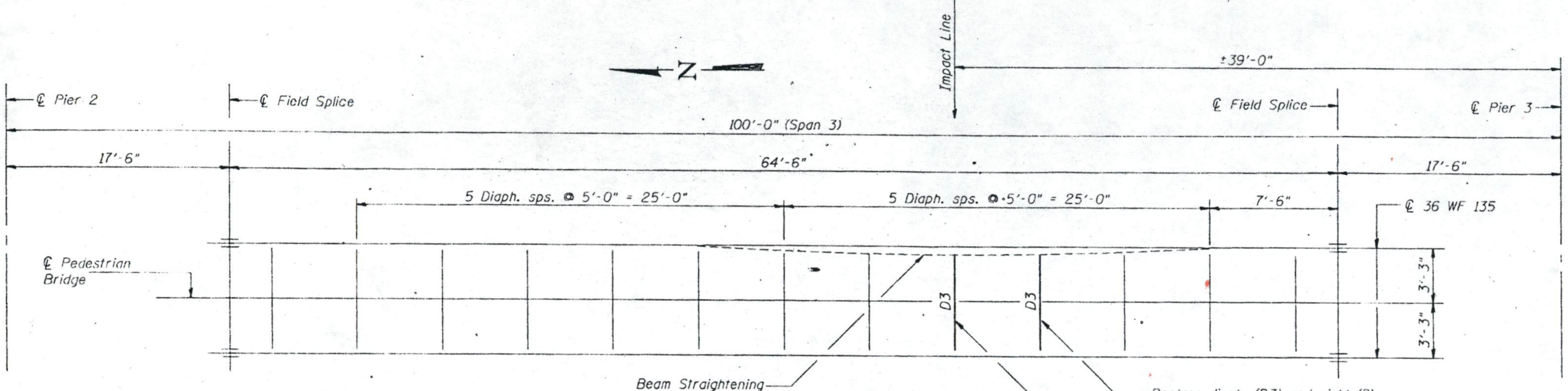
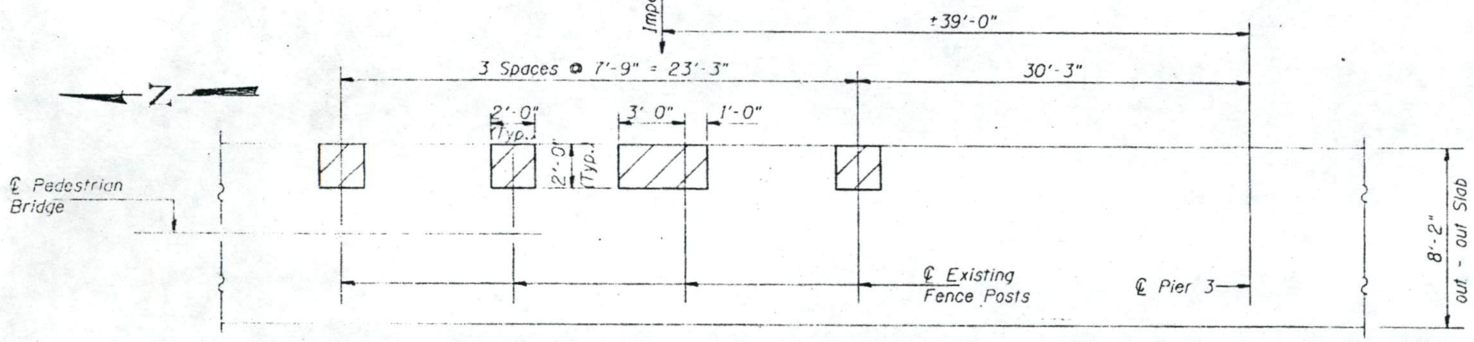
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.L. F.A.				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
6 SHEETS

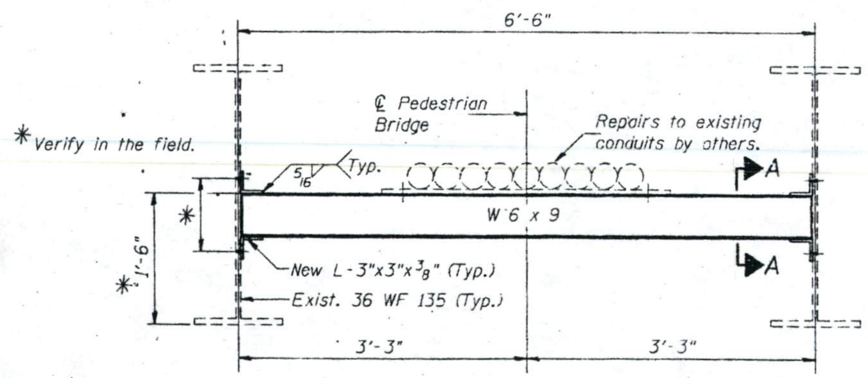


PARTIAL FRAMING PLAN



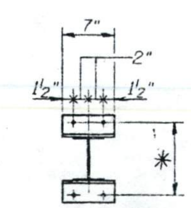
PARTIAL FLOOR PLAN

Note : Hatched areas indicate concrete sections to be removed. Perimeters of concrete removal areas shall be cut ¼" prior to removal. Reinforcement shall be cut only if required for fitting fence post connections. Cut reinforcement shall be spliced as directed by the Engineer. Cost shall be incidental to "Class X Concrete".



NEW DIAPHRAGM D3 (W 6 x 9)

No. Req'd. : (Two) 2



SEC. A-A

GENERAL NOTES

All new structural steel shall conform to AASHTO Classification M-183.

The beam straightening as described on the plans shall be performed by mechanical means only. The use of heat will not be allowed to facilitate the beam straightening process. See Special Provisions.

If the method of beam straightening differs from that shown on the plans, it shall be approved by the Engineer prior to ordering materials and installation.

All materials used in the straightening of the beam shall be included in the pay item, "Beam Straightening".

Grind existing nicks, gouges and shallow cracks in the damaged beams as shown by the detail on Sheet 2. Ground surfaces shall be inspected for cracks using liquid dye penetrant prior to initiating any beam straightening operations. Cost is incidental to "Beam Straightening". Any cracks that cannot be removed by grinding approximately ¼" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition.

After the east beam has been straightened, the Engineer in the field shall check to see that the top flanges of both the straightened east beam and the west beam are tight against the slab. If not, the Contractor shall inject epoxy between the existing concrete deck and the top flanges of the beams. Cost to be incidental to "Furn. & Erect. Structural Steel". See Special Provisions.

Removal of all damaged members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be considered incidental to the contract.

The first two coats of the lead and chromate free alkyd paint system shall be used for shop and field painting of the new structural steel.
Structural steel shall only be cleaned and painted as required by the Special Provision, "Cleaning and Painting New Steel and Adjacent Areas of Existing Steel Structures".

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Traffic control shall be determined by the District.

BILL OF MATERIALS

Item	Unit	Total
Concrete Removal	Cu. Yds.	0.4
Class X Concrete	Cu. Yds.	0.4
Furn. and Erect. Structural Steel	Lbs.	160
Beam Straightening	L.S.	1
Traffic Control	L.S.	1

DESIGNED	Christopher H. Malungs
CHECKED	BRT
DRAWN	r.b. carbonell
CHECKED	CHM BRT

December 18, 1991
EXAMINED Todd E. Ahren
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED
DIRECTOR OF HIGHWAYS

BEAM STRAIGHTENING
Georgetown Rd. Pedestrian Bridge over I-74

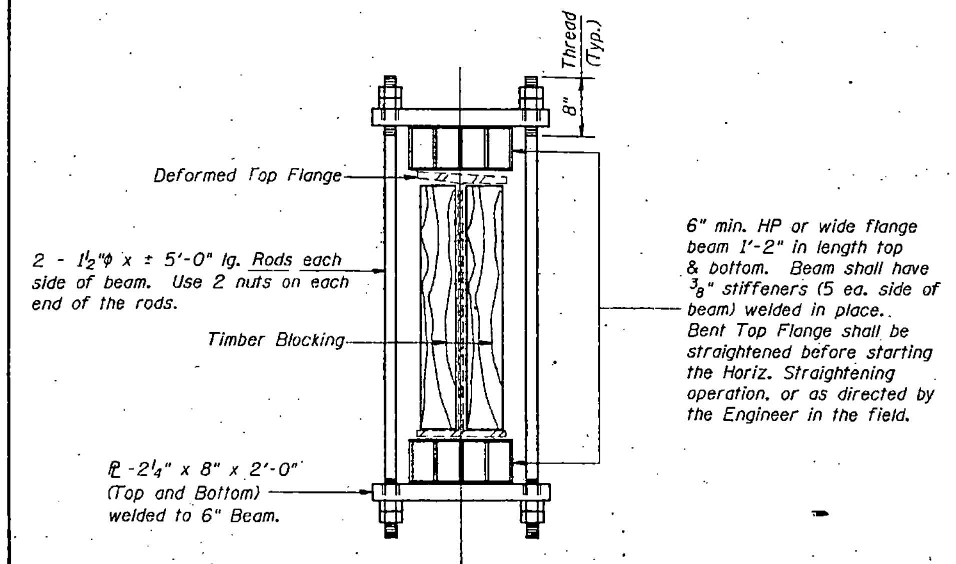
F.A.I. RT. 74 SEC. 92-11HB-6
VERMILION COUNTY
STA. 1935 + 60
S.N. 092-0150

092-0150

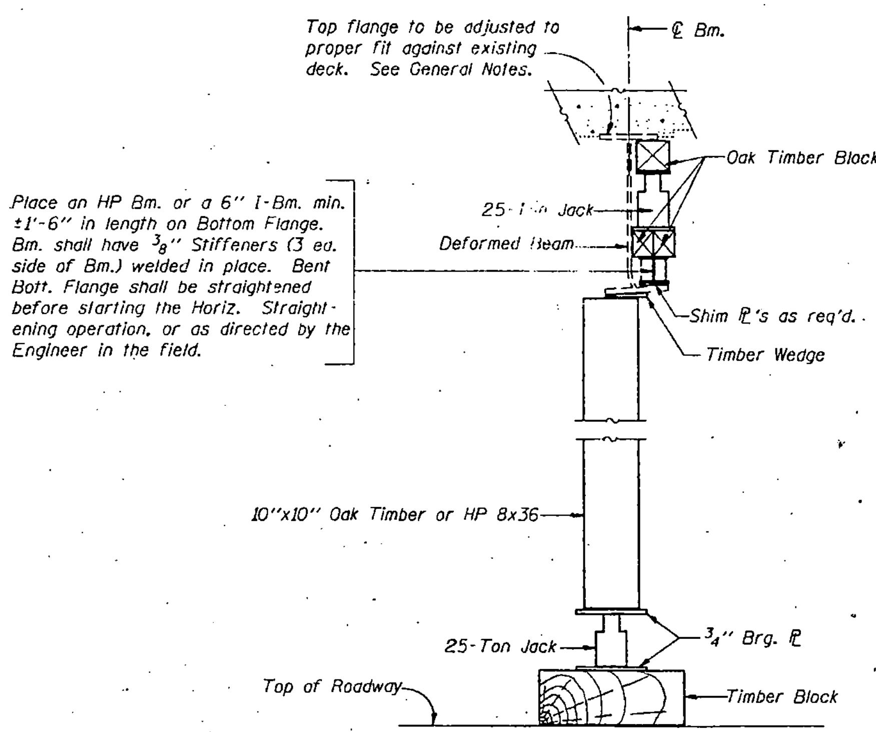
092-0150

Reel DL2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

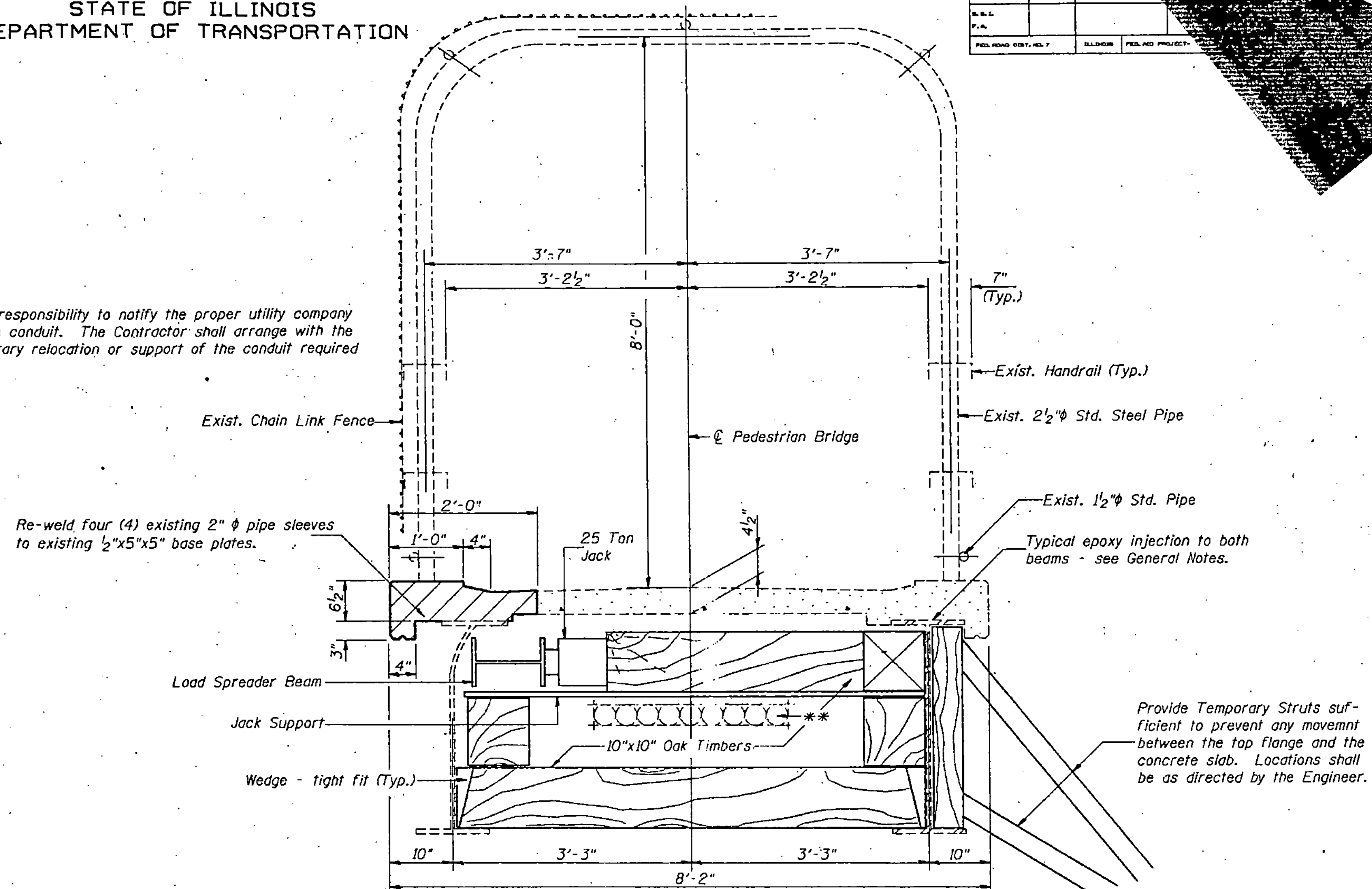


SUGGESTED DETAIL FOR
VERTICAL STRAIGHTENING OF TOP FLANGE



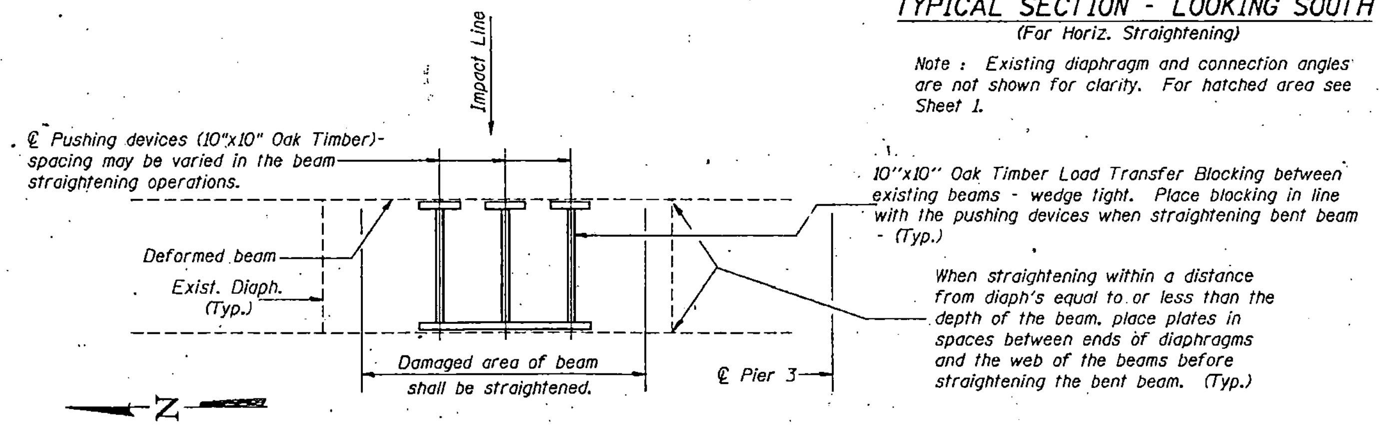
ELEVATION VIEW
(For Vertical Straightening of Bott. Flange)

** It shall be the District's responsibility to notify the proper utility company to perform repairs on the conduit. The Contractor shall arrange with the utility company any temporary relocation or support of the conduit required to facilitate the repairs.



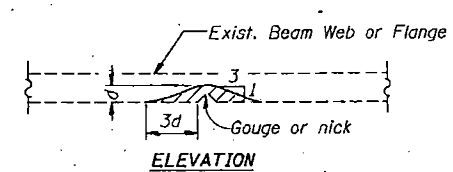
TYPICAL SECTION - LOOKING SOUTH
(For Horiz. Straightening)

Note : Existing diaphragm and connection angles are not shown for clarity. For hatched area see Sheet 1.



(SPAN 3)
PARTIAL FRAMING PLAN
SUGGESTED BEAM STRAIGHTENING METHOD
(See Sheet 1 for locations.)

All materials and items used in the straightening of bent beam, including all costs associated with painting, shall be incidental to "Beam Straightening". For details see this sheet. Pushing force shall be maintained on all load transfer blocking during beam straightening.



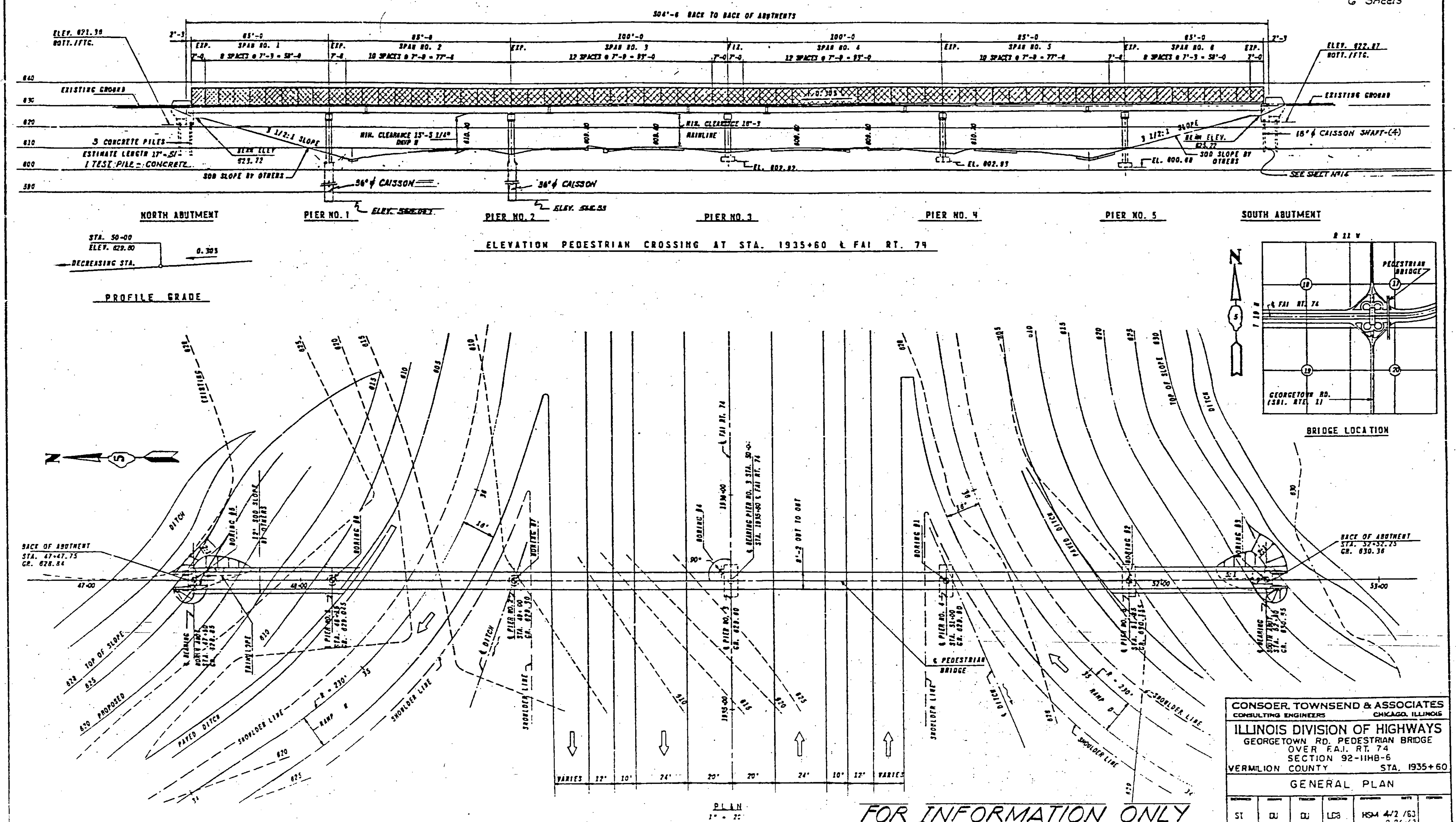
GRINDING DETAIL

DESIGNED	CHM
CHECKED	BRT
DRAWN	r.b. carbonell
CHECKED	CHM BRT

December 18, 1991
EXAMINED Todd E. Ahrens — ENGINEER OF STRUCTURAL SERVICES
PASSED — ENGINEER OF BRIDGES AND STRUCTURES
APPROVED — DIRECTOR OF HIGHWAYS

F.A.I. RT. 74 SEC. 92-11HB-6
VERMILION COUNTY
STA. 1935 + 60
S.N. 092-0150

Sheet No. 3
6 Sheets



CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS — CHICAGO, ILLINOIS

ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
OVER F.A.I. RT. 74
SECTION 92-11HB-6
VERMILION COUNTY — STA. 1935+60

GENERAL PLAN

ST	DU	DU	LCG	HSM 4/2/63 2-26-63	

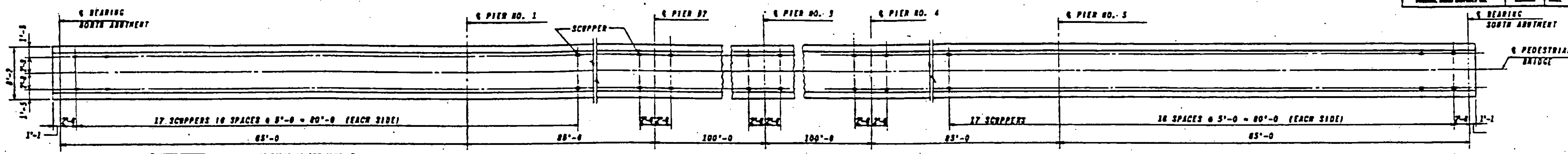
FOR INFORMATION ONLY

Revisions 7-10-63 - Remove footings from piers #1 and #2 and replace with caisson. Remove piles from south abut. and replace with caisson. Move test pile from south abut. to north abut.

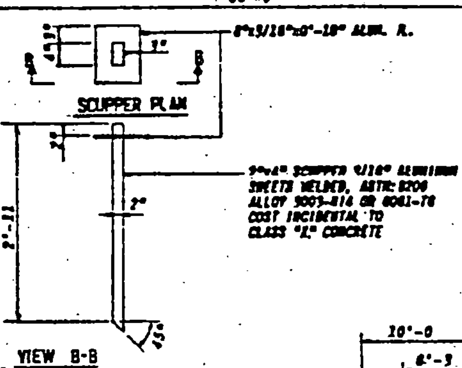
(092-0150)

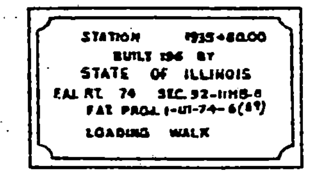
Sheet No. 4
6 Sheets

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-6	VERMILION		

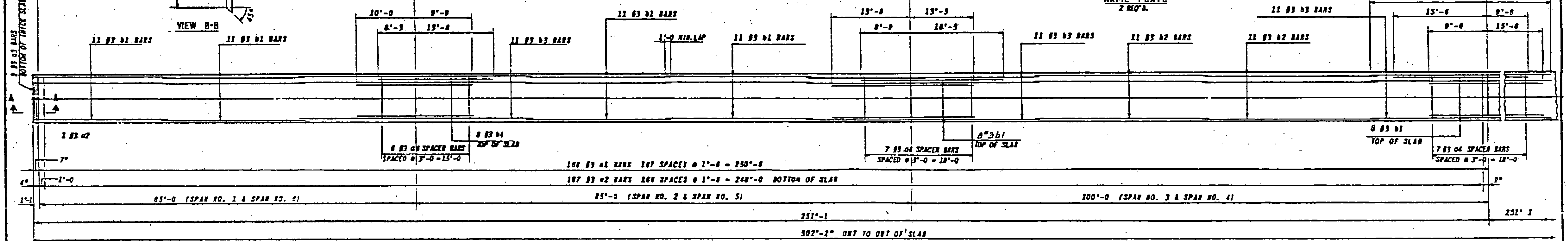


FLOOR PLAN AND SCUPPER LAYOUT

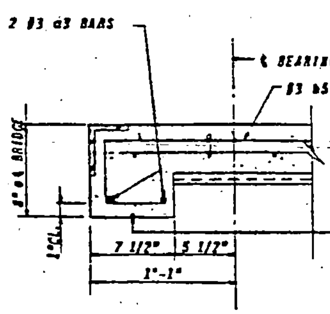




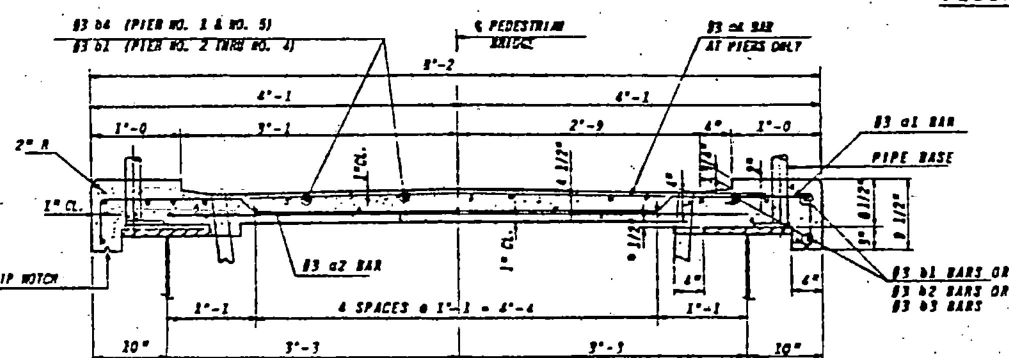
NAME PLATE
2 REQ'D.



FLOOR PLAN

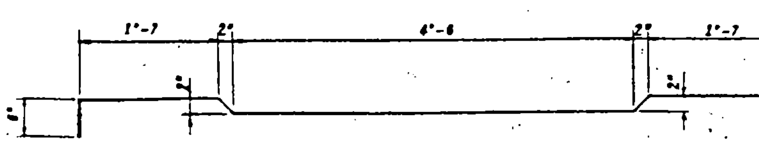


SECTION A-A



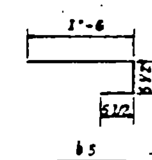
TYPICAL SLAB - SECTION

* AT SUPPORTS



BENDING DIAGRAM #3 a1 BAR
ALL DIMENSIONS ARE OUT TO OUT OF BAR

SUPERSTRUCTURE BAR SCHEDULE					
BAR	NO.	SIZE	LENGTH	SPACING	SHAPE
a 1	335	3	9'-1	1'-6	
a 2	336	3	8'-6	1'-6	
a 3	4	3	7'-9	AS SHOWN	
a 4	33	3	7'-0	3'-0	
b 1	112	3	25'-0	AS SHOWN	
b 2	44	3	30'-0	AS SHOWN	
b 3	55	3	40'-0	AS SHOWN	
b 4	16	3	19'-9	AS SHOWN	
b 5	18	3	2'-5	1'-0	



b5

DECK SLAB QUANTITIES	
CLASS X CONCRETE	66.6 CU. YDS.
REINFORCEMENT BARS	4580. LBS.

FOR INFORMATION ONLY

CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS CHICAGO, ILLINOIS

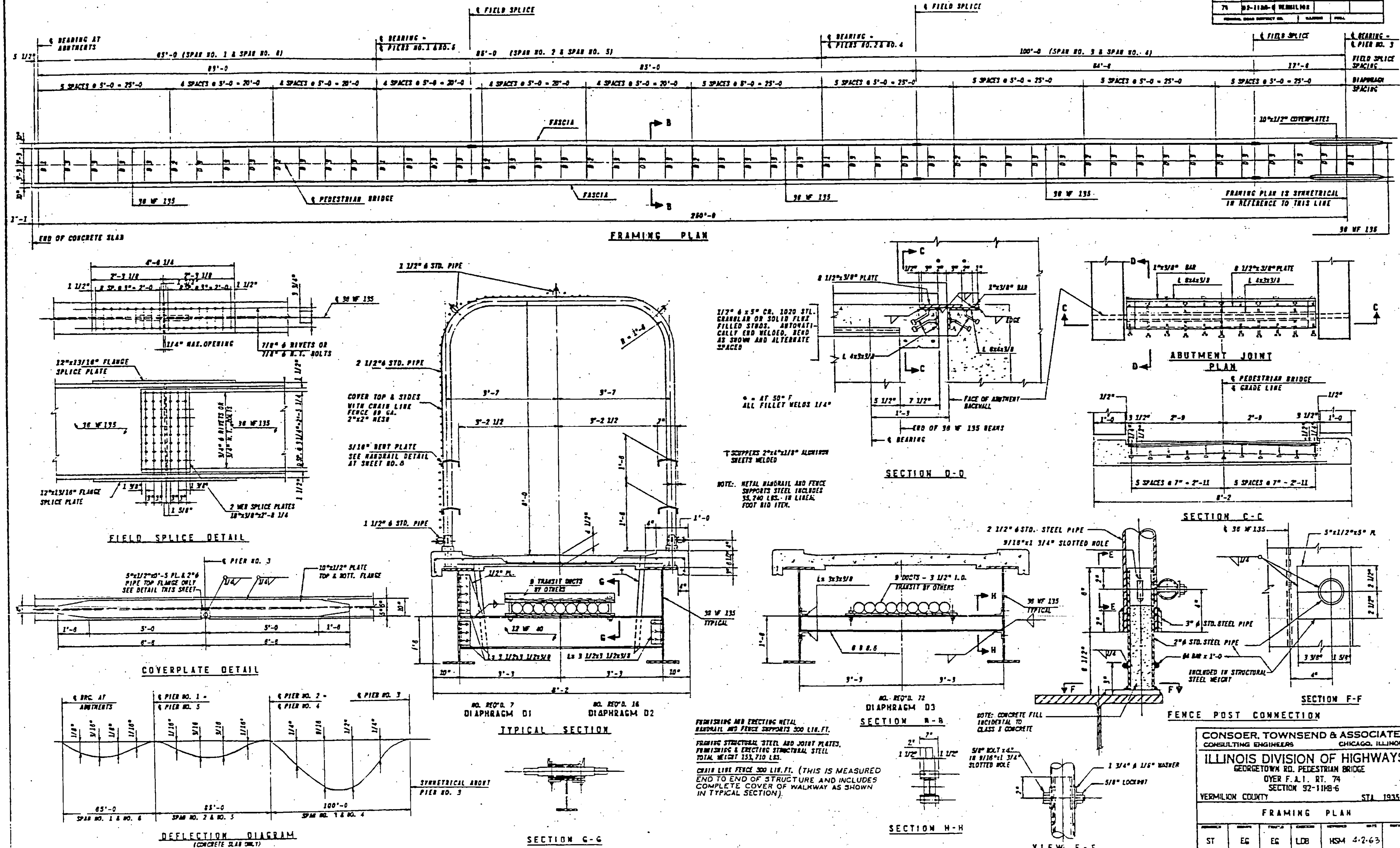
ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
OVER F.A.I. RT. 74
SECTION 92-11HB-6
VERMILION COUNTY STA. 1935+60

DECK SLAB

ST	DU	DU	LCS	HSM 4-2-63	

(092 - 0150)

Sheet No. 5
6 Sheets



FURNISHING AND ERECTING METAL HANDRAIL AND FENCE SUPPORTS 300 LIN. FT.

FURNISHING STRUCTURAL STEEL AND JOINT PLATES. FURNISHING & ERECTING STRUCTURAL STEEL TOTAL WEIGHT 153,710 LBS.

CHAIN LINK FENCE 300 LIN. FT. (THIS IS MEASURED END TO END OF STRUCTURE AND INCLUDES COMPLETE COVER OF WALKWAY AS SHOWN IN TYPICAL SECTION).

CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS CHICAGO, ILLINOIS

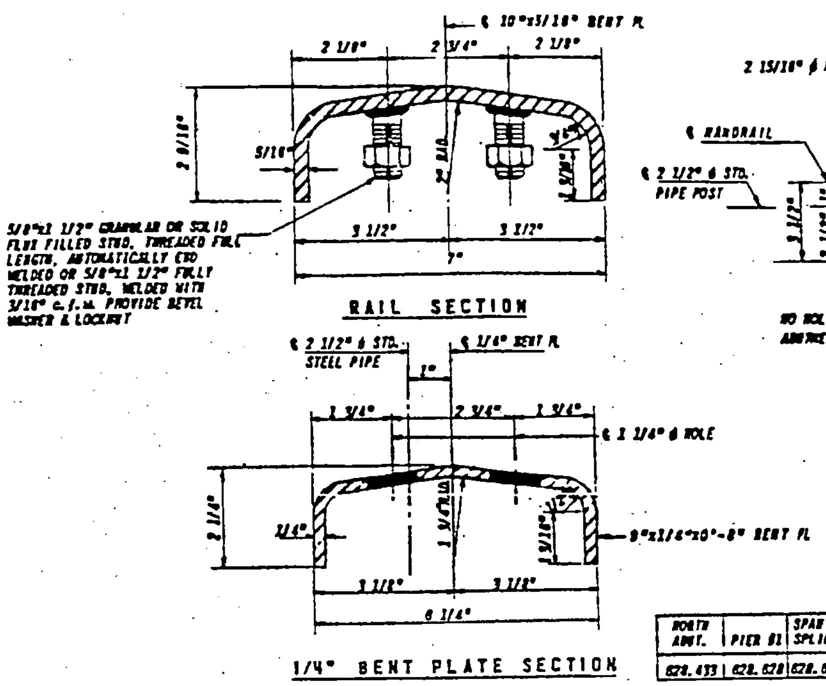
ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
OVER F.A.I. RT. 74
SECTION 92-1IHB-6
VERMILION COUNTY STA. 1935+60

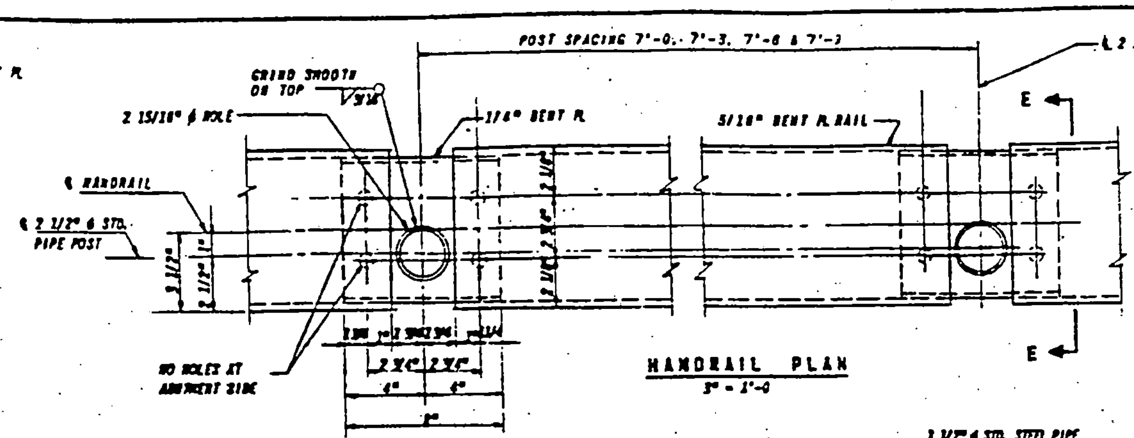
FRAMING PLAN

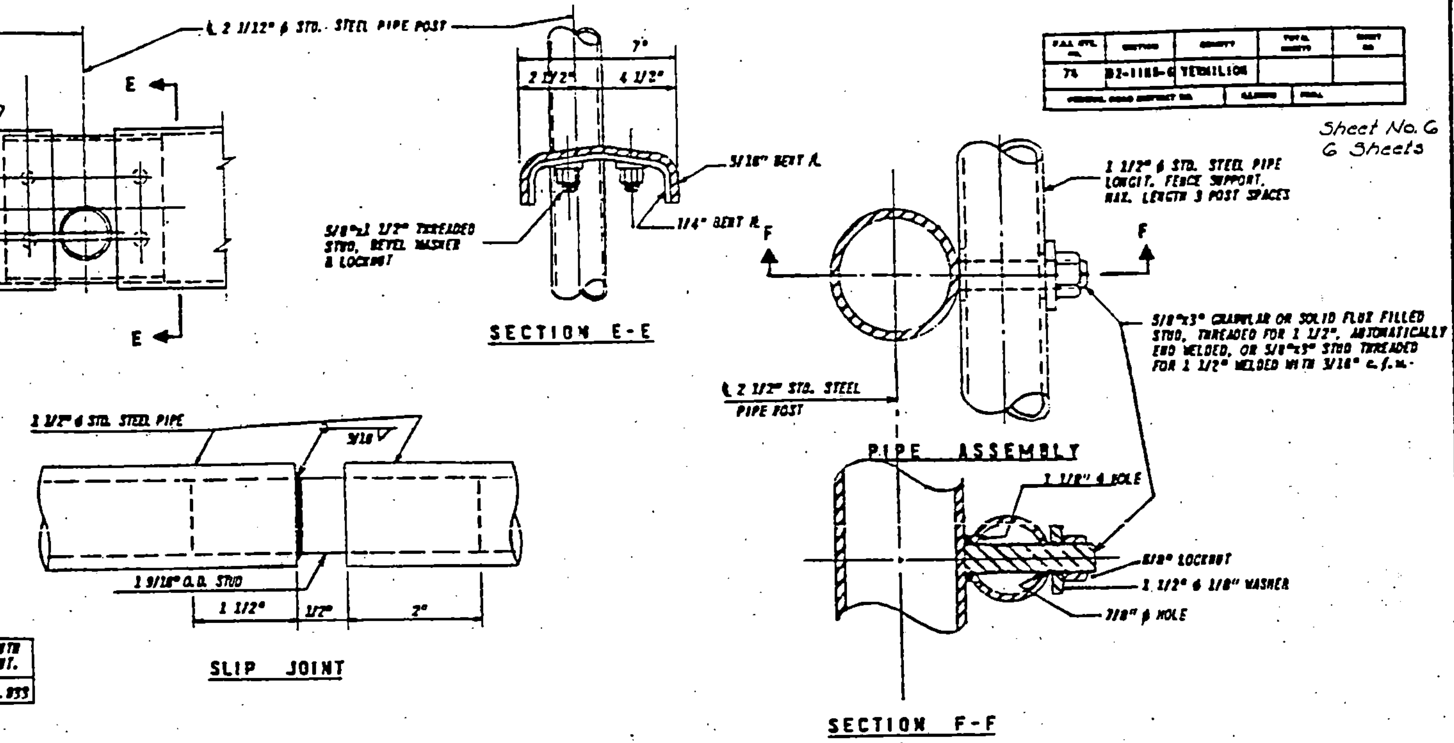
ST	EG	EG	LDB	HSM 4-2-63	

FOR INFORMATION ONLY

(092-0150)





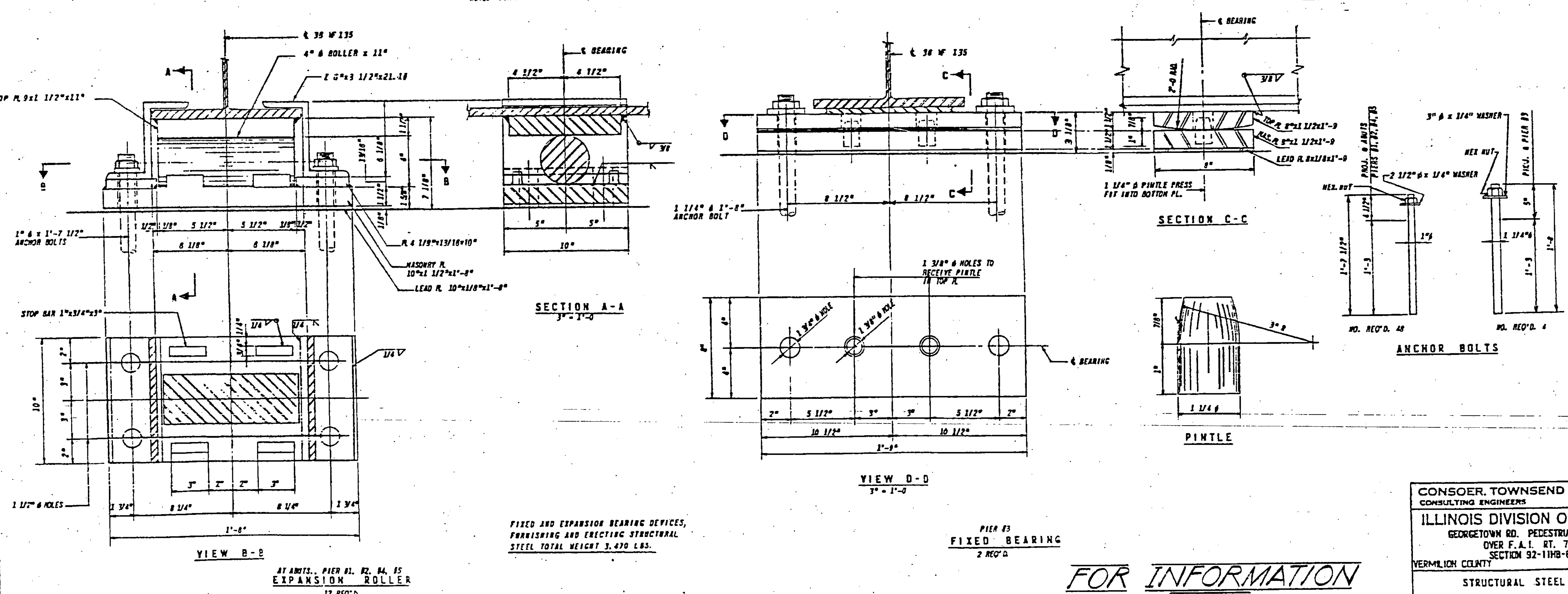


Sheet No. 6
6 Sheets

ELEVATIONS TOP OF STEEL BEAMS (TOP OF FLANGE UNDER COVER PLATES)

NORTH ABUT.	PIER #1	SPAN 2 SPLICE	PIER #2	SPAN 3 N SPLICE	SPAN 3 S SPLICE	PIER #3	SPAN 4 N SPLICE	SPAN 4 S SPLICE	PIER #4	SPAN 5 SPLICE	PIER #5	SOUTH ABUT.
628.433	628.628	628.682	628.885	628.937	629.130	629.183	629.238	629.420	629.483	629.684	629.738	629.933

NOTE: FOR FABRICATION USE ONLY, DOES NOT INCLUDE DEFLECTION.



FIXED AND EXPANSION BEARING DEVICES, FURNISHING AND ERECTING STRUCTURAL STEEL TOTAL WEIGHT 3,470 LBS.

FOR INFORMATION ONLY

CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS CHICAGO, ILLINOIS

ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
DYER F.A.I. RT. 74
SECTION 92-11HB-6
VERMILION COUNTY STA. 1935+60

STRUCTURAL STEEL DETAILS

ST	DU	DU	LDB	HSM	2-26-63

(032-0150)

92-11HB-6 Ve.
PEDESTRIAN BRIDGE

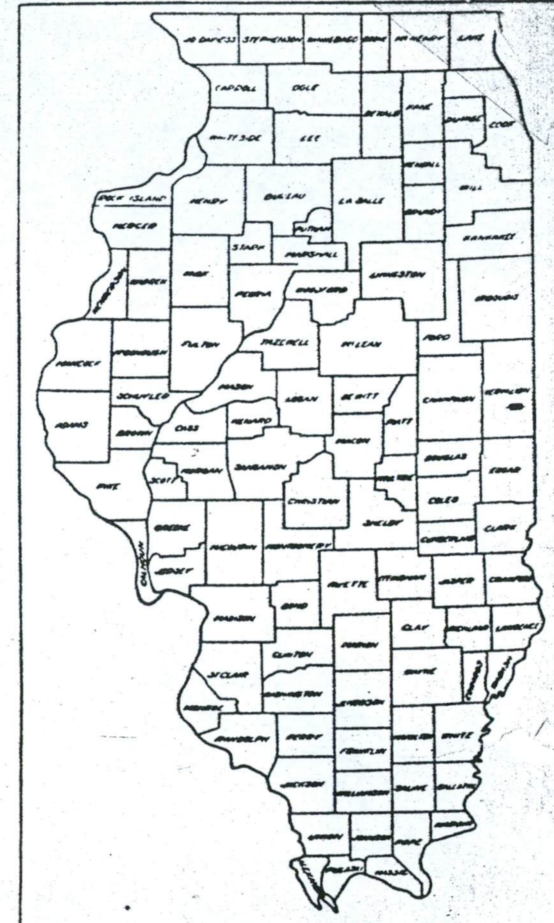
FEDERAL AID ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
74	92-11 HB-6	VERMILION	17	1
FED ROAD DIST NO 7	ILLINOIS	PROJECT I-UI-74-6(69)216		

FOR INDEX OF SHEETS - SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES - SEE SHEET NO. 2

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

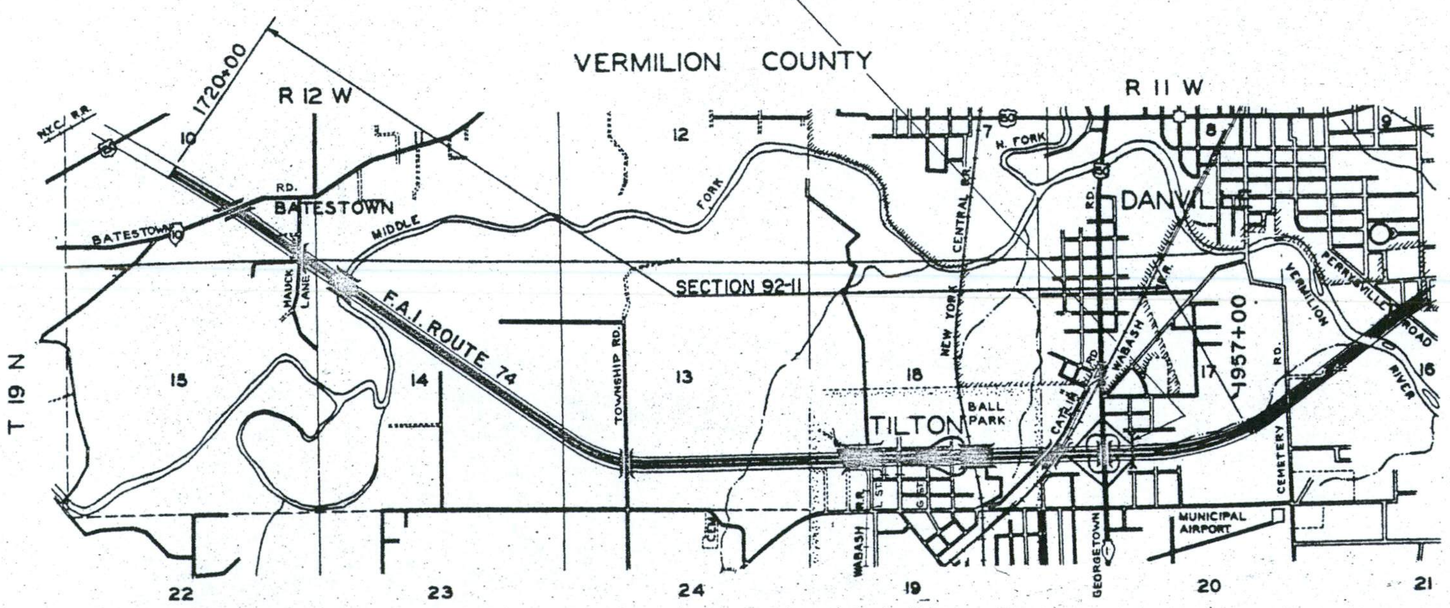
SCALES
- PLAN 1 INCH 100 FT
- PROFILE HOR 1 INCH 100 FT
- PROFILE VERT 1 INCH 10 FT
- CROSS SECTIONS 1 INCH 5 FT

F.A.I. ROUTE 74, SECTION 92-11HB-6, VERMILION COUNTY
PROJECT I-UI-74-6(69)216



LOCATION OF SECTION INDICATED THUS:—

SECTION 92-11HB-6 INCLUDES A 6 SPAN STEEL BEAM PEDESTRIAN BRIDGE OVER FAI RT. 74. SPANS 65'. 85'. 100'. 100'. 85'. 65'. WITH 6'-2" REINFORCED CONCRETE WALK ENCLOSED IN WIRE FABRIC FENCE. WITH REINFORCED CONCRETE PIERS AND ABUTMENTS AT STATION 1935+60



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
W.E. Baumann 7/16/63
Engineer of Bridge & Traffic Structures

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

SUBMITTED June 26, 1963
J. J. Cychol DISTRICT ENGINEER
EXAMINED July 19 1963
A. Van Ausdall
ENGINEER OF ROAD PLANS AND CONTRACTS
PASSED July 19 1963
ENGINEER OF DESIGN
APPROVED July 19 1963
CHIEF HIGHWAY ENGINEER
APPROVED July 19 1963
DIRECTOR

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED

DIVISION ENGINEER	DATE

96

092-0150

PLANS PREPARED BY
CONSOER TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS
360 EAST GRAND AVE.
CHICAGO, ILL.

NET LENGTH SECTION = 0.00 FEET = 0.000 MILES
NET LENGTH PROJECT = 0.00 FEET = 0.000 MILES

FAI ROUTE 74. SECTION 92-11HB-6 VERMILION COUNTY
Job No. 23247

REEL 5-37

F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-6	VERMILION	17	2
FEDERAL ROAD DISTRICT NO. 7	ILLINOIS	PROJ.		

LOCATION OF WORK F.A.I. 74 BRIDGE STA. 1935+60

CONSTRUCTION TYPE CODE Y009

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE

QUANTITY	UNIT	PAY ITEM	CODE NUMBER
15085	CU. YD.	EARTH EXCAVATION	011001
158.0	CU. YD.	CLASS X CONCRETE	052003
157.180	POUND	FURNISHING AND ERECTING STRUCTURAL STEEL	054001
36,220	POUND	REINFORCEMENT BARS	059001
51	LIN.FT.	DRIVING CONCRETE PILES	060043
51	LIN.FT.	FURNISHING CONCRETE PILES	060044
1	EACH	TEST PILE CONCRETE	060047
2	EACH	NAME PLATES	061001
500	LIN.FT.	CHAIN LINK FENCE	095001
500	LIN.FT.	FURNISHING AND ERECTING METAL HANDRAIL AND FENCE SUPPORTS	055018
421.3	CU.Ft.	CAISSON SHAFTS 18"ϕ	Z01249
565.6	CU.Ft.	CAISSON SHAFTS 36"ϕ	Z01225

INDEX OF SHEETS

TABLE OF MOMENTS AND REACTIONS

	MOMENTS IN FT - KIPS						REACTIONS IN KIPS			
	.4 SP.1	PIER 1	.5 SP.2	PIER 2	.5 SP.3	PIER 3	N.ABUT.	PIER 1	PIER 2	PIER 3
DL	+163	-299	+152	-408	+249	-496	13.6	45.4	52.2	57.8
LL	+89	-134	+109	-179	+144	-204	5.9	15.6	20.5	24.4
TOTAL	+252	-433	+261	-587	+393	-700	19.5	61.0	72.7	82.2

GENERAL NOTES

CLASS X CONCRETE SHALL BE USED THROUGHOUT.

COARSE AGGREGATE USED IN END POSTS SHALL BE ABSOLUTELY FREE OF CHERT, FLINT, LIMONITE, LIGNITE AND SOFT SANDSTONE.

SUPERSTRUCTURE SLAB SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 51.19 OF THE STANDARD SPECIFICATIONS.

ALL SURFACES OF THE EXPANSION GUARDS WHICH WILL BE EXPOSED AFTER CONSTRUCTION OF THE BRIDGE SHALL RECEIVE TWO SHOP COATS OF RED LEAD PAINT.

ALL ROLLERS, BEARING PLATES, MASONRY PLATES, PINTLES, ANCHOR BOLTS, BOLTS AND NUTS, LEAD PLATES, SHIM PLATES, AND ALL PARTS OF EXPANSION GUARDS AND DEVICES SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLE 51.13 AND ARTICLE 51.15 OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED FOR PAYMENT AS FURNISHING AND ERECTING STRUCTURAL STEEL.

ALL STRUCTURAL STEEL, EXCEPT AS OTHERWISE PROVIDED, SHALL RECEIVE ONE COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT. ALL PAINT TO BE FURNISHED AND APPLIED BY THE CONTRACTOR AND INCLUDED IN THE UNIT PRICE BID FOR "FURNISHING AND ERECTING STRUCTURAL STEEL". SEE ARTICLES 56.1 TO 56.5 OF THE STANDARD SPECIFICATIONS.

ALL RIVETS SHALL BE 3/4" ϕ IN 13/16" ϕ HOLES, EXCEPT IN BEAM SPLICES WHICH SHALL BE 7/8" ϕ IN 15/16" ϕ HOLES IN FLANGE SPLICE AND 3/4" ϕ IN 13/16" ϕ HOLES IN WEB SPLICE. ALL HOLES FOR SPLICES SHALL BE SUBPUNCHED 11/16" ϕ AND REAMED TO 15/16" ϕ FOR 7/8" RIVETS AND REAMED TO 13/16" ϕ FOR 3/4" RIVETS. GIRDERS SHALL BE ASSEMBLED IN PROPER POSITION AND LEFT ASSEMBLED FOR SHOP INSPECTION BY THE DIVISION OF HIGHWAYS.

ANCHOR BOLTS SHALL BE SET BEFORE RIVETING DIAPHRAGMS OVER PIERS AND ABUTMENTS.

TEST PILE SHALL BE DRIVEN IN PERMANENT LOCATION BEFORE DRIVING REMAINDER OF PILES. ONE PILE SHALL BE DRIVEN IN THE NORTH ABUTMENT.

DESIGN DATA

DESIGN SPECIFICATIONS: AASHO 1961 EDITION

DESIGN LOAD: SIDEWALK

DECK SLAB, PIERS, FOOTINGS AND ABUTMENTS:

STRUCTURAL STEEL ASTM A36	f_s	=	20,000 psi
REINFORCING STEEL	f_s	=	20,000 psi
CONCRETE			
ULTIMATE COMPRESSION	$f'c$	=	3,500 psi
ALLOWABLE COMPRESSION (NO EARTH PRESSURE)	fc	=	1,400 psi
ALLOWABLE COMPRESSION (WITH EARTH PRESSURE)	fc	=	1,000 psi
MODULAR RATIO	n	=	10
HORIZONTAL EARTH PRESSURE = EQUIV. FLUID PRESSURE		=	40 pcf
CONCRETE PILE CAPACITY		=	25 TONS MAX.
PIER FOOTINGS MAX. SHEAR	V	=	75 psi
FOOTING PRESSURE - PIERS		=	4,670 LBS. PER SQ.FT.

CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS CHICAGO, ILLINOIS

ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
OVER F A I. RT 74
SECTION 92-11HB-6
VERMILION COUNTY STA. 1935+60

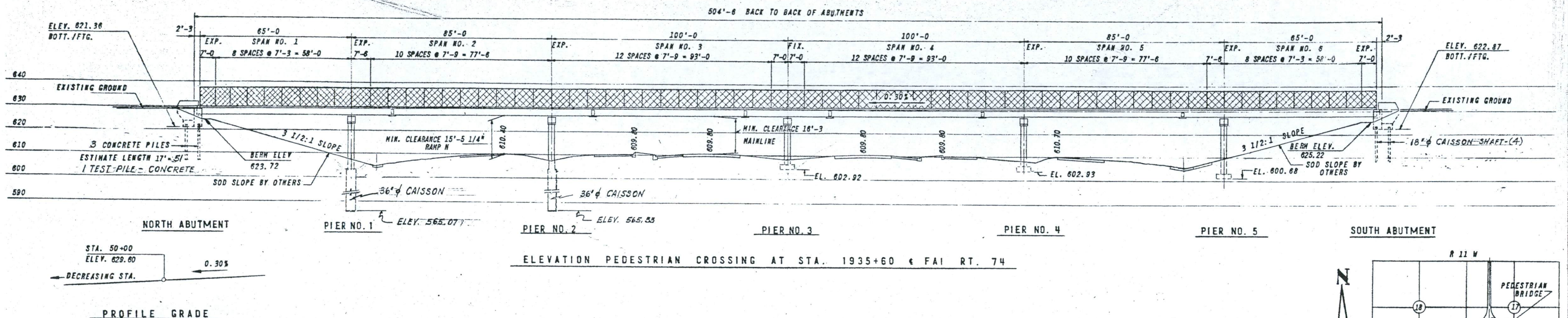
GENERAL NOTES & QUANTITIES

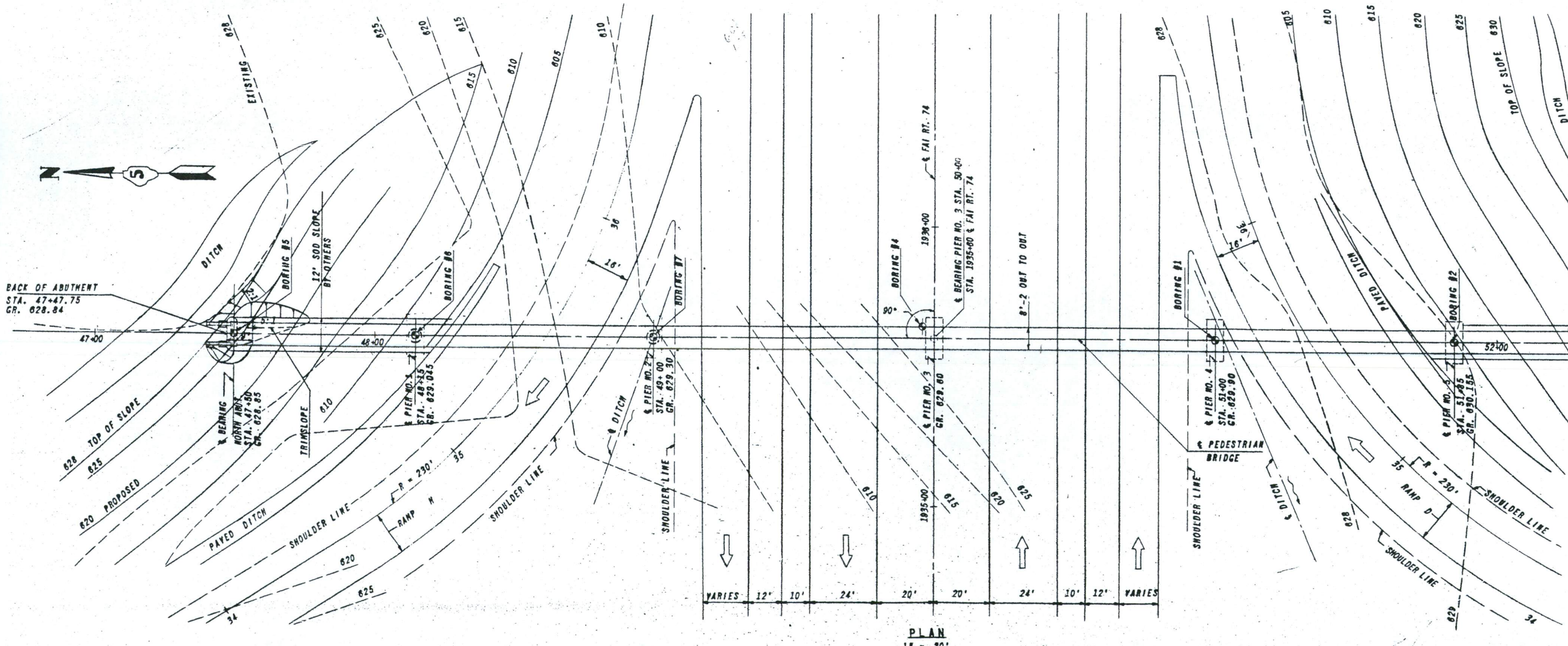
DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
			LDB	HSM	4-2-63	

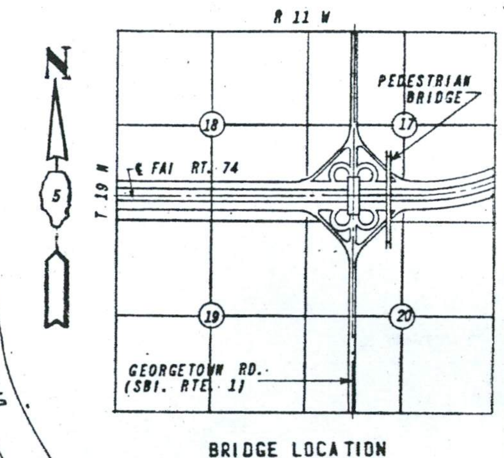
REVISIONS Added three sheets 12, 13, 14 changed sheets 12 & 13 to 15 & 16 — Class X Conc. 178.5 Cu.Yds. to 158.0 Cu.Yds. Driving Conc. Piles, 119 Lin.Ft. to 51 Lin.Ft. — Caisson Shaft - 18"ϕ 0.0 Cu.Ft. to 421.3 CU.Ft. Revision 7-15-63: Quantity of Reinforcement Bars changed from 29,060# to 36,220#. M.C.K.

11/63 — changed test pile location from S. Abut. to N. Abut. change quantities thusly: Reinf. Bars 19720 Lbs. to 29060 Lbs. — Furnishing Conc. Piles 119 Lin.Ft. to 51 Lin.Ft. — R.C. Caisson Shaft - 36"ϕ 0.0 Cu.Ft. to 565.6 Cu.Ft.

F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-6	VERMILION	17	5







Revisions: 7-10-63 - Remove footings from piers #1 and #2 and replace with caissons. Remove piles from south abut. and replace with caissons. Move test pile from south abut. to north abut.

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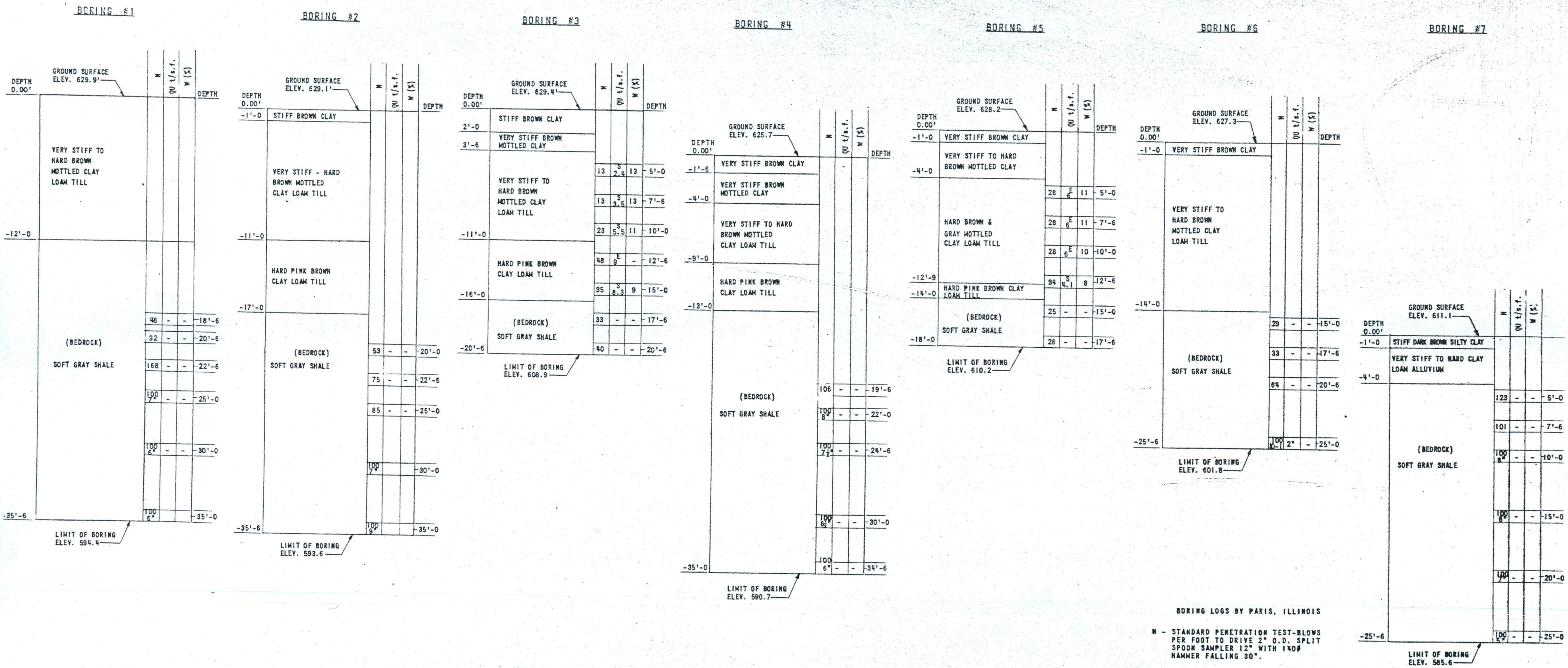
ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
OVER F.A.I. RT. 74
SECTION 92-11HB-6
VERMILION COUNTY STA. 1935+60

GENERAL PLAN

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE
ST	DU	DU	LDB	HSM	4/2/63 2-26-63

F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-6	VERMILION	17	6

FEDERAL ROAD DISTRICT NO. | ILLINOIS | PROJ.



BORING LOGS BY PARIS, ILLINOIS

N - STANDARD PENETRATION TEST-BLOWS PER FOOT TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140# HAMMER FALLING 30".

QU - UNCONFINED COMPRESSIVE STRENGTH - t/s.f.

W - WATER CONTENT - PERCENTAGE OF OVEN DRY WEIGHT - %.

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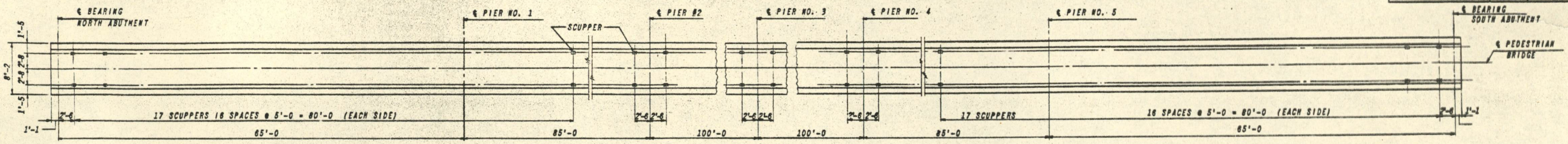
ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
OVER FAI RT. 74
SECTION 92-11HB-6
VERMILION COUNTY STA. 1935+60

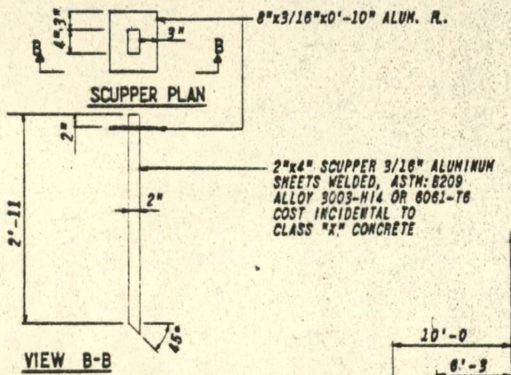
BORING LOGS

DESIGNED	DRAWN	TRACED	CHECKED	REVISIONS	DATE	REVISED
	EG		LDB	HSM	1/21/63	

F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-6	VERMILION	17	7
FEDERAL ROAD DISTRICT NO.		ILLINOIS	FED. PROJ.	

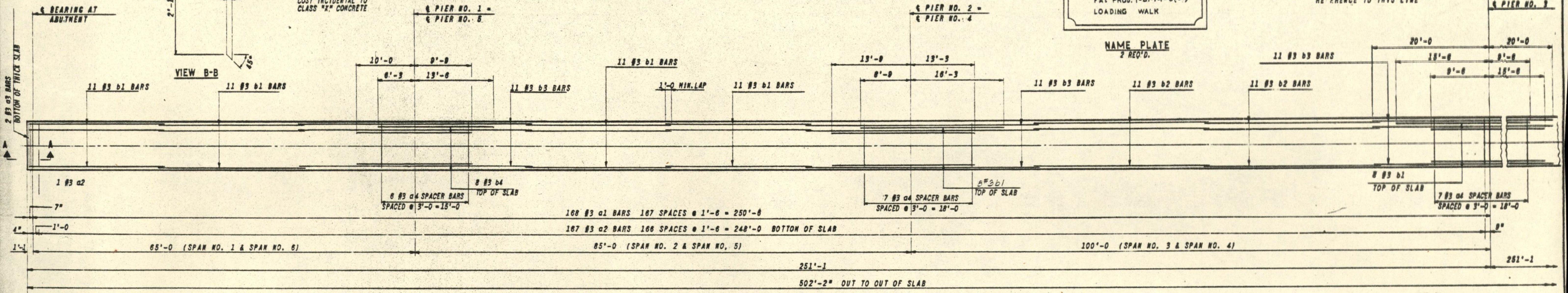


FLOOR PLAN AND SCUPPER LAYOUT

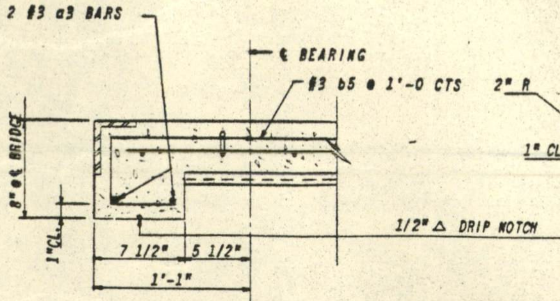


STATION 1935+60.00
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 74 SEC. 92-11HB-6
FAT PROJ. I-UI-74-6(69)
LOADING WALK

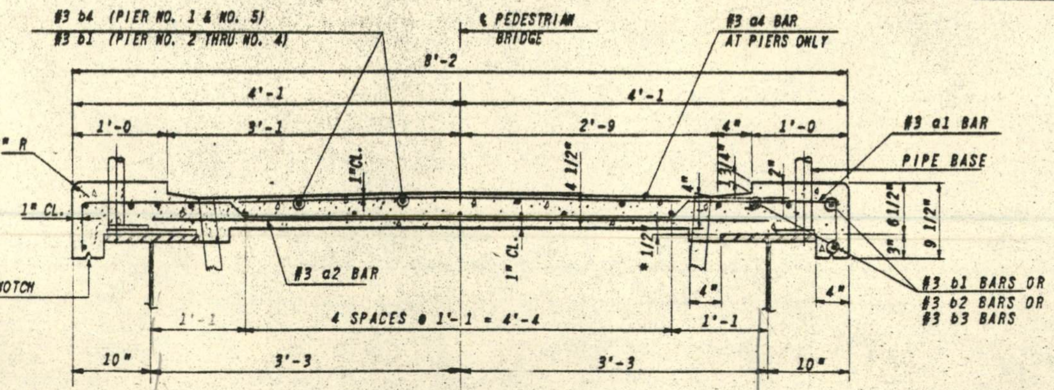
NAME PLATE
2 REQ'D.



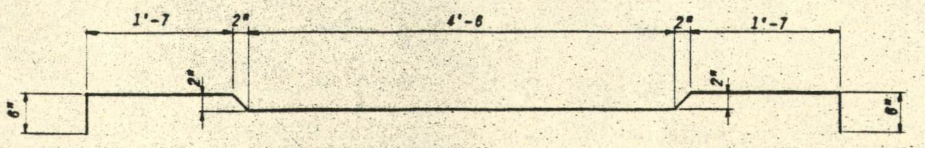
FLOOR PLAN



SECTION A-A

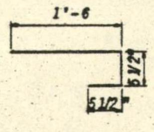


TYPICAL SLAB - SECTION



BENDING DIAGRAM #3 a1 BAR
ALL DIMENSIONS ARE OUT TO OUT OF BAR

* AT SUPPORTS



SUPERSTRUCTURE BAR SCHEDULE					
BAR	NO.	SIZE	LENGTH	SPACING	SHAPE
a 1	335	3	9'-1	1'-6	
a 2	336	3	6'-6	1'-6	
a 3	4	3	7'-9	AS SHOWN	
a 4	33	3	7'-0	3'-0	
b 1	112	3	25'-0	AS SHOWN	
b 2	44	3	30'-0	AS SHOWN	
b 3	55	3	40'-0	AS SHOWN	
b 4	16	3	19'-9	AS SHOWN	
b 5	18	3	2'-5	1'-0	

DECK SLAB QUANTITIES	
CLASS X CONCRETE	66.6 CU. YDS.
REINFORCEMENT BARS	4580. LBS.

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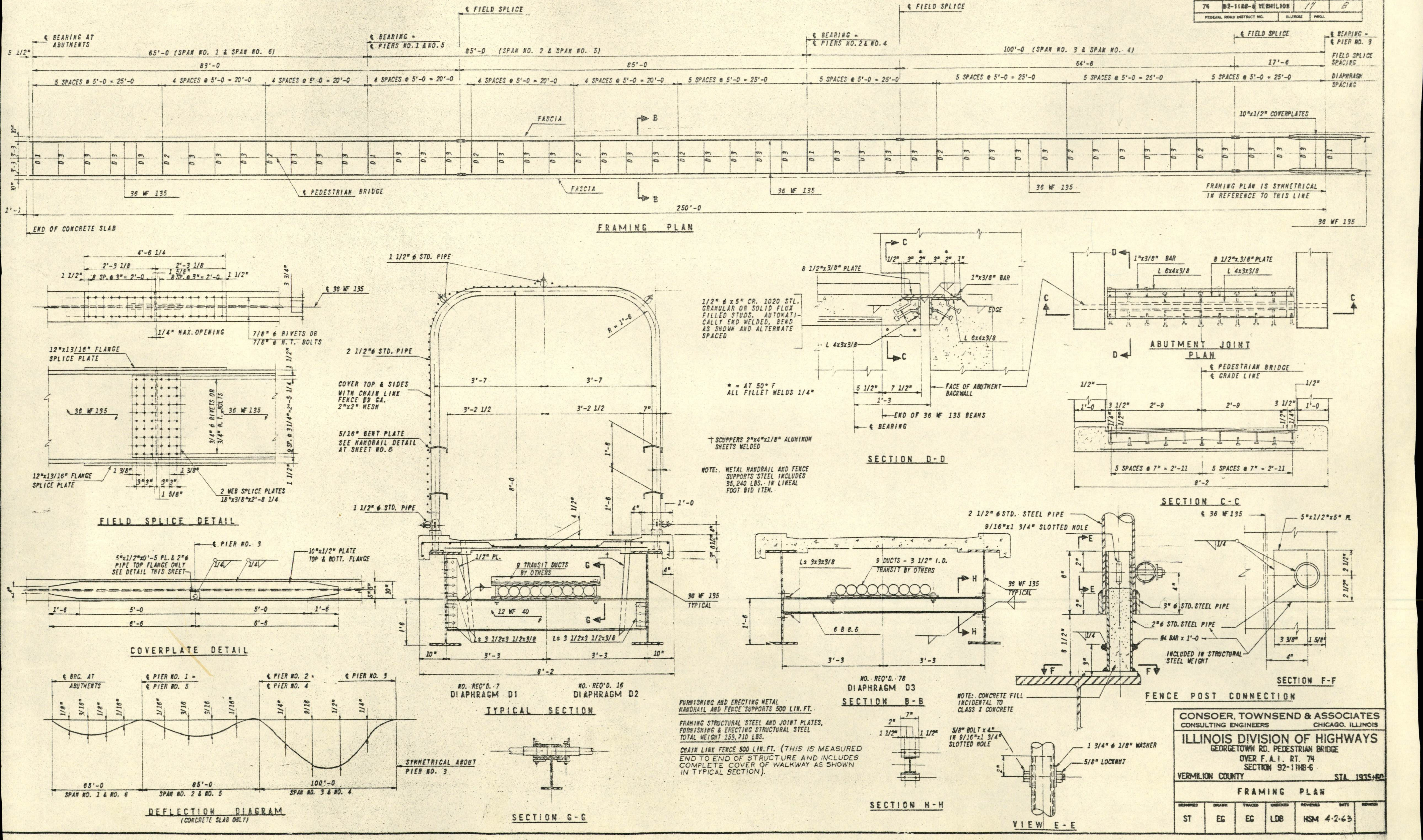
ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
OVER F.A.I. RT. 74
SECTION 92-11HB-6
VERMILION COUNTY STA. 1935+60

DECK SLAB

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ST	DU	DU	LDB	HSM	4-2-63	

F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-6	VERMILION	17	6
FEDERAL ROAD DISTRICT NO.		ILLINOIS	PROJ.	



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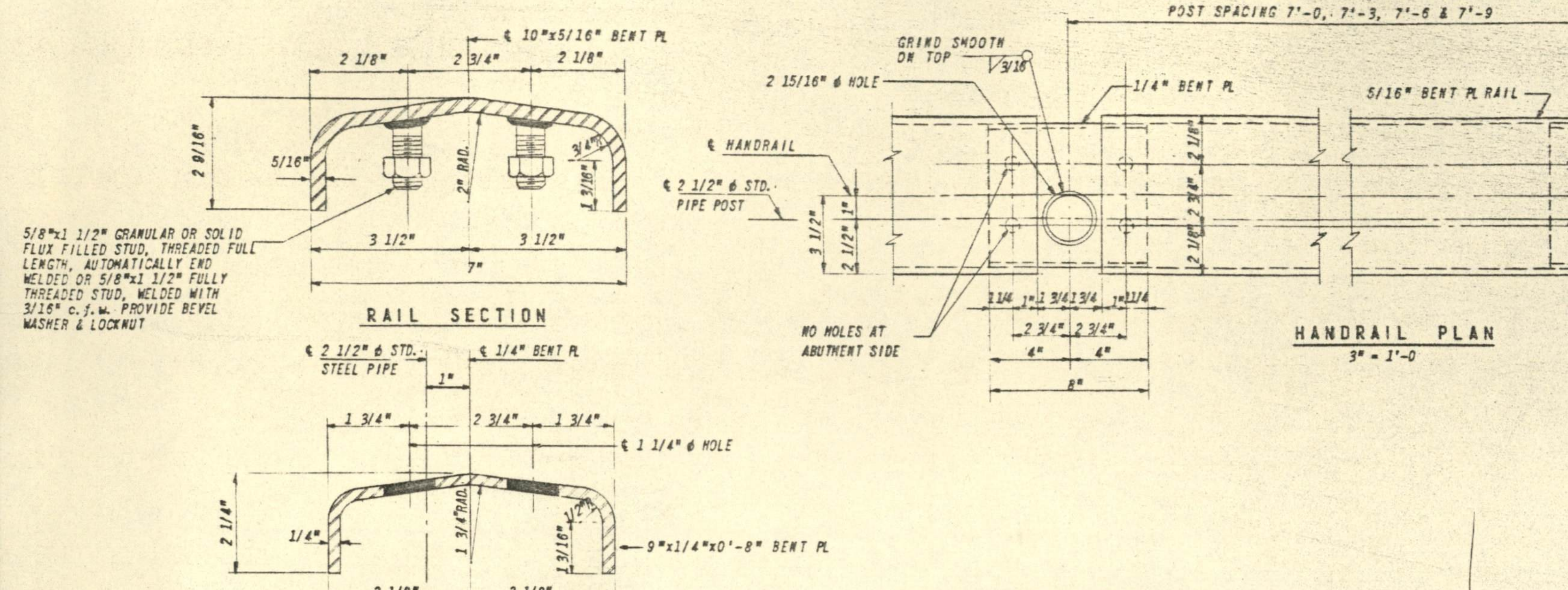
ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
OVER F.A.I. RT. 74
SECTION 92-11HB-6

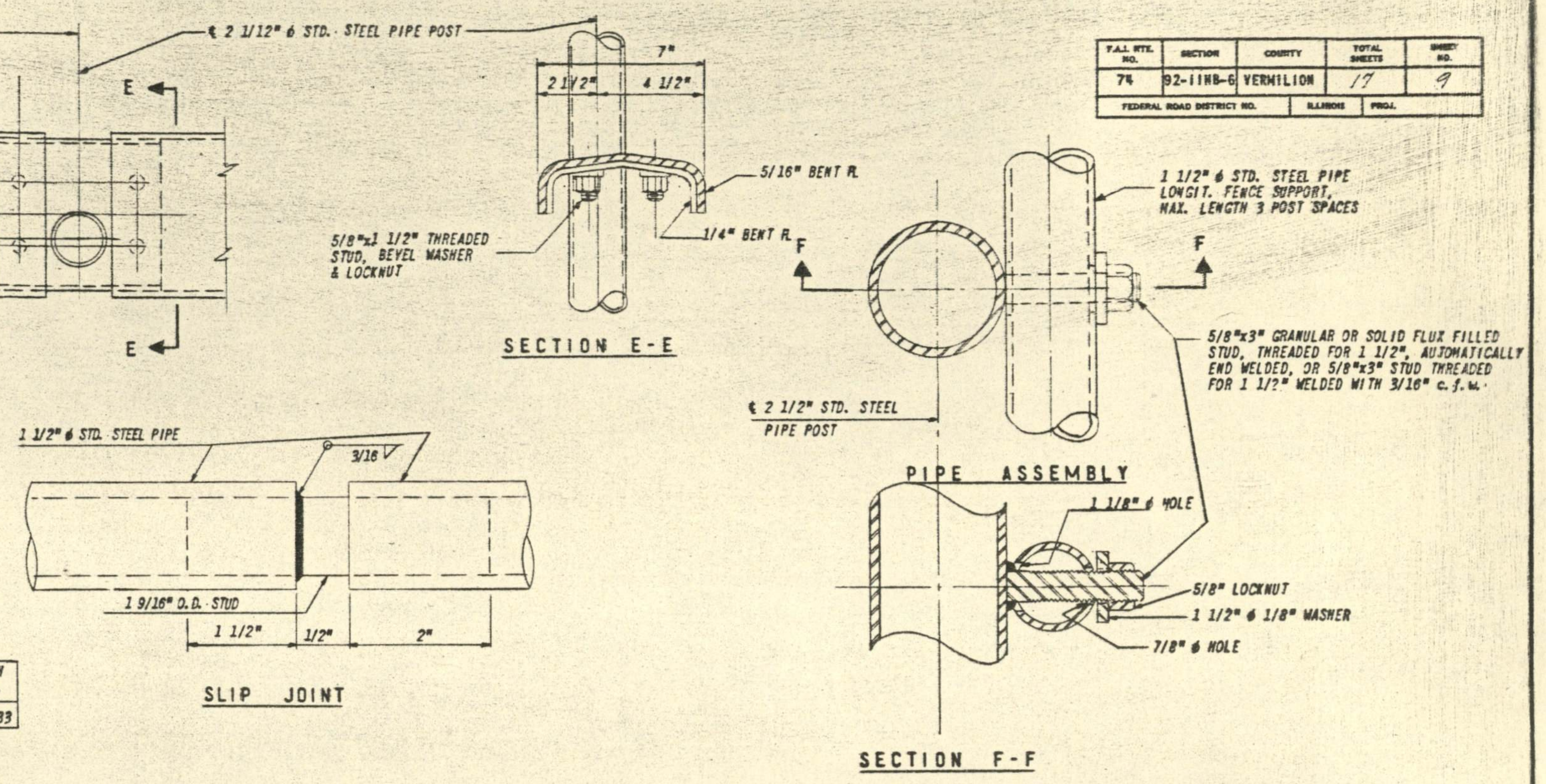
VERMILION COUNTY STA. 1935+60

FRAMING PLAN

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ST	EG	EG	LDB	HSM	4-2-63	



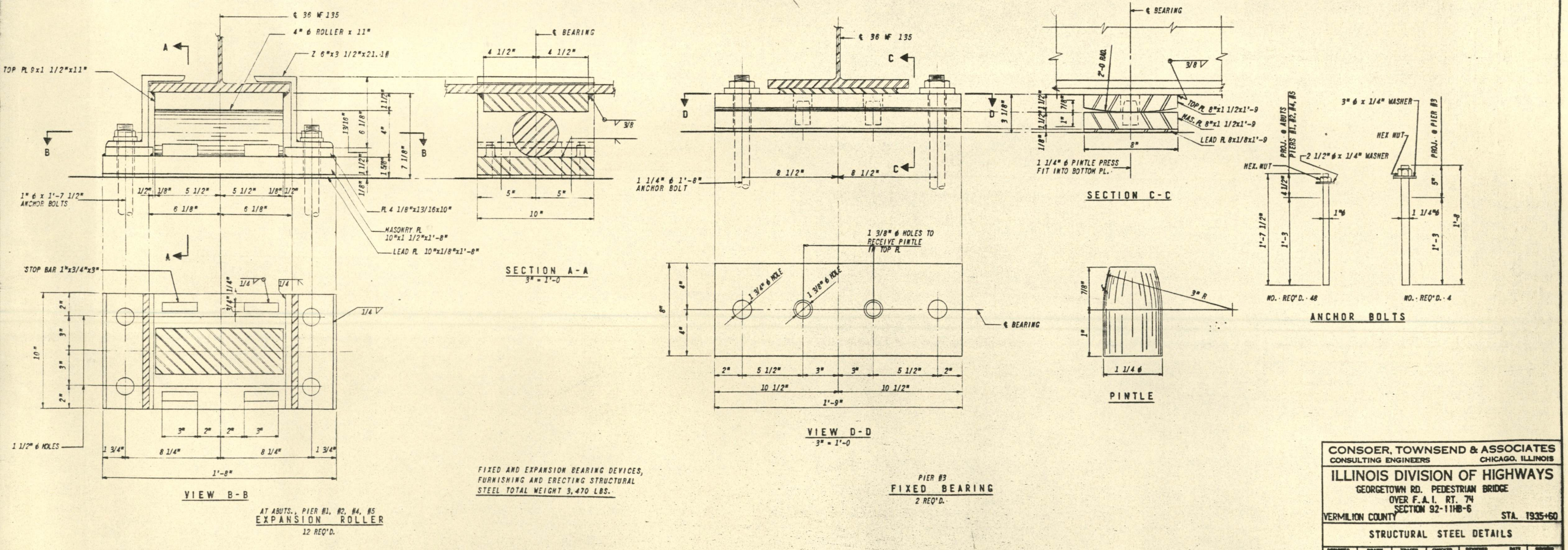
F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-6	VERMILION	17	9



ELEVATIONS TOP OF STEEL BEAMS (TOP OF FLANGE UNDER COVER PLATES)

NORTH ABUT.	PIER #1	SPAN 2 SPLICE	PIER #2	SPAN 3 N SPLICE	SPAN 3 S SPLICE	PIER #3	SPAN 4 N SPLICE	SPAN 4 S SPLICE	PIER #4	SPAN 5 SPLICE	PIER #5	SOUTH ABUT.
628.433	628.628	628.682	628.883	628.937	629.130	629.183	629.236	629.428	629.483	629.684	629.738	629.933

NOTE: FOR FABRICATION USE ONLY, DOES NOT INCLUDE DEFLECTION.



FIXED AND EXPANSION BEARING DEVICES, FURNISHING AND ERECTING STRUCTURAL STEEL TOTAL WEIGHT 3,470 LBS.

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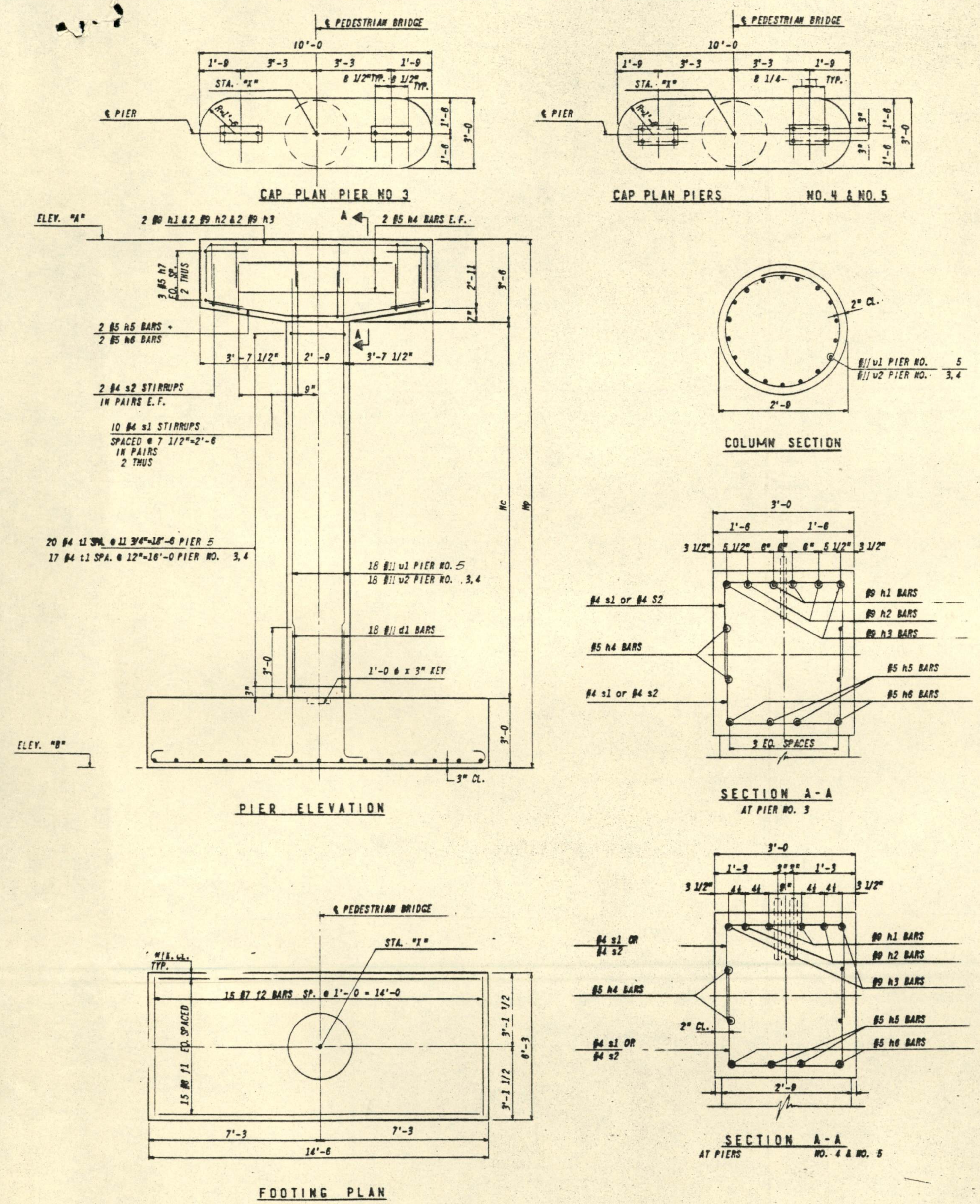
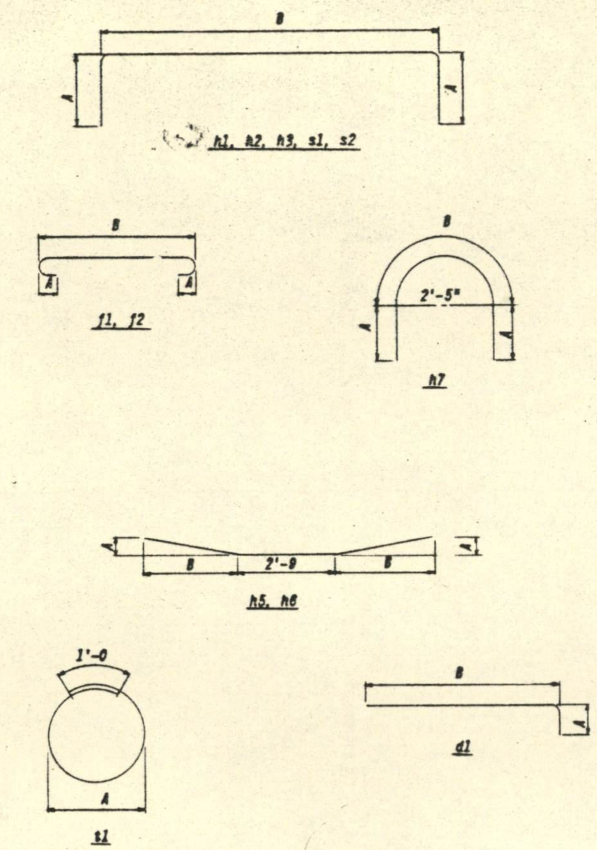
STRUCTURAL STEEL DETAILS

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
ST	DU	DU	LDB	HSM 2-26-63	





F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-6	VERMILION	17	10
FEDERAL ROAD DISTRICT NO.		ILLINOIS	FED.	

PIER BAR SCHEDULE

PIER	BAR	NO.	SIZE	LENGTH	SPACING	SHAPE
No. 3,4 & 5	f1	45	8	16'-2	AS SHOWN	
No. 3,4 & 5	f2	45	7	7'-5	AS SHOWN	
No. 3,4 & 5	d1	54	11	7'-0	AS SHOWN	
NO. 5	v1	18	11	21'-6	AS SHOWN	
No. 3 & 4	v2	36	11	19'-0	AS SHOWN	
No. 3,4 & 5	t1	54	4	8'-8	1'-0	
No. 3,4 & 5	h1	6	9	13'-6	AS SHOWN	
No. 3,4 & 5	h2	6	9	12'-9	AS SHOWN	
No. 3,4 & 5	h3	6	9	11'-0	AS SHOWN	
No. 3,4 & 5	h4	12	5	6'-6	AS SHOWN	
No. 3,4 & 5	h5	6	5	10'-6	AS SHOWN	
No. 3,4 & 5	h6	6	5	7'-1	AS SHOWN	
No. 3,4 & 5	h7	18	5	5'-9	AS SHOWN	
No. 3,4 & 5	s1	60	4	7'-0	AS SHOWN	
No. 3,4 & 5	s2	12	4	6'-0	7 1/2	

PIER QUANTITIES

CLASS X CONCRETE	520 CU. YDS.
REINFORCEMENT BARS	14,780 LBS.

BENDING SCHEDULE

BAR	LENGTH	A	B
f1	16'-2	1'-1	14'-0
f2	7'-5	0'-10	5'-9
d1	7'-0	1'-6	5'-6
t1	8'-8	2'-5	
h1	13'-6	2'-0	9'-6
h2	12'-9	2'-0	8'-9
h3	11'-0	2'-0	7'-0
h5	10'-6	0'-8 1/2	3'-4
h6	7'-1	0'-4	2'-1
h7	5'-9	1'-0	3'-9
s1	7'-0	2'-2	2'-8
s2	6'-0	1'-10	2'-4

SUMMARY OF PIER DIMENSIONS

PIER	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5
STA. "X"	~~48+15~~	~~49+00~~	50+00	51+00	51+85
ELEV. "A"	~~625.07~~	~~625.33~~	625.82	625.93	626.18
ELEV. "B"	~~599.57~~	~~602.33~~	602.82	602.93	600.68
Hp	~~25'-6~~	~~23'-0~~	23'-0	23'-0	25'-6
Hc	~~19'-0~~	~~16'-6~~	16'-6	16'-6	19'-0

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ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
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SECTION 92-11HB-6
VERMILION COUNTY STA. 1935+60

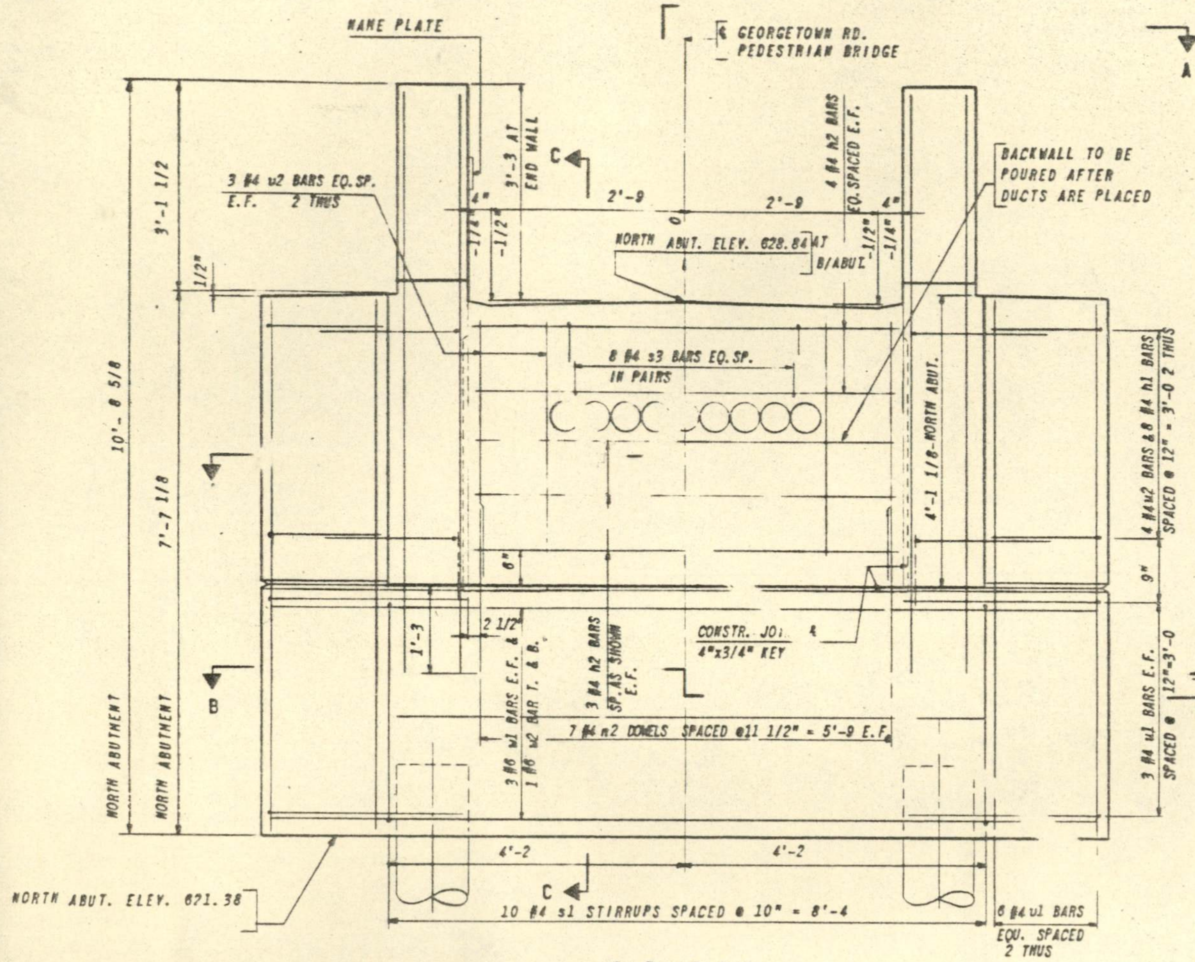
PIERS 3,4 & 5

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED
ST	DU	DU	LDB	HSM	2/26/63	

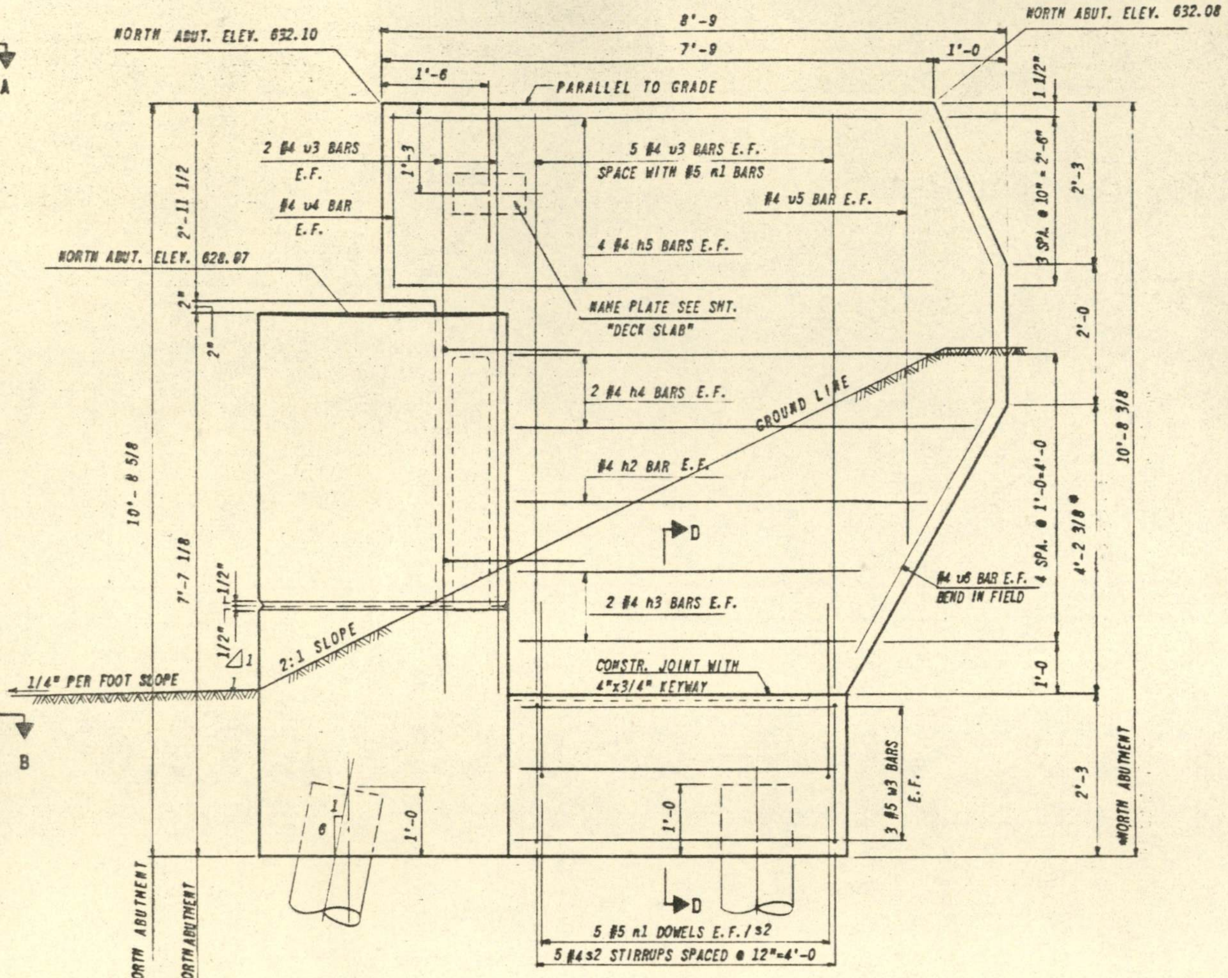
Revisions 7/10/63) Removed all details & references to Pier 1 & 2 and revised quantities thusly { Class X Conc. 86.8 cu.yds. to 52.0 cu.yds. Reinforcement 12,740 lbs. to 7,620 lbs. Class A Excavation 362.0 Cu.yds to 0.0 cu.yds. B.C.

Revision 7-15-63: Number of d1, v1, v2 bars in Pier columns changed from 12 to 18; weight of Reinforcement Bars changed from 7620# to 14780#. W.C.K.

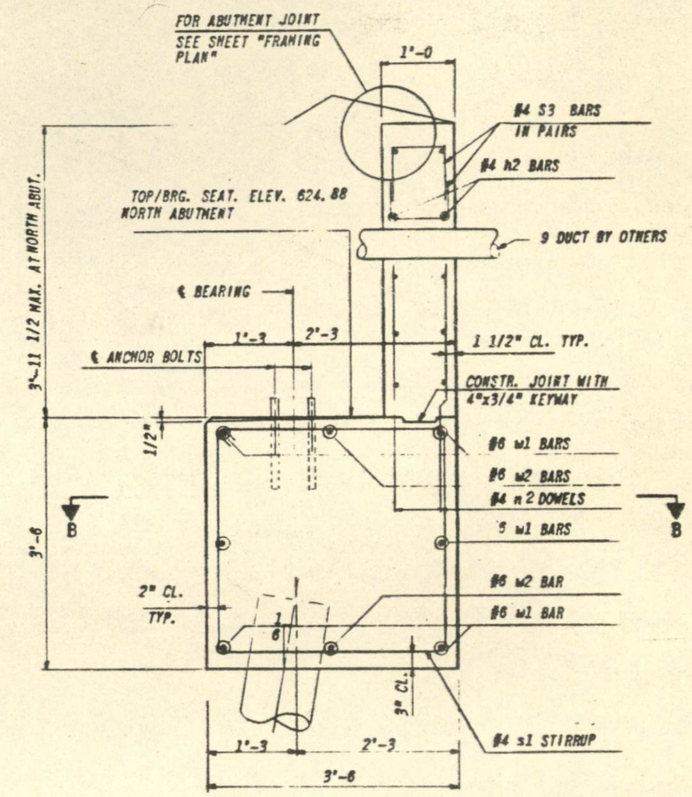
F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-6	VERMILION	17	11
FEDERAL ROAD DISTRICT NO. 7		ILLINOIS	PROJ.	



ELEVATION



END VIEW



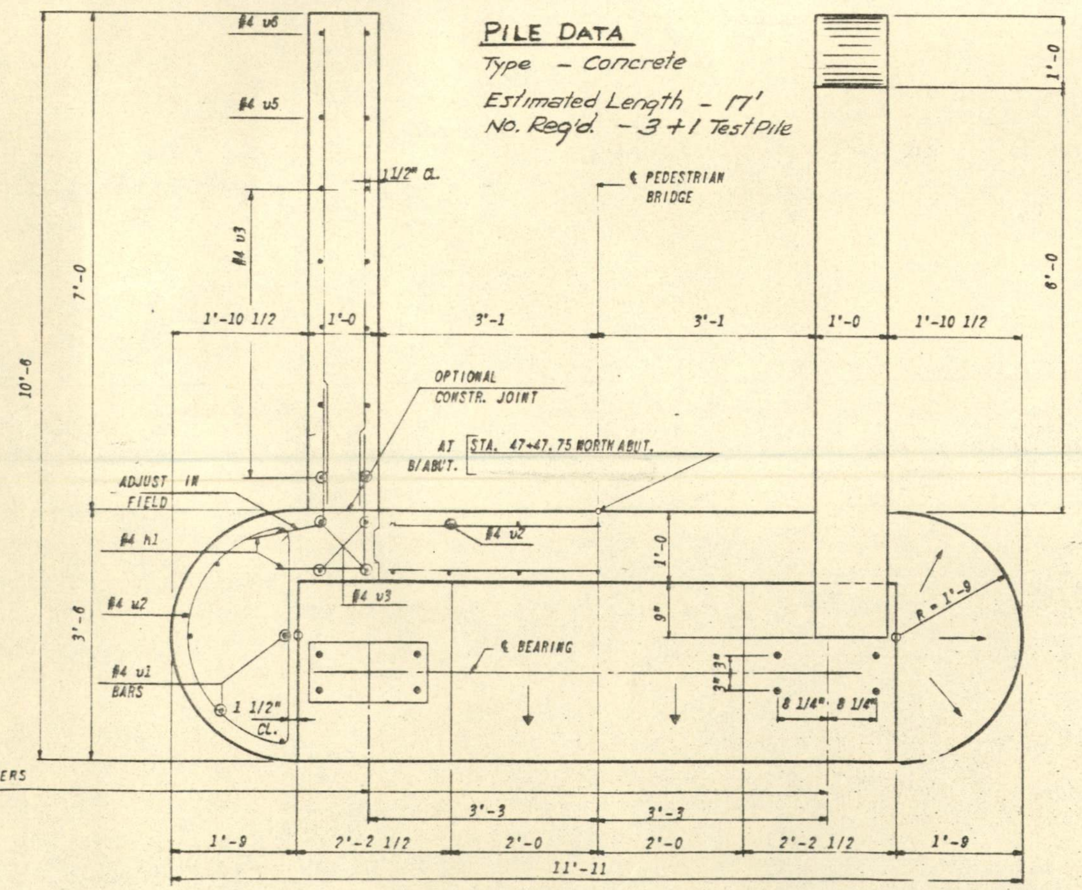
SECTION C-C

PILE DATA

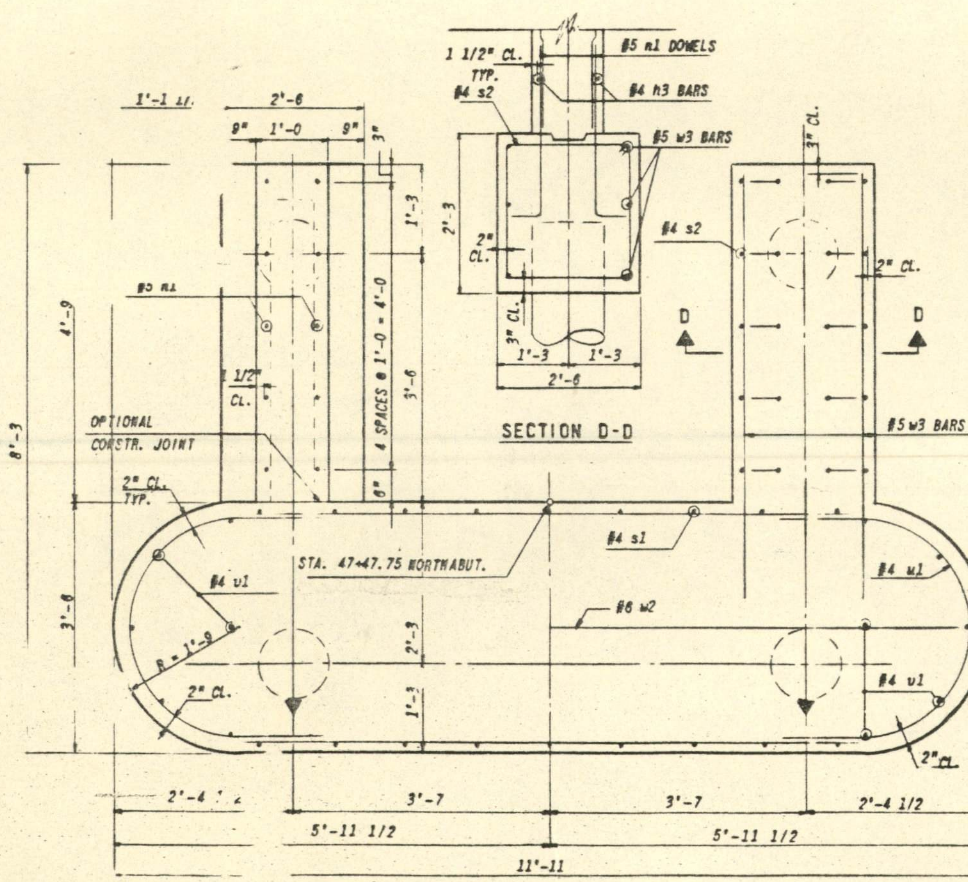
Type - Concrete

Estimated Length - 17'

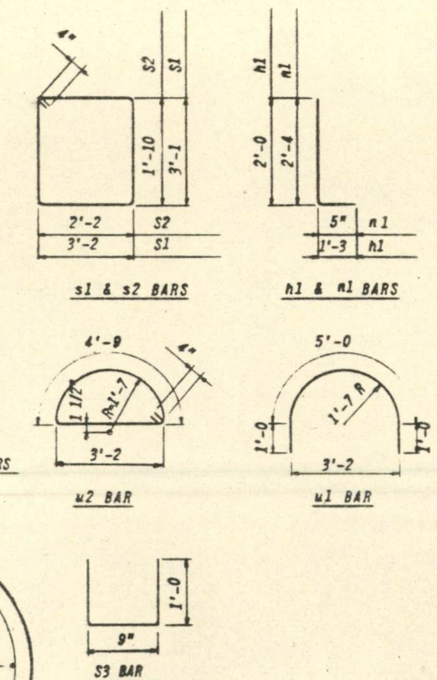
No. Req'd. - 3 + 1 Test Pile



SECTION A-A



SECTION B-B



ABUTMENT BAR SCHEDULE						
ABUT.	BAR	NO.	SIZE	LENGTH	SPACING	SHAPE
N	w1	6	#6	8'-6	AS SH.	
"	w2	2	#6	11'-6	"	
"	w3	12	#5	6'-0	"	
"	u1	6	#4	7'-0	1'-0	
"	u2	8	#4	8'-7	1'-0	
"	h1	16	#4	3'-3	1'-0	
"	h2	14	#4	5'-10	AS SH.	
"	h3	8	#4	4'-9	1'-0	
"	h4	8	#4	6'-6	1'-0	
"	h5	16	#4	7'-6	0-10	
"	v1	12	#4	7'-0	AS SH.	
"	v2	12	#4	3'-8	"	
"	v3	28	#4	8'-0	"	
"	v4	4	#4	2'-8	"	
"	v5	4	#4	6'-0	"	
"	v6	4	#4	8'-3	"	
"	n1	20	#5	2'-9	1'-0	
"	n2	14	#4	2'-6	11 1/2"	
"	s1	10	#4	13'-2	10"	
"	s2	10	#4	8'-8	1'-0	
"	s3	8	#4	2'-9	AS SH.	

ABUTMENT QUANTITIES	
CLASS X CONCRETE	12.6 CU. YDS.
REINFORCEMENT BARS	930 LBS.
-	

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ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
OVER FAI RT. 74
SECTION 92-11HB-6
VERMILION COUNTY STA. 1935+60

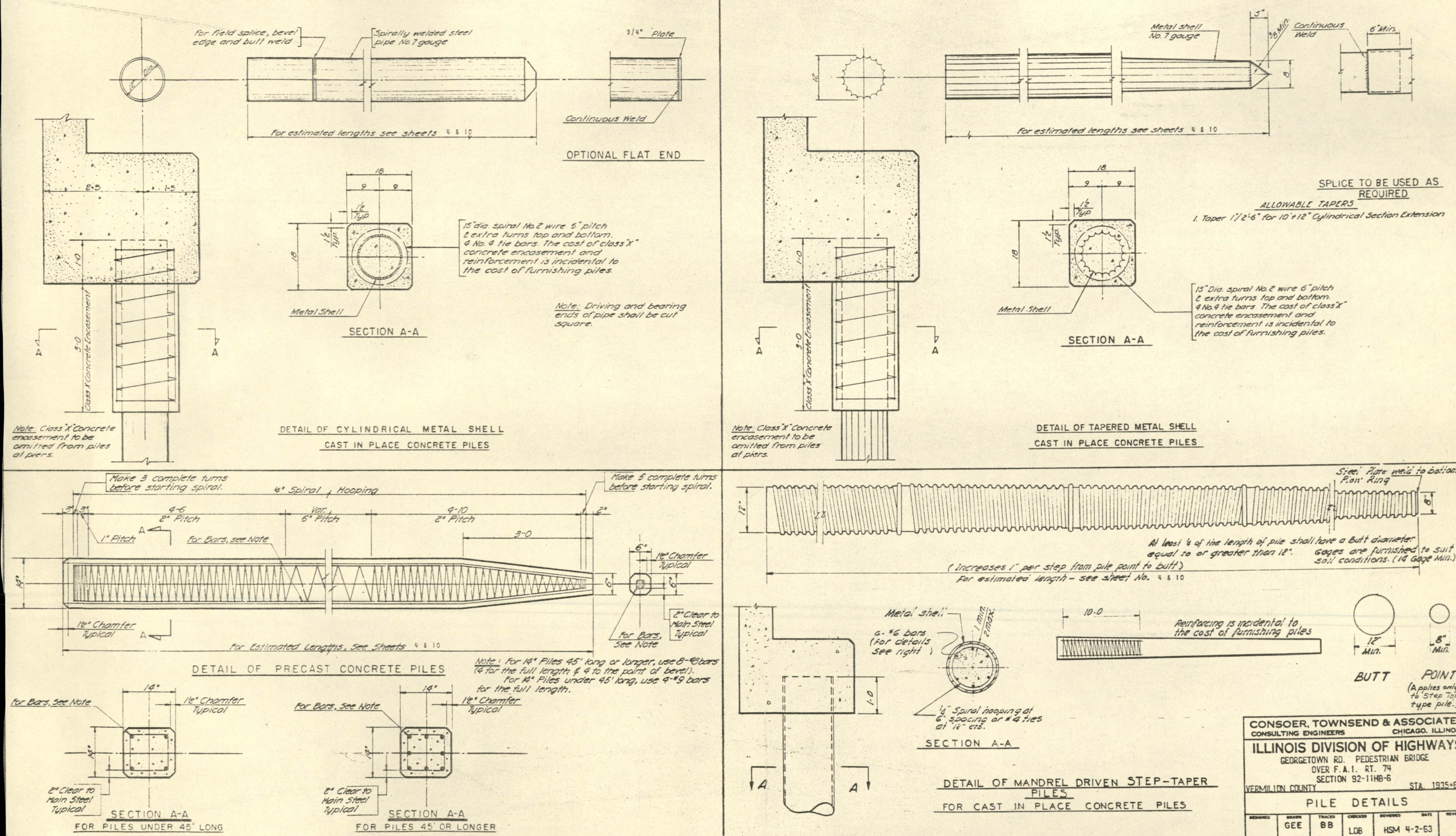
NORTH ABUTMENT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
ST	DU	DU	LDB	HSM 4-2-63	

Revised: 7-11-63 - Removed all reference to South Abut. Cut all reinforcement bar quantities in half.

Revised quantities thusly: Class X Concrete 25.1 cu. yds. to 12.6 cu. yds. Reinforcement Bars 1,850 lbs. to 930 lbs. Class A Excavation 64 cu. yds. to 0.0 cu. yds. B.O.

F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB6	VERMILION	17	12
FEDERAL ROAD DISTRICT NO. 7		ILLINOIS	PROJ.	



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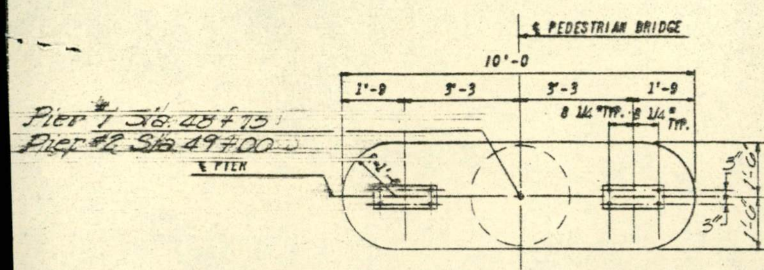
ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
OVER F.A.I. RT. 74
SECTION 92-11HB-6
VERMILION COUNTY STA. 1935+60

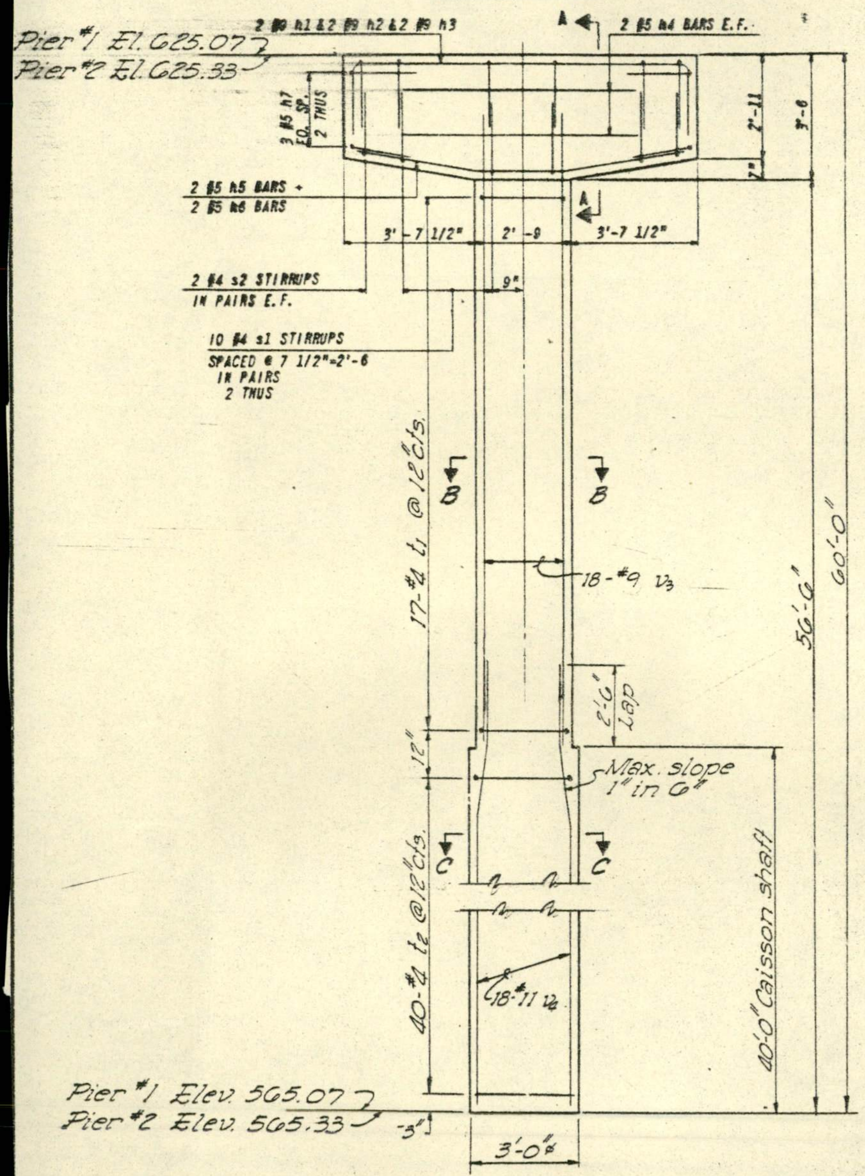
PILE DETAILS

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	GEE	BB	LDB	HSM	4-2-63	

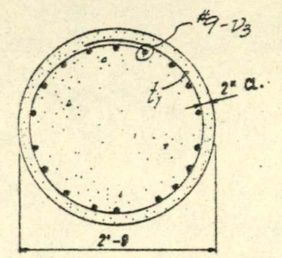
F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-6	VERMILION	17	13
FEDERAL ROAD DISTRICT NO.		ILLINOIS	PROJ.	



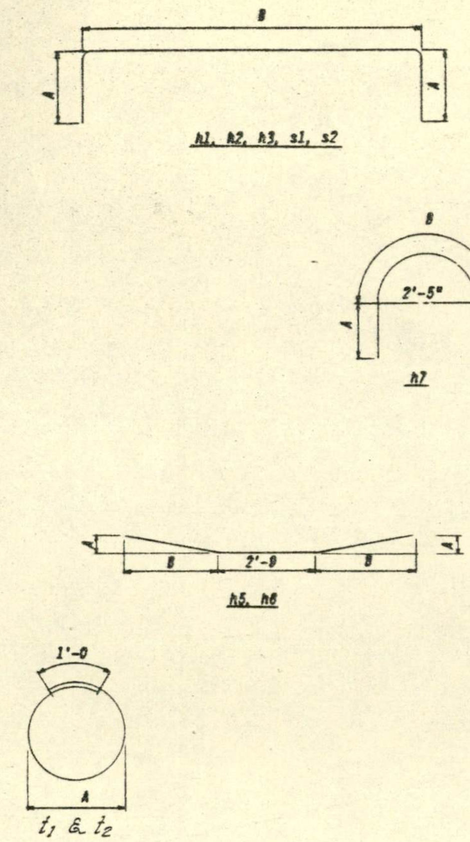
CAP PLAN PIER



ELEVATION



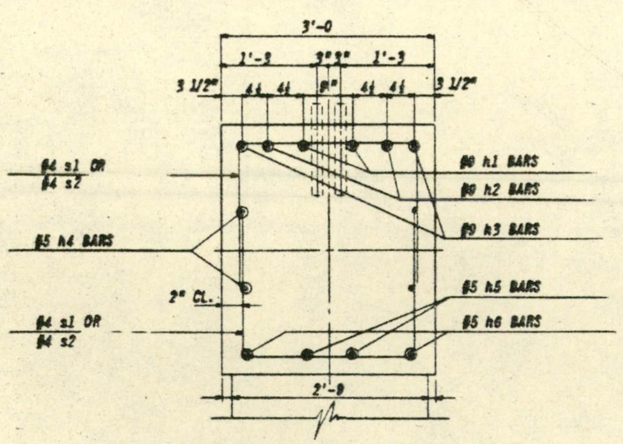
SECTION B-B



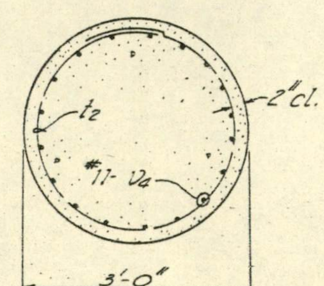
PIER BAR SCHEDULE						
PIER	BAR	NO.	SIZE	LENGTH	SPACING	SHAPE
NO. 1 & NO. 2	v_3	36	9	19'-0"	AS SHOWN	
" "	v_4	36	11	42'-6"	AS SHOWN	
" "	t1	34	4	8'-8	1'-0"	
" "	t_2	80	4	9'-6"	1'-0"	
" "	h1	4	9	13'-6	AS SHOWN	
" "	h2	4	9	12'-9	AS SHOWN	
" "	h3	4	9	11'-0	AS SHOWN	
" "	h4	8	5	6'-6	AS SHOWN	
" "	h5	4	5	10'-6	AS SHOWN	
" "	h6	4	5	7'-1	AS SHOWN	
" "	h7	72	5	5'-9	AS SHOWN	
" "	s1	40	4	7'-0	AS SHOWN	
" "	s2	8	4	6'-0	7 1/2	

PIER QUANTITIES	
CLASS X CONCRETE	14.2 CU. YDS.
REINFORCEMENT BARS	12,080 LBS.
Caisson Shaft 36"ϕ	565.5 Cu. Ft.

BENDING SCHEDULE			
BAR	LENGTH	A	B
t_2	9'-6"	2'-8"	
t1	8'-8	2'-5	
h1	13'-6	2'-0	9'-6
h2	12'-9	2'-0	8'-9
h3	11'-0	2'-0	7'-0
h5	10'-6	0'-8 1/2	3'-4
h6	7'-1	0'-4	2'-1
h7	5'-9	1'-0	3'-9
s1	7'-0	2'-2	2'-8
s2	6'-0	1'-10	2'-4



SECTION A-A



SEC. C-C

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ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
OVER F.A.I. RT. 74
SECTION 92-11HB-6

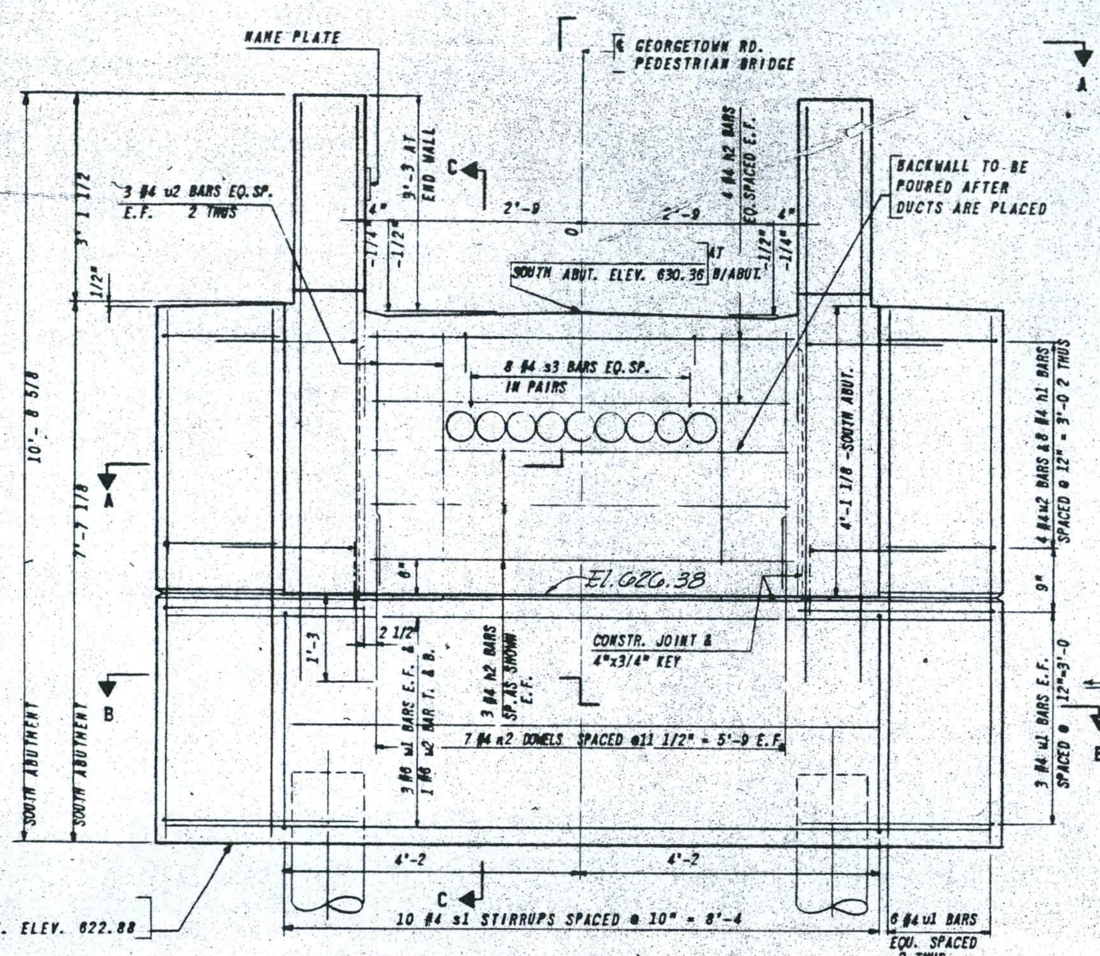
VERMILION COUNTY STA. 1935+60

PIERS 1 & 2

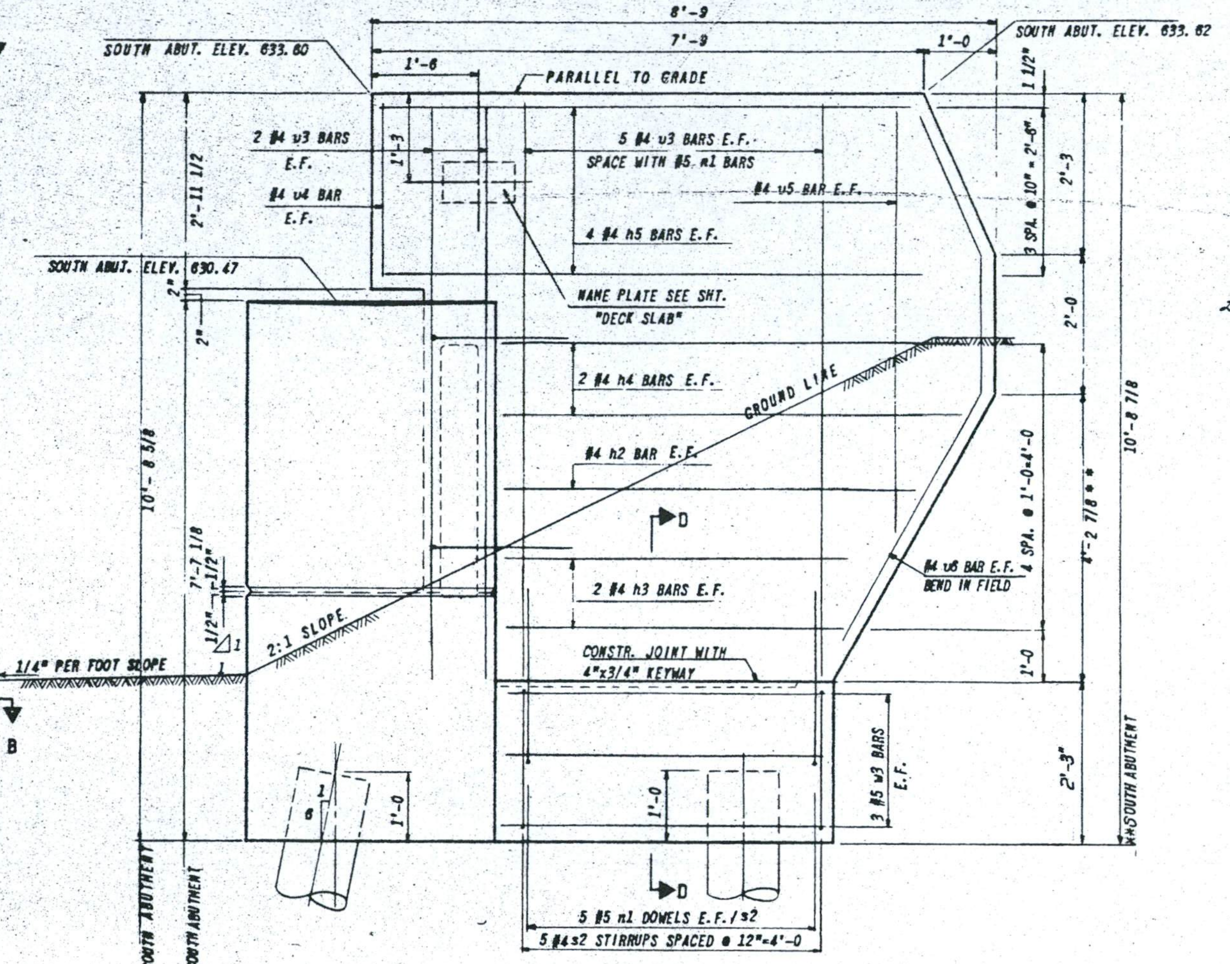
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ST	DU	DU	LDB	HSM	2/26/63	

Revised - 7-10-63
Removed spread footings from piers & replaced with caisson shafts. Revised quantities thusly: { Class X Concrete 34.8 cu. yds to 14.2 cu. yds. Reinforcement Bars 5,120 lbs to 12,080 lbs. Caisson shaft 36"ϕ 0.0 cu. ft. to 565.5 cu. ft. B.C.

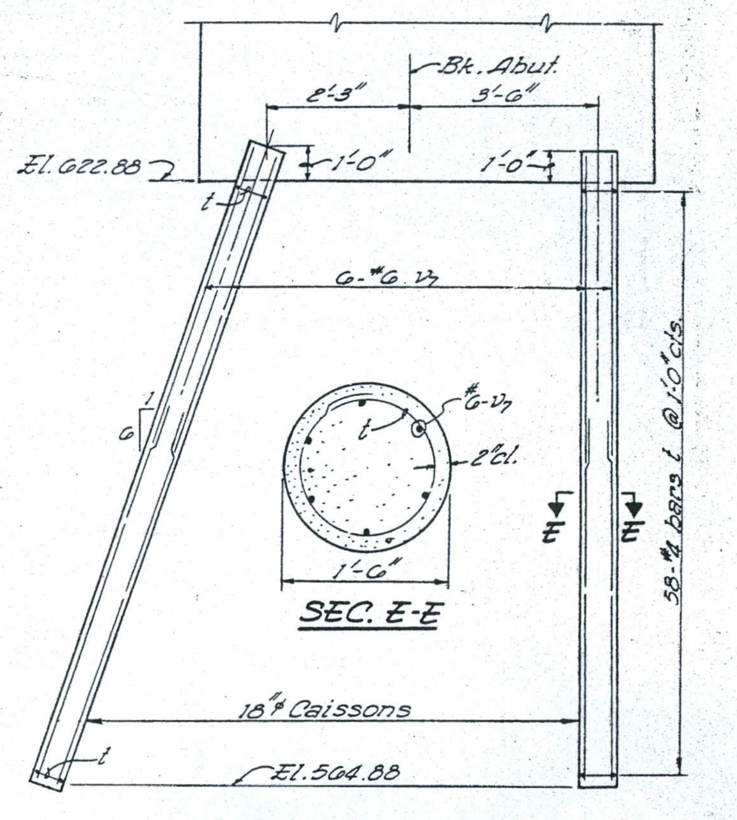
F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	92-11HB-6	VERMILION	17	14
FEDERAL ROAD DISTRICT NO. 7		ILLINOIS	PROJ.	



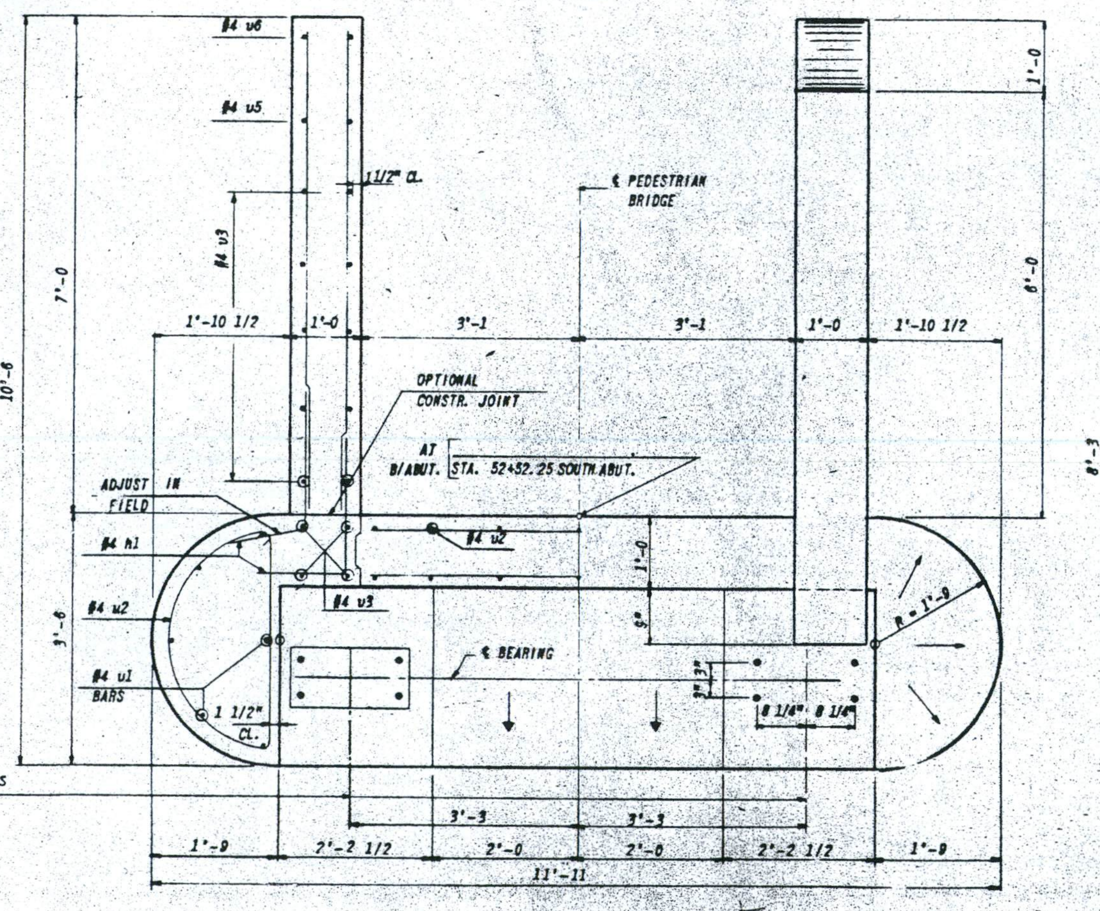
ELEVATION



END VIEW

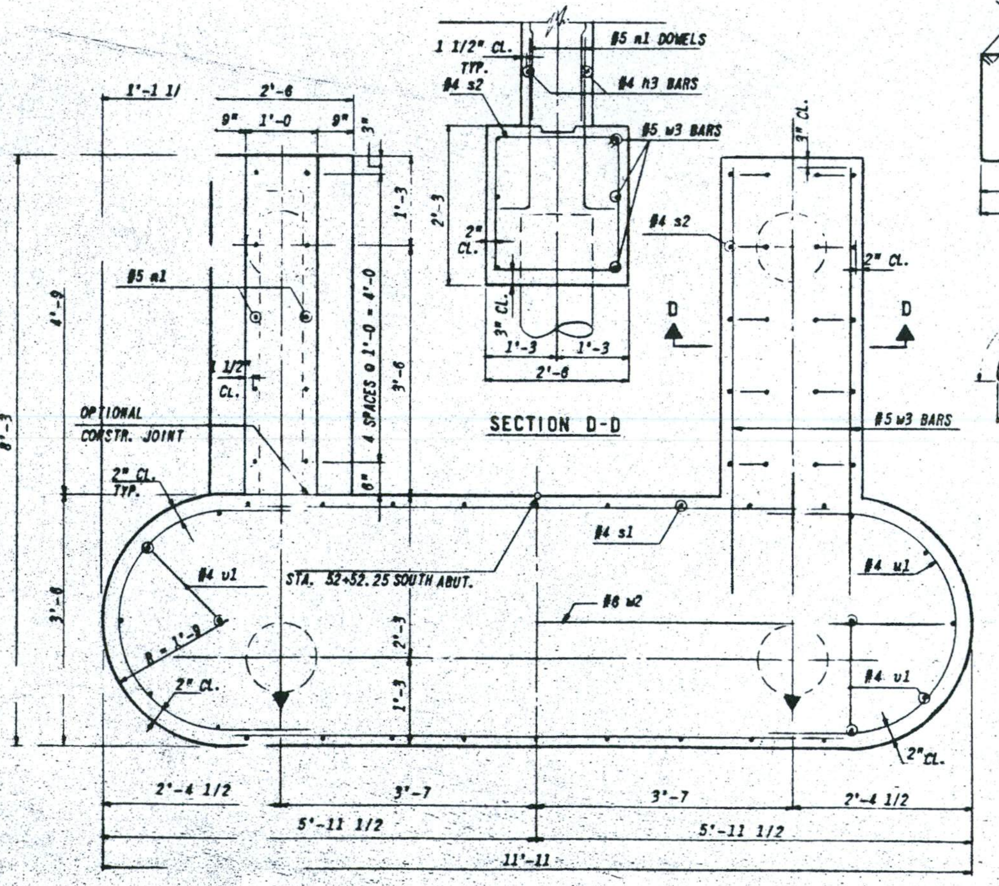


CAISSON DETAILS

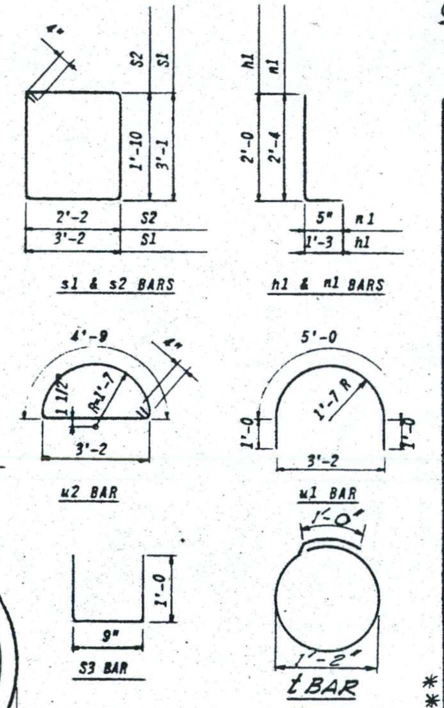


SECTION A-A

Note: See sheet #10 for Section C-C



SECTION B-B



ABUTMENT BAR SCHEDULE						
ABUT.	BAR	NO.	SIZE	LENGTH	SPACING	SHAPE
N	w1	6	#6	8'-6	AS SH.	
"	w2	2	#6	11'-6	"	
"	w3	12	#5	6'-0	"	
"	u1	6	#4	7'-0	1'-0	
"	u2	8	#4	8'-7	1'-0	
"	h1	16	#4	3'-3	1'-0	
"	h2	14	#4	5'-10	AS SH.	
"	h3	8	#4	4'-9	1'-0	
"	h4	8	#4	6'-6	1'-0	
"	h5	16	#4	7'-6	0-10	
"	v1	12	#4	7'-0	AS SH.	
"	v2	12	#4	3'-8	"	
"	v3	28	#4	8'-0	"	
"	v4	4	#4	2'-8	"	
"	v5	4	#4	6'-0	"	
"	v6	4	#4	8'-3	"	
"	n1	20	#5	2'-9	1'-0	
"	n2	14	#4	2'-6	11 1/2"	
"	s1	10	#4	13'-2	10"	
"	s2	10	#4	8'-8	1'-0	
"	s3	8	#4	2'-9	AS SH.	
* "	t	232	#4	4'-8"	1'-0"	
* "	v7	48	#6	30'-6"	As Sh.	

ABUTMENT QUANTITIES	
CLASS X CONCRETE	72.6 CU. YDS.
REINFORCEMENT BARS	3,850 LBS.
CAISSON SHAFT 18"ø	421.3 Cu.Ft.

*Caisson reinforcement

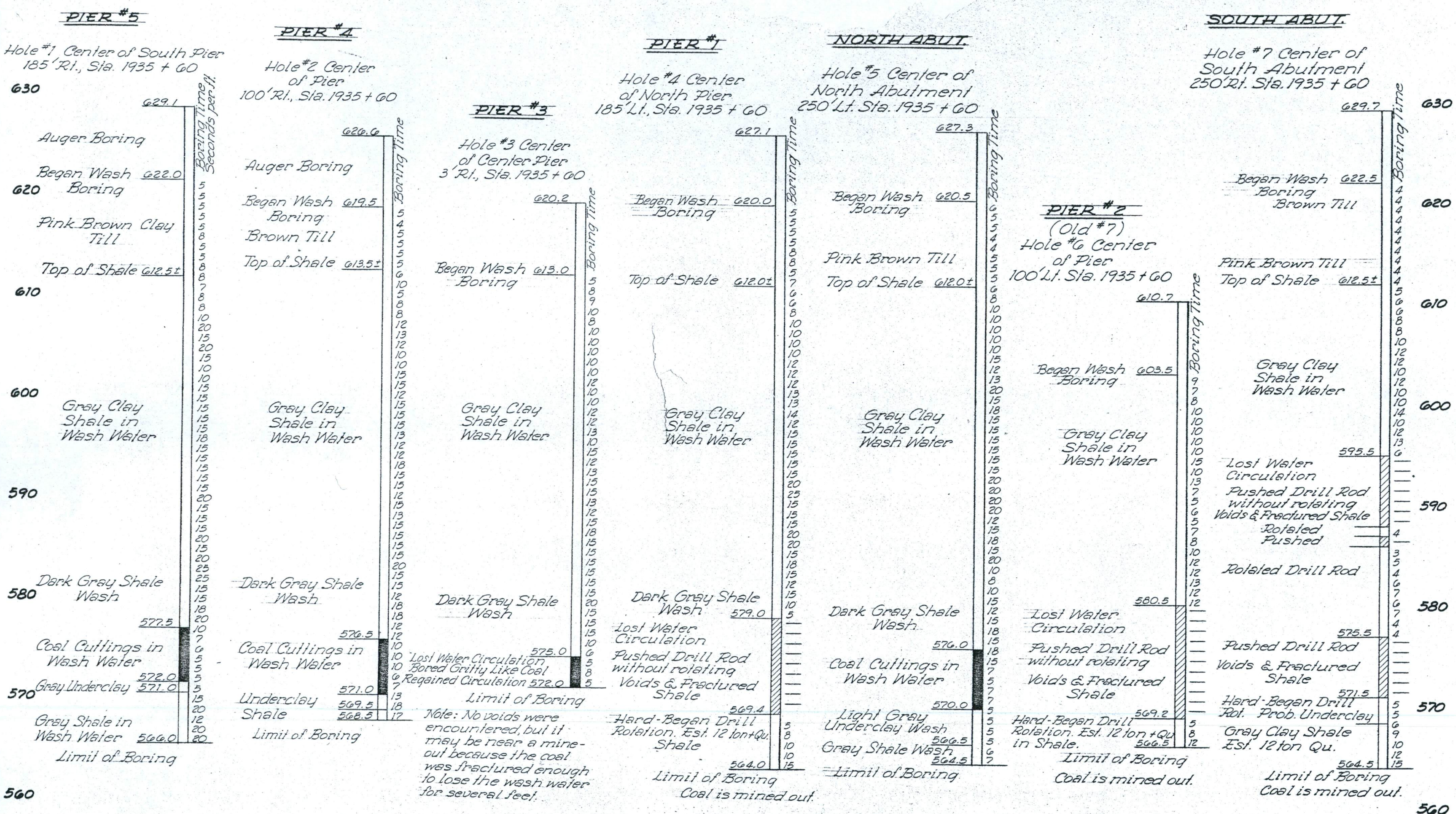
CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS CHICAGO, ILLINOIS

ILLINOIS DIVISION OF HIGHWAYS
GEORGETOWN RD. PEDESTRIAN BRIDGE
OVER FAI RT. 74
SECTION 92-11HB-6
VERMILION COUNTY STA. 1935+60

SOUTH ABUTMENT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ST	DU	DU	LDB	HSM	4-2-63	

F.A.I. 74	92-11HB-6	VERMILION	17	15	SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			



Note: Boring time as shown, seconds per foot, is relevant only on the hole bored since the amount of hydraulic pressure, speed of rotation and the amount of circulating water may have varied from hole to hole.

DESIGNED Robb L. Olson	EXAMINED	19
CHECKED J. Havering	PASSED	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN J. Mullentx	APPROVED	ENGINEER OF DESIGN
CHECKED J. Havering		CHIEF HIGHWAY ENGINEER

092-0150

WASH BORINGS

GEORGETOWN ROAD
PEDESTRIAN BRIDGE
F.A.I. RT. 74 SEC. 92-11HB-6
VERMILION COUNTY
STATION 1935+60