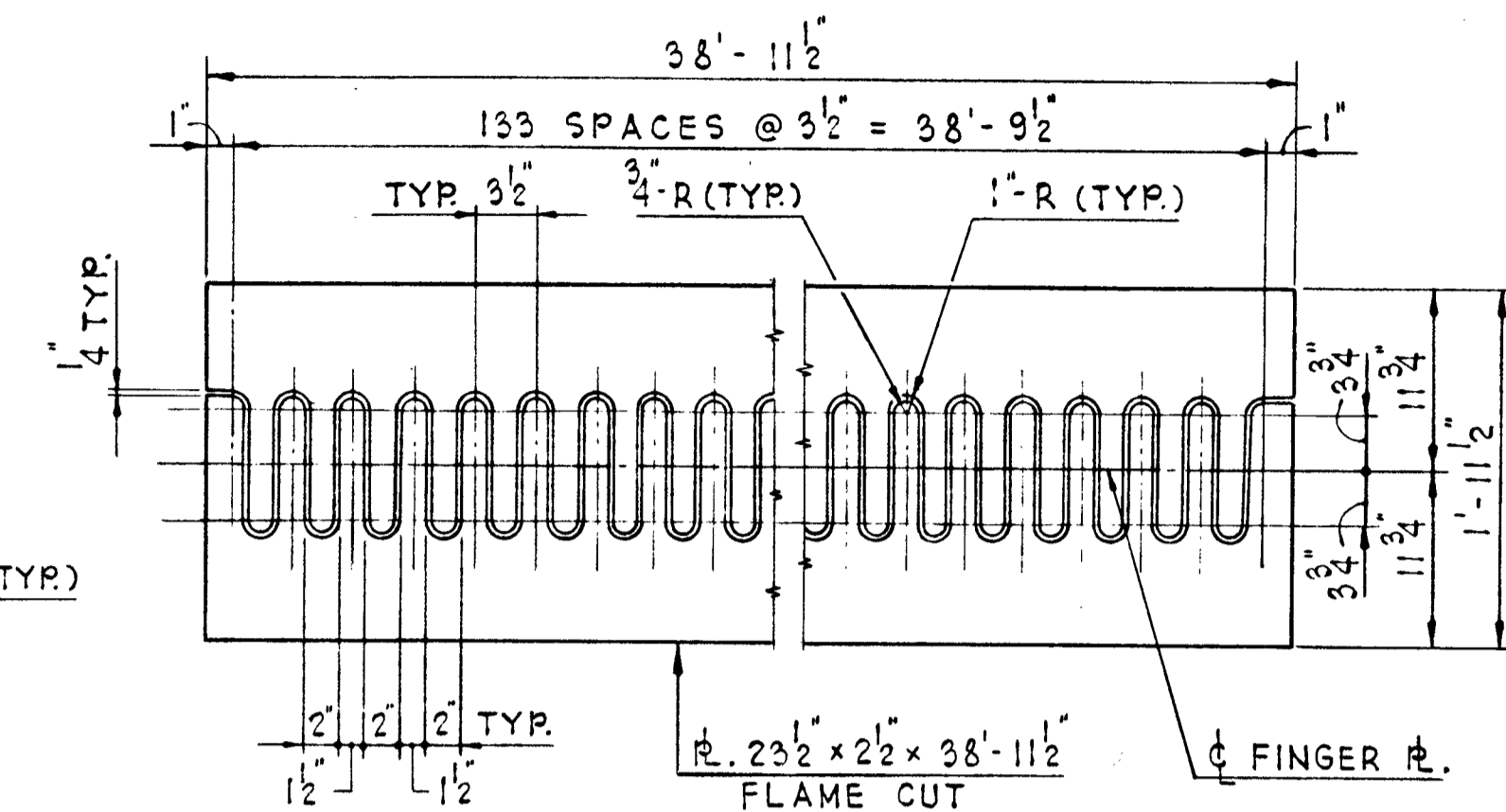




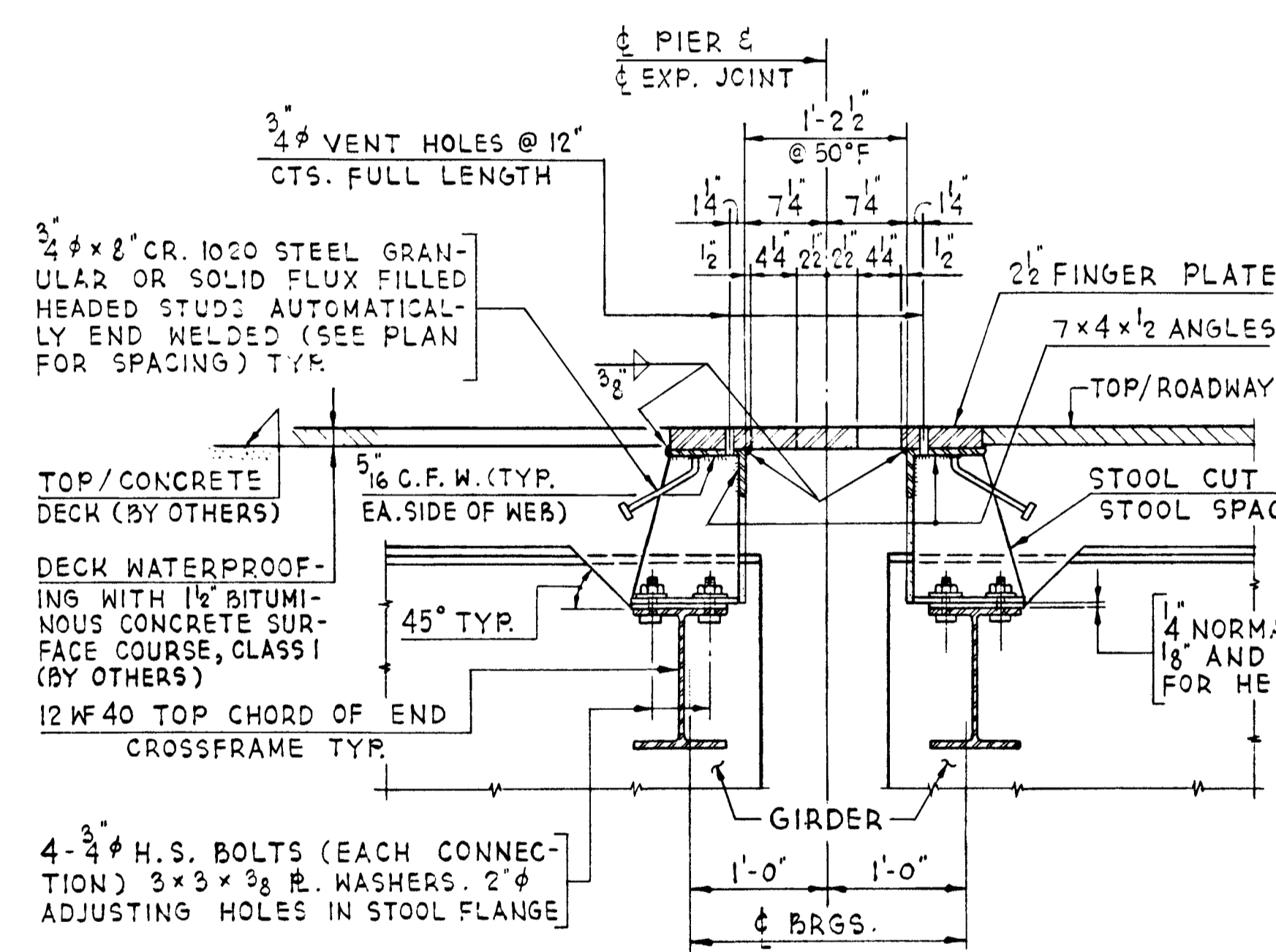
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	26
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



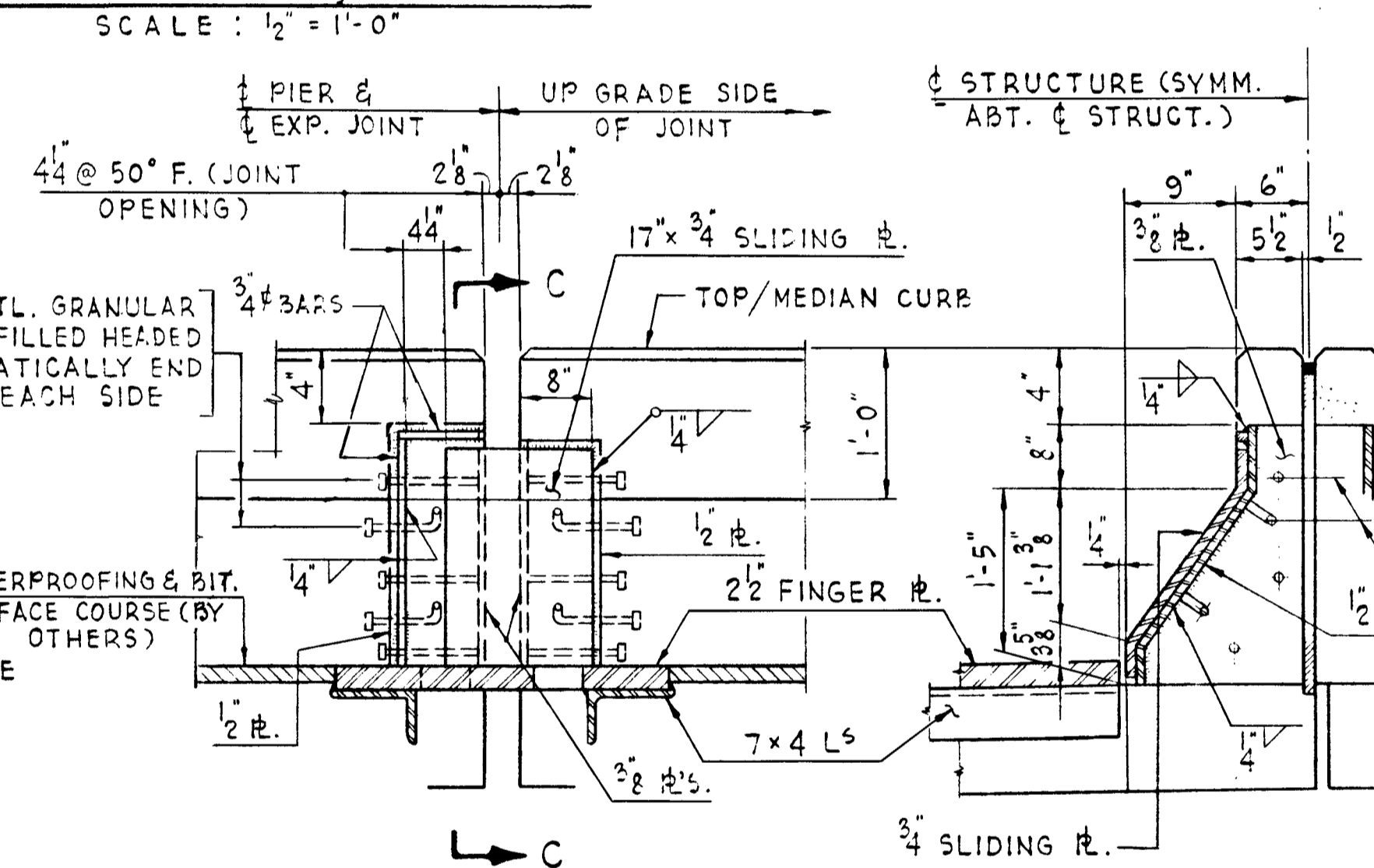
PLAN OF FINGER PLATE EXPANSION GUARD FOR PIERS #7, #17 & #20  
SCALE: 1/2" = 1'-0"



DETAIL - "A"  
SCALE: 1" = 1'-0"

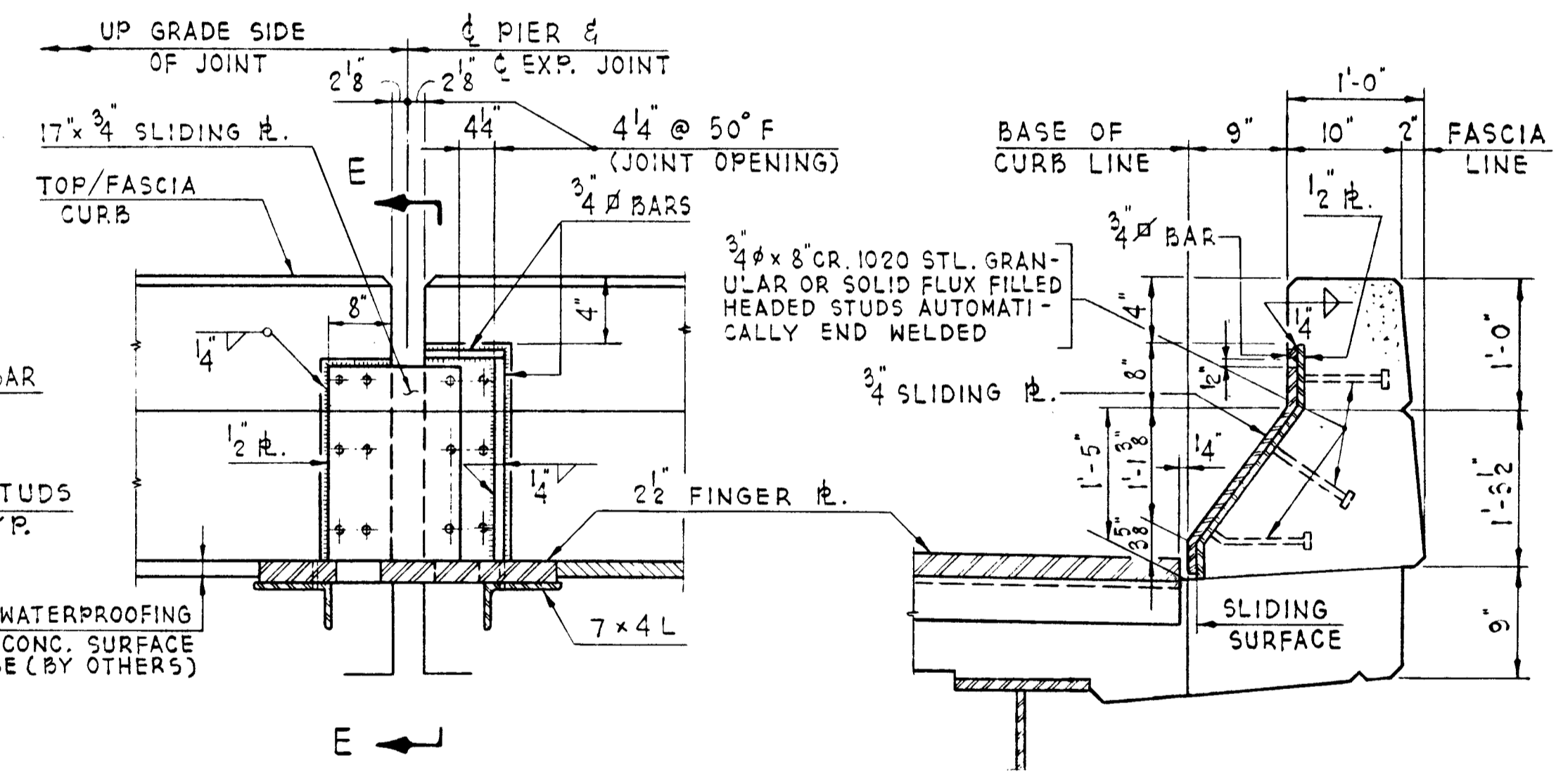


SECTION A - A  
SCALE: 1" = 1'-0"



SECTION B - B SECTION C - C

EXPANSION JOINT AT MEDIAN CURB  
SCALE: 1" = 1'-0"

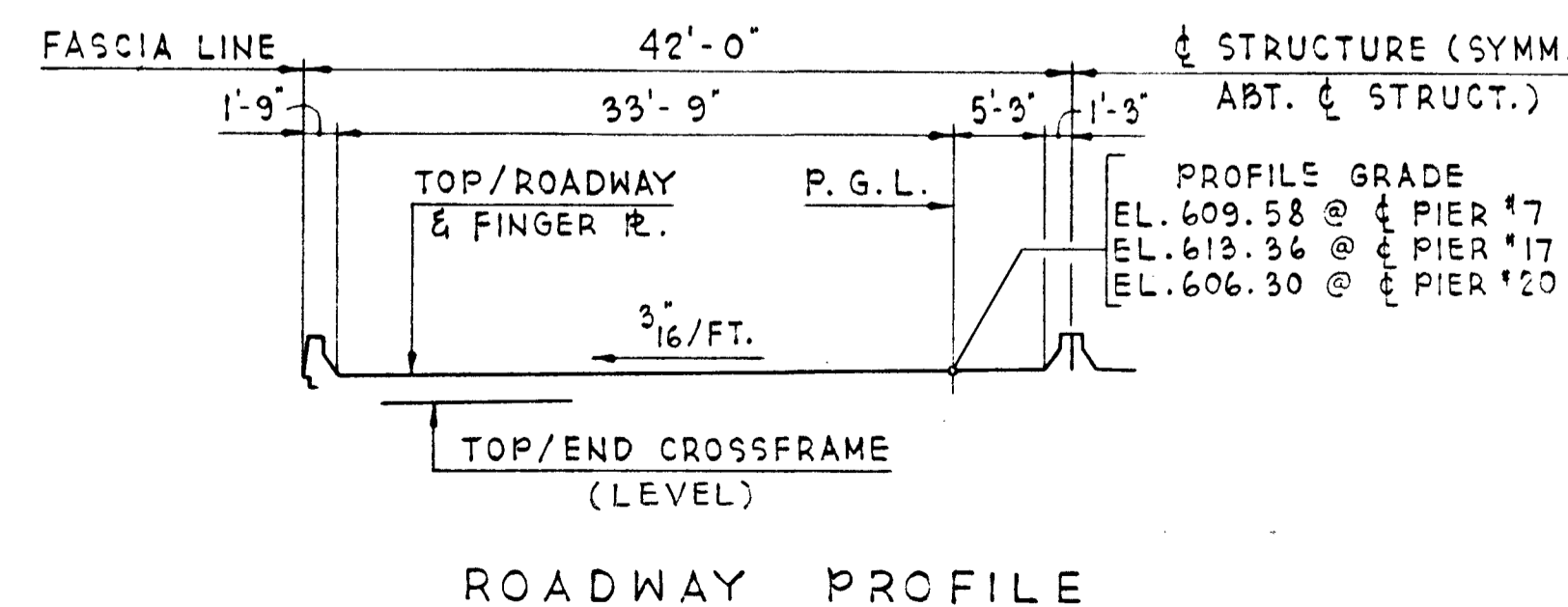


SECTION D - D SECTION E - E

EXPANSION JOINT AT FASCIA CURB  
SCALE: 1" = 1'-0"

EXP. GUARD ADJUSTMENT SCHEDULE						
TEMPERATURE °F	110°	90°	70°	50°	30°	10°
JT. OPENING @ PIERS 7 & 20	1 7/8"	2 1/16"	3 7/16"	4 4/4"	5"	5 13/16"
JT. OPENING @ PIER 17	1 11/16"	2 1/2"	3 3/8"	4 4/4"	5 1/8"	6"

① JOINT OPENING WILL INCREASE OR DECREASE APPROX. 3/8" FOR EACH 10° DROP OR RISE IN TEMPERATURE AT PIERS 7 & 20.  
② JOINT OPENING WILL INCREASE OR DECREASE APPROX. 7/16" FOR EACH 10° DROP OR RISE IN TEMPERATURE AT PIER 17.



ROADWAY PROFILE

EXPANSION GUARD NOTES:

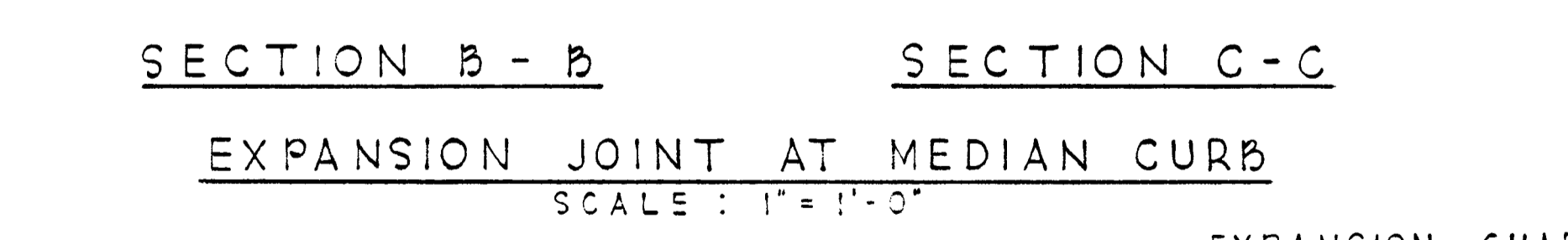
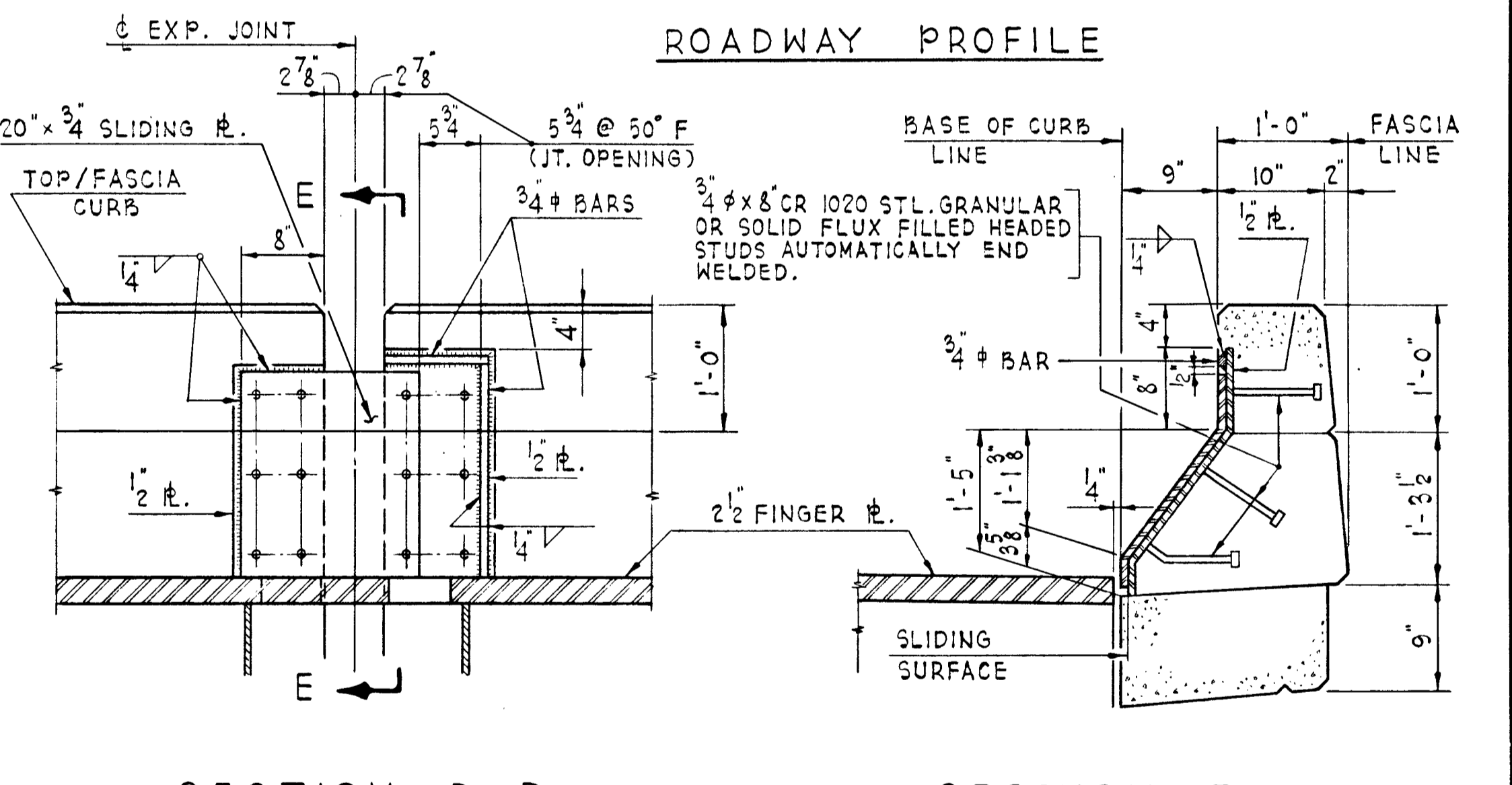
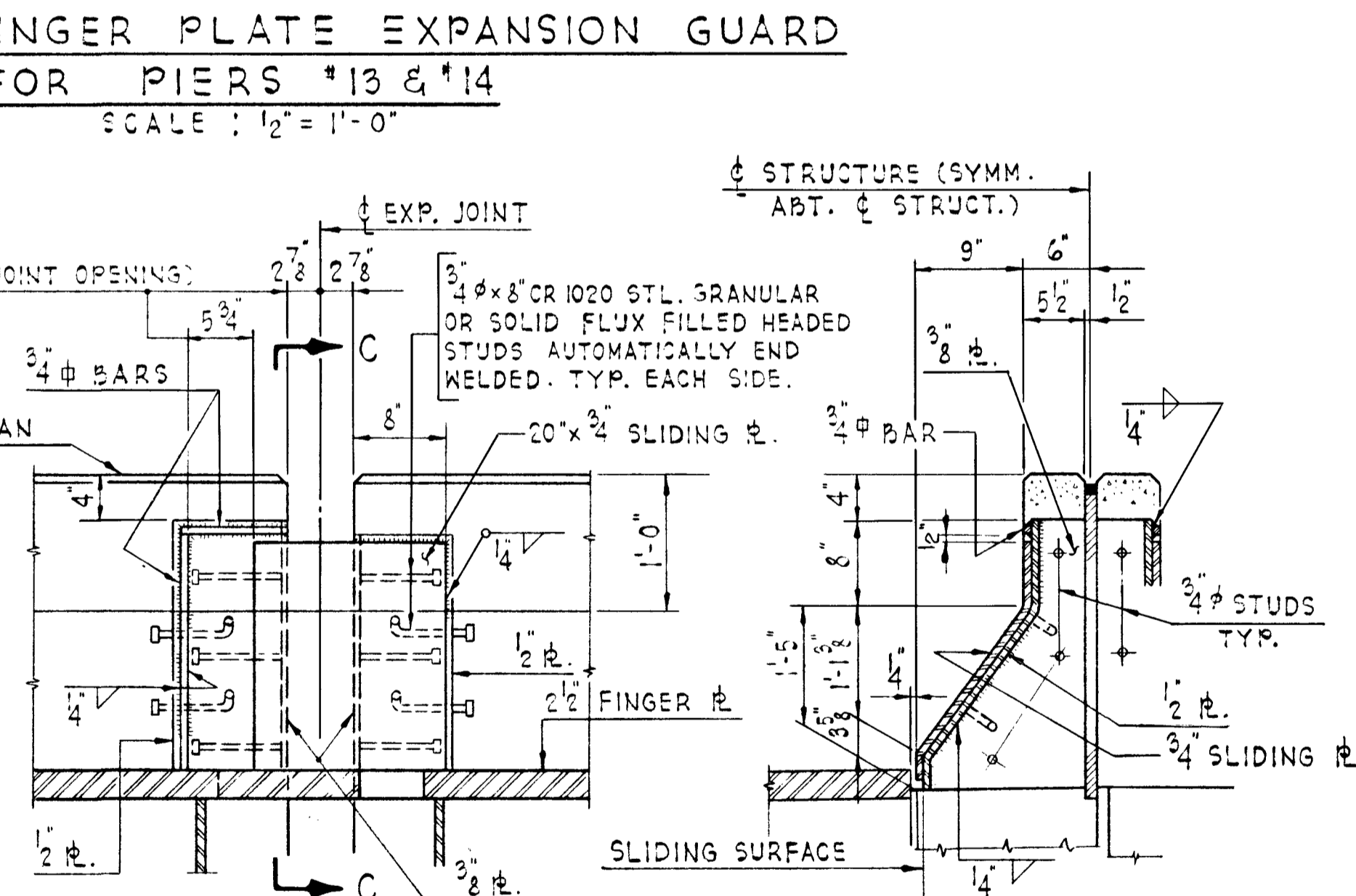
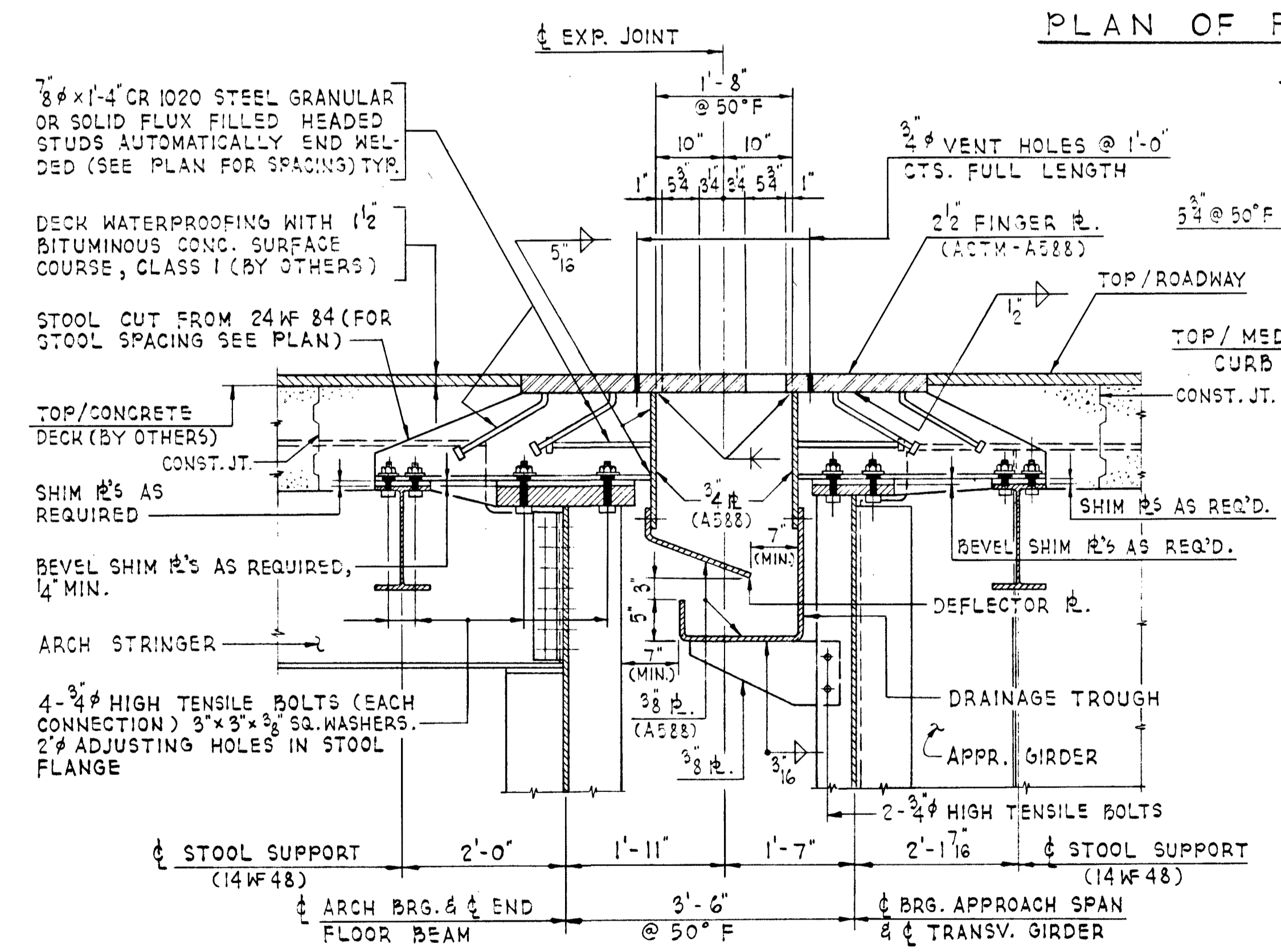
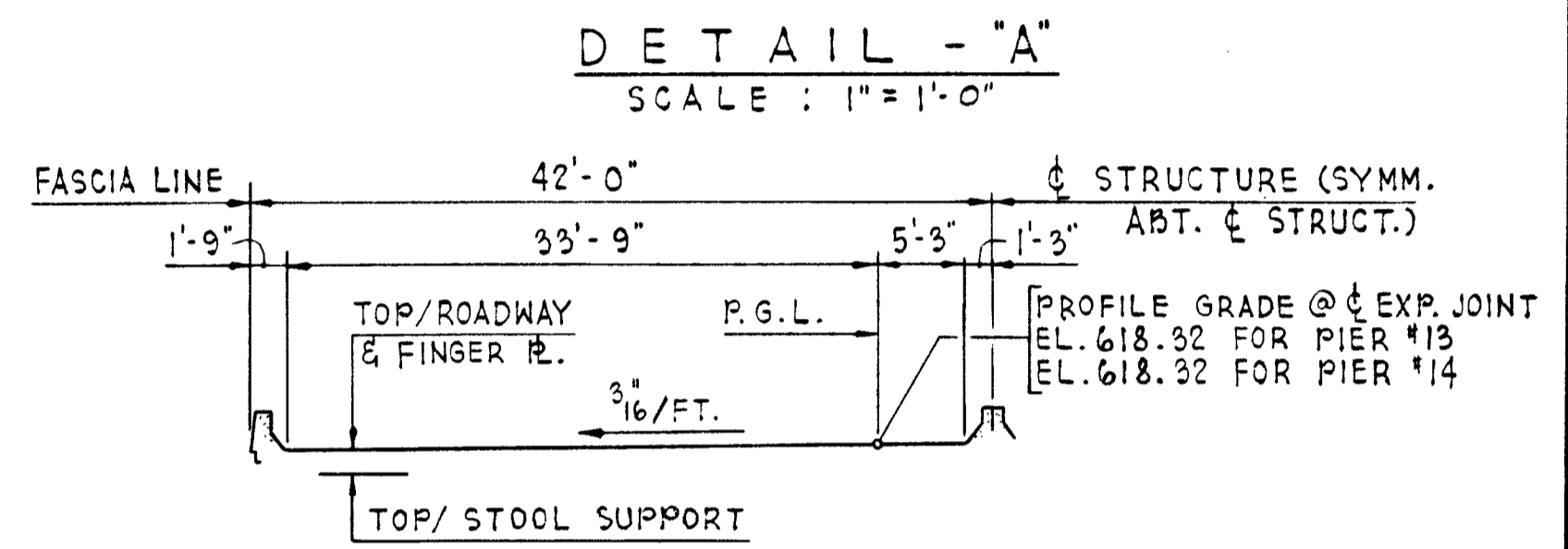
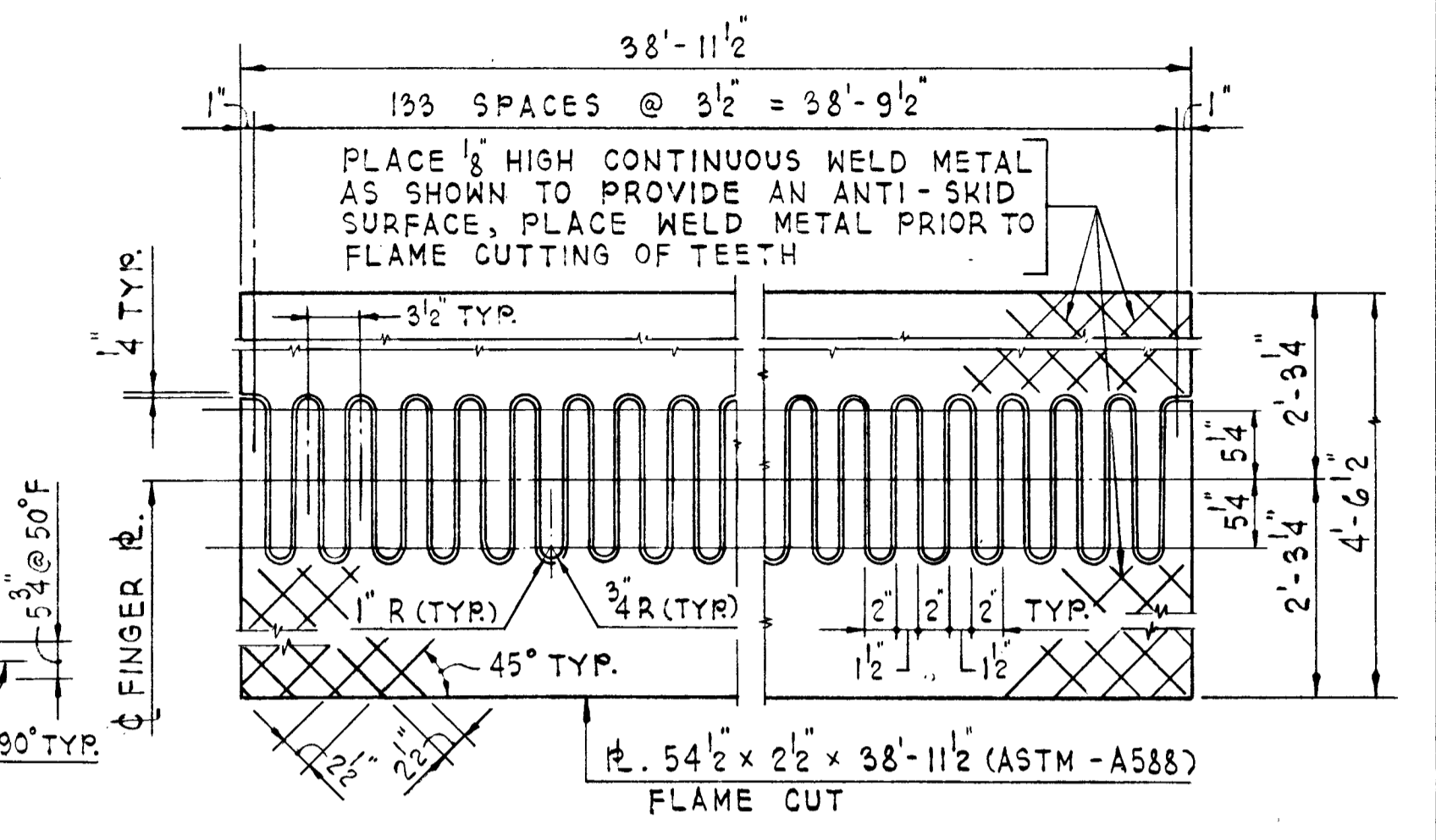
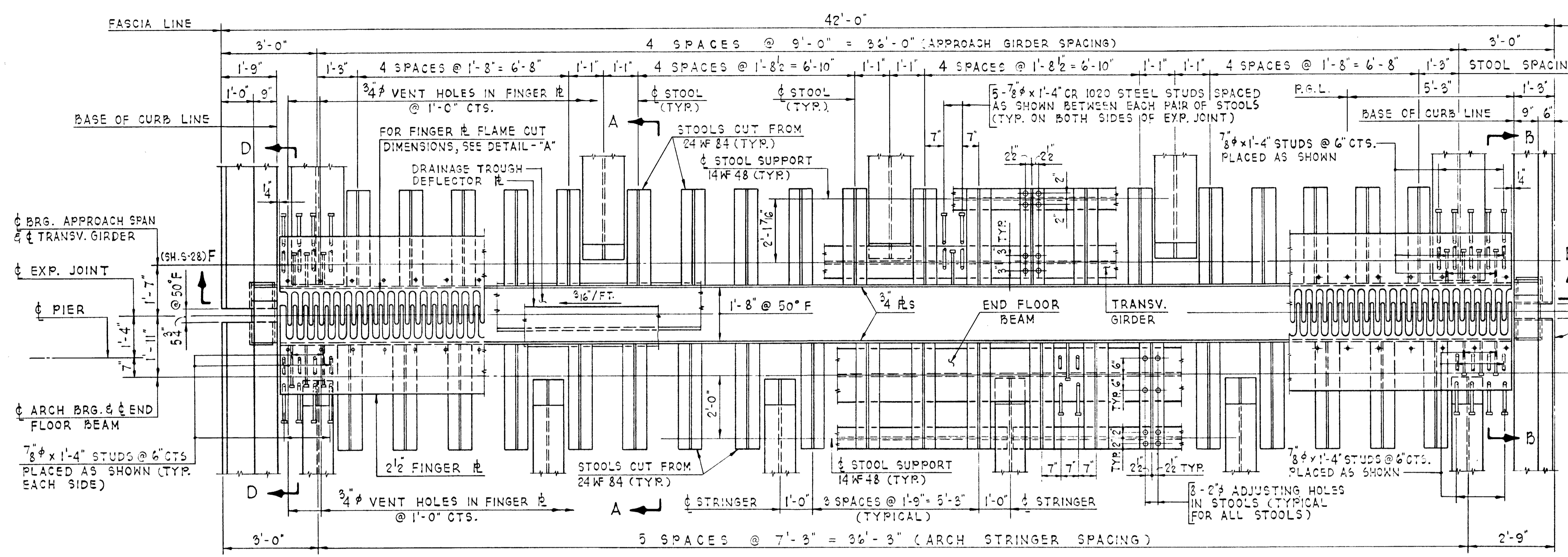
SEE SECTION 503.08(0) OF THE STANDARD SPECIFICATIONS FOR EXPANSION GUARD JOINT OPENINGS.  
FOR STRUCTURAL STEEL NOTES SEE SHEET 8.  
ALL EXPANSION GUARD ASSEMBLIES SHALL BE FABRICATED AND ERECTED TO CONFORM TO THE ROADWAY CROWN AND SLOPE OF GRADE AT THE GUARD. THEY SHALL BE ASSEMBLED IN THE SHOP FOR INSPECTION.  
ALL PARTS OF GUARD ASSEMBLY INCLUDING STUDS SHALL BE INCLUDED IN STRUCTURAL STEEL FOR PAYMENT.  
P.G.L. DENOTES PROFILE GRADE LINE.  
ALL STRUCTURAL STEEL SHALL BE ASTM - A36.

DE LEUW, CATHY & COMPANY ENGINEERS  
DESIGNED BY \_\_\_\_\_  
DRAWN BY F. BOBINAS  
CHECKED W.J. ZAPFEL  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

EXPANSION GUARD  
PIERS 7, 17 AND 20  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	27
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



TEMPERATURE °F	110°	90°	70°	50°	30°	10°
JT. OPENING @ PIER #13	1 1/8"	3 1/16"	4 9/16"	5 3/4"	6 1/16"	8 3/16"
JT. OPENING @ PIER #14	3 3/8"	4 1/2"	5 1/8"	5 3/4"	6 3/8"	7"

**EXPANSION GUARD NOTES:**  
 ALL STRUCTURAL STEEL SHALL BE ASTM - A36, EXCEPT AS NOTED.  
 SEE SECTION 503.08(C) OF THE STANDARD SPECIFICATIONS FOR EXPANSION GUARD JOINT OPENINGS.  
 FOR STRUCTURAL STEEL NOTES SEE SHEET 8.  
 ALL EXPANSION GUARD ASSEMBLIES SHALL BE FABRICATED AND ERECTED TO CONFORM TO THE ROADWAY CROWN AND SLOPE OF GRADE AT THE GUARD. THEY SHALL BE ASSEMBLED IN THE SHOP FOR INSPECTION.  
 ALL PARTS OF GUARD ASSEMBLY INCLUDING STUDS SHALL BE INCLUDED IN STRUCTURAL STEEL FOR PAYMENT.  
 P.G.L. DENOTES PROFILE GRADE LINE.

**EXPANSION GUARD AND DRAINAGE DETAILS PIERS 13 & 14**

F.A.I. ROUTE 280 SECTION 81-IF&E  
 I-280 OVER ROCK ISLAND RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

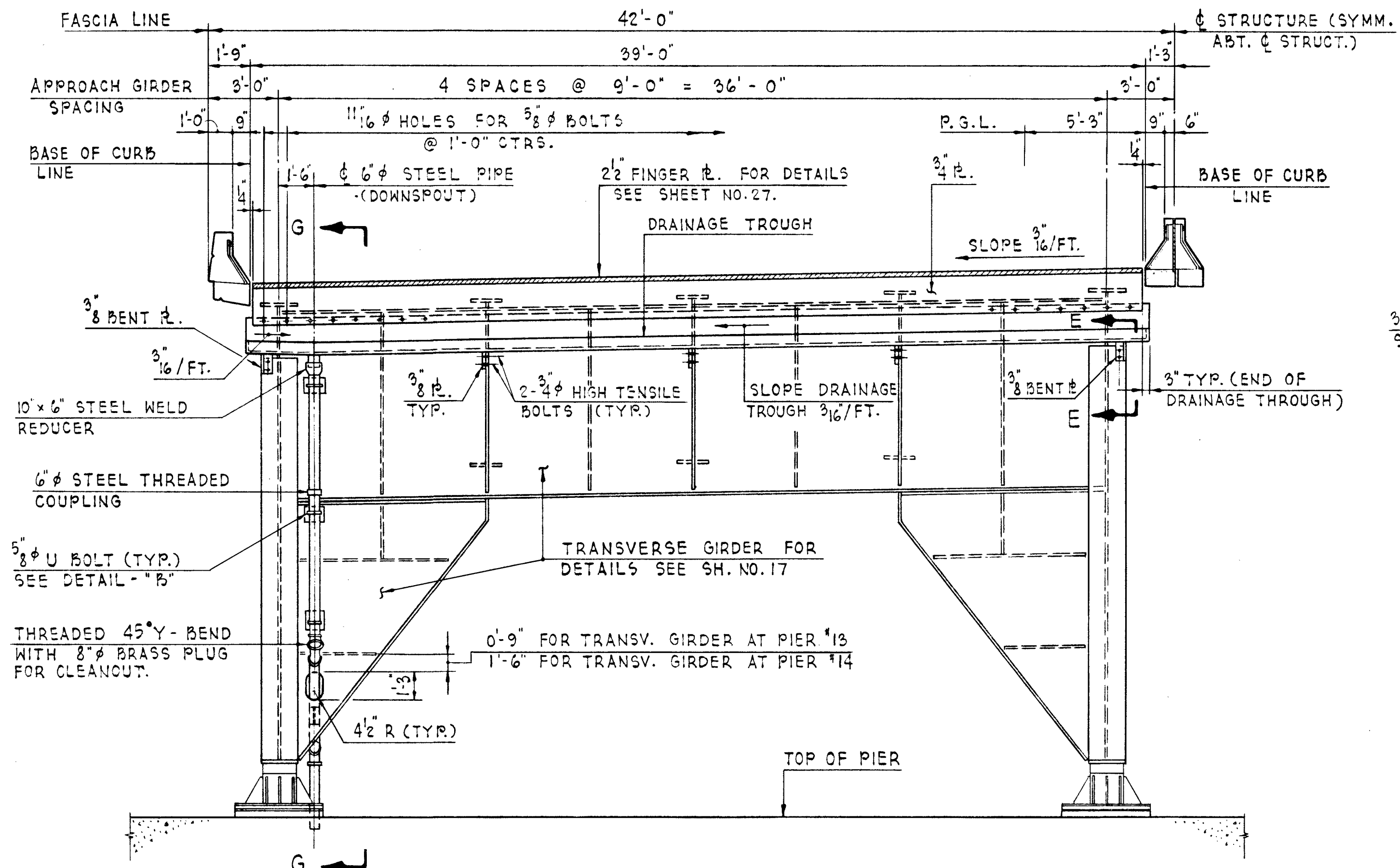
DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY F. BOBINAS  
 CHECKED W.J. ZAPFEL  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

**NOTE:** FINAL ADJUSTMENT OF EXPANSION GUARD SHALL BE MADE AFTER DECK CONCRETE IS POURED UP TO CONSTRUCTION JOINTS SHOWN.

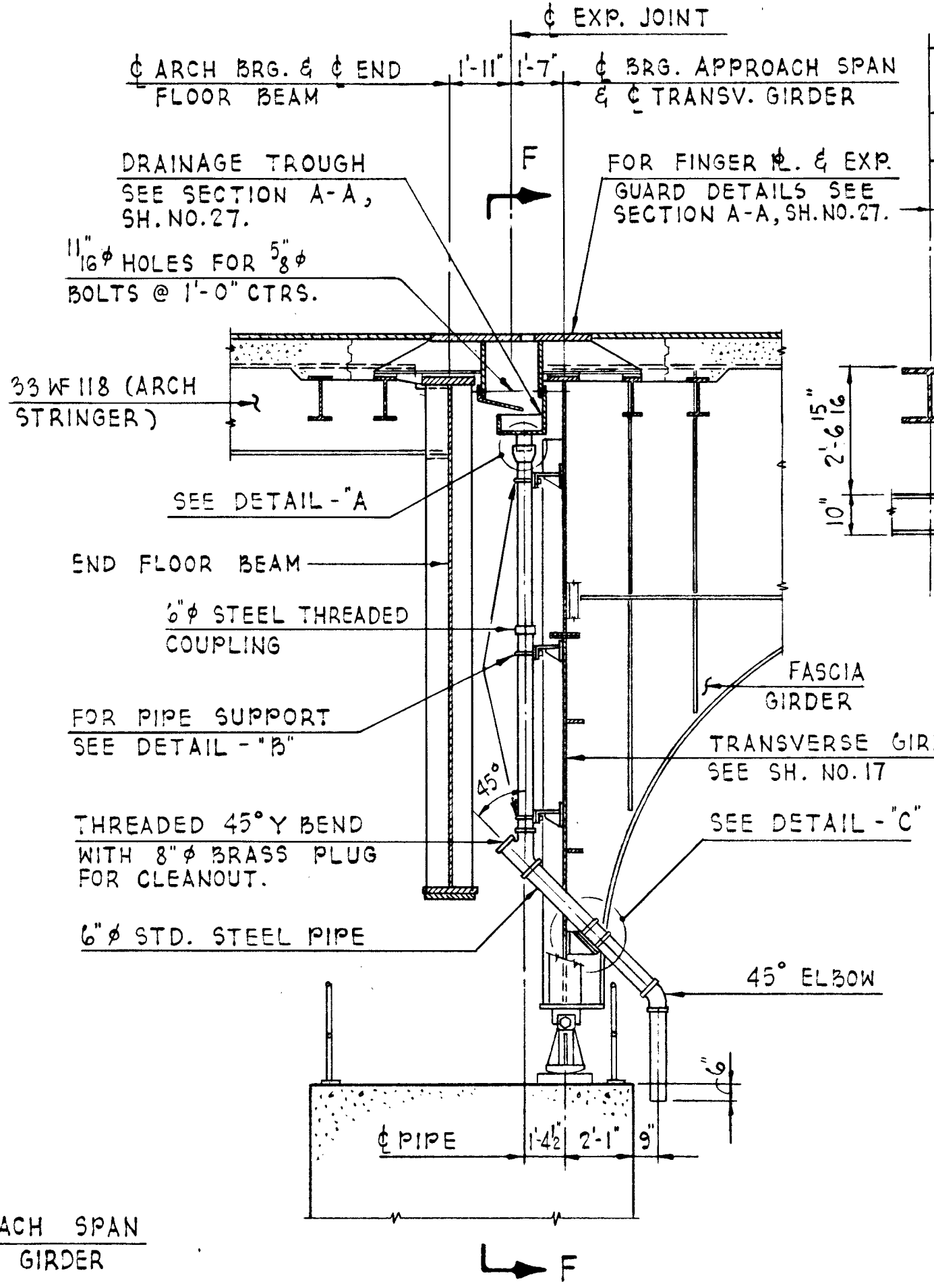
JOINT OPENING WILL INCREASE OR DECREASE APPROX. 5/16" FOR EACH 10° DROP OR RISE IN TEMPERATURE AT PIER #13.  
 JOINT OPENING WILL INCREASE OR DECREASE APPROX. 3/8" FOR EACH 10° DROP OR RISE IN TEMPERATURE AT PIER #14.



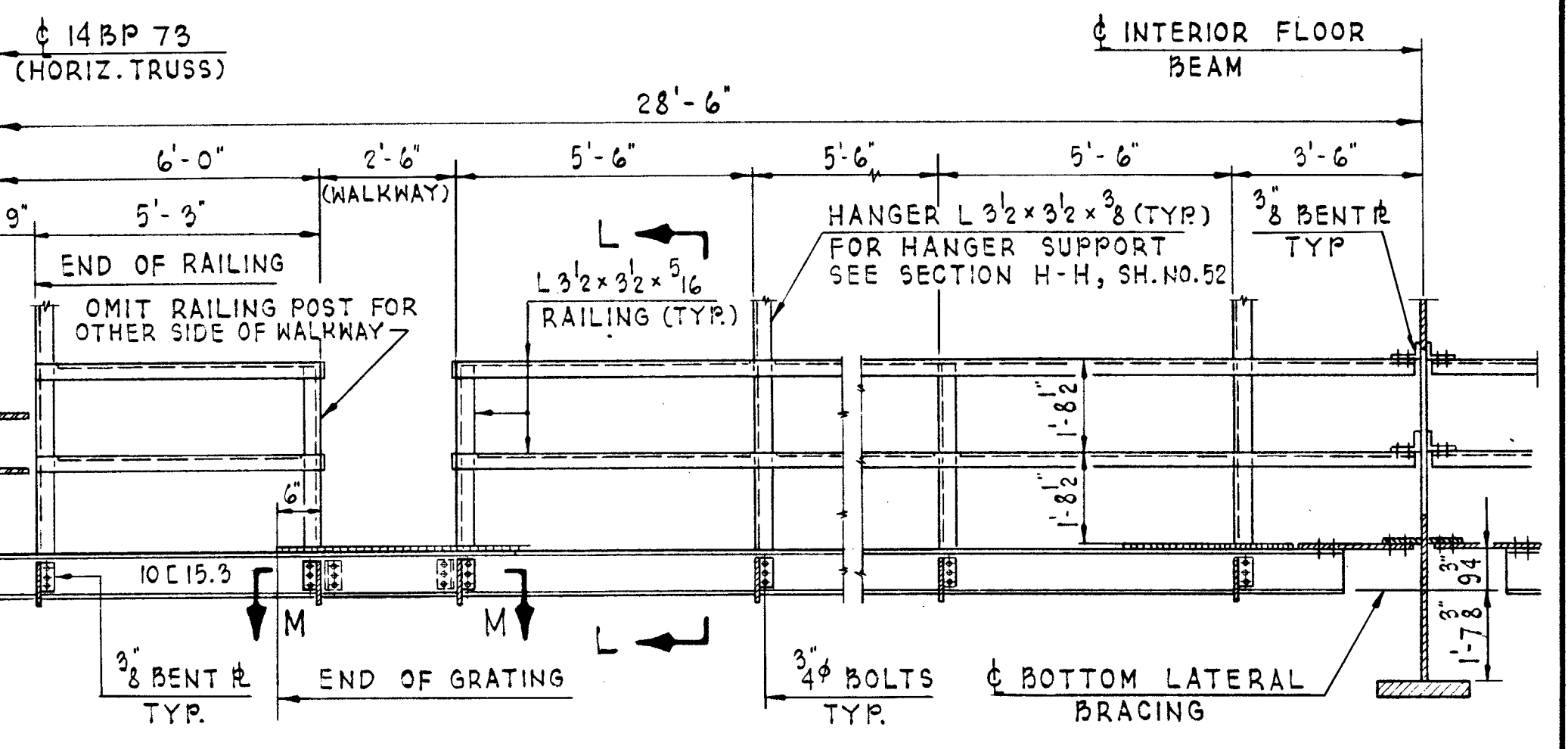
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	28
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



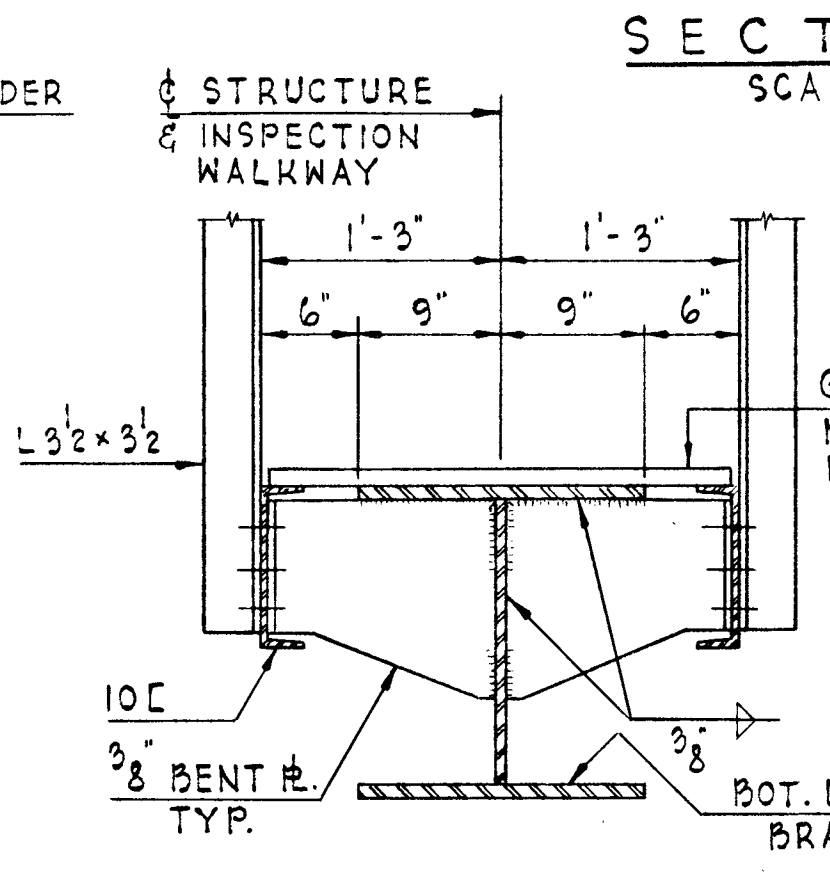
SECTION F - F / SH. 5-27  
SCALE: 1/4" = 1'-0"



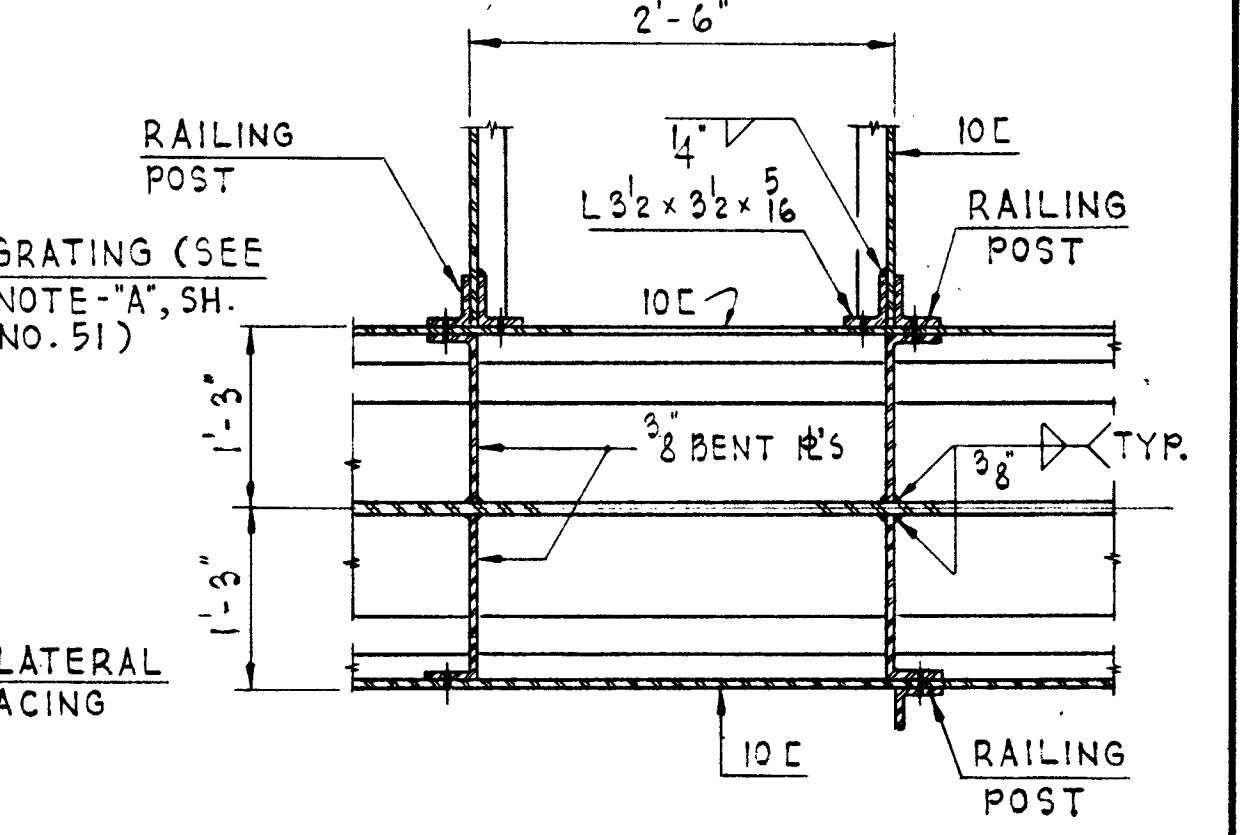
SECTION G - G  
SCALE: 1/4" = 1'-0"



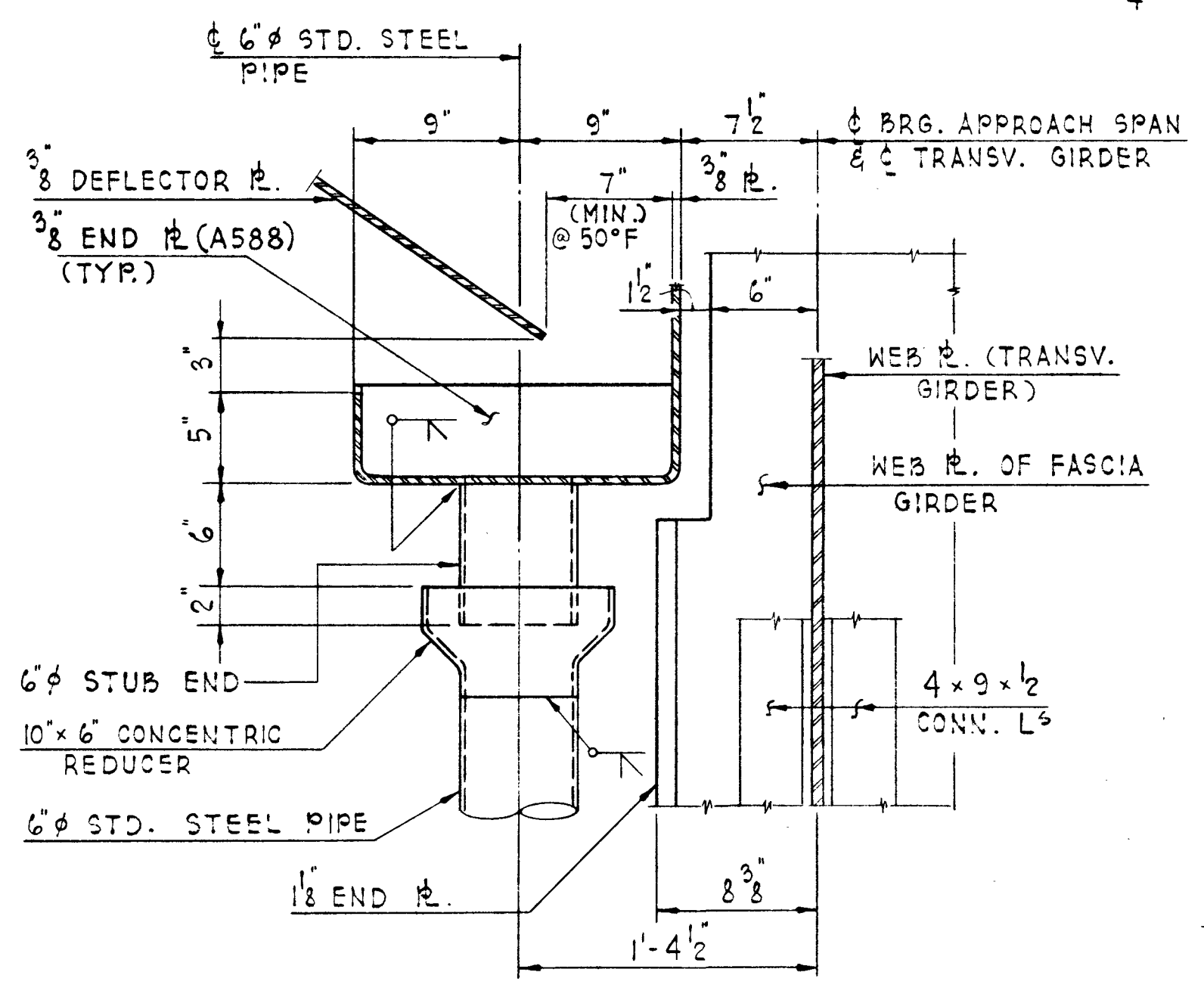
SECTION K - K / (SH. NO. 51)  
SCALE: 3/8" = 1'-0"



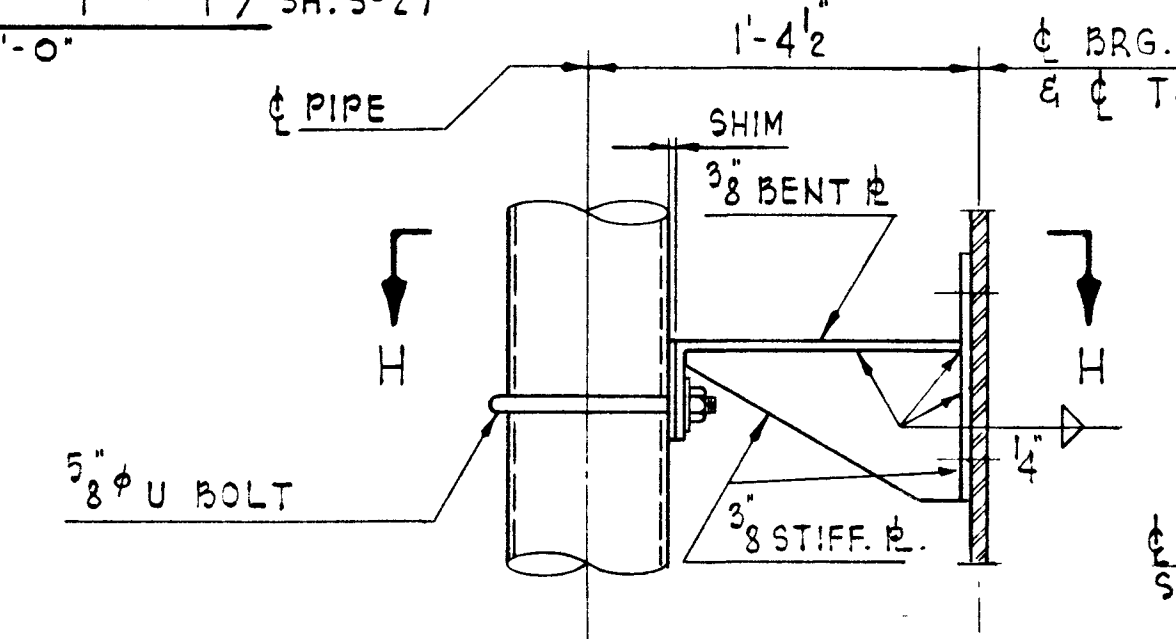
SECTION L - L  
SCALE: 1" = 1'-0"



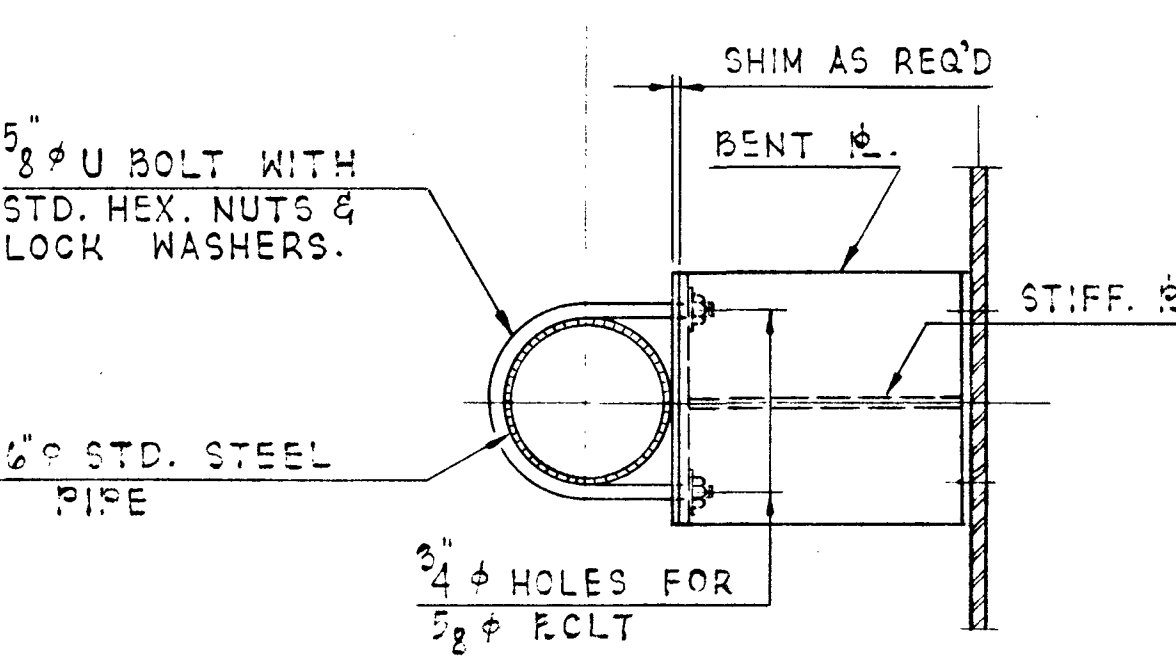
SECTION M - M  
SCALE: 3/4" = 1'-0"



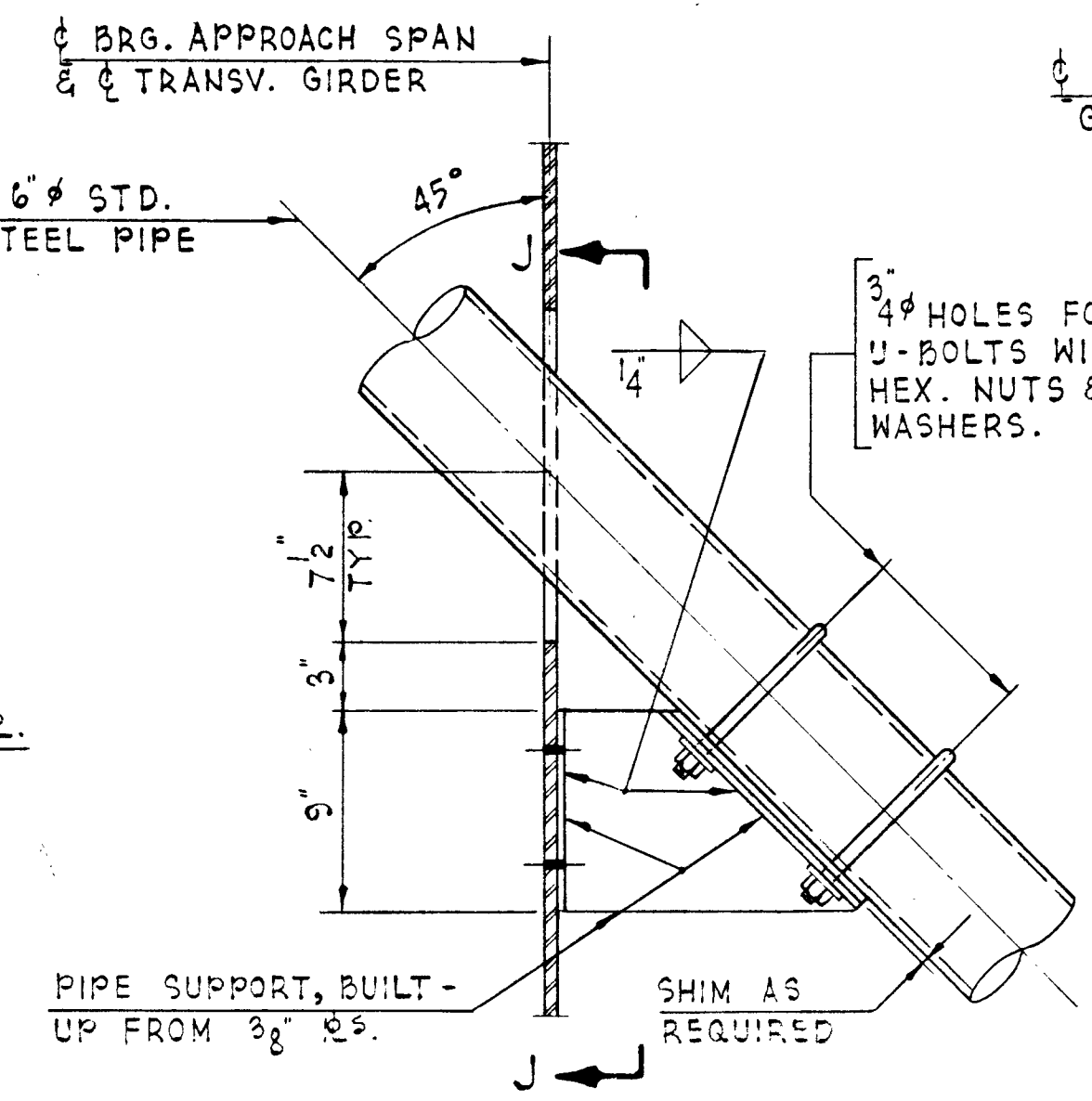
DETAIL - A  
SCALE: 1 1/2" = 1'-0"



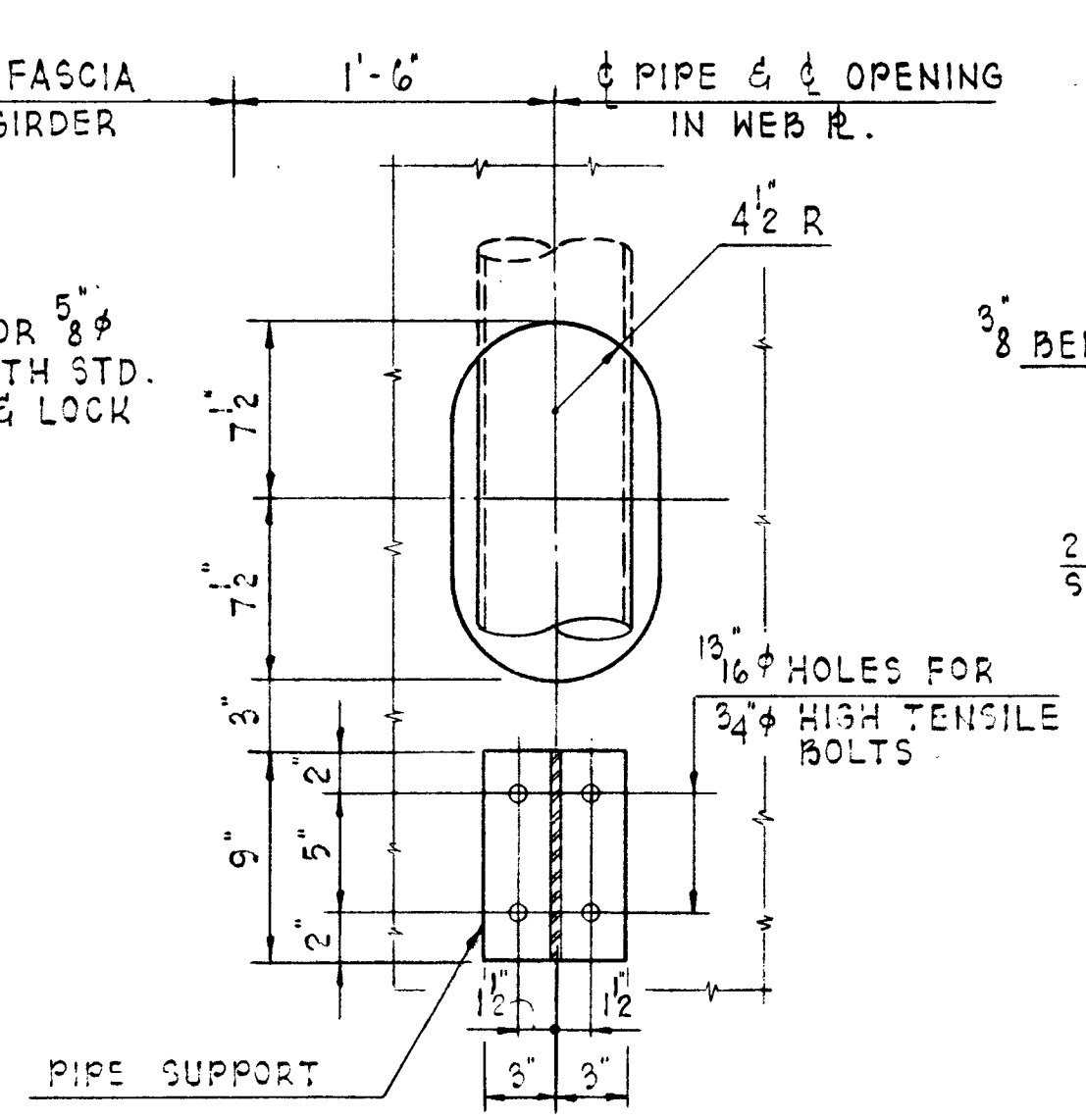
DETAIL - B  
SCALE: 1 1/2" = 1'-0"



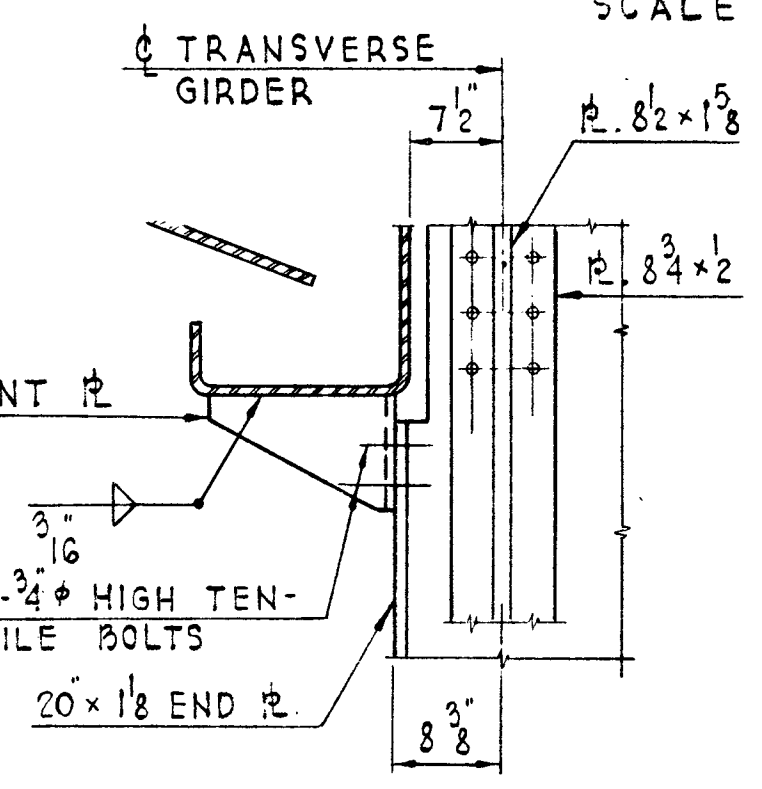
SECTION H - H  
SCALE: 1 1/2" = 1'-0"



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



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

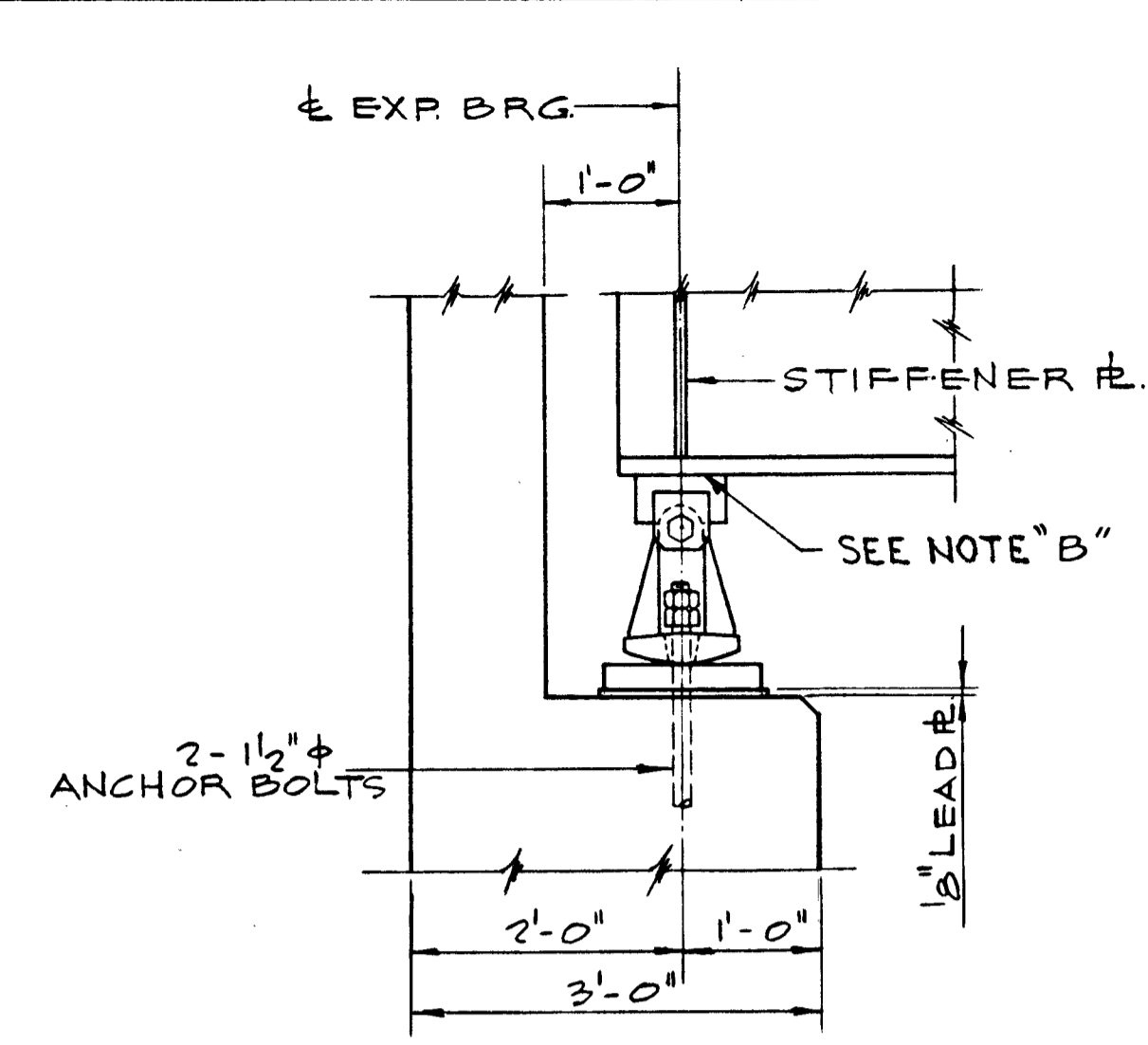


SECTION E - E  
SCALE: 3/4" = 1'-0"

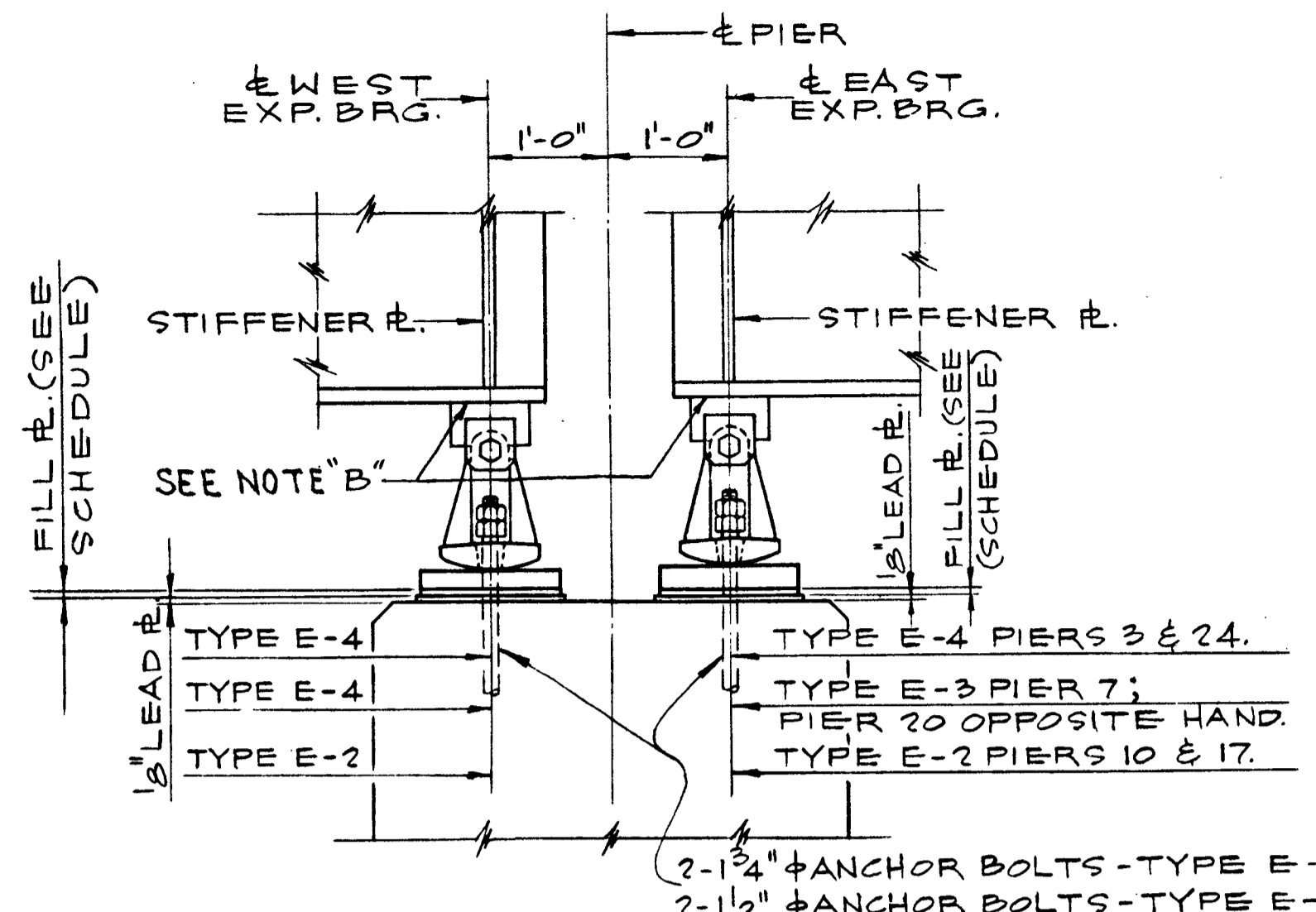
DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY F. BOBINAS  
 CHECKED W.J. ZAPFEL  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

EXPANSION GUARD AND DRAINAGE DETAILS  
 PIERS 13 & 14  
 F.A.I. ROUTE 280 SECTION 81-IF&E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

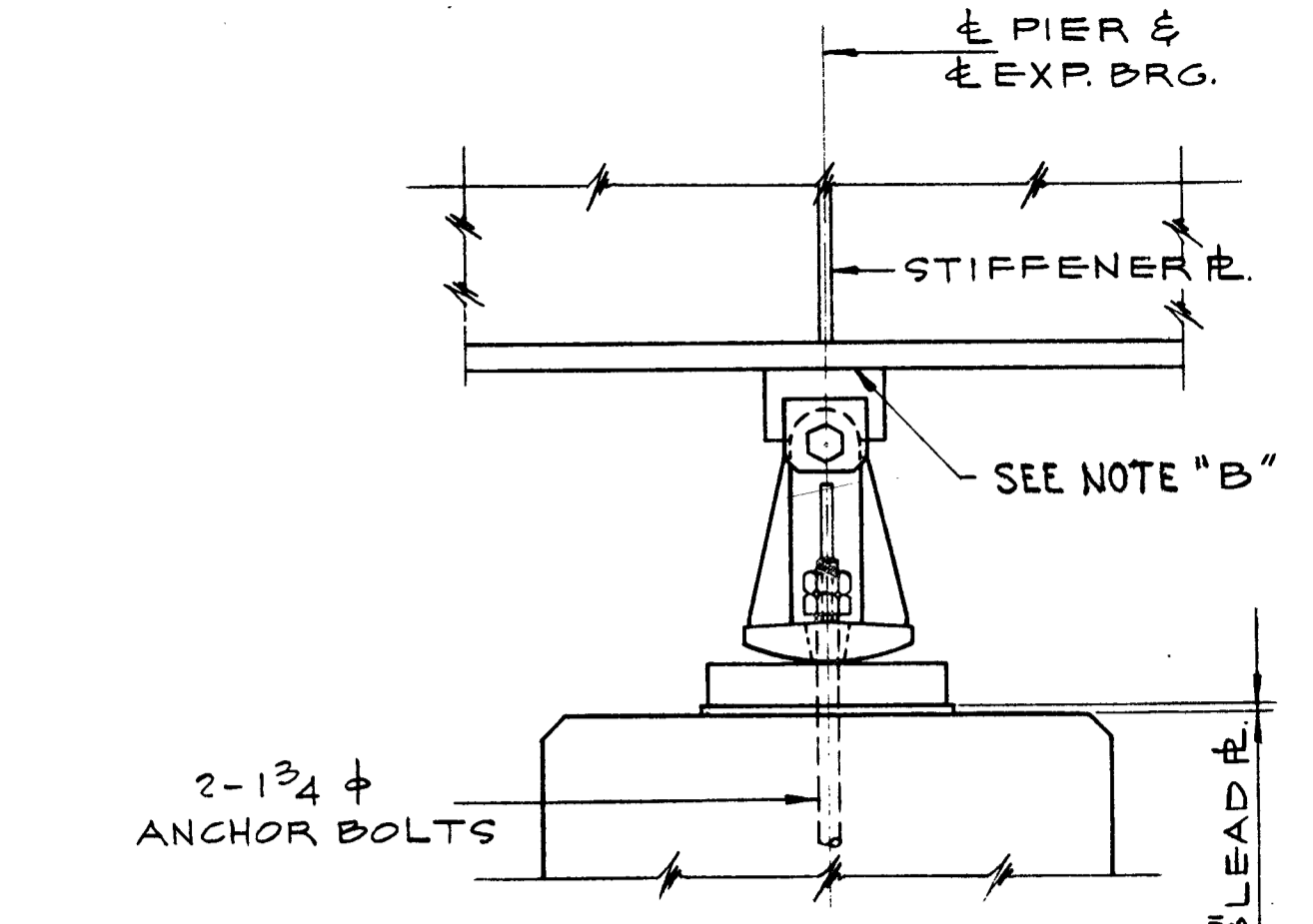
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF&E	SCOTT COUNTY, IOWA	52	29
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



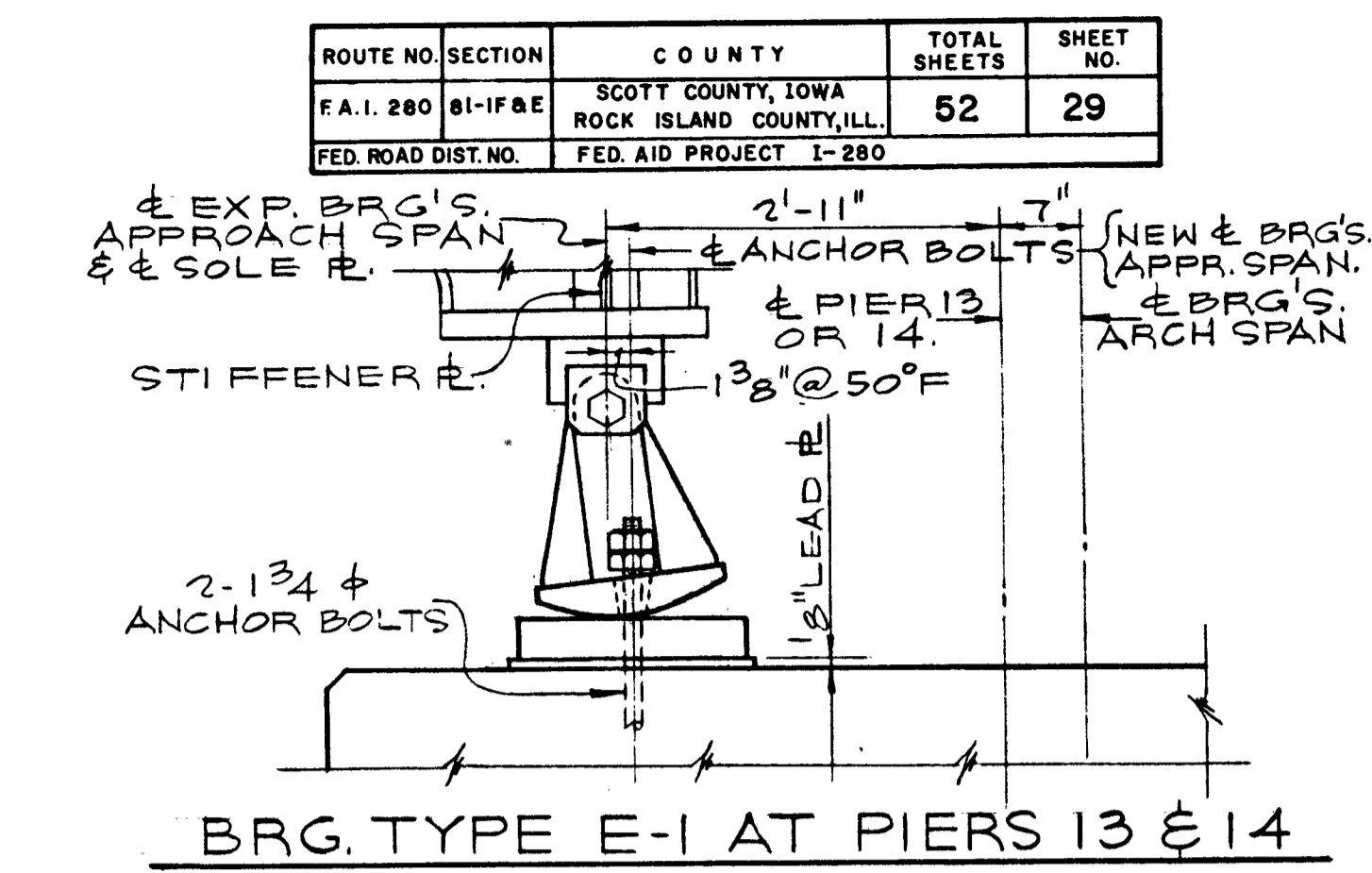
BRG. TYPE E-4 AT WEST & EAST ABUT.  
SCALE: 3/4" = 1'-0"



BRG'S. AT PIERS 3, 7, 10, 17, 20 & 24  
SCALE: 3/4" = 1'-0"



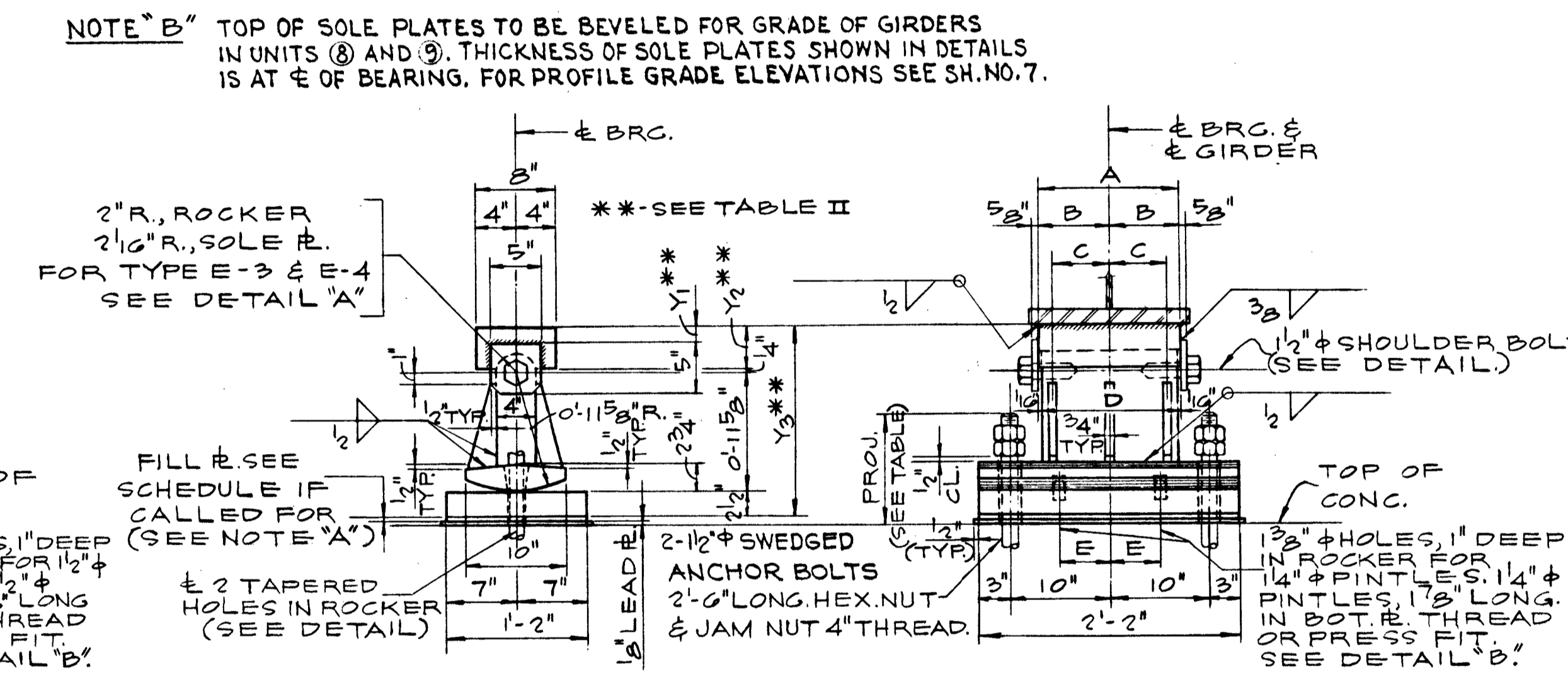
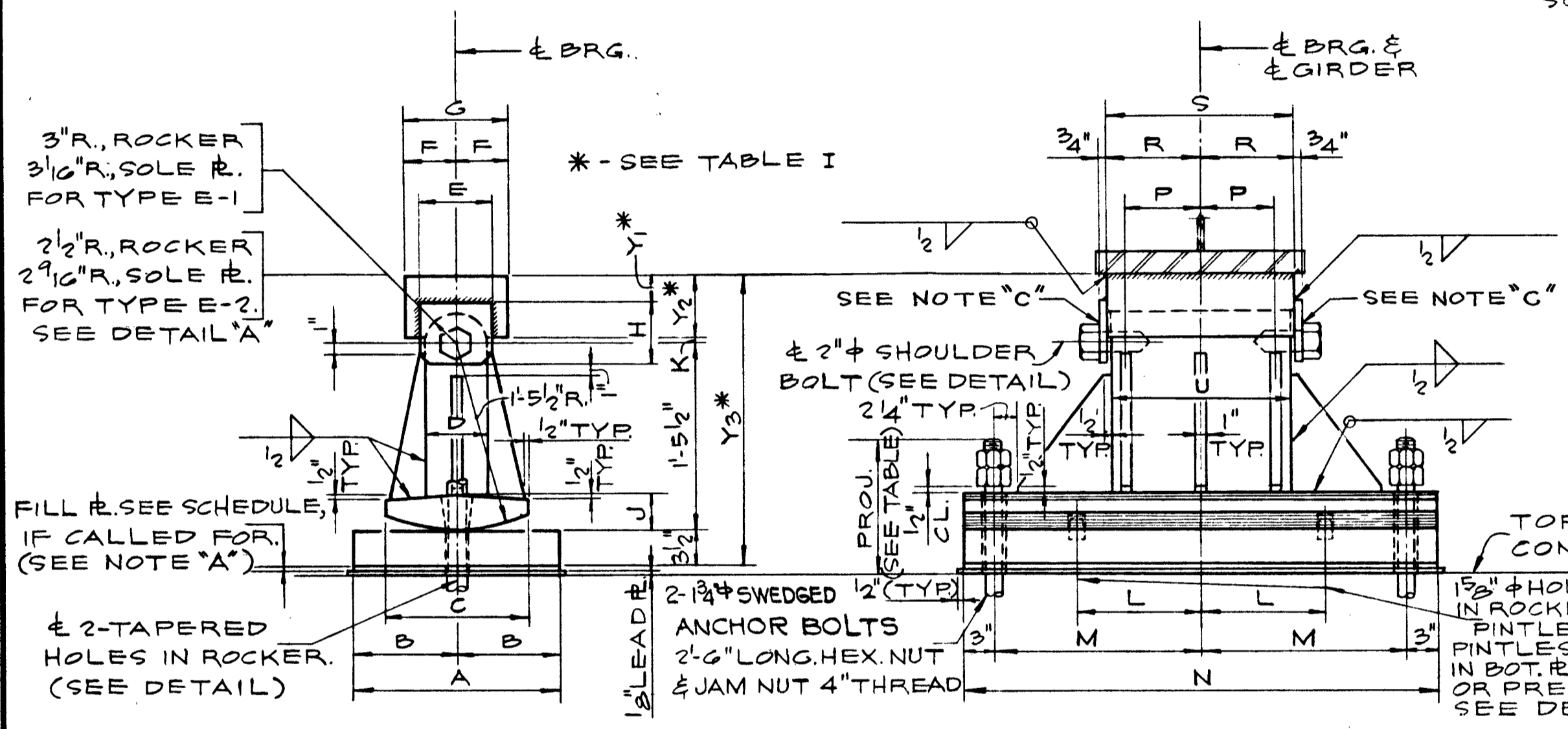
BRG. TYPE E-1 AT PIERS 8, 12, 16 & 19  
BRG. TYPE E-2 AT PIERS 1, 4, 6, 21, 23, 25 & 27  
SCALE: 3/4" = 1'-0"



BRG. TYPE E-1 AT PIERS 13 & 14  
(PIER 13 SHOWN)  
(PIER 14 OPPOSITE HAND)  
SCALE: 3/4" = 1'-0"

TEMPERATURE F°	110°	90°	70°	50°	30°	10°
WEST ABUTMENT	+5.0	+5.0	+5.0	0	-5.0	-5.0
PIER 1, 4, 21, & 25	+7.0	+5.0	+5.0	0	-1.0	-5.0
PIER 3 WEST BRG'S.	-7.0	-5.0	-5.0	0	+1.0	+5.0
PIER 3 EAST BRG'S.	+5.0	+5.0	+5.0	0	-5.0	-5.0
PIER 8	+11.0	+7.0	+4.0	0	-1.0	-7.0
PIER 8, 23 & 27	-7.0	-5.0	-5.0	0	+1.0	+5.0
PIER 7 WEST BRG'S.	-15.0	-5.0	-5.0	0	+5.0	+5.0
PIER 7 EAST BRG'S.	+3.0	+5.0	+7.0	0	-7.0	-15.0
PIER 19	-11.0	-7.0	-4.0	0	+1.0	+7.0
PIER 10 WEST BRG'S.	-15.0	-5.0	-5.0	0	+5.0	+5.0
PIER 10 EAST BRG'S.	+5.0	+5.0	+5.0	0	-5.0	-5.0
PIER 12 & 16	-15.0	-5.0	-5.0	0	+5.0	+5.0
PIER 13 - WEST BRG'S.	-15.0	-5.0	-5.0	0	+5.0	+5.0
PIER 14 - EAST BRG'S.	+15.0	+5.0	+5.0	0	-5.0	-5.0
PIER 17 WEST BRG'S.	-15.0	-5.0	-5.0	0	+5.0	+5.0
PIER 17 EAST BRG'S.	+15.0	+5.0	+5.0	0	-5.0	-5.0
PIER 20 WEST BRG'S.	-15.0	-5.0	-5.0	0	+5.0	+5.0
PIER 20 EAST BRG'S.	+15.0	+5.0	+5.0	0	-5.0	-5.0
PIER 24 WEST BRG'S.	-15.0	-5.0	-5.0	0	+5.0	+5.0
PIER 24 EAST BRG'S.	+15.0	+5.0	+5.0	0	-5.0	-5.0
EAST ABUTMENT	+5.0	+5.0	+5.0	0	-5.0	-5.0

MINUS SIGN INDICATES ± SOLE PLATE EAST OF ± BEARING. PLUS SIGN INDICATES ± SOLE PLATE WEST OF ± BEARING.



BRG. TYPE	NO. REQ'D	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	U	TOTAL WEIGHT POUNDS ***
E-1	48	1'-8"	10"	1'-2"	6"	7"	5"	10"	6"	3 1/2"	1 1/2"	7 1/2"	1'-8"	3'-0"	7 1/2"	9 1/2"	1'-0"	1'-5 1/2"	2640
E-2	110	1'-4"	8"	1'-0"	5"	6"	4"	8"	5 3/4"	3"	1 1/2"	5 1/2"	1'-2"	2'-0"	5 1/2"	7"	1'-2"	1'-1 1/2"	1630

BRG. TYPE	NO. REQ'D	A	B	C	D	E	TOTAL WEIGHT POUNDS ***
E-3	20	1'-2"	7"	5 3/8"	1'-1 1/2"	5"	880
E-4	80	10"	5"	3 3/8"	9 3/8"	4"	790

ROCKER DETAIL OF EXP. BRG. TYPE E-1 & E-2

ROCKER DETAIL OF EXP. BRG. TYPE E-3 & E-4

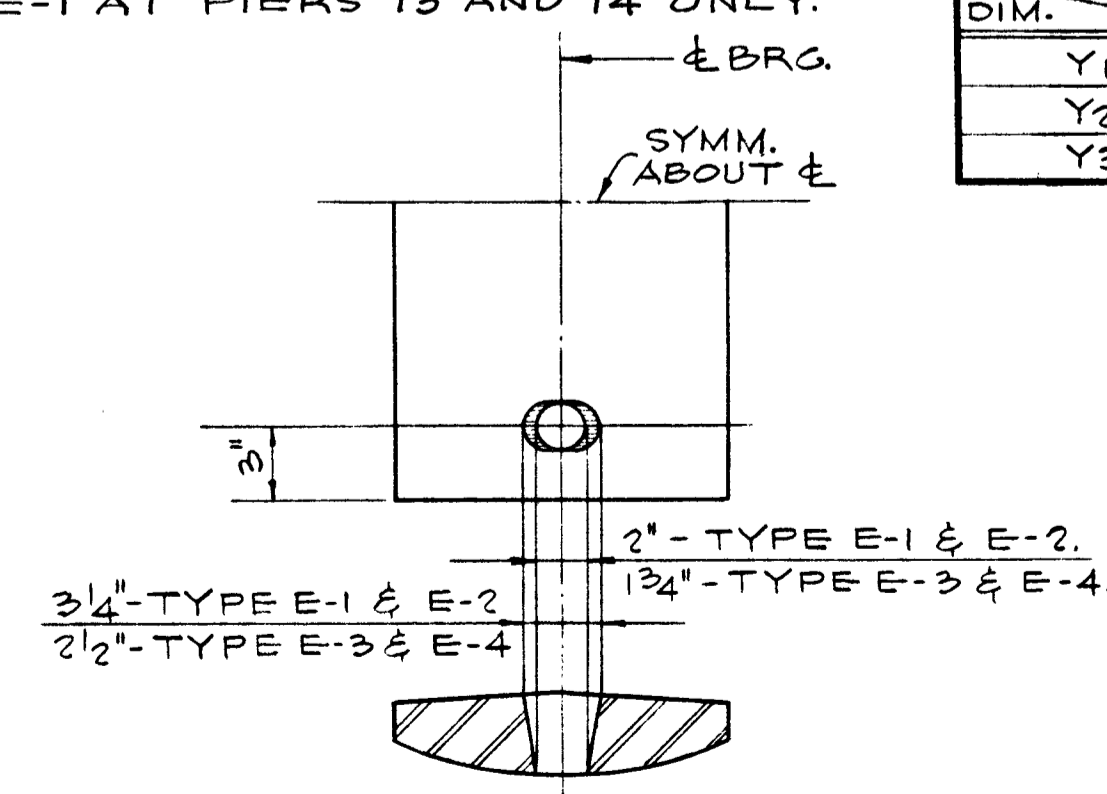
\*\*\* - TOTAL WEIGHT OF ONE ASSEMBLY INCLUDES TOP R., ROCKER, ANCHOR BOLTS, BOTTOM R. AND LEAD R. IT DOES NOT INCLUDE THE WEIGHT OF ANY FILL R.

NOTE "A" SEE SPECIAL PROVISIONS REGARDING THE POSSIBLE NEED FOR ADDING ADDITIONAL FILL PLATES UNDER THE MASONRY PLATES OF THE BEARINGS.  
NOTE "C" PROVIDE 1/8" CLEARANCE BTWN. SHOULDER BOLT & 3/4" KEEPER R. FOR BEARING TYPE E-1 AT PIERS 13 AND 14 ONLY.

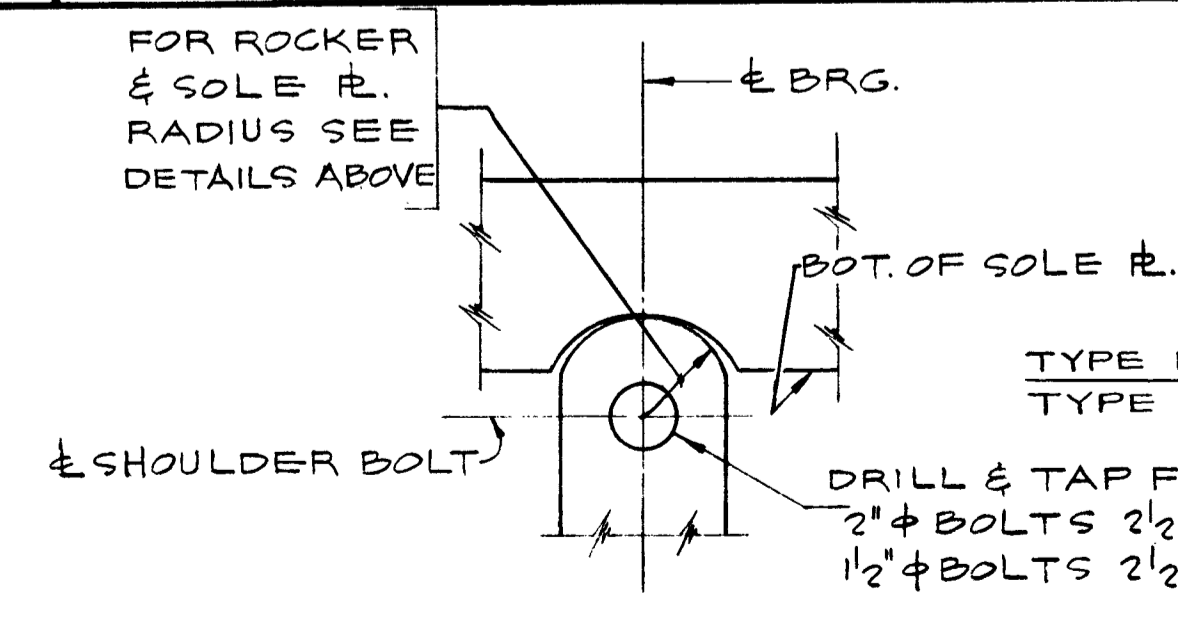
TABLE I													
DIM.	GIRD.	BRG. TYPE E-1 AT UNITS 3, 4, 6 & 7				BRG. TYPE E-2 AT UNITS 1, 2, 8 & 9				BRG. TYPE E-2 AT UNITS 3, 4, 6 & 7			
		A, E, F & K	B, C, D, G, H & J	A, E, F & K	B, C, D, G, H & J	A, E, F & K	B, C, D, G, H & J	A, E, F & K	B, C, D, G, H & J				
Y1	2 1/2"	3"	2 5/8"	3"	2 3/4"	3"	2 3/4"	3"	2 3/4"	3"	2 3/4"		
Y2	6"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"		
Y3	2'-3 1/2"	2'-4"	2'-3 5/8"	2'-4"	2'-3 3/4"	2'-4"	2'-3 3/4"	2'-4"	2'-3 3/4"	2'-4"	2'-4"		

ANCHOR BOLT PROJECTION TABLE				
BEARING TYPE	E-1	E-2	E-3	E-4
PROJ. FOR FILL R'S. 0" TO 1/2"	11"	10 1/2"	9"	9"
PROJ. FOR FILL R'S. 1/2" TO 1"	-	-	-	9 1/2"

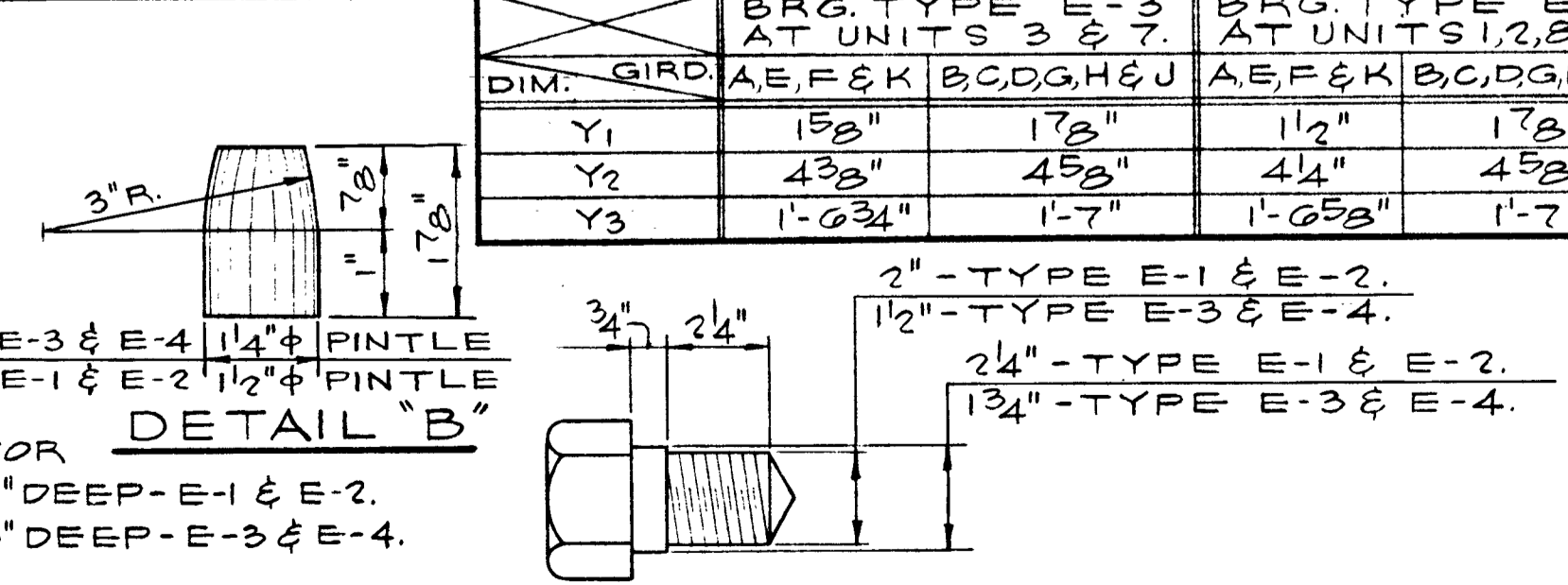
FILL PLATE SCHEDULE			
BEARING TYPE	PIER NO.	GIRDER THICKNESS LINE (SEE NOTE "A")	THICKNESS (SEE NOTE "A")
E-2	10 (WEST)	A THRU K	1 1/8"
E-2	17 (EAST)	A, B, C, H & K D, E, F & G	1 1/8"
E-4	7 (WEST)	A, E, F & K	1 1/8"
E-3	20 (WEST)	A & K B, C, D, G, H & J	1 1/8"
E-4	3 (EAST)	A THRU K	1 1/8"
E-4	24 (WEST)	A THRU K	1 1/8"



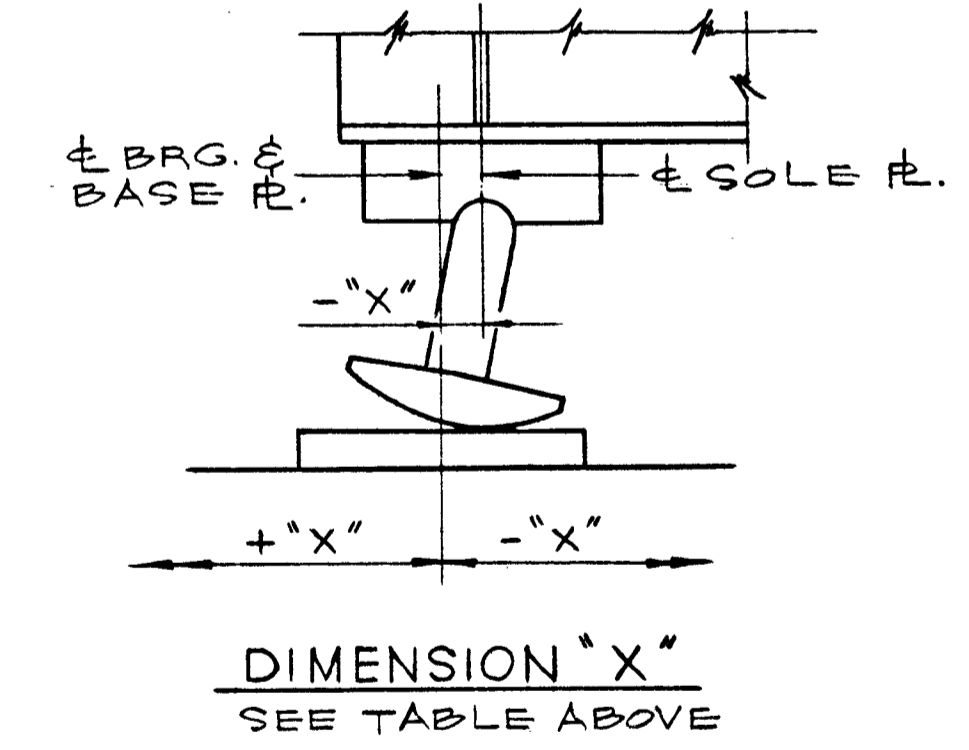
DETAIL OF HOLE IN ROCKERS



DETAIL "A" NOT TO SCALE



SHOULDER BOLT DETAIL SCALE: 3/8" = 1'-0"



DIMENSION "X" SEE TABLE ABOVE

NOTE: ALL STRUCTURAL STEEL SHALL BE ASTM-A36 UNLESS OTHERWISE NOTED. THE STRUCTURAL STEEL ERECTOR SHALL DRILL THE HOLES AND SET THE ANCHOR BOLTS INTO THE SUBSTRUCTURE UNITS.

EXPANSION BEARINGS APPROACH SPANS

F.A.I. ROUTE 280 SECTION 81-IF&E I-280 OVER MISSISSIPPI RIVER

SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.

STA. 11 + 11.38 TO STA. 53 + 04.38

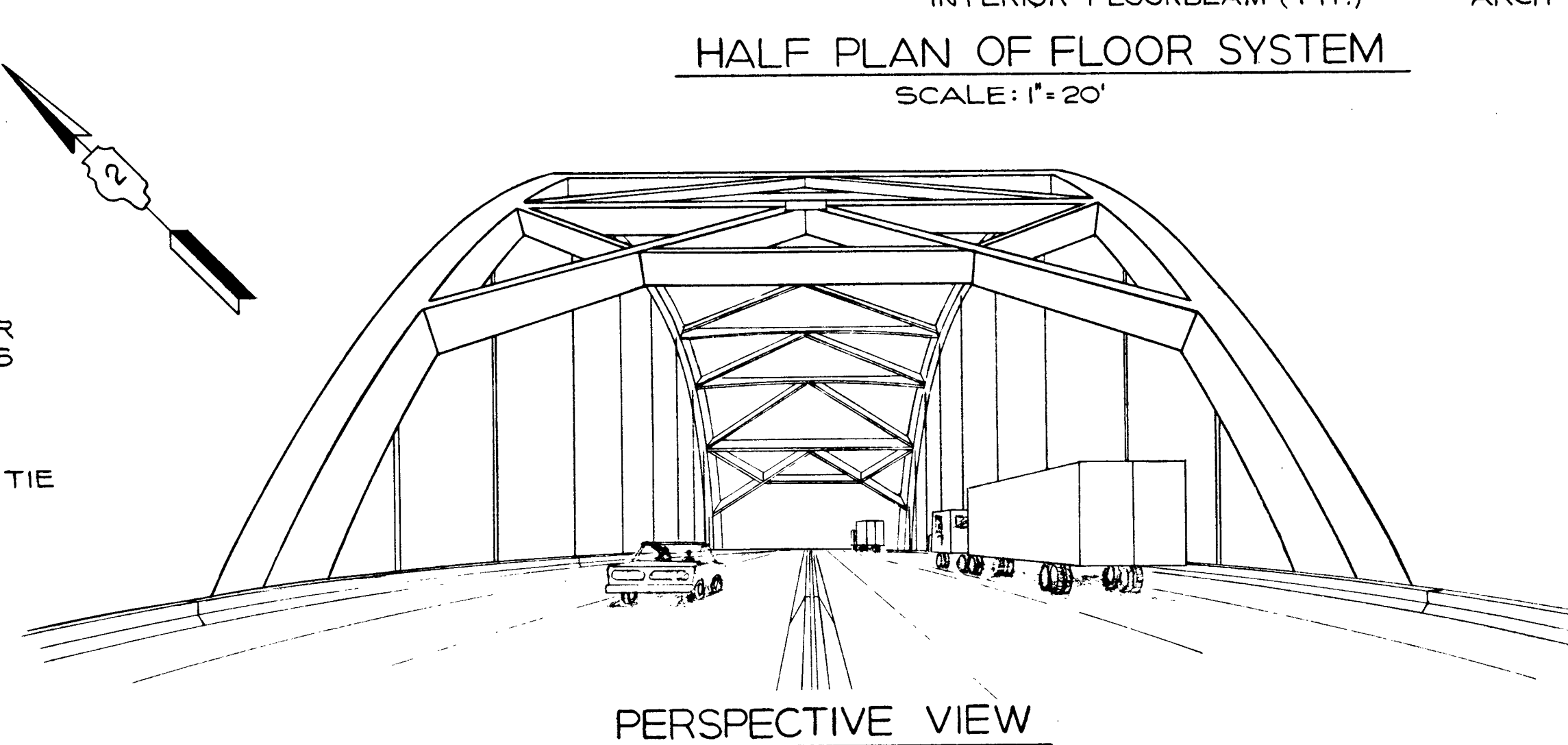
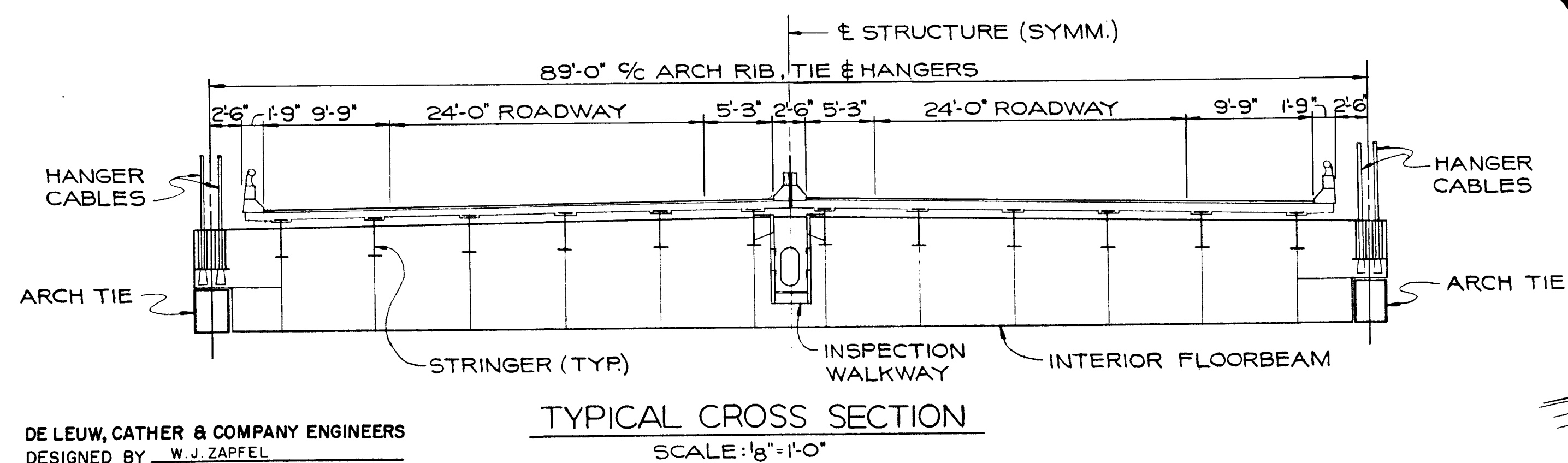
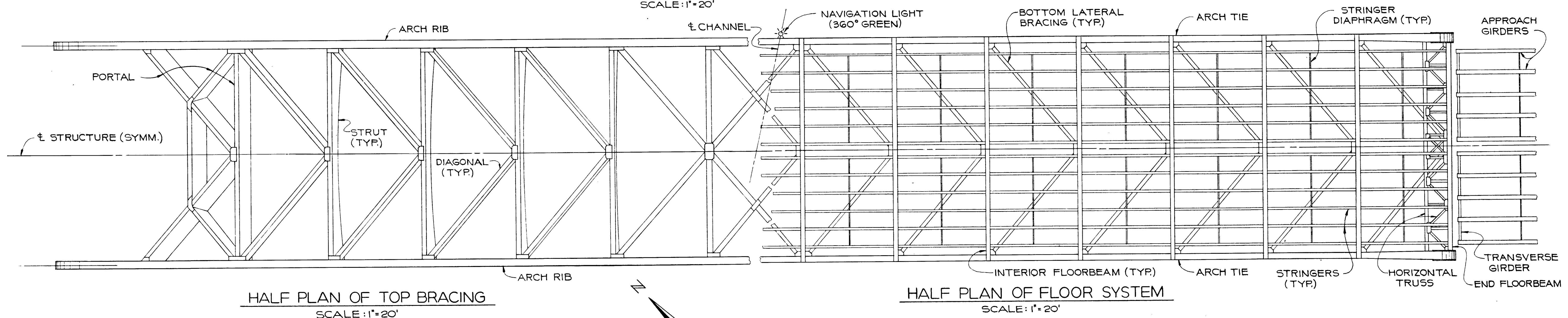
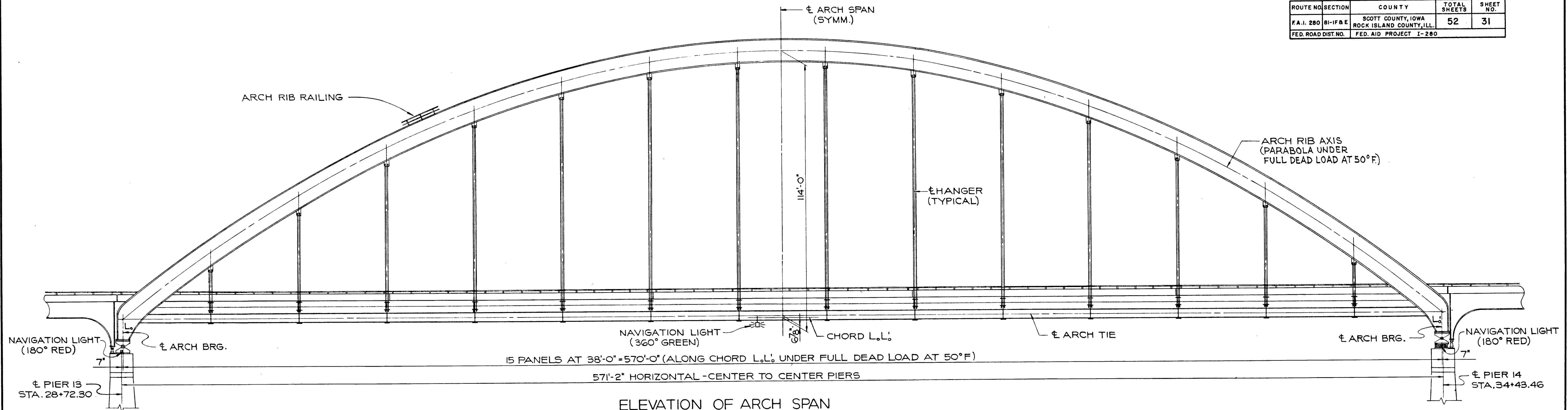
SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, GATHER & COMPANY ENGINEERS  
DESIGNED BY E. LANTSKI  
DRAWN BY G. ALLEMAN  
CHECKED J.Y. HUANG  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN





ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF & E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	31
FED. ROAD DIST. NO.		FED. AID PROJECT 1-280		

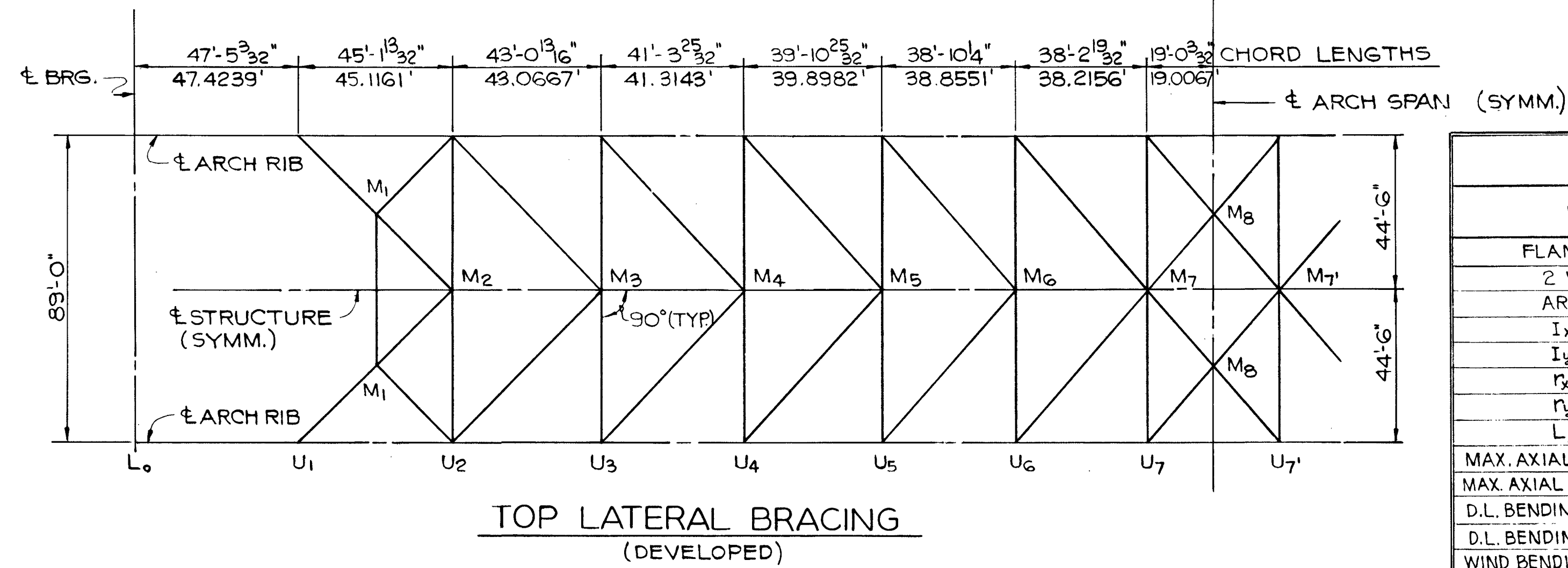


DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W. J. ZAPFEL  
 DRAWN BY P. POPOVIC  
 CHECKED W. J. ZAPFEL  
 IN CHARGE W. J. ZAPFEL  
 APPROVED W. G. HORN

GENERAL LAYOUT OF ARCH SPAN  
 UNIT 5  
 F.A.I. ROUTE 280 SECTION 81-IF & E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF & E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	32
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		



MEMBERS	DIAGONALS	STRUTS	PORTAL STRUT & DIAGONALS
FLANGE R'S T.&B.	24"x12"	24"x12"	24"x12"
2 WEB R'S	52 1/2"x12"	52 1/2"x12" (MIN.)	104 1/4"x12"
AREA IN <sup>2</sup>	76.5	76.5 (MIN.)	128.25
I <sub>x</sub> IN <sup>4</sup>	28,920	28,920 (MIN.)	160,250
I <sub>y</sub> IN <sup>4</sup>	8,870	8,870 (MIN.)	16,480
r <sub>x</sub> IN.	19.45	19.45	35.30
r <sub>y</sub> IN.	10.75	10.75	11.33
L/r MAX.	67	53	32
MAX. AXIAL FORCE (75%/a WIND)-KIPS	111	93	522
MAX. AXIAL FORCE (2 1/2% RIB THRUST)-KIPS	149	243	490
D.L. BENDING MOMENT x-x (FT.KIPS)	120	598	474
D.L. BENDING MOMENT y-y (FT.KIPS)	—	35	—
WIND BENDING MOMENT (FT.KIPS)	98	49	—
MATERIAL	A36	A36	A36

NOTE: DIFFERENTIAL DEFLECTIONS OF ARCH RIBS DUE TO LIVE LOAD HAS BEEN CONSIDERED IN PROPORTIONING THE TOP LATERAL BRACING.

PANEL POINT IN ARCH RIB	L <sub>0</sub>	U <sub>1</sub>	U <sub>2</sub>	U <sub>3</sub>	U <sub>4</sub>	U <sub>5</sub>	U <sub>6</sub>	U <sub>7</sub>	
COORDINATES	X	0.0000	38.0000	76.0000	114.0000	152.0000	190.0000	228.0000	266.0000
	Y	0.0000	28.3733	52.6933	72.9600	89.1733	101.3333	109.4400	113.4933
GROSS SECTION (ASTM-A588)	2 WEB R'S	VARIES 108"x12" TO 108"x11 1/2"							
	1 CENTER R	43 1/2"x14" TO 44 1/2"x14"							
	FLANGE R'S (T.&B.)	48"x11 1/2" TO 48"x2 1/2"							
THRUST (KIPS)	DEAD LOAD	5,440	5,472	5,199	4,342	4,738	4,574	4,455	4,383
	L.L.+I (FOR POS.MOM.)	—	314	301	296	305	325	370	351
MOMENT (FT.KIPS)	DEAD LOAD	0	1,902	3,469	3,467	3,246	2,763	2,350	2,257
	L.L.+I (POSITIVE)	0	6,290	10,107	11,757	11,430	9,770	7,365	5,649
SHEAR (KIPS)	DEAD LOAD	—	233	237	210	213	213	220	230
	L.L.+I (POSITIVE)	—	159	125	106	101	117	137	151
MAX. STRESS (K/IN <sup>2</sup> )	L.L.+I (NEGATIVE)	—	98	89	90	104	133	150	155
	(D.L.+L.L.+I) AXIAL	—	9.93	9.44	9.51	9.16	8.90	10.08	10.70
PORTAL EFFECT	(D.L.+L.L.+I) BENDING (x-x)	—	6.67	11.29	12.10	11.84	10.21	10.08	9.02
	(D.L.+L.L.+I) TOTAL	—	16.60	20.73	21.61	21.00	19.11	20.16	19.72
	MAX. D.L. DEFLECTION (IN.)	0	1.16	2.26	3.15	3.82	4.30	4.61	4.76
PORTAL EFFECT	2 1/2% RIB THRUST								
	AXIAL (KIPS)		584						
75%/a WIND	BENDING y-y (FT.KIPS)		5120						
	AXIAL (KIPS)		296						
STRESS, 2 1/2% RIB THRUST	BENDING y-y (FT.KIPS)		5163						
	AXIAL (K/IN <sup>2</sup> )		1.05						
BENDING y-y (K/IN <sup>2</sup> )			7.85						

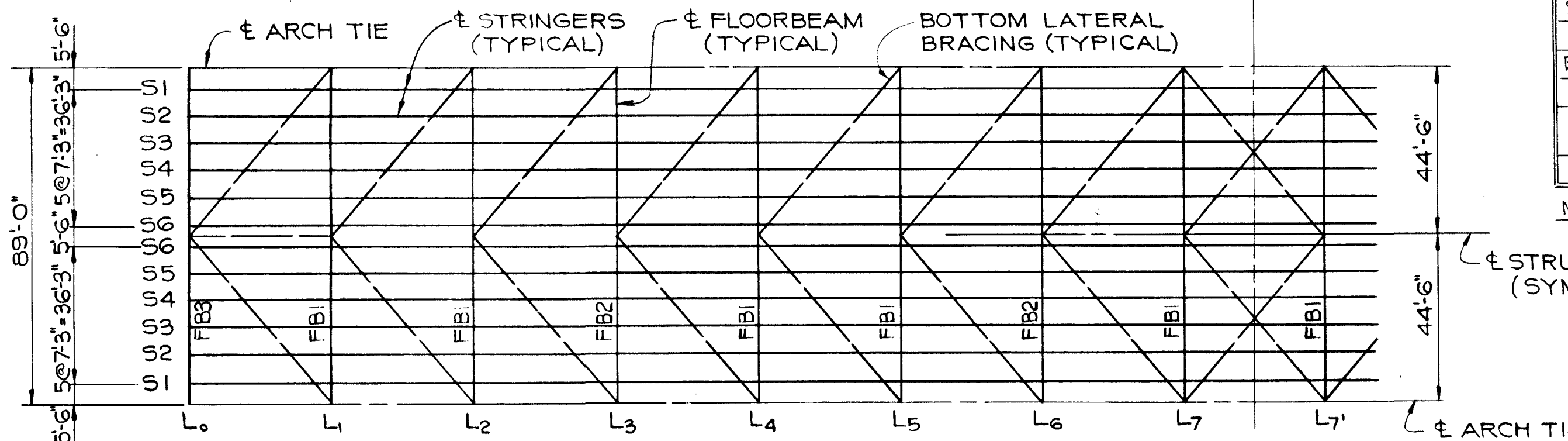
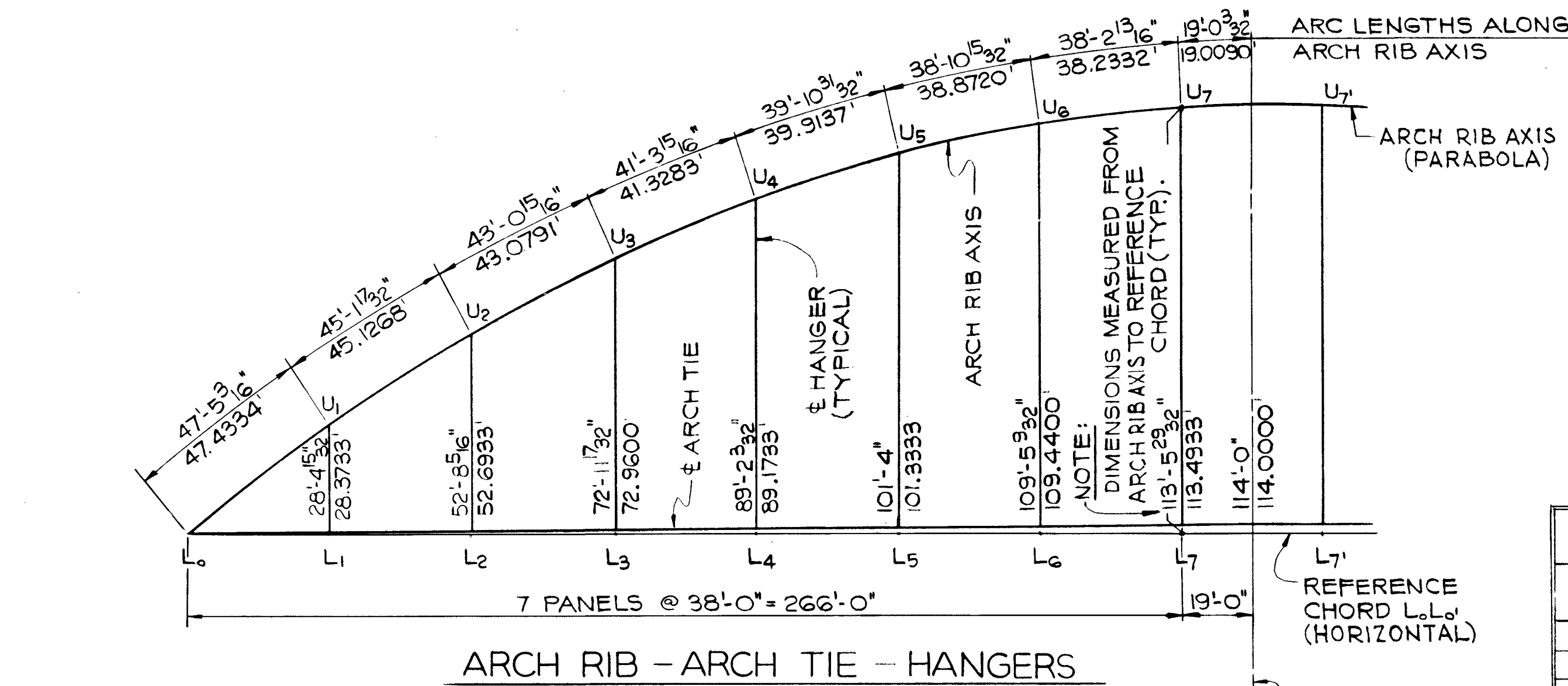
FLANGE R'S (T.&B.)	18"x24"
1 WEB R	18"x12"
AREA IN <sup>2</sup>	36.00
I <sub>x</sub> IN <sup>4</sup>	2613
I <sub>y</sub> IN <sup>4</sup>	729
r <sub>y</sub> IN.	4.50
L/r <sub>y</sub>	140
MAX. AXIAL FORCE (75%/a WIND)-KIPS	210
D.L. BENDING MOMENT - FT. KIPS	12
MATERIAL	A36

	END FLOORBEAMS		INT. FLOORBEAMS		STRINGERS S1 & S6		STRGS. S2, S3, S4 & S5	
	MOMENT	SHEAR	MOMENT	SHEAR	MOMENT	SHEAR	MOMENT	SHEAR
DEAD LOAD	21,300 <sup>K</sup>	3,291 <sup>K</sup>	7,176 <sup>K</sup>	908 <sup>K</sup>			208 <sup>K</sup>	22.0 <sup>K</sup>
LIVE LOAD	—	—	3,258 <sup>K</sup>	134 <sup>K</sup>			274 <sup>K</sup>	35.8 <sup>K</sup>
IMPACT	—	—	762 <sup>K</sup>	31 <sup>K</sup>			82 <sup>K</sup>	10.8 <sup>K</sup>
TOTAL	21,300 <sup>K</sup>	3,291 <sup>K</sup>	11,196 <sup>K</sup>	473 <sup>K</sup>			564 <sup>K</sup>	68.6 <sup>K</sup>
S.M. OR AREA REQ'D	6,300 IN <sup>3</sup>	129 IN <sup>2</sup>	6,700 IN <sup>3</sup>	39.5 IN <sup>2</sup>			338 IN <sup>3</sup>	5.7 IN <sup>2</sup>
WEB PLATE	95 5/8"x58" (MIN.)		102 5/8" (MAX.)					
BOTTOM FLANGE	20"x3"		20"x3" (MAX.)		33 WF 118		33 WF 118	
TOP FLANGE	20"x3"		20"x3" (MAX.)					
S.M. OR AREA PROVIDED	6,240 IN <sup>3</sup> (MIN.)	200 IN <sup>2</sup> (MAX.)	10,900 IN <sup>3</sup> (MAX.)	63.75 IN <sup>2</sup> (MAX.)	358.3 IN <sup>3</sup>	12.4 IN <sup>2</sup>	358.3 IN <sup>3</sup>	12.4 IN <sup>2</sup>
MATERIAL	A588		A36		A36		A36	

NOTE: END FLOORBEAMS DESIGNED FOR JACKING OF THE SUPERSTRUCTURE AT 150% OF THE BASIC ALLOWABLE STRESSES.

SECTION (ASTM-A588)	FLANGE R'S (T.&B.)	28 1/2"x58"
	2 WEB R'S	40"x31 1/2"
	AREA (NET) IN <sup>2</sup>	221.8
	MOMENT OF INERTIA (NET) IN <sup>4</sup>	38,580
AXIAL FORCE (KIPS)	DEAD LOAD	4,364
	L.L.+I	629
	TOTAL	4,993
MOMENT (FT.KIPS)	BENDING DUE TO DIFFERENTIAL (L.L.+I) HANGER ELONGATION	701
	(D.L.+L.L.+I) AXIAL	22.5
MAXIMUM STRESS (K/IN <sup>2</sup> )	BENDING	4.5
	TOTAL	27.0

NOTES:  
THE ARCH SPAN HAS BEEN DESIGNED AS A TIED ARCH FOR BOTH DEAD LOAD AND LIVE LOAD. ARCH STRESSES DUE TO WIND AND PANEL SHEARS EQUAL TO 2 1/2% OF ARCH RIB THRUST ARE NOT CRITICAL EXCEPT AT PANEL POINTS L<sub>0</sub> & U<sub>1</sub>.  
AMPLIFICATION MOMENTS SHOWN ABOVE ARE THE MOMENTS RESULTING FROM THE LIVE LOAD PLUS IMPACT DISPLACEMENT OF THE ARCH RIB AXIS.



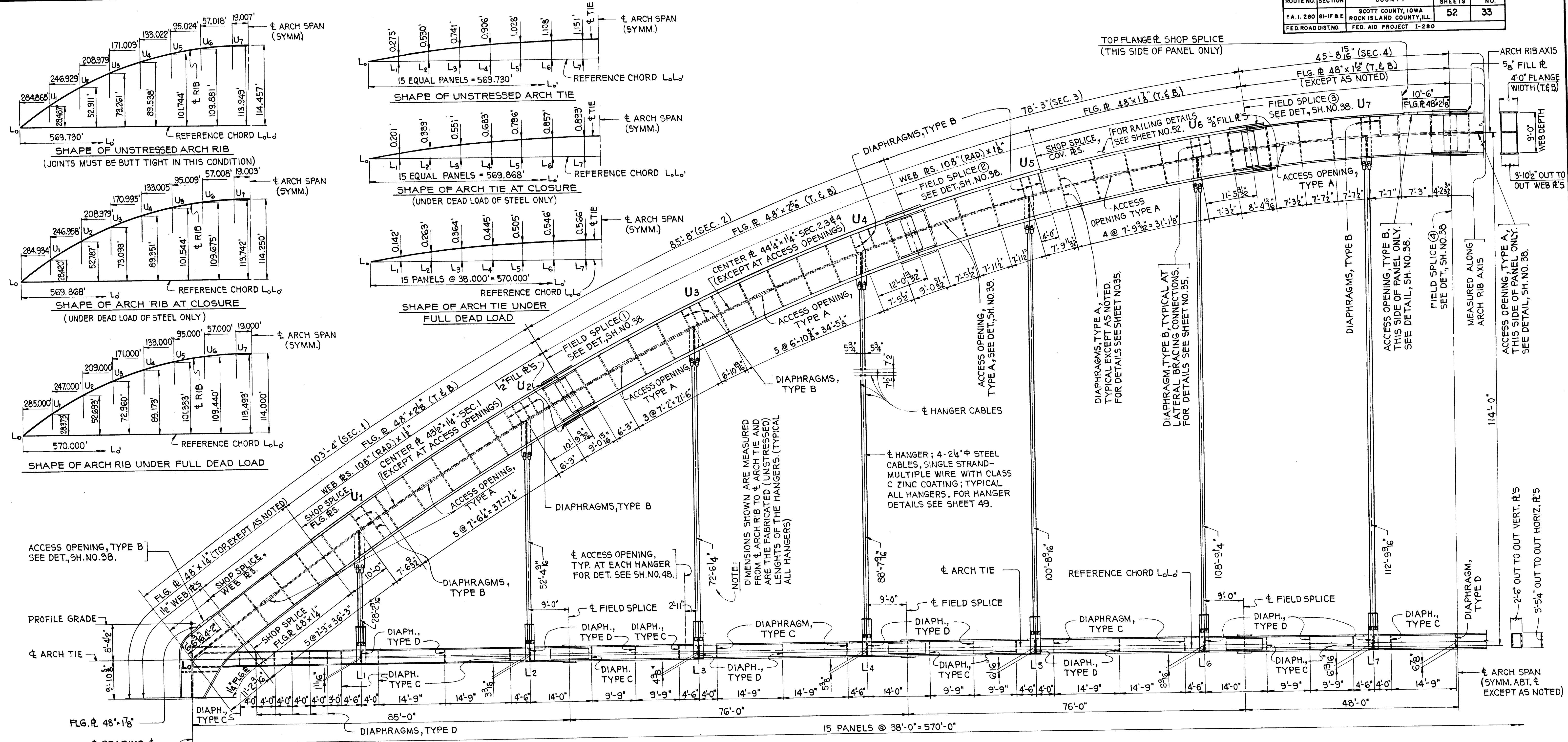
SECTION	4-2 1/4" Φ BRIDGE STRAND CABLES, CLASS C COATING (SINGLE STRAND, MULTIPLE WIRE)	
	AREA EACH CABLE = 3.04 IN <sup>2</sup> (APPROX.)	
TOTAL AXIAL FORCE (KIPS)	DEAD LOAD	310
	L.L.+I	165
	TOTAL	475
MINIMUM BREAKING STRENGTH (KIPS/CABLE)	602	

STRESS SHEET  
ARCH SPAN  
UNIT 5  
F.A.I. ROUTE 280 SECTION 81-IF & E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY P. POPOVIC  
CHECKED W.J. ZAPFEL  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 1. 280	81-IF & E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	33
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



HALF ELEVATION OF ARCH RIB - TIE - HANGERS  
SCALE: 3/32" = 1'-0"

PANEL POINT	HANGER CABLE ELONGATIONS UNDER DEAD LOADS		
	ELONGATIONS (FEET)		
	STEEL	CONCRETE & WEARING SURF.	TOTAL
U <sub>1</sub> & U <sub>1</sub> '	0.007	0.013	0.020
U <sub>2</sub> & U <sub>2</sub> '	0.017	0.033	0.050
U <sub>3</sub> & U <sub>3</sub> '	0.025	0.051	0.076
U <sub>4</sub> & U <sub>4</sub> '	0.032	0.064	0.096
U <sub>5</sub> & U <sub>5</sub> '	0.038	0.074	0.112
U <sub>6</sub> & U <sub>6</sub> '	0.041	0.081	0.122
U <sub>7</sub> & U <sub>7</sub> '	0.045	0.084	0.129

NOTE:  
THE EFFECT OF HANGER CABLE ELONGATIONS DUE TO DEAD LOADS HAS BEEN INCLUDED IN THE DIAGRAMS SHOWING THE SHAPE OF THE UNSTRESSED ARCH TIE AND THE SHAPE OF THE ARCH TIE AT CLOSURE.

NOTES:

ALL STRUCTURAL STEEL FOR ARCH RIB & ARCH TIE SHALL BE A.S.T.M. - A588.  
UNLESS OTHERWISE NOTED ALL DIMENSIONS SHOWN ARE DIMENSIONS UNDER FULL DEAD LOAD AT 50°F.  
ALL DIMENSIONS SHOWN FOR THE ARCH RIB ARE MEASURED ALONG THE ARCH RIB AXIS.  
ALL DIMENSIONS SHOWN FOR THE ARCH TIE ARE MEASURED ALONG THE CHORD L<sub>0</sub>L<sub>0</sub>'.  
ALL HANGERS SHALL BE VERTICAL UNDER FULL DEAD LOAD.  
ALL DIAPHRAGMS OF THE ARCH RIB SHALL BE NORMAL TO THE ARCH RIB AXIS.  
THE ARCH RIB & TIE SHALL BE CAMBERED TO GIVE THE TRUE GEOMETRIC CONFIGURATION UNDER FULL DEAD LOAD AT 50°F.

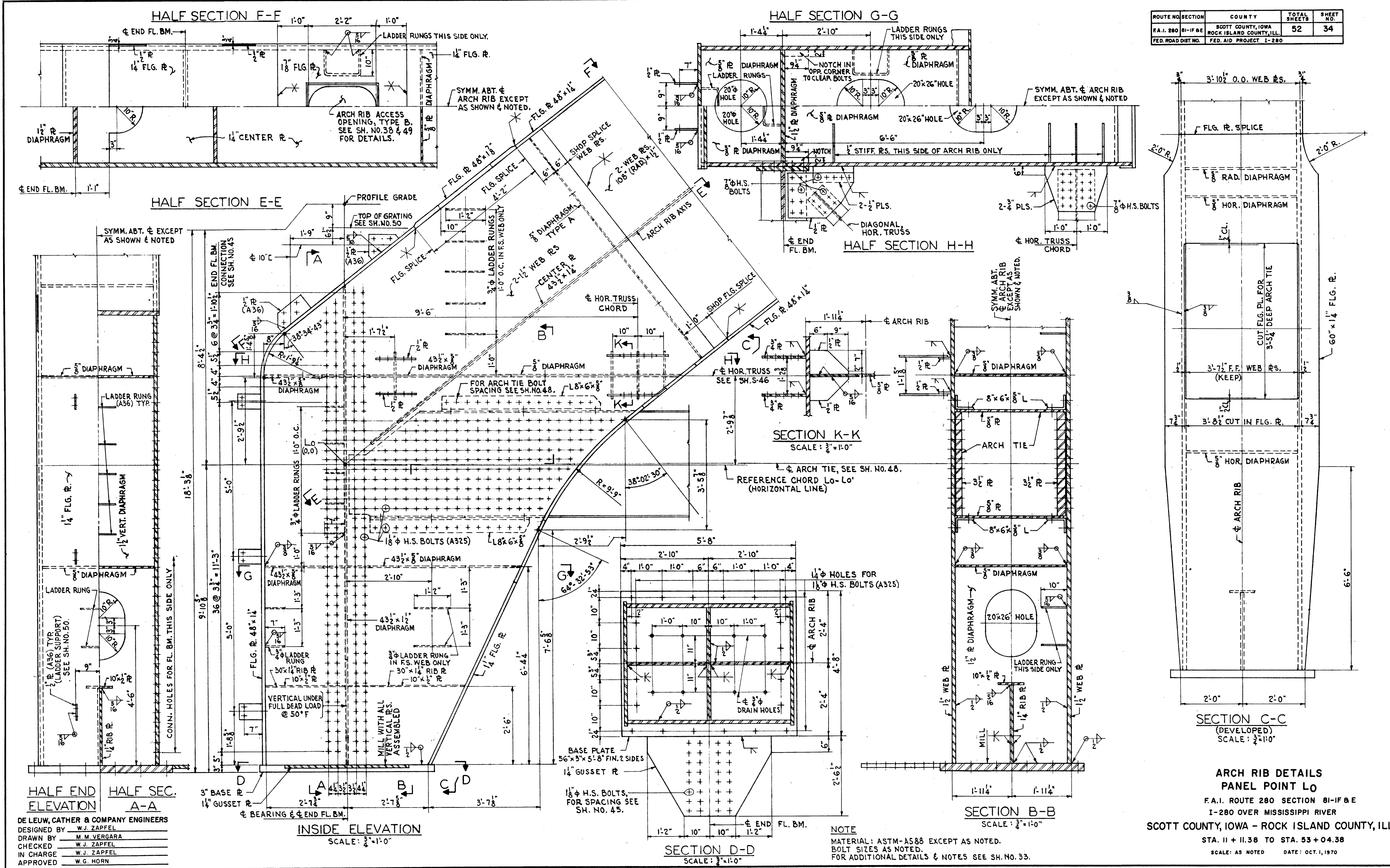
THE ARCH SPAN HAS BEEN DESIGNED AS A TIED ARCH FOR BOTH DEAD LOAD & LIVE LOAD.  
ALL MEMBERS CONSTITUTING EACH TIED ARCH TRUSS SHALL BE ASSEMBLED IN THE SHOP AND FIELD BOLT HOLES DRILLED OR REAMED WHILE PARTS ARE ASSEMBLED AND ALL PARTS CORRECTLY MATCHMARKED. ASSEMBLY MAY BE BY SUCCESSIVE OPERATIONS, PROVIDED THE RESULTS OBTAINED ARE EQUIVALENT TO COMPLETE SIMULTANEOUS ASSEMBLY OF EACH TRUSS.

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY P. POPOVIC  
CHECKED W.J. ZAPFEL  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

ARCH RIB, TIE AND HANGER DATA  
F.A. 1. ROUTE 280 SECTION 81-IF & E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF 8E	SCOTT COUNTY, IOWA	52	34
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		

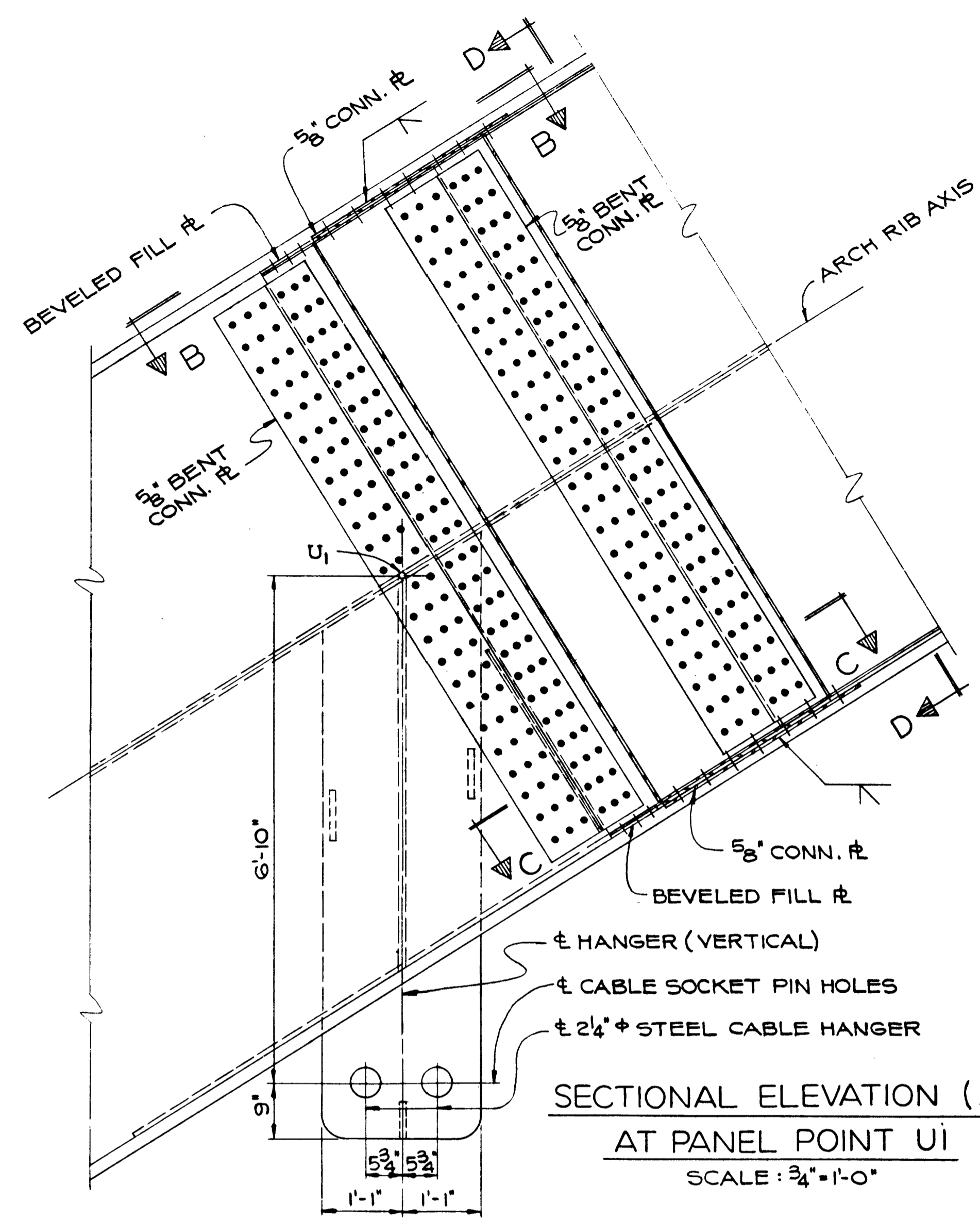


DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY M.M. VERGARA  
 CHECKED BY W.J. ZAPFEL  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

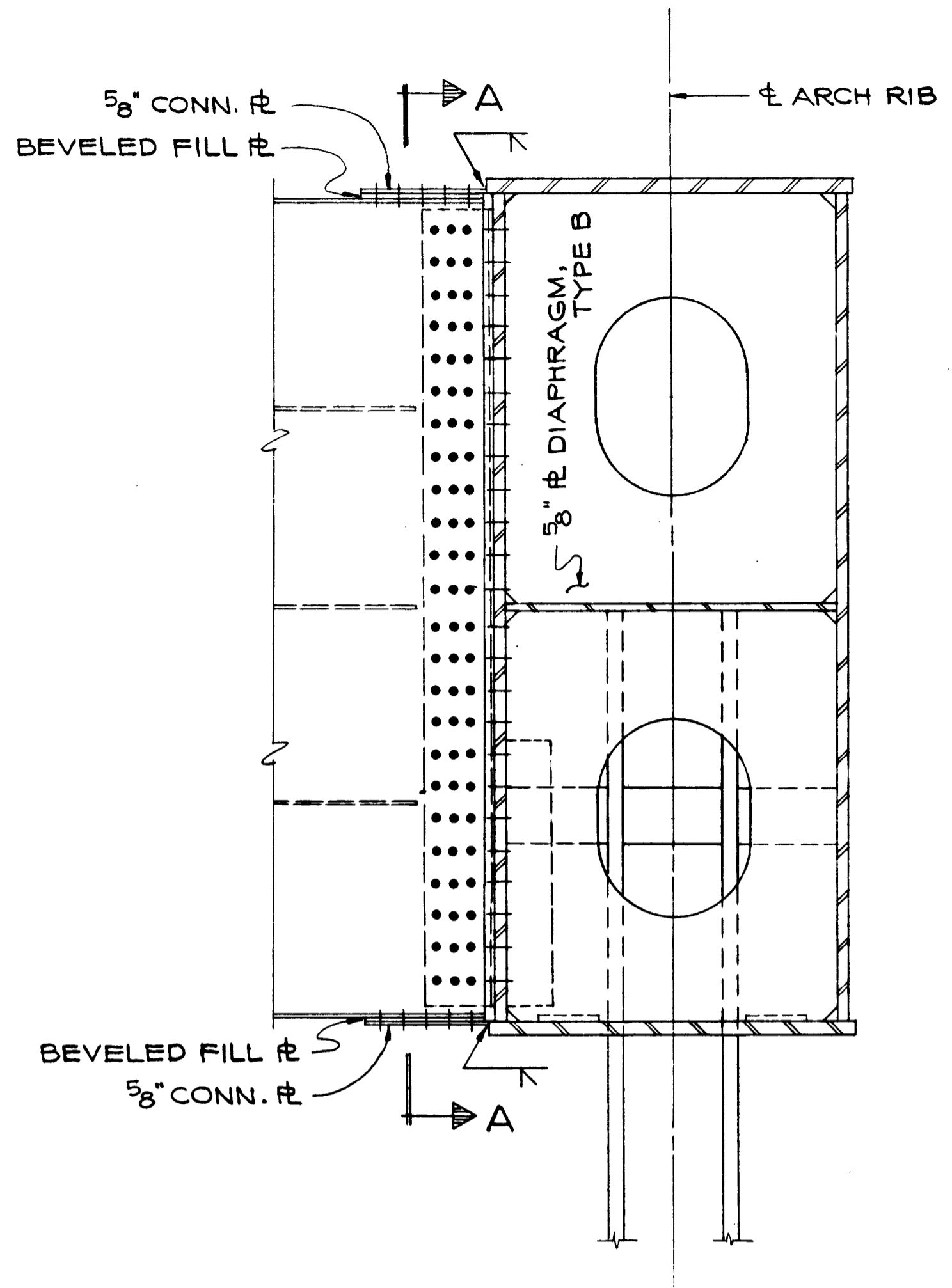
**ARCH RIB DETAILS**  
**PANEL POINT L0**  
 F.A.I. ROUTE 280 SECTION 81-IF 8E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

**NOTE**  
 MATERIAL: ASTM-A588 EXCEPT AS NOTED.  
 BOLT SIZES AS NOTED.  
 FOR ADDITIONAL DETAILS & NOTES SEE SH. NO. 33.

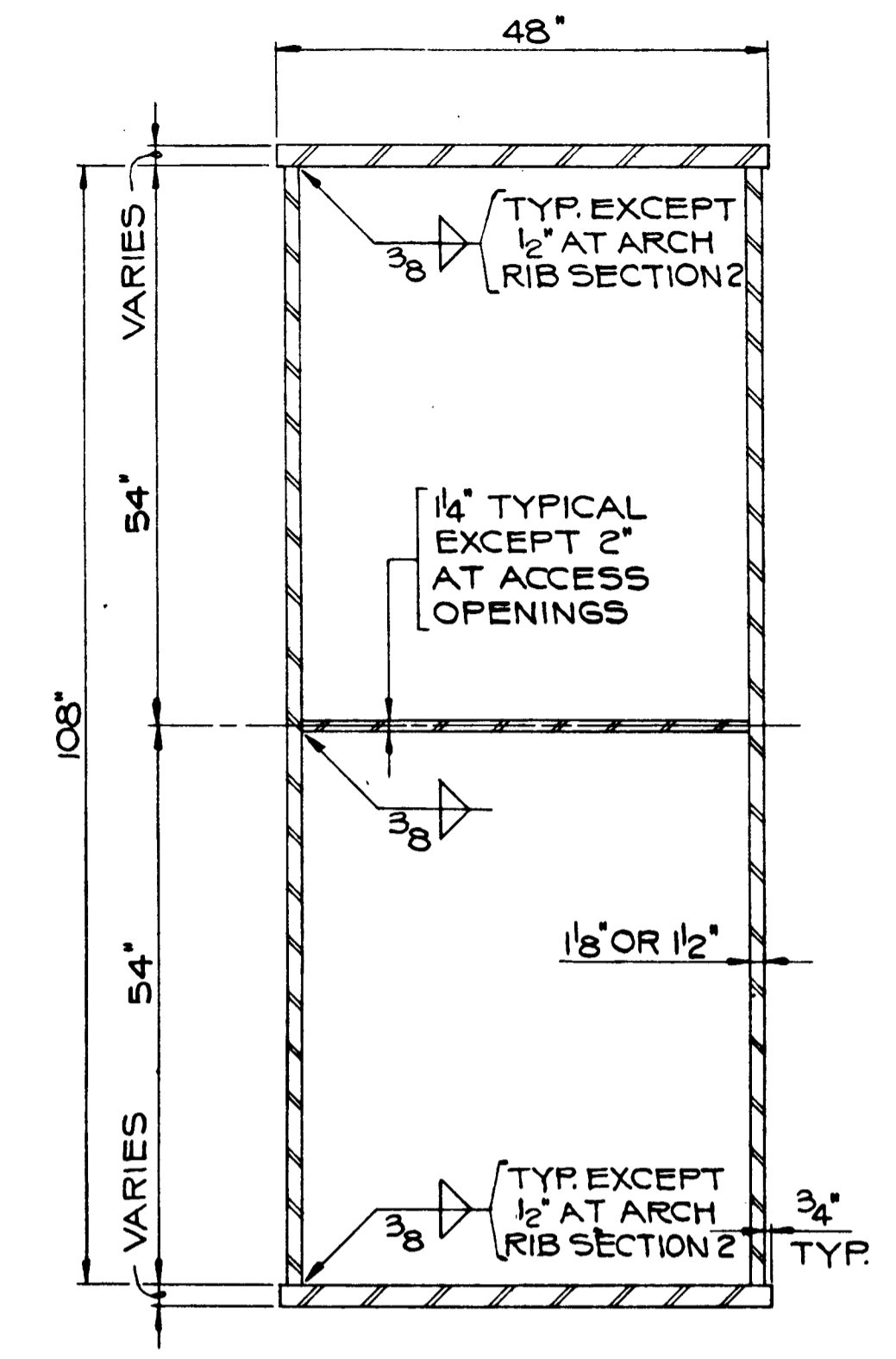
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF & E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	35
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



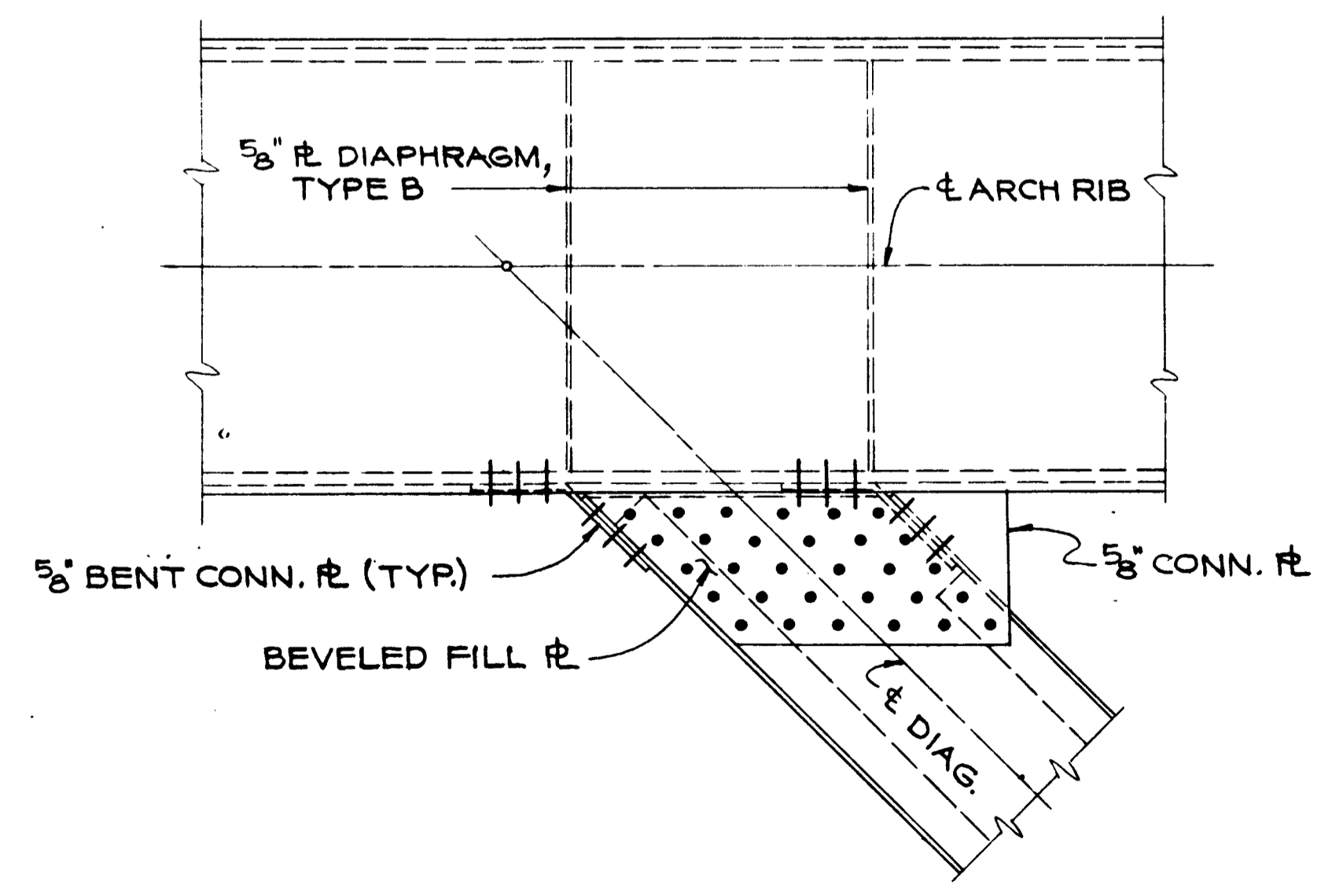
SECTIONAL ELEVATION (A-A)  
AT PANEL POINT U1  
SCALE: 3/4" = 1'-0"



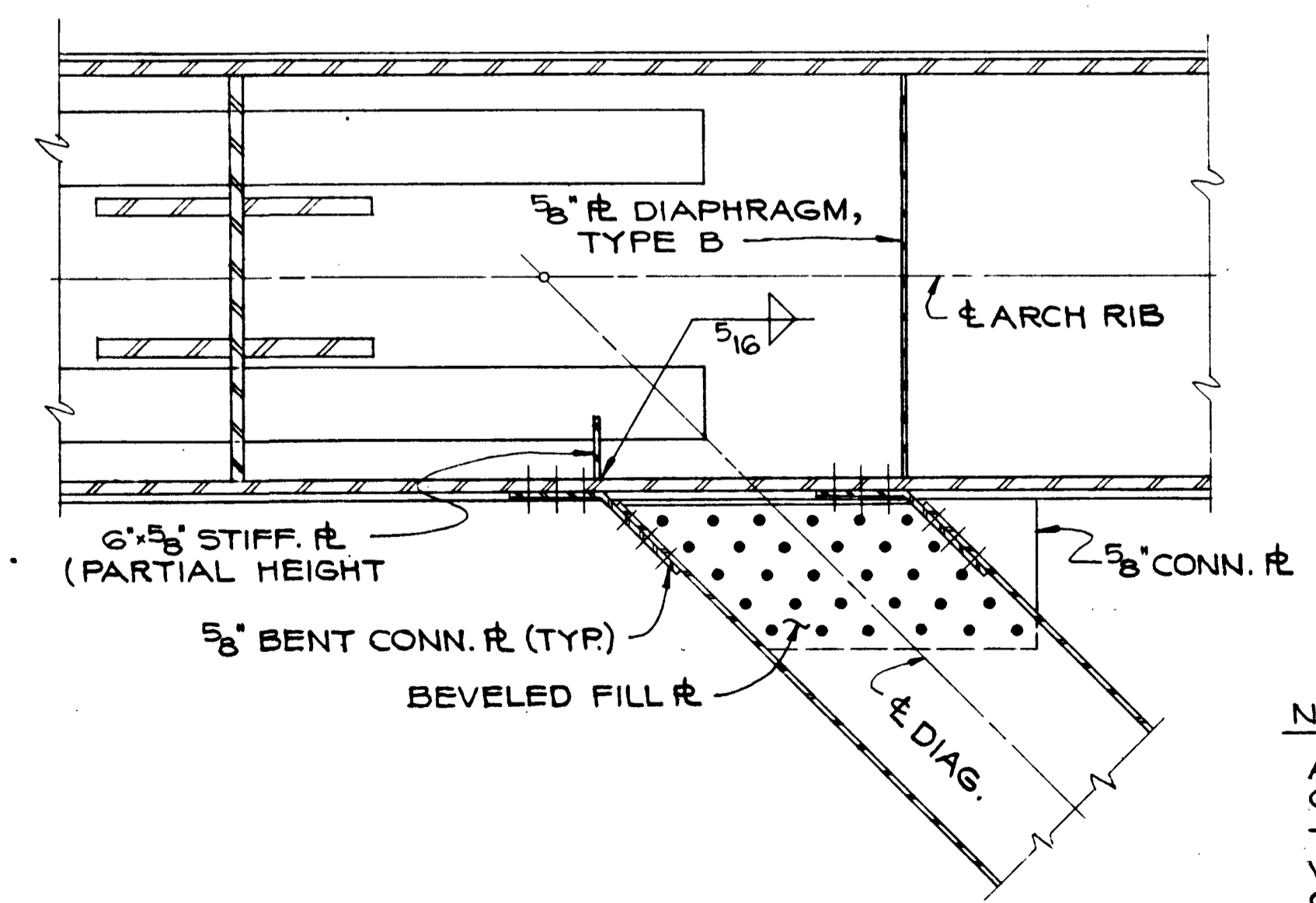
SECTION D-D  
SCALE: 3/4" = 1'-0"



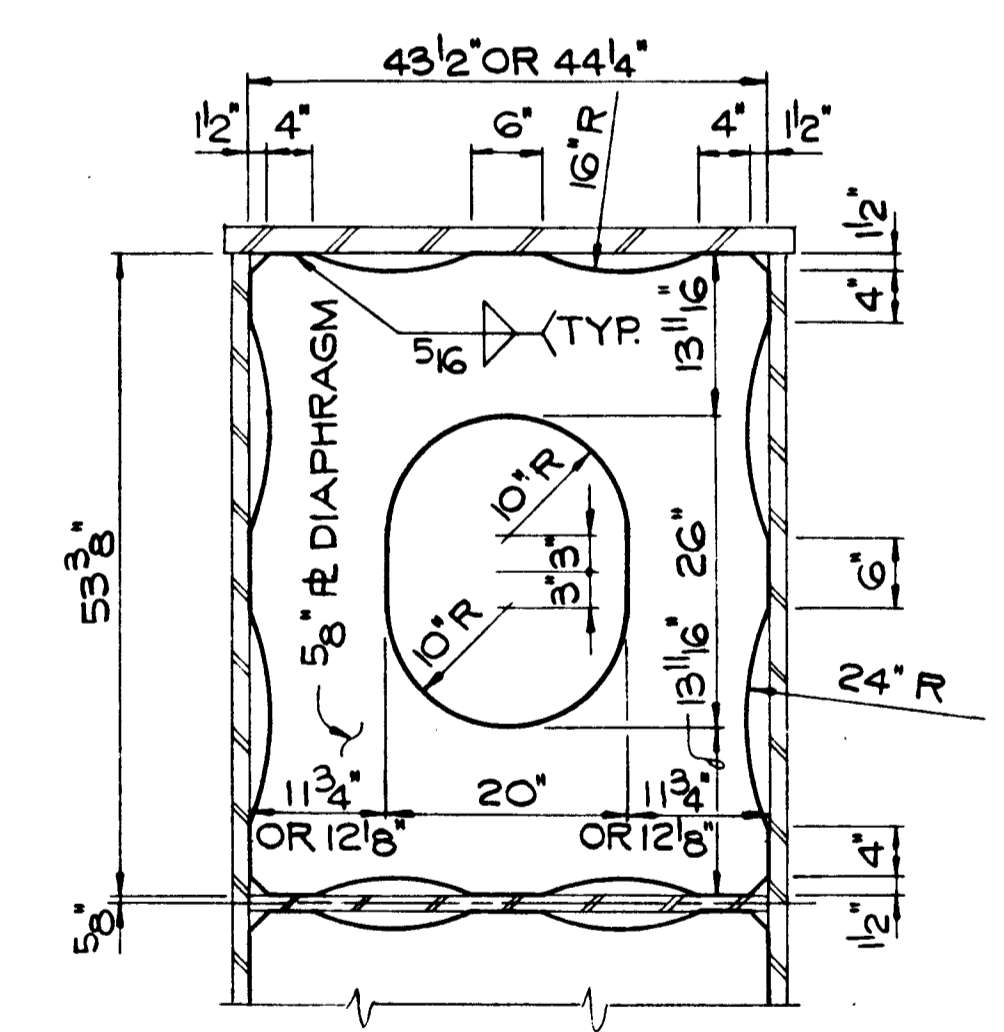
TYPICAL ARCH RIB SECTION  
SCALE: 3/4" = 1'-0"



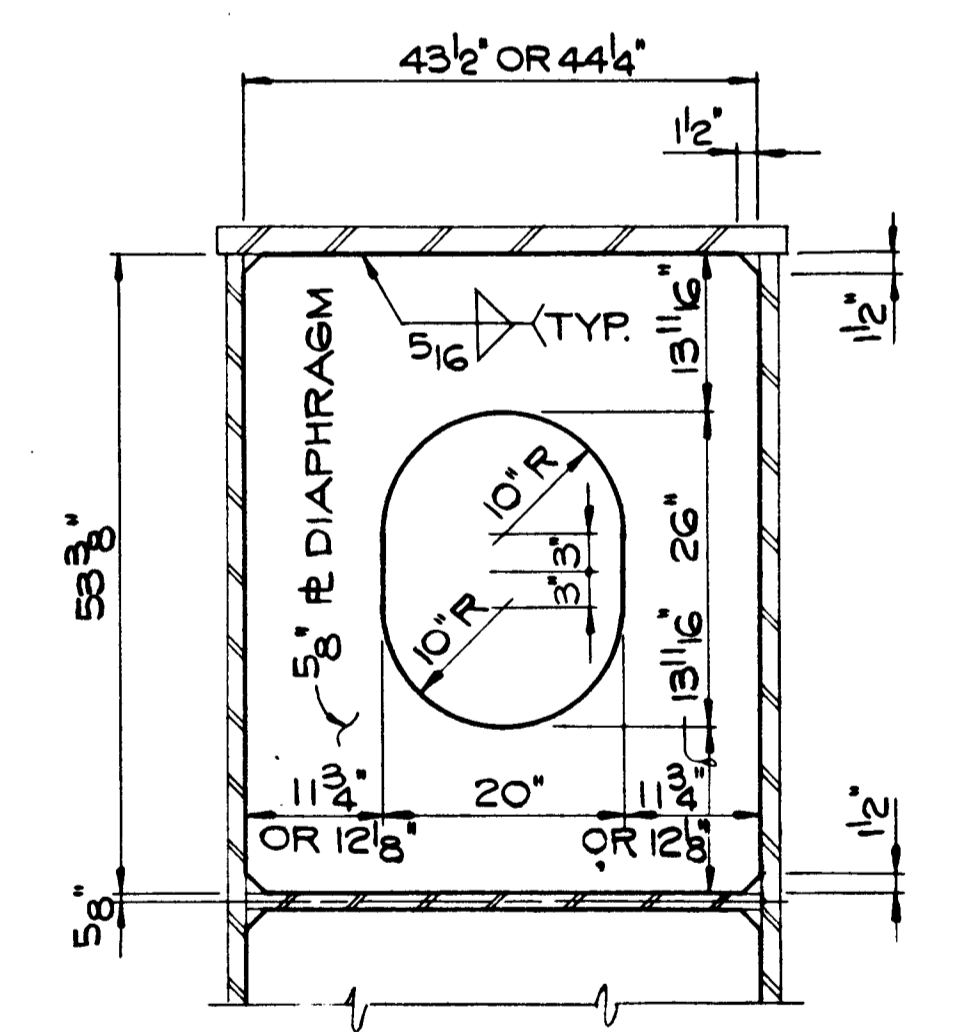
SECTION B-B  
SCALE: 3/4" = 1'-0"



SECTION C-C  
SCALE: 3/4" = 1'-0"



TYPE A  
SCALE: 3/4" = 1'-0"



TYPE B  
SCALE: 3/4" = 1'-0"

ARCH RIB DIAPHRAGM DETAILS

NOTES:

- ALL FASTENERS FOR TOP LATERAL BRACING CONNECTIONS SHALL BE 7/8"  $\phi$ , A325 HIGH STRENGTH BOLTS. THE TOP LATERAL CONNECTION PLATES WHICH ARE WELDED TO THE ARCH RIB SHALL BE A.S.T.M. - A588. ALL OTHER CONNECTION PLATES AND FILL PLATES SHALL BE A.S.T.M. - A36.
- FOR TYPICAL ARCH RIB HANGER CONNECTION DETAILS SEE SHEET NO. 38.
- FOR TOP LATERAL BRACING DETAILS SEE SHEETS NO. 39 & 40.
- FOR ADDITIONAL DETAILS & NOTES SEE SHEET NO. 33.
- FOR ARCH RIB RAILING DETAILS SEE SHEET NO. 52.

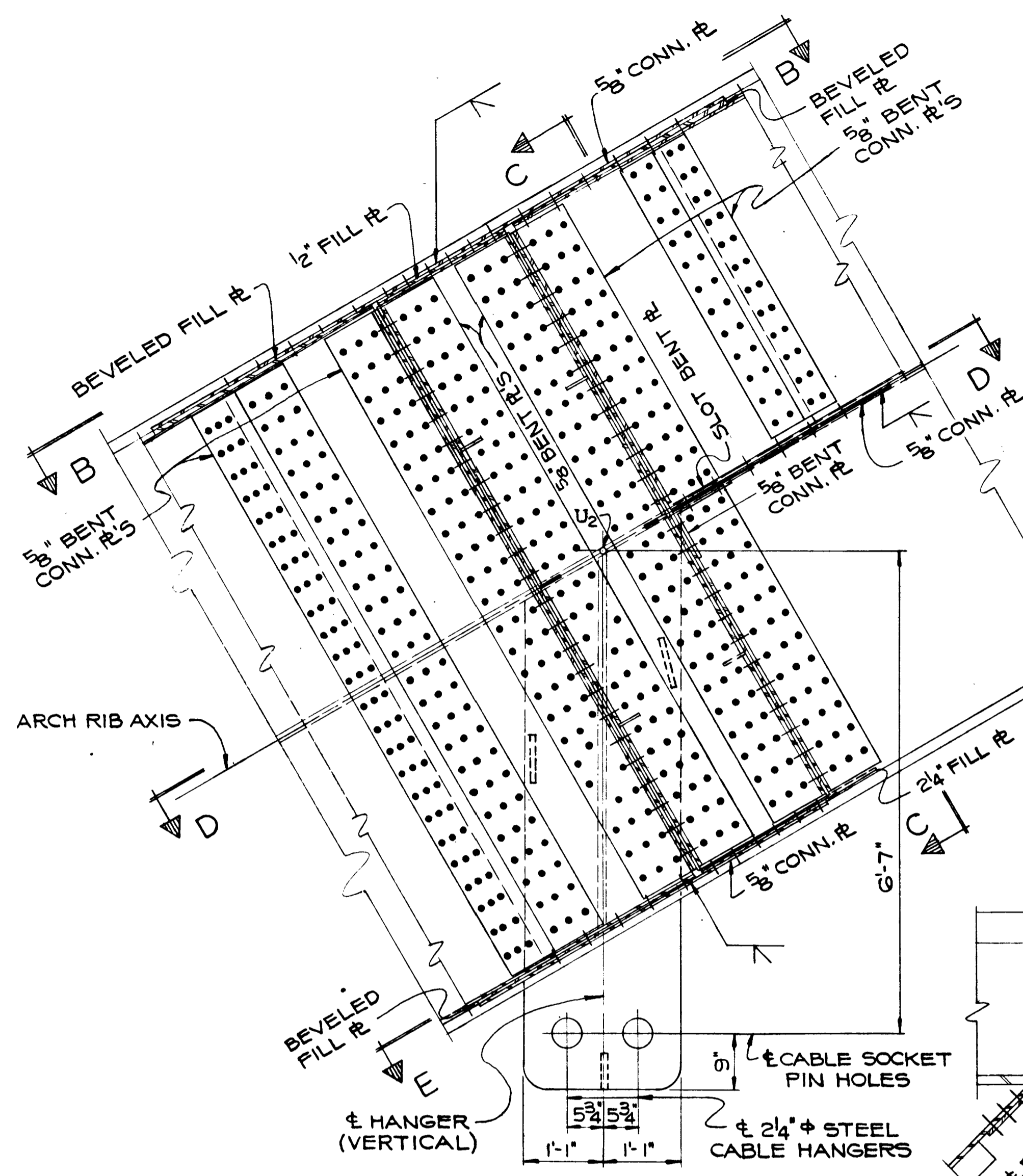
ARCH RIB DETAILS  
PANEL POINT U1

F.A.I. ROUTE 280 SECTION 81-IF & E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

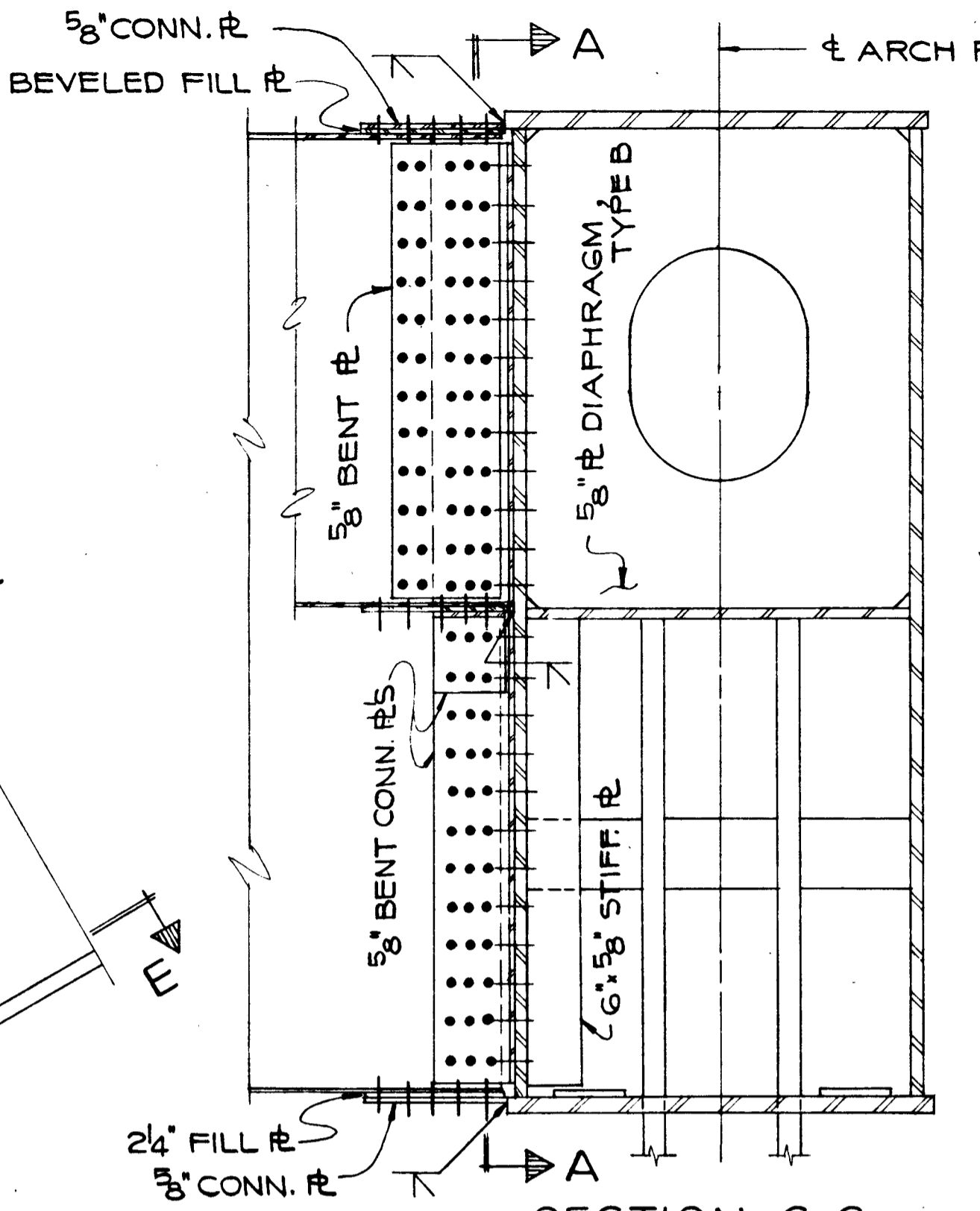
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY P. POROVIC  
CHECKED W.J. ZAPFEL  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN



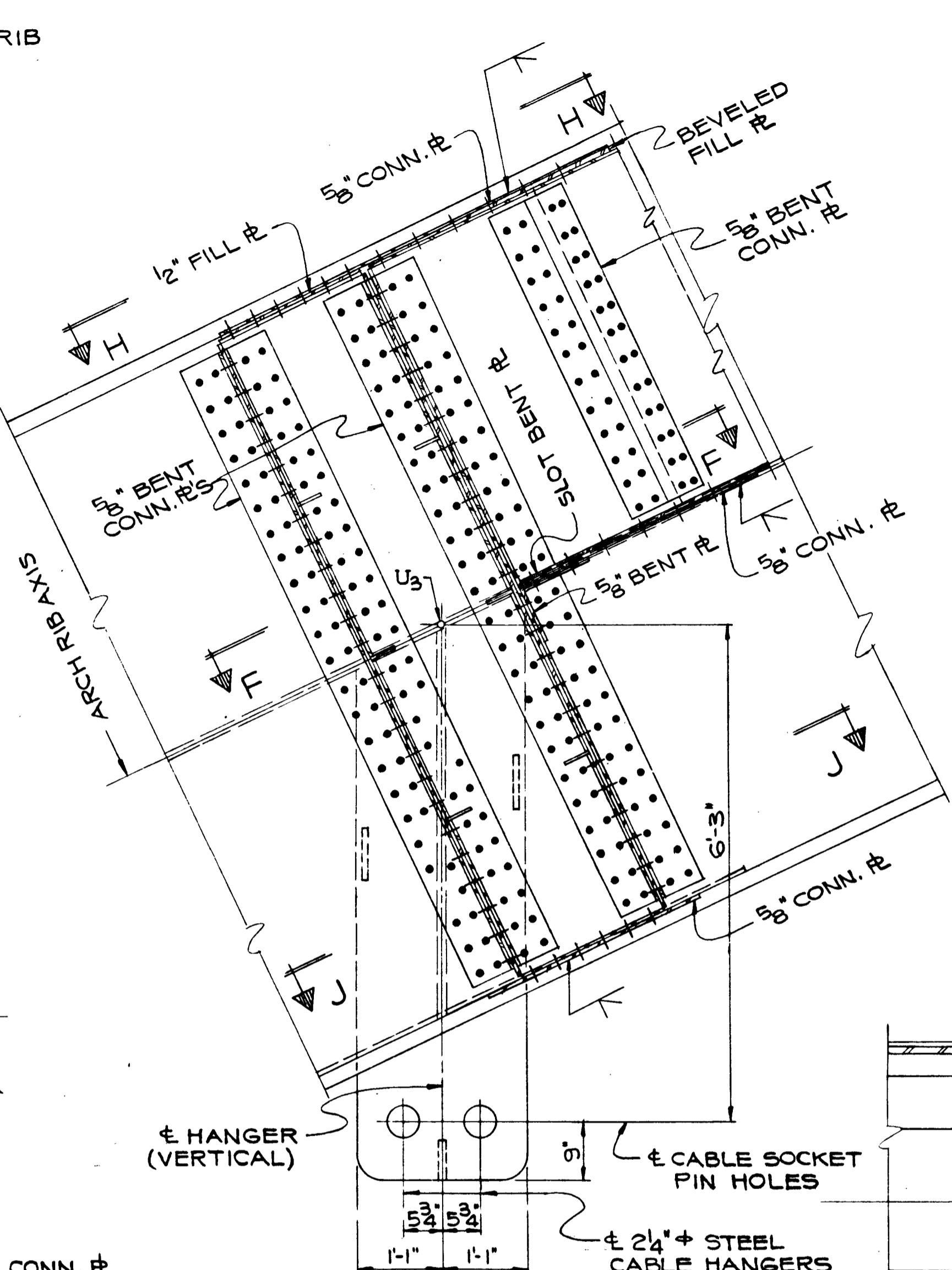
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF & E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	36
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		



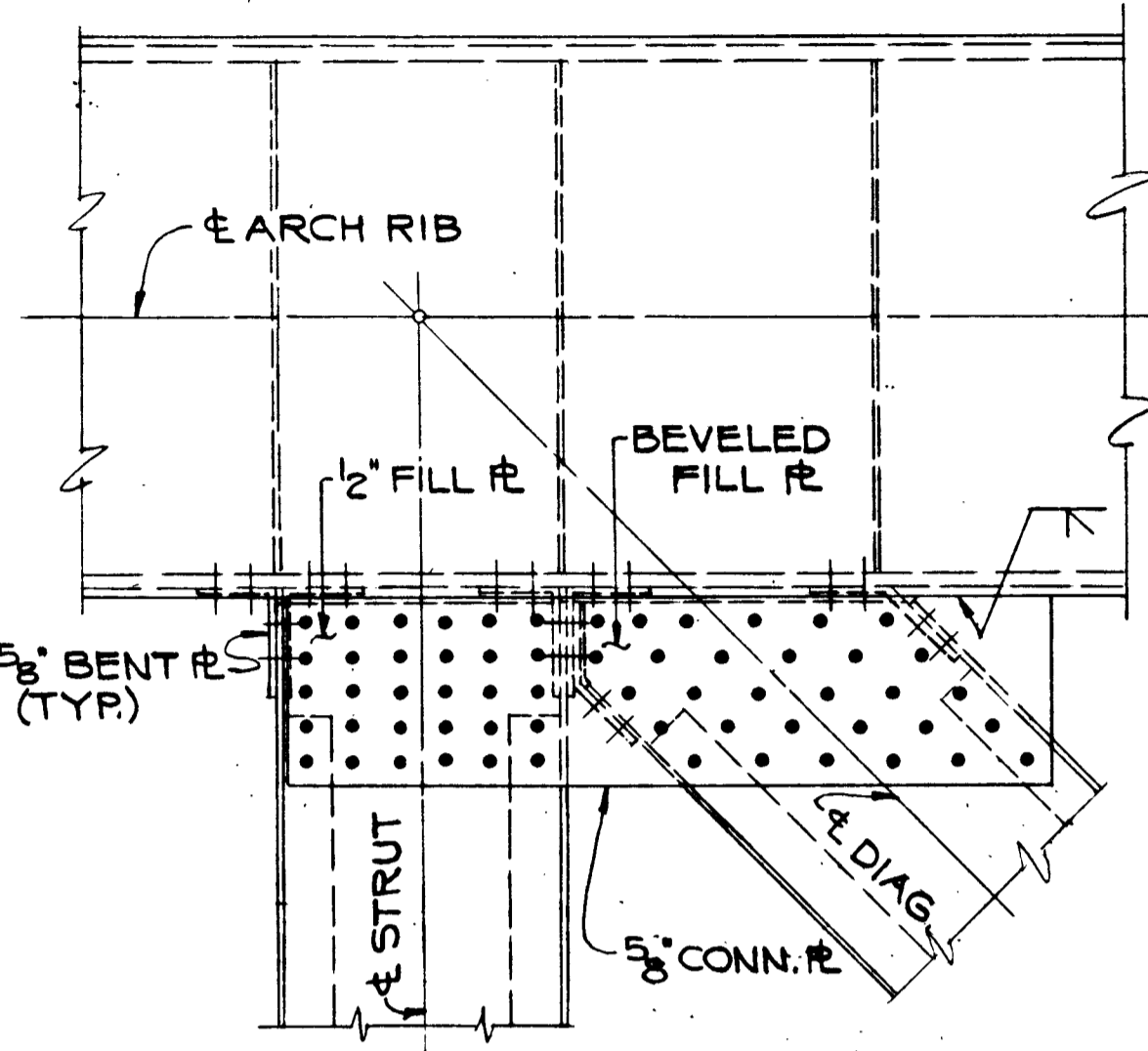
SECTIONAL ELEVATION (A-A)  
AT PANEL POINT U2  
SCALE: 3/4" = 1'-0"



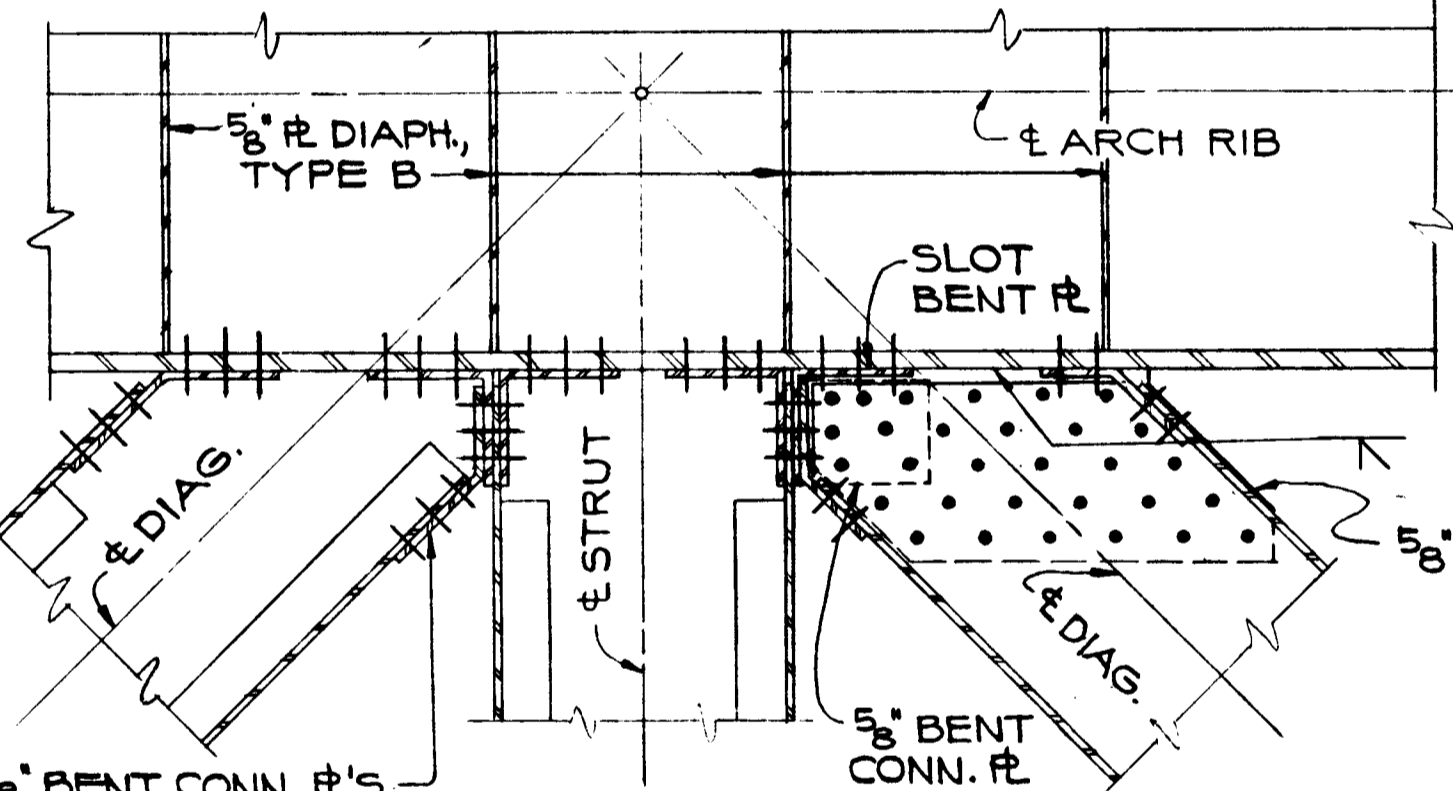
SECTION C-C  
SCALE: 3/4" = 1'-0"



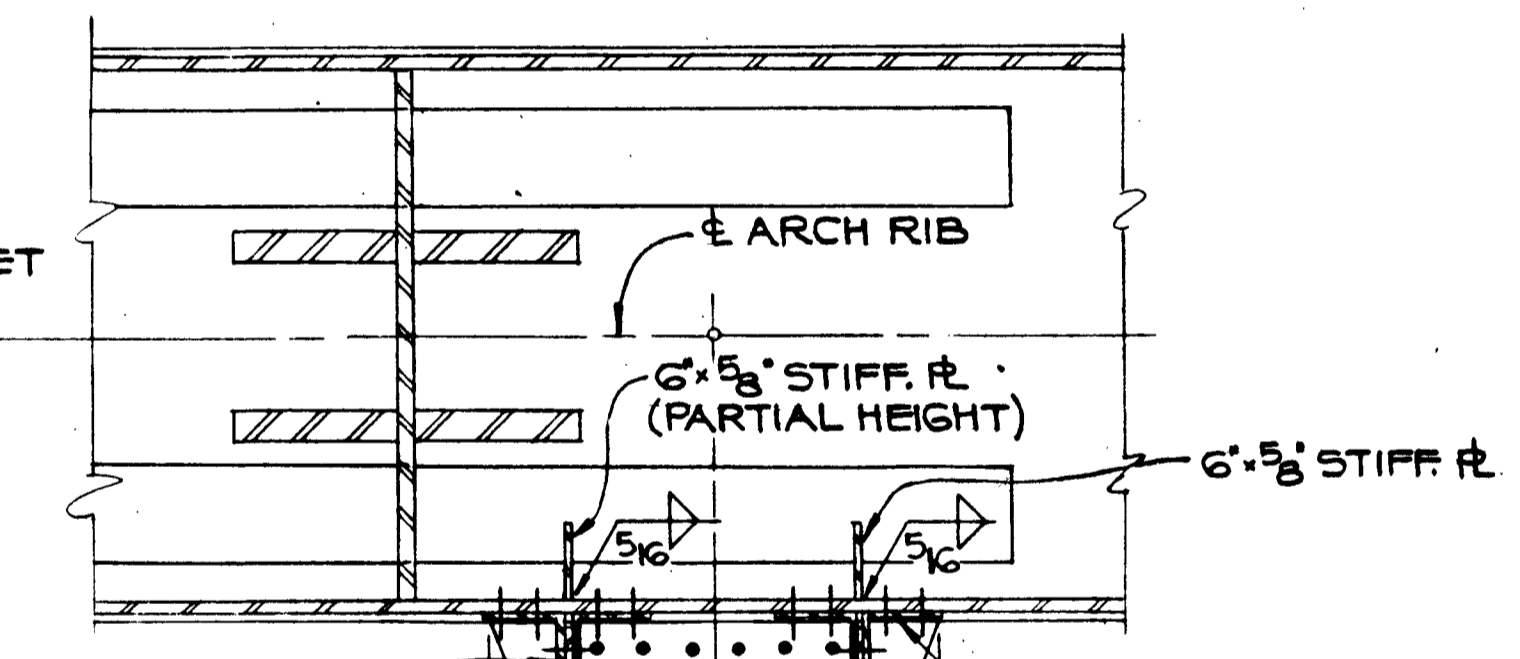
SECTIONAL ELEVATION  
AT PANEL POINT U3  
SCALE: 3/4" = 1'-0"



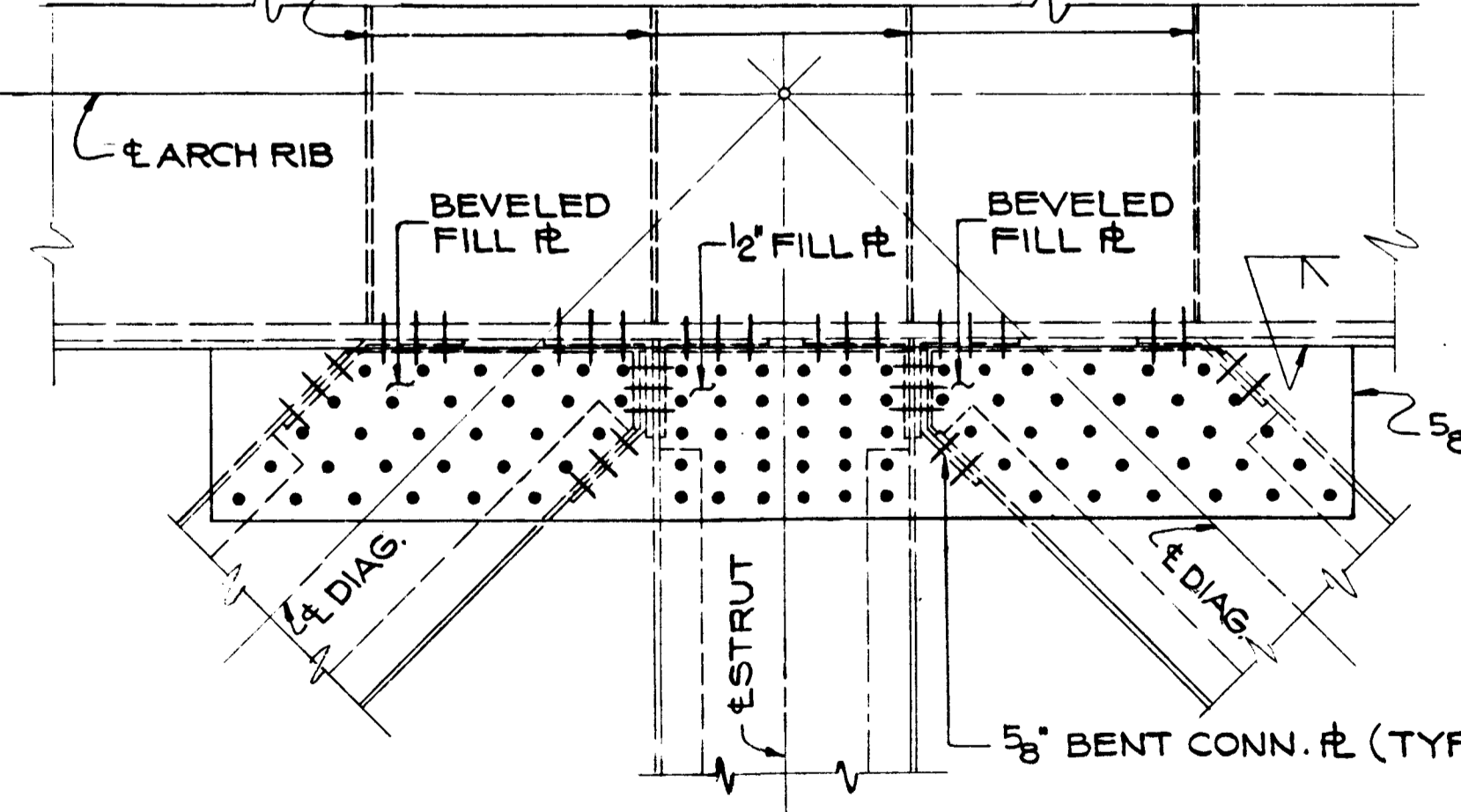
SECTION H-H  
SCALE: 3/4" = 1'-0"



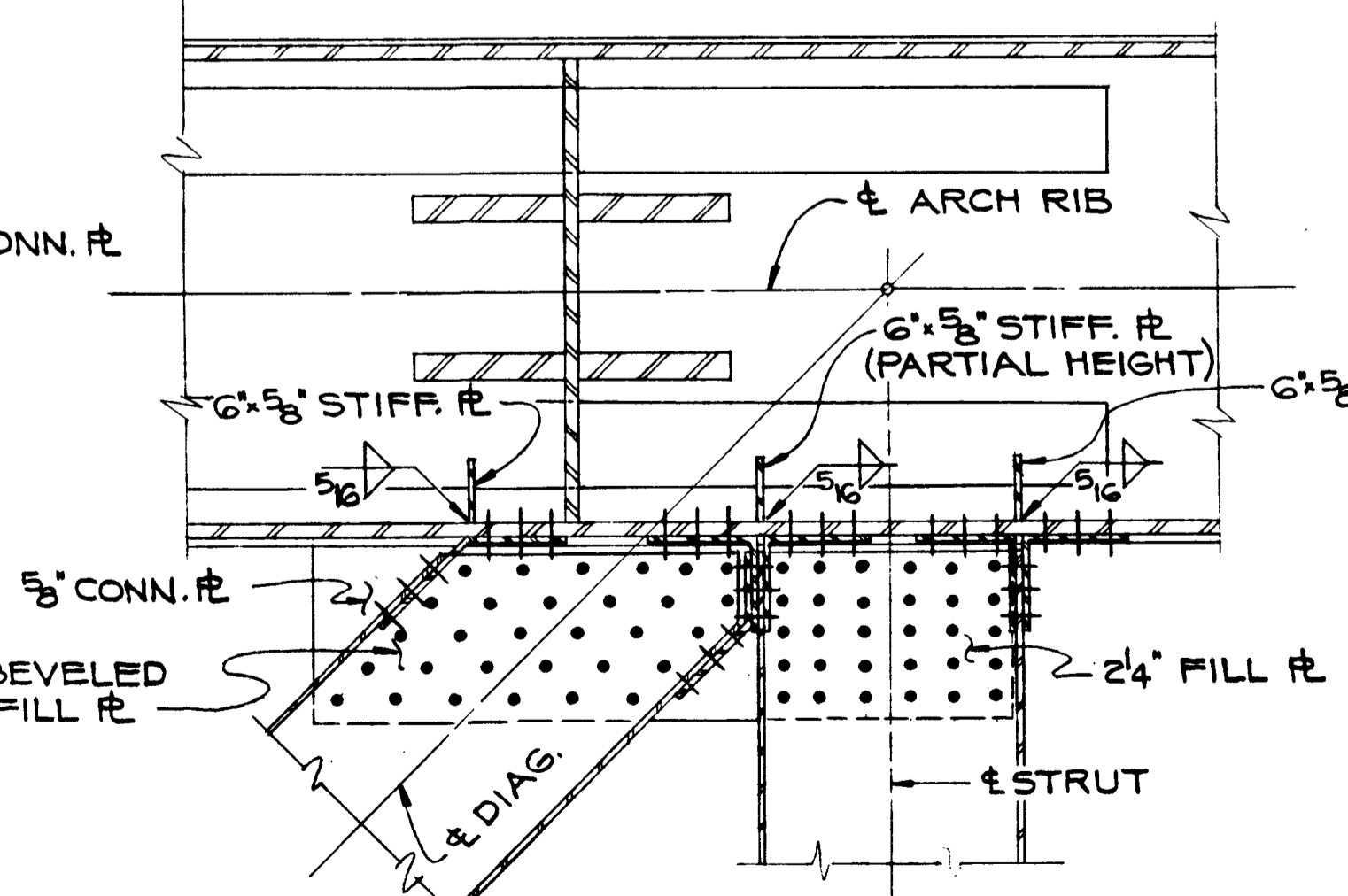
SECTION D-D  
SCALE: 3/4" = 1'-0"



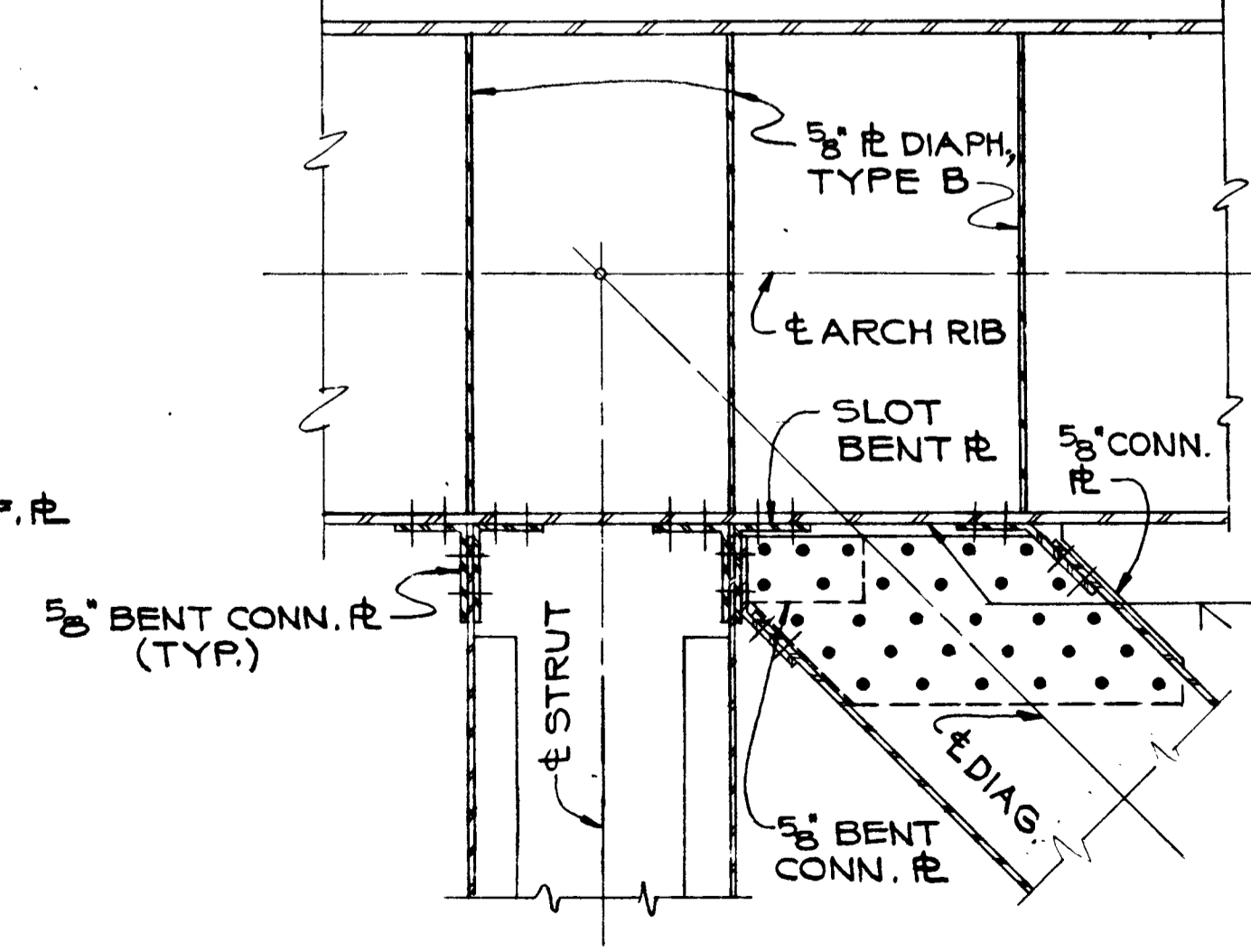
SECTION J-J  
SCALE: 3/4" = 1'-0"



SECTION B-B  
SCALE: 3/4" = 1'-0"



SECTION E-E  
SCALE: 3/4" = 1'-0"



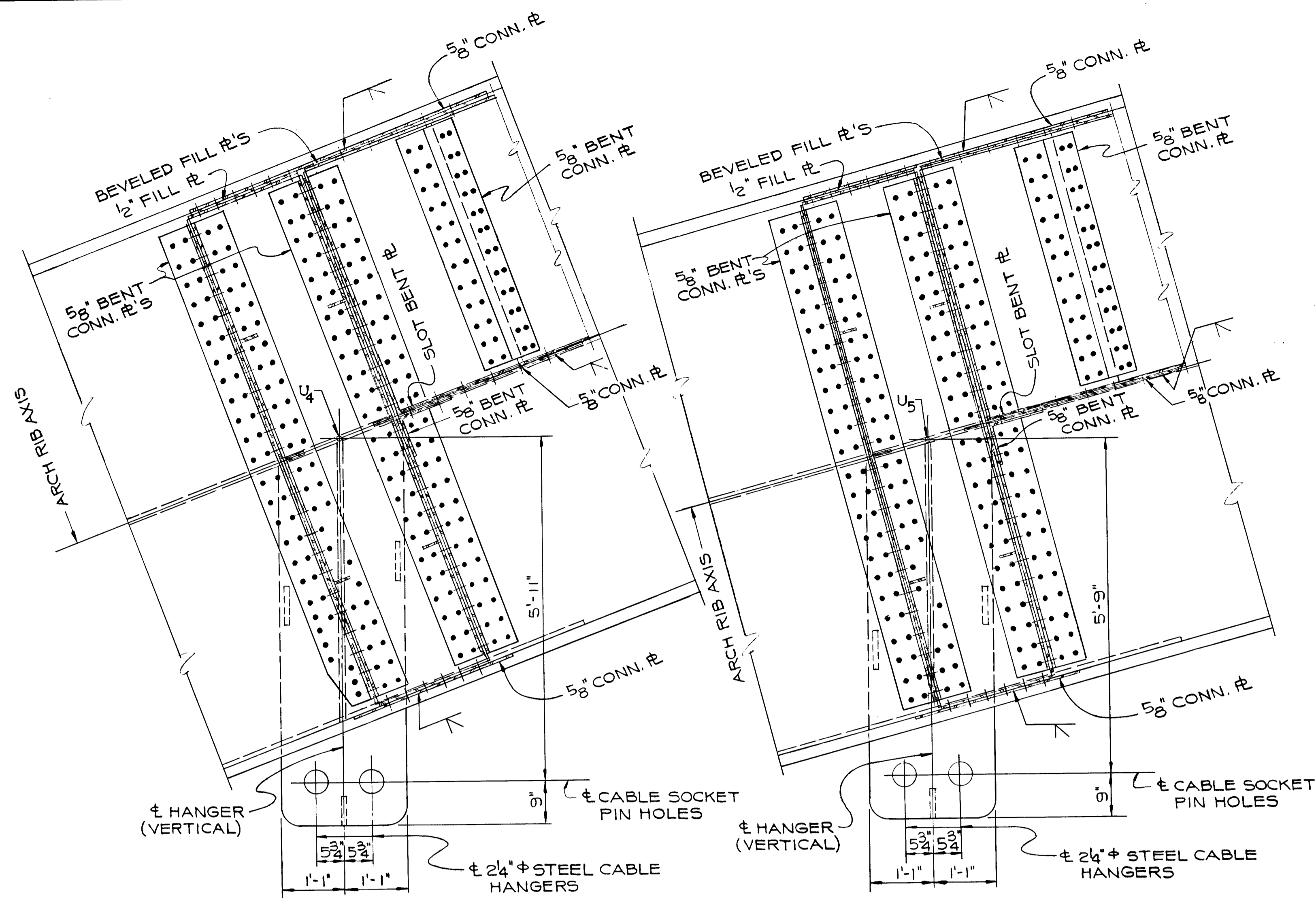
SECTION F-F  
SCALE: 3/4" = 1'-0"

**NOTES**  
 ALL FASTENERS FOR TOP LATERAL BRACING CONNECTIONS SHALL BE 7/8" A325 HIGH STRENGTH BOLTS. THE TOP LATERAL CONNECTION PLATES WHICH ARE WELDED TO THE ARCH RIB SHALL BE A.S.T.M. - A588. ALL OTHER CONNECTION PLATES AND FILL PLATES SHALL BE A.S.T.M. - A36.  
 FOR TYPICAL ARCH RIB HANGER CONNECTION DETAILS SEE SHEET NO. 38.  
 FOR TOP LATERAL BRACING DETAILS SEE SHEETS NO. 39 & 40.  
 FOR ADDITIONAL DETAILS & NOTES SEE SHEET NO. 33.  
 FOR ARCH RIB RAILING DETAILS SEE SHEET NO. 52.

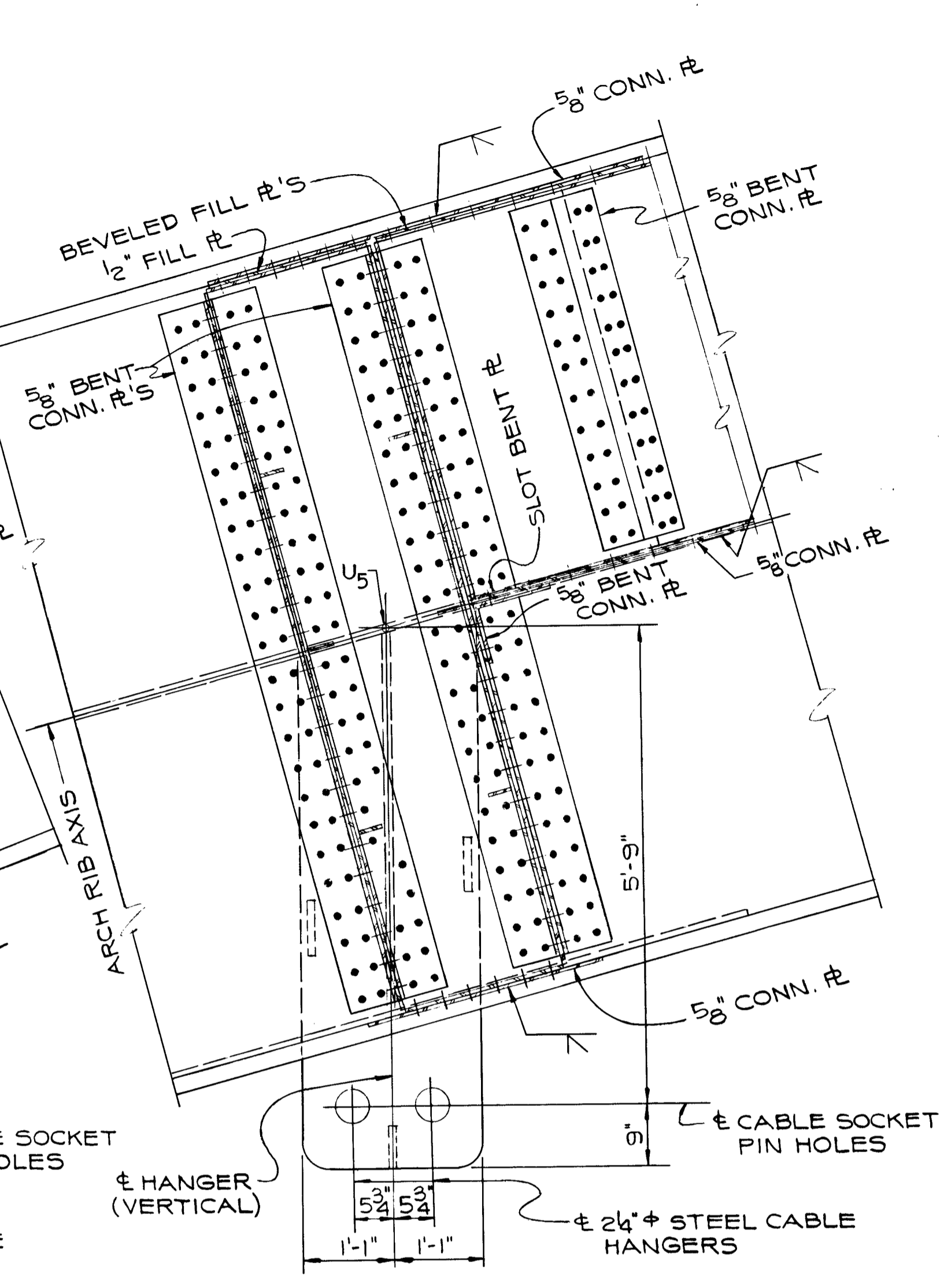
**ARCH RIB DETAILS**  
**PANEL POINTS U2 AND U3**  
 F.A.I. ROUTE 280 SECTION 81-IF & E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY P. POPOVIC  
 CHECKED W.J. ZAPFEL  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

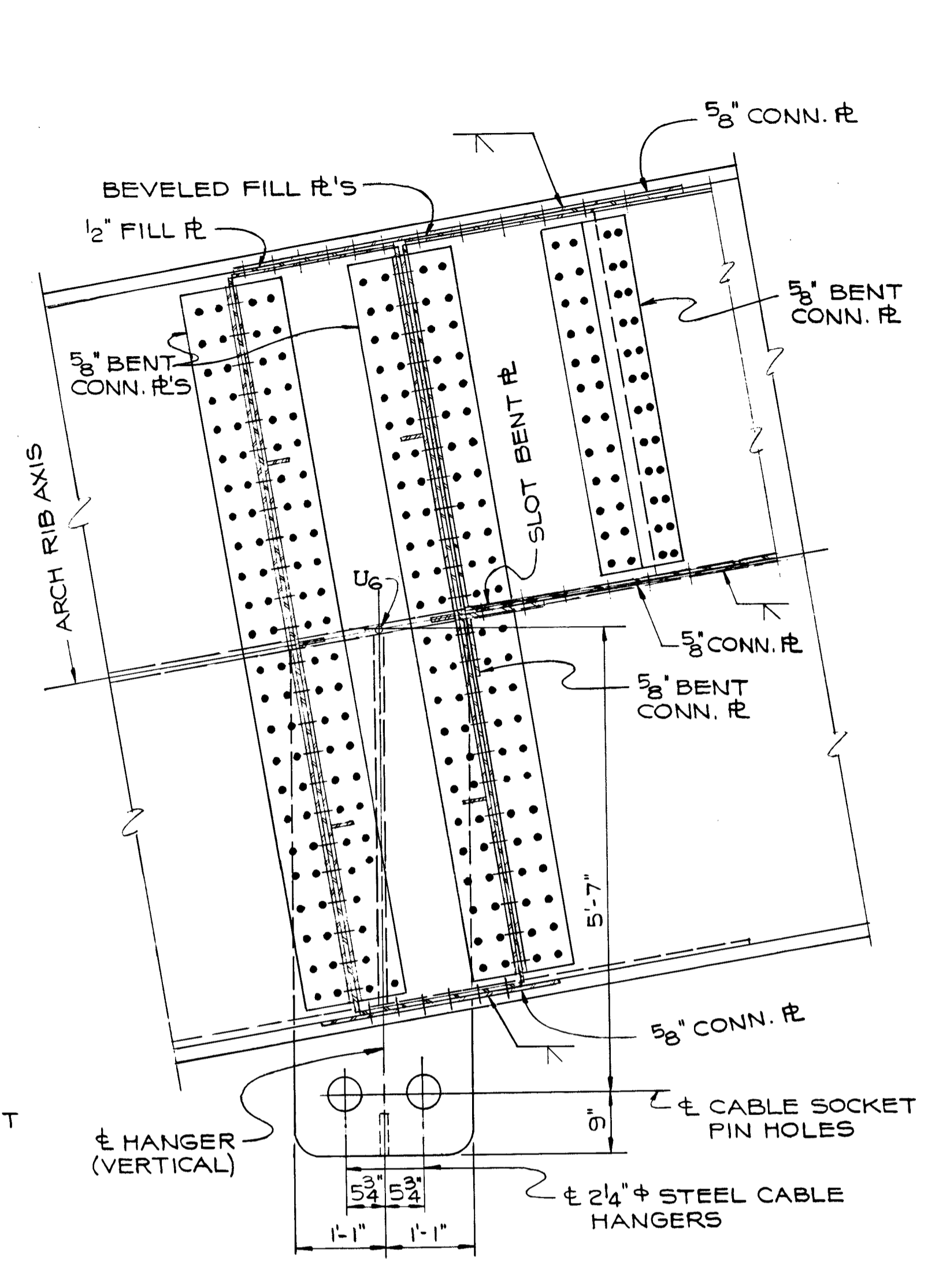
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	37
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



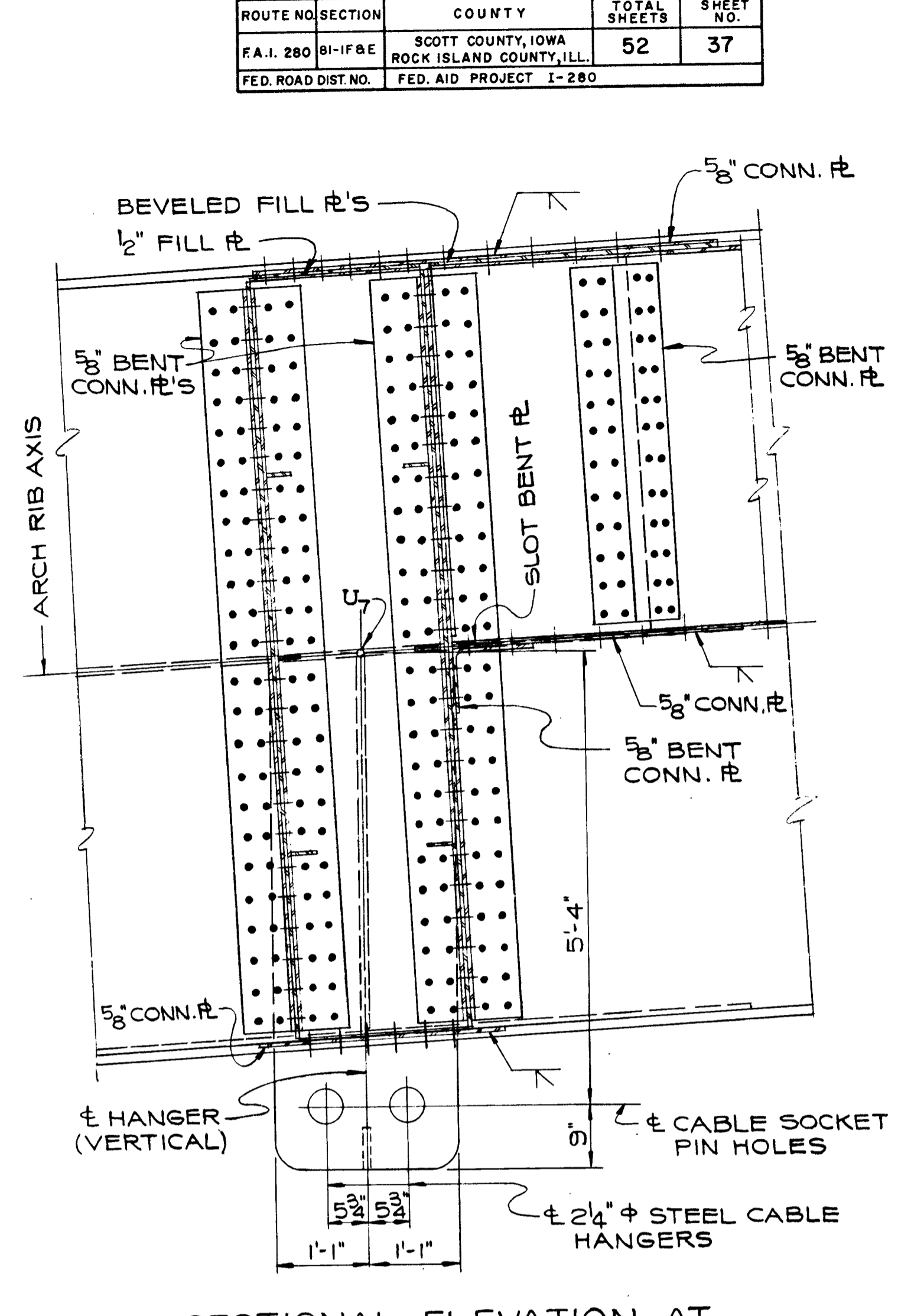
SECTIONAL ELEVATION AT  
PANEL POINT U4  
SCALE: 3/4" = 1'-0"



SECTIONAL ELEVATION AT  
PANEL POINT U5  
SCALE: 3/4" = 1'-0"



SECTIONAL ELEVATION AT  
PANEL POINT U6  
SCALE: 3/4" = 1'-0"



SECTIONAL ELEVATION AT  
PANEL POINT U7  
SCALE: 3/4" = 1'-0"

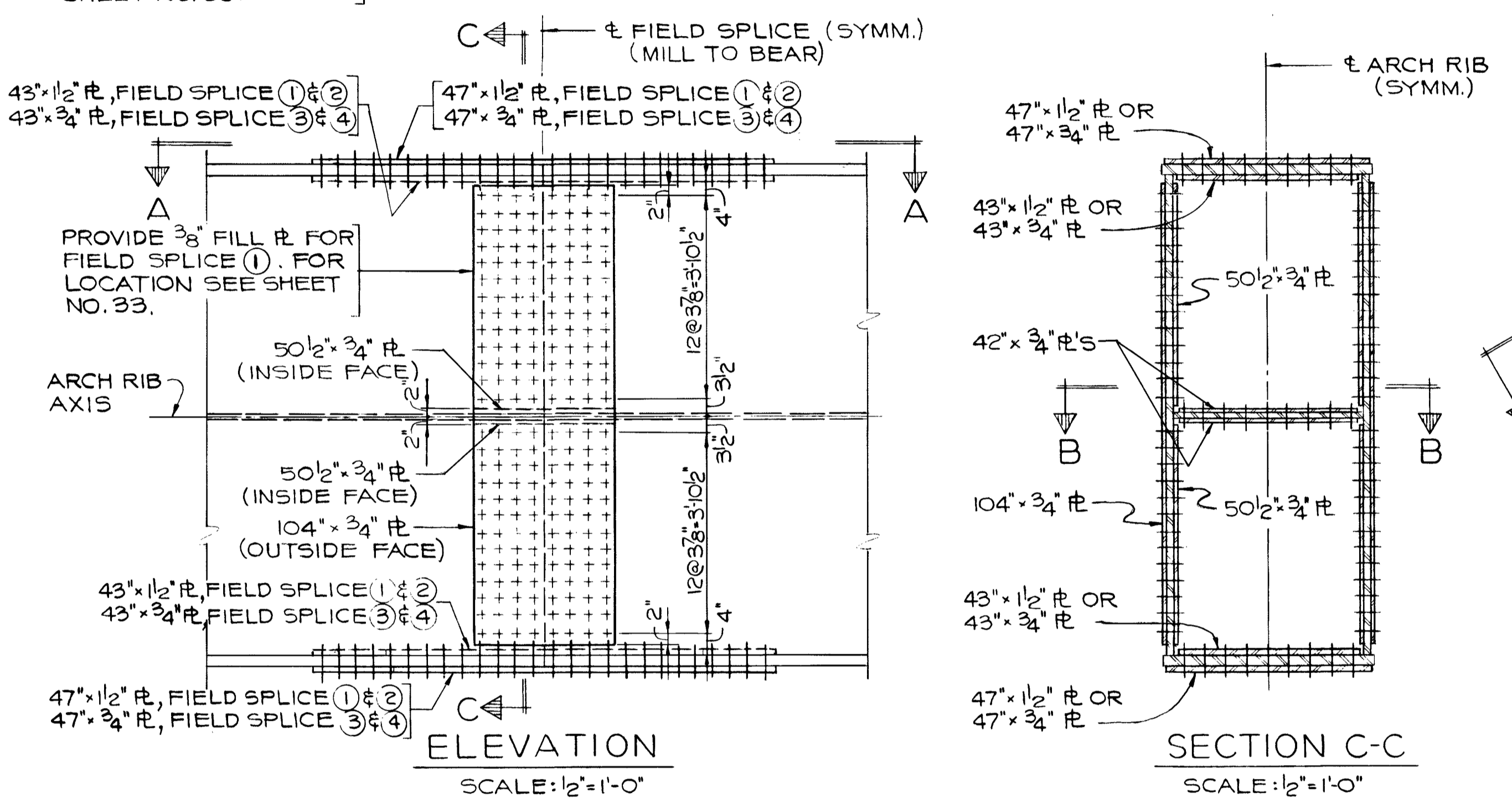
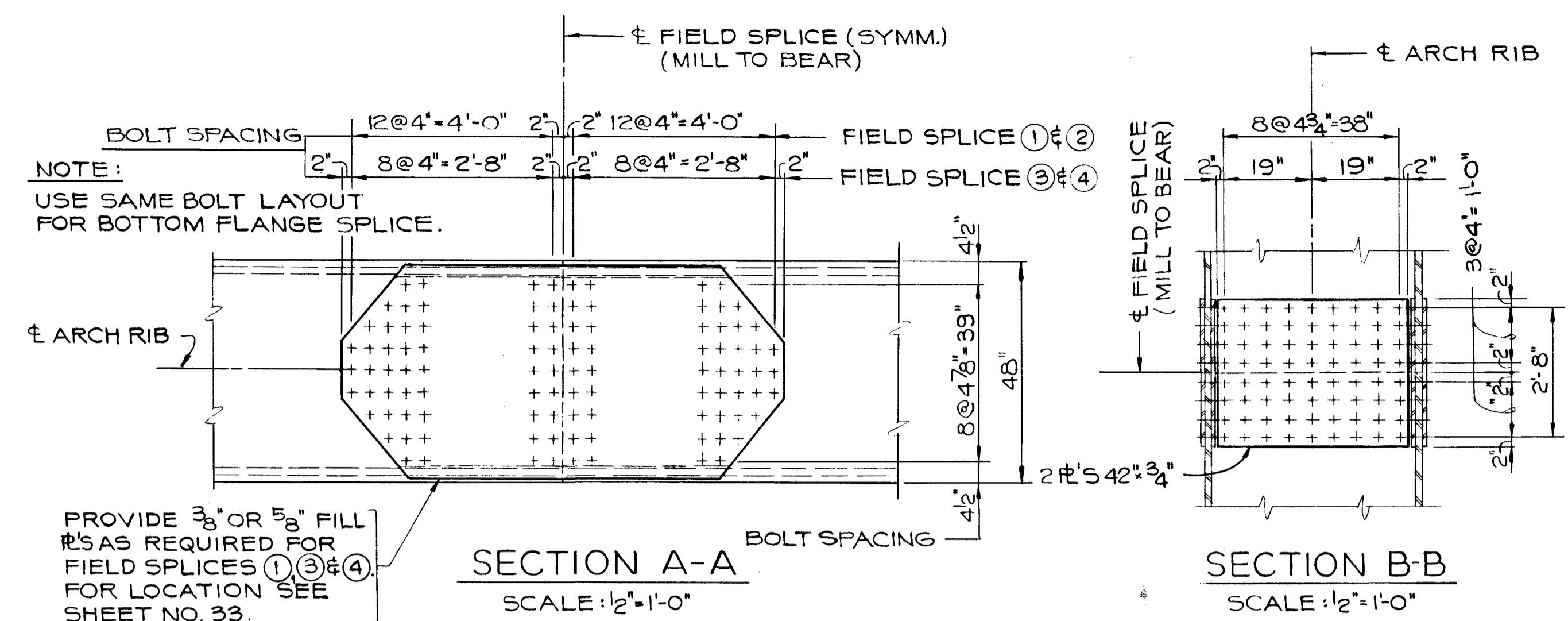
**NOTE:**  
 THE TOP LATERAL CONNECTION PLATES WHICH ARE WELDED TO THE ARCH RIB SHALL BE A.S.T.M.-A588. ALL OTHER CONNECTION PLATES AND FILL PLATES SHALL BE A.S.T.M.-A36.  
 ALL FASTENERS FOR TOP LATERAL BRACING CONNECTIONS SHALL BE 7/8"  $\phi$ , A325 HIGH STRENGTH BOLTS.  
 FOR TYPICAL ARCH RIB HANGER CONNECTION DETAILS SEE SHEET NO. 38.  
 FOR TOP LATERAL BRACING DETAILS SEE SHEETS NO. 39 & 40.  
 FOR ADDITIONAL DETAILS & NOTES SEE SHEET NO. 33.  
 FOR ARCH RIB RAILING DETAILS SEE SHEET NO. 52.

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W. J. ZAPFEL  
 DRAWN BY P. POPOVIC  
 CHECKED W. J. ZAPFEL  
 IN CHARGE W. J. ZAPFEL  
 APPROVED W. G. HORN

ARCH RIB DETAILS  
 PANEL POINTS U4, U5, U6 AND U7  
 F.A.I. ROUTE 280 SECTION 81-IF&E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

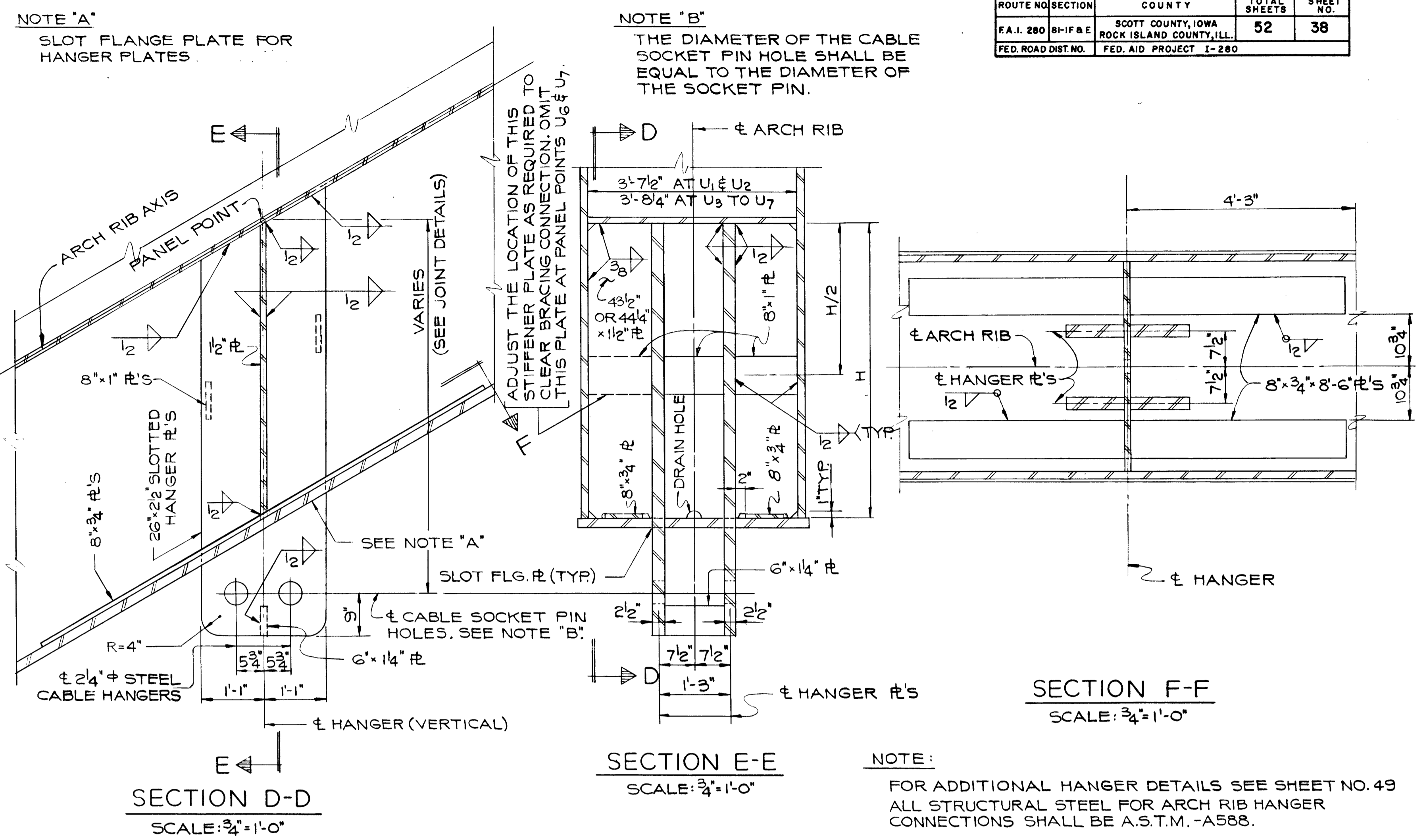


ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	38
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		

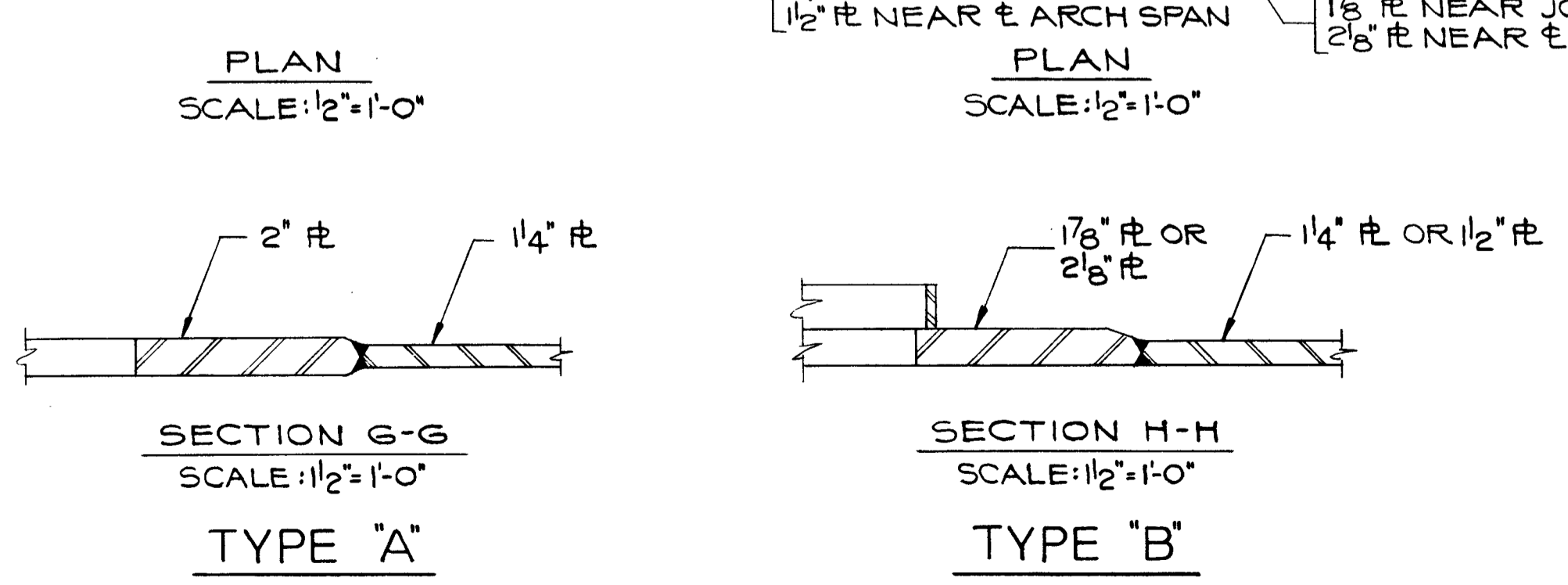
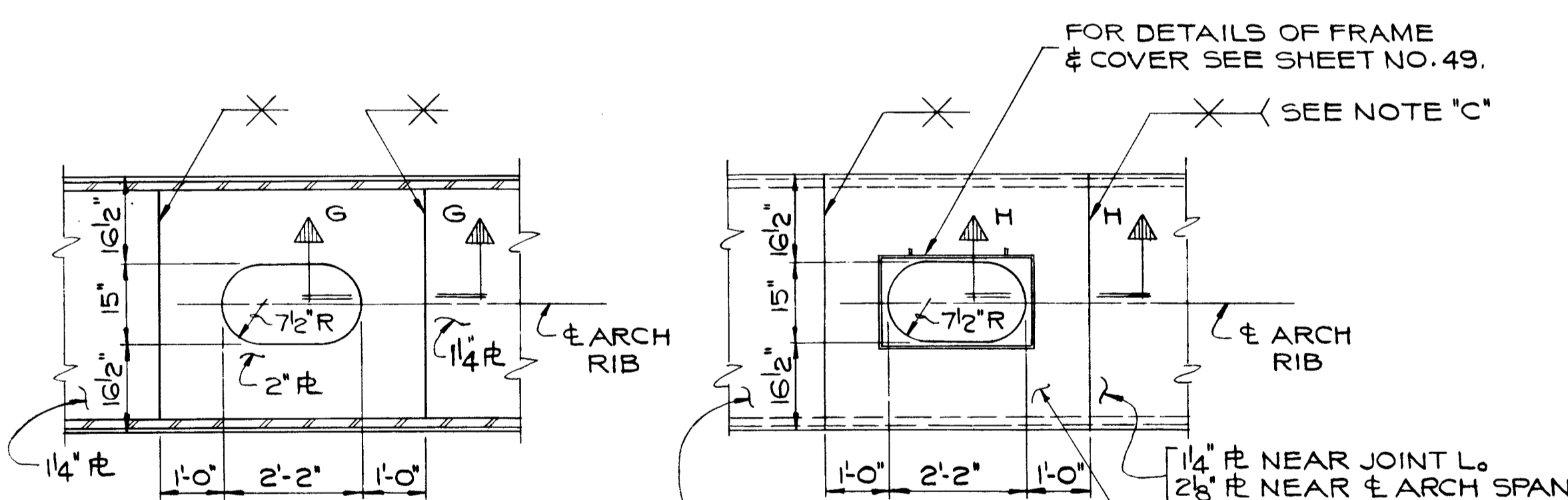


**ARCH RIB FIELD SPLICE DETAILS**  
(FIELD SPLICE ①, ②, ③ & ④)

**NOTE:**  
ALL STRUCTURAL STEEL FOR ARCH RIB FIELD SPLICES SHALL BE A.S.T.M. - A588.  
ALL FASTENERS SHALL BE 1/2" A.S.T.M. - A325 HIGH STRENGTH BOLTS WITH 13/16" OPEN HOLES.



**TYPICAL ARCH RIB HANGER CONNECTION DETAILS**



**ARCH RIB ACCESS OPENING DETAILS**

**NOTE "C"**  
THIS SPLICE REQUIRED FOR THE ACCESS OPENING LOCATED NEAR PANEL POINT L<sub>0</sub> ONLY. NO SPLICE PERMITTED IN THE 26" FLANGE PLATE LOCATED NEAR THE C OF THE ARCH SPAN.

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY P. POPOVIC  
CHECKED W.J. ZAPFEL  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

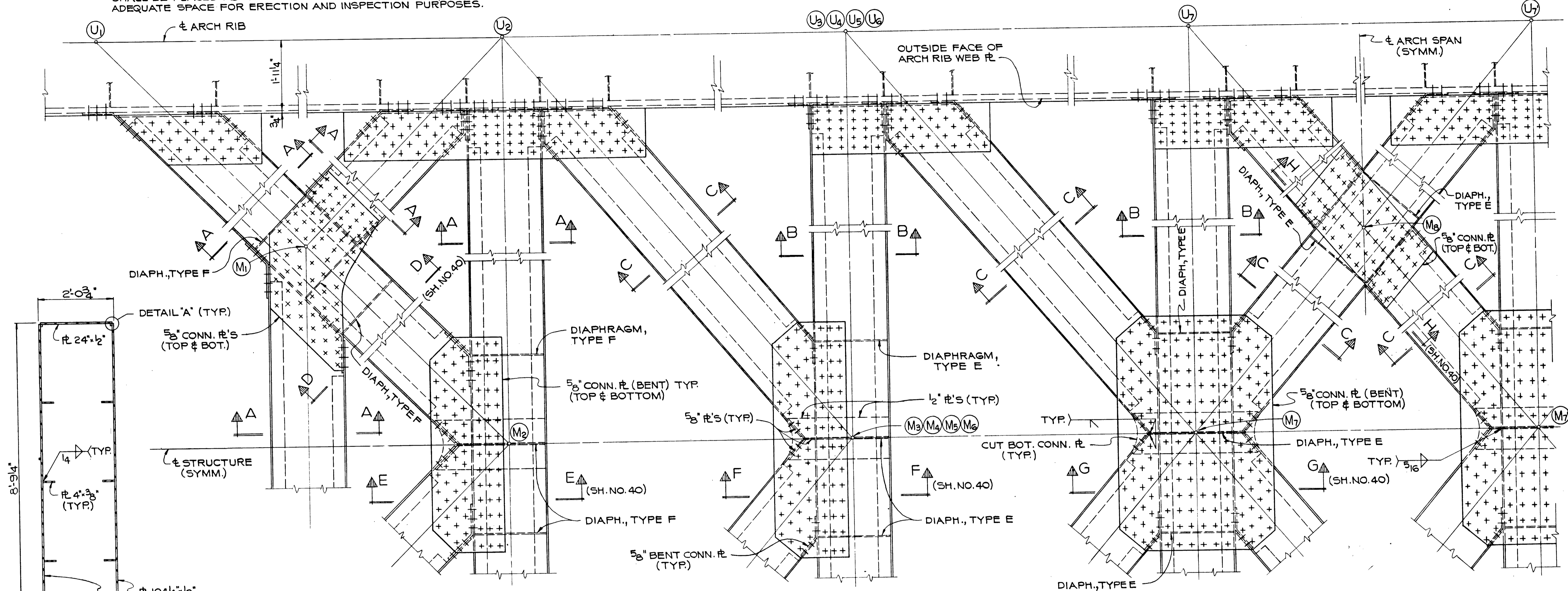
**ARCH RIB DETAILS**  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	39
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		

**DIAPHRAGM NOTE :**

DIAPHRAGMS SHALL BE PLACED AT THE LATERAL INTERSECTIONS AS SHOWN. THE NUMBER OF EQUAL DIAPHRAGM SPACES REQUIRED FOR EACH MEMBER SHALL BE AS SHOWN IN THE ACCOMPANYING TABLE. THE FIRST DIAPHRAGM ADJACENT TO THE END CONNECTION SHALL BE PLACED AS NEAR TO THE END AS PRACTICAL, ALLOWING ADEQUATE SPACE FOR ERECTION AND INSPECTION PURPOSES.

MEMBER	U <sub>1</sub> M <sub>1</sub>	M <sub>1</sub> M <sub>2</sub>	M <sub>1</sub> U <sub>2</sub>	M <sub>1</sub> M <sub>1</sub>	U <sub>2</sub> M <sub>2</sub>	U <sub>3</sub> M <sub>3</sub>	U <sub>4</sub> M <sub>4</sub>	U <sub>5</sub> M <sub>5</sub>	U <sub>6</sub> M <sub>6</sub>	U <sub>7</sub> M <sub>7</sub>	U <sub>2</sub> M <sub>3</sub>	U <sub>3</sub> M <sub>4</sub>	U <sub>4</sub> M <sub>5</sub>	U <sub>5</sub> M <sub>6</sub>	U <sub>6</sub> M <sub>7</sub>	U <sub>7</sub> M <sub>6</sub>	M <sub>7</sub> M <sub>6</sub>
NUMBER OF EQUAL DIAPHRAGM SPACES	3	3	3	4	4	4	4	4	4	4	6	6	6	6	6	3	3

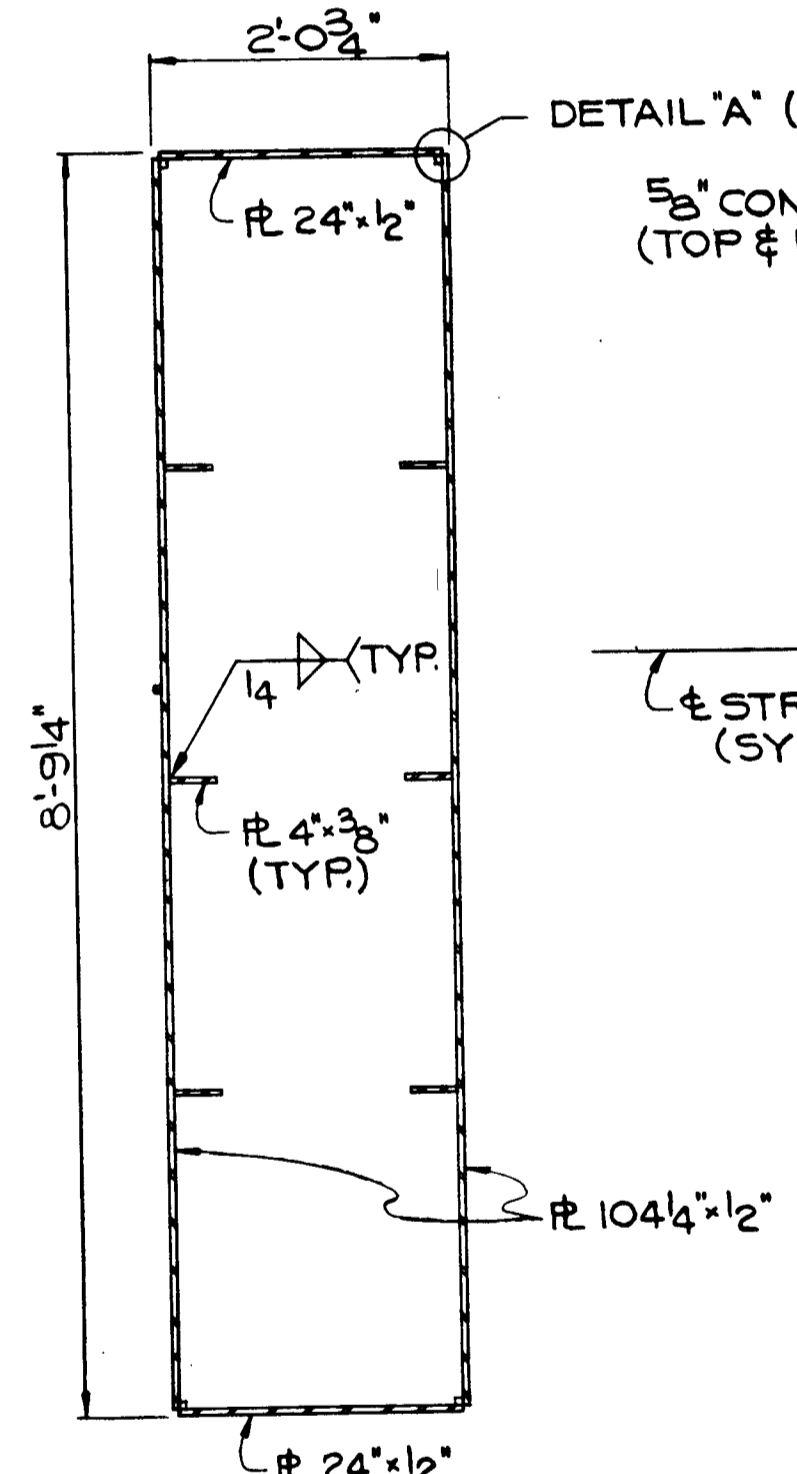


**LAYOUT OF TOP LATERAL BRACING**

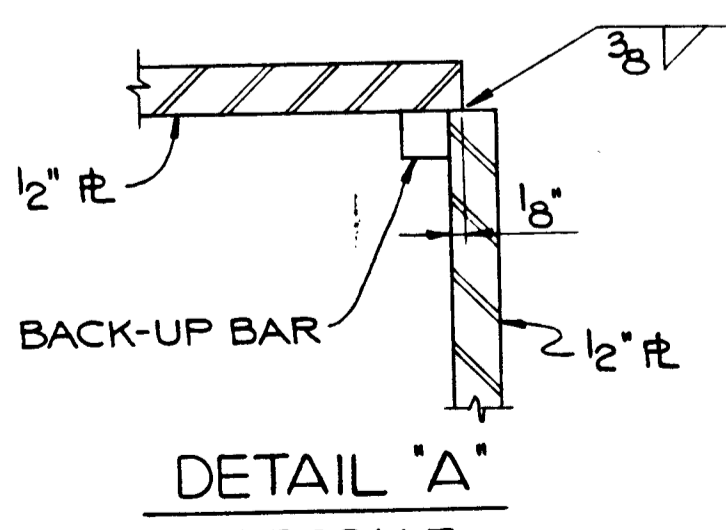
SCALE: 3/4" = 1'-0"

**NOTES :**

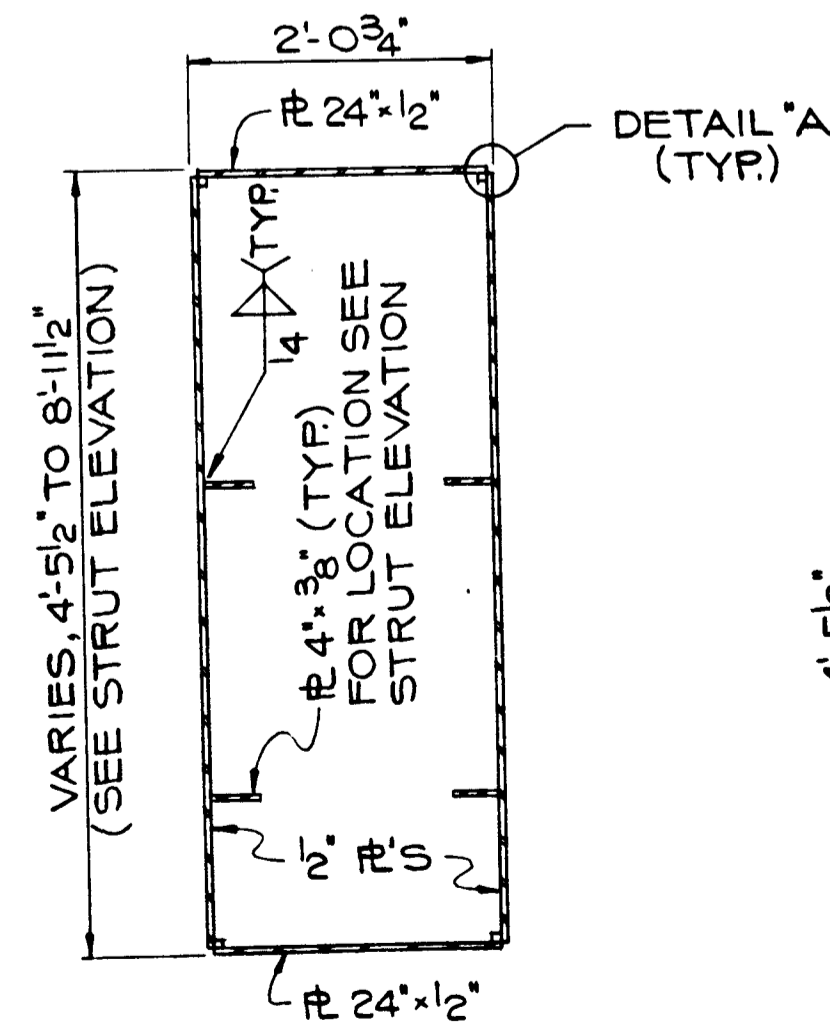
ALL STRUCTURAL STEEL FOR THE TOP LATERAL BRACING MEMBERS AND BOLTED CONNECTION PLATES SHALL BE A.S.T.M. - A36.  
 ALL FASTENERS SHALL BE 7/8" φ, HIGH STRENGTH BOLTS (A325).  
 ALL TOP LATERAL BRACING MEMBERS SHALL BE FABRICATED TO FIT THE FINAL GEOMETRIC PANEL LENGTHS OF THE ARCH RIB UNDER FULL DEAD LOAD AT 50° F.  
 FOR DETAILS AND LOCATIONS OF ACCESS COVERS SEE SHEET NO. 40.  
 FOR ADDITIONAL ARCH RIB JOINT DETAILS SEE SHEETS NO. 34 THRU 37.



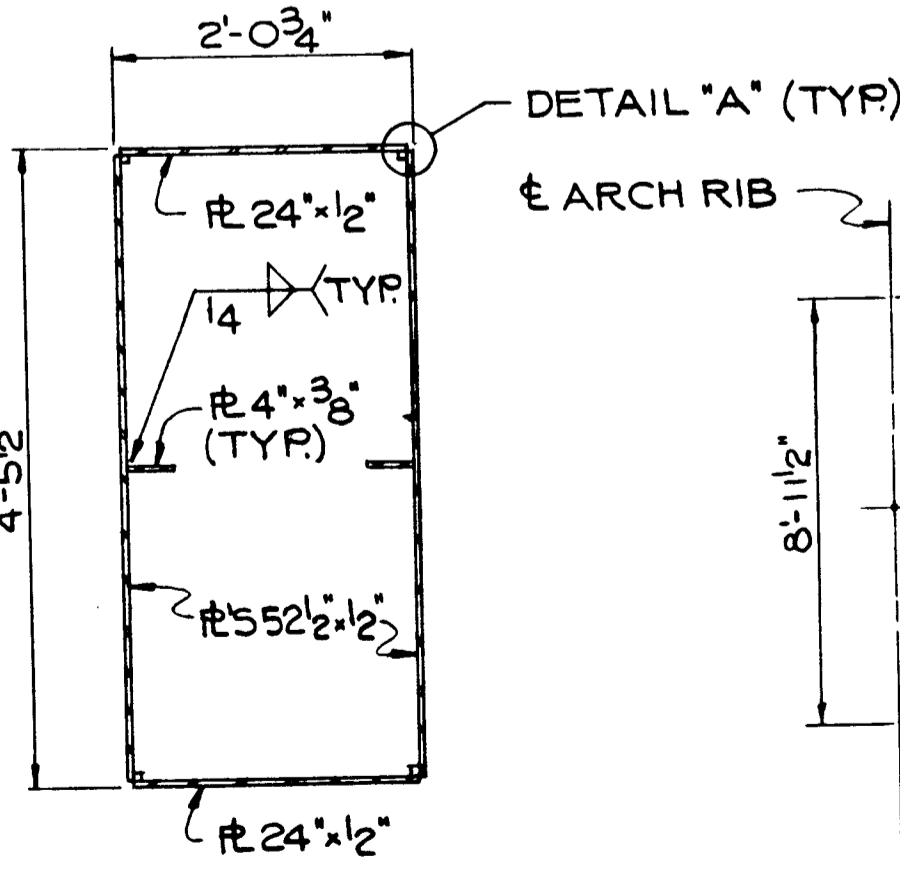
**SECTION A-A (PORTALS)**  
SCALE: 3/4" = 1'-0"



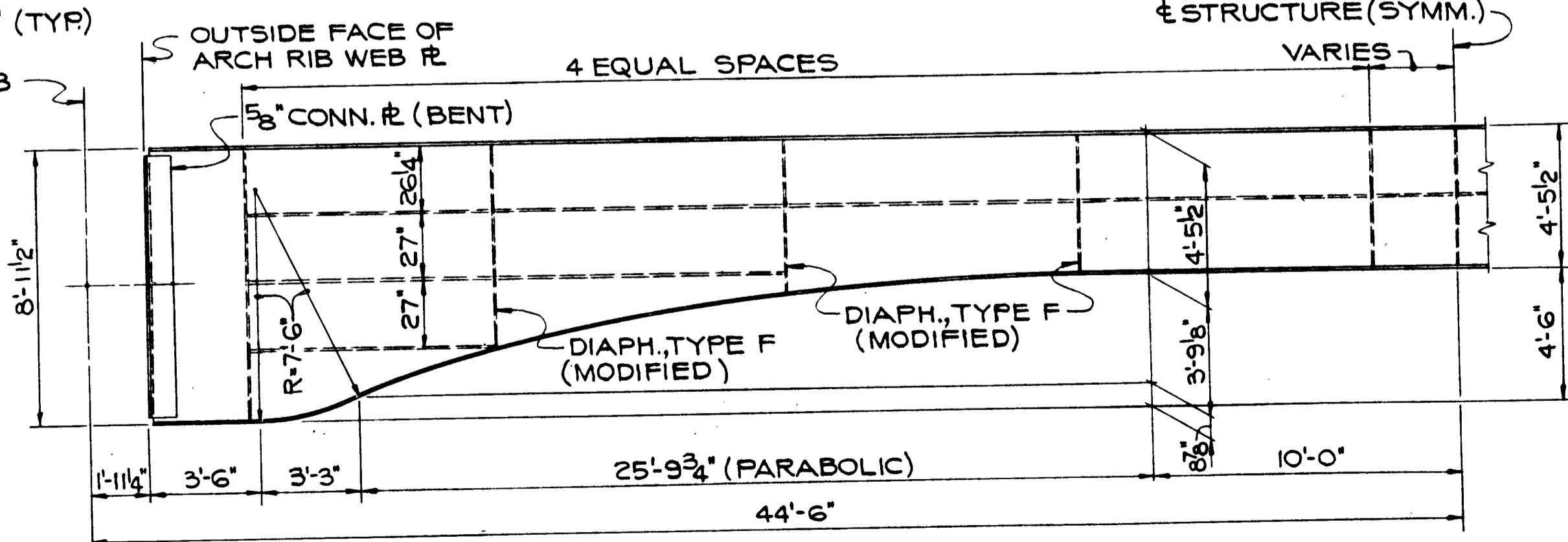
**DETAIL A' HALF SCALE**



**SECTION B-B (STRUTS)**  
SCALE: 3/4" = 1'-0"



**SECTION C-C (DIAGONALS)**  
SCALE: 3/4" = 1'-0"



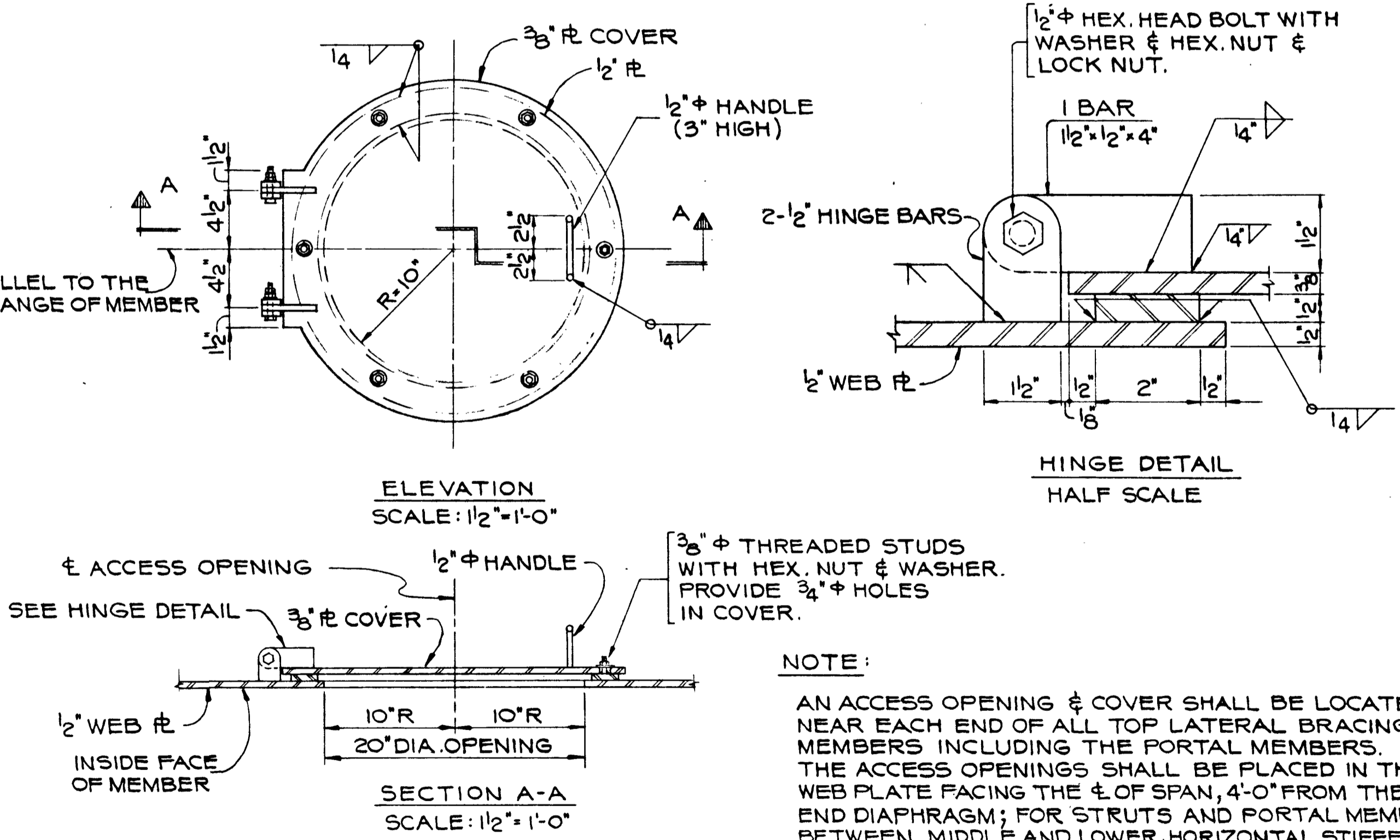
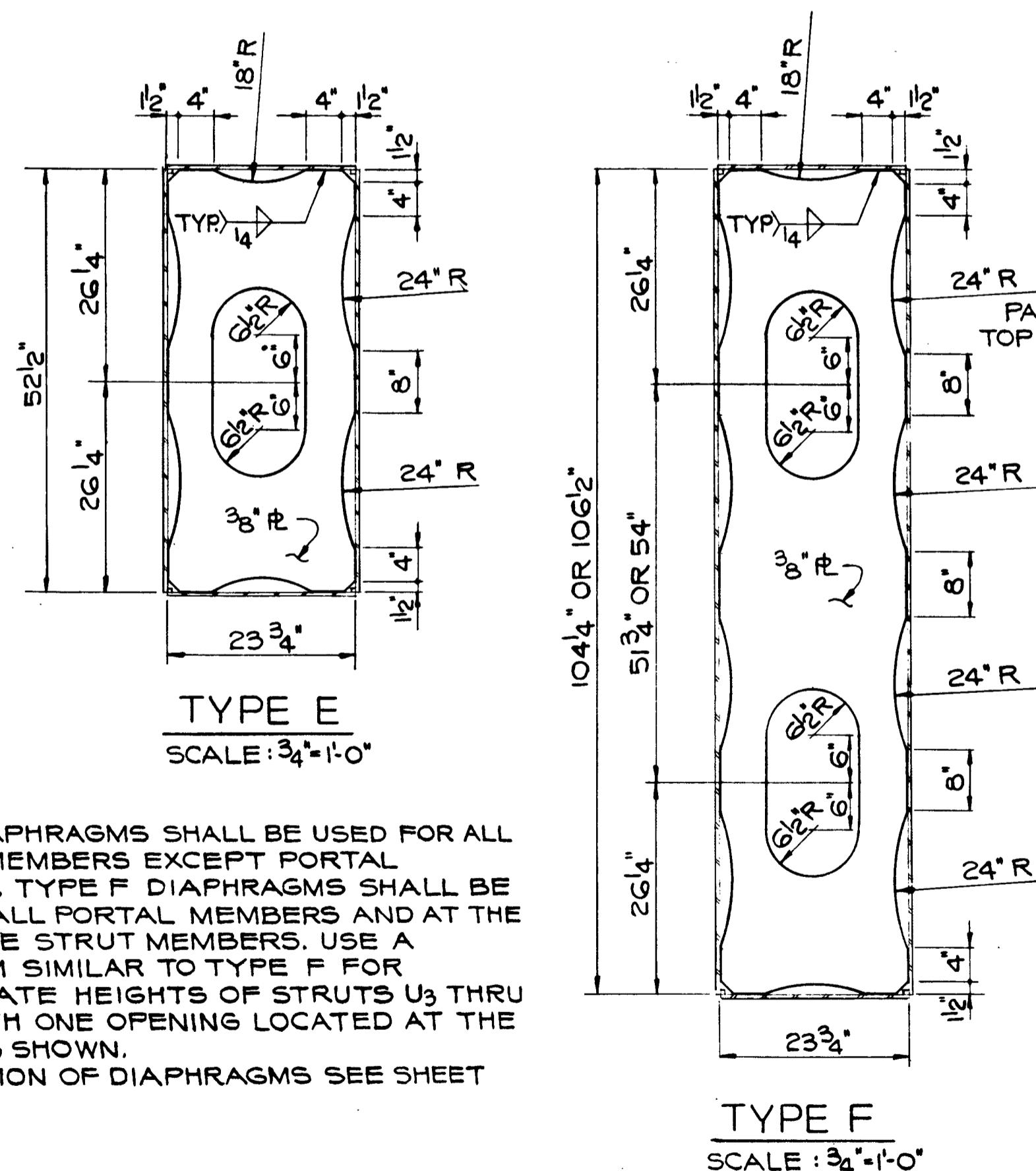
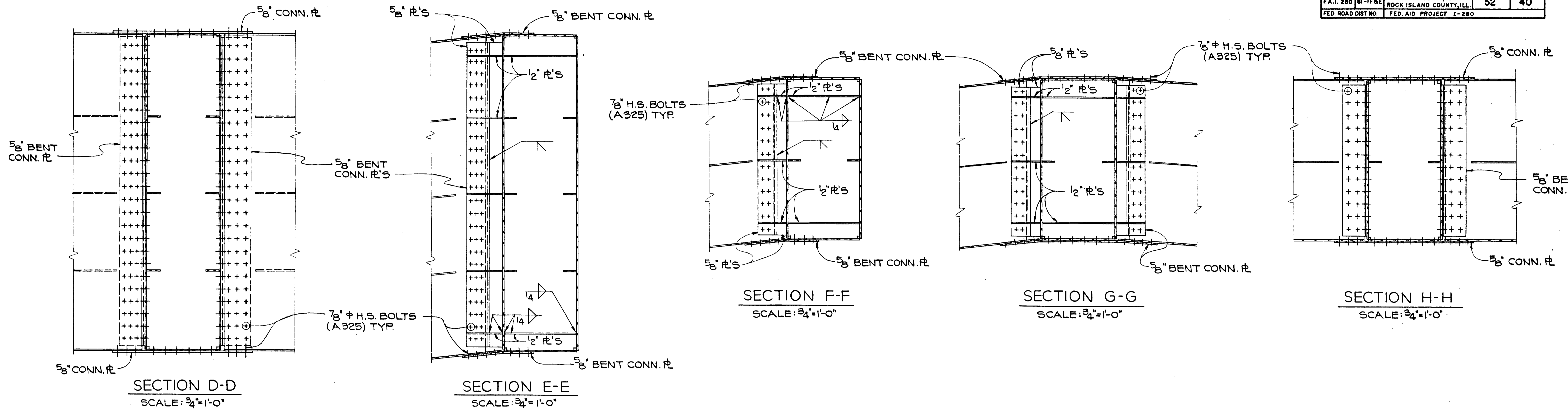
**STRUT ELEVATION (STRUTS U<sub>3</sub>, U<sub>4</sub>, U<sub>5</sub>, U<sub>6</sub> & U<sub>7</sub>)**  
SCALE: 1/4" = 1'-0"

**ARCH SPAN TOP LATERAL BRACING**  
 F.A.I. ROUTE 280 SECTION 81-IF&E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY P. POPOVIC  
 CHECKED BY W.J. ZAPFEL  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	40
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



NOTE:  
TYPE E DIAPHRAGMS SHALL BE USED FOR ALL DIAGONAL MEMBERS EXCEPT PORTAL DIAGONALS. TYPE F DIAPHRAGMS SHALL BE USED FOR ALL PORTAL MEMBERS AND AT THE ENDS OF THE STRUT MEMBERS. USE A DIAPHRAGM SIMILAR TO TYPE F FOR INTERMEDIATE HEIGHTS OF STRUTS U<sub>3</sub> THRU U<sub>7</sub> AND WITH ONE OPENING LOCATED AT THE BOTTOM AS SHOWN. FOR LOCATION OF DIAPHRAGMS SEE SHEET NO. 39.

NOTE:  
AN ACCESS OPENING & COVER SHALL BE LOCATED NEAR EACH END OF ALL TOP LATERAL BRACING MEMBERS INCLUDING THE PORTAL MEMBERS. THE ACCESS OPENINGS SHALL BE PLACED IN THE WEB PLATE FACING THE  $\phi$  OF SPAN, 4'-0" FROM THE END DIAPHRAGM; FOR STRUTS AND PORTAL MEMBERS BETWEEN MIDDLE AND LOWER HORIZONTAL STIFFENERS AND FOR DIAGONAL MEMBERS AT THE  $\phi$  OF THE MEMBER.

WORK THIS SHEET WITH SHEET NO. 39.

TOP LATERAL BRACING DIAPHRAGM DETAILS

ACCESS COVER DETAILS (TOP LATERAL BRACING)

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY P. POPOVIC  
CHECKED W.J. ZAPFEL  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

ARCH SPAN  
TOP LATERAL BRACING  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

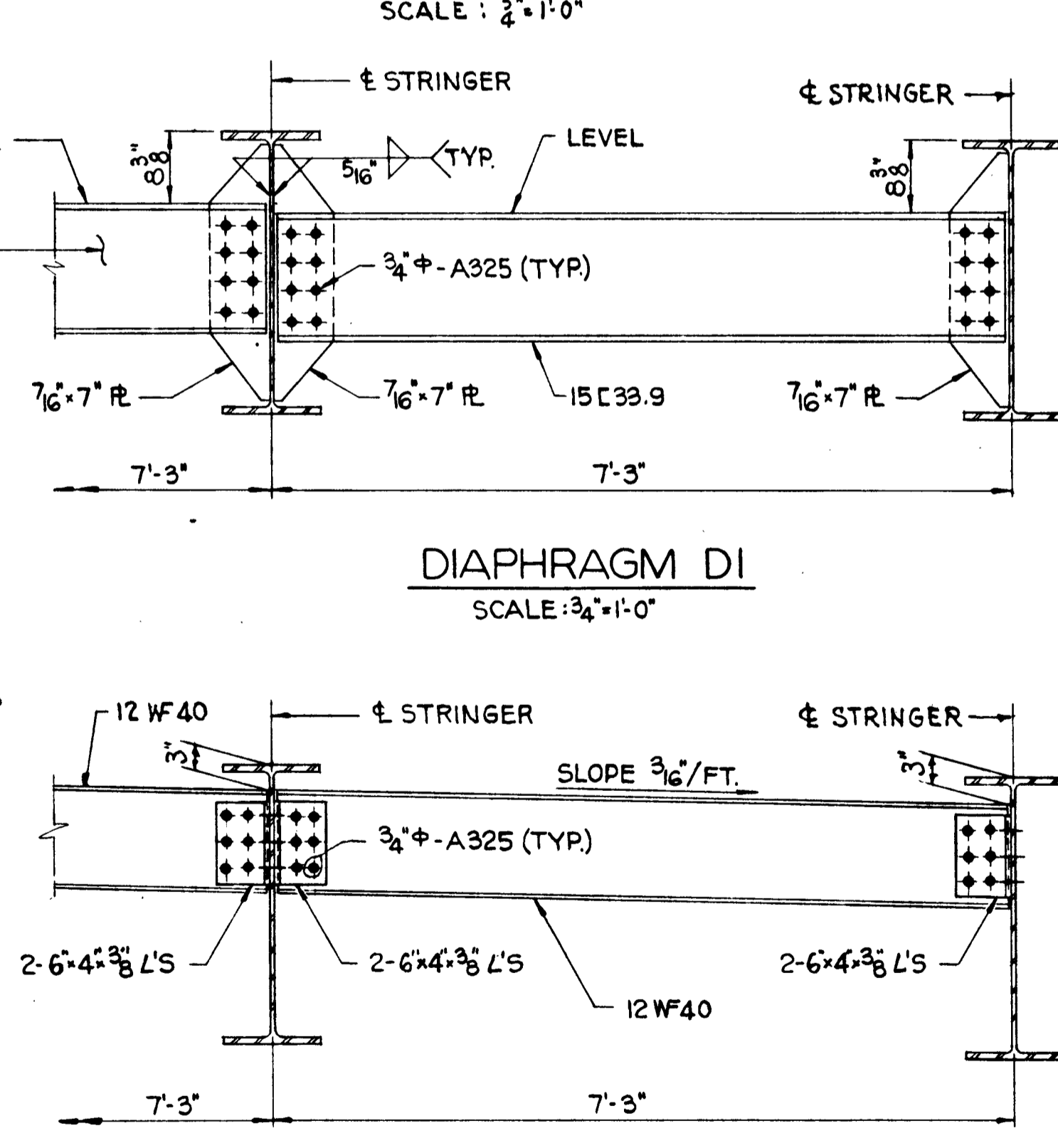
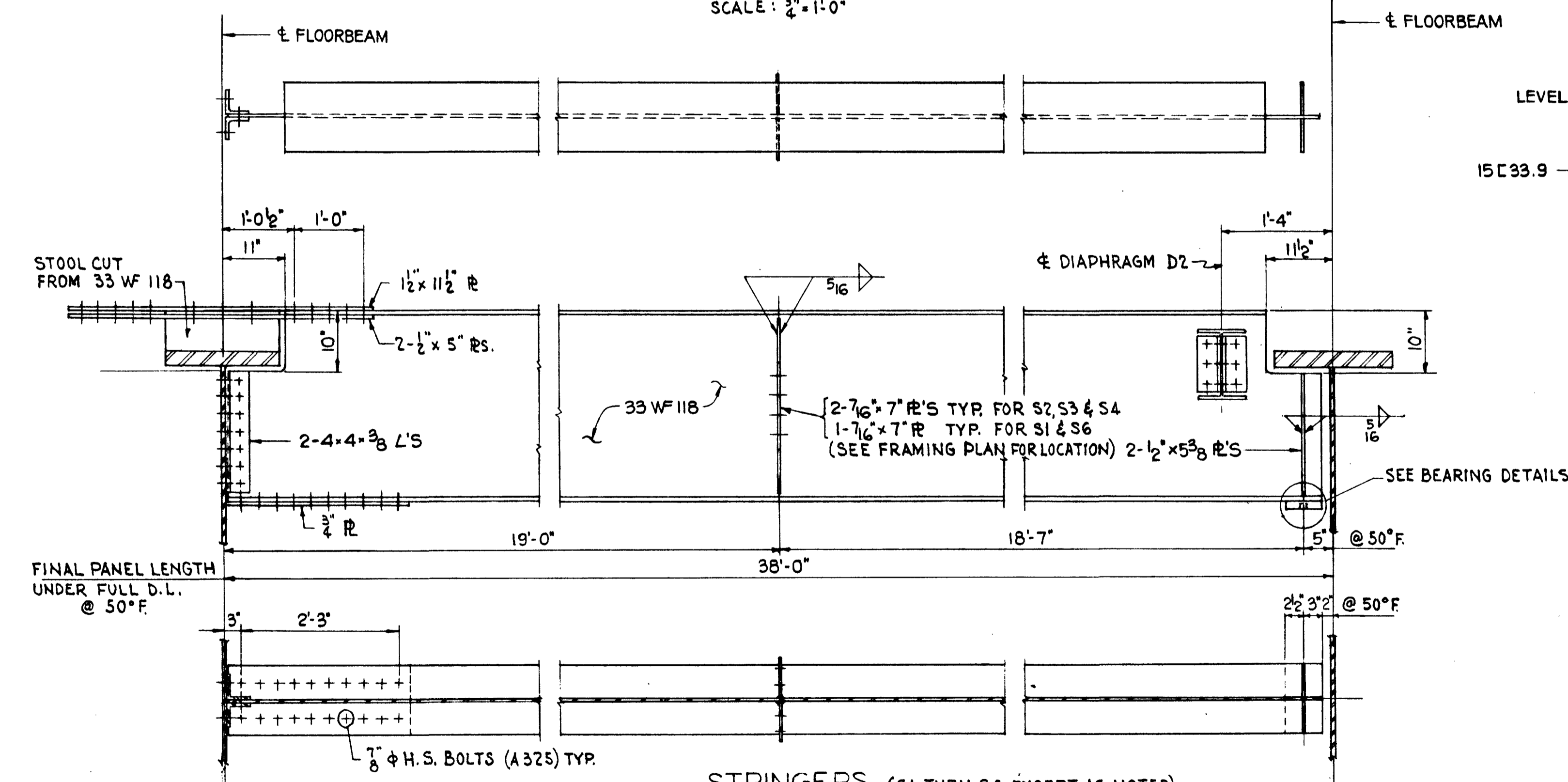
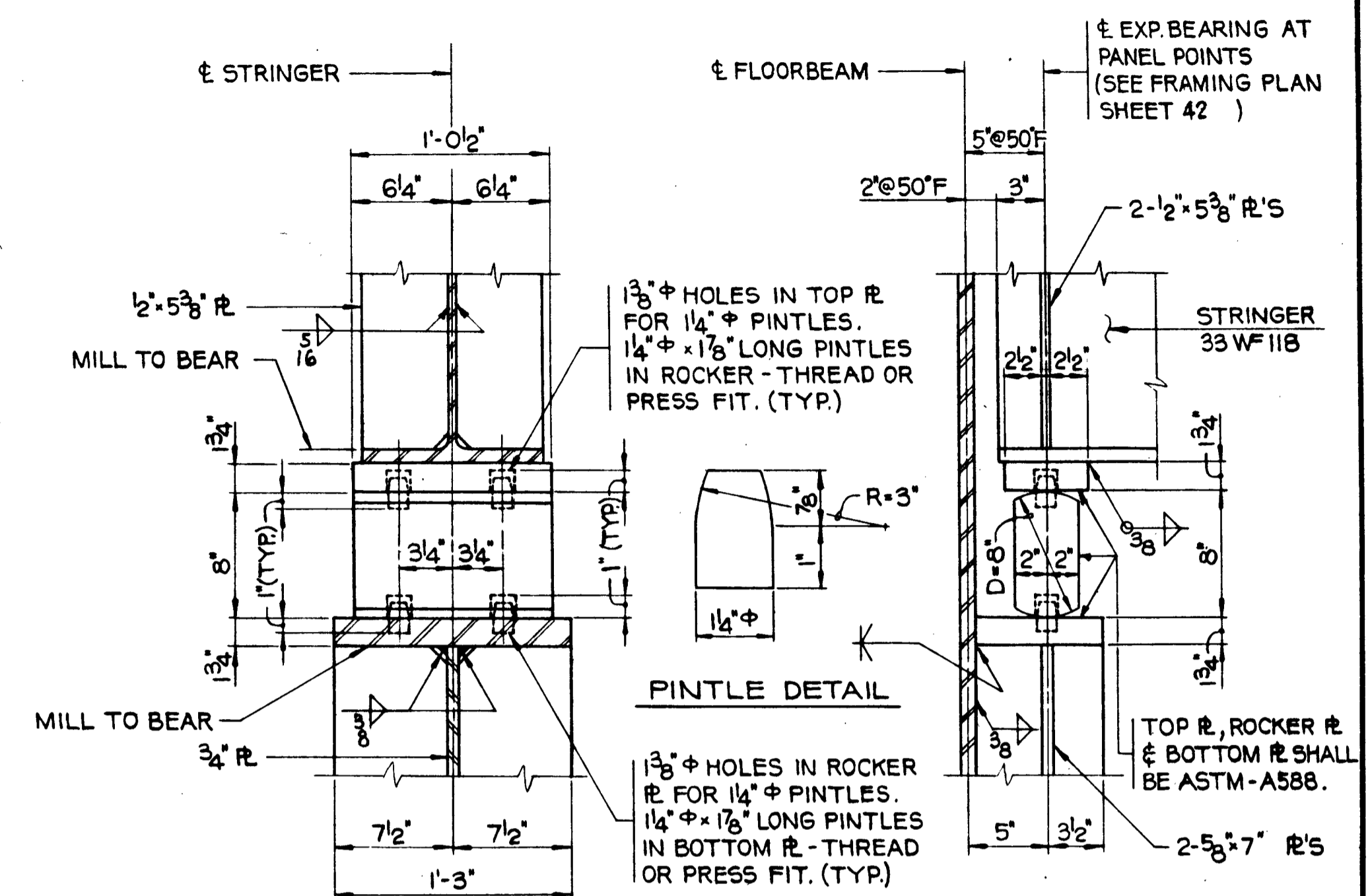
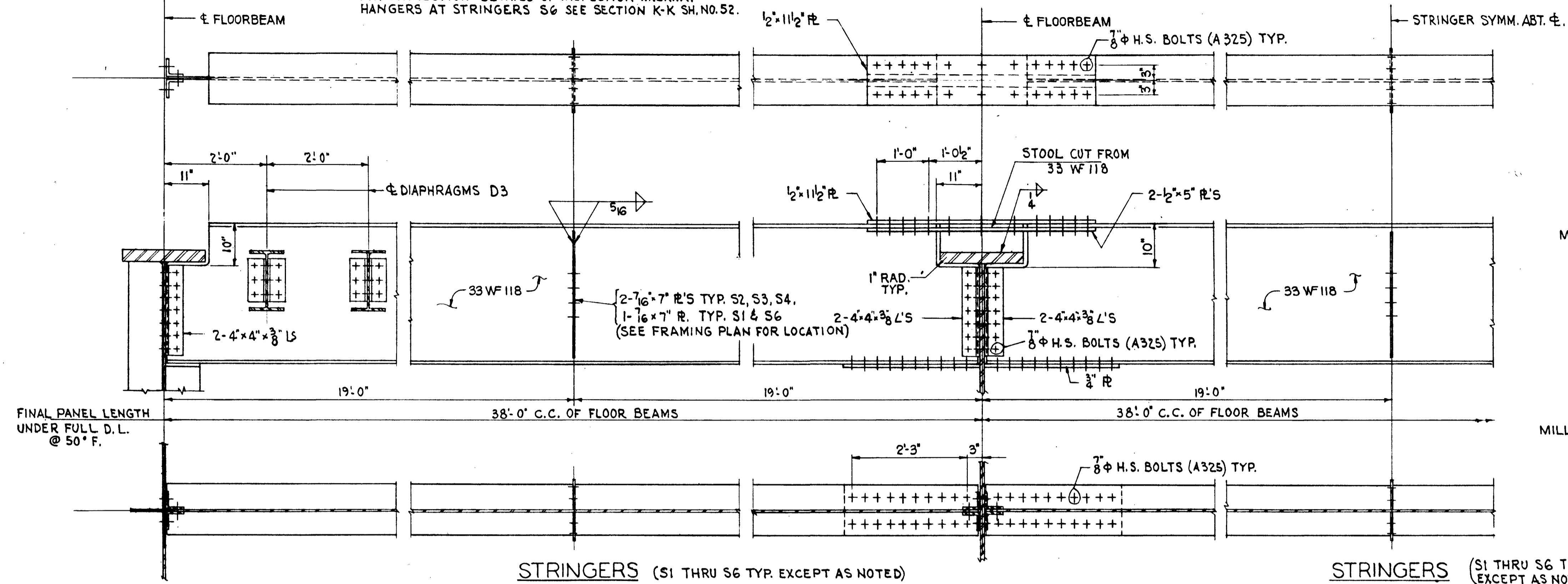






ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF & E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	43
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			

NOTE  
FOR CONNECTION DETAILS OF INSPECTION WALKWAY  
HANGERS AT STRINGERS SEE SECTION K-K SH. NO. 52.



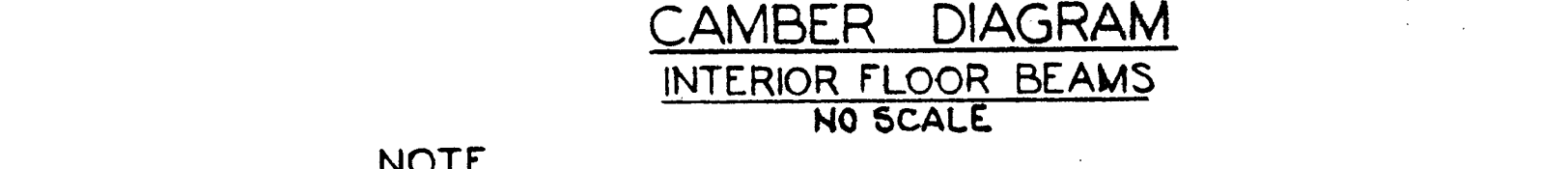
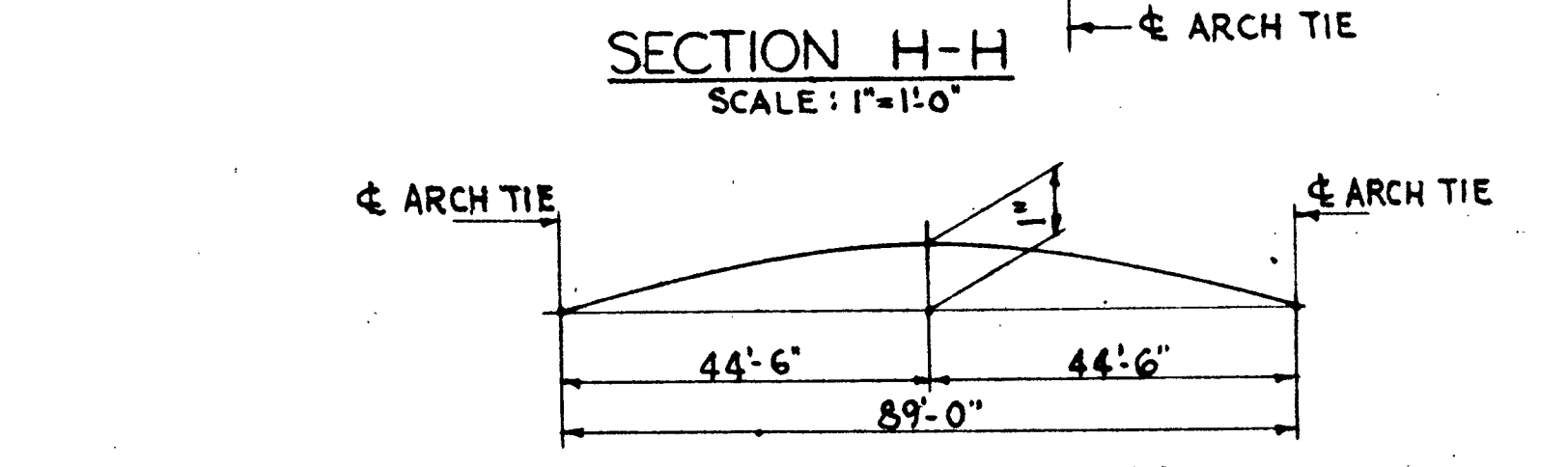
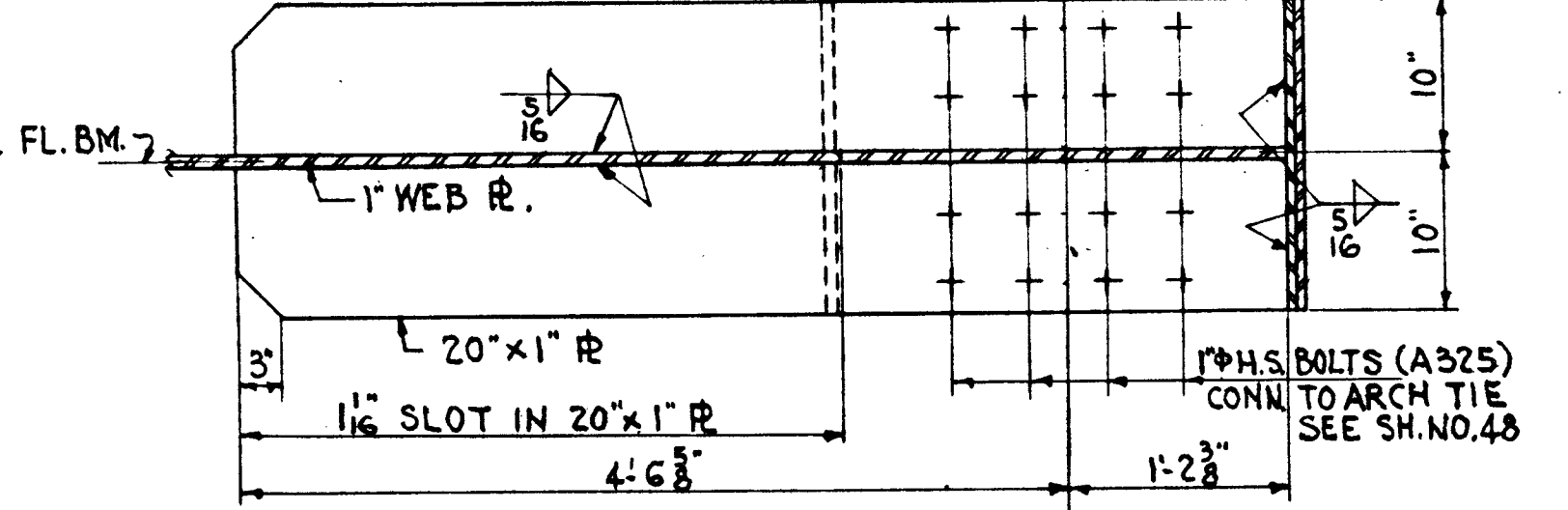
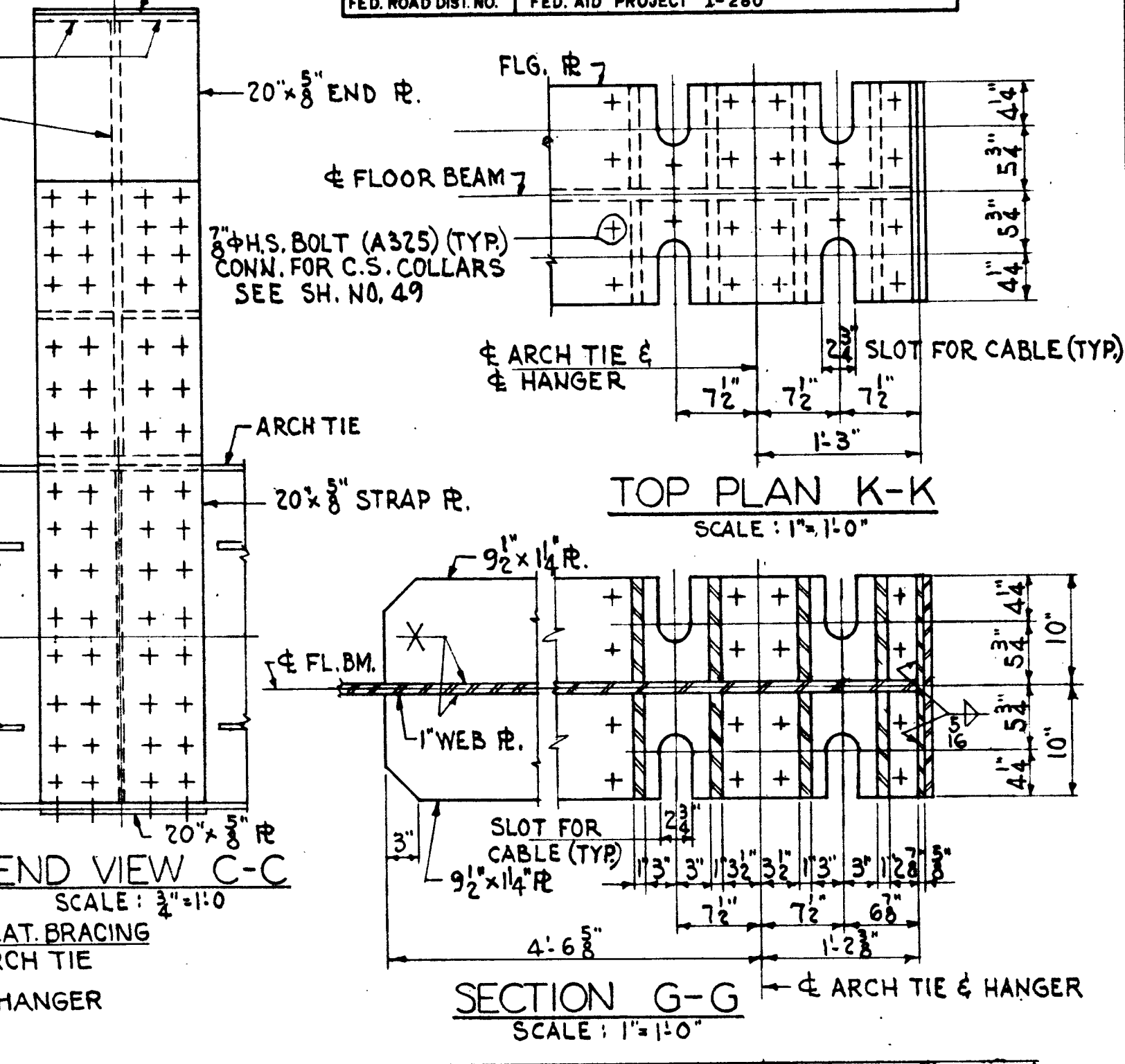
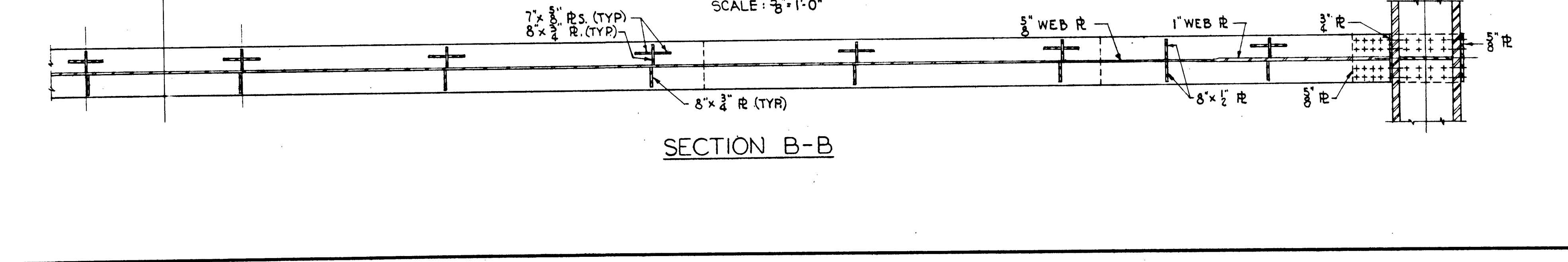
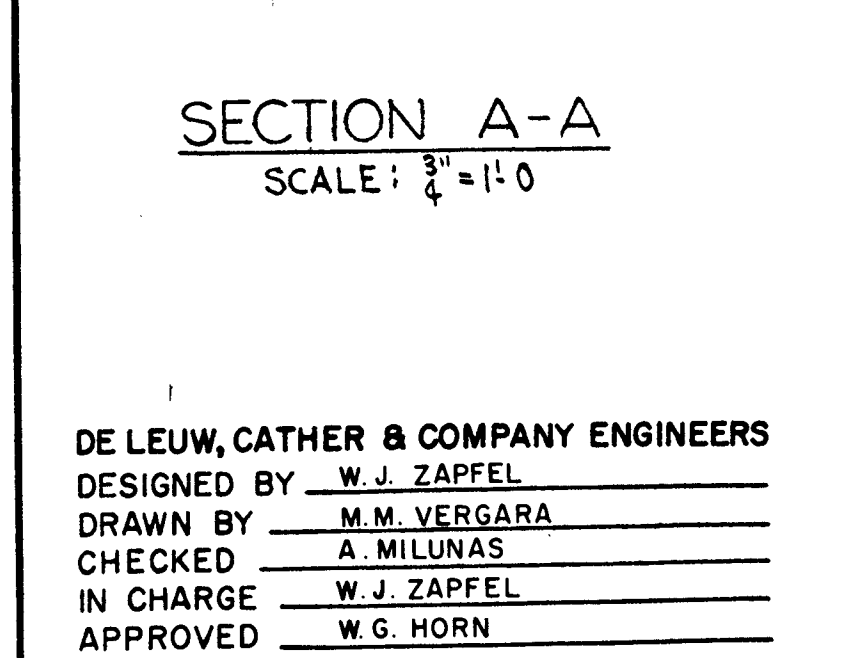
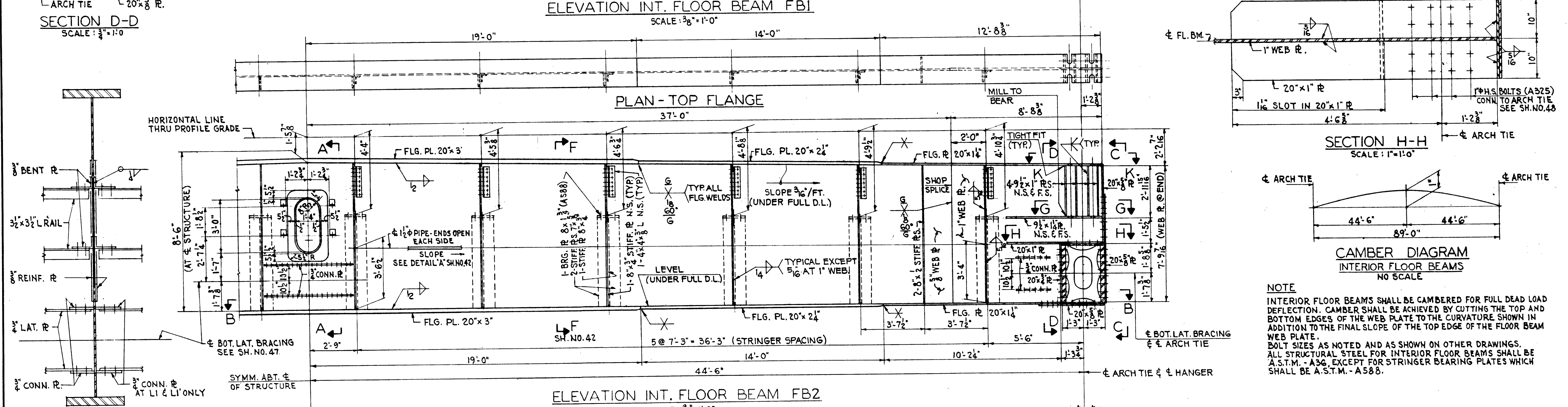
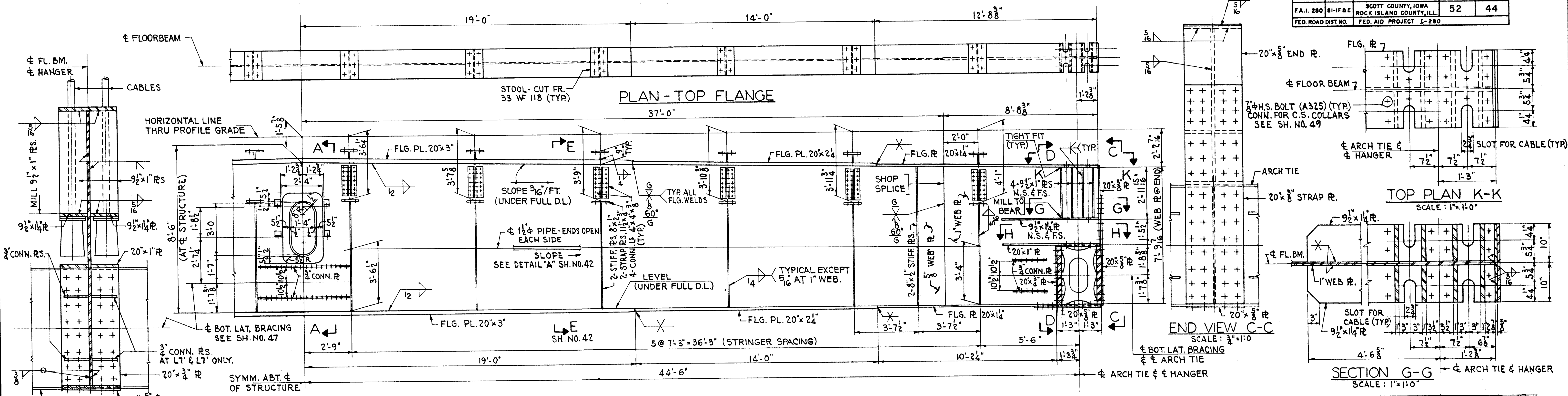
NOTE  
BOLT SIZES AS NOTED AND SHOWN ON OTHER DRAWINGS.  
ALL STRUCTURAL STEEL FOR STRINGERS SHALL BE ASTM A36 EXCEPT STRINGER EXPANSION BEARING ASSEMBLY SHALL BE ASTM A588. ALL STRINGERS SHALL BE FABRICATED TO FIT THE FINAL GEOMETRIC PANEL LENGTHS UNDER FULL DEAD LOAD @ 50°F. UNDERSIZE ERECTION BOLTS SHALL BE USED AS REQUIRED TO ACCOMMODATE THE ARCH TIE ELONGATION DUE TO THE DEAD LOAD OF STRUCTURAL STEEL. FINAL HIGH STRENGTH BOLTS SHALL NOT BE PLACED UNTIL ALL THE STRUCTURAL STEEL IS IN PLACE AND AFTER THE ARCH TIE IS CLOSED AND THE BLOCKING REMOVED.

ARCH SPAN STRINGERS  
F.A.I. ROUTE 280 SECTION 81-IF & E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

DELEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY W. J. ZAPFEL  
DRAWN BY M. M. VERGARA  
CHECKED A. MILUNAS  
IN CHARGE W. J. ZAPFEL  
APPROVED W. G. HORN



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.I. 280	81-IF 8 E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	44
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



**NOTE**  
 INTERIOR FLOOR BEAMS SHALL BE CAMBERED FOR FULL DEAD LOAD DEFLECTION. CAMBER SHALL BE ACHIEVED BY CUTTING THE TOP AND BOTTOM EDGES OF THE WEB PLATE TO THE CURVATURE SHOWN IN ADDITION TO THE FINAL SLOPE OF THE TOP EDGE OF THE FLOOR BEAM WEB PLATE.  
 BOLT SIZES AS NOTED AND AS SHOWN ON OTHER DRAWINGS.  
 ALL STRUCTURAL STEEL FOR INTERIOR FLOOR BEAMS SHALL BE A.S.T.M. - A36, EXCEPT FOR STRINGER BEARING PLATES WHICH SHALL BE A.S.T.M. - A588.

**ARCH SPAN  
 INTERIOR FLOOR BEAMS**  
 F.A.I. ROUTE 280 SECTION 81-IF 8 E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

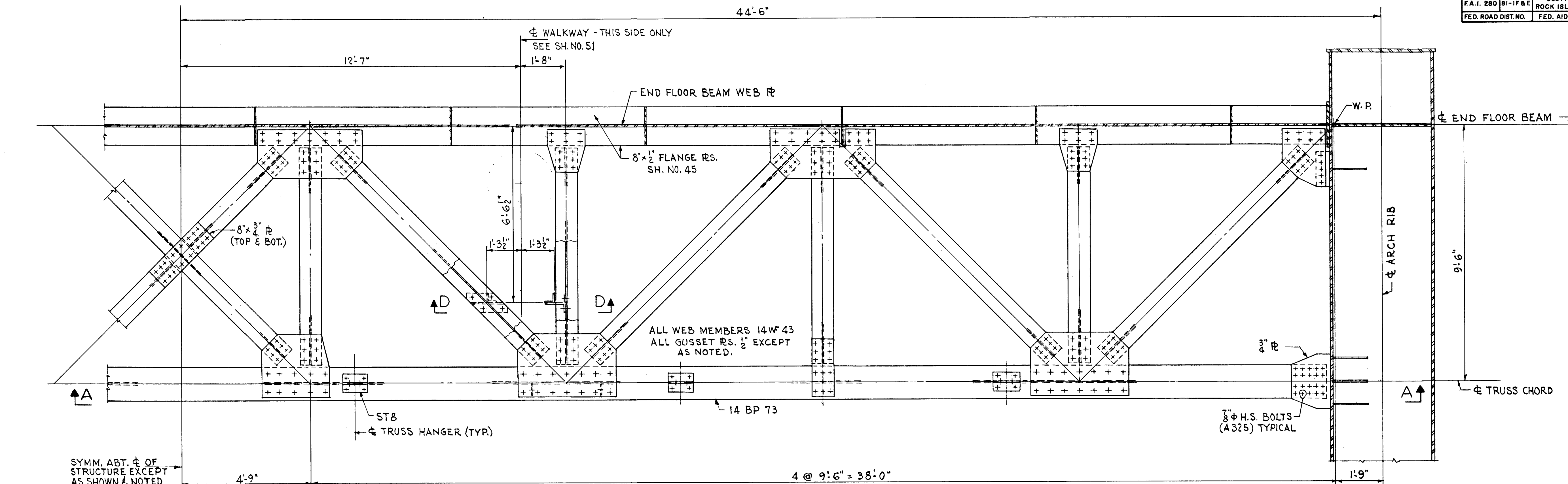
DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W. J. ZAPFEL  
 DRAWN BY M. M. VERGARA  
 CHECKED A. MILUNAS  
 IN CHARGE W. J. ZAPFEL  
 APPROVED W. G. HORN



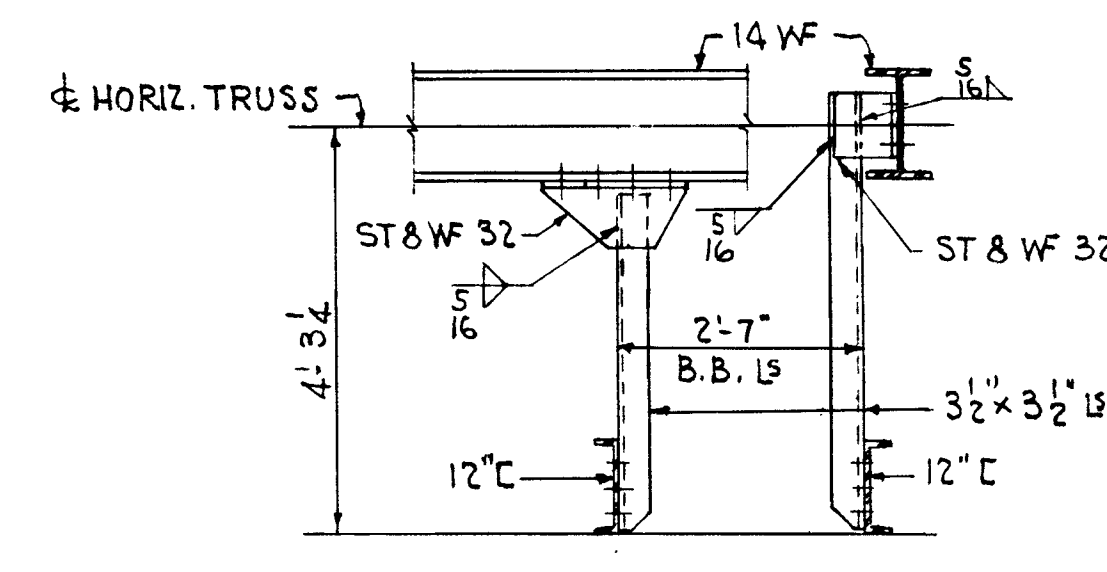




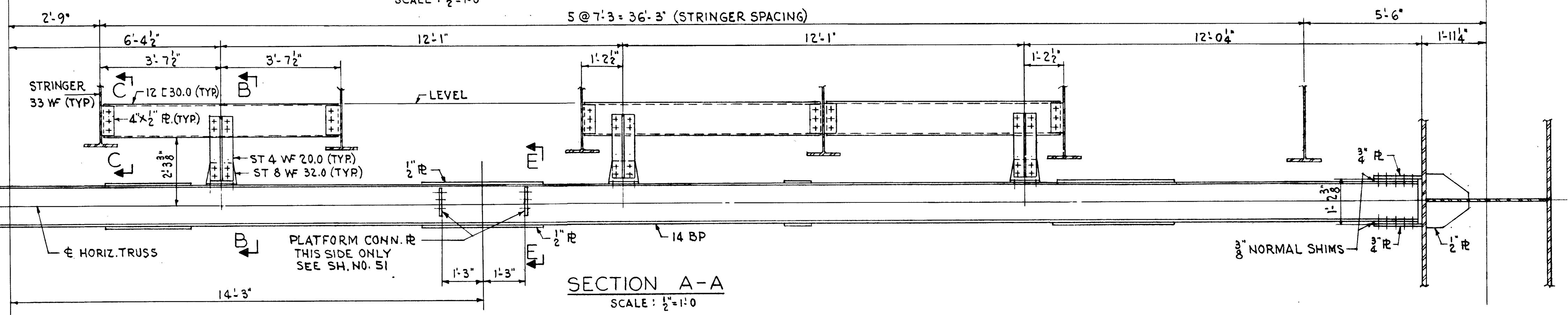
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	46
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



PLAN - HORIZONTAL TRUSS  
SCALE: 1/2" = 1'-0"

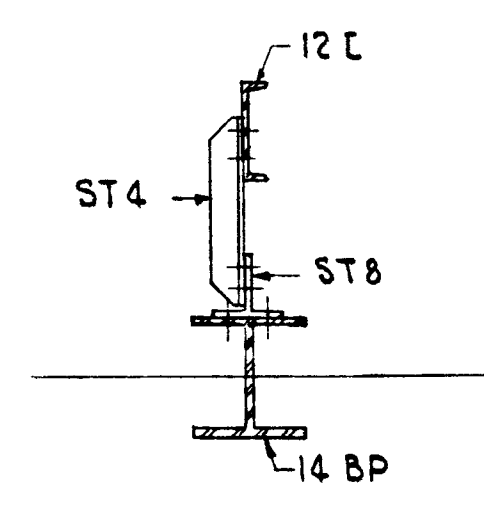


SECTION D-D  
SCALE: 1/2" = 1'-0"

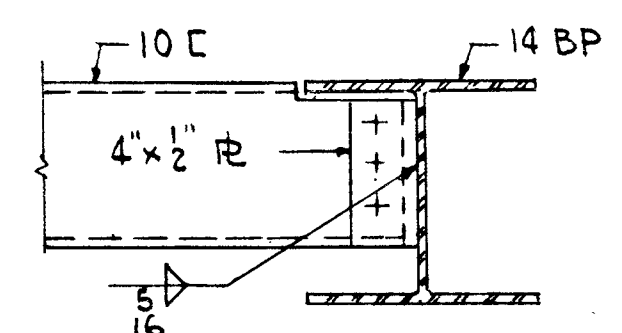


SECTION A-A  
SCALE: 1/2" = 1'-0"

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



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



SECTION E-E  
SCALE: 1" = 1'-0"

**NOTE**  
ALL STRUCTURAL STEEL SHALL BE A.S.T.M. - A36 UNLESS OTHERWISE NOTED.  
ALL BOLTS SHALL BE 3/8" H.S. (A325) UNLESS NOTED.  
FOR INSPECTION WALKWAY DETAILS SEE SH. NO. 51.

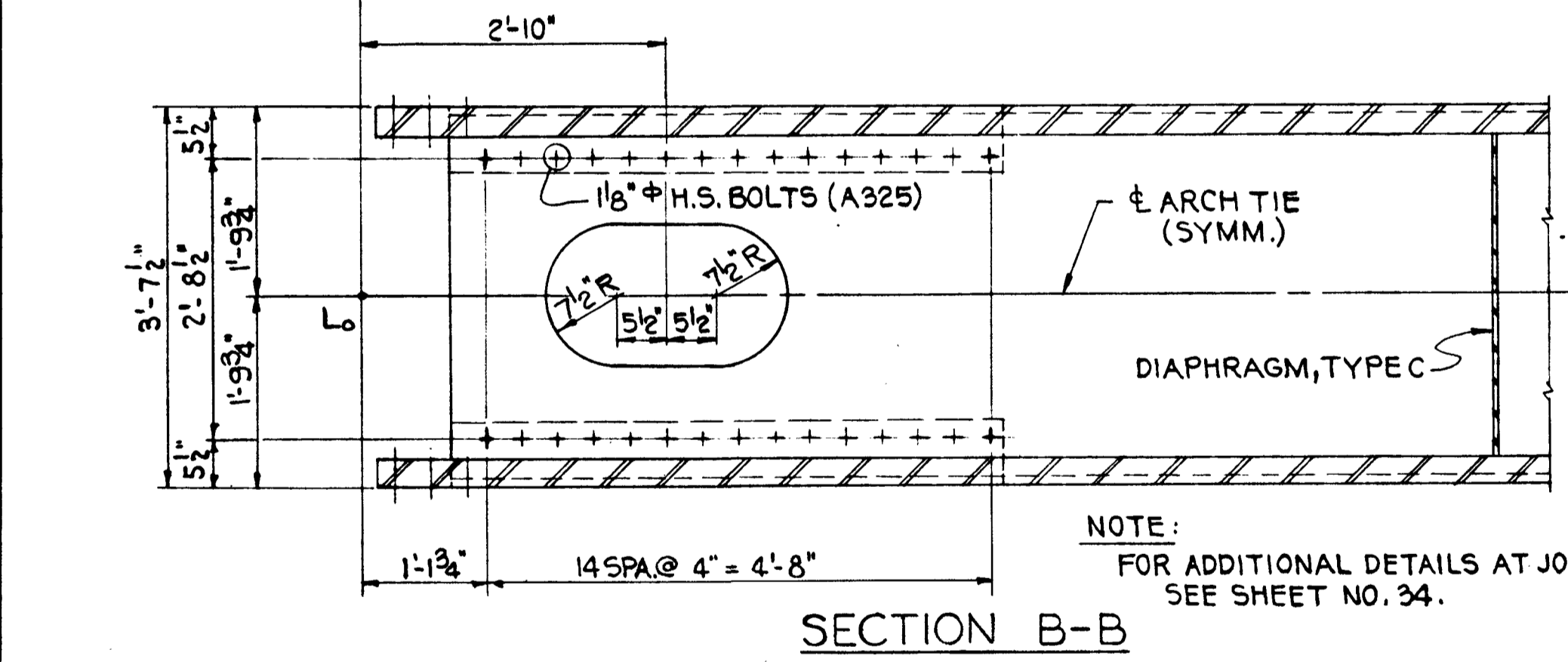
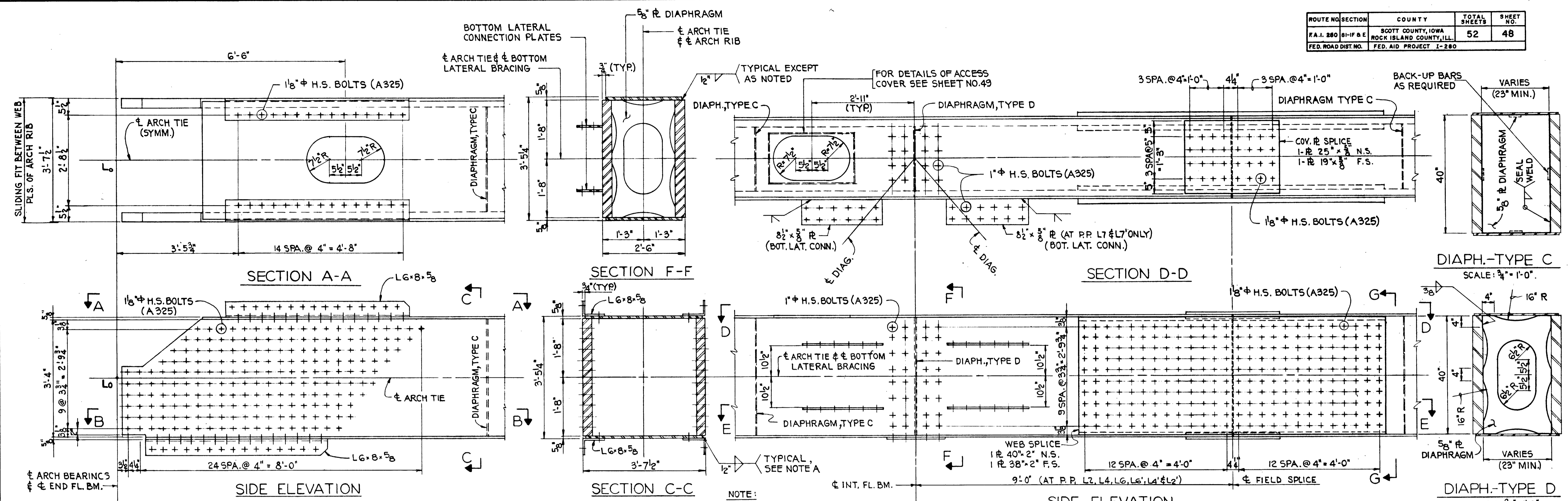
DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY W. J. ZAPFEL  
DRAWN BY M. M. VERGARA  
CHECKED A. MILUNAS  
IN CHARGE W. J. ZAPFEL  
APPROVED W. G. HORN

**ARCH SPAN  
HORIZONTAL TRUSS**  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

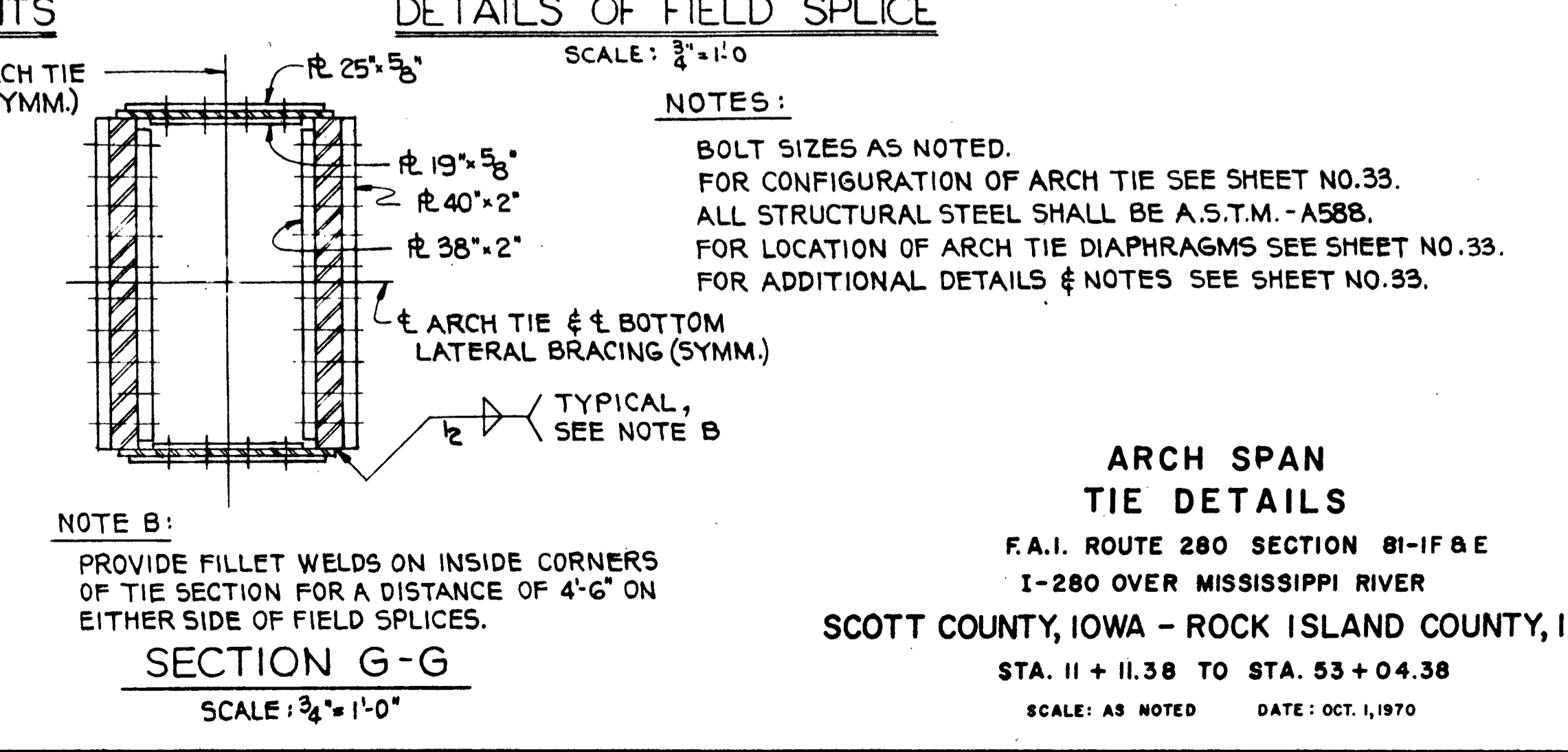
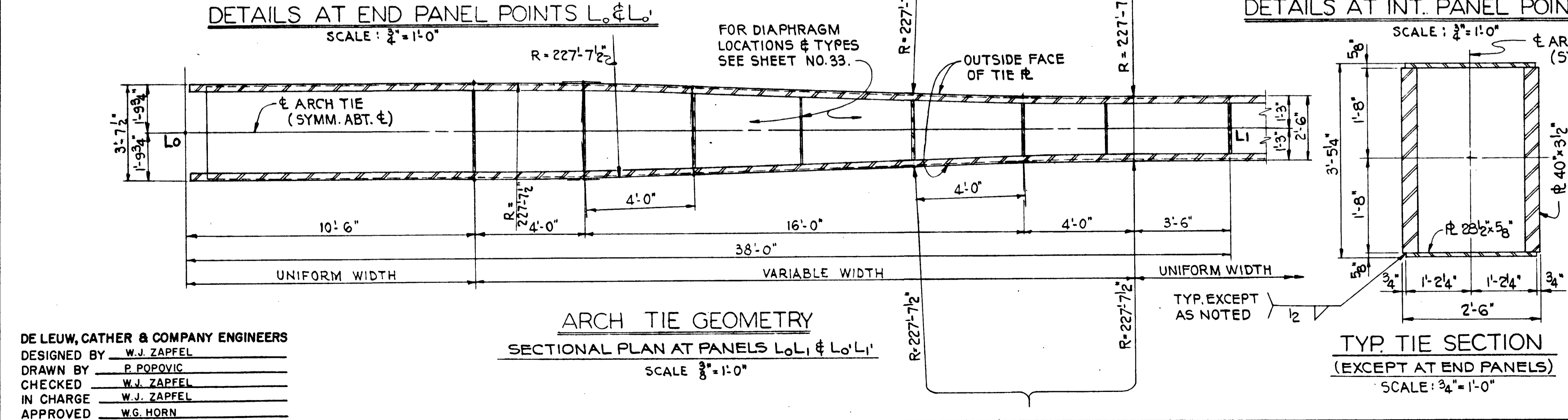
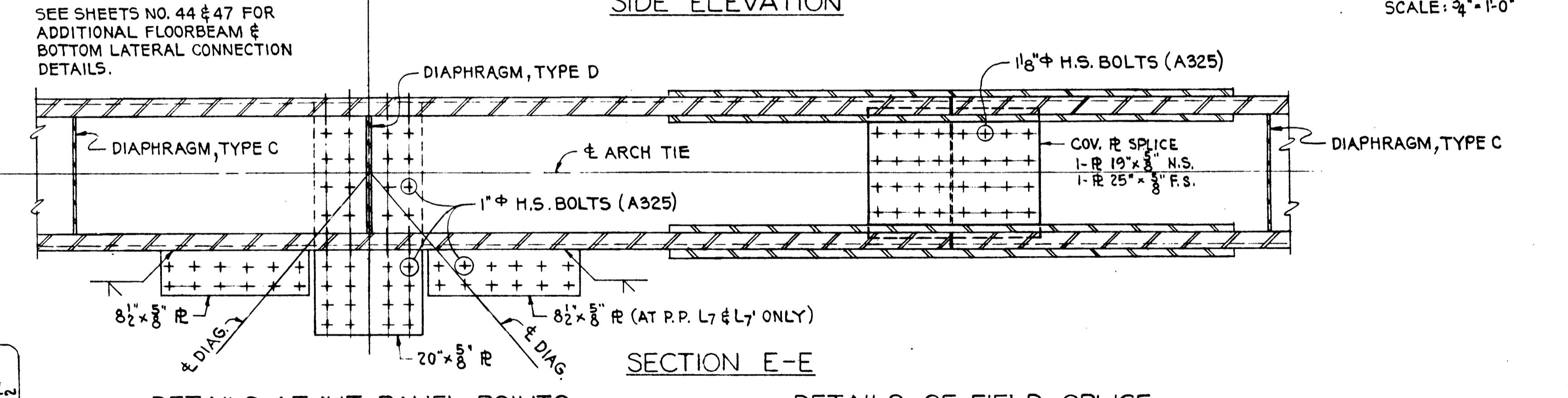




ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF & E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	48
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



**NOTE A:**  
PROVIDE FILLET WELDS ON INSIDE CORNERS OF THE SECTION FOR A DISTANCE OF 13'-0" FROM PANEL POINTS L<sub>0</sub> & L<sub>0</sub>'.



DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY P. POPOVIC  
CHECKED W.J. ZAPFEL  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

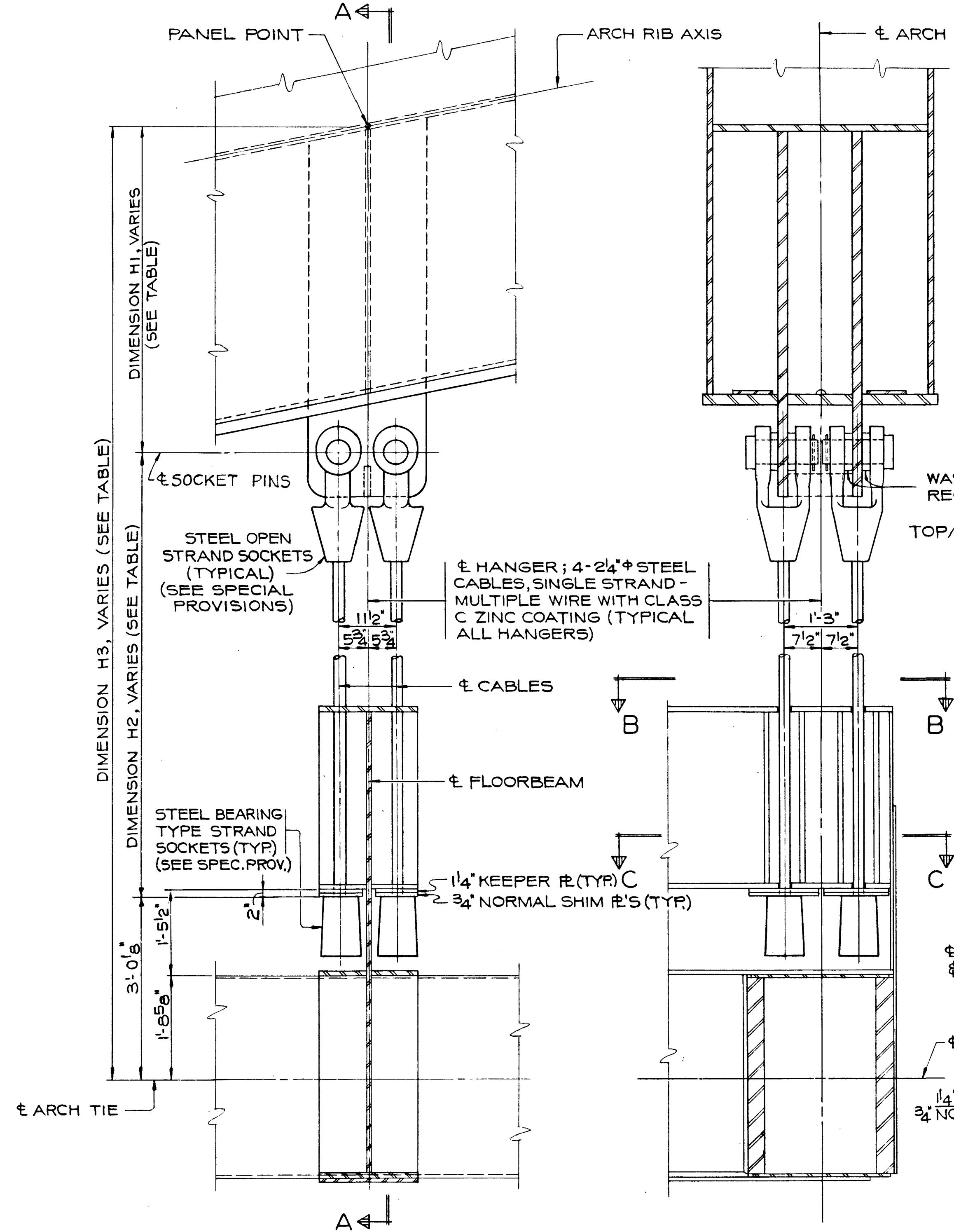
**ARCH TIE GEOMETRY**  
SECTIONAL PLAN AT PANELS L<sub>0</sub>L<sub>1</sub> & L<sub>0</sub>'L<sub>1</sub>'  
SCALE: 3/8" = 1'-0"

**TYP. TIE SECTION**  
(EXCEPT AT END PANELS)  
SCALE: 3/4" = 1'-0"

**SECTION G-G**  
SCALE: 3/4" = 1'-0"

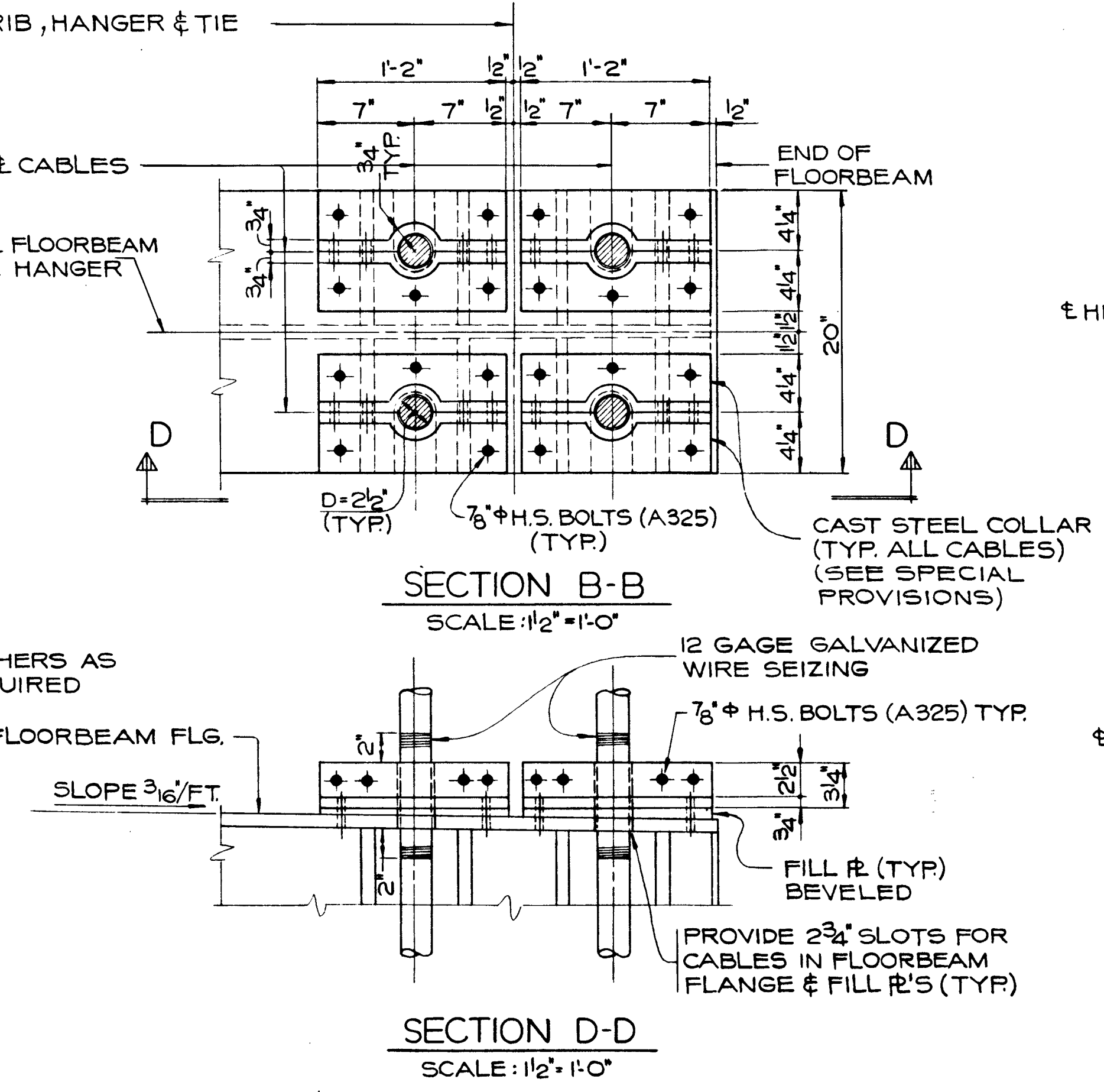
**ARCH SPAN TIE DETAILS**  
F.A.I. ROUTE 280 SECTION 81-IF & E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF & E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	49
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



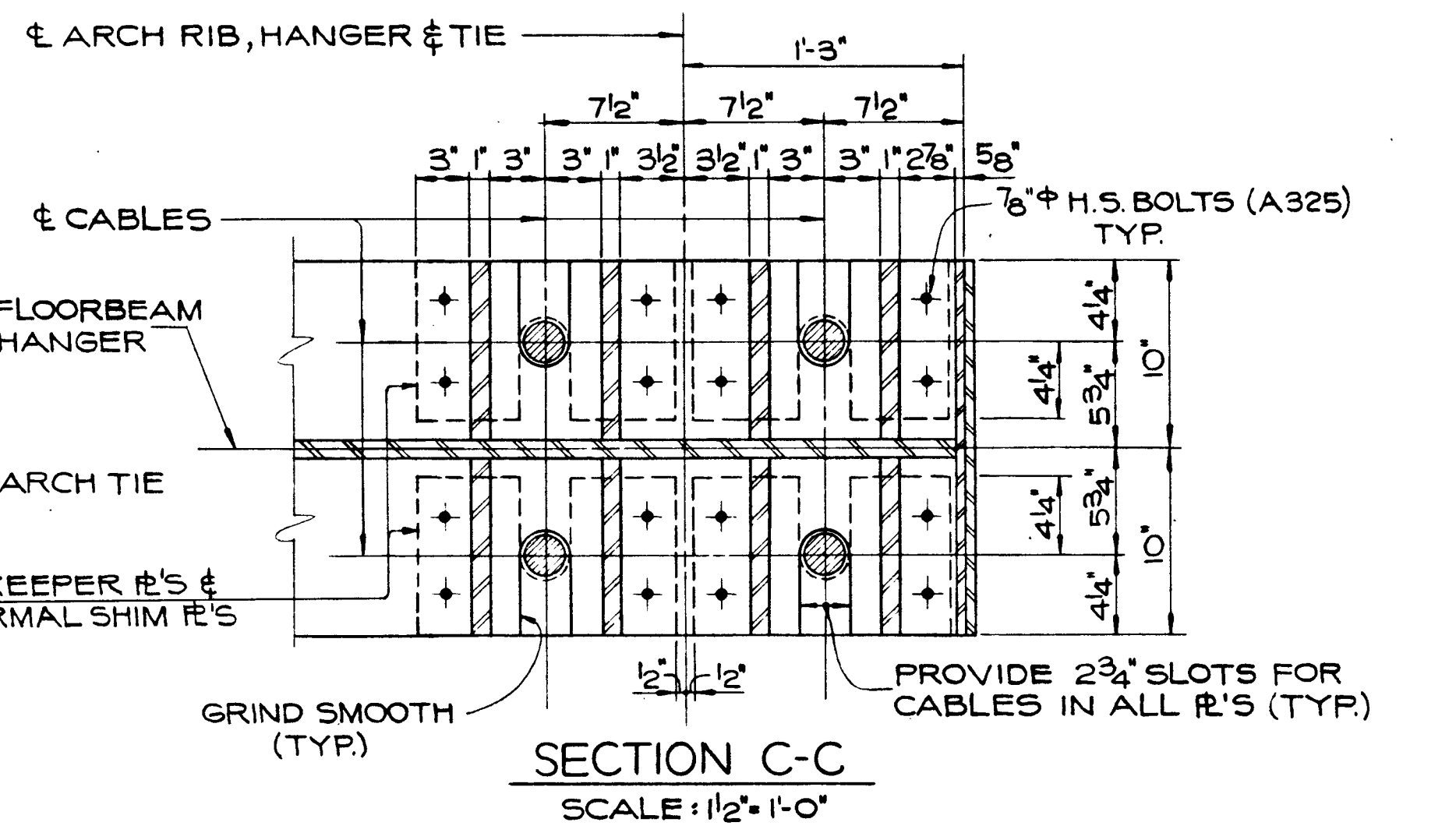
TYPICAL HANGER ELEVATION  
SCALE: 3/4" = 1'-0"

SECTION A-A  
SCALE: 3/4" = 1'-0"

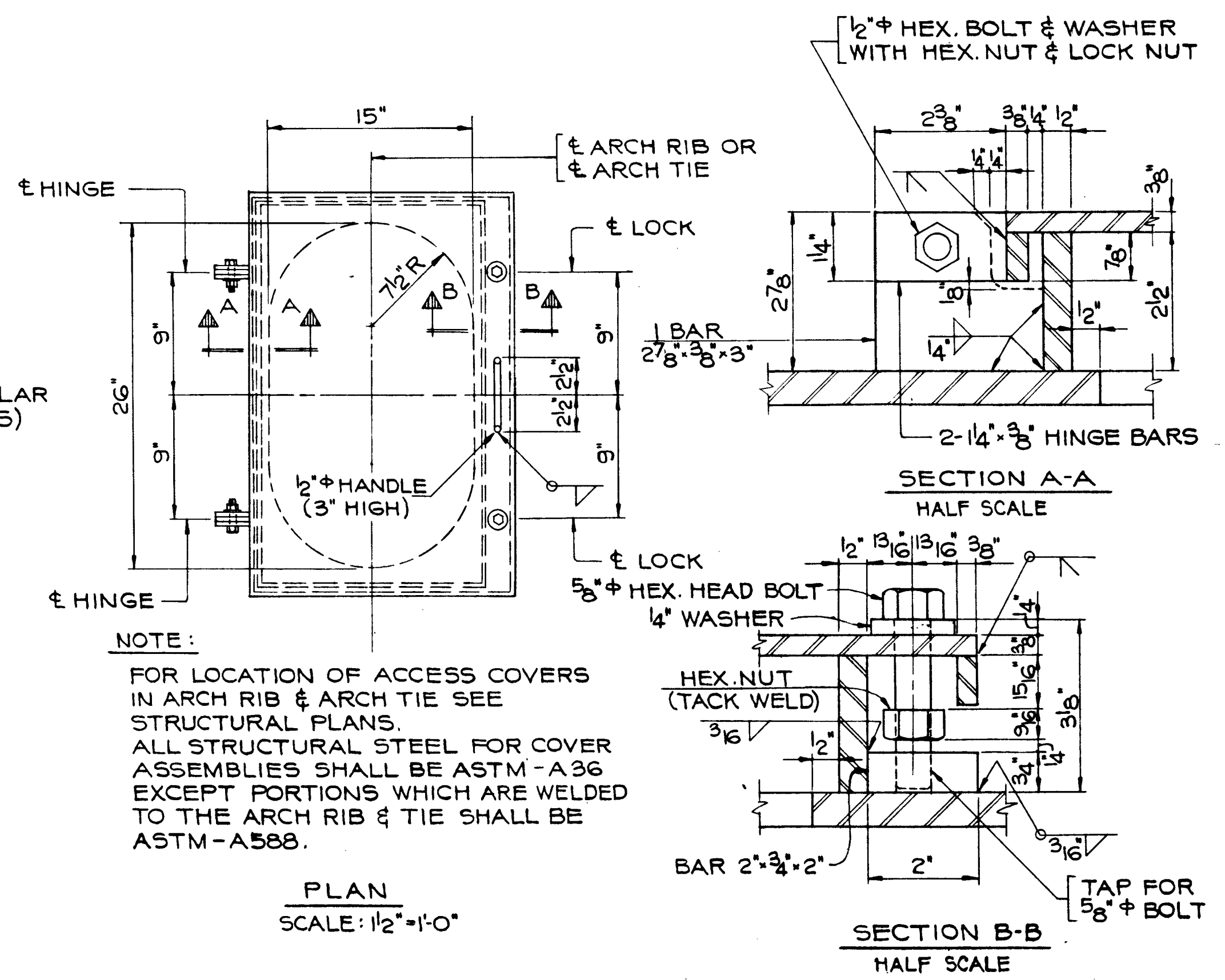


SECTION B-B  
SCALE: 1/2" = 1'-0"

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



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



ACCESS COVER DETAILS  
(ARCH RIB & ARCH TIE)

NOTE:  
EACH STEEL HANGER CABLE SHALL BE PRESTRETCHED TO 50% OF ITS BREAKING STRENGTH AND TO UNIFORM ELASTIC PROPERTIES BEFORE ATTACHMENT OF SOCKETS. CABLE PROPERTIES SHALL BE AS FOLLOWS: NOMINAL STRAND DIAMETER - 2 1/4"; MINIMUM GROSS METALLIC AREA AFTER GALVANIZING - 3.04 SQ. IN.; MINIMUM MODULUS OF ELASTICITY (AFTER PRESTRETCHING) - 23,000,000 LBS./SQ. IN.; APPROXIMATE CABLE WEIGHT - 10.6 LBS./FT. THE CABLES SHALL HAVE CLASS 'C' COATING FOR THE OUTER WIRES.

\* NOTE:  
DIMENSIONS SHOWN FOR "H2" & "H3" ARE FINAL IN PLACE DIMENSIONS. HANGER CABLES SHALL BE FABRICATED SHORTER THAN THE "H2" DIMENSIONS SHOWN BY AN AMOUNT REQUIRED TO COMPENSATE FOR FULL DEAD LOAD CABLE ELONGATIONS. FOR DEAD LOAD CABLE ELONGATIONS SEE SHEET 33.

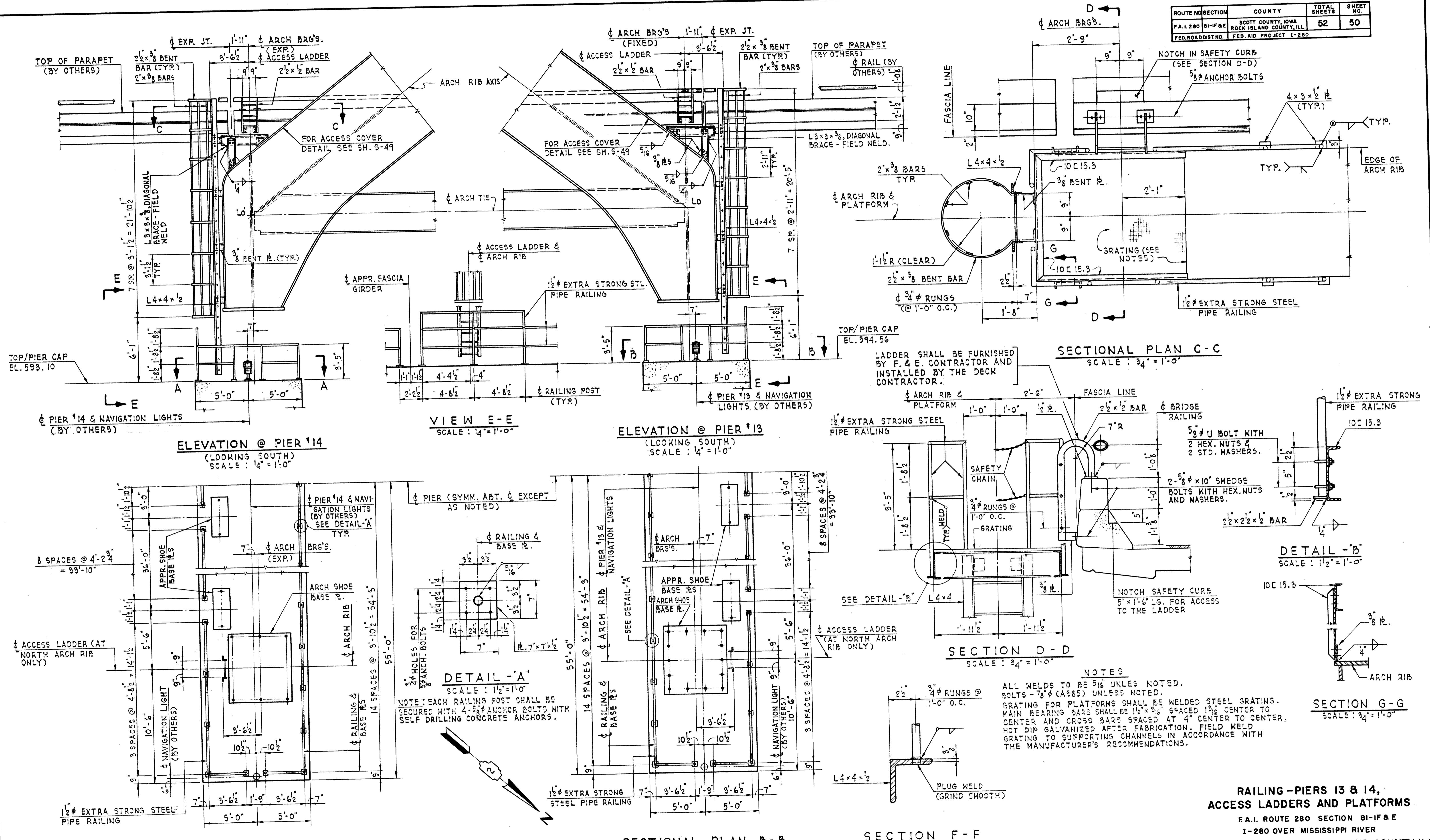
PANEL POINT	HANGER DIMENSIONS		
	H1	H2*	H3*
U <sub>1</sub> & U <sub>1</sub> '	6'-10"	18'-4 3/8"	28'-2 3/4"
U <sub>2</sub> & U <sub>2</sub> '	6'-7"	42'-10"	52'-5 8/16"
U <sub>3</sub> & U <sub>3</sub> '	6'-3"	63'-4"	72'-7 1/8"
U <sub>4</sub> & U <sub>4</sub> '	5'-11"	79'-9 5/8"	88'-8 3/4"
U <sub>5</sub> & U <sub>5</sub> '	5'-9"	92'-0 15/16"	100'-9 15/16"
U <sub>6</sub> & U <sub>6</sub> '	5'-7"	100'-3 3/8"	108'-10 3/8"
U <sub>7</sub> & U <sub>7</sub> '	5'-4"	104'-7"	112'-11 5/8"

DE LEUW, CATHY & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPPEL  
DRAWN BY P. POPOVIC  
CHECKED W.J. ZAPPEL  
IN CHARGE W.J. ZAPPEL  
APPROVED WG. HORN

ARCH SPAN  
HANGER DETAILS  
F.A.I. ROUTE 280 SECTION 81-IF & E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970



ROUTE/SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IF&E	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	52	50
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		



**NOTES**

ALL WELDS TO BE 5/16" UNLESS NOTED.  
 BOLTS - 7/8" (A385) UNLESS NOTED.  
 GRATING FOR PLATFORMS SHALL BE WELDED STEEL GRATING.  
 MAIN BEARING BARS SHALL BE 1/2" x 3/16" SPACED 13/16" CENTER TO CENTER AND CROSS BARS SPACED AT 4" CENTER TO CENTER.  
 HOT DIP GALVANIZED AFTER FABRICATION. FIELD WELD GRATING TO SUPPORTING CHANNELS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

**RAILING - PIERS 13 & 14,  
ACCESS LADDERS AND PLATFORMS**

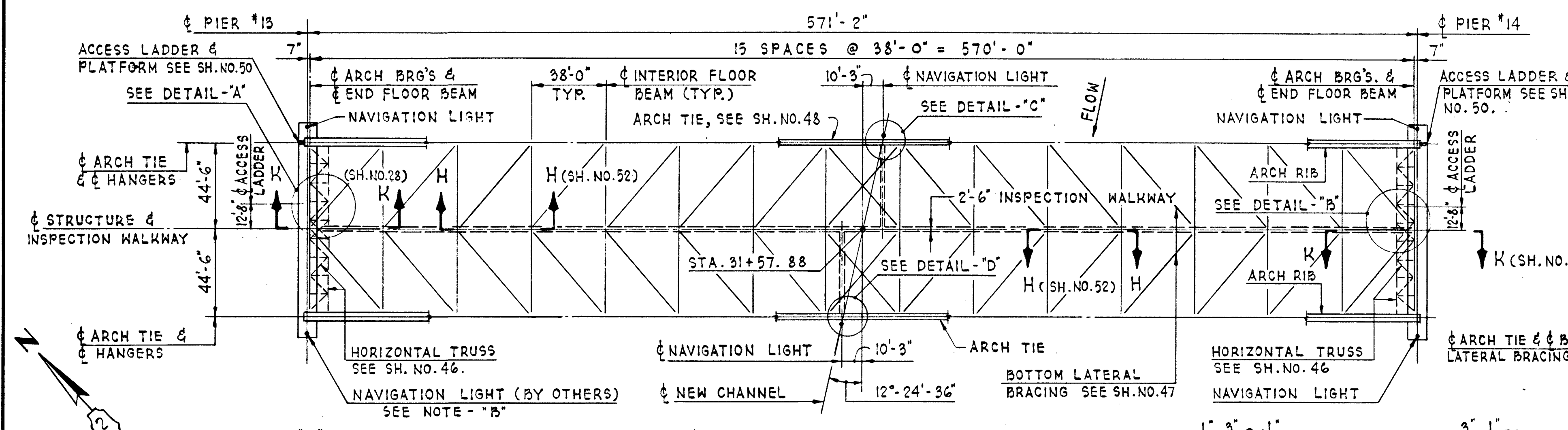
F.A.I. ROUTE 280 SECTION 81-IF&E  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.

STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY F. BOBINAS  
 CHECKED BY W.J. ZAPFEL  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

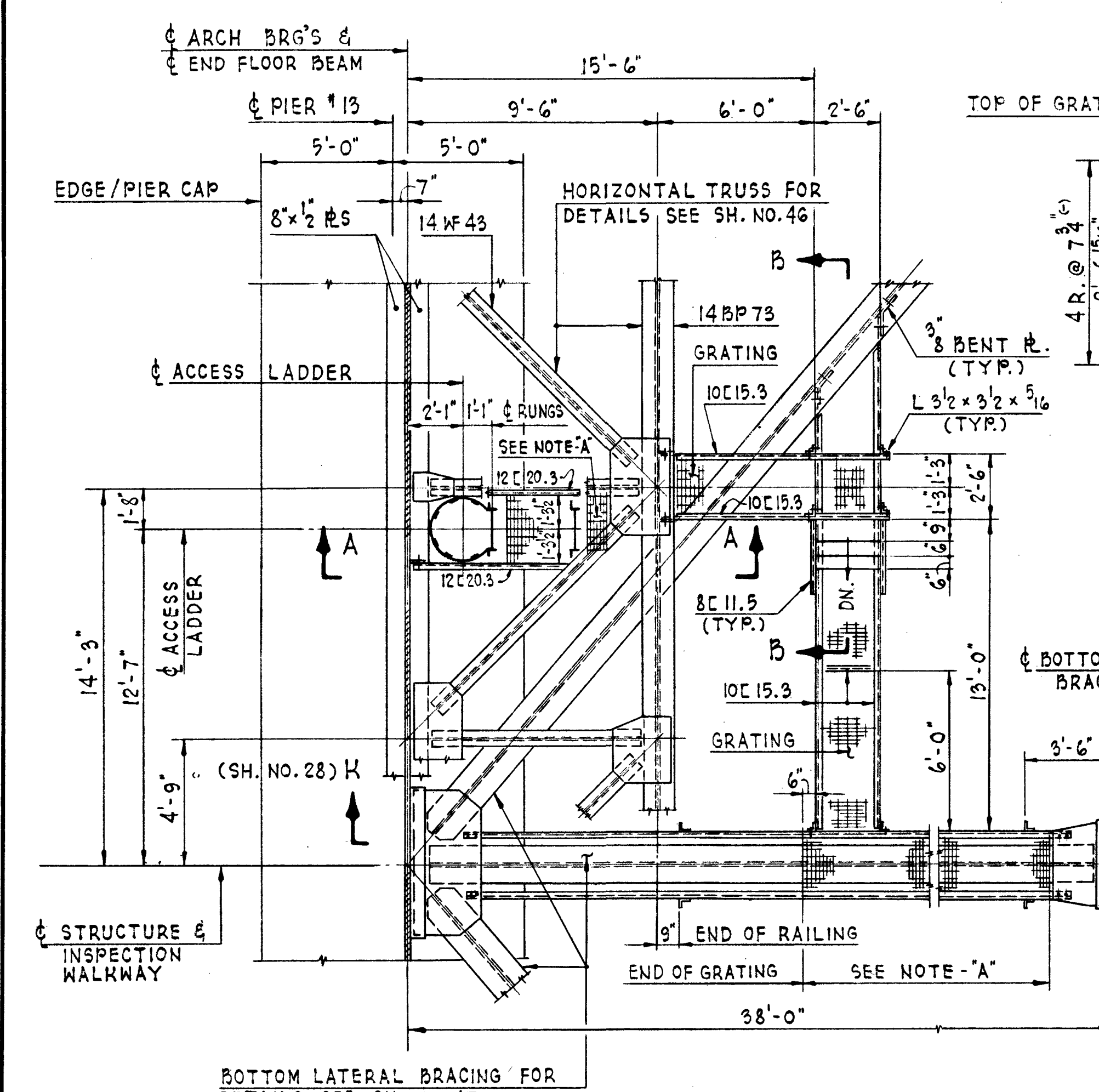


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA	52	51
FED. ROAD DIST. NO.		ROCK ISLAND COUNTY, ILL.	FED. AID PROJECT 1-280	



**INSPECTION WALKWAY LAYOUT PLAN**  
SCALE: 1" = 40'

**NOTE - "B":**  
ALL NAVIGATION LIGHTING SHALL BE FURNISHED AND INSTALLED BY OTHERS.

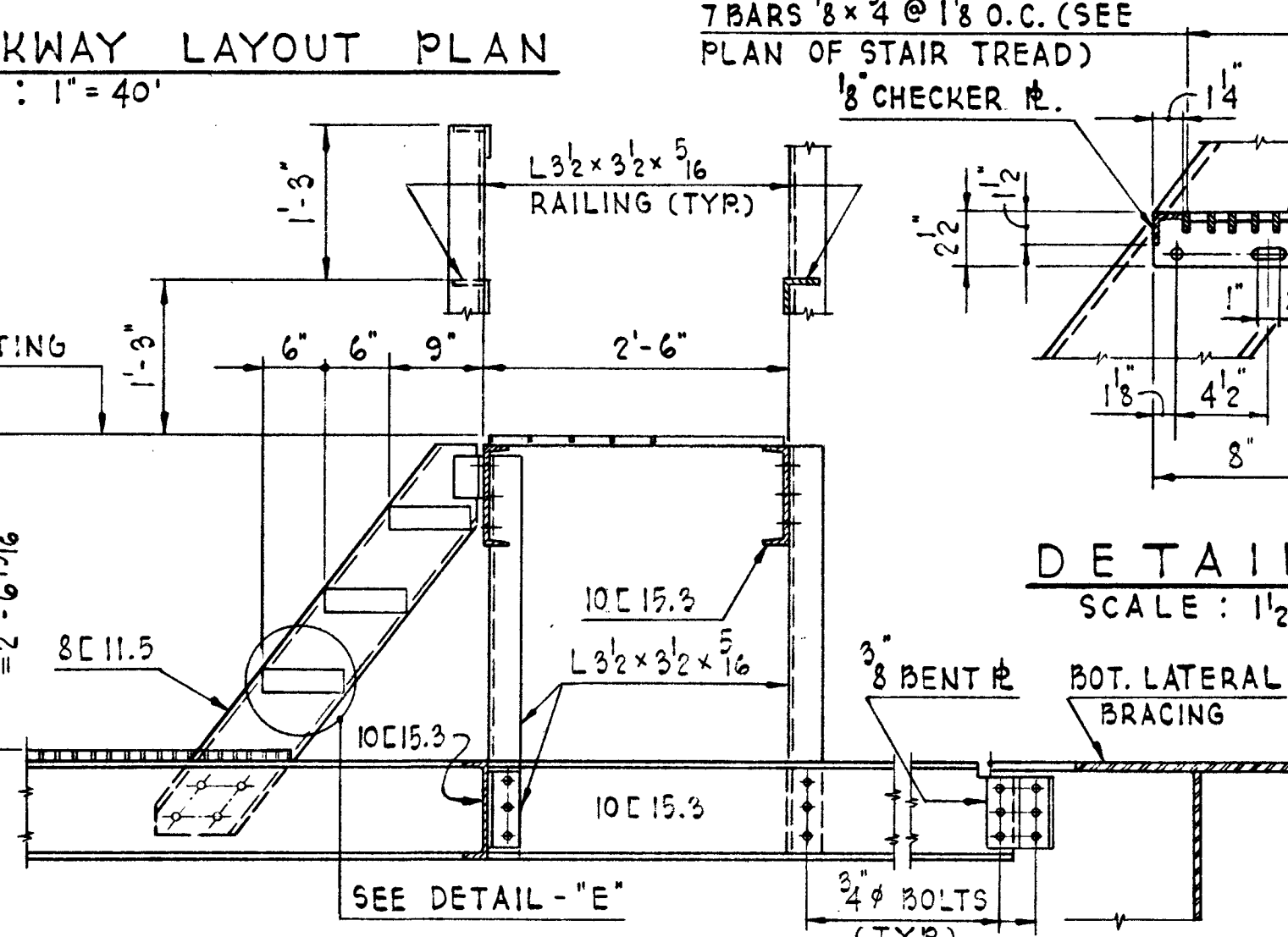


**DETAIL - "A" (AS SHOWN)**  
**DETAIL - "B" (OPP. HAND)**  
SCALE: 1/4" = 1'-0"

**NOTE - "A":** FASTEN GRATING PANELS WITH GALVANIZED STEEL SADDLE CLIPS TO FACILITATE PAINTING.

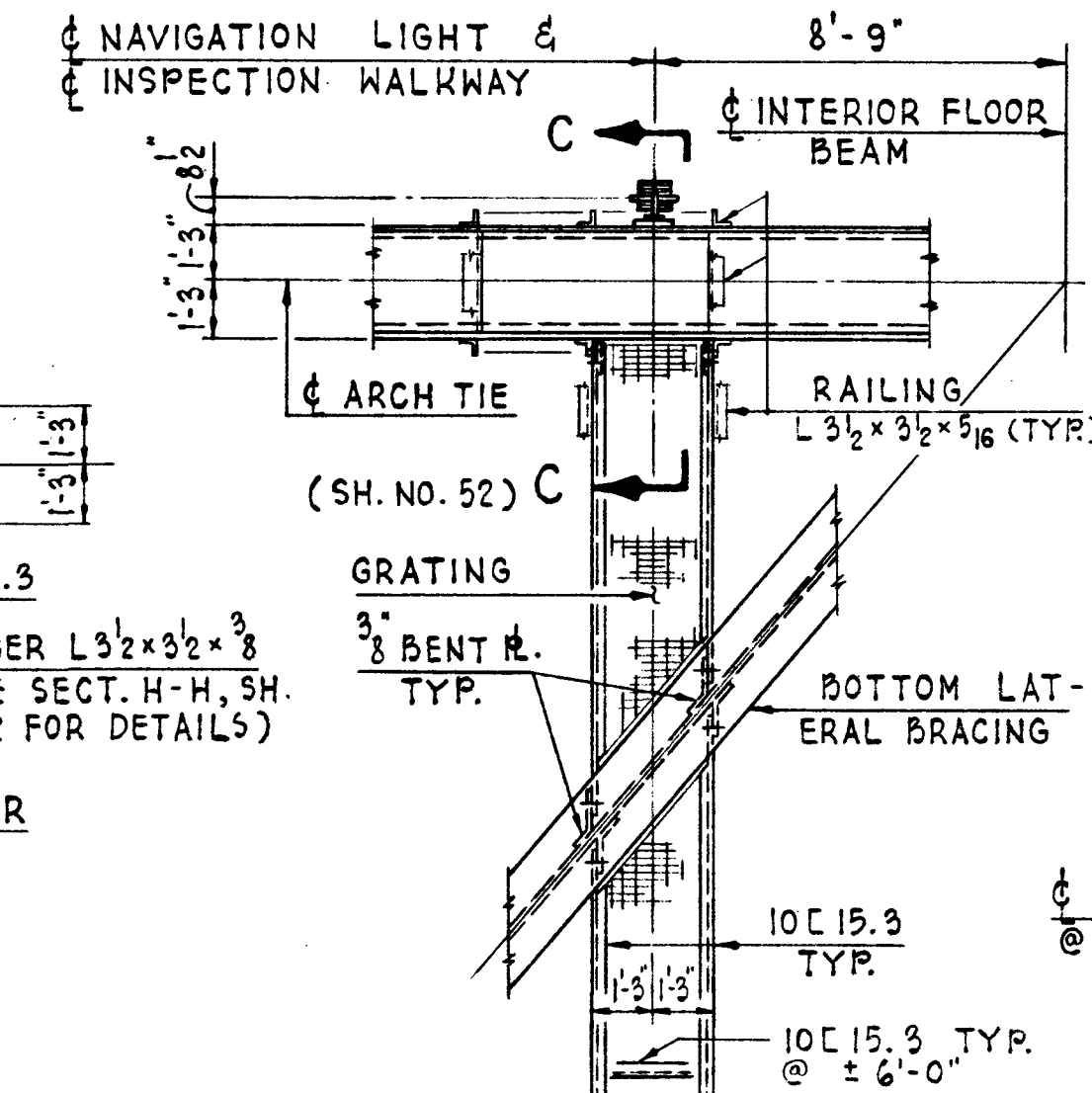
**NOTE:**  
GRATING FOR INSPECTION WALKWAY SHALL BE WELDED STEEL GRATING, MAIN BARS 1" x 3/16" @ 13 1/2" O.C. AND CROSS BARS @ 4" O.C. HOT DIP GALVANIZED AFTER FABRICATION.  
FIELD WELD GRATING TO SUPPORTING CHANNELS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS EXCEPT AS NOTED.

**DE LEUW, CATHY & COMPANY ENGINEERS**  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY F. BOBINAS  
CHECKED BY W.J. ZAPFEL  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

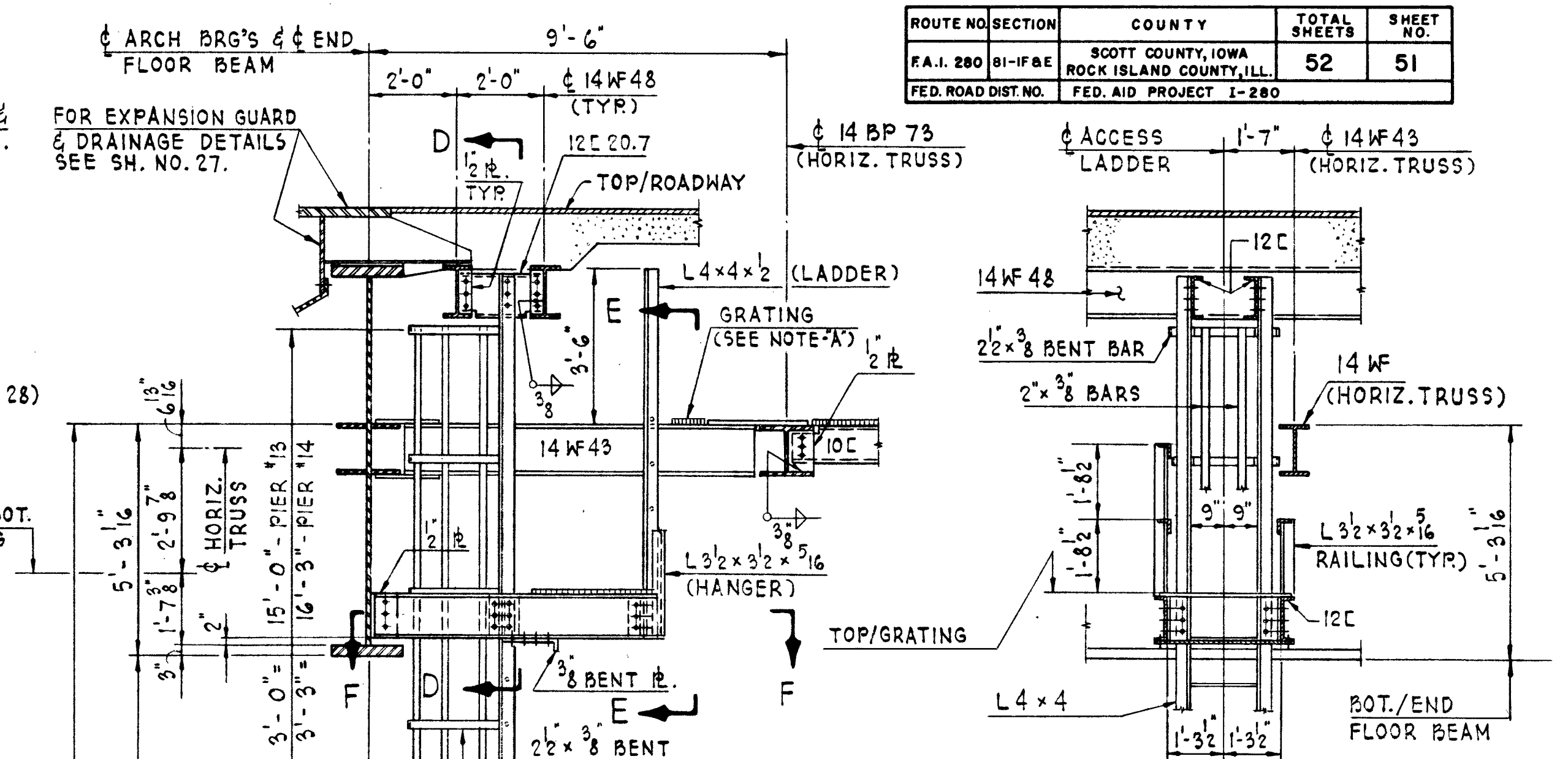


**SECTION B - B**  
SCALE: 3/4" = 1'-0"

**DETAIL - "E"**  
SCALE: 1 1/2" = 1'-0"

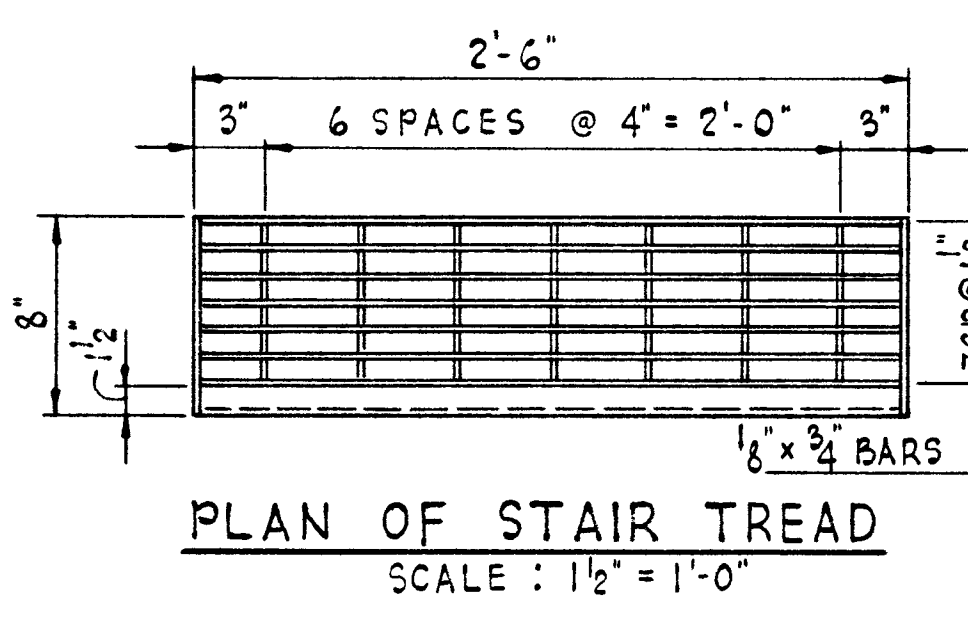


**DETAIL - "C" (AS SHOWN)**  
**DETAIL - "D" (OPP. HAND)**  
SCALE: 1/4" = 1'-0"

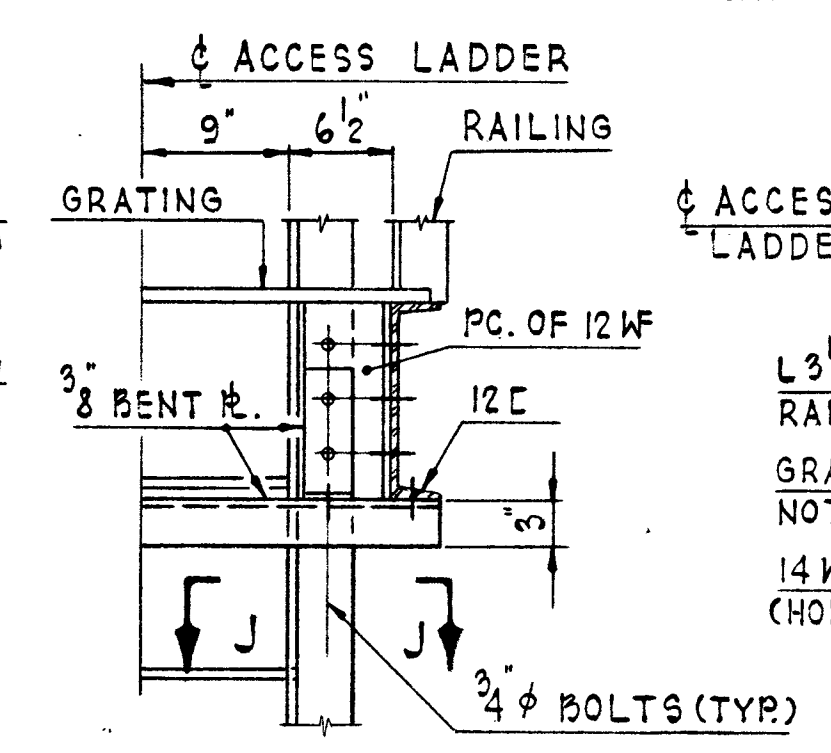


**SECTION A - A**  
SCALE: 3/8" = 1'-0"

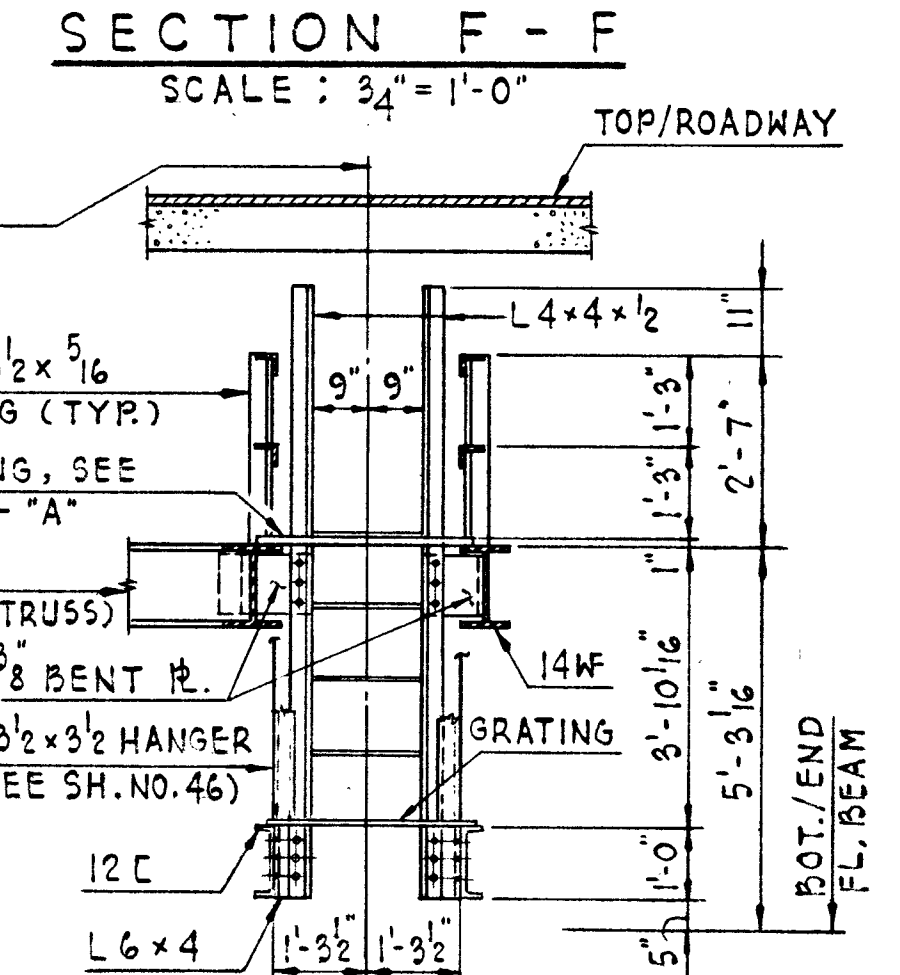
**SECTION D - D**  
SCALE: 3/8" = 1'-0"



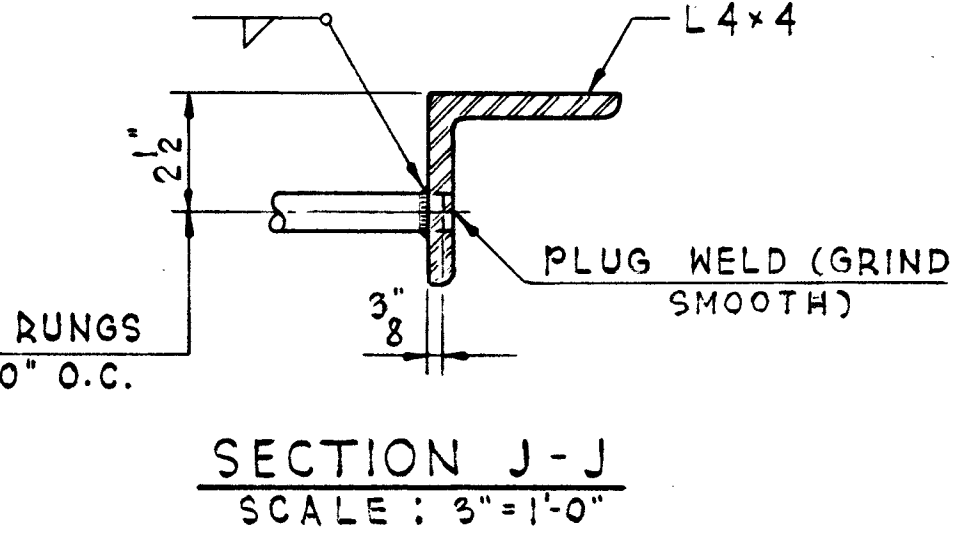
**PLAN OF STAIR TREAD**  
SCALE: 1 1/2" = 1'-0"



**SECTION G - G**  
SCALE: 1" = 1'-0"



**SECTION F - F**  
SCALE: 3/4" = 1'-0"

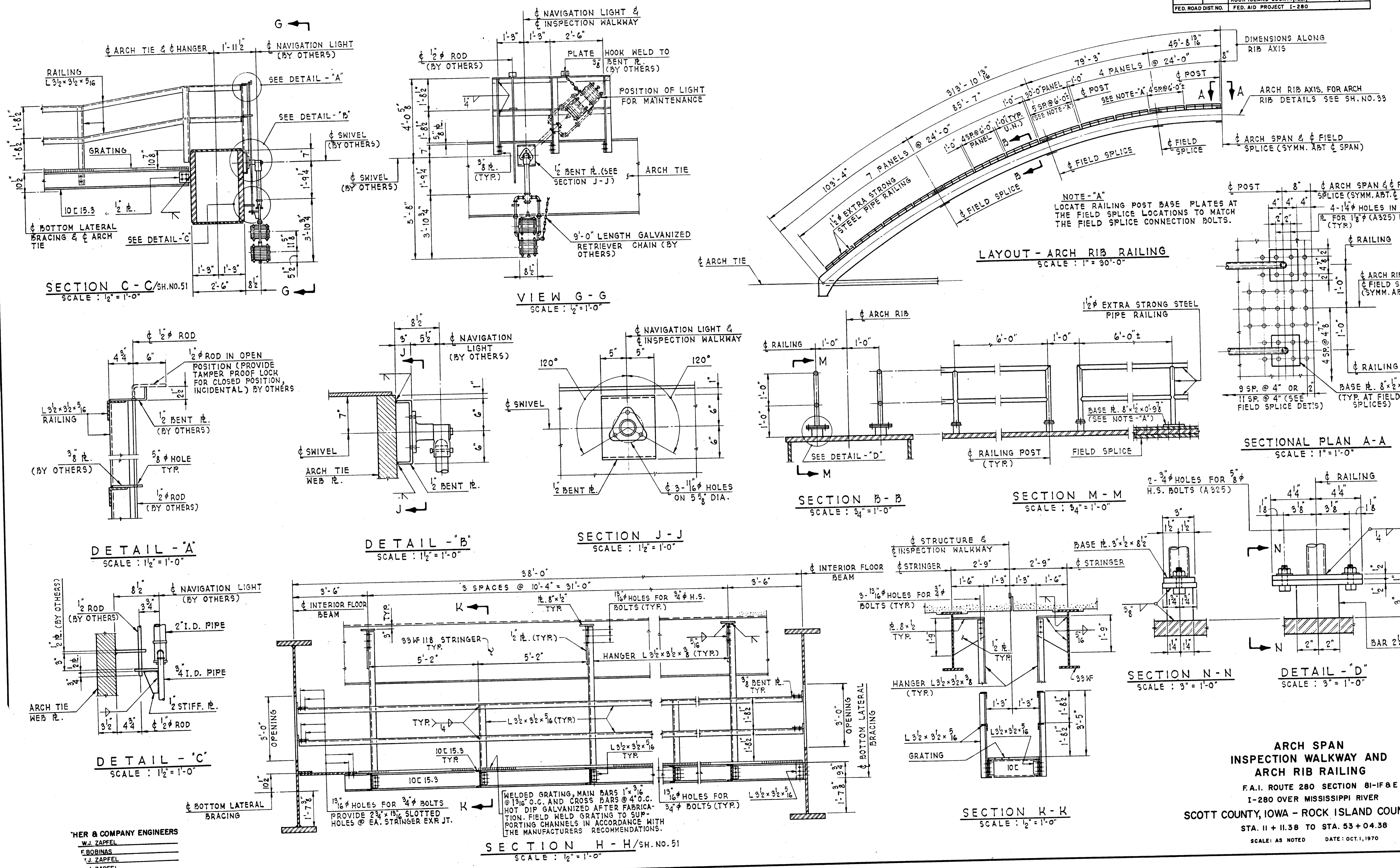


**SECTION J - J**  
SCALE: 3" = 1'-0"

**ARCH SPAN**  
**INSPECTION WALKWAY DETAILS**  
F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970



ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-IF&E	SCOTT COUNTY, IOWA	52	52
FED. ROAD DIST. NO.	FED. AID PROJECT	ROCK ISLAND COUNTY, ILL.		
		1-280		



**ARCH SPAN  
INSPECTION WALKWAY AND  
ARCH RIB RAILING**

F.A.I. ROUTE 280 SECTION 81-IF&E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.

STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

**HER & COMPANY ENGINEERS**  
W.J. ZAPFEL  
E. BOBINAS  
J. ZAPFEL  
L. ZAPFEL  
HORN

**SECTION H - H / SH. NO. 51**  
SCALE: 1/2" = 1'-0"

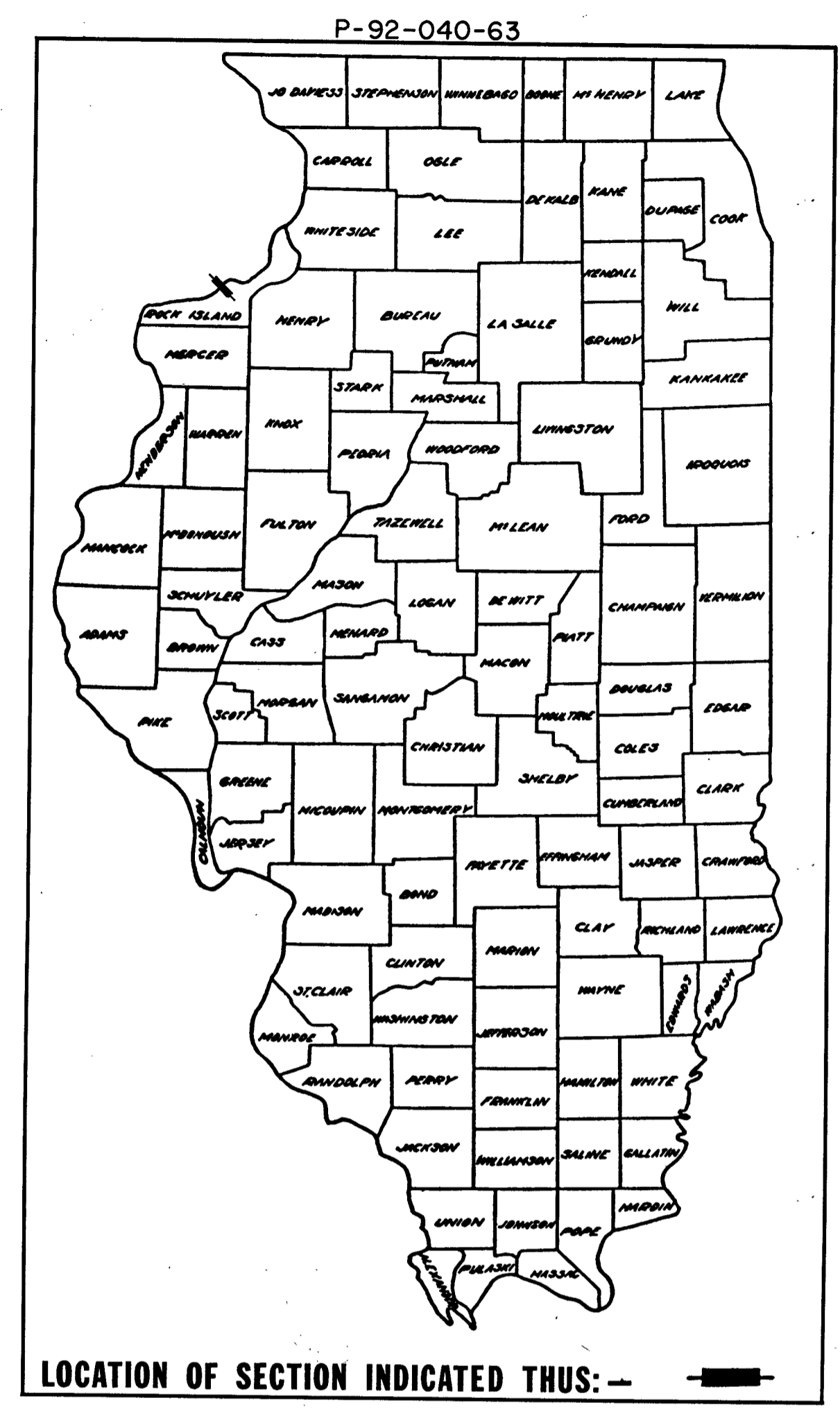
# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID INTERSTATE HIGHWAY

FEDERAL-AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
EA. I. 280	81-B-1	ROCK ISLAND SCOTT, IOWA	5	1
FED. ROAD DIV. NO. 4		ILLINOIS PROJECT		

### INDEX OF SHEETS

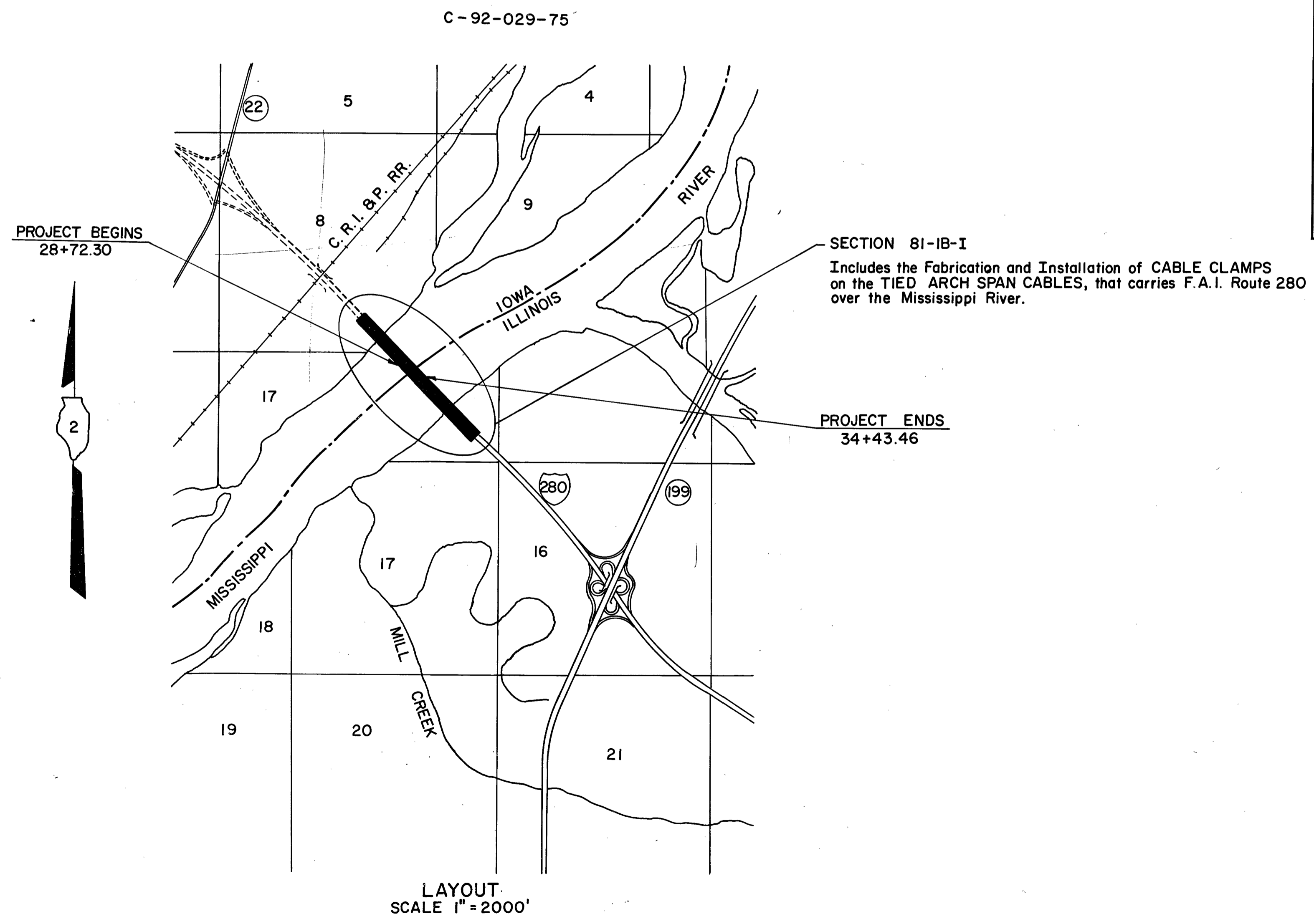
1. COVER SHEET, INDEX OF SHEETS, SUMMARY OF QUANTITIES
2. SUSPENDER CABLE CLAMP DETAILS
- 3,4,5. STRUCTURE DETAIL (FOR INFORMATION ONLY)
  - STANDARD
  - 2298-4 - TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
  - 2299-5 - DESIGN OF TRAFFIC CONTROL DEVICES
  - 2300-1 - FLAGMAN TRAFFIC CONTROL SIGN
  - 2316-3 - TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (CASE XVI)

F.A.I. ROUTE 280 SECTION 81-IB-1  
PROJECT I-280-8(78)0  
ROCK ISLAND COUNTY, ILL.  
SCOTT COUNTY, IOWA



### SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL
* XZ1089	TRAFFIC CONTROL AND PROTECTION STD. 2316	LUMP SUM	1
* X05407	CABLE CLAMPS	EACH	21



SECTION 81-IB-1  
Includes the Fabrication and Installation of CABLE CLAMPS on the TIED ARCH SPAN CABLES, that carries F.A.I. Route 280 over the Mississippi River.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED FEB 13 1975

EXAMINED FEB 21 1975

PASSED FEB 21 1975

APPROVED FEB 21 1975

DISTRICT ENGINEER  
ENGINEER OF DESIGN  
DIRECTOR OF HIGHWAYS

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED \_\_\_\_\_

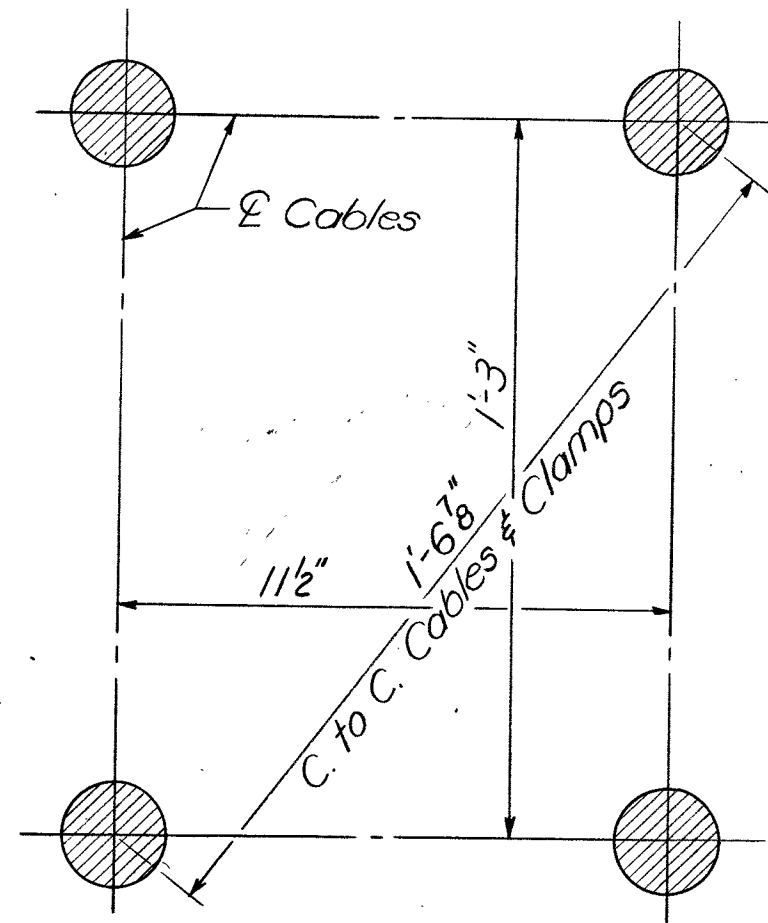
DIVISION ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

CONTRACT NO. 30489

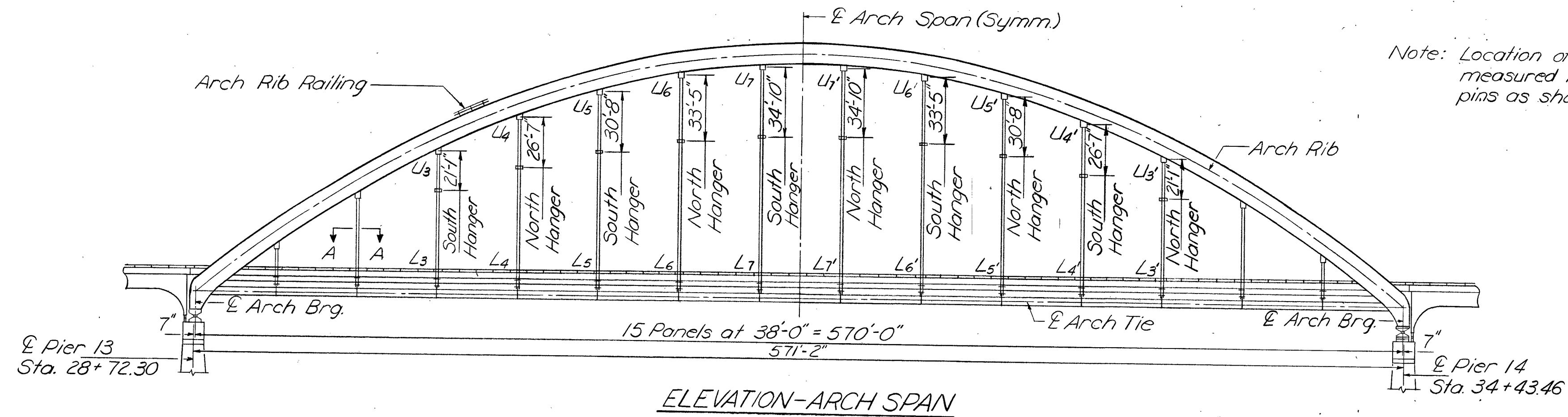


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

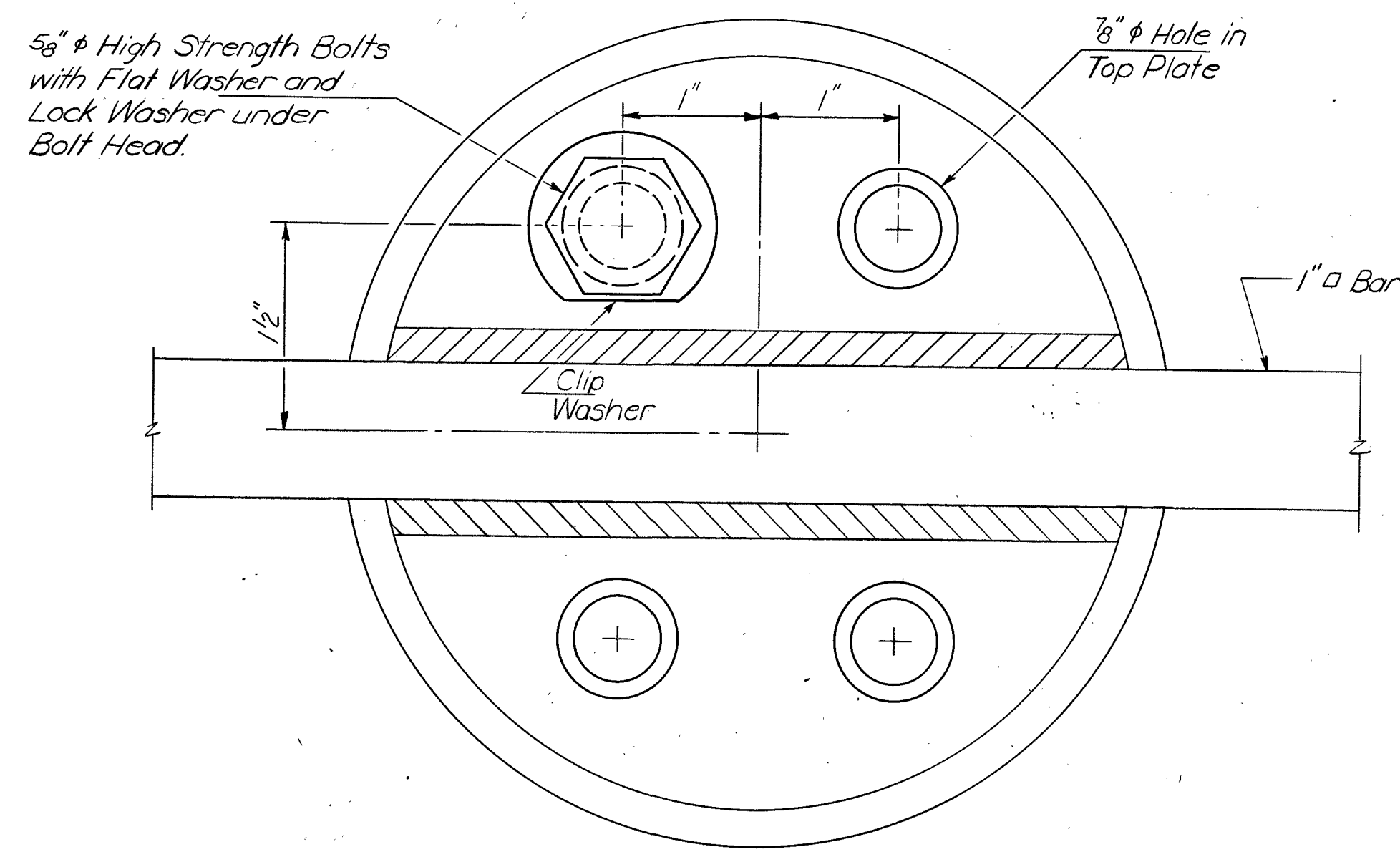
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. / SHEETS
P. A. I. 280	81-1(B)	Rock Island	5	2	1 / SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



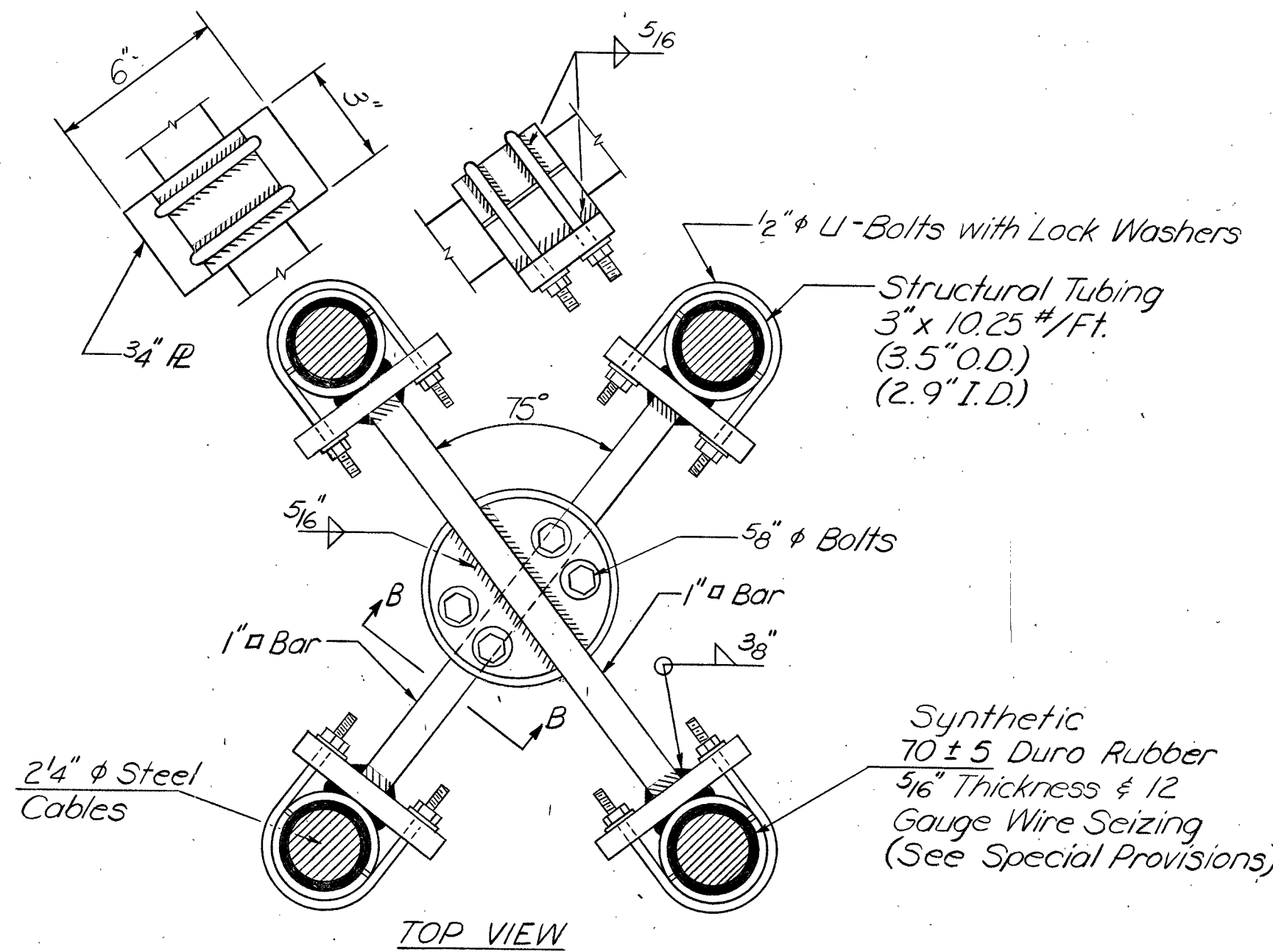
SECTION A-A  
TYPICAL CABLE PATTERN



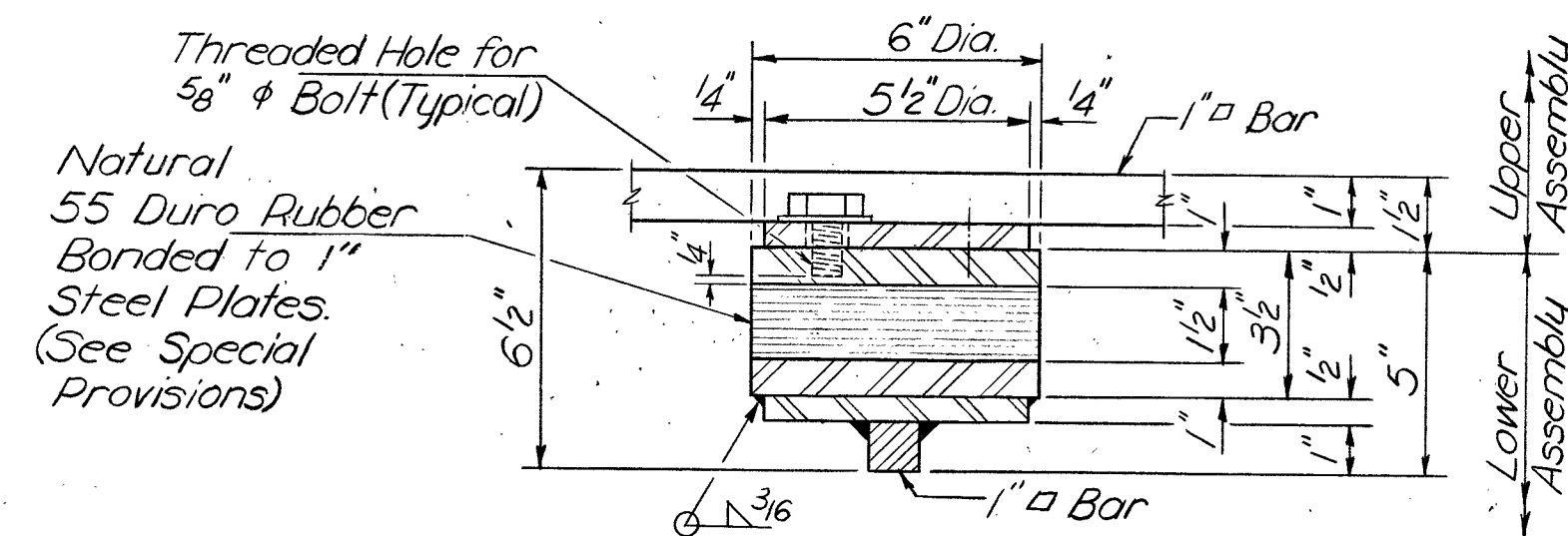
Note: Location of cable dampeners are measured from  $\bar{E}$  of upper socket pins as shown in the Elevation View.



PLAN UPPER ASSEMBLY



TOP VIEW



SECTION B-B  
CABLE DAMPENER DETAILS

GENERAL NOTES

Initial installation of the clamps shall be limited to the ten locations shown in the elevation view. The remaining ten clamps shall be installed at locations opposite to those shown on the plans, as directed by the Engineer after the cable frequency of the clamped suspenders has been measured during construction by DOT Physical Research personnel. One clamp assembly shall be retained for testing purposes. See special provisions.

All structural steel shall conform to A.S.T.M. A36 and shall be galvanized in accordance with AASHTO specification M111. All galvanizing shall be done prior to bonding of rubber to steel. Steel surfaces to which rubber is bonded shall not be galvanized.

BILL OF MATERIAL

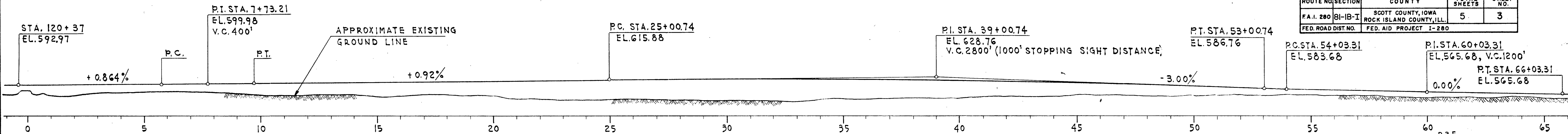
Item	Unit	Total
Cable Clamps	Each	21

DESIGNED	
CHECKED	
DRAWN	L. Wanless
CHECKED	J. W. Ganzi

December 17, 1974
EXAMINED <i>[Signature]</i> ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
APPROVED <i>[Signature]</i> ENGINEER OF DESIGN
DIRECTOR OF HIGHWAYS

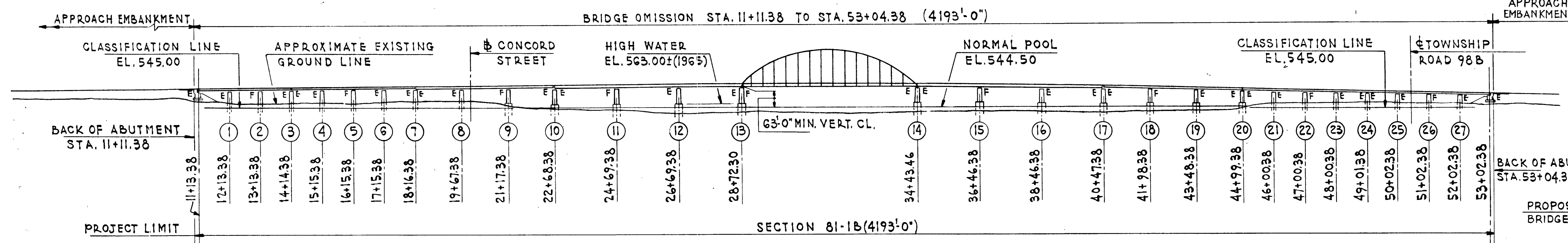
SUSPENDER CABLE CLAMP DETAILS  
F.A.I. ROUTE 280 SECTION 81-1B-1  
I-280 OVER MISSISSIPPI RIVER  
ROCK ISLAND COUNTY

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-IB-I	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	5	3
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		

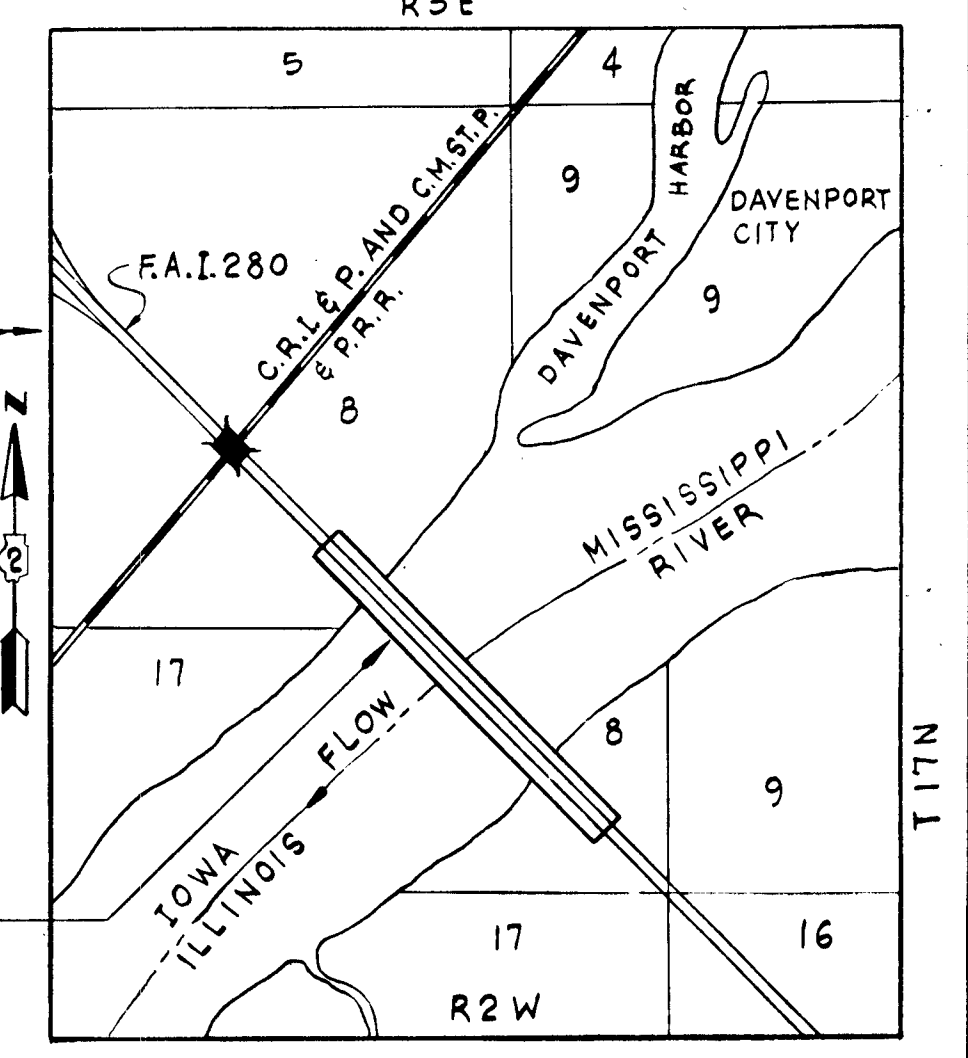


EQUATION  
IOWA STA. 119+98.38 =  
ILLINOIS STA. 0+00

PROFILE GRADE  
SCALE: 1" = 200'  
NOTE: ALL ELEVATIONS REFERRED TO ARE BASED UPON 5TH GENERAL ADJUSTMENT-ILLINOIS.



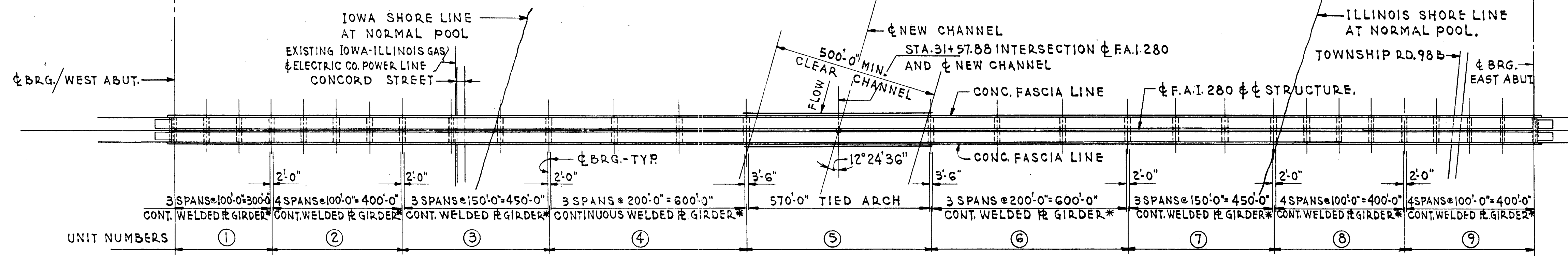
ELEVATION  
SCALE: 1" = 200'



LOCATION PLAN

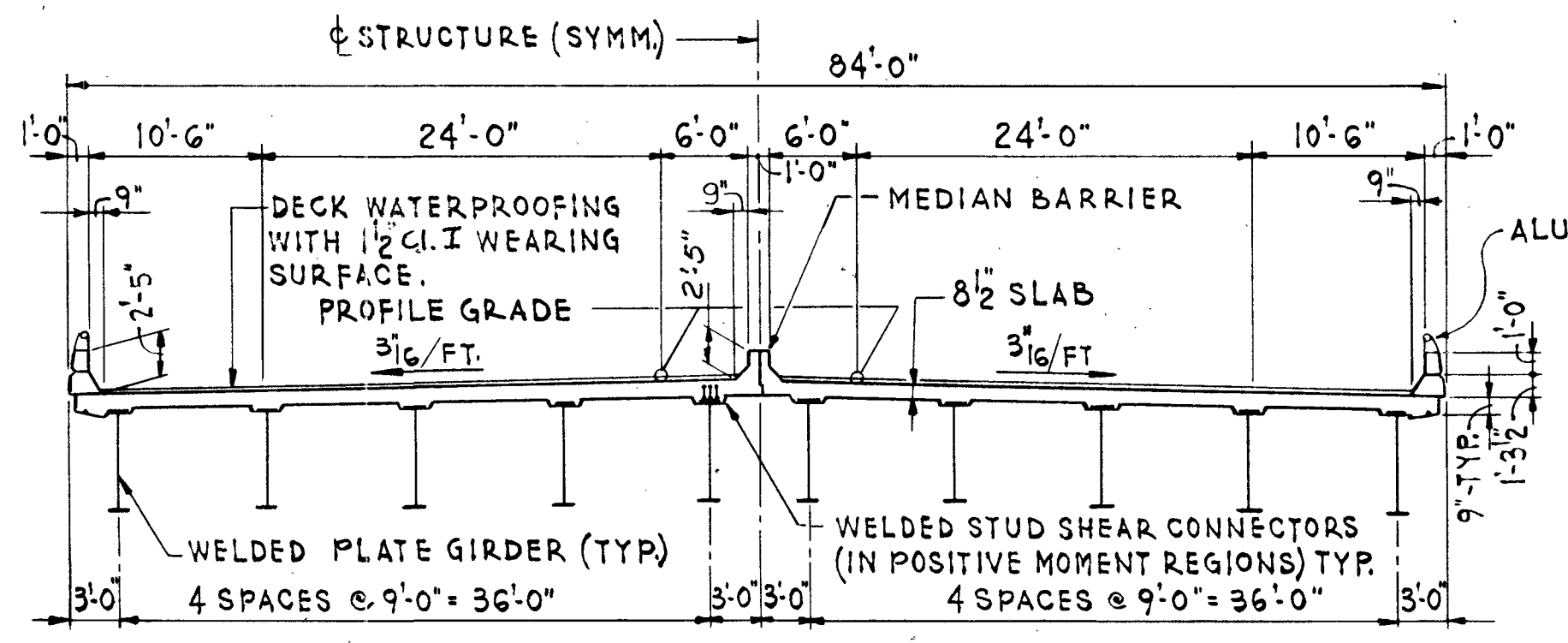
QUANTITIES		
ITEM	UNIT	QUANTITY
FURNISHING AND ERECTING OF STRUCTURAL STEEL	LUMP SUM	1

NOTE:  
CALCULATED PLAN WEIGHT OF STRUCTURAL STEEL 20,408,000 LBS.

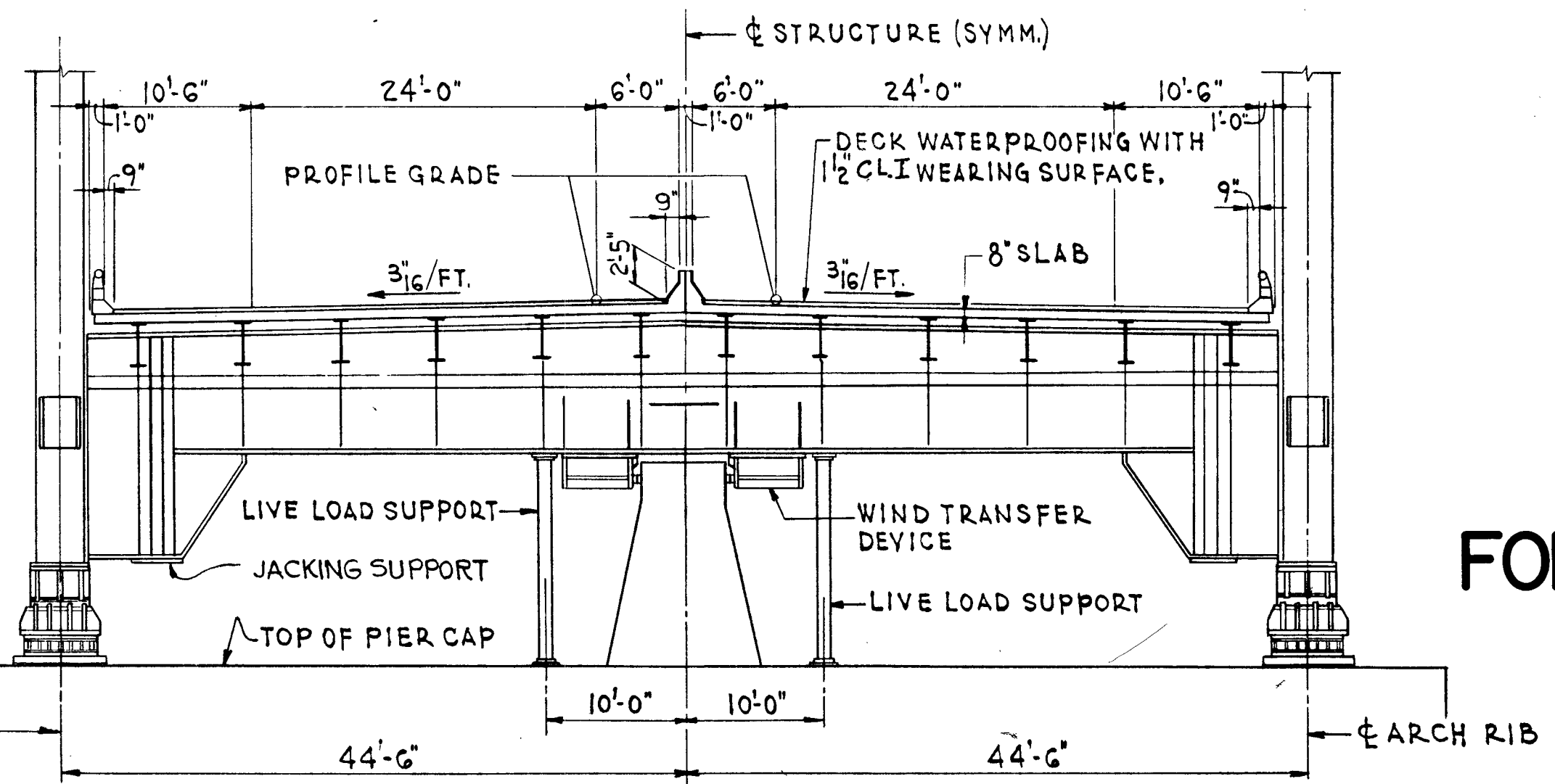


PLAN  
SCALE: 1" = 200'

\*INDICATES CONTINUOUS COMPOSITE CONSTRUCTION.



TYPICAL CROSS SECTION - APPROACH SPANS  
SCALE: 1" = 10'



TYPICAL CROSS SECTION - ARCH SPAN  
SHOWING AT END FLOOR BEAM  
SCALE: 1" = 10'

WATERWAY INFORMATION

WATERWAY OPENING REQUIRED	26,000	SQ. FT.
WATERWAY OPENING PROVIDED	26,240	SQ. FT.
50 YEAR FREQUENCY DISCHARGE	293,000	CU. FS.
50 YEAR HIGH WATER ELEVATION	562.5	
DRAINAGE AREA	99,200	SQ. MI.
MILES FROM MOUTH	1,560	MI.

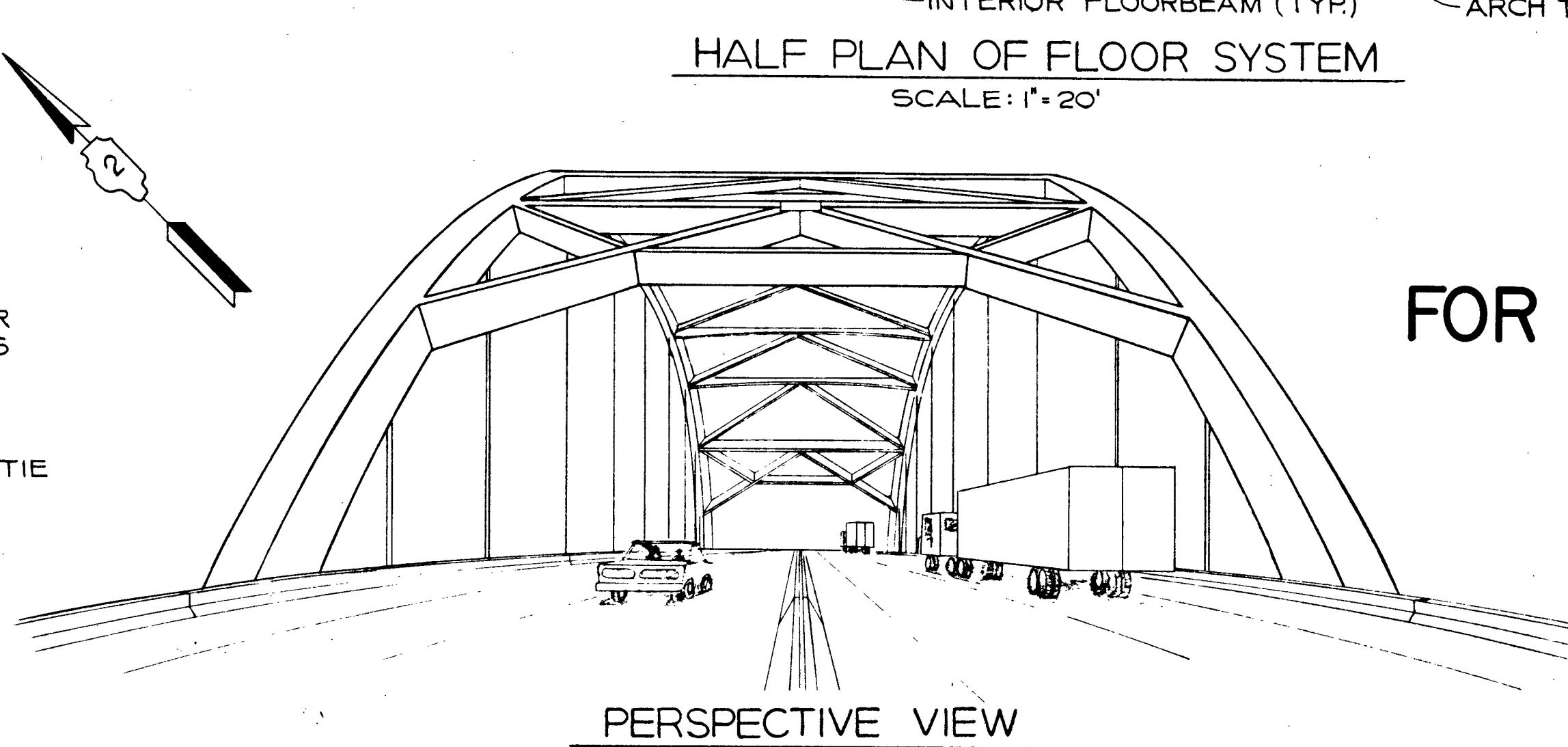
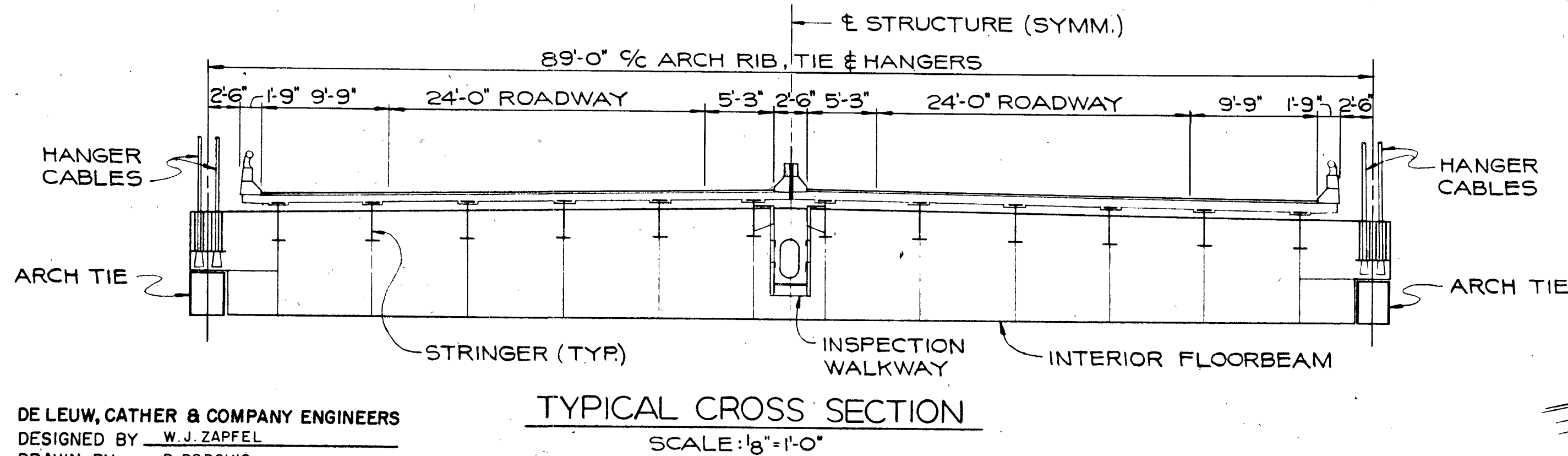
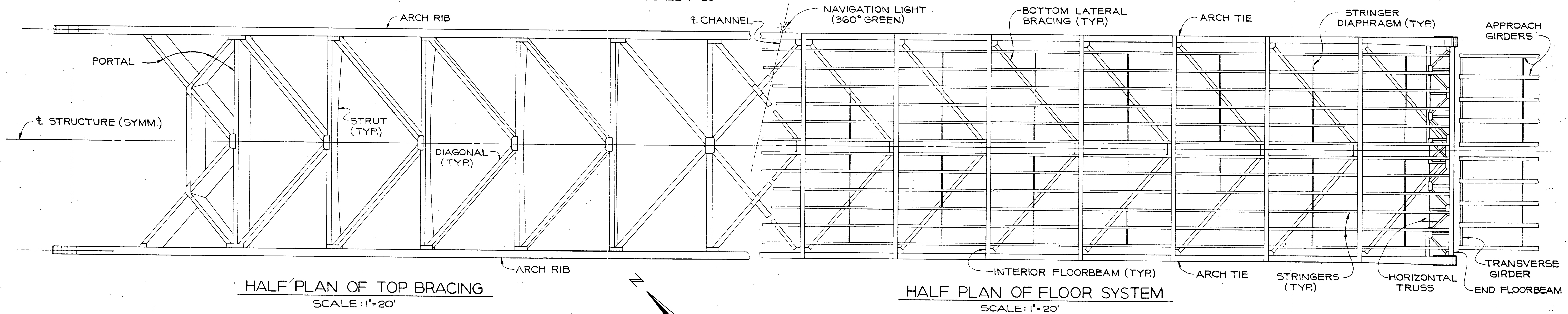
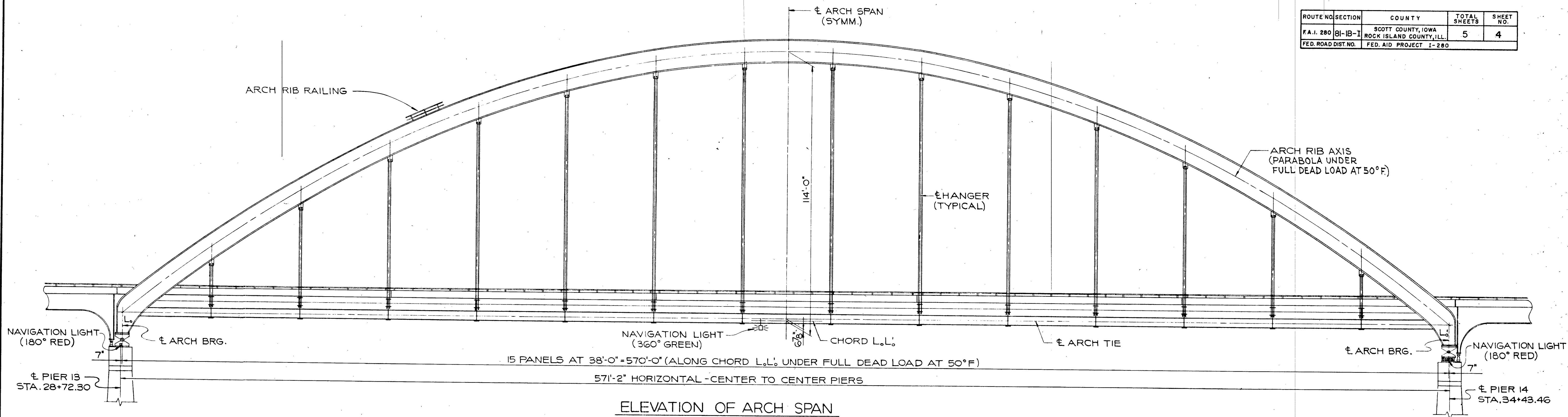
FOR INFORMATION ONLY

GENERAL PLAN AND ELEVATION  
F.A.I. ROUTE 280 SECTION 81-IF & E  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY W.G. HORN  
DRAWN BY A. BURKAS  
CHECKED J.Y. HUANG  
IN CHARGE W.J. ZAPPEL  
APPROVED W.G. HORN



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B-1	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	5	4
FED. ROAD DIST. NO.			FED. AID PROJECT I-280	



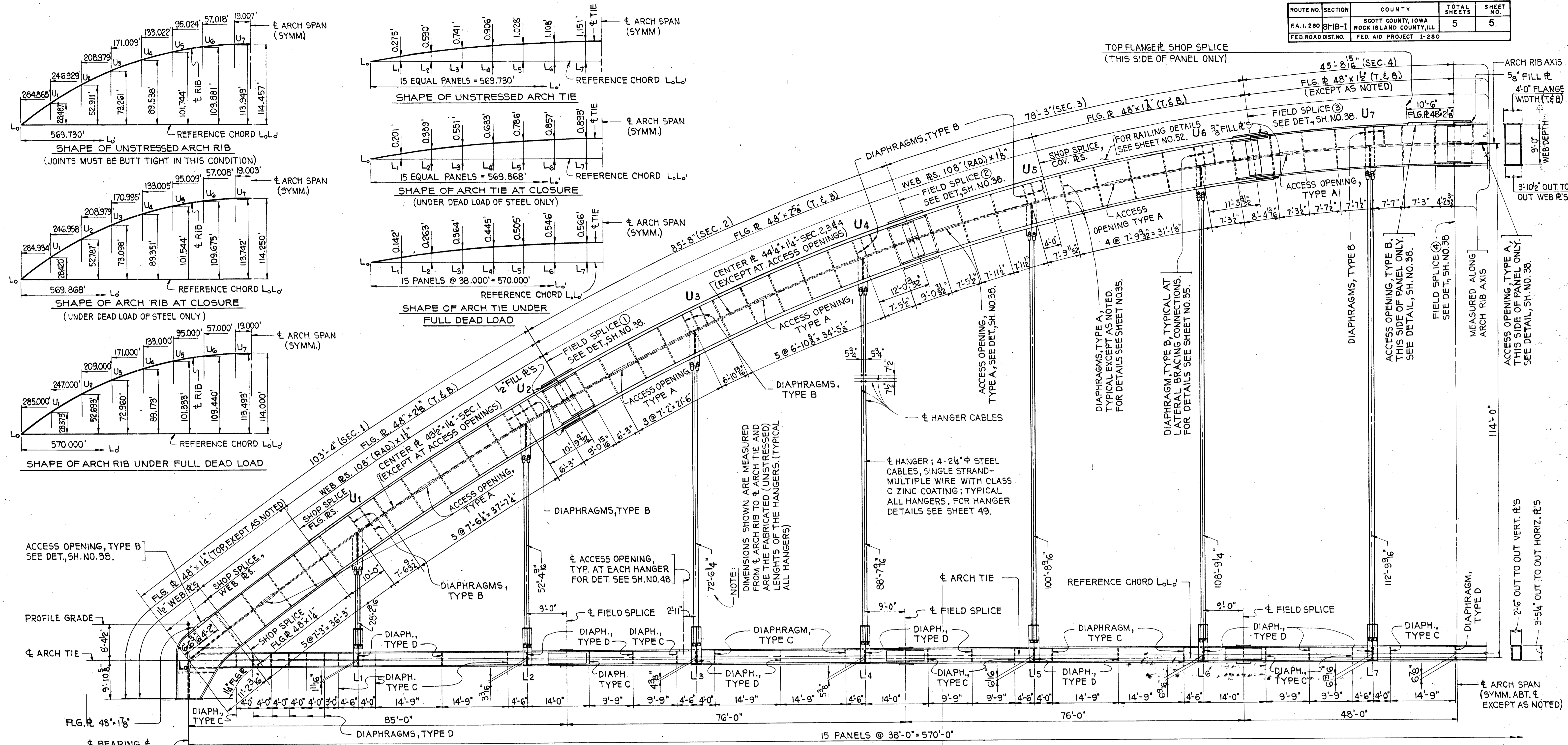
FOR INFORMATION ONLY

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY P. POPOVIC  
 CHECKED W.J. ZAPFEL  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

**GENERAL LAYOUT OF ARCH SPAN UNIT 5**  
 F.A.I. ROUTE 280 SECTION 81-1B-1  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: OCT. 1, 1970



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. I. 280	81-B-I	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	5	5
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



HALF ELEVATION OF ARCH RIB - TIE - HANGERS  
SCALE: 3/32" = 1'-0"

PANEL POINT	HANGER CABLE ELONGATIONS UNDER DEAD LOADS		
	STEEL	CONCRETE & WEARING SURF.	TOTAL
U <sub>1</sub> & U <sub>1</sub> '	0.007	0.013	0.020
U <sub>2</sub> & U <sub>2</sub> '	0.017	0.033	0.050
U <sub>3</sub> & U <sub>3</sub> '	0.025	0.051	0.076
U <sub>4</sub> & U <sub>4</sub> '	0.032	0.064	0.096
U <sub>5</sub> & U <sub>5</sub> '	0.038	0.074	0.112
U <sub>6</sub> & U <sub>6</sub> '	0.041	0.081	0.122
U <sub>7</sub> & U <sub>7</sub> '	0.045	0.084	0.129

**NOTES:**

ALL STRUCTURAL STEEL FOR ARCH RIB & ARCH TIE SHALL BE A.S.T.M. - A588.

UNLESS OTHERWISE NOTED ALL DIMENSIONS SHOWN ARE DIMENSIONS UNDER FULL DEAD LOAD AT 50°F.

ALL DIMENSIONS SHOWN FOR THE ARCH RIB ARE MEASURED ALONG THE ARCH RIB AXIS.

ALL DIMENSIONS SHOWN FOR THE ARCH TIE ARE MEASURED ALONG THE CHORD L<sub>0</sub>L<sub>0</sub>'.

ALL HANGERS SHALL BE VERTICAL UNDER FULL DEAD LOAD.

ALL DIAPHRAGMS OF THE ARCH RIB SHALL BE NORMAL TO THE ARCH RIB AXIS.

THE ARCH RIB & TIE SHALL BE CAMBERED TO GIVE THE TRUE GEOMETRIC CONFIGURATION UNDER FULL DEAD LOAD AT 50°F.

THE ARCH SPAN HAS BEEN DESIGNED AS A TIED ARCH FOR BOTH DEAD LOAD & LIVE LOAD.

ALL MEMBERS CONSTITUTING EACH TIED ARCH TRUSS SHALL BE ASSEMBLED IN THE SHOP AND FIELD BOLT HOLES DRILLED OR REAMED WHILE PARTS ARE ASSEMBLED AND ALL PARTS CORRECTLY MATCHMARKED. ASSEMBLY MAY BE BY SUCCESSIVE OPERATIONS, PROVIDED THE RESULTS OBTAINED ARE EQUIVALENT TO COMPLETE SIMULTANEOUS ASSEMBLY OF EACH TRUSS.

**FOR INFORMATION ONLY**

**ARCH RIB, TIE AND HANGER DATA**

FA. I. ROUTE 280 SECTION 81-IF & E  
1-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: OCT. 1, 1970

DE LEUW, GATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY P. POPOVIC  
CHECKED W.J. ZAPFEL  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

**NOTE:**

THE EFFECT OF HANGER CABLE ELONGATIONS DUE TO DEAD LOADS HAS BEEN INCLUDED IN THE DIAGRAMS SHOWING THE SHAPE OF THE UNSTRESSED ARCH TIE AND THE SHAPE OF THE ARCH TIE AT CLOSURE.



Plan for letting 7-7-72

SEE SHEET 2 FOR INDEX OF SHEETS AND SUMMARY OF QUANTITIES

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

72-H

FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
280	81-ID	ROCK ISLAND	59	1

P-92-040-63

## PLANS FOR PROPOSED FEDERAL AID INTERSTATE HIGHWAY

SCALES

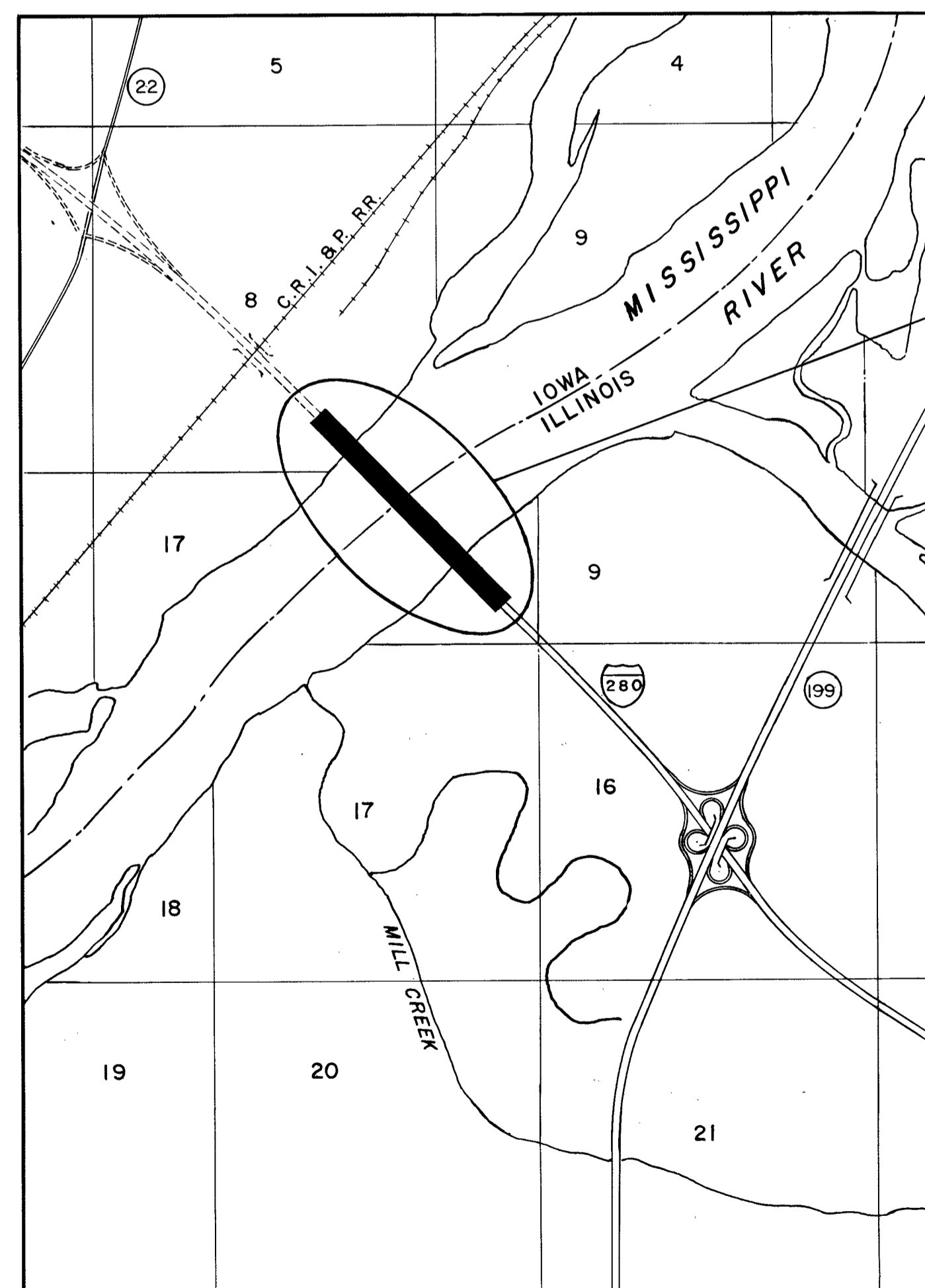
PLAN	1 INCH	50 FT.
PROFILE, HOR.	1 INCH	50 FT.
PROFILE, VERT.	1 INCH	5 FT.
CROSS-SECTIONS	1 INCH	5 FT. VERT. 10 FT. HOR.

F.A.I. ROUTE 280 SECTION 81-ID  
F.A. PROJECT I-280-8(52)0  
ROCK ISLAND COUNTY  
SCOTT COUNTY, IOWA

C-92-004-69



LOCATION OF SECTION INDICATED THIS:—



SECTION 81-ID

INCLUDES THE FURNISHING AND PLACING OF THE STUD SHEAR CONNECTORS, CONSTRUCTION OF THE CONCRETE DECK, WEARING SURFACE, DECK RAILING AND NAVIGATION LIGHTING, FOR THE SUPERSTRUCTURE OF A BRIDGE CONSISTING OF ONE 570 FT. TIED ARCH SPAN AND 27 WELDED GIRDER APPROACH SPANS (7 SPANS @ 100', 3 SPANS @ 150', 3 SPANS @ 200', ... ARCH SPAN ..., 3 SPANS @ 200', 3 SPANS @ 150' AND 8 SPANS @ 100') CARRYING F.A.I. ROUTE 280 OVER THE MISSISSIPPI RIVER BETWEEN STATIONS 11+11.38 AND 53+04.38.

LAYOUT  
SCALE 1" = 2000'

LENGTH OF PROJECT - SECTION 81-ID = 4,193 FT. = 0.794 MILES

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY  
*[Signature]*  
Engineer of Bridge & Traffic Structures

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
SUBMITTED	DEC 8 1970
EXAMINED	MAY 8 1972
PASSED	MAY 8 1972
APPROVED	MAY 8 1972
UNDER SECRETARY, CHIEF TRANSPORTATION ENGINEER	
APPROVED	MAY 8 1972
SECRETARY	

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ENGINEER DATE

STATE OF ILLINOIS  
REGISTERED  
PROFESSIONAL ENGINEER  
WILLIAM G. HORN  
No 2373

CONTRACT NO. 28930

DE LEUW, CATHER & CO. - CHICAGO

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	2
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			

## INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES AND SUMMARY OF QUANTITIES
2A	PERMANENT BENCH MARK
3	GENERAL PLAN AND ELEVATION
4	GENERAL PLAN, ELEVATION AND GROUND PLAN - BRIDGE UNITS 1, 2 AND 3
5	GENERAL PLAN, ELEVATION AND GROUND PLAN - BRIDGE UNITS 4 AND 5
6	GENERAL PLAN, ELEVATION AND GROUND PLAN - BRIDGE UNITS 6 AND 7
7	GENERAL PLAN, ELEVATION AND GROUND PLAN - BRIDGE UNITS 8 AND 9
8	SUPERSTRUCTURE - UNIT 1, SPANS 1 AND 2
9	SUPERSTRUCTURE - UNIT 1, SPANS 2 AND 3
10	SUPERSTRUCTURE - UNIT 1, PARAPET AND RAILING DETAILS
11	SUPERSTRUCTURE - UNIT 2, SPANS 4 AND 5
12	SUPERSTRUCTURE - UNIT 2, SPANS 6 AND 7
13	SUPERSTRUCTURE - UNIT 2, PARAPET AND RAILING DETAILS
14	SUPERSTRUCTURE - UNIT 3, SPANS 8 AND 9
15	SUPERSTRUCTURE - UNIT 3, SPANS 9 AND 10
16	SUPERSTRUCTURE - UNIT 3, PARAPET AND RAILING DETAILS
17	SUPERSTRUCTURE - UNIT 4, SPAN 11
18	SUPERSTRUCTURE - UNIT 4, SPAN 12
19	SUPERSTRUCTURE - UNIT 4, SPAN 13
20	SUPERSTRUCTURE - UNIT 4, PARAPET AND RAILING DETAILS
21	SUPERSTRUCTURE - UNIT 5, SPAN 14 - PART 1 OF 3
22	SUPERSTRUCTURE - UNIT 5, SPAN 14 - PART 2 OF 3
23	SUPERSTRUCTURE - UNIT 5, SPAN 14 - PART 3 OF 3
24	SUPERSTRUCTURE - UNIT 5, PARAPET AND RAILING DETAILS
25	SUPERSTRUCTURE - UNIT 5, DECK DRAIN AND EXPANSION GUARD DETAILS
26	SUPERSTRUCTURE - UNIT 6, SPAN 15
27	SUPERSTRUCTURE - UNIT 6, SPAN 16
28	SUPERSTRUCTURE - UNIT 6, SPAN 17
29	SUPERSTRUCTURE - UNIT 6, PARAPET AND RAILING DETAILS
30	SUPERSTRUCTURE - UNIT 7, SPANS 18 AND 19
31	SUPERSTRUCTURE - UNIT 7, SPANS 19 AND 20
32	SUPERSTRUCTURE - UNIT 7, PARAPET AND RAILING DETAILS
33	SUPERSTRUCTURE - UNIT 8, SPANS 21 AND 22
34	SUPERSTRUCTURE - UNIT 8, SPANS 23 AND 24
35	SUPERSTRUCTURE - UNIT 8, PARAPET AND RAILING DETAILS
36	SUPERSTRUCTURE - UNIT 9, SPANS 25 AND 26
37	SUPERSTRUCTURE - UNIT 9, SPANS 27 AND 28
38	SUPERSTRUCTURE - UNIT 9, PARAPET AND RAILING DETAILS
39	SUPERSTRUCTURE - TYPICAL DETAILS
40	SUPERSTRUCTURE - TYPICAL DETAILS
41	SUPERSTRUCTURE - UNIT 1, DECK ELEVATIONS
42	SUPERSTRUCTURE - UNIT 2, DECK ELEVATIONS
43	SUPERSTRUCTURE - UNIT 3, DECK ELEVATIONS
44	SUPERSTRUCTURE - UNIT 4, DECK ELEVATIONS
45	SUPERSTRUCTURE - UNIT 5, DECK ELEVATIONS - PART 1 OF 2
46	SUPERSTRUCTURE - UNIT 5, DECK ELEVATIONS - PART 2 OF 2
47	SUPERSTRUCTURE - UNIT 6, DECK ELEVATIONS
48	SUPERSTRUCTURE - UNIT 7, DECK ELEVATIONS
49	SUPERSTRUCTURE - UNIT 8, DECK ELEVATIONS
50	SUPERSTRUCTURE - UNIT 9, DECK ELEVATIONS
51	NAVIGATION LIGHTING
52	FRAMING PLAN - UNIT 1
53	FRAMING PLAN - UNIT 2
54	FRAMING PLAN - UNIT 3
55	FRAMING PLAN - UNIT 4
56	FRAMING PLAN - UNIT 6
57	FRAMING PLAN - UNIT 7
58	FRAMING PLAN - UNIT 8
59	FRAMING PLAN - UNIT 9

## GENERAL NOTES

### DESIGN LOADING

HS 20-44 AND ALTERNATE PLUS 25 P.S.F. INITIAL WEARING SURFACE.

### DESIGN SPECIFICATIONS

AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, TENTH EDITION, DATED 1969, AND THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES.

### CONSTRUCTION SPECIFICATIONS

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS, DEPARTMENT OF PUBLIC WORKS AND BUILDINGS, DIVISION OF HIGHWAYS, ADOPTED JANUARY 2, 1971, SUPPLEMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS.

UNLESS OTHERWISE SHOWN, DIMENSIONS ON THE PLANS ARE MEASURED HORIZONTAL AT 50° F.

### DESIGN STRESSES:

CONCRETE:  $f'_c = 3,500$  P.S.I. ULTIMATE STRENGTH IN 14 DAYS

$f_c = 1,200$  P.S.I. WORKING STRENGTH

REINFORCING STEEL:  $f_s = 20,000$  P.S.I.

STRUCTURAL STEEL:  $f_s = 20,000$  P.S.I.

ALL REINFORCEMENT BARS SHALL BE LAPPED 24 DIAMETERS UNLESS OTHERWISE SHOWN.

EXCEPT AS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL STEEL, A.S.T.M. DESIGNATION A-36.

EXCEPT AS OTHERWISE PROVIDED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE (1) SHOP COAT OF PAINT. THE PAINT REQUIRED FOR THE SHOP COAT SHALL BE AS SPECIFIED IN THE SUPPLEMENTAL SPECIFICATIONS FOR THE BASIC LEAD SILICO-CHROMATE PAINT SYSTEM. THE FIELD PAINTING OF THE STRUCTURAL STEEL IS NOT INCLUDED IN THIS CONTRACT.

THE EXPOSED SURFACES OF THE EXPANSION GUARDS SHALL BE GIVEN TWO (2) SHOP COATS OF PAINT. THE CONTACT SURFACES SHALL BE GIVEN ONE (1) COAT OF PAINT. ANCHOR STUDS SHALL NOT BE PAINTED.

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

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH COAL TAR INTERLAYER PROTECTIVE COAT IS APPLIED.

THE CONTRACTOR SHALL PLACE TWO (2) PERMANENT BENCH MARKS, TYPE I ON THE BRIDGE AS DIRECTED BY THE ENGINEER.

## SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
406008	BITUMINOUS CONCRETE SURFACE COURSE, CLASS 1	TON	3,057.5
503004	PROTECTIVE COAT	SQ. YD.	5,839
507025	STUD SHEAR CONNECTORS	EACH	76,840
508005	ALUMINUM RAILING	LIN. FT.	8,382
512001	REINFORCEMENT BARS	POUND	2,608,420
XZ1100	TRAINEES	HOUR	2,000
Z10178	COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	36,238
Z10277	PERMANENT BENCH MARK, TYPE I	EACH	2
LO4947	NAVIGATION LIGHTING	LUMP SUM	1
Z10294	PREFORMED JOINT SEALER	LIN. FT.	337
507001	F. & E. STRUCTURAL STEEL	LBS.	16,400
XZ1073	BRIDGE SEAT SEALER **	LUMP SUM	1

SUMMARY OF QUANTITIES (CONT.)

NOTES: \* COST OF CLASS "X" CONCRETE SHALL INCLUDE THE COST OF ALUMINUM DRAINS AND ALUMINUM SHEETS IN UNITS 1 THROUGH 4, AND UNITS 6 THROUGH 9; 1-INCH DIAMETER ANCHOR BOLTS AS DETAILED IN UNIT 9; ERECTION OF ACCESS LADDERS ON UNIT 5; ERECTION OF CURB PLATES OF THE EXPANSION DEVICES AT PIERS 3, 10, 24, 7, 17, 20, 13 AND 14.

\*\* TO BE APPLIED TO ABUTMENTS AND PIERS 3, 7, 10, 13, 14, 17, 20 AND 24. ESTIMATED AREA OF BRIDGE SEAT SEALER TO BE COATED = 4,940 SQ. FT.

CODE NO.	ITEM	UNIT	QUANTITY
	ALTERNATE "A"		
X50402	CLASS X CONCRETE (ALTERNATE A) *	CU. YD.	10,853.6
	ALTERNATE "B"		
X50403	CLASS X CONCRETE (ALTERNATE B) *	CU. YD.	10,853.6

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY \_\_\_\_\_  
DRAWN BY H. de PERCZEL  
CHECKED A. MILUNAS  
IN CHARGE W. J. ZAPFEL  
APPROVED W. G. HORN

## INDEX OF SHEETS, GENERAL NOTES AND SUMMARY OF QUANTITIES

F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.

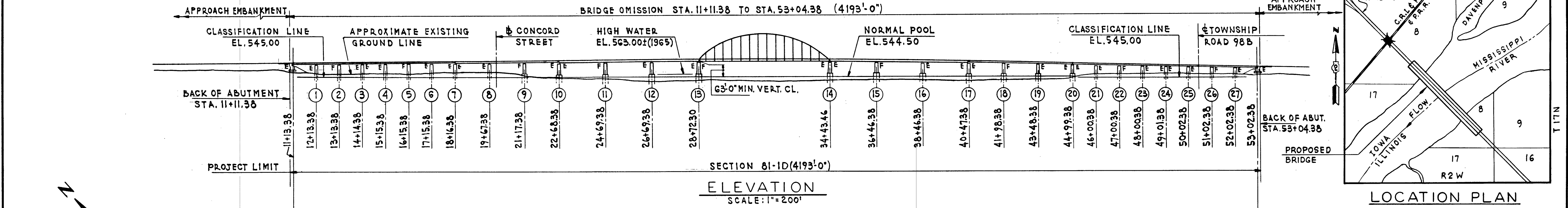
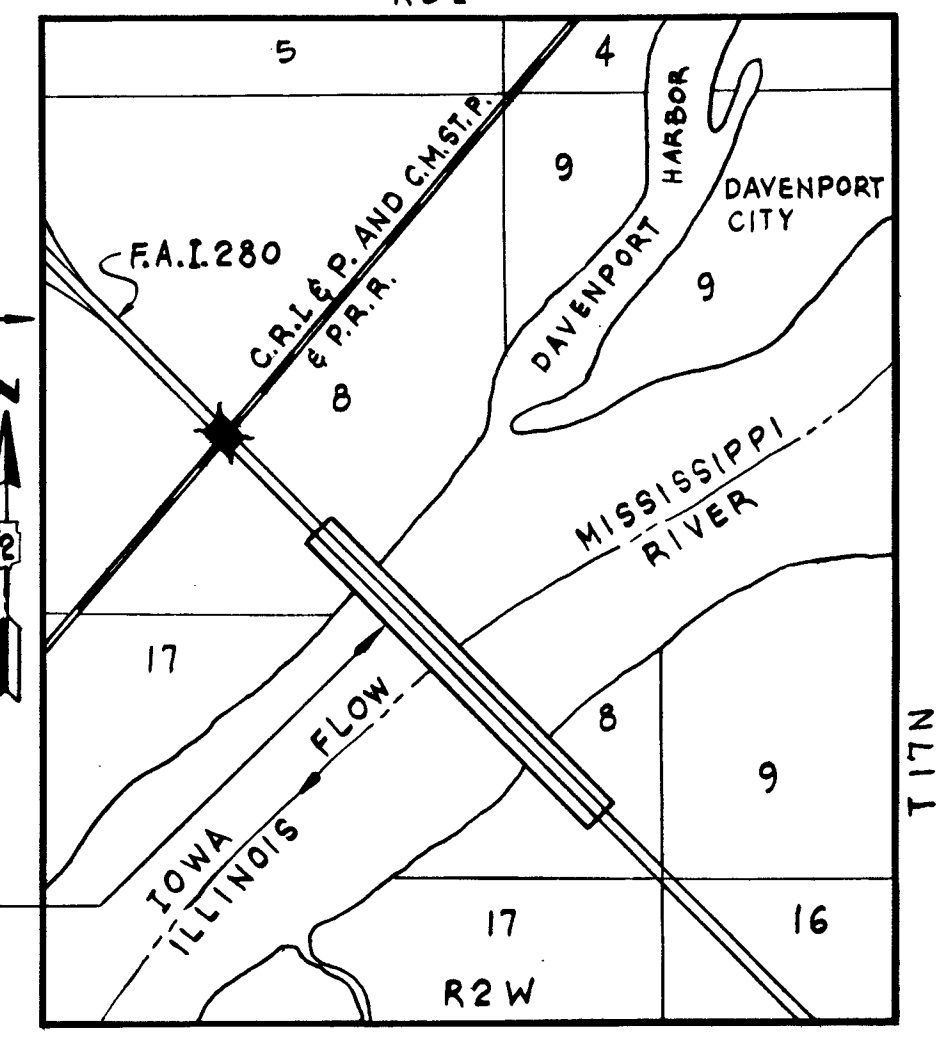
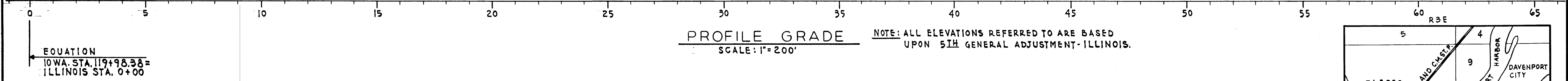
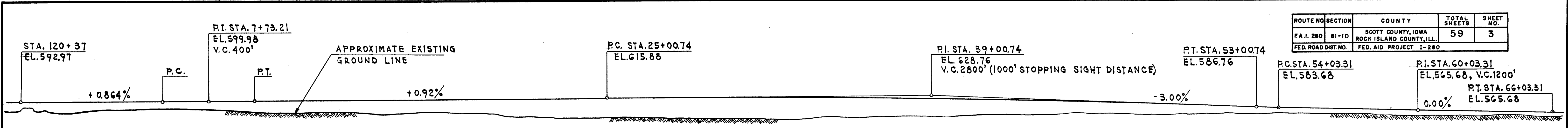
STA. 11 + 11.38 TO STA. 53 + 04.38

SCALE: AS NOTED DATE: NOV. 16, 1970

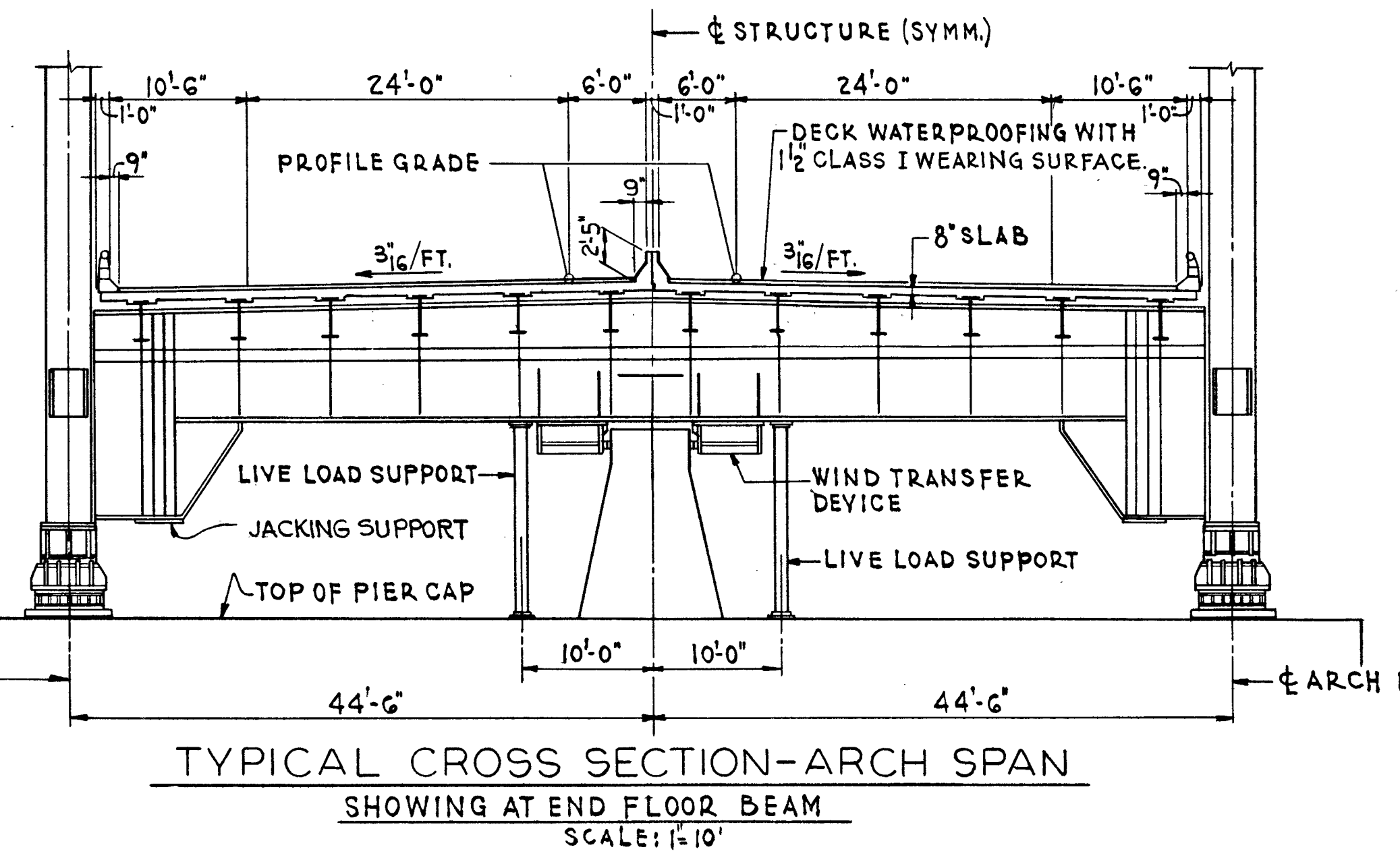
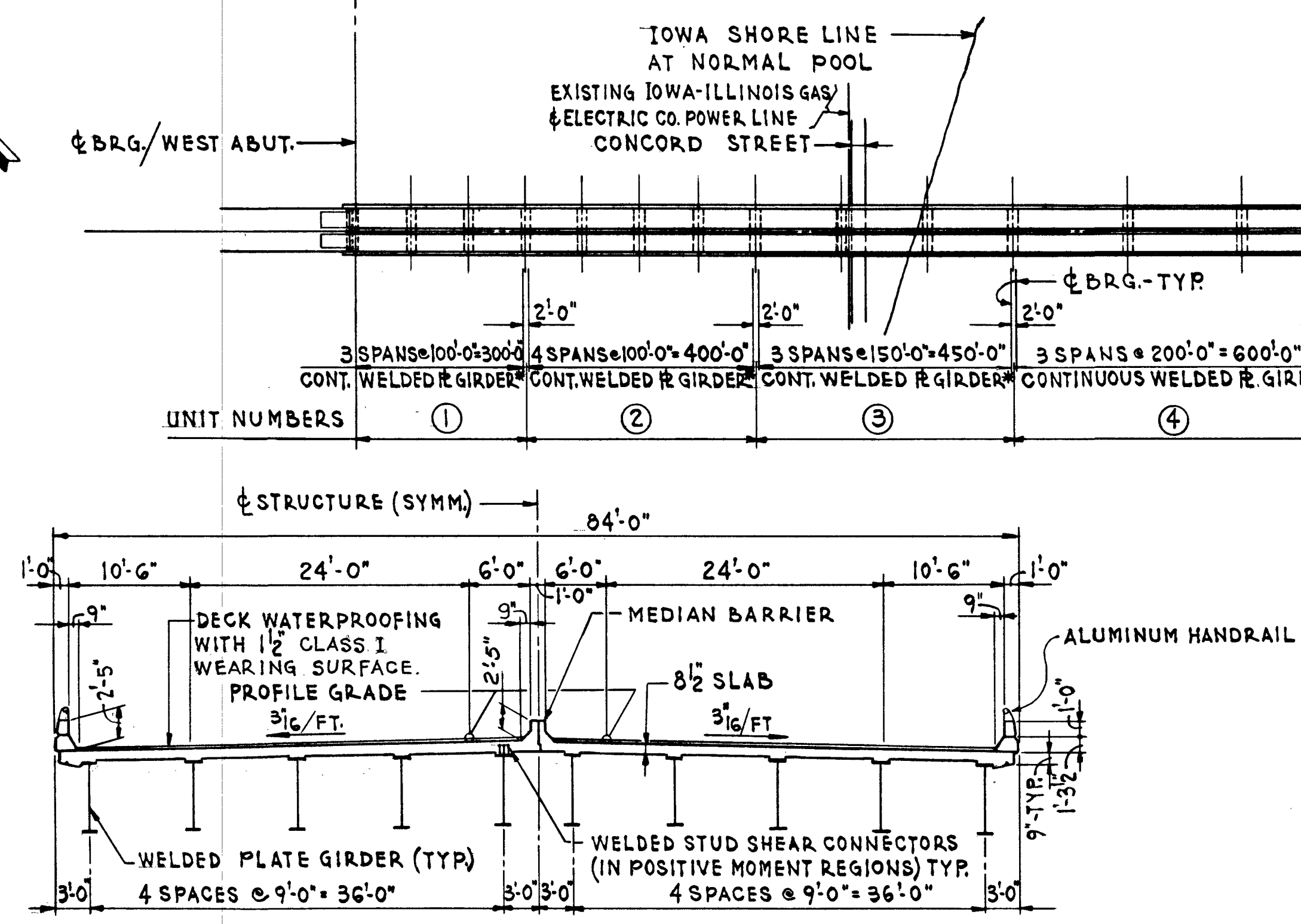
Rev. 6-23-72 Rev. 7-8-72



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	3
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		



SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITY
BITUMINOUS CONCRETE SURFACE COURSE, CLASS I	TON	3,057.5
PROTECTIVE COAT	SQ. YD.	5,839
CLASS "X" CONCRETE	CU. YD.	10,853.6
STUD SHEAR CONNECTORS	EACH	76,840
ALUMINUM RAILING	LIN. FT.	8,382
REINFORCEMENT BARS	POUND	2,608,420
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	36,238
PERMANENT BENCH MARK, TYPE I	EACH	2
NAVIGATION LIGHTING	LUMP SUM	
PREFORMED JOINT SEALER	LIN. FT.	337
BRIDGE SEAT SEALER	LUMP SUM	
F. & E. STRUCTURAL STEEL	LBS.	16,400



NOTES:  
 CERTAIN ITEMS OF WORK SHOWN ON THESE DRAWINGS ARE SHOWN FOR INFORMATION ONLY.  
 THE CONTRACT COVERS THE FURNISHING AND PLACING OF THE STUD SHEAR CONNECTORS, CONSTRUCTION OF THE CONCRETE DECK, WEARING SURFACE, DECK RAILING, NAVIGATION LIGHTING, PLUS ADDITIONAL ITEMS OF WORK AS DEFINED IN THE SPECIAL PROVISIONS.  
 THE CONSTRUCTION OF SUBSTRUCTURE; THE FABRICATION AND ERECTION OF THE STRUCTURAL STEEL FOR THE SUPERSTRUCTURE; AND THE FIELD PAINTING OF THE STRUCTURAL STEEL ARE COVERED UNDER SEPARATE CONTRACTS AND THEREFORE ARE NOT PART OF THESE PLANS.

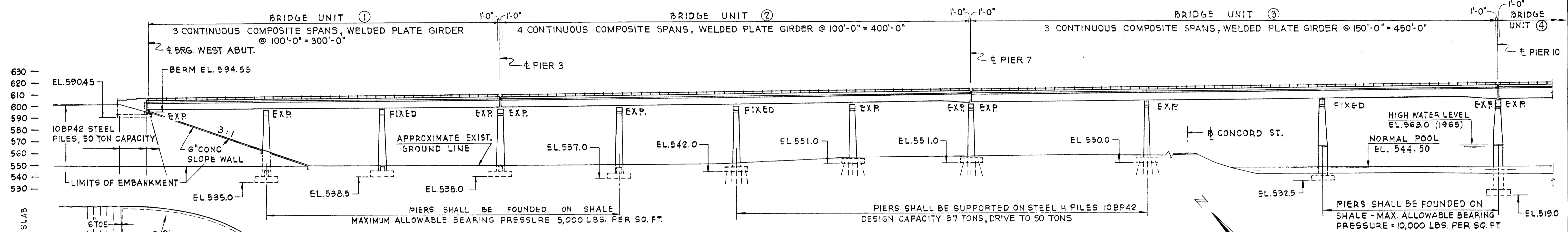
WATERWAY INFORMATION

WATERWAY OPENING REQUIRED	26,000 SQ. FT.
WATERWAY OPENING PROVIDED	26,240 SQ. FT.
50 YEAR FREQUENCY DISCHARGE	293,000 CU. FS.
50 YEAR HIGH WATER ELEVATION	562.5
DRAINAGE AREA	99,200 SQ. MI.
MILES FROM MOUTH	1,560 MI.

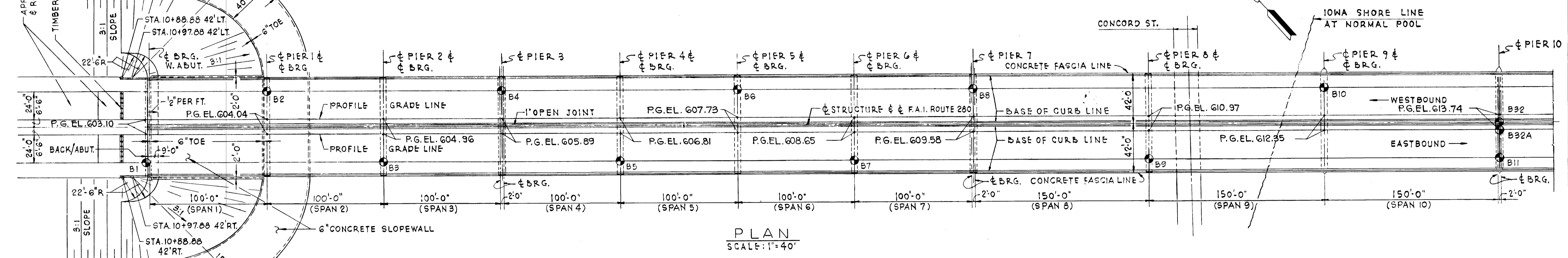
GENERAL PLAN AND ELEVATION  
 F.A.I. ROUTE 280 SECTION 81-ID  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970

DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W.G. HORN  
 DRAWN BY A. BUROKAS  
 CHECKED BY J.Y. HUANG  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

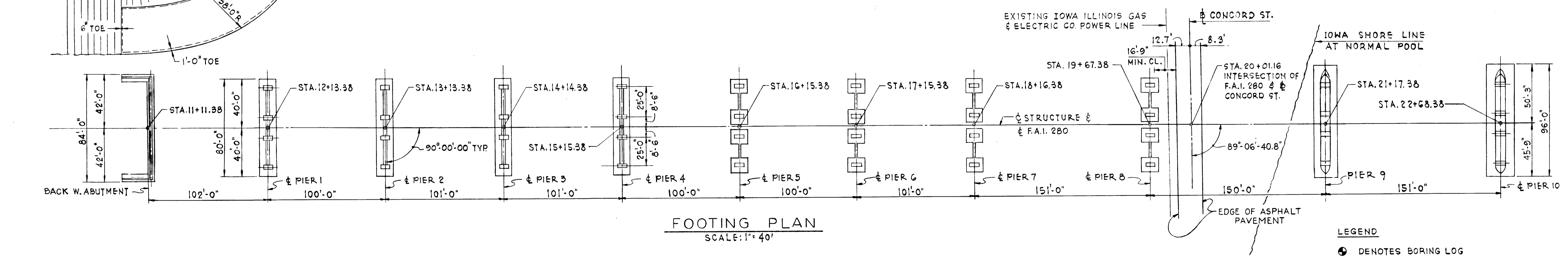
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	4
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



**ELEVATION**  
SCALE: 1"=40'



**PLAN**  
SCALE: 1"=40'



**FOOTING PLAN**  
SCALE: 1"=40'

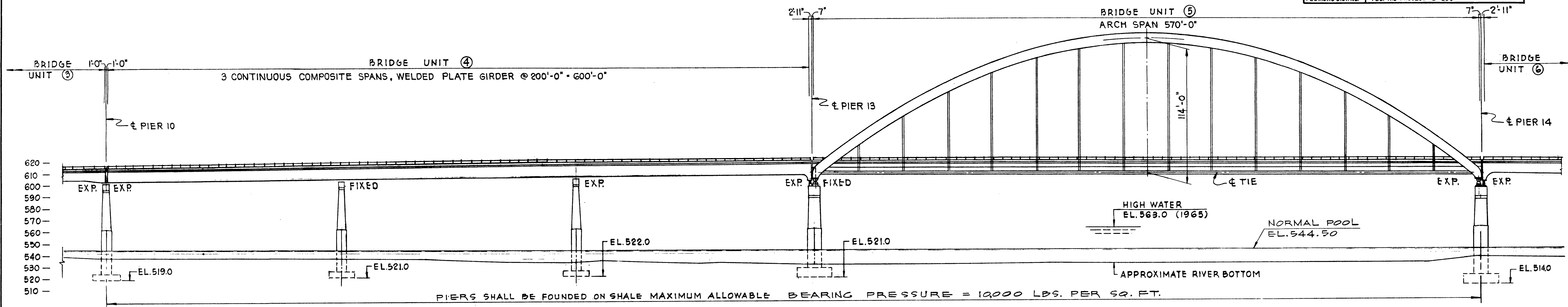
**NOTE:**  
FOR SUPERSTRUCTURE PLAN & DETAILS UNITS 1, 2 AND 3,  
SEE SHEETS NO. 8 THROUGH 16.

**GENERAL PLAN, ELEVATION & GROUND PLAN**  
**BRIDGE UNITS 1, 2 & 3**  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
**SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.**  
STA. 11 + 13.38 TO STA. 22 + 68.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

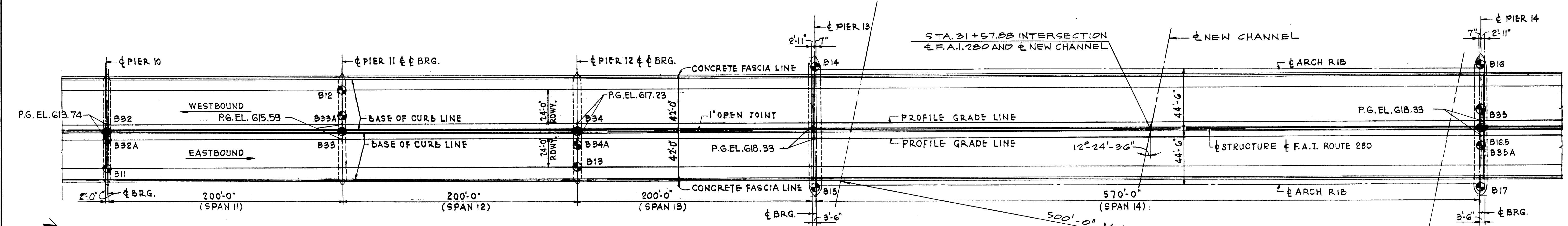
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.G. HORN  
DRAWN BY A. BUROKAS  
CHECKED  
IN CHARGE W.J. ZAPPEL  
APPROVED W.G. HORN



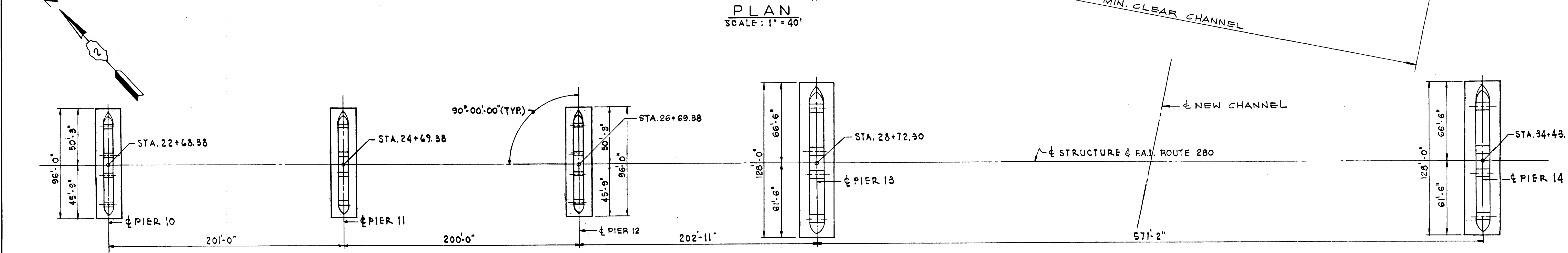
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	5
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



**ELEVATION**  
SCALE: 1" = 40'



**PLAN**  
SCALE: 1" = 40'



**FOOTING PLAN**  
SCALE: 1" = 40'

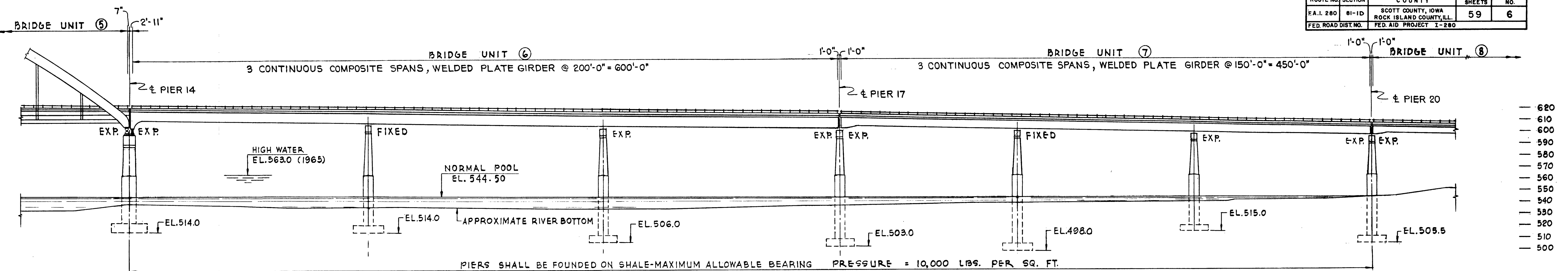
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.G. HORN  
DRAWN BY A. BUROKAS  
CHECKED \_\_\_\_\_  
IN CHARGE W.J. ZAPPEL  
APPROVED W.G. HORN

**LEGEND**  
⊕ DENOTES BORING LOG

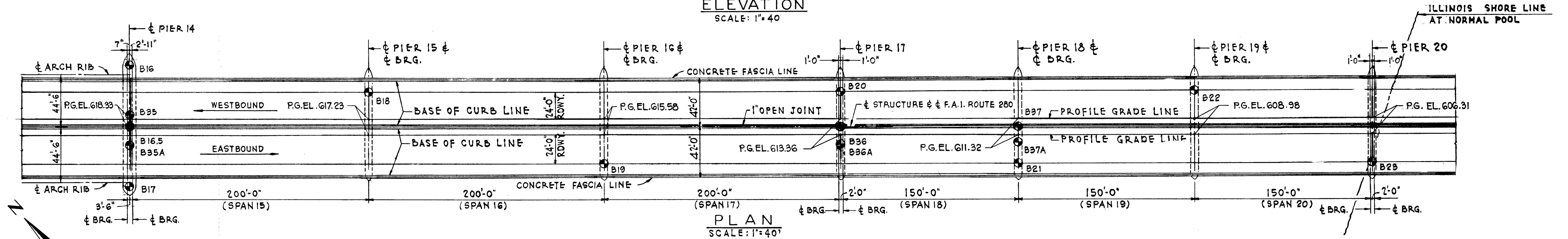
**NOTES:**  
FOR SUPERSTRUCTURE PLAN AND DETAILS UNIT 4, SEE SH'S. NO. 17 THROUGH 20.  
FOR ARCH SPAN SUPERSTRUCTURE PLAN AND DETAILS UNIT 5, SEE SH'S. NO. 21 THROUGH 25.

**GENERAL PLAN, ELEVATION & GROUND PLAN**  
**BRIDGE UNITS 4 & 5**  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 22+68.38 TO STA. 34+43.46  
SCALE: AS NOTED DATE: NOV. 16, 1970

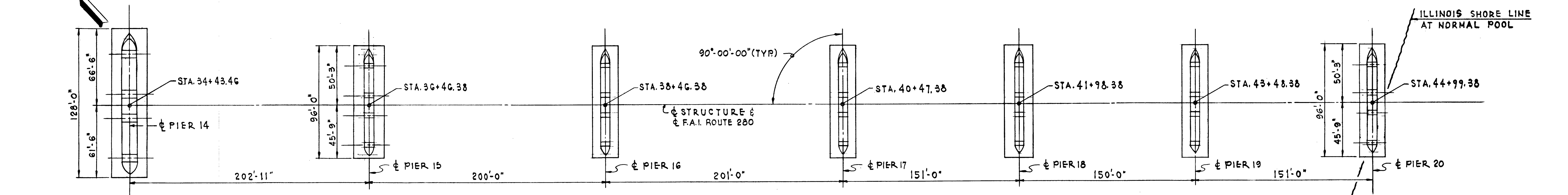
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	6
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



**ELEVATION**  
SCALE: 1" = 40'



**PLAN**  
SCALE: 1" = 40'



**FOOTING PLAN**  
SCALE: 1" = 40'

**LEGEND**  
● DENOTES BORING LOG

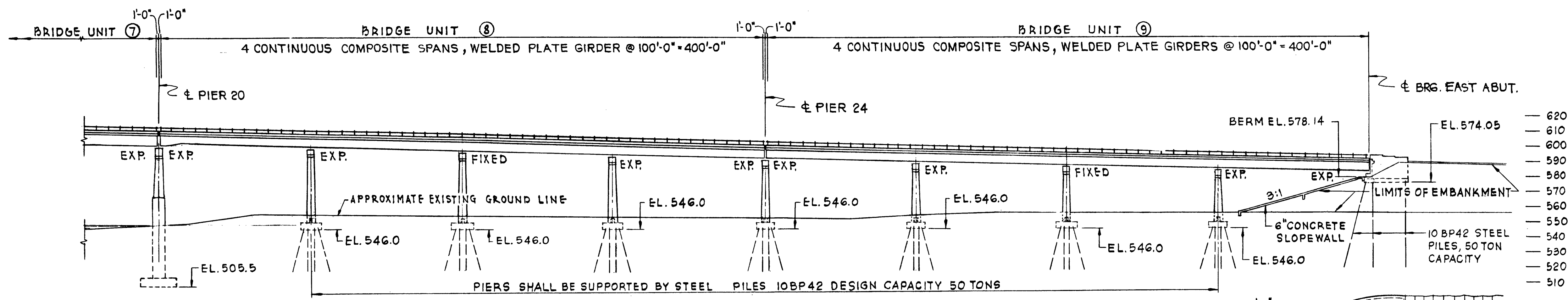
**NOTE:**  
FOR SUPERSTRUCTURE PLAN AND DETAILS UNITS 6 & 7, SEE SH'S. NO. 26 THROUGH 32.

**GENERAL PLAN, ELEVATION & GROUND PLAN**  
**BRIDGE UNITS 6 & 7**  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 34+43.46 TO STA. 44+99.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.G. HORN  
DRAWN BY A. BUROKAS  
CHECKED W.J. ZAPFEL  
IN CHARGE  
APPROVED W.G. HORN

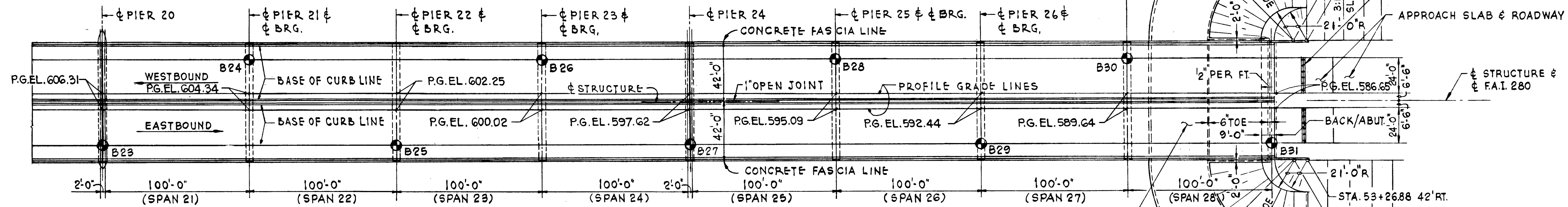


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	7
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



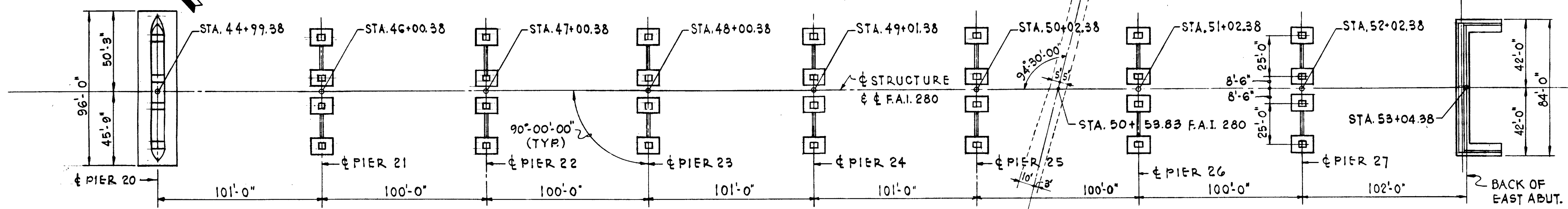
**ELEVATION**

SCALE: 1" = 40'



**PLAN**

SCALE: 1" = 40'



**FOOTING PLAN**

SCALE: 1" = 40'

**LEGEND**  
 ● DENOTES BORING LOG

**NOTE:**  
 FOR SUPERSTRUCTURE PLAN AND DETAILS-UNITS 8 & 9, SEE SH'S. NO. 33 THROUGH 38.

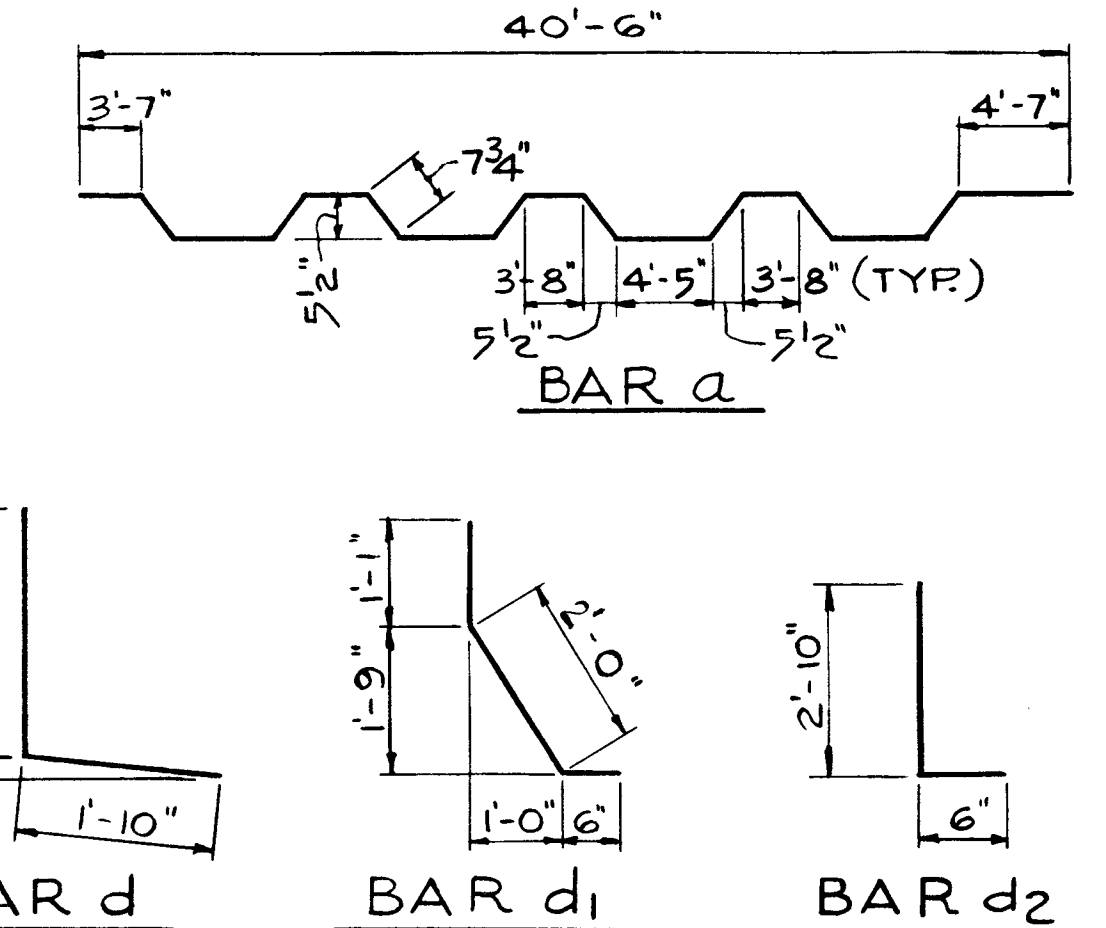
DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W. G. HORN  
 DRAWN BY A. BUROKAS  
 CHECKED \_\_\_\_\_  
 IN CHARGE W. J. ZAPFEL  
 APPROVED W. G. HORN

**GENERAL PLAN, ELEVATION & GROUND PLAN**  
**BRIDGE UNITS 8 & 9**  
 F.A.I. ROUTE 280 SECTION 81-1D  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 44+99.38 TO STA. 53+02.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970

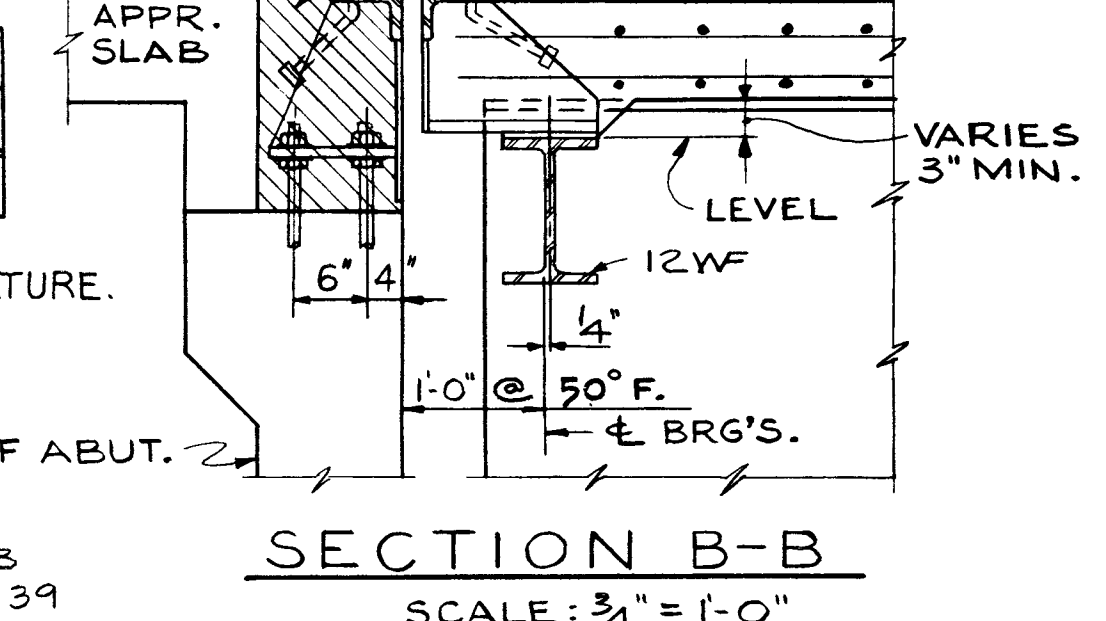
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	8
FED. ROAD DIST. NO.	FED. AID PROJECT	1-280	

BAR LIST						
BAR	QUANTITY		TOTAL	SIZE	LENGTH	SHAPE
	N.B.	S.B.				
a	258	258	516	6	42'-0"	W
a1	514	514	1028	6	40'-6"	W
a2	258	258	516	6	4'-0"	W
a3	258	258	516	6	4'-3"	W
b11	1	1	2	5	3'-3"	W
b12	1	1	2	5	2'-10"	W
b14	18	18	36	8	29'-7"	W
b15	816	816	1632	5	32'-0"	W
b16	16	16	32	5	15'-9"	W
b17	12	12	24	8	15'-9"	W
b18	84	84	168	6	40'-0"	W
b19	24	24	48	5	29'-1"	W
b20	204	204	408	5	28'-3"	W
b21	8	8	16	5	34'-6"	W
b22	6	6	12	8	34'-11"	W
d	320	320	640	4	4'-7"	W
d1	634	634	1268	5	3'-7"	W
d2	305	305	610	5	3'-4"	W

NOTES:  
 BARS INDICATED THUS 39 x 4 - #5 ETC. INDICATES 39 LINES OF BARS WITH 4 LENGTHS PER LINE. MIN. BAR LAP = 24 DIA. ALL BAR DIMENSIONS ARE OUT TO OUT.

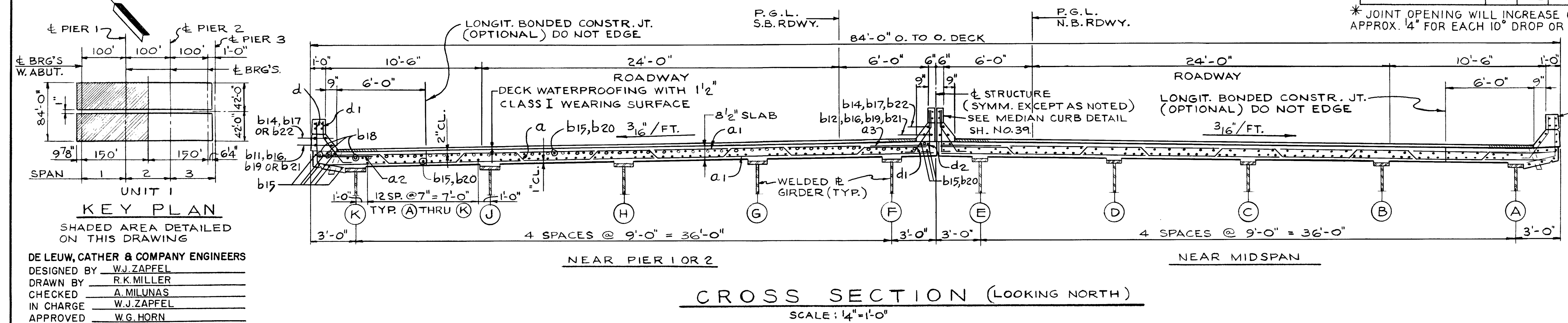
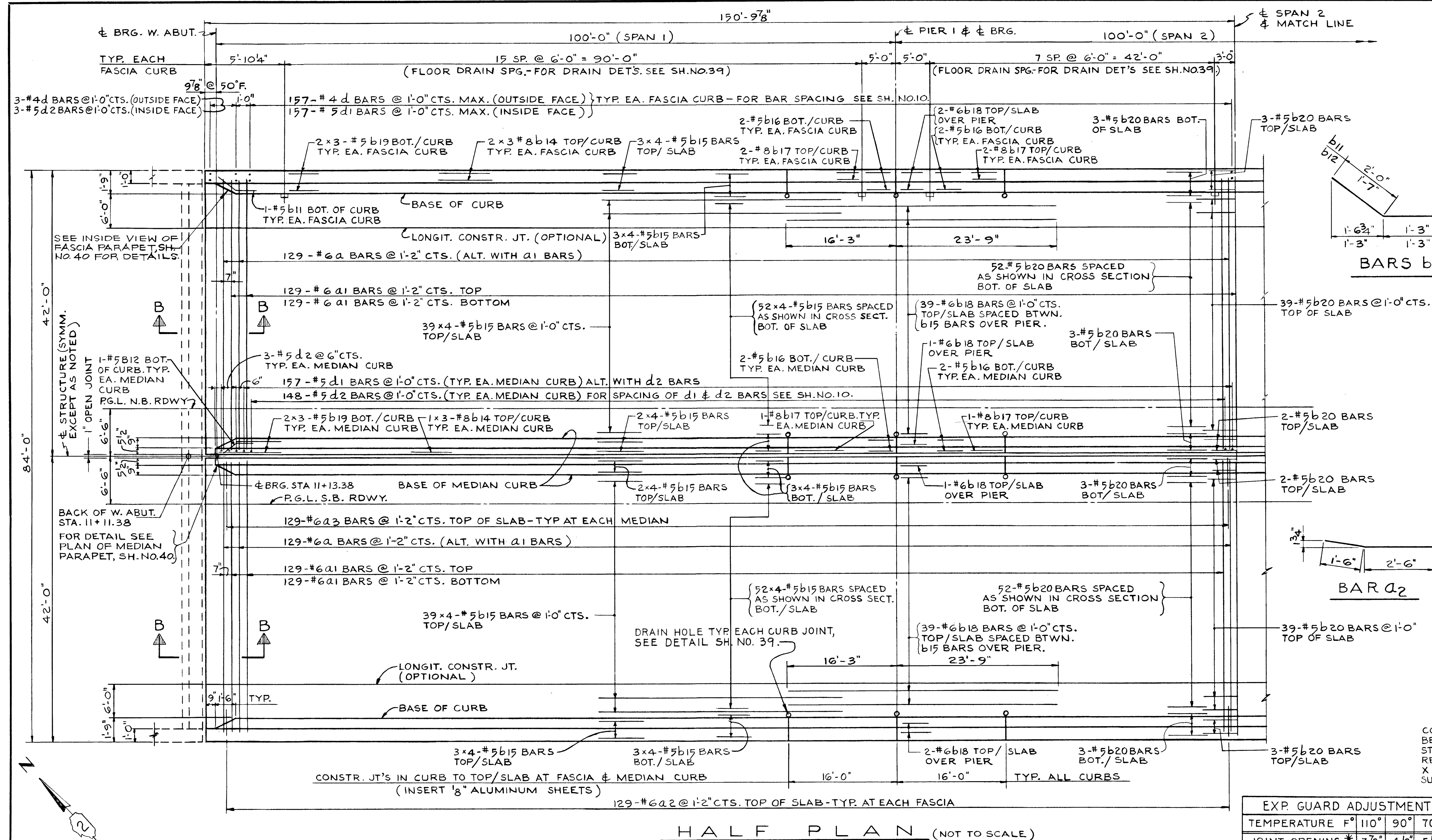


CONCRETE IN SHADED AREA TO BE POURED AFTER ALL SUPERSTRUCTURE FORMS HAVE BEEN REMOVED. QUANTITIES OF CLASS X CONCRETE INCLUDED WITH SUPERSTRUCTURE.



NOTE: WORK THIS SHEET WITH SHT'S. NO. 9 & 10. FOR SUGGESTED POURING SEQUENCE SEE SH. NO. 9.

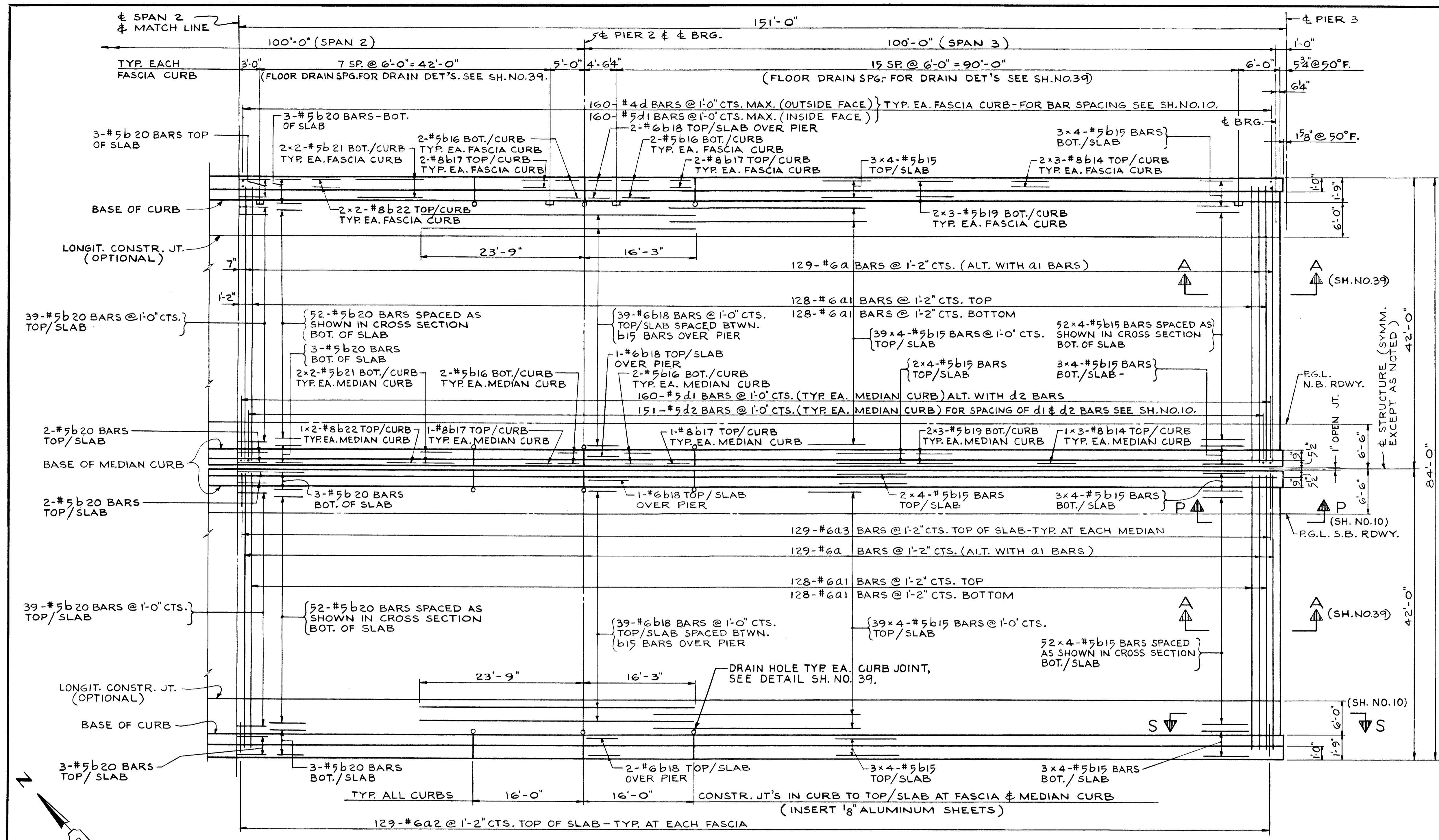
**SUPERSTRUCTURE - UNIT I SPANS 1 & 2**  
 F.A.I. ROUTE 280 SECTION 81-1D  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970



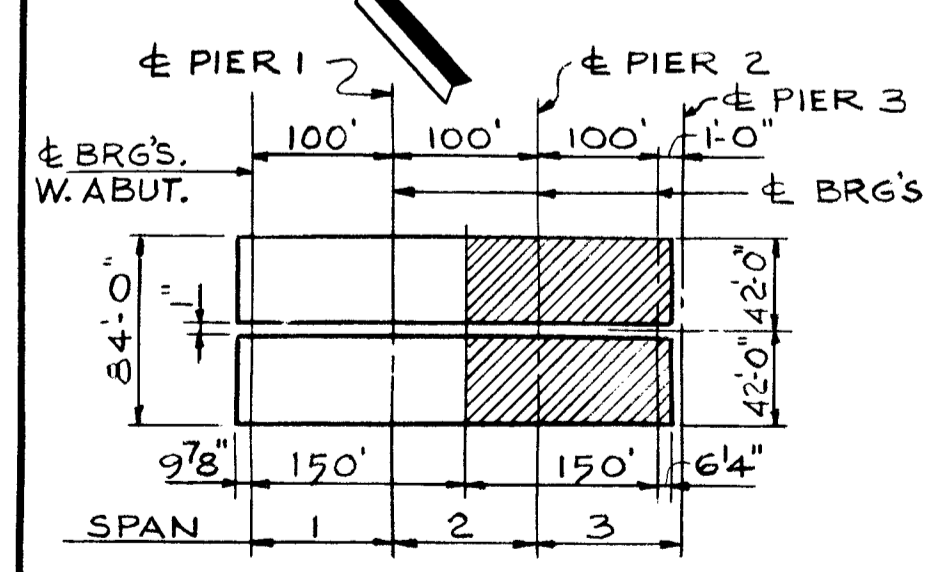
DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY R.K. MILLER  
 CHECKED BY A. MILUNAS  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	9
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	

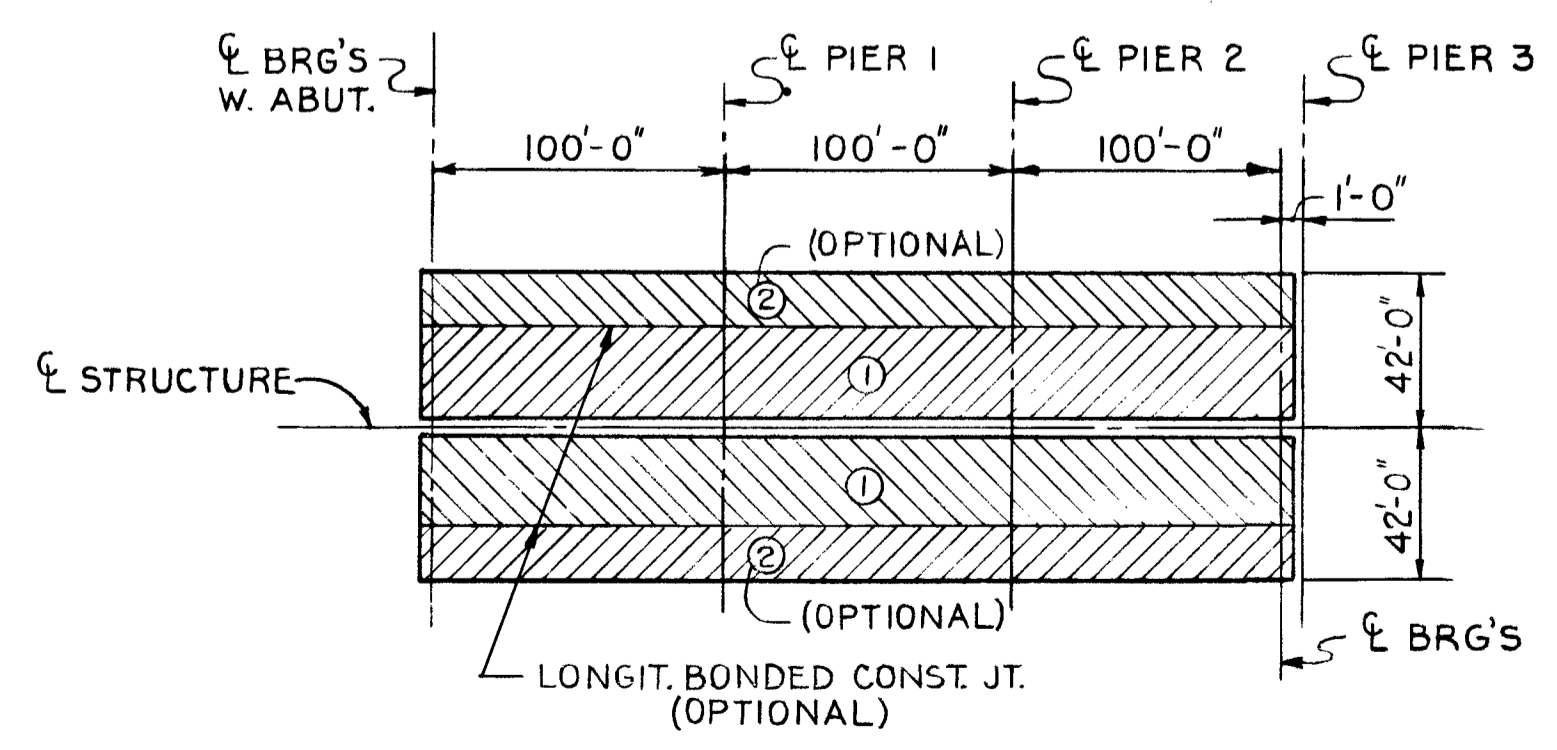


HALF PLAN (NOT TO SCALE)



KEY PLAN

DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY R.K. MILLER  
 CHECKED A. MILUNAS  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN



SUGGESTED POURING SEQUENCE

UNIT 1 - SPANS 1 THRU 3  
 (NOT TO SCALE)

NOTE:  
 FOR FASCIA AND MEDIAN CURB SECTIONS, FLOOR DRAINS, ALUMINUM SHEETS, DECK WATERPROOFING DETAILS AND METHOD OF DETERMINING FILLET HEIGHT "t", SEE SH. NO. 39. WORK THIS SHEET WITH SH. NO. 8 & 10.

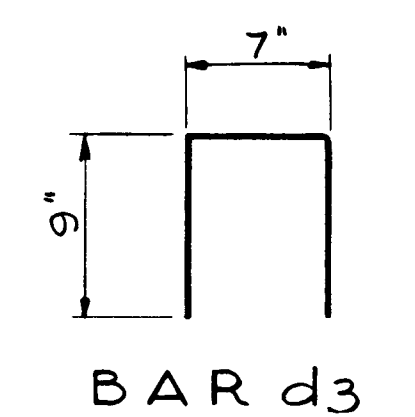
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE *	CU. YD.	680.4
REINFORCEMENT BARS *	POUND	195,260
PROTECTIVE COAT	SQ. YD.	417.2
BITUMINOUS CONCRETE SURFACE COURSE CLASS I (1 1/2" THICK)	TON	220.4
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	2,612

\* THE PARAPET CONCRETE & REINF. QUANTITIES ARE NOT INCLUDED. SEE SH. NO. 10.

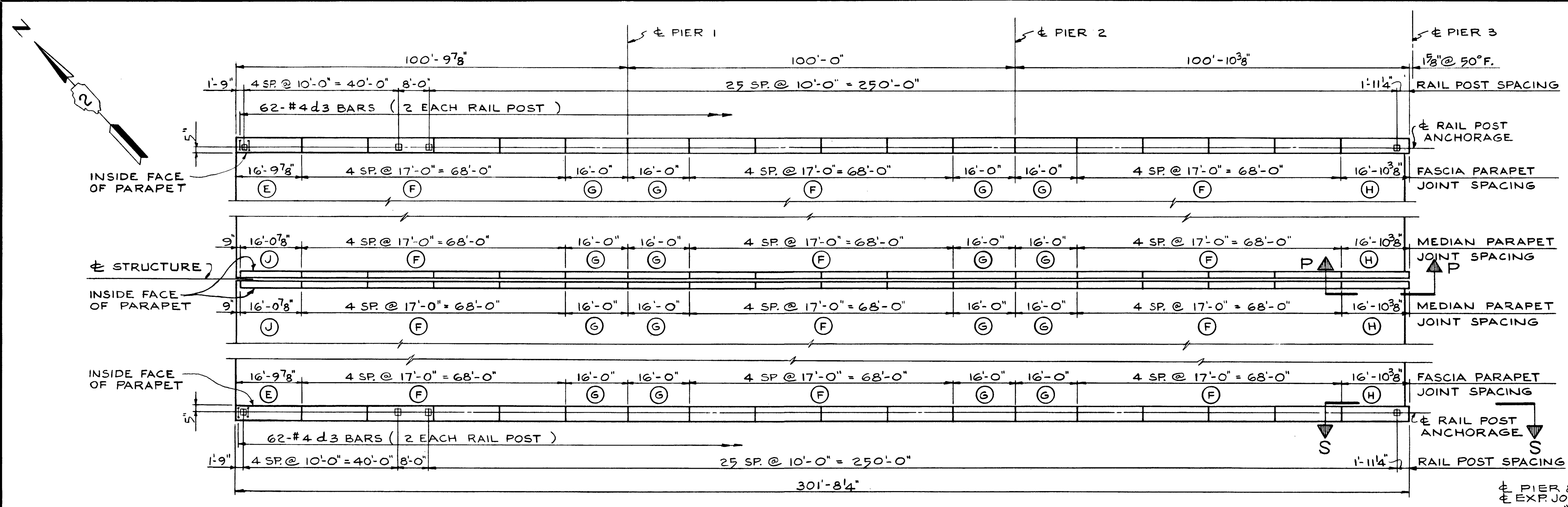
**SUPERSTRUCTURE - UNIT 1**  
**SPANS 2 & 3**  
 F.A.I. ROUTE 280 SECTION 81-1D  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	10
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			

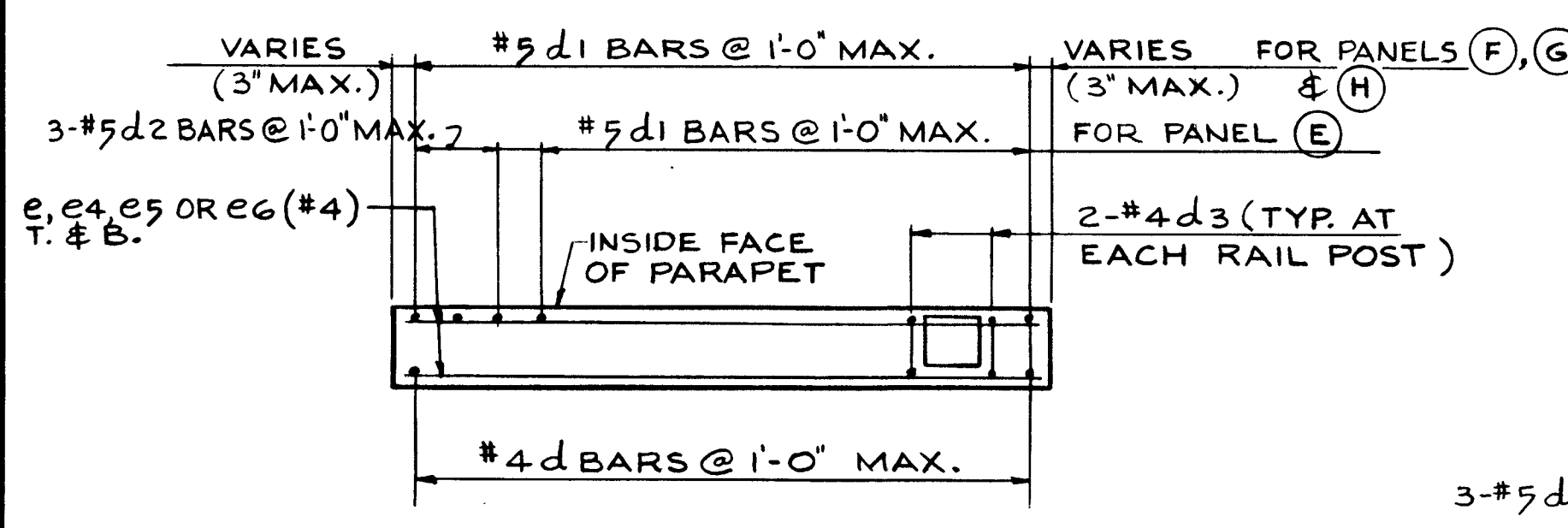
BAR LIST					
BAR	QUANTITY		TOTAL SIZE	LENGTH	SHAPE
	N.B.	S.B.			
e	10	10	20	4	16'-7"
e4	72	72	144	4	16'-8"
e5	26	26	52	4	15'-10"
d3	62	62	124	4	2'-1"



NOTE:  
FOR RAILING AND PARAPET JOINT DETAILS SEE SH. NO. 40.  
WORK THIS SHEET WITH SH'S. NO. 8 & 9.

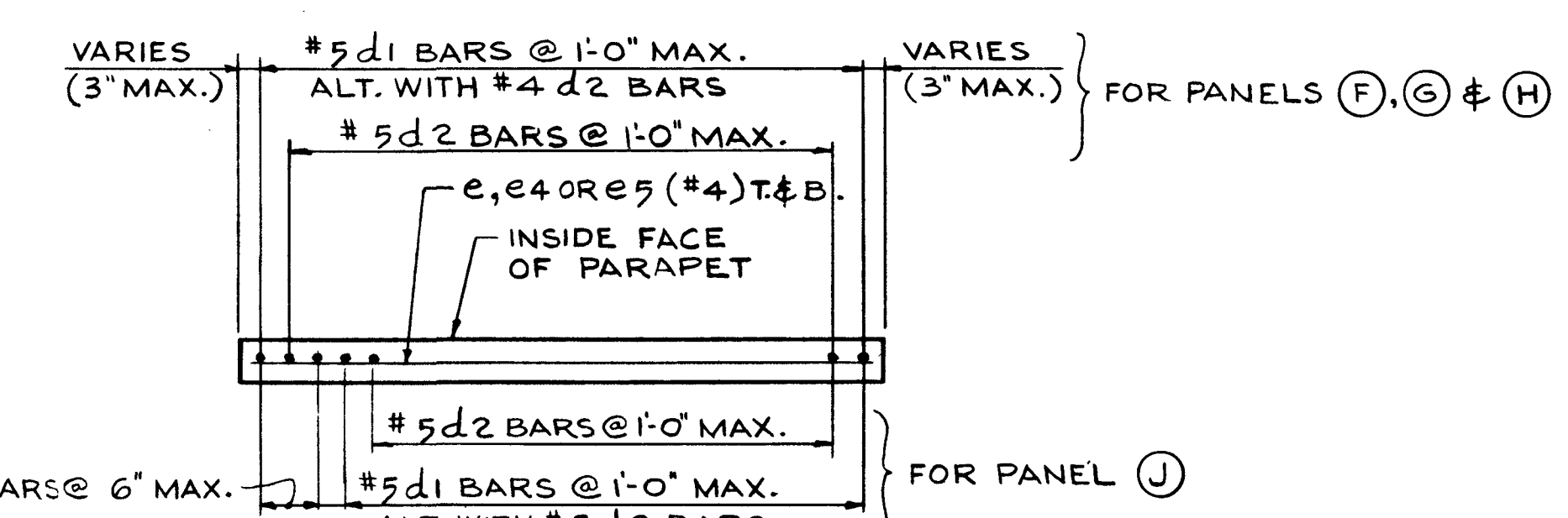


PLAN



PLAN-TYPICAL FASCIA PARAPET PANEL REINFORCEMENT (SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL	
			VERTICAL *	HORIZONTAL
N. BOUND	(E)	1	18-#4d   15-#5d1   3-#5d2	4-#4e
	(F)	12	18-#4d   18-#5d1	4-#4e4
	(G)	4	17-#4d   17-#5d1	4-#4e5
	(H)	1	18-#4d   18-#5d1	4-#4e
S. BOUND	(E)	1	18-#4d   15-#5d1   3-#5d2	4-#4e
	(F)	12	18-#4d   18-#5d1	4-#4e4
	(G)	4	17-#4d   17-#5d1	4-#4e5
	(H)	1	18-#4d   18-#5d1	4-#4e

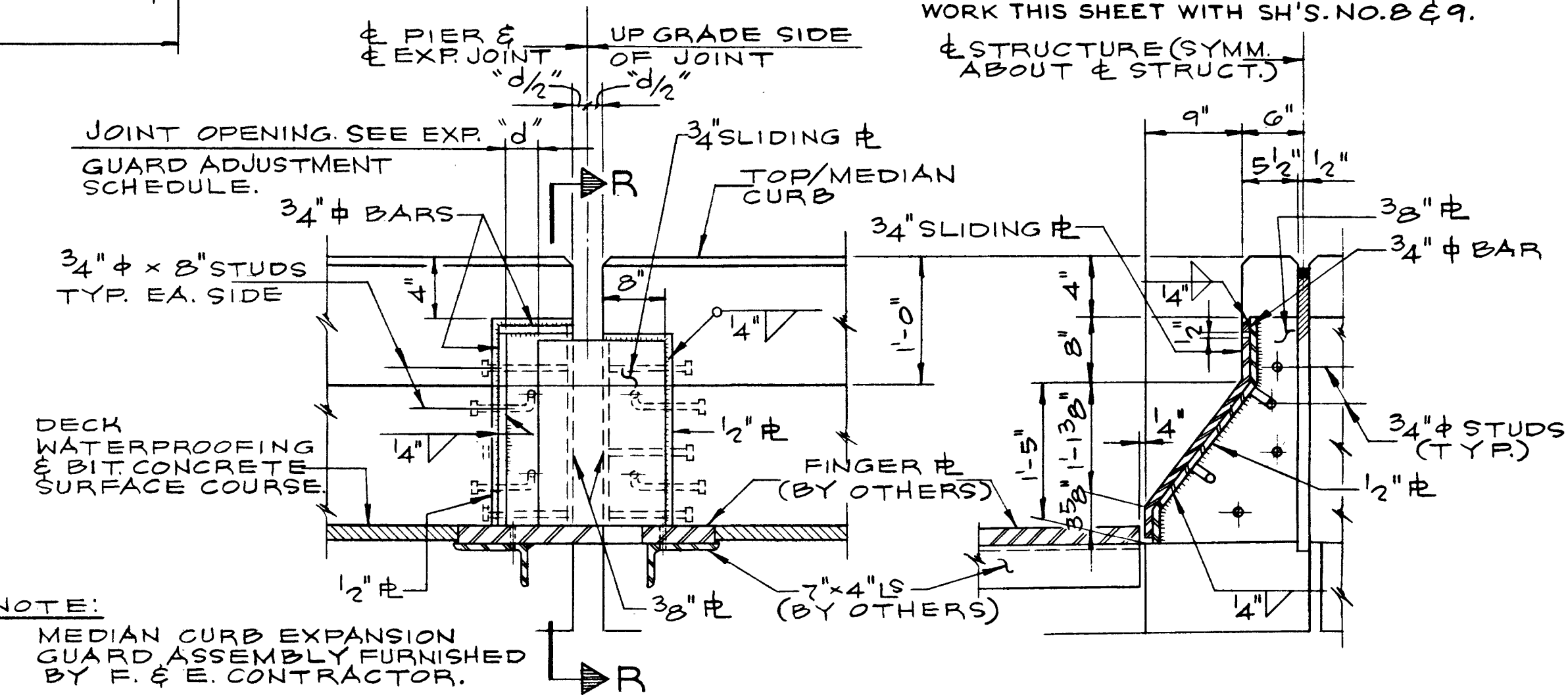


PLAN-TYPICAL MEDIAN PARAPET PANEL REINFORCEMENT (SEE TABLE BELOW)

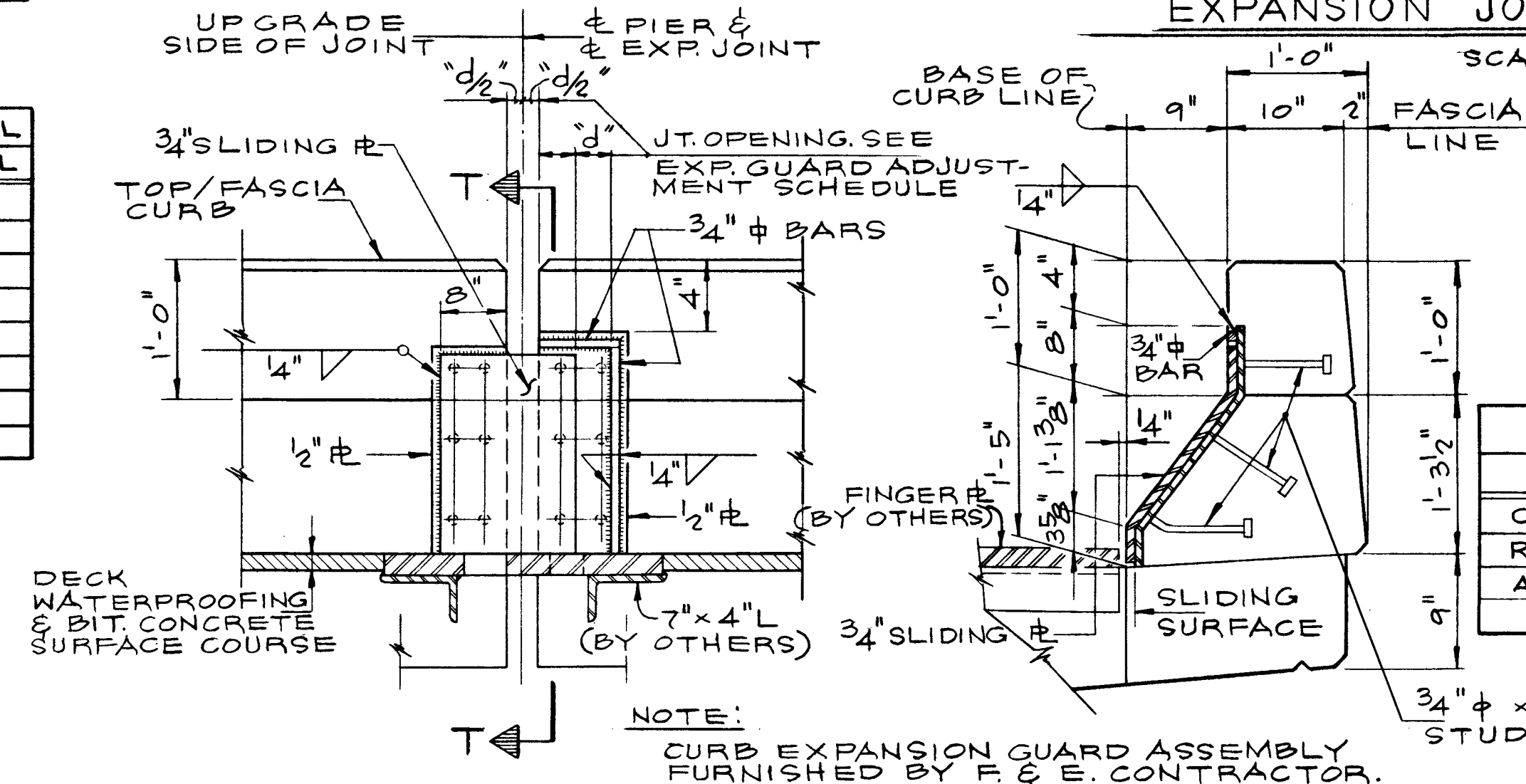
LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL	
			VERTICAL *	HORIZONTAL
N. BOUND	(J)	1	15-#5d1   17-#5d2	2-#4e5
	(F)	12	18-#5d1   17-#5d2	2-#4e4
	(G)	4	17-#5d1   16-#5d2	2-#4e5
	(H)	1	18-#5d1   17-#5d2	2-#4e
S. BOUND	(J)	1	15-#5d1   17-#5d2	2-#4e5
	(F)	12	18-#5d1   17-#5d2	2-#4e4
	(G)	4	17-#5d1   16-#5d2	2-#4e5
	(H)	1	18-#5d1   17-#5d2	2-#4e

\* - BARS d, d1 & d2 ARE DETAILED AND BILLED ON SH. NO. 8

EXP. GUARD ADJUSTMENT SCHEDULE						
TEMPERATURE °F	110°	90°	70°	50°	30°	10°
JT. OPENING @ PIERS 3 & 24	13 3/4"	2"	2 3/4"	3 1/4"	3 3/8"	4 1/2"
JT. OPENING @ PIER 10	15 1/2"	2 1/2"	2 1/8"	3 1/4"	3 3/8"	4 3/8"
JT. OPENING @ PIERS 7 & 20	17 1/2"	2 1/8"	2 3/16"	4 1/4"	5"	5 3/8"
JT. OPENING @ PIER 17	11 1/8"	2 1/2"	3 3/8"	4 1/4"	5 1/8"	6"
JT. OPENING @ PIER 13	11 1/2"	3 3/8"	4 1/8"	5 3/4"	6 3/8"	7 3/8"
JT. OPENING @ PIER 14	3 7/8"	4 1/2"	5 1/8"	5 3/4"	6 3/8"	7"



SECTION P-P EXPANSION JOINT AT MEDIAN CURB SCALE: 1" = 1'-0"



SECTION S-S EXPANSION JOINT AT FASCIA CURB SCALE: 1" = 1'-0"

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	101.6
REINFORCEMENT BARS	POUND	2,547
ALUMINUM RAILING	LIN. FT.	604

SUPERSTRUCTURE - UNIT I  
PARAPET & RAILING DETAILS  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

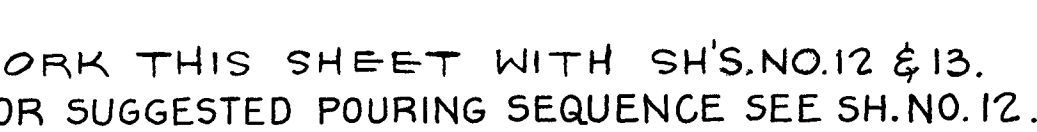
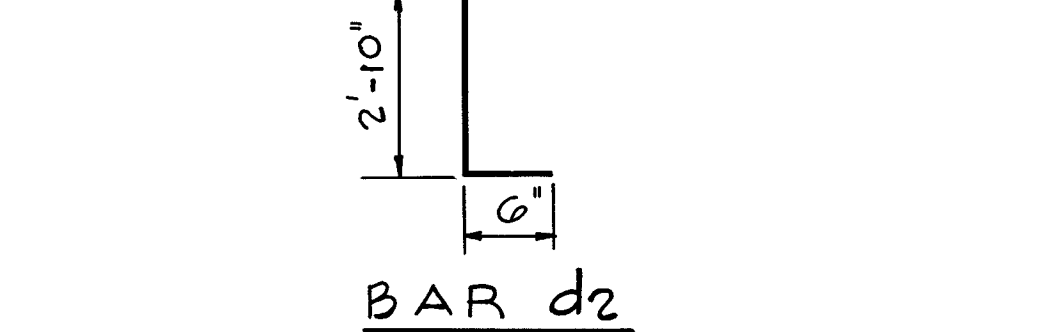
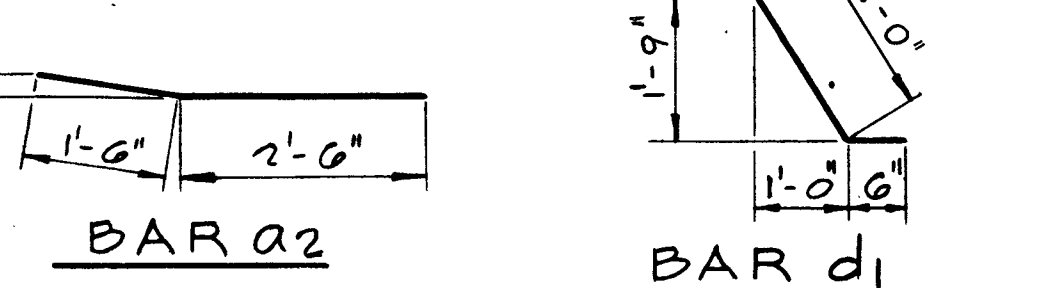
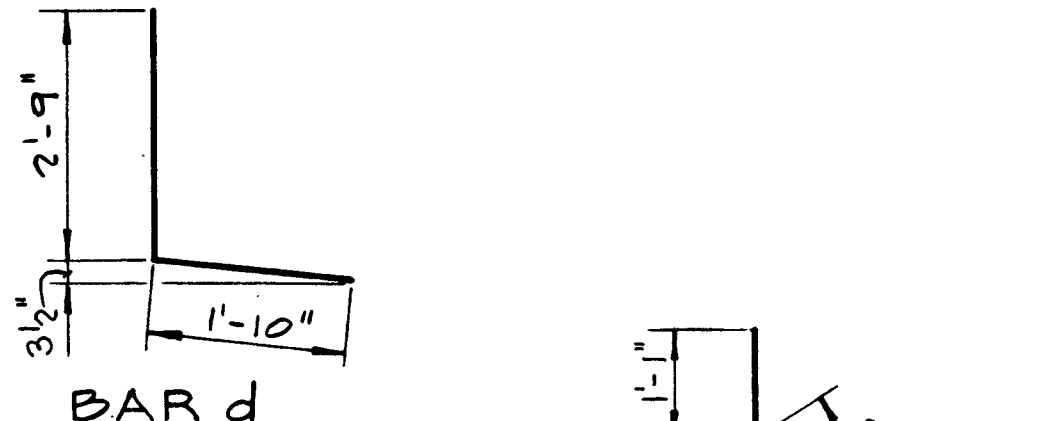
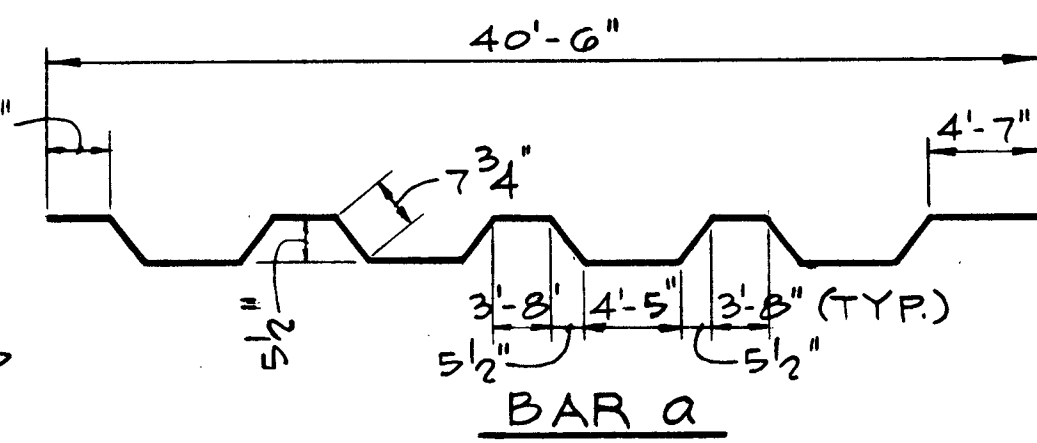
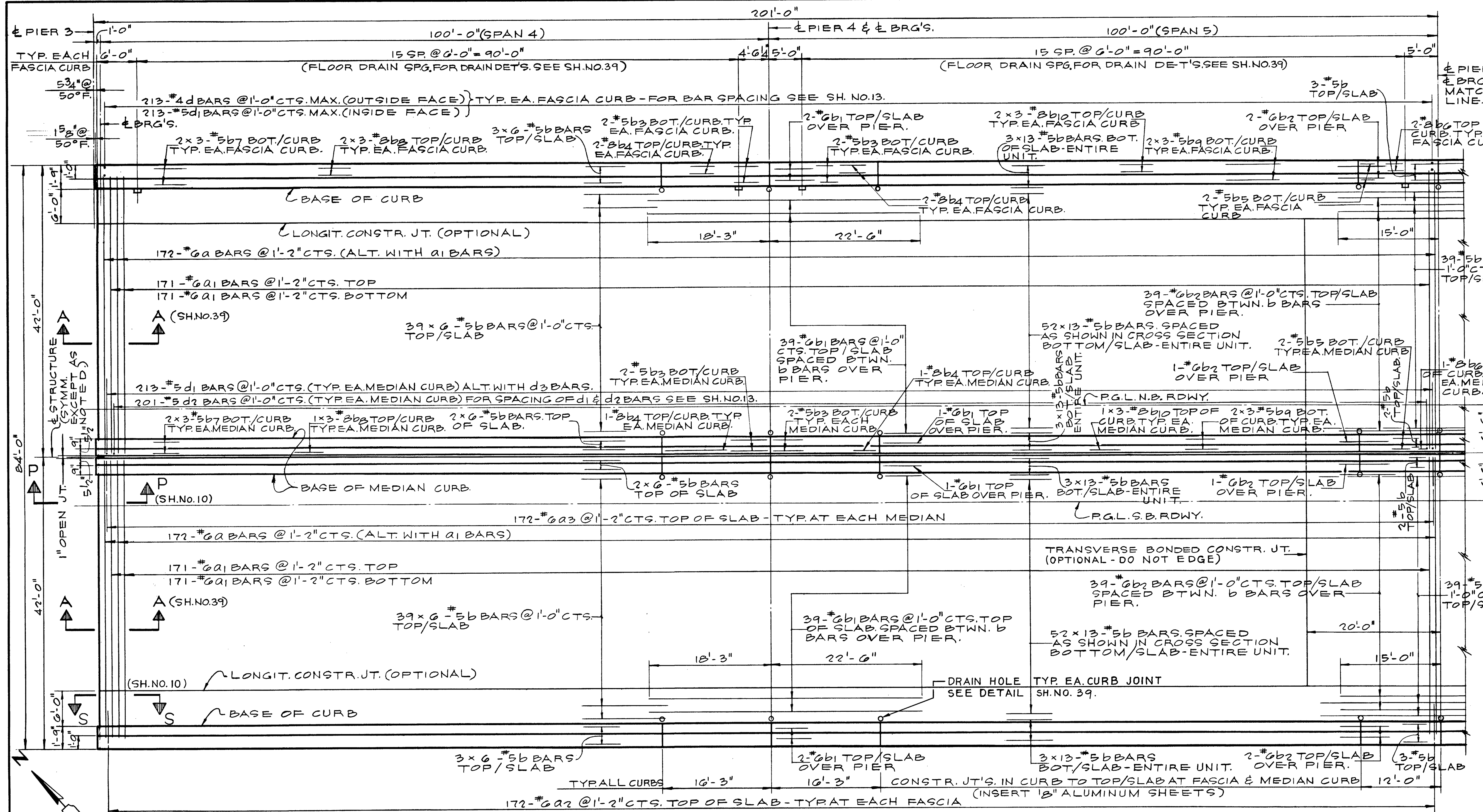
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPPEL  
DRAWN BY R.K. MILLER  
CHECKED A. MILLUNAS  
IN CHARGE W.J. ZAPPEL  
APPROVED W.G. HORN



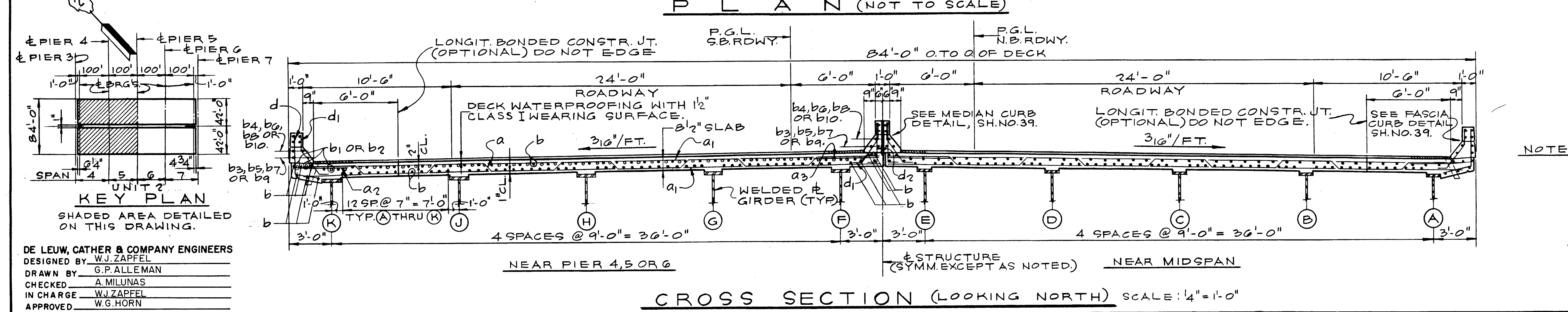
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	11
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		

BAR LIST							
BAR	QUANTITY	N. B.	S. B.	TOTAL	SIZE	LENGTH	SHAPE
a	343	343	686	6	42'-0"	W	
a1	684	684	1368	6	40'-6"	—	
a2	343	343	686	6	4'-0"	—	
a3	343	343	686	6	4'-3"	—	
b	1326	1326	2652	5	32'-0"	—	
b1	84	84	168	6	40'-9"	—	
b2	42	42	84	6	30'-0"	—	
b3	16	16	32	5	16'-0"	—	
b4	12	12	24	8	16'-0"	—	
b5	8	8	16	5	11'-9"	—	
b6	6	6	12	8	11'-9"	—	
b7	24	24	48	5	29'-0"	—	
b8	18	18	36	8	29'-6"	—	
b9	24	24	48	5	24'-8"	—	
b10	18	18	36	8	25'-2"	—	
d	426	426	852	4	4'-7"	—	
d1	852	852	1704	5	3'-7"	—	
d2	402	402	804	5	3'-4"	—	

NOTES:  
 BARS INDICATED THUS 52 X 13 #5 ETC. INDICATES 52 LINES OF BARS WITH 13 LENGTHS PER LINE.  
 MIN. BAR LAP = 24 DIA.  
 ALL BAR DIMENSIONS ARE OUT TO OUT.



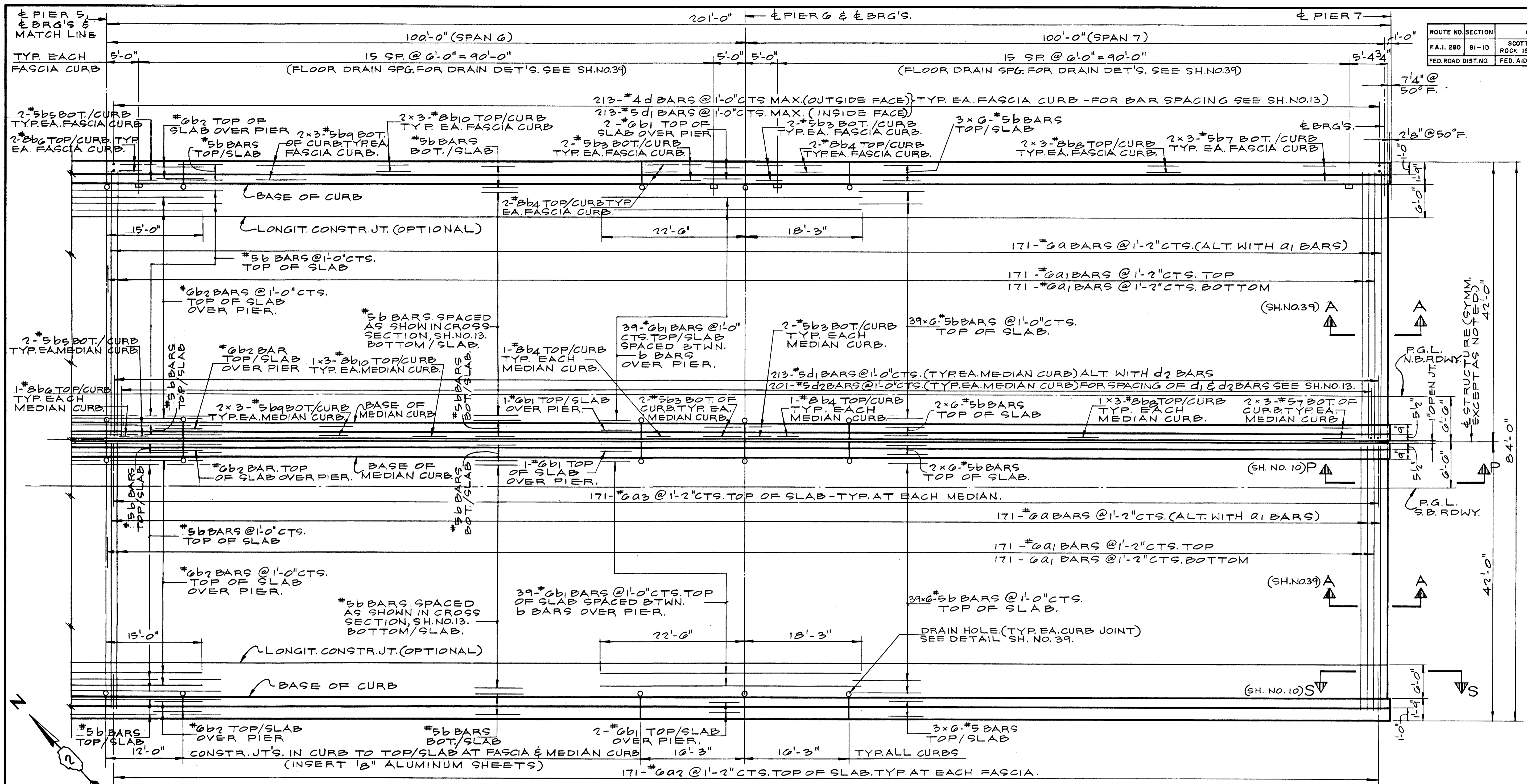
NOTE: WORK THIS SHEET WITH SH'S NO. 12 & 13. FOR SUGGESTED POURING SEQUENCE SEE SH. NO. 12.



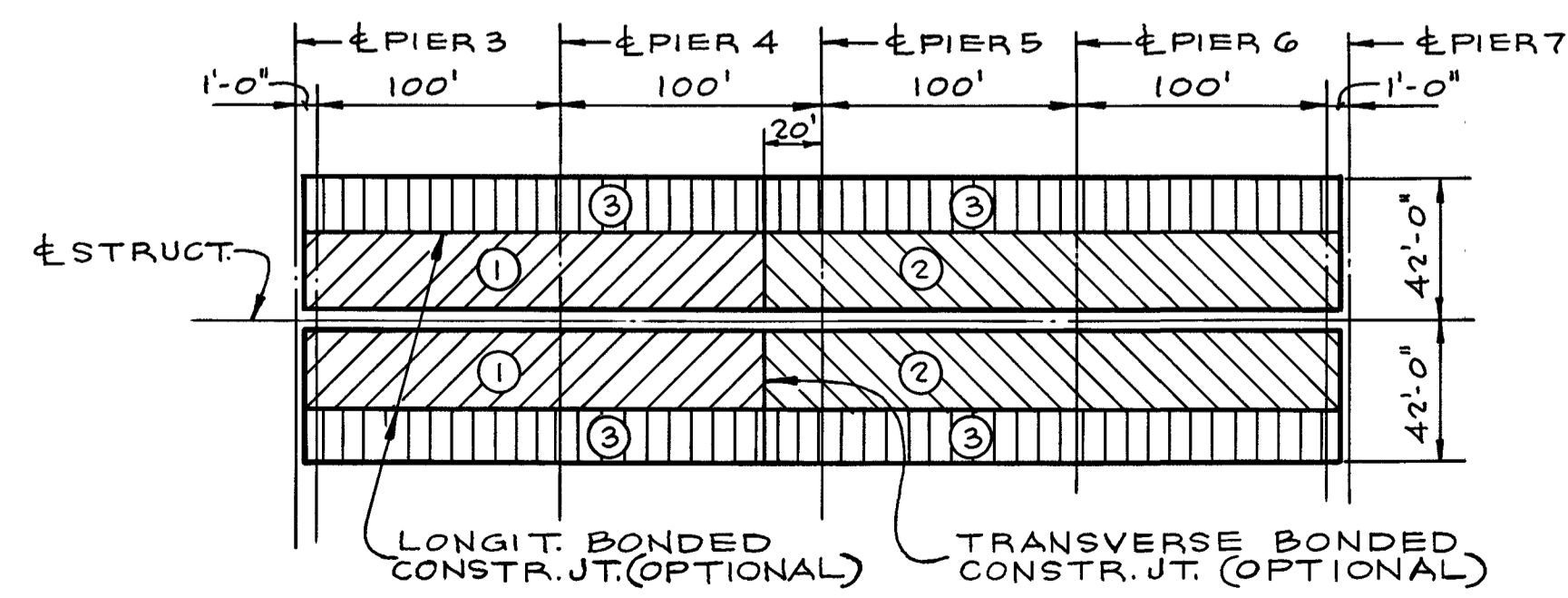
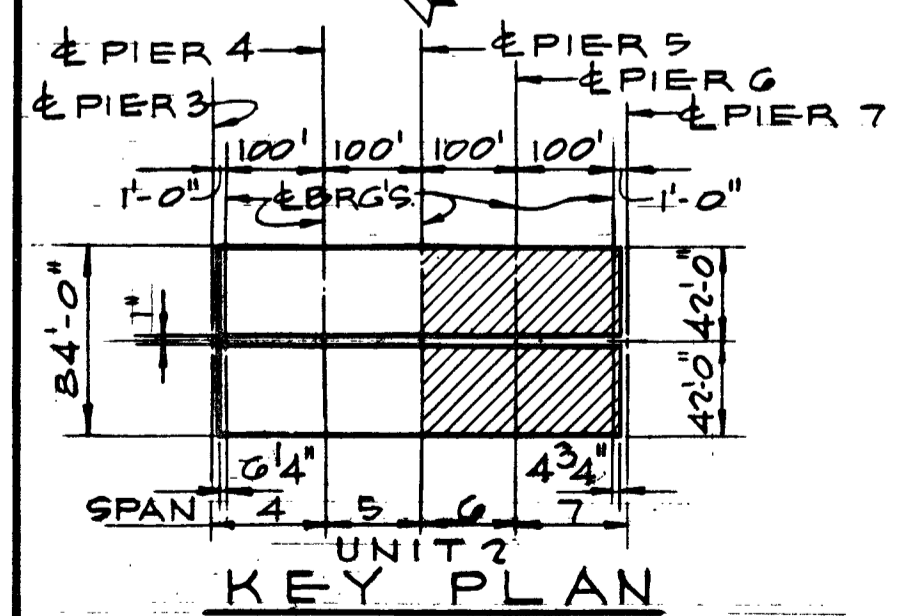
DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY G.P. ALLEMAN  
 CHECKED A. MILUNAS  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

**SUPERSTRUCTURE - UNIT 2 SPANS 4 & 5**  
 F.A.I. ROUTE 280 SECTION 81-1D  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11+11.38 TO STA. 53+04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	12
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		



PLAN (NOT TO SCALE)



SUGGESTED POURING SEQUENCE  
UNIT 2 SPANS 4 THRU 7

NOTE:  
FOR FASCIA AND MEDIAN CURB SECTIONS, FLOOR DRAINS, ALUMINUM SHEETS, DECK WATERPROOFING DETAILS AND METHOD OF DETERMINING FILLET HEIGHT "t", SEE SH. NO. 39.  
WORK THIS SHEET WITH SH'S. NO. 11 & 13.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE *	CU. YD.	904.0
REINFORCEMENT BARS *	POUND	259,413
PROTECTIVE COAT	SQ. YD.	555.2
BITUMINOUS CONCRETE SURFACE COURSE CLASS I (1 1/2" THICK)	TON	293.2
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	3,475

\* - THE PARAPET CONCRETE & REINF. QUANTITIES ARE NOT INCLUDED, SEE SH. NO. 11.

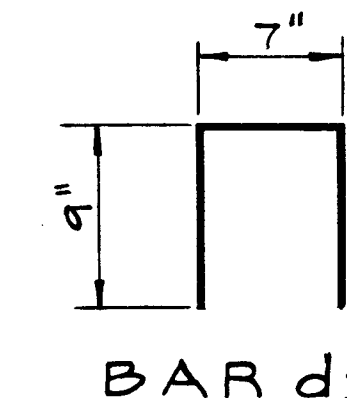
**SUPERSTRUCTURE - UNIT 2  
SPANS 6 & 7**  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPPEL  
DRAWN BY G.P. ALLEMAN  
CHECKED BY A. MILUNAS  
IN CHARGE W.J. ZAPPEL  
APPROVED W.G. HORN

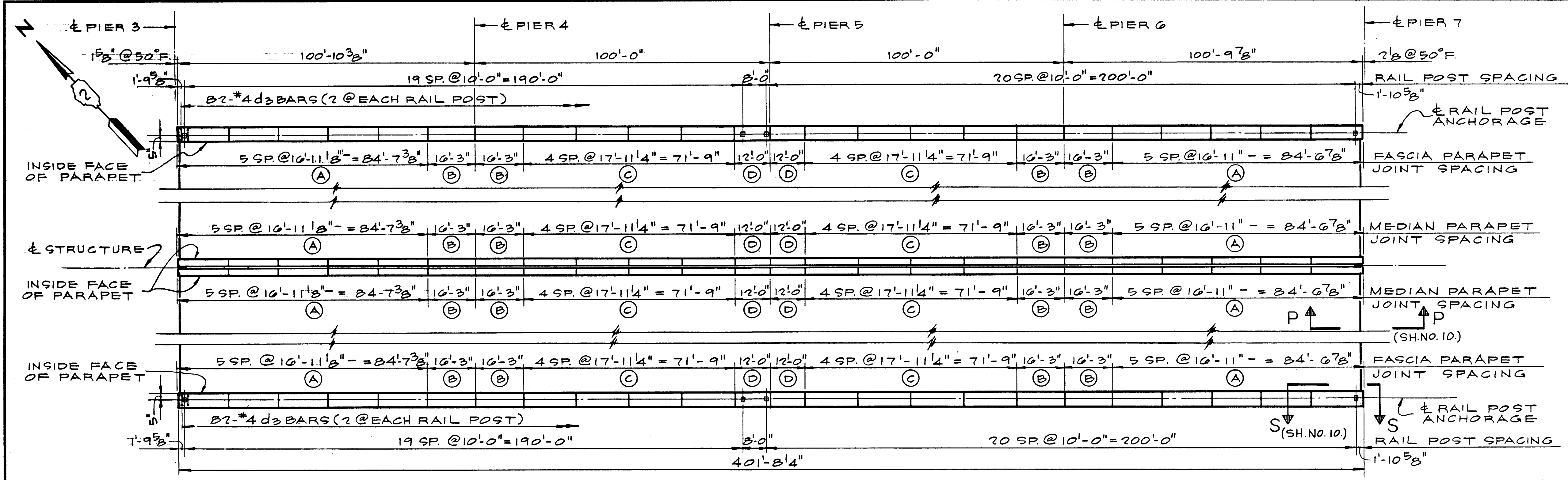


ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-10	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	13
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	

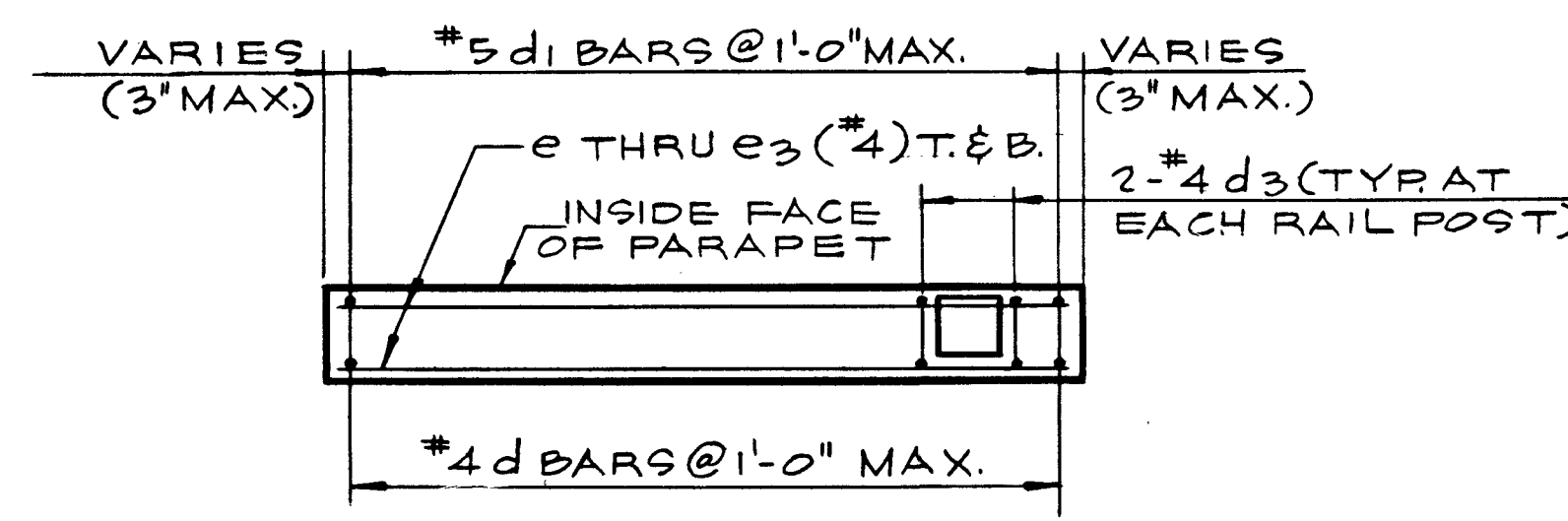
BAR LIST					
BAR	QUANTITY	TOTAL	SIZE	LENGTH	SHAPE
	N.B.	S.B.			
e	60	60	120	4	10'-7"
e1	24	24	48	4	10'-0"
e2	48	48	96	4	17'-7"
e3	12	12	24	4	11'-8"
d3	82	82	164	4	2'-1"



**NOTE:**  
 FOR RAILING AND PARAPET JOINT DETAILS SEE SH. NO. 40.  
 WORK THIS SHEET WITH SH'S. NO. 11 & 12.  
 FOR EXPANSION GUARD IN PARAPET DETAILS AND ADJUSTMENT SCHEDULE SEE SH. NO. 10.

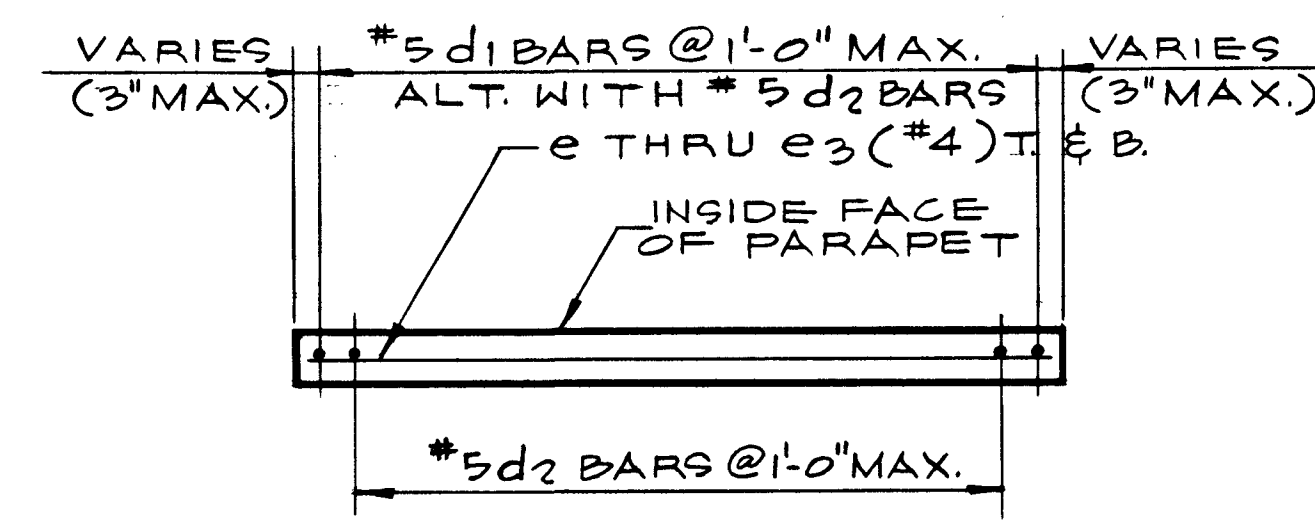


**PLAN**  
(NOT TO SCALE)



**PLAN-TYPICAL FASCIA PARAPET PANEL REINFORCEMENT**  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL	
			VERTICAL *	HORIZONTAL
N. BOUND	(A)	10	18 #4 d	18 #5 d1
	(B)	4	17 #4 d	17 #5 d1
	(C)	8	19 #4 d	19 #5 d1
	(D)	2	13 #4 d	13 #5 d1
S. BOUND	(A)	10	18 #4 d	18 #5 d1
	(B)	4	17 #4 d	17 #5 d1
	(C)	8	19 #4 d	19 #5 d1
	(D)	2	13 #4 d	13 #5 d1



**PLAN-TYPICAL MEDIAN PARAPET PANEL REINFORCEMENT**  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL	
			VERTICAL *	HORIZONTAL
N. BOUND	(A)	10	18 #5 d1	17 #5 d2
	(B)	4	17 #5 d1	16 #5 d2
	(C)	8	19 #5 d1	18 #5 d2
	(D)	2	13 #5 d1	12 #5 d2
S. BOUND	(A)	10	18 #5 d1	17 #5 d2
	(B)	4	17 #5 d1	16 #5 d2
	(C)	8	19 #5 d1	18 #5 d2
	(D)	2	13 #5 d1	12 #5 d2

\* - BARS d, d1 & d2 ARE DETAILED AND BILLED ON SH. NO. 11.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	135.3
REINFORCEMENT BARS	POUND	3,385
ALUMINUM RAILING	LIN. FT.	804

**SUPERSTRUCTURE - UNIT 2**  
**PARAPET & RAILING DETAILS**  
 F.A.I. ROUTE 280 SECTION 81-10  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970

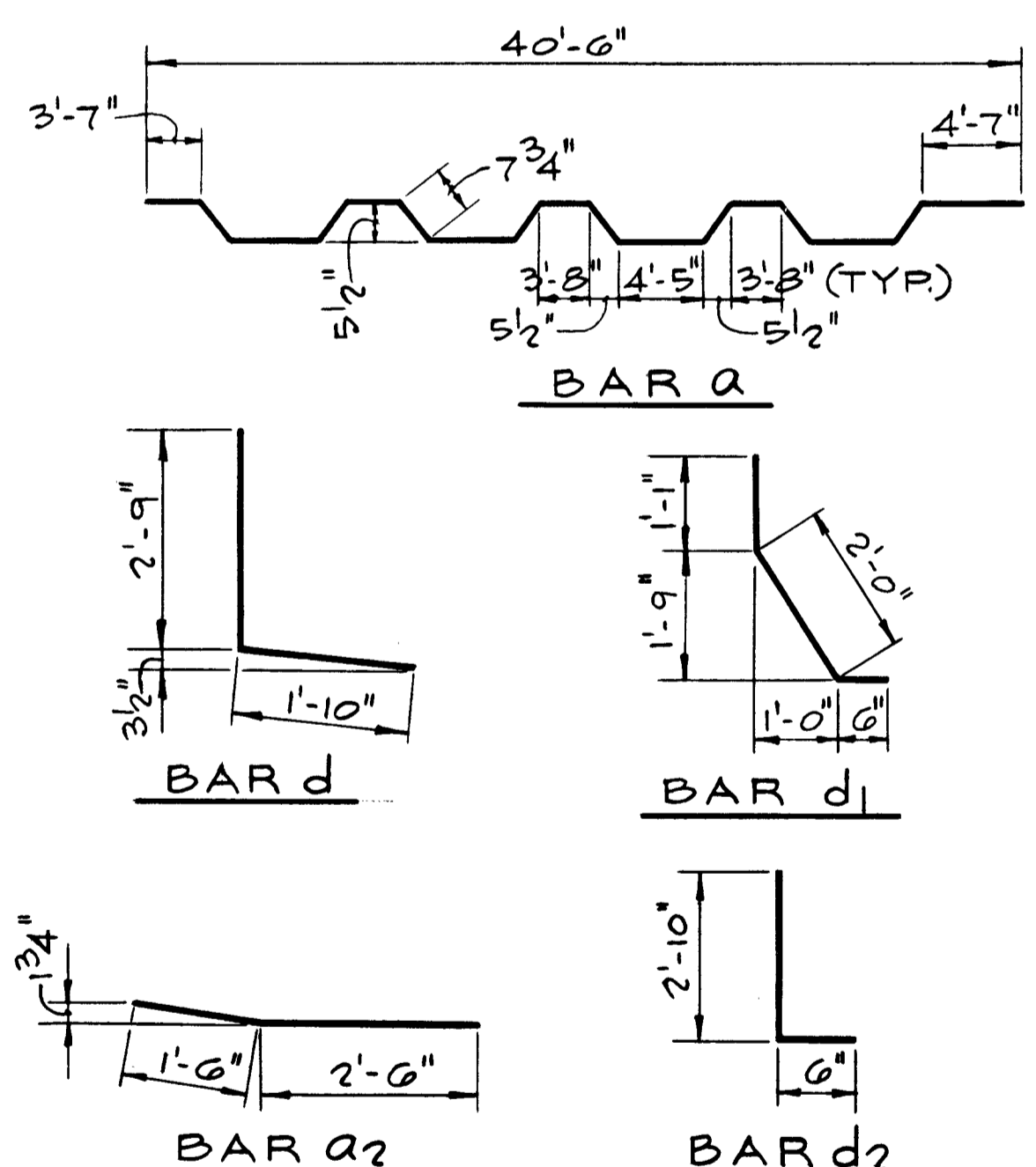
DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY G.P. ALLEMAN  
 CHECKED BY A. MILUNAS  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-10	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	14
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	

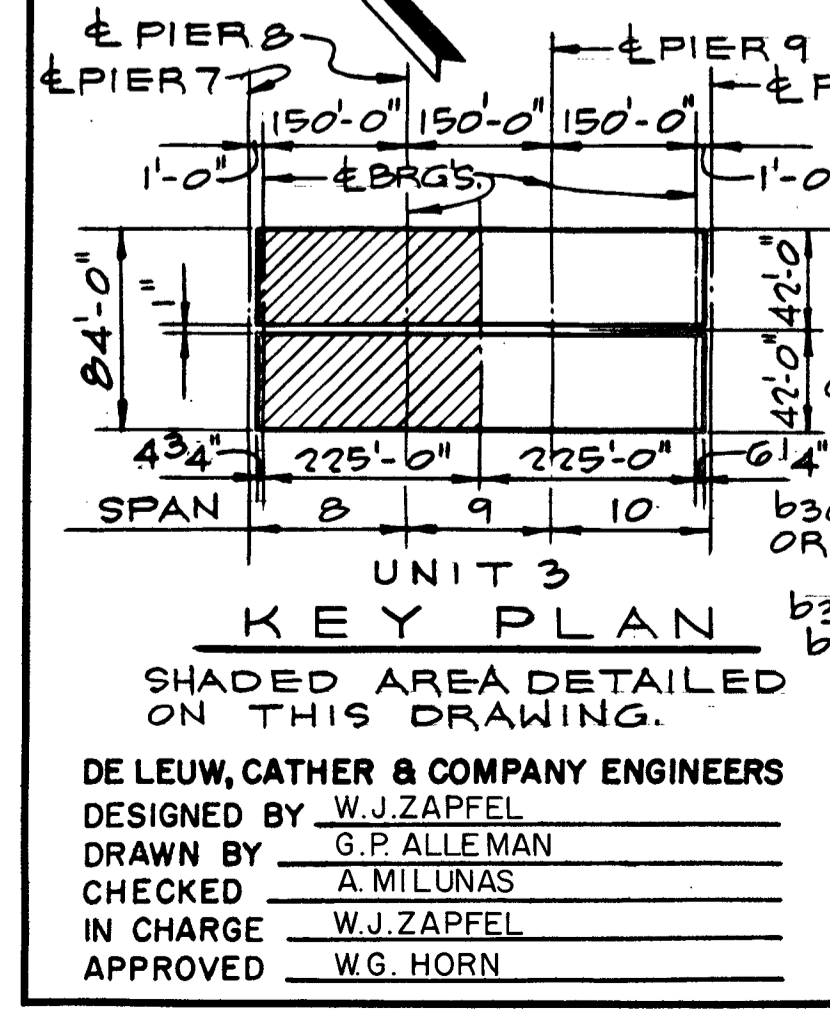
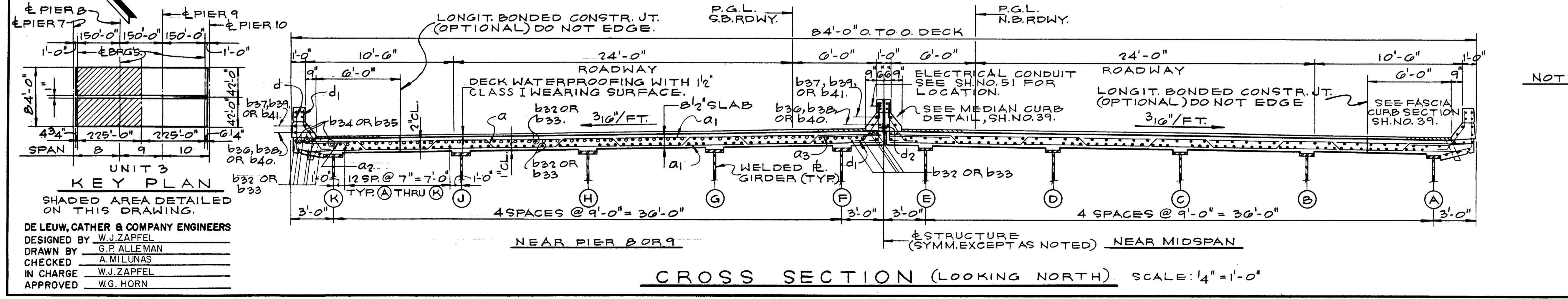
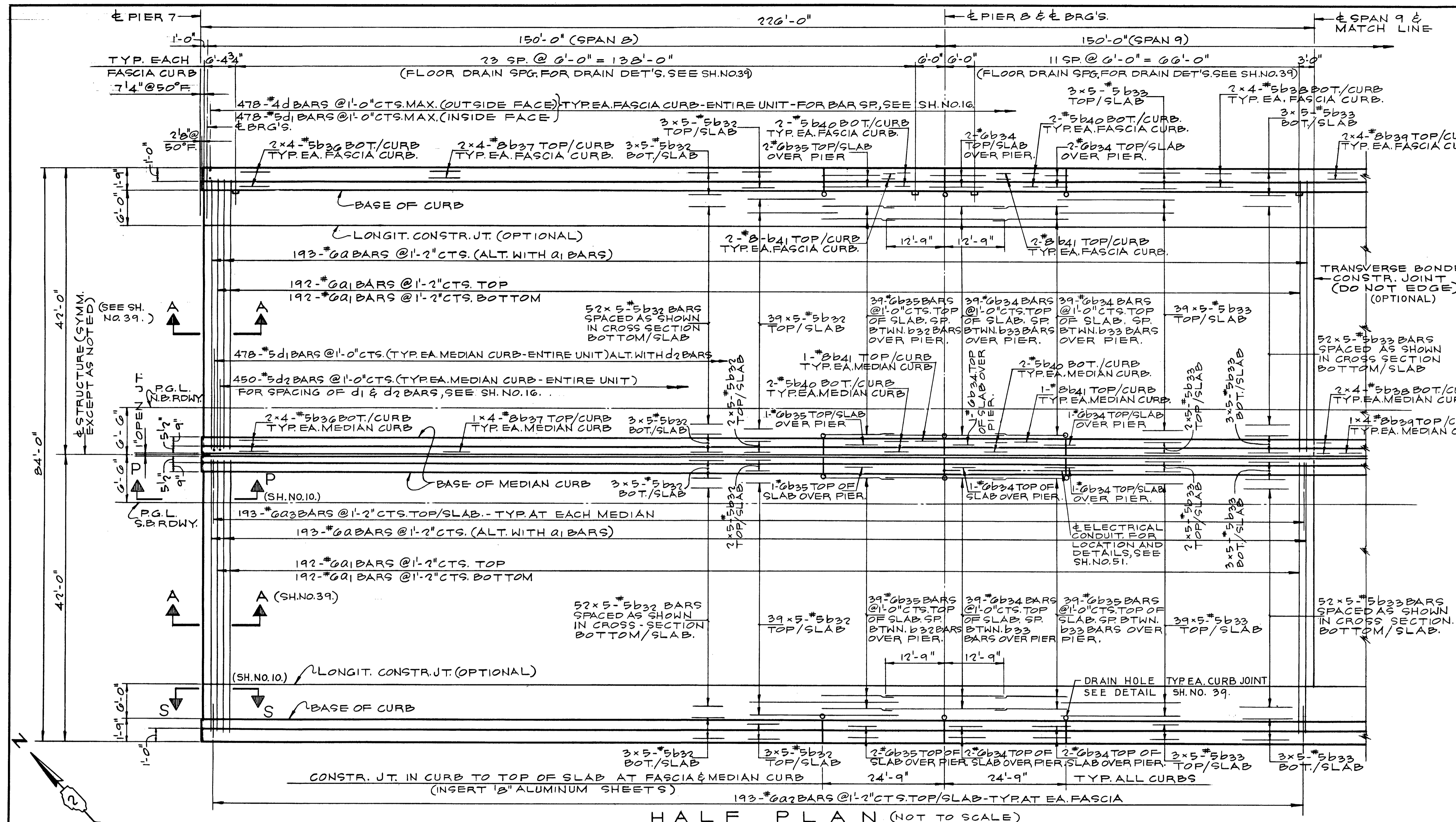
**BAR LIST**

BAR	QUANTITY	SIZE	LENGTH	SHAPE	
a	380	380	772	0	42'-0"
a1	384	384	768	0	40'-0"
a2	380	380	772	0	4'-0"
a3	380	380	772	0	4'-3"
b32	1020	1020	2040	5	29'-3"
b33	510	510	1020	5	25'-5"
b34	168	168	336	0	25'-0"
b35	84	84	168	0	14'-3"
b36	32	32	64	5	32'-4"
b37	24	24	48	5	32'-10"
b38	10	10	20	5	26'-0"
b39	12	12	24	5	26'-7"
b40	10	10	20	5	24'-0"
b41	12	12	24	5	24'-6"
d	478	478	956	4	4'-7"
d1	956	956	1912	5	3'-7"
d2	450	450	900	5	3'-4"

**NOTES:**  
 BARS INDICATED THUS 52 x 5 -#5 ETC. INDICATES 52 LINES OF BARS WITH 5 LENGTHS PER LINE.  
 MIN. BAR LAP = 24 DIA.  
 ALL BAR DIMENSIONS ARE OUT TO OUT.



**NOTE:** WORK THIS SHEET WITH SH'S. NO. 15 & 16. FOR ELECTRICAL CONDUIT DETAILS FOR NAVIGATION LIGHTING, SEE SH. NO. 51. FOR SUGGESTED POURING SEQUENCE SEE SHEET NO. 15.

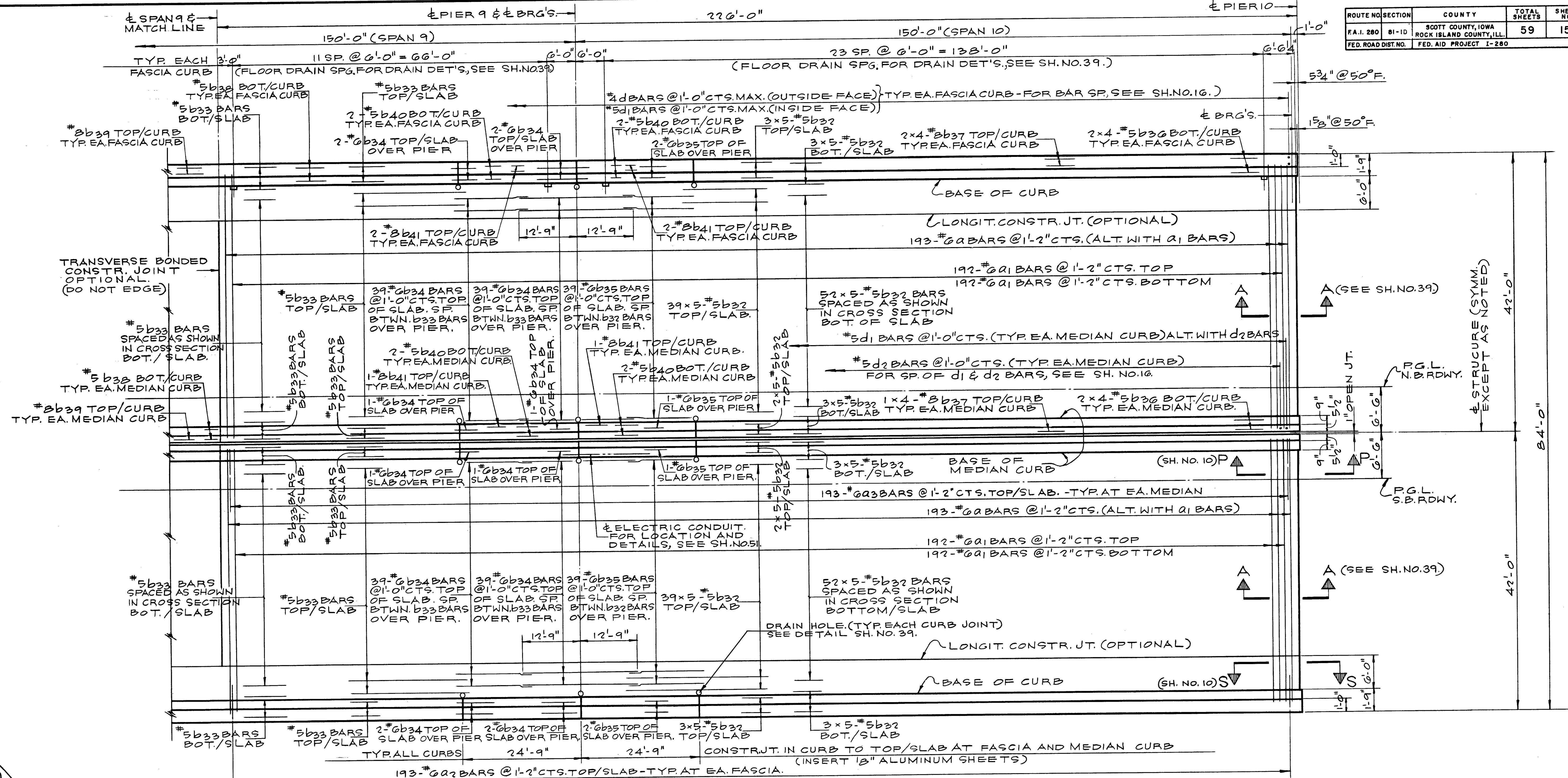


**DE LEUW, CATHAR & COMPANY ENGINEERS**  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY G.P. ALLEMAN  
 CHECKED A. MILUNAS  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

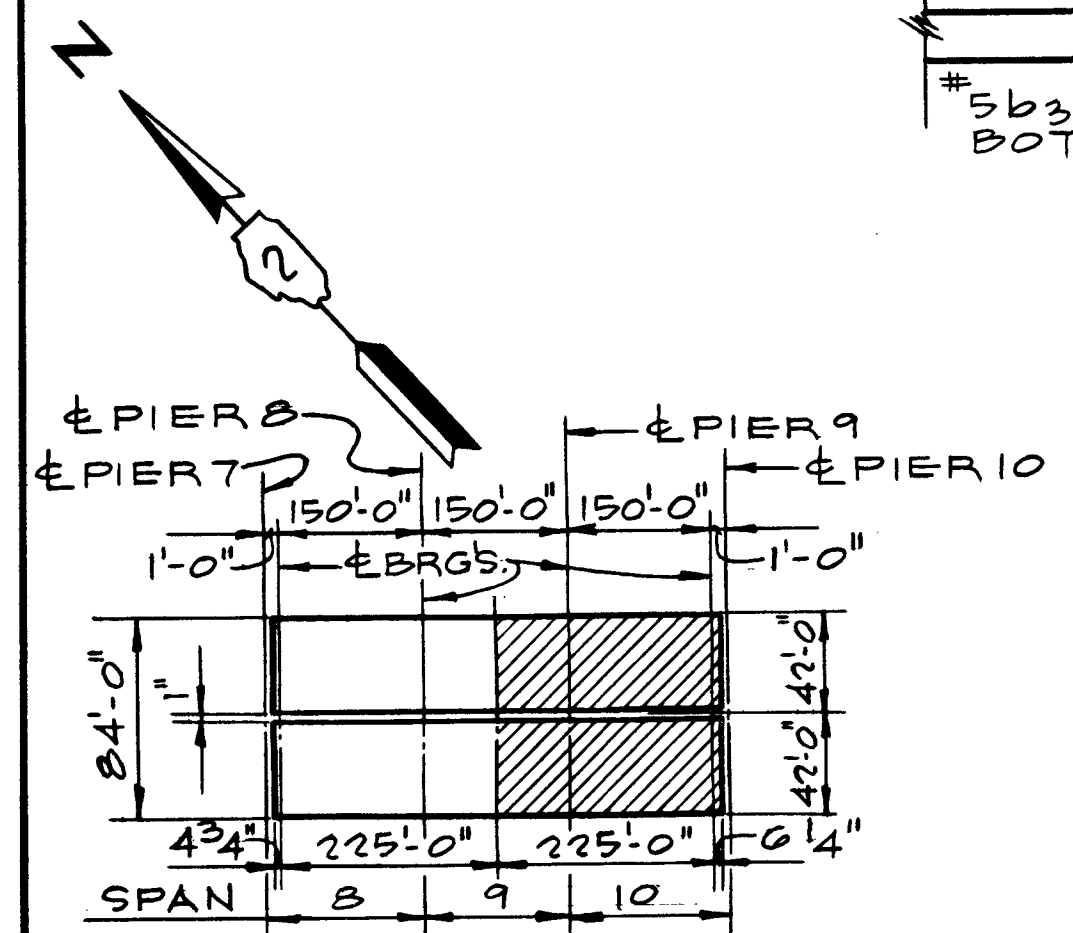
**SUPERSTRUCTURE - UNIT 3**  
**SPANS 8 & 9**  
 F.A.I. ROUTE 280 SECTION 81-10  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970



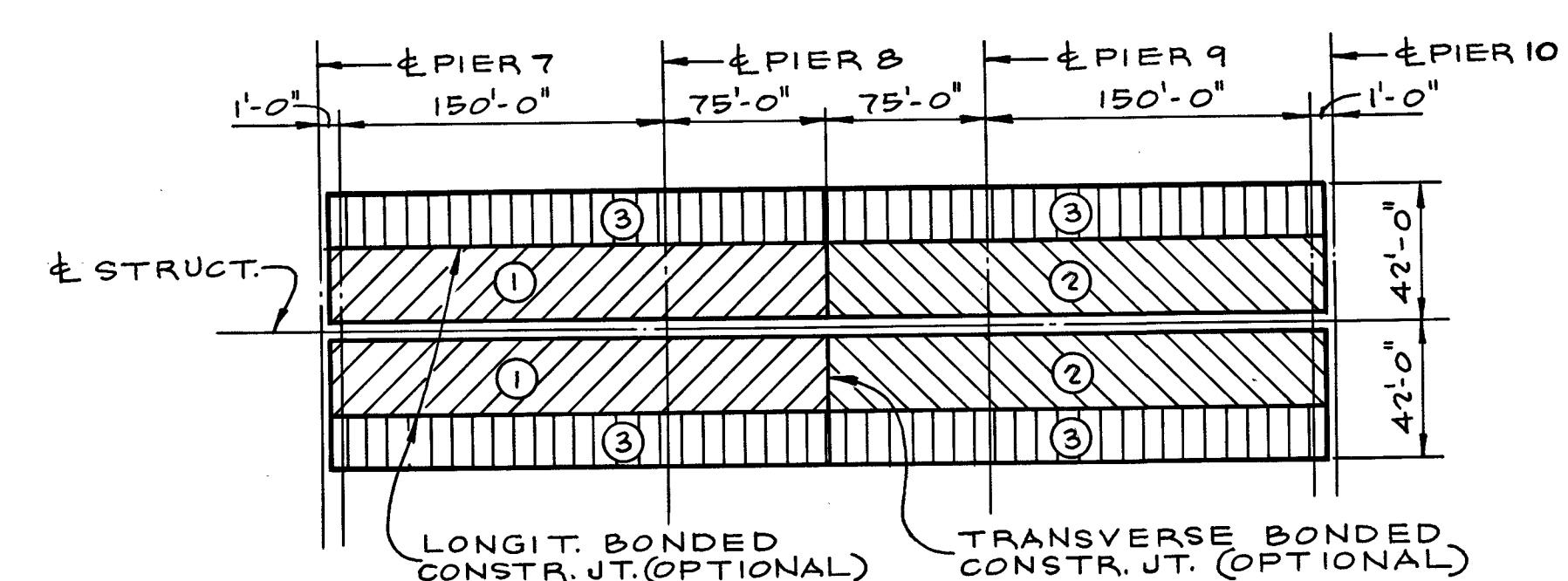
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-10	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	15
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



**HALF PLAN**  
(NOT TO SCALE)



**UNIT 3 KEY PLAN**  
SHADED AREA DETAILED ON THIS DRAWING



**SUGGESTED POURING SEQUENCE**  
UNIT 3 SPANS 8 THRU 10

**NOTE:**  
FOR FASCIA AND MEDIAN CURB SECTIONS, FLOOR DRAINS, ALUMINUM SHEETS, DECK WATERPROOFING DETAILS AND METHOD OF DETERMINING FILLET HEIGHT "b", SEE SH. NO. 39.  
WORK THIS SHEET WITH SH'S NO. 14 & 16.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE *	CU. YD.	1025.5
REINFORCEMENT BARS *	POUND	245,886
PROTECTIVE COAT	SQ. YD.	625.3
BITUMINOUS CONCRETE SURFACE COURSE CLASS I (1 1/2" THICK)	TON	329.7
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	3908

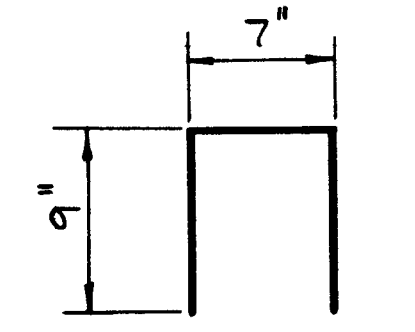
\* - THE PARAPET CONCRETE & REINF. QUANTITIES ARE NOT INCLUDED, SEE SH. NO. 14.

**SUPERSTRUCTURE - UNIT 3**  
**SPANS 9 & 10**  
F.A.I. ROUTE 280 SECTION 81-10  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

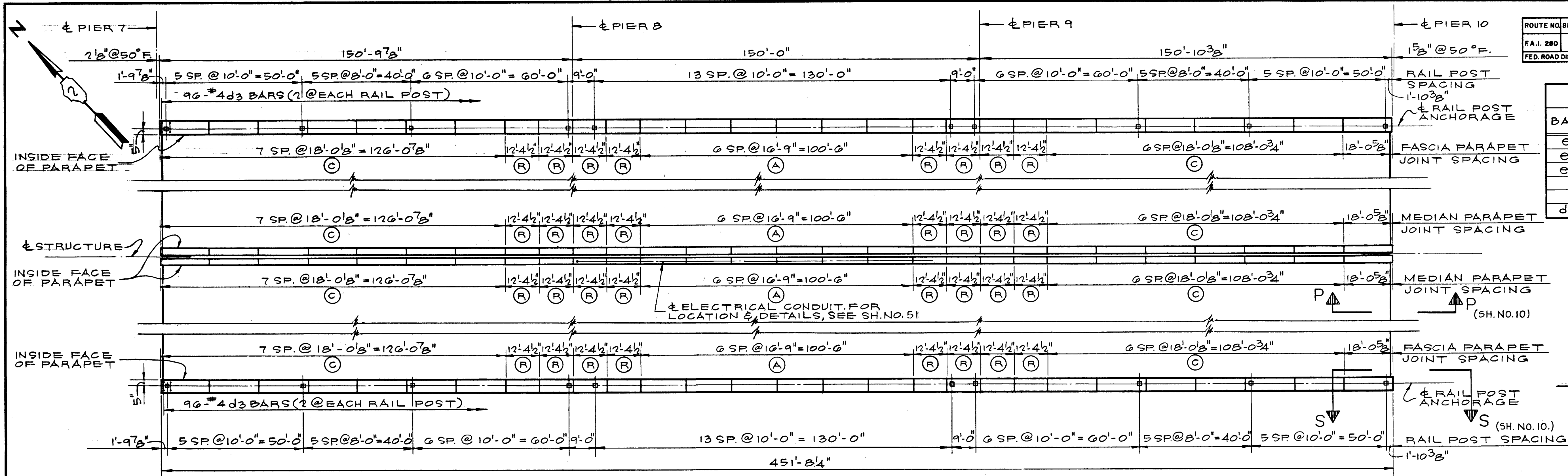
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY G.P. ALLEMAN  
CHECKED A. MILUNAS  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	16
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		

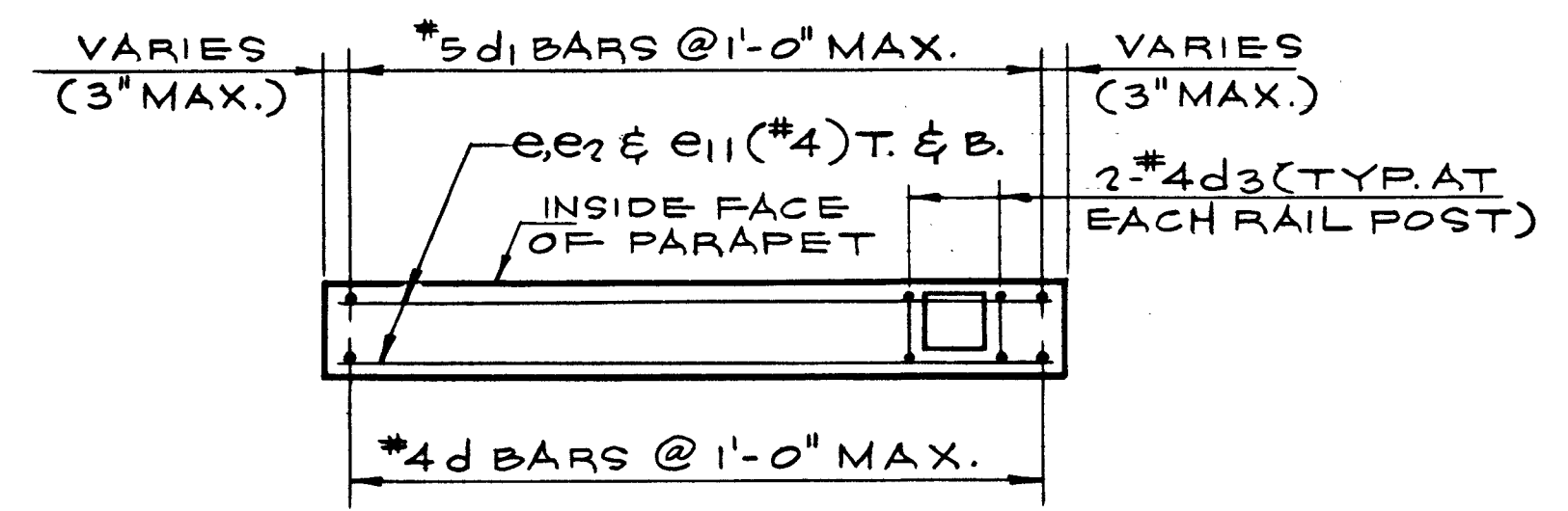
BAR LIST					
BAR	QUANTITY N.B.	S.B.	TOTAL	SIZE	LENGTH SHAPE
e	36	36	72	4	16'-7" —
e2	84	84	168	4	17'-7" —
e11	48	48	96	4	12'-0" —
d3	96	96	192	4	2'-1" □



NOTE: FOR RAILING AND PARAPET JOINT DETAILS SEE SH. NO. 40.

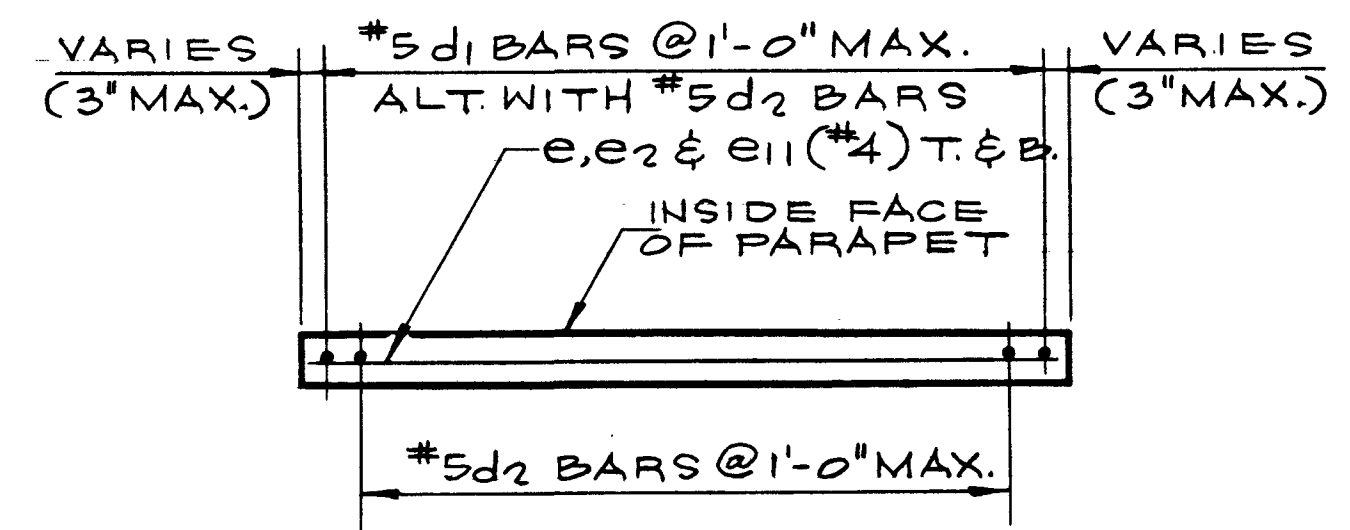


PLAN  
(NOT TO SCALE)



PLAN-TYPICAL FASCIA PARAPET  
PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL	
			VERTICAL *	HORIZONTAL
N. BOUND	(A)	6	18-#4d	4-#4e
	(C)	14	19-#4d	4-#4e2
	(R)	8	13-#4d	4-#4e11
S. BOUND	(A)	6	18-#4d	4-#4e
	(C)	14	19-#4d	4-#4e2
	(R)	8	13-#4d	4-#4e11



PLAN-TYPICAL MEDIAN PARAPET  
PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL	
			VERTICAL *	HORIZONTAL
N. BOUND	(A)	6	18-#5d1	2-#4e
	(C)	14	19-#5d1	2-#4e2
	(R)	8	13-#5d1	2-#4e11
S. BOUND	(A)	6	18-#5d1	2-#4e
	(C)	14	19-#5d1	2-#4e2
	(R)	8	13-#5d1	2-#4e11

\*-BARS d, d1 & d2 ARE DETAILED AND BILLED ON SH. NO. 14.

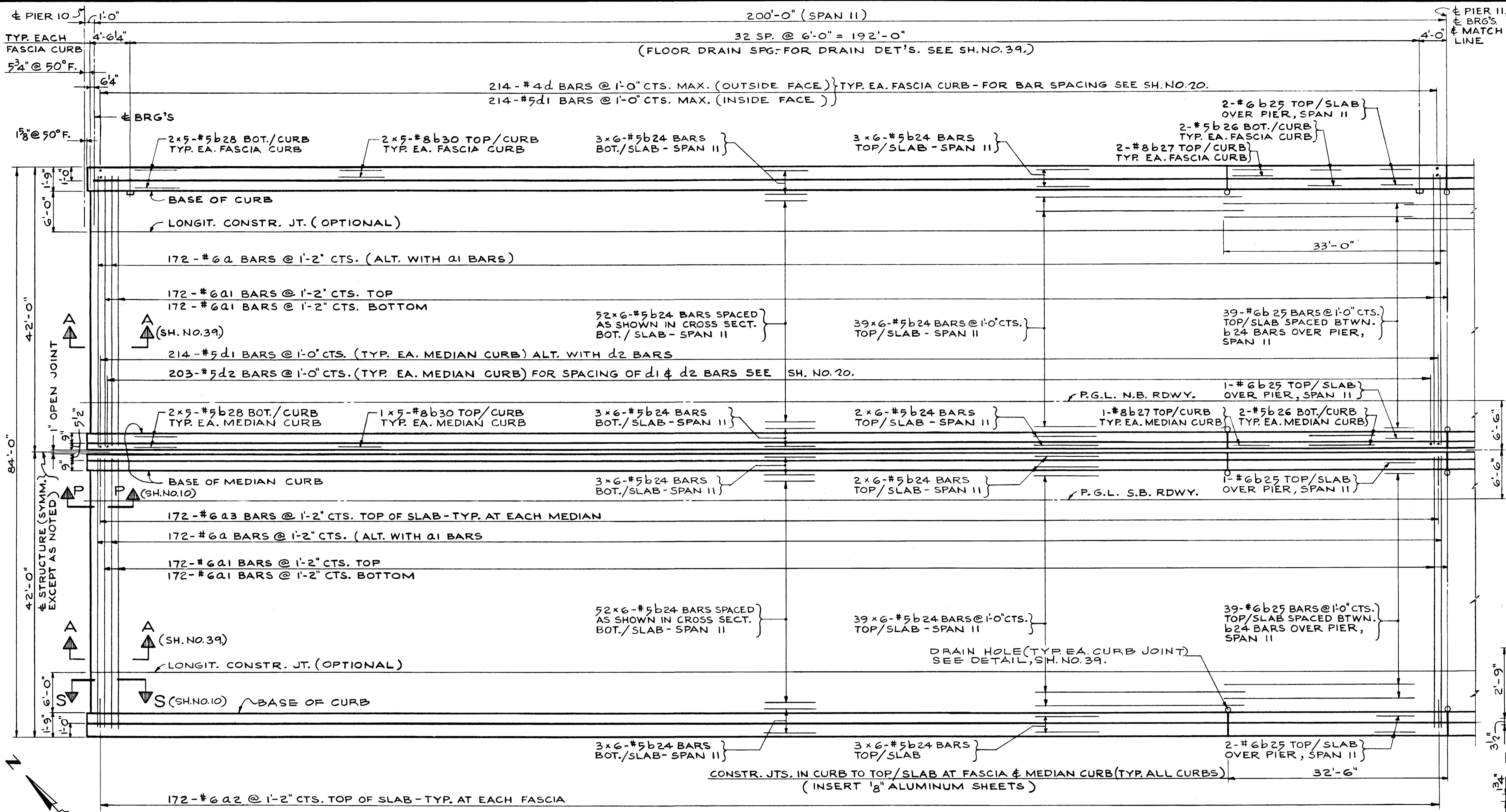
NOTE: WORK THIS SHEET WITH SH'S. NO. 14 & 15. FOR EXPANSION GUARD IN PARAPET DETAILS AND ADJUSTMENT SCHEDULE SEE SH. NO. 10.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	152.2
REINFORCEMENT BARS	POUND	3808
ALUMINUM RAILING	LIN. FT.	904

DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY G.P. ALLEMAN  
CHECKED A. MILUNAS  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

SUPERSTRUCTURE - UNIT 3  
PARAPET & RAILING DETAILS  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

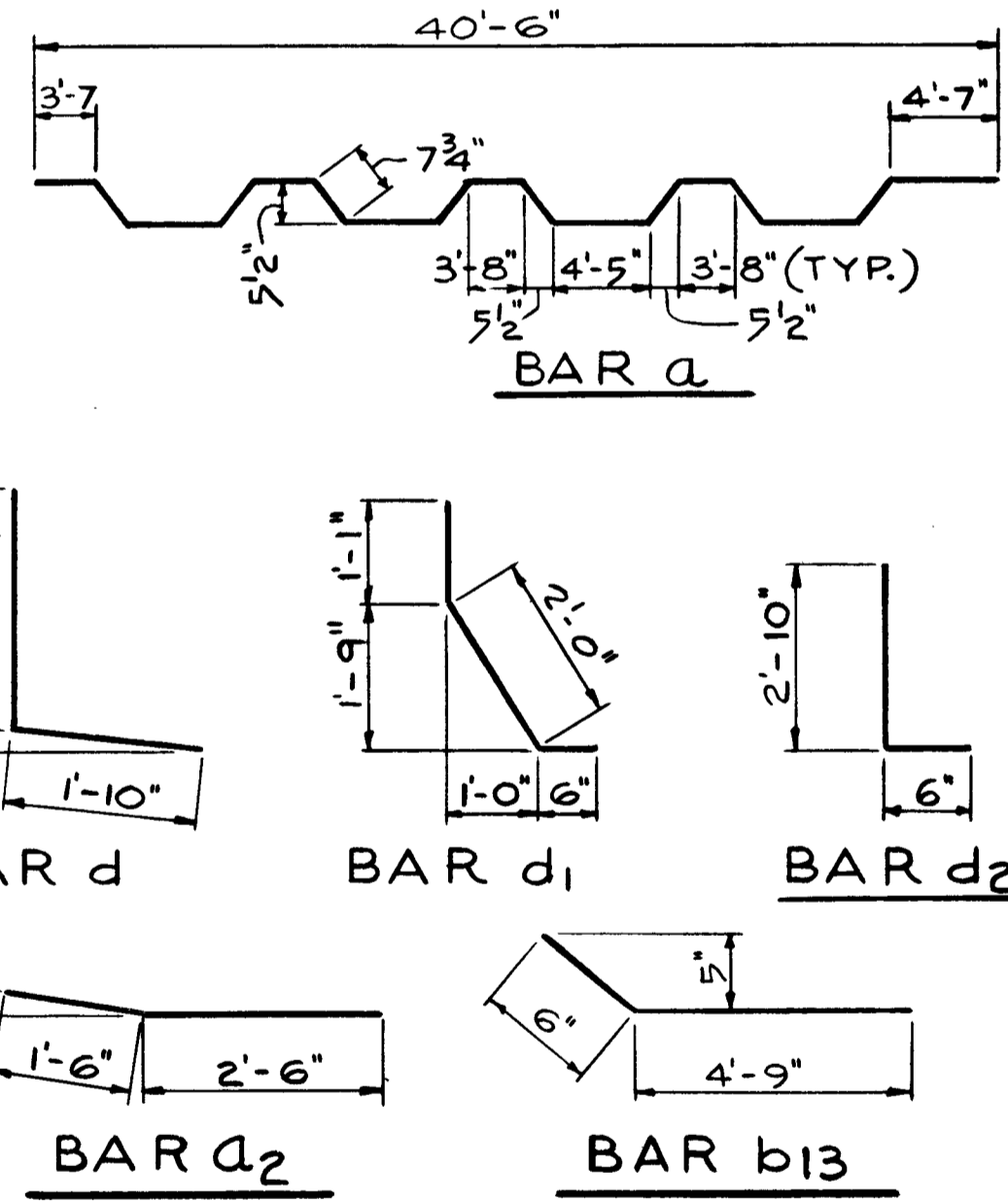




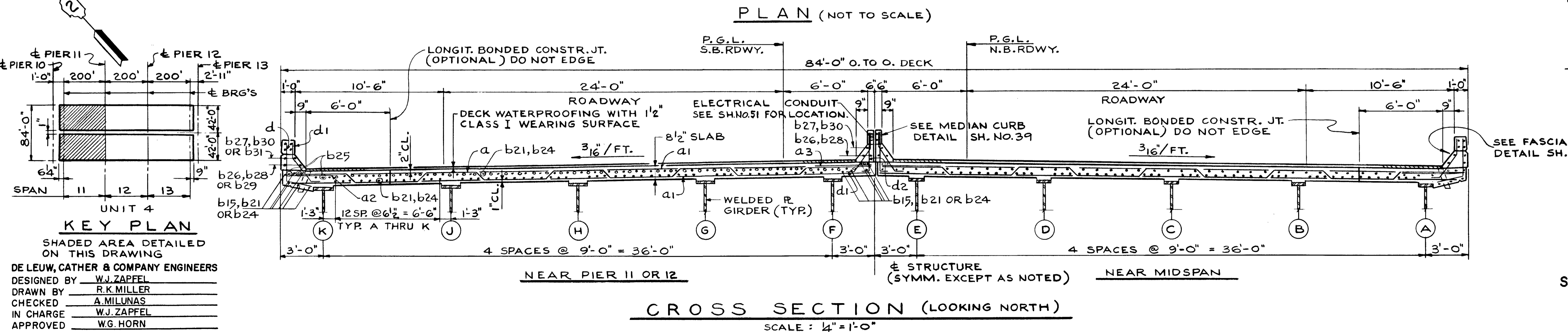
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA.I. 280	81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	17
FED. ROAD DIST. NO.		FED. AID PROJECT	I-280	

BAR	QUANTITY		TOTAL	SIZE	LENGTH	SHAPE
	N.B.	S.B.				
a	517	517	1034	6	42'-0"	W
a1	1032	1032	2064	6	40'-6"	
a2	517	517	1034	6	4'-0"	
a3	517	517	1034	6	4'-3"	
a6	12	12	24	6	8'-6"	
b13	52	52	104	5	5'-3"	
b15	66	66	132	5	32'-0"	
b21	714	714	1428	5	34'-6"	
b24	1158	1158	2316	5	31'-11"	
b25	252	252	504	6	28'-2"	
b26	16	16	32	5	32'-3"	
b27	12	12	24	8	32'-3"	
b28	20	20	40	5	34'-7"	
b29	28	28	56	5	34'-8"	
b30	15	15	30	8	35'-2"	
b31	27	27	54	8	35'-3"	
d	635	635	1270	4	4'-7"	L
d1	1270	1270	2540	5	3'-7"	L
d2	605	605	1210	5	3'-4"	L

NOTES:  
 BARS INDICATED THUS 39 x 6-#5 ETC. INDICATES 39 LINES OF BARS WITH 6 LENGTHS PER LINE.  
 MIN. BAR LAP = 24 DIA.  
 ALL BAR DIMENSIONS ARE OUT TO OUT.



NOTE:  
 WORK THIS SHEET WITH SH'S NO. 18, 19 & 20.  
 FOR ELECTRICAL CONDUIT DETAILS FOR NAVIGATION LIGHTING SEE SH. NO. 51  
 FOR SUGGESTED POURING SEQUENCE, SEE SH. NO. 18.  
 SEE FASCIA CURB DETAIL SH. NO. 39.

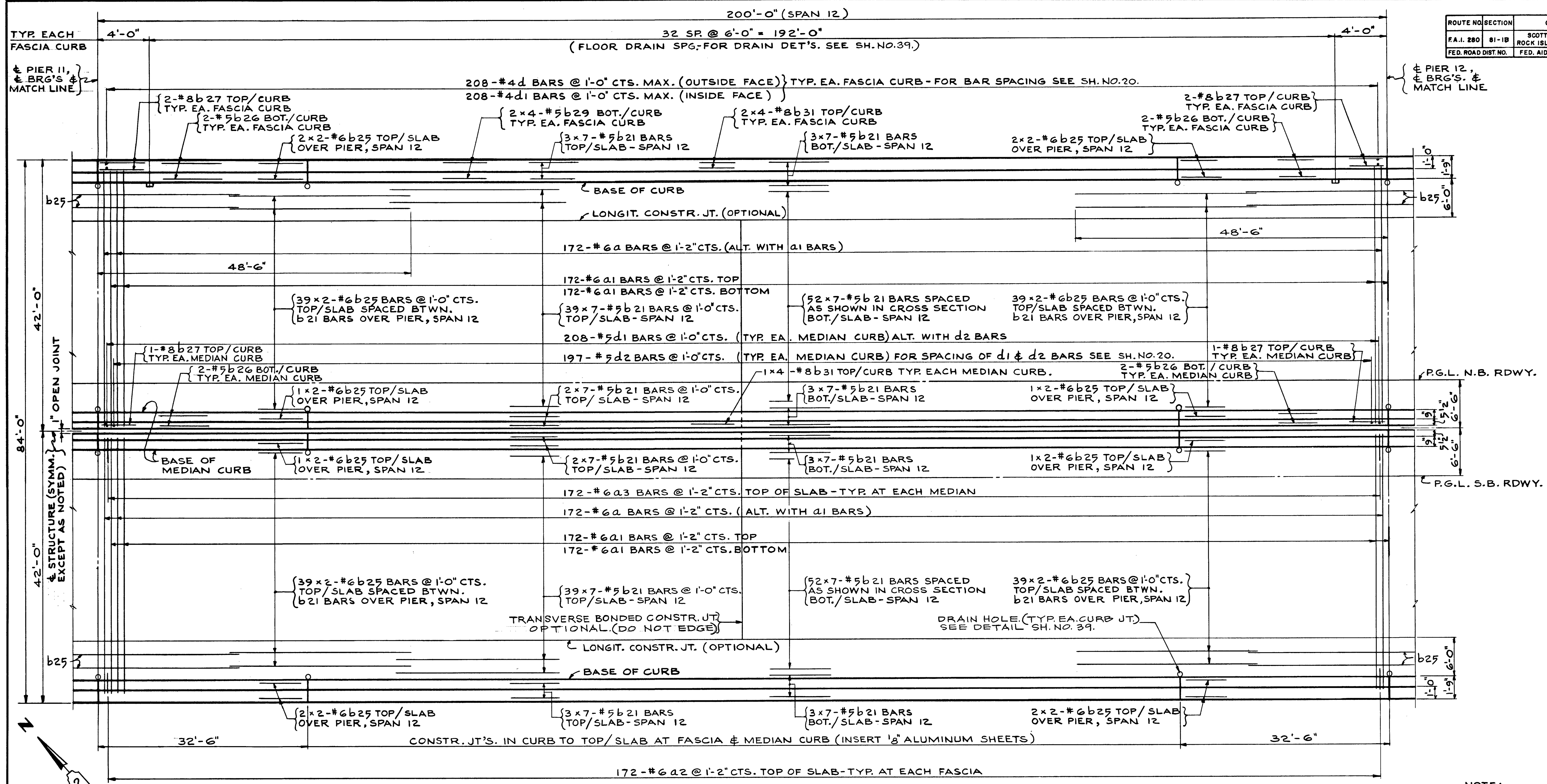


KEY PLAN  
 SHADED AREA DETAILED ON THIS DRAWING

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY R.K. MILLER  
 CHECKED A. MILUNAS  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

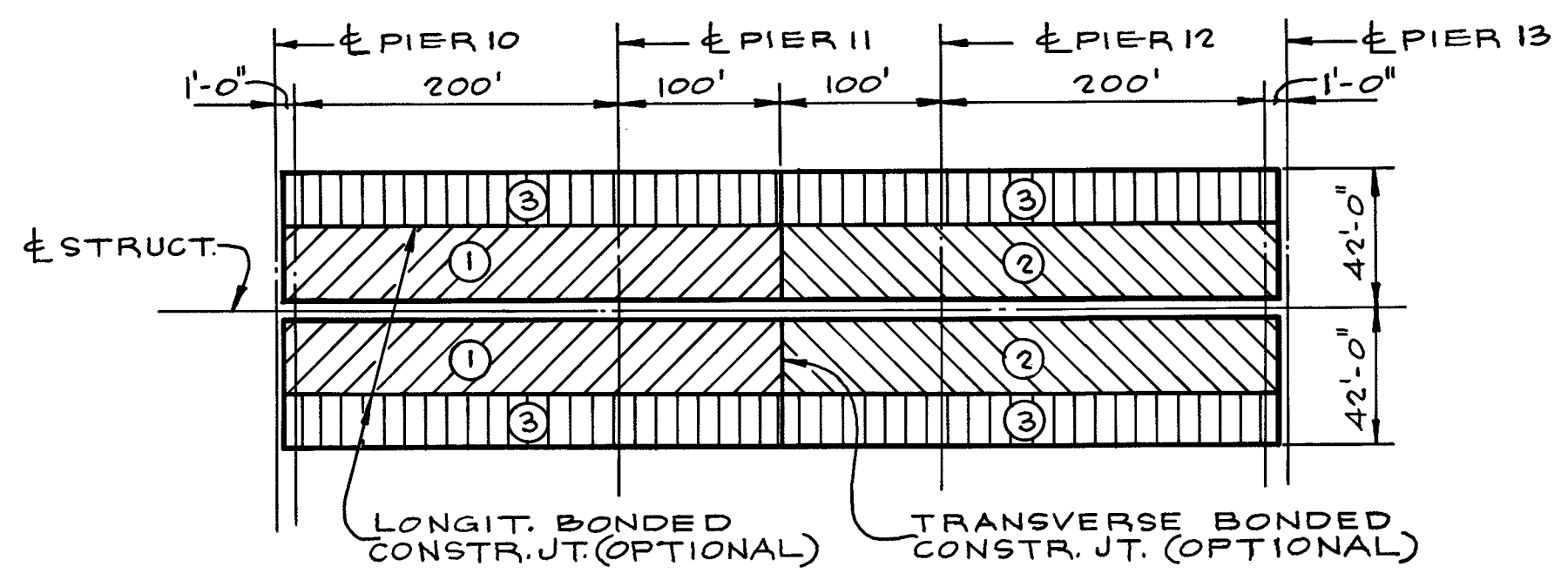
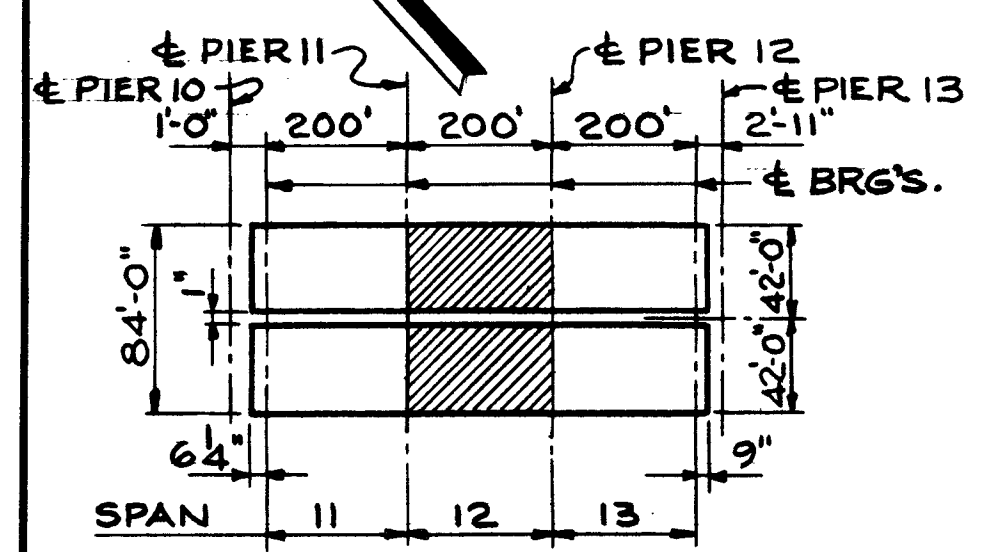
SUPERSTRUCTURE - UNIT 4  
 SPAN II  
 F.A.I. ROUTE 280 SECTION 81-ID  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	18
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		



NOTE:  
WORK THIS SHEET WITH SH'S. NO. 17, 19 & 20.

PLAN (NOT TO SCALE)



SUGGESTED POURING SEQUENCE  
UNIT 4 SPANS 11 THRU 13

UNIT 4  
KEY PLAN  
SHADED AREA DETAILED  
ON THIS DRAWING

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY R.K. MILLER  
CHECKED BY A. MILUNAS  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

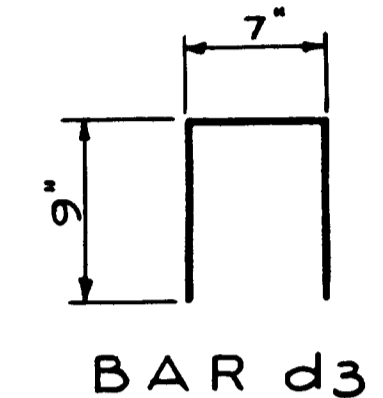
SUPERSTRUCTURE - UNIT 4  
SPAN 12  
F.A.I. ROUTE 280 SECTION 81-1B  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970



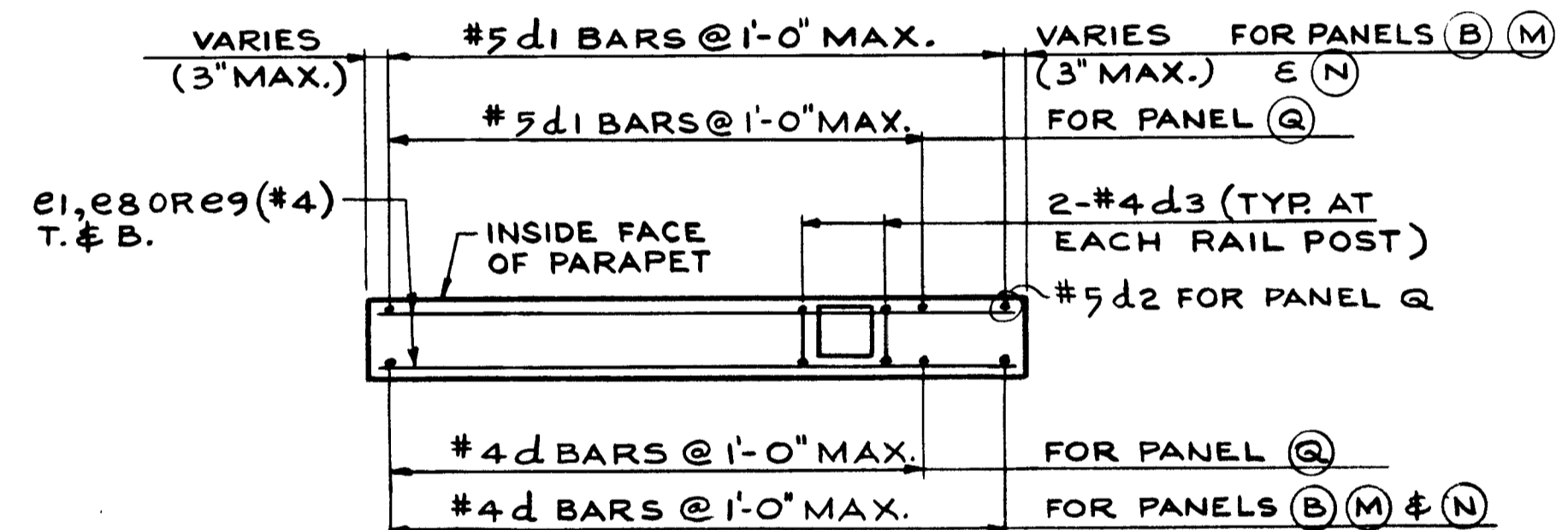
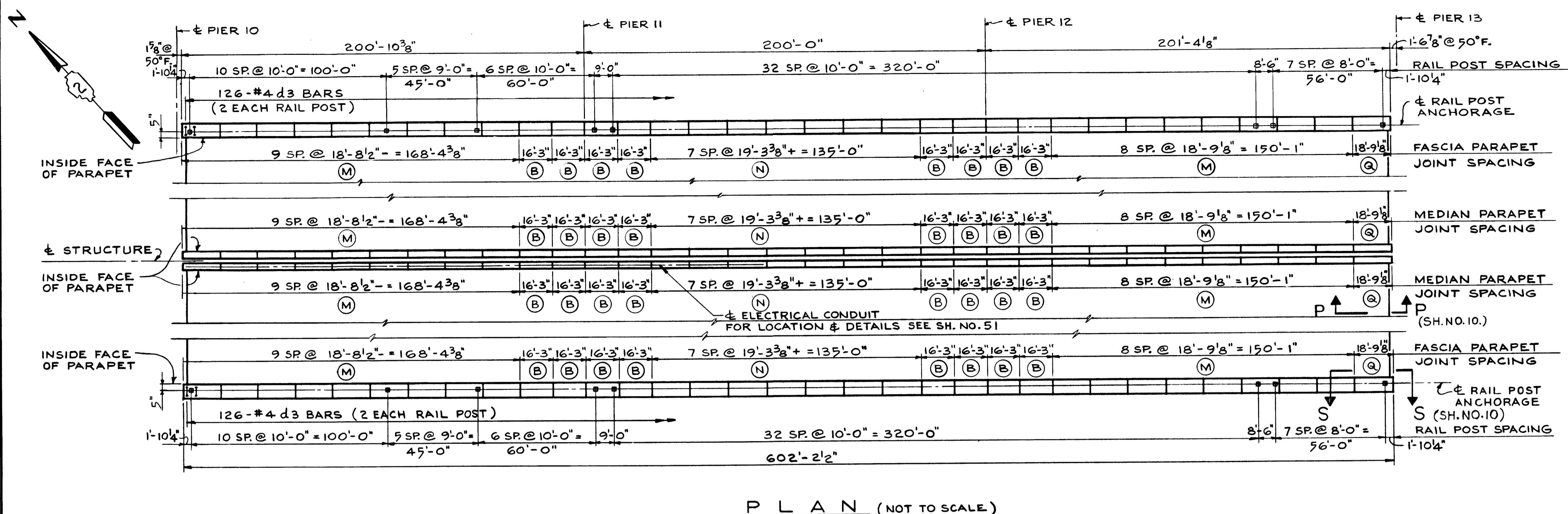


ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	20
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		

BAR LIST							
BAR	QUANTITY	N.B.	S.B.	TOTAL	SIZE	LENGTH	SHAPE
e1	48	48	96	4	16'-0"		
e8	108	108	216	4	18'-6"		
e9	42	42	84	4	19'-0"		
d3	126	126	252	4	2'-1"		□

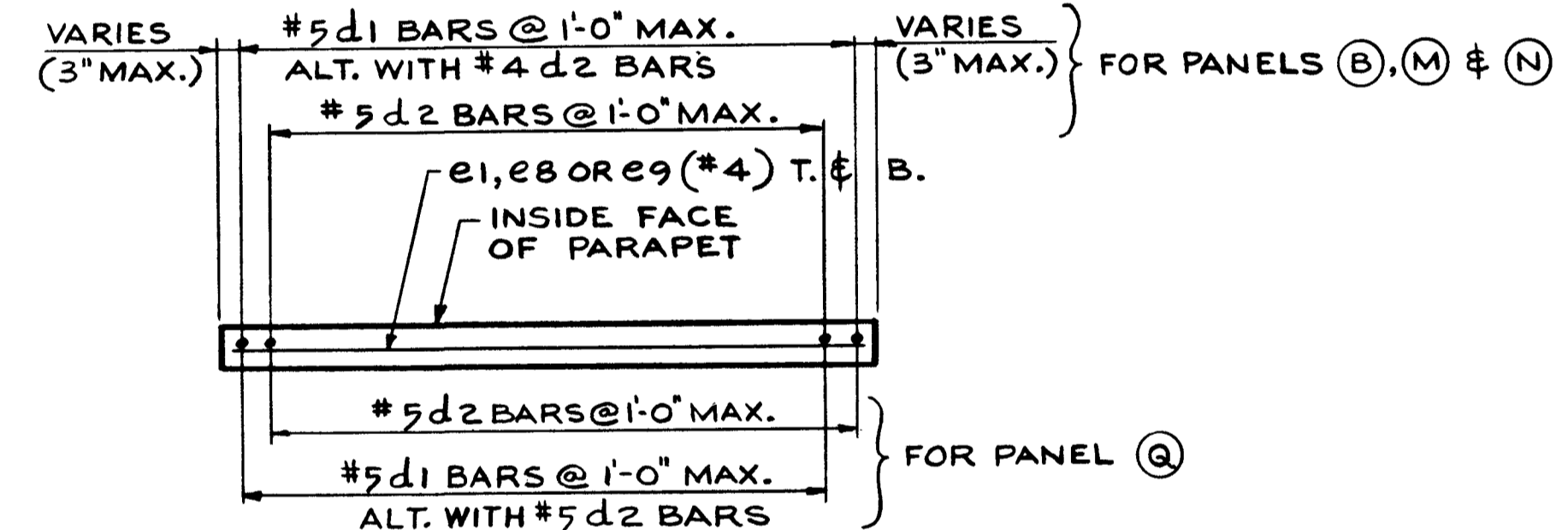


NOTE:  
FOR RAILING AND PARAPET  
JOINT DETAILS SEE SH. NO. 40



PLAN-TYPICAL FASCIA PARAPET  
PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL			
			VERTICAL *	HORIZONTAL		
N. BOUND	(B)	8	17-#4d	17-#5d1	—	4-#4e1
	(M)	17	20-#4d	20-#5d1	—	4-#4e8
	(N)	7	20-#4d	20-#5d1	—	4-#4e9
	(Q)	1	19-#4d	19-#5d1	2-#5d2	4-#4e8
S. BOUND	(B)	8	17-#4d	17-#5d1	—	4-#4e1
	(M)	17	20-#4d	20-#5d1	—	4-#4e8
	(N)	7	20-#4d	20-#5d1	—	4-#4e9
	(Q)	1	19-#4d	19-#5d1	2-#5d2	4-#4e8



PLAN-TYPICAL MEDIAN PARAPET  
PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL		
			VERTICAL *	HORIZONTAL	
N. BOUND	(B)	8	17-#5d1	16-#5d2	2-#4e1
	(M)	17	20-#5d1	19-#5d2	2-#4e8
	(N)	7	20-#5d1	19-#5d2	2-#4e9
	(Q)	1	19-#5d1	19-#5d2	2-#4e8
S. BOUND	(B)	8	17-#5d1	16-#5d2	2-#4e1
	(M)	17	20-#5d1	19-#5d2	2-#4e8
	(N)	7	20-#5d1	19-#5d2	2-#4e9
	(Q)	1	19-#5d1	19-#5d2	2-#4e8

\* - BARS d, d1 & d2 ARE DETAILED AND BILLED ON SH. NO. 17.

NOTE:  
WORK THIS SHEET WITH SH'S. NO. 17, 18 & 19.  
FOR ELECTRICAL CONDUIT DETAILS FOR NAVIGATION  
LIGHTING SEE SH. NO. 51  
FOR EXPANSION GUARD IN PARAPET DETAILS AND  
ADJUSTMENT SCHEDULE SEE SH. NO. 10.

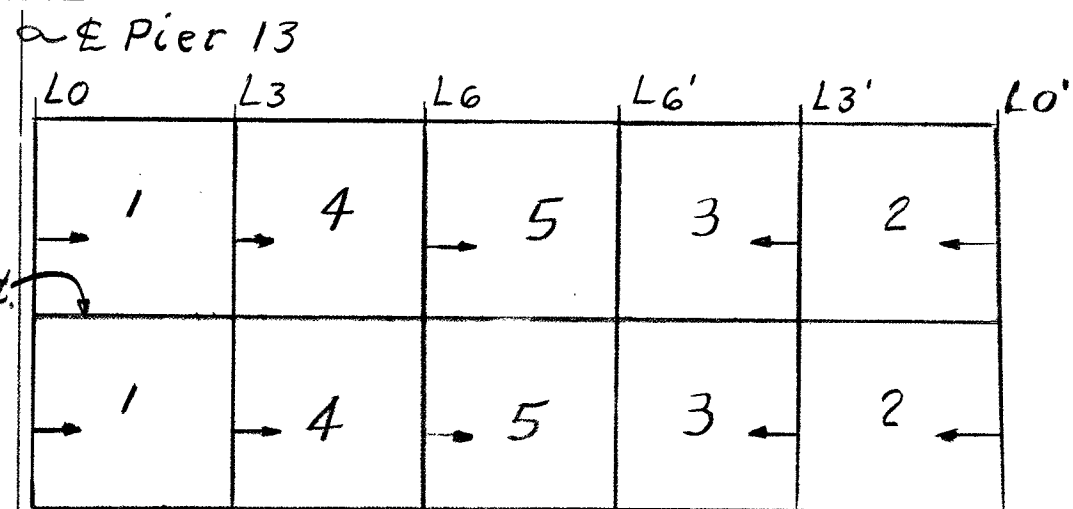
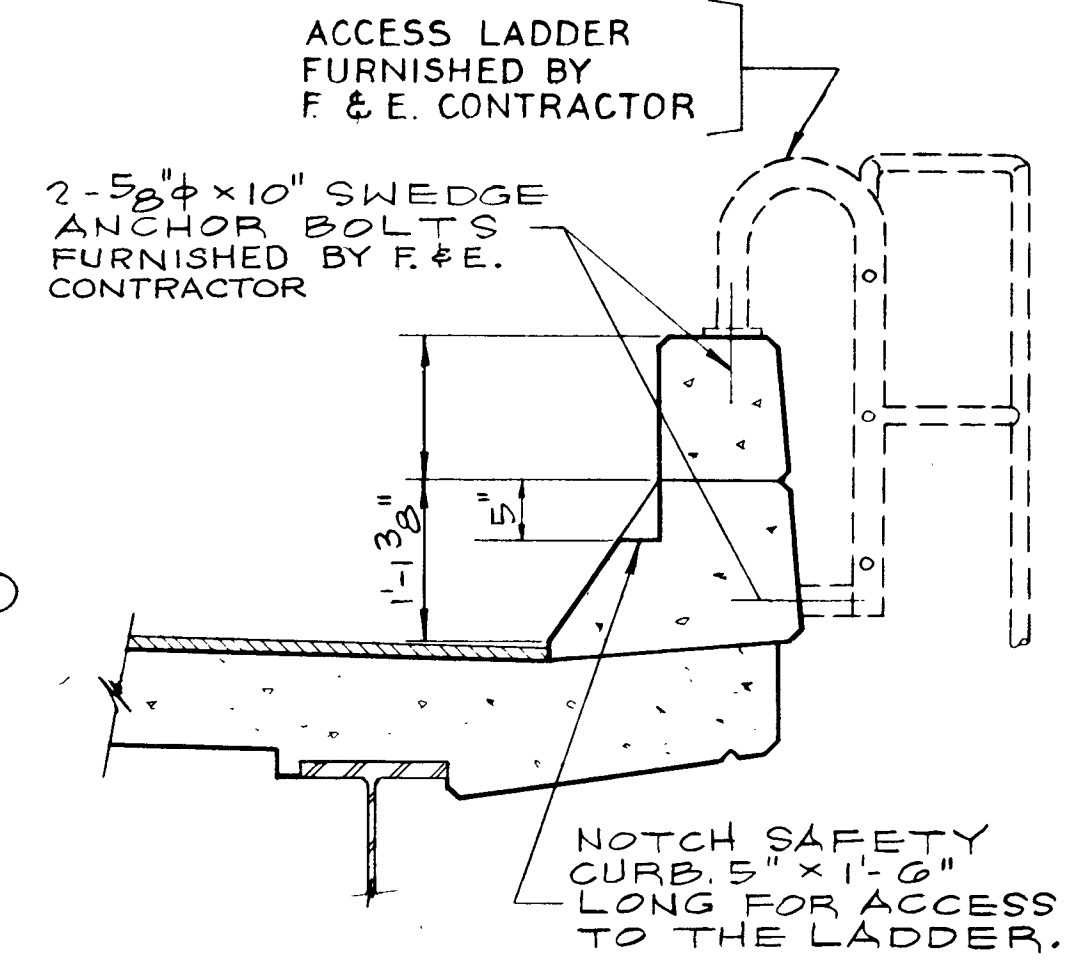
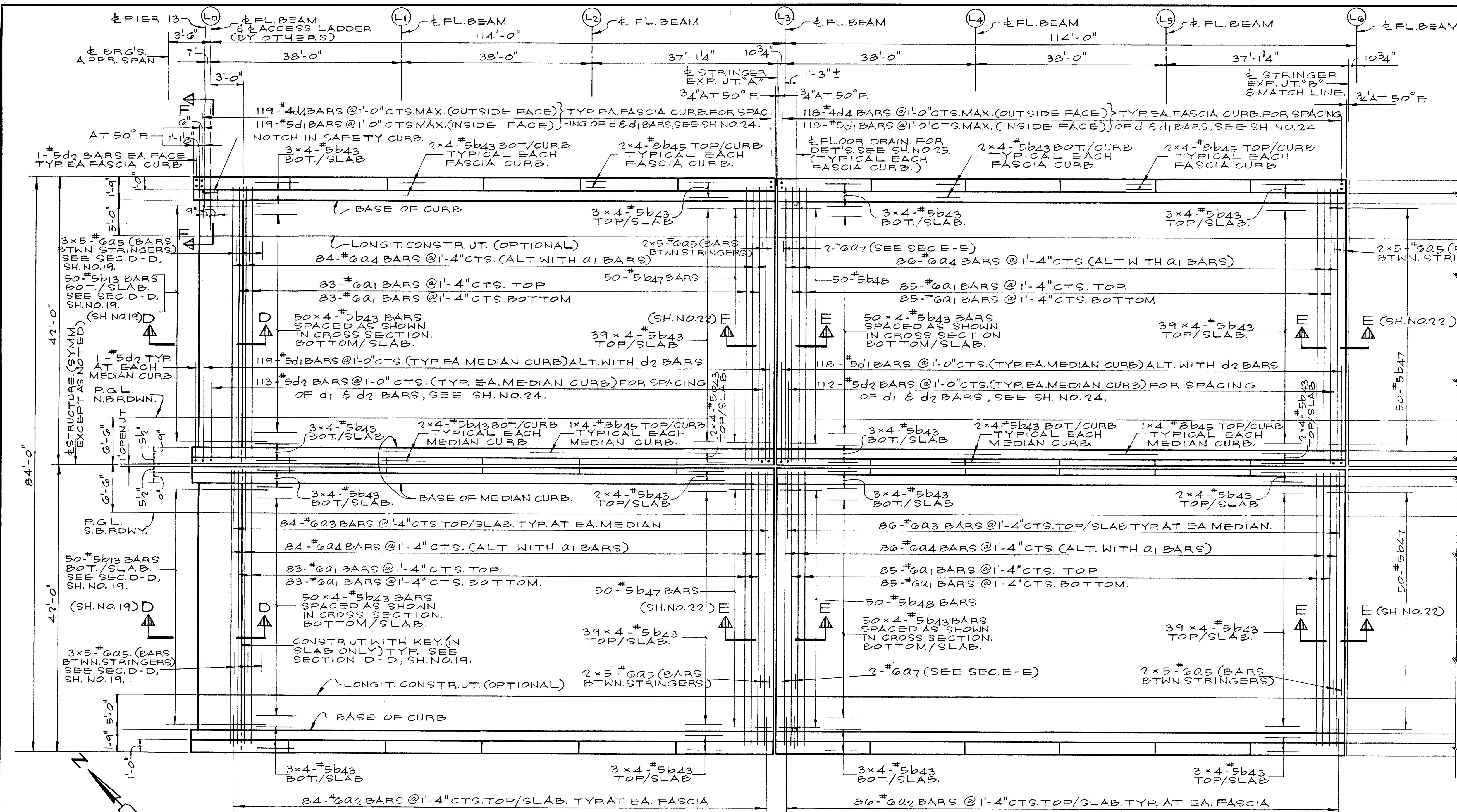
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU.YD.	2029
REINFORCEMENT BARS	POUND	5,112
ALUMINUM RAILING	LIN.FT.	1,205.5

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY R.K. MILLER  
CHECKED BY A. MILUNAS  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

SUPERSTRUCTURE - UNIT 4  
PARAPET & RAILING DETAILS  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

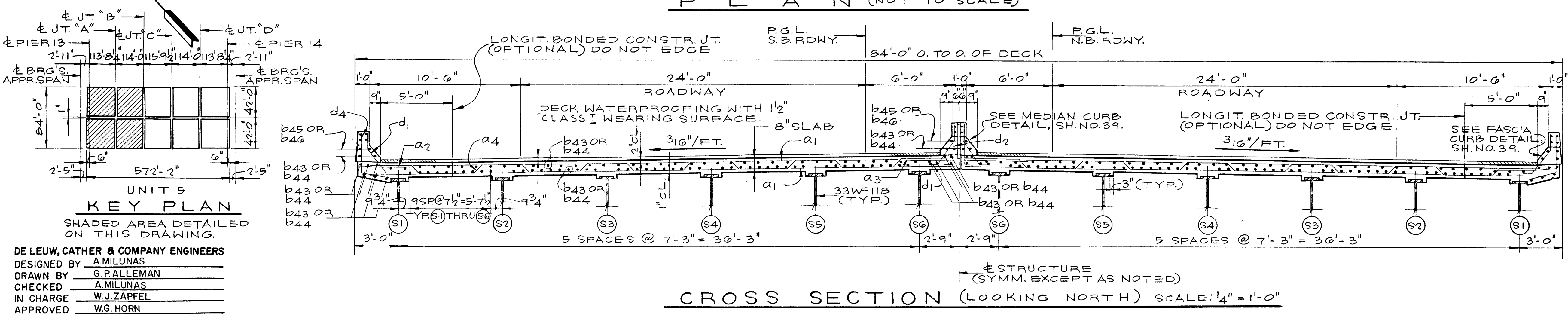


ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-10	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	21
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		



The deck concrete pour shall be made simultaneously on each side of the longitudinal joint. The sequence shown above shall be used, or as an alternate the Contractor may have the option of pouring simultaneously from each end toward the center of the structure.

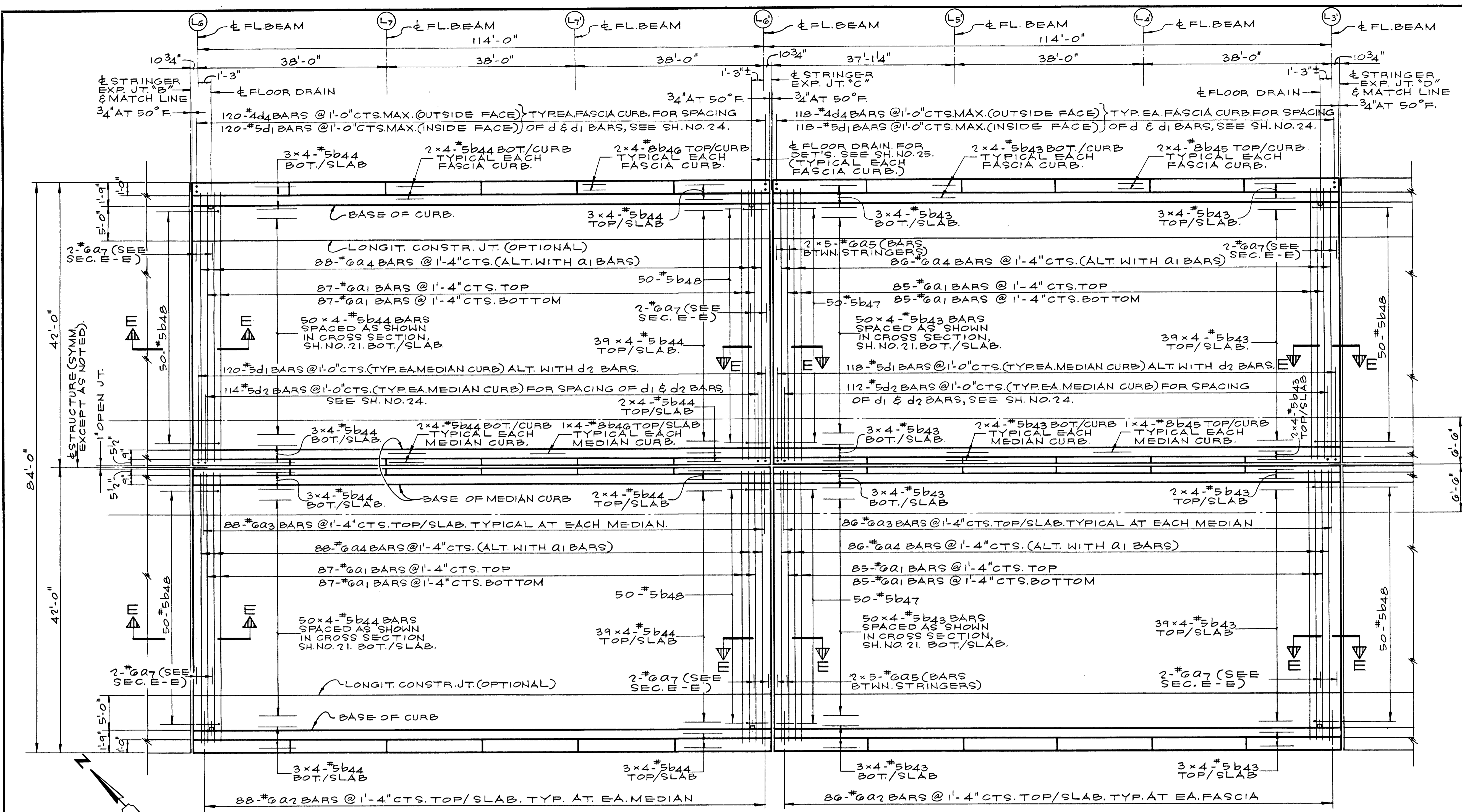
NOTES:  
 (L) DESIGNATES  $\phi$  OF FLOOR BEAM AND PANEL POINT OF THE ARCH SPAN.  
 WORK THIS SHEET WITH SH. NO. 22 THROUGH NO. 25.



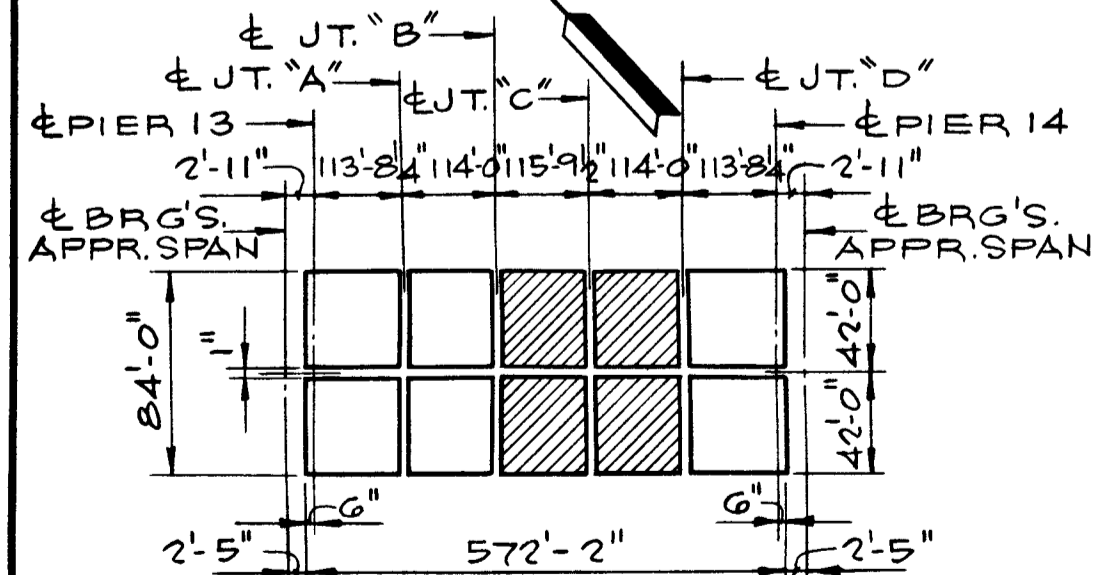
**SUPERSTRUCTURE - UNIT 5**  
**SPAN 14 PART I OF 3**  
 F.A.I. ROUTE 280 SECTION 81-10  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970

6-23-72 JMJ added pouring sequ.

ROUTE NO/SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	22
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		



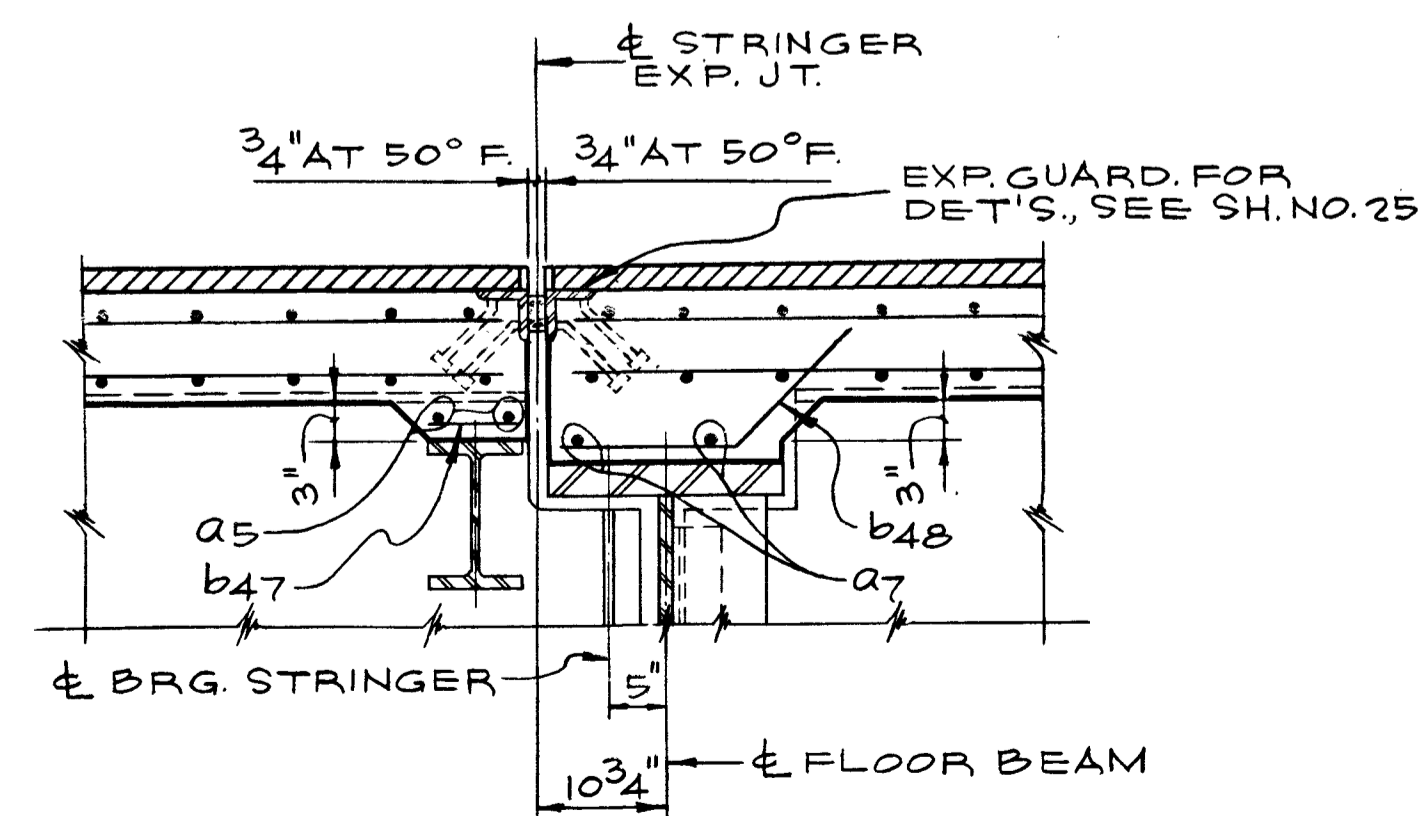
PLAN (NOT TO SCALE)



UNIT 5  
KEY PLAN

SHADED AREA DETAILED ON THIS DRAWING.

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY A. MILUNAS  
 DRAWN BY G. PALLEMAN  
 CHECKED A. MILUNAS  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN



SECTION E-E  
SCALE: 3/4" = 1'-0"

NOTES:  
 (L7) - DESIGNATES  $\phi$  OF FLOOR BEAM AND PANEL POINT OF THE ARCH SPAN.  
 WORK THIS SHEET WITH SH'S. NO. 21, 23, 24 AND 25.

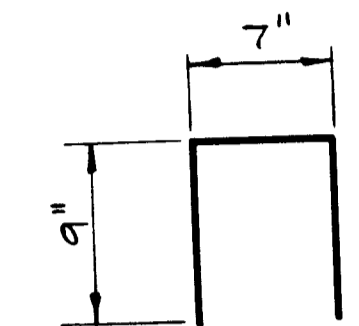
SUPERSTRUCTURE - UNIT 5  
 SPAN 14 PART 2 OF 3  
 F.A.I. ROUTE 280 SECTION 81-1D  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970



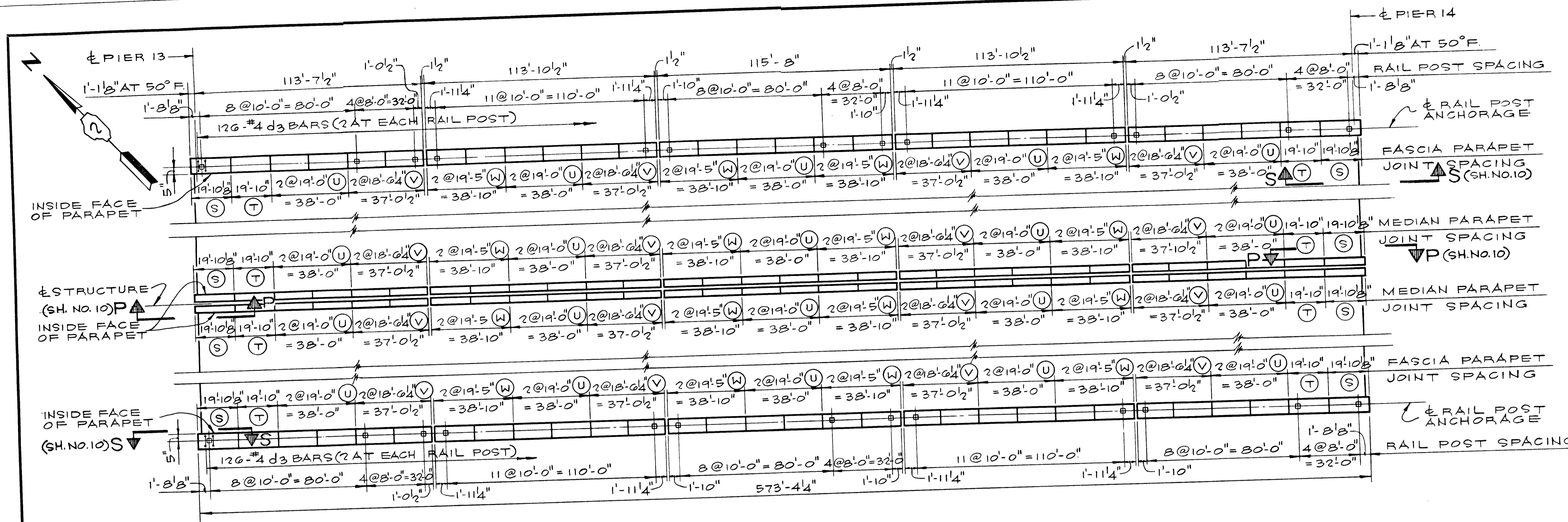


ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	24
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		

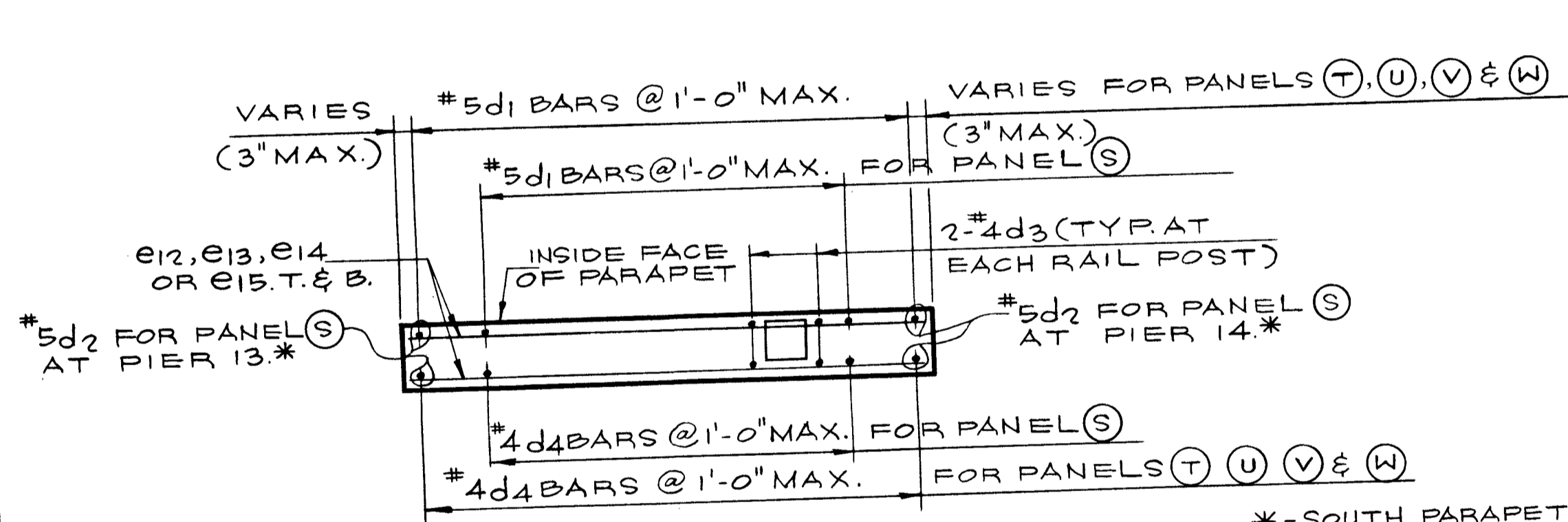
BAR LIST						
BAR	QUANTITY	TOTAL	SIZE	LENGTH	SHAPE	
E12	24	24	48	4	19'-7"	—
E13	60	60	120	4	18'-9"	—
E14	48	48	96	4	18'-3"	—
E15	48	48	96	4	19'-2"	—
d3	126	126	252	4	2'-1"	n



NOTE:  
FOR RAILING AND PARAPET JOINT DETAILS, SEE SH. NO. 40.  
WORK THIS SHEET WITH SH'S. NO. 21, 22, 23 & 25.  
FOR EXP. GUARD IN PARAPET DETAILS AND ADJUSTMENT SCHEDULE, SEE SH. NO. 10.

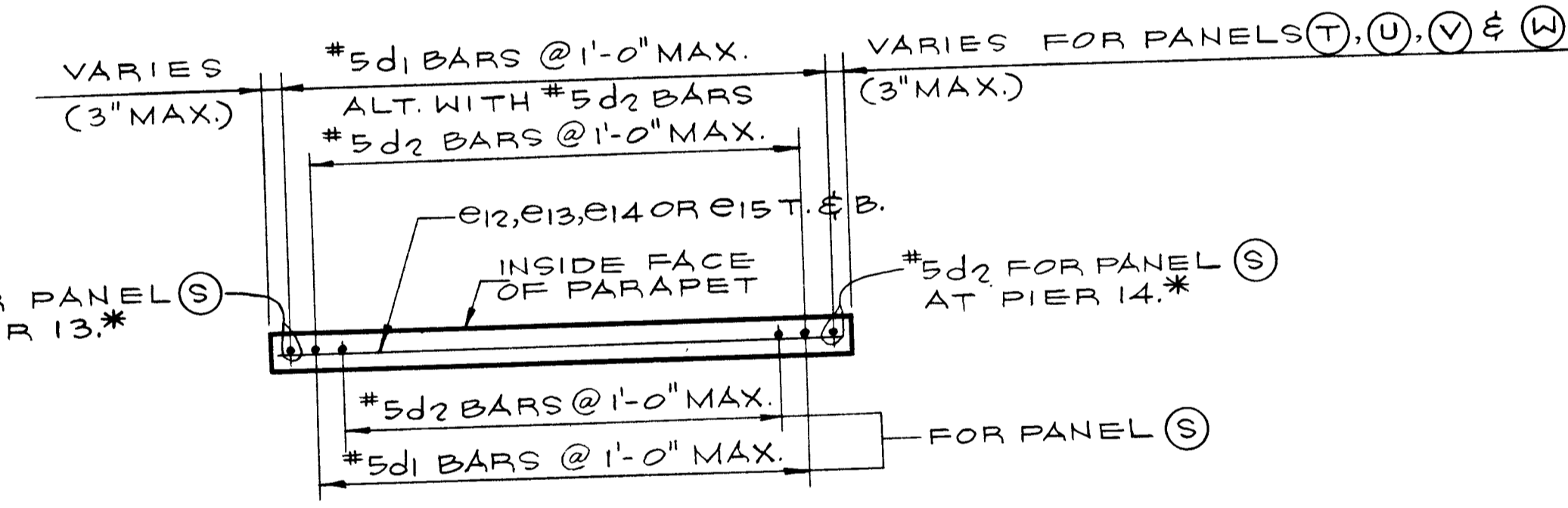


PLAN  
(NOT TO SCALE)



PLAN-TYPICAL FASCIA PARAPET  
PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NUMBER OF BARS EACH PANEL			
			VERTICAL **	HORIZONTAL		
N. BOUND	(S)	2	20-#4d4	20-#5d1	2-#5d2	4-#4e12
	(T)	2	21-#4d4	21-#5d1	—	4-#4e12
	(U)	10	20-#4d4	20-#5d1	—	4-#4e13
	(V)	8	19-#4d4	19-#5d1	—	4-#4e14
	(W)	8	20-#4d4	20-#5d1	—	4-#4e15
S. BOUND	(S)	2	20-#4d4	20-#5d1	2-#5d2	4-#4e12
	(T)	2	21-#4d4	21-#5d1	—	4-#4e12
	(U)	10	20-#4d4	20-#5d1	—	4-#4e13
	(V)	8	19-#4d4	19-#5d1	—	4-#4e14
	(W)	8	20-#4d4	20-#5d1	—	4-#4e15



PLAN-TYPICAL MEDIAN PARAPET  
PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL		
			VERTICAL **	HORIZONTAL	
N. BOUND	(S)	2	20-#5d1	20-#5d2	2-#4e12
	(T)	2	21-#5d1	20-#5d2	2-#4e12
	(U)	10	20-#5d1	19-#5d2	2-#4e13
	(V)	8	19-#5d1	18-#5d2	2-#4e14
	(W)	8	20-#5d1	19-#5d2	2-#4e15
S. BOUND	(S)	2	20-#5d1	20-#5d2	2-#4e12
	(T)	2	21-#5d1	20-#5d2	2-#4e12
	(U)	10	20-#5d1	19-#5d2	2-#4e13
	(V)	8	19-#5d1	18-#5d2	2-#4e14
	(W)	8	20-#5d1	19-#5d2	2-#4e15

\*\* - BARS d1, d2, & d4 ARE DETAILED AND BILLED ON SH. NO. 23.

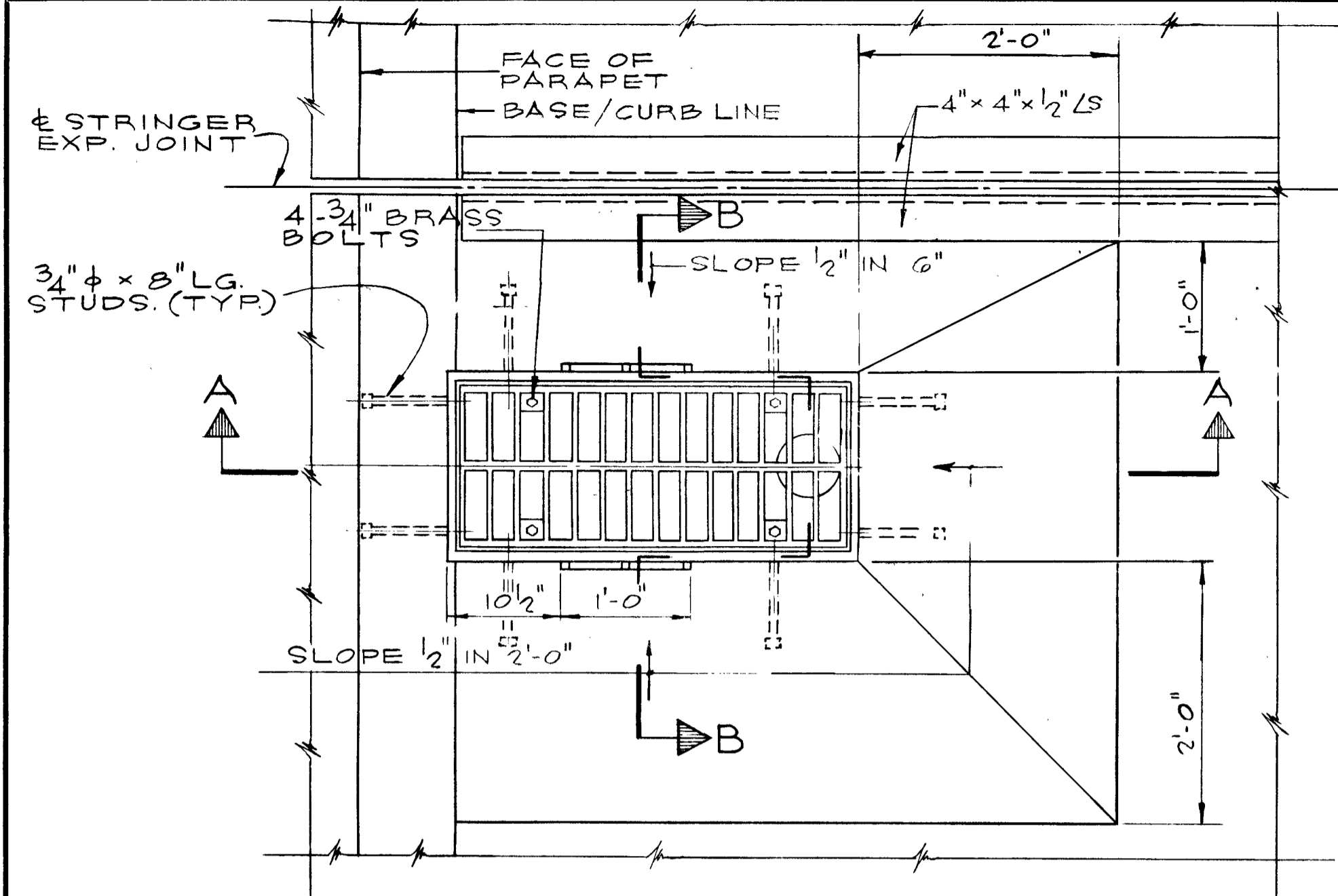
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	193.0
REINFORCEMENT BARS	POUND	488.1
ALUMINUM RAILING	LINE FT.	1,147

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY A. MILUNAS  
DRAWN BY G. ALLEMAN  
CHECKED A. MILUNAS  
IN CHARGE WJ. ZAPFEL  
APPROVED WG. HORN

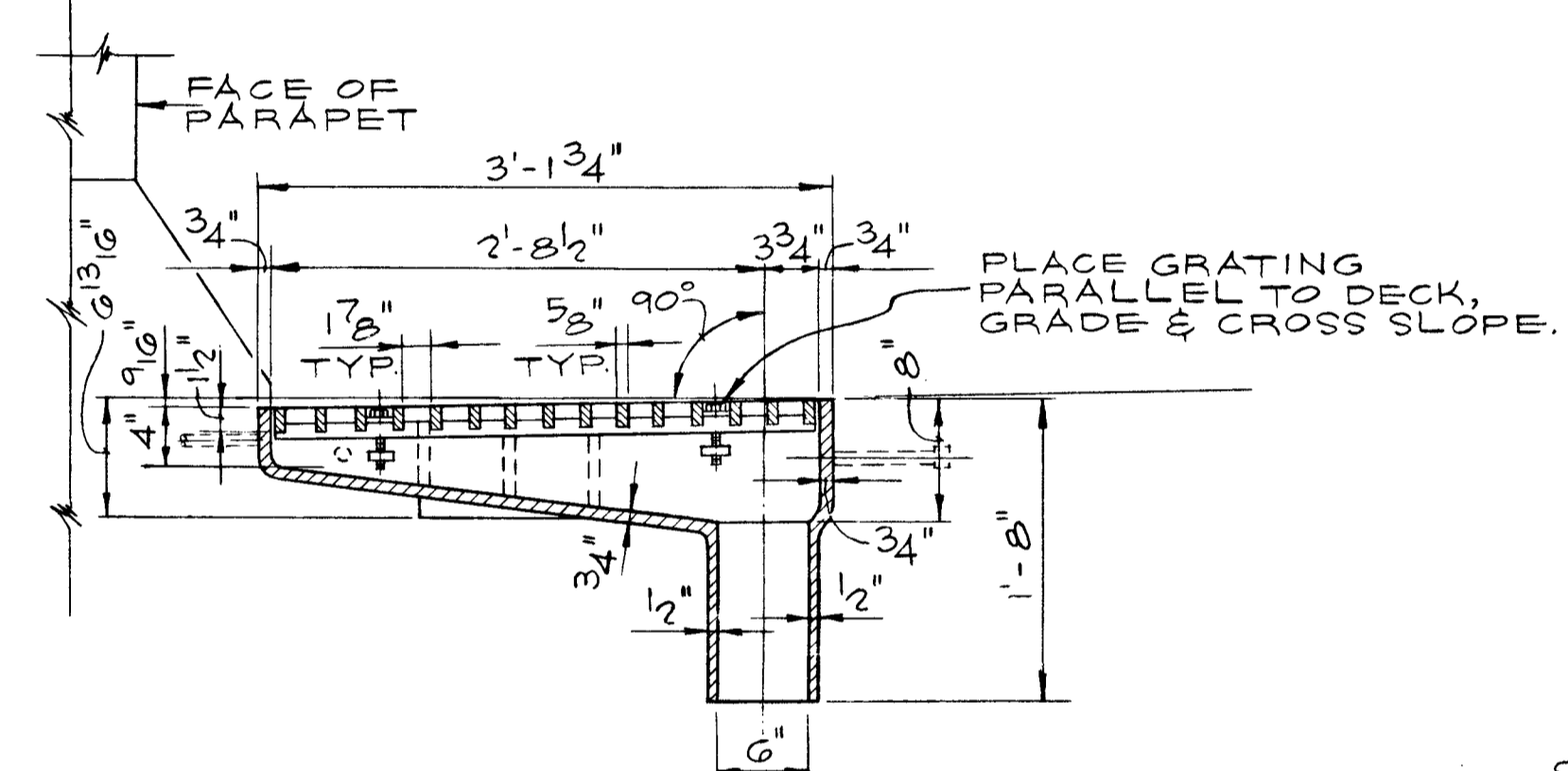
SUPERSTRUCTURE - UNIT 5  
PARAPET & RAILING DETAILS  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970



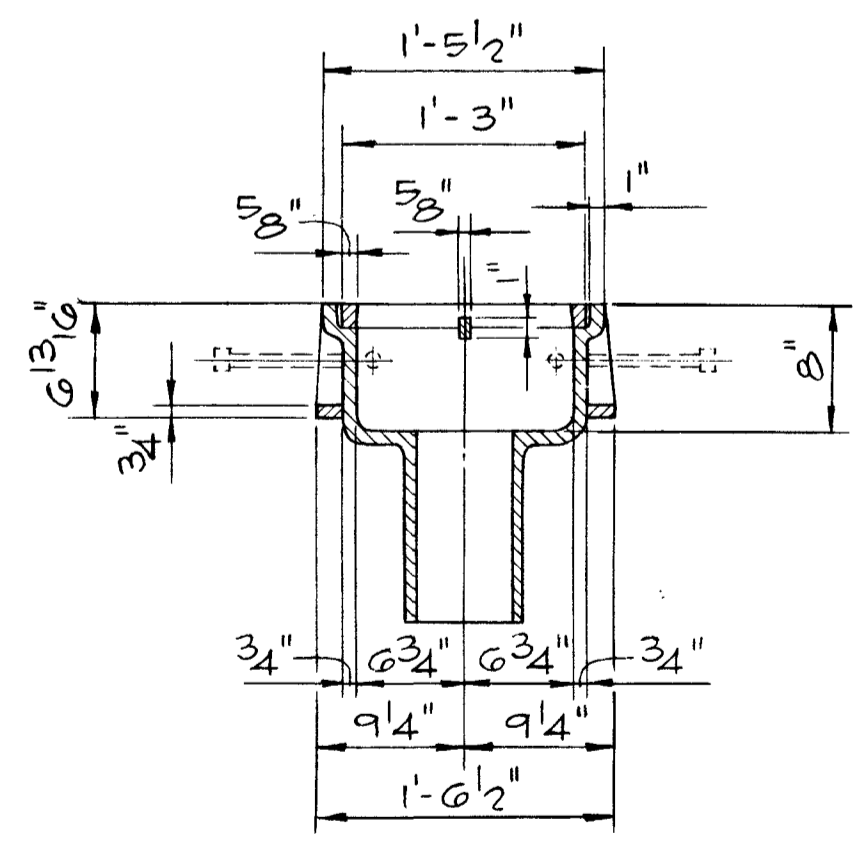
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	25
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



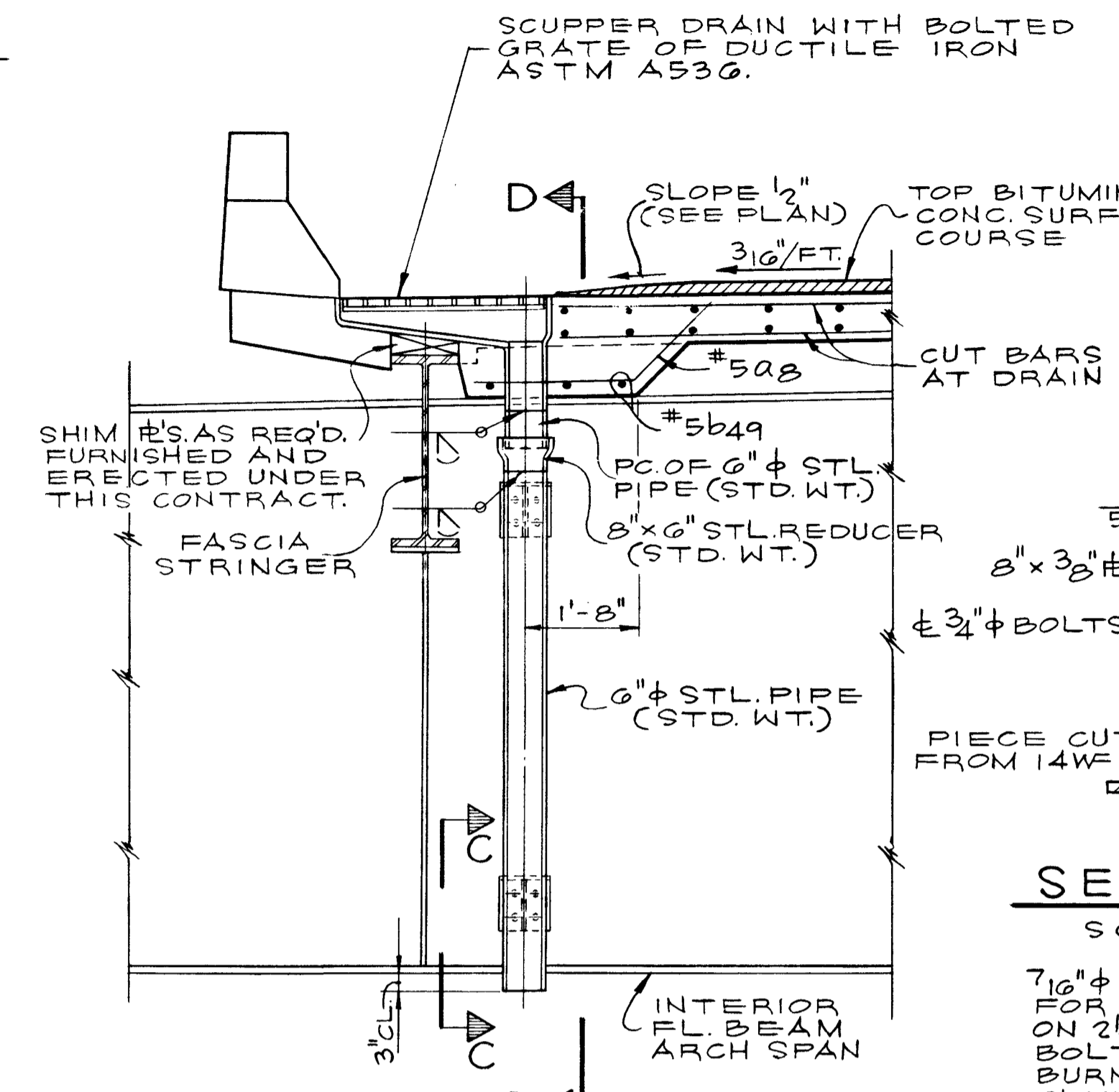
**PLAN OF DRAIN**  
SCALE: 1" = 1'-0"



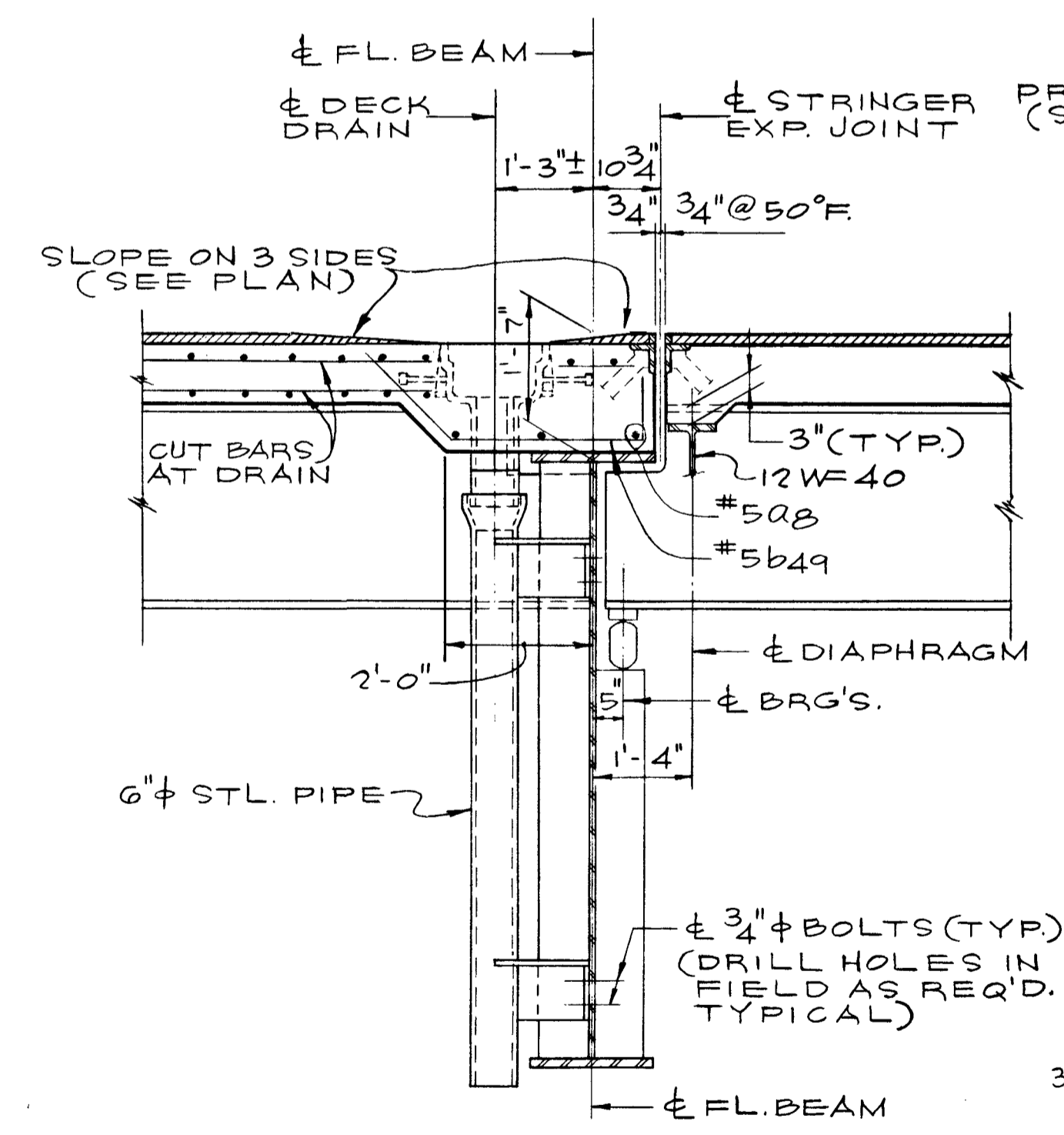
**SECTION A-A**  
SCALE: 1" = 1'-0"



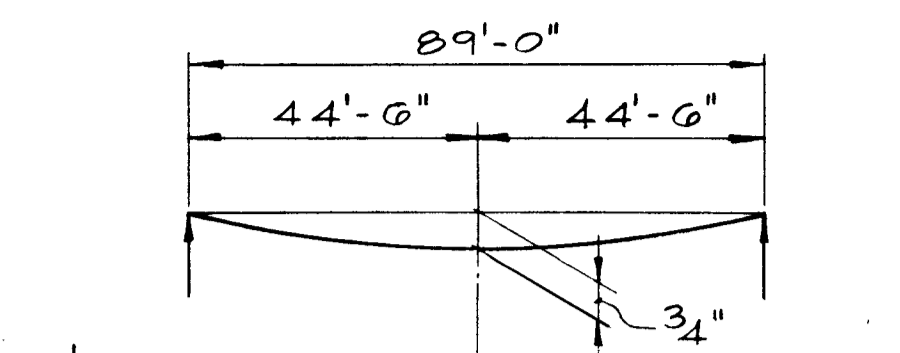
**SECTION B-B**  
SCALE: 1" = 1'-0"



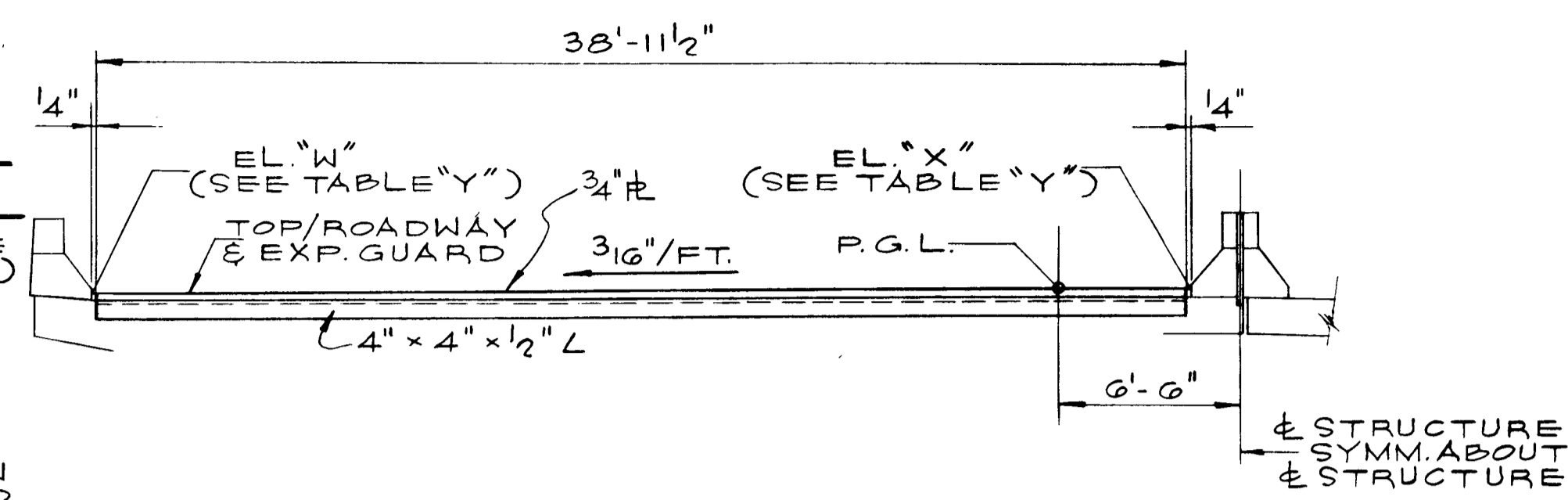
**TYPICAL DRAIN DETAIL**  
SCALE: 1/2" = 1'-0"



**SECTION D-D**  
SCALE: 1/2" = 1'-0"



**INT. FLOOR BEAM D.L. DEFLECTION DIAGRAM**  
(INCLUDES WEIGHT OF CONCRETE AND 1/2" WEARING SURFACE ONLY)



**EXPANSION GUARD - HALF ELEVATION**  
(NOT TO SCALE)

**TABLE "Y"**

EXPANSION JOINT	PROFILE GRADE* ELEVATION	ELEVATION "W"*	ELEVATION "X"*
"A"	618.696	618.170	618.778
"B"	618.879	618.353	618.961
"C"	618.879	618.353	618.961
"D"	618.696	618.170	618.778

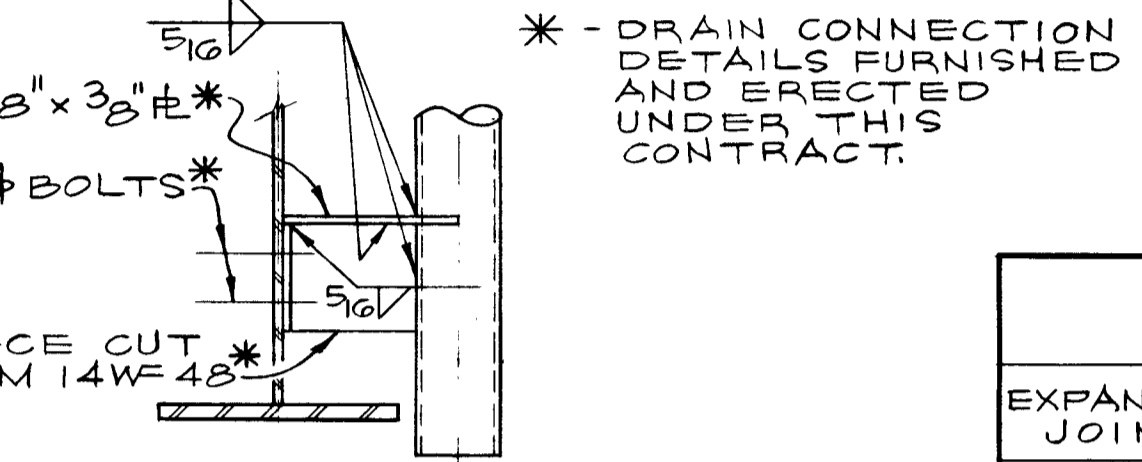
**EXPANSION GUARD NOTES:**

ALL STRUCTURAL STEEL SHALL BE ASTM-A36.

SEE SECTION 503.07 (C) OF THE STANDARD SPECIFICATIONS FOR EXPANSION GUARD JOINT OPENINGS.

ALL EXPANSION GUARD ASSEMBLIES SHALL BE FABRICATED AND ERECTED TO CONFORM TO THE ROADWAY CROWN, SLOPE OF GRADE AT THE GUARD AND ADJUSTED FOR THE FLOOR BEAM DEAD LOAD DEFLECTION DUE TO CONCRETE & WEARING SURFACE. THEY SHALL BE ASSEMBLED IN THE SHOP FOR INSPECTION.

P.G.L. DENOTES PROFILE GRADE LINE.



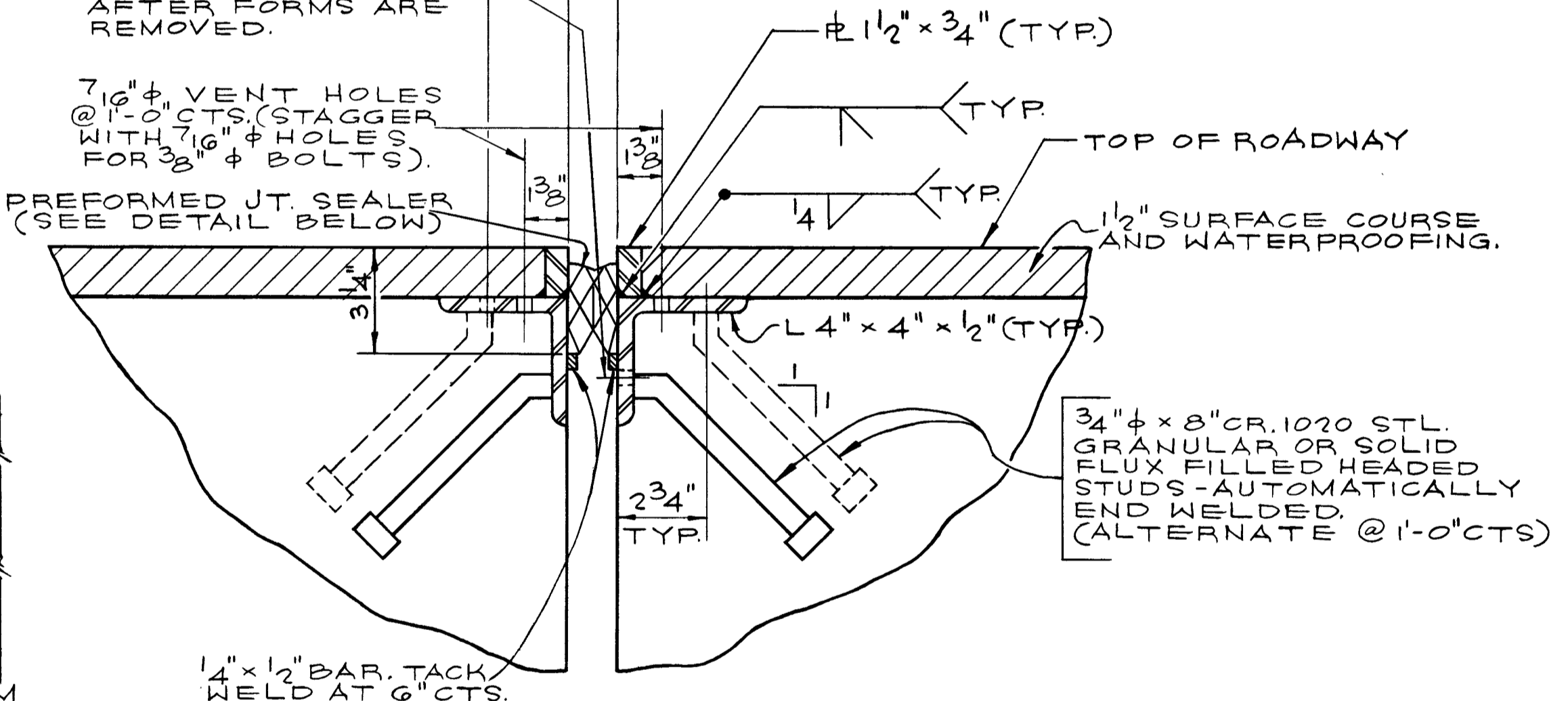
**SECTION C-C**  
SCALE: 3/4" = 1'-0"

7/16" x 1/2" BAR. TACK WELD AT 6" CTS.

7/16" x 1/2" BAR. TACK WELD AT 6" CTS.

7/16" x 1/2" BAR. TACK WELD AT 6" CTS.

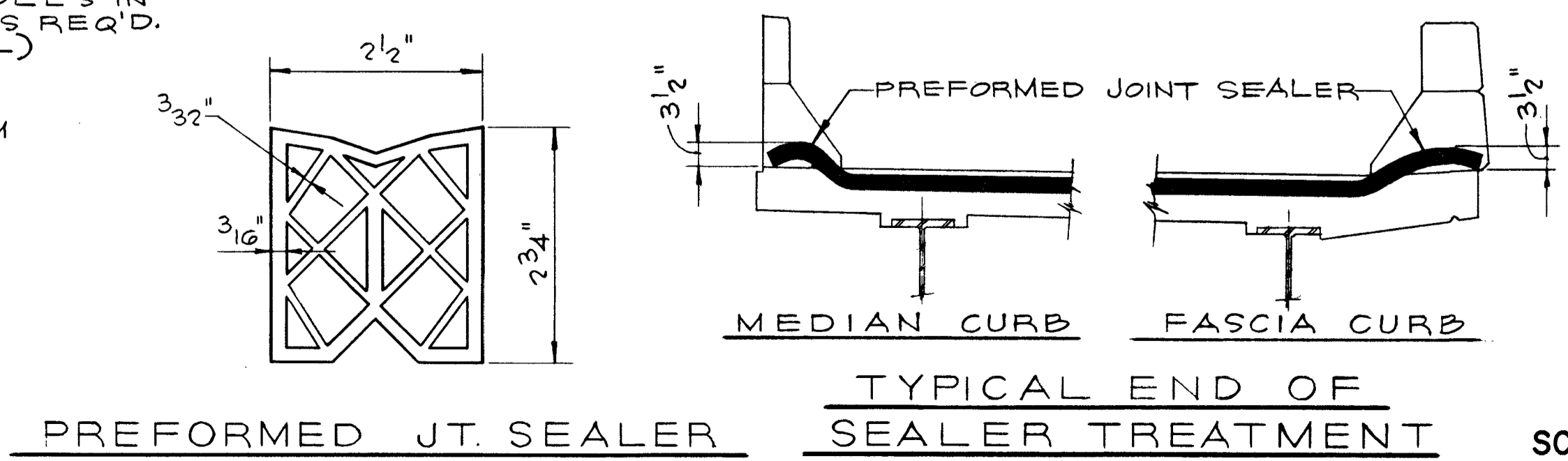
7/16" x 1/2" BAR. TACK WELD AT 6" CTS.



**DETAIL OF STRINGER EXPANSION GUARD**  
SCALE: 3" = 1'-0"

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
F. & E. STRUCTURAL STEEL	LBS.	16,400
PREFORMED JOINT SEALER	LIN. FT.	337



**PREFORMED JT. SEALER**  
**TYPICAL END OF SEALER TREATMENT**

**NOTE:**

FOR FLOOR DRAIN LOCATION, SEE SH'S. NO. 21, 22 & 23.

FOR DETAILS OF ADDITIONAL REINFORCING AT FLOOR DRAINS, SEE SH. NO. 23.

ALL PARTS OF DECK DRAIN ASSEMBLY INCLUDED WITH FABRICATION AND ERECTION OF STRUCTURAL STEEL UNDER THIS CONTRACT.

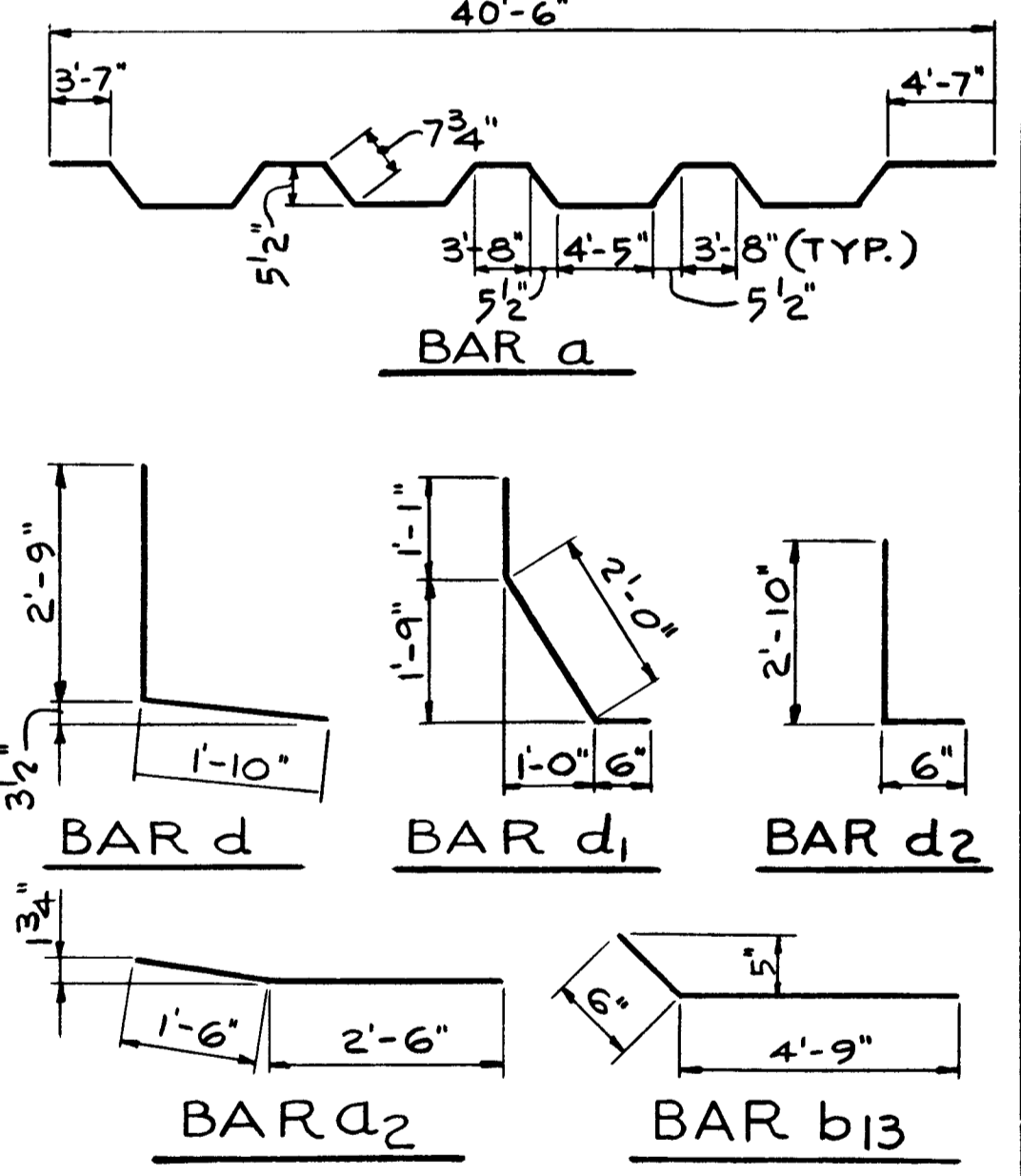
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY G. PALLEMAN  
CHECKED A. MILUNAS  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

**SUPERSTRUCTURE - UNIT 5**  
**DECK DRAIN & EXPANSION GUARD DETAILS**  
F.A.I. ROUTE 280. SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

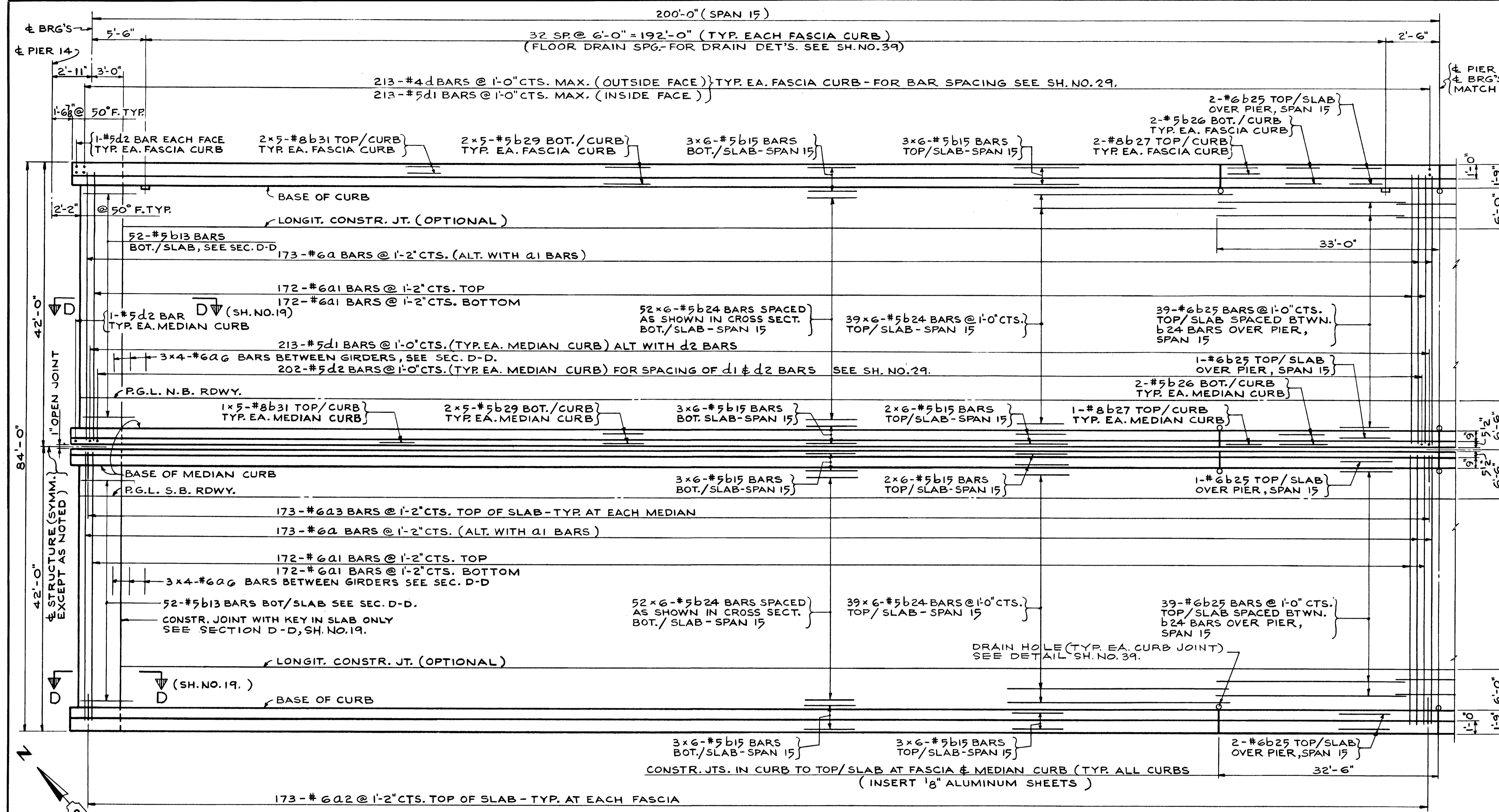
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	26
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	

BAR LIST							
BAR	QUANTITY	N.B.	S.B.	TOTAL	SIZE	LENGTH	SHAPE
a	517	517	1034	6	42'-0"		W
a1	1032	1032	2064	6	40'-6"		W
a2	517	517	1034	6	4'-0"		W
a3	517	517	1034	6	4'-3"		W
a6	12	12	24	6	8'-6"		W
b13	52	52	104	5	5'-3"		W
b15	66	66	132	5	32'-0"		W
b21	714	714	1428	5	34'-6"		W
b24	1158	1158	2316	5	31'-11"		W
b25	252	252	504	6	28'-2"		W
b26	16	16	32	5	32'-3"		W
b27	12	12	24	8	32'-3"		W
b28	20	20	40	5	34'-7"		W
b29	28	28	56	5	34'-8"		W
b30	15	15	30	8	35'-2"		W
b31	27	27	54	8	35'-3"		W
d	635	635	1270	4	4'-7"		L
d1	1270	1270	2540	5	3'-7"		L
d2	605	605	1210	5	3'-4"		L

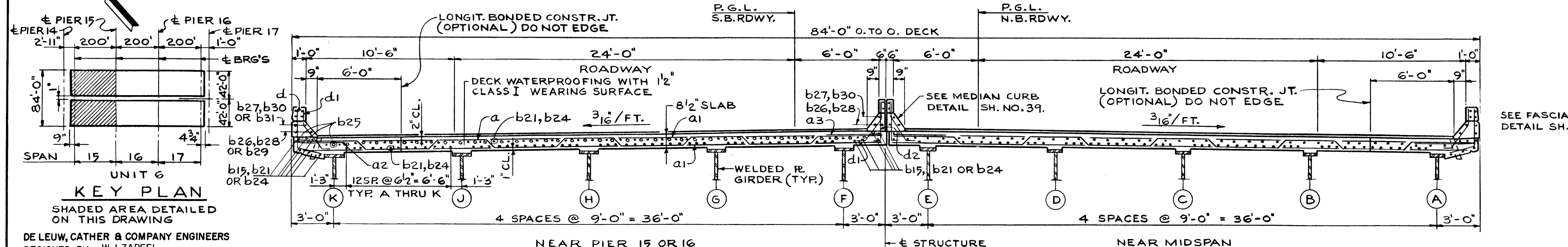
NOTES:  
 BARS INDICATED THUS 39 x 6-#5 ETC. INDICATES 39 LINES OF BARS WITH 6 LENGTHS PER LINE.  
 MIN. BAR LAP = 24 DIA.  
 ALL BAR DIMENSIONS ARE OUT TO OUT.



NOTE:  
 WORK THIS SHEET WITH SH'S NO. 27, 28 & 29.  
 FOR SUGGESTED POURING SEQUENCE SEE SH. NO. 27.



PLAN (NOT TO SCALE)



CROSS SECTION (LOOKING NORTH)

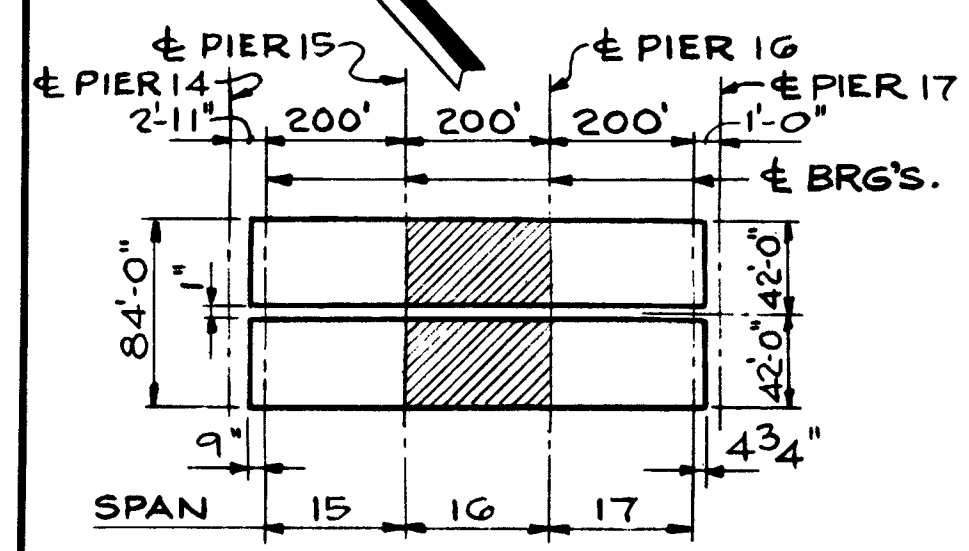
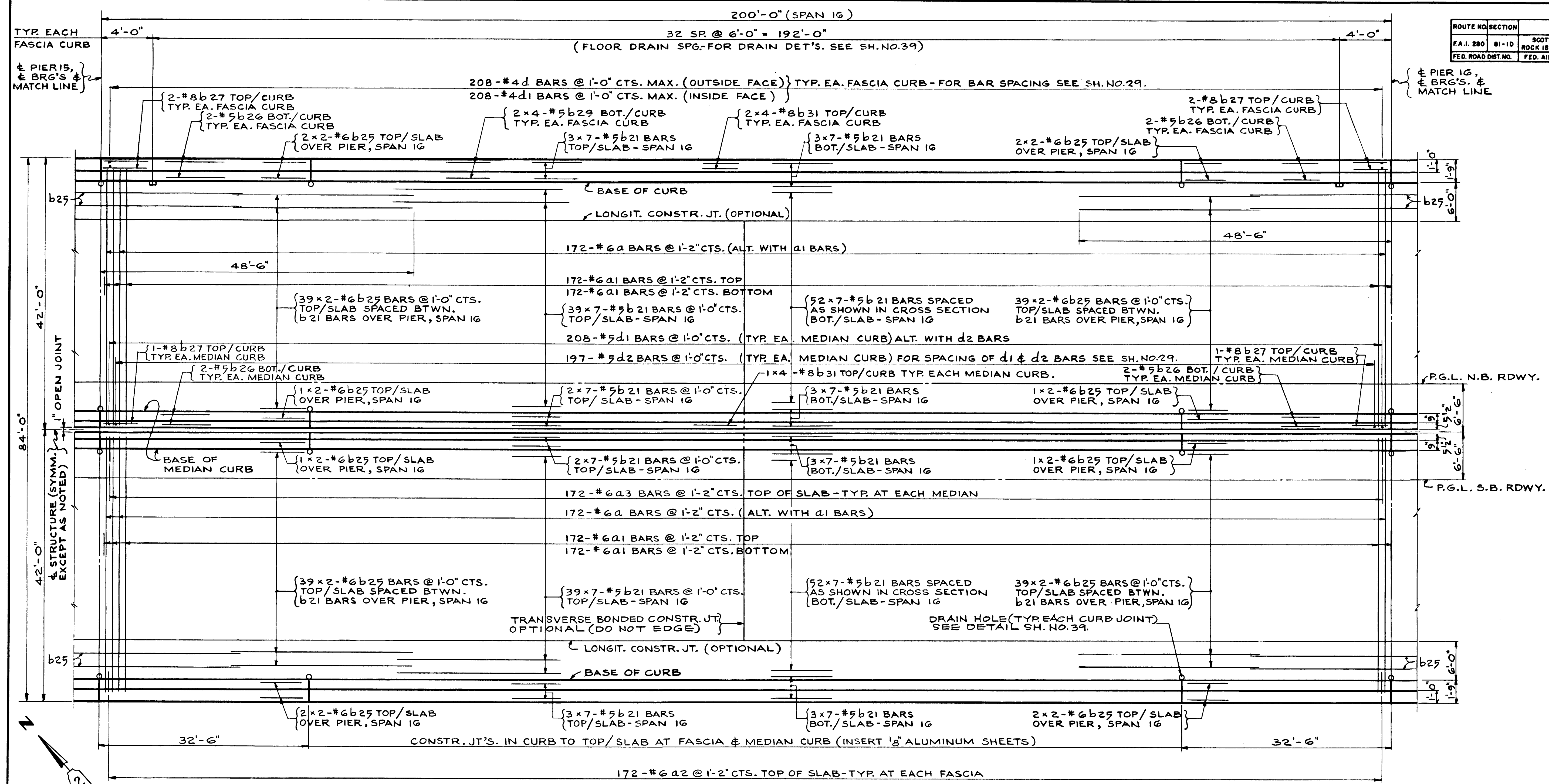
SCALE: 1/4" = 1'-0"

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY R.K. MILLER  
 CHECKED A. MILUNAS  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

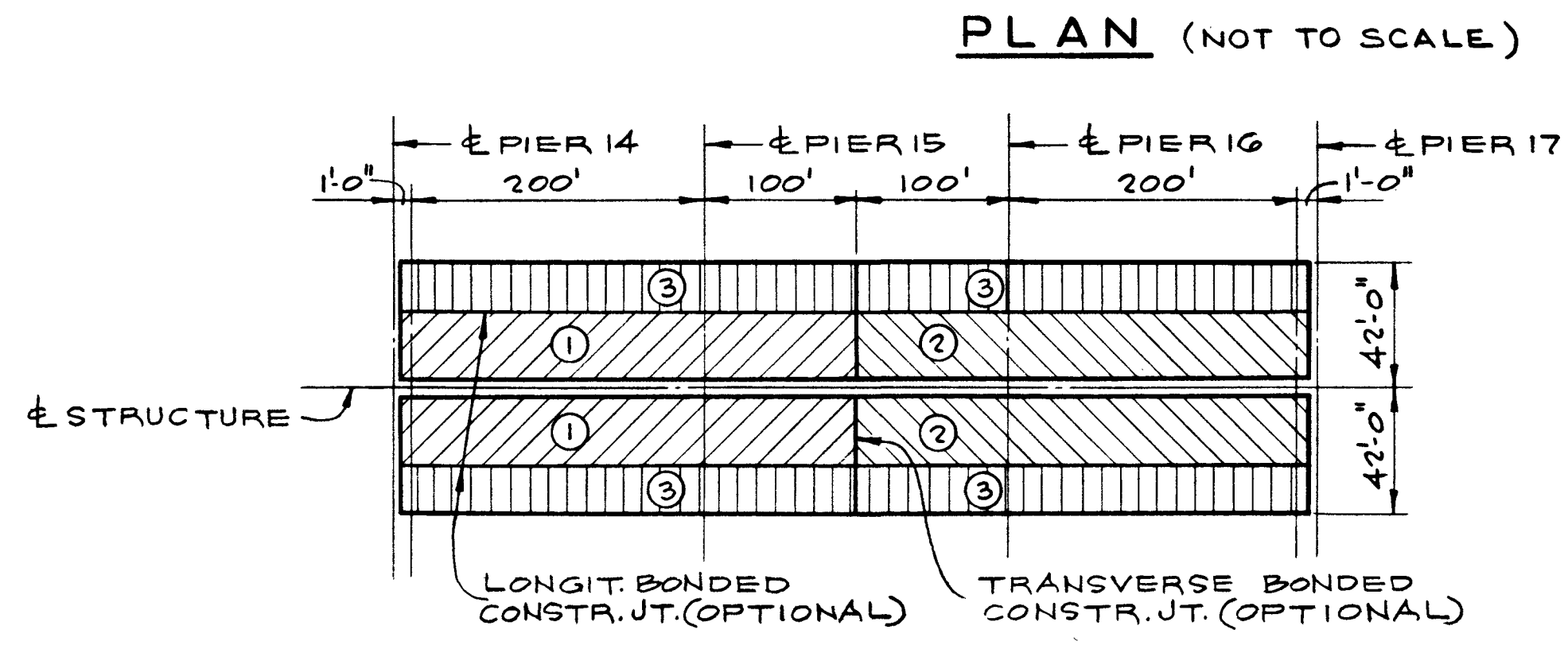
**SUPERSTRUCTURE - UNIT 6**  
**SPAN 15**  
 F.A.I. ROUTE 280 SECTION 81-1D  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	27
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



**KEY PLAN**  
 SHADED AREA DETAILED ON THIS DRAWING  
 DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY R.K. MILLER  
 CHECKED BY A. MILUNAS  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN



**SUGGESTED POURING SEQUENCE**  
 UNIT 6 SPANS 15 THRU 17

**NOTE:**  
 WORK THIS SHEET WITH SH'S. NO. 26, 28 & 29.

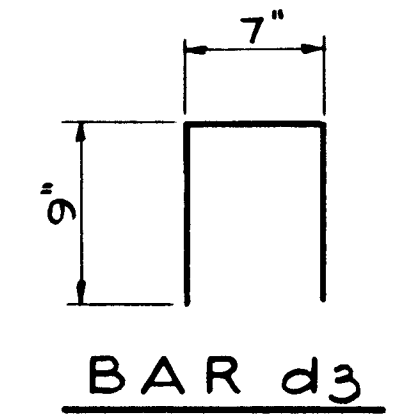
**SUPERSTRUCTURE - UNIT 6**  
**SPAN 16**  
 F.A.I. ROUTE 280 SECTION 81-ID  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970



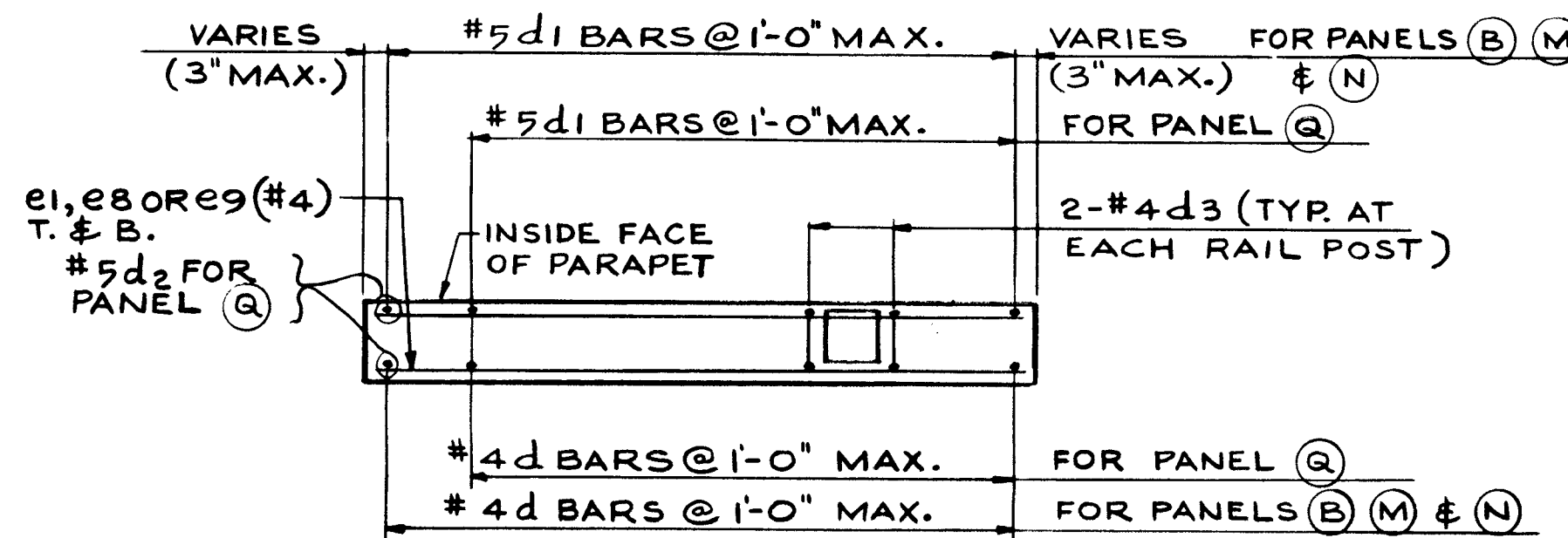
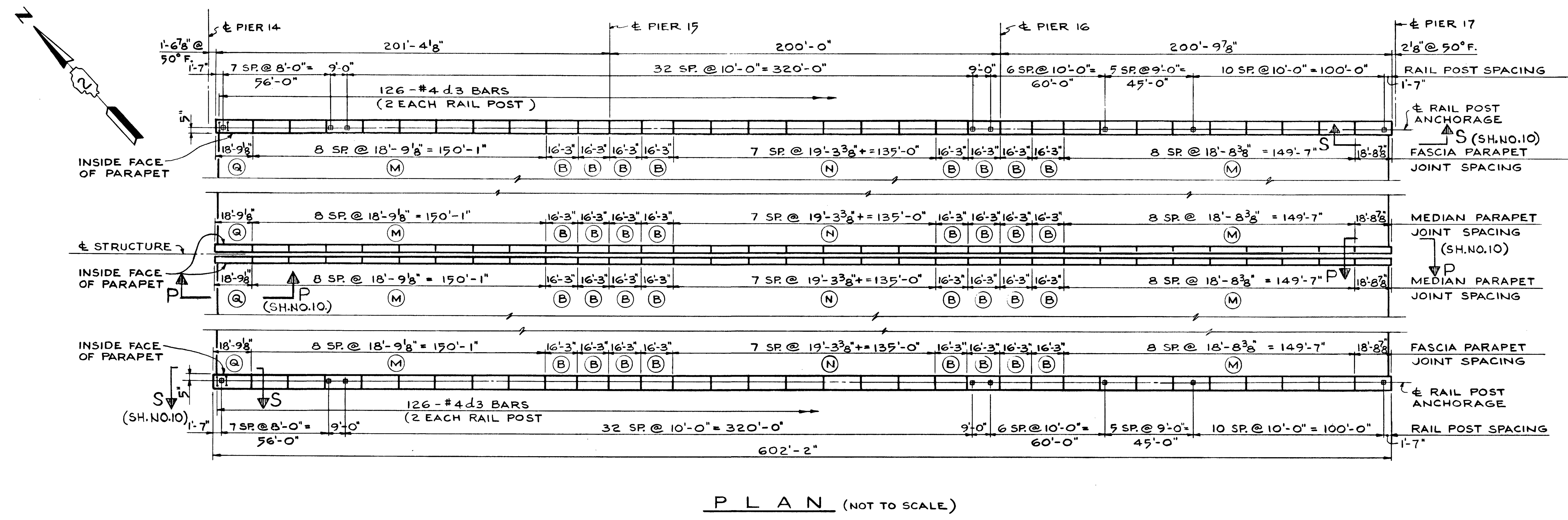


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	29
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			

BAR LIST						
BAR	QUANTITY		TOTAL	SIZE	LENGTH	SHAPE
	N.B.	S.B.				
e1	48	48	96	4	16'-0"	—
e8	108	108	216	4	18'-6"	—
e9	42	42	84	4	19'-0"	—
d3	126	126	252	4	2'-1"	□

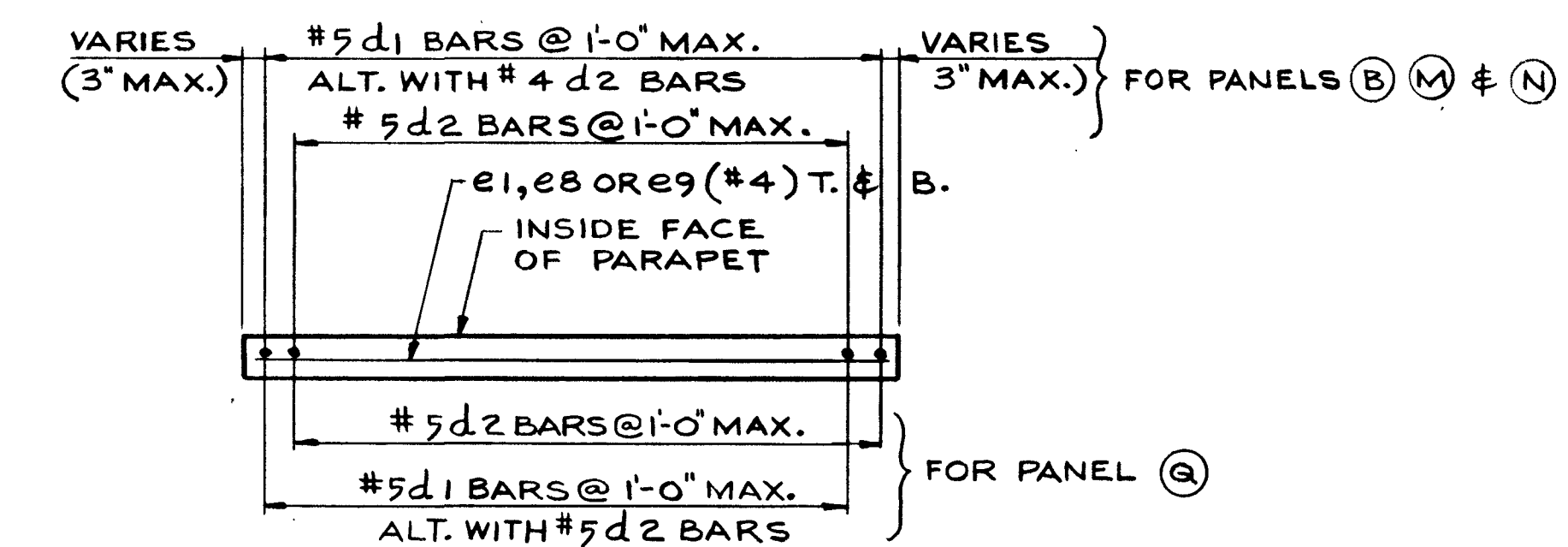


NOTE:  
FOR RAILING AND PARAPET JOINT DETAILS SEE SH. NO. 40.  
FOR EXPANSION GUARD IN PARAPET DETAILS AND ADJUSTMENT SCHEDULE SEE SH. NO. 10.



PLAN-TYPICAL FASCIA PARAPET PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL			
			VERTICAL *	HORIZONTAL	VERTICAL *	HORIZONTAL
N. BOUND	(B)	8	17-#4d	17-#5d1	—	4-#4e1
	(M)	17	20-#4d	20-#5d1	—	4-#4e8
	(N)	7	20-#4d	20-#5d1	—	4-#4e9
	(Q)	1	19-#4d	19-#5d1	2-#5d2	4-#4e8
S. BOUND	(B)	8	17-#4d	17-#5d1	—	4-#4e1
	(M)	17	20-#4d	20-#5d1	—	4-#4e8
	(N)	7	20-#4d	20-#5d1	—	4-#4e9
	(Q)	1	19-#4d	19-#5d1	2-#5d2	4-#4e8



PLAN-TYPICAL MEDIAN PARAPET PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL		
			VERTICAL *	HORIZONTAL	VERTICAL *
N. BOUND	(B)	8	17-#5d1	16-#5d2	2-#4e1
	(M)	17	20-#5d1	19-#5d2	2-#4e8
	(N)	7	20-#5d1	19-#5d2	2-#4e9
	(Q)	1	19-#5d1	19-#5d2	2-#4e8
S. BOUND	(B)	8	17-#5d1	16-#5d2	2-#4e1
	(M)	17	20-#5d1	19-#5d2	2-#4e8
	(N)	7	20-#5d1	19-#5d2	2-#4e9
	(Q)	1	19-#5d1	19-#5d2	2-#4e8

\* - BARS d, d1 & d2 ARE DETAILED AND BILLED ON SH. NO. 26.

NOTE:  
WORK THIS SHEET WITH SH'S. NO. 26, 27 & 28.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	202.9
REINFORCEMENT BARS	POUND	5,112
ALUMINUM RAILING	LIN. FT.	1,205.5

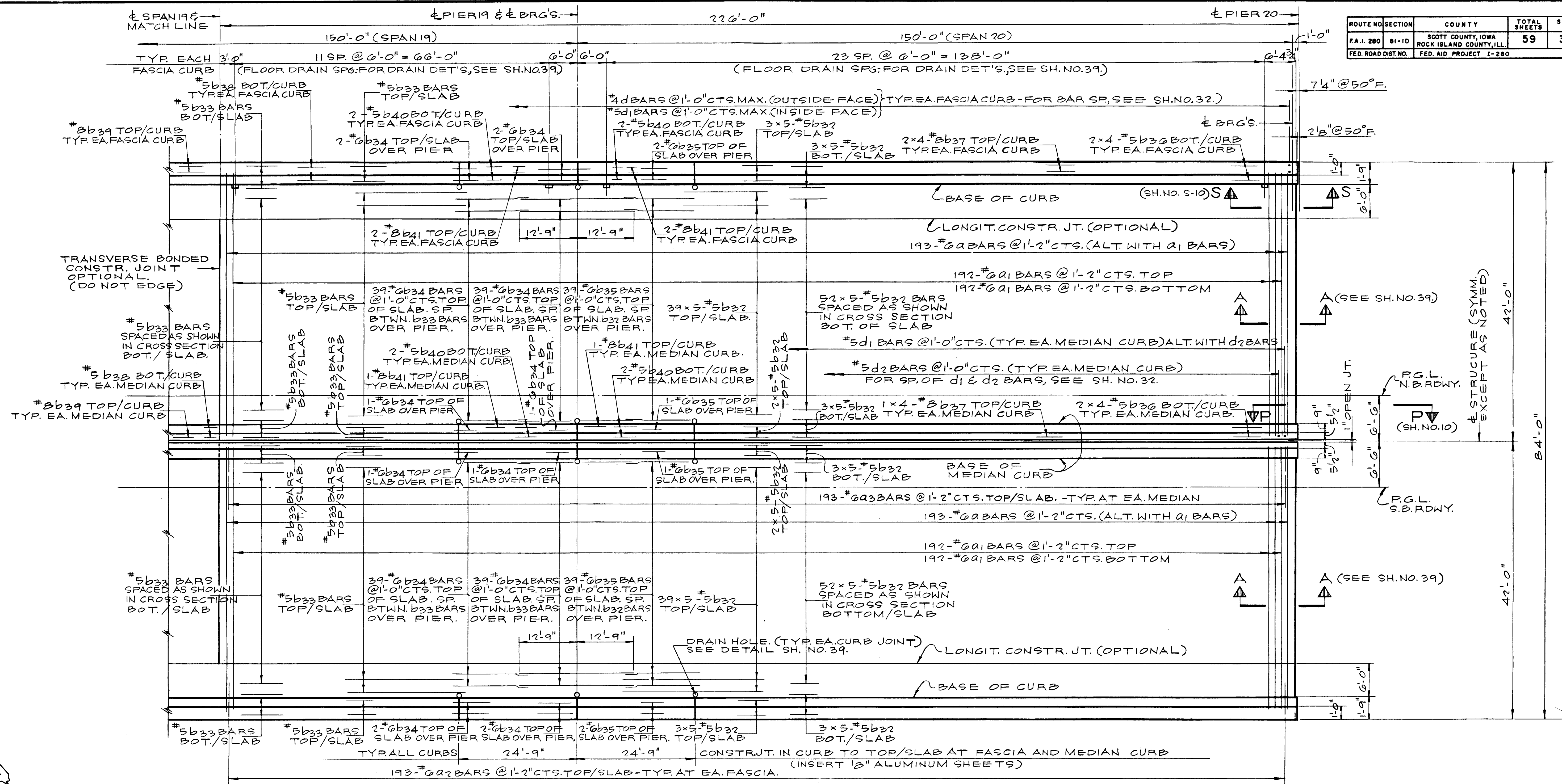
DE LEUW, CATHY & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY R.K. MILLER  
CHECKED BY A. MILUNAS  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

**SUPERSTRUCTURE - UNIT 6  
PARAPET & RAILING DETAILS**  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970





ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	31
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



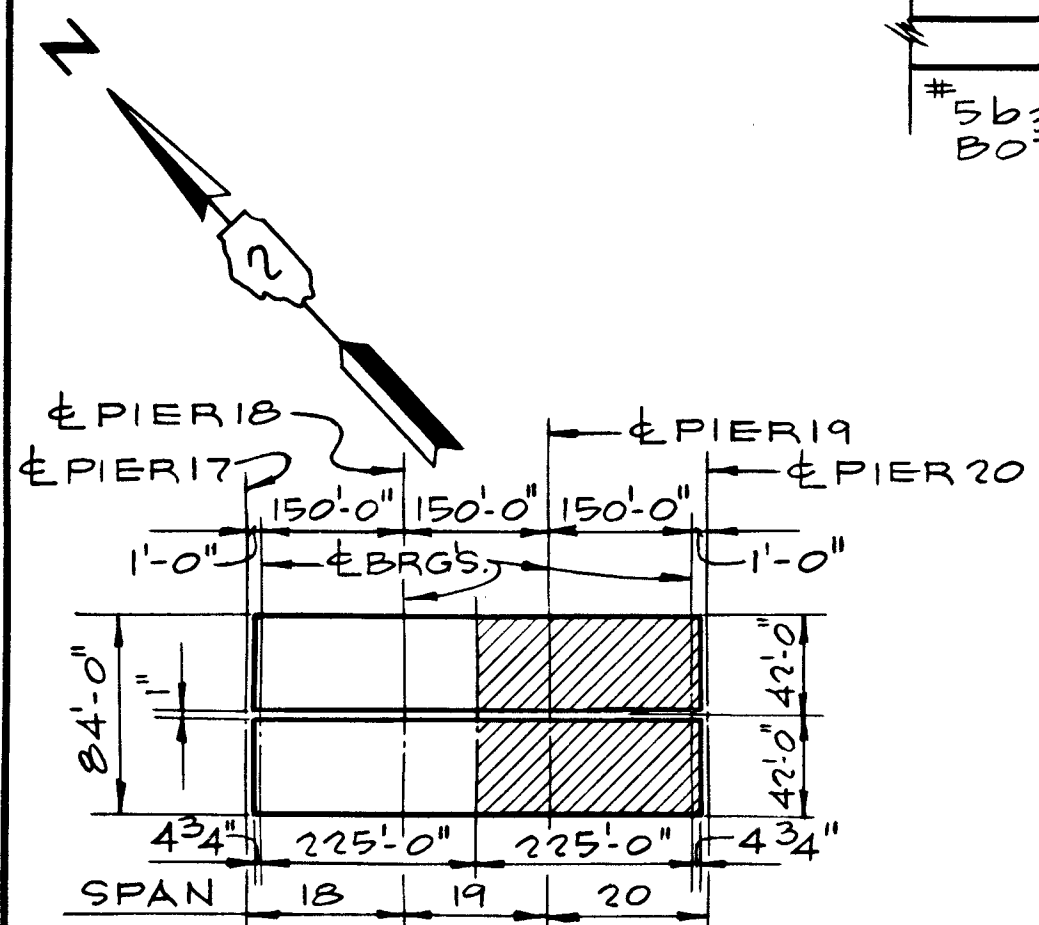
**HALF PLAN**  
(NOT TO SCALE)

**NOTE:**  
FOR FASCIA AND MEDIAN CURB SECTIONS, FLOOR DRAINS, ALUMINUM SHEETS, DECK WATERPROOFING DETAILS AND METHOD OF DETERMINING FILLET HEIGHT 'b', SEE SH. NO. 39. WORK THIS SHEET WITH SH'S. NO. 30 & 32.

ITEM	UNIT	QUANTITY
CLASS X CONCRETE *	CU. YD.	1,025.5
REINFORCEMENT BARS *	POUND	245,886
PROTECTIVE COAT	SQ. YD.	625.3
BITUMINOUS CONCRETE SURFACE COURSE CLASS I (1 1/2" THICK)	TON	329.7
COAL TAR INTERLAYER PROTECTIVE COAT	SQ. YD.	3,908

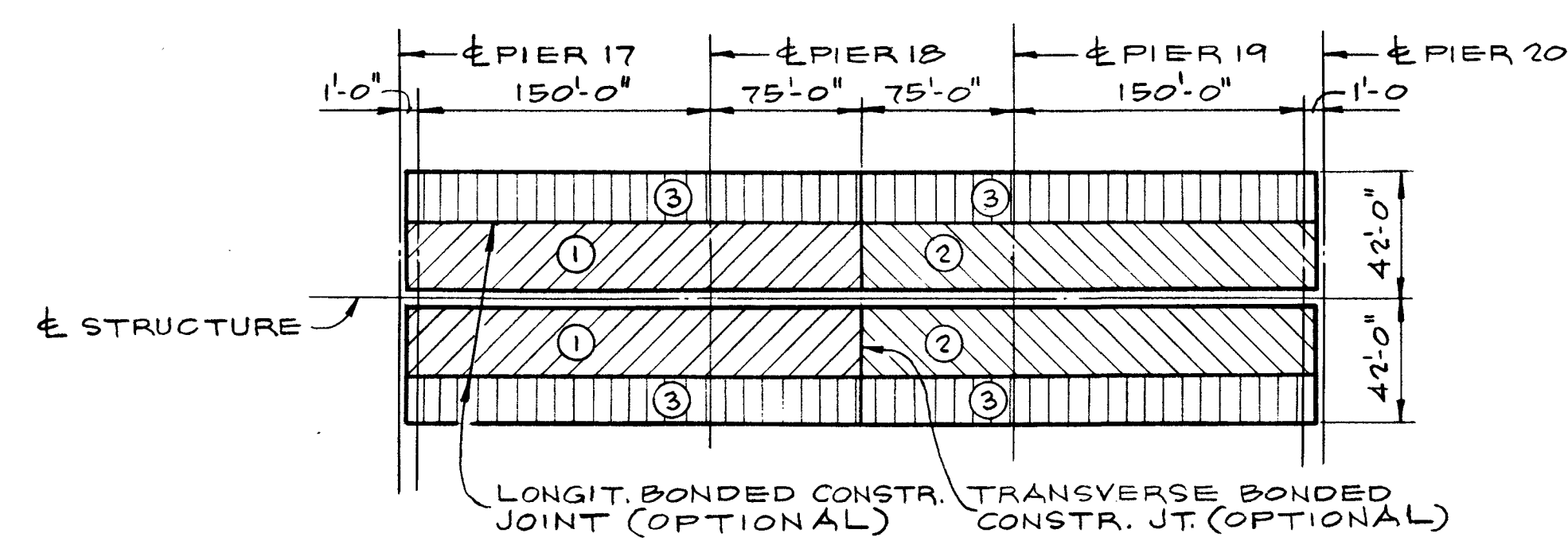
\* - THE PARAPET CONCRETE & REINF. QUANTITIES ARE NOT INCLUDED, SEE SH. NO. 30.

**SUPERSTRUCTURE - UNIT 7**  
**SPANS 19 & 20**  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970



**UNIT 7 KEY PLAN**  
SHADED AREA DETAILED ON THIS DRAWING

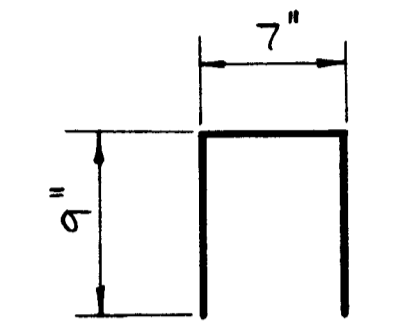
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY G.P. ALLEMAN  
CHECKED BY A. MILUNAS  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN



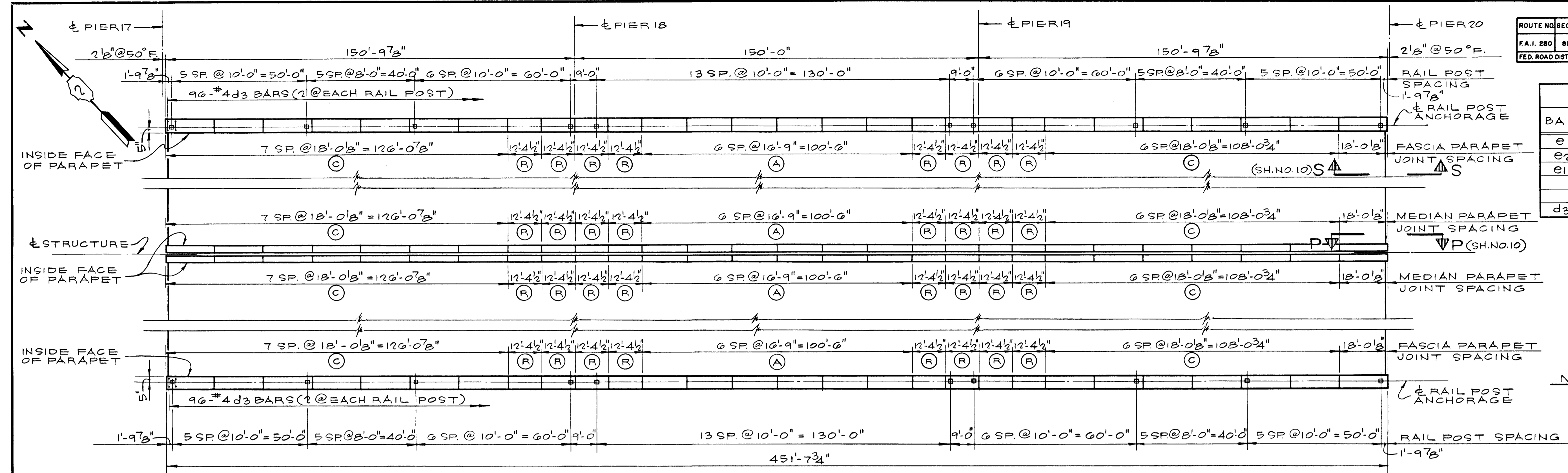
**SUGGESTED POURING SEQUENCE**  
UNIT 7 SPANS 18 THRU 20

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	32
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		

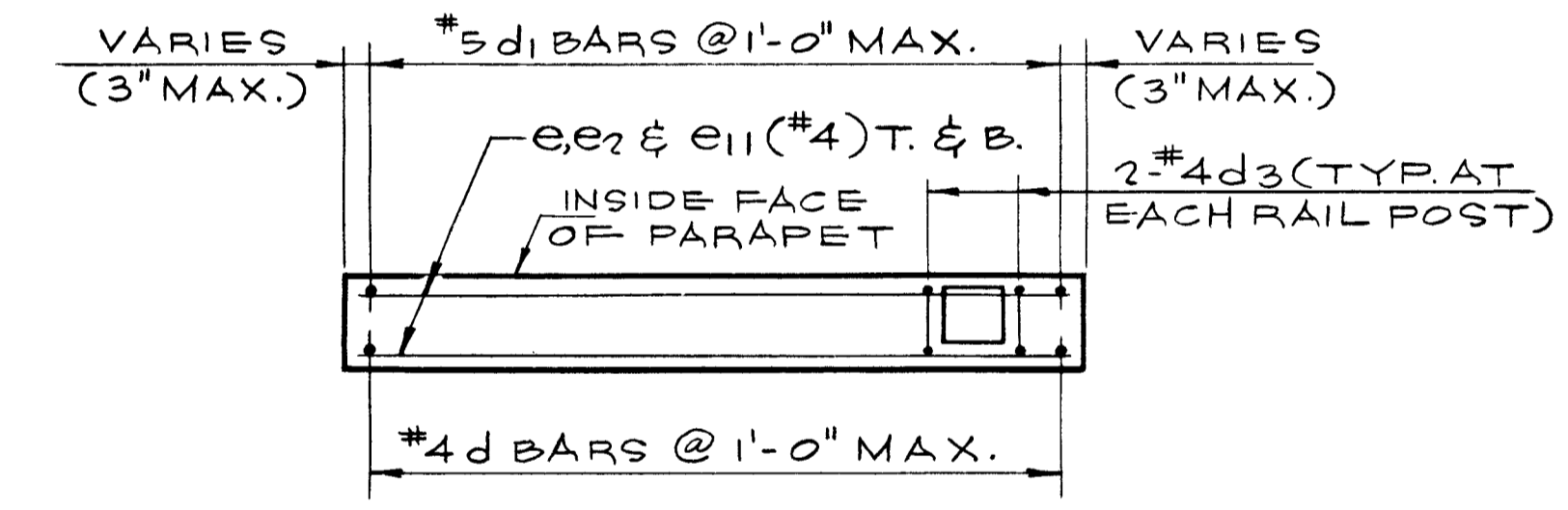
BAR LIST					
BAR	QUANTITY	TOTAL	SIZE	LENGTH	SHAPE
	N.B.	S.B.			
e	36	36	72	4	16'-7"
e2	84	84	168	4	17'-7"
e11	48	48	96	4	12'-0"
				4	
d3	96	96	192	4	2'-1"



NOTE:  
FOR RAILING AND PARAPET JOINT DETAILS SEE SH. NO. 40.

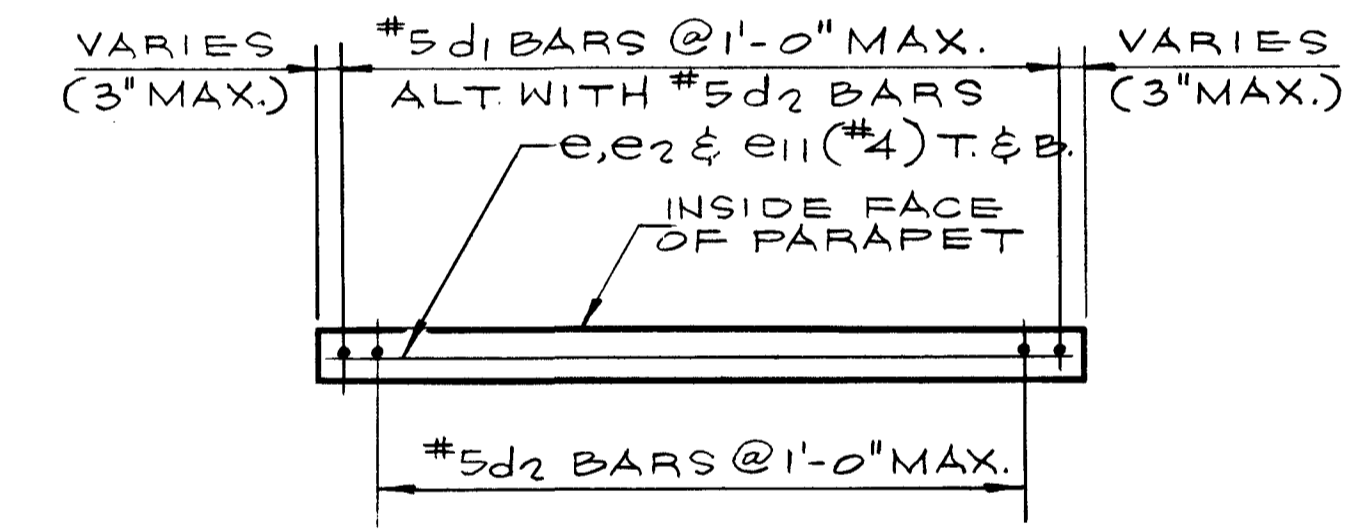


PLAN  
(NOT TO SCALE)



PLAN-TYPICAL FASCIA PARAPET  
PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL	VERTICAL *	HORIZONTAL
N. BOUND	(A)	6	18-#4d	18-#5d1	4-#4e
	(C)	14	19-#4d	19-#5d1	4-#4e2
	(B)	8	13-#4d	13-#5d1	4-#4e11
S. BOUND	(A)	6	18-#4d	18-#5d1	4-#4e
	(C)	14	19-#4d	19-#5d1	4-#4e2
	(B)	8	13-#4d	13-#5d1	4-#4e11



PLAN-TYPICAL MEDIAN PARAPET  
PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL	VERTICAL *	HORIZONTAL
N. BOUND	(A)	6	18-#5d1	17-#5d2	2-#4e
	(C)	14	19-#5d1	18-#5d2	2-#4e2
	(B)	8	13-#5d1	12-#5d2	2-#4e11
S. BOUND	(A)	6	18-#5d1	17-#5d2	2-#4e
	(C)	14	19-#5d1	18-#5d2	2-#4e2
	(B)	8	13-#5d1	12-#5d2	2-#4e11

\*-BARS d, d1 & d2 ARE DETAILED AND BILLED ON SH. NO. 30.

NOTE: WORK THIS SHEET WITH SH'S. NO. 30 & 31.  
FOR EXP. GUARD IN PARAPET DETAILS AND ADJUSTMENT SCHEDULE, SEE SH. NO. 10.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	152.2
REINFORCEMENT BARS	POUND	3,808
ALUMINUM RAILING	LIN. FT.	904

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY G.P. ALLEMAN  
CHECKED A. MILUNAS  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

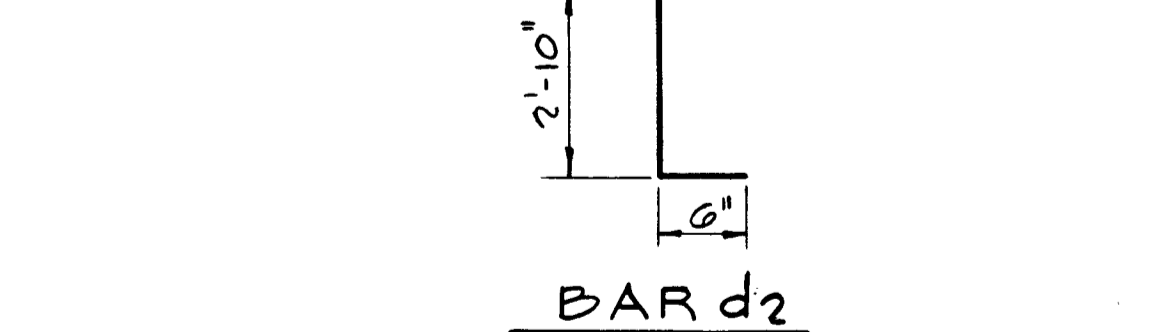
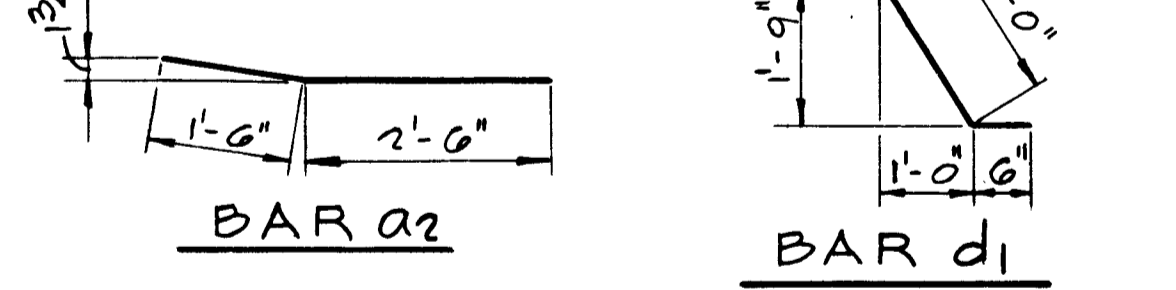
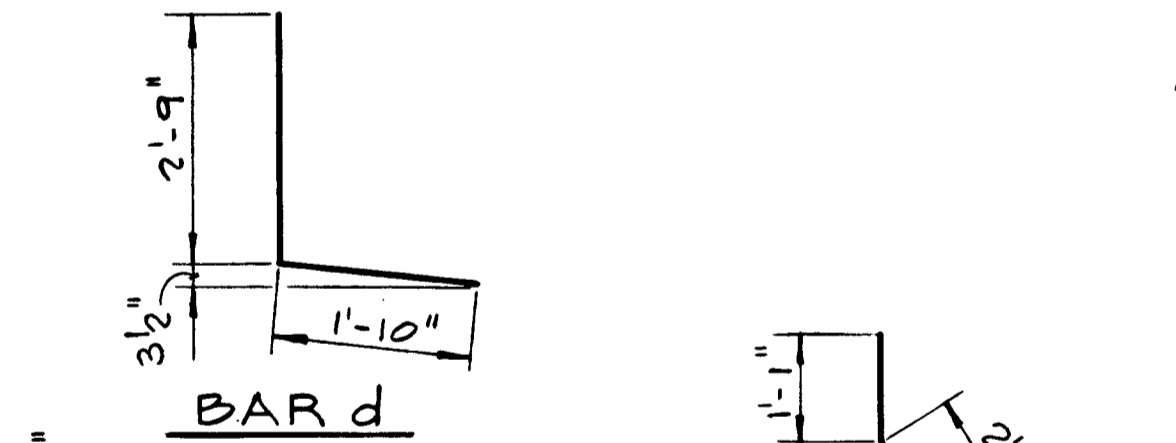
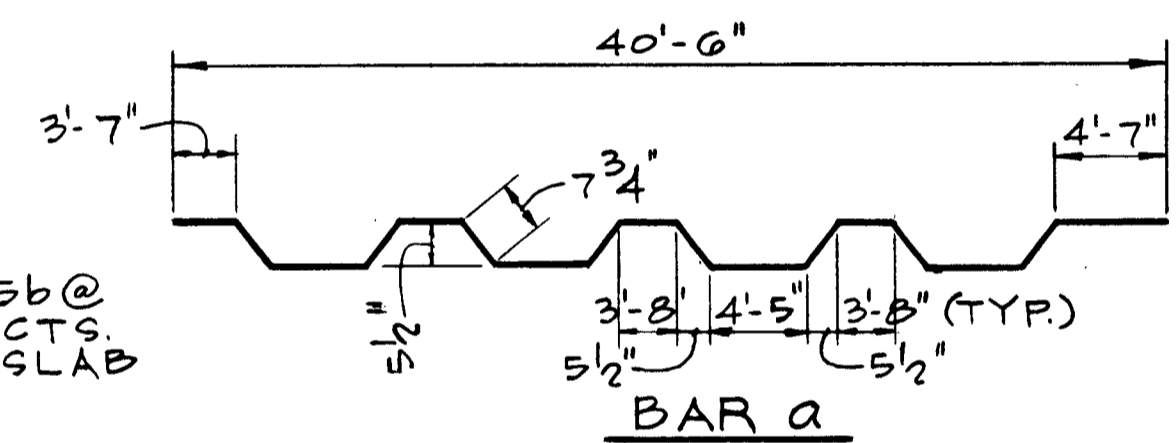
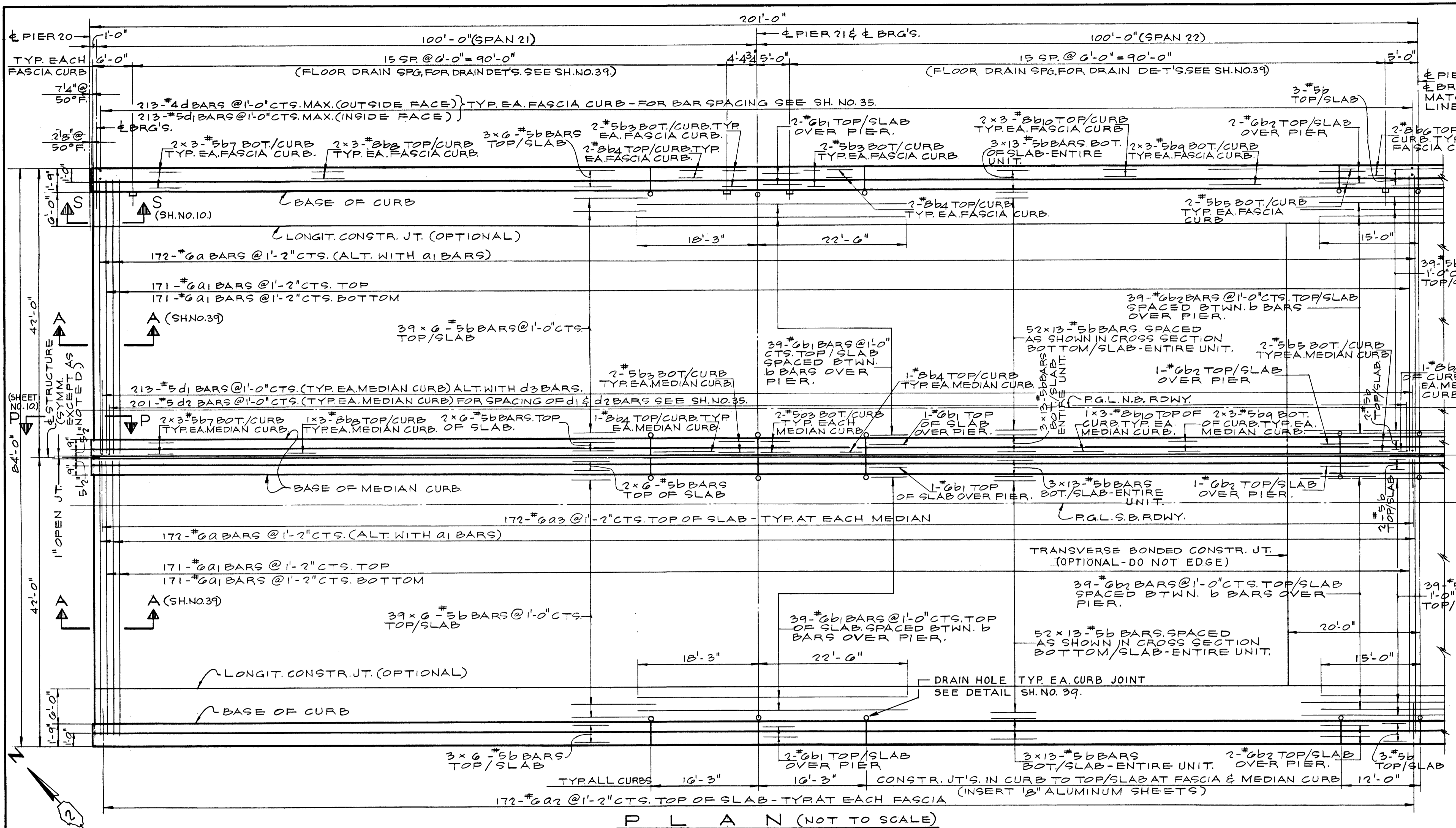
SUPERSTRUCTURE - UNIT 7  
PARAPET & RAILING DETAILS  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970



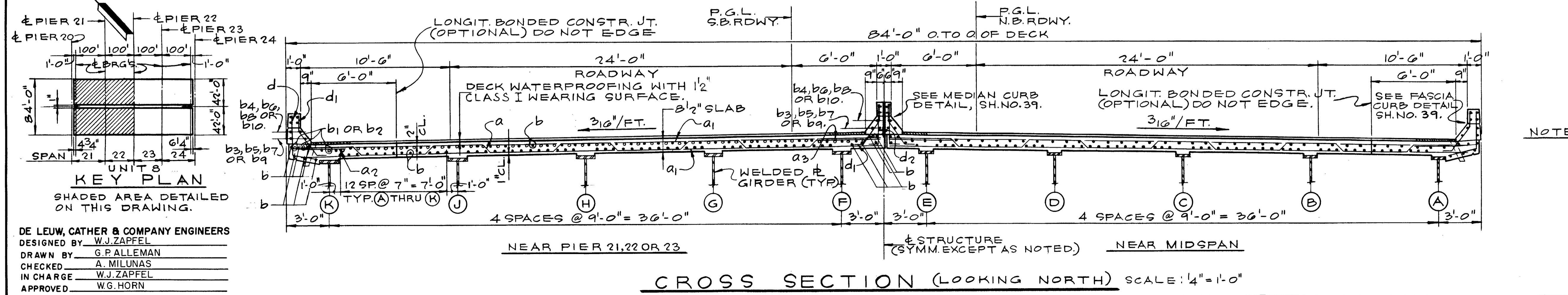
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	33
FED. ROAD DIST. NO.		FED. AID PROJECT	1-280	

BAR LIST							
BAR	QUANTITY	N. B.	S. B.	TOTAL	SIZE	LENGTH	SHAPE
a	343	343	0	686	6	42'-0"	W
a1	684	684	0	1368	6	40'-6"	—
a2	343	343	0	686	6	4'-0"	—
a3	343	343	0	686	6	4'-3"	—
b	1326	1326	0	2652	5	32'-0"	—
b1	84	84	0	168	6	40'-9"	—
b2	42	42	0	84	6	30'-0"	—
b3	16	16	0	32	5	16'-0"	—
b4	12	12	0	24	8	16'-0"	—
b5	8	8	0	16	5	11'-9"	—
b6	6	6	0	12	8	11'-9"	—
b7	24	24	0	48	5	29'-6"	—
b8	18	18	0	36	8	29'-6"	—
b9	24	24	0	48	5	24'-8"	—
b10	18	18	0	36	8	25'-2"	—
d	426	426	0	852	4	4'-7"	—
d1	852	852	0	1704	5	3'-7"	—
d2	402	402	0	804	5	3'-4"	—

NOTES:  
 BARS INDICATED THUS 52 x 13 #5 ETC. INDICATES 52 LINES OF BARS WITH 13 LENGTHS PER LINE.  
 MIN. BAR LAP = 24 DIA.  
 ALL BAR DIMENSIONS ARE OUT TO OUT.



NOTE: WORK THIS SHEET WITH SH'S NO. 34 & 35. FOR SUGGESTED POURING SEQUENCE SEE SH. NO. 34.



DE LEUW, CATHAR & COMPANY ENGINEERS  
 DESIGNED BY: W.J. ZAPFEL  
 DRAWN BY: G.P. ALLEMAN  
 CHECKED: A. MILUNAS  
 IN CHARGE: W.J. ZAPFEL  
 APPROVED: W.G. HORN

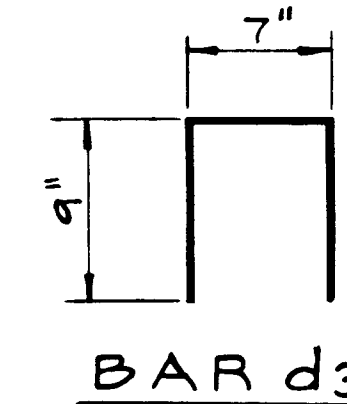
**SUPERSTRUCTURE - UNIT 8**  
**SPANS 21 & 22**  
 F.A.I. ROUTE 280 SECTION 81-ID  
 1-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11+11.38 TO STA. 53+04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970



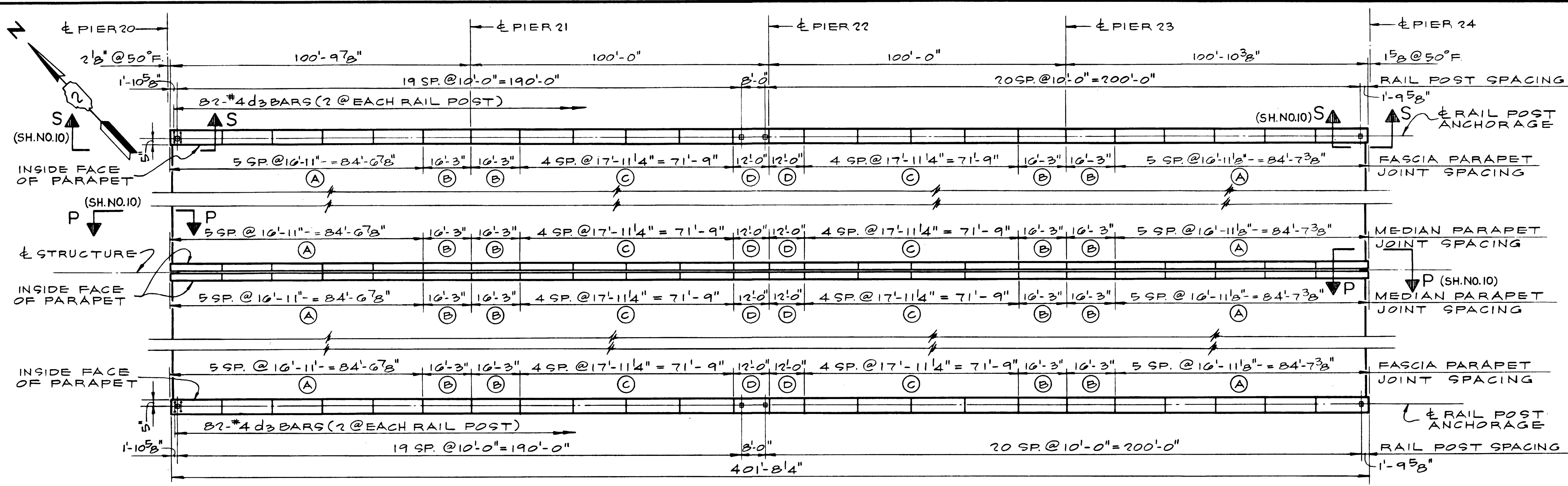


ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-10	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	35
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		

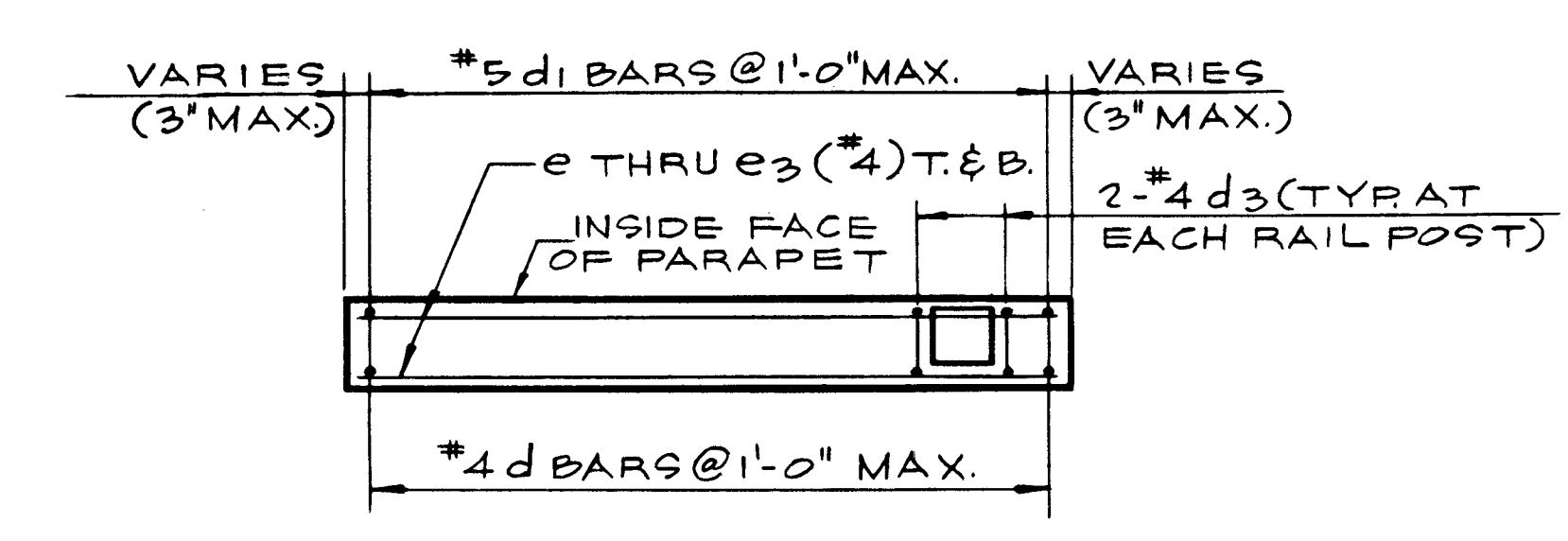
BAR LIST					
BAR	QUANTITY	TOTAL	SIZE	LENGTH	SHAPE
	N.B.	S.B.			
e	60	60	120	4	10'-7"
e1	24	24	48	4	10'-0"
e2	48	48	96	4	17'-7"
e3	12	12	24	4	11'-8"
d3	82	82	104	4	2'-1"



NOTE:  
FOR RAILING AND PARAPET JOINT DETAILS SEE SH. NO. 40.  
WORK THIS SHEET WITH SH'S. NO. 33 OR 34.  
FOR EXPANSION GUARD IN PARAPET DETAILS & ADJUSTMENT SCHEDULE SEE SH. NO. 10.

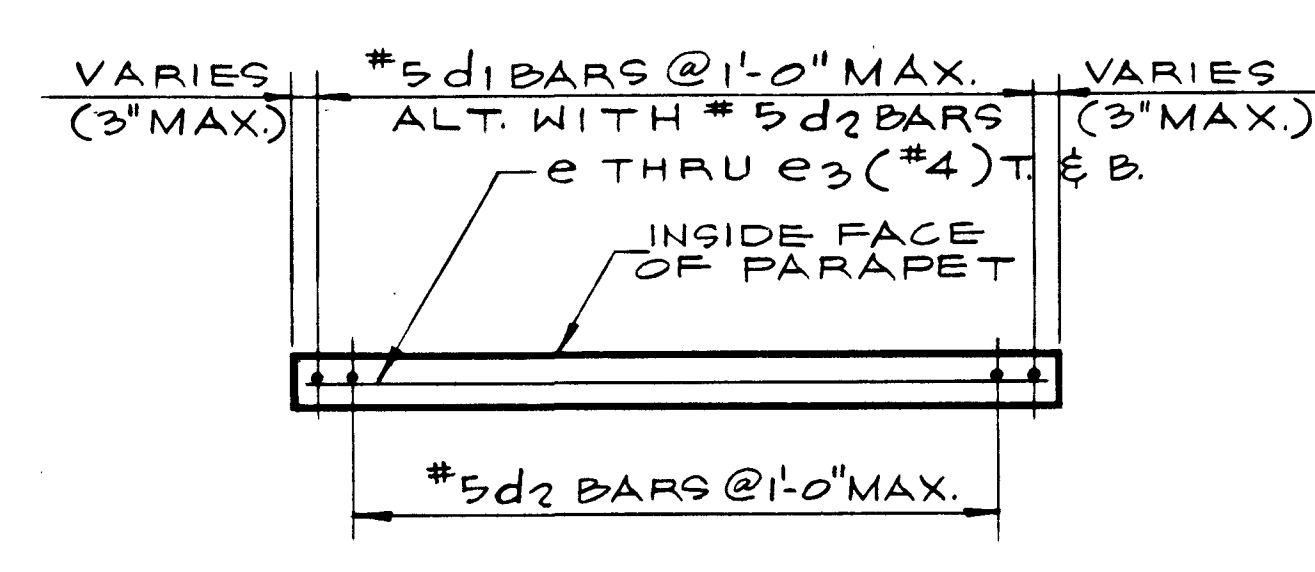


PLAN  
(NOT TO SCALE)



PLAN-TYPICAL FASCIA PARAPET PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL
			VERTICAL * HORIZONTAL
N. BOUND	(A)	10	18-*4d 18-*5d1 4-*4e
	(B)	4	17-*4d 17-*5d1 4-*4e1
	(C)	8	19-*4d 19-*5d1 4-*4e2
	(D)	2	13-*4d 13-*5d1 4-*4e3
S. BOUND	(A)	10	18-*4d 18-*5d1 4-*4e
	(B)	4	17-*4d 17-*5d1 4-*4e1
	(C)	8	19-*4d 19-*5d1 4-*4e2
	(D)	2	13-*4d 13-*5d1 4-*4e3



PLAN-TYPICAL MEDIAN PARAPET PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL
			VERTICAL * HORIZONTAL
N. BOUND	(A)	10	18-*5d1 17-*5d2 2-*4e
	(B)	4	17-*5d1 16-*5d2 2-*4e1
	(C)	8	19-*5d1 18-*5d2 2-*4e2
	(D)	2	13-*5d1 12-*5d2 2-*4e3
S. BOUND	(A)	10	18-*5d1 17-*5d2 2-*4e
	(B)	4	17-*5d1 16-*5d2 2-*4e1
	(C)	8	19-*5d1 18-*5d2 2-*4e2
	(D)	2	13-*5d1 12-*5d2 2-*4e3

\* - BARS d, d1 & d2 ARE DETAILED AND BILLED ON SH. NO. 33.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	135.3
REINFORCEMENT BARS	POUND	3385
ALUMINUM RAILING	LIN. FT.	804

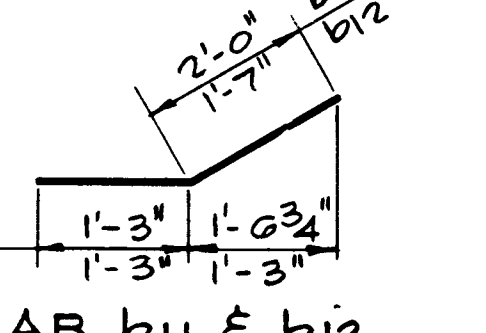
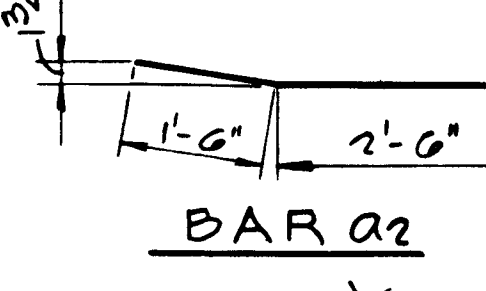
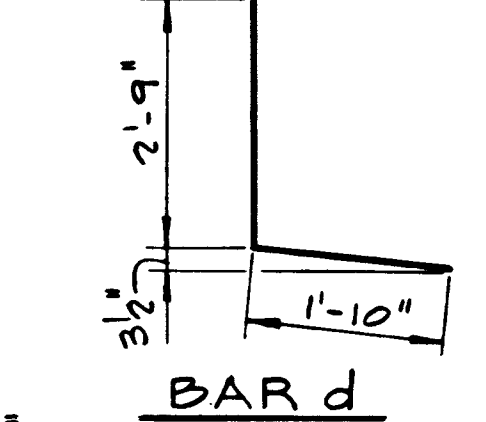
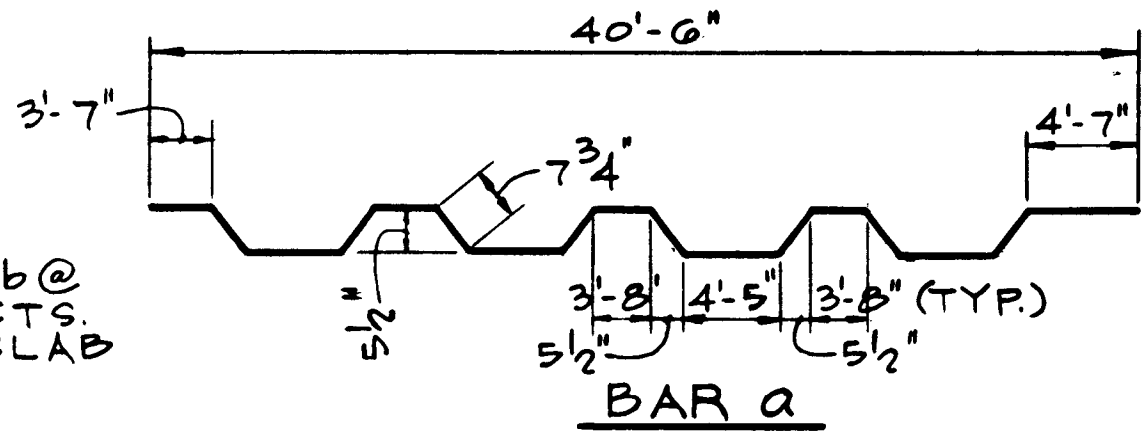
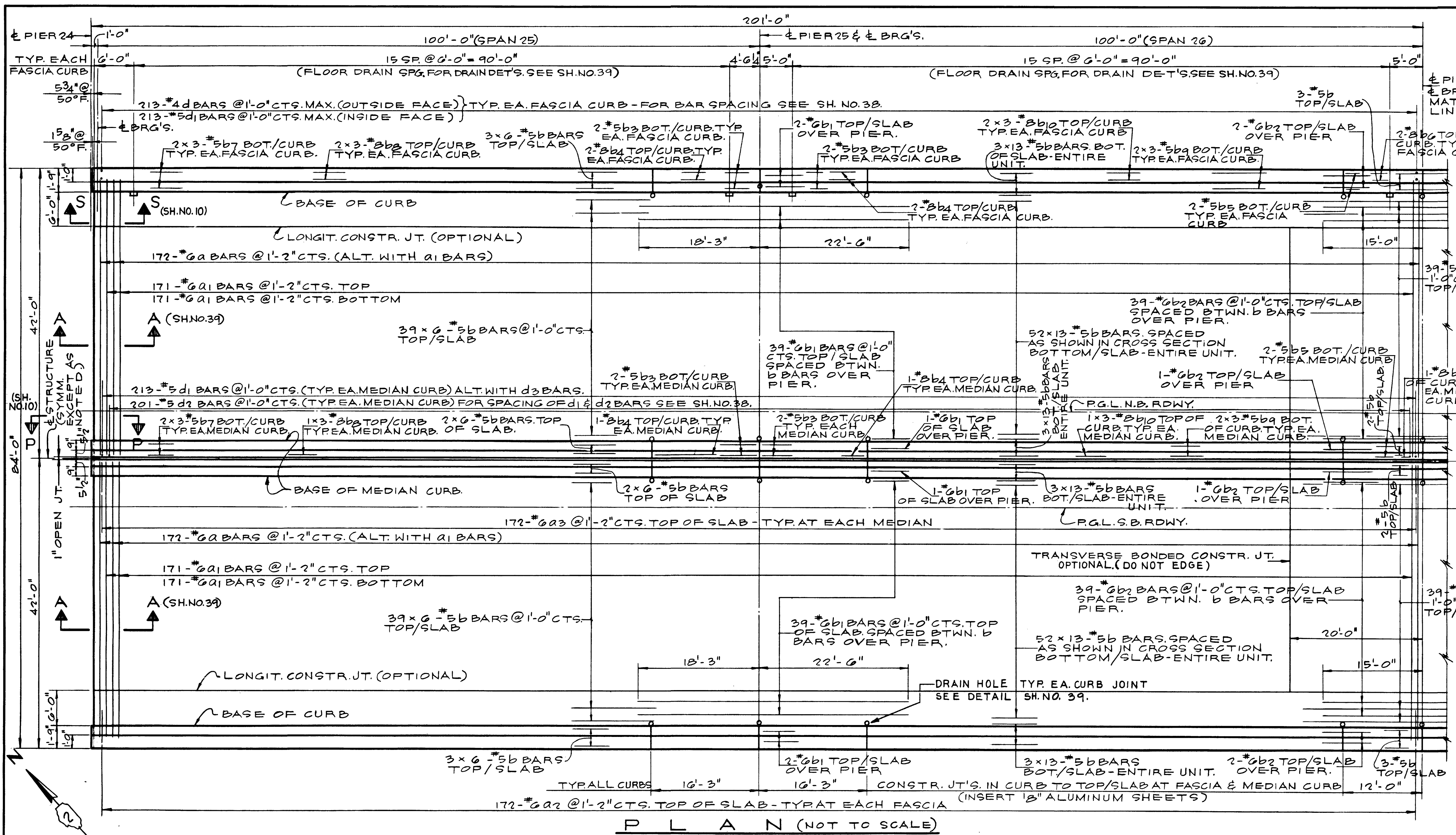
SUPERSTRUCTURE - UNIT 8  
PARAPET & RAILING DETAILS  
F.A.I. ROUTE 280 SECTION 81-10  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY G.P. ALLEMAN  
CHECKED BY A. MILUNAS  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

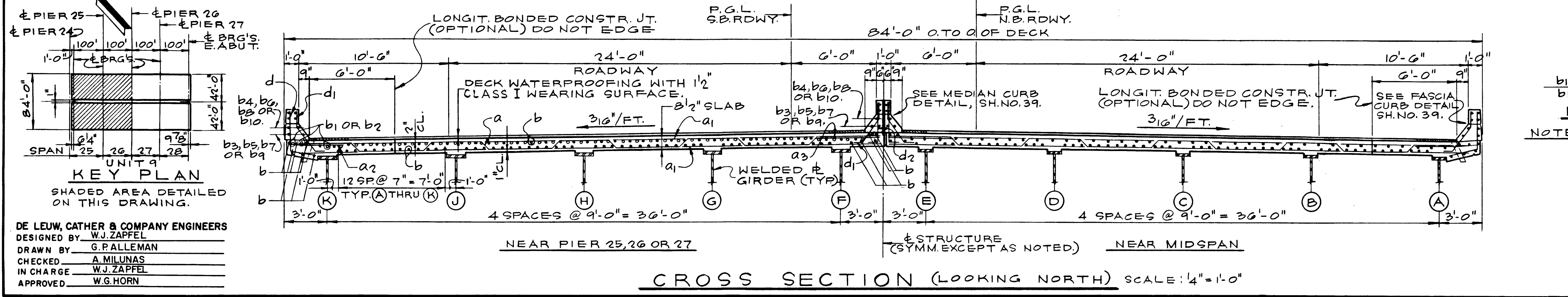
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	36
FED. ROAD DIST. NO.		FED. AID PROJECT 1-280		

BAR	QUANTITY	N. B.	S. B.	TOTAL	SIZE	LENGTH	SHAPE
a	343	343		686	6	42'-0"	W
a1	684	684		1368	6	40'-0"	—
a2	343	343		686	6	4'-0"	—
a3	343	343		686	6	4'-3"	—
b	1376	1376		2752	5	32'-0"	—
b1	84	84		168	6	40'-9"	—
b2	42	42		84	6	30'-0"	—
b3	16	16		32	5	18'-0"	—
b4	12	12		24	8	15'-0"	—
b5	8	8		16	5	11'-9"	—
b6	6	6		12	8	11'-9"	—
b7	24	24		48	5	29'-0"	—
b8	18	18		36	8	29'-6"	—
b9	24	24		48	5	24'-8"	—
b10	18	18		36	8	25'-2"	—
b11	1	1		2	5	3'-3"	—
b12	1	1		2	5	2'-10"	—
d	476	476		952	4	4'-7"	—
d1	846	846		1692	5	3'-7"	—
d2	405	405		810	5	3'-4"	—

NOTES:  
 BARS INDICATED THUS 52 x 13-5 ETC. INDICATES 52 LINES OF BARS WITH 13 LENGTHS PER LINE. MIN. BAR LAP = 24 DIA. ALL BAR DIMENSIONS ARE OUT TO OUT.



NOTE: WORK THIS SHEET WITH SH'S NO. 37 & 38. FOR SUGGESTED POURING SEQUENCE SEE SH. NO. 37.



DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W.J. ZAPFEL  
 DRAWN BY G.P. ALLEMAN  
 CHECKED A. MILUNAS  
 IN CHARGE W.J. ZAPFEL  
 APPROVED W.G. HORN

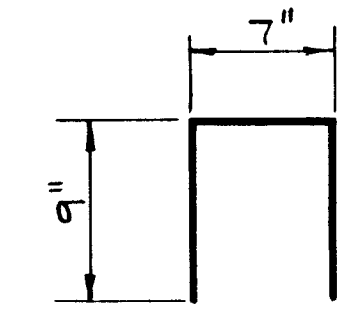
**SUPERSTRUCTURE - UNIT 9**  
**SPANS 25 AND 26**  
 F.A. I. ROUTE 280 SECTION 81-1D  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11+11.38 TO STA. 53+04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970



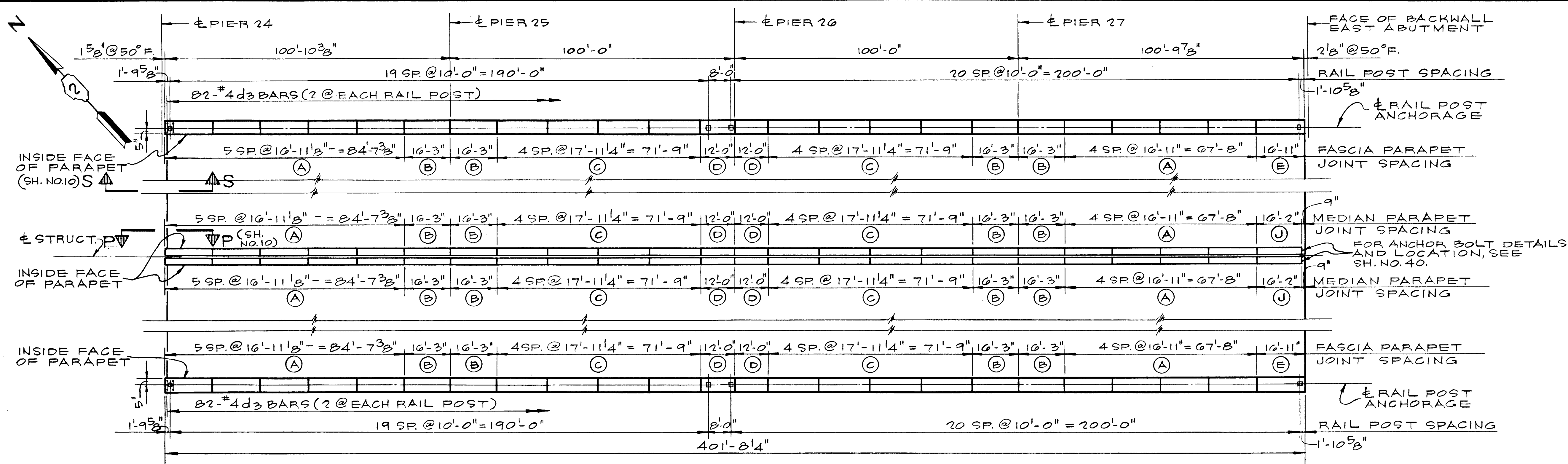


ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	38
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		

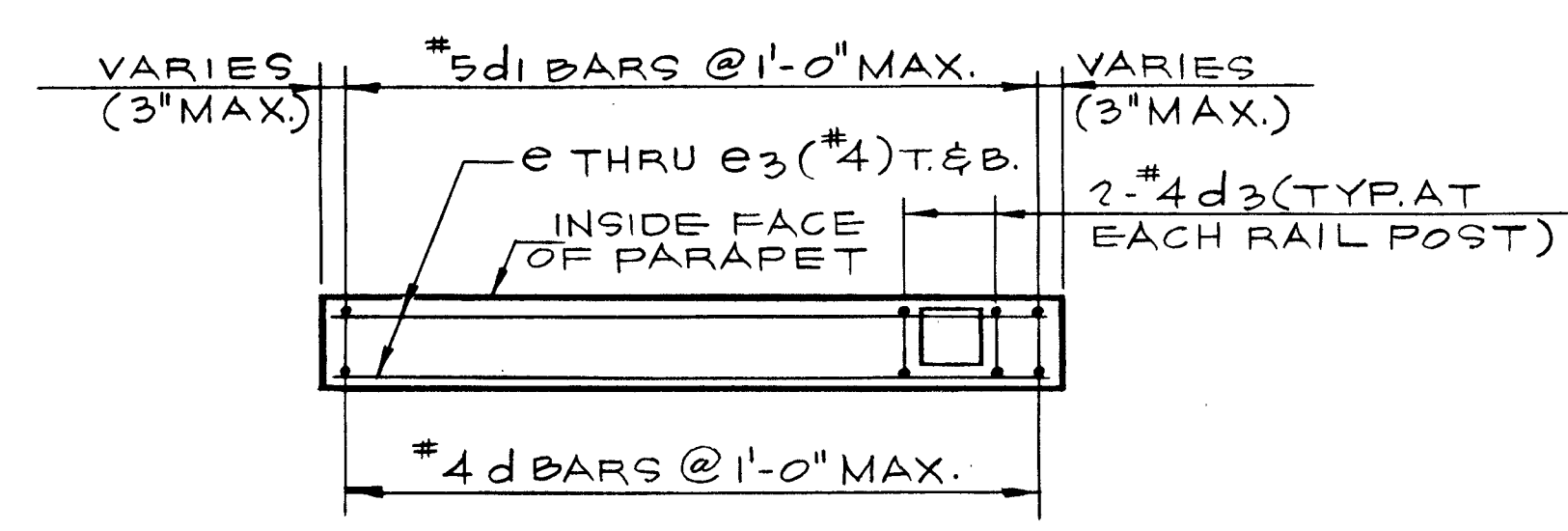
BAR LIST					
BAR	QUANTITY	TOTAL	SIZE	LENGTH	SHAPE
e	58	110	4	16'-7"	—
e1	24	48	4	16'-0"	—
e2	48	96	4	17'-7"	—
e3	12	24	4	11'-8"	—
e5	2	4	4	15'-10"	—
d3	82	164	4	2'-1"	□



NOTE: 1  
FOR RAILING AND PARAPET JOINT DETAILS SEE SH. NO. 40.  
FOR EXPANSION GUARD IN PARAPET AT PIER 24 DETAILS AND ADJUSTMENT SCHEDULE SEE SH. NO. 10.

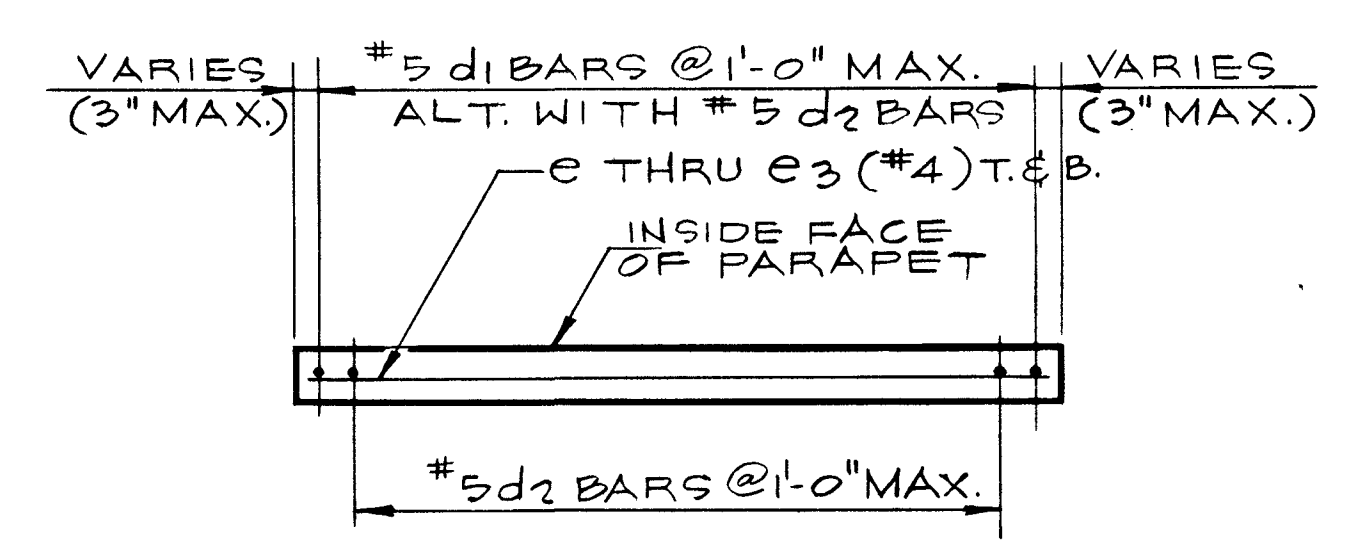


PLAN  
(NOT TO SCALE)



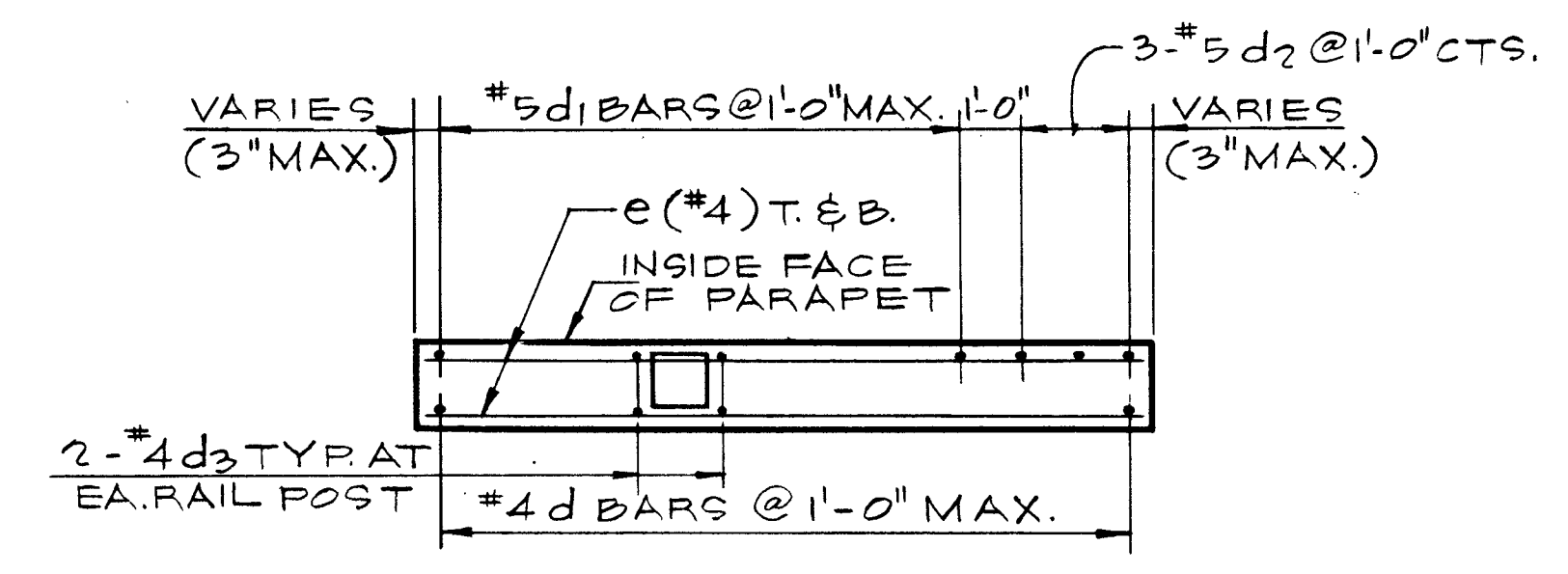
PLAN-TYPICAL FASCIA PARAPET PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL
			VERTICAL * HORIZONTAL
N. BOUND	(A)	9	18-#4d 18-#5d1 4-#4e
	(B)	4	17-#4d 17-#5d1 4-#4e1
	(C)	8	19-#4d 19-#5d1 4-#4e2
	(D)	2	13-#4d 13-#5d1 4-#4e3
S. BOUND	(A)	9	18-#4d 18-#5d1 4-#4e
	(B)	4	17-#4d 17-#5d1 4-#4e1
	(C)	8	19-#4d 19-#5d1 4-#4e2
	(D)	2	13-#4d 13-#5d1 4-#4e3



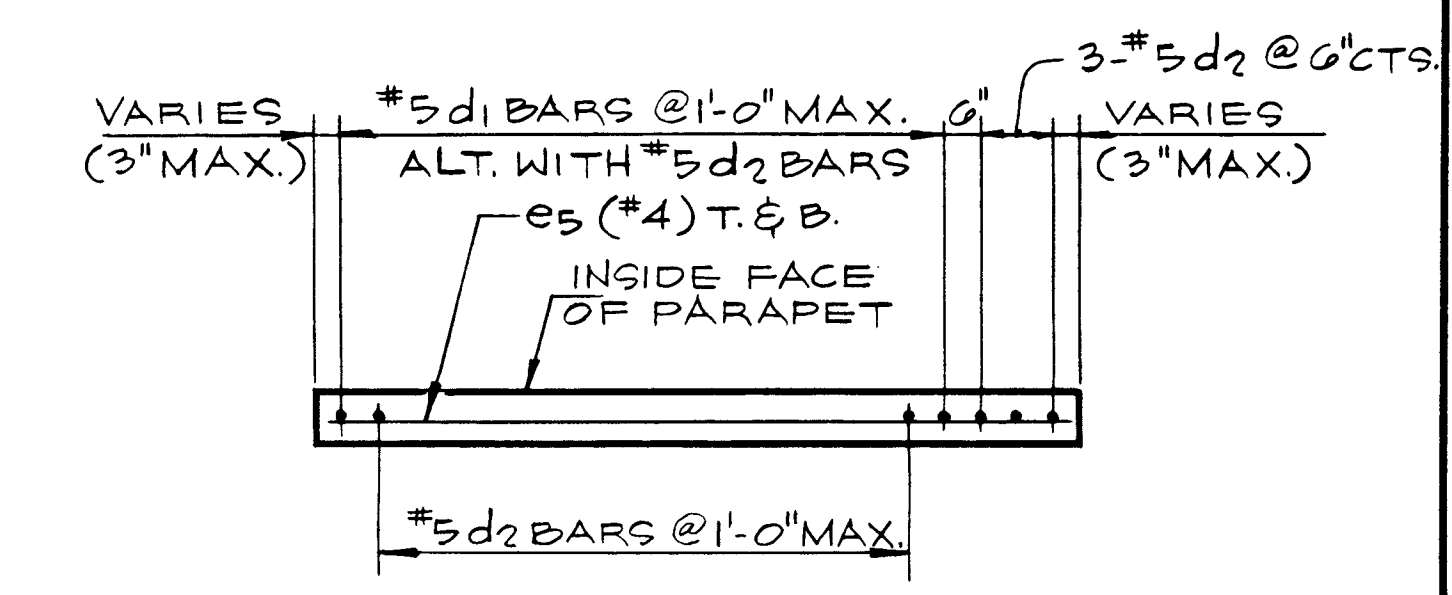
PLAN-TYPICAL MEDIAN PARAPET PANEL REINFORCEMENT  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL
			VERTICAL * HORIZONTAL
N. BOUND	(A)	9	18-#5d1 17-#5d2 2-#4e
	(B)	4	17-#5d1 16-#5d2 2-#4e1
	(C)	8	19-#5d1 18-#5d2 2-#4e2
	(D)	2	13-#5d1 12-#5d2 2-#4e3
S. BOUND	(A)	9	18-#5d1 17-#5d2 2-#4e
	(B)	4	17-#5d1 16-#5d2 2-#4e1
	(C)	8	19-#5d1 18-#5d2 2-#4e2
	(D)	2	13-#5d1 12-#5d2 2-#4e3



PLAN - FASCIA PARAPET PANEL REINFORCEMENT - E. END  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL
			VERTICAL * HORIZONTAL
N. BOUND	(E)	1	18-#4d 15-#5d1 3-#5d2 4-#4e
S. BOUND	(E)	1	18-#4d 15-#5d1 3-#5d2 4-#4e



PLAN - MEDIAN PARAPET PANEL REINFORCEMENT - E. END  
(SEE TABLE BELOW)

LOCATION	PANEL	NO. OF PANELS	NO. OF BARS EACH PANEL
			VERTICAL * HORIZONTAL
N. BOUND	(J)	1	15-#5d1 17-#5d2 2-#4e5
S. BOUND	(J)	1	15-#5d1 17-#5d2 2-#4e5

\* - BARS d, d1 & d2 ARE DETAILED AND BILLED ON SH. NO. 37.

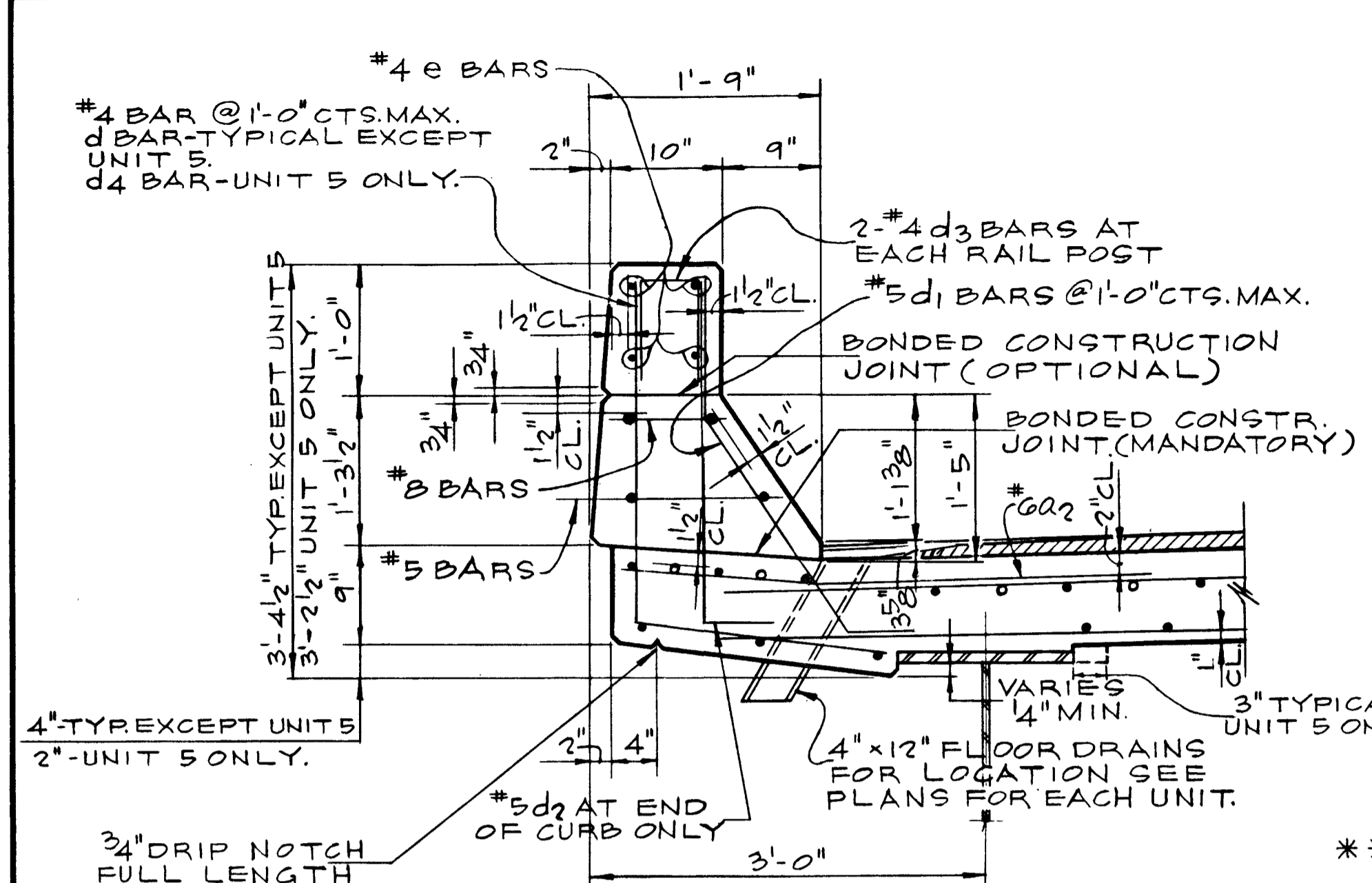
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YD.	135.2
REINFORCEMENT BARS	POUND	3341
ALUMINUM RAILING	LIN. FT.	804

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY G.P. ALLEMAN  
CHECKED BY A. MILUNAS  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

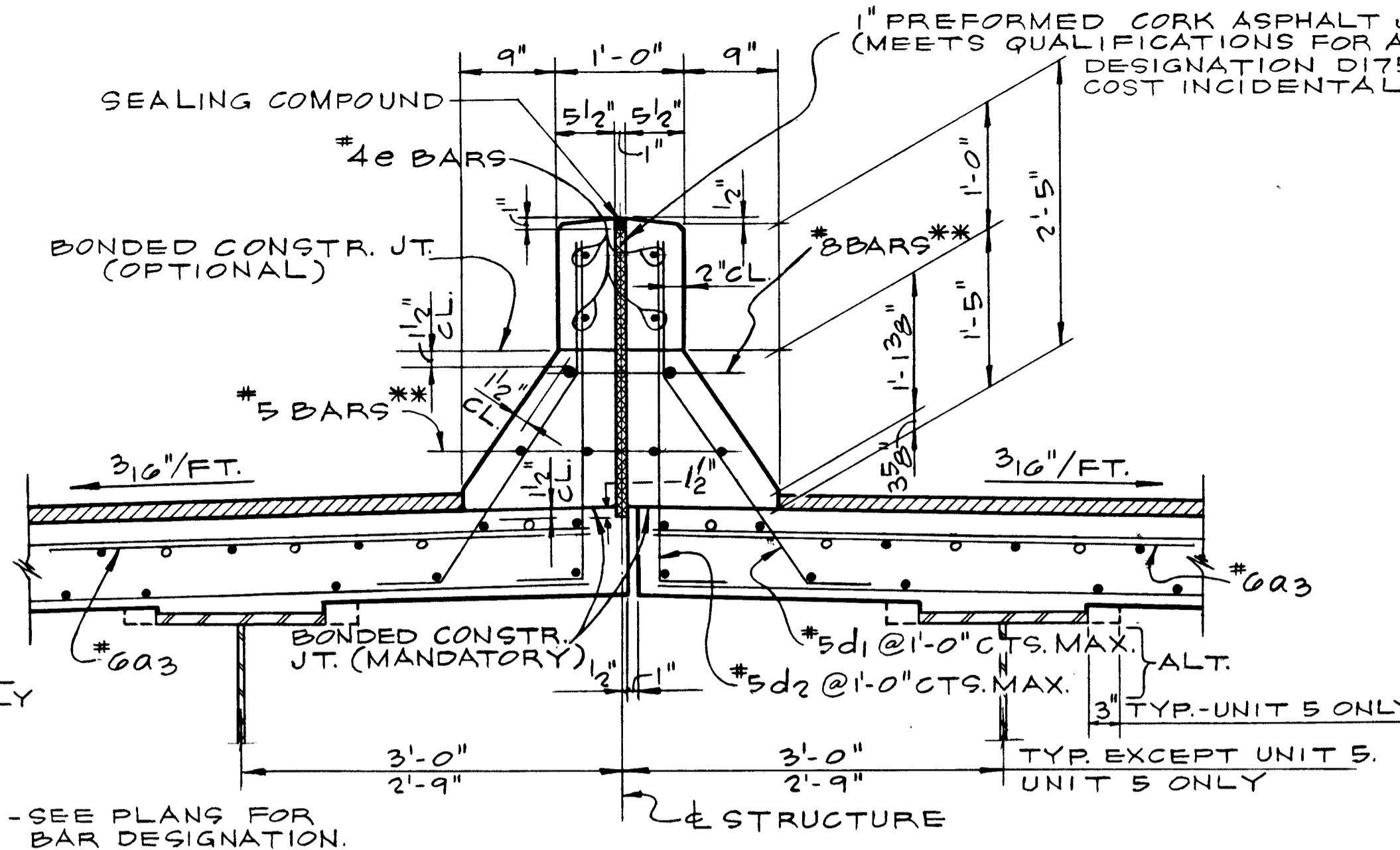
SUPERSTRUCTURE - UNIT 9  
PARAPET & RAILING DETAILS  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970



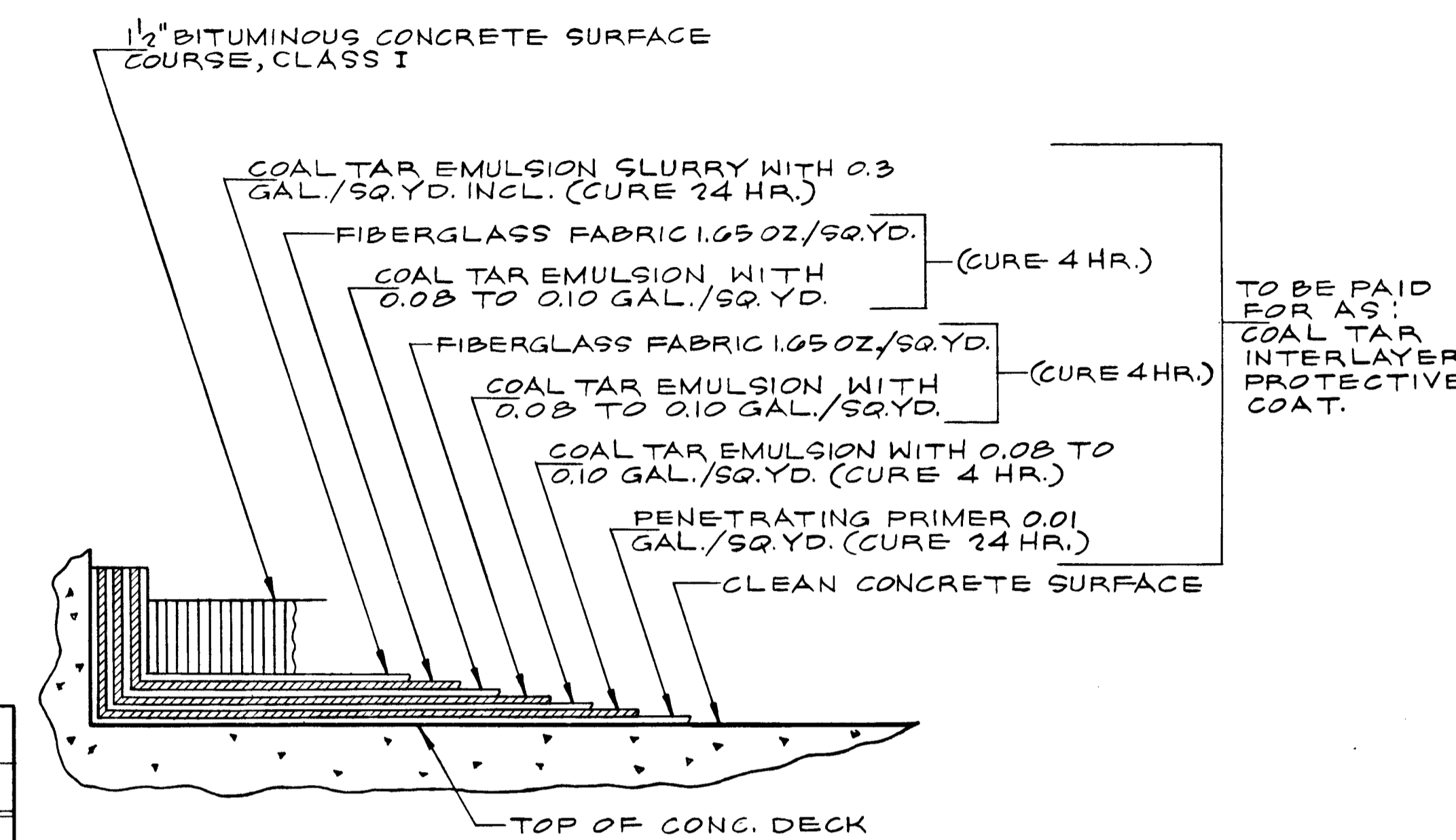
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-10	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	39
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			



**FASCIA CURB DETAIL**  
SCALE: 1" = 1'-0"



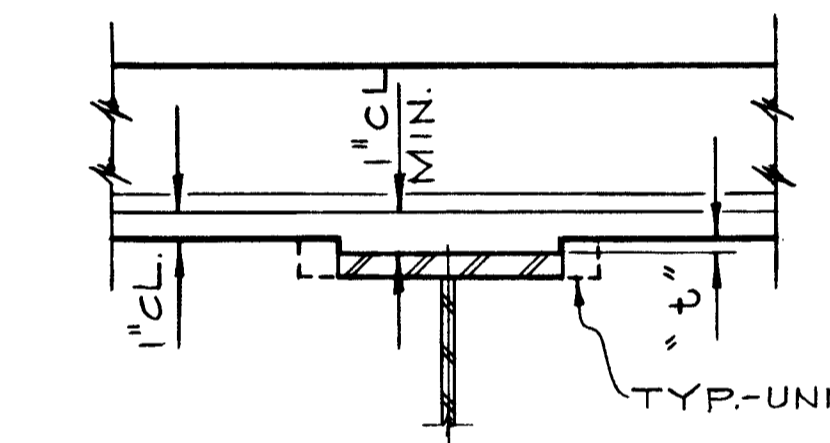
**MEDIAN CURB DETAIL**  
SCALE: 1" = 1'-0"



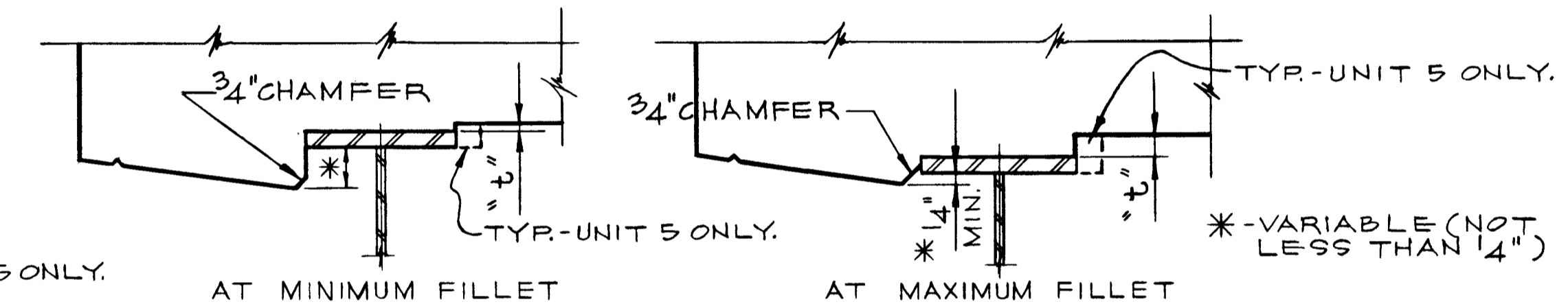
**DECK WATERPROOFING**

**TABLE "Y"**

PIER NO.	DIMENSION "X"
3, 10 & 24	5 3/4"
7, 17 & 20	7 1/4"



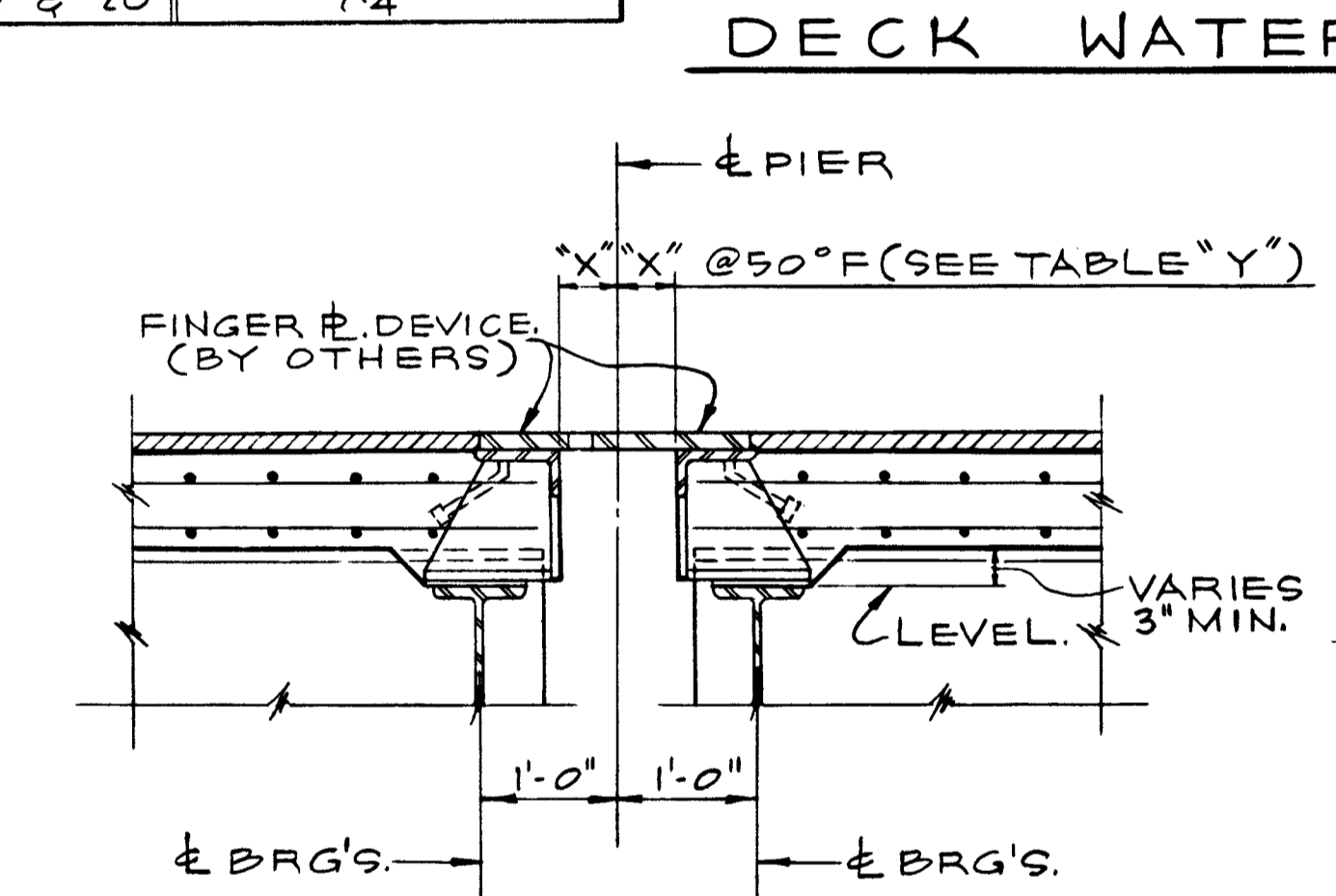
**INTERIOR GIRDERS**



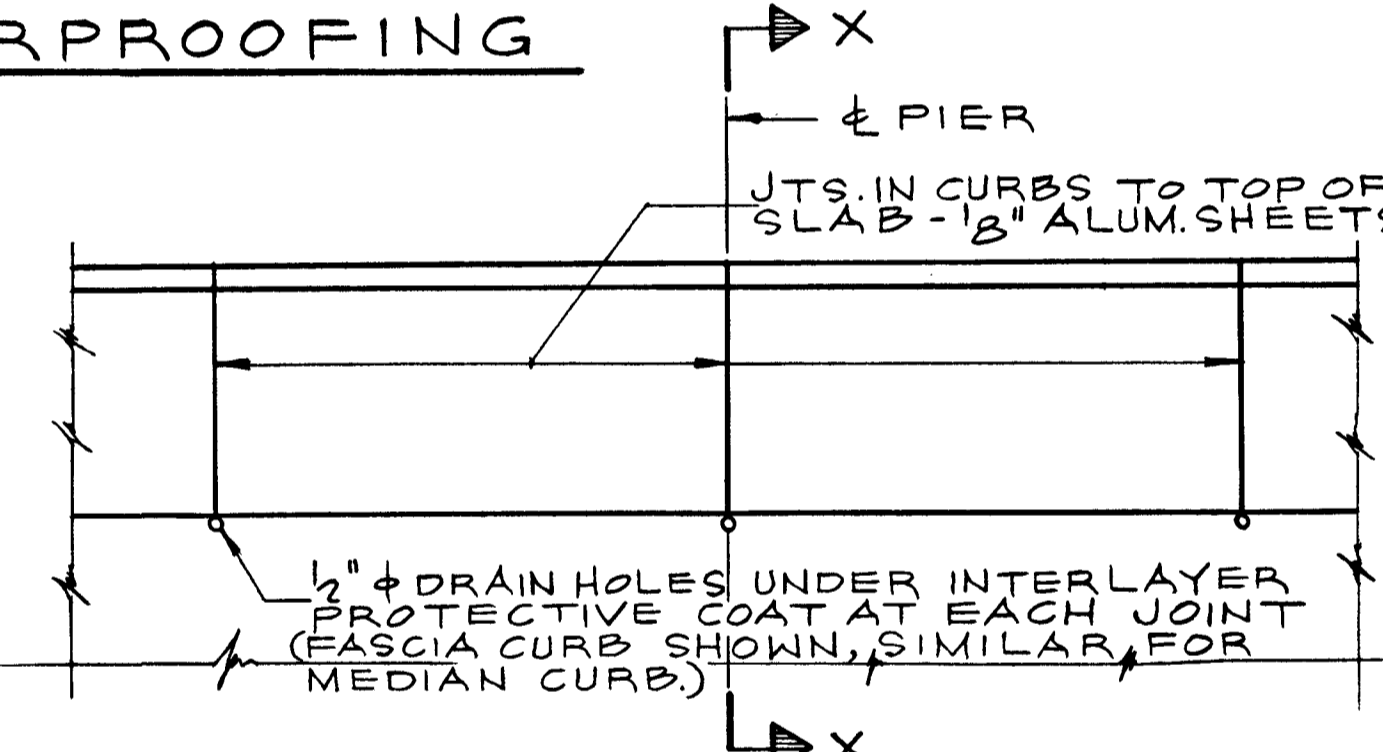
**EXTERIOR GIRDERS**

AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES OF THE GIRDERS SHALL BE TAKEN AT THE POINTS SHOWN ON SHEETS NO. 41 THROUGH NO. 50. THESE ELEVATIONS SUBTRACTED FROM THE TABULATED THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS MINUS SLAB THICKNESS EQUAL THE FILLET HEIGHTS ABOVE THE TOP FLANGES OF GIRDERS. TABULATED THEORETICAL GRADE ELEVATIONS ARE TOP OF CONCRETE ELEVATIONS AND DO NOT INCLUDE BITUMINOUS SURFACE COURSE.

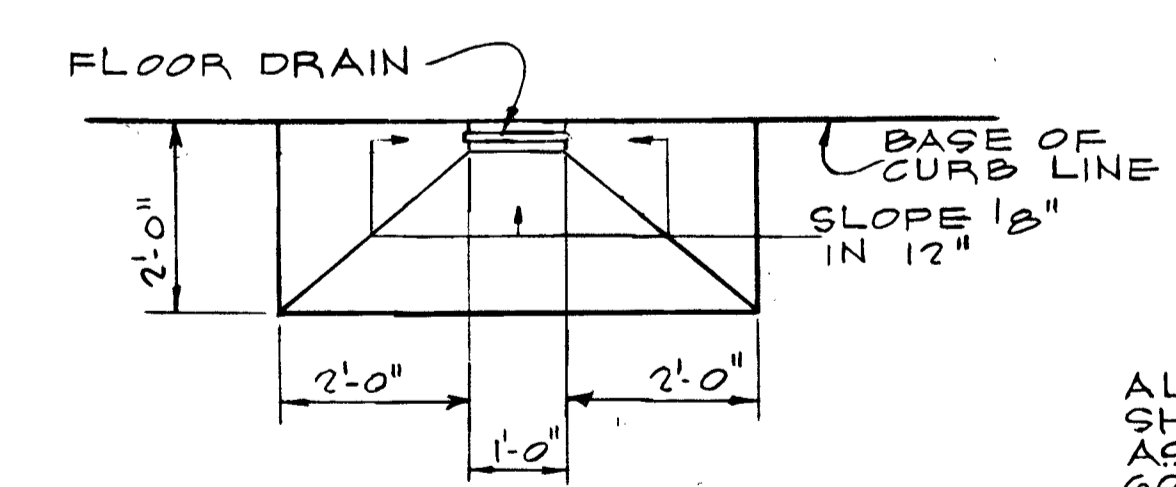
**METHOD OF DETERMINING FILLET HEIGHT "t"**



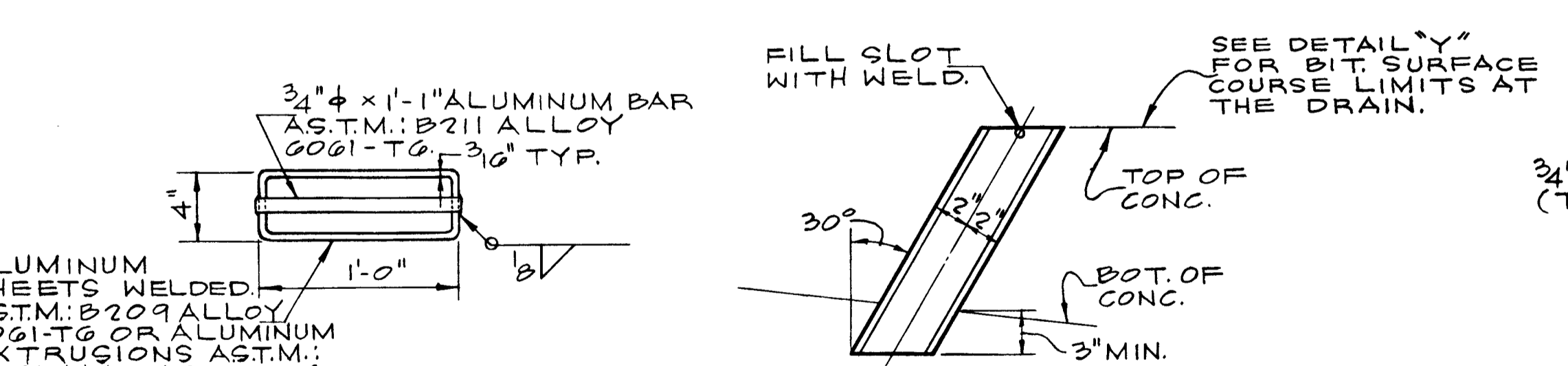
**SECTION A-A**  
SCALE: 3/4" = 1'-0"



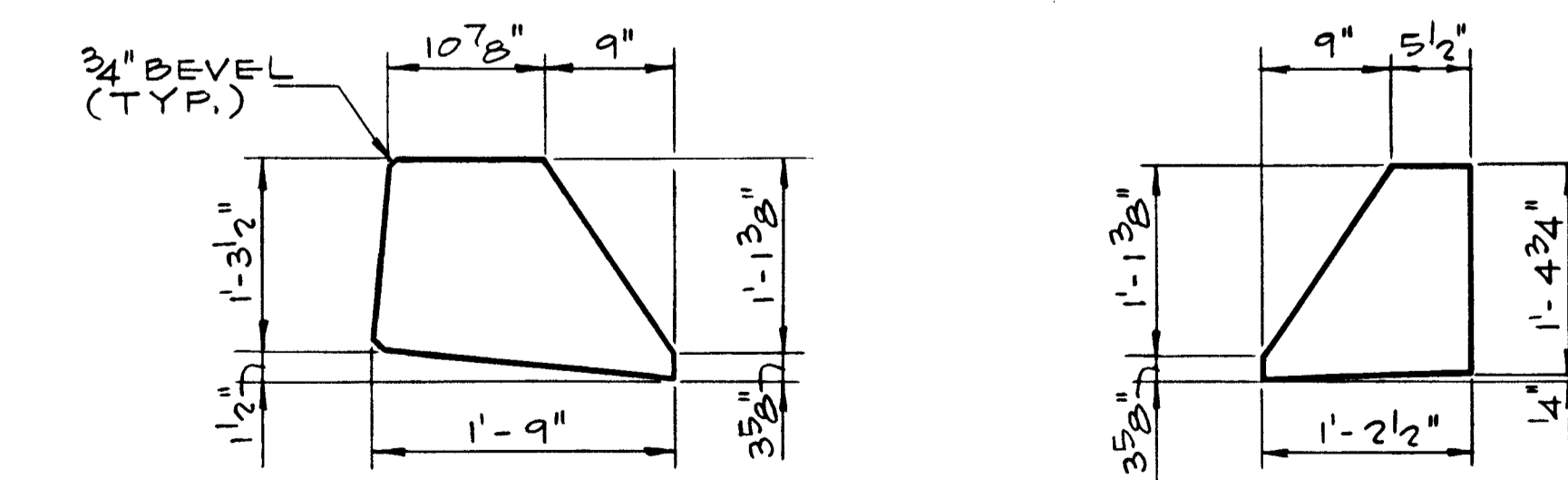
**PLAN (SCALE: 3/4" = 1'-0")**



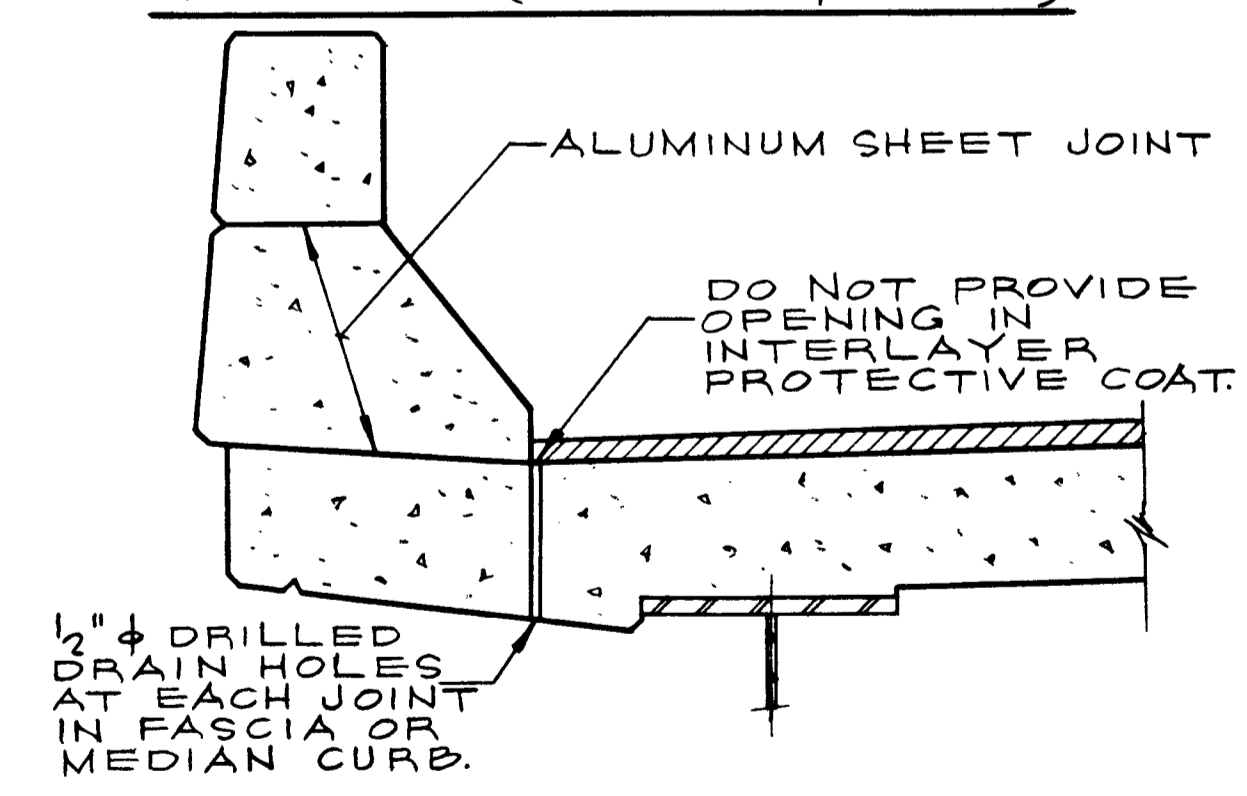
**DETAIL "Y"**



**FLOOR DRAIN DETAILS**



**DETAIL OF 1/8" ALUMINUM SHEET**  
(A.S.T.M. B209 ALLOY 3003-H14)



**SECTION X-X (SCALE: 1" = 1'-0")**  
**DETAIL OF SUPERSTRUCTURE**

**TYPICAL DETAILS**

F.A.I. ROUTE 280 SECTION 81-10  
1-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.

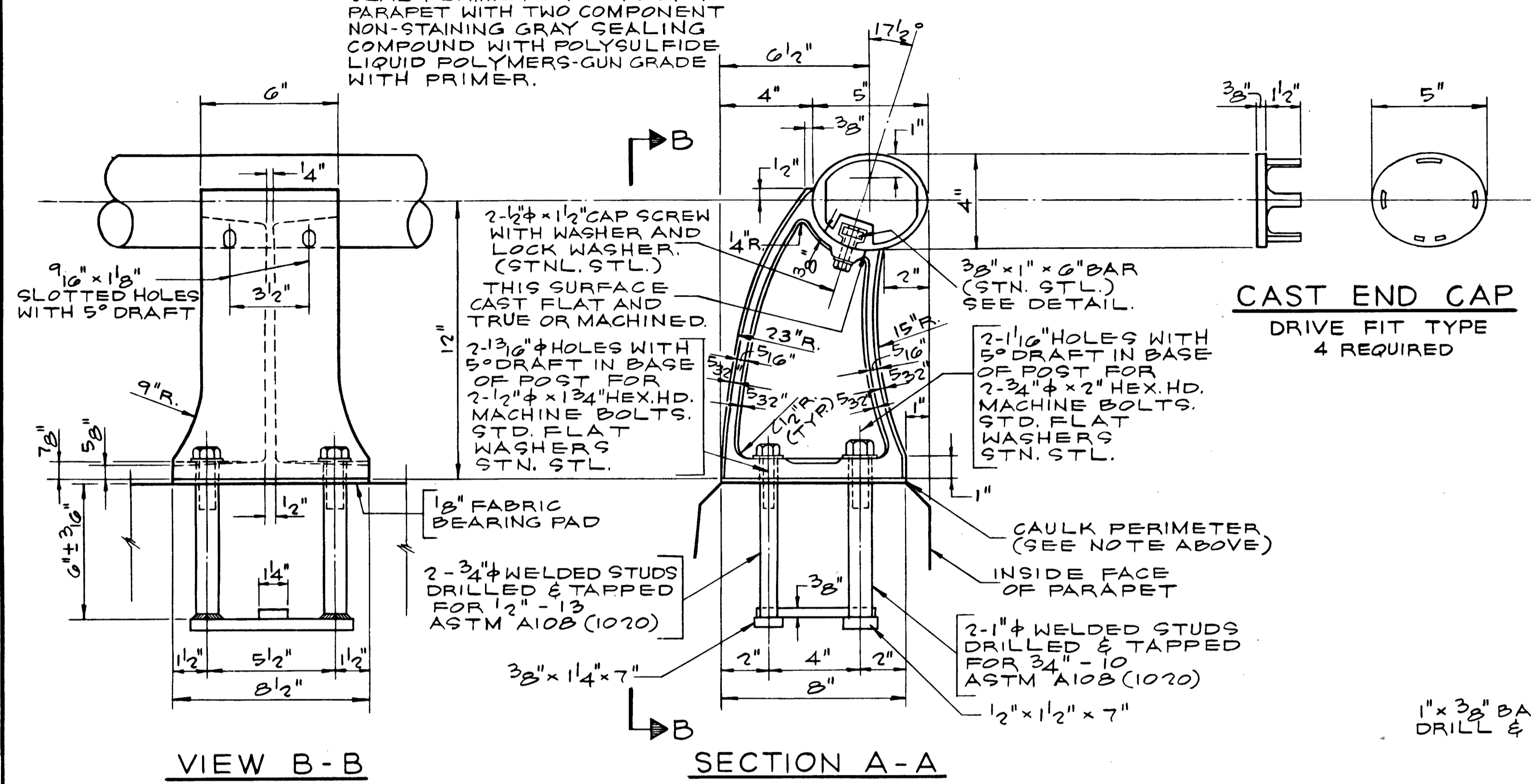
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

**NOTE:**  
COST OF ALUMINUM DRAINS & SHEETS SHALL BE INCIDENTAL TO CLASS X CONCRETE.

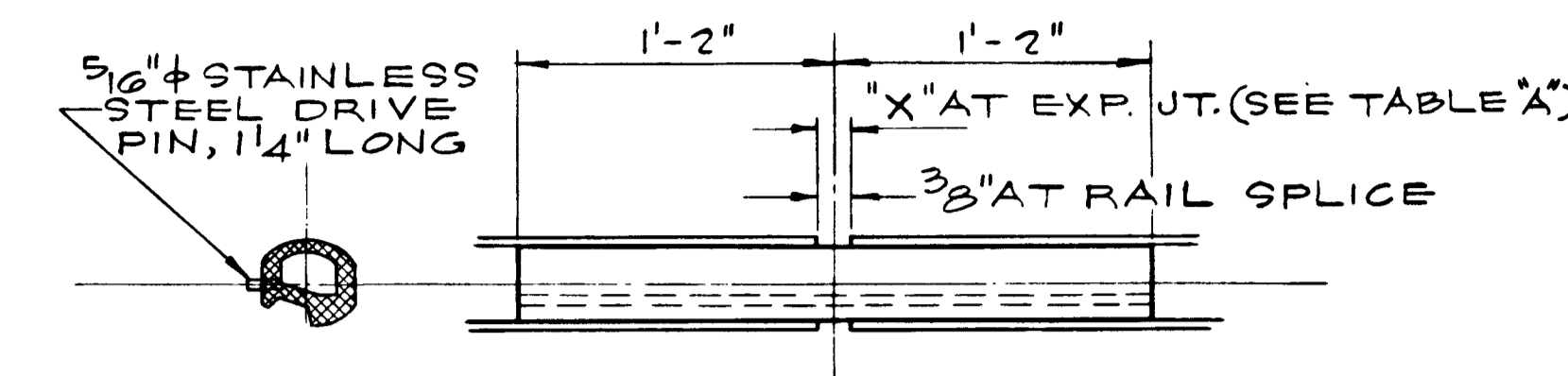
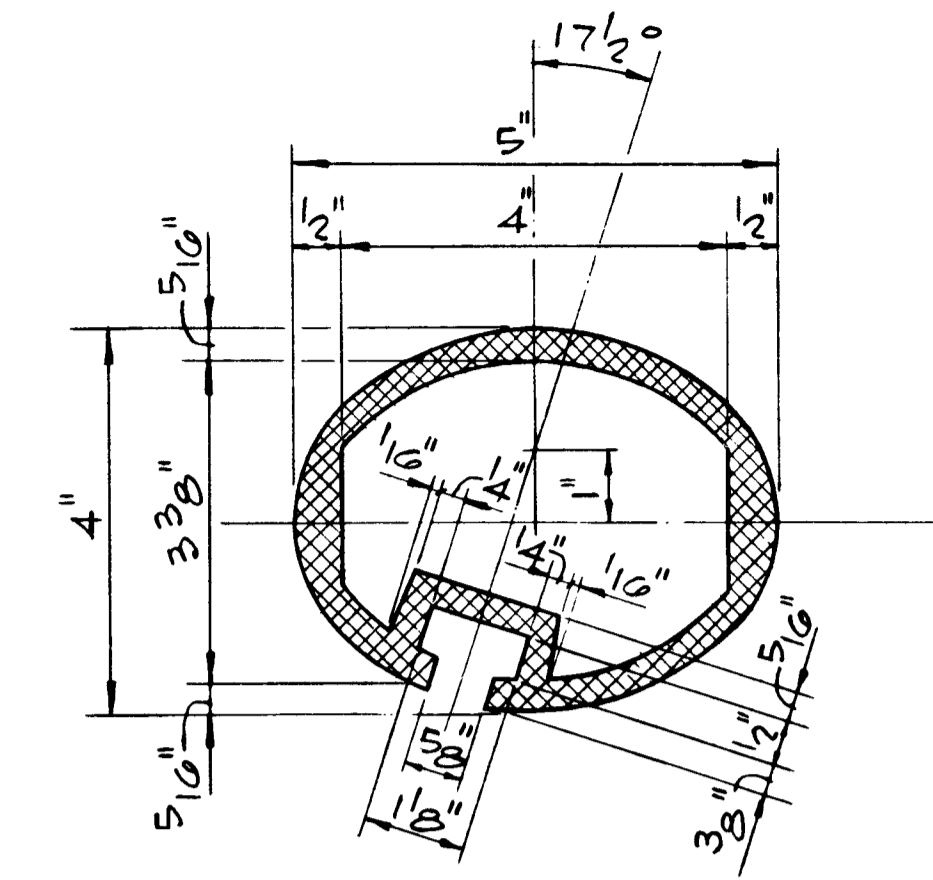
DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPFEL  
DRAWN BY G.P. ALLEMAN  
CHECKED A. MILUNAS  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	40
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280		

**NOTE:**  
SEAL PERIMETER OF POST TO PARAPET WITH TWO COMPONENT NON-STAINING GRAY SEALING COMPOUND WITH POLYSULFIDE LIQUID POLYMERS-GUN GRADE WITH PRIMER.

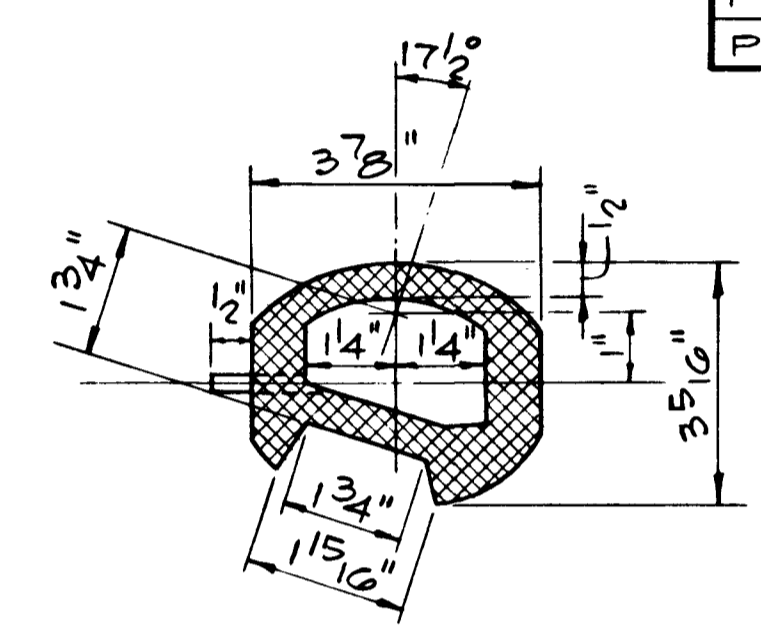
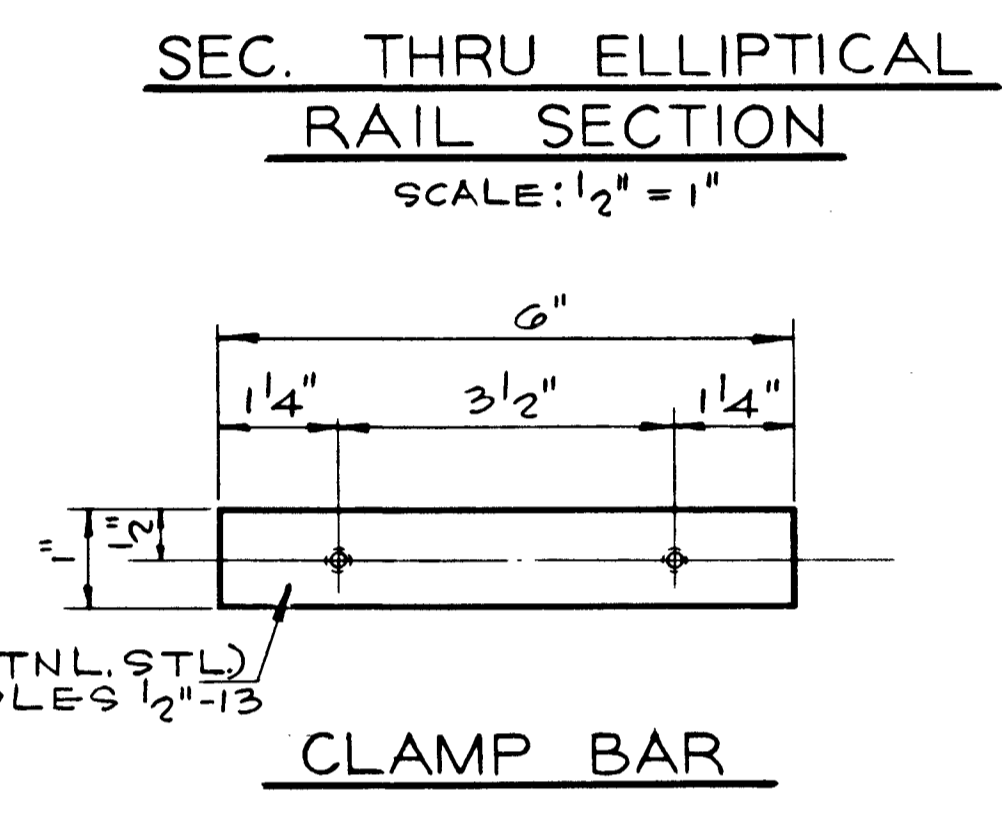


**CAST END CAP**  
DRIVE FIT TYPE  
4 REQUIRED

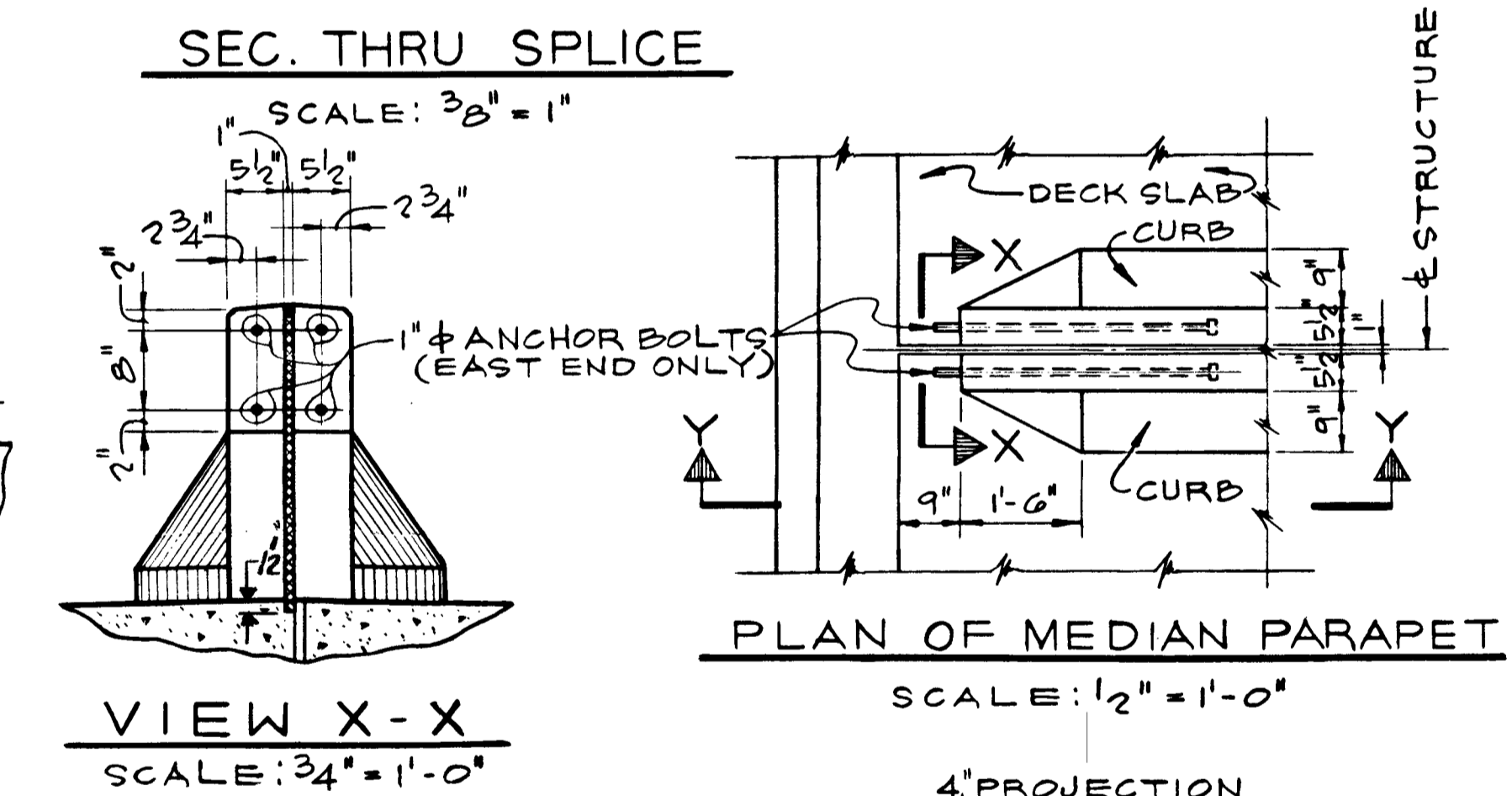
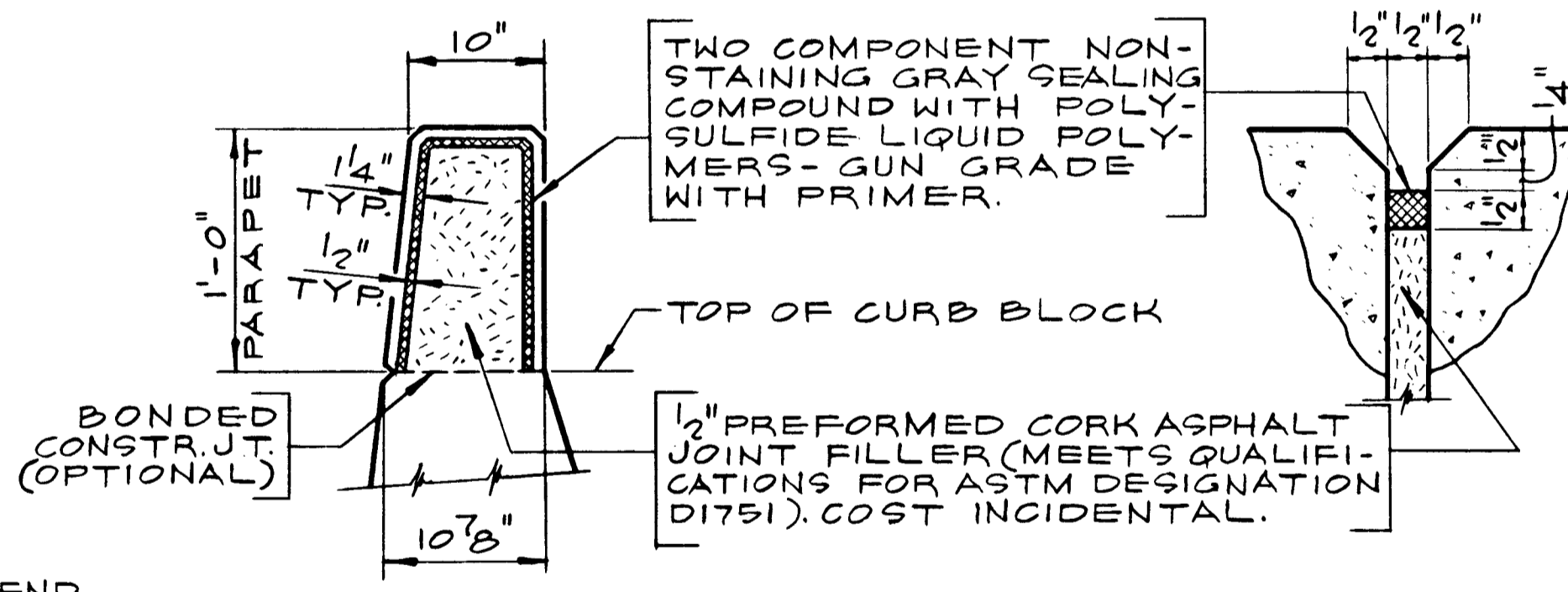
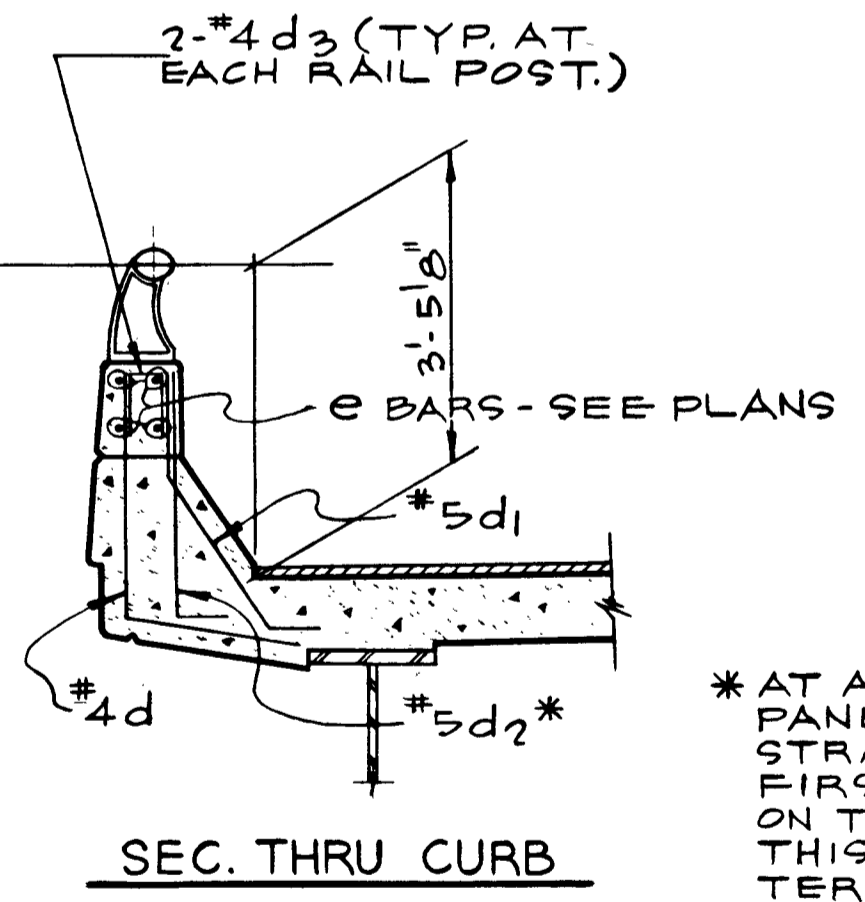
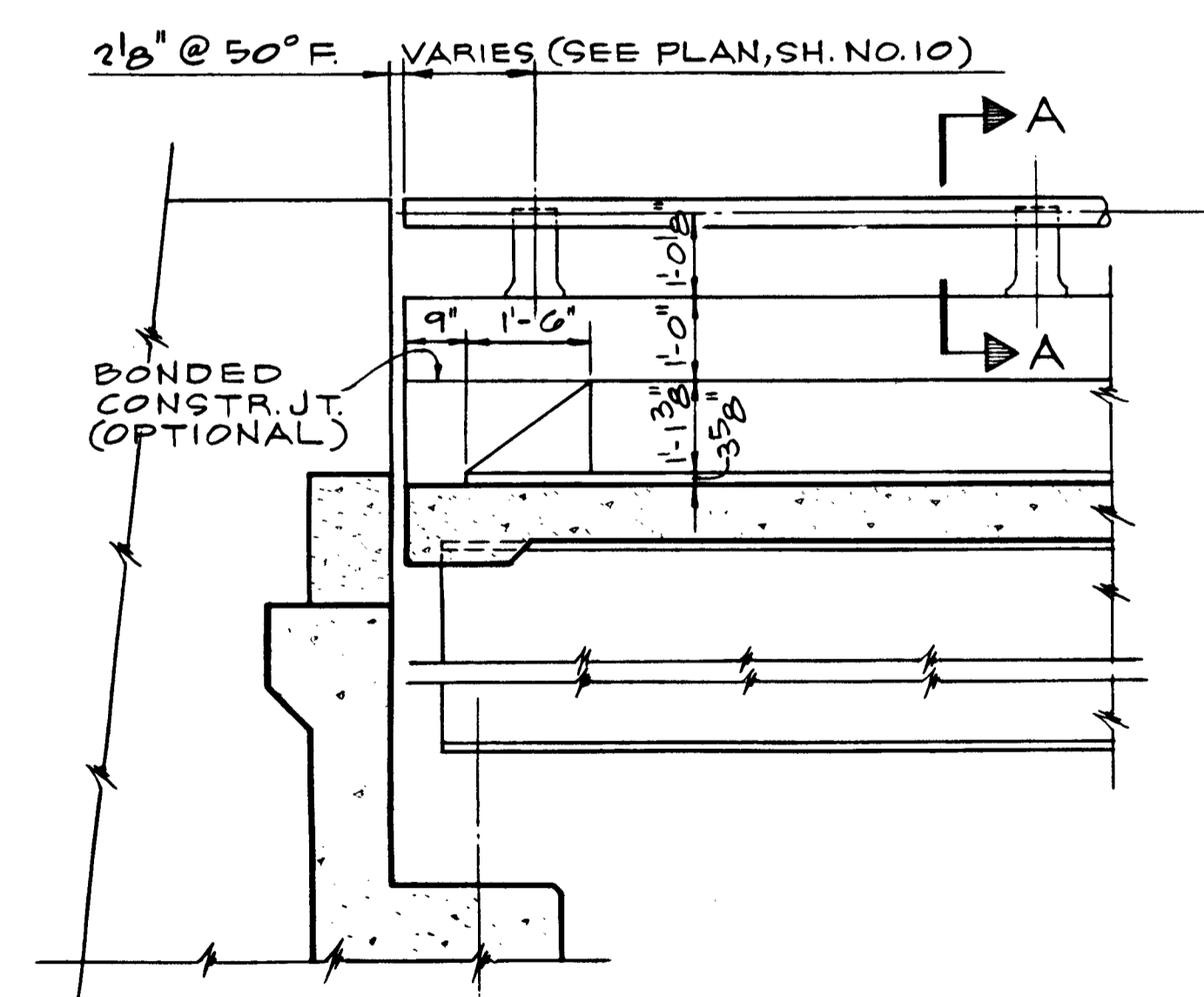


**TABLE "A"**

LOCATION	OPENING "X" @ 50° F.
PIERS 3, 10 & 24	3 1/4"
PIERS 7, 17 & 20	4 1/4"
PIERS 13 & 14	5 3/4"



SPLICE MUST BE A SLIDING FIT IN RAIL SECTION.



**NOTES:**

ALL ALUMINUM ALLOY EXTRUDED RAIL SHALL BE SUPPLIED IN MODULAR LENGTHS OF 30 FEET, EXCEPT AT THE END OF BRIDGE OR OVER OPEN JOINTS IN BRIDGE DECK WHERE THE RAIL SHALL BE ATTACHED TO A MINIMUM OF 2 POSTS.

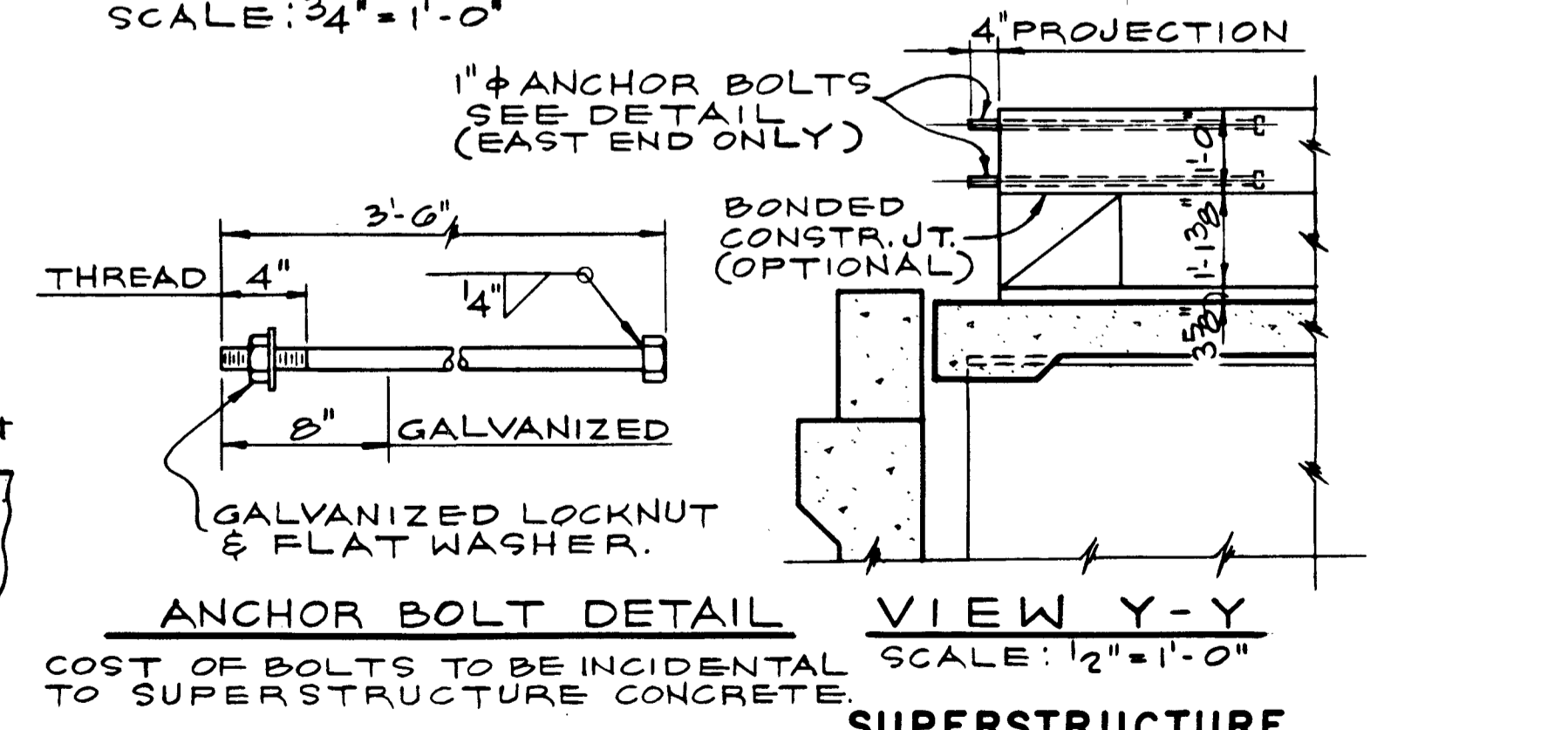
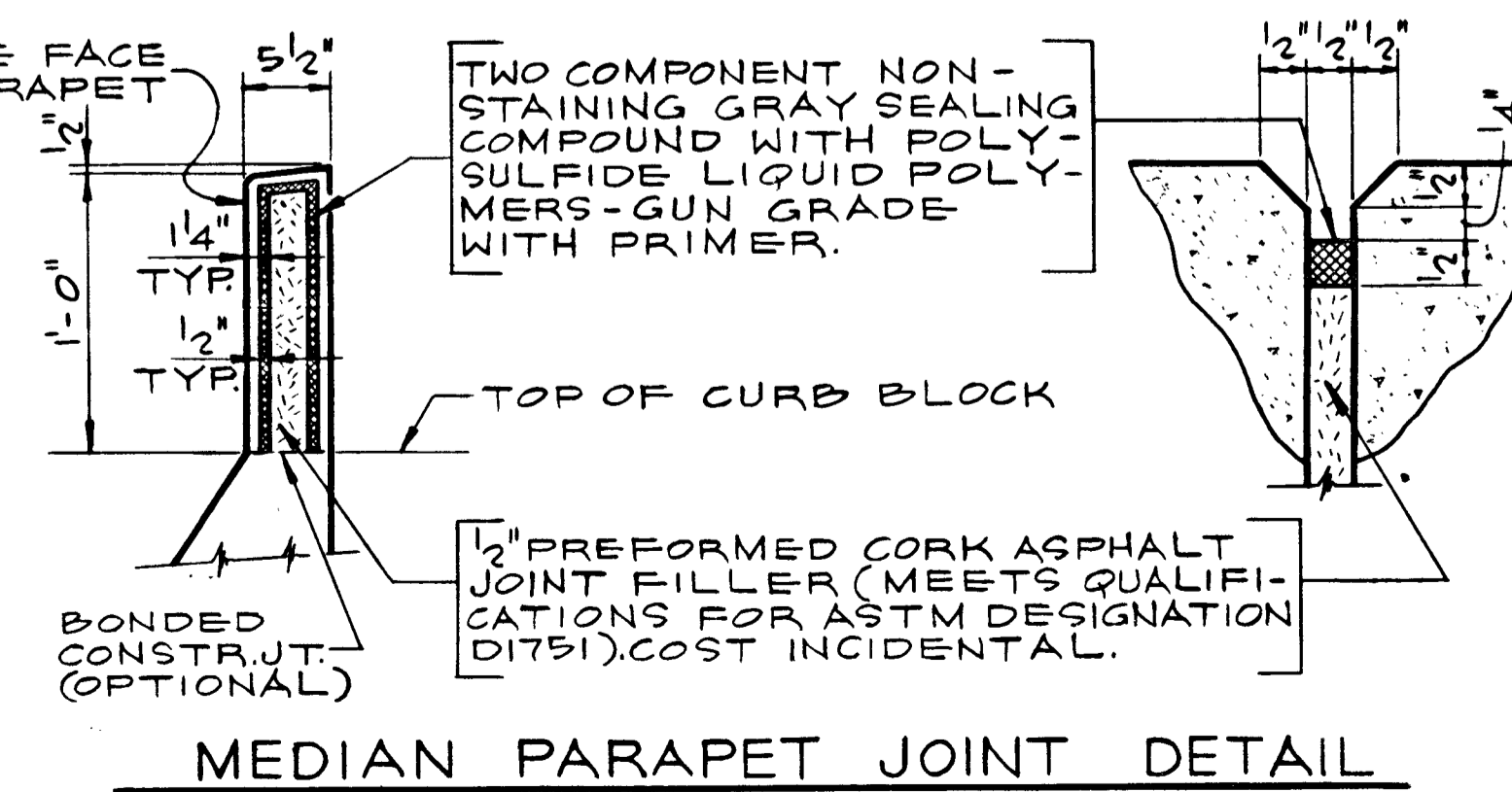
ALL JOINTS IN RAIL SHALL BE SPLICED PER DETAIL.

PROVIDE 1-1/2" AND 2-1/16" ALUMINUM SHIMS FOR 25% OF THE POSTS.

RAIL ELEMENT SHALL BE PARALLEL TO GRADE-HIGH SPOTS SHALL BE GROUND AND LOW SPOTS SHIMMED.

FABRIC BEARING PAD SHALL HAVE SAME DIMENSIONS AS BASE OF POST.

ALUMINUM ALLOY RAIL SHALL CONFORM TO ASTM B221 ALLOY 6061-T6 OR 6351-T5 WITH MIN. YIELD 35KSI, MIN. TENSILE 38KSI, AND ELONGATION OF 10% IN 2 INCHES.



**SUPERSTRUCTURE TYPICAL DETAILS**  
F.A.I. ROUTE 280 SECTION 81-ID  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY W.J. ZAPPEL  
DRAWN BY G. PALLEMAN  
CHECKED A. MILLINAS  
IN CHARGE W.J. ZAPPEL  
APPROVED W.G. HORN



# WESTBOUND OR EASTBOUND ROADWAY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	41
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			

SPAN 1						SPAN 2						SPAN 3					
DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
0.00		32.500	602.484	0.000	602.484												
10.00		32.500	602.576	0.028	602.604												
20.00		32.500	602.668	0.051	602.720												
30.00		32.500	602.760	0.068	602.828												
40.00	A OR K	32.500	602.852	0.076	602.928												
50.00		32.500	602.944	0.075	603.019												
60.00		32.500	603.036	0.066	603.102												
70.00		32.500	603.128	0.050	603.178												
80.00		32.500	603.220	0.031	603.251												
90.00		32.500	603.312	0.012	603.325												
99.99		32.500	603.404	0.000	603.404												
0.00		23.500	602.624	0.000	602.624												
10.00		23.500	602.716	0.030	602.747												
20.00		23.500	602.808	0.055	602.866												
30.00		23.500	602.900	0.072	602.973												
40.00	B OR J	23.500	602.992	0.081	603.073												
50.00		23.500	603.084	0.080	603.164												
60.00		23.500	603.176	0.070	603.247												
70.00		23.500	603.268	0.053	603.322												
80.00		23.500	603.360	0.033	603.393												
90.00		23.500	603.452	0.013	603.466												
99.99		23.500	603.544	0.000	603.544												
0.00		14.500	602.765	0.000	602.765												
10.00		14.500	602.857	0.031	602.889												
20.00		14.500	602.949	0.058	603.007												
30.00		14.500	603.041	0.076	603.117												
40.00	C OR H	14.500	603.133	0.085	603.218												
50.00		14.500	603.225	0.084	603.309												
60.00		14.500	603.317	0.074	603.391												
70.00		14.500	603.409	0.056	603.465												
80.00		14.500	603.501	0.035	603.536												
90.00		14.500	603.593	0.014	603.607												
99.99		14.500	603.685	0.000	603.685												
0.00		5.500	602.905	0.000	602.905												
10.00		5.500	602.997	0.030	603.027												
20.00		5.500	603.089	0.055	603.144												
30.00		5.500	603.181	0.072	603.254												
40.00	D OR G	5.500	603.273	0.081	603.354												
50.00		5.500	603.365	0.080	603.445												
60.00		5.500	603.457	0.070	603.527												
70.00		5.500	603.549	0.053	603.603												
80.00		5.500	603.641	0.033	603.674												
90.00		5.500	603.733	0.013	603.747												
99.99		5.500	603.825	0.000	603.825												
0.00		-3.500	603.045	0.000	603.045												
10.00		-3.500	603.137	0.028	603.166												
20.00		-3.500	603.229	0.051	603.281												
30.00		-3.500	603.321	0.068	603.390												
40.00	E OR F	-3.500	603.413	0.076	603.490												
50.00		-3.500	603.505	0.075	603.581												
60.00		-3.500	603.597	0.066	603.663												
70.00		-3.500	603.689	0.050	603.740												
80.00		-3.500	603.781	0.031	603.813												
90.00		-3.500	603.873	0.012	603.886												
99.99		-3.500	603.965	0.000	603.965												
0.00		32.500	603.404	0.000	603.404												
10.00		32.500	603.496	-0.006	603.489												
20.00		32.500	603.588	-0.007	603.581												
30.00		32.500	603.680	-0.004	603.675												
40.00	A OR K	32.500	603.772	-0.001	603.770												
50.00		32.500	603.864	-0.000	603.864												
60.00		32.500	603.956	-0.001	603.954												
70.00		32.500	604.048	-0.005	604.042												
80.00		32.500	604.140	-0.008	604.131												
90.00		32.500	604.232	-0.007	604.224												
99.99		32.500	604.324	0.000	604.324												
0.00		23.500	603.544	0.000	603.544												
10.00		23.500	603.636	-0.006	603.629												
20.00		23.500	603.728	-0.007	603.721												
30.00		23.500	603.820	-0.004	603.816												
40.00	B OR J	23.500	603.912	-0.001	603.911												
50.00		23.500	604.004	0.000	604.004												
60.00		23.500	604.096	-0.001	604.095												
70.00		23.500	604.188	-0.005	604.183												
80.00		23.500	604.280	-0.008	604.272												
90.00		23.500	604.372	-0.008	604.364												
99.99		23.500	604.464	0.000	604.464												
0.00		14.500	603.685	0.000	603.685												
10.00		14.500	603.777	-0.007	603.769												
20.00		14.500	603.869	-0.007	603.861												
30.00		14.500	603.961	-0.004	603.956												
40.00	C OR H	14.500	604.053	-0.001	604.051												
50.00		14.500	604.145	0.000	604.145												
60.00		14.500	604.237	-0.001	604.235												
70.00		14.500	604.329	-0.005	604.323												
80.00		14.500	604.421	-0.008	604.412												
90.00		14.500	604.513	-0.008	604.504												
99.99		14.500	604.605	0.000	604.605												
0.00		5.500	603.825	0.000	603.825												
10.00		5.500	603.917	-0.006	603.910												
20.00		5.500	604.009	-0.007	604.001												
30.00		5.500	604.101	-0.004	604.097												
40.00	D OR G	5.500	604.193	-0.001	604.192												
50.00		5.500	604.285	0.000	604.285												
60.00		5.500	604.377	-0.001	604.376												
70.00		5.500	604.469	-0.005	604.464												
80.00		5.500	604.561	-0.008	604.553												
90.00		5.500	604.653	-0.008	604.645												
99.99		5.500	604.745	0.000	604.745												
0.00		-3.500	603.965	0.000	603.965												
10.00		-3.500	604.057	-0.006	604.051												
20.00		-3.500	604.149	-0.007	604.142												
30.00		-3.500	604.241	-0.004	604.237												
40.00	E OR F	-3.500	604.333	-0.001	604.332												
50.00		-3.500	604.425	-0.000	604.425												
60.00		-3.500	604.517	-0.001	604.516												
70.00		-3.500	604.609	-0.005	604.604												
80.00		-3.500	604.701	-0.008	604.693												
90.00		-3.500	604.793	-0.007	604.786												
99.99		-3.500	604.885	0.000	604.885												
0.00		32.500	604.324	0.000	604.324												
10.00		32.500	604.416	0.013	604.430												
20.00		32.500	604.508	0.032	604.540												
30.00		32.500	604.600	0.051	604.651												
40.00	A OR K	32.500	604.692	0.066	604.758												
50.00		32.500	604.784	0.075	604.860												
60.00		32.500	604.876	0.076	604.952												
70.00		32.500	604.968	0.068	605.036												
80.00		32.500	605.060	0.052	605.112												
90.00		32.500	605.152	0.028	605.180												
99.99		32.500	605.244	0.000	605.244												
0.00		23.500	604.464	0.000	604.464												
10.00		23.500	604.556	0.014	604.571												
20.00		23.500	604.648	0.034	604.683												
30.00		23.500	604.740	0.054	604.795												
40.00	B OR J	23.500	604.832	0.071	604.904												
50.00		23.500	604.924	0.081	605.005												
60.00		23.500	605.016	0.082	605.098												
70.00		23.500	605.108	0.073	605.182												
80.00		23.500	605.200	0.055	605.256												
90.00		23.500	605.292	0.030	605.323												
99.99		23.500	605.384	0.000	605.384												
0.00		14.500	604.605	0.000	604.605												
10.00		14.500	604.697	0.015	604.712												
20.00		14.500	604.789	0.036	604.825												
30.00		14.500	604.881	0.057	604.939												
40.00	C OR H	14.500	604.973	0.075	605.048												
50.00		14.500	605.065	0.085	605.150												
60.00		14.500	605.157	0.086	605.243												
70.00		14.500	605.249	0.077	605.326												
80.00		14.500	605.341	0.058	605.399												
90.00		14.500	605.433	0.032	605.465												
99.99		14.500	605.525	0.000	605.525												
0.00		5.500	604.745	0.000	604.745												
10.00		5.500	604.837	0.014	604.852												
20.00		5.500	604.929	0.034	604.964												
30.00		5.500	605.021	0.054	605.076												
40.00	D OR G	5.500	605.113	0.071	605.185												
50.00		5.500	605.205	0.081	605.286												
60.00		5.500	605.297	0.082	605.379												
70.00		5.500	605.389	0.073	605.462												
80.00		5.500	605.481	0.055	605.537												
90.00		5.500	605.573	0.030	605.604												
99.99		5.500	605.665	0.000	605.665												
0.00		-3.500	604.885	0.000	604.885												
10.00		-3.500	604.977	0.013	604.991												
20.00		-3.500	605.069	0.032	605.102												
30.00		-3.500	605.161	0.051	605.213												
40.00	E OR F	-3.500	605.253	0.066	605.320												
50.00		-3.500	605.345	0.075	605.421												
60.00		-3.500	605.437	0.076	605.514												
70.00		-3.500	605.529	0.068	605.598												
80.00		-3.500	605.621	0.052	605.674												
90.00		-3.500	605.713	0.028	605.742												
99.99		-3.500	605.805	0.000	605.805												

**NOTES:** (FOR UNITS 1 THROUGH 4 & UNITS 6 THROUGH 9)

TABULATED DISTANCES FROM SUPPORT ARE MEASURED FROM THE CENTER LINE OF BEARINGS AT WEST END OF EACH SPAN ALONG CENTER LINE OF BEAMS.

TABULATED NORMAL OFFSETS ARE MEASURED FROM THE PROFILE GRADE LINE IN WESTBOUND OR EASTBOUND ROADWAY. POSITIVE OFFSETS ARE IN THE DIRECTION AWAY FROM CENTER LINE OF STRUCTURE AND NEGATIVE OFFSETS ARE IN THE DIRECTION TOWARD CENTER LINE OF STRUCTURE.

TABULATED ELEVATIONS ARE FOR TOP OF CONCRETE SLAB ALONG CENTER LINE OF BEAMS.

TABULATED DEAD LOAD DEFLECTION FOR THIS UNIT INCLUDE DEAD LOAD OF CONCRETE SLAB ONLY. DEFLECTIONS DUE TO SUPERIMPOSED DEAD LOAD ON COMPOSITE SECTION ARE INSIGNIFICANT.

WORK THIS SHEET WITH SHEETS NO. 8 AND 52.

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W. Y. HUO  
 DRAWN BY M. VADKERTY & H. de PERCZEL  
 CHECKED A. MILUNAS  
 IN CHARGE W. J. ZAPFEL  
 APPROVED W. G. HORN

**SUPERSTRUCTURE - UNIT 1**  
**DECK ELEVATIONS**  
 F.A.I. ROUTE 280 SECTION 81-ID  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED      DATE: NOV. 16, 1970

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	42
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			

# WESTBOUND OR EASTBOUND ROADWAY

SPAN 4						SPAN 5						SPAN 6						SPAN 7					
DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
0.00	A OR K	32.500	605.262	0.000	605.262																		
10.00		32.500	605.354	0.025	605.380																		
20.00		32.500	605.446	0.046	605.493																		
30.00		32.500	605.538	0.061	605.599																		
40.00		32.500	605.630	0.067	605.698																		
50.00		32.500	605.722	0.065	605.788																		
60.00		32.500	605.814	0.056	605.870																		
70.00		32.500	605.906	0.041	605.947																		
80.00		32.500	605.998	0.023	606.022																		
90.00		32.500	606.090	0.008	606.099																		
99.99	32.500	606.182	0.000	606.182																			
0.00	B OR J	23.500	605.403	0.000	605.403																		
10.00		23.500	605.495	0.027	605.522																		
20.00		23.500	605.587	0.050	605.637																		
30.00		23.500	605.679	0.066	605.745																		
40.00		23.500	605.771	0.073	605.844																		
50.00		23.500	605.863	0.071	605.934																		
60.00		23.500	605.955	0.061	606.016																		
70.00		23.500	606.047	0.045	606.092																		
80.00		23.500	606.139	0.026	606.165																		
90.00		23.500	606.231	0.009	606.240																		
99.99	23.500	606.323	0.000	606.323																			
0.00	C OR H	14.500	605.543	0.000	605.543																		
10.00		14.500	605.635	0.029	605.664																		
20.00		14.500	605.727	0.053	605.780																		
30.00		14.500	605.819	0.069	605.889																		
40.00		14.500	605.911	0.077	605.988																		
50.00		14.500	606.003	0.074	606.078																		
60.00		14.500	606.095	0.064	606.159																		
70.00		14.500	606.187	0.047	606.234																		
80.00		14.500	606.279	0.027	606.307																		
90.00		14.500	606.371	0.010	606.381																		
99.99	14.500	606.463	0.000	606.463																			
0.00	D OR G	5.500	605.683	0.000	605.683																		
10.00		5.500	605.775	0.027	605.803																		
20.00		5.500	605.867	0.050	605.918																		
30.00		5.500	605.959	0.066	606.025																		
40.00		5.500	606.051	0.073	606.124																		
50.00		5.500	606.143	0.071	606.214																		
60.00		5.500	606.235	0.061	606.296																		
70.00		5.500	606.327	0.045	606.372																		
80.00		5.500	606.419	0.026	606.446																		
90.00		5.500	606.511	0.009	606.521																		
99.99	5.500	606.603	0.000	606.603																			
0.00	E OR F	-3.500	605.824	0.000	605.824																		
10.00		-3.500	605.916	0.025	605.942																		
20.00		-3.500	606.008	0.046	606.055																		
30.00		-3.500	606.100	0.061	606.161																		
40.00		-3.500	606.192	0.067	606.259																		
50.00		-3.500	606.284	0.065	606.349																		
60.00		-3.500	606.376	0.056	606.432																		
70.00		-3.500	606.468	0.041	606.509																		
80.00		-3.500	606.560	0.023	606.584																		
90.00		-3.500	606.652	0.008	606.660																		
99.99	-3.500	606.744	0.000	606.744																			
0.00	A OR K	32.500	606.182	0.000	606.182																		
10.00		32.500	606.274	-0.002	606.271																		
20.00		32.500	606.366	0.000	606.367																		
30.00		32.500	606.458	0.007	606.466																		
40.00		32.500	606.550	0.014	606.564																		
50.00		32.500	606.642	0.018	606.661																		
60.00		32.500	606.734	0.018	606.753																		
70.00		32.500	606.826	0.015	606.841																		
80.00		32.500	606.918	0.008	606.927																		
90.00		32.500	607.010	0.002	607.013																		
99.99	32.500	607.102	0.000	607.102																			
0.00	B OR J	23.500	606.323	0.000	606.323																		
10.00		23.500	606.415	-0.002	606.412																		
20.00		23.500	606.507	0.001	606.508																		
30.00		23.500	606.599	0.008	606.607																		
40.00		23.500	606.691	0.015	606.707																		
50.00		23.500	606.783	0.020	606.803																		
60.00		23.500	606.875	0.020	606.895																		
70.00		23.500	606.967	0.016	606.983																		
80.00		23.500	607.059	0.009	607.068																		
90.00		23.500	607.151	0.002	607.153																		
99.99	23.500	607.243	0.000	607.243																			
0.00	C OR H	14.500	606.463	0.000	606.463																		
10.00		14.500	606.555	-0.002	606.552																		
20.00		14.500	606.647	0.001	606.648																		
30.00		14.500	606.739	0.009	606.748																		
40.00		14.500	606.831	0.016	606.848																		
50.00		14.500	606.923	0.021	606.944																		
60.00		14.500	607.015	0.021	607.037																		
70.00		14.500	607.107	0.017	607.124																		
80.00		14.500	607.199	0.010	607.209																		
90.00		14.500	607.291	0.002	607.294																		
99.99	14.500	607.383	0.000	607.383																			
0.00	D OR G	5.500	606.603	0.000	606.603																		
10.00		5.500	606.695	-0.002	606.693																		
20.00		5.500	606.787	0.001	606.789																		
30.00		5.500	606.879	0.008	606.888																		
40.00		5.500	606.971	0.015	606.987																		
50.00		5.500	607.063	0.020	607.084																		
60.00		5.500	607.155	0.020	607.176																		
70.00		5.500	607.247	0.016	607.264																		
80.00		5.500	607.339	0.009	607.349																		
90.00		5.500	607.431	0.002	607.434																		
99.99	5.500	607.523	0.000	607.523																			
0.00	E OR F	-3.500	606.744	0.000	606.744																		
10.00		-3.500	606.836	-0.002	606.833																		
20.00		-3.500	606.928	0.000	606.929																		
30.00		-3.500	607.020	0.007	607.027																		
40.00		-3.500	607.112	0.014	607.126																		
50.00		-3.500	607.204	0.018	607.222																		
60.00		-3.500	607.296	0.018	607.314																		
70.00		-3.500	607.388	0.015	607.403																		
80.00		-3.500	607.480	0.008	607.489																		
90.00		-3.500	607.572	0.002	607.574																		
99.99	-3.500	607.664	0.000	607.664																			
0.00	A OR K	32.500	607.102	0.000	607.102																		
10.00		32.500	607.194	0.002	607.197																		
20.00		32.500	607.286	0.008	607.295																		
30.00		32.500	607.378	0.014	607.393																		
40.00		32.500	607.470	0.018	607.488																		
50.00		32.500	607.562	0.017	607.580																		
60.00		32.500	607.654	0.013	607.667																		
70.00		32.500	607.746	0.006	607.752																		
80.00		32.500	607.838	0.000	607.837																		
90.00		32.500	607.930	-0.004	607.926																		
99.99	32.500	608.022	0.000	608.022																			
0.00	B OR J	23.500	607.243	0.000	607.243																		
10.00		23.500	607.335	0.002	607.337																		
20.00		23.500	607.427	0.009	607.436																		
30.00		23.500	607.519	0.015	607.535																		
40.00		23.500	607.611	0.019	607.630																		
50.00		23.500	607.703	0.019	607.722																		
60.00		23.500	607.795	0.014	607.810																		
70.00		23.500	607.887	0.007	607.894																		
80.00		23.500	607.979	-0.000	607.978																		
90.00		23.500	608.071	-0.004	608.067																		
99.99	23.500	608.163	0.000	608.163																			
0.00	C OR H	14.500	607.383	0.000	607.383																		
10.00		14.500	607.475	0.002	607.478																		
20.00		14.500	607.567	0.009	607.577																		
30.00		14.500	607.659	0.016	607.676																		
40.00		14.500	607.751	0.020	607.772																		
50.00		14.500	607.843	0.020	607.864																		
60.00		14.500	607.935	0.015	607.951																		
70.00		14.500	608.027	0.007	608.035																		
80.00		14.500	608.119	-0.000	608.119																		
90.00		14.500	608.211	-0.004	608.207																		
99.99	14.500	608.303	0.000	608.303																			
0.00	D OR G	5.500	607.523	0.000	607.523																		
10.00		5.500	607.615	0.002	607.618																		
20.00		5.500	607.707	0.009	607.717																		
30.00		5.500	607.799	0.015	607.815																		
40.00		5.500	607.891	0.019	607.911																		
50.00		5.500	607.983	0.019	608.003																		
60.00		5.500	608.075	0.014	608.090																		
70.00		5.500	608.167	0.007	608.175																		
80.00		5.500	608.259	-0.000	608.259																		
90.00		5.500	608.351	-0.004	608.347																		
99.99	5.500	608.443	0.000	608.443																			
0.00	E OR F	-3.500	607.664	0.000	607.664																		
10.00		-3.500	607.756	0.002	607.758																		
20.00		-3.500	607.848	0.008	607.856																		
30.00		-3.500	607.940	0.014	607.954																		
40.00		-3.500	608.032	0.018	608.050																		
50.00		-3.500	608.124	0.017	608.141																		
60.00		-3.500	608.216	0.013	608.229																		
70.00		-3.500	608.308	0.006	608.314																		
80.00		-3.500	608.400	0.000	608.399																		
90.00		-3.500	608.492	-0.004	608.488																		
99.99	-3.500	608.584	0.000	608.584																			
0.00	A OR K	32.500	608.022	0.000	608.022																		
10.00		32.500	608.114	0.009	608.124																		
20.00		32.500	608.206	0.024	608.231																		
30.00		32.500	608.298	0.041	608.340																		
40.00		32.500	608.390	0.056	608.447																		
50.00		32.500	608.482	0.065	608.548																		
60.00		32.500	608.574	0.067	608.642																		
70.00		32.500	608.666	0.060	608.727																		
80.00		32.500	608.758	0.046	608.805																		
90.00		32.500	608.850	0.025	608.875																		
99.99	32.500	608.942	0.000	608.942																			
0.00	B OR J	23.500	608.163	0.000	608.163																		
10.00		23.500	608.255	0.010	608.266																		
20.00		23.500	608.347	0.027	608.374																		
30.00		23.500	608.439	0.045	608.484																		
40.00		23.500	608.531	0.061	608.592																		
50.00		23.500	608.623	0.071	608.694																		
60.00		23.500	608.715	0.073	608.788																		
70.00		23.500	608.807	0.065	608.872																		
80.00		23.500	608.899	0.050	608.949																		
90.00		23.500	608.991	0.027	609.018																		
99.99	23.500	609.083	0.000	609.083																			
0.00	C OR H	14.500	608.303	0.000	608.303																		
10.00		14.500	608.395	0.011	608.406																		
20.00		14.500	608.487	0.028	608.516																		
30.00		14.500	608.579	0.048	608.627																		
40.00		14.500	608.671	0.064	608.736																		
50.00		14.500																					



# WESTBOUND OR EASTBOUND ROADWAY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	43
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		

SPAN 8					SPAN 9					SPAN 10							
DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
0.00		32.500	608.961	0.000	608.961												
9.99		32.500	609.053	0.053	609.106												
19.99		32.500	609.145	0.101	609.246												
29.99		32.500	609.237	0.149	609.378												
39.99		32.500	609.329	0.170	609.499												
49.99		32.500	609.421	0.190	609.611												
59.99		32.500	609.513	0.202	609.715												
69.99	A OR K	32.500	609.605	0.202	609.807												
79.99		32.500	609.697	0.193	609.890												
89.99		32.500	609.789	0.175	609.964												
99.99		32.500	609.881	0.150	610.031												
109.99		32.500	609.973	0.118	610.091												
119.99		32.500	610.065	0.084	610.149												
129.99		32.500	610.157	0.050	610.207												
139.99		32.500	610.249	0.021	610.270												
149.99		32.500	610.341	0.000	610.341												
0.00		23.500	609.101	0.000	609.101												
9.99		23.500	609.193	0.055	609.248												
19.99		23.500	609.285	0.105	609.390												
29.99		23.500	609.377	0.146	609.524												
39.99		23.500	609.469	0.177	609.646												
49.99		23.500	609.561	0.198	609.760												
59.99		23.500	609.653	0.210	609.853												
69.99	B OR J	23.500	609.745	0.210	609.955												
79.99		23.500	609.837	0.200	610.038												
89.99		23.500	609.929	0.182	610.111												
99.99		23.500	610.021	0.155	610.176												
109.99		23.500	610.113	0.122	610.235												
119.99		23.500	610.205	0.086	610.291												
129.99		23.500	610.297	0.050	610.348												
139.99		23.500	610.389	0.021	610.410												
149.99		23.500	610.481	0.000	610.481												
0.00		14.500	609.241	0.000	609.241												
9.99		14.500	609.333	0.057	609.391												
19.99		14.500	609.425	0.110	609.535												
29.99		14.500	609.517	0.153	609.571												
39.99		14.500	609.609	0.185	609.795												
49.99		14.500	609.701	0.207	609.909												
59.99		14.500	609.793	0.220	610.013												
69.99	C OR H	14.500	609.885	0.220	610.105												
79.99		14.500	609.977	0.209	610.187												
89.99		14.500	610.069	0.190	610.260												
99.99		14.500	610.161	0.162	610.324												
109.99		14.500	610.253	0.127	610.381												
119.99		14.500	610.345	0.090	610.435												
129.99		14.500	610.437	0.053	610.491												
139.99		14.500	610.529	0.022	610.552												
149.99		14.500	610.621	0.000	610.621												
0.00		32.500	610.341	0.000	610.341												
9.99		32.500	610.433	-0.012	610.420												
19.99		32.500	610.525	-0.016	610.508												
29.99		32.500	610.617	-0.015	610.601												
39.99		32.500	610.709	-0.009	610.689												
49.99		32.500	610.801	-0.002	610.798												
59.99		32.500	610.893	0.002	610.895												
69.99	A OR K	32.500	610.985	0.005	610.990												
79.99		32.500	611.077	0.005	611.082												
89.99		32.500	611.169	0.002	611.171												
99.99		32.500	611.261	-0.004	611.256												
109.99		32.500	611.353	-0.010	611.342												
119.99		32.500	611.445	-0.016	611.445												
129.99		32.500	611.537	-0.017	611.519												
139.99		32.500	611.629	-0.012	611.616												
149.99		32.500	611.721	0.000	611.721												
0.00		23.500	610.481	0.000	610.481												
9.99		23.500	610.573	-0.013	610.560												
19.99		23.500	610.665	-0.018	610.646												
29.99		23.500	610.757	-0.018	610.738												
39.99		23.500	610.849	-0.013	610.826												
49.99		23.500	610.941	-0.006	610.934												
59.99		23.500	611.033	-0.001	611.032												
69.99	B OR J	23.500	611.125	0.002	611.127												
79.99		23.500	611.217	0.002	611.219												
89.99		23.500	611.309	-0.000	611.308												
99.99		23.500	611.401	-0.006	611.394												
109.99		23.500	611.493	-0.013	611.480												
119.99		23.500	611.585	-0.018	611.567												
129.99		23.500	611.677	-0.018	611.658												
139.99		23.500	611.769	-0.013	611.756												
149.99		23.500	611.861	0.000	611.861												
0.00		14.500	610.621	0.000	610.621												
9.99		14.500	610.713	-0.013	610.700												
19.99		14.500	610.805	-0.019	610.786												
29.99		14.500	610.897	-0.019	610.878												
39.99		14.500	610.989	-0.014	610.975												
49.99		14.500	611.081	-0.007	611.074												
59.99		14.500	611.173	-0.001	611.172												
69.99	C OR H	14.500	611.265	0.001	611.267												
79.99		14.500	611.357	0.001	611.359												
89.99		14.500	611.449	-0.001	611.448												
99.99		14.500	611.541	-0.007	611.534												
109.99		14.500	611.633	-0.013	611.619												
119.99		14.500	611.725	-0.019	611.706												
129.99		14.500	611.817	-0.019	611.798												
139.99		14.500	611.909	-0.013	611.896												
149.99		14.500	612.001	0.000	612.001												
0.00		5.500	609.382	0.000	609.382												
9.99		5.500	609.474	0.055	609.529												
19.99		5.500	609.566	0.105	609.671												
29.99		5.500	609.658	0.146	609.805												
39.99		5.500	609.750	0.177	609.927												
49.99		5.500	609.842	0.198	610.040												
59.99		5.500	609.934	0.210	610.144												
69.99	D OR G	5.500	610.026	0.210	610.236												
79.99		5.500	610.118	0.200	610.318												
89.99		5.500	610.210	0.182	610.392												
99.99		5.500	610.302	0.155	610.457												
109.99		5.500	610.394	0.122	610.516												
119.99		5.500	610.486	0.086	610.572												
129.99		5.500	610.578	0.050	610.629												
139.99		5.500	610.670	0.021	610.691												
149.99		5.500	610.762	0.000	610.762												
0.00		5.500	610.762	0.000	610.762												
9.99		5.500	610.854	-0.013	610.841												
19.99		5.500	610.946	-0.018	610.927												
29.99		5.500	611.038	-0.018	611.019												
39.99		5.500	611.130	-0.013	611.117												
49.99		5.500	611.222	-0.006	611.215												
59.99		5.500	611.314	-0.001	611.313												
69.99	D OR G	5.500	611.406	0.002	611.408												
79.99		5.500	611.498	0.002	611.500												
89.99		5.500	611.590	-0.000	611.589												
99.99		5.500	611.682	-0.006	611.675												
109.99		5.500	611.774	-0.013	611.761												
119.99		5.500	611.866	-0.018	611.847												
129.99		5.500	611.958	-0.018	611.939												
139.99		5.500	612.050	-0.013	612.037												
149.99		5.500	612.142	0.000	612.142												
0.00		5.500	612.142	0.000	612.142												
9.99		5.500	612.234	0.021	612.255												
19.99		5.500	612.326	0.051	612.377												
29.99		5.500	612.418	0.086	612.505												
39.99		5.500	612.510	0.123	612.633												
49.99		5.500	612.602	0.156	612.758												
59.99		5.500	612.694	0.182	612.877												
69.99	D OR G	5.500	612.786	0.201	612.987												
79.99		5.500	612.878	0.210	613.088												
89.99		5.500	612.970	0.210	613.180												
99.99		5.500	613.062	0.198	613.260												
109.99		5.500	613.154	0.176	613.330												
119.99		5.500	613.246	0.145	613.391												
129.99		5.500	613.338	0.103	613.441												
139.99		5.500	613.430	0.053	613.484												
149.99		5.500	613.522	0.000	613.522												
0.00		-3.500	609.522	0.000	609.522												
9.99		-3.500	609.614	0.053	609.667												
19.99		-3.500	609.706	0.101	609.808												
29.99		-3.500	609.798	0.141	609.940												
39.99		-3.500	609.890	0.170	610.061												
49.99		-3.500	609.982	0.190	610.173												
59.99		-3.500	610.074	0.202	610.277												
69.99	E OR F	-3.500	610.166	0.202	610.368												
79.99		-3.500	610.258	0.193	610.452												
89.99		-3.500	610.350	0.175	610.525												
99.99		-3.500	610.442	0.150	610.593												
109.99		-3.500	610.534	0.118	610.653												
119.99		-3.500	610.626	0.084	610.711												
129.99		-3.500	610.718	0.050	610.768												
139.99		-3.500	610.810	0.021	610.832												
149.99		-3.500	610.902	0.000	610.902												
0.00		-3.500	610.902	0.000	610.902												
9.99		-3.500	610.994	-0.012	610.982												
19.99		-3.500	611.086	-0.016	611.069												
29.99		-3.500	611.178	-0.015	611.162												
39.99		-3.500	611.270	-0.009	611.260												
49.99		-3.500	611.362	-0.002	611.359												
59.99		-3.500	611.454	0.002	611.456												
69.99	E OR F	-3.500	611.546	0.005	611.552												
79.99		-3.500	611.638	0.005	611.643												
89.99		-3.500	611.730	0.002	611.733												
99.99		-3.500	611.822	-0.004	611.818												
109.99		-3.500	611.914	-0.010	611.904												
119.99		-3.500	612.006	-0.016	611.990												
129.99		-3.500	612.098	-0.017	612.081												
139.99		-3.500	612.190	-0.012	612.177												
149.99		-3.500	612.282	0.000	612.282												
0.00		-3.500	612.282	0.000	612.282												
9.99		-3.500	612.374	0.020	612.395												
19.99		-3.500	612.466	0.049	612.516												
29.99		-3.500	612.558	0.082	612.641												
39.99		-3.500	612.650	0.117	612.768												
49.99		-3.500	612.742	0.1													

# WESTBOUND OR EASTBOUND ROADWAY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	44
FED. ROAD DIST. NO.		FED. AID PROJECT 1-280		

SPAN 11					SPAN 12					SPAN 13							
DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
0.00		32.500	613.119	0.000	613.119												
9.99		32.500	613.211	0.072	613.284												
19.99		32.500	613.303	0.140	613.443												
29.99		32.500	613.395	0.198	613.593												
39.99		32.500	613.487	0.249	613.737												
49.99		32.500	613.579	0.292	613.871												
59.99		32.500	613.671	0.326	613.998												
69.99		32.500	613.763	0.350	614.114												
79.99		32.500	613.855	0.364	614.219												
89.99	A OR K	32.500	613.947	0.367	614.314												
99.99		32.500	614.039	0.358	614.399												
109.99		32.500	614.131	0.342	614.473												
119.99		32.500	614.223	0.315	614.539												
129.99		32.500	614.315	0.281	614.596												
139.99		32.500	614.407	0.241	614.649												
149.99		32.500	614.499	0.196	614.696												
159.99		32.500	614.591	0.150	614.742												
169.99		32.500	614.683	0.104	614.787												
179.99		32.500	614.775	0.062	614.837												
189.99		32.500	614.867	0.026	614.893												
0.00		23.500	613.259	0.000	613.259												
9.99		23.500	613.351	0.076	613.428												
19.99		23.500	613.443	0.147	613.591												
29.99		23.500	613.535	0.208	613.744												
39.99		23.500	613.627	0.262	613.890												
49.99		23.500	613.719	0.308	614.027												
59.99		23.500	613.811	0.343	614.155												
69.99		23.500	613.903	0.369	614.272												
79.99		23.500	613.995	0.383	614.379												
89.99	B OR J	23.500	614.087	0.386	614.473												
99.99		23.500	614.179	0.378	614.557												
109.99		23.500	614.271	0.359	614.630												
119.99		23.500	614.363	0.331	614.695												
129.99		23.500	614.455	0.295	614.751												
139.99		23.500	614.547	0.253	614.801												
149.99		23.500	614.639	0.206	614.846												
159.99		23.500	614.731	0.157	614.889												
169.99		23.500	614.823	0.109	614.933												
179.99		23.500	614.915	0.065	614.981												
189.99		23.500	615.007	0.027	615.035												
0.00		14.500	613.400	0.000	613.400												
9.99		14.500	613.492	0.079	613.571												
19.99		14.500	613.584	0.154	613.738												
29.99		14.500	613.676	0.218	613.894												
39.99		14.500	613.768	0.274	614.042												
49.99		14.500	613.860	0.322	614.182												
59.99		14.500	613.952	0.359	614.311												
69.99		14.500	614.044	0.385	614.430												
79.99		14.500	614.136	0.400	614.536												
89.99	C OR H	14.500	614.228	0.403	614.631												
99.99		14.500	614.320	0.395	614.715												
109.99		14.500	614.412	0.376	614.788												
119.99		14.500	614.504	0.346	614.851												
129.99		14.500	614.596	0.309	614.905												
139.99		14.500	614.688	0.264	614.953												
149.99		14.500	614.780	0.215	614.996												
159.99		14.500	614.872	0.164	615.036												
169.99		14.500	614.964	0.114	615.078												
179.99		14.500	615.056	0.068	615.124												
189.99		14.500	615.148	0.028	615.177												
0.00		5.500	613.540	0.000	613.540												
9.99		5.500	613.632	0.076	613.708												
19.99		5.500	613.724	0.147	613.871												
29.99		5.500	613.816	0.208	614.025												
39.99		5.500	613.908	0.262	614.171												
49.99		5.500	614.000	0.308	614.308												
59.99		5.500	614.092	0.343	614.436												
69.99		5.500	614.184	0.369	614.553												
79.99		5.500	614.276	0.383	614.659												
89.99	D OR G	5.500	614.368	0.386	614.754												
99.99		5.500	614.460	0.378	614.838												
109.99		5.500	614.552	0.359	614.912												
119.99		5.500	614.644	0.331	614.976												
129.99		5.500	614.736	0.295	615.032												
139.99		5.500	614.828	0.253	615.082												
149.99		5.500	614.920	0.206	615.127												
159.99		5.500	615.012	0.157	615.170												
169.99		5.500	615.104	0.109	615.213												
179.99		5.500	615.196	0.065	615.262												
189.99		5.500	615.288	0.027	615.316												
0.00		14.500	615.240	0.000	615.240												
9.99		14.500	615.332	-0.020	615.311												
19.99		14.500	615.424	-0.030	615.394												
29.99		14.500	615.516	-0.032	615.483												
39.99		14.500	615.607	-0.026	615.580												
49.99		14.500	615.697	-0.016	615.681												
59.99		14.500	615.788	-0.004	615.782												
69.99		14.500	615.879	0.008	615.882												
79.99		14.500	615.959	0.018	615.978												
89.99	C OR H	14.500	616.044	0.025	616.069												
99.99		14.500	616.127	0.027	616.155												
109.99		14.500	616.208	0.025	616.234												
119.99		14.500	616.289	0.018	616.307												
129.99		14.500	616.368	-0.008	616.376												
139.99		14.500	616.445	-0.003	616.441												
149.99		14.500	616.521	-0.016	616.505												
159.99		14.500	616.596	-0.026	616.570												
169.99		14.500	616.669	-0.031	616.637												
179.99		14.500	616.741	-0.029	616.711												
189.99		14.500	616.812	-0.020	616.791												
0.00		5.500	617.021	0.000	617.021												
9.99		5.500	617.089	0.027	617.116												
19.99		5.500	617.155	0.065	617.220												
29.99		5.500	617.220	0.109	617.329												
39.99		5.500	617.283	0.156	617.440												
49.99		5.500	617.346	0.205	617.551												
59.99		5.500	617.406	0.252	617.658												
69.99		5.500	617.466	0.294	617.760												
79.99		5.500	617.523	0.329	617.853												
89.99	D OR G	5.500	617.580	0.357	617.937												
99.99		5.500	617.635	0.375	618.010												
109.99		5.500	617.689	0.383	618.072												
119.99		5.500	617.741	0.380	618.121												
129.99		5.500	617.792	0.366	618.158												
139.99		5.500	617.841	0.340	618.182												
149.99		5.500	617.889	0.305	618.195												
159.99		5.500	617.936	0.259	618.196												
169.99		5.500	617.981	0.206	618.188												
179.99		5.500	618.025	0.145	618.171												
189.99		5.500	618.068	0.079	618.147												
199.99		5.500	618.109	0.008	618.118												
0.00		-3.500	613.681	0.000	613.681												
9.99		-3.500	613.773	0.072	613.845												
19.99		-3.500	613.865	0.140	614.005												
29.99		-3.500	613.957	0.198	614.155												
39.99		-3.500	614.049	0.249	614.298												
49.99		-3.500	614.141	0.292	614.433												
59.99		-3.500	614.233	0.326	614.559												
69.99		-3.500	614.325	0.350	614.675												
79.99		-3.500	614.417	0.364	614.781												
89.99	E OR F	-3.500	614.509	0.367	614.876												
99.99		-3.500	614.601	0.359	614.960												
109.99		-3.500	614.693	0.342	615.035												
119.99		-3.500	614.785	0.315	615.100												
129.99		-3.500	614.877	0.281	615.158												
139.99		-3.500	614.969	0.241	615.210												
149.99		-3.500	615.061	0.196	615.256												
159.99		-3.500	615.153	0.150	615.303												
169.99		-3.500	615.245	0.104	615.349												
179.99		-3.500	615.337	0.062	615.395												
189.99		-3.500	615.429	0.026	615.455												
0.00		-3.500	615.521	0.000	615.521												
9.99		-3.500	615.613	-0.018	615.594												
19.99		-3.500	615.705	-0.026	615.678												
29.99		-3.500	615.797	-0.028	615.768												
39.99		-3.500	615.888	-0.022	615.866												
49.99		-3.500	615.978	-0.013	615.967												
59.99		-3.500	616.065	-0.001	616.065												
69.99		-3.500	616.154	0.010	616.165												
79.99		-3.500	616.240	0.020	616.260												
89.99	E OR F	-3.500	616.325	0.026	616.352												
99.99		-3.500	616.408	0.029	616.437												
109.99		-3.500	616.489	0.026	616.516												
119.99		-3.500	616.570	0.020	616.590												
129.99		-3.500	616.648	0.011	616.660												
139.99		-3.500	616.726	-0.001	616.725												
149.99		-3.500	616.802	-0.012	616.789												
159.99		-3.500	616.877	-0.022	616.854												
169.99		-3.500	616.951	-0.028	616.921												
179.99		-3.500	617.022	-0.026	616.996												
189.99		-3.500	617.092	-0.018	617.074												
0.00		-3.500	618.162	0.000	618.162												
9.99		-3.500	618.229	0.026	618.256												
19.99		-3.500	618.295	0.063	618.359												
29.99		-3.500	618.360	0.105	618.465												
39.99		-3.500	618.424	0.151	618.576												
49.99		-3.500	618.486	0.198	618.684												
59.99		-3.500	618.547	0.243	618.790												
69.99		-3.500	618.606	0.283	618.891												
79.99		-3.500	618.664	0.317	618.981												
89.99	E OR F	-3.500	618.720	0.343	619.064												
99.99		-3.500	618.775	0.360	619.136												
109.99		-3.500	618.829	0.367	619.197												
119.99		-3.500	618.881	0.364	619.246												
129.99		-3.500	618.932	0.350	619.282												
139.99		-3.500	618.982	0.325	619.307												
149.99		-3.500	619.030	0.290	619.322												
159.99		-3.500	619.077	0.245	619.322												
169.99		-3.500	619.122	0.193	619.316												
179.99		-3.500	619.166	0.133	619.299												
189.99		-3.500	619.208	0.069	619.278												
199.99		-3.500	619.249	0.000	619.249												



# WESTBOUND OR EASTBOUND ROADWAY

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	45
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		

SPAN (L <sub>0</sub> - L <sub>1</sub> )					SPAN (L <sub>1</sub> - L <sub>2</sub> )					SPAN (L <sub>2</sub> - L <sub>3</sub> ) & BRGS. STRINGER					SPAN (L <sub>3</sub> - L <sub>4</sub> )								
DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
0.00	S1	32.500	617.702	0.003	617.705	0.00	S1	32.500	617.843	0.072	617.916	0.00	S1	32.500	617.965	0.139	618.104	0.00	S1	32.500	618.066	0.201	618.267
10.00		32.500	617.741	0.023	617.745	10.00		32.500	617.877	0.092	617.970	10.00		32.500	617.993	0.159	618.153	10.00		32.500	618.089	0.217	618.307
20.00		32.500	617.779	0.043	617.823	20.00		32.500	617.910	0.111	618.021	20.00		32.500	618.020	0.180	618.201	20.00		32.500	618.111	0.233	618.344
30.00		32.500	617.815	0.059	617.875	30.00		32.500	617.941	0.126	618.068	30.00		32.500	618.046	0.194	618.240	30.00		32.500	618.131	0.244	618.376
37.99		32.500	617.843	0.072	617.916	37.99		32.500	617.965	0.139	618.104	37.58		32.500	618.065	0.200	618.265	37.99		32.500	618.147	0.253	618.400
0.00	S2	25.250	617.815	0.007	617.822	0.00	S2	25.250	617.956	0.087	618.044	0.00	S2	25.250	618.078	0.154	618.232	0.00	S2	25.250	618.179	0.216	618.396
10.00		25.250	617.854	0.031	617.885	10.00		25.250	617.990	0.108	618.098	10.00		25.250	618.106	0.175	618.292	10.00		25.250	618.202	0.233	618.435
20.00		25.250	617.892	0.054	617.948	20.00		25.250	618.023	0.127	618.150	20.00		25.250	618.133	0.196	618.330	20.00		25.250	618.224	0.248	618.473
30.00		25.250	617.928	0.072	618.001	30.00		25.250	618.054	0.142	618.196	30.00		25.250	618.159	0.210	618.369	30.00		25.250	618.244	0.260	618.504
37.99		25.250	617.956	0.087	618.044	37.99		25.250	618.078	0.154	618.232	37.58		25.250	618.178	0.216	618.394	37.99		25.250	618.260	0.269	618.529
0.00	S3	18.000	617.928	0.011	617.939	0.00	S3	18.000	618.069	0.100	618.170	0.00	S3	18.000	618.191	0.167	618.358	0.00	S3	18.000	618.292	0.229	618.522
10.00		18.000	617.967	0.037	618.005	10.00		18.000	618.103	0.120	618.224	10.00		18.000	618.219	0.188	618.407	10.00		18.000	618.315	0.246	618.561
20.00		18.000	618.005	0.062	618.068	20.00		18.000	618.136	0.140	618.276	20.00		18.000	618.247	0.209	618.456	20.00		18.000	618.337	0.261	618.599
30.00		18.000	618.041	0.083	618.125	30.00		18.000	618.167	0.155	618.322	30.00		18.000	618.272	0.222	618.495	30.00		18.000	618.357	0.272	618.630
37.99		18.000	618.069	0.100	618.170	37.99		18.000	618.191	0.167	618.358	37.58		18.000	618.291	0.229	618.520	37.99		18.000	618.373	0.281	618.655
0.00	S4	10.750	618.041	0.014	618.055	0.00	S4	10.750	618.183	0.109	618.292	0.00	S4	10.750	618.304	0.176	618.480	0.00	S4	10.750	618.405	0.238	618.644
10.00		10.750	618.080	0.042	618.122	10.00		10.750	618.216	0.130	618.347	10.00		10.750	618.332	0.197	618.530	10.00		10.750	618.428	0.255	618.684
20.00		10.750	618.118	0.069	618.187	20.00		10.750	618.249	0.149	618.399	20.00		10.750	618.360	0.218	618.578	20.00		10.750	618.450	0.270	618.721
30.00		10.750	618.154	0.091	618.246	30.00		10.750	618.280	0.164	618.445	30.00		10.750	618.385	0.232	618.617	30.00		10.750	618.470	0.282	618.753
37.99		10.750	618.183	0.109	618.292	37.99		10.750	618.304	0.176	618.480	37.58		10.750	618.404	0.238	618.642	37.99		10.750	618.486	0.291	618.777
0.00	S5	3.500	618.154	0.016	618.171	0.00	S5	3.500	618.296	0.116	618.413	0.00	S5	3.500	618.417	0.183	618.601	0.00	S5	3.500	618.518	0.246	618.764
10.00		3.500	618.193	0.045	618.239	10.00		3.500	618.330	0.137	618.467	10.00		3.500	618.446	0.204	618.650	10.00		3.500	618.541	0.262	618.804
20.00		3.500	618.231	0.073	618.305	20.00		3.500	618.362	0.156	618.519	20.00		3.500	618.473	0.225	618.698	20.00		3.500	618.563	0.278	618.841
30.00		3.500	618.268	0.097	618.365	30.00		3.500	618.393	0.171	618.565	30.00		3.500	618.498	0.239	618.738	30.00		3.500	618.584	0.289	618.873
37.99		3.500	618.296	0.116	618.413	37.99		3.500	618.417	0.183	618.601	37.58		3.500	618.517	0.245	618.762	37.99		3.500	618.599	0.298	618.897
0.00	S6	-3.750	618.267	0.017	618.285	0.00	S6	-3.750	618.409	0.120	618.529	0.00	S6	-3.750	618.530	0.186	618.717	0.00	S6	-3.750	618.631	0.249	618.880
10.00		-3.750	618.306	0.047	618.354	10.00		-3.750	618.443	0.140	618.583	10.00		-3.750	618.559	0.207	618.766	10.00		-3.750	618.654	0.265	618.920
20.00		-3.750	618.344	0.075	618.420	20.00		-3.750	618.475	0.159	618.635	20.00		-3.750	618.586	0.227	618.813	20.00		-3.750	618.676	0.280	618.957
30.00		-3.750	618.381	0.100	618.461	30.00		-3.750	618.506	0.174	618.681	30.00		-3.750	618.612	0.241	618.853	30.00		-3.750	618.697	0.292	618.989
37.99		-3.750	618.409	0.120	618.529	37.99		-3.750	618.530	0.186	618.717	37.58		-3.750	618.630	0.248	618.879	37.99		-3.750	618.712	0.301	619.013

**NOTES: (TYPICAL UNIT 5 ONLY)**

(L<sub>1</sub>) - DESIGNATES CENTER LINE OF FLOOR BEAM AND PANEL POINT OF THE ARCH SPAN.

(L<sub>3</sub>) & BRGS. STRINGER - DESIGNATES CENTER LINE OF STRINGER BEARINGS 5" FROM CENTER LINE OF FLOOR BEAM

STRINGER SPAN DESIGNATION IS FROM CENTER LINE FLOOR BEAM TO CENTER LINE FLOOR BEAM OR CENTER LINE STRINGER BEARINGS AS THE CASE MAY BE.

TABULATED DISTANCES ARE MEASURED FROM CENTER LINE FLOOR BEAM OR CENTER LINE STRINGER BEARING AT WEST IN EACH SPAN ALONG CENTER LINE OF STRINGERS.

TABULATED ELEVATIONS ARE FOR TOP OF CONCRETE SLAB ALONG CENTER LINE OF STRINGERS AND NOT TOP OF THE ROADWAY.

NORMAL OFFSETS ARE MEASURED FROM THE PROFILE GRADE LINE.

POSITIVE OFFSETS ARE IN THE DIRECTION AWAY FROM CENTER LINE OF STRUCTURE AND NEGATIVE OFFSETS ARE TOWARD THE CENTER LINE OF STRUCTURE.

TABULATED DEAD LOAD DEFLECTIONS ARE THE TOTAL ARCH RIB, HANGER ELONGATION, FLOOR BEAM AND STRINGER DEFLECTIONS DUE TO CONCRETE AND WEARING SURFACE ONLY.

POSITIVE DEFLECTION INDICATES DOWNWARD DEFLECTION.

WORK THIS SHEET WITH SHEETS NO. 21 THROUGH 25.

SPAN (L <sub>4</sub> - L <sub>5</sub> )					SPAN (L <sub>5</sub> - L <sub>6</sub> ) & BRGS. STRINGER					SPAN (L <sub>6</sub> - L <sub>7</sub> )					SPAN (L <sub>7</sub> - L <sub>7</sub> )								
DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
0.00	S1	32.500	618.147	0.253	618.400	0.00	S1	32.500	618.207	0.296	618.503	0.00	S1	32.500	618.248	0.327	618.575	0.00	S1	32.500	618.268	0.343	618.611
10.00		32.500	618.164	0.267	618.432	10.00		32.500	618.220	0.308	618.528	10.00		32.500	618.255	0.334	618.589	10.00		32.500	618.270	0.346	618.616
20.00		32.500	618.181	0.280	618.461	20.00		32.500	618.231	0.320	618.552	20.00		32.500	618.261	0.340	618.601	20.00		32.500	618.270	0.347	618.618
30.00		32.500	618.196	0.288	618.485	30.00		32.500	618.241	0.326	618.567	30.00		32.500	618.265	0.341	618.607	30.00		32.500	618.270	0.345	618.615
37.99		32.500	618.207	0.296	618.503	37.58		32.500	618.247	0.326	618.574	37.99		32.500	618.268	0.343	618.611	37.99		32.500	618.268	0.343	618.612
0.00	S2	25.250	618.260	0.269	618.529	0.00	S2	25.250	618.320	0.311	618.632	0.00	S2	25.250	618.361	0.342	618.703	0.00	S2	25.250	618.381	0.359	618.740
10.00		25.250	618.278	0.283	618.561	10.00		25.250	618.333	0.324	618.657	10.00		25.250	618.368	0.349	618.718	10.00		25.250	618.383	0.361	618.745
20.00		25.250	618.294	0.296	618.590	20.00		25.250	618.344	0.337	618.682	20.00		25.250	618.374	0.355	618.730	20.00		25.250	618.383	0.363	618.747
30.00		25.250	618.309	0.304	618.614	30.00		25.250	618.354	0.343	618.698	30.00		25.250	618.378	0.357	618.736	30.00		25.250	618.383	0.361	618.744
37.99		25.250	618.320	0.311	618.632	37.58		25.250	618.360	0.344	618.705	37.99		25.250	618.381	0.359	618.740	37.99		25.250	618.381	0.359	618.740
0.00	S3	18.000	618.373	0.281	618.655	0.00	S3	18.000	618.433	0.324	618.758	0.00	S3	18.000	618.474	0.355	618.829	0.00	S3	18.000	618.494	0.371	618.866
10.00		18.000	618.391	0.295	618.686	10.00		18.000	618.446	0.336	618.783	10.00		18.000	618.481	0.362	618.844	10.00		18.000	618.496	0.374	618.871
20.00		18.000	618.407	0.308	618.716	20.00		18.000	618.457	0.349	618.807	20.00		18.000	618.487	0.368	618.856	20.00		18.000	618.497	0.376	618.873
30.00		18.000	618.422	0.317	618.740	30.00		18.000	618.467	0.355	618.822	30.00		18.000	618.491	0.370	618.862	30.00		18.000	618.496	0.373	618.870
37.99		18.000	618.433	0.324	618.758	37.58		18.000	618.473	0.355	618.828	37.99		18.000	618.494	0.371	618.866	37.					

# WESTBOUND OR EASTBOUND ROADWAY

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	46
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	

SPAN (L7) - (L6)						SPAN (L6) & BRGS. STRINGER - (L5)						SPAN (L5) - (L4)						SPAN (L4) - (L3)					
DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
0.00	S1	32.500	618.268	0.343	618.612	0.00	S1	32.500	618.247	0.327	618.575	0.00	S1	32.500	618.207	0.296	618.504	0.00	S1	32.500	618.147	0.254	618.401
10.00		32.500	618.264	0.342	618.607	10.00		32.500	618.239	0.326	618.565	10.00		32.500	618.193	0.288	618.482	10.00		32.500	618.127	0.243	618.371
20.00		32.500	618.260	0.339	618.599	20.00		32.500	618.228	0.318	618.547	20.00		32.500	618.178	0.279	618.457	20.00		32.500	618.106	0.231	618.338
30.00		32.500	618.254	0.332	618.587	30.00		32.500	618.217	0.305	618.523	30.00		32.500	618.161	0.265	618.426	30.00		32.500	618.084	0.215	618.300
37.99		32.500	618.248	0.327	618.575	37.58		32.500	618.207	0.296	618.504	37.99		32.500	618.147	0.254	618.401	37.99		32.500	618.066	0.202	618.268
0.00	S2	25.250	618.381	0.359	618.740	0.00	S2	25.250	618.360	0.342	618.703	0.00	S2	25.250	618.320	0.312	618.633	0.00	S2	25.250	618.260	0.270	618.530
10.00		25.250	618.378	0.357	618.735	10.00		25.250	618.352	0.342	618.694	10.00		25.250	618.306	0.304	618.610	10.00		25.250	618.240	0.259	618.500
20.00		25.250	618.373	0.355	618.728	20.00		25.250	618.342	0.334	618.676	20.00		25.250	618.291	0.294	618.586	20.00		25.250	618.220	0.247	618.467
30.00		25.250	618.367	0.348	618.715	30.00		25.250	618.330	0.321	618.651	30.00		25.250	618.274	0.281	618.555	30.00		25.250	618.197	0.230	618.428
37.99		25.250	618.361	0.343	618.704	37.58		25.250	618.320	0.312	618.633	37.99		25.250	618.260	0.270	618.530	37.99		25.250	618.179	0.217	618.397
0.00	S3	18.000	618.494	0.372	618.866	0.00	S3	18.000	618.473	0.355	618.829	0.00	S3	18.000	618.433	0.325	618.759	0.00	S3	18.000	618.373	0.283	618.656
10.00		18.000	618.491	0.370	618.861	10.00		18.000	618.465	0.355	618.820	10.00		18.000	618.419	0.316	618.736	10.00		18.000	618.353	0.272	618.625
20.00		18.000	618.486	0.368	618.854	20.00		18.000	618.455	0.347	618.802	20.00		18.000	618.404	0.307	618.712	20.00		18.000	618.333	0.260	618.593
30.00		18.000	618.480	0.361	618.841	30.00		18.000	618.443	0.334	618.777	30.00		18.000	618.387	0.293	618.681	30.00		18.000	618.311	0.243	618.554
37.99		18.000	618.474	0.356	618.830	37.58		18.000	618.433	0.325	618.759	37.99		18.000	618.373	0.283	618.656	37.99		18.000	618.292	0.230	618.523
0.00	S4	10.750	618.607	0.381	618.988	0.00	S4	10.750	618.587	0.364	618.951	0.00	S4	10.750	618.546	0.334	618.881	0.00	S4	10.750	618.486	0.292	618.778
10.00		10.750	618.604	0.379	618.984	10.00		10.750	618.578	0.364	618.942	10.00		10.750	618.532	0.326	618.859	10.00		10.750	618.467	0.281	618.748
20.00		10.750	618.599	0.377	618.976	20.00		10.750	618.568	0.356	618.925	20.00		10.750	618.517	0.316	618.834	20.00		10.750	618.446	0.269	618.715
30.00		10.750	618.593	0.370	618.963	30.00		10.750	618.556	0.343	618.899	30.00		10.750	618.500	0.303	618.803	30.00		10.750	618.424	0.252	618.677
37.99		10.750	618.587	0.365	618.952	37.58		10.750	618.546	0.334	618.881	37.99		10.750	618.486	0.292	618.778	37.99		10.750	618.405	0.239	618.645
0.00	S5	3.500	618.720	0.388	619.109	0.00	S5	3.500	618.700	0.372	619.072	0.00	S5	3.500	618.660	0.341	619.001	0.00	S5	3.500	618.599	0.299	618.898
10.00		3.500	618.717	0.386	619.104	10.00		3.500	618.691	0.371	619.062	10.00		3.500	618.646	0.333	618.979	10.00		3.500	618.580	0.288	618.868
20.00		3.500	618.712	0.384	619.097	20.00		3.500	618.681	0.364	619.045	20.00		3.500	618.630	0.323	618.954	20.00		3.500	618.559	0.276	618.835
30.00		3.500	618.706	0.377	619.084	30.00		3.500	618.669	0.350	619.020	30.00		3.500	618.613	0.310	618.924	30.00		3.500	618.537	0.260	618.797
37.99		3.500	618.700	0.372	619.072	37.58		3.500	618.660	0.341	619.001	37.99		3.500	618.599	0.299	618.898	37.99		3.500	618.518	0.247	618.765
0.00	S6	-3.750	618.833	0.391	619.225	0.00	S6	-3.750	618.813	0.375	619.188	0.00	S6	-3.750	618.773	0.344	619.117	0.00	S6	-3.750	618.712	0.302	619.014
10.00		-3.750	618.830	0.389	619.220	10.00		-3.750	618.804	0.373	619.178	10.00		-3.750	618.759	0.336	619.095	10.00		-3.750	618.693	0.291	618.984
20.00		-3.750	618.825	0.387	619.212	20.00		-3.750	618.794	0.366	619.160	20.00		-3.750	618.743	0.326	619.070	20.00		-3.750	618.672	0.279	618.951
30.00		-3.750	618.819	0.380	619.200	30.00		-3.750	618.782	0.353	619.136	30.00		-3.750	618.726	0.313	619.040	30.00		-3.750	618.650	0.262	618.913
37.99		-3.750	618.813	0.375	619.189	37.58		-3.750	618.773	0.344	619.117	37.99		-3.750	618.712	0.302	619.014	37.99		-3.750	618.631	0.250	618.881

SPAN (L3) & BRGS. STRINGER - (L2)						SPAN (L2) - (L1)						SPAN (L1) - (L0)					
DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
0.00	S1	32.500	618.065	0.201	618.266	0.00	S1	32.500	617.965	0.139	618.104	0.00	S1	32.500	617.843	0.072	617.916
10.00		32.500	618.040	0.192	618.232	10.00		32.500	617.935	0.124	618.059	10.00		32.500	617.808	0.056	617.865
20.00		32.500	618.014	0.176	618.190	20.00		32.500	617.903	0.108	618.012	20.00		32.500	617.771	0.040	617.812
30.00		32.500	617.986	0.154	618.141	30.00		32.500	617.871	0.088	617.959	30.00		32.500	617.733	0.019	617.753
37.58		32.500	617.965	0.139	618.104	37.99		32.500	617.843	0.072	617.916	37.99		32.500	617.702	0.003	617.705
0.00	S2	25.250	618.178	0.217	618.395	0.00	S2	25.250	618.078	0.155	618.233	0.00	S2	25.250	617.956	0.088	618.045
10.00		25.250	618.153	0.208	618.362	10.00		25.250	618.048	0.140	618.188	10.00		25.250	617.921	0.069	617.991
20.00		25.250	618.127	0.192	618.320	20.00		25.250	618.016	0.124	618.141	20.00		25.250	617.884	0.050	617.935
30.00		25.250	618.099	0.170	618.270	30.00		25.250	617.984	0.104	618.088	30.00		25.250	617.846	0.026	617.873
37.58		25.250	618.078	0.155	618.233	37.99		25.250	617.956	0.088	618.045	37.99		25.250	617.815	0.007	617.822
0.00	S3	18.000	618.291	0.230	618.521	0.00	S3	18.000	618.191	0.168	618.359	0.00	S3	18.000	618.069	0.101	618.170
10.00		18.000	618.266	0.221	618.487	10.00		18.000	618.161	0.153	618.314	10.00		18.000	618.034	0.080	618.114
20.00		18.000	618.240	0.205	618.445	20.00		18.000	618.129	0.137	618.267	20.00		18.000	617.998	0.058	618.056
30.00		18.000	618.213	0.183	618.396	30.00		18.000	618.097	0.117	618.214	30.00		18.000	617.959	0.032	617.939
37.58		18.000	618.191	0.168	618.359	37.99		18.000	618.069	0.101	618.170	37.99		18.000	617.928	0.011	617.939
0.00	S4	10.750	618.404	0.239	618.643	0.00	S4	10.750	618.304	0.177	618.481	0.00	S4	10.750	618.183	0.110	618.293
10.00		10.750	618.379	0.230	618.610	10.00		10.750	618.274	0.162	618.436	10.00		10.750	618.147	0.087	618.235
20.00		10.750	618.353	0.214	618.568	20.00		10.750	618.243	0.146	618.389	20.00		10.750	618.111	0.064	618.175
30.00		10.750	618.326	0.192	618.518	30.00		10.750	618.210	0.126	618.336	30.00		10.750	618.073	0.036	618.109
37.58		10.750	618.304	0.177	618.481	37.99		10.750	618.183	0.110	618.293	37.99		10.750	618.041	0.014	618.055
0.00	S5	3.500	618.517	0.246	618.763	0.00	S5	3.500	618.417	0.184	618.601	0.00	S5	3.500	618.296	0.117	618.413
10.00		3.500	618.492	0.237	618.730	10.00		3.500	618.387	0.169	618.557	10.00		3.500	618.260	0.093	618.354
20.00		3.500	618.466	0.221	618.688	20.00		3.500	618.356	0.							



# WESTBOUND OR EASTBOUND ROADWAY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	47
FED. ROAD DIST. NO.		FED. AID PROJECT 1-280		

SPAN 15					SPAN 16					SPAN 17							
DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
0.00		32.500	617.688	0.000	617.688												
9.99		32.500	617.647	0.068	617.715												
19.99		32.500	617.604	0.132	617.737												
29.99		32.500	617.560	0.192	617.753												
39.99		32.500	617.515	0.244	617.759												
49.99		32.500	617.468	0.289	617.758												
59.99		32.500	617.420	0.324	617.744												
69.99		32.500	617.371	0.349	617.720												
79.99		32.500	617.320	0.363	617.683												
89.99		32.500	617.268	0.367	617.635												
99.99		32.500	617.214	0.360	617.574												
109.99		32.500	617.159	0.343	617.502												
119.99		32.500	617.102	0.317	617.419												
129.99		32.500	617.044	0.282	617.326												
139.99		32.500	616.985	0.242	617.227												
149.99		32.500	616.924	0.198	617.122												
159.99		32.500	616.862	0.151	617.013												
169.99		32.500	616.799	0.105	616.904												
179.99		32.500	616.734	0.063	616.797												
189.99		32.500	616.668	0.026	616.694												
0.00		23.500	617.828	0.008	617.897												
9.99		23.500	617.787	0.052	617.970												
19.99		23.500	617.745	0.102	618.047												
29.99		23.500	617.701	0.152	618.128												
39.99		23.500	617.655	0.205	618.213												
49.99		23.500	617.609	0.260	618.301												
59.99		23.500	617.561	0.316	618.392												
69.99		23.500	617.511	0.370	618.486												
79.99		23.500	617.460	0.424	618.582												
89.99		23.500	617.408	0.474	618.680												
99.99		23.500	617.354	0.524	618.779												
109.99		23.500	617.299	0.569	618.879												
119.99		23.500	617.243	0.612	618.979												
129.99		23.500	617.185	0.652	619.079												
139.99		23.500	617.125	0.688	619.179												
149.99		23.500	617.065	0.721	619.279												
159.99		23.500	617.003	0.750	619.379												
169.99		23.500	616.939	0.775	619.479												
179.99		23.500	616.874	0.796	619.579												
189.99		23.500	616.808	0.812	619.679												
0.00		14.500	617.969	0.012	617.981												
9.99		14.500	617.927	0.089	618.017												
19.99		14.500	617.885	0.161	618.074												
29.99		14.500	617.841	0.224	618.146												
39.99		14.500	617.796	0.280	618.229												
49.99		14.500	617.749	0.327	618.321												
59.99		14.500	617.701	0.364	618.421												
69.99		14.500	617.652	0.389	618.527												
79.99		14.500	617.601	0.404	618.639												
89.99		14.500	617.548	0.408	618.756												
99.99		14.500	617.495	0.398	618.877												
109.99		14.500	617.440	0.378	618.999												
119.99		14.500	617.383	0.349	619.122												
129.99		14.500	617.325	0.311	619.245												
139.99		14.500	617.266	0.266	619.368												
149.99		14.500	617.205	0.217	619.491												
159.99		14.500	617.143	0.166	619.614												
169.99		14.500	617.080	0.115	619.737												
179.99		14.500	617.015	0.069	619.860												
189.99		14.500	616.948	0.029	619.983												
0.00		5.500	618.109	0.008	618.117												
9.99		5.500	618.068	0.082	618.150												
19.99		5.500	618.025	0.152	618.177												
29.99		5.500	617.981	0.212	618.194												
39.99		5.500	617.936	0.265	618.202												
49.99		5.500	617.889	0.310	618.200												
59.99		5.500	617.841	0.346	618.188												
69.99		5.500	617.792	0.370	618.163												
79.99		5.500	617.741	0.384	618.128												
89.99		5.500	617.689	0.387	618.074												
99.99		5.500	617.635	0.379	618.014												
109.99		5.500	617.580	0.360	617.941												
119.99		5.500	617.523	0.332	617.856												
129.99		5.500	617.466	0.296	617.762												
139.99		5.500	617.406	0.254	617.661												
149.99		5.500	617.346	0.207	617.553												
159.99		5.500	617.284	0.158	617.442												
169.99		5.500	617.220	0.110	617.330												
179.99		5.500	617.155	0.066	617.221												
189.99		5.500	617.089	0.027	617.117												
0.00		-3.500	618.249	0.000	618.249												
9.99		-3.500	618.208	0.068	618.276												
19.99		-3.500	618.166	0.132	618.298												
29.99		-3.500	618.122	0.192	618.314												
39.99		-3.500	618.077	0.244	618.321												
49.99		-3.500	618.030	0.289	618.319												
59.99		-3.500	617.982	0.324	618.308												
69.99		-3.500	617.932	0.349	618.281												
79.99		-3.500	617.881	0.363	618.244												
89.99		-3.500	617.829	0.367	618.196												
99.99		-3.500	617.775	0.360	618.135												
109.99		-3.500	617.720	0.343	618.063												
119.99		-3.500	617.664	0.317	617.981												
129.99		-3.500	617.606	0.282	617.888												
139.99		-3.500	617.547	0.242	617.789												
149.99		-3.500	617.486	0.198	617.684												
159.99		-3.500	617.424	0.151	617.575												
169.99		-3.500	617.360	0.105	617.465												
179.99		-3.500	617.296	0.063	617.359												
189.99		-3.500	617.229	0.026	617.255												

**NOTES:**  
 TABULATED DEAD LOAD DEFLECTIONS IN THIS UNIT INCLUDE DEAD LOAD OF CONCRETE SLAB, PARAPETS AND CURBS AND WEARING SURFACE.  
 FOR ADDITIONAL NOTES, SEE SHEET NO. 41.  
 WORK THIS SHEET WITH SHEETS NO. 12 AND 56.

**DE LEUW, CATHER & COMPANY ENGINEERS**  
 DESIGNED BY W. Y. HUO  
 DRAWN BY M. VADKERTY & H. de PERCZEL  
 CHECKED A. MILUNAS  
 IN CHARGE W. J. ZAPFEL  
 APPROVED W. G. HORN

**SUPERSTRUCTURE - UNIT 6**  
**DECK ELEVATIONS**  
 F.A.I. ROUTE 280 SECTION 81-ID  
 I-280 OVER MISSISSIPPI RIVER  
**SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.**  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970

# WESTBOUND OR EASTBOUND ROADWAY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	48
FED. ROAD DIST. NO.	FED. AID PROJECT 1-280			

SPAN 18					SPAN 19					SPAN 20							
DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
0.00		32.500	612.719	0.000	612.719												
9.99		32.500	612.594	0.051	612.646												
19.99		32.500	612.467	0.098	612.565												
29.99		32.500	612.339	0.137	612.477												
39.99		32.500	612.210	0.166	612.376												
49.99		32.500	612.079	0.187	612.266												
59.99		32.500	611.946	0.198	612.145												
69.99	A OR K	32.500	611.812	0.198	612.011												
79.99		32.500	611.677	0.190	611.867												
89.99		32.500	611.541	0.173	611.715												
99.99		32.500	611.403	0.147	611.413												
109.99		32.500	611.263	0.116	611.380												
119.99		32.500	611.123	0.081	611.006												
129.99		32.500	610.980	0.048	611.029												
139.99		32.500	610.837	0.020	610.857												
149.99		32.500	610.692	0.000	610.692												
0.00		23.500	612.860	0.000	612.860												
9.99		23.500	612.734	0.053	612.788												
19.99		23.500	612.608	0.103	612.711												
29.99		23.500	612.480	0.145	612.625												
39.99		23.500	612.350	0.176	612.526												
49.99		23.500	612.219	0.197	612.417												
59.99		23.500	612.087	0.209	612.296												
69.99	B OR J	23.500	611.953	0.209	612.163												
79.99		23.500	611.818	0.200	612.018												
89.99		23.500	611.684	0.182	611.864												
99.99		23.500	611.543	0.155	611.699												
109.99		23.500	611.404	0.122	611.526												
119.99		23.500	611.263	0.086	611.349												
129.99		23.500	611.121	0.051	611.172												
139.99		23.500	610.977	0.021	610.999												
149.99		23.500	610.832	0.000	610.832												
0.00		14.500	613.000	0.000	613.000												
9.99		14.500	612.875	0.056	612.931												
19.99		14.500	612.748	0.108	612.856												
29.99		14.500	612.620	0.152	612.772												
39.99		14.500	612.490	0.184	612.674												
49.99		14.500	612.359	0.206	612.566												
59.99		14.500	612.227	0.219	612.447												
69.99	C OR H	14.500	612.093	0.219	612.313												
79.99		14.500	611.958	0.209	612.168												
89.99		14.500	611.822	0.190	612.012												
99.99		14.500	611.684	0.162	611.846												
109.99		14.500	611.544	0.128	611.672												
119.99		14.500	611.403	0.090	611.494												
129.99		14.500	611.261	0.053	611.315												
139.99		14.500	611.118	0.022	611.140												
149.99		14.500	610.973	0.000	610.973												
0.00		5.500	613.141	0.000	613.141												
9.99		5.500	613.015	0.053	613.069												
19.99		5.500	612.889	0.103	612.992												
29.99		5.500	612.760	0.145	612.906												
39.99		5.500	612.631	0.176	612.807												
49.99		5.500	612.500	0.197	612.698												
59.99		5.500	612.367	0.209	612.577												
69.99	D OR G	5.500	612.234	0.209	612.444												
79.99		5.500	612.099	0.200	612.299												
89.99		5.500	611.962	0.182	612.144												
99.99		5.500	611.824	0.155	611.980												
109.99		5.500	611.685	0.122	611.807												
119.99		5.500	611.544	0.086	611.630												
129.99		5.500	611.402	0.051	611.453												
139.99		5.500	611.258	0.021	611.279												
149.99		5.500	611.113	0.000	611.113												
0.00		-3.500	613.281	0.000	613.281												
9.99		-3.500	613.156	0.051	613.207												
19.99		-3.500	613.029	0.098	613.127												
29.99		-3.500	612.901	0.137	613.038												
39.99		-3.500	612.771	0.166	612.938												
49.99		-3.500	612.640	0.187	612.828												
59.99		-3.500	612.508	0.198	612.707												
69.99	E OR F	-3.500	612.374	0.198	612.572												
79.99		-3.500	612.239	0.190	612.429												
89.99		-3.500	612.102	0.173	612.276												
99.99		-3.500	611.964	0.147	612.112												
109.99		-3.500	611.825	0.116	611.942												
119.99		-3.500	611.684	0.081	611.766												
129.99		-3.500	611.542	0.048	611.591												
139.99		-3.500	611.398	0.020	611.419												
149.99		-3.500	611.254	0.000	611.254												

**NOTES:**

TABULATED DEAD LOAD DEFLECTIONS FOR THIS UNIT INCLUDE DEAD LOAD OF CONCRETE SLAB, PARAPETS AND CURBS AND WEARING SURFACE.

FOR ADDITIONAL NOTES, SEE SHEET NO. 41.

WORK THIS SHEET WITH SHEETS NO. 13 AND 57.

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W. Y. HUO  
 DRAWN BY M. VADKERTY & H. de PERCZEL  
 CHECKED A. MILUNAS  
 IN CHARGE W. J. ZAPFEL  
 APPROVED W. G. HORN

**SUPERSTRUCTURE - UNIT 7  
 DECK ELEVATIONS**  
 F.A.I. ROUTE 280 SECTION 81-1D  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED DATE: NOV. 16, 1970



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	49
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		

## WESTBOUND OR EASTBOUND ROADWAY

SPAN 21						SPAN 22						SPAN 23						SPAN 24					
DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
0.00		32.500	605.654	0.000	605.654																		
10.00		32.500	605.466	0.025	605.491																		
20.00		32.500	605.276	0.046	605.322																		
30.00		32.500	605.084	0.060	605.145																		
40.00	A OR K	32.500	604.891	0.066	604.958																		
50.00		32.500	604.697	0.065	604.762																		
60.00		32.500	604.501	0.055	604.557																		
70.00		32.500	604.304	0.040	604.345																		
80.00		32.500	604.106	0.023	604.130																		
90.00		32.500	603.906	0.008	603.915																		
99.99		32.500	603.705	0.000	603.705																		
0.00		23.500	603.845	0.000	603.845																		
10.00		23.500	603.643	-0.002	603.640																		
20.00		23.500	603.438	0.001	603.440																		
30.00		23.500	603.233	0.008	603.242																		
40.00	B OR J	23.500	603.026	0.015	603.042																		
50.00		23.500	602.818	0.020	602.838																		
60.00		23.500	602.608	0.020	602.629																		
70.00		23.500	602.397	0.009	602.416																		
80.00		23.500	602.185	0.009	602.194																		
90.00		23.500	601.971	0.002	601.974																		
99.99		23.500	601.756	0.000	601.756																		
0.00		14.500	603.986	0.000	603.986																		
10.00		14.500	603.783	-0.002	603.780																		
20.00		14.500	603.579	0.001	603.580																		
30.00		14.500	603.373	0.009	603.383																		
40.00	C OR H	14.500	603.167	0.016	603.183																		
50.00		14.500	602.958	0.021	602.980																		
60.00		14.500	602.749	0.021	602.770																		
70.00		14.500	602.538	0.017	602.555																		
80.00		14.500	602.325	0.010	602.335																		
90.00		14.500	602.111	0.002	602.114																		
99.99		14.500	601.896	0.000	601.896																		
0.00		5.500	604.126	0.000	604.126																		
10.00		5.500	603.923	-0.002	603.921																		
20.00		5.500	603.719	0.001	603.721																		
30.00		5.500	603.514	0.008	603.522																		
40.00	D OR G	5.500	603.307	0.015	603.323																		
50.00		5.500	603.099	0.020	603.119																		
60.00		5.500	602.889	0.020	602.910																		
70.00		5.500	602.678	0.016	602.694																		
80.00		5.500	602.466	0.009	602.475																		
90.00		5.500	602.252	0.002	602.254																		
99.99		5.500	602.036	0.000	602.036																		
0.00		14.500	605.935	0.000	605.935																		
10.00		14.500	605.746	0.028	605.775																		
20.00		14.500	605.556	0.052	605.609																		
30.00		14.500	605.365	0.068	605.434																		
40.00	C OR H	14.500	605.172	0.076	605.248																		
50.00		14.500	604.978	0.074	605.052																		
60.00		14.500	604.782	0.063	604.846																		
70.00		14.500	604.585	0.047	604.632																		
80.00		14.500	604.387	0.027	604.414																		
90.00		14.500	604.187	0.010	604.197																		
99.99		14.500	603.986	0.000	603.986																		
0.00		5.500	606.075	0.000	606.075																		
10.00		5.500	605.887	0.027	605.914																		
20.00		5.500	605.697	0.049	605.747																		
30.00		5.500	605.505	0.065	605.571																		
40.00	D OR G	5.500	605.312	0.072	605.365																		
50.00		5.500	605.118	0.070	605.189																		
60.00		5.500	604.923	0.060	604.983																		
70.00		5.500	604.726	0.044	604.770																		
80.00		5.500	604.527	0.026	604.553																		
90.00		5.500	604.327	0.009	604.337																		
99.99		5.500	604.126	0.000	604.126																		
0.00		-3.500	606.216	0.000	606.216																		
10.00		-3.500	606.027	0.025	606.052																		
20.00		-3.500	605.837	0.046	605.883																		
30.00		-3.500	605.646	0.060	605.706																		
40.00	E OR F	-3.500	605.453	0.066	605.520																		
50.00		-3.500	605.259	0.065	605.324																		
60.00		-3.500	605.063	0.055	605.119																		
70.00		-3.500	604.866	0.040	604.907																		
80.00		-3.500	604.667	0.023	604.691																		
90.00		-3.500	604.468	0.008	604.476																		
99.99		-3.500	604.266	0.000	604.266																		
0.00		-3.500	604.266	0.000	604.266																		
10.00		-3.500	604.064	-0.002	604.061																		
20.00		-3.500	603.860	0.000	603.860																		
30.00		-3.500	603.654	0.007	603.662																		
40.00	E OR F	-3.500	603.447	0.014	603.462																		
50.00		-3.500	603.239	0.018	603.258																		
60.00		-3.500	603.029	0.018	603.048																		
70.00		-3.500	602.818	0.015	602.833																		
80.00		-3.500	602.606	0.008	602.615																		
90.00		-3.500	602.392	0.002	602.395																		
99.99		-3.500	602.177	0.000	602.177																		

**NOTES:**

TABULATED DEAD LOAD DEFLECTIONS FOR THIS UNIT INCLUDE DEAD LOAD OF SLAB ONLY. DEFLECTIONS DUE TO SUPERIMPOSED DEAD LOAD ON COMPOSITE SECTION ARE INSIGNIFICANT.

FOR ADDITIONAL NOTES, SEE SHEET NO. 41.

WORK THIS SHEET WITH SHEETS NO. 33 THROUGH NO. 35 AND NO. 58.

DE LEUW, CATHER & COMPANY ENGINEERS  
 DESIGNED BY W. Y. HUO  
 DRAWN BY M. VADKERTY & H. de PERCZEL  
 CHECKED A. MILUNAS  
 IN CHARGE W. J. ZAPFEL  
 APPROVED W. G. HORN

**SUPERSTRUCTURE - UNIT 8**  
**DECK ELEVATIONS**  
 F.A.I. ROUTE 280 SECTION 81-ID  
 I-280 OVER MISSISSIPPI RIVER  
 SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
 STA. 11 + 11.38 TO STA. 53 + 04.38  
 SCALE: AS NOTED      DATE: NOV. 16, 1970

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-10	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	50
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			

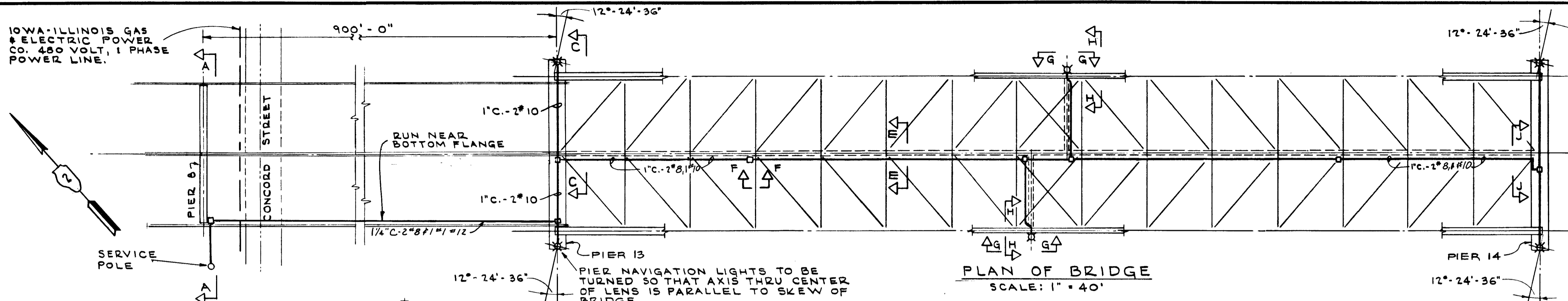
# WESTBOUND OR EASTBOUND ROADWAY

SPAN 25						SPAN 26						SPAN 27						SPAN 28					
DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION	DISTANCE FROM SUPPORT (FT)	BEAM NO.	NORMAL OFFSET (FEET)	THEORETICAL GRADE ELEVATION	DEAD LOAD DEFLECTION (FEET)	THEO. ELEV. ADJ FOR DEFLECTION
0.00	A OR K	32.500	596.967	0.000	596.967																		
10.00		32.500	596.723	0.025	596.748																		
20.00		32.500	596.476	0.046	596.523																		
30.00		32.500	596.228	0.061	596.290																		
40.00		32.500	595.979	0.067	596.047																		
50.00		32.500	595.729	0.065	595.794																		
60.00		32.500	595.477	0.056	595.533																		
70.00		32.500	595.224	0.041	595.285																		
80.00		32.500	594.969	0.023	594.993																		
90.00		32.500	594.713	0.008	594.721																		
99.99	32.500	594.455	0.000	594.455																			
0.00	B OR J	23.500	597.108	0.000	597.108																		
10.00		23.500	596.863	0.027	596.891																		
20.00		23.500	596.617	0.050	596.667																		
30.00		23.500	596.369	0.066	596.435																		
40.00		23.500	596.120	0.073	596.193																		
50.00		23.500	595.869	0.071	595.940																		
60.00		23.500	595.617	0.061	595.678																		
70.00		23.500	595.364	0.045	595.409																		
80.00		23.500	595.109	0.026	595.136																		
90.00		23.500	594.853	0.009	594.863																		
99.99	23.500	594.596	0.000	594.596																			
0.00	C OR H	14.500	597.248	0.000	597.248																		
10.00		14.500	597.003	0.029	597.033																		
20.00		14.500	596.757	0.053	596.810																		
30.00		14.500	596.509	0.069	596.579																		
40.00		14.500	596.260	0.077	596.337																		
50.00		14.500	596.010	0.074	596.085																		
60.00		14.500	595.758	0.064	595.822																		
70.00		14.500	595.504	0.047	595.552																		
80.00		14.500	595.250	0.027	595.277																		
90.00		14.500	594.993	0.010	595.004																		
99.99	14.500	594.736	0.000	594.736																			
0.00	D OR G	5.500	597.389	0.000	597.389																		
10.00		5.500	597.144	0.027	597.172																		
20.00		5.500	596.897	0.050	596.948																		
30.00		5.500	596.650	0.066	596.716																		
40.00		5.500	596.401	0.073	596.474																		
50.00		5.500	596.150	0.071	596.221																		
60.00		5.500	595.898	0.061	595.959																		
70.00		5.500	595.645	0.045	595.690																		
80.00		5.500	595.390	0.026	595.416																		
90.00		5.500	595.134	0.009	595.144																		
99.99	5.500	594.876	0.000	594.876																			
0.00	E OR F	-3.500	597.529	0.000	597.529																		
10.00		-3.500	597.284	0.025	597.310																		
20.00		-3.500	597.038	0.046	597.085																		
30.00		-3.500	596.790	0.061	596.851																		
40.00		-3.500	596.541	0.067	596.608																		
50.00		-3.500	596.290	0.065	596.356																		
60.00		-3.500	596.038	0.056	596.095																		
70.00		-3.500	595.785	0.041	595.826																		
80.00		-3.500	595.530	0.023	595.554																		
90.00		-3.500	595.274	0.008	595.283																		
99.99	-3.500	595.017	0.000	595.017																			
0.00	A OR K	32.500	594.455	0.000	594.455																		
10.00		32.500	594.196	-0.002	594.194																		
20.00		32.500	593.936	0.000	593.936																		
30.00		32.500	593.674	0.007	593.682																		
40.00		32.500	593.411	0.014	593.425																		
50.00		32.500	593.147	0.018	593.165																		
60.00		32.500	592.881	0.018	592.899																		
70.00		32.500	592.613	0.015	592.628																		
80.00		32.500	592.345	0.008	592.353																		
90.00		32.500	592.074	0.002	592.077																		
99.99	32.500	591.803	0.000	591.803																			
0.00	B OR J	23.500	594.596	0.000	594.596																		
10.00		23.500	594.337	-0.002	594.334																		
20.00		23.500	594.076	0.001	594.078																		
30.00		23.500	593.815	0.008	593.823																		
40.00		23.500	593.551	0.015	593.567																		
50.00		23.500	593.287	0.020	593.307																		
60.00		23.500	593.021	0.020	593.042																		
70.00		23.500	592.754	0.016	592.770																		
80.00		23.500	592.485	0.009	592.495																		
90.00		23.500	592.215	0.002	592.218																		
99.99	23.500	591.943	0.000	591.943																			
0.00	C OR H	14.500	594.736	0.000	594.736																		
10.00		14.500	594.477	-0.002	594.474																		
20.00		14.500	594.217	0.001	594.218																		
30.00		14.500	593.955	0.009	593.964																		
40.00		14.500	593.692	0.016	593.709																		
50.00		14.500	593.427	0.021	593.449																		
60.00		14.500	593.161	0.021	593.183																		
70.00		14.500	592.894	0.017	592.911																		
80.00		14.500	592.625	0.010	592.635																		
90.00		14.500	592.355	0.002	592.358																		
99.99	14.500	592.084	0.000	592.084																			
0.00	D OR G	5.500	594.876	0.000	594.876																		
10.00		5.500	594.617	-0.002	594.615																		
20.00		5.500	594.357	0.001	594.358																		
30.00		5.500	594.095	0.008	594.104																		
40.00		5.500	593.832	0.015	593.848																		
50.00		5.500	593.568	0.020	593.588																		
60.00		5.500	593.302	0.020	593.322																		
70.00		5.500	593.034	0.016	593.051																		
80.00		5.500	592.766	0.009	592.775																		
90.00		5.500	592.496	0.002	592.498																		
99.99	5.500	592.224	0.000	592.224																			
0.00	E OR F	-3.500	595.017	0.000	595.017																		
10.00		-3.500	594.758	-0.002	594.755																		
20.00		-3.500	594.498	0.000	594.498																		
30.00		-3.500	594.236	0.007	594.243																		
40.00		-3.500	593.973	0.014	593.987																		
50.00		-3.500	593.708	0.018	593.727																		
60.00		-3.500	593.442	0.018	593.461																		
70.00		-3.500	593.175	0.015	593.190																		
80.00		-3.500	592.906	0.008	592.915																		
90.00		-3.500	592.636	0.002	592.638																		
99.99	-3.500	592.364	0.000	592.364																			
0.00	A OR K	32.500	591.803	0.000	591.803																		
10.00		32.500	591.530	0.002	591.532																		
20.00		32.500	591.256	0.008	591.264																		
30.00		32.500	590.980	0.016	590.994																		
40.00		32.500	590.703	0.018	590.721																		
50.00		32.500	590.424	0.017	590.442																		
60.00		32.500	590.144	0.013	590.158																		
70.00		32.500	589.863	0.006	589.869																		
80.00		32.500	589.580	0.000	589.581																		
90.00		32.500	589.296	-0.004	589.292																		
99.99	32.500	589.011	0.000	589.011																			
0.00	B OR J	23.500	591.943	0.000	591.943																		
10.00		23.500	591.670	0.002	591.673																		
20.00		23.500	591.396	0.009	591.405																		
30.00		23.500	591.120	0.015	591.136																		
40.00		23.500	590.843	0.019	590.863																		
50.00		23.500	590.565	0.019	590.584																		
60.00		23.500	590.285	0.014	590.300																		
70.00		23.500	590.003	0.007	590.011																		
80.00		23.500	589.721	-0.000	589.721																		
90.00		23.500	589.437	-0.004	589.433																		
99.99	23.500	589.151	0.000	589.151																			
0.00	C OR H	14.500	592.084	0.000	592.084																		
10.00		14.500	591.811	0.002	591.813																		
20.00		14.500	591.536	0.009	591.546																		
30.00		14.500	591.261	0.016	591.278																		
40.00		14.500	590.984	0.020	591.005																		
50.00		14.500	590.705	0.020	590.726																		
60.00		14.500	590.425	0.015	590.441																		
70.00		14.500	590.144	0.007	590.152																		
80.00		14.500	589.861	-0.000	589.861																		
90.00		14.500	589.577	-0.004	589.573																		
99.99	14.500	589.291	0.000	589.291																			
0.00	D OR G	5.500	592.224	0.000	592.224																		
10.00		5.500	591.951	0.002	591.954																		
20.00		5.500	591.677	0.009	591.686																		
30.00		5.500	591.401	0.015	591.417																		
40.00		5.500	591.124	0.019	591.144																		
50.00		5.500	590.845	0.019	590.865																		
60.00		5.500	590.565	0.014	590.580																		
70.00		5.500	590.284	0.007	590.292																		
80.00		5.500	590.001	-0.000	590.001																		
90.00		5.500	589.717	-0.004	589.713																		
99.99	5.500	589.432	0.000	589.432																			
0.00	E OR F	-3.500	592.364	0.000	592.364																		
10.00		-3.500	592.092	0.002	592.094																		
20.00		-3.500	591.817	0.008	591.826																		
30.00		-3.500	591.541	0.014	591.556																		
40.00		-3.500	591.264	0.018	591.282																		
50.00		-3.500	590.986	0.017	591.003																		
60.00		-3.500	590.706	0.013	590.719																		
70.00		-3.500	590.425	0.006	590.431																		
80.00		-3.500	590.142	0.000	590.141																		
90.00		-3.500	589.858	-0.004	589.854																		
99.99	-3.500	589.572	0.000	589.572																			
0.00	A OR K	32.500	589.011	0.000	589.011																		
10.00		32.500	588.724	0.009	588.734																		
20.00		32.500	588.435	0.025	588.460																		
30.00		32.500	588.146	0.042	588.188																		
40.00		32.500	587.854	0.057	587.912																		
50.00		32.500	587.562	0.066	587.628																		
60.00		32.500	587.268	0.068	587.336																		
70.00		32.500	586.973	0.061	587.034																		
80.00		32.500	586.676	0.047	586.723																		
90.00		32.500	586.378	0.025	586.404																		
99.99	32.500	586.078	0.000	586.078																			
0.00	B OR J	23.500	589.151	0.000	589.151																		
10.00		23.500	588.864	0.011	588.875																		
20.00		23.500	588.576	0.027	588.603																		
30.00		23.500	588.286	0.046	588.332																		
40.00		23.500	587.995	0.061	588.057																		
50.00		23.500	587.702	0.071	587.774																		
60.00		23.500	587.408	0.073	587.482																		
70.00		23.500	587.113	0.066	587.180																		
80.00		23.500	586.816	0.050	586.867																		
90.00		23.500	586.518	0.028	586.546																		
99.99	23.500	586.219	0.000	586.219																			
0.00	C OR H	14.500	589.291	0.000	589.291																		
10.00		14.500	589.004	0.011	589.016																		
20.00		14.500	588.716	0.029	588.745																		
30.00		14.500	588.426	0.048	588.475																		
40.00		14.500	588.135	0.065	588.201																		
50.00		14.																					

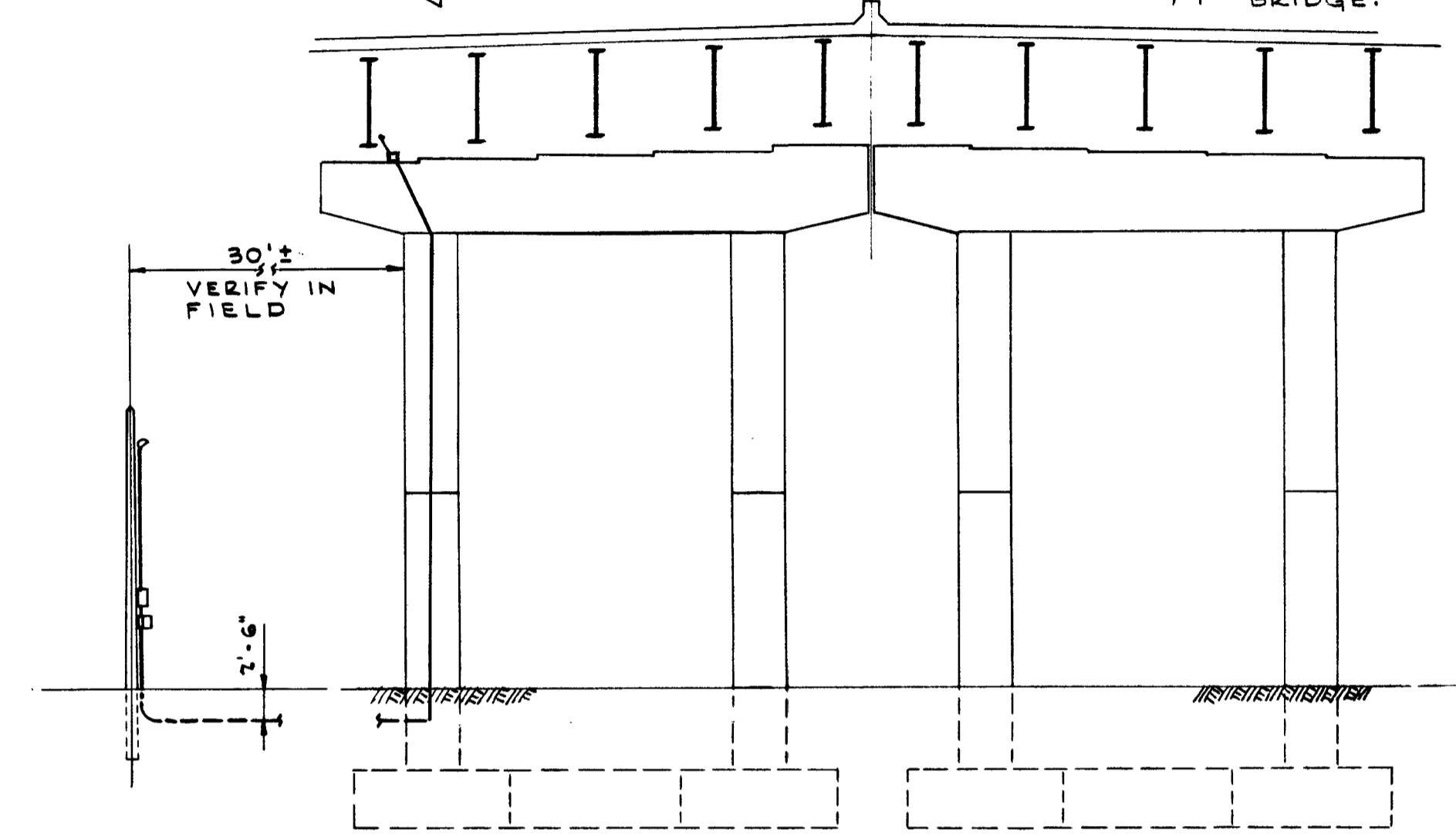


IOWA-ILLINOIS GAS & ELECTRIC POWER CO. 480 VOLT, 1 PHASE POWER LINE.

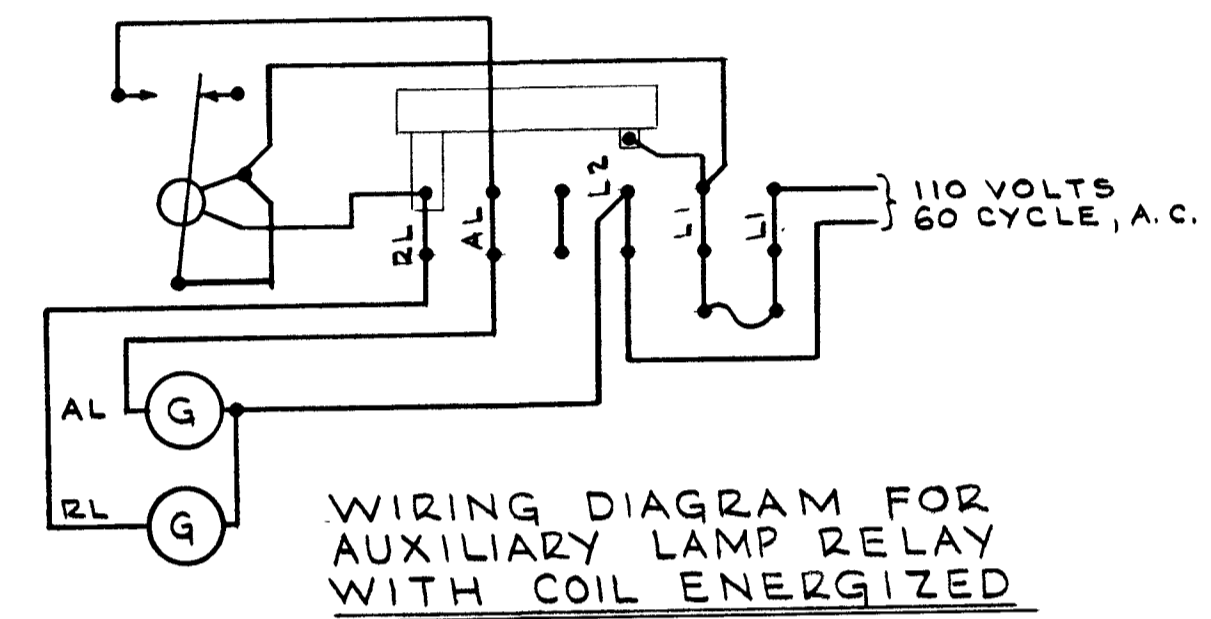
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	51
FED. ROAD DIST. NO. FED. AID PROJECT I-280				



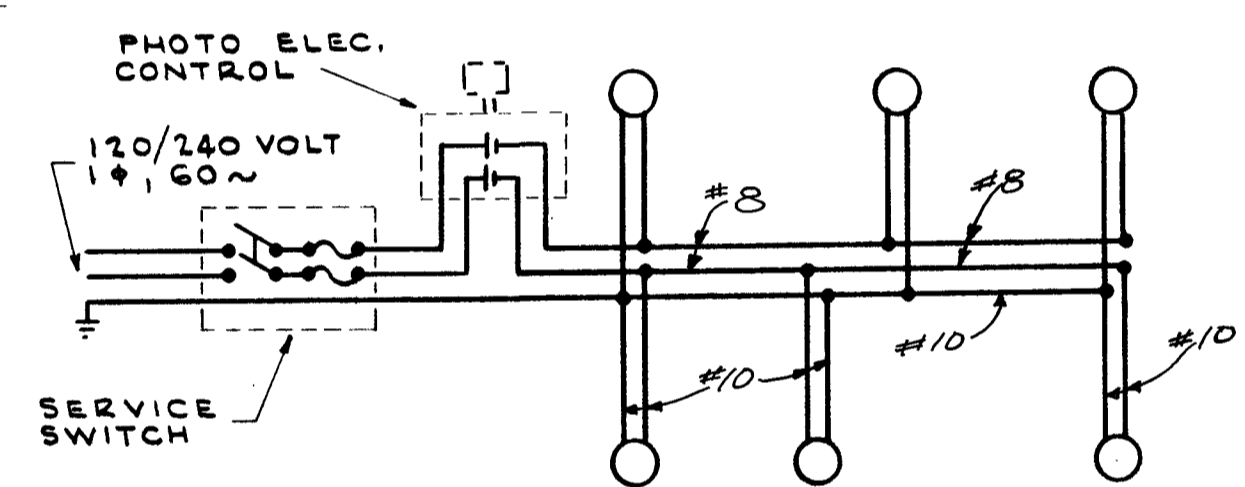
PLAN OF BRIDGE  
SCALE: 1" = 40'



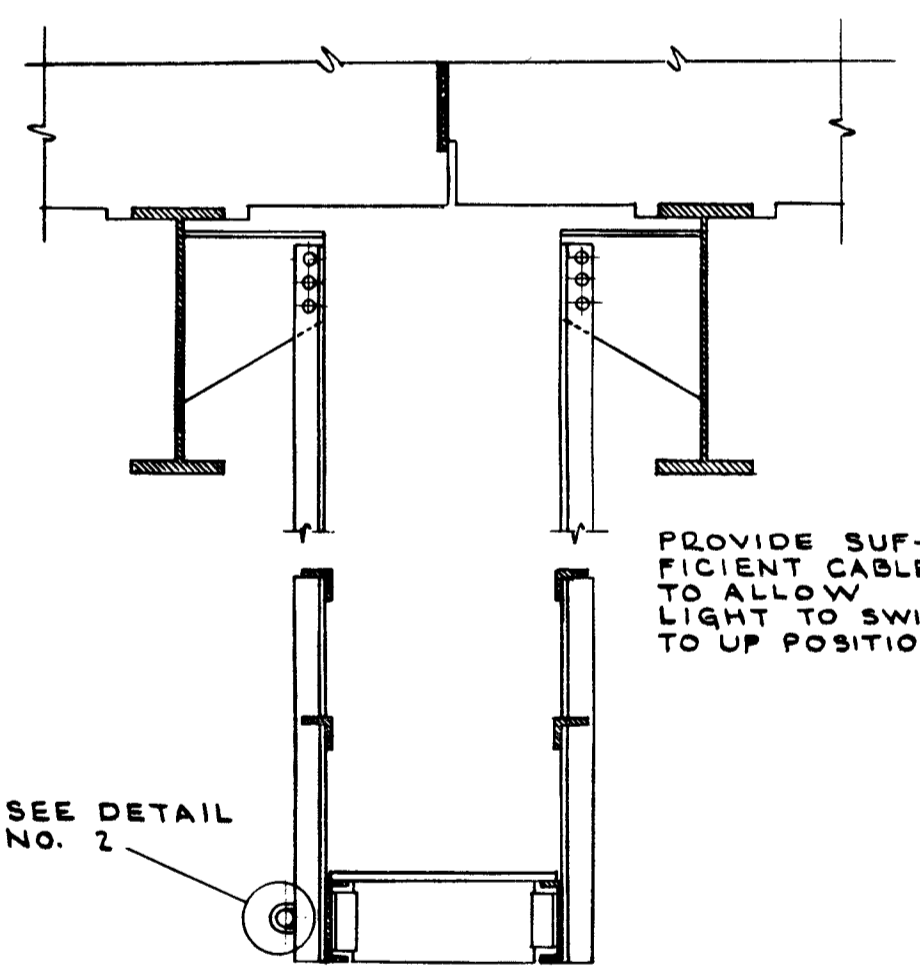
SECTION "A-A"  
SCALE: 3/8" = 1'-0"



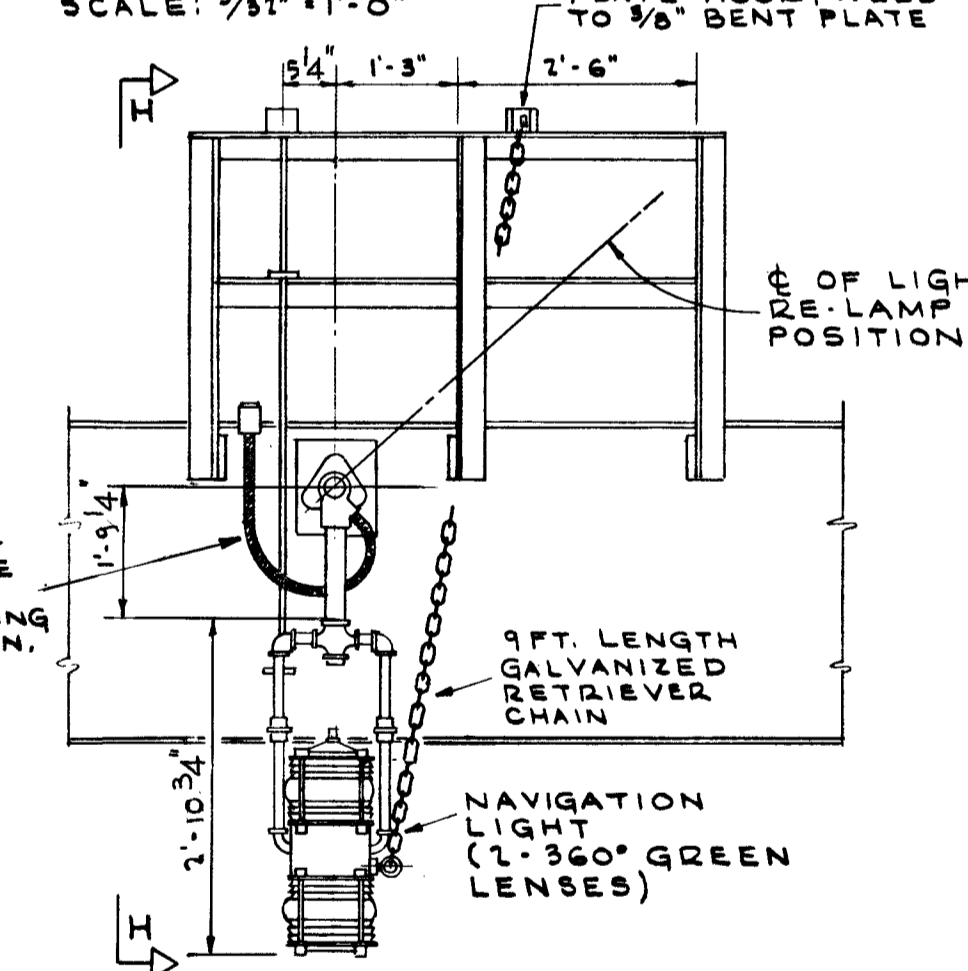
WIRING DIAGRAM FOR AUXILIARY LAMP RELAY WITH COIL ENERGIZED



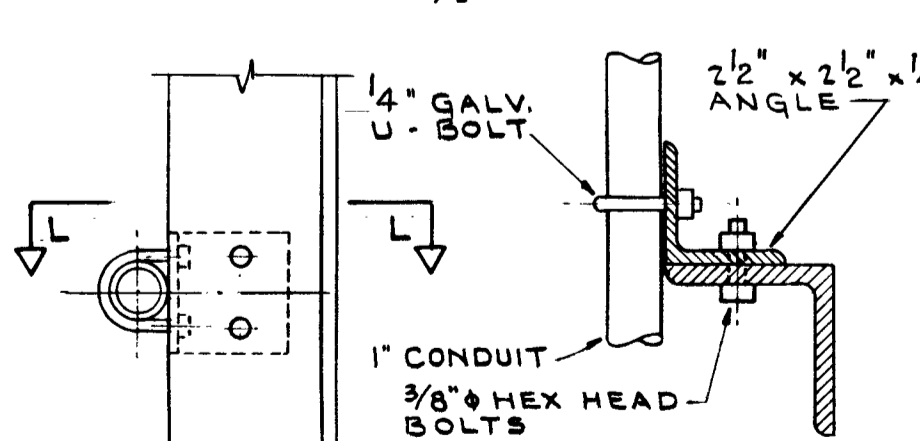
WIRING DIAGRAM



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

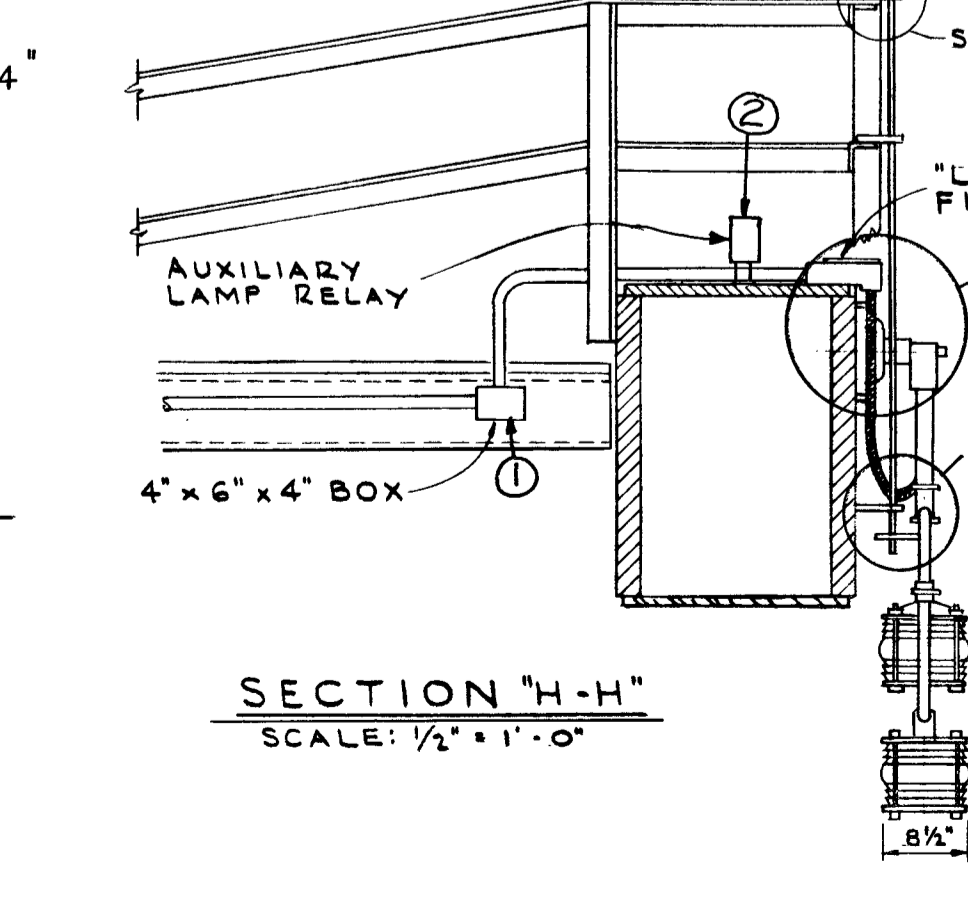


SECTION "G-G"  
SCALE: 1/2" = 1'-0"

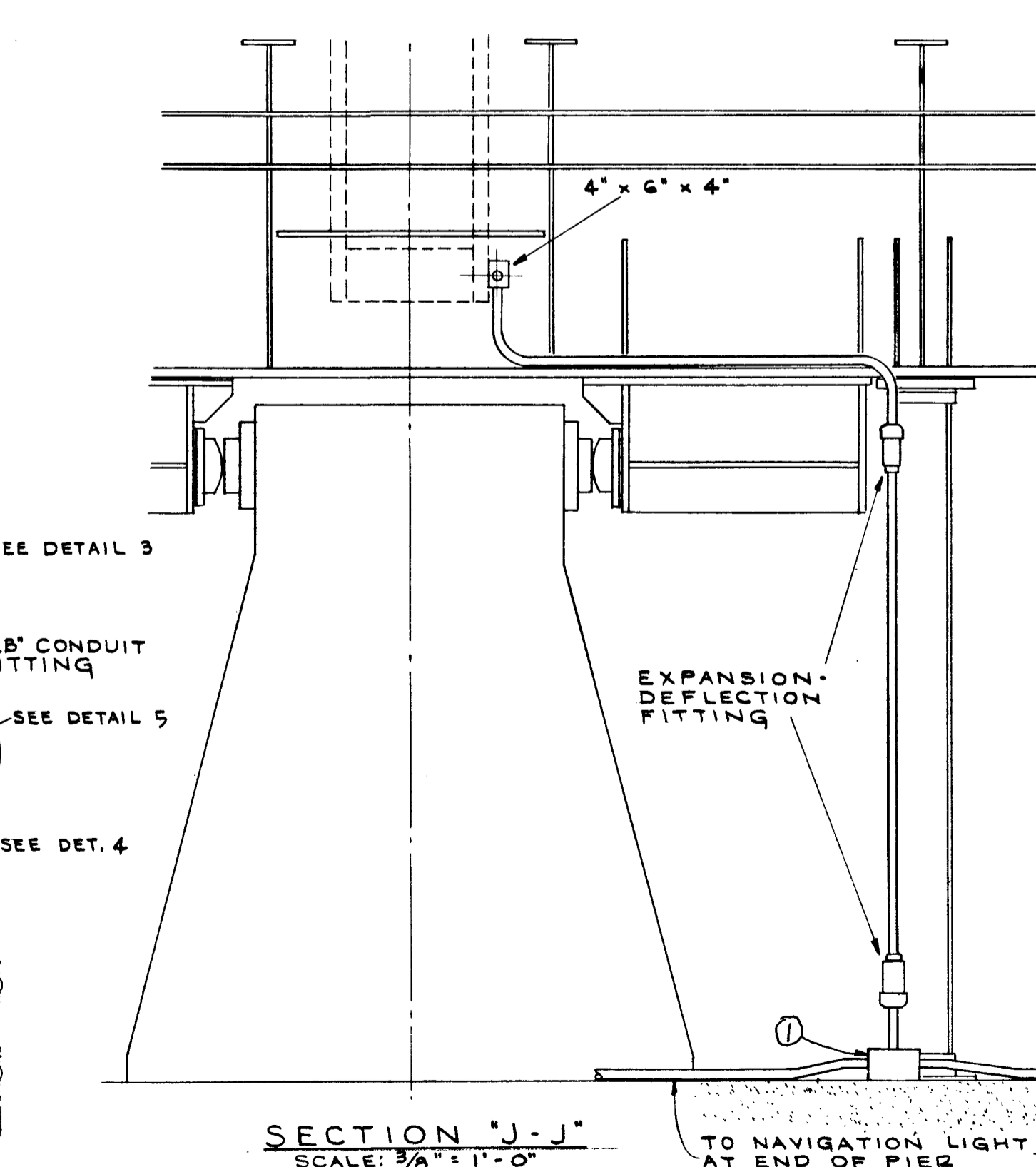


SECTION "L-L"  
SCALE: 3" = 1'-0"

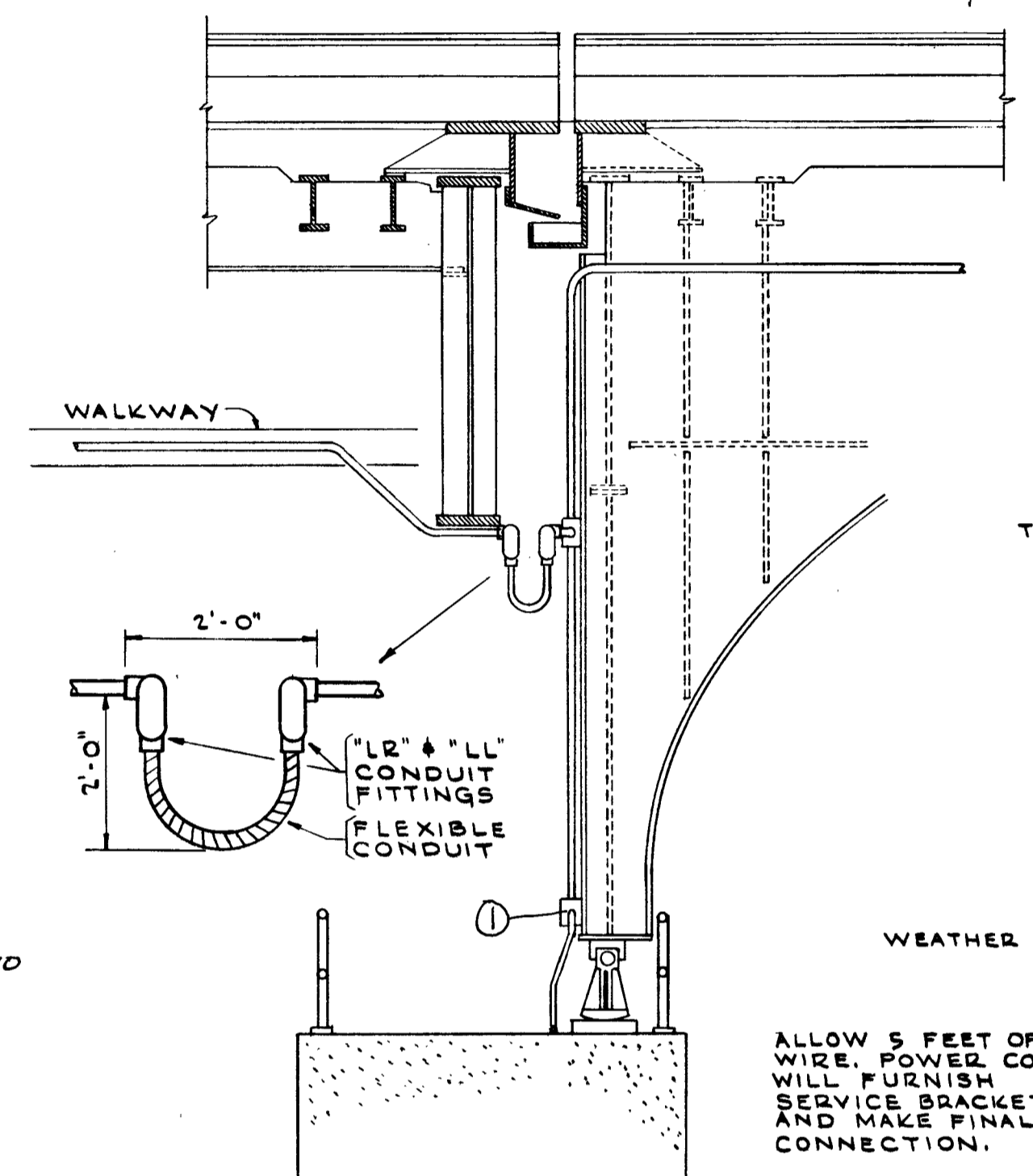
DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY G.R. FARRINGER  
DRAWN BY G.R. FARRINGER  
CHECKED T. HANSEN  
IN CHARGE W.J. ZAPFEL  
APPROVED T. HANSEN



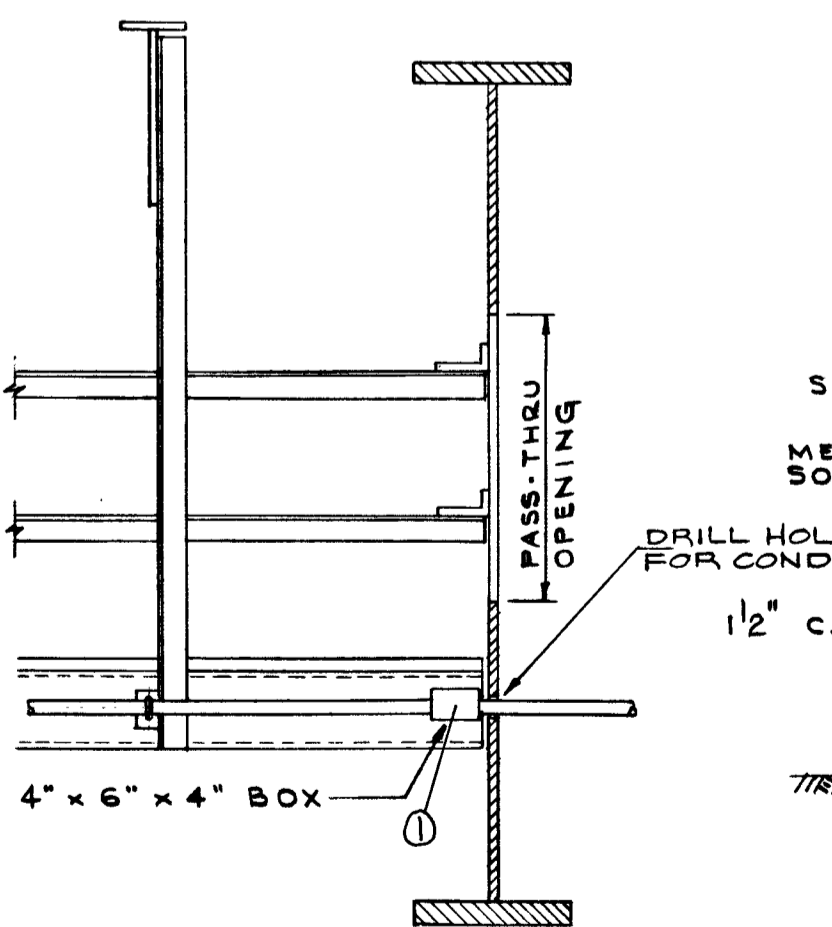
SECTION "H-H"  
SCALE: 1/2" = 1'-0"



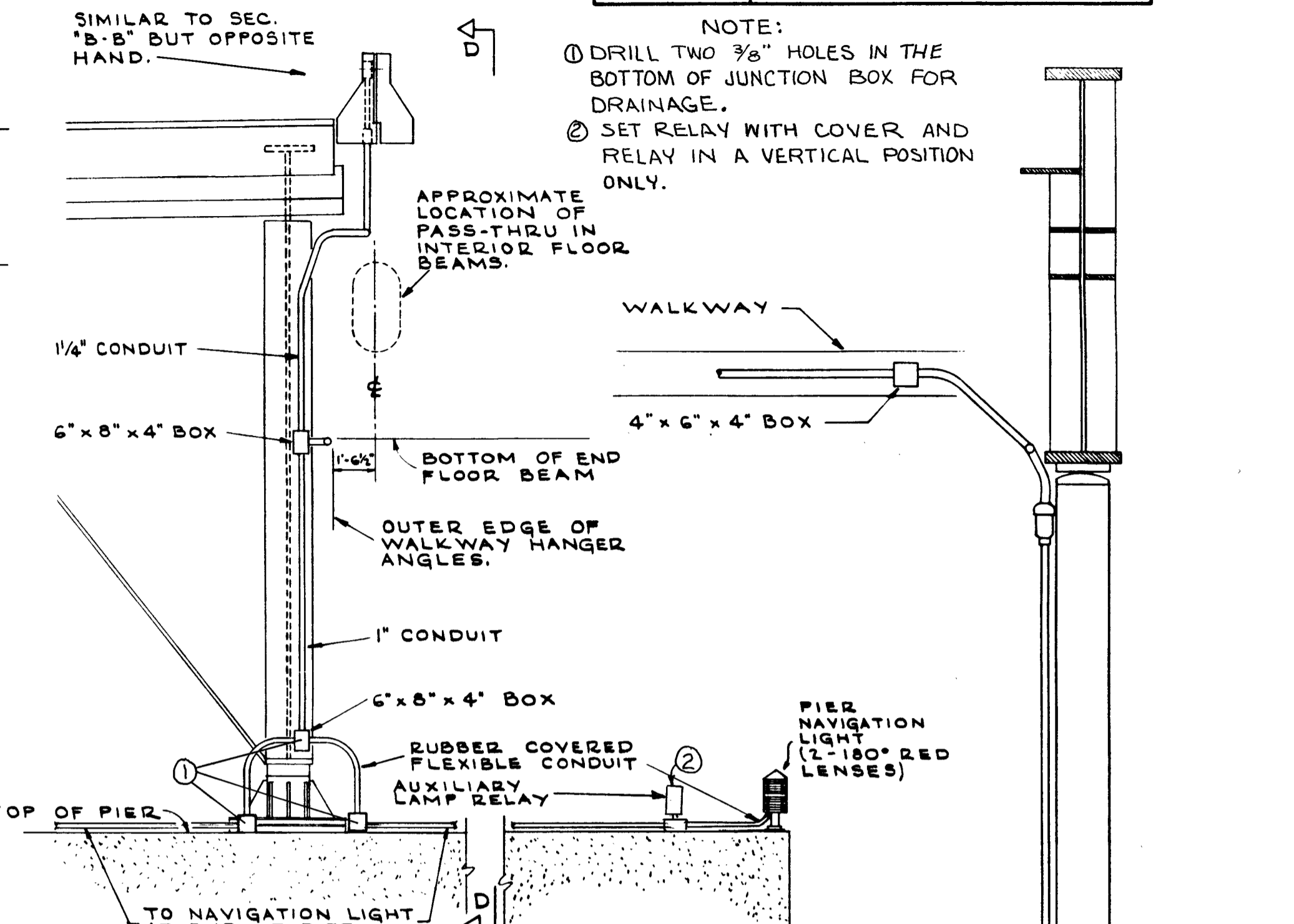
SECTION "J-J"  
SCALE: 3/8" = 1'-0"



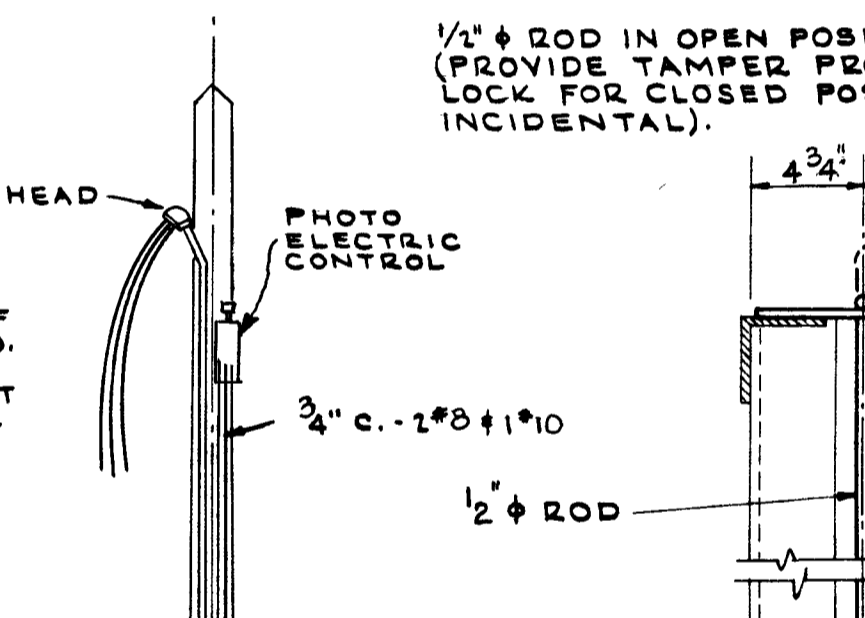
SECTION "D-D"  
SCALE: 1/4" = 1'-0"



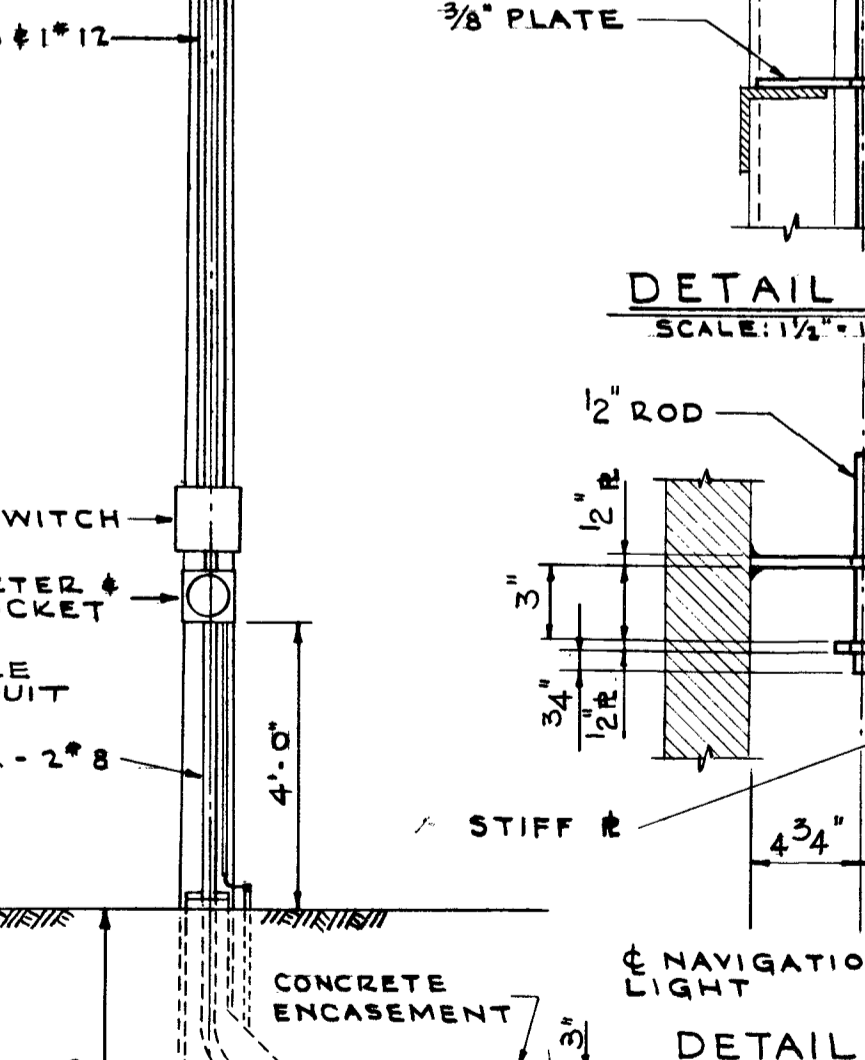
SECTION "F-F"  
SCALE: 1/2" = 1'-0"



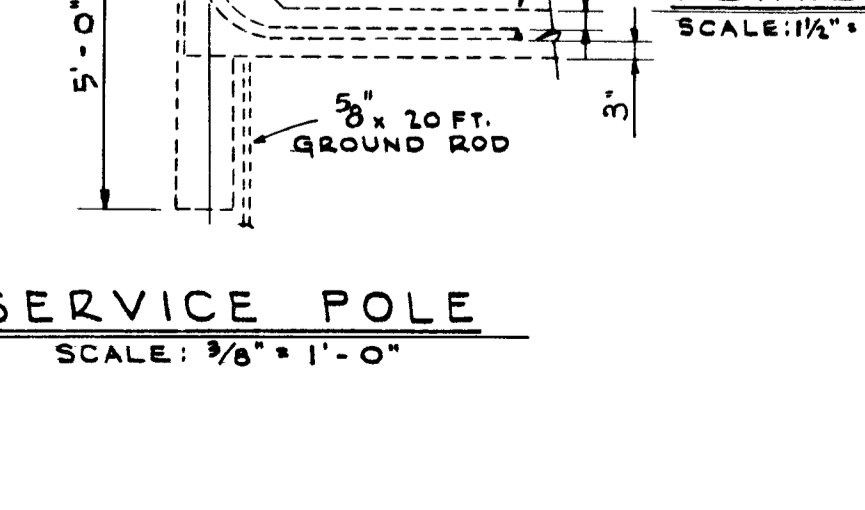
SECTION "C-C"  
SCALE: 1/4" = 1'-0"



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



DETAIL 3  
SCALE: 1/2" = 1'-0"



DETAIL 4  
SCALE: 1/2" = 1'-0"

- NOTE:
- DRILL TWO 3/8" HOLES IN THE BOTTOM OF JUNCTION BOX FOR DRAINAGE.
  - SET RELAY WITH COVER AND RELAY IN A VERTICAL POSITION ONLY.

APPROXIMATE LOCATION OF PASS-THRU IN INTERIOR FLOOR BEAMS.

WALKWAY

4" x 6" x 4" BOX

BOTTOM OF END FLOOR BEAM

OUTER EDGE OF WALKWAY HANGER ANGLES.

1" CONDUIT

6" x 8" x 4" BOX

RUBBER COVERED FLEXIBLE CONDUIT

AUXILIARY LAMP RELAY

PIER NAVIGATION LIGHT (2-180° RED LENSES)

12" x 12" x 8" BOX

TO NAVIGATION LIGHT AT END OF PIER

WEATHER HEAD

PHOTO ELECTRIC CONTROL

3/4" C. - 2" x 8" x 10"

1/2" ROD

3/8" PLATE

5/8" HOLE

1/2" BENT R.

2" I.D. PIPE

3/4" I.D. PIPE

STIFF #

NAVIGATION LIGHT

CONCRETE ENCASEMENT

5" x 10 FT. GROUND ROD

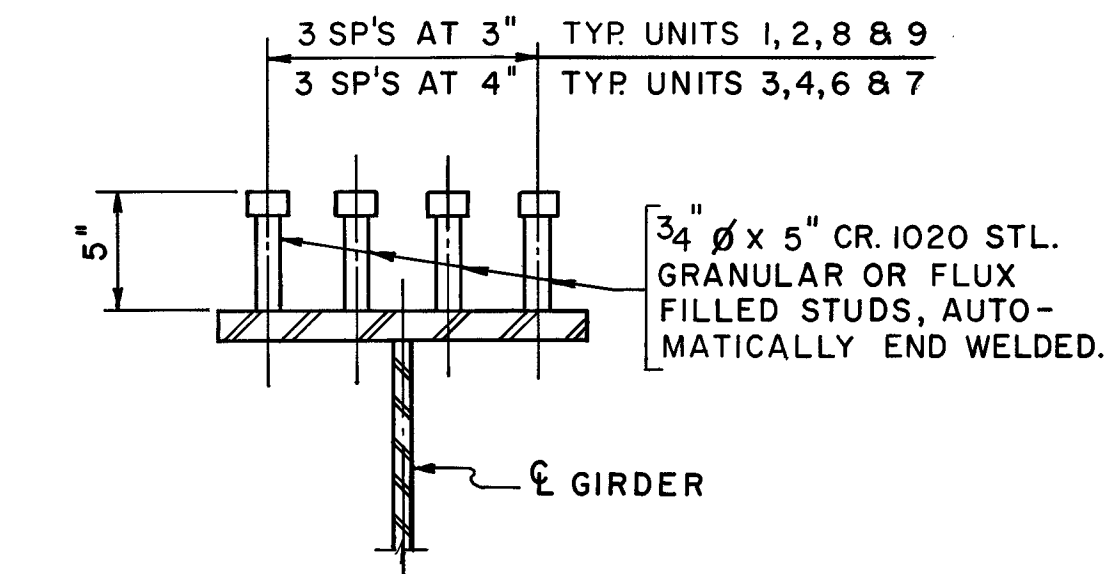
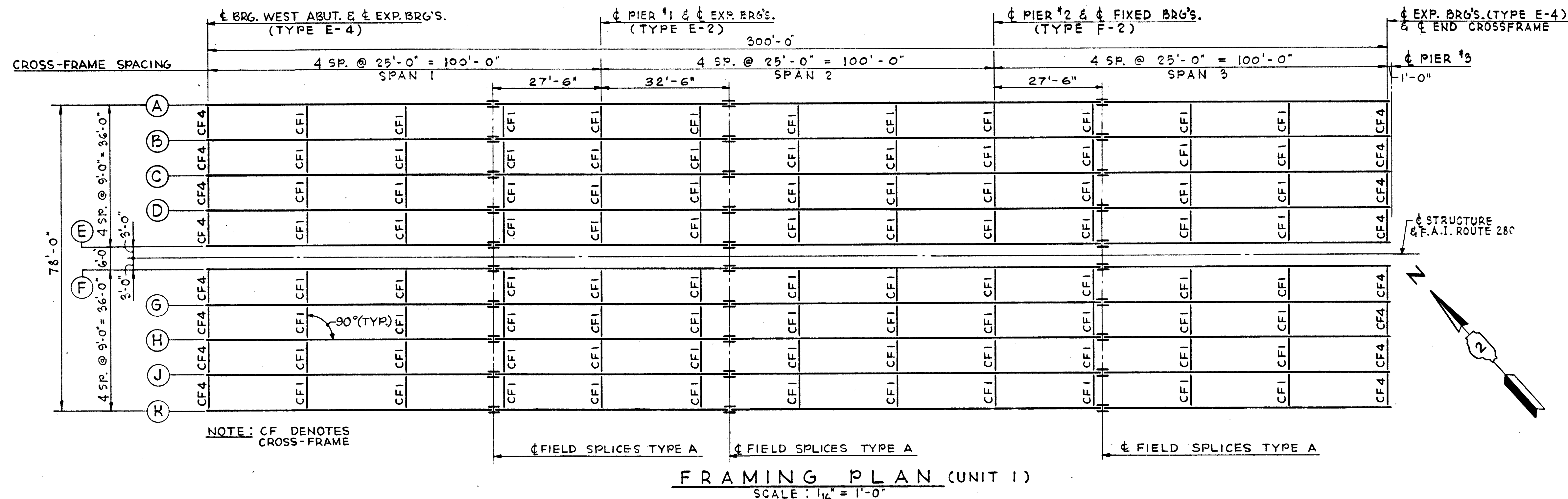
SWIVEL

BENT PLATE (BY OTHERS)

DETAIL 5  
SCALE: 1/2" = 1'-0"

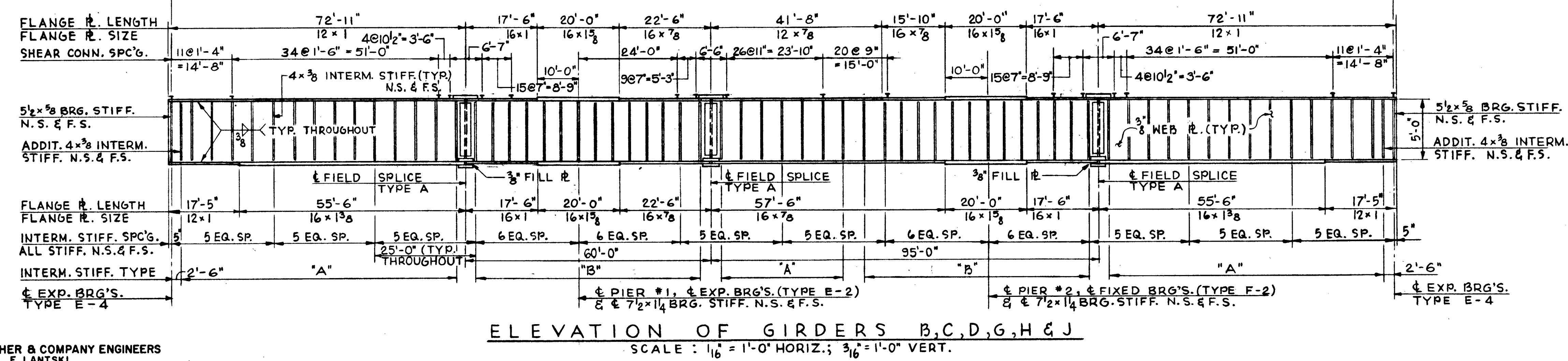
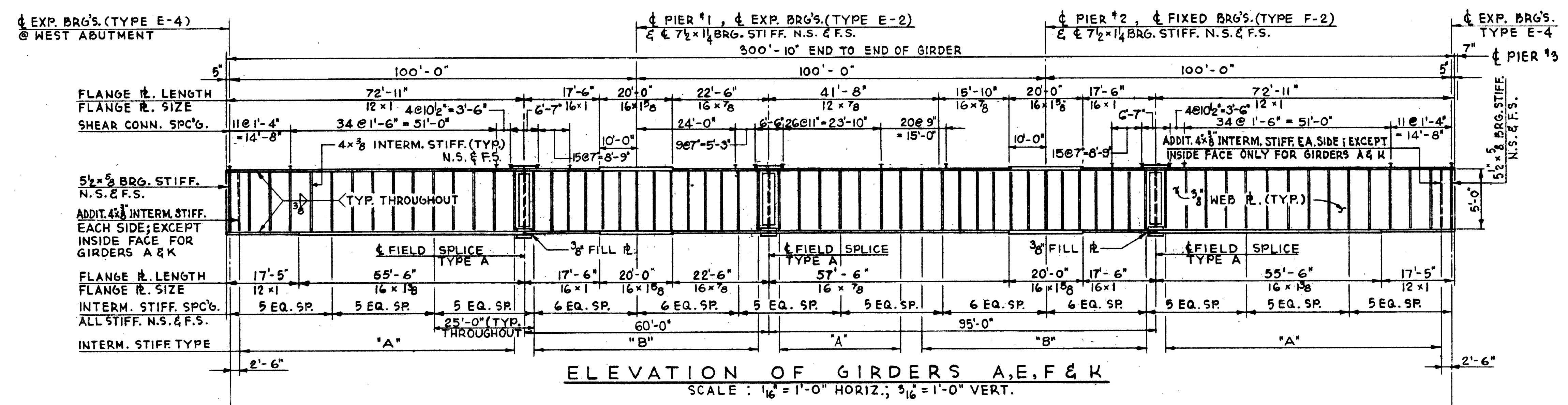
**NAVIGATION LIGHTING**  
F.A.I. ROUTE 280 SECTION 81-ID  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	52
FED. ROAD DIST. NO.	FED. AID PROJECT 1-230		



FOR SHEAR CONNECTOR LOCATION AND SPACING, SEE GIRDER ELEVATIONS, SHEETS NO. 52 THROUGH 59.  
SHEAR CONNECTOR SPACING SHALL BE MODIFIED AS NECESSARY TO CLEAR FLANGE SHOP WELDINGS.

**NOTE:**  
THIS DRAWING HAS BEEN REPRODUCED IN PART FROM STRUCTURAL STEEL CONTRACT 81-IF & E TO BE USED ONLY AS REFERENCE FOR FURNISHING AND PLACING THE STUD SHEAR CONNECTORS WHICH ARE PART OF THIS CONTRACT.



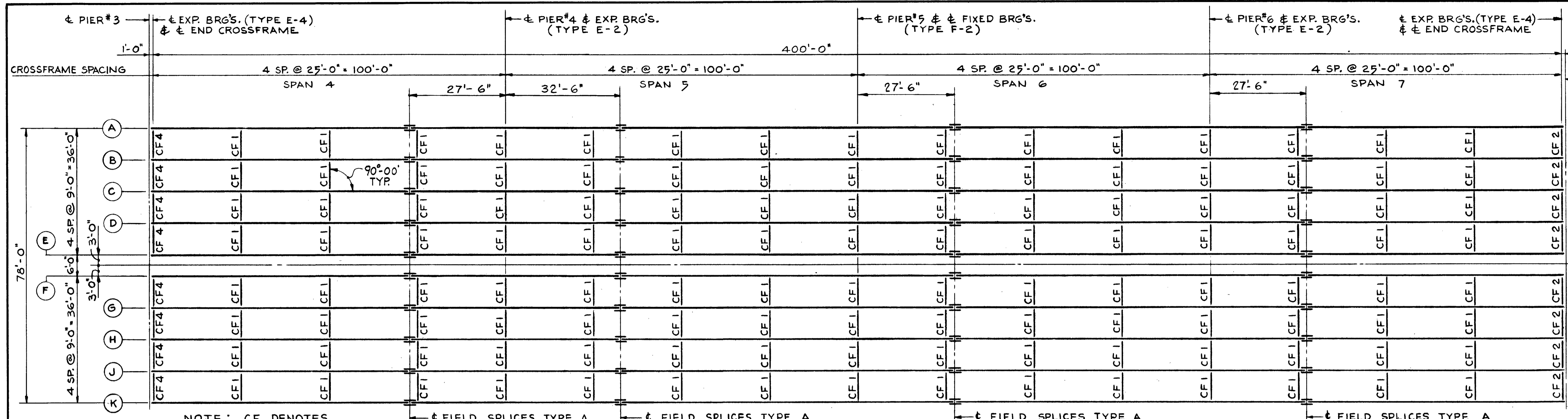
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
STUD SHEAR CONNECTORS	EACH	7,560

**FRAMING PLAN - UNIT I**  
F.A.I. ROUTE 280 SECTION 81-ID  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

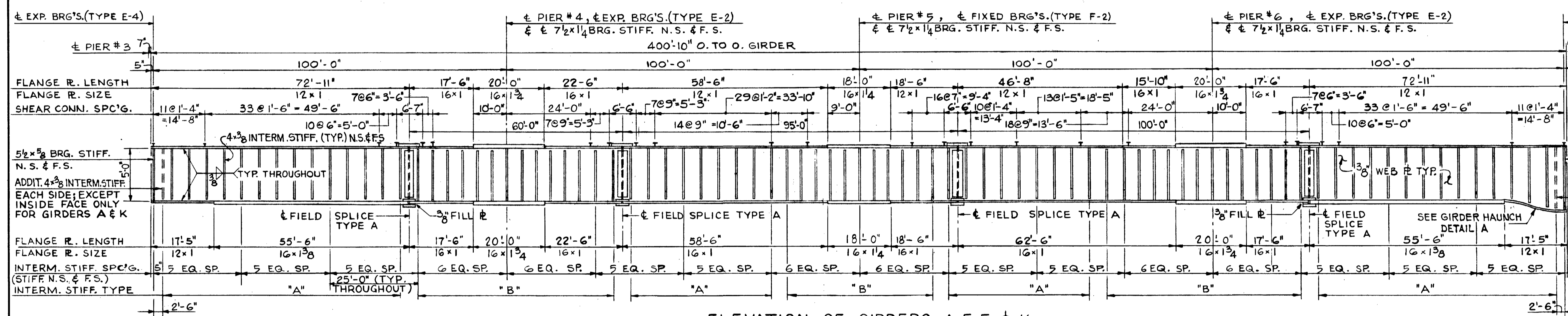
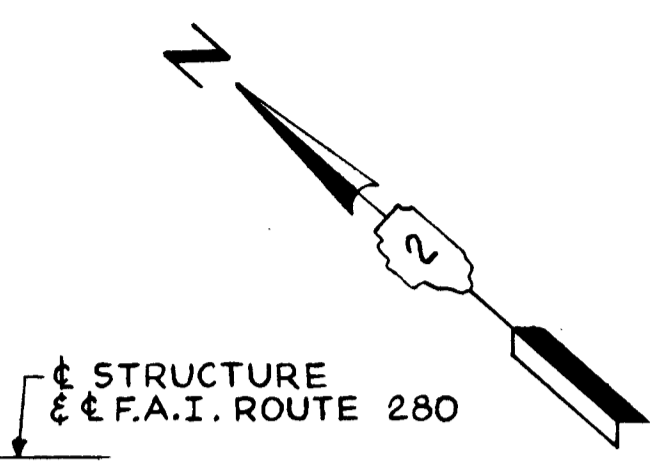
DE LEUW, CATHAR & COMPANY ENGINEERS  
DESIGNED BY E. LANTSKI  
DRAWN BY F. BOBINAS  
CHECKED W.Y. HUO  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN



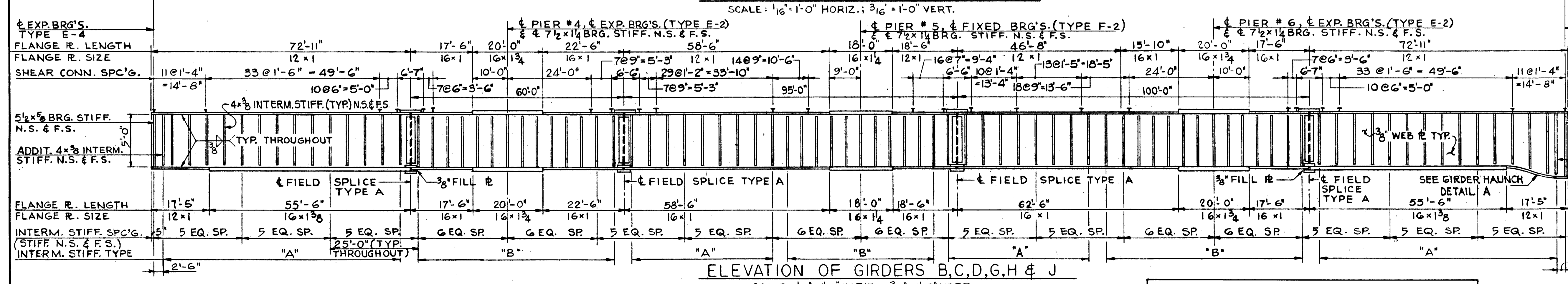
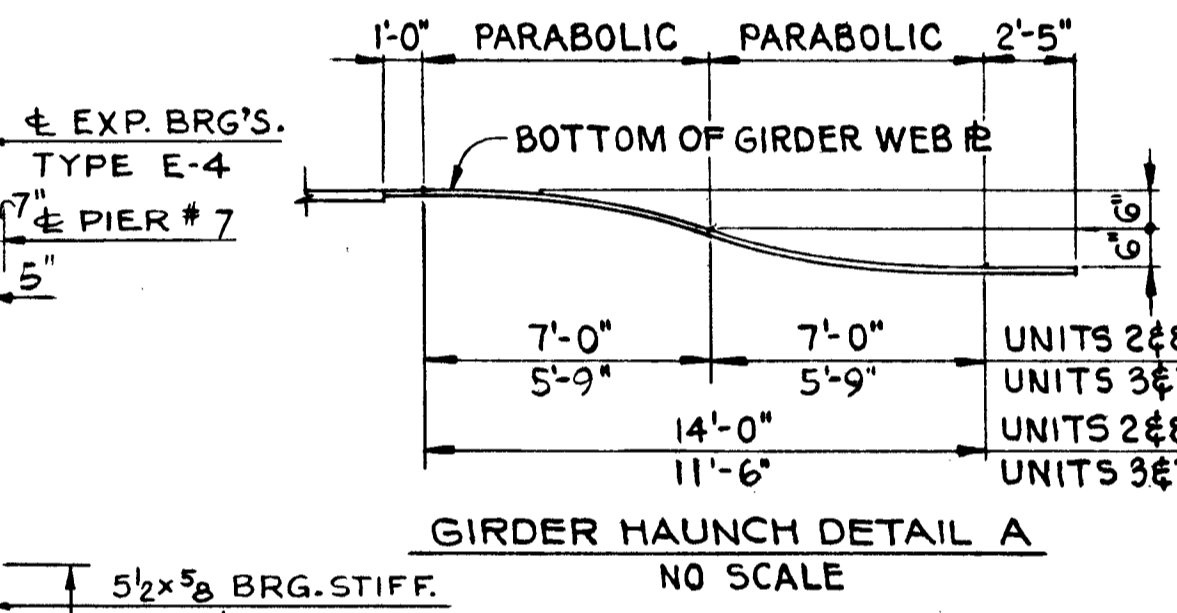
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-10	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	53
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



FRAMING PLAN (UNIT 2)  
SCALE: 1/16" = 1'-0"



ELEVATION OF GIRDERS A, E, F & K  
SCALE: 1/16" = 1'-0" HORIZ.; 3/16" = 1'-0" VERT.



ELEVATION OF GIRDERS B, C, D, G, H & J  
SCALE: 1/16" = 1'-0" HORIZ.; 3/16" = 1'-0" VERT.

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. LANITSKI  
DRAWN BY G. SCHWARTZ  
CHECKED W. Y. HUO  
IN CHARGE W. J. ZAPPEL  
APPROVED W. G. HORN

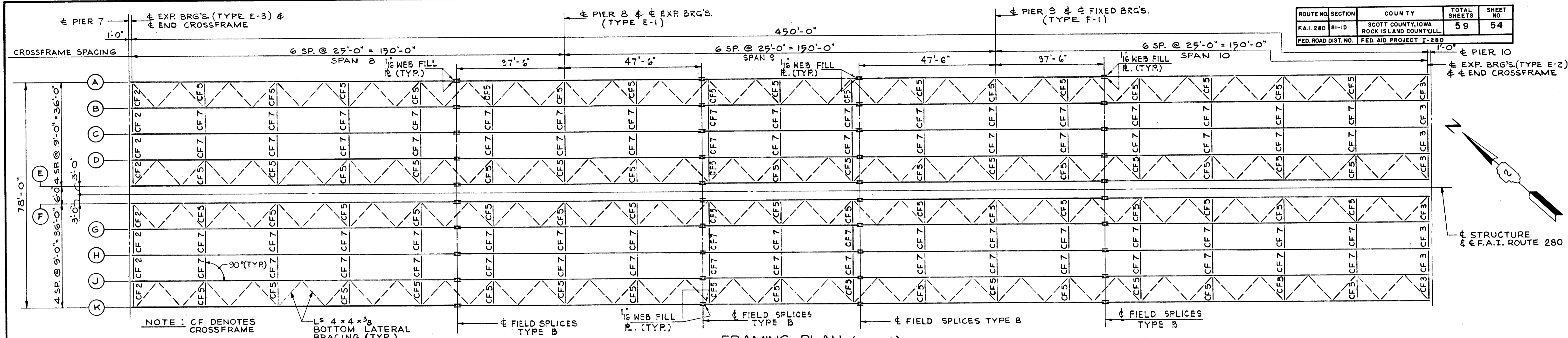
NOTE: THIS DRAWING HAS BEEN REPRODUCED IN PART FROM STRUCTURAL STEEL CONTRACT 81-1F & E TO BE USED ONLY AS REFERENCE FOR FURNISHING AND PLACING THE STUD SHEAR CONNECTORS WHICH ARE PART OF THIS CONTRACT.  
FOR DETAIL OF SHEAR CONNECTORS, SEE SHEET NO. 52.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
STUD SHEAR CONNECTORS	EACH	9,760

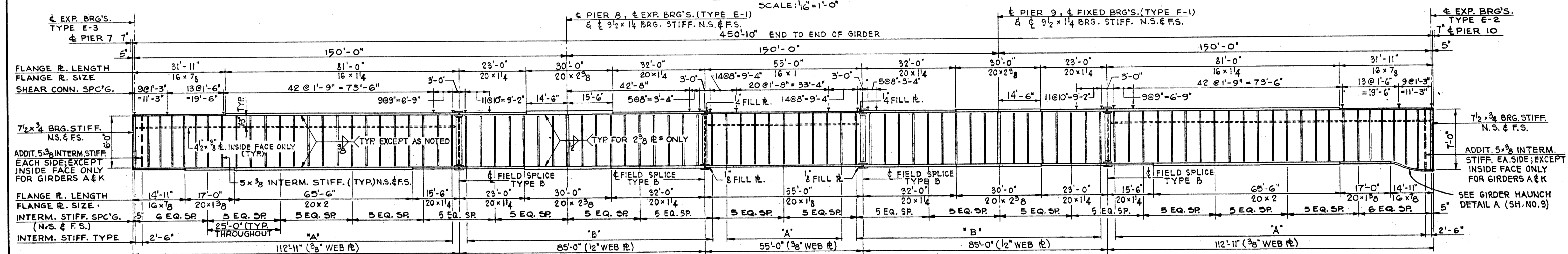
FRAMING PLAN - UNIT 2  
F.A.I. ROUTE 280 SECTION 81-10  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970



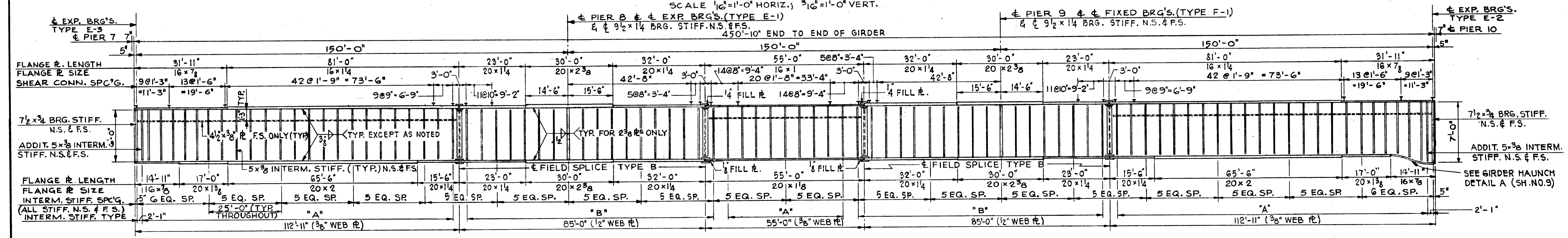
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	54
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



FRAMING PLAN (UNIT 3)  
SCALE: 1/16" = 1'-0"



ELEVATION OF EXTERIOR GIRDERS A, E, F & K  
SCALE: 1/16" = 1'-0" HORIZ.; 3/16" = 1'-0" VERT.



ELEVATION OF GIRDERS B, C, D, G, H & J  
SCALE: 1/16" = 1'-0" HORIZ.; 3/16" = 1'-0" VERT.

NOTE:  
THIS DRAWING HAS BEEN REPRODUCED IN PART FROM STRUCTURAL STEEL CONTRACT 81-1F & E TO BE USED ONLY AS REFERENCE FOR FURNISHING AND PLACING THE STUD SHEAR CONNECTORS WHICH ARE PART OF THIS CONTRACT.  
FOR DETAIL OF SHEAR CONNECTORS, SEE SHEET NO. 52.

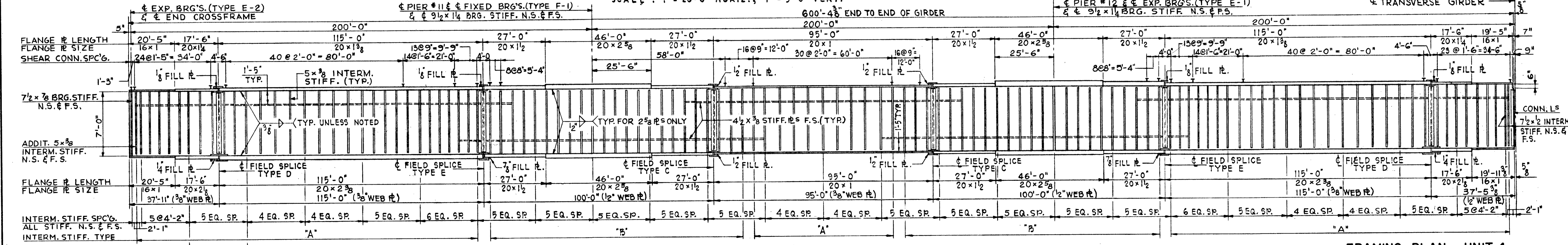
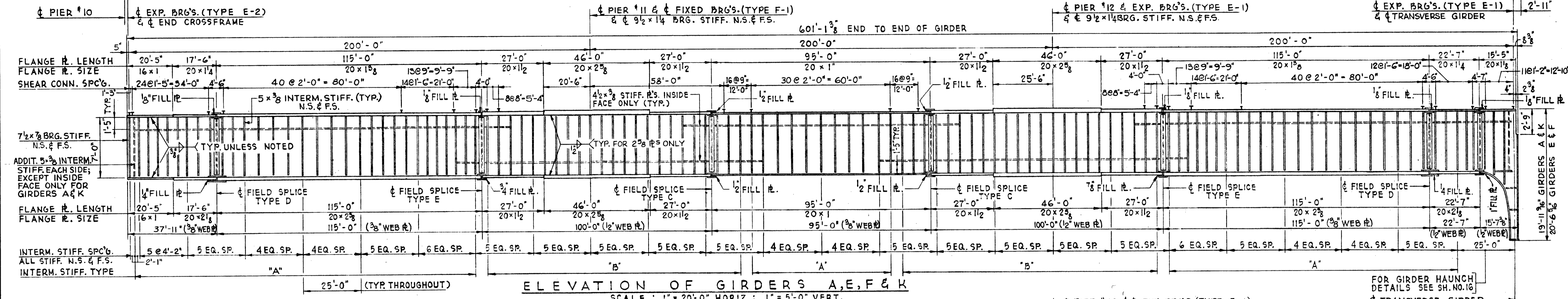
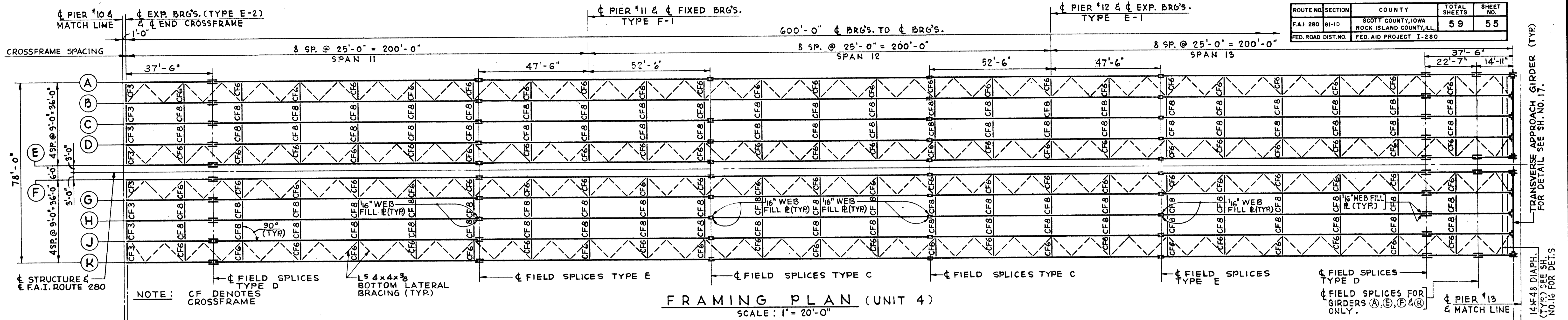
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. LANSKI  
DRAWN BY G. SCHWARTZ  
CHECKED W.Y. HUO  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
STUD SHEAR CONNECTORS	EACH	9,320

FRAMING PLAN - UNIT 3  
F.A.I. ROUTE 280 SECTION 81-D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-10	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	55
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		



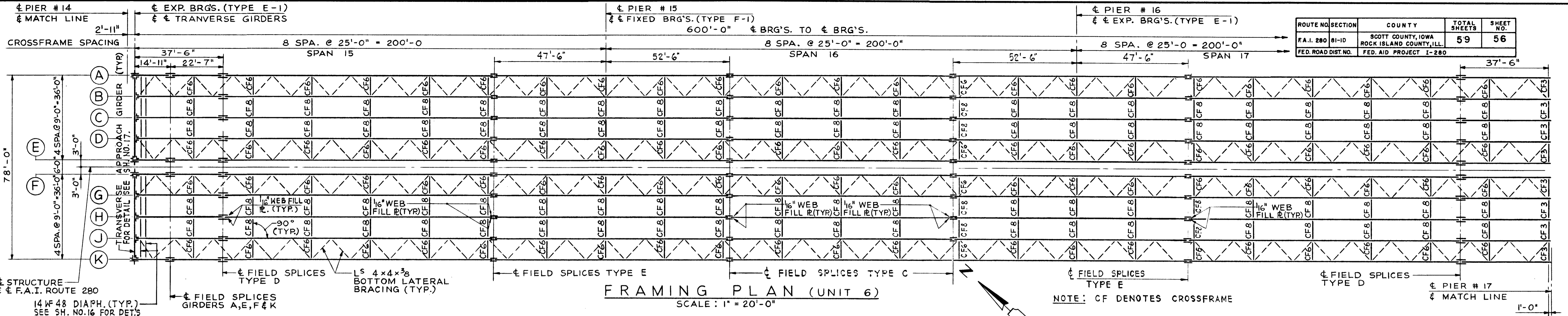
NOTE:  
THIS DRAWING HAS BEEN REPRODUCED IN PART FROM STRUCTURAL STEEL CONTRACT 81-1F & E TO BE USED ONLY AS REFERENCE FOR FURNISHING AND PLACING THE STUD SHEAR CONNECTORS WHICH ARE PART OF THIS CONTRACT.  
FOR DETAIL OF SHEAR CONNECTORS, SEE SHEET NO. 52.

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY: E. LANTSKI  
DRAWN BY: G. SCHWARTZ  
CHECKED: W.Y. HUO  
IN CHARGE: W.J. ZAPFEL  
APPROVED: W.G. HORN

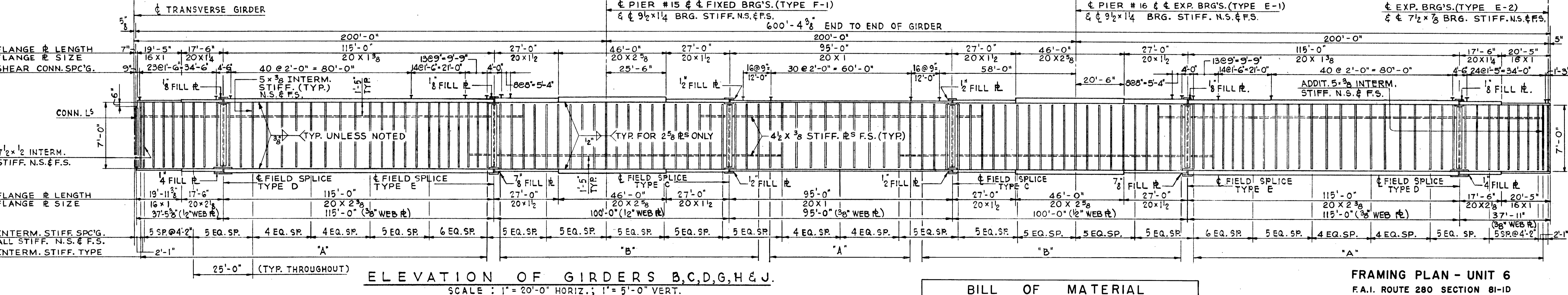
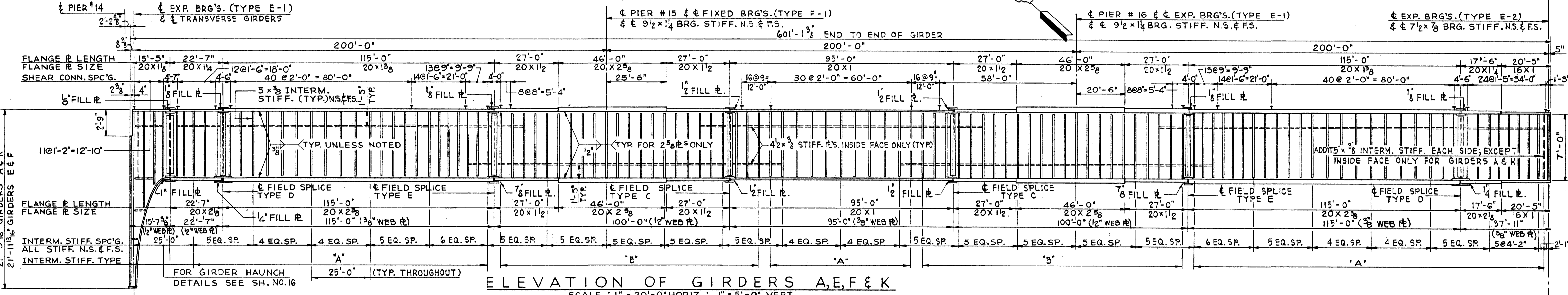
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
STUD SHEAR CONNECTORS	EACH	10,680

**FRAMING PLAN - UNIT 4**  
F.A.I. ROUTE 280 SECTION 81-10  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970





ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-10	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	56
FED. ROAD DIST. NO.	FED. AID PROJECT I-280		



BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
STUD SHEAR CONNECTORS	EACH	10,680

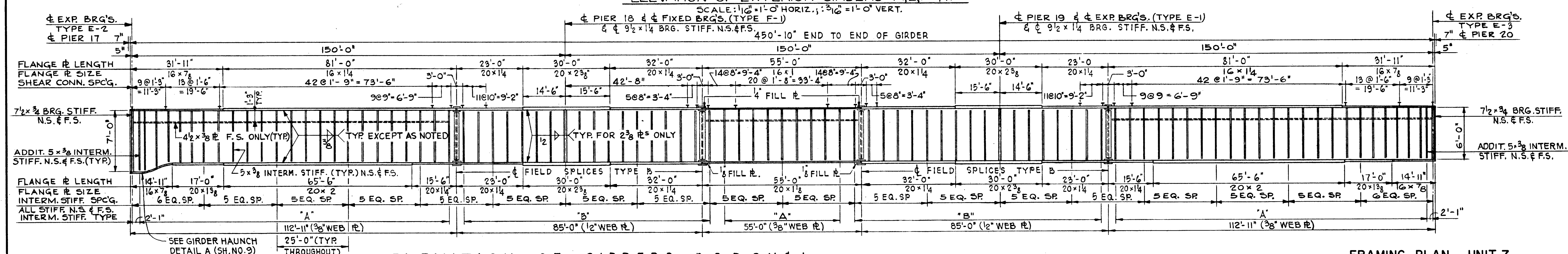
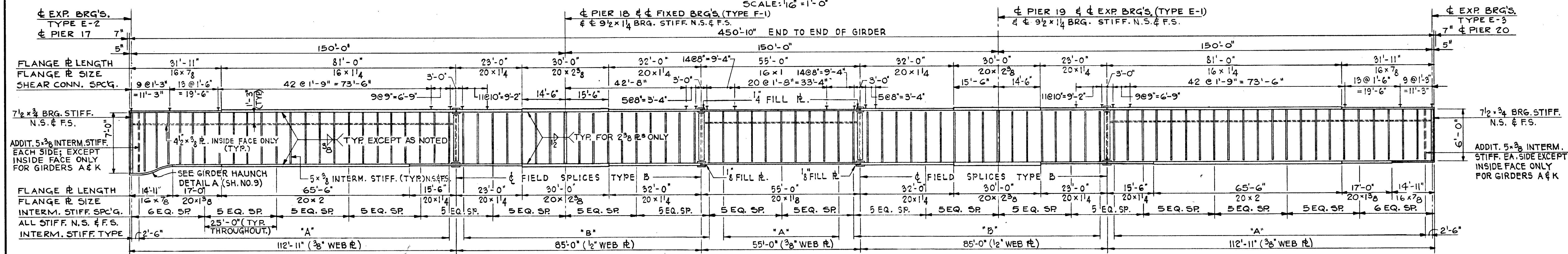
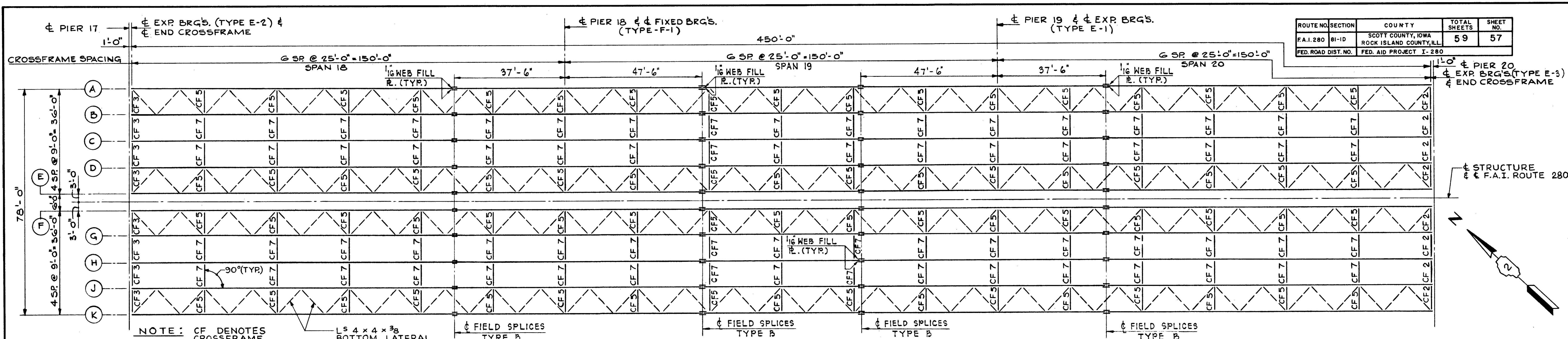
**FRAMING PLAN - UNIT 6**  
F.A.I. ROUTE 280 SECTION 81-10  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. LANTSKI  
DRAWN BY G. SCHWARTZ  
CHECKED W.Y. HUO  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

NOTE:  
THIS DRAWING HAS BEEN REPRODUCED IN PART FROM STRUCTURAL STEEL CONTRACT 81-1F & E TO BE USED ONLY AS REFERENCE FOR FURNISHING AND PLACING THE STUD SHEAR CONNECTORS WHICH ARE PART OF THIS CONTRACT.  
FOR DETAIL OF SHEAR CONNECTORS, SEE SHEET NO. 52.



ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280 81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	57
FED. ROAD DIST. NO.	FED. AID PROJECT	I-280	



DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. LANTSKI  
DRAWN BY G. SCHWARTZ  
CHECKED W. Y. HUO  
IN CHARGE W. J. ZAPFEL  
APPROVED W. G. HORN

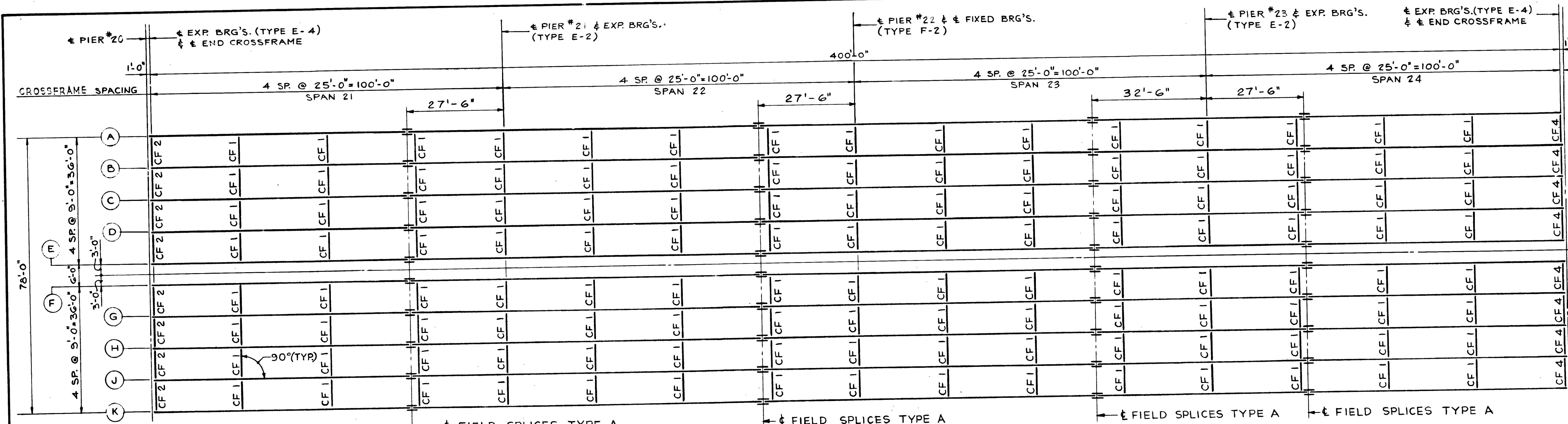
NOTE:  
THIS DRAWING HAS BEEN REPRODUCED IN PART FROM STRUCTURAL STEEL CONTRACT 81-1F & E TO BE USED ONLY AS REFERENCE FOR FURNISHING AND PLACING THE STUD SHEAR CONNECTORS WHICH ARE PART OF THIS CONTRACT.  
FOR DETAIL OF SHEAR CONNECTORS, SEE SHEET NO. 52.

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
STUD SHEAR CONNECTORS	EACH	9,320

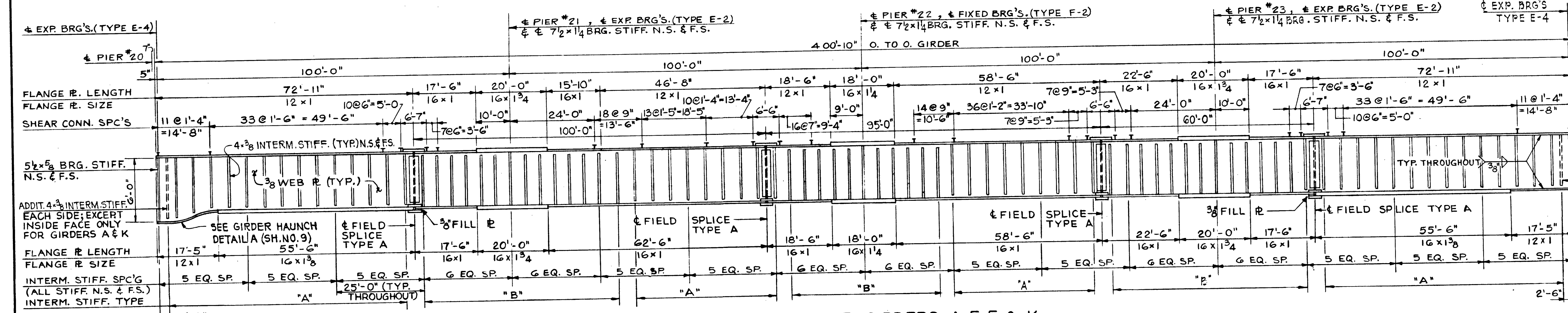
**FRAMING PLAN - UNIT 7**  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970



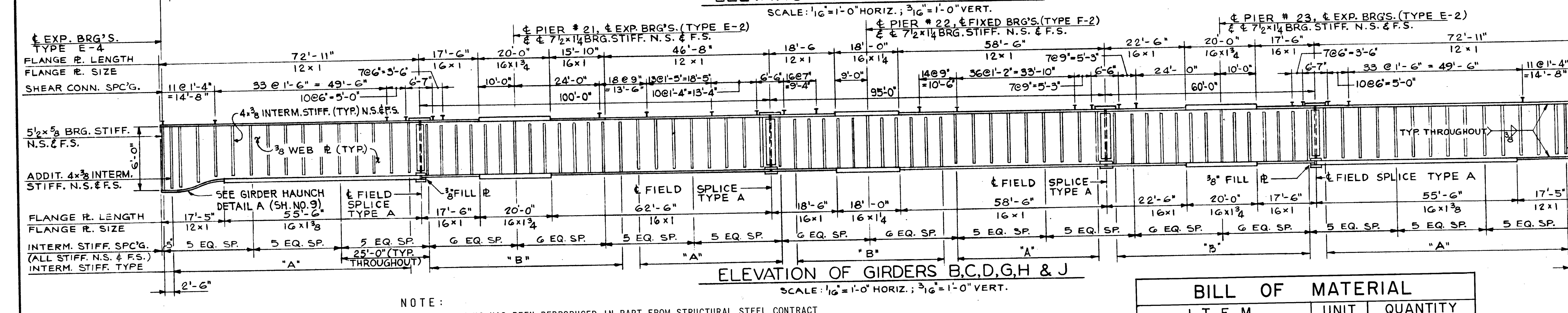
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1D	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	58
FED. ROAD DIST. NO.	FED. AID PROJECT I-280			



FRAMING PLAN (UNIT 8)  
SCALE: 1/16"=1'-0"



ELEVATION OF GIRDERS A, E, F & K  
SCALE: 1/16"=1'-0" HORIZ.; 3/16"=1'-0" VERT.



ELEVATION OF GIRDERS B, C, D, G, H & J  
SCALE: 1/16"=1'-0" HORIZ.; 3/16"=1'-0" VERT.

NOTE:  
THIS DRAWING HAS BEEN REPRODUCED IN PART FROM STRUCTURAL STEEL CONTRACT 81-1F & E TO BE USED ONLY AS REFERENCE FOR FURNISHING AND PLACING THE STUD SHEAR CONNECTORS WHICH ARE PART OF THIS CONTRACT.  
FOR DETAIL OF SHEAR CONNECTORS, SEE SHEET NO. 52.

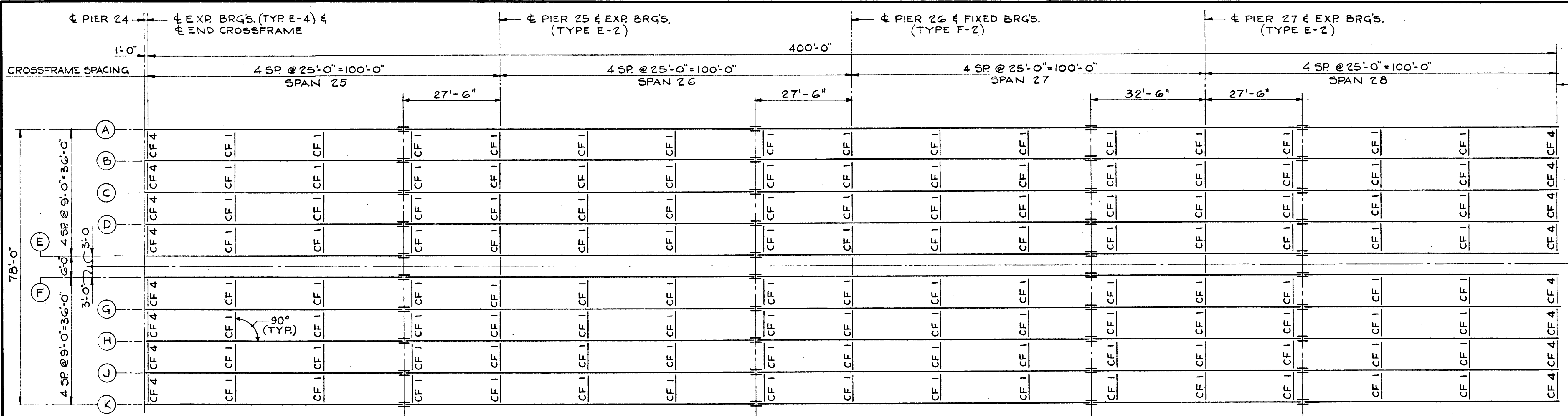
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY E. LANTSKI  
DRAWN BY G. SCHWARTZ  
CHECKED W.Y. HUO  
IN CHARGE W.J. ZAPFEL  
APPROVED W.G. HORN

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
STUD SHEAR CONNECTORS	EACH	9,760

FRAMING PLAN - UNIT 8  
F.A.I. ROUTE 280 SECTION 81-1D  
I-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970

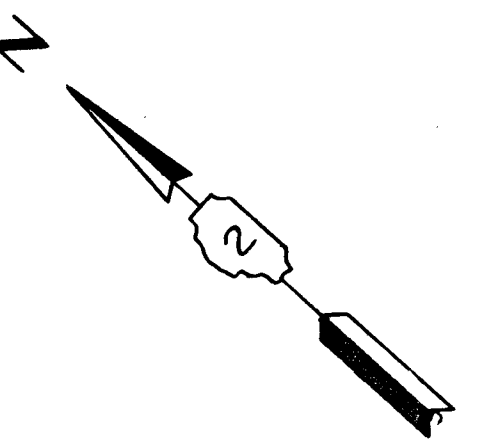


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI. 280	81-ID	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	59	59
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		



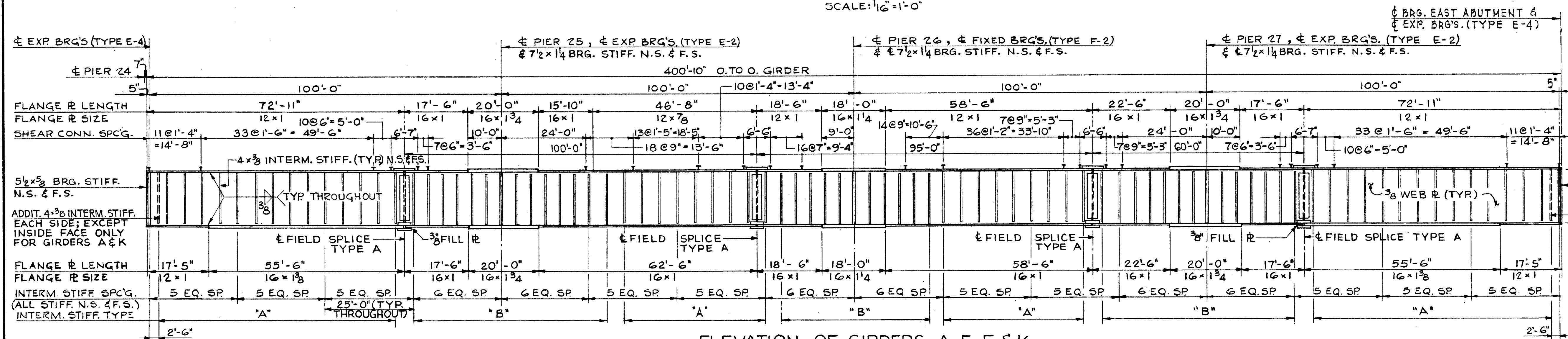
BRG. EAST ABUTMENT &  
EXP BRG'S. (TYPE E-4) &  
END CROSSFRAME

STRUCTURE  
& F.A.I. ROUTE 280

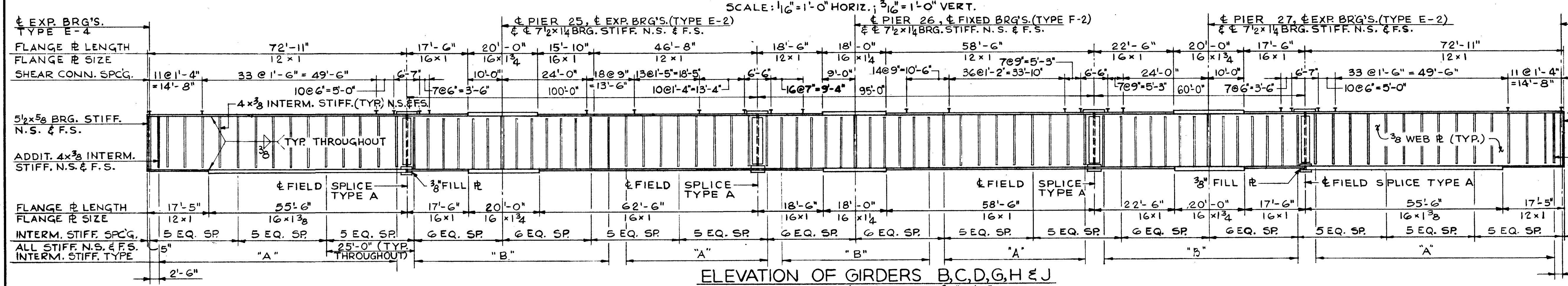


NOTE: CF DENOTES CROSSFRAME

FRAMING PLAN (UNIT 9)  
SCALE: 1/16" = 1'-0"



ELEVATION OF GIRDERS A, E, F & K  
SCALE: 1/16" = 1'-0" HORIZ.; 3/16" = 1'-0" VERT.



ELEVATION OF GIRDERS B, C, D, G, H & J  
SCALE: 1/16" = 1'-0" HORIZ.; 3/16" = 1'-0" VERT.

NOTE: THIS DRAWING HAS BEEN REPRODUCED IN PART FROM STRUCTURAL STEEL CONTRACT 81-1F & E TO BE USED ONLY AS REFERENCE FOR FURNISHING AND PLACING THE STUD SHEAR CONNECTORS WHICH ARE PART OF THIS CONTRACT. FOR DETAIL OF SHEAR CONNECTORS, SEE SHEET NO. 52.

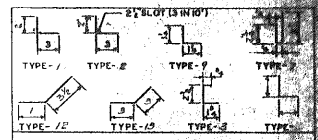
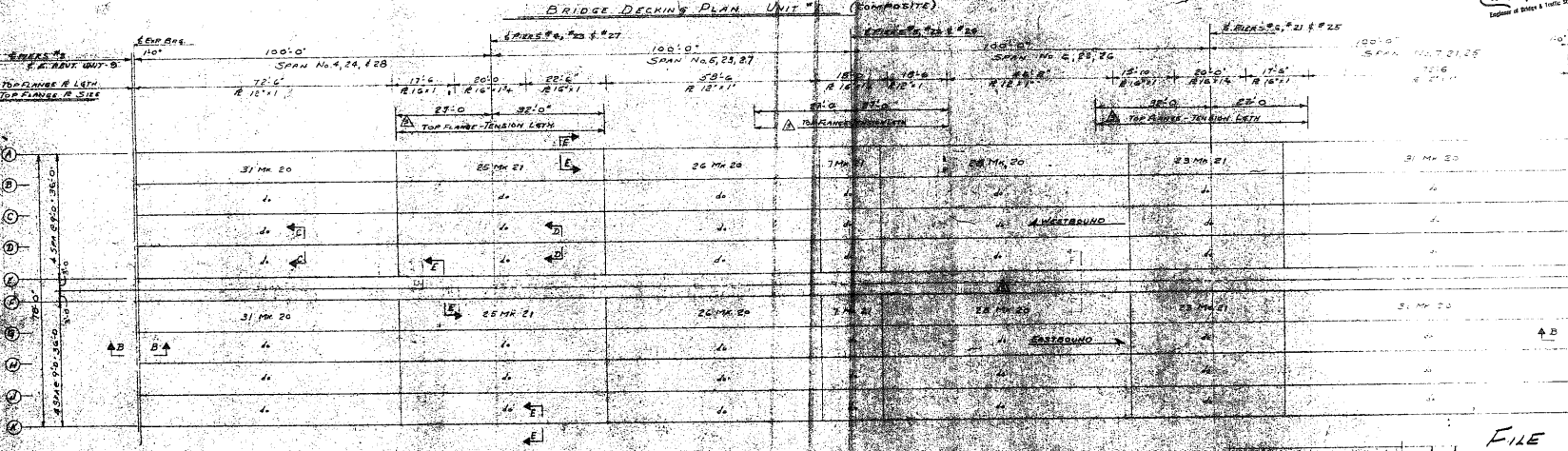
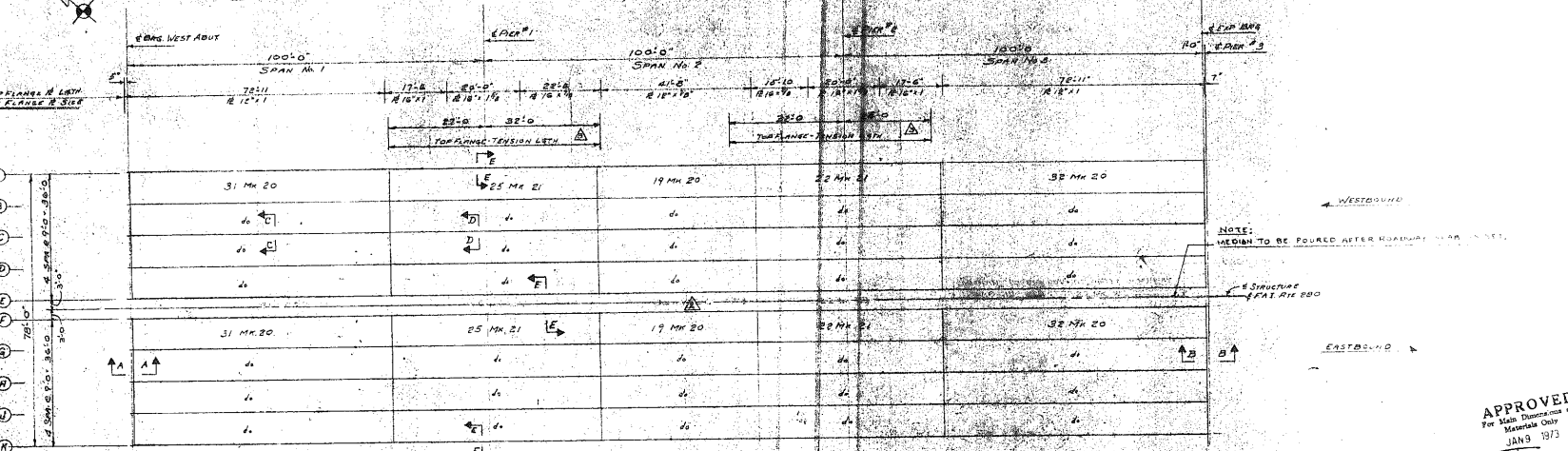
DE LEUW, CATHER & COMPANY ENGINEERS  
DESIGNED BY: E. LANTSKI  
DRAWN BY: G. SCHWARTZ  
CHECKED: W. Y. HUO  
IN CHARGE: W. J. ZAPFEL  
APPROVED: W. G. HORN

BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
STUD SHEAR CONNECTORS	EACH	9,760

FRAMING PLAN - UNIT 9  
F.A.I. ROUTE 280 SECTION 81-ID  
1-280 OVER MISSISSIPPI RIVER  
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.  
STA. 11 + 11.38 TO STA. 53 + 04.38  
SCALE: AS NOTED DATE: NOV. 16, 1970







BRIDGE DECK ACCESSORIES				GRADE C
MARK	TYPE	LENGTH	NO.	THICKNESS
1	1	10'-0"	1476	0.0775
2	2	10'-0"	10-240	0.0775
7	7	2' WIDE	5450	0.0775
9	9	10'-0"	748	0.0775
12	12	2'-0"	64	0.0775
13	13	2'-0"	64	0.0775
*10-3 TYP SELF TAPPING SCREWS				0.0775

BRIDGE DECK					GRADE C
MARK	GAGE	PITCH	LENGTH	NO.	THICKNESS
20	1/8"	7"	7'-10"	2440	0.0775
21	1/8"	7"	7'-10"	1000	0.0775
22	1/8"	7"	7'-10"	1000	0.0775

APPROVED  
 For Main Dimensions and Materials Only  
 JAN 9 1973  
 [Signature]

10" WEEP HOLES SHALL BE PROVIDED AT 12'-0" ALONG THE BOTTOM OF THE ENTIRE BRIDGE DECK JOINTS.

GENERAL NOTES & RECOMMENDATIONS

- BRIDGE DECK is roll formed from high strength structural steel sheet conforming to the yield and tensile requirements of ASTM Designation A446-71, Grade C.
- Steel for brack formed accessory sections will be structural steel sheet conforming to ASTM A446-71, Grade C.
- Galvanized coating for all BRIDGE DECK and accessory sections will be in conformance with ASTM A252-71, coating class B.
- Elevation of supports will be adjusted by the erector.
- All BRIDGE DECK sheets shall bear a minimum of 1/8" over lap.
- Each sheet shall be placed and secured before moving on to the next sheet.
- All cutting of BRIDGE DECK and accessory sections shall be done by saw.
- Care should be exercised during pouring operations use of normal heavily concentrated or impact loads on equipment shall be placed on the BRIDGE DECK.
- Concrete sidewalks containing rebar shall not be cast over permanent steel BRIDGE DECK.

FILE SET



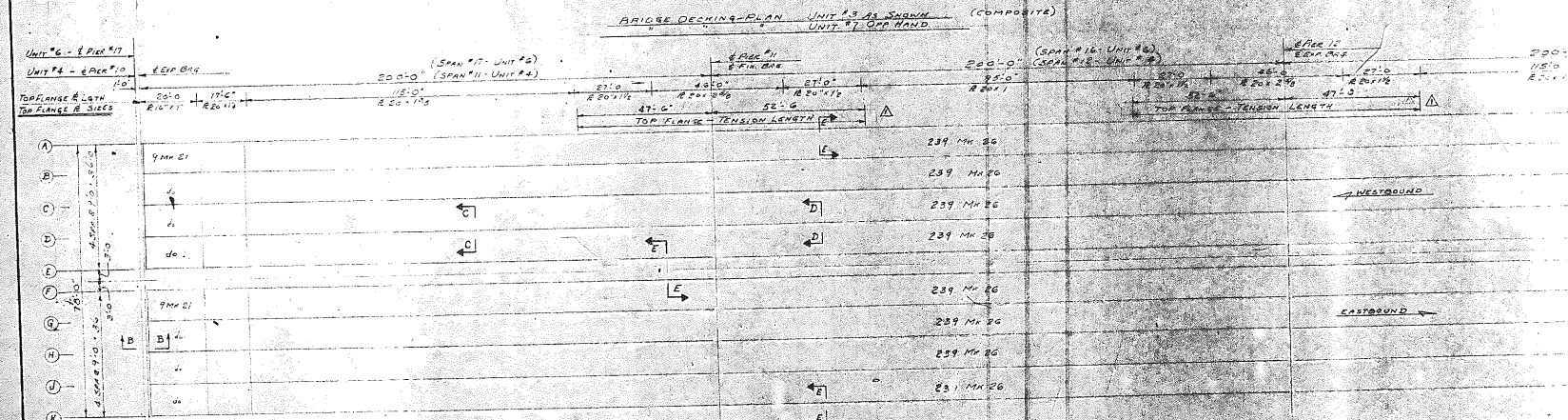
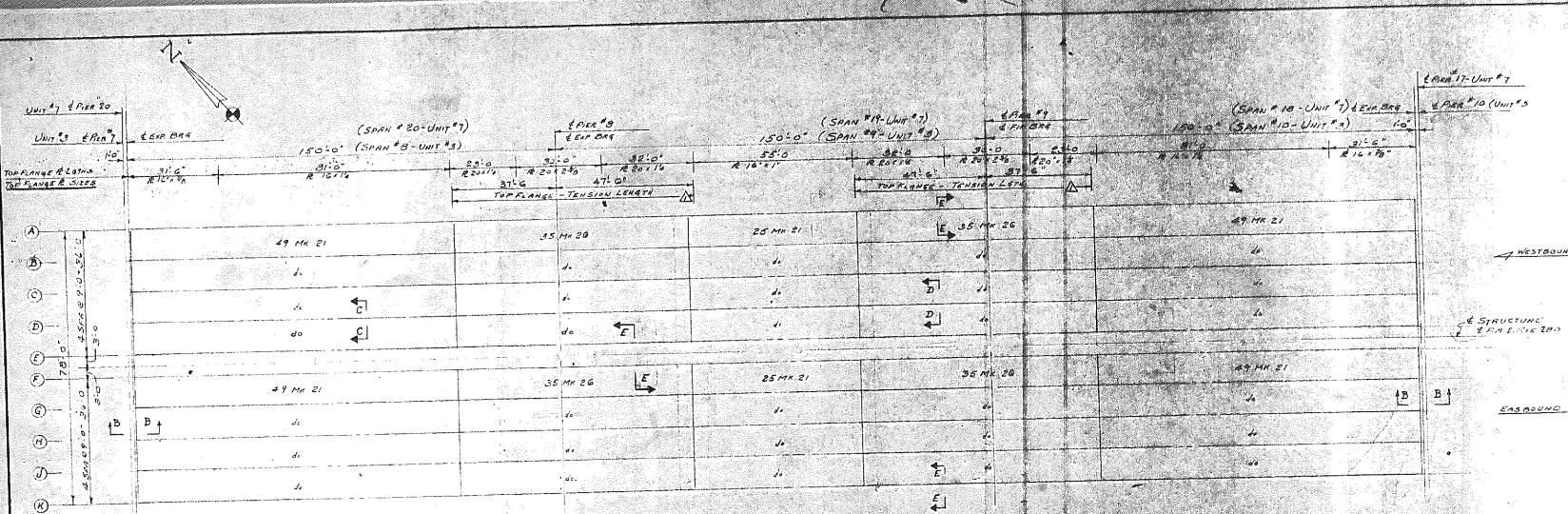
APPROVED FINAL DRAWINGS  
 ISSUED FOR  
 FILE, FABRICATION AND ERECTION

NO.	DATE	DESCRIPTION
1	12-17-72	ISSUE FOR SETS
2	1-11-73	REVISIONS PER COMMENTS
3	1-11-73	REVISIONS PER COMMENTS
4	1-11-73	REVISIONS PER COMMENTS

<b>REEVES-SOWMAN DIVISION</b> 1001 W. 10TH ST.   PITTSBURGH, PENN. 15222   412-781-1000		<b>UNITS No. 72-175</b>
<b>PRINTS ISSUED:</b> NO. 1 FOR APPROVAL NO. 2 FOR APPROVAL NO. 3 FOR APPROVAL	<b>REVISIONS:</b> DATE: 12-17-72 DESCRIPTION: ISSUED FOR SETS & REVISIONS PER COMMENTS	<b>CUSTOMER:</b> BRIGHTON BRIDGE <b>PROJECT:</b> I-76 SECTOR 01-D <b>LOCATION:</b> SCOTT COUNTY, IOWA <b>ARCHITECT:</b> DE LEUN, CATHER & ASSOCIATES <b>DATE:</b> 1-11-73 <b>CUSTOMER NO.:</b> <b>DATE:</b>







2 1/2 BLAT (8 1/4 x 10)

TYPE-1 TYPE-2 TYPE-3 TYPE-4 TYPE-5

TYPE-12 TYPE-13 TYPE-14

BRIDGEDECK ACCESSORIES

MARK	TYPE	LENGTH	NO.	THICKNESS
1	1	10'-0"	2186	0.0875
2	2	10'-0"	1194	0.0978
3	3	6'-0"	26	0.0186
7	7	2" WDR	5500	0.0072
9	9	15'-0"	1010	0.0072
12	12	3'-0"	64	0.0072
13	13	9'-0"	64	0.0072

1/4 x 3/4 TEK SELF TAPPING SCREWS 4,000

BRIDGEDECK

MARK	GAGE	DITCH	LENGTH	NO.
21	#1/8	7"	7'-6"	2176
26	#1/8	7"	7'-6"	4766
27	#1/8	7"	7'-6"	4766

APPROVED  
For Main Dimensions and Materials Only  
MAR 20 1973  
Engineer of Bridges & Traffic Structures

BRIDGE DECKING PLAN UNIT #3 AS SPANN (COMPOSITE) UNIT #1 OFF HAND

BRIDGE DECKING PLAN UNIT #4 AS SPANN (COMPOSITE) UNIT #6 OFF HAND

BRIDGEDECK  
28 COVER - 7" PITCH  
18 GA. SCREWS IN TO 5.500 IN

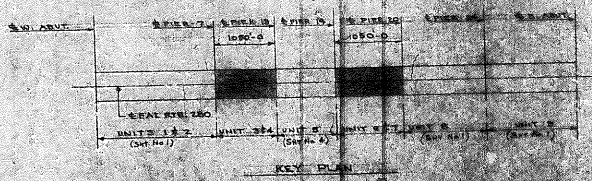
UNITS No. 3, 4, 5, 7

APPROVAL PRINT

PLEASE APPROVE AND RETURN PROMPTLY.

DELAY IN APPROVAL MAY RESULT IN LOSS OF POSITION IN PRODUCTION SCHEDULE CAUSING DELAYS IN SHIPMENT. DO NOT USE THIS PRINT FOR ERECTION PURPOSES. ERECTION DRAWINGS WILL BE SUPPLIED UPON APPROVAL.

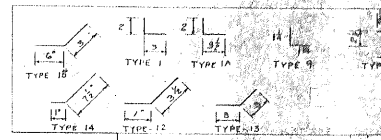
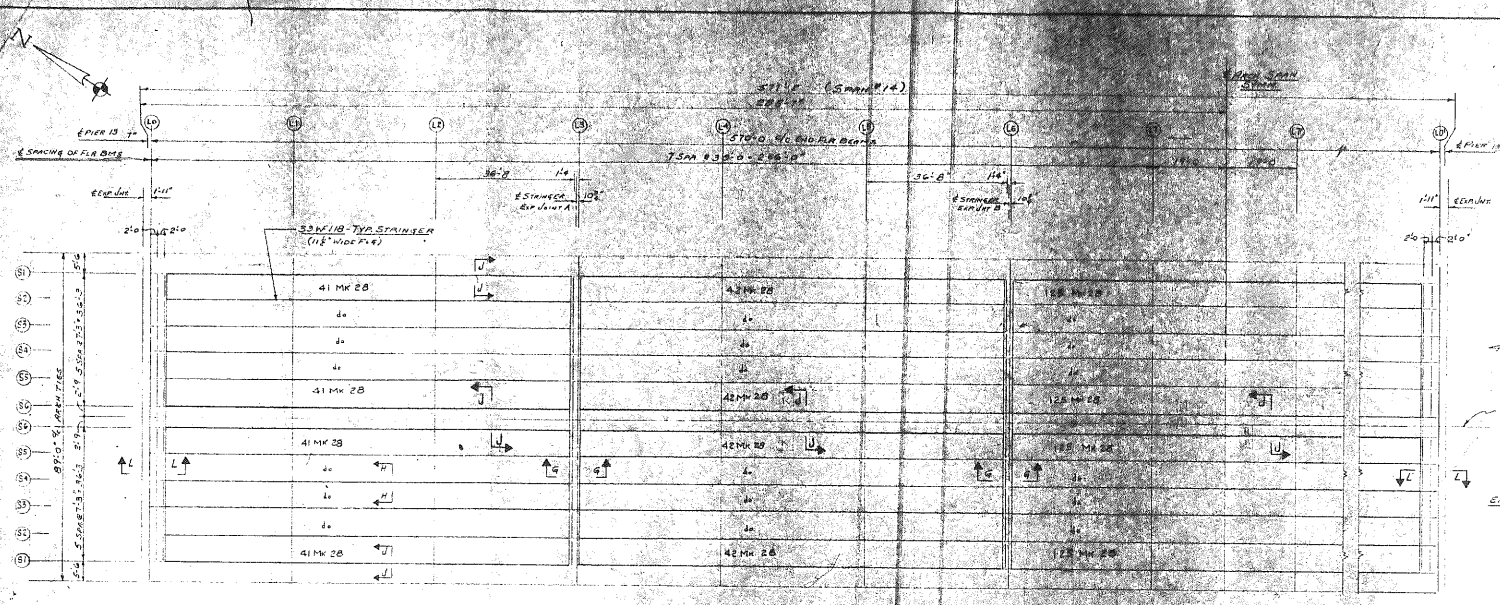
FOR SECTION 'L-L' SEE SHIT #4  
FOR SECTIONS 'B' THRU 'F' SEE SHIT #2  
FOR GENL NOTES SEE SHIT #1



PRINTS ISSUED		REVISIONS		CUSTOMER	
NO.	DATE	FOR	DATE	DESCRIPTION	BRITTON KAUG
0	1/20	APPROVAL	1/20	BRIDGE TENSION LENGTHS BRIDGE ACCESSORIES	BRIGHTON KAUG

PROJECT	KAJ RYE 280-SECTION 3RD RAPID-280-3 (2)
LOCATION	SCOTT COUNTY, IOWA - ROBERTS AND COUNTY, ILL.
ARCHITECT	DE LEON, SAUER & CO. ENGINEERS
DRAWN	KA
CHECKED	
DATE	1/22/73
SCALE	AS SHOWN
SHEET NO.	3

Bad copy



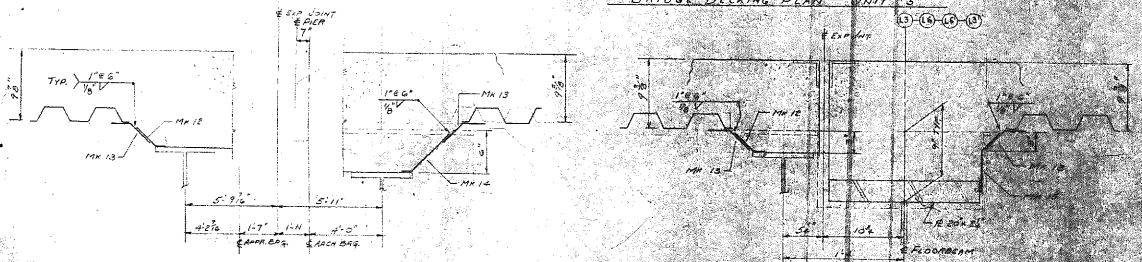
BRIDGE DECK ACCESSORIES					
MARK	TYPE	LENGTH	NO.	THICK.	GRADE
1	1	70'0"	1110	0.01	
7A	1A	15'0"	1110	0.01	
7	7	27'0"	1110	0.01	
9	9	17'0"	1210	0.02	
9A	9	17'0"	3500	0.02	
12	12	7'0"	40	0.02	
14	14	7'0"	20	0.02	
15	15	7'0"	40	0.02	

BRIDGE DECK ACCESSORIES					
MARK	GAGE	PITCH	LENGTH	NO.	GRADE
28	21	8'	5'11"	20	

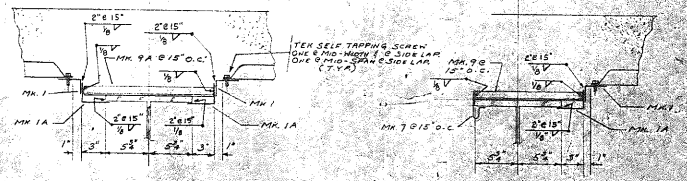
NOTE: No welding will be permitted to the top flange of the stringers for a distance of 75' in either direction from L1, L2, L3, L4, L5, L7, L11, L12, L13, L14, L15.

BRIDGE DECKING PLAN - UNITS



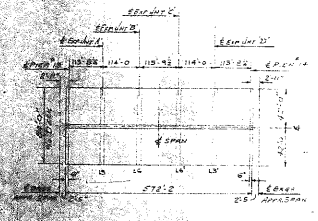
SECTION L-L

SECTION G-G



SECTION H-H

SECTION J-J



SECTION K-K

8/12/72(22)  
 FILE SET  
 I-280+8(52)0  
 FRA RTE 280  
 SECTION 81-1D  
 ROCK ISLAND COUNTY  
 C 92-004-69  
 CONTR. 170.100716

APPROVED  
 For Mass Drawings and Materials Only  
 MAR 20 1973

APPROVED FINAL DRAWINGS  
 ISSUED FOR FILES, FABRICATION AND ERECTION

FOR GEN'L NOTES SEE SHEET 1

PRINTS ISSUED		REVISIONS		CUSTOMER	
NO.	DATE	NO.	DATE	BY	DESCRIPTION
1	APPROVED 6/1/73	1	6/1/73		PRELIM DTD 1-28-73 GEN'L SPEC.
2	FILED DURING				

CUSTOMER		PROJECT		LOCATION		ARCHITECT		DRAWN		CHECKED	
BY	DATE	NO.	DATE	BY	DESCRIPTION	BY	DATE	BY	DATE	BY	DATE
BRIGHTON MAINE		I-280+8(52)0		SEASIDE COUNTY	IOWA ROCK ISLAND COUNTY, ILL.	DE LEUN, CATHER & CO. ENGINEERS					