

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

F.A. ROUTE 75
SECTION 12B
PEORIA - TAZEWELL COUNTIES
C-94-108-74

SECTION	SHEET	COUNTY	DATE	BY
75	12B	PEORIA-TAZEWELL	22	1

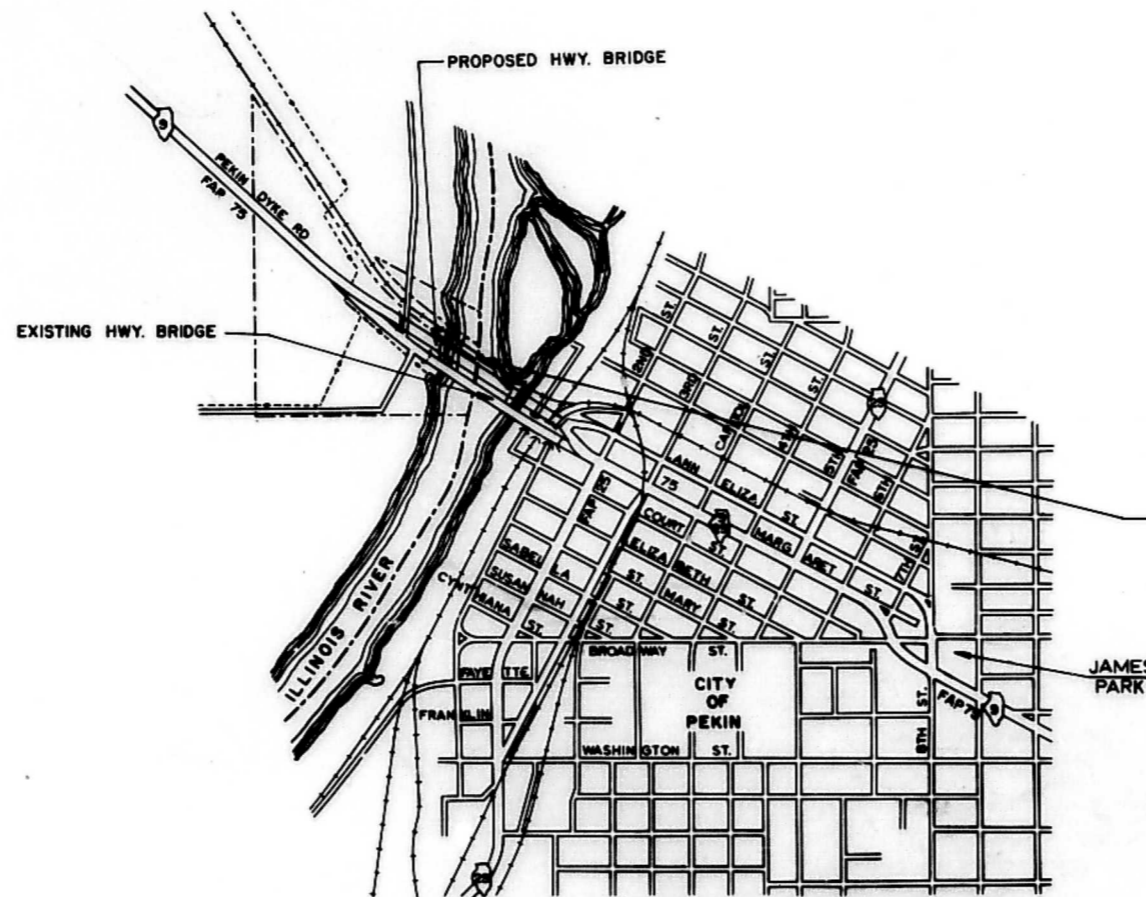
P-94-114-71



LOCATION OF SECTION INDICATED THUS:—

SHEET NO.	BRIDGE PLAN SHEET NO.	NAME
1		COVER SHEET - INDEX OF SHEETS
2		SUMMARY OF QUANTITIES
3		HORIZONTAL CONTROL DATA
4		CONTOUR GRADING PLAN
5	1	GENERAL PLAN AND ELEVATION
6	2	SUPERSTRUCTURE DETAILS
7	3	GENERAL NOTES AND TOTAL BILL OF MATERIAL
8	4	FOOTING LOCATION
9	5	PIER NO. 6
10	6	PIER NO. 7
11	7	PIER NO. 7
12	8	PIER NO. 8
13	9	PIER NO. 8
14	10	PIER NO. 9
15	11	BORINGS
16	12	BORINGS
17	13	BORINGS
18	14	BORINGS
19	15	BORINGS
20		CROSS-SECTIONS (EASTBOUND)
21		CROSS-SECTIONS (WESTBOUND)
22		PIER PROTECTION CELL DETAILS

STANDARDS: 2299-4, 2300-1



LAYOUT
SCALE 1" = 800'

PROPOSED IMPROVEMENT
INCLUDES SUBSTRUCTURE AND
EMBANKMENT FOR F.A. ROUTE 75
OVER THE ILLINOIS RIVER AT
STATION 96 + 50

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
DESIGNED BY	11-14-74
DRAWN BY	[Signature]
CHECKED BY	[Signature]
APPROVED BY	[Signature]
DIRECTOR OF HIGHWAYS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

F.A. ROUTE 75
SECTION 12B
PEORIA - TAZEWELL COUNTIES

C-94-108-74

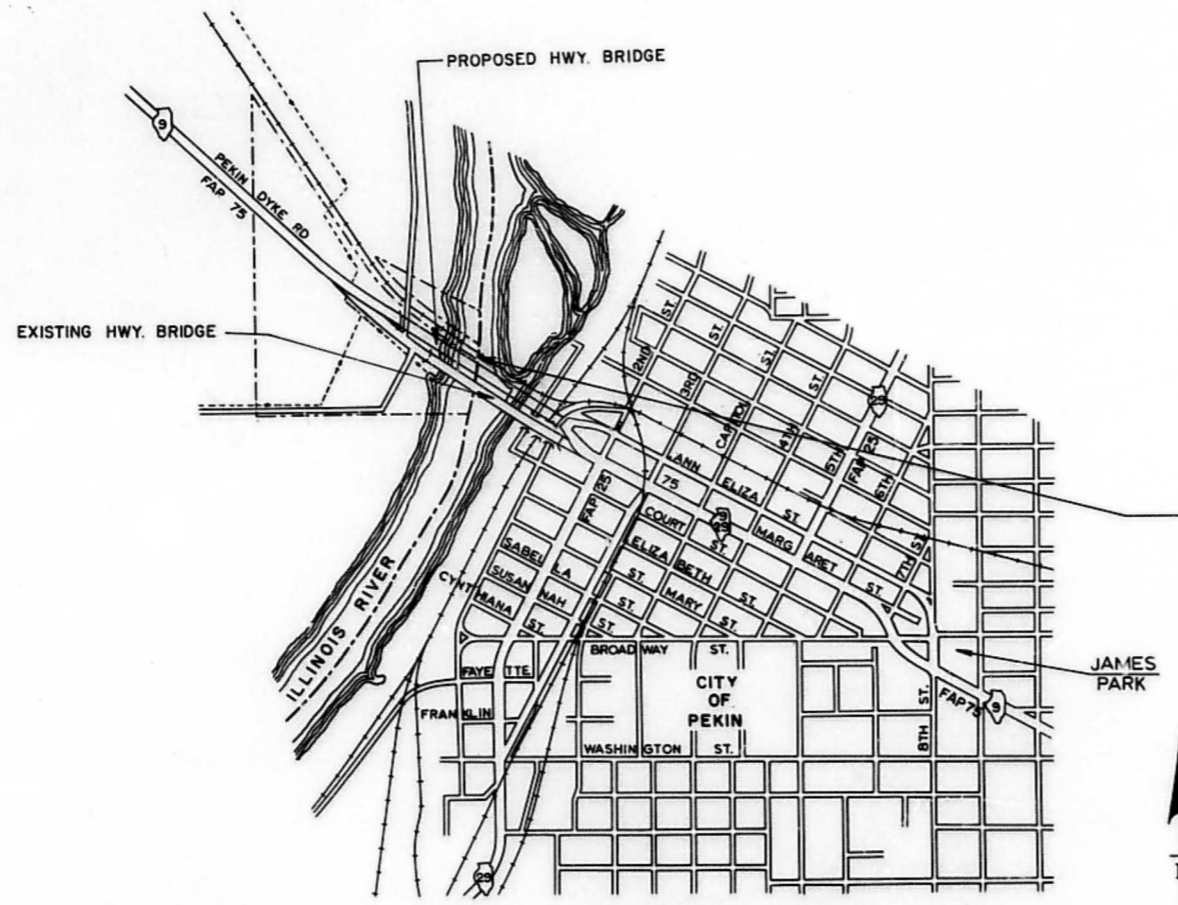
SECTION	SHEET	COUNTY	TOTAL SHEETS	SHEET NO.
75	12B	PEORIA-TAZEWELL	22	14

P-94-114-71

INDEX OF SHEETS		
SHEET NO.	BRIDGE PLAN SHEET NO.	NAME
1		COVER SHEET - INDEX OF SHEETS
2		SUMMARY OF QUANTITIES
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* 22		PIER PROTECTION CELL DETAILS

STANDARDS: 2299-4, 2300-1

* Includes sheets 9A, 10A, 11A, 12A, 13A, 14A & 22A.



LAYOUT
SCALE 1" = 800'

PROPOSED IMPROVEMENT
INCLUDES SUBSTRUCTURE AND EMBANKMENT FOR F.A. ROUTE 75 OVER THE ILLINOIS RIVER AT STATION 96 + 50

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
SUBMITTED	11-14-74
DESIGNED BY	<i>[Signature]</i>
EXAMINED	Nov 15 1974
PASSED	Nov 15 1974
APPROVED	Nov 15 1974
DIRECTOR OF HIGHWAYS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

75	12B	PEORIA-TAZEWELL	22	1B
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P-94-114-71

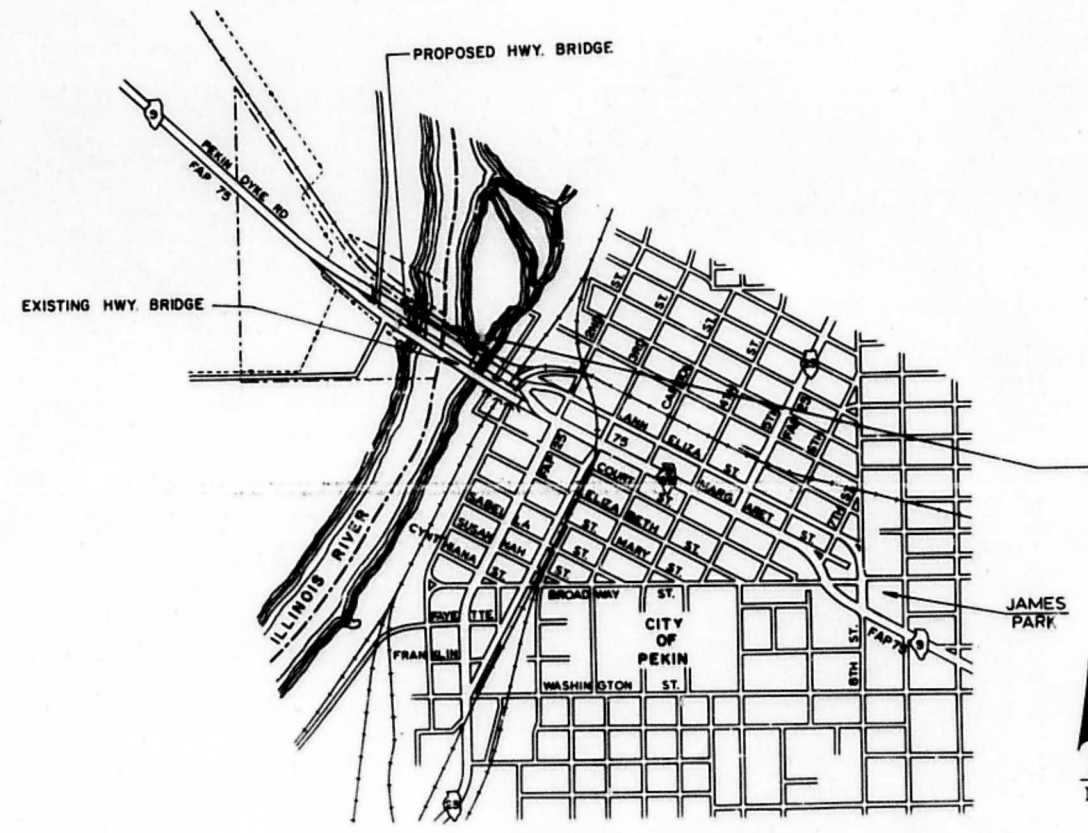
INDEX OF SHEETS		
SHEET NO.	BRIDGE PLAN SHEET NO.	NAME
* 1, 1B		COVER SHEET - INDEX OF SHEETS
2		SUMMARY OF QUANTITIES
3		HORIZONTAL CONTROL DATA
4		CONTOUR GRADING PLAN
5	1	GENERAL PLAN AND ELEVATION
6	2	SUPERSTRUCTURE DETAILS
7	3	GENERAL NOTES AND TOTAL BILL OF MATERIAL
8	4	FOOTING LOCATION
* 9, 9B	5	PIER NO. 6
* 10, 10B	6	PIER NO. 7
* 11	7	PIER NO. 7
* 12, 12B	8	PIER NO. 8
* 13	9	PIER NO. 8
* 14, 14B, 14BE	10	PIER NO. 9
15	11	BORINGS
16	12	BORINGS
17	13	BORINGS
18	14	BORINGS
19	15	BORINGS
20		CROSS-SECTIONS (EASTBOUND)
21		CROSS-SECTIONS (WESTBOUND)
* 22		PIER PROTECTION CELL DETAILS

F.A. ROUTE 75
SECTION 12B
PEORIA - TAZEWELL COUNTIES

C-94-108-74



* Includes sheets 1A, 9A, 10A, 11A, 12A, 13A, 14A & 22A



PROPOSED IMPROVEMENT
INCLUDES SUBSTRUCTURE AND
EMBANKMENT FOR F.A. ROUTE 75
OVER THE ILLINOIS RIVER AT
STATION 96 + 50

LAYOUT
SCALE 1" = 800'

AS REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
PROJECT NO.	11-14-74
DESIGNED BY	<i>[Signature]</i>
CHECKED BY	<i>[Signature]</i>
APPROVED BY	<i>[Signature]</i>
DIRECTOR OF HIGHWAYS	

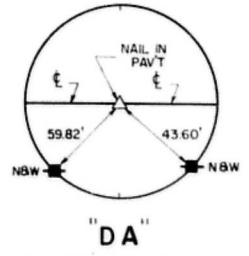
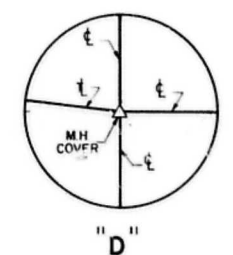
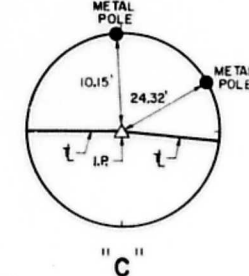
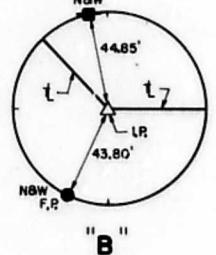
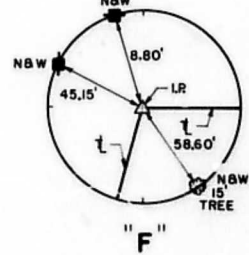
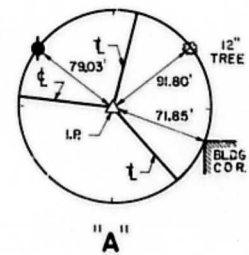
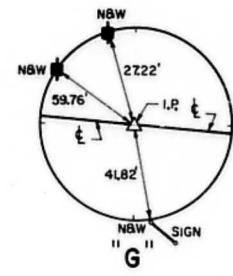
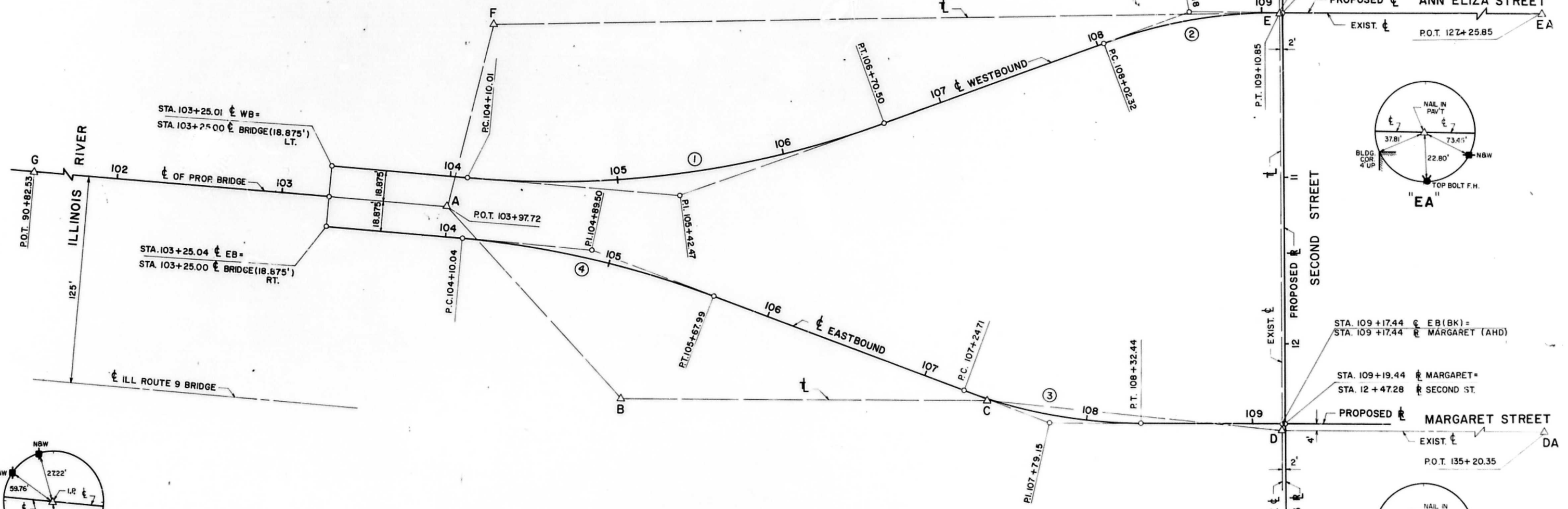
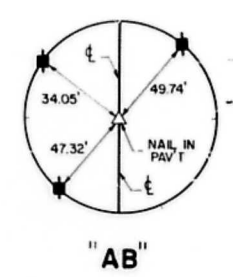
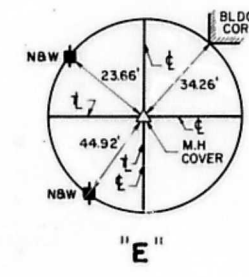
CONTRACT NO. 30404

F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	12 B	TAZEWELL	22	3
FED. ROAD DIV. NO.	ILLINOIS	PROJECT		

CURVE NO.	1	2	3	4
P.I.	STA. 105+42.47	STA. 108+57.18	STA. 107+79.15	STA. 104+89.50
Δ	25°36'02"	20°37'10"	20°28'05"	15°31'22"
D	9°49'40"	19°00'00"	19°00'00"	9°49'40"
R	583.00'	301.56'	301.56'	583.00'
T	132.46'	54.86'	54.44'	79.46'
L	260.49'	108.53'	107.73'	157.95'
E	14.86'	4.95'	4.87'	5.39'
S	0.04%	0.04%	0.04%	0.04%
P.C.	STA. 104+10.01	STA. 108+02.32	STA. 107+24.71	STA. 104+10.04
P.T.	STA. 106+70.50	STA. 109+10.85	STA. 108+32.44	STA. 105+67.99

ANGLES (CLOCKWISE)	
G-A-F	99°04'03"
F-A-B	123°37'19"
E-F-A	105°09'31"
D-E-F	89°21'29"
C-D-E	83°44'11"
B-C-D	185°51'00"
A-B-C	132°16'30"
EA-E-F	178°53'22"
D-E-AB	180°00'57"
C-D-DA	174°14'35"

DISTANCES	
A TO B	155.45'
B TO C	219.86'
C TO D	177.79'
D TO E	251.28'
E TO F	472.08'
F TO A	112.85'



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL DATA

SCALE: 1" = 30'

THE ENGINEERS COLLABORATIVE CHICAGO ILLINOIS	SHEET OF
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F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	12 B	TAZEWELL	22	4
FED. ROAD DIV. NO.		ILLINOIS	PROJECT	



NOTE: For limits of earthwork "This Contract", see Cross Sections.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

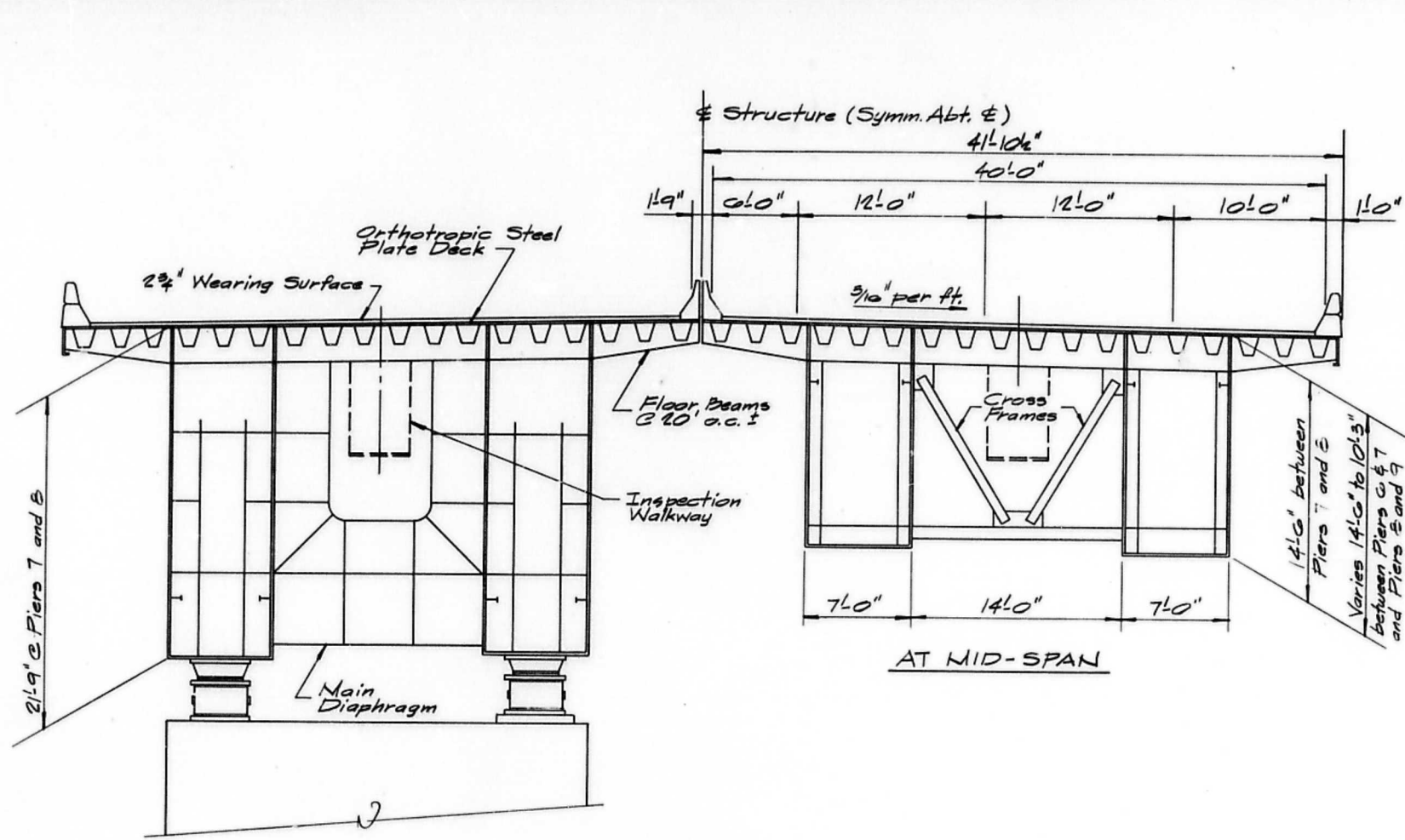
CONTOUR GRADING PLAN

SCALE: 1" = 20'

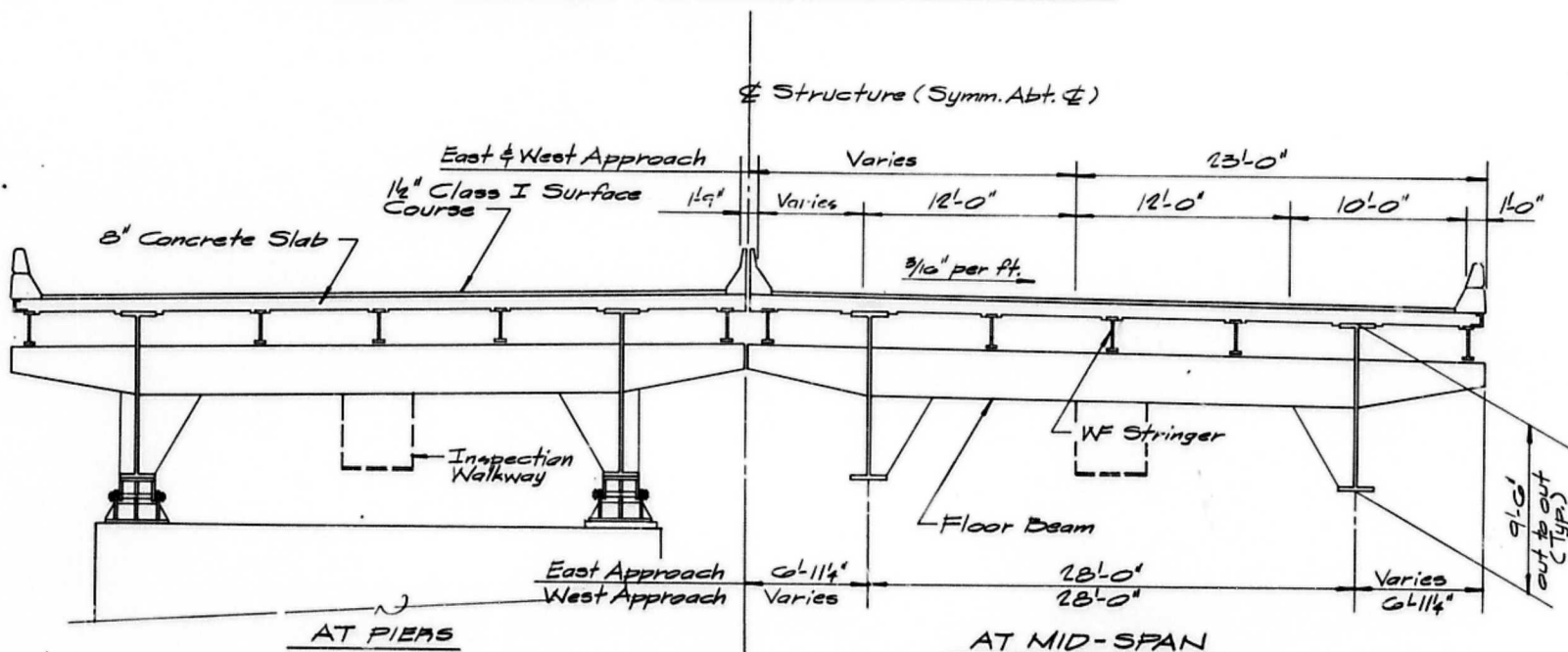
THE ENGINEERS COLLABORATIVE
 CHICAGO ILLINOIS

SHEET
 OF

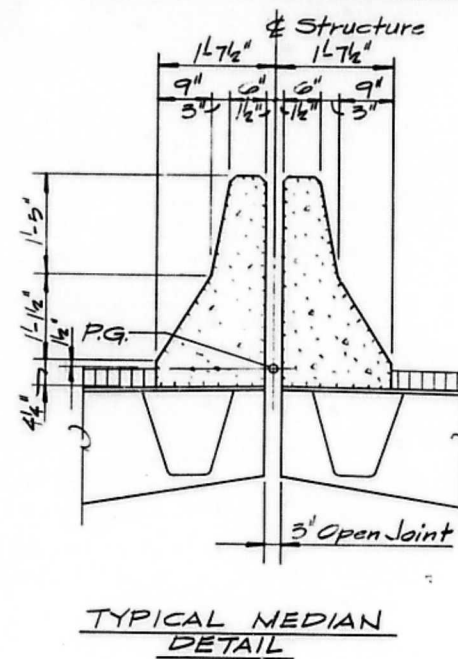
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	6
FED. ROAD DIV. NO.		ILLINOIS	PROJECT	



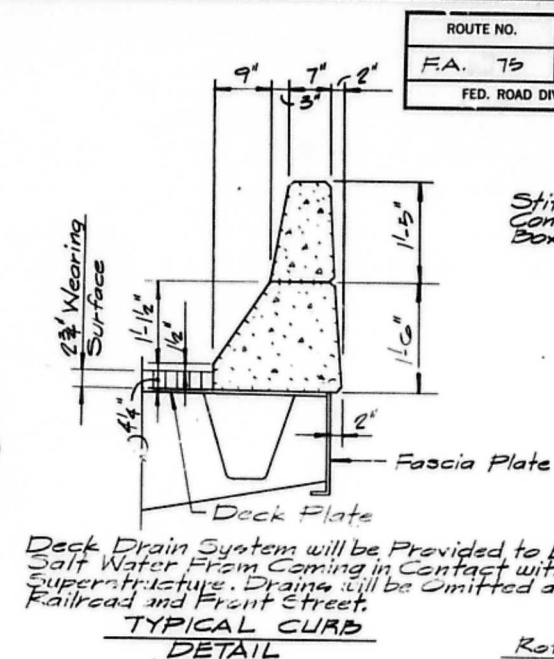
AT PIERS
TYPICAL SECTION THRU MAIN RIVER SPANS



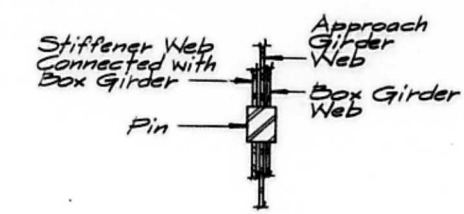
AT PIERS
TYPICAL SECTION THRU APPROACH SPANS



TYPICAL MEDIAN DETAIL

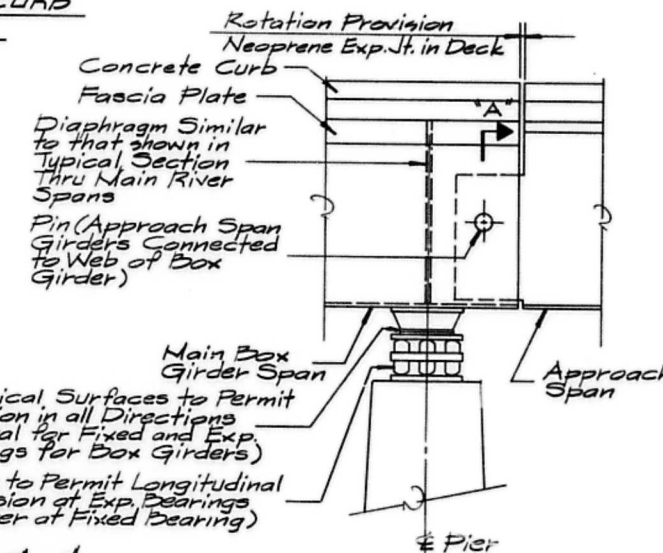


TYPICAL CURB DETAIL

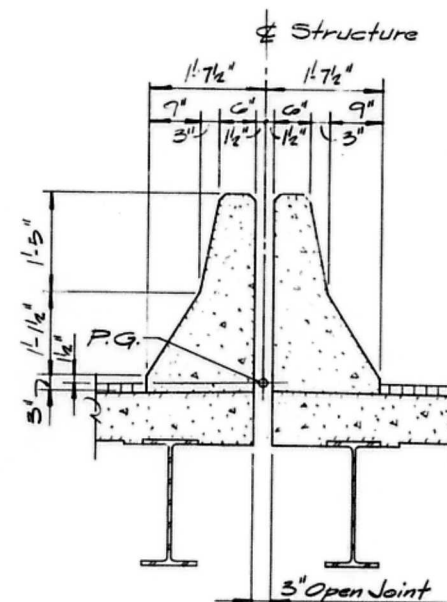


SECTION "A"
 Scale: 3/8" = 1-0"

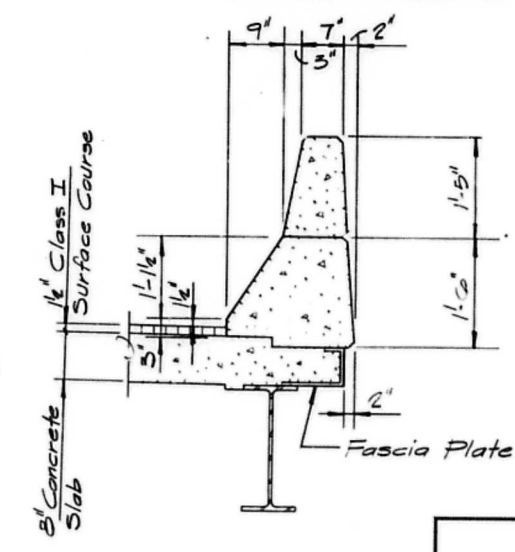
MAIN RIVER SPAN



TYPICAL DETAIL AT PIERS 6 & 9



TYPICAL MEDIAN DETAIL



TYPICAL CURB DETAIL

APPROACH SPAN

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 SUPERSTRUCTURE DETAILS
 PROJECT:
 ILL. 9 over ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+50

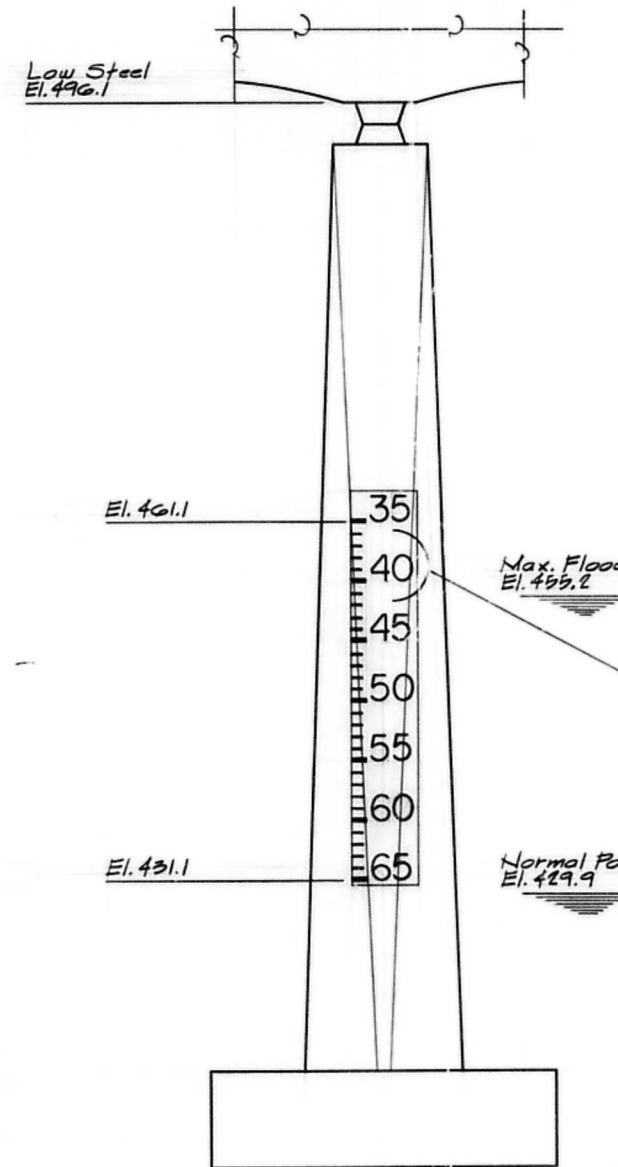
GENERAL NOTES

1. THE CONTRACTOR SHALL DRIVE FOUR STEEL TEST PILES, ONE AT EACH PIER, IN A PERMANENT LOCATION, AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.
2. ALL PIERS, INCLUDING BASE WALLS, SHALL BE CONSTRUCTED OF MONOLITHICALLY PLACED CONCRETE, WITHOUT CONSTRUCTION JOINTS, FULL HEIGHT FROM TOP OF FOOTING.
3. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL BARS CONFORMING TO AASHTO M51 (F_y = 60,000 psi).
4. ALL REINFORCING BARS #11 OR SMALLER SHALL BE LAPPED AS SHOWN IN TABLE A.
5. LAP SPLICES SHALL NOT BE USED FOR BARS LARGER THAN #11 OR #11 BARS WITH 14S OR 18S BARS. WELDED SPLICES OR OTHER POSITIVE CONNECTIONS WHICH DEVELOP AT LEAST 125 PER CENT OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION OR COMPRESSION MAY BE USED SUBJECT TO THE APPROVAL OF THE ENGINEER.
6. ALL WELDING OF REINFORCEMENT BARS SHALL CONFORM TO RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL, METAL INSERTS, AND CONNECTIONS IN REINFORCED CONCRETE CONSTRUCTION" (AWS D12.1).
7. ALL EDGES SHALL HAVE STANDARD 3/4" CHAMFERS EXCEPT AS NOTED.

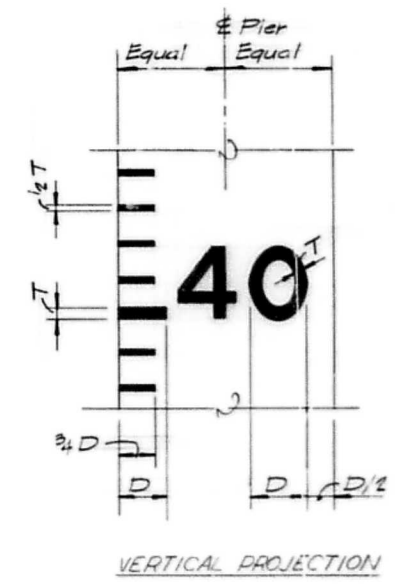
Bar Size *	Lap Dimension	
	Vent. Bars	Horiz. Bars
#4	16"	23"
#5	21"	29"
#6	27"	37"
#7	36"	51"
#8	47"	66"
#9	59"	83"
#10	76"	106"
#11	93"	131"

* Lap Dimension For Two Different Bar Sizes Shall Be Based On The Larger Bar

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	7
FED. ROAD DIV. NO.		ILLINOIS	PROJECT	



- NOTES:
1. NUMERALS SHALL CONFORM TO 24" SERIES D.
 2. SIZE, TYPE AND SPACING OF NUMERALS SHALL CONFORM TO THOSE PUBLISHED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS," BUREAU OF PUBLIC ROADS, DEPARTMENT OF TRANSPORTATION.
 3. NUMERALS AND FOOT MARKS SHALL BE PAINTED BLACK ON A WHITE BACKGROUND.
 4. For painting see Special Provisions.



TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Structure Excavation	Cu.Yd.	—	1403	1403
Cofferdam Excavation	Cu.Yd.	—	5697	5697
Cofferdams (Piers 7 and 8)	Each	—	2	2
Class X Concrete	Cu.Yd.	—	6264.3	6264.3
Seal Coat Concrete	Cu.Yd.	—	1931.0	1931.0
Reinforcing Bars	Lbs.	—	674,780	674,780
Furnishing Steel Piles 14BP117	Lin.Ft.	—	29,252	29,252
Driving Steel Piles	Lin.Ft.	—	29,252	29,252
Test Piles 14BP117	Each	—	4	4
Pier Protection Cells	Each	—	2	2

CLEARANCE GAUGE DETAILS

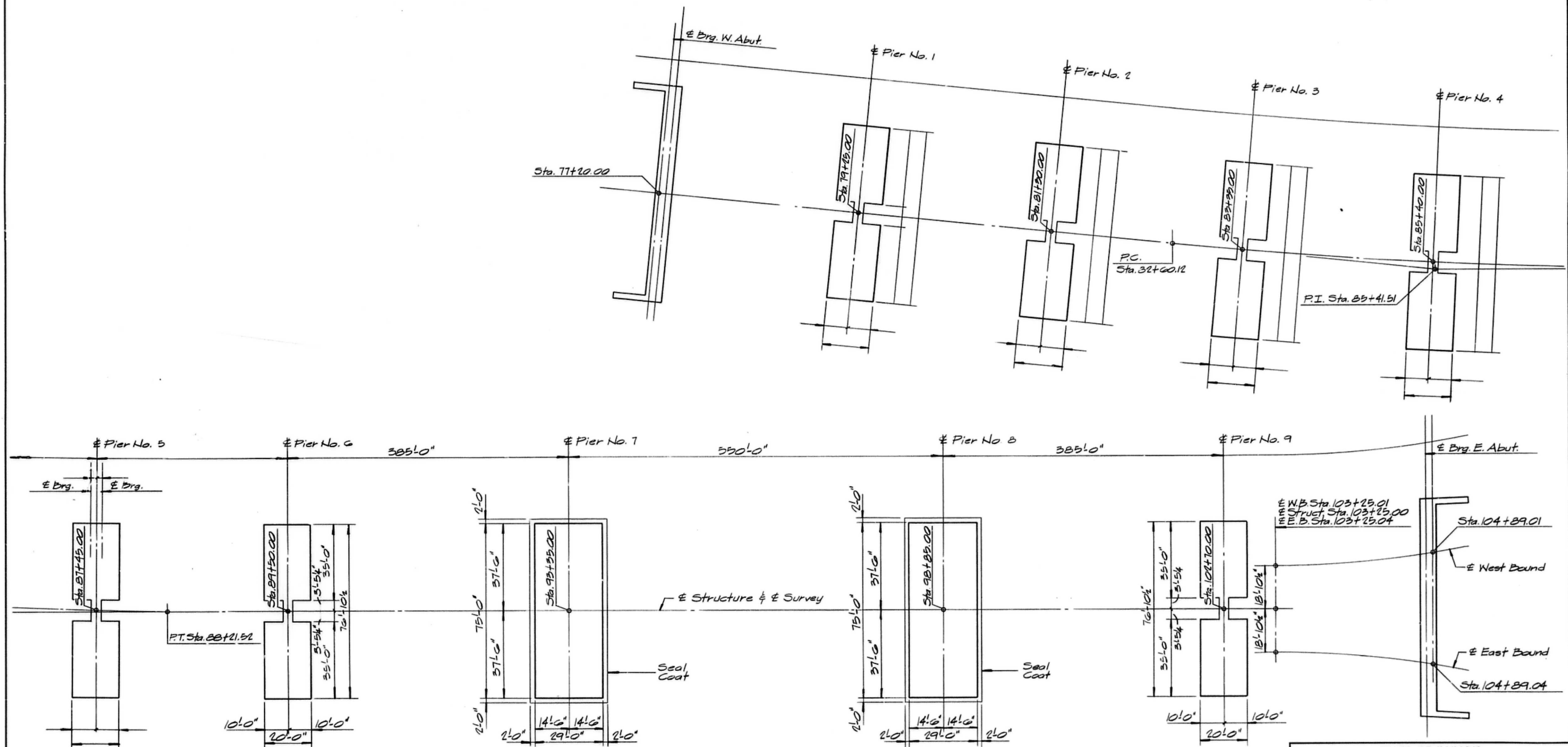
Pier #7 - Locate on Upstream Face
 Pier #8 - Locate on Downstream Face

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
GENERAL NOTES
AND TOTAL BILL OF MATERIAL
 PROJECT:
 ILL. 9 over ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+50

THE ENGINEERS COLLABORATIVE
 CHICAGO ILLINOIS

SHEET
 3 OF 11

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	8
FED. ROAD DIV. NO.	ILLINOIS	PROJECT		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FOOTING LOCATION
PROJECT:
ILL. 9 over ILLINOIS RIVER
F.A.P. 75 SECTION 12B
PEORIA-TAZEWELL COUNTIES
STA. 96+50

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	9
FED. ROAD DIV. NO.		ILLINOIS	PROJECT	

Note: Bars indicated 20x3-5 etc. indicates 20 lines of bars with 3 lengths per line.

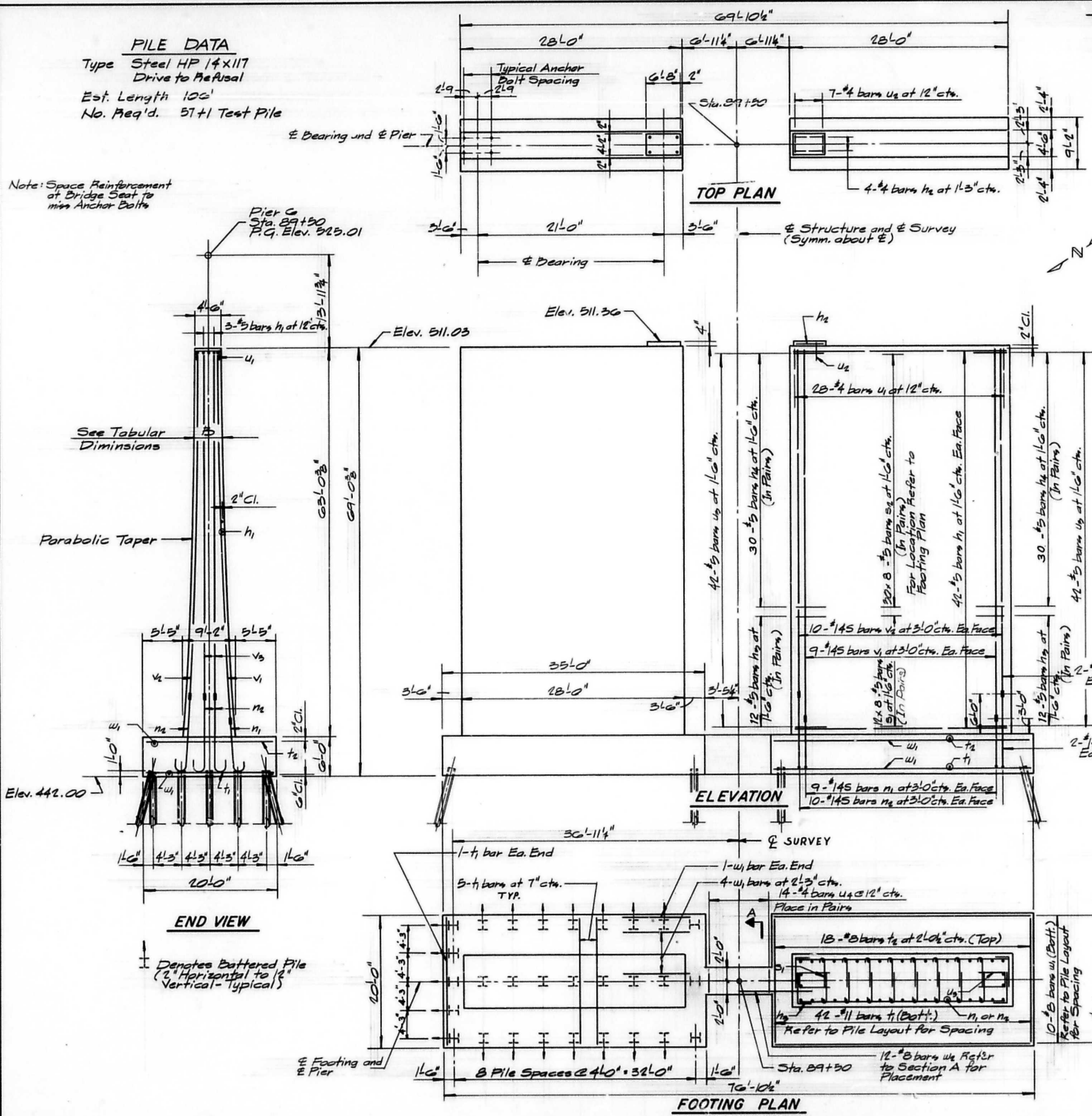
PILE DATA
 Type Steel HP 14x117
 Drive to Refusal
 Est. Length 100'
 No. Req'd. 57+1 Test Pile

Note: Space Reinforcement of Bridge Seat to min Anchor Bolts

TABULAR DIMENSIONS FOR PIER G

Distance in Feet From Top of Pier (Feet)

0.00	4.50
1.00	4.50
2.00	4.50
3.00	4.51
4.00	4.51
5.00	4.52
6.00	4.54
7.00	4.55
8.00	4.57
9.00	4.59
10.00	4.61
11.00	4.64
12.00	4.66
13.00	4.69
14.00	4.73
15.00	4.76
16.00	4.80
17.00	4.83
18.00	4.88
19.00	4.92
20.00	4.97
21.00	5.01
22.00	5.06
23.00	5.12
24.00	5.17
25.00	5.23
26.00	5.29
27.00	5.35
28.00	5.42
29.00	5.48
30.00	5.55
31.00	5.62
32.00	5.70
33.00	5.78
34.00	5.85
35.00	5.94
36.00	6.02
37.00	6.10
38.00	6.19
39.00	6.28
40.00	6.38
41.00	6.47
42.00	6.57
43.00	6.67
44.00	6.77
45.00	6.88
46.00	6.98
47.00	7.09
48.00	7.20
49.00	7.32
50.00	7.43
51.00	7.55
52.00	7.67
53.00	7.80
54.00	7.92
55.00	8.05
56.00	8.18
57.00	8.32
58.00	8.45
59.00	8.59
60.00	8.73
61.00	8.87
62.00	9.01
63.00	9.16
64.00	9.31

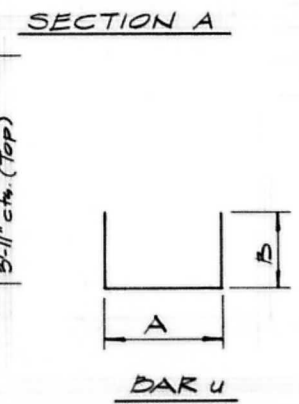


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁	174	#5	27'-6"	---
h ₂	8	#4	6'-4"	---
h ₃	96	#5	8'-0"	---
h ₄	240	#5	7'-0"	---
n ₁	36	#14S	10'-8"	C---
n ₂	48	#14S	13'-8"	C---
v ₁	36	#14S	59'-9"	---
v ₂	40	#14S	56'-9"	---
v ₃	8	#14S	56'-9"	---
s ₁	384	#5	6'-2"	C---
s ₂	960	#5	5'-2"	C---
u ₁	56	#4	5'-7"	---
u ₂	14	#4	5'-3"	---
u ₃	168	#5	6'-5"	---
u ₄	14	#4	11'-0"	---
t ₁	84	#11	19'-6"	---
t ₂	36	#8	19'-6"	---
w ₁	32	#8	34'-6"	---
w ₂	12	#8	22'-0"	---
Class X Concrete Cu.Yds. 1108.8				
Reinforcing Bars Lbs. 76222				
Steel H Piles Lin.Ft. 90012				
Test Piles Ea. 1				

BAR h₃ and h₄

Bar	A	B
h ₃	5'-7"	2'-5"
h ₄	4'-7"	2'-5"
n ₁	8'-6"	2'-2"
n ₂	11'-6"	2'-2"
s ₁	5'-7"	7"
s ₂	4'-7"	7"
u ₁	4'-2"	1'-5"
u ₂	3'-8"	1'-7"
u ₃	1'-7"	3'-5"
u ₄	3'-8"	3'-8"



* Reinforcing bars shall be shop bent to conform to the tabular pier dimensions shown

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
PIER G
 PROJECT:
 ILL. 9 over ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+30

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	9 A
FED. ROAD DIV. NO.		ILLINOIS PROJECT		

Note: Bars indicated 20x3-5 etc. indicates 20 lines of bars with 3 lengths per line.

TABULAR DIMENSIONS FOR PIER G

Distance in Feet From Top of Pier (Feet)

0.00	4.50
1.00	4.50
2.00	4.50
3.00	4.51
4.00	4.51
5.00	4.52
6.00	4.54
7.00	4.55
8.00	4.57
9.00	4.59
10.00	4.61
11.00	4.64
12.00	4.66
13.00	4.69
14.00	4.73
15.00	4.75
16.00	4.80
17.00	4.83
18.00	4.88
19.00	4.92
20.00	4.97
21.00	5.01
22.00	5.06
23.00	5.12
24.00	5.17
25.00	5.23
26.00	5.29
27.00	5.35
28.00	5.42
29.00	5.48
30.00	5.55
31.00	5.62
32.00	5.70
33.00	5.78
34.00	5.85
35.00	5.94
36.00	6.02
37.00	6.10
38.00	6.19
39.00	6.28
40.00	6.38
41.00	6.47
42.00	6.57
43.00	6.67
44.00	6.77
45.00	6.86
46.00	6.98
47.00	7.09
48.00	7.20
49.00	7.32
50.00	7.43
51.00	7.55
52.00	7.67
53.00	7.80
54.00	7.92
55.00	8.05
56.00	8.18
57.00	8.32
58.00	8.45
59.00	8.59
60.00	8.73
61.00	8.87
62.00	9.01
63.00	9.16
64.00	9.31

BILL OF MATERIAL

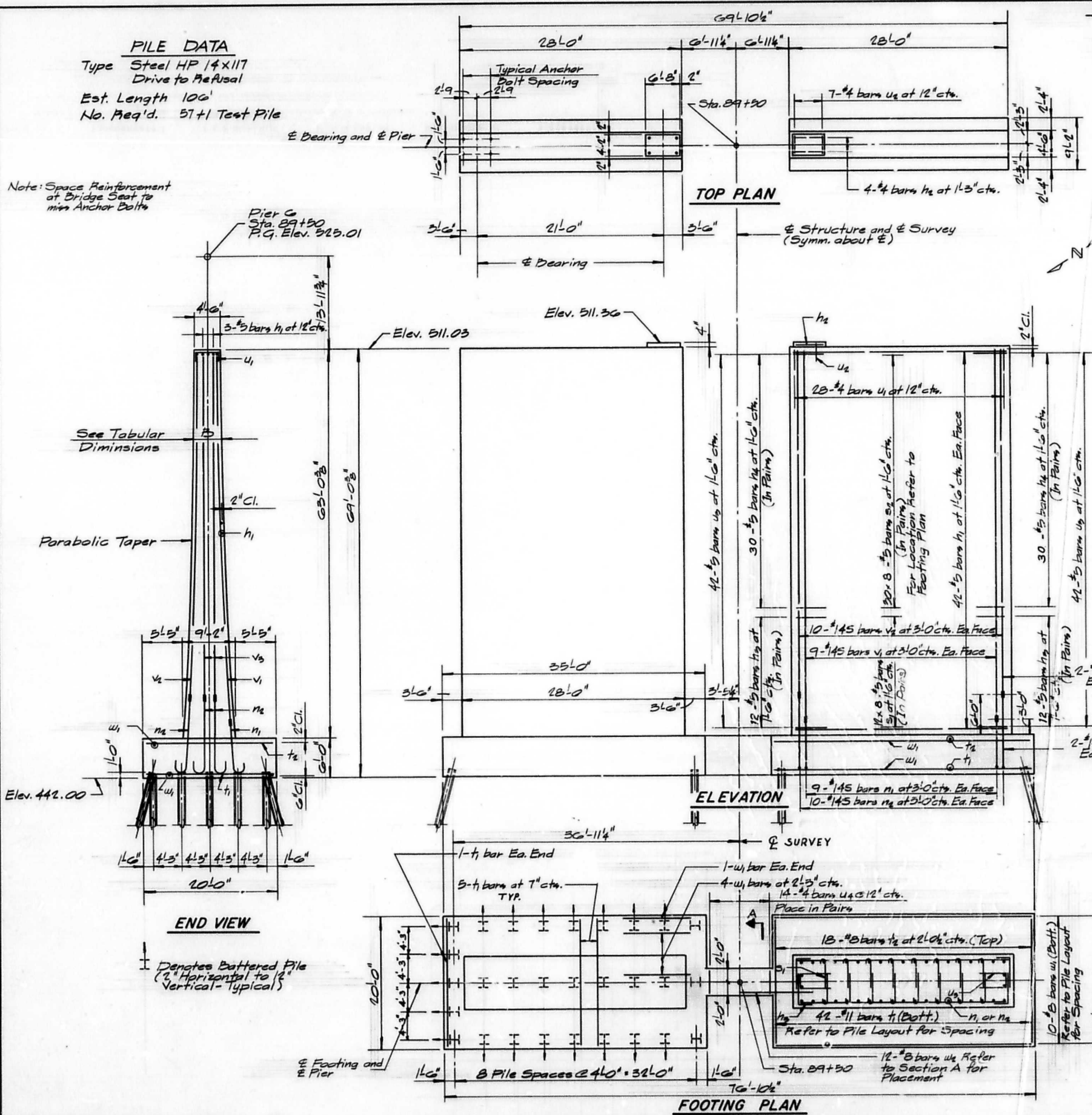
Bar	No.	Size	Length	Shape
h ₁	174	#5	27'-6"	—
h ₂	8	#4	6'-4"	—
h ₃	96	#5	8'-0"	—
h ₄	240	#5	6'-7"	—
n ₁	36	#14S	10'-8"	C
n ₂	48	#14S	13'-8"	C
v ₁	36	#14S	59'-9"	—
v ₂	40	#14S	56'-9"	—
v ₃	8	#14S	56'-9"	—
s ₁	384	#5	6'-2"	C
s ₂	960	#5	5'-2"	C
u ₁	56	#4	7'-0"	—
u ₂	14	#4	6'-10"	—
u ₃	168	#5	8'-1"	—
u ₄	14	#4	11'-0"	—
t ₁	84	#11	19'-6"	—
t ₂	36	#8	19'-6"	—
w ₁	32	#8	34'-6"	—
w ₂	12	#8	22'-0"	—
Class X Concrete Cu.Yds. 1108.8				
Reinforcing Bars Lbs. 76,460				
Steel H Piles Lin.Ft. 6042				
Test Piles Ea. 1				

* Reinforcing bars shall be shop bent to conform to the tabular pier dimensions shown

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PIER G
PROJECT:
ILL. 9 over ILLINOIS RIVER
F.A.P 75 SECTION 12B
PEORIA-TAZEWELL COUNTIES
STA. 96+50

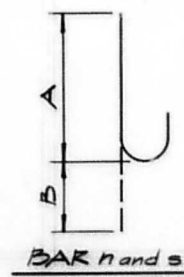
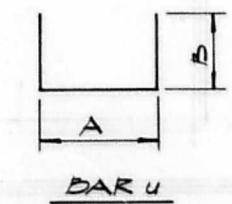
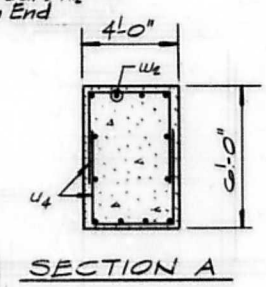
PILE DATA
Type Steel HP 14x117
Drive to Refusal
Est. Length 106'
No. Req'd. 57+1 Test Pile

Note: Space Reinforcement at Bridge Seat to min Anchor Bolts



BAR h₃ and h₄

Bar	A	B
h ₃	5'-7"	2'-5"
h ₄	4'-2"	2'-5"
n ₁	8'-6"	2'-2"
n ₂	11'-6"	2'-2"
s ₁	5'-7"	7"
s ₂	4'-7"	7"
u ₁	4'-2"	1'-5"
u ₂	3'-8"	1'-7"
u ₃	1'-7"	3'-3"
u ₄	3'-8"	3'-8"



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	9B
FED. ROAD DIV. NO.	ILLINOIS PROJECT			

PILE DATA
 Type Steel HP 14x117
 Drive to Refusal
 Est. Length 106'
 No. Req'd. 57+1 Test Pile

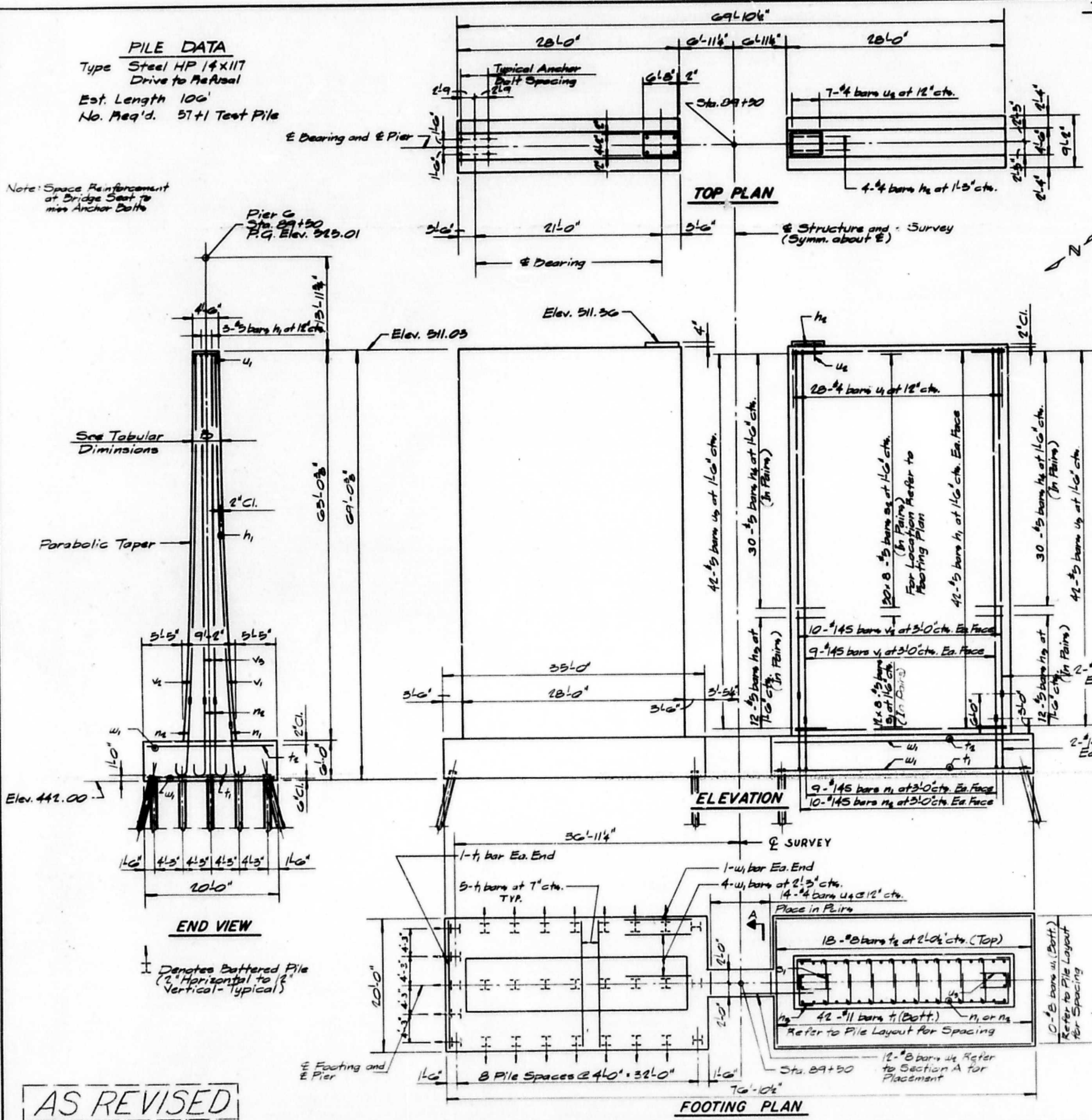
Note: Space Reinforcement at Bridge Seat to min Anchor Bolts

TABULAR DIMENSIONS FOR PIER G

Distance in Feet from Top of Pier	B (Feet)
0.00	4.50
1.00	4.50
2.00	4.51
3.00	4.51
4.00	4.51
5.00	4.52
6.00	4.54
7.00	4.55
8.00	4.57
9.00	4.57
10.00	4.61
11.00	4.64
12.00	4.64
13.00	4.64
14.00	4.73
15.00	4.74
16.00	4.80
17.00	4.83
18.00	4.84
19.00	4.92
20.00	4.97
21.00	5.01
22.00	5.06
23.00	5.12
24.00	5.17
25.00	5.23
26.00	5.23
27.00	5.23
28.00	5.42
29.00	5.44
30.00	5.55
31.00	5.62
32.00	5.70
33.00	5.78
34.00	5.85
35.00	5.88
36.00	6.02
37.00	6.17
38.00	6.14
39.00	6.20
40.00	6.35
41.00	6.47
42.00	6.57
43.00	6.67
44.00	6.77
45.00	6.88
46.00	6.91
47.00	7.09
48.00	7.20
49.00	7.32
50.00	7.43
51.00	7.55
52.00	7.67
53.00	7.80
54.00	7.92
55.00	8.05
56.00	8.18
57.00	8.32
58.00	8.45
59.00	8.59
60.00	8.73
61.00	8.87
62.00	9.01
63.00	9.15
64.00	9.31

Note: Bars indicated 20x3-5 etc. indicates 20 lines of bars with 3 lengths per line.

Note: For additional reinforcement see sheet 14BB.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁	174	#5	27'-0"	—
h ₂	8	#4	6'-4"	—
h ₃	96	#5	8'-0"	—
h ₄	240	#5	6'-7"	—
n ₁	56	#145	10'-8"	C
n ₂	48	#145	13'-8"	C
v ₁	56	#145	59'-9"	—
v ₂	40	#145	26'-9"	—
v ₃	8	#145	26'-9"	—
s ₁	384	#5	6'-2"	C
s ₂	960	#5	5'-2"	C
u ₁	56	#4	7'-0"	—
u ₂	14	#4	6'-10"	—
u ₃	168	#5	8'-7"	—
u ₄	14	#4	11'-0"	—
t ₁	84	#11	19'-0"	—
t ₂	36	#8	19'-0"	—
w ₁	32	#8	3'-6"	—
w ₂	12	#8	22'-0"	—
Class X Concrete				Cu.Yds. 1108.8
Reinforcing Bars				Lbs. 72+60
Steel H Piles				Lin.Ft. 6042
Test Piles				Ea. 1

BAR h₃ and h₄

Bar	A	B
h ₃	5'-7"	2'-5"
h ₄	4'-2"	2'-5"
n ₁	8'-0"	2'-2"
n ₂	11'-0"	2'-2"
s ₁	5'-7"	7"
s ₂	4'-7"	7"
u ₁	4'-2"	1'-5"
u ₂	3'-8"	1'-7"
u ₃	1'-7"	3'-3"
u ₄	5'-8"	3'-8"

* Reinforcing bars shall be shop bent to conform to the tabular pier dimensions shown

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
PIER G
 PROJECT:
 ILL RIVER ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+50

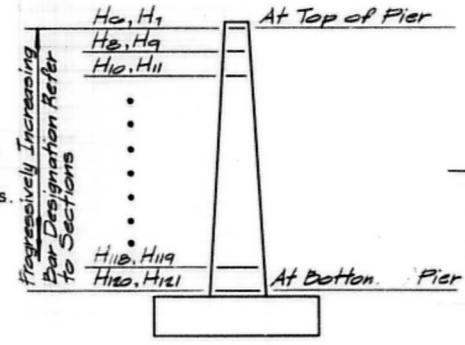
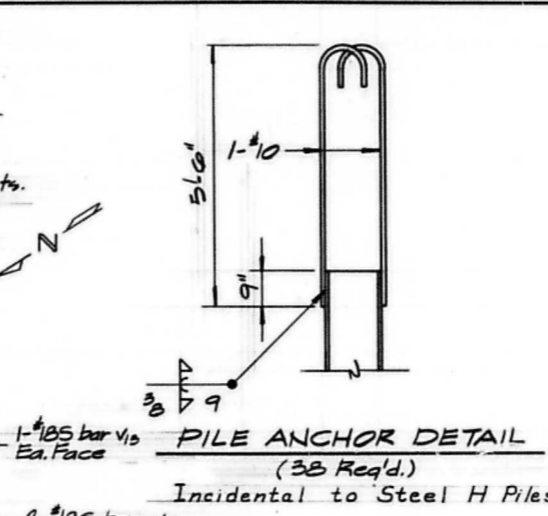
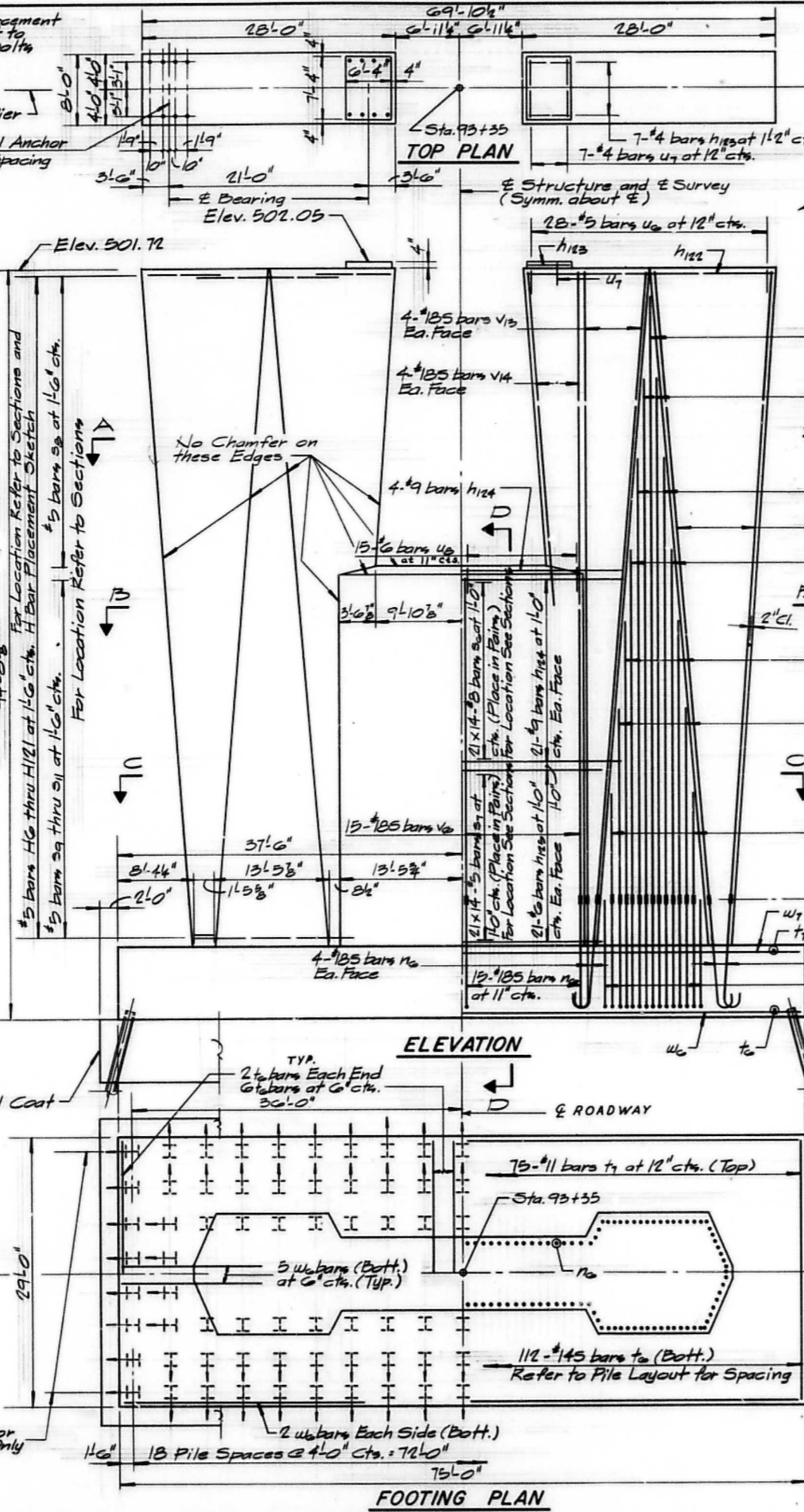
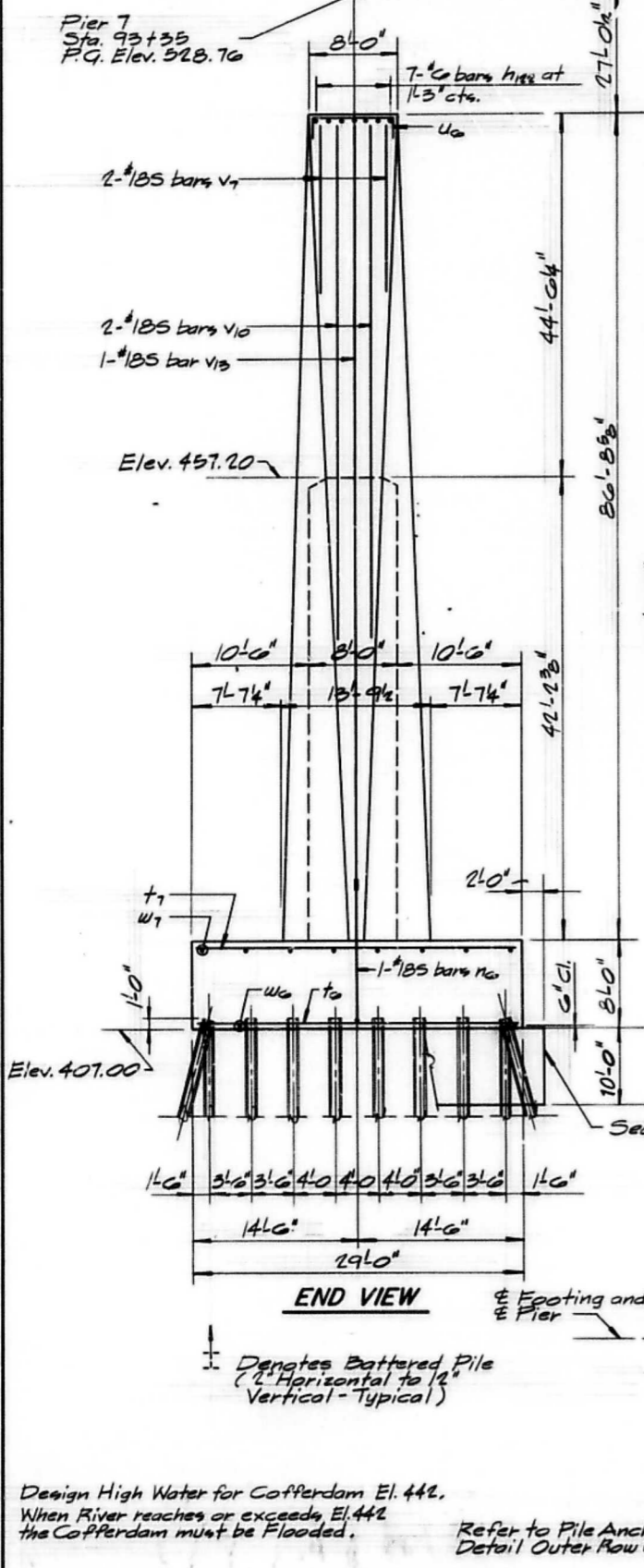
AS REVISED

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	10
FED. ROAD DIV. NO.	ILLINOIS PROJECT			

Note: Bars indicated 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

PILE DATA
 Type Steel-HP 14X117
 Drive to Refusal
 Est. Length 65'
 No. Req'd. 121 + 1 Test Pile

Note: Space Reinforcement at Bridge Seat to miss Anchor Bolts



Bar No.	Size	Length	Shape
H 6	4	23-11.5	
H 7	4	16-4	
H 8	4	17-9	
H 9	4	14-1.5	
H 10	4	17-11	
H 11	4	13-10	
H 12	4	18-1	
H 13	4	13-0.5	
H 14	4	18-3	
H 15	4	13-3	
H 16	4	18-4.5	
H 17	4	13-0.5	
H 18	4	18-6.5	
H 19	4	12-10	
H 20	4	18-9	
H 21	4	12-6	
H 22	4	12-5	
H 23	4	18-11	
H 24	4	12-4	
H 25	4	19-0.5	
H 26	4	12-1	
H 27	4	19-3	
H 28	4	11-11	
H 29	4	19-5.5	
H 30	4	11-6	
H 31	4	19-7.5	
H 32	4	11-6	
H 33	4	19-9.5	
H 34	4	11-3	
H 35	4	20-0	
H 36	4	11-2	
H 37	4	20-3	
H 38	4	10-11	
H 39	4	20-5	
H 40	4	10-11	
H 41	4	20-5	
H 42	4	10-9	
H 43	4	20-7	
H 44	4	10-7	
H 45	4	20-10	
H 46	4	10-6	
H 47	4	21-0.5	
H 48	4	10-4	
H 49	4	21-3	
H 50	4	10-2.5	
H 51	4	21-6	
H 52	4	10-1	
H 53	4	21-9	
H 54	4	9-11.5	
H 55	4	21-11	
H 56	4	9-10	
H 57	4	22-2	
H 58	4	9-8.5	
H 59	4	22-5	
H 60	4	9-8	
H 61	4	22-6	
H 62	4	9-7.5	
H 63	4	22-11	
H 64	4	9-6	
H 65	4	23-2	

BILL OF MATERIALS

Bar No.	Size	Length	Shape
v6	60	#185	36'-5"
v7	16	#185	12'-0"
v8	8	#185	23'-0"
v9	8	#185	34'-0"
v10	12	#185	45'-0"
v11	8	#185	56'-0"
v12	8	#185	67'-0"
v13	20	#185	82'-0"
v14	22	#185	92'-0"
v15	4	#185	78'-0"
v16	14	#6	27'-0"
v17	14	#4	6'-0"
v18	40	#9	35'-0"
v19	42	#6	31'-0"
u6	56	#5	9'-5"
u7	14	#4	8'-4"
u8	30	#6	12'-8"
u9	112	#145	28'-6"
u10	75	#11	28'-6"
u11	39	#145	7'-6"
u12	16	#8	40'-0"
Class X Concrete Cu. Yds. 2223.0			
Reinforcement Bars Lbs. 274950			
Steel H Piles Lin. Ft. 70005			
Test Piles Ea. 1			
Seal Coat Conc. Cu. Yds. 965.5			
Cofferdam Pier 7 Ea. 1			

Design High Water for Cofferdam El. 442. When River reaches or exceeds, El. 442 the Cofferdam must be Flooded.

Refer to Pile Anchor Detail Outer Row Only

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
PIER 7
 PROJECT:
 ILL. 9 over ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+50

THE ENGINEERS COLLABORATIVE CHICAGO ILLINOIS SHEET 6 OF 15

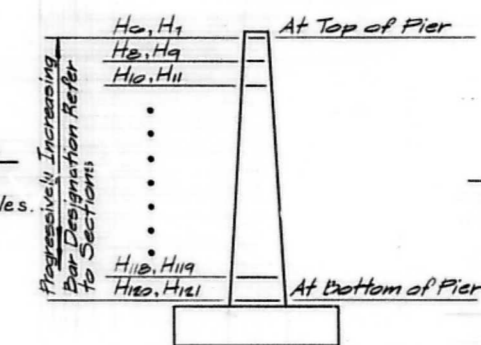
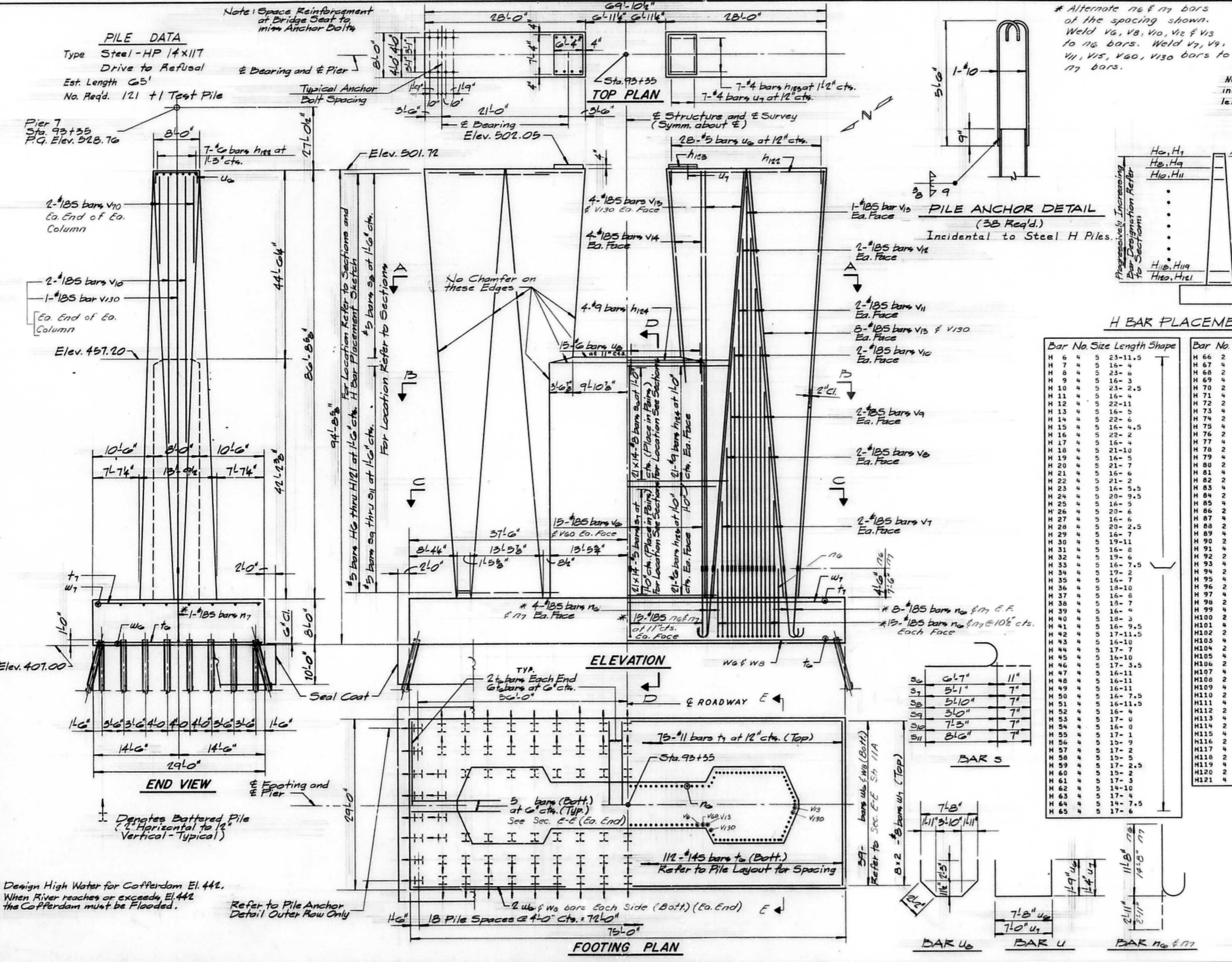
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	10A
FED. ROAD DIV. NO.		ILLINOIS PROJECT		

* Alternate n6 & n7 bars of the spacing shown. Weld v6, v8, v10, v12 & v13 to n6 bars. Weld v7, v9, v11, v15, v60, v130 bars to n7 bars.

Note: Bars indicated 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

PILE DATA
 Type Steel-HP 14x17
 Drive to Refusal
 Est. Length 65'
 No. Reqd. 121 + 1 Test Pile

Note: Space Reinforcement at Bridge Seat to min Anchor Delta



H BAR PLACEMENT SKETCH

Bar No.	Size	Length	Shape
H 6	4	5	23-11.5
H 7	4	5	16-4
H 8	4	5	23-6
H 9	4	5	16-3
H 10	4	5	23-2.5
H 11	4	5	16-4
H 12	4	5	22-11
H 13	4	5	16-5
H 14	4	5	22-6.5
H 15	4	5	16-4.5
H 16	4	5	22-2
H 17	4	5	16-4
H 18	4	5	21-10
H 19	4	5	16-5
H 20	4	5	21-7
H 21	4	5	16-6
H 22	4	5	21-2
H 23	4	5	16-5.5
H 24	4	5	20-9.5
H 25	4	5	16-5
H 26	4	5	20-6
H 27	4	5	16-6
H 28	4	5	20-2.5
H 29	4	5	16-7
H 30	4	5	19-11
H 31	4	5	16-8
H 32	4	5	19-6
H 33	4	5	16-7.5
H 34	4	5	19-2
H 35	4	5	16-7
H 36	4	5	18-10
H 37	4	5	16-8
H 38	4	5	17-7
H 39	4	5	16-0
H 40	4	5	18-3
H 41	4	5	16-9.5
H 42	4	5	17-11.5
H 43	4	5	16-10
H 44	4	5	17-7
H 45	4	5	16-10
H 46	4	5	17-3.5
H 47	4	5	16-11
H 48	4	5	16-11
H 49	4	5	16-11
H 50	4	5	16-7.5
H 51	4	5	16-11.5
H 52	4	5	16-4
H 53	4	5	17-0
H 54	4	5	16-0
H 55	4	5	17-1
H 56	4	5	17-9
H 57	4	5	17-2
H 58	4	5	15-5
H 59	4	5	17-2.5
H 60	4	5	15-2
H 61	4	5	17-3
H 62	4	5	14-10
H 63	4	5	17-4
H 64	4	5	14-7.5
H 65	4	5	17-6

Bar No.	Size	Length	Shape
H 66	2	5	14-4
H 67	4	5	16-4
H 68	2	5	14-1.5
H 69	4	5	17-11
H 70	2	5	13-10
H 71	4	5	18-1
H 72	2	5	13-0.5
H 73	4	5	18-3
H 74	2	5	13-3
H 75	4	5	18-4.5
H 76	2	5	13-0.5
H 77	4	5	18-6.5
H 78	2	5	12-10
H 79	4	5	18-9
H 80	2	5	12-6
H 81	4	5	18-11
H 82	2	5	12-4
H 83	4	5	19-0.5
H 84	2	5	12-1
H 85	4	5	19-3
H 86	2	5	11-11
H 87	4	5	19-5.5
H 88	2	5	11-6
H 89	4	5	19-7.5
H 90	2	5	11-6
H 91	4	5	19-9.5
H 92	2	5	11-3
H 93	4	5	20-0
H 94	2	5	11-2
H 95	4	5	20-3
H 96	2	5	10-11
H 97	4	5	20-5
H 98	2	5	10-9
H 99	4	5	20-7
H 100	2	5	10-7
H 101	4	5	20-10
H 102	2	5	10-6
H 103	4	5	21-0.5
H 104	2	5	10-4
H 105	4	5	21-3
H 106	2	5	10-2.5
H 107	4	5	21-6
H 108	2	5	10-1
H 109	4	5	21-9
H 110	2	5	9-11.5
H 111	4	5	21-11
H 112	2	5	9-10
H 113	4	5	22-2
H 114	2	5	9-8.5
H 115	4	5	22-5
H 116	2	5	9-8
H 117	4	5	22-6
H 118	2	5	9-7.5
H 119	4	5	22-11
H 120	2	5	9-6
H 121	4	5	23-2

BILL OF MATERIALS

Bar No.	Size	Length	Shape
n6	588	#8	7'6"
n7	588	#5	5'8"
v6	1188	#5	6'5"
v7	784	#5	3'7"
v8	224	#5	3'7"
v9	224	#5	7'10"
v10	12	#185	45'0"
v11	8	#185	53'0"
v12	8	#185	67'0"
v13	24	#185	82'0"
v14	22	#185	52'0"
v15	4	#185	75'0"
n122	14	#6	27'6"
n123	14	#4	6'0"
n124	40	#9	35'0"
n125	42	#6	31'0"
v130	26	#185	79'0"
v170	8	#185	12'0"
u6	56	#5	11'2"
u7	14	#4	9'8"
u8	30	#6	12'8"
t7	75	#11	28'6"
u6	32	#185	20'0"
u7	16	#8	40'0"
w8	46	#9	40'0"

Reinforcement Bars Lbs. 267,930
 Steel H Piles Lin.Ft. 1805
 Test Piles Ea. 1
 Seal Coat Conc. Cu.Yds. 965.5
 Cofferdam Pier 7 Ea. 1
 Class A Concrete Cu.Yds. 2223.0

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
PIER 7
 PROJECT:
 ILL. 9 over ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+50

Rev. Reinf. Bars from 274,950* to 267,930 * 3-31-75 D.D.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
E.A. 75	12B	PEORIA-TAZEWELL	22	10B
FED. ROAD DIV. NO.	ILLINOIS PROJECT			

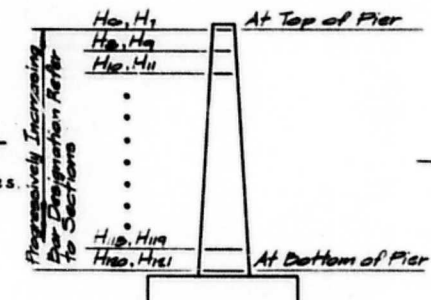
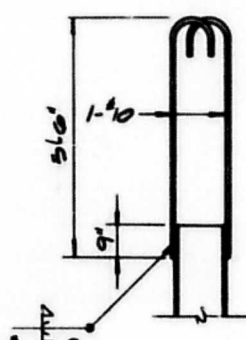
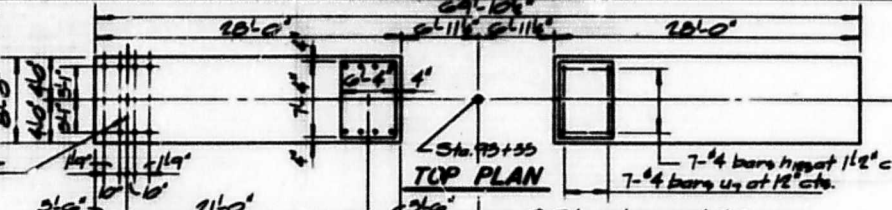
* Alternate n6 & n7 bars of the spacing shown. Weld v6, v8, v10, v12 & v13 to n6 bars. Weld v7, v9, v11, v15, v16, v18 bars to n7 bars.

Note: Bars indicated 20x3-#5 etc indicates 20 lines of bars with 3 lengths per line.

Note: For additional reinforcement see sheet 14BB.

PILE DATA
 Type Steel-HP 14X11T
 Drive to Refusal
 Est. Length 65'
 No. Req'd. 121 + 1 Test Pile

Note: Omit Reinforcement at Bridge Seat to meet Anchor Bolt Spacing



BILL OF MATERIALS

Bar No.	Size	Length	Shape
n6	#8	7'6"	C
n7	#8	5'8"	C
n8	#8	6'5"	C
n9	#8	3'7"	C
n10	#8	7'10"	C
n11	#8	9'1"	C
v6	#5	33'0"	---
n12	#8	14'7"	C
n13	#8	17'7"	C
n14	#8	13'10"	---
n15	#8	17'10"	---
n16	#8	23'0"	---
n17	#8	9'10"	---
n18	#8	23'0"	---
n19	#8	31'0"	---
n20	#8	45'0"	---
n21	#8	53'0"	---
n22	#8	67'0"	---
n23	#8	82'0"	---
n24	#8	75'0"	---
n25	#8	27'0"	---
n26	#8	6'0"	---
n27	#8	35'0"	---
n28	#8	31'0"	---
n29	#8	79'0"	---
n30	#8	12'0"	---
n31	#8	11'8"	---
n32	#8	40'0"	---
n33	#8	40'0"	---
n34	#8	40'0"	---
n35	#8	40'0"	---
n36	#8	40'0"	---
n37	#8	40'0"	---
n38	#8	40'0"	---
n39	#8	40'0"	---
n40	#8	40'0"	---
n41	#8	40'0"	---
n42	#8	40'0"	---
n43	#8	40'0"	---
n44	#8	40'0"	---
n45	#8	40'0"	---
n46	#8	40'0"	---
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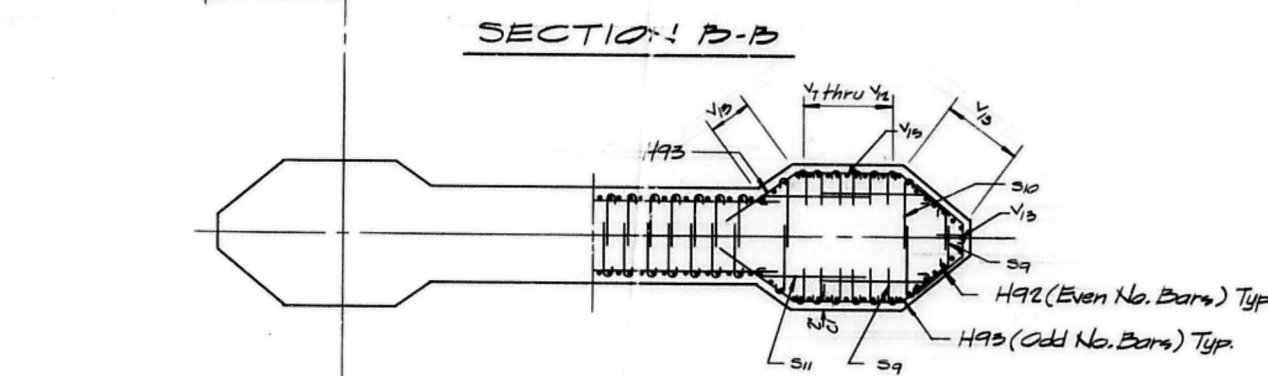
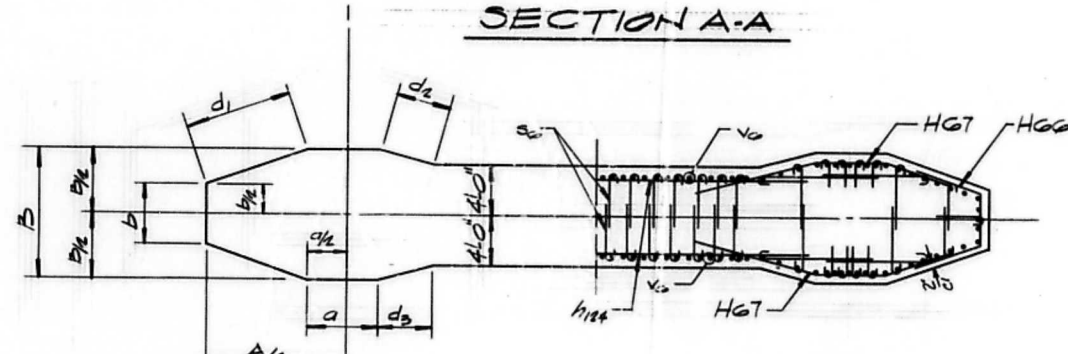
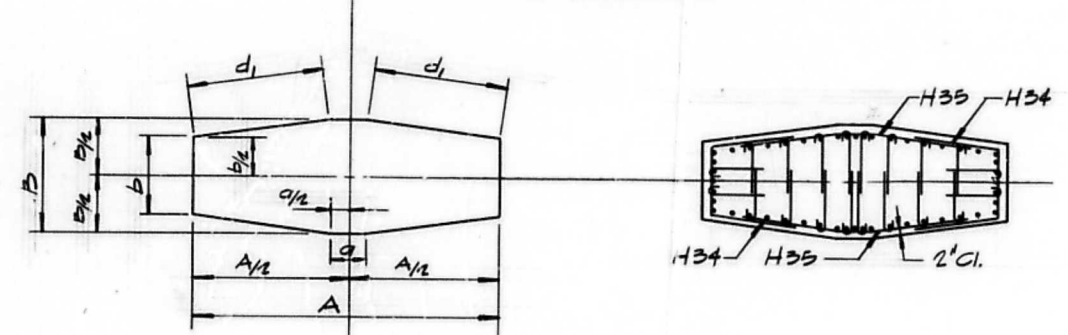
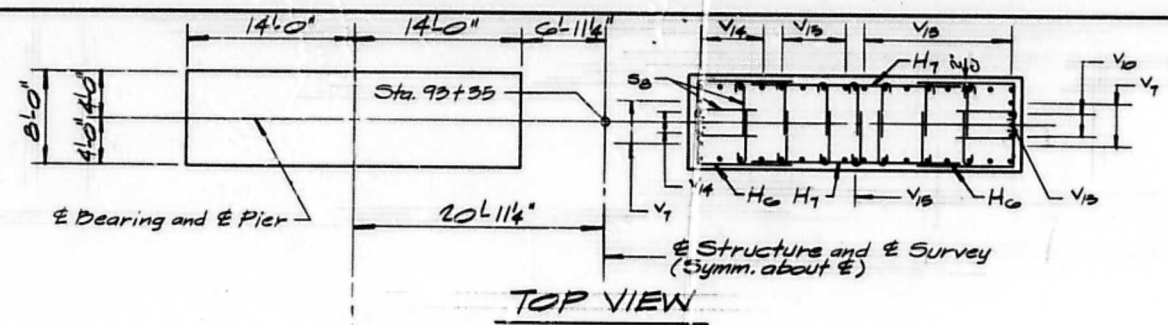
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	11
FED. ROAD DIV. NO.		ILLINOIS	PROJECT	

BAR H BENDING DIMENSIONS

Bar	F	G	H	J
H 6	0-2	7-7.5	8-2	0-0
H 7	0-2	0-0	0-0	8-2
H 8	0-0	7-6	0-0	0-1
H 9	0-0	0-3	0-1	8-0
H 10	7-11	7-4.5	7-11	0-2
H 11	7-11	0-6	0-2	7-11
H 12	7-10	7-3	7-10	0-2.5
H 13	7-10	0-9	0-2.5	7-10
H 14	7-8.5	7-1	7-8.5	0-3
H 15	7-8.5	0-11.5	0-3	7-8.5
H 16	7-7	7-0	7-7	0-4
H 17	7-7	1-2	0-4	7-7
H 18	7-6	6-10	7-6	0-5
H 19	7-6	1-5	0-5	7-6
H 20	7-5	6-9	7-4.5	0-6
H 21	7-5	1-8	0-6	7-4.5
H 22	7-3.5	6-7	7-3	0-7
H 23	7-3.5	1-10.5	0-7	7-3
H 24	7-2	6-5.5	7-2	0-7.5
H 25	7-2	2-1	0-7.5	7-2
H 26	7-1	6-4	7-1	0-8.5
H 27	7-1	2-4	0-8.5	7-1
H 28	7-0	6-2.5	6-11	0-9
H 29	7-0	2-7	0-9	6-11
H 30	6-11	6-1	6-10	0-10
H 31	6-11	2-10	0-10	6-10
H 32	6-9.5	5-11	6-9	0-11
H 33	6-9.5	3-0.5	0-11	6-9
H 34	6-8	5-10	6-7	1-0
H 35	6-8	3-3	1-0	6-7
H 36	6-7	5-8	6-6	1-1
H 37	6-7	3-6	1-1	6-6
H 38	6-6	5-7	6-5	1-2
H 39	6-6	3-9	1-2	6-5
H 40	6-5	5-5	6-2.5	6-5
H 41	6-5	3-11.5	1-2.5	6-3.5
H 42	6-4	5-3.5	6-2	1-3.5
H 43	6-4	4-2	1-3.5	6-2
H 44	6-2.5	5-2	6-1	1-4.5
H 45	6-2.5	4-5	1-4.5	6-1
H 46	6-1.5	5-0.5	0-11	1-5
H 47	6-1.5	4-8	1-5	5-11
H 48	6-0	4-11	5-10	1-6
H 49	6-0	4-11	1-6	5-10
H 50	5-11	4-9.5	0-9	1-7
H 51	5-11	5-1.5	1-7	5-9
H 52	5-10	4-8	5-7	1-8
H 53	5-10	5-4	1-8	5-7
H 54	5-9	4-6	5-6	1-9
H 55	5-9	5-7	1-9	5-6
H 56	5-8	4-5	5-4.5	1-10
H 57	5-8	5-10	1-10	5-4.5
H 58	5-7	4-3	5-3	1-11
H 59	5-7	6-0.5	1-11	5-3
H 60	5-6	4-2	5-2	2-0
H 61	5-6	6-3	2-0	5-2
H 62	5-5	8-0	5-0	2-1
H 63	5-5	6-6	2-1	5-0
H 64	5-4.5	3-10.5	4-11	2-2
H 65	5-4.5	6-9	2-2	4-11
H 66	5-3.5	3-9	4-9.5	2-3
H 67	5-3.5	6-11.5	2-3	4-9.5
H 68	5-3	3-7.5	4-8	2-4
H 69	5-3	7-2	2-4	4-8
H 70	5-2	3-6	4-6.5	2-5
H 71	5-2	7-5	2-5	4-6.5
H 72	5-1	3-4.5	4-5	2-6
H 73	5-1	7-3	2-6	4-5
H 74	5-0	3-3	4-3.5	2-7
H 75	5-0	7-10.5	2-7	4-3.5
H 76	4-11.5	3-1.5	4-2	2-8
H 77	4-11.5	8-1	2-8	4-2
H 78	4-11	3-0	4-0.5	2-9
H 79	4-11	8-4	2-9	4-0.5
H 80	4-10	2-10	3-11	2-10
H 81	4-10	8-7	2-10	3-11
H 82	4-9.5	2-9	3-9.5	2-11
H 83	4-9.5	8-9	2-11	3-9.5
H 84	4-9	2-7	3-8	3-0
H 85	4-9	9-0	3-8	3-0
H 86	4-8.5	2-6	3-6	3-1.5
H 87	4-8.5	9-3	3-1.5	3-6
H 88	4-8	2-4	3-5	3-2.5
H 89	4-8	3-5.5	3-2.5	3-5
H 90	4-7.5	2-3	3-3	3-5.5
H 91	4-7.5	9-8	3-3.5	3-3
H 92	4-7	2-1	5-1	3-4.5
H 93	4-7	9-11	3-4.5	3-1
H 94	4-7	2-0	3-0	3-5.5
H 95	4-7	10-2	3-5.5	3-0
H 96	4-6.5	1-10	2-10	3-6.5
H 97	4-6.5	10-4.5	3-6.5	2-10
H 98	4-6	1-9	2-8	3-7.5
H 99	4-6	10-7	3-7.5	2-8
H100	4-6	1-7	2-6.5	3-8.5
H101	4-6	10-10	3-8.5	2-6.5
H102	4-6	1-6	2-5	3-9.5
H103	4-6	11-0.5	3-9.5	2-5
H104	4-6	1-4	2-3	3-10.5
H105	4-6	11-3	3-10.5	2-3
H106	4-6	1-2.5	2-1	3-11.5
H107	4-6	11-6	3-11.5	2-1
H108	4-6	1-1	1-11.5	4-0.5
H109	4-6	11-9	4-0.5	1-11.5
H110	4-6	0-11.5	4-10	4-1
H111	4-6	11-11	4-10	4-1
H112	4-6	0-10	1-8	4-2
H113	4-6	12-2	4-2	1-8
H114	4-6	0-8.5	1-6	4-3
H115	4-6	12-5	4-3	1-6
H116	4-6.5	0-7	1-4.5	4-4
H117	4-6.5	12-7.5	4-4	1-4.5
H118	4-7	0-5.5	1-3	4-5
H119	4-7	12-10	4-5	1-3
H120	4-7	0-4	1-1	4-5.5
H121	4-7	13-1	4-5.5	1-1

TABULAR DIMENSIONS FOR PIER 7

Distance in Feet From Top of Pier	(in feet)					
	A	a	B	b	d ₁	d ₂
0.00	26.00	0.00	8.00	8.00	1.00	
1.00	27.86	0.15	8.06	7.91	1.05	
2.00	27.73	0.31	8.13	7.82	1.11	
3.00	27.60	0.46	8.20	7.73	1.16	
4.00	27.46	0.62	8.26	7.64	1.22	
5.00	27.33	0.77	8.33	7.55	1.28	
6.00	27.20	0.93	8.40	7.46	1.34	
7.00	27.06	1.08	8.46	7.37	1.40	
8.00	26.93	1.24	8.53	7.28	1.46	
9.00	26.80	1.40	8.60	7.20	1.52	
10.00	26.66	1.55	8.66	7.11	1.57	
11.00	26.53	1.71	8.73	7.02	1.63	
12.00	26.40	1.86	8.80	6.93	1.69	
13.00	26.26	2.02	8.86	6.84	1.75	
14.00	26.13	2.17	8.93	6.75	1.81	
15.00	26.00	2.33	9.00	6.66	1.87	
16.00	25.86	2.48	9.06	6.57	1.93	
17.00	25.73	2.64	9.13	6.48	1.99	
18.00	25.60	2.80	9.20	6.40	2.05	
19.00	25.46	2.95	9.26	6.31	2.11	
20.00	25.33	3.11	9.33	6.22	2.17	
21.00	25.20	3.26	9.40	6.13	2.23	
22.00	25.06	3.42	9.46	6.04	2.29	
23.00	24.93	3.57	9.53	5.95	2.35	
24.00	24.80	3.73	9.60	5.86	2.41	
25.00	24.66	3.88	9.66	5.77	2.47	
26.00	24.53	4.04	9.73	5.68	2.53	
27.00	24.40	4.20	9.80	5.60	2.59	
28.00	24.26	4.35	9.86	5.51	2.65	
29.00	24.13	4.51	9.93	5.42	2.71	
30.00	24.00	4.66	10.00	5.33	2.77	
31.00	23.86	4.82	10.06	5.24	2.83	
32.00	23.73	4.97	10.13	5.15	2.89	
33.00	23.60	5.13	10.20	5.06	2.95	
34.00	23.46	5.28	10.26	4.97	3.01	
35.00	23.33	5.44	10.33	4.88	3.07	
36.00	23.20	5.60	10.40	4.79	3.13	
37.00	23.06	5.75	10.46	4.71	3.19	
38.00	22.93	5.91	10.53	4.62	3.25	
39.00	22.80	6.06	10.60	4.53	3.31	
40.00	22.66	6.22	10.66	4.44	3.37	
41.00	22.53	6.37	10.73	4.35	3.43	
42.00	22.40	6.53	10.80	4.26	3.49	
43.00	22.26	6.68	10.86	4.17	3.55	
44.00	22.13	6.84	10.93	4.08	3.61	
45.00	22.00	7.00	11.00	4.00	3.67	
46.00	21.86	7.15	11.06	3.91	3.73	
47.00	21.73	7.31	11.13	3.82	3.79	
48.00	21.60	7.46	11.20	3.73	3.85	
49.00	21.46	7.62	11.26	3.64	3.91	
50.00	21.33	7.77	11.33	3.55	3.97	
51.00	21.20	7.93	11.40	3.46	4.03	
52.00	21.06	8.08	11.46	3.37	4.09	
53.00	20.93	8.24	11.53	3.28	4.15	
54.00	20.80	8.40	11.60	3.20	4.21	
55.00	20.66	8.55	11.66	3.11	4.27	
56.00	20.53	8.71	11.73	3.02	4.33	
57.00	20.40	8.86	11.80	2.93	4.39	
58.00	20.26	9.02	11.86	2.84	4.45	
59.00	20.13	9.17	11.93	2.75	4.51	
60.00	20.00	9.33	12.00	2.66	4.57	
61.00	19.86	9.48	12.06	2.57	4.63	
62.00	19.73	9.64	12.13	2.48	4.69	
63.00	19.60	9.80	12.20	2.40	4.75	
64.00	19.46	9.95	12.26	2.31	4.81	
65.00	19.33	10.11	12.33	2.22	4.87	
66.00	19.20	10.26	12.40	2.13	4.93	
67.00	19.06	10.42	12.46	2.04	4.99	
68.00	18.93	10.57	12.53	1.95	5.05	
69.00	18.80	10.73	12.60	1.86	5.11	
70.00	18.66	10.88	12.66	1.77	5.17	
71.00	18.53	11.04	12.73	1.68	5.23	
72.00	18.40	11.20	12.80	1.60	5.29	
73.00	18.26	11.35	12.86	1.51	5.35	
74.00	18.13	11.51	12.93	1.42	5.41	
75.00	18.00	11.66	13.00	1.33	5.47	
76.00	17.86	11.82	13.06	1.24	5.53	
77.00	17.73	11.97	13.13	1.15	5.59	
78.00	17.60	12.13	13.20	1.06	5.65	
79.00	17.46	12.28	13.26	0.97	5.71	
80.00	17.33	12.44	13.33	0.88	5.77	
81.00	17.20	12.60	13.40	0.80	5.83	
82.00	17.06	12.75	13.46	0.71	5.89	
83.00	16.93	12.91	13.53	0.62	5.95	
84.00	16.80	13.06	13.60	0.53	6.01	
85.00	16.66	13.22	13.66	0.44	6.07	
86.00	16.53	13.37	13.73	0.35	6.13	
87.00	16.40	13.53	13.80	0.26	6.19	
88.00	16.26	13.68	13.86	0.17	6.25	
89.00	16.13	13.84	13.93	0.08	6.31	
90.00	16.00	14.00	14.00	0.00	6.37	

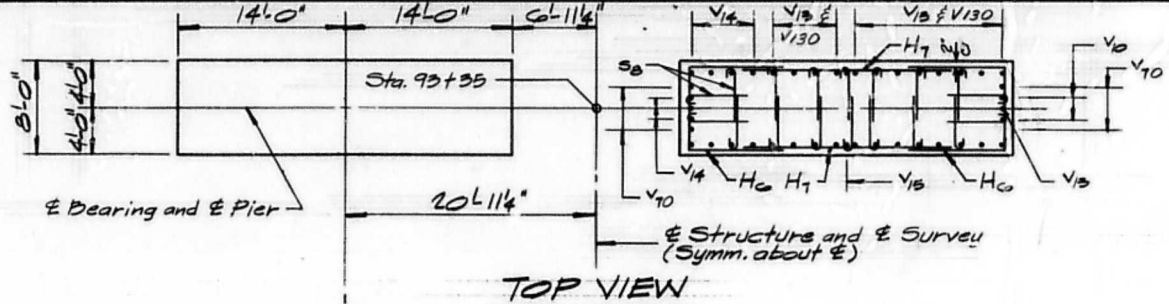


BAR H BENDING DIMENSIONS

Bar	F	G	H	J
H 6	0-2	7-7.5	0-2	0-3
H 7	0-2	0-0	0-0	0-2
H 8	0-0	7-6	0-0	0-1
H 9	0-0	0-3	0-1	0-2
H 10	7-11	7-4.5	7-11	0-2
H 11	7-11	0-6	0-2	7-11
H 12	7-10	7-3	7-10	0-2.5
H 13	7-10	0-9	0-2.5	7-10
H 14	7-8.5	7-1	7-8.5	0-3
H 15	7-8.5	0-11.5	0-3	7-8.5
H 16	7-7	7-9	7-7	0-4
H 17	7-7	1-2	0-4	7-7
H 18	7-6	6-13	7-6	0-5
H 19	7-6	1-5	0-5	7-6
H 20	7-5	6-9	7-4.5	0-6
H 21	7-5	1-3	0-4	7-4.5
H 22	7-3.5	6-7	7-3	0-7
H 23	7-3.5	1-10.5	0-7	7-3
H 24	7-2	6-5.5	7-2	0-7.5
H 25	7-2	2-1	0-7.5	7-2
H 26	7-1	6-4	7-1	0-8.5
H 27	7-1	2-4	0-8.5	7-1
H 28	7-0	6-2.5	6-11	0-9
H 29	7-0	2-7	0-9	6-11
H 30	6-11	6-1	0-10	6-10
H 31	6-11	2-10	0-10	6-10
H 32	6-9.5	5-11	6-9	0-11
H 33	6-8.5	3-0.5	6-7	1-0
H 34	6-8	3-3	1-0	6-7
H 35	6-8	5-8	6-6	1-1
H 36	6-7	5-8	6-6	1-1
H 37	6-7	3-6	1-1	6-6
H 38	6-6	5-7	6-5	1-2
H 39	6-6	3-9	1-2	6-5
H 40	6-5	5-5	6-3.5	1-2.5
H 41	6-5	3-11.5	1-2.5	6-3.5
H 42	6-4	5-3.5	6-2	1-3.5
H 43	6-4	4-2	1-3.5	6-2
H 44	6-2.5	5-2	6-1	1-4.5
H 45	6-2.5	4-5	1-4.5	6-1
H 46	6-1.5	5-0.5	0-11	1-5
H 47	6-1.5	4-8	1-5	5-11
H 48	6-0	4-11	5-10	1-6
H 49	6-0	4-11	1-6	5-10
H 50	5-11	4-9.5	0-9	1-7
H 51	5-11	5-1.5	1-7	5-9
H 52	5-10	4-8	5-7	1-8
H 53	5-10	5-4	1-8	5-7
H 54	5-9	4-6	5-6	1-9
H 55	5-9	5-7	1-9	5-6
H 56	5-8	4-5	5-4.5	1-10
H 57	5-8	5-10	1-10	5-4.5
H 58	5-7	4-3	5-3	1-11
H 59	5-7	6-0.5	1-11	5-3
H 60	5-6	4-2	5-2	5-3
H 61	5-6	6-3	2-0	5-2
H 62	5-5	4-0	5-0	2-1
H 63	5-5	6-6	2-1	5-0
H 64	5-4.5	3-10.5	4-11	2-2
H 65	5-4.5	6-9	2-2	4-11
H 66	5-3.5	3-9	4-9.5	2-3
H 67	5-3.5	6-11.5	2-3	4-9.5
H 68	5-3	3-7.5	4-8	2-4
H 69	5-3	7-2	2-4	4-8
H 70	5-2	3-6	4-6.5	2-5
H 71	5-2	7-5	2-5	4-6.5
H 72	5-1	3-4.5	4-5	2-6
H 73	5-1	7-3	2-6	4-5
H 74	5-0	3-3	4-3.5	2-7
H 75	5-0	7-10.5	2-7	4-3.5
H 76	4-11.5	3-1.5	4-2	2-8
H 77	4-11.5	8-1	2-8	4-2
H 78	4-11	3-0	4-0.5	2-9
H 79	4-11	8-4	2-9	4-0.5
H 80	4-10	2-10	3-11	2-10
H 81	4-10	8-7	2-10	3-11
H 82	4-9.5	2-9	3-9.5	2-11
H 83	4-9.5	8-9	2-11	3-9.5
H 84	4-9	2-7	3-8	3-0
H 85	4-9	9-0	3-0	3-8
H 86	4-8.5	2-6	3-1.5	3-8
H 87	4-8.5	9-3	3-1.5	3-8
H 88	4-8	2-4	3-5	3-2.5
H 89	4-8	9-5.5	3-2.5	3-5
H 90	4-7.5	2-3	3-3	3-3.5
H 91	4-7.5	9-8	3-3.5	3-3
H 92	4-7	2-1	3-1	3-4.5
H 93	4-7	9-11	3-4.5	3-1
H 94	4-7	2-0	3-0	3-5.5
H 95	4-7	10-2	3-5.5	3-0
H 96	4-6.5	1-10	2-10	3-6.5
H 97	4-6.5	10-4.5	3-6.5	2-10
H 98	4-6	1-9	2-8	3-7.5
H 99	4-6	10-7	3-7.5	2-8
H 100	4-6	1-7	2-6.5	3-8.5
H 101	4-6	10-10	3-8.5	2-6.5
H 102	4-6	1-6	2-5	3-9.5
H 103	4-6	11-0.5	3-9.5	2-5
H 104	4-6	1-4	2-3	3-10.5
H 105	4-6	11-3	3-10.5	2-3
H 106	4-6	1-2.5	2-1	3-11.5
H 107	4-6	11-6	3-11.5	2-1
H 108	4-6	1-1	1-11.5	4-0.5
H 109	4-6	11-9	4-0.5	1-11.5
H 110	4-6	0-11.5	1-10	4-1
H 111	4-6	11-11	4-1	1-10
H 112	4-6	0-10	1-8	4-2
H 113	4-6	12-2	4-2	1-8
H 114	4-6	0-8.5	1-6	4-3
H 115	4-6	12-5	4-3	1-6
H 116	4-6.5	0-7	1-4.5	4-4
H 117	4-6.5	12-7.5	4-4	1-4.5
H 118	4-7	0-5.5	1-3	4-5
H 119	4-7	12-10	4-5	1-3
H 120	4-7	0-4	1-1	4-5.5
H 121	4-7	13-1	4-5.5	1-1

TABULAR DIMENSIONS FOR PIER 7

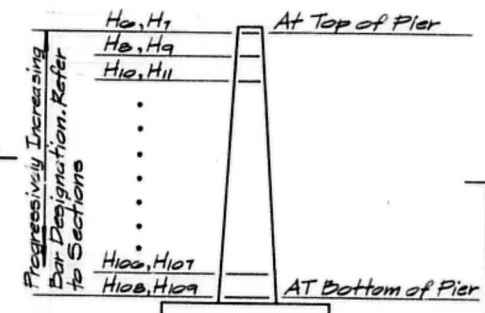
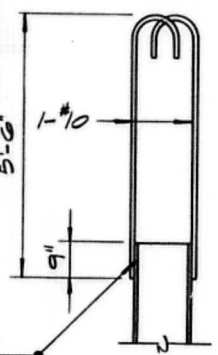
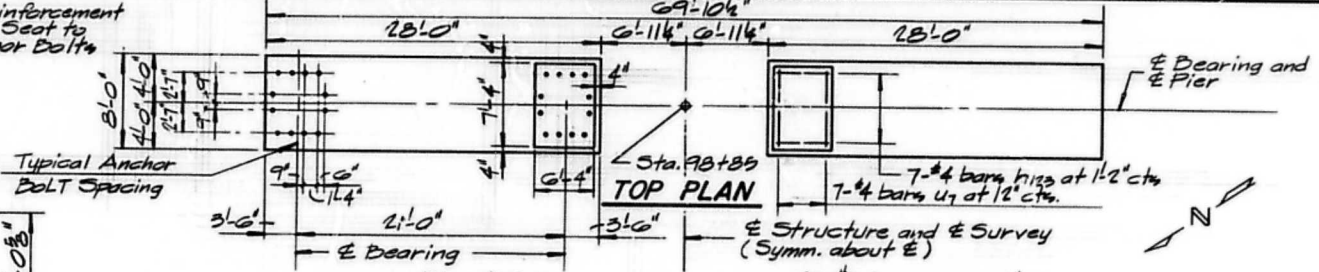
Distance in Feet From Top of Pier	(in feet)					
	A	a	B	b	d1	d2
0.00	26.00	0.00	6.00	6.00	14.00	
1.00	27.66	0.15	6.06	6.00	13.85	
2.00	27.73	0.31	6.13	7.82	13.71	
3.00	27.50	0.46	6.20	7.73	13.56	
4.00	27.46	0.62	6.26	7.64	13.42	
5.00	27.35	0.77	6.33	7.55	13.28	
6.00	27.29	0.93	6.40	7.46	13.14	
7.00	27.04	1.08	6.46	7.37	13.00	
8.00	26.93	1.24	6.53	7.28	12.85	
9.00	26.80	1.40	6.59	7.20	12.71	
10.00	26.66	1.55	6.66	7.11	12.57	
11.00	26.53	1.71	6.73	7.02	12.44	
12.00	26.40	1.86	6.80	6.93	12.30	
13.00	26.26	2.02	6.86	6.84	12.16	
14.00	26.13	2.17	6.93	6.75	12.02	
15.00	26.00	2.33	7.00	6.66	11.89	
16.00	25.86	2.48	7.06	6.57	11.75	
17.00	25.73	2.64	7.13	6.48	11.61	
18.00	25.60	2.80	7.20	6.40	11.48	
19.00	25.46	2.95	7.26	6.31	11.35	
20.00	25.33	3.11	7.33	6.22	11.21	
21.00	25.20	3.26	7.40	6.13	11.08	
22.00	25.06	3.42	7.46	6.04	10.95	
23.00	24.93	3.57	7.53	5.95	10.82	
24.00	24.80	3.73	7.60	5.86	10.69	
25.00	24.66	3.88	7.66	5.77	10.56	
26.00	24.53	4.04	7.73	5.68	10.44	
27.00	24.40	4.20	7.80	5.60	10.31	
28.00	24.26	4.35	7.86	5.51	10.19	
29.00	24.13	4.51	7.93	5.42	10.06	
30.00	24.00	4.66	8.00	5.33	9.94	
31.00	23.86	4.82	8.06	5.24	9.82	
32.00	23.73	4.97	8.13	5.15	9.70	
33.00	23.60	5.13	8.20	5.06	9.58	
34.00	23.46	5.28	8.26	4.97	9.46	
35.00	23.33	5.44	8.33	4.88	9.34	
36.00	23.20	5.60	8.40	4.80	9.23	
37.00	23.06	5.75	8.46	4.71	9.12	
38.00	22.93	5.91	8.53	4.62	9.00	
39.00	22.80	6.06	8.60	4.53	8.89	
40.00	22.66	6.22	8.66	4.44	8.79	
41.00	22.53	6.37	8.73	4.35	8.68	
42.00	22.40	6.53	8.80	4.26	8.57	
43.00	22.26	6.68	8.86	4.17	8.47	
44.00	22.13	6.84	8.93	4.08	8.37	3.58
45.00	22.00	7.00	9.00	4.00	8.27	3.54
46.00	21.86	7.15	9.06	3.91	8.17	3.50
47.00	21.73	7.31	9.13	3.82	8.08	3.46
48.00	21.60	7.46	9.20	3.73	7.99	3.42
49.00	21.46	7.62	9.26	3.64	7.90	3.38
50.00	21.33	7.77	9.33	3.55	7.81	3.34
51.00	21.20	7.93	9.40	3.46	7.72	3.31
52.00	21.06	8.08	9.46	3.37	7.63	3.27
53.00	20.93	8.24	9.53	3.28	7.54	3.24
54.00	20.80	8.40	9.60	3.20	7.48	3.20
55.00	20.66	8.55	9.66	3.11	7.41	3.17
56.00	20.53	8.71	9.73	3.02	7.34	3.14
57.00	20.40	8.86	9.80	2.93	7.27	3.11
58.00	20.26	9.02	9.86	2.84	7.20	3.08
59.00	20.13	9.17	9.93	2.75	7.14	3.06
60.00	20.00	9.33	10.00	2.66	7.08	3.03
61.00	19.86	9.48	10.06	2.57	7.03	3.01
62.00	19.73	9.64	10.13	2.48	6.97	2.99
63.00	19.60	9.80	10.20	2.40	6.92	2.96
64.00	19.46	9.95	10.26	2.31	6.88	2.95
65.00	19.33	10.11	10.33	2.22	6.84	2.93
66.00	19.20	10.26	10.40	2.13	6.80	2.91
67.00	19.06	10.42	10.46	2.04	6.77	2.90
68.00	18.93	10.57	10.53	1.95	6.73	2.88
69.00	18.80	10.73	10.60	1.86	6.71	2.87
70.00	18.66	10.88	10.66	1.77	6.69	2.86
71.00	18.53	11.04	10.73	1.68	6.67	2.85
72.00	18.40	11.20	10.80	1.60	6.65	2.85
73.00	18.26	11.35	10.86	1.51	6.64	2.84
74.00	18.13	11.51	10.93	1.42	6.64	2.84
75.00	18.00	11.66	11.00	1.33	6.63	2.84
76.00	17.86	11.82	11.06	1.24	6.63	2.84
77.00	17.73	11.97	11.13	1.15	6.64	2.84
78.00	17.60	12.13	11.20	1.06	6.63	2.84
79.00	17.46	12.28	11.26	0.97	6.66	2.85
80.00	17.33	12.44	11.33	0.88	6.68	2.86
81.00	17.20	12.60	11.40	0.80	6.70	2.87
82.00	17.06	12.75	11.46	0.71	6.73	2.88
83.00	16.93	12.91	11.53	0.62	6.76	2.89
84.00	16.80	13.06	11.60	0.53	6.79	2.91
85.00	16.66	13.22	11.66	0.44	6.83	2.92
86.00	16.53	13.37	11.73	0.35	6.87	2.94
87.00	16.40	13.53	11.80	0.26	6.91	2.96
88.00	16.26	13.68	11.86	0.17	6.96	2.98
89.00	16.13	13.84	11.93	0.08	7.01	3.00
90.00	16.00	14.00	12.00	0.00	7.07	3.03



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	12
FEC. ROAD DIV. NO.		ILLINOIS PROJECT		

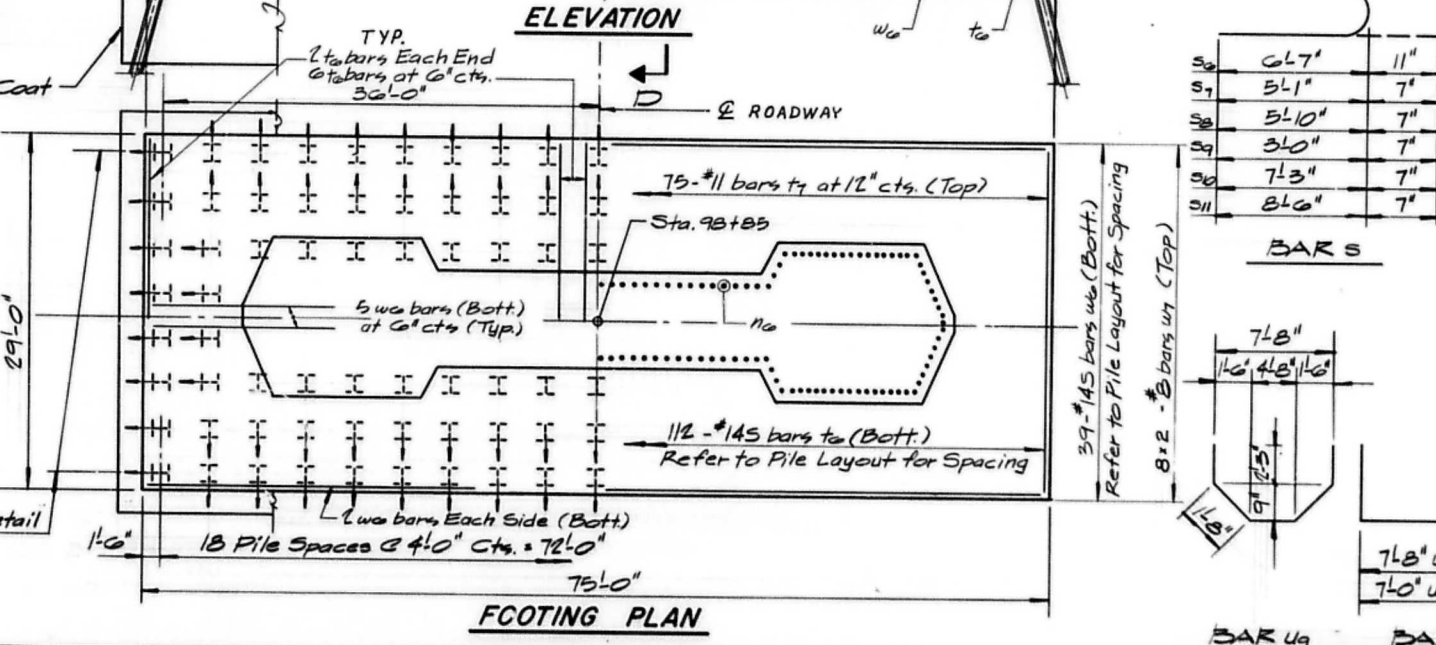
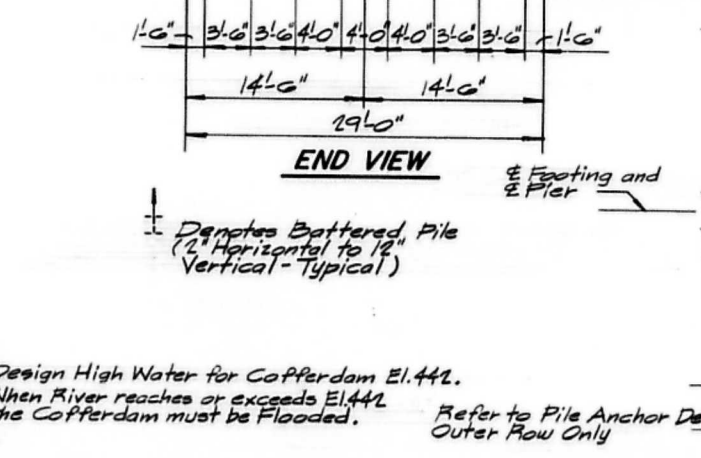
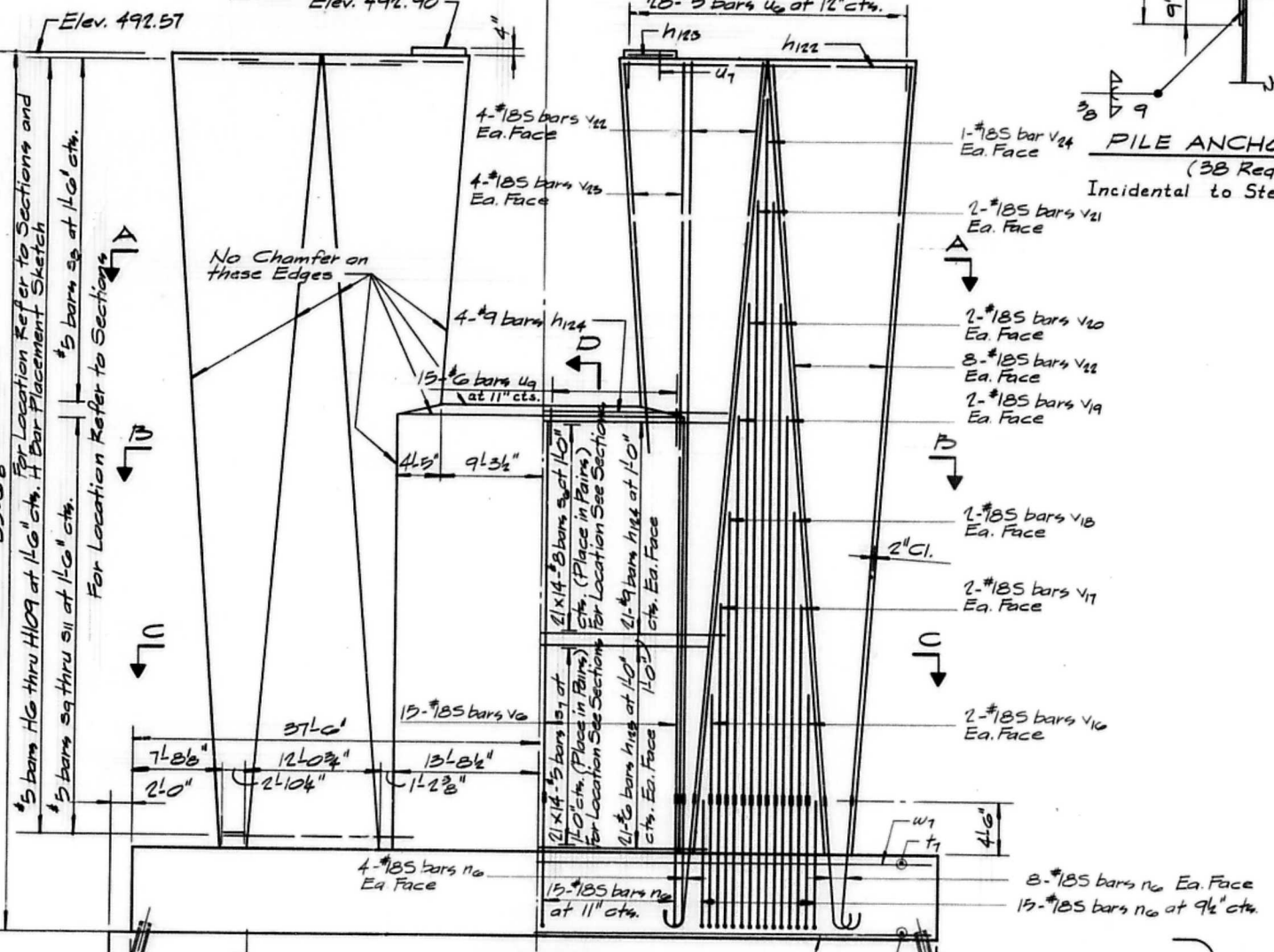
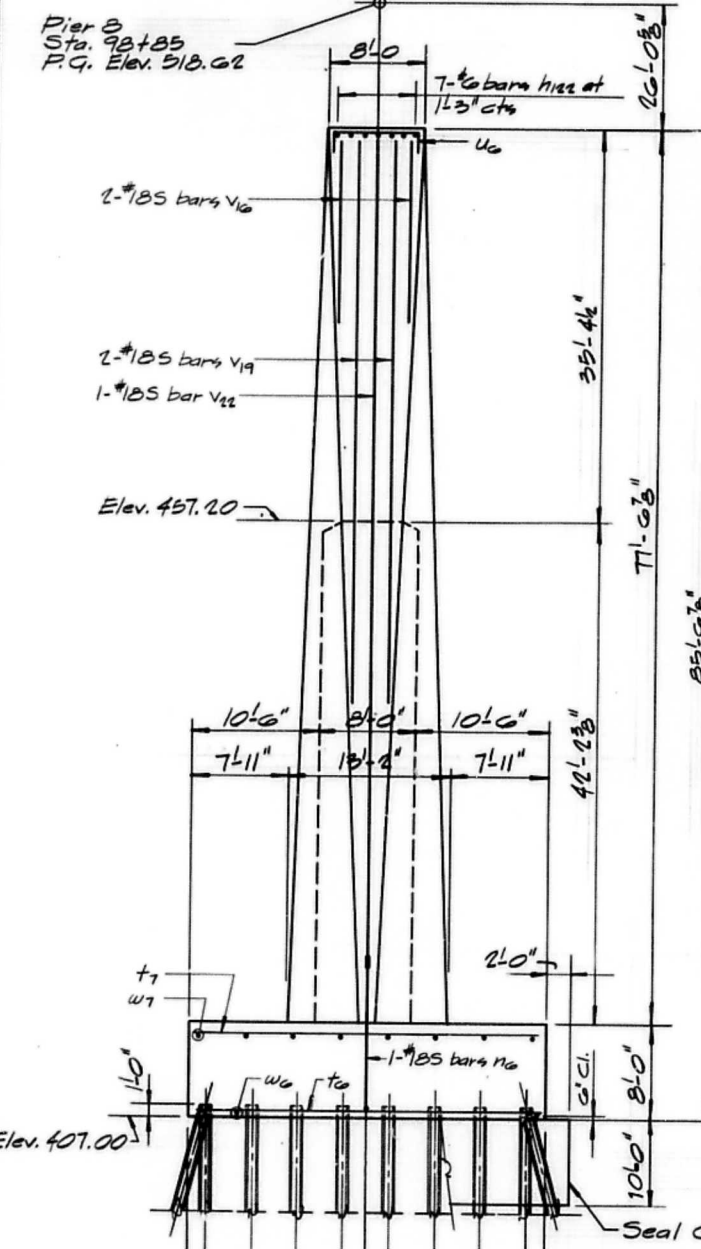
Note: Space Reinforcement at Bridge Seat to miss Anchor Bolts

PILE DATA
 Type Steel-HP 14x117
 Drive to Refusal
 Est. Length 75'
 No. Req'd. 121 + 1 Test Pile



BILL OF MATERIALS

Bar No.	Size	Length	Shape
56	58B	8	7'-6"
57	58B	5	5'-8"
906	5	6'-5"	C
848	5	3'-7"	C
224	5	7'-10"	C
224	5	9'-1"	C
170	78S	14'-7"	C
60	18S	36'-5"	
10	18S	15'-0"	
8	18S	24'-0"	
8	18S	33'-0"	
12	18S	42'-0"	
8	18S	51'-0"	
8	18S	60'-0"	
30	18S	72'-10"	
22	18S	43'-3"	
4	18S	69'-0"	
14	6	27'-6"	
14	6	6'-0"	
40	7	35'-0"	
42	6	51'-0"	
50	5	9'-5"	
14	4	8'-4"	
30	6	12'-6"	
112	14S	28'-6"	
75	11	28'-6"	
39	14S	7'-6"	
10	8	40'-0"	
Class X Concrete Cu. Yds. 2075.3			
Reinforcement Bars Lbs. 662070			
Steel H Piles Lin Ft. 9075			
Test Piles Ea. 1			
Seal Coat Conc. Cu. Yds. 965.5			
Cofferdam Pier B Ea. 1			



H BAR PLACEMENT SKETCH

Bar No.	Size	Length	Shape
H 6	4	5	23-11.5
H 7	4	5	16-4
H 8	4	5	23-6
H 9	4	5	16-3
H 10	4	5	23-2.5
H 11	4	5	16-4
H 12	4	5	22-11
H 13	4	5	16-5
H 14	4	5	22-6
H 15	4	5	16-4.5
H 16	4	5	22-2
H 17	4	5	16-4
H 18	4	5	21-10
H 19	4	5	16-5
H 20	4	5	21-7
H 21	4	5	16-2
H 22	4	5	21-2
H 23	4	5	16-5.5
H 24	4	5	20-9.5
H 25	4	5	16-5
H 26	4	5	20-6
H 27	4	5	16-6
H 28	4	5	20-2.5
H 29	4	5	16-7
H 30	4	5	19-11
H 31	4	5	16-8
H 32	4	5	19-6
H 33	4	5	16-7.5
H 34	4	5	19-2
H 35	4	5	16-7
H 36	4	5	19-8
H 37	4	5	16-9
H 38	4	5	18-3
H 39	4	5	17-9.5
H 40	4	5	17-11.5
H 41	4	5	16-10
H 42	4	5	17-7
H 43	4	5	16-10
H 44	4	5	17-3.5
H 45	4	5	16-11
H 46	4	5	16-11
H 47	4	5	16-11
H 48	4	5	16-11
H 49	4	5	16-11
H 50	4	5	16-7.5
H 51	4	5	16-11.5
H 52	4	5	16-4
H 53	4	5	17-0
H 54	2	5	16-0
H 55	4	5	16-10
H 56	2	5	19-9
H 57	4	5	17-0
H 58	2	5	19-5
H 59	4	5	17-1.5
H 60	2	5	19-2
H 61	4	5	17-3
H 62	2	5	14-10
H 63	4	5	17-9
H 64	2	5	14-7.5
H 65	4	5	17-7.5

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
PIER B
 PROJECT:
 ILL. 9 over ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+50

Design High Water for Cofferdam El. 442.
 When River reaches or exceeds El. 442
 the Cofferdam must be Flooded.
 Refer to Pile Anchor Detail
 Outer Row Only

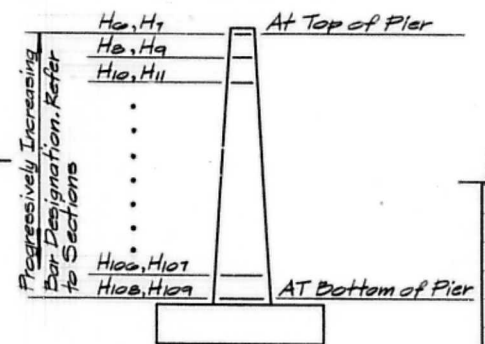
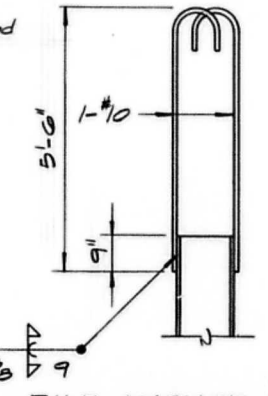
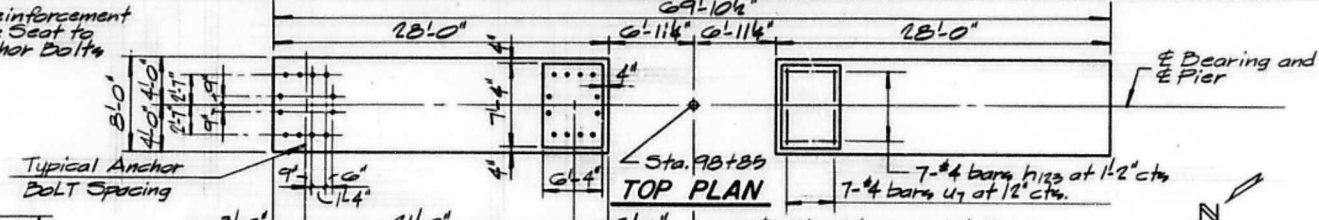
Note: Space Reinforcement of Bridge Seat to match Anchor Bolts

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	12
FED. ROAD DIV. NO.		ILLINOIS PROJECT		

* Alternate n6 & n7 bars of the spacing shown. Weld v6, v7, v19, v21, v22 bars to n6 bars. Weld v16, v18, v20, v24, v26, v28 bars to n7 bars.

Note: Bars indicated 20x3--*5 etc. indicates 20 lines of bars with 3 lengths per line.

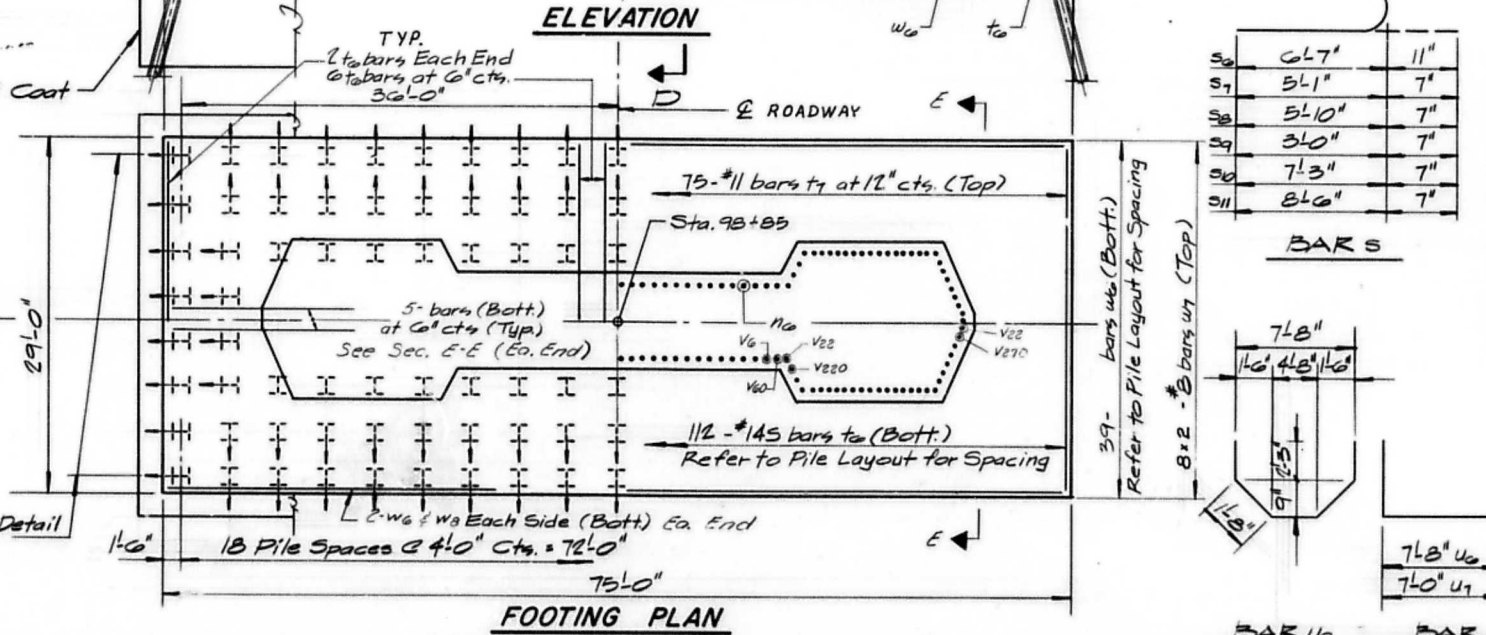
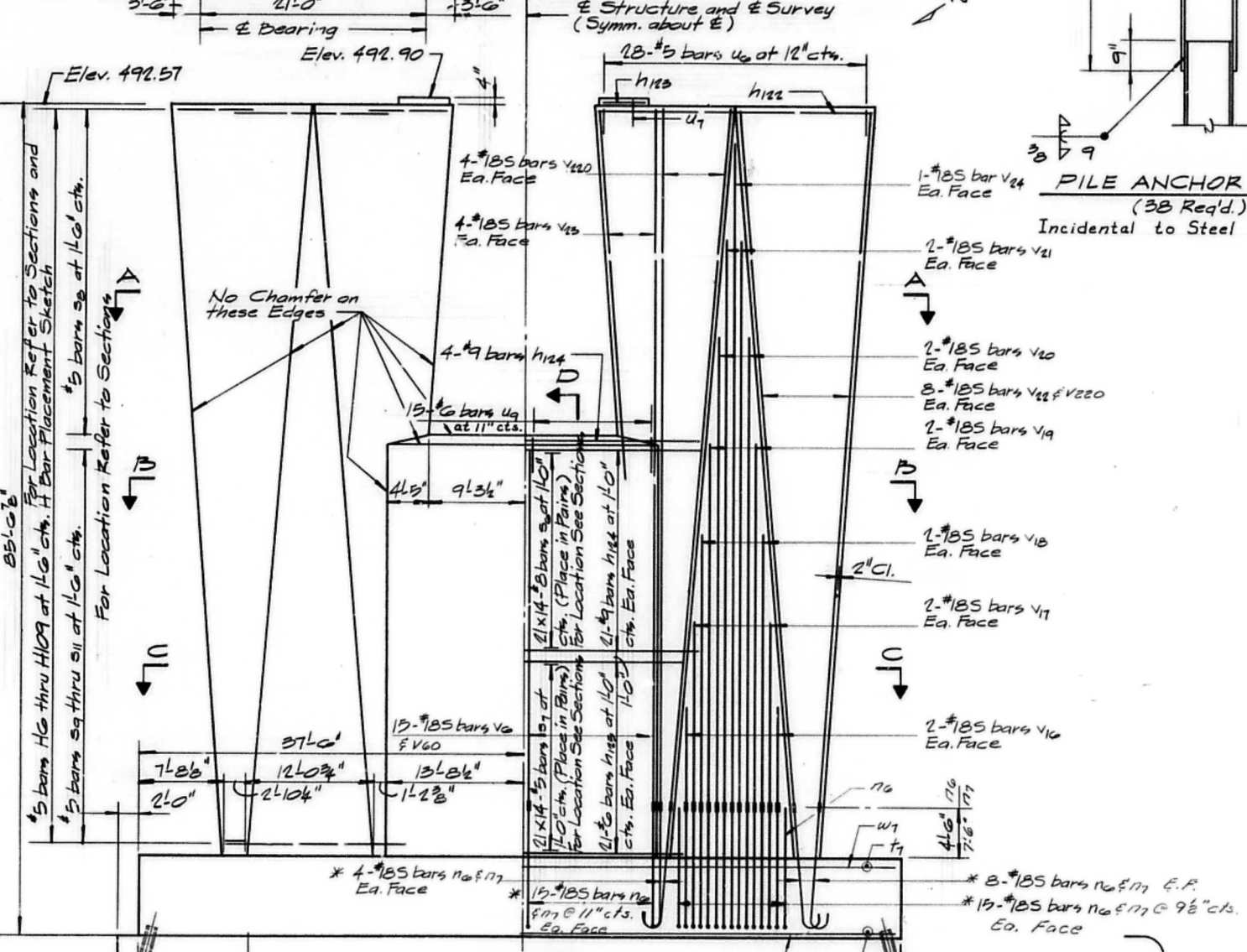
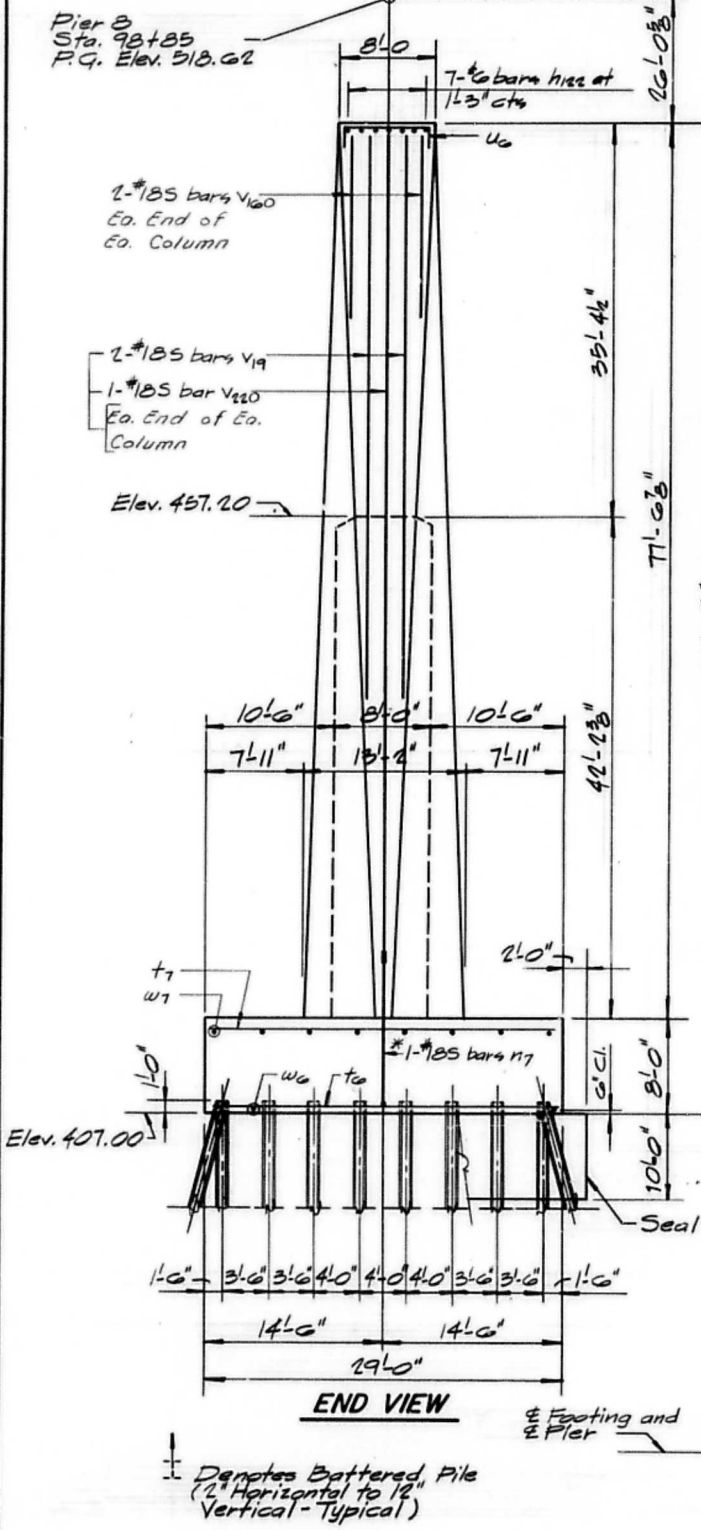
FILE DATA
 Type Steel-HP 14x117
 Drive to Refusal
 Est Length 75'
 No Req'd. 21 +1 Test Pile



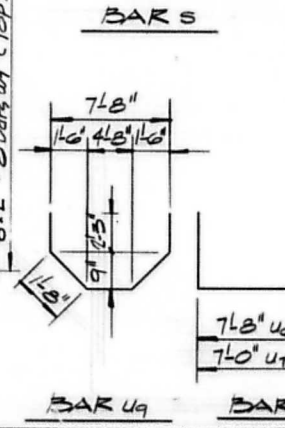
BILL OF MATERIALS

Bar No.	Size	Length	Shape
56	588	#8	7'-6"
57	588	#5	5'-8"
58	936	#5	6'-5"
59	792	#5	3'-7"
510	224	#5	7'-10"
511	224	#5	9'-1"
v60	32	#185	33'-5"
n6	84	#85	14'-7"
n7	86	#185	17'-7"
v6	28	#185	36'-5"
v16	8	#185	12'-0"
v17	8	#185	24'-0"
v18	8	#185	30'-0"
v19	12	#185	42'-0"
v20	8	#185	48'-0"
v21	8	#185	60'-0"
v22	24	#185	72'-10"
v23	22	#185	43'-5"
v24	4	#185	66'-0"
h122	14	#6	27'-6"
h123	14	#4	6'-0"
h124	46	#9	35'-0"
h125	42	#6	31'-0"
v160	8	#185	15'-0"
v270	26	#185	69'-10"
u6	56	#5	11'-2"
u7	14	#4	9'-8"
u9	30	#6	12'-6"
t7	112	#145	28'-6"
t7	75	#11	28'-0"
w6	32	#185	20'-0"
w7	16	#8	40'-0"
w8	46	#9	40'-0"

Bar No.	Size	Length	Shape
H 6	4	5	23-11.5
H 7	4	5	16-4
H 8	4	5	23-6
H 9	4	5	16-3
H 10	4	5	23-2.5
H 11	4	5	16-4
H 12	4	5	22-11
H 13	4	5	16-5
H 14	4	5	22-6
H 15	4	5	16-4.5
H 16	4	5	22-2
H 17	4	5	16-4
H 18	4	5	21-10
H 19	4	5	16-5
H 20	4	5	21-7
H 21	4	5	16-6
H 22	4	5	21-2
H 23	4	5	16-5.5
H 24	4	5	20-9.5
H 25	4	5	16-5
H 26	4	5	20-6
H 27	4	5	16-6
H 28	4	5	20-2.5
H 29	4	5	16-7
H 30	4	5	19-11
H 31	4	5	16-8
H 32	4	5	19-6
H 33	4	5	16-7.5
H 34	4	5	19-2
H 35	4	5	16-7
H 36	4	5	18-10
H 37	4	5	16-8
H 38	4	5	19-7
H 39	4	5	16-9
H 40	4	5	18-3
H 41	4	5	16-9.5
H 42	4	5	17-11.5
H 43	4	5	16-10
H 44	4	5	17-7
H 45	4	5	16-10
H 46	4	5	17-3.5
H 47	4	5	16-11
H 48	4	5	16-11
H 49	4	5	16-11
H 50	4	5	16-7.5
H 51	4	5	16-11.5
H 52	4	5	16-4
H 53	4	5	17-0
H 54	2	5	16-0
H 55	4	5	16-10
H 56	2	5	15-9
H 57	4	5	17-0
H 58	2	5	15-5
H 59	4	5	17-1.5
H 60	2	5	15-2
H 61	4	5	17-3
H 62	2	5	14-10
H 63	4	5	17-5
H 64	2	5	14-7.5
H 65	4	5	17-7.5



Bar No.	Size	Length	Shape
s6	67	11"	
s7	51	7"	
s8	51	7"	
s9	31	7"	
s10	71	7"	
s11	81	7"	



Design High Water for Cofferdam El. 442. When River reaches or exceeds El. 442 the Cofferdam must be Flooded. Refer to Pile Anchor Detail Outer Row Only

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
PIER B
 PROJECT:
 ILL. 9 over ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+50

* Alternate #6 & #7 bars of the spacing shown. Weld #6, #7, #9, #21, #22 bars to #6 bars. Weld #16, #18, #20, #22, #20, #22 bars to #7 bars.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A. 75	12B	PEORIA-TAZEWELL	22	12B
FED. ROAD DIV. NO.	ILLINOIS PROJECT			

Note: Bars indicated 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

Note: For additional reinforcement see sheet 14BB.

BILL OF MATERIALS

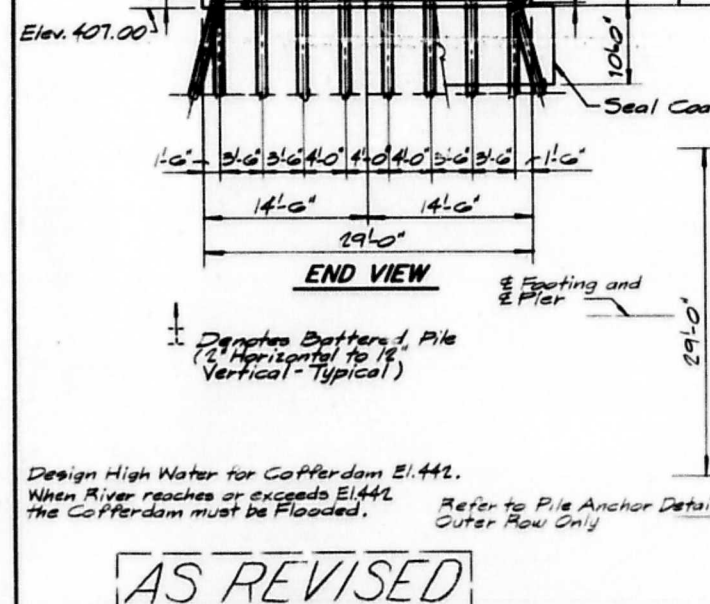
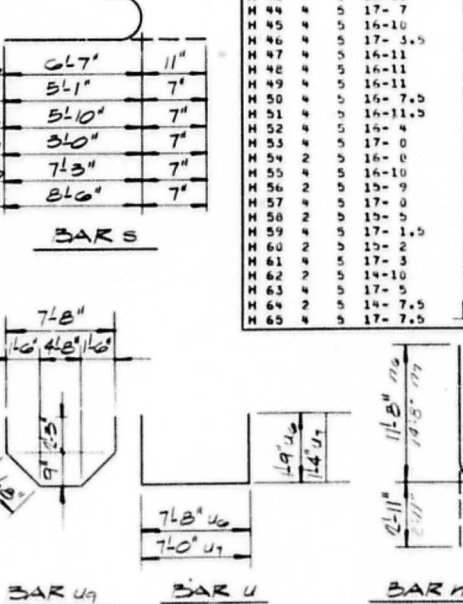
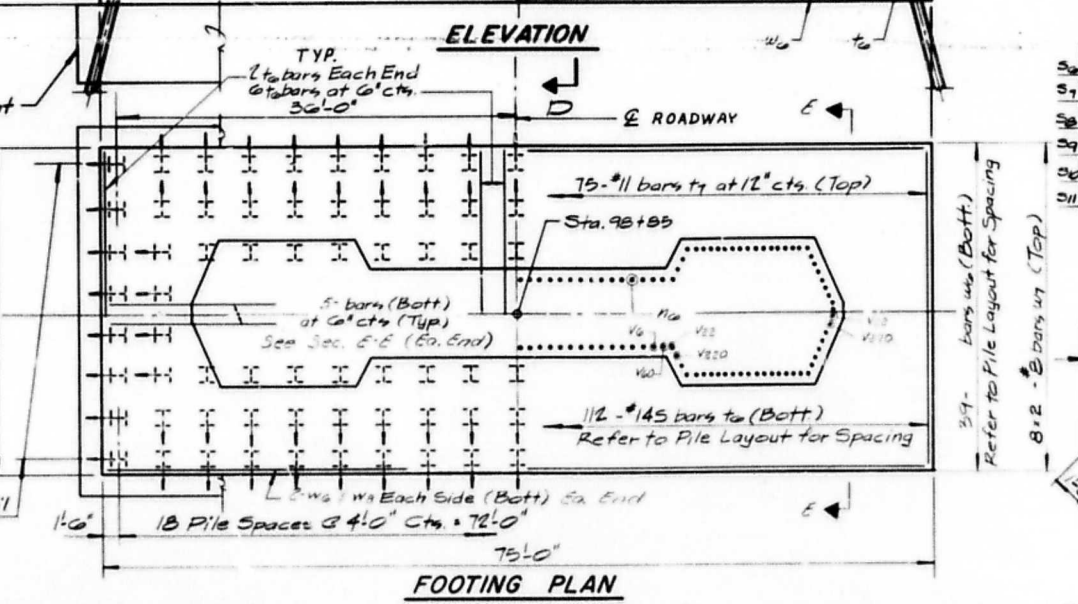
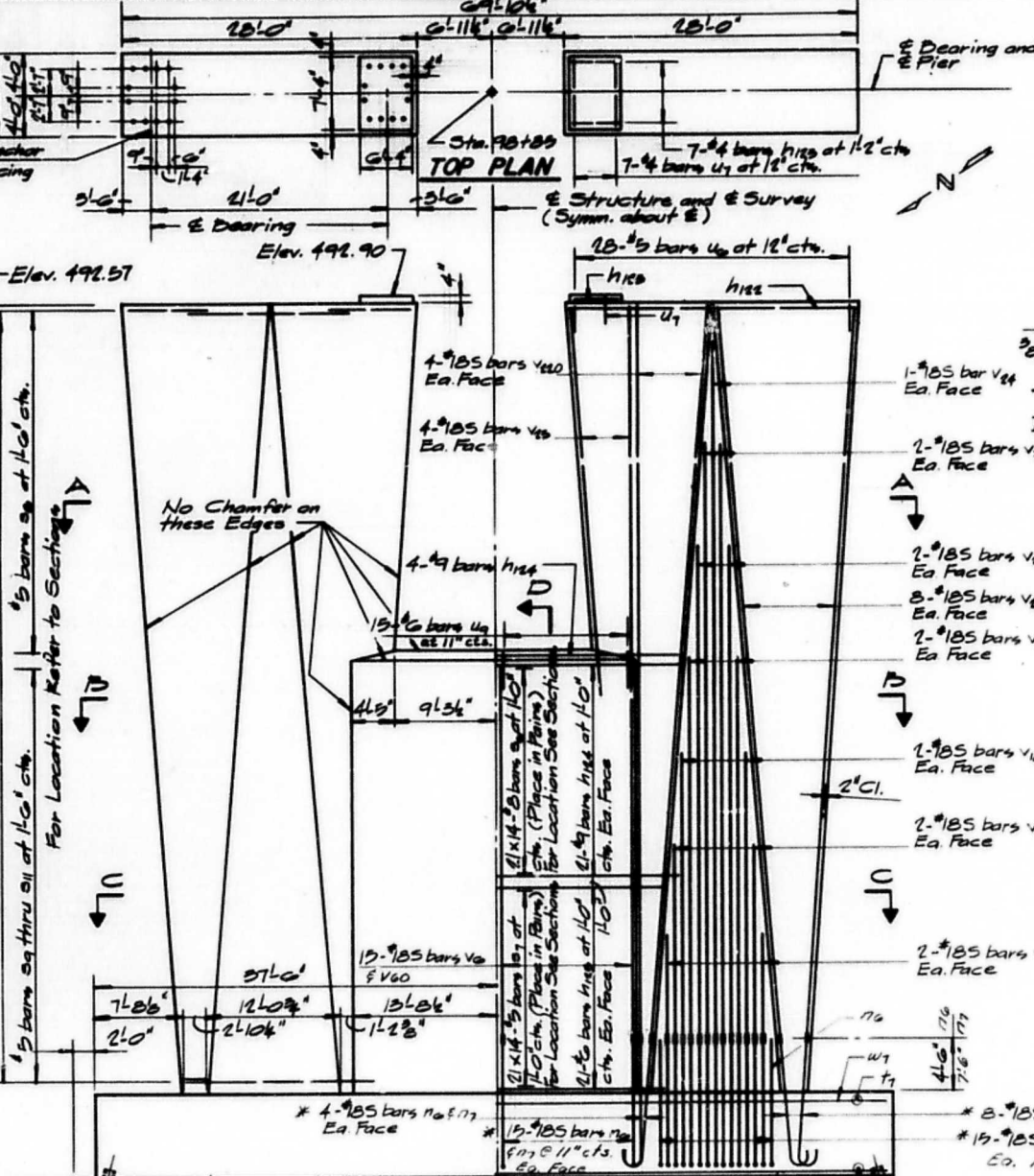
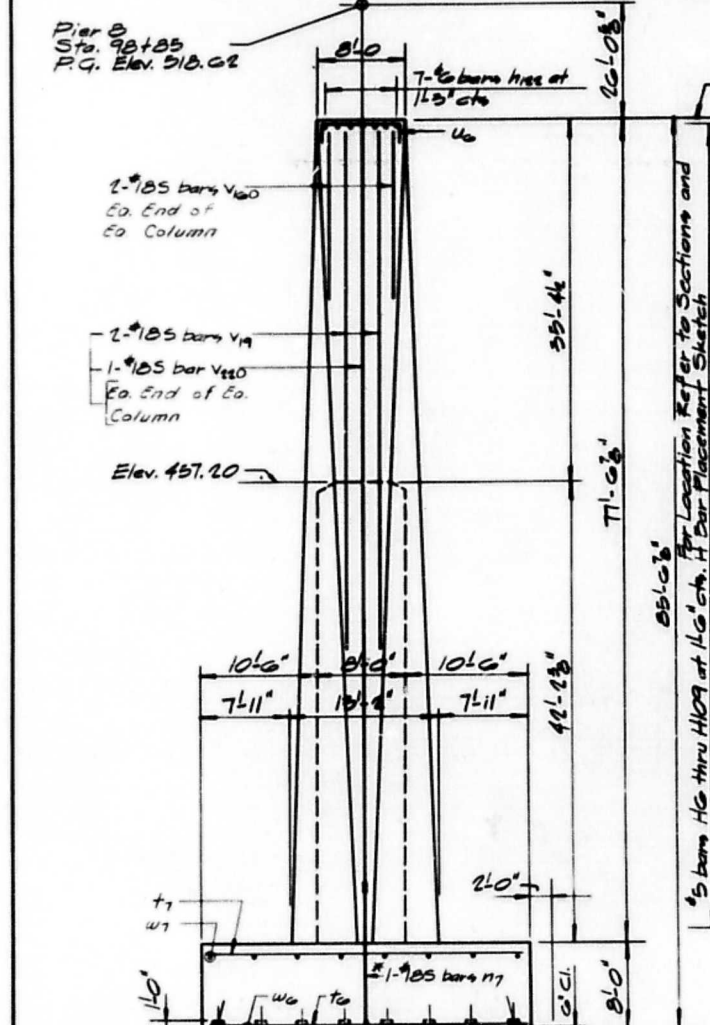
Bar No.	Size	Length	Shape
56	#8	7'6"	C
57	#5	5	C
58	#5	6'5"	C
59	#5	3'7"	C
224	#5	7'10"	C
224	#5	9'1"	C
224	#5	33'5"	C
54	#85	14'7"	C
86	#185	17'7"	C
28	#185	20'5"	C
3	#185	18'0"	C
8	#185	24'0"	C
8	#185	30'0"	C
12	#185	42'0"	C
8	#185	48'0"	C
8	#185	60'0"	C
24	#185	72'0"	C
22	#185	43'5"	C
4	#185	66'0"	C
14	#6	27'6"	C
14	#4	6'0"	C
40	#9	33'0"	C
42	#9	51'0"	C
8	#83	15'0"	C
26	#185	69'0"	C
50	#5	11'5"	C
14	#4	9'5"	C
30	#6	12'6"	C
112	#145	28'6"	C
75	#11	28'6"	C
10	#8	40'0"	C
26	#9	40'0"	C
Reinforcement Bars Lbs. 255,900			
Steel H Piles Lin Ft. 9075			
Test Piles Ea. 1			
Seal Coat Conc. Cu Yds. 965.5			
Cofferdam Pier B Ea. 1			
Class X Concrete Cu Yds. 2073.5			

H BAR PLACEMENT SKETCH

Bar No.	Size	Length	Shape
H 6	#5	23-11.5	C
H 7	#5	16-4	C
H 8	#5	23-0	C
H 9	#5	16-3	C
H 10	#5	23-2.5	C
H 11	#5	16-1	C
H 12	#5	22-11	C
H 13	#5	16-3	C
H 14	#5	22-0	C
H 15	#5	16-4.5	C
H 16	#5	22-2	C
H 17	#5	16-4	C
H 18	#5	21-10	C
H 19	#5	16-3	C
H 20	#5	21-7	C
H 21	#5	16-5	C
H 22	#5	21-2	C
H 23	#5	16-3.5	C
H 24	#5	20-9.5	C
H 25	#5	16-3	C
H 26	#5	20-6	C
H 27	#5	16-6	C
H 28	#5	20-2.5	C
H 29	#5	16-7	C
H 30	#5	19-11	C
H 31	#5	16-8	C
H 32	#5	19-8	C
H 33	#5	16-7.5	C
H 34	#5	19-2	C
H 35	#5	16-7	C
H 36	#5	18-11	C
H 37	#5	16-9	C
H 38	#5	18-7	C
H 39	#5	16-9	C
H 40	#5	18-5	C
H 41	#5	16-9.5	C
H 42	#5	17-11.5	C
H 43	#5	16-10	C
H 44	#5	17-7	C
H 45	#5	16-10	C
H 46	#5	17-3.5	C
H 47	#5	16-11	C
H 48	#5	16-11	C
H 49	#5	16-11	C
H 50	#5	16-7.5	C
H 51	#5	16-11.5	C
H 52	#5	16-4	C
H 53	#5	17-0	C
H 54	#5	16-0	C
H 55	#5	16-10	C
H 56	#5	19-9	C
H 57	#5	17-0	C
H 58	#5	19-9	C
H 59	#5	17-1.5	C
H 60	#5	19-2	C
H 61	#5	17-3	C
H 62	#5	16-10	C
H 63	#5	17-5	C
H 64	#5	16-7.5	C
H 65	#5	17-7.5	C

PILE DATA
 Type Steel-HP 14x117
 Drive to Refusal
 Est. Length 75'
 No Req'd. 121 +1 Test Pile

Note: Space Reinforcement of Bridge Seat to match Anchor Bolts

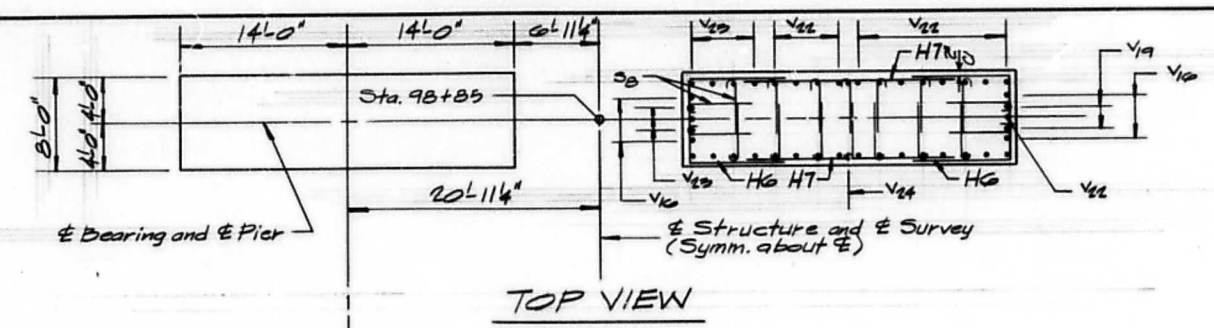


AS REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 PROJECT:
 ILL. 9 over ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+50

THE ENGINEERS COLLABORATIVE
 CHICAGO ILLINOIS
 SHEET 8 OF

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	13
FED. ROAD DIV. NO.	ILLINOIS	PROJECT		

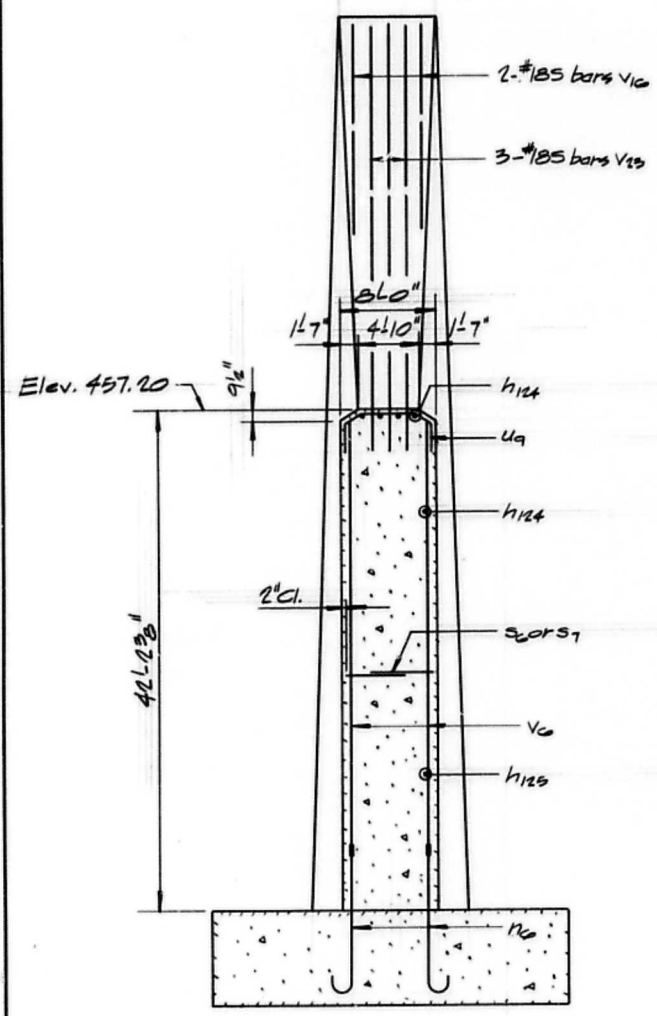


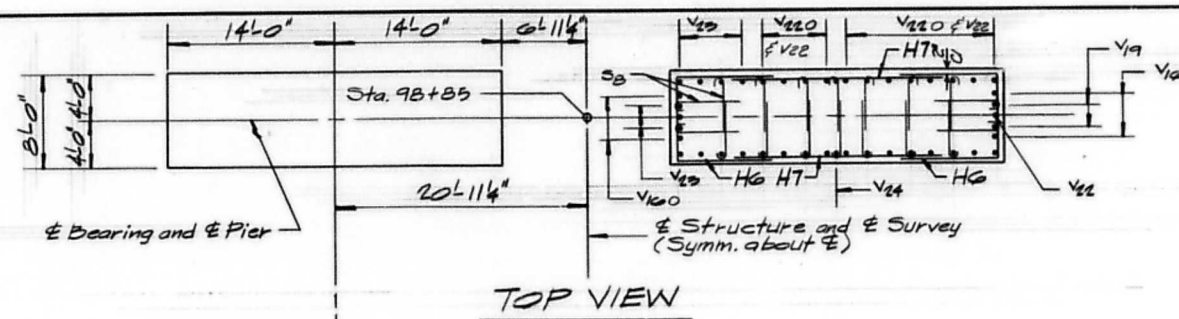
BAR H BENDING DIMENSIONS

Bar	F	G	H	J
H 6	8-2	7-7.5	8-2	6-0
H 7	8-2	0-0	0-0	6-2
H 8	8-0	7-6	8-0	6-1
H 9	8-0	0-3	0-1	6-0
H 10	7-11	7-4.5	7-11	6-2
H 11	7-11	0-6	0-2	7-11
H 12	7-10	7-3	7-10	0-2.5
H 13	7-10	0-9	0-2.5	7-10
H 14	7-8.5	7-1	7-8.5	0-3
H 15	7-8.5	0-11.5	0-3	7-8.5
H 16	7-7	7-0	7-7	0-4
H 17	7-7	1-2	0-4	7-7
H 18	7-6	6-10	7-6	0-5
H 19	7-6	1-5	0-5	7-6
H 20	7-5	6-9	7-4.5	0-6
H 21	7-5	1-3	0-6	7-4.5
H 22	7-3.5	6-7	7-3	0-7
H 23	7-3.5	1-10.5	0-7	7-3
H 24	7-2	6-5.5	7-2	0-7.5
H 25	7-2	2-1	0-7.5	7-2
H 26	7-1	6-4	7-1	0-8.5
H 27	7-1	2-4	0-8.5	7-1
H 28	7-0	6-2.5	6-11	0-9
H 29	7-0	2-7	0-9	6-11
H 30	6-11	6-1	6-10	0-10
H 31	6-11	2-10	0-10	6-10
H 32	6-9.5	5-11	6-9	0-11
H 33	6-9.5	3-0.5	0-11	6-9
H 34	6-8	5-10	6-7	1-0
H 35	6-8	3-3	1-0	6-7
H 36	6-7	5-8	6-6	1-1
H 37	6-7	3-6	1-1	6-6
H 38	6-6	3-7	6-5	1-2
H 39	6-6	3-9	1-2	6-5
H 40	6-5	5-5	6-3.5	1-2.5
H 41	6-5	3-11.5	1-2.5	6-3.5
H 42	6-4	5-3.5	6-2	1-3.5
H 43	6-4	4-2	1-3.5	6-2
H 44	6-2.5	5-2	6-1	1-4.5
H 45	6-2.5	4-5	1-4.5	6-1
H 46	6-1.5	5-0.5	5-11	1-5
H 47	6-1.5	4-8	1-5	5-11
H 48	6-0	4-11	5-10	1-6
H 49	6-0	4-11	1-6	5-10
H 50	5-11	4-9.5	5-9	1-7
H 51	5-11	5-1.5	1-7	5-9
H 52	5-10	4-8	5-7	1-8
H 53	5-10	5-4	1-8	5-7
H 54	5-9	4-6	5-6	1-9
H 55	5-9	5-7	5-9	5-6
H 56	5-8	4-5	5-4.5	1-10
H 57	5-8	5-10	1-10	5-4.5
H 58	5-7	4-3	5-3	1-11
H 59	5-7	6-0.5	1-11	5-3
H 60	5-6	4-2	5-2	2-0
H 61	5-6	6-3	2-0	5-2
H 62	5-5	4-0	5-0	2-1
H 63	5-5	6-6	2-1	5-0
H 64	5-4.5	3-10.5	4-11	2-2
H 65	5-4.5	6-9	2-2	4-11
H 66	5-3.5	3-9	4-9.5	2-3
H 67	5-3.5	6-11.5	2-3	4-9.5
H 68	5-3	3-7.5	4-8	2-4
H 69	5-3	7-2	2-4	4-8
H 70	5-2	3-6	4-6.5	2-5
H 71	5-2	7-5	2-5	4-6.5
H 72	5-1	3-4.5	4-6	2-6
H 73	5-1	7-8	2-6	4-6
H 74	5-0	3-3	4-1.5	2-7
H 75	5-0	7-10.5	2-7	4-1.5
H 76	4-11.5	8-1	2-8	2-8
H 77	4-11.5	8-1	2-8	4-2
H 78	4-11	3-0	4-0.5	2-9
H 79	4-11	8-4	2-9	4-0.5
H 80	4-10	2-13	3-1	2-10
H 81	4-10	8-7	2-10	3-11
H 82	4-9.5	2-9	3-9.5	2-11
H 83	4-9.5	8-9	2-11	3-9.5
H 84	4-9	2-7	3-8	3-0
H 85	4-9	9-0	3-0	3-8
H 86	4-8.5	2-6	3-6	3-1.5
H 87	4-8.5	9-3	3-1.5	3-6
H 88	4-8	2-4	3-5	3-2.5
H 89	4-8	9-5.5	3-2.5	3-5
H 90	4-7.5	2-3	3-3	3-3.5
H 91	4-7.5	9-8	3-3.5	3-3.5
H 92	4-7	2-1	3-1	3-4.5
H 93	4-7	9-11	3-4.5	3-1
H 94	4-7	2-0	3-0	3-5.5
H 95	4-7	10-2	3-0	3-0
H 96	4-6.5	1-10	3-6.5	3-6.5
H 97	4-6.5	10-4.5	3-6.5	2-10
H 98	4-6	1-9	2-8	3-7.5
H 99	4-6	10-7	2-8	3-8.5
H100	4-6	1-7	2-6.5	2-6.5
H101	4-6	10-10	2-6.5	2-6.5
H102	4-6	1-6	2-5	3-9.5
H103	4-6	11-0.5	2-5	2-5
H104	4-6	1-4	2-3	3-10.5
H105	4-6	11-3	2-3	3-10.5
H106	4-6	1-2.5	2-1	3-11.5
H107	4-6	11-6	2-1	3-11.5
H108	4-6	1-1	1-11.5	4-0.5
H109	4-6	11-9	4-0.5	1-11.5

TABULAR DIMENSIONS FOR PIER B

Distance in Feet From Top of Pier	(in feet)					
	A	a	B	b	d ₁	d ₂
0.00	26.00	0.00	6.00	8.00	14.00	
1.00	27.66	0.15	6.06	7.91	13.85	
2.00	27.73	0.31	6.13	7.82	13.71	
3.00	27.50	0.46	6.20	7.73	13.56	
4.00	27.44	0.62	6.26	7.64	13.42	
5.00	27.33	0.77	6.33	7.55	13.28	
6.00	27.29	0.93	6.39	7.46	13.14	
7.00	27.06	1.08	6.46	7.37	13.00	
8.00	26.93	1.24	6.53	7.28	12.85	
9.00	26.80	1.40	6.60	7.20	12.71	
10.00	26.66	1.55	6.66	7.11	12.57	
11.00	26.53	1.71	6.73	7.02	12.44	
12.00	26.40	1.86	6.80	6.93	12.30	
13.00	26.26	2.02	6.86	6.84	12.16	
14.00	26.13	2.17	6.93	6.75	12.02	
15.00	26.00	2.33	7.00	6.66	11.89	
16.00	25.86	2.48	7.06	6.57	11.75	
17.00	25.73	2.64	7.13	6.48	11.61	
18.00	25.60	2.80	7.20	6.40	11.48	
19.00	25.46	2.95	7.26	6.31	11.35	
20.00	25.33	3.11	7.33	6.22	11.21	
21.00	25.20	3.26	7.40	6.13	11.08	
22.00	25.06	3.42	7.46	6.04	10.95	
23.00	24.93	3.57	7.53	5.95	10.82	
24.00	24.80	3.73	7.60	5.86	10.69	
25.00	24.66	3.88	7.66	5.77	10.56	
26.00	24.53	4.04	7.73	5.68	10.44	
27.00	24.40	4.20	7.80	5.60	10.31	
28.00	24.26	4.35	7.86	5.51	10.19	
29.00	24.13	4.51	7.93	5.42	10.06	
30.00	24.00	4.66	8.00	5.33	9.94	
31.00	23.86	4.82	8.06	5.24	9.82	
32.00	23.73	4.97	8.13	5.15	9.70	
33.00	23.60	5.13	8.20	5.06	9.58	
34.00	23.46	5.28	8.26	4.97	9.46	
35.00	23.33	5.44	8.33	4.88	9.34	
36.00	23.20	5.60	8.40	4.80	9.23	
37.00	23.06	5.75	8.46	4.71	9.12	3.70
38.00	22.93	5.91	8.53	4.62	9.00	3.76
39.00	22.80	6.06	8.60	4.53	8.89	3.81
40.00	22.66	6.22	8.66	4.44	8.79	3.76
41.00	22.53	6.37	8.73	4.35	8.68	3.72
42.00	22.40	6.53	8.80	4.26	8.57	3.72
43.00	22.26	6.68	8.86	4.17	8.47	3.73
44.00	22.13	6.84	8.93	4.08	8.37	3.73
45.00	22.00	7.00	9.00	4.00	8.27	3.74
46.00	21.86	7.15	9.06	3.91	8.17	3.70
47.00	21.73	7.31	9.13	3.82	8.08	3.76
48.00	21.60	7.46	9.20	3.73	7.99	3.72
49.00	21.46	7.62	9.26	3.64	7.90	3.78
50.00	21.33	7.77	9.33	3.55	7.81	3.84
51.00	21.20	7.93	9.40	3.46	7.72	3.81
52.00	21.06	8.08	9.46	3.37	7.64	3.77
53.00	20.93	8.24	9.53	3.28	7.56	3.74
54.00	20.80	8.40	9.60	3.20	7.48	3.70
55.00	20.66	8.55	9.66	3.11	7.41	3.77
56.00	20.53	8.71	9.73	3.02	7.34	3.73
57.00	20.40	8.86	9.80	2.93	7.27	3.79
58.00	20.26	9.02	9.86	2.84	7.20	3.76
59.00	20.13	9.17	9.93	2.75	7.14	3.72
60.00	20.00	9.33	10.00	2.66	7.08	3.78
61.00	19.86	9.48	10.06	2.57	7.03	3.74
62.00	19.73	9.64	10.13	2.48	6.97	3.80
63.00	19.60	9.80	10.20	2.40	6.92	3.76
64.00	19.46	9.95	10.26	2.31	6.88	3.82
65.00	19.33	10.11	10.33	2.22	6.84	3.78
66.00	19.20	10.26	10.40	2.13	6.80	3.84
67.00	19.06	10.42	10.46	2.04	6.77	3.80
68.00	18.93	10.57	10.53	1.95	6.73	3.86
69.00	18.80	10.73	10.60	1.86	6.71	3.82
70.00	18.66	10.88	10.66	1.77	6.68	3.88
71.00	18.53	11.04	10.73	1.68	6.67	3.84
72.00	18.40	11.20	10.80	1.60	6.65	3.90
73.00	18.26	11.35	10.86	1.51	6.64	3.86
74.00	18.13	11.51	10.93	1.42	6.64	3.92
75.00	18.00	11.66	11.00	1.33	6.63	3.88
76.00	17.86	11.82	11.06	1.24	6.63	3.94
77.00	17.73	11.97	11.13	1.15	6.64	3.90
78.00	17.60	12.13	11.20	1.06	6.64	3.96
79.00	17.46	12.28	11.26	0.97	6.64	3.92
80.00	17.33	12.44	11.33	0.88	6.64	3.98
81.00	17.20	12.60	11.40	0.80	6.71	3.94
82.00	17.06	12.75	11.46	0.71	6.75	3.90
83.00	16.93	12.91	11.53	0.62	6.76	3.96
84.00	16.80	13.06	11.60	0.53	6.75	3.92
85.00	16.66	13.22	11.66	0.44	6.83	3.88
86.00	16.53	13.37	11.73	0.35	6.87	3.94
87.00	16.40	13.53	11.80	0.26	6.93	3.90
88.00	16.26	13.68	11.86	0.17	6.96	3.96
89.00	16.13	13.84	11.93	0.08	7.01	3.92
90.00	16.00	14.00	12.00	0.00	7.07	3.98





TOP VIEW

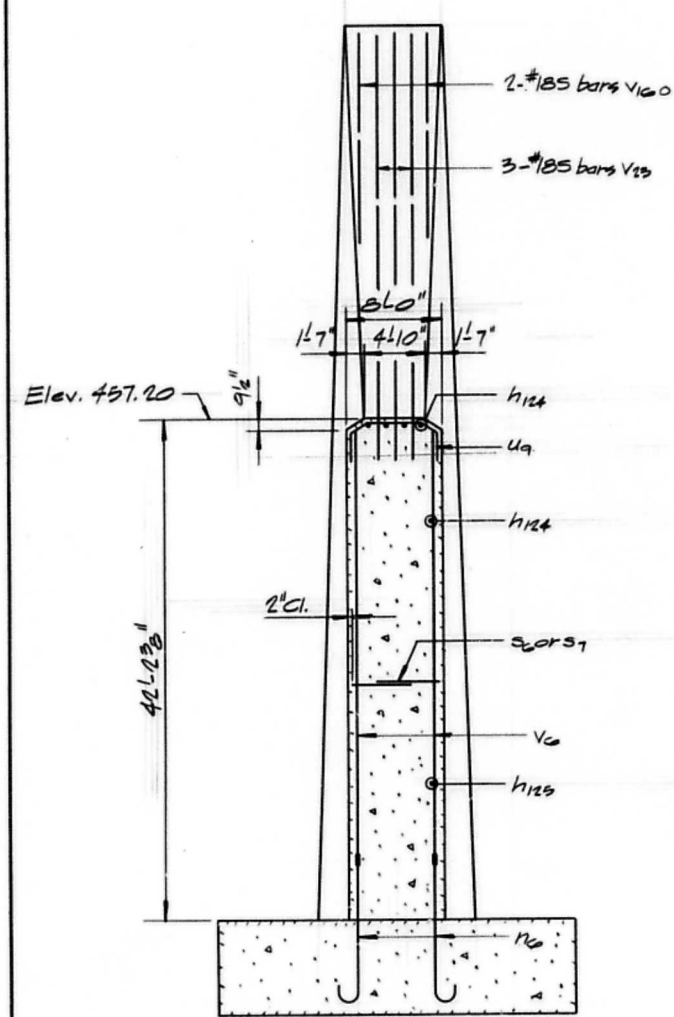
BAR H BENDING DIMENSIONS

Bar	F	G	H	J
H 6	8-2	7-7.5	8-2	0-0
H 7	8-2	0-0	0-0	8-2
H 8	8-0	7-6	8-0	0-1
H 9	8-0	0-3	0-1	8-0
H 10	7-11	7-4.5	7-11	0-2
H 11	7-11	0-6	0-2	7-11
H 12	7-10	7-3	7-10	0-2.5
H 13	7-10	0-9	0-2.5	7-10
H 14	7-8.5	7-1	7-8.5	0-3
H 15	7-8.5	0-11.5	0-3	7-8.5
H 16	7-7	7-0	7-7	0-4
H 17	7-7	1-2	0-4	7-7
H 18	7-6	6-10	7-6	0-5
H 19	7-6	1-5	0-5	7-6
H 20	7-5	6-9	7-4.5	0-6
H 21	7-5	1-8	0-6	7-4.5
H 22	7-3.5	6-7	7-3	0-7
H 23	7-3.5	1-10.5	0-7	7-3
H 24	7-2	6-5.5	7-2	0-7.5
H 25	7-2	2-1	0-7.5	7-2
H 26	7-1	6-4	7-1	0-8.5
H 27	7-1	2-4	0-8.5	7-1
H 28	7-0	6-2.5	6-11	0-9
H 29	7-0	2-7	0-9	6-11
H 30	6-11	6-1	6-10	0-10
H 31	6-11	2-10	0-10	6-10
H 32	6-9.5	5-11	6-9	0-11
H 33	6-9.5	3-0.5	0-11	6-9
H 34	6-8	5-10	6-7	1-0
H 35	6-8	3-3	1-0	6-7
H 36	6-7	5-8	6-6	1-1
H 37	6-7	3-6	1-1	6-6
H 38	6-6	6-7	6-5	1-2
H 39	6-6	3-9	1-2	6-6
H 40	6-5	5-5	6-3.5	1-2.5
H 41	6-5	3-11.5	1-2.5	6-3.5
H 42	6-4	5-3.5	6-2	1-3.5
H 43	6-4	4-2	1-3.5	6-2
H 44	6-2.5	5-2	6-1	1-4.5
H 45	6-2.5	4-5	1-4.5	6-1
H 46	6-1.5	5-0.5	5-11	1-5
H 47	6-1.5	4-8	1-5	5-11
H 48	6-0	4-11	5-10	1-6
H 49	6-0	4-11	1-6	5-10
H 50	5-11	4-9.5	5-9	1-7
H 51	5-11	5-1.5	1-7	5-9
H 52	5-10	4-8	5-7	1-8
H 53	5-10	5-4	1-8	5-7
H 54	5-9	4-6	5-6	1-9
H 55	5-9	5-7	1-9	5-6
H 56	5-8	4-5	5-3.5	1-10
H 57	5-8	5-10	1-10	5-4.5
H 58	5-7	4-3	5-3	1-11
H 59	5-7	6-0.5	1-11	5-3
H 60	5-6	4-2	5-2	2-0
H 61	5-6	6-3	2-0	5-2
H 62	5-5	4-0	5-0	2-1
H 63	5-5	6-6	2-1	5-0
H 64	5-4.5	3-10.5	4-11	2-2
H 65	5-4.5	6-9	2-2	4-11
H 66	5-3.5	3-9	4-9.5	2-3
H 67	5-3.5	4-11.5	2-3	4-9.5
H 68	5-3	3-7.5	4-8	2-4
H 69	5-3	7-2	2-4	4-8
H 70	5-2	3-6	4-6.5	2-5
H 71	5-2	7-5	2-5	4-6.5
H 72	5-1	3-4.5	4-5	2-6
H 73	5-1	7-8	2-6	4-5
H 74	5-0	3-3	4-3.5	2-7
H 75	5-0	7-10.5	2-7	4-3.5
H 76	4-11.5	3-1.5	4-2	2-8
H 77	4-11.5	0-1	2-8	4-2
H 78	4-11	3-0	4-0.5	2-9
H 79	4-11	4-4	2-9	4-0.5
H 80	4-10	2-10	3-11	2-10
H 81	4-10	8-7	2-10	3-11
H 82	4-9.5	2-9	3-9.5	2-11
H 83	4-9.5	8-9	2-11	3-9.5
H 84	4-9	2-7	3-8	3-0
H 85	4-9	9-0	3-0	3-8
H 86	4-8.5	2-6	3-6	3-1.5
H 87	4-8.5	9-3	3-1.5	3-6
H 88	4-8	2-4	3-5	3-2.5
H 89	4-8	9-5.5	3-2.5	3-5
H 90	4-7.5	2-3	3-3	3-3.5
H 91	4-7.5	9-8	3-3.5	3-3
H 92	4-7	2-1	3-1	3-4.5
H 93	4-7	9-11	3-1	3-4.5
H 94	4-7	2-0	3-5	3-5
H 95	4-7	10-2	3-5	3-0
H 96	4-6.5	1-10	2-10	3-6.5
H 97	4-6.5	10-4.5	3-6.5	2-10
H 98	4-6	1-9	2-8	3-7.5
H 99	4-6	10-7	3-7.5	2-8
H 100	4-6	1-7	2-6.5	3-8.5
H 101	4-6	10-10	3-8.5	2-6.5
H 102	4-6	1-6	2-5	3-9.5
H 103	4-6	11-0.5	3-9.5	2-5
H 104	4-6	1-4	2-3	3-10.5
H 105	4-6	11-3	2-10.5	2-3
H 106	4-6	1-2.5	2-1	3-11.5
H 107	4-6	11-6	3-11.5	2-1
H 108	4-6	1-1	1-11.5	4-0.5
H 109	4-6	11-9	4-0.5	1-11.5

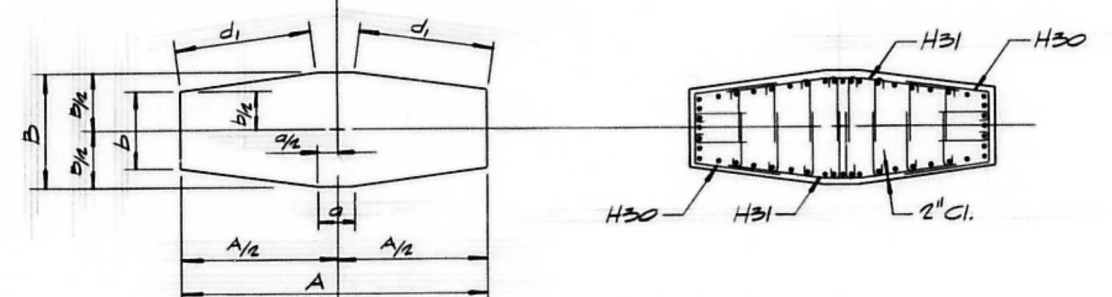
TABULAR DIMENSIONS FOR PIER B

Distance in Feet From Top of Pier

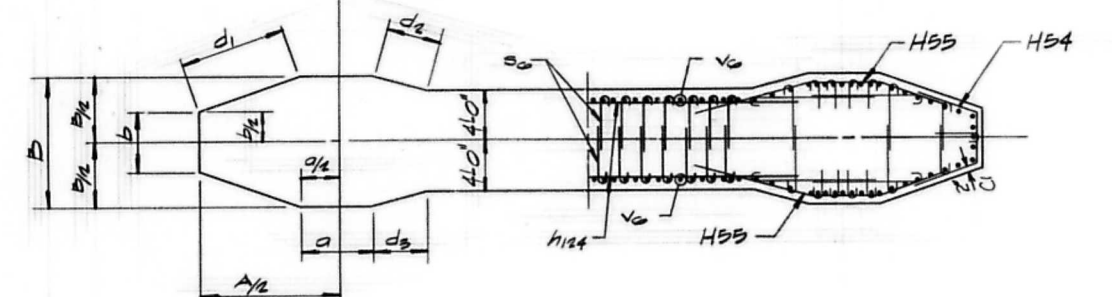
	A	a	b	d ₁	d ₂	d ₃
0.00	26.00	0.00	8.00	8.00	14.00	
1.00	27.66	0.15	8.04	7.91	13.85	
2.00	27.73	0.31	8.13	7.82	13.71	
3.00	27.60	0.46	8.20	7.72	13.56	
4.00	27.44	0.62	8.24	7.64	13.42	
5.00	27.33	0.77	8.33	7.55	13.28	
6.00	27.20	0.93	8.40	7.46	13.14	
7.00	27.06	1.08	8.46	7.37	13.00	
8.00	26.93	1.24	8.53	7.28	12.85	
9.00	26.80	1.40	8.60	7.20	12.71	
10.00	26.66	1.55	8.66	7.11	12.57	
11.00	26.53	1.71	8.73	7.02	12.44	
12.00	26.40	1.86	8.80	6.93	12.30	
13.00	26.26	2.02	8.86	6.84	12.16	
14.00	26.13	2.17	8.93	6.75	12.02	
15.00	26.00	2.33	9.00	6.66	11.89	
16.00	25.86	2.48	9.06	6.57	11.75	
17.00	25.73	2.64	9.13	6.48	11.61	
18.00	25.60	2.80	9.20	6.40	11.48	
19.00	25.46	2.95	9.26	6.31	11.35	
20.00	25.33	3.11	9.33	6.22	11.21	
21.00	25.20	3.26	9.40	6.13	11.08	
22.00	25.06	3.42	9.46	6.04	10.95	
23.00	24.93	3.57	9.53	5.95	10.82	
24.00	24.80	3.73	9.60	5.86	10.69	
25.00	24.66	3.88	9.66	5.77	10.56	
26.00	24.53	4.04	9.73	5.68	10.44	
27.00	24.40	4.20	9.80	5.60	10.31	
28.00	24.26	4.35	9.86	5.51	10.19	
29.00	24.13	4.51	9.93	5.42	10.06	
30.00	24.00	4.66	10.00	5.33	9.94	
31.00	23.86	4.82	10.06	5.24	9.82	
32.00	23.73	4.97	10.13	5.15	9.70	
33.00	23.60	5.13	10.20	5.06	9.58	
34.00	23.46	5.28	10.26	4.97	9.46	
35.00	23.33	5.44	10.33	4.88	9.34	
36.00	23.20	5.60	10.40	4.80	9.23	
37.00	23.06	5.75	10.46	4.71	9.12	3.90
38.00	22.93	5.91	10.53	4.62	9.00	3.66
39.00	22.80	6.06	10.60	4.53	8.89	3.61
40.00	22.66	6.22	10.66	4.44	8.79	3.76
41.00	22.53	6.37	10.73	4.35	8.68	3.72
42.00	22.40	6.53	10.80	4.26	8.57	3.67
43.00	22.26	6.68	10.86	4.17	8.47	3.63
44.00	22.13	6.84	10.93	4.08	8.37	3.58
45.00	22.00	7.00	11.00	4.00	8.27	3.54
46.00	21.86	7.15	11.06	3.91	8.17	3.50
47.00	21.73	7.31	11.13	3.82	8.08	3.46
48.00	21.60	7.46	11.20	3.73	7.99	3.42
49.00	21.46	7.62	11.26	3.64	7.90	3.38
50.00	21.33	7.77	11.33	3.55	7.81	3.34
51.00	21.20	7.93	11.40	3.46	7.72	3.31
52.00	21.06	8.08	11.46	3.37	7.64	3.27
53.00	20.93	8.24	11.53	3.28	7.56	3.24
54.00	20.80	8.40	11.60	3.20	7.48	3.20
55.00	20.66	8.55	11.66	3.11	7.41	3.17
56.00	20.53	8.71	11.73	3.02	7.34	3.14
57.00	20.40	8.86	11.80	2.93	7.27	3.11
58.00	20.26	9.02	11.86	2.84	7.20	3.08
59.00	20.13	9.17	11.93	2.75	7.14	3.06
60.00	20.00	9.33	12.00	2.66	7.08	3.03
61.00	19.86	9.48	12.06	2.57	7.03	3.01
62.00	19.73	9.64	12.13	2.48	6.97	2.99
63.00	19.60	9.80	12.20	2.40	6.92	2.96
64.00	19.46	9.95	12.26	2.31	6.88	2.95
65.00	19.33	10.11	12.33	2.22	6.84	2.93
66.00	19.20	10.26	12.40	2.13	6.80	2.91
67.00	19.06	10.42	12.46	2.04	6.77	2.89
68.00	18.93	10.57	12.53	1.95	6.73	2.88
69.00	18.80	10.73	12.60	1.86	6.71	2.87
70.00	18.66	10.88	12.66	1.77	6.69	2.86
71.00	18.53	11.04	12.73	1.68	6.67	2.85
72.00	18.40	11.20	12.80	1.60	6.65	2.85
73.00	18.26	11.35	12.86	1.51	6.64	2.84
74.00	18.13	11.51	12.93	1.42	6.64	2.84
75.00	18.00	11.66	13.00	1.33	6.63	2.84
76.00	17.86	11.82	13.06	1.24	6.63	2.84
77.00	17.73	11.97	13.13	1.15	6.64	2.84
78.00	17.60	12.13	13.20	1.06	6.63	2.85
79.00	17.46	12.28	13.26	0.97	6.66	2.85
80.00	17.33	12.44	13.33	0.88	6.68	2.86
81.00	17.20	12.60	13.40	0.80	6.70	2.87
82.00	17.06	12.75	13.46	0.71	6.73	2.88
83.00	16.93	12.91	13.53	0.62	6.76	2.89
84.00	16.80	13.06	13.60	0.53	6.79	2.91
85.00	16.66	13.22	13.66	0.44	6.83	2.92
86.00	16.53	13.37	13.73	0.35	6.87	2.93
87.00	16.40	13.53	13.80	0.26	6.91	2.94
88.00	16.26	13.68	13.86	0.17	6.96	2.98
89.00	16.13	13.84	13.93	0.08	7.01	3.00
90.00	16.00	14.00	14.00	0.00	7.07	3.03



SECTION D-D



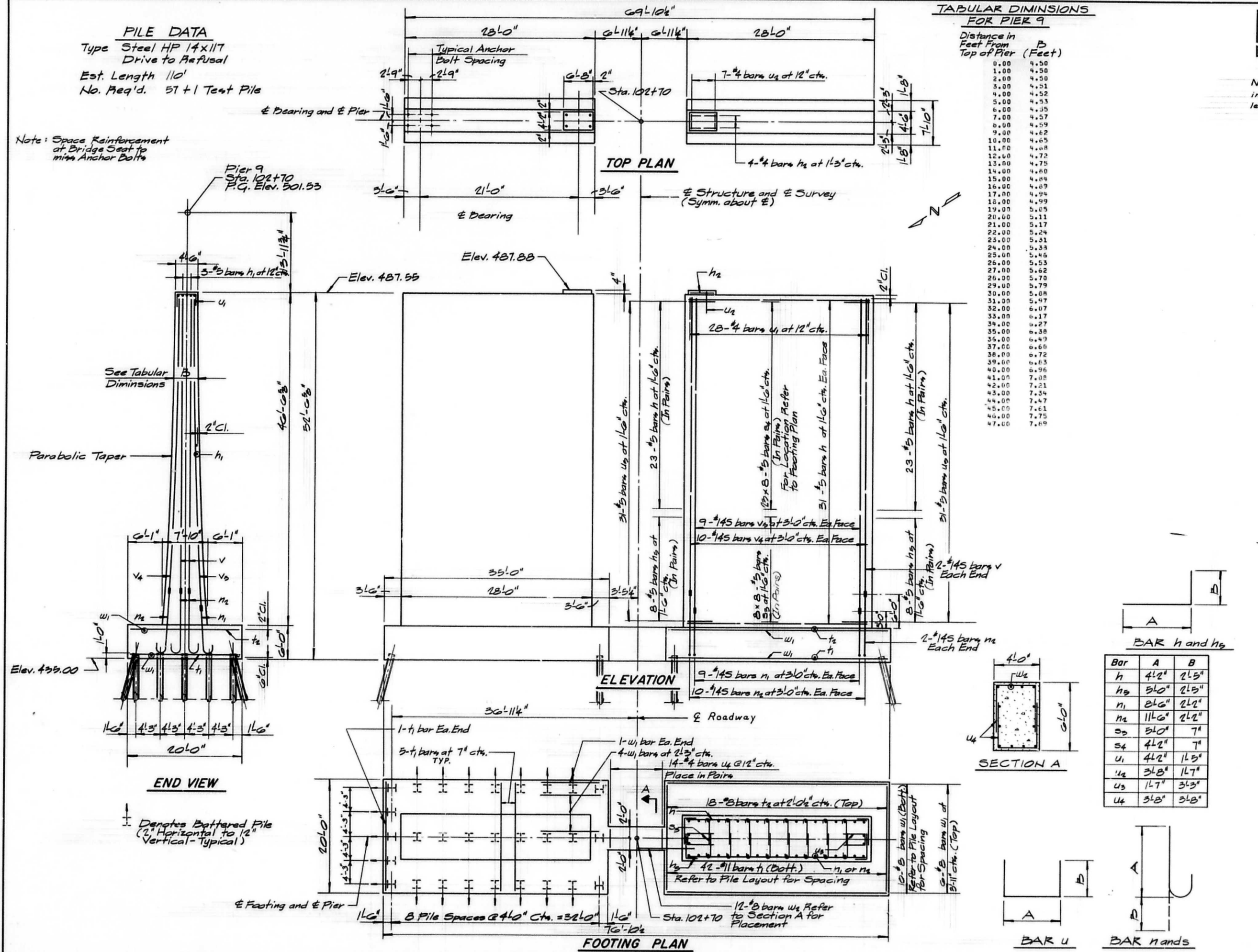
SECTION A-A



SECTION B-B

FILE DATA
 Type Steel HP 14x117
 Drive to Refusal
 Est. Length 110'
 No. Req'd. 57 + 1 Test Pile

Note: Space Reinforcement at Bridge Seat to miss Anchor Bolts



TABULAR DIMENSIONS FOR PIER 9

Distance in Feet From Top of Pier (Feet)

0.00	4.50
1.00	4.50
2.00	4.50
3.00	4.51
4.00	4.52
5.00	4.53
6.00	4.55
7.00	4.57
8.00	4.59
9.00	4.62
10.00	4.65
11.00	4.68
12.00	4.72
13.00	4.75
14.00	4.80
15.00	4.84
16.00	4.89
17.00	4.94
18.00	4.99
19.00	5.05
20.00	5.11
21.00	5.17
22.00	5.24
23.00	5.31
24.00	5.38
25.00	5.46
26.00	5.53
27.00	5.62
28.00	5.70
29.00	5.79
30.00	5.88
31.00	5.97
32.00	6.07
33.00	6.17
34.00	6.27
35.00	6.38
36.00	6.49
37.00	6.60
38.00	6.72
39.00	6.83
40.00	6.96
41.00	7.08
42.00	7.21
43.00	7.34
44.00	7.47
45.00	7.61
46.00	7.75
47.00	7.89

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	14
FED. ROAD DIV. NO.		ILLINOIS PROJECT		

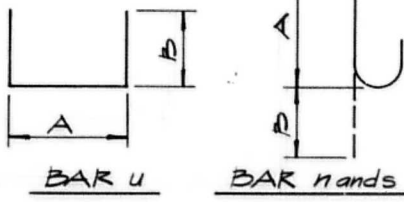
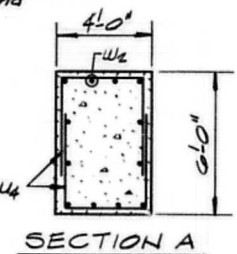
Note: Bars indicated 20x3--*5 etc. indicates 20 lines of bars with 3 lengths per line.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	184	#5	6'-7"	—
h1	130	#5	27'-6"	—
h2	8	#4	6'-4"	—
h3	64	#5	7'-5"	—
n1	36	#145	10'-8"	C
n2	48	#145	13'-8"	C
v	8	#145	40'-3"	—
v4	40	#145	40'-3"	—
v3	36	#145	43'-5"	—
s3	256	#5	5'-7"	C
s4	736	#5	4'-9"	C
u1	56	#4	5'-7"	L
u2	14	#4	5'-5"	L
u3	124	#5	6'-5"	L
u4	14	#4	11'-0"	L
t1	84	#11	19'-6"	—
t2	36	#8	19'-6"	—
w1	32	#8	3'-6"	—
w2	12	#8	22'-0"	—
Class X Concrete				Cu. Yds. 339.11
Reinforcing Bars				Lbs. 61360
Steel H Piles				Lin. Ft. 6270
Test Piles				Ea. 1

BAR h and h3

Bar	A	B
h	4'-2"	2'-5"
h3	5'-0"	2'-5"
n1	8'-6"	2'-2"
n2	11'-6"	2'-2"
s3	5'-0"	7"
s4	4'-2"	7"
u1	4'-2"	1'-5"
u2	3'-8"	1'-7"
u3	1'-7"	3'-5"
u4	3'-8"	3'-8"

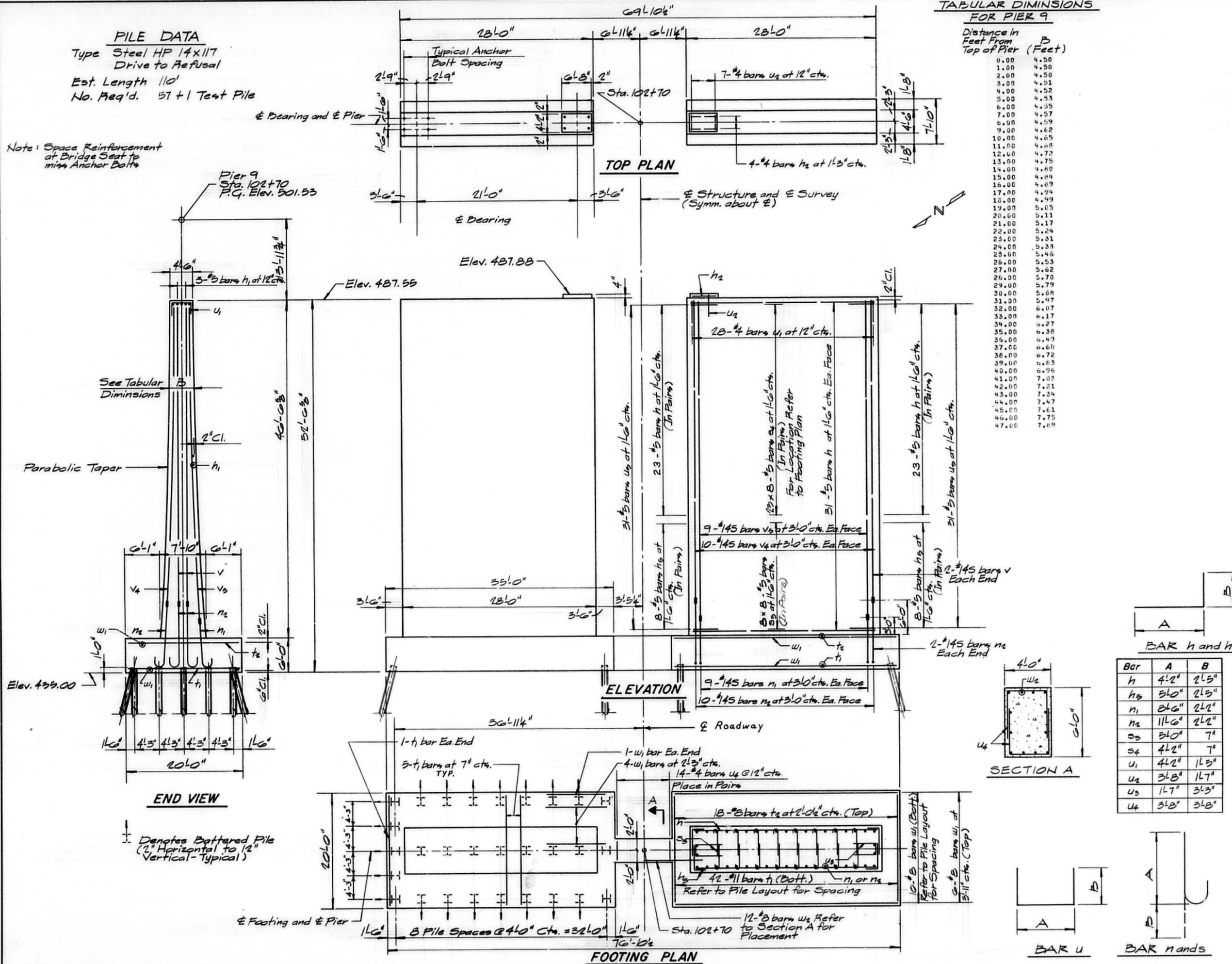


* Reinforcing bars shall be shop bent to conform to the tabular pier dimensions shown

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 PIER 9
 PROJECT:
 ILL. 9 over ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+50

FILE DATA
 Type Steel HP 14x17
 Drive to Refusal
 Est. Length 110'
 No. Req'd. 57 + 1 Test Pile

Note: Space Reinforcement at Bridge Seat to miss Anchor Bolts



TABULAR DIMENSIONS FOR PIER 9

Distance in Feet From Top of Pier (Feet)

0.00	4.50
1.00	4.50
2.00	4.50
3.00	4.51
4.00	4.52
5.00	4.53
6.00	4.55
7.00	4.57
8.00	4.59
9.00	4.62
10.00	4.65
11.00	4.68
12.00	4.72
13.00	4.75
14.00	4.80
15.00	4.84
16.00	4.89
17.00	4.94
18.00	4.99
19.00	5.05
20.00	5.11
21.00	5.17
22.00	5.24
23.00	5.31
24.00	5.33
25.00	5.46
26.00	5.53
27.00	5.62
28.00	5.70
29.00	5.79
30.00	5.88
31.00	5.97
32.00	6.07
33.00	6.17
34.00	6.27
35.00	6.38
36.00	6.49
37.00	6.60
38.00	6.72
39.00	6.85
40.00	6.96
41.00	7.08
42.00	7.21
43.00	7.34
44.00	7.47
45.00	7.61
46.00	7.75
47.00	7.89

Note: Bars indicated 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	184	#5	6'-7"	┌
h1	130	#5	27'-6"	┌
h2	8	#4	6'-4"	┌
h3	64	#5	7'-5"	┌
n1	36	#145	10'-8"	┌
n2	48	#145	13'-8"	┌
v	8	#145	40'-3"	┌
* v4	40	#145	40'-3"	┌
* v3	36	#145	43'-3"	┌
s3	256	#5	5'-7"	┌
s4	736	#5	4'-9"	┌
u1	56	#4	7'-0"	┌
u2	14	#4	6'-10"	┌
u3	124	#5	8'-1"	┌
u4	14	#4	11'-0"	┌
t1	84	#11	19'-6"	┌
t2	36	#8	19'-6"	┌
w1	32	#8	3'-6"	┌
w2	12	#8	22'-0"	┌
Class X Concrete				Cu. Yds. 839.1
Reinforcing Bars				Lbs. 61,850
Steel H Piles				Lin. Ft. 6,270
Test Piles				Ea. 1

BAR h and h2

Bar	A	B
h	4'-2"	2'-5"
h3	5'-0"	2'-5"
n1	8'-6"	2'-2"
n2	11'-6"	2'-2"
s3	5'-0"	7"
s4	4'-2"	7"
u1	4'-2"	1'-5"
u2	3'-8"	1'-7"
u3	1'-7"	3'-3"
u4	3'-8"	3'-8"

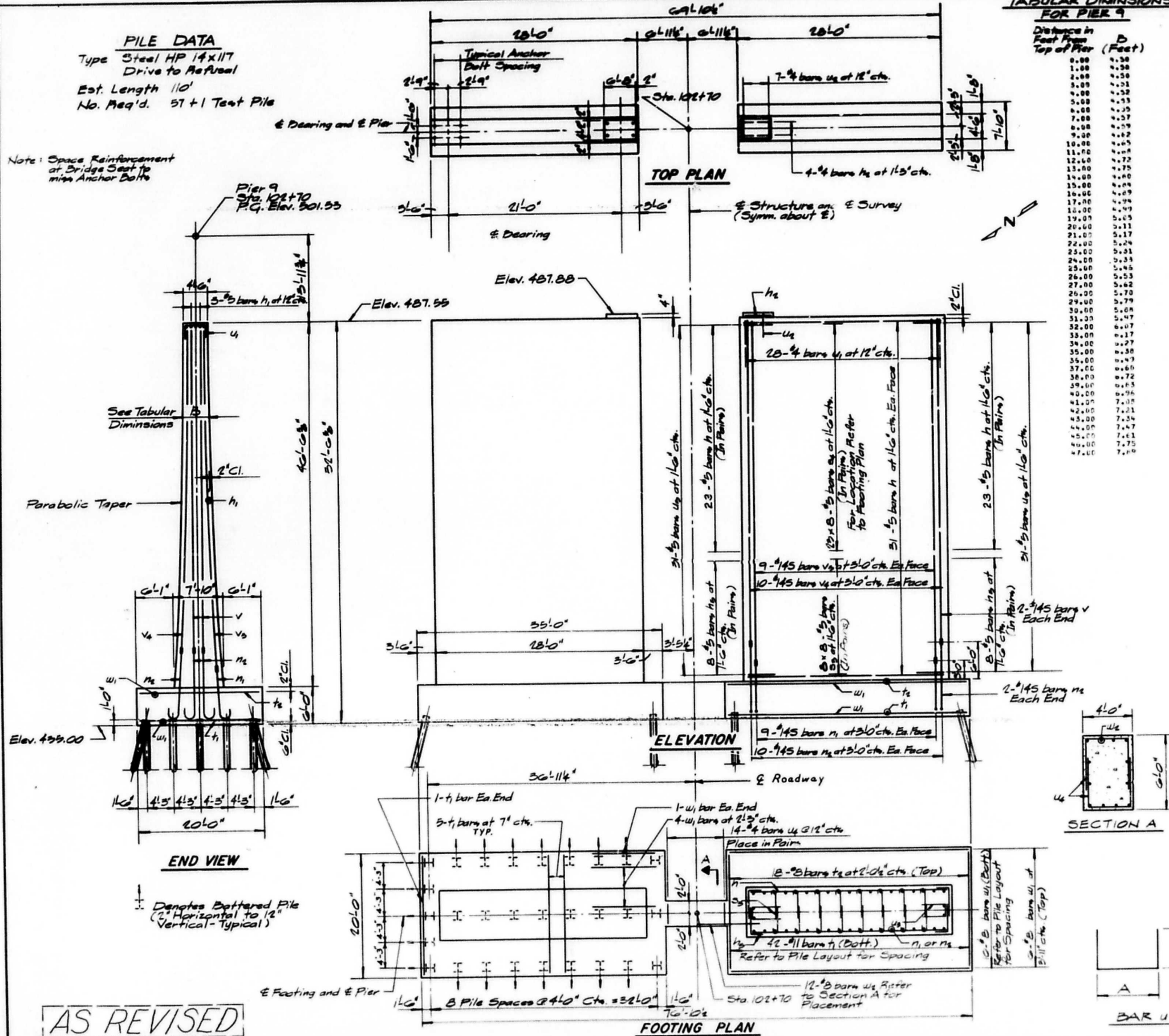
* Reinforcing bars shall be shop bent to conform to the tabular pier dimensions shown

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
PIER 9
 PROJECT:
 ILL. 9 over ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+50

Rev. Reinf. Bars from 61,560# to 61,850# 3-31-75 D.D.

PILE DATA
 Type Steel HP 14x17
 Drive to Refusal
 Est. Length 110'
 No. Req'd. 57 + 1 Test Pile

Note: Space Reinforcement at Bridge Seat to min Anchor Bolts



TABULAR DIMENSIONS FOR PIER 9

Distance in Feet from Top of Pier	D (Feet)
0.00	4.30
1.00	4.30
2.00	4.30
3.00	4.31
4.00	4.32
5.00	4.33
6.00	4.35
7.00	4.37
8.00	4.39
9.00	4.42
10.00	4.45
11.00	4.48
12.00	4.52
13.00	4.55
14.00	4.59
15.00	4.64
16.00	4.69
17.00	4.74
18.00	4.79
19.00	4.85
20.00	4.91
21.00	4.97
22.00	5.04
23.00	5.11
24.00	5.18
25.00	5.25
26.00	5.33
27.00	5.42
28.00	5.50
29.00	5.59
30.00	5.68
31.00	5.77
32.00	5.87
33.00	5.97
34.00	6.07
35.00	6.17
36.00	6.27
37.00	6.38
38.00	6.49
39.00	6.60
40.00	6.72
41.00	6.83
42.00	6.96
43.00	7.08
44.00	7.21
45.00	7.34
46.00	7.47
47.00	7.61
48.00	7.75
49.00	7.89

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	12B	PEORIA-TAZEWELL	22	14B

Note: Bars indicated 20-3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

Note: For additional reinforcement see sheet 14BB.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	184	#5	6'-7"	—
h1	120	#5	27'-6"	—
h2	8	#4	6'-4"	—
h3	64	#5	7'-5"	—
m1	56	#145	10'-8"	C
m2	48	#145	15'-8"	C
v	8	#145	40'-3"	—
v4	40	#145	40'-3"	—
v5	36	#145	43'-5"	—
s3	256	#5	5'-7"	C
s4	756	#5	4'-9"	C
u1	56	#4	7'-0"	—
u2	14	#4	6'-10"	—
u3	124	#5	8'-0"	—
u4	4	#4	11'-0"	—
r1	24	#1	19'-0"	—
r2	36	#3	19'-0"	—
w1	32	#3	24'-0"	—
w2	12	#3	22'-0"	—
Class X Concrete Cu. Yds. 559.2				
Reinforcing Bars Lbs. 41,950				
Steel H Piles Lin. Ft. 6170				
Test Piles Ea. 1				

BAR h and h3

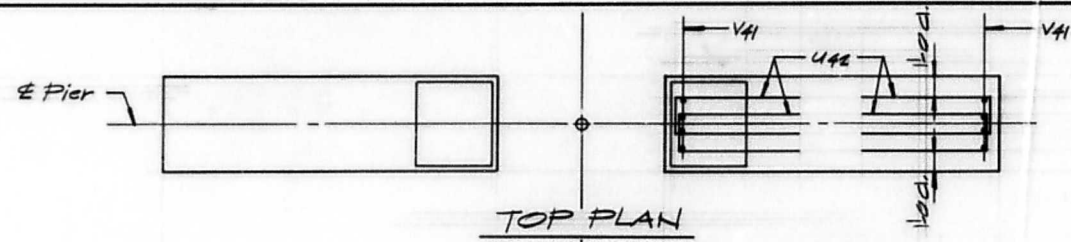
Bar	A	B
h	4'-2"	2'-5"
h3	3'-0"	2'-5"
m1	8'-6"	2'-2"
m2	11'-0"	2'-2"
s3	3'-0"	7"
s4	4'-2"	7"
u1	4'-2"	1'-5"
u2	3'-8"	1'-7"
u3	1'-7"	3'-3"
u4	3'-2"	3'-8"

* Reinforcing bars shall be shop bent to conform to the tabular pier dimensions shown

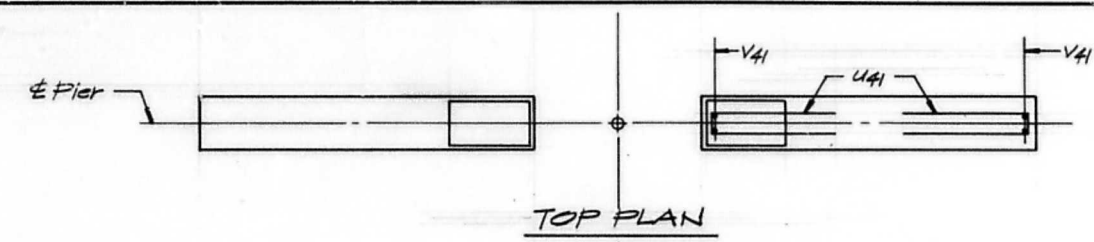
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 PIER 9
 PROJECT:
 ILL 9 over ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+50

AS REVISED

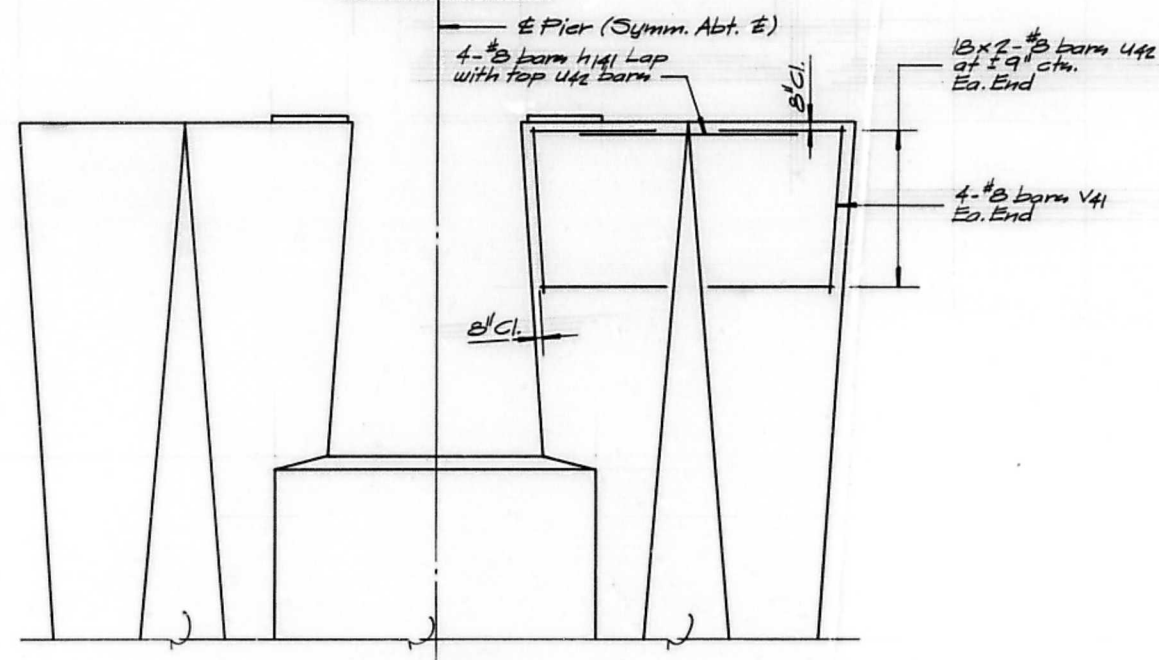
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 75	125	PEORIA-TAZEWELL	22	1488
FED. HJAD DIV. NO.	ILLINOIS	PROJECT		



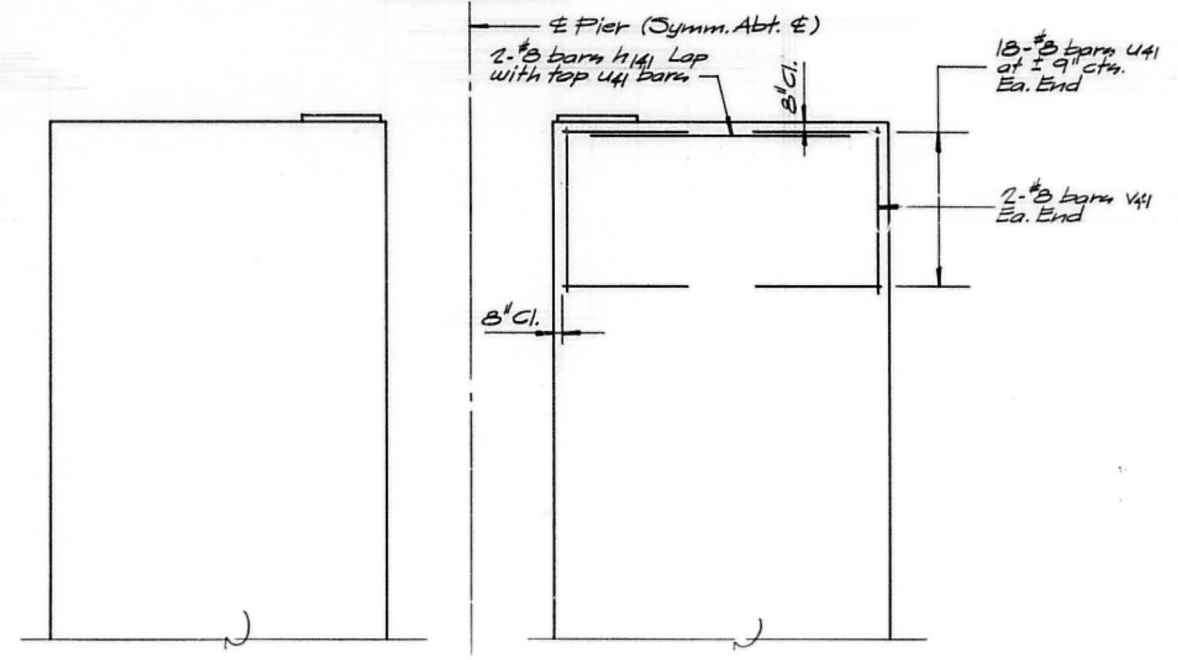
TOP PLAN



TOP PLAN



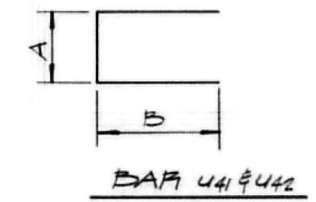
ELEVATION
PIERS 7&8



ELEVATION
PIERS 6&9

BILL OF MATERIAL
(Piers 6, 7, 8 & 9)

Bar	No.	Size	Length	Shape
V41	48	#8	14'0"	—
U41	144	#8	23'6"	U
U42	288	#8	25'0"	U
h141	24	#8	18'4"	—
Reinforcement Bars, Lbs.				31220



Bar	A	B
U41	2'6"	10'6"
U42	4'0"	10'6"

AS REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ADDITIONAL PIER REINFORCEMENT
PIERS 6 THROUGH 9
PROJECT: F-122
ILL. 9 over ILLINOIS RIVER
F.A.P. 75 SECTION 125
PEORIA-TAZEWELL COUNTIES
STA. 96+50

THE ENGINEERS COLLABORATIVE
CHICAGO ILLINOIS

SHEET
OF

GENERAL NOTES

1950 Chicago Building Code Soil Classifications are Used Except Where Noted

DRILLING & SAMPLING SYMBOLS

- SS : Split-Spoon - 1 1/2" I.D. 2" O.D. except where noted
- ST : Shelby Tube - 2" O.D. except where noted
- PA : Power Auger Sample
- DB : Diamond Bit - NX, BX, AX
- CB : Carbide Bit - NX, BX, AX
- OS : Osterberg Sampler - 3" Shelby Tube
- MS : Manual Sampler
- WS : Wash Sampler
- FT : Fish Tail
- RB : Rock Bit
- WO : Wash Out

Standard "N" Penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2 inch OD split spoon, J except where noted.

WATER LEVEL MEASUREMENT SYMBOLS

- WL : Water Level
- WCI : Wet Cave In
- DCI : Dry Cave In
- WS : While Sampling
- WD : While Drilling
- BCR : Before Casing Removal
- ACR : After Casing Removal
- AB : After Boring

Water levels indicated on the boring logs are the levels measured in the boring at the time indicated. In pervious soils, the indicated elevations are considered reliable ground water levels. In impervious soils, the accurate determination of ground water elevations is not possible in even several days observation, and additional evidence on ground water elevations must be sought.

CLASSIFICATION

COHESIONLESS SOILS		COHESIVE SOILS	
"Trace"	: 1% to 10%	If clay content is sufficient so that clay dominates soil properties, then clay becomes the principle noun with the other major soil constituent as modifier, i.e., silty clay. Other minor soil constituents may be added according to classification breakdown for cohesionless soils, i.e., silty clay, trace to some sand, trace gravel.	Soft : 0.00 - 0.99 tons/ft ² Silt : 0.60 - 0.99 tons/ft ² Tough : 1.00 - 1.99 tons/ft ² Very tough : 2.00 - 3.99 tons/ft ² Hard : \geq 4.00 tons/ft ²
"Trace to some"	: 10% to 30%		
"Some"	: 30% to 35%		
"And"	: 35% to 50%		
Loose	: 0 to 9 Blows		
Medium Dense	: 10 to 29 Blows	or equivalent	
Dense	: 30 to 59 Blows		
Very Dense	: \geq 60 Blows		

GENERAL NOTES

ST5

SOIL TESTING SERVICES, INC.
111 PINGSTEN ROAD
NORTHBROOK ILLINOIS

OWNER		LOG OF BORING NUMBER	
State of Illinois		B-1	
PROJECT NAME Proposed New Illinois Route 9 Bridge over Illinois River		ARCHITECT-ENGINEER The Engineers Collaborative	
SITE LOCATION Pekin, Illinois			
ELEVATION	DEPTH	DESCRIPTION OF MATERIAL	UNCONF. COMP. STRENGTH TONS/FT ²
432.0		SURFACE ELEVATION 432	
429.0	1	Clay, organic silt, trace sand & decayed wood - medium dark gray - stiff to tough (OL)	
427.0	2	Fine sand, some organic matter & shells - brown to dark gray (SP-OL)	
425.0	3	Silty clay, organic sand, trace shells - medium dark gray (OL-SH)	
423.0	4	Fine to medium sand & silt - gray & brown - dense - wet (SP)	
420.0	5	Sand & gravel, trace silt with occasional cobbles and a boulder #37 1/2' to 38' - brown & gray - dense - wet (GP)	
417.0	6	Gravel & sand, trace silt - light gray & dark gray - dense - wet (SP-GP)	
414.0	7	Sand & gravel, trace silt - light brown & light gray - very dense - wet (GP)	
411.0	8	Boring Continued	

OWNER		LOG OF BORING NUMBER	
State of Illinois		B-1 (Continued)	
PROJECT NAME Proposed New Illinois Route 9 Bridge over Illinois River		ARCHITECT-ENGINEER The Engineers Collaborative	
SITE LOCATION Pekin, Illinois			
ELEVATION	DEPTH	DESCRIPTION OF MATERIAL	UNCONF. COMP. STRENGTH TONS/FT ²
406.0		SURFACE ELEVATION	
405.0	1	Shale & siltstone - appears to be boulder size layer or slab & not bedrock	
403.0	2	Coulders, gravel & broken rock - no samples taken - classification based on drillers observation	
400.0	3	Shale bedrock - dark gray - horizontally bedded	
395.0	4	End of Boring	
		*Calibrated Penetrometer	
NOTE: Artesian water pressures cause water to rise 5' above river level after boring			
Bore hole grouted after boring			
25' of 4" Casing - 95' of 1 1/2" Casing - 9 bags of drill mud used.			

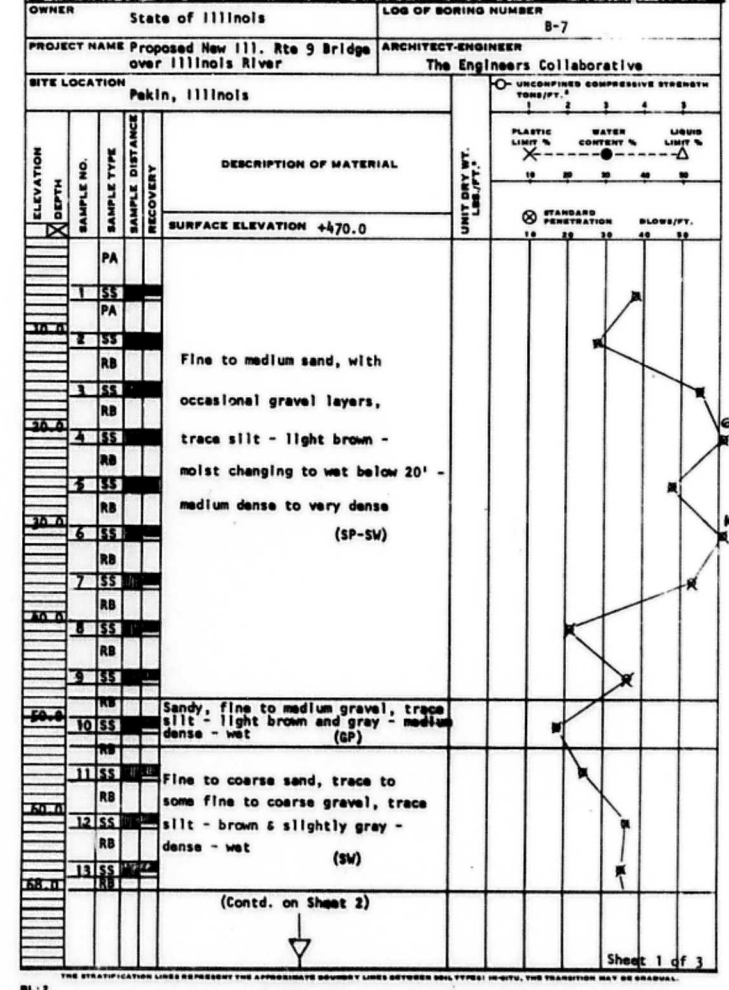
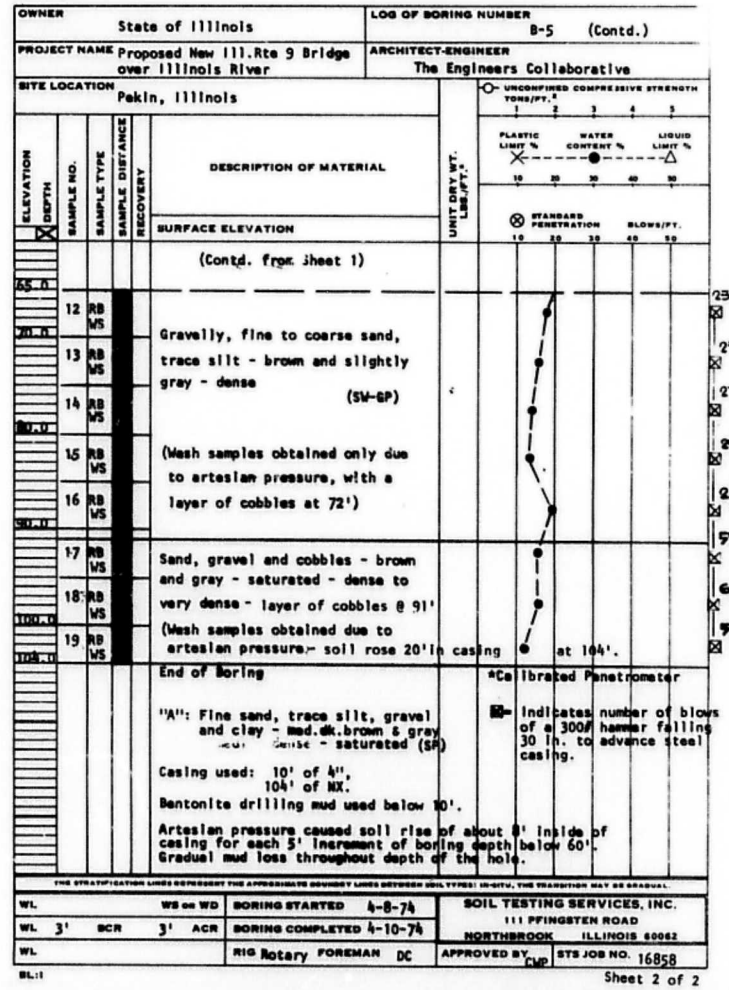
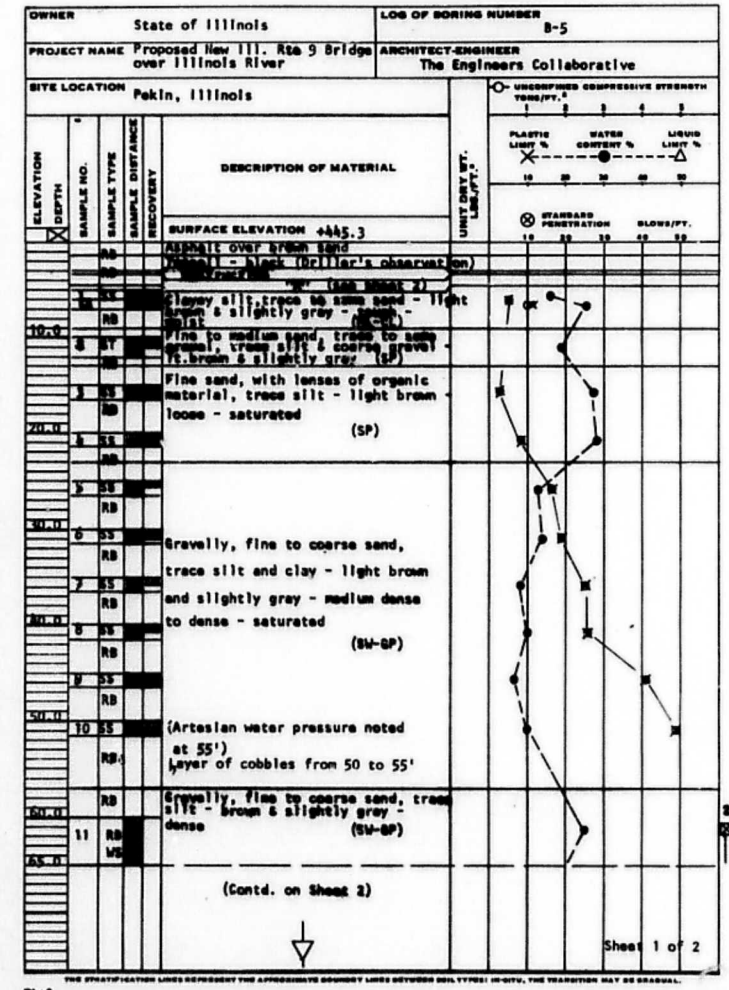
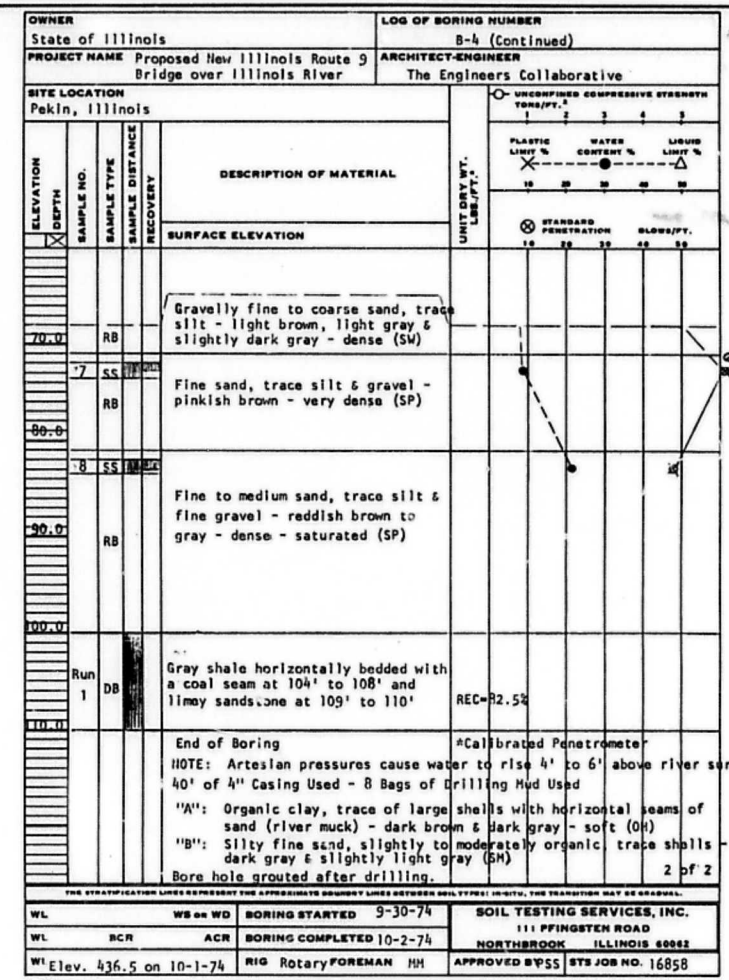
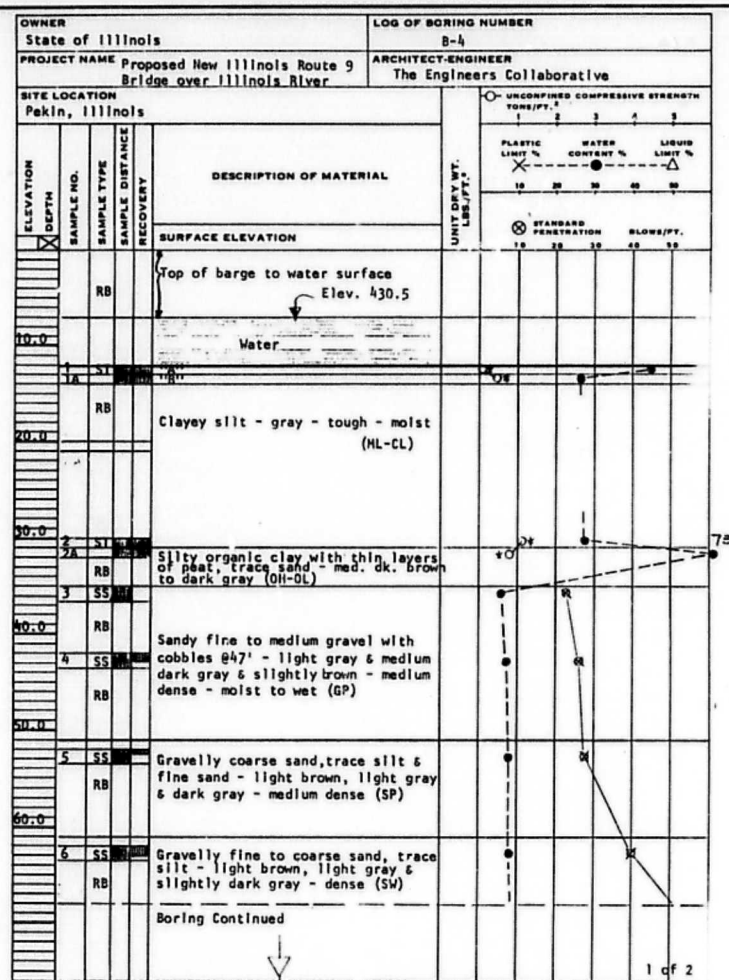
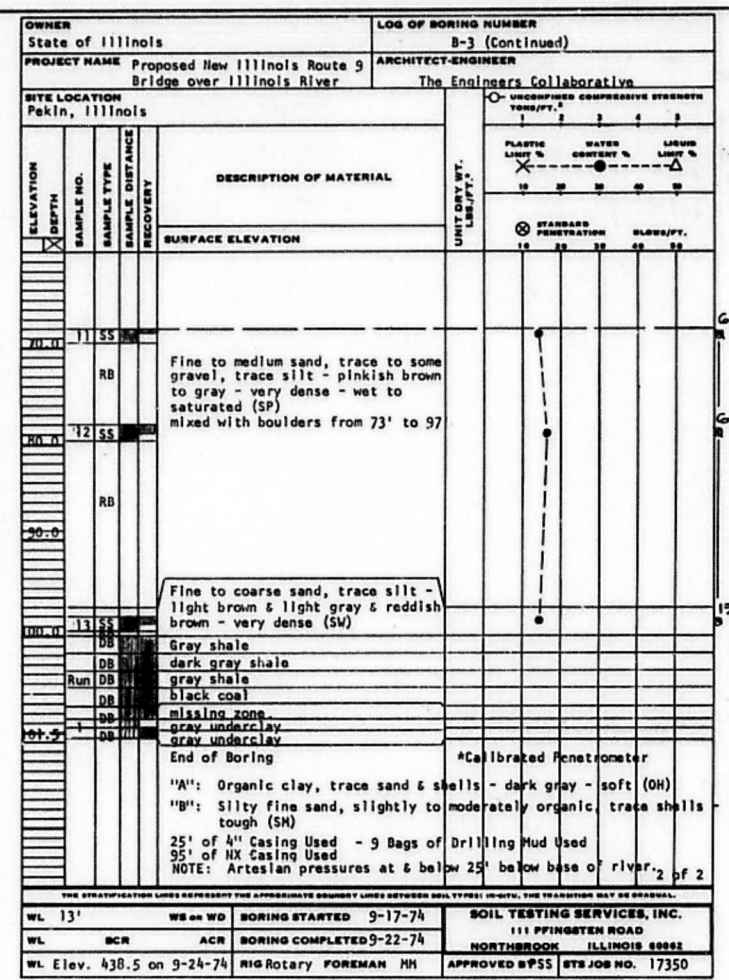
OWNER		LOG OF BORING NUMBER	
State of Illinois		B-2 (Continued)	
PROJECT NAME Proposed New Illinois Route 9 Bridge over Illinois River		ARCHITECT-ENGINEER The Engineers Collaborative	
SITE LOCATION Pekin, Illinois			
ELEVATION	DEPTH	DESCRIPTION OF MATERIAL	UNCONF. COMP. STRENGTH TONS/FT ²
431.5		SURFACE ELEVATION 431.5	
428.0	1	Sandy organic clay, trace shells - dark gray - soft (OL-OH)	
425.0	2	Fine to medium sand, trace clay, silt & shells with thin layers of organic silt - dark gray - loose to medium dense (SH-OL)	
423.0	3	Fine sand, trace silt - brown & medium dark gray - medium dense (SP)	
420.0	4	Organic clay, trace shells - medium dark gray - soft (OH)	
417.0	5	Gravelly sand, trace silt - light brown to gray - medium dense (SU)	
414.0	6	Fine sand, trace silt & shells - brown & light gray - loose to medium dense (SP)	
411.0	7	Sand & gravel with coal fragments and a boulder at 55' - light brown & black - dense (SU-GW)	
408.0	8	Boring Continued	

OWNER		LOG OF BORING NUMBER	
State of Illinois		B-3	
PROJECT NAME Proposed New Illinois Route 9 Bridge over Illinois River		ARCHITECT-ENGINEER The Engineers Collaborative	
SITE LOCATION Pekin, Illinois			
ELEVATION	DEPTH	DESCRIPTION OF MATERIAL	UNCONF. COMP. STRENGTH TONS/FT ²
432.5		Barge to water surface - Elev. 432.5	
430.0		Water	
428.0	1	Lost sample - silty clay, trace sand - driller's observation	
425.0	2	Clayey silt - gray - tough - medium dense (ML-CL)	
423.0	3	Clayey silt, slightly organic - gray - stiff to tough - loose - moist (ML-CL)	
420.0	4	Sandy fine to medium gravel, trace silt - brown to dark gray - medium dense (GP-SP)	
417.0	5	Gravelly fine to coarse sand, trace silt - light brown & silty dark gray - med. dense - moist to wet (SU) - Artesian conditions #38	
414.0	6	Fine to coarse sand & gravel, trace silt - light brown & medium dark gray - medium dense - wet (GP-SU)	
411.0	7	Gravelly coarse sand, trace silt - light brown, light gray & silty dark gray - medium dense (SP)	
408.0	8	Gravelly fine to coarse sand, trace silt - light brown & medium dark gray - medium dense (SU) Boulder #58'	
405.0	9	Fine to medium sand, trace to some gravel, trace silt - pinkish brown to gray - very dense - wet to saturated (SP) mixed with boulders from 73' to 97'	
402.0	10	Boring Continued	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	15
FED. ROAD DIV. NO.		ILLINOIS	PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
BORINGS
PROJECT:
ILL. 9 over ILLINOIS RIVER
F.A.P. 75 SECTION 12B
PEORIA-TAZEWELL COUNTIES
STA. 96+50

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	12B	PEORIA-TAZEWELL	22	16
FED. ROAD DIV. NO.		ILLINOIS PROJECT		



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 BORINGS
 PROJECT:
 ILL. 9 over ILLINOIS RIVER
 F.A.P. 75 SECTION 12B
 PEORIA-TAZEWELL COUNTIES
 STA. 96+50

THE ENGINEERS COLLABORATIVE
 CHICAGO ILLINOIS

SHEET 12 OF 23

OWNER		LOG OF BORING NUMBER		
State of Illinois		B-7 (Contd.)		
PROJECT NAME		ARCHITECT-ENGINEER		
Proposed New Ill. Rte 9 Bridge over Illinois River		The Engineers Collaborative		
SITE LOCATION		UNCONFINED COMPRESSIVE STRENGTH		
Pekin, Illinois		TONS/FT.²		
ELEVATION	DEPTH	PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %
SURFACE ELEVATION		STANDARD PENETRATION		BLOWS/FT.
+445.8		10 20 30 40 50		10 20 30 40 50
(Contd. from Sheet 1)				
173.0	RB			
170.0	RB			
166.0	RB			
162.0	RB			
158.0	RB			
154.0	RB			
150.0	RB			
146.0	RB			
142.0	RB			
138.0	RB			
134.0	RB			
130.0	RB			
126.0	RB			
122.0	RB			
118.0	RB			
114.0	RB			
110.0	RB			
106.0	RB			
102.0	RB			
98.0	RB			
94.0	RB			
90.0	RB			
86.0	RB			
82.0	RB			
78.0	RB			
74.0	RB			
70.0	RB			
66.0	RB			
62.0	RB			
58.0	RB			
54.0	RB			
50.0	RB			
46.0	RB			
42.0	RB			
38.0	RB			
34.0	RB			
30.0	RB			
26.0	RB			
22.0	RB			
18.0	RB			
14.0	RB			
10.0	RB			
6.0	RB			
2.0	RB			
0.0	RB			

BL 2

OWNER		LOG OF BORING NUMBER		
State of Illinois		B-8 (Contd.)		
PROJECT NAME		ARCHITECT-ENGINEER		
Proposed New Ill. Rte 9 Bridge over Illinois River		The Engineers Collaborative		
SITE LOCATION		UNCONFINED COMPRESSIVE STRENGTH		
Pekin, Illinois		TONS/FT.²		
ELEVATION	DEPTH	PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %
SURFACE ELEVATION		STANDARD PENETRATION		BLOWS/FT.
+445.8		10 20 30 40 50		10 20 30 40 50
(Contd. from Sheet 1)				
73.0	RB			
69.0	RB			
65.0	RB			
61.0	RB			
57.0	RB			
53.0	RB			
49.0	RB			
45.0	RB			
41.0	RB			
37.0	RB			
33.0	RB			
29.0	RB			
25.0	RB			
21.0	RB			
17.0	RB			
13.0	RB			
9.0	RB			
5.0	RB			
1.0	RB			
0.0	RB			

Sheet 2 of 3

OWNER		LOG OF BORING NUMBER		
State of Illinois		B-7 (Contd.)		
PROJECT NAME		ARCHITECT-ENGINEER		
Proposed New Ill. Rte 9 Bridge over Illinois River		The Engineers Collaborative		
SITE LOCATION		UNCONFINED COMPRESSIVE STRENGTH		
Pekin, Illinois		TONS/FT.²		
ELEVATION	DEPTH	PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %
SURFACE ELEVATION		STANDARD PENETRATION		BLOWS/FT.
+445.8		10 20 30 40 50		10 20 30 40 50
(Contd. from Sheet 2)				
173.0	RB			
170.0	RB			
166.0	RB			
162.0	RB			
158.0	RB			
154.0	RB			
150.0	RB			
146.0	RB			
142.0	RB			
138.0	RB			
134.0	RB			
130.0	RB			
126.0	RB			
122.0	RB			
118.0	RB			
114.0	RB			
110.0	RB			
106.0	RB			
102.0	RB			
98.0	RB			
94.0	RB			
90.0	RB			
86.0	RB			
82.0	RB			
78.0	RB			
74.0	RB			
70.0	RB			
66.0	RB			
62.0	RB			
58.0	RB			
54.0	RB			
50.0	RB			
46.0	RB			
42.0	RB			
38.0	RB			
34.0	RB			
30.0	RB			
26.0	RB			
22.0	RB			
18.0	RB			
14.0	RB			
10.0	RB			
6.0	RB			
2.0	RB			
0.0	RB			

Sheet 3 of 3

OWNER		LOG OF BORING NUMBER		
State of Illinois		B-9		
PROJECT NAME		ARCHITECT-ENGINEER		
Proposed New Ill. Rte 9 Bridge over Illinois River		The Engineers Collaborative		
SITE LOCATION		UNCONFINED COMPRESSIVE STRENGTH		
Pekin, Illinois		TONS/FT.²		
ELEVATION	DEPTH	PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %
SURFACE ELEVATION		STANDARD PENETRATION		BLOWS/FT.
+452.8		10 20 30 40 50		10 20 30 40 50
(Contd. from Sheet 1)				
73.0	RB			
69.0	RB			
65.0	RB			
61.0	RB			
57.0	RB			
53.0	RB			
49.0	RB			
45.0	RB			
41.0	RB			
37.0	RB			
33.0	RB			
29.0	RB			
25.0	RB			
21.0	RB			
17.0	RB			
13.0	RB			
9.0	RB			
5.0	RB			
1.0	RB			
0.0	RB			

Sheet 1 of 2

OWNER		LOG OF BORING NUMBER		
State of Illinois		B-8		
PROJECT NAME		ARCHITECT-ENGINEER		
Proposed New Ill. Rte 9 Bridge over Illinois River		The Engineers Collaborative		
SITE LOCATION		UNCONFINED COMPRESSIVE STRENGTH		
Pekin, Illinois		TONS/FT.²		
ELEVATION	DEPTH	PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %
SURFACE ELEVATION		STANDARD PENETRATION		BLOWS/FT.
+445.8		10 20 30 40 50		10 20 30 40 50
(Contd. from Sheet 1)				
73.0	RB			
69.0	RB			
65.0	RB			
61.0	RB			
57.0	RB			
53.0	RB			
49.0	RB			
45.0	RB			
41.0	RB			
37.0	RB			
33.0	RB			
29.0	RB			
25.0	RB			
21.0	RB			
17.0	RB			
13.0	RB			
9.0	RB			
5.0	RB			
1.0	RB			
0.0	RB			

Sheet 1 of 2

OWNER		LOG OF BORING NUMBER		
State of Illinois		B-9 (Contd.)		
PROJECT NAME		ARCHITECT-ENGINEER		
Proposed New Ill. Rte 9 Bridge over Illinois River		The Engineers Collaborative		
SITE LOCATION		UNCONFINED COMPRESSIVE STRENGTH		
Pekin, Illinois		TONS/FT.²		
ELEVATION	DEPTH	PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %
SURFACE ELEVATION		STANDARD PENETRATION		BLOWS/FT.
+452.8		10 20 30 40 50		10 20 30 40 50
(Contd. from Sheet 1)				
73.0	RB			
69.0	RB			
65.0	RB			
61.0	RB			
57.0	RB			
53.0	RB			
49.0	RB			
45.0	RB			
41.0	RB			
37.0	RB			
33.0	RB			
29.0	RB			
25.0	RB			
21.0	RB			
17.0	RB			
13.0	RB			
9.0	RB			
5.0	RB			
1.0	RB			
0.0	RB			

Sheet 2 of 2

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EA 75	12B	PEORIA-TAZEWELL	22	17
FED. ROAD DIV. NO		ILLINOIS PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
BORINGS
PROJECT:
ILL. 9 over ILLINOIS RIVER
F.A.P. 75 SECTION 12B
PEORIA-TAZEWELL COUNTIES
STA. 96+50

THE ENGINEERS COLLABORATIVE
CHICAGO ILLINOIS

SHEET
13 OF 18

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 75	12B	PEORIA-TAZEWELL	22	18
FED. ROAD DIV. NO.		ILLINOIS PROJECT		

OWNER State of Illinois		LOG OF BORING NUMBER B-10	
PROJECT NAME Proposed New Ill. Rte 9 Bridge over Illinois River		ARCHITECT-ENGINEER The Engineers Collaborative	
SITE LOCATION Pekin, Illinois		UNCONFINED COMPRESSIVE STRENGTH (TONS/FT.²)	
DESCRIPTION OF MATERIAL		PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %	
SURFACE ELEVATION +445.8		STANDARD PENETRATION BLOWS/FT.	
ELEVATION DEPTH	SAMPLE NO. SAMPLE TYPE SAMPLE DISTANCE RECOVERY	UNITS DRY WT. LBS./FT.³	
10.0	1 RB	Miscellaneous Fill including sand, silt, clinders, brick and topsoil - light brown, red brown, black and dark gray (SP-OH-OL-Fill)	
20.0	3 ST	Organic clay - dark brown and dark gray - stiff to soft (OH)	
30.0	6 ST	Organic clay and silt, trace decayed roots and wood - gray - stiff to tough (OL-OH)	
40.0	8 SY	Fine sand, trace shells, silt and clay - dark gray & slightly brown - moist to wet (GP)	
50.0	10 SS	Sandy, fine to medium gravel - light brown, lt. gray & dark gray - dense - saturated (GP)	
60.0	12 SS	Sandy, fine to medium gravel, trace silt - light brown & slightly gray - dense - wet (GP)	
(Contd. on Sheet 2)			

OWNER State of Illinois		LOG OF BORING NUMBER B-10 (Contd.)	
PROJECT NAME Proposed New Ill. Rte 9 Bridge over Illinois River		ARCHITECT-ENGINEER The Engineers Collaborative	
SITE LOCATION Pekin, Illinois		UNCONFINED COMPRESSIVE STRENGTH (TONS/FT.²)	
DESCRIPTION OF MATERIAL		PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %	
SURFACE ELEVATION		STANDARD PENETRATION BLOWS/FT.	
ELEVATION DEPTH	SAMPLE NO. SAMPLE TYPE SAMPLE DISTANCE RECOVERY	UNITS DRY WT. LBS./FT.³	
63.0	13 SS	Gravelly, fine to coarse sand, trace silt - lt. brown & lt. gray and green - dense - wet (SW-GP)	
70.0	15 SS	Gravelly, fine to coarse sand, trace silt - lt. brown & slightly gray - dense - moist to wet (SW)	
80.0	16 SS	Sandy, fine to medium gravel, trace silt - light brown, light gray and dark gray - very dense to dense - wet (GP)	
90.0	17 SS	Fine to coarse sand & fine gravel, trace silt - brown & dark gray - dense - moist to wet (SW-GP)	
100.0	18 SS	Sandy, fine to medium gravel, trace silt - lt. brown, lt. gray and slightly dark gray - dense - wet (GP)	
110.0	19 SS	Cobbles and boulders (Driller's observation)	
120.0	20 VS	Sand and gravel, trace silt - dark gray - wet (GP-SP)	
130.0	21 DB	Dark gray shale - thin, horizontally bedded with some coal-like seams - some washout due to drilling operations - also clayey seams. Run #1: Recovery = 25%, RQD = 0. Run #2: Recovery = 89%, RQD = 75%. End of Boring	
(Contd. on Sheet 3)			

OWNER State of Illinois		LOG OF BORING NUMBER B-10 (Contd.)	
PROJECT NAME Proposed New Ill. Rte 9 Bridge over Illinois River		ARCHITECT-ENGINEER The Engineers Collaborative	
SITE LOCATION Pekin, Illinois		UNCONFINED COMPRESSIVE STRENGTH (TONS/FT.²)	
DESCRIPTION OF MATERIAL		PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %	
SURFACE ELEVATION		STANDARD PENETRATION BLOWS/FT.	
ELEVATION DEPTH	SAMPLE NO. SAMPLE TYPE SAMPLE DISTANCE RECOVERY	UNITS DRY WT. LBS./FT.³	
(Contd. from Sheet 2)			
Notes: 1) 75' of 4" casing used. 2) 110' of NX " " " 3) Artesian Pressure noted while drilling below 55'. Heavy bentonite and Portland Cement drilling mud used. At 80', soil rose 25' in casing. 4) 90% water loss while drilling between 50' & 55'.			
(Contd. on Sheet 3)			

OWNER State of Illinois		LOG OF BORING NUMBER B-11	
PROJECT NAME Proposed New Ill. Rte 9 Bridge over Illinois River		ARCHITECT-ENGINEER The Engineers Collaborative	
SITE LOCATION Pekin, Illinois		UNCONFINED COMPRESSIVE STRENGTH (TONS/FT.²)	
DESCRIPTION OF MATERIAL		PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %	
SURFACE ELEVATION +442.1		STANDARD PENETRATION BLOWS/FT.	
ELEVATION DEPTH	SAMPLE NO. SAMPLE TYPE SAMPLE DISTANCE RECOVERY	UNITS DRY WT. LBS./FT.³	
10.0	1 FT	Miscellaneous Fill including brick, glass, etc. - reddish brown and dark gray (Fill)	
20.0	2 ST	Silty clay - dark brown and medium gray - tough (CL-CH)	
30.0	3 ST	Organic clay - dark gray - stiff (OL-OH)	
40.0	4 FT	Silty and sandy clay, trace shells and decayed wood - slightly organic - greenish gray - soft (CL-ML)	
50.0	5 ST	Silty clay, slightly organic - gray - stiff (CL-CH)	
60.0	6 ST	Clayey silt, trace shale - gray - tough (ML-CL)	
70.0	7 ST	Silty, very fine sand, trace shell slightly organic - gray - saturated (SH)	
80.0	8 RB	Gravelly, fine to coarse sand, trace silt - gray-brown - saturated (SW)	
90.0	9 RB	Fine to coarse sand and gravel, some cobbles - light brown and light gray - dense to very dense - saturated (SW-GW)	
(Contd. on Sheet 2)			

OWNER State of Illinois		LOG OF BORING NUMBER B-11 (Contd.)	
PROJECT NAME Proposed New Ill. Rte 9 Bridge over Illinois River		ARCHITECT-ENGINEER The Engineers Collaborative	
SITE LOCATION Pekin, Illinois		UNCONFINED COMPRESSIVE STRENGTH (TONS/FT.²)	
DESCRIPTION OF MATERIAL		PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %	
SURFACE ELEVATION		STANDARD PENETRATION BLOWS/FT.	
ELEVATION DEPTH	SAMPLE NO. SAMPLE TYPE SAMPLE DISTANCE RECOVERY	UNITS DRY WT. LBS./FT.³	
(Contd. from Sheet 1)			
65.0	14 DP	(Same description contd. from 48')	
70.0	14 DP	Fine to coarse sand and gravel, some cobbles - light brown and light gray - dense to very dense - saturated (SW-GW)	
80.0	14 RB	Sand, gravel, cobbles and boulders - brown and gray - dense to very dense - saturated (SW-GW)	
90.0	15 RB	Sand, gravel, cobbles and boulders - brown and gray - dense to very dense - saturated (SW-GW)	
100.0	16 RB	Granite boulder	
110.0	17 RB	Sand and gravel (Run #1: Recovery = 72%, RQD = 100%)	
120.0	18 DB	Shale - gray - large part washed out	
130.0	19 DB	Coal - black (Run #2: Recovery = 48%, RQD = 23%)	
140.0	20 DB	Gray underclay (Recovery = 48%, RQD = 23%)	
150.0	21 RB	Sandstone - gray - with calcareous cementation	
(Contd. on Sheet 3)			

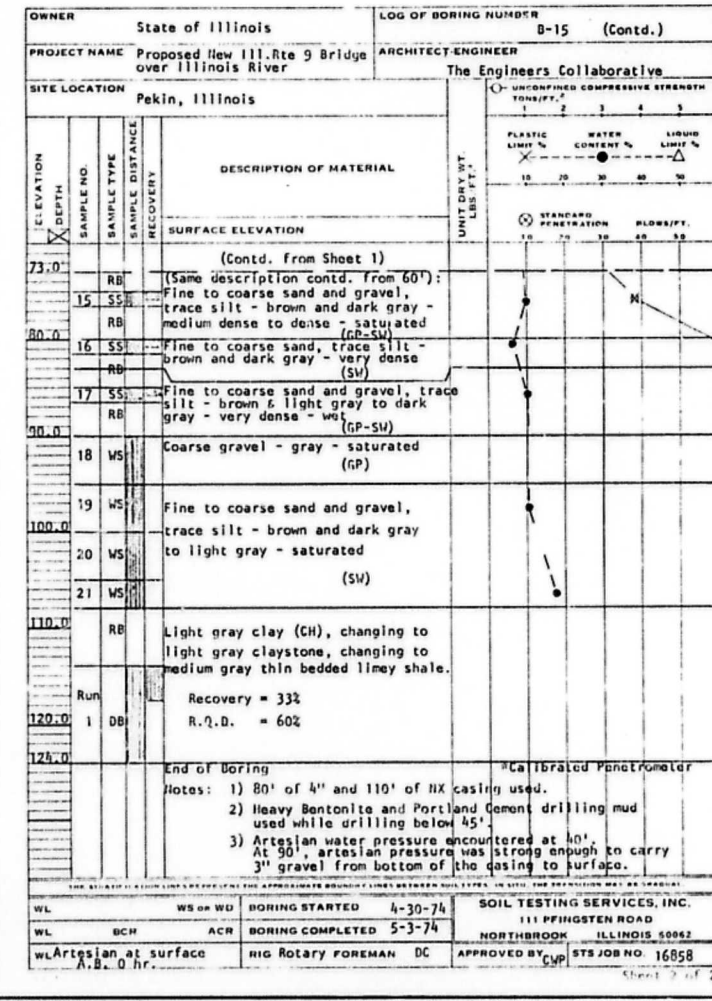
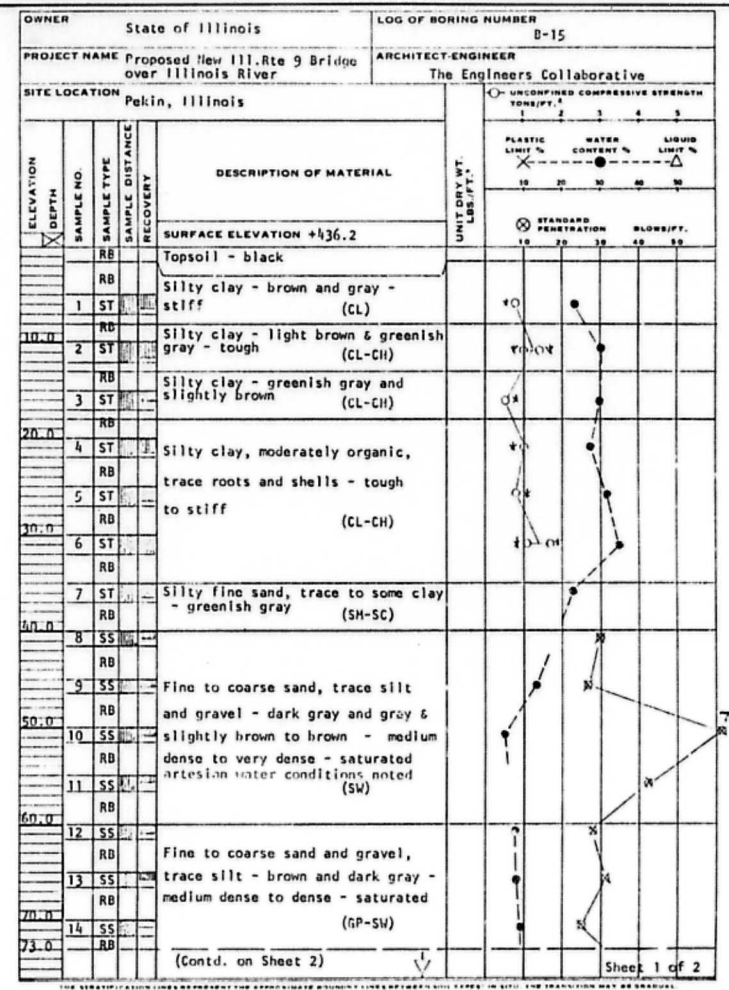
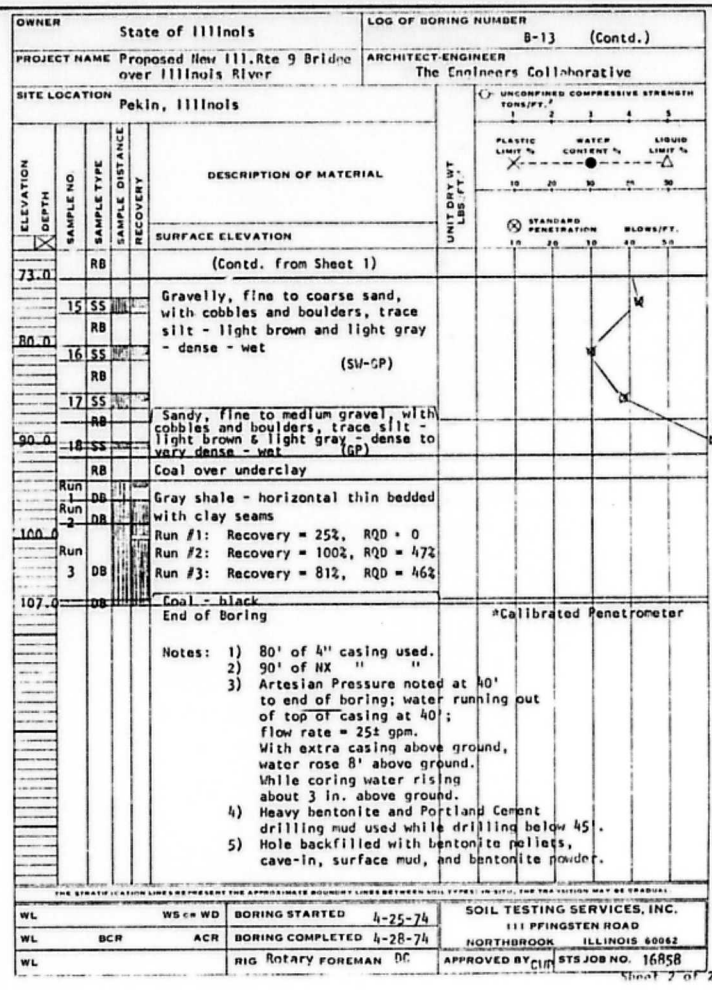
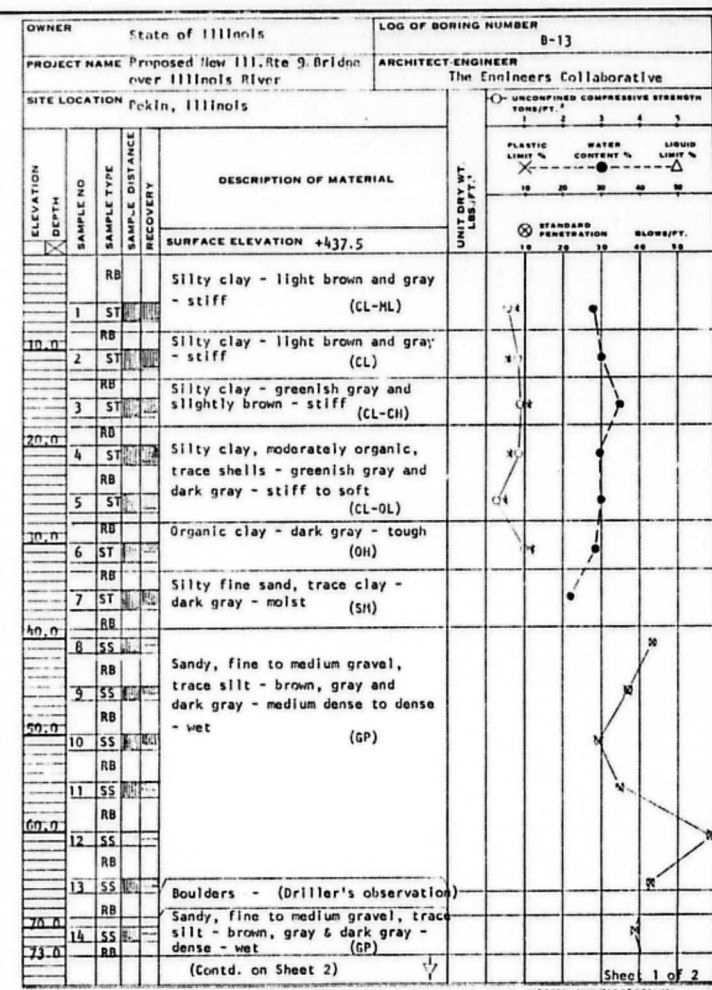
OWNER State of Illinois		LOG OF BORING NUMBER B-11 (Contd.)	
PROJECT NAME Proposed New Ill. Rte 9 Bridge over Illinois River		ARCHITECT-ENGINEER The Engineers Collaborative	
SITE LOCATION Pekin, Illinois		UNCONFINED COMPRESSIVE STRENGTH (TONS/FT.²)	
DESCRIPTION OF MATERIAL		PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %	
SURFACE ELEVATION		STANDARD PENETRATION BLOWS/FT.	
ELEVATION DEPTH	SAMPLE NO. SAMPLE TYPE SAMPLE DISTANCE RECOVERY	UNITS DRY WT. LBS./FT.³	
(Contd. from Sheet 2)			
Notes: 1) 80' of 4" casing used. 2) 111' of NX casing used. 3) Drilling mud used below 45'. 4) 5' of casing came off at 85', causing 100% water loss and necessitating moving 12' North to extend the hole.			
(Contd. on Sheet 3)			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
BORINGS
PROJECT:
ILL. 9 over ILLINOIS RIVER
F.A.P. 75 SECTION 12B
PEORIA-TAZEWELL COUNTIES
STA. 96+50

THE ENGINEERS COLLABORATIVE
CHICAGO ILLINOIS

SHEET
14 OF 23

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 75	17B	PEORIA-TAZEWELL	22	19
FED. ROAD DIV. NO.		ILLINOIS PROJECT		

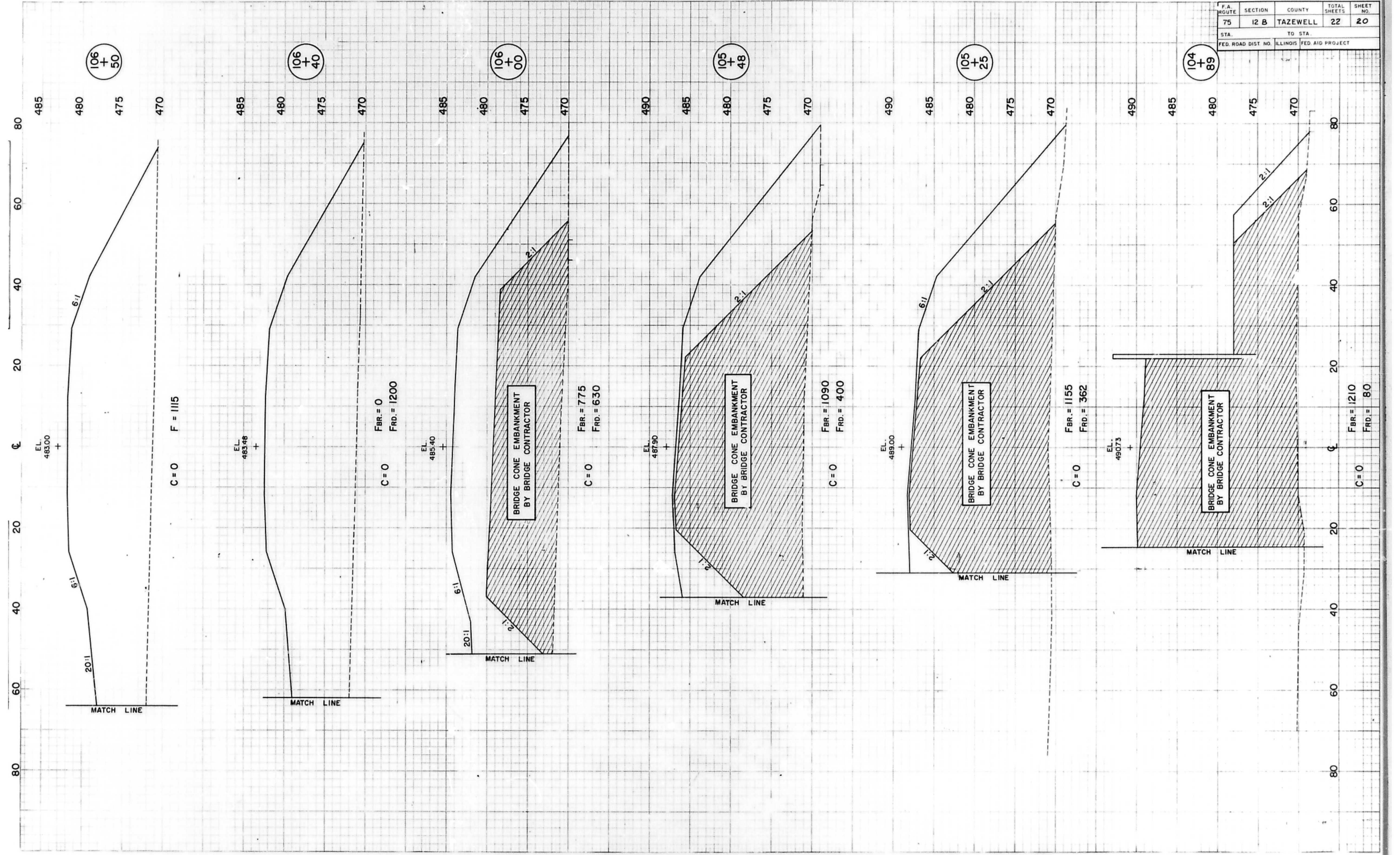


STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 BORINGS
 PROJECT:
 ILL. 9 over ILLINOIS RIVER
 F.A.R. 75 SECTION 17B
 PEORIA-TAZEWELL COUNTIES
 STA. 96 +50

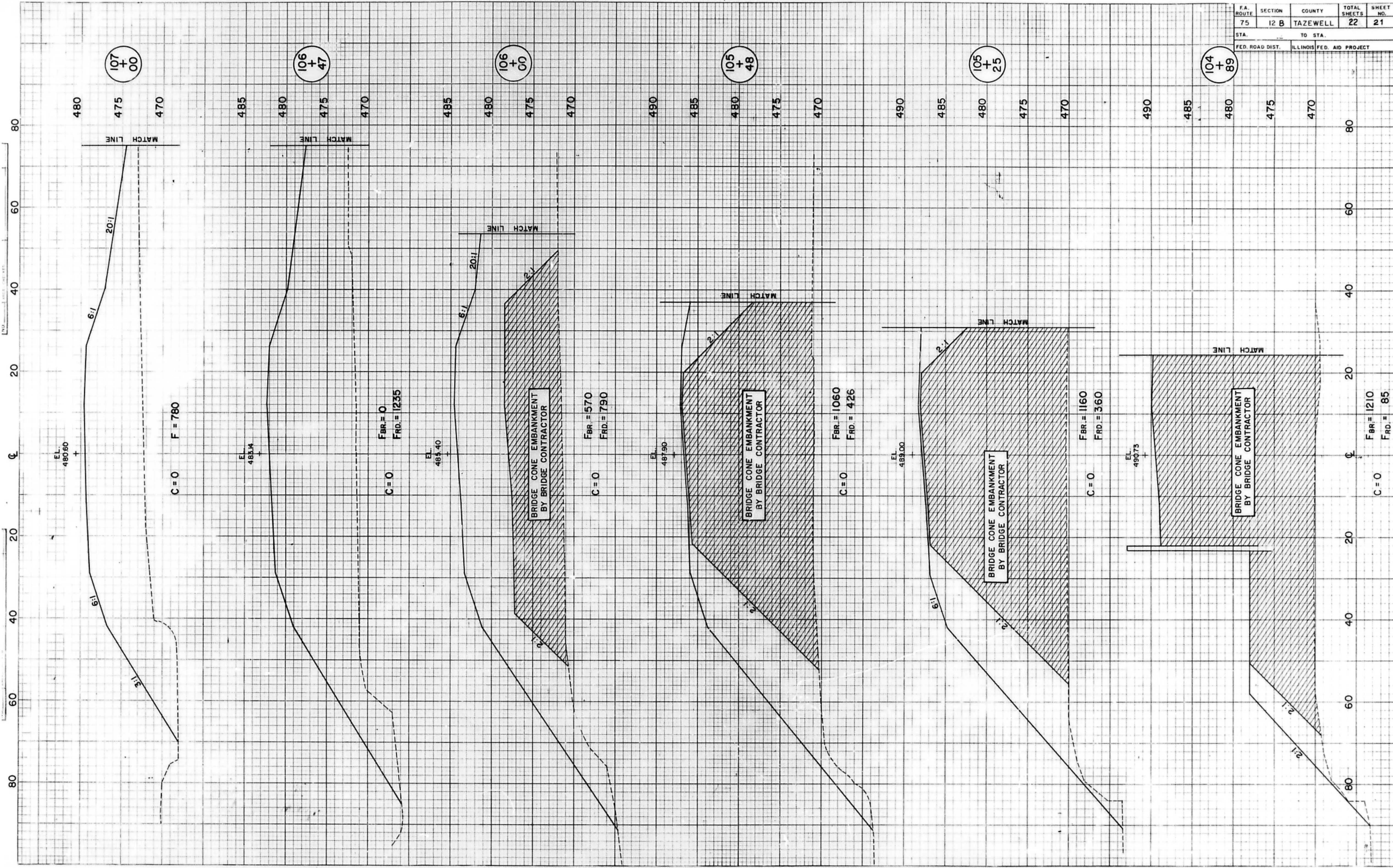
THE ENGINEERS COLLABORATIVE
 CHICAGO ILLINOIS

SHEET
 19 OF 19

F.A. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	12 B	TAZEWELL	22	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

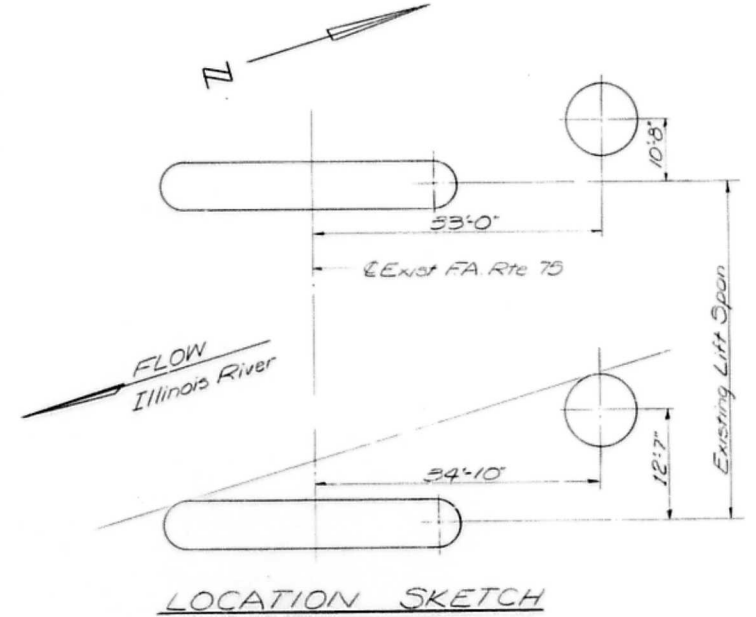
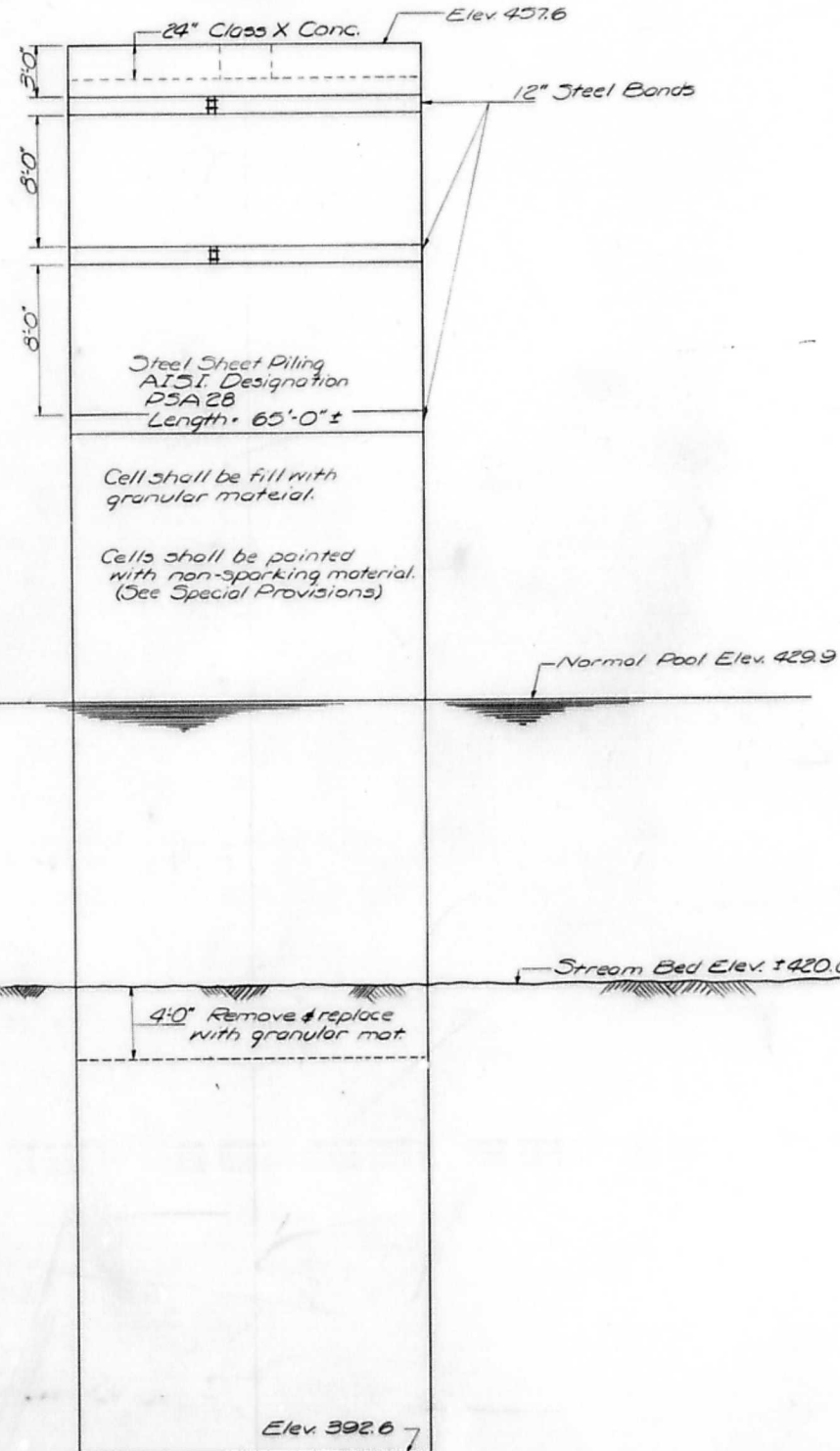
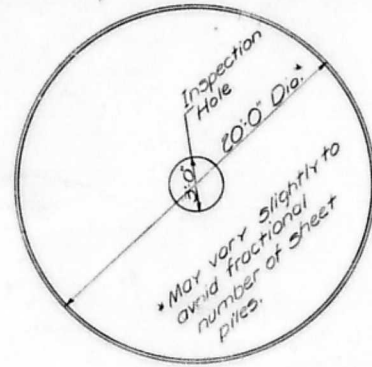


F.A. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	12 B	TAZEWELL	22	21
STA. _____		TO STA. _____		
FED. ROAD DIST.	ILLINOIS	FED. AID PROJECT		



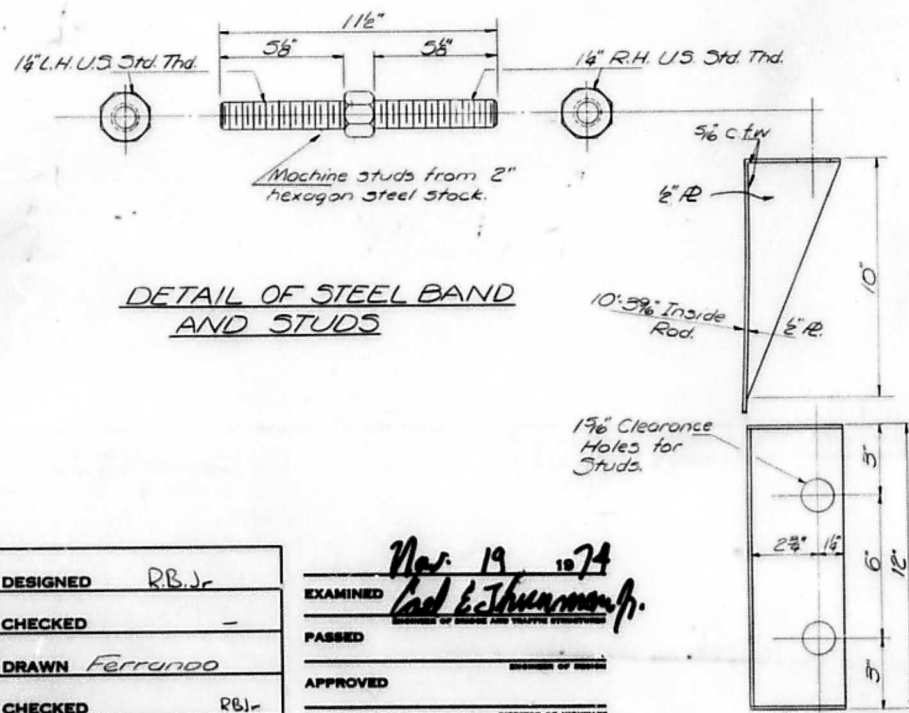
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 24 24 SHEETS
P.A. 75	12B	Peoria-Tazewell	22	22	
FED. ROAD DIST. NO. 7		ILLINOIS		PPP AID PROJECT	



BILL OF MATERIALS

Item	Unit	Quantity
Pier Protection Cell	Each	2



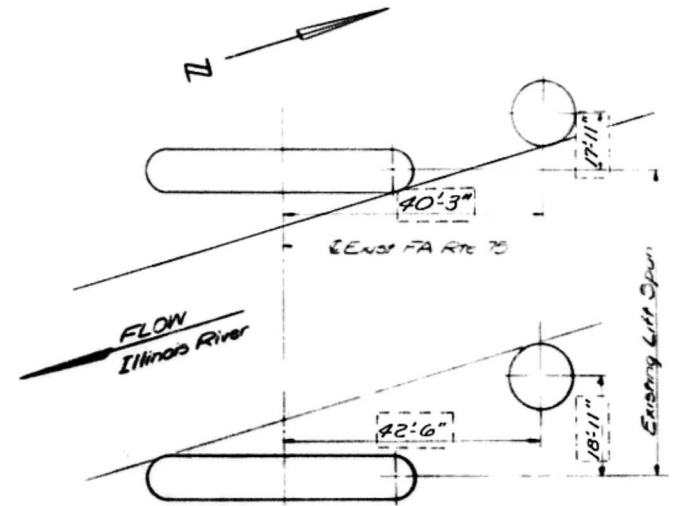
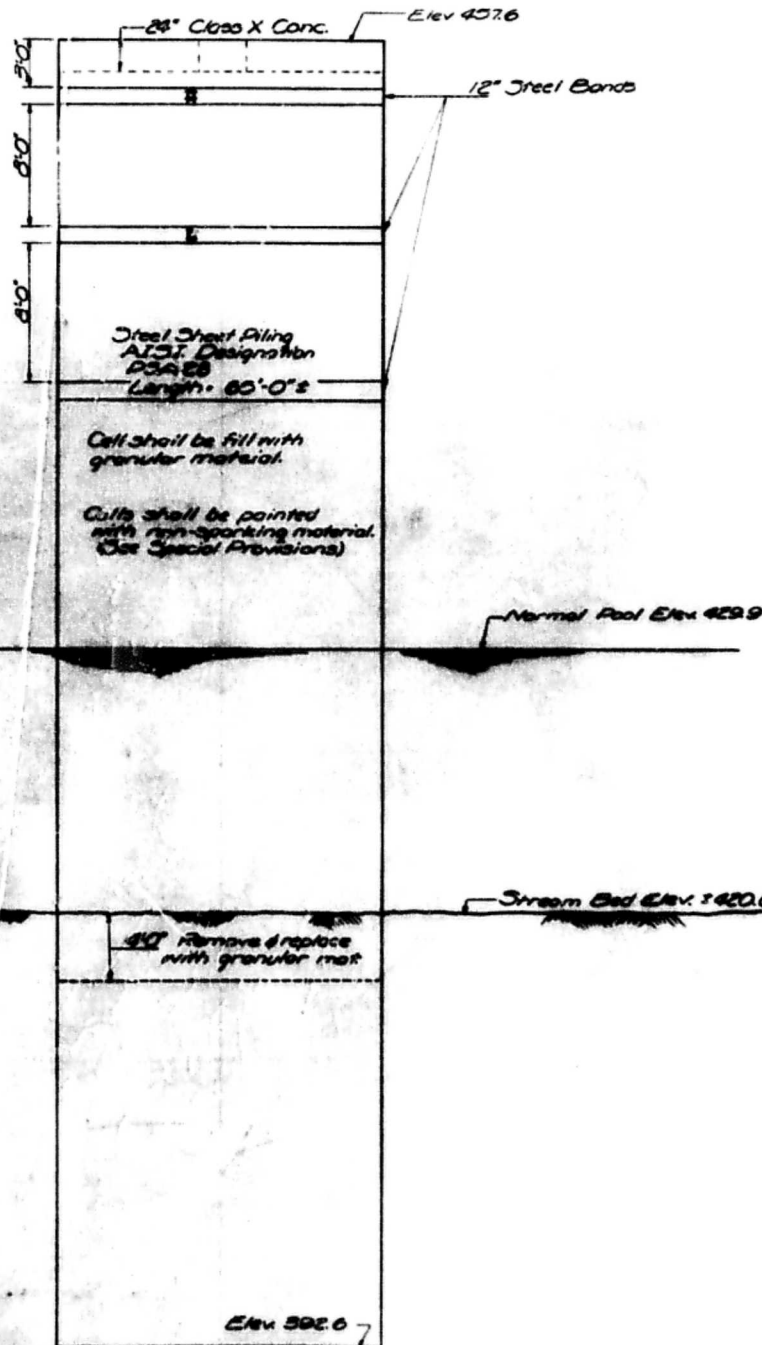
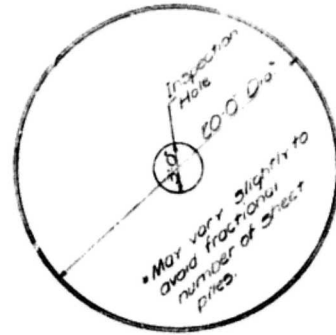
DESIGNED	R.B.Jr
CHECKED	-
DRAWN	Ferrando
CHECKED	R.B.Jr

Nov. 19 1974
Examined
Passed
Approved
DIRECTOR OF HIGHWAYS

PIER PROTECTION CELLS
F.A. RTE. 75 SEC. 12B
PEORIA and TAZEWELL
COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

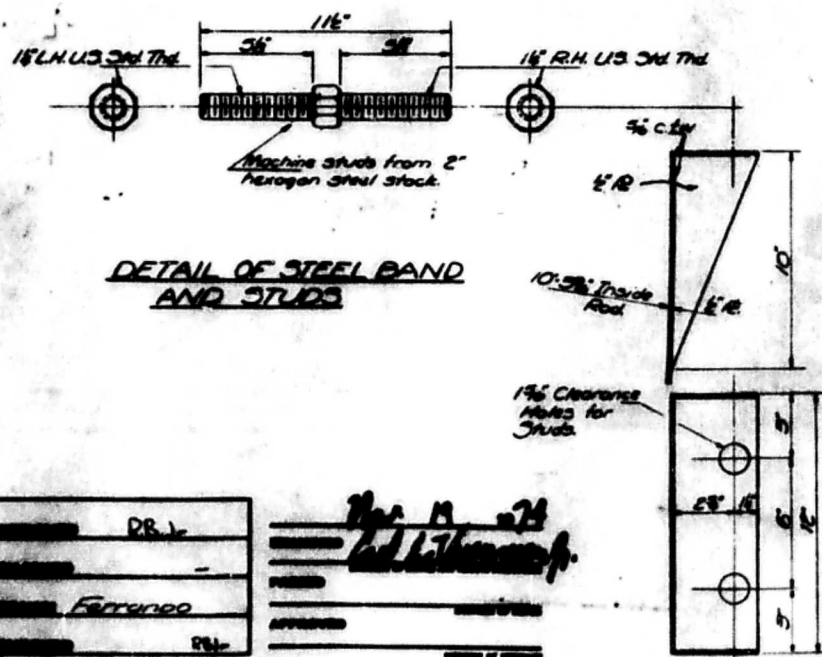
ROUTE NO.	DISTRICT	COUNTY	SPECIAL PROJECT	SHEET NO.	SHEET NO.
75	C B	Peoria-Tazewell	22	22A	
SHEET NO.		SHEET NO.		SHEET NO.	



LOCATION SKETCH

BILL OF MATERIALS

Item	Unit	Quantity
Pier Protection Cell	Each	2



DETAIL OF STEEL BAND AND STUDS

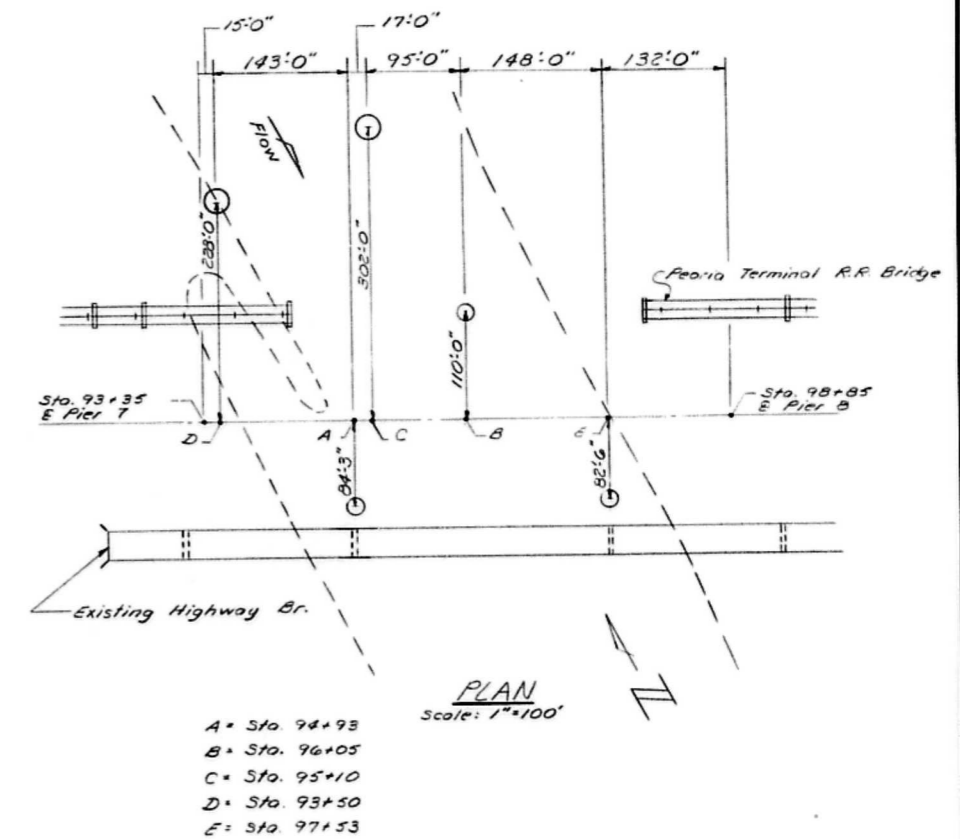
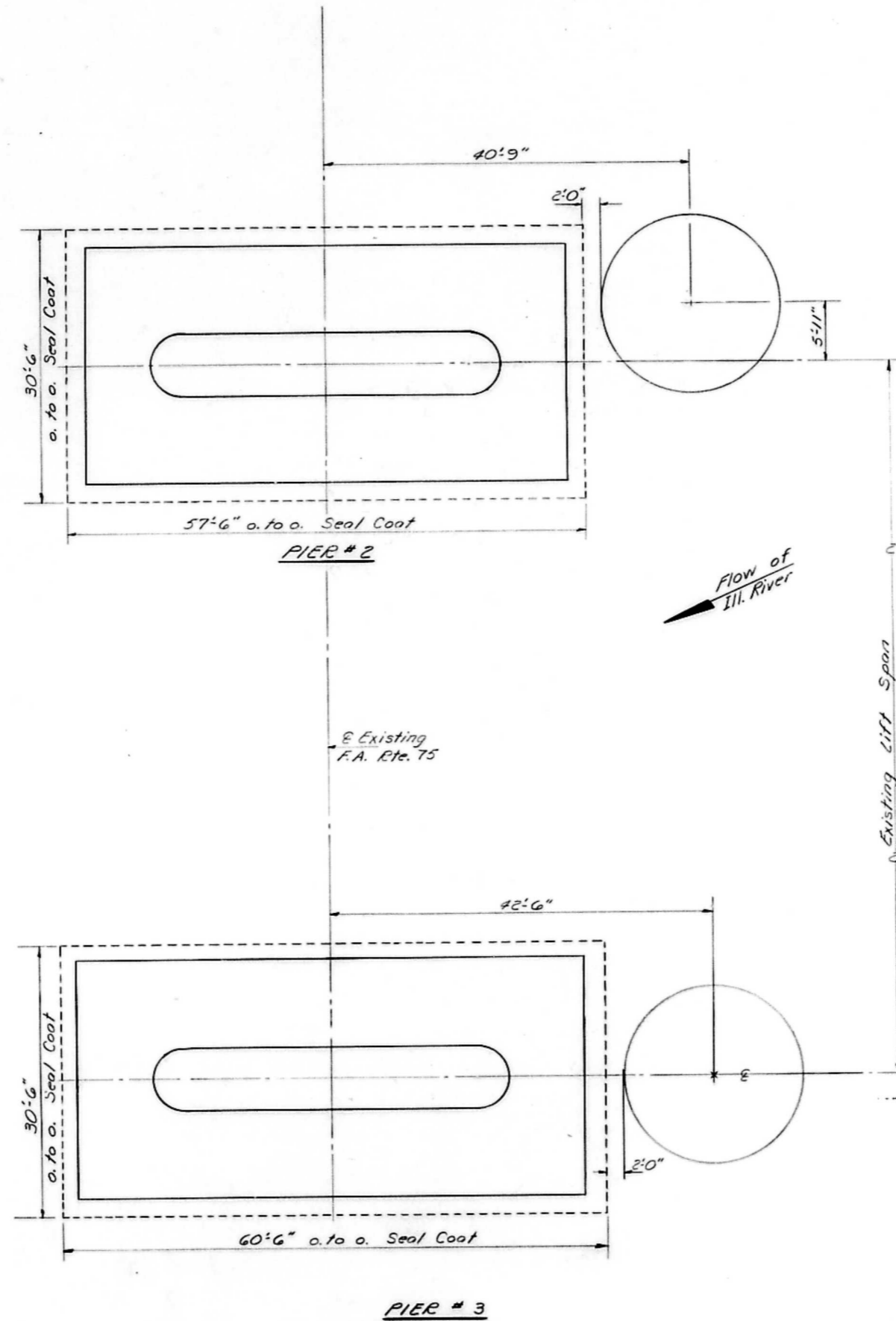
DESIGNED BY	DBL
CHECKED BY	
APPROVED BY	
DATE	Nov 13 1974
PROJECT	Ed. Johnson
APPROVED	
DATE	

PIER PROTECTION CELLS
FA RITE 75 SEC. 12B
PEORIA and TAZEWELL
COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	PROJECT	TOTAL SHEETS	SHEET NO.
S.S.L. R.A. 75	12B	Peoria & Tazewell	22	22B
P.O. ROAD DIST. NO. 7		BLANK	P.O. NO. PROJECT	

SHEET NO.
SHEETS



Scale = 1/8" per foot

DESIGNED	
CHECKED	
DRAWN	D. Derringer
CHECKED	

EXAMINED	
PASSED	
APPROVED	

PIER PROTECTION CELLS
F.A. RTE. 75 SEC. 12B
PEORIA & TAZEWELL COUNTIES