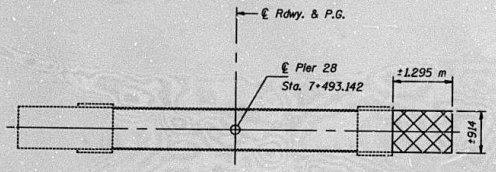
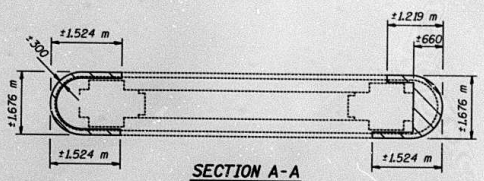
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

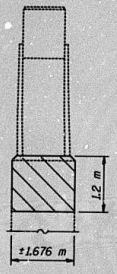
ROUTE NO.	SECTION	COUNTY	JOB NO.	SHEET NO.
F.A. 317	15B-I-8	PEORIA & TAZEWELL	303	245
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS



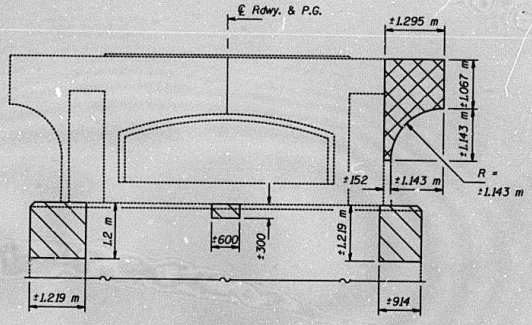
PLAN



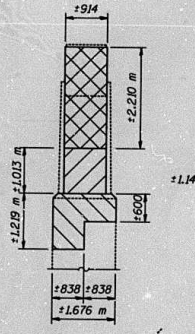
SECTION A-A



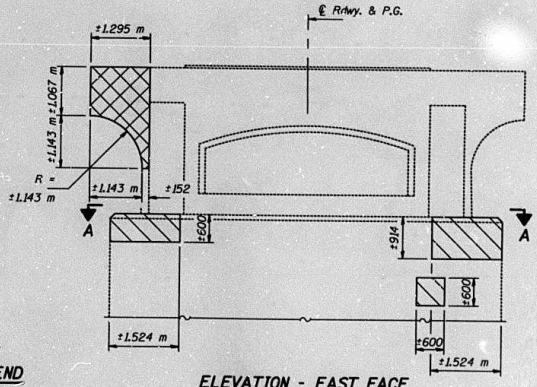
ELEVATION - NORTH END



ELEVATION - WEST FACE
(Looking East)



ELEVATION - SOUTH END



ELEVATION - EAST FACE
(Looking West)

BILL OF MATERIAL - PIER 28

Item	Unit	Total
Concrete Removal	m^3	1.7
Formed Concrete Repair (Depth Greater Than 125 mm)	m^2	1
Formed Concrete Repair (Depth Equal To or Less Than 125 mm)	m^2	11

Concrete Removal

Formed Concrete Repair (Depth Greater Than 125 mm)

Formed Concrete Repair (Depth Equal To or Less Than 125 mm)

DESIGNED	S. Moynihan
CHECKED	D. Verhulst
DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. D.G.V.

EXAMINED March 10, 1999
DIRECTOR OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

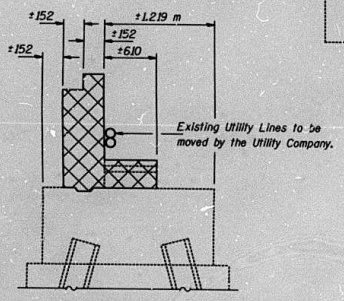
Notes: Existing reinforcement extending into new construction shall be cleaned, straightened and incorporated into new construction. Cost included with "Concrete Removal".

CONCRETE REMOVAL & REPAIR
PIER 28
F.A. ROUTE 317 SECTION 15B-I-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

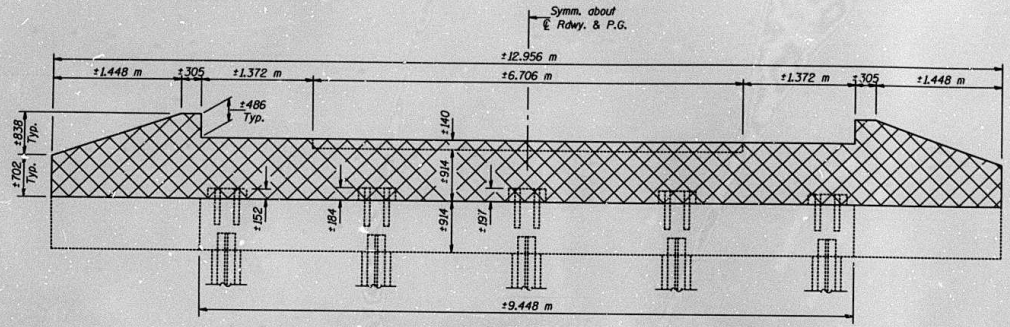
DWG. NO. F47

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

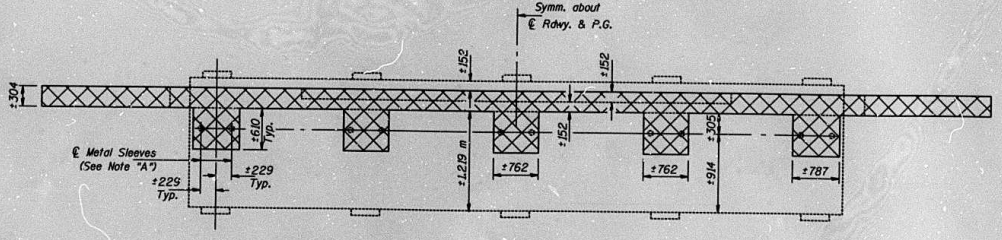
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-I-8	PEORIA & TAZEWELL	307	246
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS



SEC. THRU ABUT.



ELEVATION
(Looking East)



PLAN

Notes:
Existing reinforcement extending into the new construction shall be cleaned, straightened and incorporated into new construction. Cost included with "Concrete Removal".

BILL OF MATERIAL - EAST ABUTMENT

Item	Unit	Total
Concrete Removal	m^3	4.6

Note "A":
2-76 mm ϕ x 381 mm metal sleeves (and covers) made of #20 gage galvanized steel are embedded in concrete under each existing bearing. Flame cut to removal line. If concrete in sleeve is deteriorated, remove and replace with a grout approved by the Department. Cost included with "Concrete Removal".

Concrete Removal

DESIGNED	S. Moynihan
CHECKED	D. Verhulst
r.b.c. DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. D.G.V.

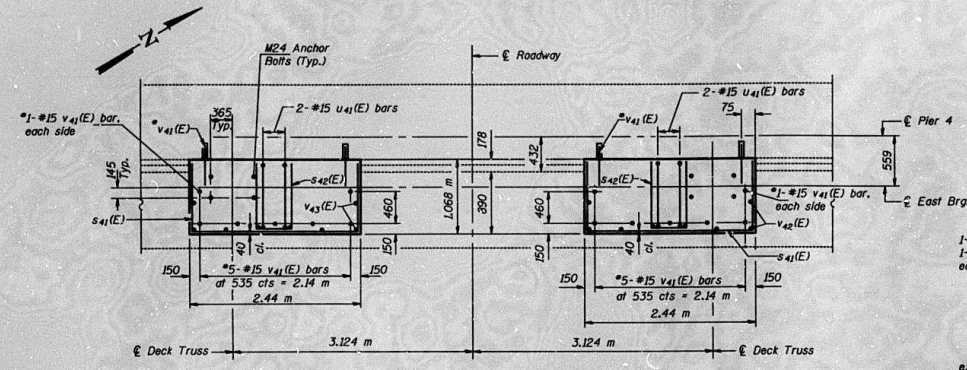
March 10, 1999
EXAMINED Engr. of Bridge Design
PASSED Engineer of Bridges and Structures

CONCRETE REMOVAL
EAST ABUTMENT
F.A. ROUTE 317 SECTION 15B-I-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

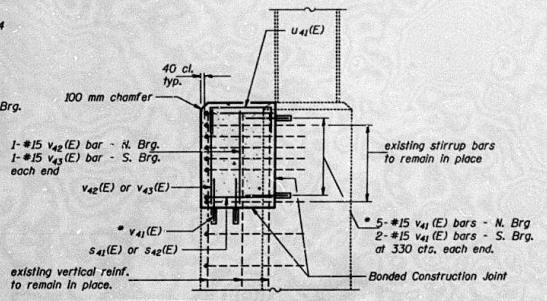
DWG. NO. F48

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

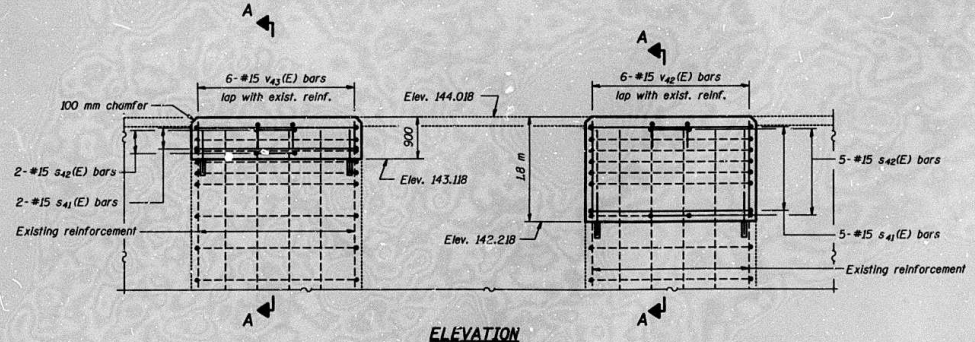
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FA 317	15B-1-8	TAZEWELL	303	247
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS



PLAN



SECTION A - A



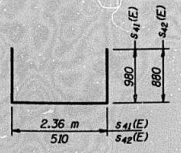
ELEVATION
(Looking West)

BILL OF MATERIAL - PIER 4

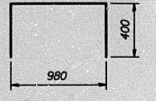
Bar	No.	Size	Length(m)	Shape
v41(E)	28	#15	0.61	
v42(E)	8	#15	1.70	
v43(E)	8	#15	0.80	
s41(E)	7	#15	4.32	
s42(E)	7	#15	2.27	
u41(E)	4	#15	1.78	
Concrete Structures			m3	7.0
Reinforcement Bars, Epoxy Coated			kg	140

Notes:
All edges shall have standard 20 mm chamfer unless otherwise noted.
Space reinforcement in cap to miss anchor bolts.
Reinforcement bars designated (E) shall be epoxy coated.
Space drilled holes in existing cap to miss existing reinforcement.
Slope concrete away from bearing at 3 mm per 300 mm.
See Drawing F29 for Anchor Bolt installation.

* Epoxy grout v41(E) bars in 230 mm (min) drilled holes according to Section 584 of the Standard Specifications.



BARS s41(E) and s42(E)



BAR u41(E)

DESIGNED	D. Verhulst
CHECKED	S. D. Gnann
DRAWN	KRG
CHECKED	DGV SDG

March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

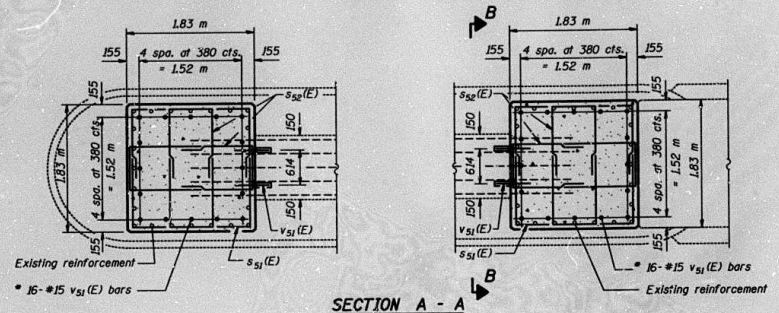
PIER 4
F.A. ROUTE 317 SECTION 15B-I-8
PEORIA & TAZEWELL COUNTIES
STATION 6 + 791.262

DWG. NO. F49

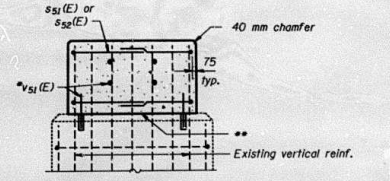
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEET NO.	SHEET NO.
FA 317	158-1-8	TAZEWELL	303	248
FED. ROAD DIST. NO. 9		ILLINOIS	FED. AID PROJECT-	

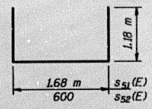
SHEET NO.
SHEETS



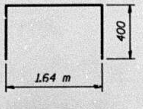
SECTION A - A



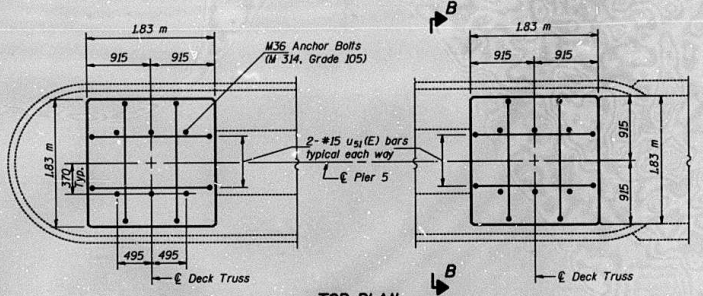
SECTION B - B



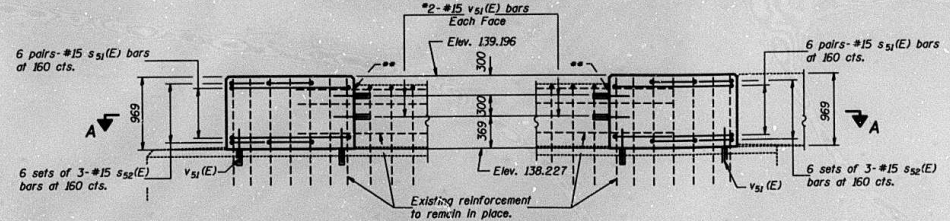
BARS $s_{51}(E)$ & $s_{52}(E)$



BAR $u_{51}(E)$



TOP PLAN



ELEVATION
(Looking East)

BILL OF MATERIAL - PIER 5

Bar	No.	Size	Length(m)	Shape
$v_{51}(E)$	40	#15	0.61	
$s_{51}(E)$	24	#15	4.04	U
$s_{52}(E)$	36	#15	2.96	U
$u_{51}(E)$	8	#15	2.44	⊓
Concrete Structures			m³	6.5
Reinforcement Bars, Epoxy Coated			kg	390

Notes:
All edges shall have standard 20 mm chamfer unless otherwise noted.
Space reinforcement in cap to miss anchor bolts.
Reinforcement bars designated (E) shall be epoxy coated.
Space drilled holes in existing cap to miss existing reinforcement.
Slope concrete away from bearing at 3 mm per 300 mm.
See Drawing F29 for Anchor Bolt installation.

* Epoxy grout $v_{51}(E)$ bars in 230 mm (min) drilled holes according to Section 584 of the Standard Specifications.

** Bonded Construction Joint

DESIGNED	D. Verhulst
CHECKED	S. D. Gnann
DRAWN	KRG
CHECKED	DGV SDG

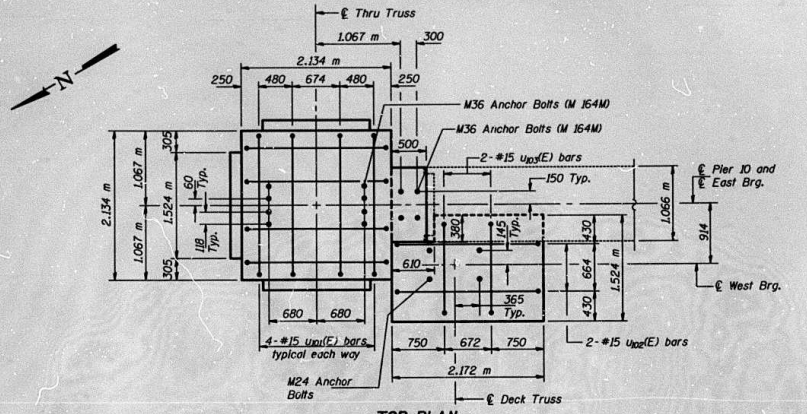
March 10, 1999
EXAMINED
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

PIER 5
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA & TAZEWELL COUNTIES
STATION 6 + 791.262

DWG. NO. F50

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 317	15B-1-8	TAZEWELL	303	249
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS

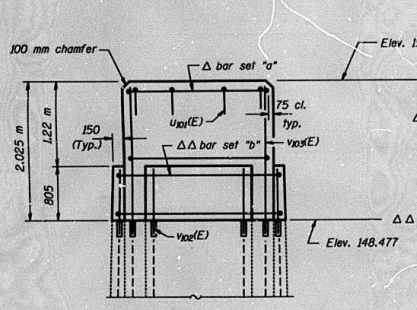
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



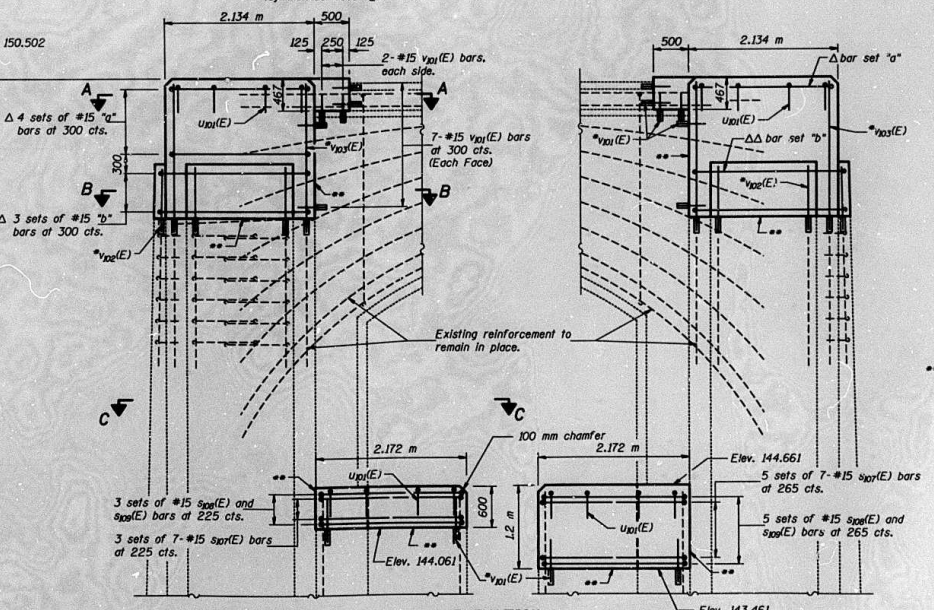
TOP PLAN
(Symmetrical about ℄ of Pier)

Δ Each set of "a" bars includes:
2-#15 s101(E)
2-#15 s102(E)
1-#15 s103(E)
1-#15 s104(E)
See Section A-A

ΔΔ Each set of "b" bars includes:
2-#15 s101(E)
1-#15 s104(E)
2-#15 s105(E)
1-#15 s106(E)
3-#15 s107(E)
See Section B-B



END VIEW



ELEVATION
(Looking East)

Notes:
All edges shall have standard 20 mm chamfer unless otherwise noted.
Space reinforcement in cap to miss anchor bolts.
Reinforcement bars designated (E) shall be epoxy coated.
Space drilled holes in existing cap to miss existing reinforcement.
Slope concrete away from bearing at 3 mm per 300 mm.
Work with Drawing F52.
See Drawing F29 for Anchor Bolt installation.

* Epoxy grout $v_{101}(E)$, $v_{102}(E)$ and $v_{103}(E)$ bars in 230 mm (min) drilled holes according to Section 584 of the Standard Specifications.

** Bonded Construction Joint

DESIGNED	D. Verhulst
CHECKED	S. D. Gnann
DRAWN	KRG
CHECKED	DGV SDG

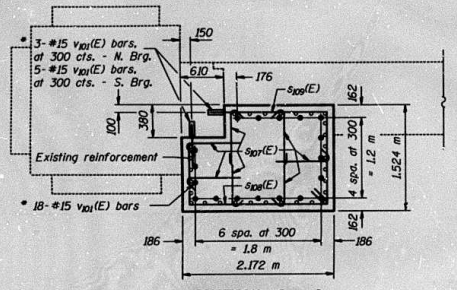
March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

PIER 10
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA & TAZEWELL COUNTIES
STATION 6 + 791.262

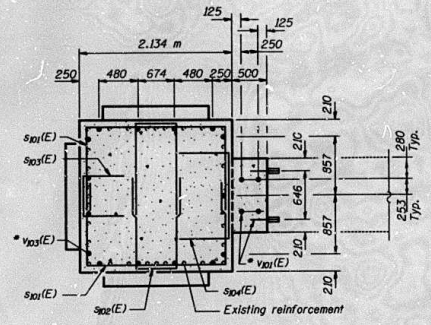
DWG. NO. F51

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

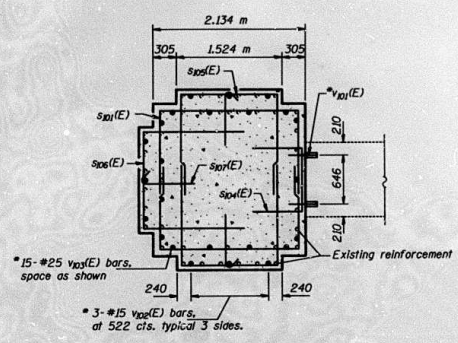
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 317	15B-1-8	TAZEWELL	307	252
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS



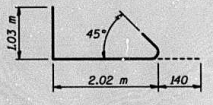
SECTION C - C



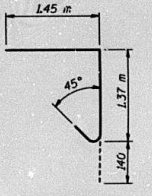
SECTION A - A



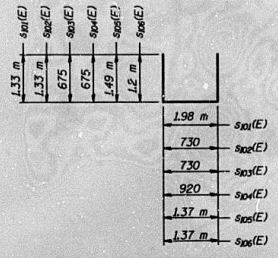
SECTION B - B



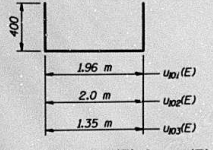
BAR $s_{108}(E)$



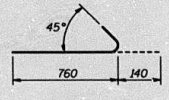
BAR $s_{109}(E)$



BAR $s_{101}(E)$, $s_{102}(E)$, $s_{103}(E)$, $s_{104}(E)$, $s_{105}(E)$ and $s_{106}(E)$



BAR $u_{101}(E)$, $u_{102}(E)$ & $u_{103}(E)$



BAR $s_{107}(E)$

BILL OF MATERIAL - PIER 10

Bar	No.	Size	Length(m)	Shape
$s_{101}(E)$	28	#15	4.64	
$s_{102}(E)$	16	#15	3.39	
$s_{103}(E)$	8	#15	2.08	
$s_{104}(E)$	14	#15	2.27	
$s_{105}(E)$	12	#15	4.35	
$s_{106}(E)$	6	#15	3.77	
$s_{107}(E)$	74	#15	0.90	
$s_{108}(E)$	8	#15	3.19	
$s_{109}(E)$	8	#15	2.96	
$u_{101}(E)$	16	#15	2.76	
$u_{102}(E)$	4	#15	2.80	
$u_{103}(E)$	4	#15	2.15	
$v_{101}(E)$	88	#15	0.61	
$v_{102}(E)$	18	#15	0.78	
$v_{103}(E)$	30	#25	2.20	
Concrete Structures		m3	25.6	
Reinforcement Bars, Epoxy Coated		kg	1140	

DESIGNED	D. Verhulst
CHECKED	S. D. Gnann
DRAWN	KRG
CHECKED	DGV SDG

March 10, 1999
EXAMINED — ENGINEER OF BRIDGE DESIGN
PASSED — ENGINEER OF BRIDGES AND STRUCTURES

PIER 10 DETAILS
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA & TAZEWELL COUNTIES
STATION 6 + 791.262

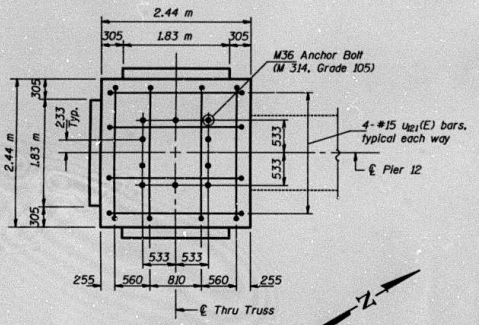
DWG. NO. F52

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

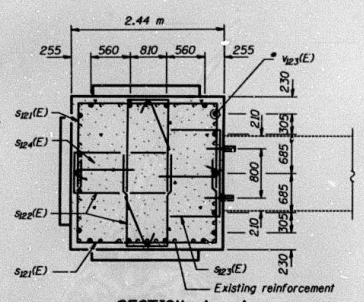
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FA 317	15B-1-8	TAZEWELL	303	251
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Δ Each set of "a" bars includes:
2-#15 $s_{121}(E)$
3-#15 $s_{122}(E)$
1-#15 $s_{123}(E)$
4-#15 $s_{124}(E)$
See Section A-A

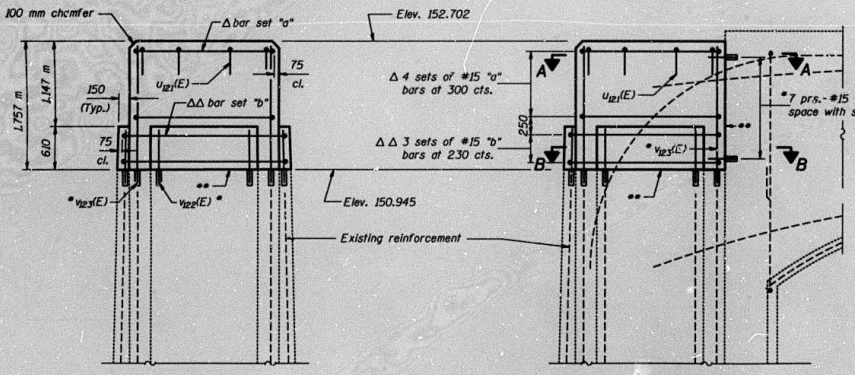
ΔΔ Each set of "b" bars includes:
2-#15 $s_{121}(E)$
1-#15 $s_{122}(E)$
1-#15 $s_{124}(E)$
2-#15 $s_{125}(E)$
2-#15 $s_{126}(E)$
3-#15 $s_{127}(E)$
See Section B-B



TOP PLAN

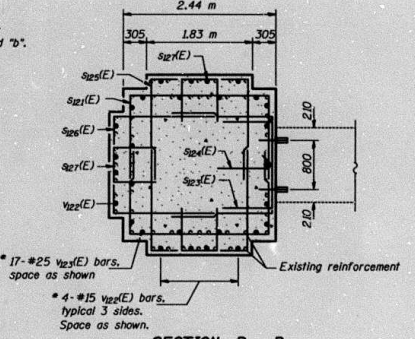


SECTION A - A

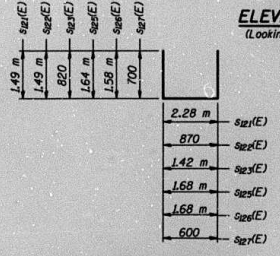


END VIEW

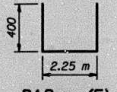
ELEVATION
(Looking West)



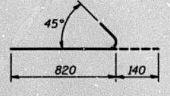
SECTION B - B



BAR $s_{121}(E)$, $s_{122}(E)$, $s_{123}(E)$, $s_{125}(E)$, $s_{126}(E)$ and $s_{127}(E)$



BAR $u_{121}(E)$



BAR $s_{124}(E)$

BILL OF MATERIAL - PIER 12

Bar	No.	Size	Length(m)	Shape
$s_{121}(E)$	14	#15	5.26	⊔
$s_{122}(E)$	12	#15	3.85	⊔
$s_{123}(E)$	7	#15	3.06	⊔
$s_{124}(E)$	19	#15	0.96	⊔
$s_{125}(E)$	6	#15	4.96	⊔
$s_{126}(E)$	6	#15	4.84	⊔
$s_{127}(E)$	9	#15	2.00	⊔
$u_{121}(E)$	8	#15	3.05	⊔
$v_{121}(E)$	14	#15	0.61	—
$v_{122}(E)$	12	#15	0.80	—
$v_{123}(E)$	17	#25	1.90	—
Concrete Structures			m³	11.0
Reinforcement Bars, Epoxy Coated			kg	560

Notes:
All edges shall have standard 20 mm chamfer unless otherwise noted.
Space reinforcement in cap to miss anchor bolts.
Reinforcement bars designated (E) shall be epoxy coated.
Space drilled holes in existing cap to miss existing reinforcement.
Slope concrete away from bearing at 3 mm per 300 mm.
See Drawing F29 for Anchor Bolt installation.

* Epoxy grout $v_{121}(E)$, $v_{122}(E)$ and $v_{123}(E)$ bars in 230 mm (min) drilled holes according to Section 584 of the Standard Specifications.

** Bonded Construction Joint

DESIGNED	D. Verhulst
CHECKED	S. D. Gnann
DRAWN	KRG
CHECKED	DGV SDG

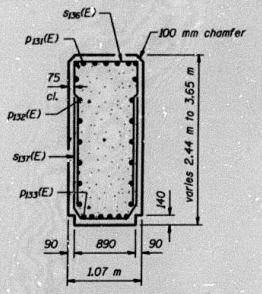
March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

PIER 12
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA & TAZEWELL COUNTIES
STATION 6 + 791.262

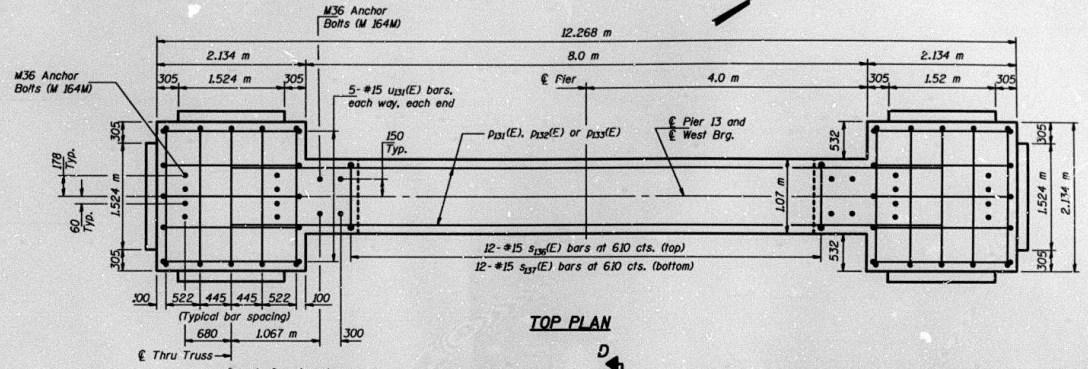
DWG. NO. F53

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

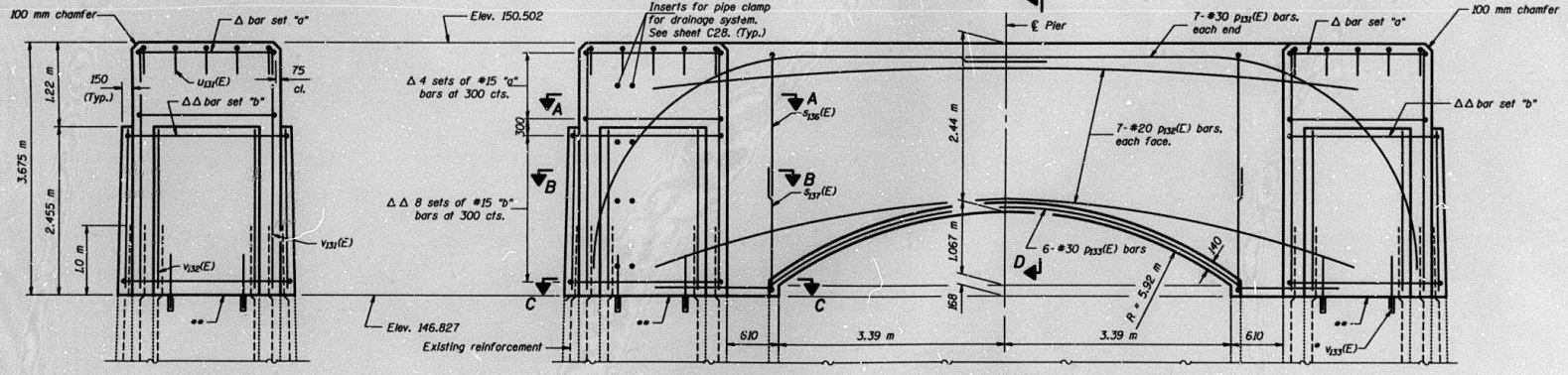
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 317	15B-1-8	TAZEWELL	303	252
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		SHEETS



SECTION D - D



TOP PLAN



END VIEW

ELEVATION
(Looking West)

Δ Each set of "a" bars includes:
2-#15 $s_{131}(E)$
2-#15 $s_{135}(E)$
1-#15 $s_{133}(E)$
3-#15 $s_{134}(E)$
See Section A-A

ΔΔ Each set of "b" bars includes:
2-#15 $s_{131}(E)$
3-#15 $s_{132}(E)$
1-#15 $s_{133}(E)$
3-#15 $s_{135}(E)$
See Section B-B

Notes:
All edges shall have standard 20 mm chamfer unless otherwise noted.
Space reinforcement in cap to miss anchor bolts.
Reinforcement bars designated (E) shall be epoxy coated.
Space drilled holes in existing cap to miss existing reinforcement.
Slope concrete away from bearing at 3 mm per 300 mm.
See Drawing F29 for Anchor Bolt installation.

* Epoxy grout $v_{133}(E)$ bars in 230 mm (min) drilled holes according to Section 584 of the Standard Specifications.

** Bonded Construction Joint

DESIGNED	D. Verhulst
CHECKED	S. D. Gnann
DRAWN	KRG
CHECKED	DGV SDG

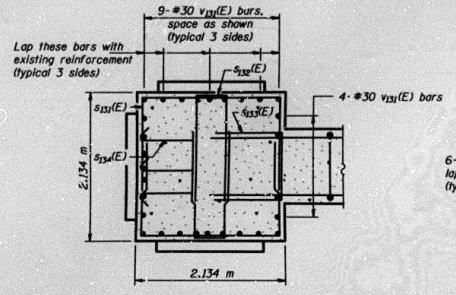
March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

PIER 13
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA & TAZEWELL COUNTIES
STATION 6 + 791.262

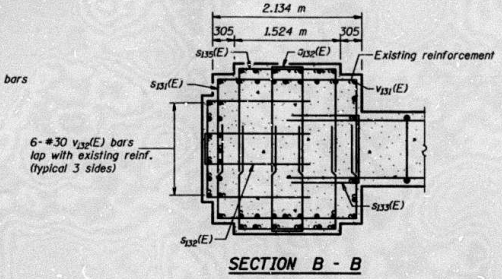
DWG. NO. F54

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

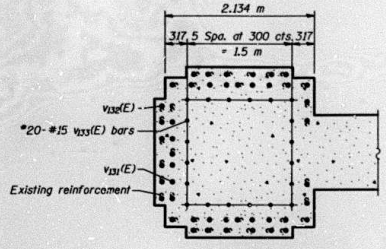
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 317	15B-1-8	TAZEWELL	303	253
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT=		SHEETS



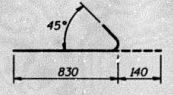
SECTION A - A



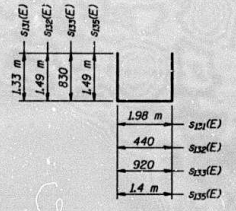
SECTION B - B



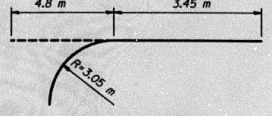
SECTION C - C



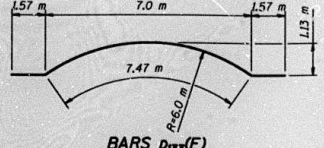
BAR $s_{134}(E)$



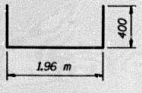
BAR $s_{131}(E)$, $s_{132}(E)$, $s_{133}(E)$ & $s_{135}(E)$



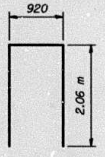
BARS $p_{131}(E)$



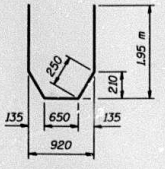
BARS $p_{133}(E)$



BARS $u_{131}(E)$



BARS $s_{136}(E)$



BARS $s_{137}(E)$

BILL OF MATERIAL - PIER 13

Bar	No.	Size	Length(m)	Shape
$p_{131}(E)$	14	#30	8.25	
$p_{132}(E)$	14	#20	10.14	
$p_{133}(E)$	6	#30	10.61	
$s_{131}(E)$	48	#15	4.64	
$s_{132}(E)$	64	#15	3.42	
$s_{133}(E)$	24	#15	2.58	
$s_{134}(E)$	24	#15	0.97	
$s_{135}(E)$	48	#15	4.38	
$s_{136}(E)$	12	#15	5.04	
$s_{137}(E)$	12	#15	4.63	
$u_{131}(E)$	20	#15	2.76	
$v_{131}(E)$	58	#30	3.58	
$v_{132}(E)$	36	#30	2.36	
$v_{133}(E)$	40	#15	0.61	
Concrete Structures			m3	61.7
Reinforcement Bars, Epoxy Coated			kg	4390

DESIGNED	D. Verhulst
CHECKED	S. D. Gnann
DRAWN	KRG
CHECKED	DGV SDG

March 10, 1999
EXAMINED: Engineer of Bridge Design
PASSED: Engineer of Bridges and Structures

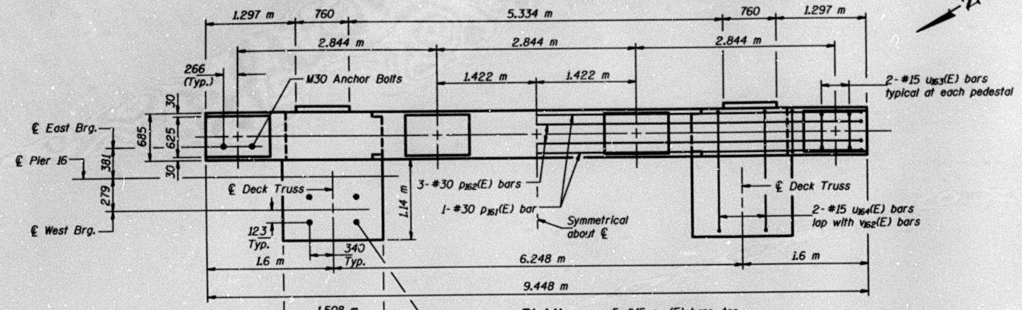
PIER 13 DETAILS
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA & TAZEWELL COUNTIES
STATION 6 + 791.262

DWG. NO. F55

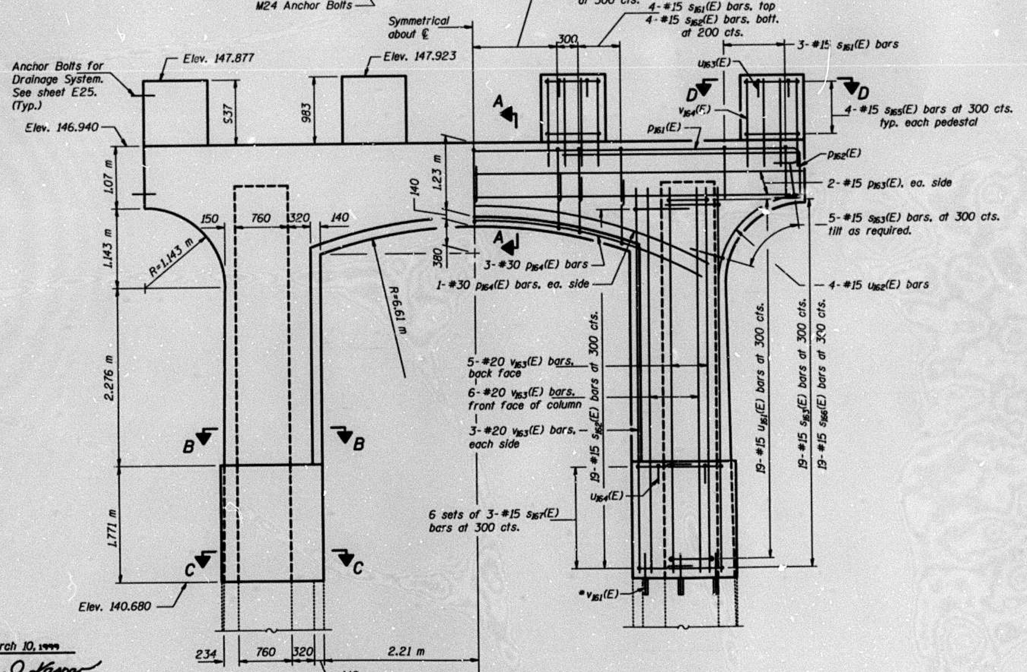
D C B A 0 A B C

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 317	15B-1-8	TAZEWELL	307	254

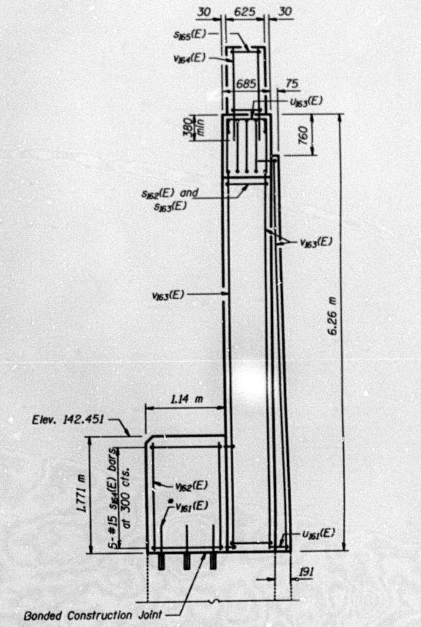
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN



ELEVATION
(Looking East)



END VIEW
(Looking North)

Notes:
All edges shall have standard 20 mm chamfer unless otherwise noted.
Space reinforcement in cap to miss anchor bolts.
Reinforcement bars designated (E) shall be epoxy coated.
Space drilled holes in existing cap to miss existing reinforcement.
Slope concrete away from bearing at 3 mm per 300 mm.
Work with Drawing F57.
• Epoxy grout v_{161}(E) bars in 230 mm (min.) drilled holes according to Section 584 of the Standard Specifications.
See Drawing F29 for Anchor Bolt installation.

DESIGNED	D. Verhulst
CHECKED	S. D. Gnann
DRAWN	KRG
CHECKED	DGV SDG

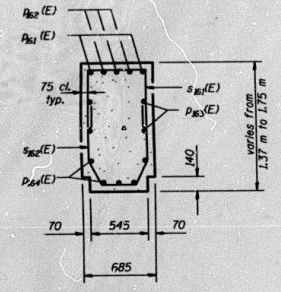
March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Ralph E. Anderson, Engineer of Bridges and Structures

PIER 16
F.A. ROUTE 317 SECTION 15B-I-8
PEORIA & TAZEWELL COUNTIES
STATION 6 + 791.262

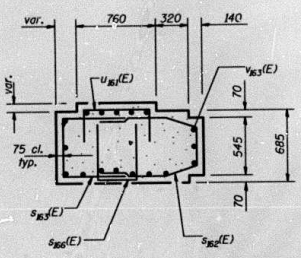
DWG. NO. F56

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

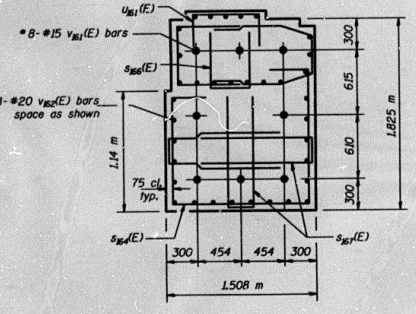
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 317	15B-1-B	TAZEWELL	303	258
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		SHEETS



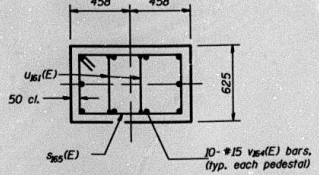
SECTION A - A



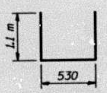
SECTION B - B



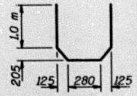
SECTION C - C



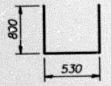
SECTION D - D



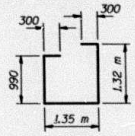
BAR s_{161}(E)



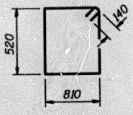
BAR s_{162}(E)



BAR s_{163}(E)



BAR s_{164}(E)



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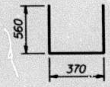
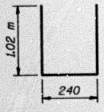
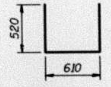


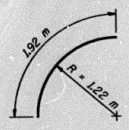
BAR s_{166}(E)



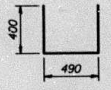
BAR s_{167}(E)



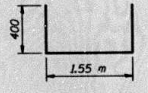
BAR u_{161}(E)



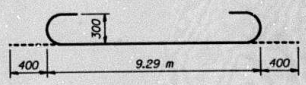
BAR u_{162}(E)



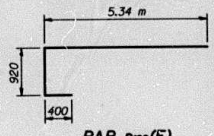
BAR u_{163}(E)



BAR u_{164}(E)



BAR p_{161}(E)



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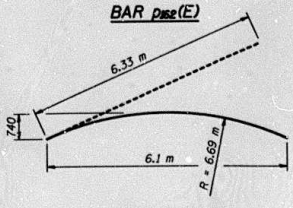


BAR p_{164}(E)

BILL OF MATERIAL - PIER 16

Bar	No.	Size	Length(m)	Shape
p_{161}(E)	2	#30	10.09	
p_{162}(E)	6	#30	6.66	
p_{163}(E)	4	#15	9.30	
p_{164}(E)	5	#30	6.33	
s_{161}(E)	23	#15	2.73	
s_{162}(E)	55	#15	2.76	
s_{163}(E)	48	#15	2.13	
s_{164}(E)	10	#15	4.26	
s_{165}(E)	16	#15	2.94	
s_{166}(E)	38	#15	1.49	
s_{167}(E)	36	#15	2.28	
u_{161}(E)	38	#15	1.65	
u_{162}(E)	8	#15	1.92	
u_{163}(E)	8	#15	1.29	
u_{164}(E)	4	#15	2.35	
v_{161}(E)	16	#15	0.61	
v_{162}(E)	36	#20	1.57	
v_{163}(E)	34	#20	5.35	
v_{164}(E)	40	#15	1.29	
Concrete Structures		m³	27.7	
Reinforcement Bars, Epoxy Coated		kg	2240	

DESIGNED	D. Verhulst
CHECKED	S. D. Gnann
DRAWN	KRG
CHECKED	DGV SDG

March 10, 1999
EXAMINED Craig D. Kasper, ENGINEER OF BRIDGE DESIGN
PASSED Richard E. Anderson, ENGINEER OF BRIDGES AND STRUCTURES

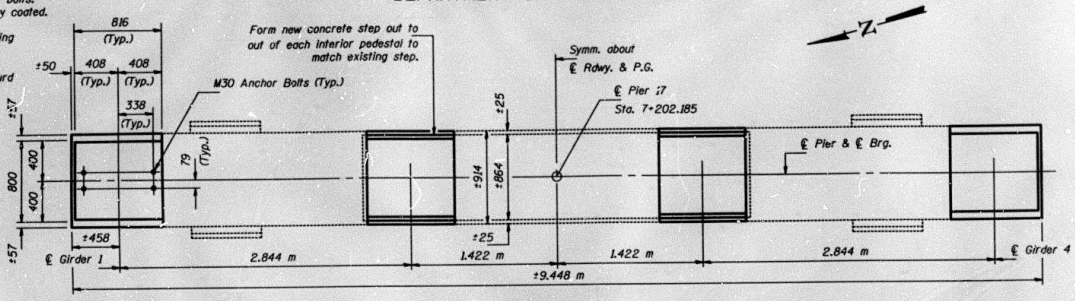
PIER 16 DETAILS
F.A. ROUTE 317 SECTION 15B-1-B
PEORIA & TAZEWELL COUNTIES
STATION 6 + 791.262

DWG. NO. F57

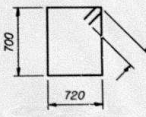
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	303	256
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS

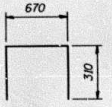
Notes: For Anchor Bolt installation details see Drawing F29.
Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing cap to miss existing reinforcement.
* Epoxy grout #15 $v_{171}(E)$ bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.



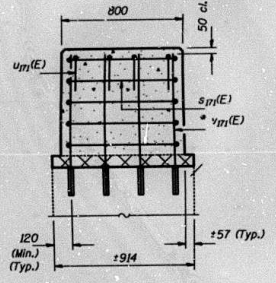
TOP PLAN



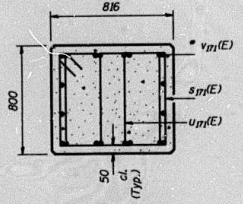
BAR $s_{171}(E)$



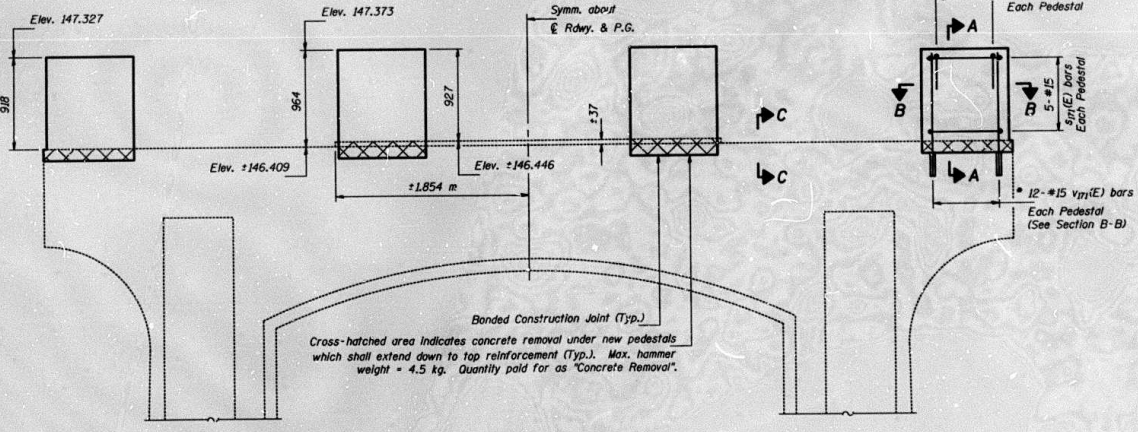
BAR $u_{171}(E)$



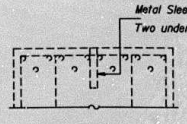
SECTION A-A
(Reinforcement Typ. Each Pedestal)



SECTION B-B
(Typ. Each Pedestal)



ELEVATION
(Looking East)



SECTION C-C
(Existing reinforcement from existing plans - for information only.)

BILL OF MATERIAL

Bar	No.	Size	Length m	Shape
$s_{171}(E)$	20	#15	3.12	□
$u_{171}(E)$	16	#15	1.29	⊓
$v_{171}(E)$	48	#15	1.22	—
Concrete Structures			m^3	2.7
Reinforcement Bars, Epoxy Coated			kg	220
Concrete Removal			m^3	0.2

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

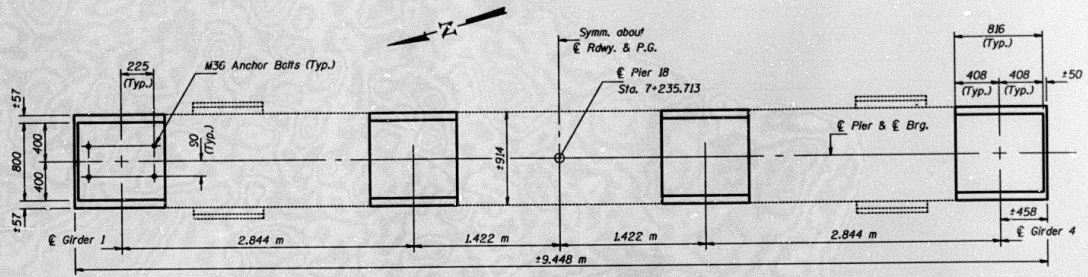
PIER 17
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

DWG. NO. F58

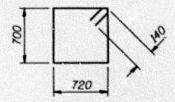
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. 317	15B-1-8	PEORIA & TAZEWELL	303	257	SHEET NO.
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			SHEETS

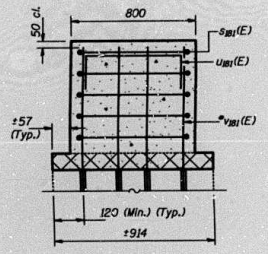
Notes: For Anchor Bolt installation details see Drawing F29.
Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing cap to miss existing reinforcement.
* Epoxy grout #15 v_{B1}(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.



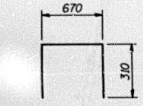
TOP PLAN



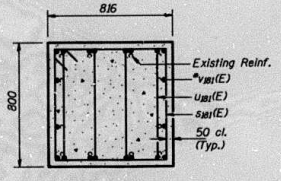
BAR s_{B1}(E)



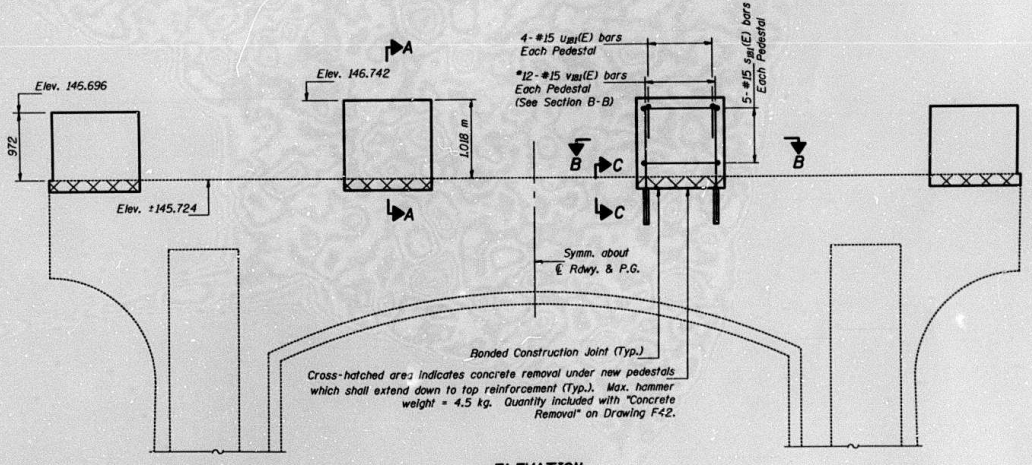
SECTION A-A
(Typ. each pedestal.)



BAR u_{B1}(E)



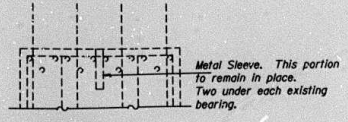
SECTION B-B
(Typ. each pedestal.)



ELEVATION
(Looking East)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
s_{B1}(E)	20	#15	3.12	
u_{B1}(E)	16	#15	1.29	
v_{B1}(E)	48	#15	1.28	
Concrete Structures			m^3	2.8
Reinforcement Bars, Epoxy Coated			kg	230



SECTION C-C
(Existing reinforcement from existing plans - for information only.)

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.d.c. DRAWN	John F. Schaeller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

PIER 18
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

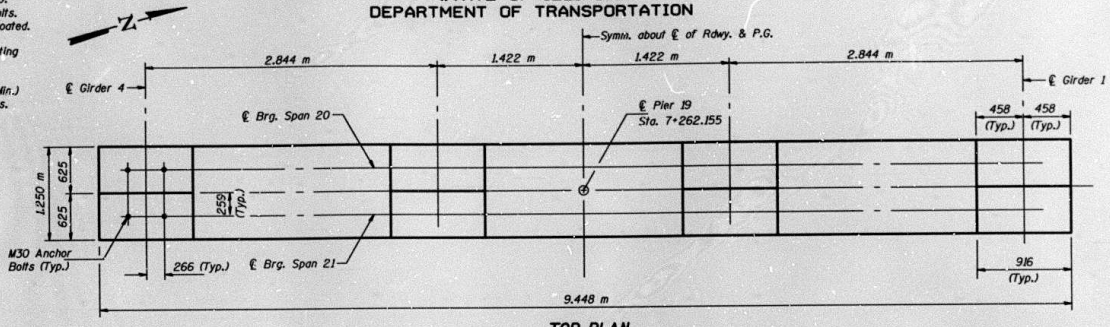
DWG. NO. F59

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	303	258
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

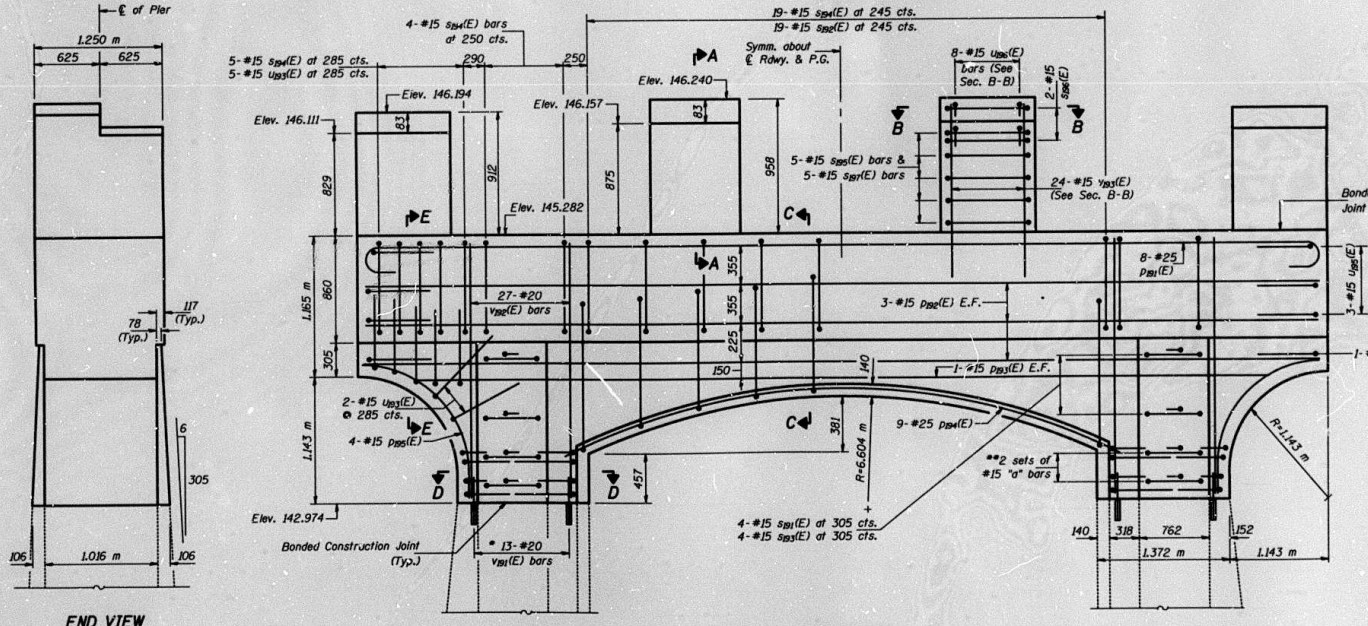
SHEET NO. SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:
For Anchor Bolt installation details see Drawing F29.
Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing columns to miss existing reinforcement.
Work with Drawing F61.
* Epoxy grout #15 v_{S1}(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.



TOP PLAN



END VIEW

ELEVATION
(Looking West)

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.b.c. DRAWN	John F. Schaeller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED Engineer of Bridge and Structures
PASSED Engineer of Bridges and Structures

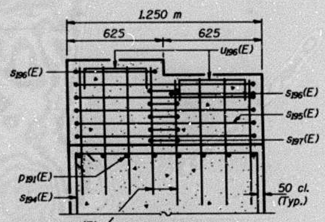
PIER 19
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

DWG. NO. F60

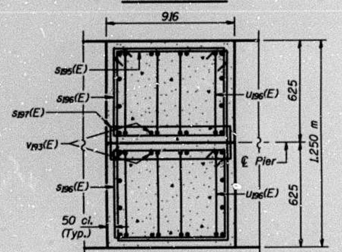
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-I-8	PEORIA & TAZEWELL	303	259

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

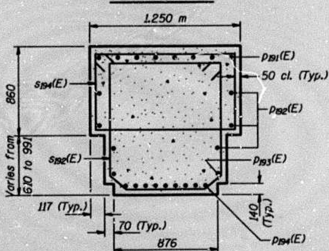
Notes: Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing columns to miss existing reinforcement.
Work with Drawing F60.
* Epoxy grout #15 v_{191}(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.



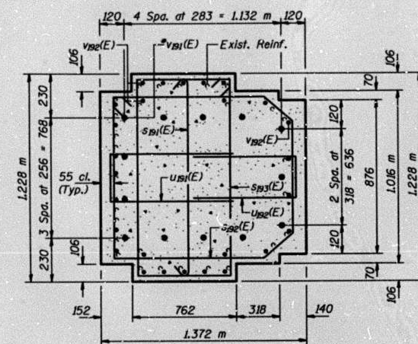
SECTION A-A



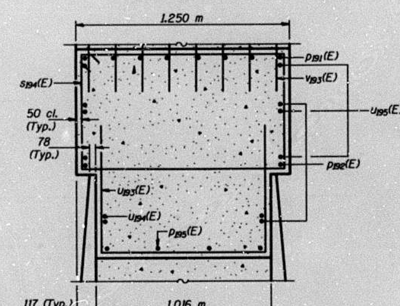
SECTION B-B



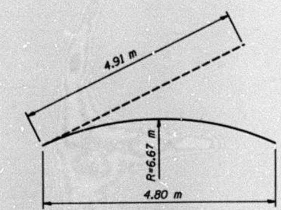
SECTION C-C



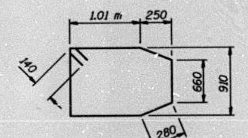
SECTION D-D



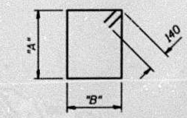
SECTION E-E



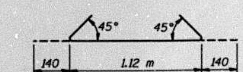
BAR p_{194}(E)



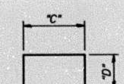
BAR s_{192}(E)



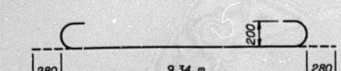
BARS s_{193}(E) thru s_{196}(E)
(See Table A)



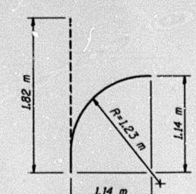
BAR s_{191}(E)



BAR u_{191}(E) thru u_{196}(E)
(See Table B)



BAR p_{191}(E)



BAR p_{195}(E)

TABLE A

Bar	Dim. "A" (m)	Dim. "B" (m)
s_{193}(E)	1.12	0.65
s_{194}(E)	1.76	1.15
s_{195}(E)	0.81	1.15
s_{196}(E)	0.81	0.52
s_{197}(E)	0.81	0.21

TABLE B

Bar	Dim. "C" (m)	Dim. "D" (m)
u_{191}(E)	0.30	1.11
u_{192}(E)	0.27	0.79
u_{193}(E)	0.91	0.80
u_{194}(E)	0.88	0.78
u_{195}(E)	1.12	0.78
u_{196}(E)	0.49	0.31

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
p_{191}(E)	8	#25	9.90	
p_{192}(E)	6	#15	9.34	
p_{193}(E)	2	#15	8.67	
p_{194}(E)	9	#25	4.91	
p_{195}(E)	8	#15	1.82	
s_{191}(E)	12	#15	1.40	
s_{192}(E)	23	#15	4.43	
s_{193}(E)	12	#15	3.82	
s_{194}(E)	37	#15	6.10	
s_{195}(E)	20	#15	4.20	
s_{196}(E)	8	#15	2.94	
s_{197}(E)	20	#15	2.32	
u_{191}(E)	4	#15	2.52	
u_{192}(E)	4	#15	1.85	
u_{193}(E)	14	#15	2.51	
u_{194}(E)	2	#15	2.44	
u_{195}(E)	6	#15	2.68	
u_{196}(E)	32	#15	1.11	
v_{191}(E)	26	#20	0.87	
v_{192}(E)	54	#20	2.20	
v_{193}(E)	96	#15	1.29	
Concrete Structures			m^3	23.2
Reinforcement Bars, Epoxy Coated			kg	2060

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.b.c. DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED [signature] ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

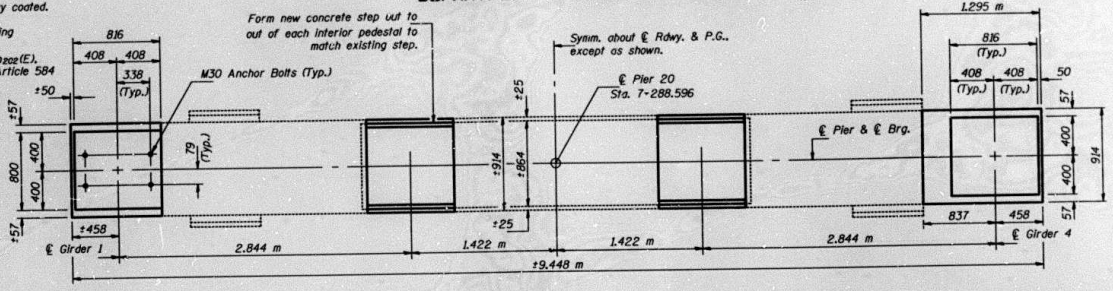
PIER 19 DETAILS
F.A. ROUTE 317 SECTION 15B-I-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

DWG. NO. F61

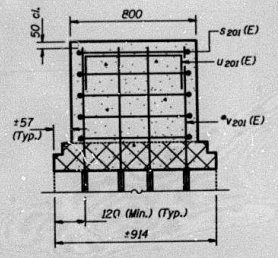
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	303	260
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

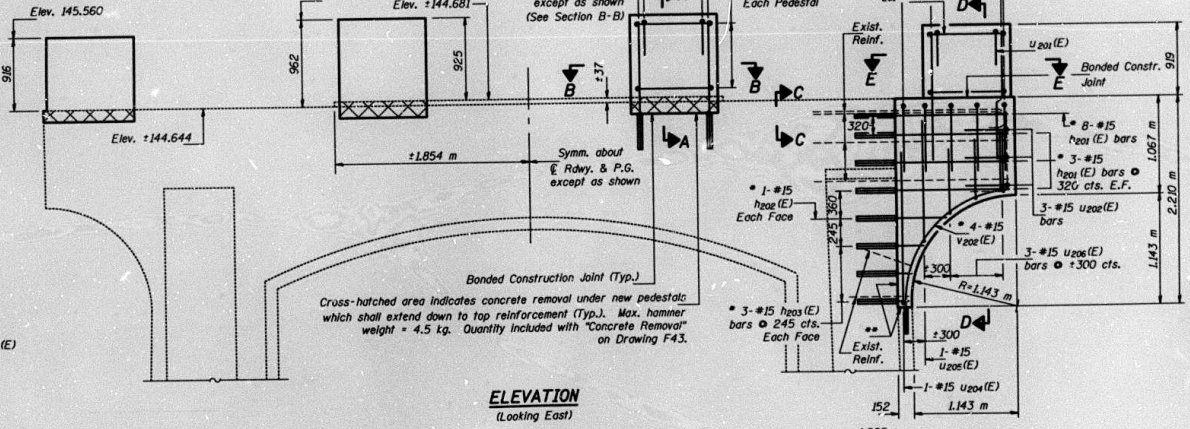
Notes:
For Anchor Bolt installation details see Drawing F29.
Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing cap to miss existing reinforcement.
* Epoxy grout #15 v_{201}(E), v_{202}(E) and h_{201} (E), h_{202}(E), h_{203}(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.



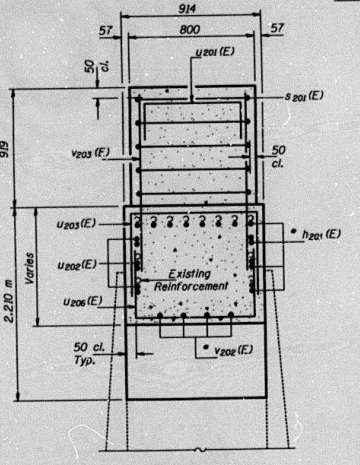
TOP PLAN



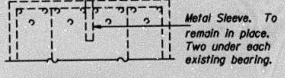
SECTION A-A
(Reinforcement Typ. each pedestal except as shown.)



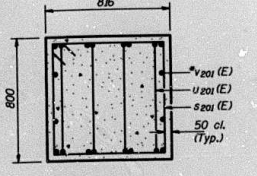
ELEVATION
(Looking East)



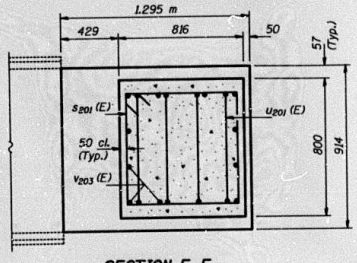
SECTION D-D



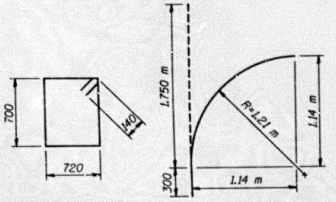
SECTION C-C
(Existing reinforcement from existing plans - for information only.)



SECTION B-B
(Typ. each pedestal except as shown.)

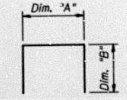


SECTION E-E



BAR s_{201} (E)

BAR v_{202}(E)



BARS u_{201} (E) thru u_{206} (E)
(See Table A)

TABLE A

Bar	Dim. "A" (m)	Dim. "B" (m)
u_{201}(E)	.67	.31
u_{202}(E)	.63	.78
u_{203}(E)	.82	.96
u_{204}(E)	.82	1.79
u_{205}(E)	.82	1.10
u_{206}(E)	.82	.80

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h_{201}(E)	14	#15	1.48	
h_{202}(E)	2	#15	0.83	
h_{203}(E)	6	#15	0.53	
s_{201} (E)	20	#15	3.12	
u_{201}(E)	16	#15	1.29	
u_{202}(E)	3	#15	2.19	
u_{203}(E)	5	#15	2.74	
u_{204}(E)	1	#15	4.40	
u_{205}(E)	1	#15	3.02	
u_{206}(E)	3	#15	2.42	
v_{201}(E)	36	#15	1.22	
v_{202}(E)	4	#15	2.05	
v_{203}(E)	12	#15	1.39	
Concrete Structures			m^3	4.3
Reinforcement Bars, Epoxy Coated			kg	330

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.b.c. DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

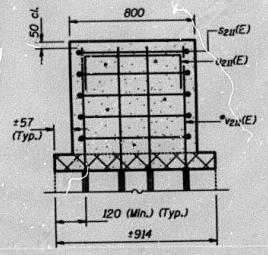
PIER 20
F.A. ROUTE 317 SECTION 15B-I-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

DWG. NO. F62

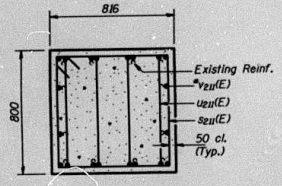
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEETS
F.A. 317	15B-1-8	PEORIA & TAZEWELL	303	261

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

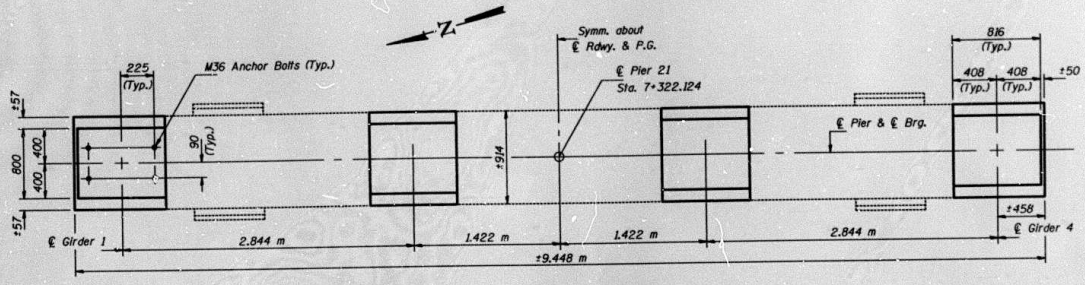
Notes: For Anchor Bolt installation details see Drawing F29.
Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing cap to miss existing reinforcement.
* Epoxy grout #15 v_{21}(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.



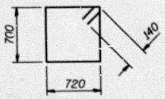
SECTION A-A
(Typ. each pedestal.)



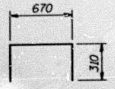
SECTION B-B
(Typ. each pedestal.)



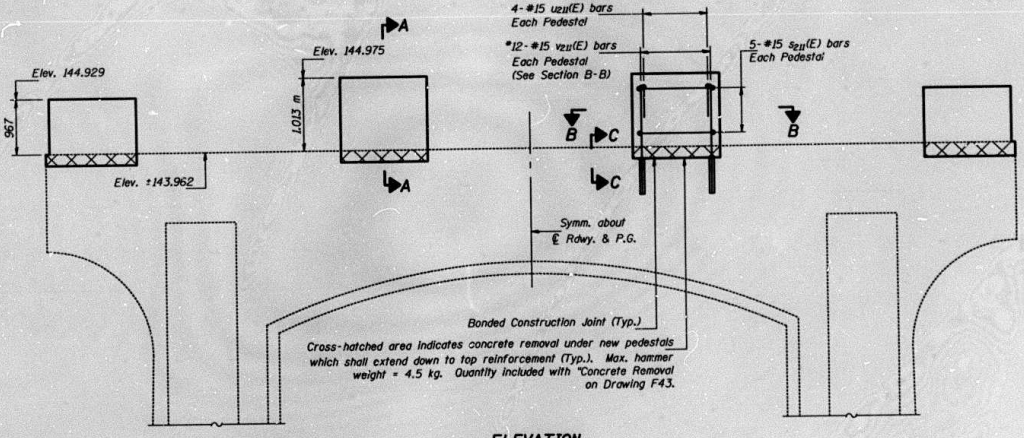
TOP PLAN



BAR s_{21}(E)



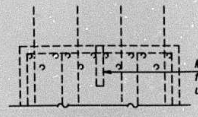
BAR u_{21}(E)



ELEVATION
(Looking East)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
s_{21}(E)	20	#15	3.12	
u_{21}(E)	16	#15	1.29	
v_{21}(E)	48	#15	1.27	
Concrete Structures		m^3	2.8	
Reinforcement Bars, Epoxy Coated		kg	230	



SECTION C-C
(Existing reinforcement from existing plans - for information only.)

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.d.c. DRAWN	John F. Schaeller Jr.
CHECKED	S.E.M. S.D.G.

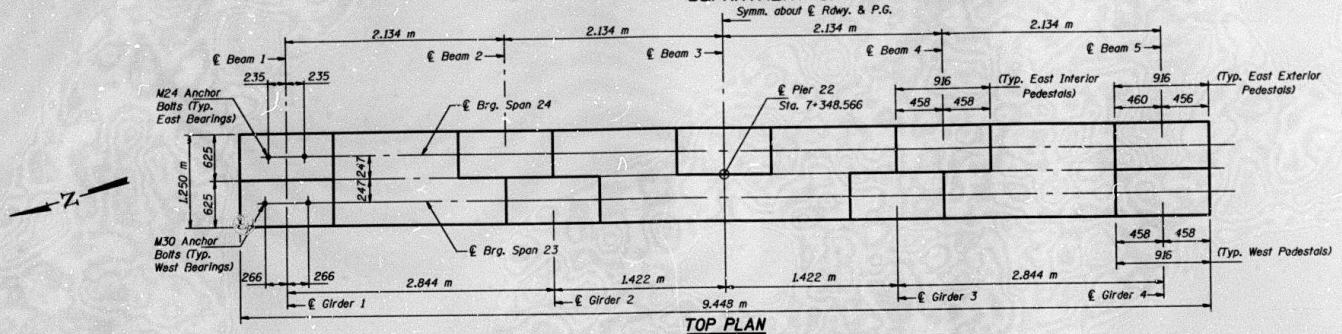
March 10, 1999
EXAMINED
PASSED
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

PIER 21
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

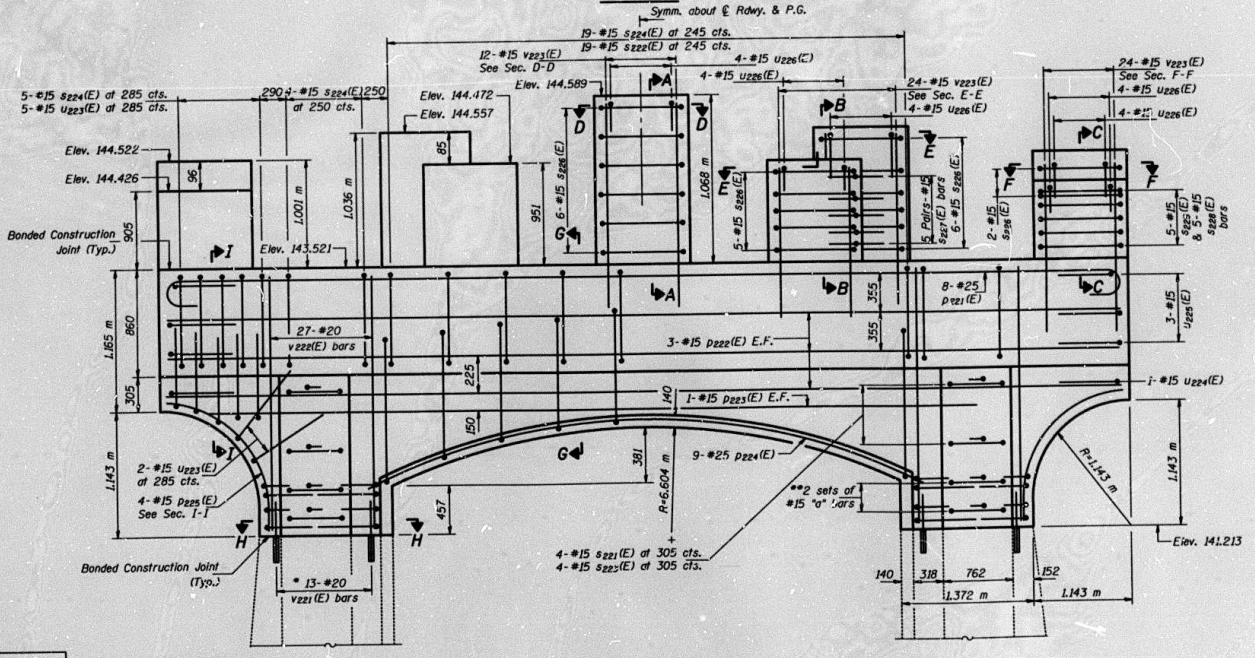
DWG. NO. F63

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

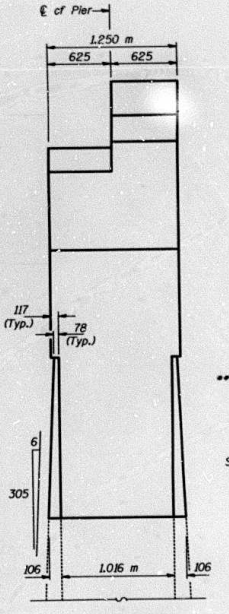
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	303	262
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS



TOP PLAN



ELEVATION
(Looking East)



END VIEW

Notes:
For Anchor Bolt installation details see Drawing F29.
Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing columns to miss existing reinforcement.
Work with Drawings F65 & F66.
* Epoxy grout #15 v221 (E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.

** Each Set of "a" bars includes:
1 #15 s221(E)
1 #15 s222(E)
1 #15 s223(E)
1 #15 u221(E)
1 #15 u222(E)
See Section H-H.

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.d.c. DRAWN	John F. Schaeller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

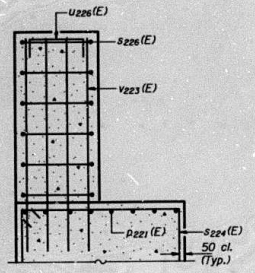
PIER 22
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

DWG. NO. F64

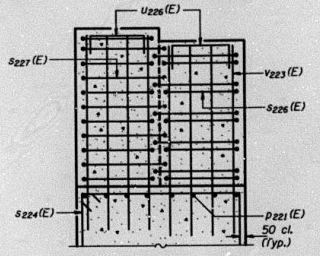
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	303	263
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS

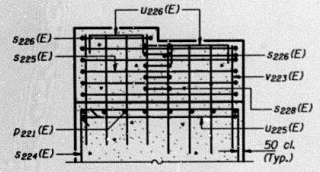
Notes: Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing columns to miss existing reinforcement.
Work with Drawings F64 & F66.
* Epoxy grout #15 V221 (E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.



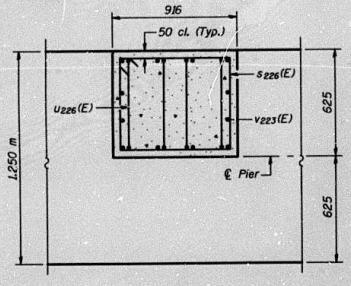
SECTION A-A



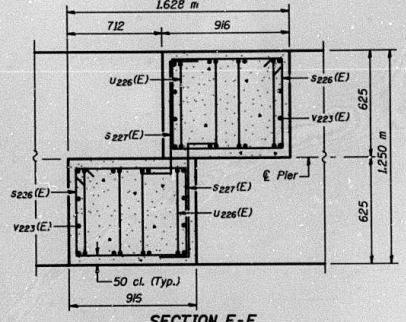
SECTION B-B



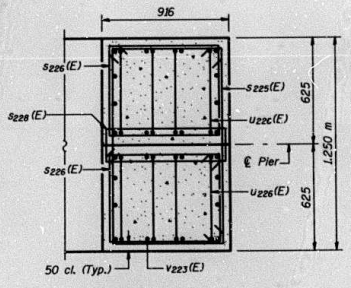
SECTION C-C



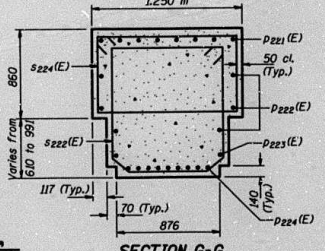
SECTION D-D



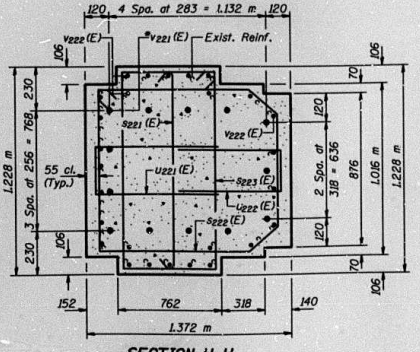
SECTION E-E



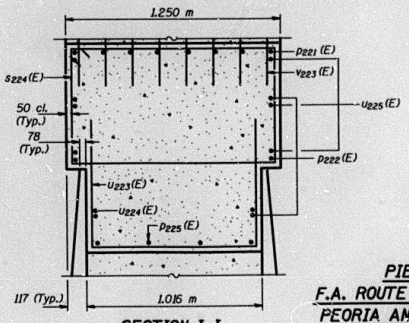
SECTION F-F



SECTION G-G



SECTION H-H



SECTION I-I

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.d.c. DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

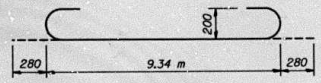
PIER 22 DETAILS
F.A. ROUTE 317 SECTION 15B-I-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

DWG. NO. F65

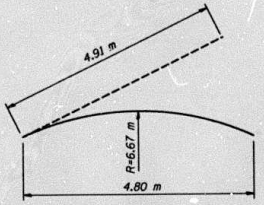
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	303	266
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

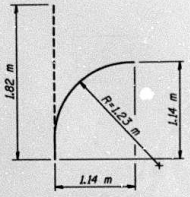
Notes: Reinforcement Bars designated (E) shall be epoxy coated.
Work with Drawings F64 & F65.



BAR p_{221}(E)



BAR p_{224}(E)



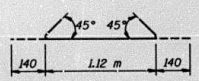
BAR p_{225}(E)

TABLE A

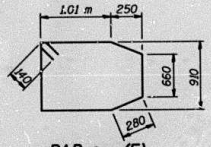
Bar	Dim. "A" (m)	Dim. "B" (m)
s_{223}(E)	1.12	0.65
s_{224}(E)	0.76	1.15
s_{225}(E)	0.81	1.15
s_{226}(E)	0.81	0.52
s_{228}(E)	0.81	0.21

TABLE B

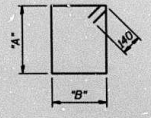
Bar	Dim. "C" (m)	Dim. "D" (m)
u_{221}(E)	0.30	1.11
u_{222}(E)	0.27	0.79
u_{223}(E)	0.91	0.80
u_{224}(E)	0.88	0.78
u_{225}(E)	1.12	0.78
u_{226}(E)	0.49	0.31



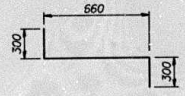
BAR s_{221}(E)



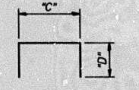
BAR s_{222}(E)



BARS s_{223}(E) thru s_{226}(E)
(See Table A)



BAR s_{227}(E)



BAR u_{221}(E) thru u_{226}(E)
(See Table B)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
p_{221}(E)	8	#25	9.90	
p_{222}(E)	6	#15	9.34	
p_{223}(E)	2	#15	8.67	
p_{224}(E)	9	#25	4.91	
p_{225}(E)	8	#15	1.82	
s_{221}(E)	12	#15	1.40	
s_{222}(E)	23	#15	4.43	
s_{223}(E)	12	#15	3.82	
s_{224}(E)	37	#15	4.10	
s_{225}(E)	10	#15	4.20	
s_{226}(E)	32	#15	2.94	
s_{227}(E)	20	#15	1.26	
s_{228}(E)	10	#15	2.32	
u_{221}(E)	4	#15	2.52	
u_{222}(E)	4	#15	1.85	
u_{223}(E)	14	#15	2.51	
u_{224}(E)	2	#15	2.44	
u_{225}(E)	6	#15	2.68	
u_{226}(E)	36	#15	1.11	
v_{221}(E)	26	#20	0.87	
v_{222}(E)	54	#20	2.20	
v_{223}(E)	108	#15	1.40	
Concrete Structures		m^3		24.2
Reinforcement Bars, Epoxy Coated		kg		2160

DESIGNED S. Moynihan
CHECKED S.D. Gnann
r.b.c.
DRAWN John F. Schneller Jr.
CHECKED S.E.M. S.D.G.

March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

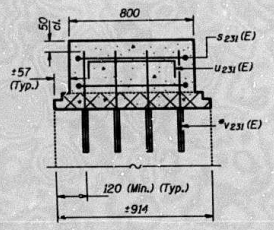
PIER 22 DETAILS
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

DWG. NO. F66

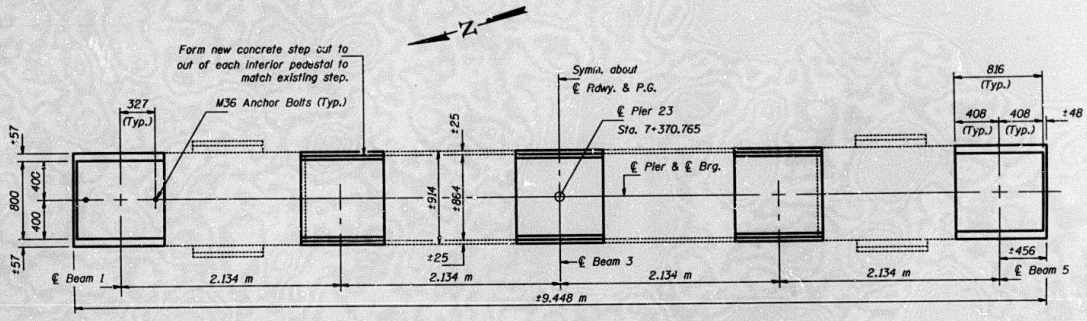
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	303	269
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS

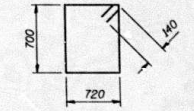
Notes: For Anchor Bolt installation details see Drawing F29.
Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing cap to miss existing reinforcement.
* Epoxy grout #15 v_{231}(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.



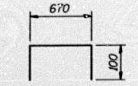
SECTION A-A
(Reinforcement Typ. each pedestal.)



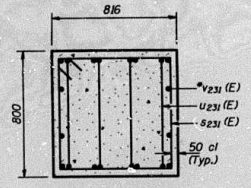
TOP PLAN



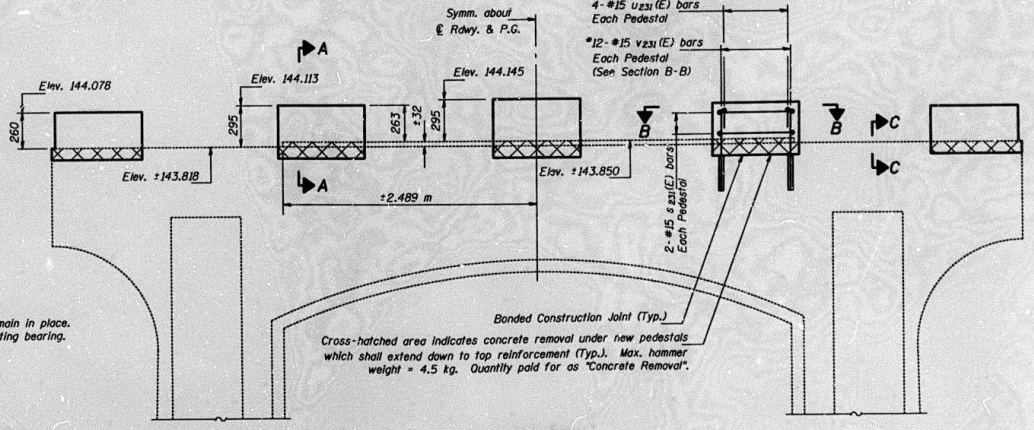
BAR s_{231} (E)



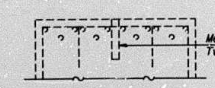
BAR u_{231} (E)



SECTION B-B
(Typ. each pedestal.)



ELEVATION
(Looking East)



SECTION C-C
(Existing reinforcement from existing plans - for information only.)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
s_{231} (E)	10	#15	3.12	
u_{231} (E)	20	#15	0.87	
v_{231} (E)	60	#15	0.59	
Concrete Structures		m^3	1.2	
Reinforcement Bars, Epoxy Coated		kg	130	
Concrete Removal		m^3	0.2	

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.b.c. DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

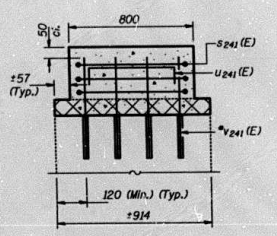
PIER 23
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

DWG. NO. F67

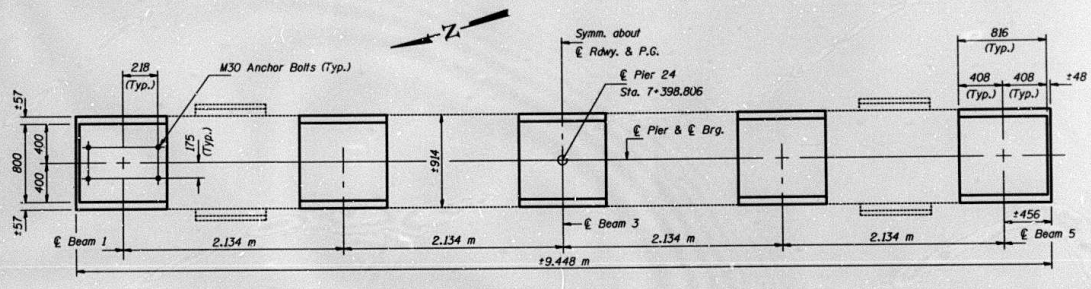
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	309	266
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

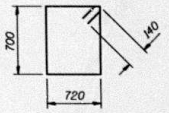
Notes: For Anchor Bolt installation details see Drawing F29.
Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing cap to miss existing reinforcement.
* Epoxy grout #15 v_{241}(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.



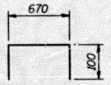
SECTION A-A
(Typ. each pedestal.)



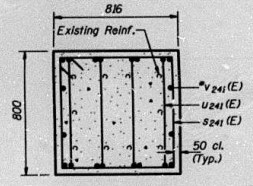
TOP PLAN



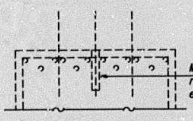
BAR s241 (E)



BAR u241 (E)



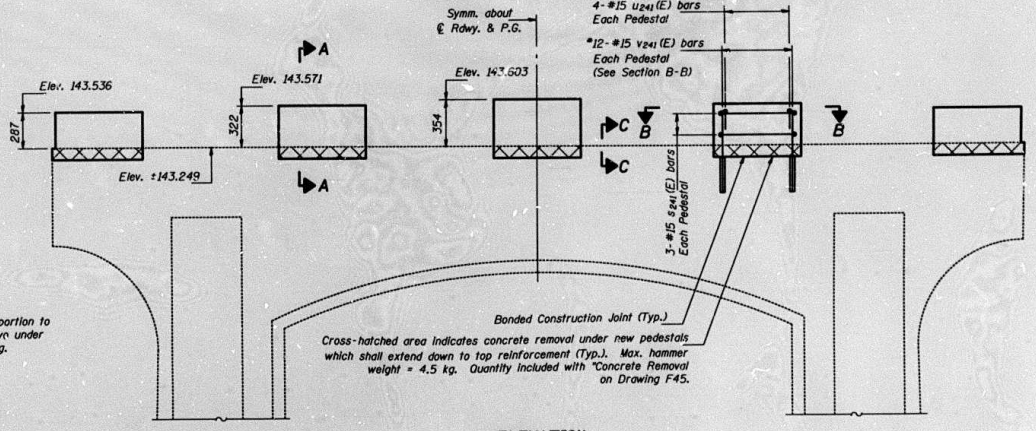
SECTION B-B
(Typ. each pedestal.)



Metal Sleeve. This portion to remain in place. Two under each existing bearing.

SECTION C-C

(Existing reinforcement from existing plans - for information only.)



ELEVATION
(Looking East)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
s241 (E)	15	#15	3.12	
u241 (E)	20	#15	0.87	
v241 (E)	60	#15	0.61	
Concrete Structures			m^3	1.3
Reinforcement Bars, Epoxy Coated			kg	160

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.b.c. DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

PIER 24
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

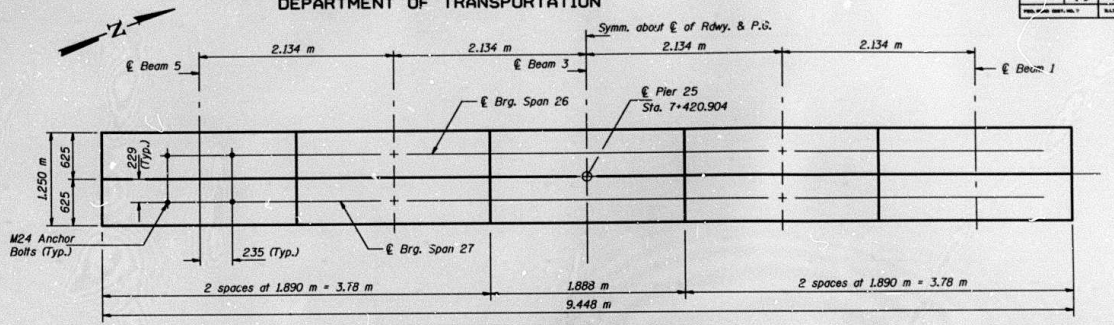
DWG. NO. F68

D C B A 0 A B C

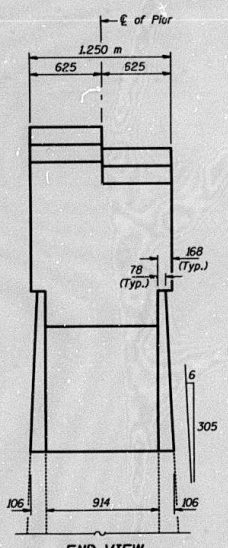
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	303	267
PROJ. PLAN SHEET NO. ?	ILLINOIS	PROJECT:		SHEETS

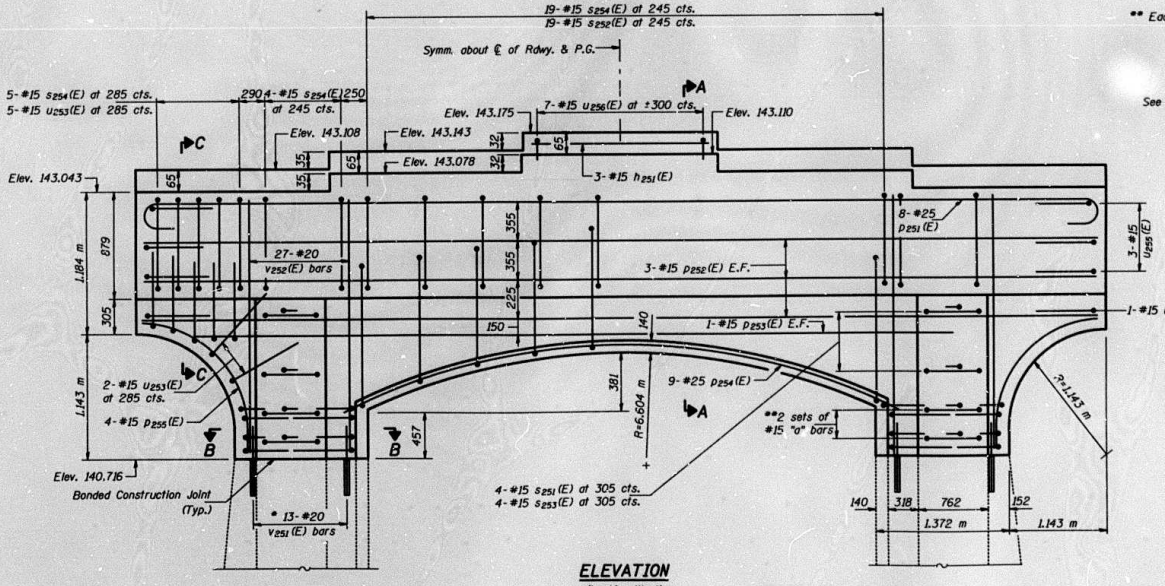
Notes:
For Anchor Bolt installation details see Drawing F29.
Space reinforcement in cap to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing columns to miss existing reinforcement.
Work with Drawing F70.
* Epoxy grout #15 v_{251}(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.



TOP PLAN



END VIEW
(Looking North)



ELEVATION
(Looking West)

** Each set of "a" bars include:
1-#15 s_{251}(E)
1-#15 s_{252}(E)
1-#15 s_{253}(E)
1-#15 u_{251}(E)
1-#15 u_{252}(E)
See Section B-B.

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.d.c. DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED Greg J. Hagen, ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson, ENGINEER OF BRIDGES AND STRUCTURES

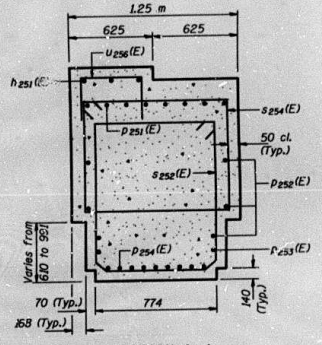
PIER 25
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

DWG. NO. F69

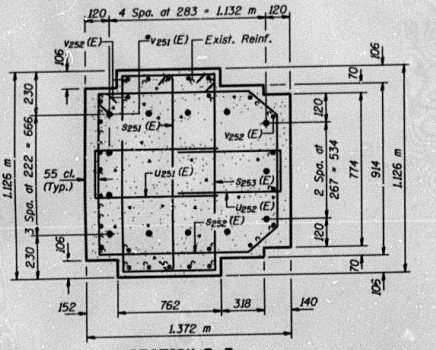
STATE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-I-8	PEORIA & TAZEWELL	303	268
FED. ROAD DIST. NO. 7				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

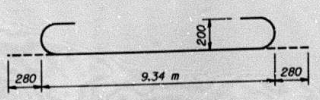
Notes: Space reinforcement in cup to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing columns to miss existing reinforcement.
Work with Drawing F69.
* Epoxy grout #15 s_{251}(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.



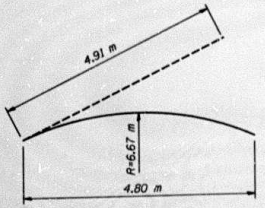
SECTION A-A



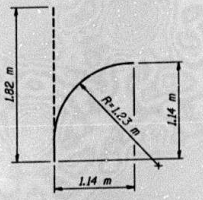
SECTION B-B



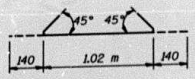
BAR p_{251}(E)



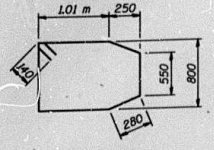
BAR p_{254}(E)



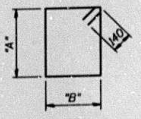
BAR p_{255}(E)



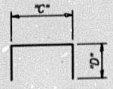
BAR s_{251}(E)



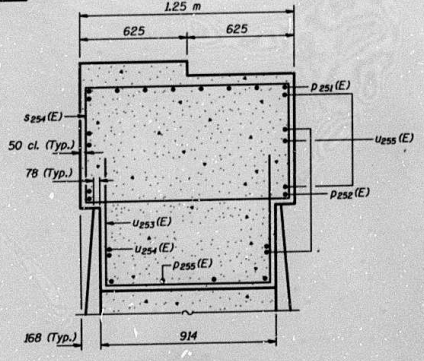
BAR s_{252}(E)



BARS s_{253}(E) & s_{254}(E)
(See Table A)



BAR u_{251}(E) thru u_{256}(E)
(See Table B)



SECTION C-C

TABLE A

Bar	Dim. "A" (m)	Dim. "B" (m)
s_{253}(E)	1.02	0.65
s_{254}(E)	0.78	1.15

TABLE B

Bar	Dim. "C" (m)	Dim. "D" (m)
u_{251}(E)	0.26	1.11
u_{252}(E)	0.23	0.79
u_{253}(E)	0.81	0.80
u_{254}(E)	0.78	0.78
u_{255}(E)	1.12	0.78
u_{256}(E)	0.51	0.30

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h_{251}(E)	3	#15	1.78	
p_{251}(E)	8	#25	9.90	
p_{252}(E)	6	#15	9.34	
p_{253}(E)	2	#15	8.67	
p_{254}(E)	9	#25	4.91	
p_{255}(E)	8	#15	1.82	
s_{251}(E)	12	#15	1.30	
s_{252}(E)	23	#15	4.21	
s_{253}(E)	12	#15	3.62	
s_{254}(E)	37	#15	4.14	
u_{251}(E)	4	#15	2.48	
u_{252}(E)	4	#15	1.81	
u_{253}(E)	14	#15	2.41	
u_{254}(E)	2	#15	2.34	
u_{255}(E)	6	#15	2.68	
u_{256}(E)	7	#15	1.11	
v_{251}(E)	26	#20	0.87	
v_{252}(E)	54	#20	2.20	
Concrete Structures		m^3	19.1	
Reinforcement Bars, Epoxy Coated		kg	1570	

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.b.c. DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999

EXAMINED Engineer of Bridge Design

PASSED Engineer of Bridges and Structures

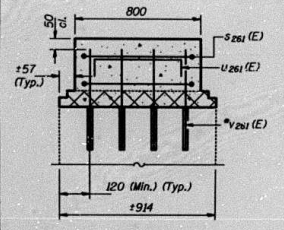
PIER 25 DETAILS
F.A. ROUTE 317 SECTION 15B-I-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

DWG. NO. F70

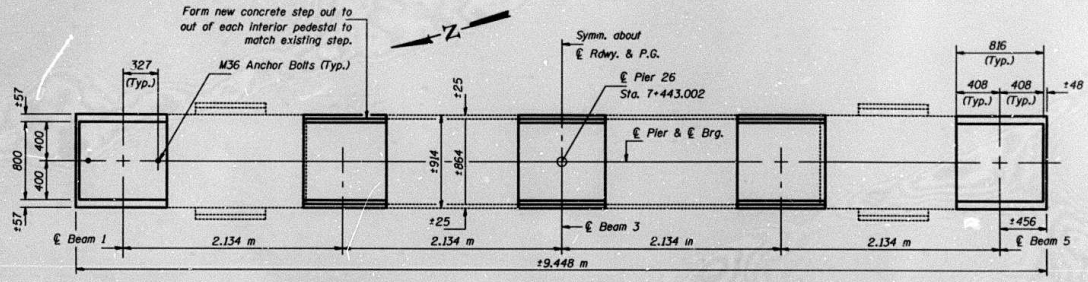
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	303	29
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		SHEETS

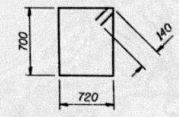
Notes: For Anchor Bolt installation details see Drawing F29.
Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing cap to miss existing reinforcement.
* Epoxy grout #15 v_{261}(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.



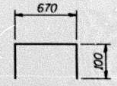
SECTION A-A
(Reinforcement Typ. each pedestal.)



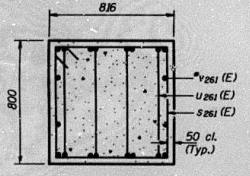
TOP PLAN



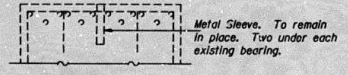
BAR s_{261} (E)



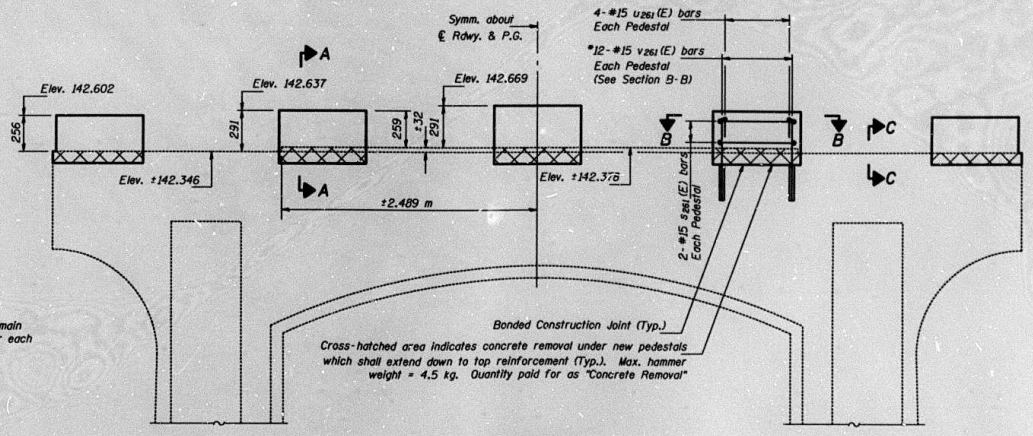
BAR u_{261} (E)



SECTION B-B
(Typ. each pedestal.)



SECTION C-C
(Existing reinforcement from existing plans - for information only.)



ELEVATION
(Looking East)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
s_{261} (E)	10	#15	3.12	
u_{261} (E)	20	#15	0.87	
v_{261} (E)	60	#15	0.58	
Concrete Structures		m³	1.2	
Reinforcement Bars, Epoxy Coated		kg	130	
Concrete Removal		m³	0.2	

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.b.c. DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

PIER 26
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

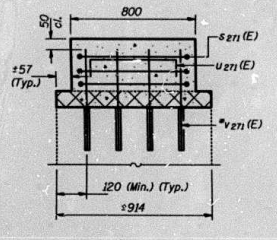
DWG. NO. F71

Notes: For Anchor Bolt installation details see Drawing F29.
Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing cap to miss existing reinforcement.
* Epoxy grout #15 v_{271}(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.

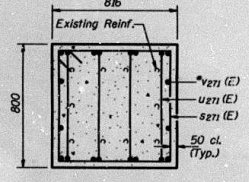
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	307	270
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT:	

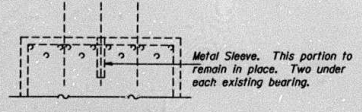
SHEET NO.
SHEETS



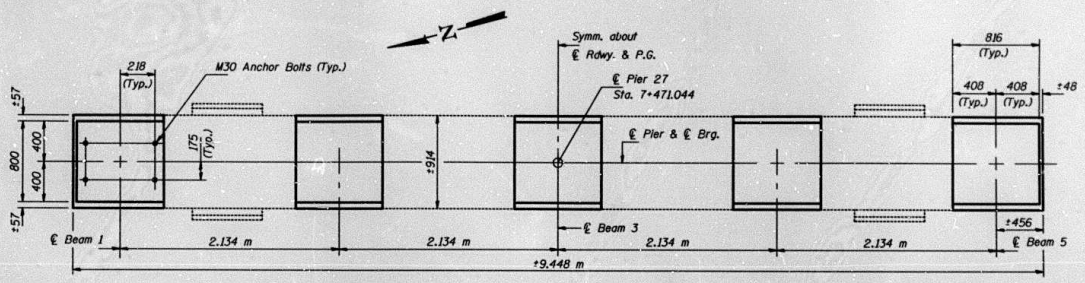
SECTION A-A
(Typ. each pedestal.)



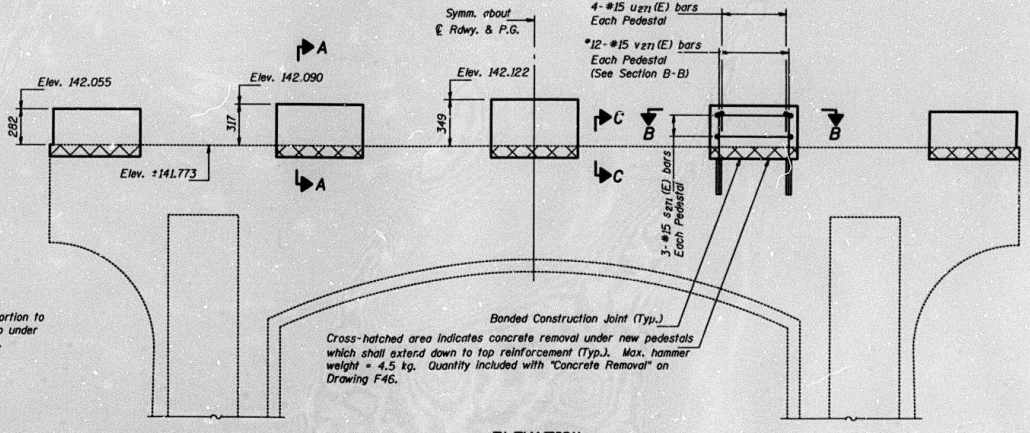
SECTION B-B
(Typ. each pedestal.)



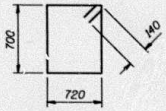
SECTION C-C
(Existing reinforcement from existing plans - for information only.)



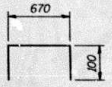
TOP PLAN



ELEVATION
(Looking East)



BAR s_{271}(E)



BAR u_{271}(E)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
s_{271}(E)	15	#15	3.12	
u_{271}(E)	20	#15	0.87	
v_{271}(E)	60	#15	0.61	
Concrete Structures			m^3	1.3
Reinforcement Bars, Epoxy Coated			kg	160

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.b.c.	
DRAWN	John F. Schaeller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED by Engineer of Bridge Design
PASSED Ralph E. Anderson
Engineer of Bridges and Structures

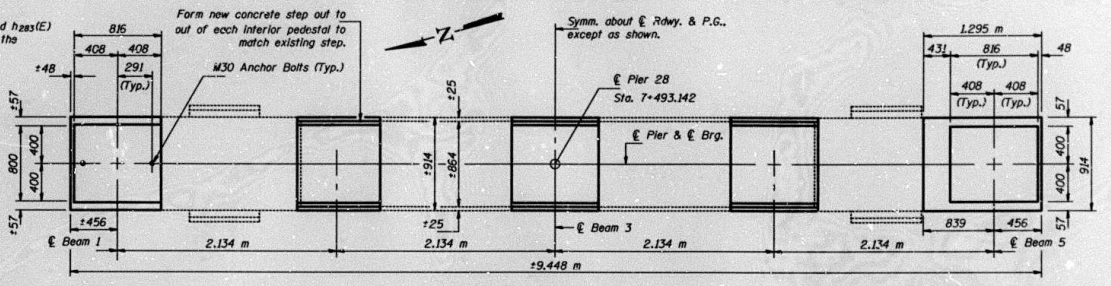
PIER 27
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

DWG. NO. F72

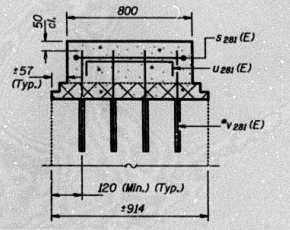
Notes: For Anchor Bolt Installation details see Drawing F29.
Space reinforcement in pedestals to miss anchor bolts.
Reinforcement Bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
Space drilled holes in existing cap to miss existing reinforcement.
* Epoxy grout #15 v_{281}(E), v_{282}(E), h_{281}(E), h_{282}(E) and h_{283}(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-B	PEORIA & TAZEWELL	303	270
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		SHEETS

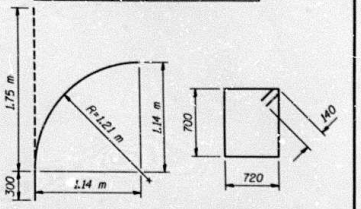


TOP PLAN



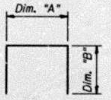
SECTION A-A

(Reinforcement Typ. each pedestal except as shown.)



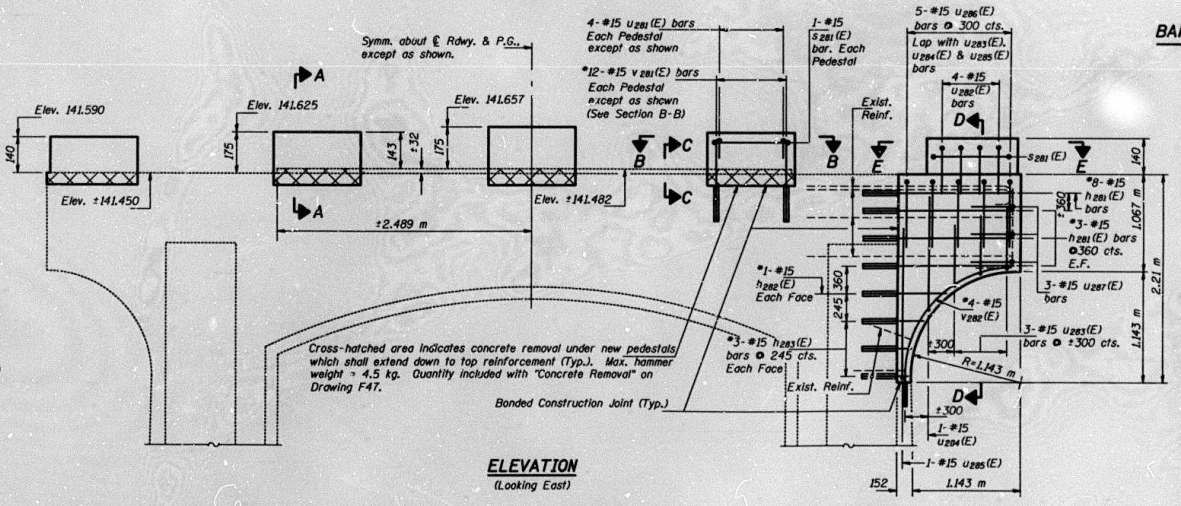
BAR v_{282}(E)

BAR s_{281}(E)



BAR u_{281}(E) thru u_{287}(E)

(See Table A)



Cross-hatched area indicates concrete removal under new pedestals which shall extend down to top reinforcement (Typ.). Max. hammer weight = 4.5 kg. Quantity included with "Concrete Removal" on Drawing F47.

ELEVATION

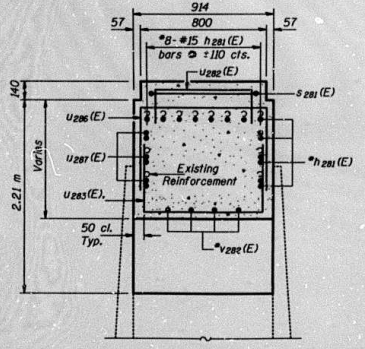
(Looking East)

TABLE A

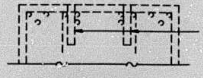
Bar	Dim. "A" (m)	Dim. "B" (m)
u_{281}(E)	.67	.10
u_{282}(E)	.67	.33
u_{283}(E)	.82	.80
u_{284}(E)	.82	1.10
u_{285}(E)	.82	1.79
u_{286}(E)	.82	.96
u_{287}(E)	.63	.78

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h_{281}(E)	14	#15	1.48	
h_{282}(E)	2	#15	0.83	
h_{283}(E)	6	#15	0.53	
s_{281}(E)	5	#15	3.12	D
s'_{281}(E)	16	#15	0.87	E
u_{282}(E)	4	#15	1.33	E
u_{283}(E)	3	#15	2.42	E
u_{284}(E)	1	#15	3.02	E
u_{285}(E)	1	#15	4.40	E
u_{286}(E)	5	#15	2.74	E
u_{287}(E)	3	#15	2.19	E
v_{281}(E)	48	#15	0.48	
v_{282}(E)	4	#15	2.05	
Concrete Structures		m^3	2.5	
Reinforcement Bars, Epoxy Coated		kg	200	



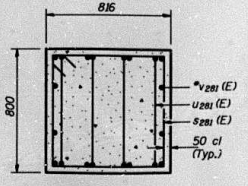
SECTION D-D



Metal Sleeve. To remain in place. Two under each existing bearing.

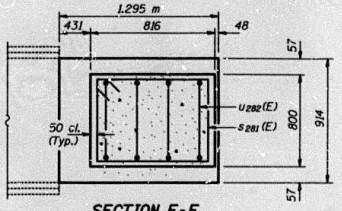
SECTION C-C

(Existing reinforcement from existing plans - for information only.)



SECTION B-B

(Typ. each pedestal except as shown.)



SECTION E-E

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.b.c. DRAWN	John F. Schneller Jr.
CHECKED	S.F.M. S.D.G.

March 10, 1999

EXAMINED Engineer of Bridge Design

PASSED Engineer of Bridges and Structures

PIER 28
F.A. ROUTE 317 SECTION 15B-1-B
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

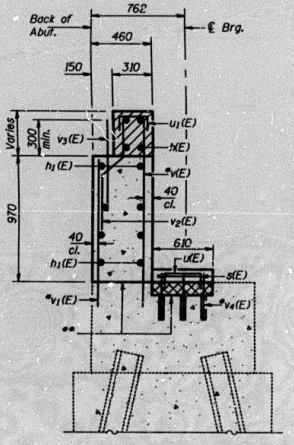
DWG. NO. F73

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

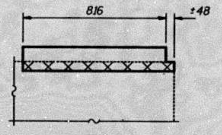
F.A. 317	15B-I-8	PEORIA & TAZEWELL	303	272

SHEET NO.
SHEETS

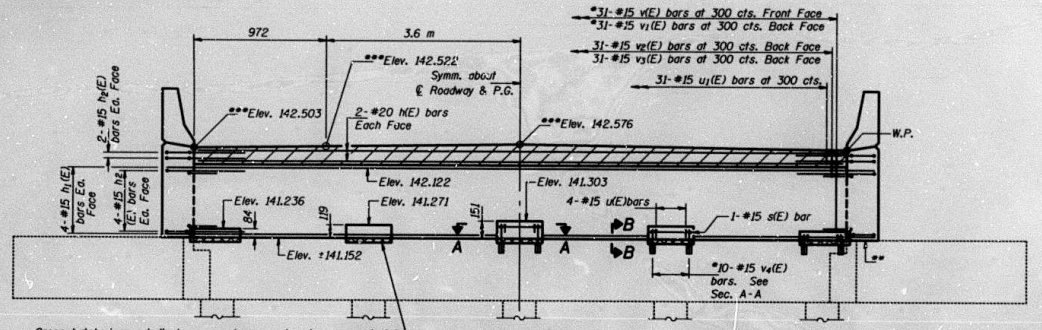
Notes:
All edges shall have standard 20 mm chamfers.
Work with Drawings F75 & F76.
Space reinforcement in pedestals to miss anchor bolts.
Reinforcement bars designated (E) shall be epoxy coated.
For Anchor Bolt installation details see Drawing F29.
Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with "Concrete Superstructures".
* Epoxy grout #15 v(E), v_3(E) and v_4(E) bars 230 mm holes (Min.) according to Article 584 of the Standard Specifications.
** Bonded Construction Joint (optional).
*** Elevations at front face of hatchblock.



SEC. THRU ABUT.

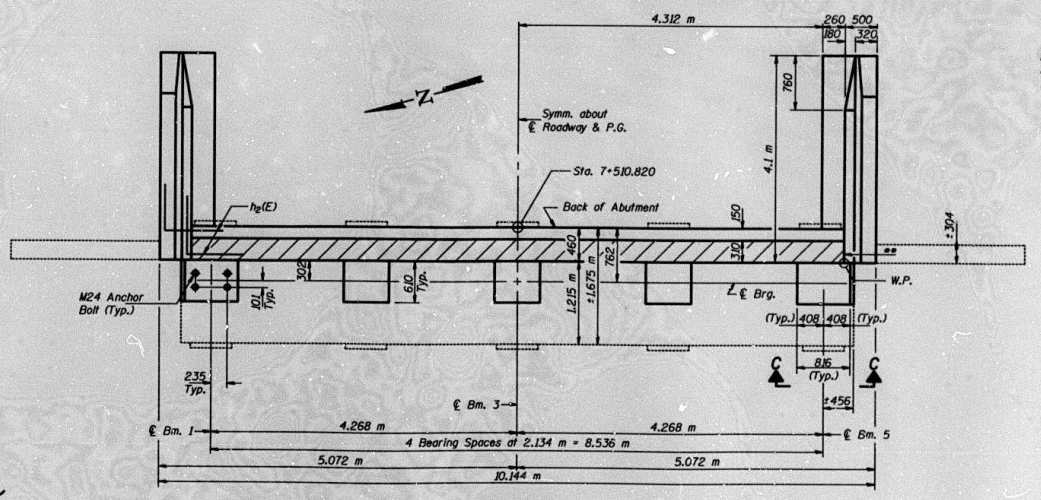


VIEW C-C

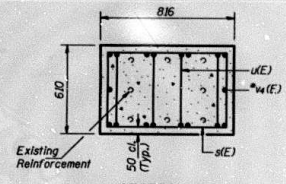


Cross-hatched area indicates concrete removal under new pedestals which shall extend down to top reinforcement (Typ.). Max. hammer weight = 4.5 kg. Quantity included with "Concrete Removal" on Drawing F48.

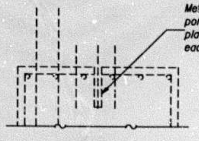
ELEVATION



TOP VIEW



SECTION A-A



SECTION B-B

(Existing reinforcement from existing plans - for information only.)

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. S.D.G.

March 10, 1999
EXAMINED
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

EAST ABUTMENT
F.A. ROUTE 317 SECTION 15B-I-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

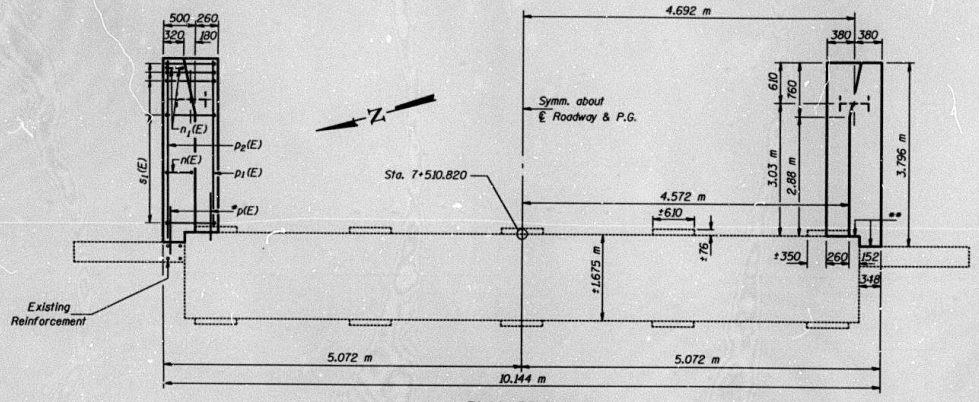
DWG. NO. F74

C B A 0 A B C D

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	JOB NO.	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	303	279 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Note:
Work with Drawings F74 & F76.
Reinforcement bars designated (E) shall be epoxy coated.
All edges shall have standard 20 mm chamfers.
* Epoxy grout #25 p(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.
** Bonded Construction Joint.



PLAN-PILE CAP

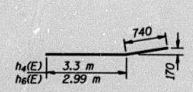
PILE DATA

Type: Steel Piles HP 310x94
Capacity: Drive to Refusal
Est. Length: 23.5 m
No. Required: 2

BILL OF MATERIAL

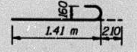
Bar	No.	Size	Length (m)	Shape
h(E)	4	#20	9.06	
h1(E)	8	#15	10.06	
h2(E)	24	#15	1.84	
h3(E)	20	#15	4.02	
h4(E)	12	#15	4.04	
h5(E)	2	#15	3.71	
h6(E)	2	#15	3.73	
n(E)	20	#20	3.24	
n1(E)	12	#20	1.52	
p(E)	16	#25	0.84	
p1(E)	6	#25	3.56	
p2(E)	6	#25	3.71	
s(E)	5	#15	2.72	
s1(E)	30	#15	2.92	
u(E)	20	#15	0.65	
u1(E)	31	#15	0.41	
v(E)	31	#15	2.23	
v1(E)	31	#15	1.16	
v2(E)	31	#15	1.00	
v3(E)	31	#15	0.76	
v4(E)	50	#15	0.34	
v5(E)	20	#20	2.11	
v6(E)	26	#20	2.14	
v7(E)	2	#20	2.32	
v8(E)	2	#20	2.40	
v9(E)	6	#20	2.03	
Structure Excavation		m³	38	
Concrete Superstructure		m³	3.4	
Concrete Structures		m³	14.7	
Reinforcement Bars, Epoxy Coated		kg	1690	
Furnishing Steel Piles HP310x94		m	47	
Driving Steel Piles		m	47	

BAR h12(E)

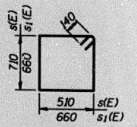


BAR h4(E) & h6(E)

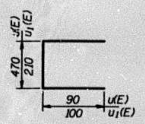
BAR n(E)



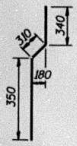
BAR n1(E)



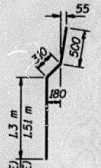
BARS s(E) & s1(E)



BAR u(E) & u1(E)



BAR v2(E)



BAR v5(E) & v7(E)

BAR v9(E)

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.b.c. DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. S.D.G.

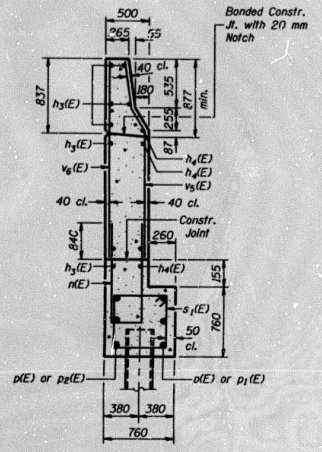
March 10, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

EAST ABUTMENT DETAILS
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

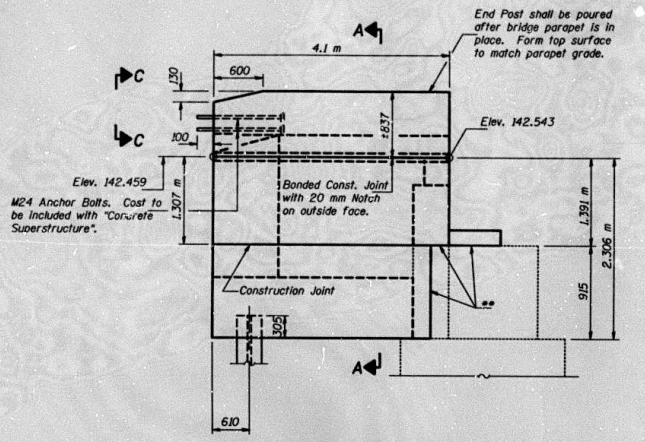
DWG. NO. F75

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

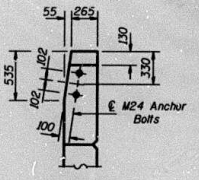
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	15B-1-8	PEORIA & TAZEWELL	309	274
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		SHEETS



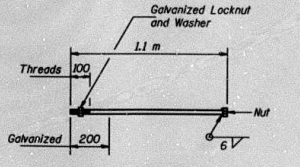
SEC. A-A



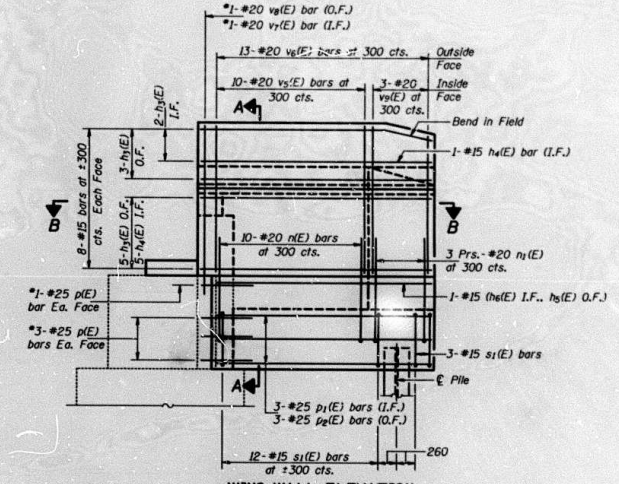
WING WALL ELEVATION



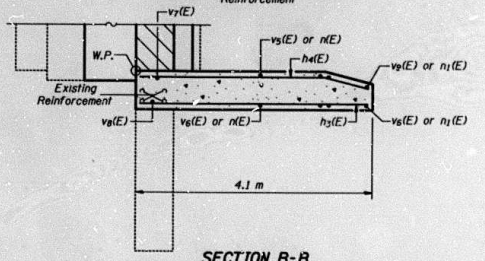
VIEW C-C



M24 ANCHOR BOLT



WING WALL ELEVATION



SECTION B-B

Notes:
All edges shall have standard 20 mm chamfers.
Work with Drawings F74 & F75.
Reinforcement bars designated (E) shall be epoxy coated.
Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with "Concrete Superstructure".
Quantity of concrete in End Post included with "Concrete Superstructure".
* Epoxy grout #20 $v_7(E)$, $v_8(E)$ and #25 p(E) bars in 230 mm holes (Min.) according to Article 584 of the Standard Specifications.
** Bonded Construction Joint.

DESIGNED	S. Moynihan
CHECKED	S.D. Gnann
r.b.c. DRAWN	John F. Schneller Jr.
CHECKED	S.E.M. S.D.G.

March 15, 1999
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures

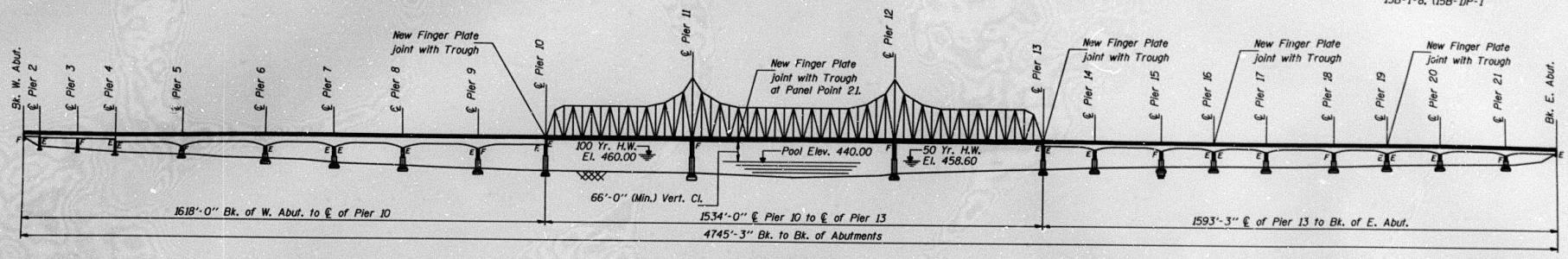
EAST ABUTMENT DETAILS
F.A. ROUTE 317 SECTION 15B-1-8
PEORIA AND TAZEWELL COUNTIES
STATION 6+791.262

DWG. NO. F76

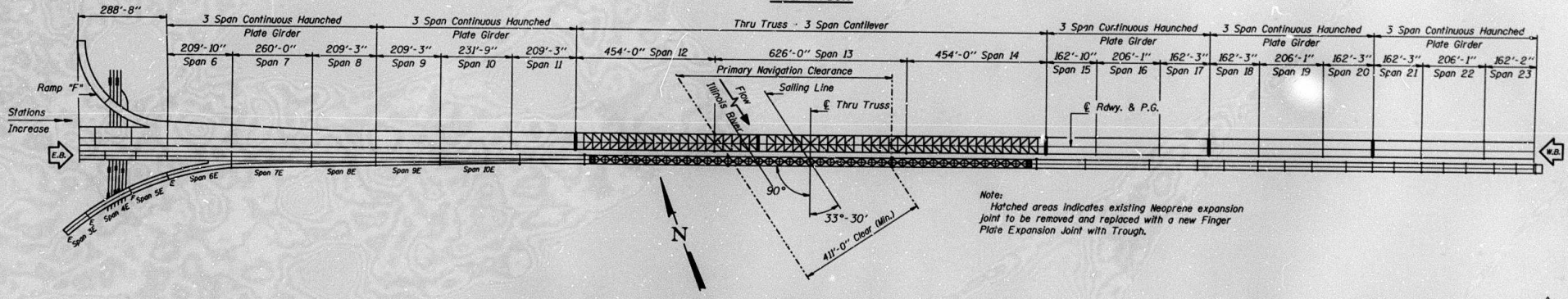
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	*	PEORIA & TAZEWELL	303	275
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		18 SHEETS

* 15B-1-8, (15B-1)P-1



ELEVATION



PLAN

Note:
Hatched areas indicates existing Neoprene expansion joint to be removed and replaced with a new Finger Plate Expansion Joint with Trough.

GENERAL NOTES

All new structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Calculated weight of AASHTO M-270, Grade 36 Structural Steel = 46,180 Lbs. ⚠

Calculated weight of AASHTO M-270, Grade 50 Structural Steel = 57,690 Lbs.

Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$"ϕ. open holes $\frac{13}{16}$"ϕ. unless otherwise noted.

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.

Plan dimensions and details relative to 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.

Finger Plate Expansion Joints shall be assembled in the proper position with the ends in place and shall be left assembled for shop inspection.

The finger plates shall be flame cut as provided in Article 505.04(k) of the Standard Specifications.

Joint openings shall be adjusted according to Article 503.10(c) of the the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

The deck surface shall have its final finish tined according to Article 420.11(e)(1) of the Standard Specifications. Cost to be included in the cost of "Concrete Superstructures".

The existing structural steel coating contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.

The inorganic zinc rich primer/acrylic/acrylic paint system shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the acrylic finish coat shall be Blue, Munsell No. 10B 3/6. See Special Provision for "Cleaning and Painting New Metal Structures".

Cleaning and Painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures". All existing structural steel shall be cleaned by Method 2. The aluminum epoxy mastic/acrylic paint system shall be used for the painting of the existing structural steel. The color of the final finish coat shall be Blue, Munsell No. 10B 3/6.

The Federally Protected endangered species, Boltonia Decurrens, grows under the structure. The Contractor should take appropriate precautions to deal with the presence of Boltonia Decurrens on this project including containment during the painting operation. See Special Provision "Boltonia Decurrens". ⚠

Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included in the cost of "Concrete Removal".

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	45.2
Concrete Superstructures	Cu. Yd.	45.2
Reinforcement Bars, Epoxy Coated	Pound	7,770
Furnishing and Erecting Structural Steel, N1	L.S.	1
Mechanical Splice	Each	390
Reinforced Neoprene Expansion Joint Treatment	Foot	22.4
Bar Splicers	Each	116
Protective Coat	Sq. Yd.	78.3
Cleaning and Painting Steel Bridge, N1	L.S.	1
Power Tool Cleaning Residue Containment and Disposal, N1	L.S.	1

⚠

BRIDGE REPAIRS
McCLUGAGE BRIDGE (W.B.)
OVER THE ILLINOIS RIVER
F.A.P. ROUTE 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

DESIGNED Nicholas J. Ansell
CHECKED Kenneth P. Stultz
DRAWN John F. Schneller Jr.
CHECKED KPS NJS RHB

APRIL 9, 1999

EXAMINED John A. Morris
ENGINEER OF STRUCTURAL SERVICES

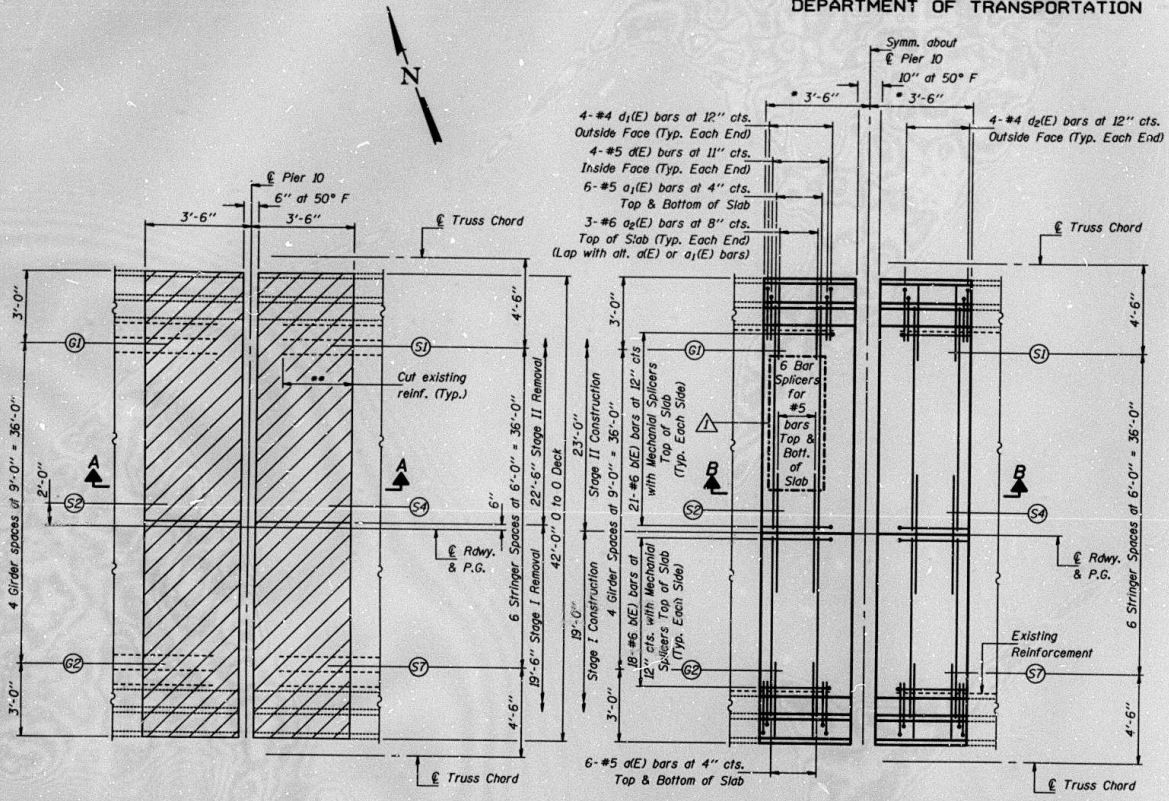
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	*	PEORIA & TAZEWELL	303	276
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 2
15 SHEETS

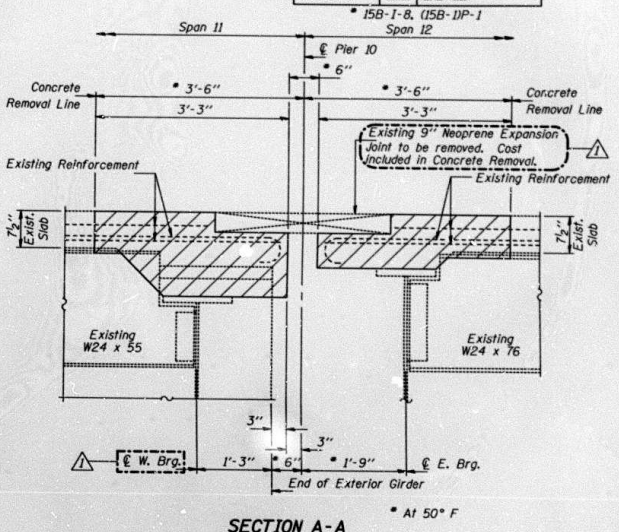
* 15B-1-8, (15B-1)P-1



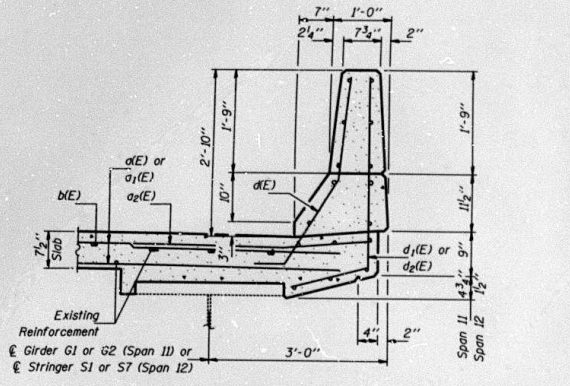
PARTIAL PLAN SHOWING CONCRETE REMOVAL

** 5" Top Reinforcement
1'-6" Bottom Reinforcement

PARTIAL PLAN SHOWING CONCRETE REPLACEMENT



SECTION A-A

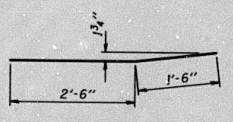


SECTION THRU CURB

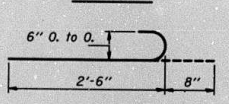
Notes: Hatched areas indicates "Concrete Removal". Existing longitudinal reinforcement extending into the removed area shall be cleaned, straightened and incorporated into the new construction.

For Section B-B and Parapet Plate Assembly Details, see sheet 3 of 18.

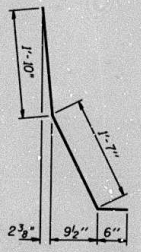
For Bar Splicer Details, see sheet 18 of 18.



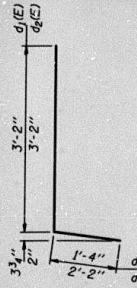
BAR $d_2(E)$



BAR b(E)



BAR d(E)



BARS $d_1(E)$ & $d_2(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	24	#5	18'-6"	
$a_1(E)$	24	#5	22'-6"	
$a_2(E)$	12	#6	4'-0"	
b(E)	78	#6	3'-2"	
d(E)	16	#5	3'-11"	
$d_1(E)$	8	#4	4'-6"	
$d_2(E)$	8	#4	5'-4"	
Reinforcement Bars, Epoxy Coated			Pound	1,590
Concrete Superstructure			Cu. Yds.	10.2
Concrete Removal			Cu. Yds.	10.2

Reinforcement bars designated (E) shall be epoxy coated.

DESIGNED	NJS
CHECKED	KPS
DRAWN	John F. Schneller Jr.
CHECKED	NJS KPS RTB

APRIL 9, 1999
EXAMINED John A. Morris
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

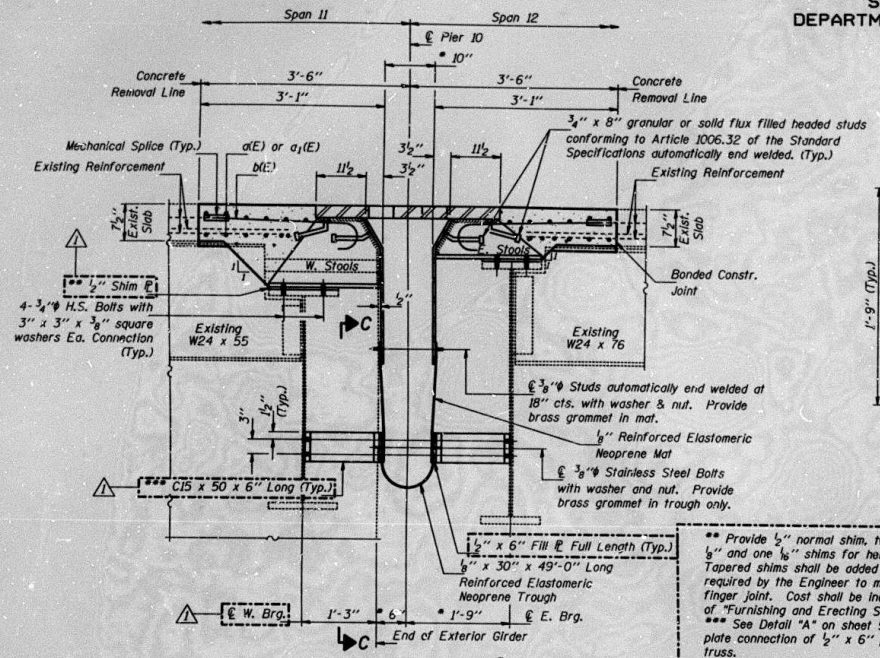
EXPANSION JOINT DETAILS AT PIER 10
F.A.P. ROUTE. 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	*	PEORIA & TAZEWELL	303	277
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

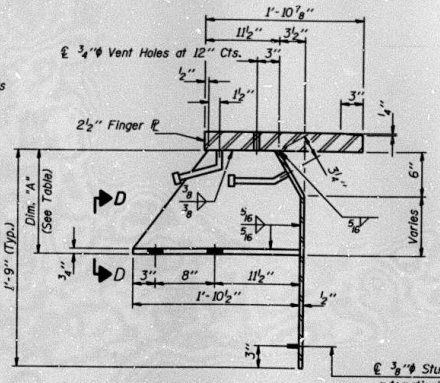
SHEET NO. 3
18 SHEETS

* 15B-1-8, (15B-1)P-1

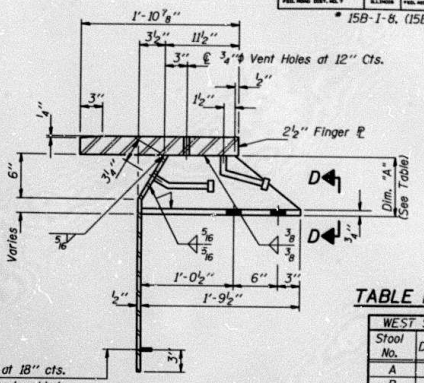


SECTION B-B

** Provide ½" normal shim, two ¼"shims and one ⅛" and one ⅛" shims for height adjustment. Tapered shims shall be added under the stools as required by the Engineer to make a smooth finger joint. Cost shall be included in the cost of "Furnishing and Erecting Structural Steel".
*** See Detail "A" on sheet 5 of 18 for gusset plate connection of ½" x 6" plate to outside of truss.



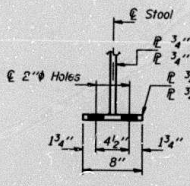
WEST STOOL DETAIL



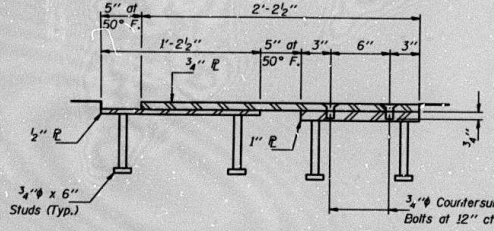
EAST STOOL DETAIL

TABLE FOR DIMENSION "A"

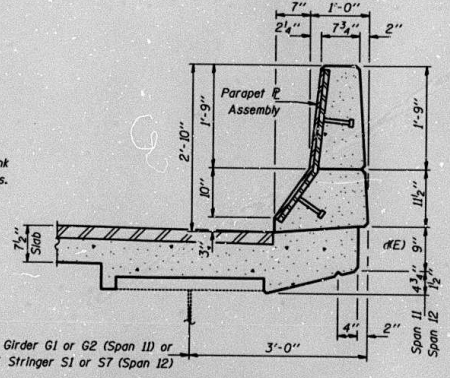
WEST STOOL		EAST STOOL	
Stool No.	Dim. "A"	Stool No.	Dim. "A"
A	6⅝"	A	9⅜"
B	11⅛"	B	
C	12¼"	C	
D	12¾"	D	
E	13⅜"	E	
F	13⅝"	F	
G	13⅝"	G	
H	14⅝"	H	
I	14⅝"	I	
J	15"	J	
K	15⅛"	K	
L	15⅛"	L	
M	15⅜"	M	
N	15"	N	
O	14⅝"	O	
P	14¼"	P	
Q	14"	Q	
R	13⅝"	R	
S	13¼"	S	
T	12⅞"	T	
U	7"	U	9⅜"



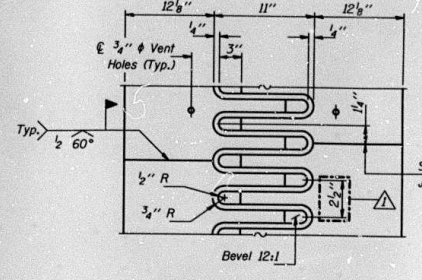
SECTION D-D



PARAPET PLATE ASSEMBLY DETAIL



SECTION THRU CURB



FINGER PLATE DETAIL
Cut from
℄ 2½" x 35¼" x 38'-9⅝"
AASHTO M 270, Grade 50.
(1 Required)

Notes:
For Stool locations, see sheet 4 of 18.
For View C-C, see sheet 5 of 18.

DESIGNED	NJS
CHECKED	KPS
DRAWN	John F. Schneller Jr.
CHECKED	NJS KPS RTB

APRIL 9, 1999
EXAMINED John A. Morris ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

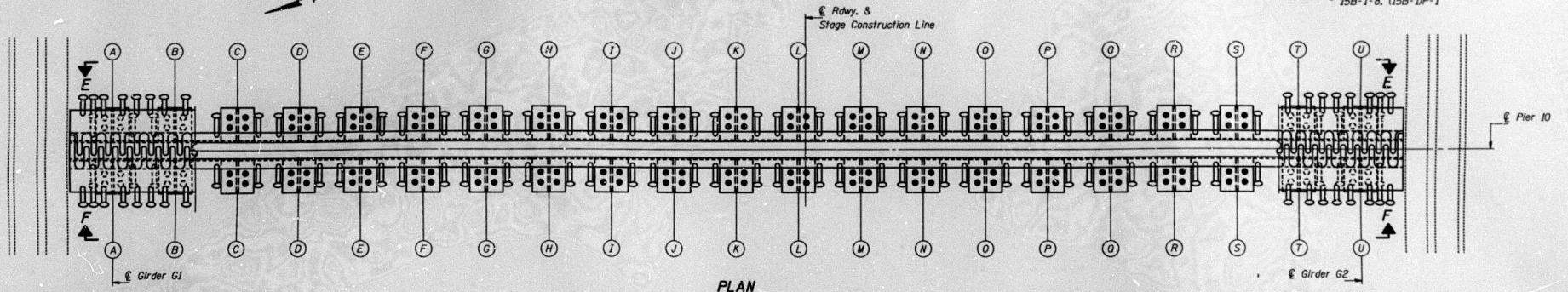
EXPANSION JOINT DETAILS AT PIER 10
F.A.P. ROUTE 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

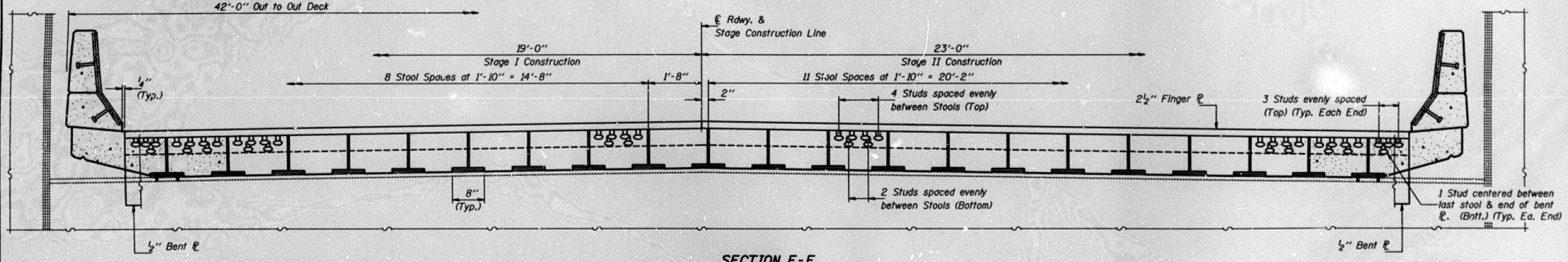
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	*	PEORIA & TAZEWELL	303	278
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 4
18 SHEETS

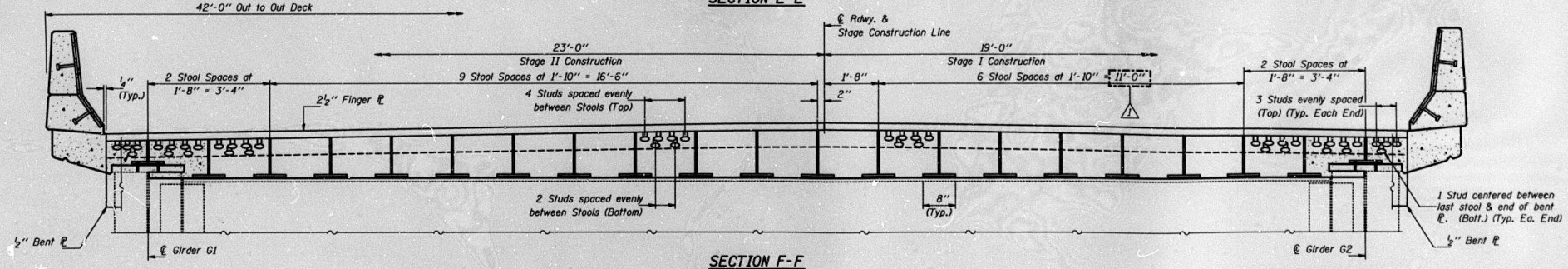
* 15B-1-8, (15B-1)P-1



PLAN



SECTION E-E



SECTION F-F

DESIGNED	NJS
CHECKED	KPS
DRAWN	John F. Schneller Jr.
CHECKED	NJS KPS RTB

APRIL 9, 1999
EXAMINED John A. Morris
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

EXPANSION JOINT DETAILS AT PIER 10
F.A.P. ROUTE 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

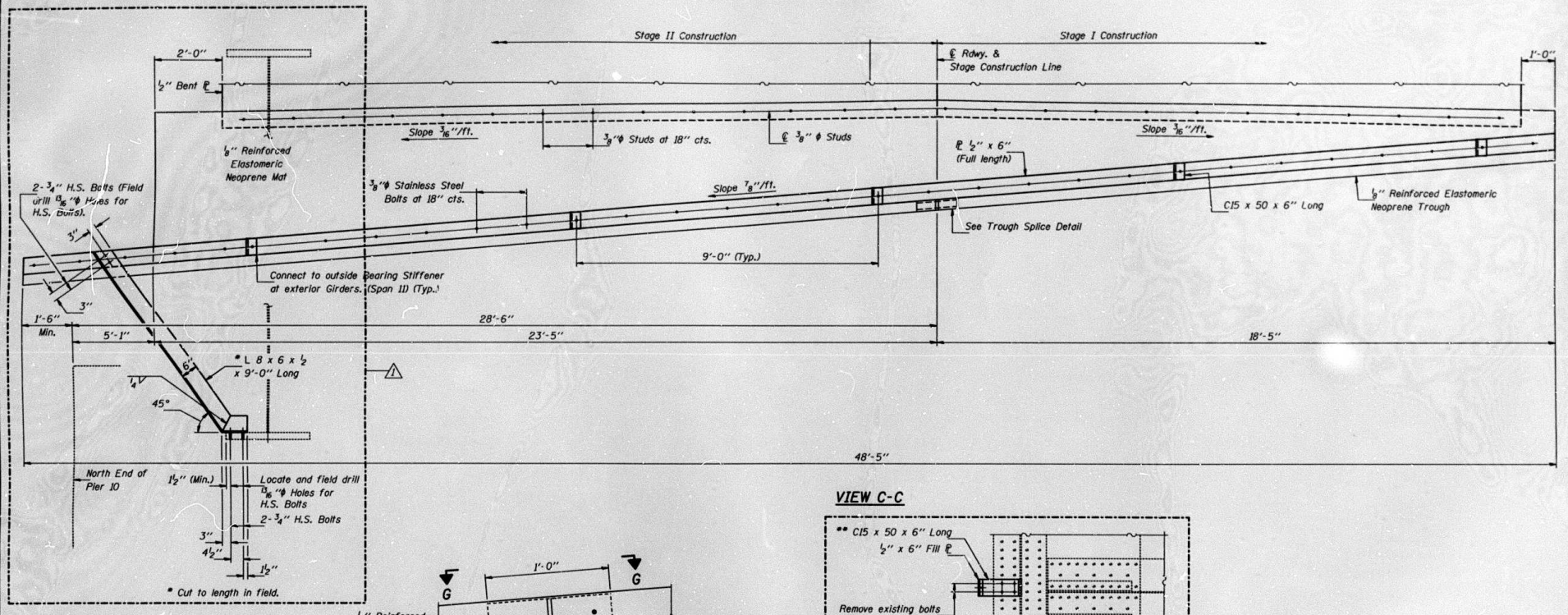
REVISED 05/07/1999 NJS

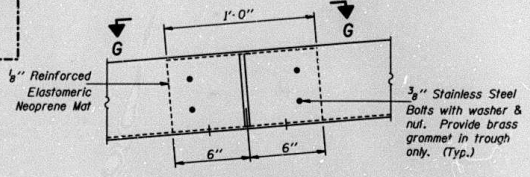
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	#	PEORIA & TAZEWELL	303	279
FED. HWY. DIST. NO. 7		ILLINOIS FED. AID PROJECT		

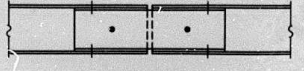
SHEET NO. 5
18 SHEETS

* 15B-1-8, (15B-1)P-1



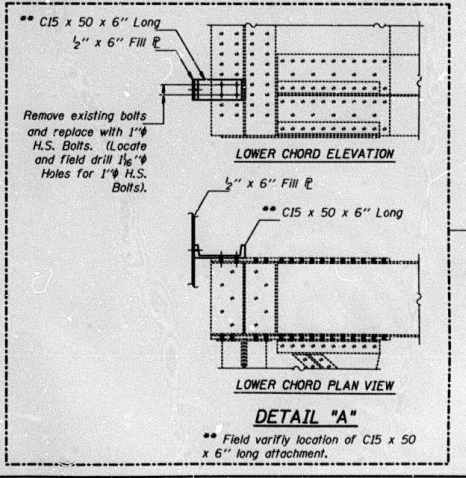


TROUGH SPLICE DETAIL



VIEW G-G

VIEW C-C



DETAIL "A"

** Field varify location of C15 x 50 x 6" long attachment.

DESIGNED	NJS
CHECKED	KPS
DRAWN	John F. Schneller Jr.
CHECKED	NJS KPS RTB

APRIL 9, 1999
EXAMINED John A. Morris ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

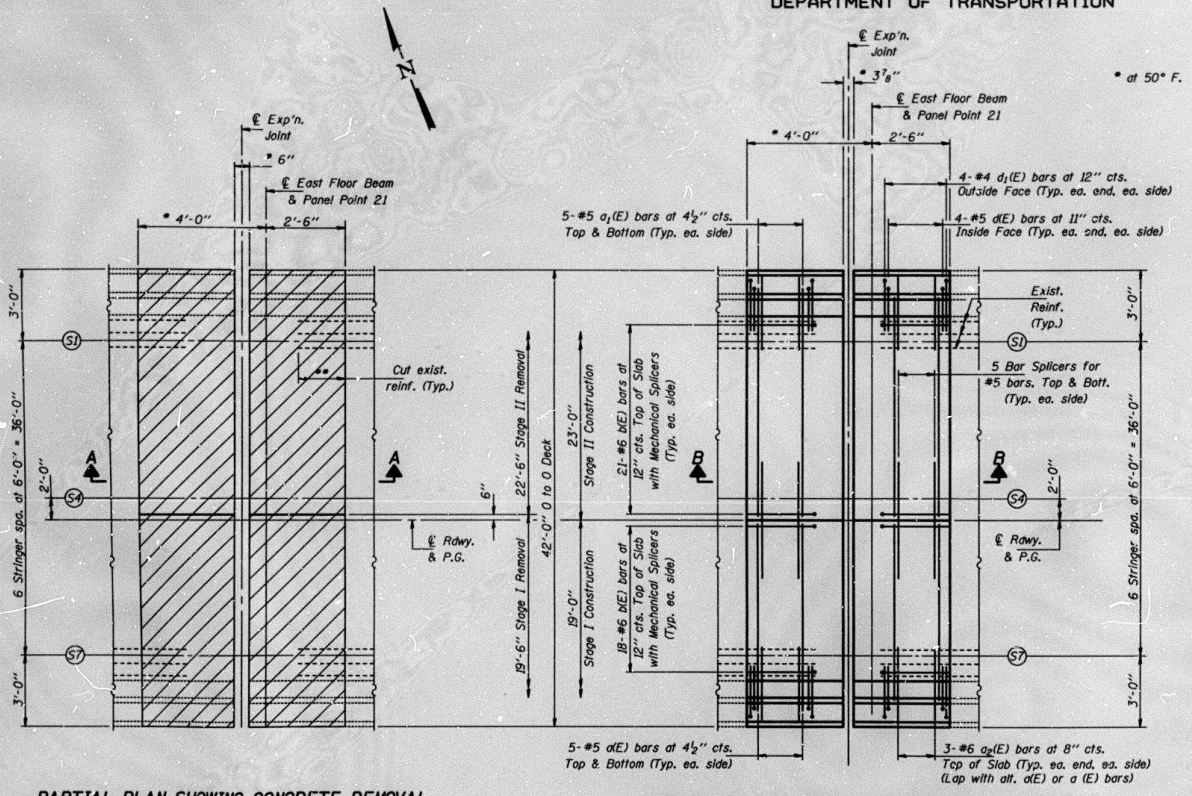
TROUGH DETAILS AT PIER 10
F.A.P. ROUTE 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

⚠ REVISED 05/07/1999 N.J.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	3	PEORIA & TAZEWELL	303	280
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

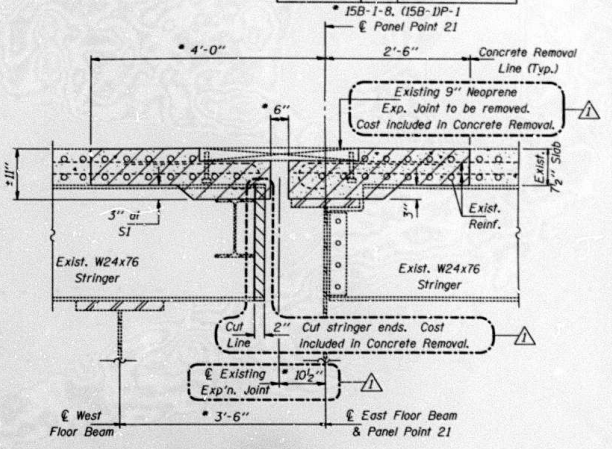
SHEET NO. 6
18 SHEETS



PARTIAL PLAN SHOWING CONCRETE REMOVAL

** 6" Top Reinf.
1'-6" Bott. Reinf.

PARTIAL PLAN SHOWING CONCRETE REPLACEMENT



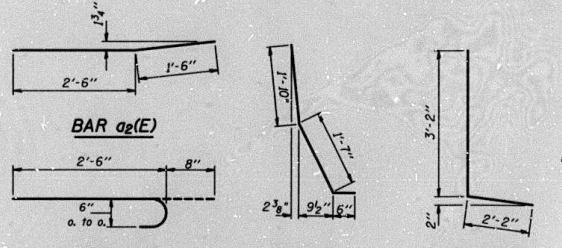
SECTION A-A

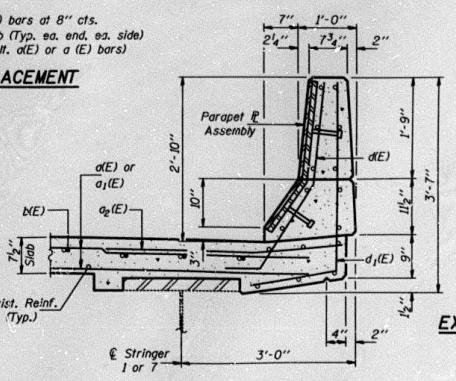
Notes: Hatched areas indicate Concrete Removal. Longitudinal reinforcement extending into the removal area shall be cleaned, straightened and incorporated into new construction.
For Section B-B and Parapet ℄ Assembly Details, see Sheet 7 of 18.
For Bar Splicer Details, see Sheet 18 of 18.

PANEL POINT 21
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	20	#5	18'-6"	
a_1(E)	20	#5	22'-6"	
a_2(E)	12	#6	4'-0"	
b(E)	78	#6	3'-2"	
d(E)	16	#5	3'-11"	
d_1(E)	16	#4	5'-4"	
Reinforcement Bars, Epoxy Coated			Pound	1420
Concrete Superstructure			Cu. Yds.	7.1
Concrete Removal			Cu. Yds.	7.1

Reinforcement bars designated (E) shall be epoxy coated.





SECTION THRU CURB

DESIGNED	NJS	APRIL 9, 1999
CHECKED	KPS	EXAMINED John A. Morris ENGINEER OF STRUCTURAL SERVICES
DRAWN	D-Herbert	PASSED
CHECKED	KPS NJS RTB	ENGINEER OF BRIDGES AND STRUCTURES

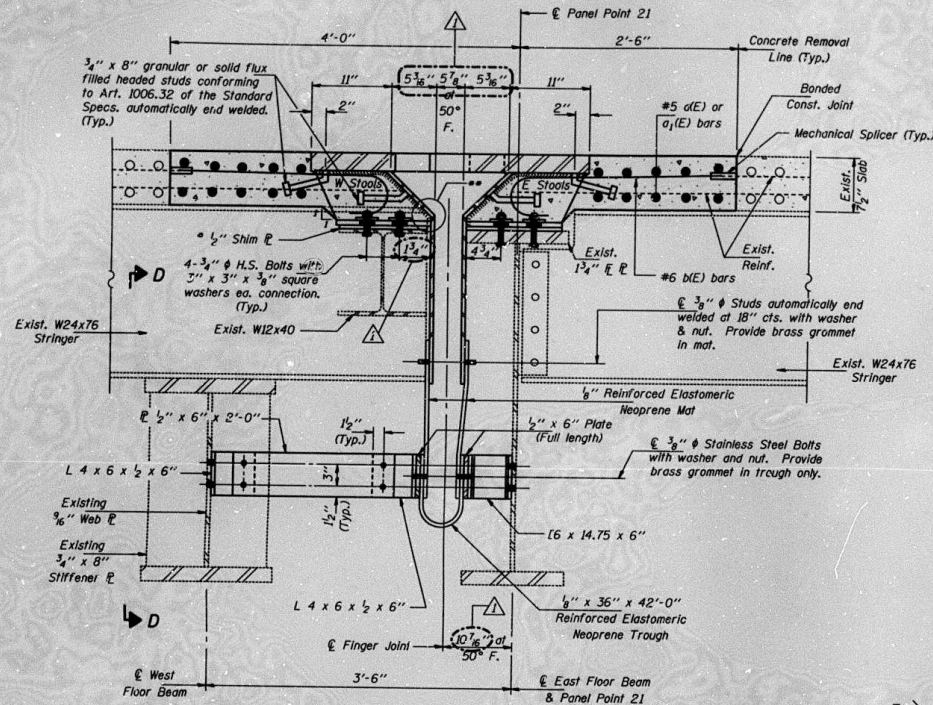
EXPANSION JOINT DETAILS AT PANEL POINT 21
F.A.P. ROUTE. 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	*	PEORIA & TAZEWELL	303	281
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 7
18 SHEETS

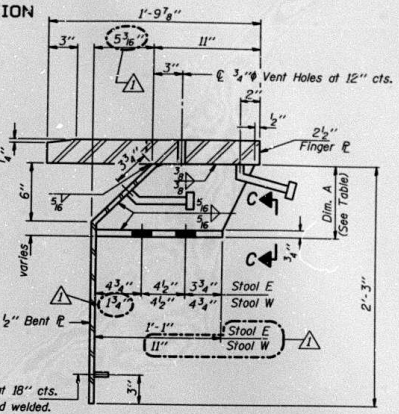
* 15B-1-8, (15B-1)P-1



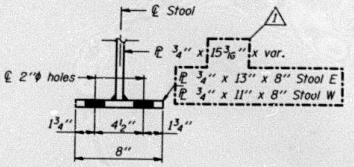
SECTION B-B

* Provide 1/2" normal shim, two 1/4" shims, and one 1/8" and one 1/16" shims for height adjustment. Tapered shims shall be added under the stools as req'd. by the Engineer to make a smooth finger joint. Cost shall be included in the cost of "Furnishing & Erecting Structural Steel".

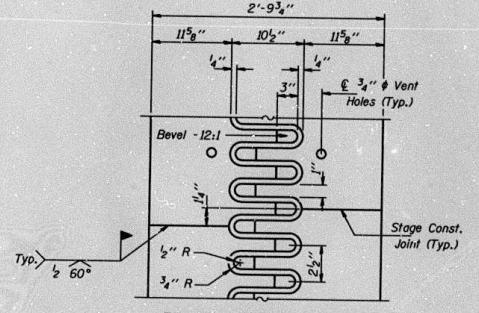
** Top corner of stringers to be trimmed as necessary to allow for bent ℄ & stool fit up.



STOOL DETAIL



SECTION C-C



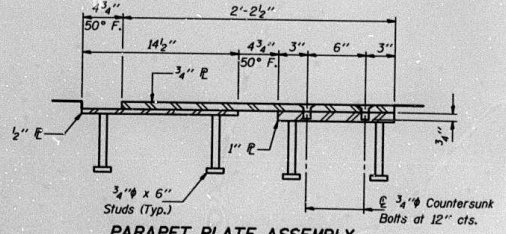
FLAME CUTTING DIAGRAM

Cut from
℄ 2 1/2" x 33 3/4" x 38'-9 5/8" (M270-Gr. 50)
(1 Required)

TABLE FOR DIMENSION A

Stool No.	Dim. A	Stool No.	Dim. A
W1	5 1/2"	E1	8 3/8"
W2	9"	E2	
W3	9 1/2"	E3	
W4	5 1/2"	E4	
W5	10 1/2"	E5	
W6	10 7/8"	E6	
W7	5 1/2"	E7	
W8	11 5/8"	E8	
W9	12"	E9	
W10	5 1/2"	E10	
W11	12 3/4"	E11	
W12	12 7/8"	E12	
W13	5 1/2"	E13	
W14	11 5/8"	E14	
W15	11 1/4"	E15	
W16	5 1/2"	E16	
W17	10 1/2"	E17	
W18	10"	E18	
W19	5 1/2"	E19	
		E20	
		E21	8 3/8"

Notes: For Stool locations, see Sheet 8 of 18.
For View D-D, see Sheet 9 of 18.



PARAPET PLATE ASSEMBLY

DESIGNED	NJS
CHECKED	KPS
DRAWN	D.Herbert
CHECKED	KPS NJS RTB

APRIL 9, 1999
EXAMINED John A. Morris ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

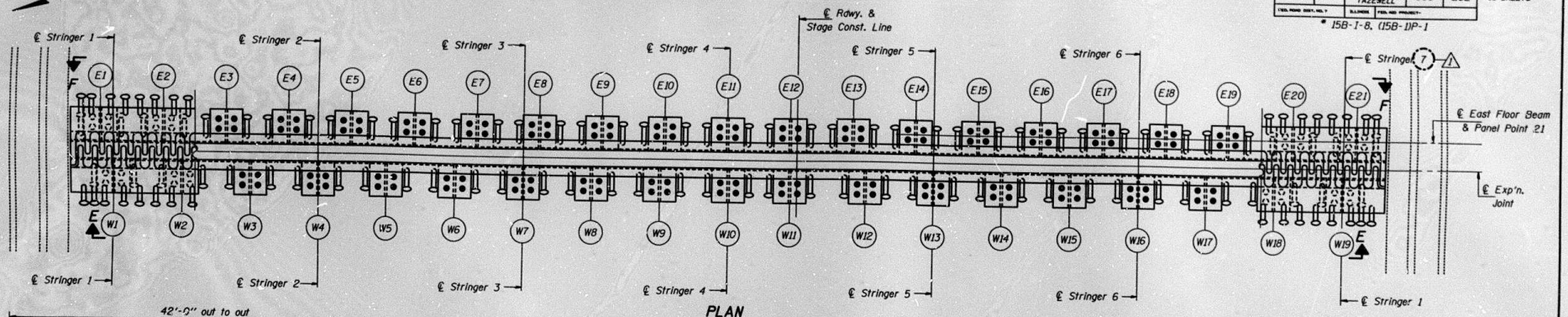
EXPANSION JOINT DETAILS AT PANEL POINT 21
F.A.P. ROUTE 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

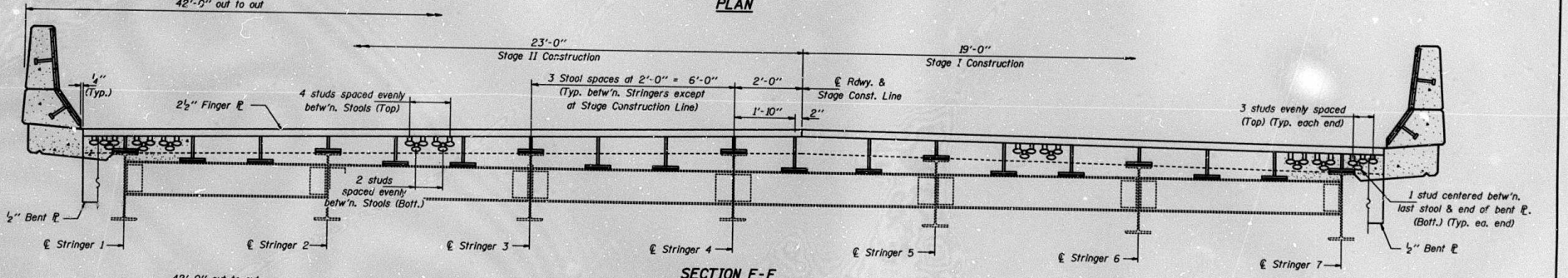
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	*	PEORIA & TAZEWELL	303	282
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 8
18 SHEETS

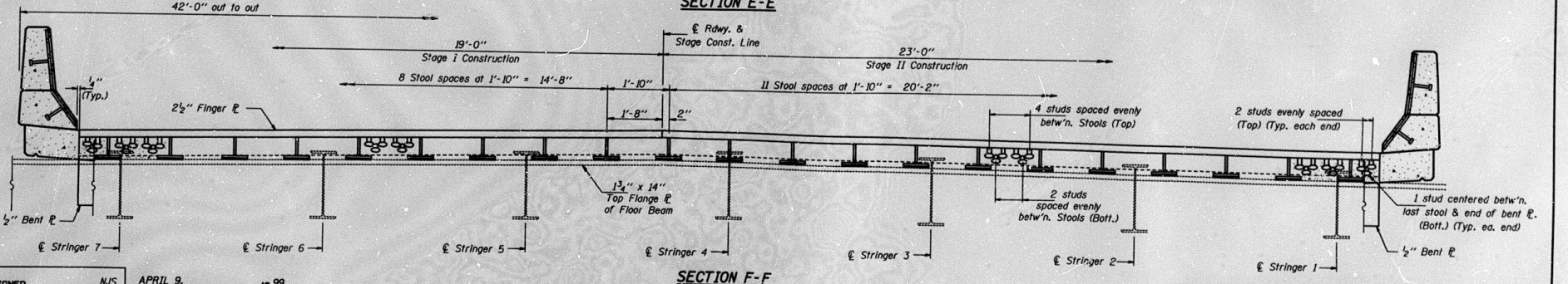
* 15B-1-8, (15B-1)P-1



PLAN



SECTION E-E



SECTION F-F

DESIGNED	NJS
CHECKED	KPS
DRAWN	D-Herbert
CHECKED	KPS NJS RTB

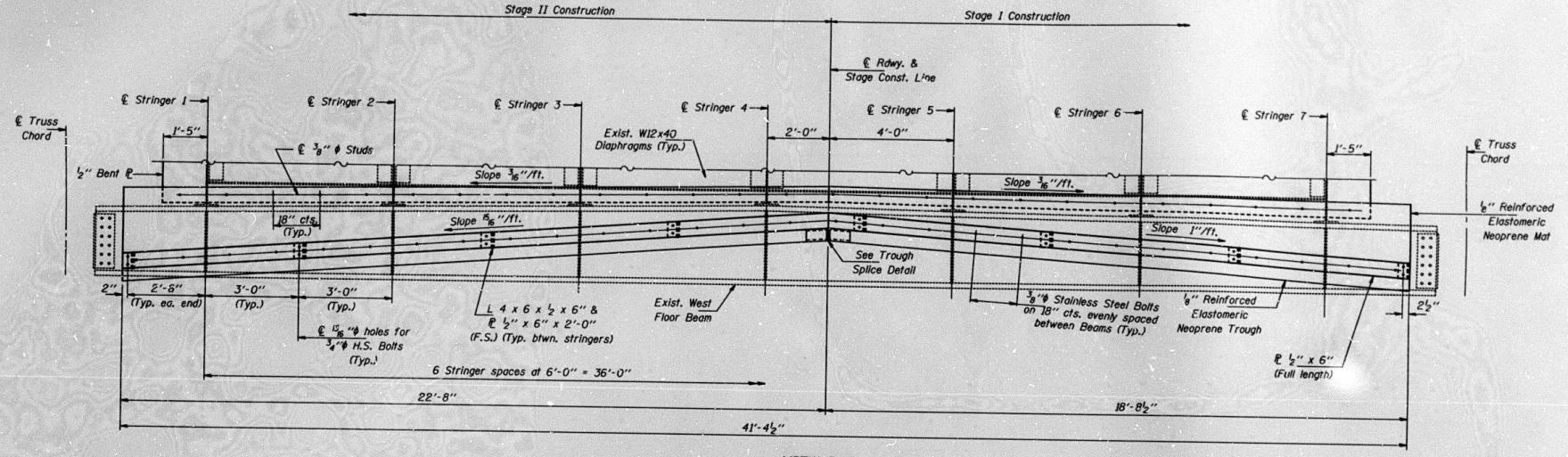
APRIL 9, 1999
EXAMINED John A. Morris ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

EXPANSION JOINT DETAILS AT PANEL POINT 21
F.A.P. ROUTE 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

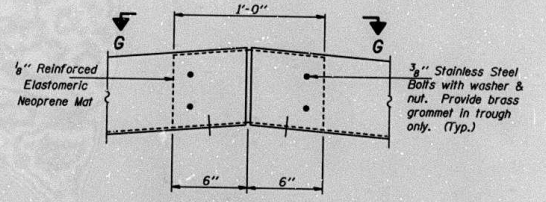
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317		PEORIA & TAZEWELL	303	283
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

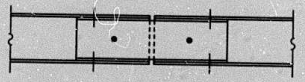
SHEET NO. 9
18 SHEETS



VIEW D-D



TROUGH SPLICE DETAIL



VIEW G-G

DESIGNED	NJS
CHECKED	KPS
DRAWN	D-Herbert
CHECKED	KPS NJS RTB

APRIL 9, 1999
EXAMINED John A. Morris ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

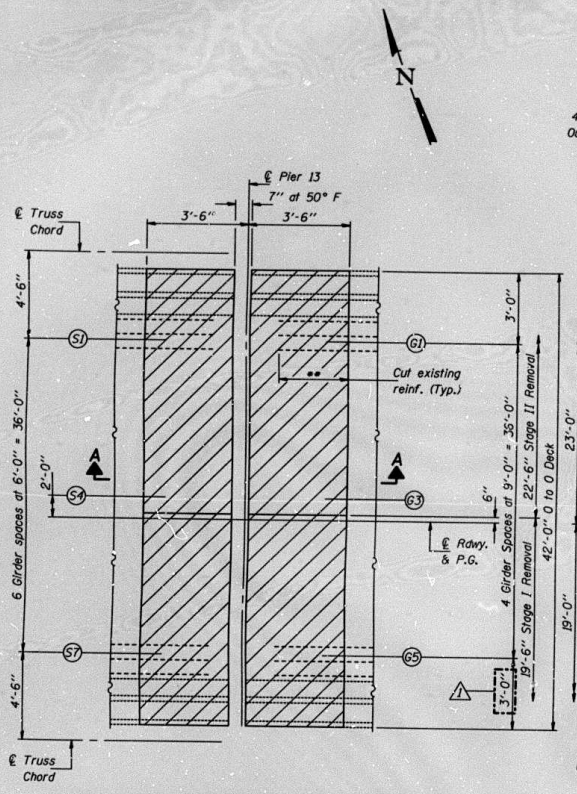
TROUGH DETAILS AT PANEL POINT 21
F.A.P. ROUTE. 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	*	PEORIA & TAZEWELL	303	284
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

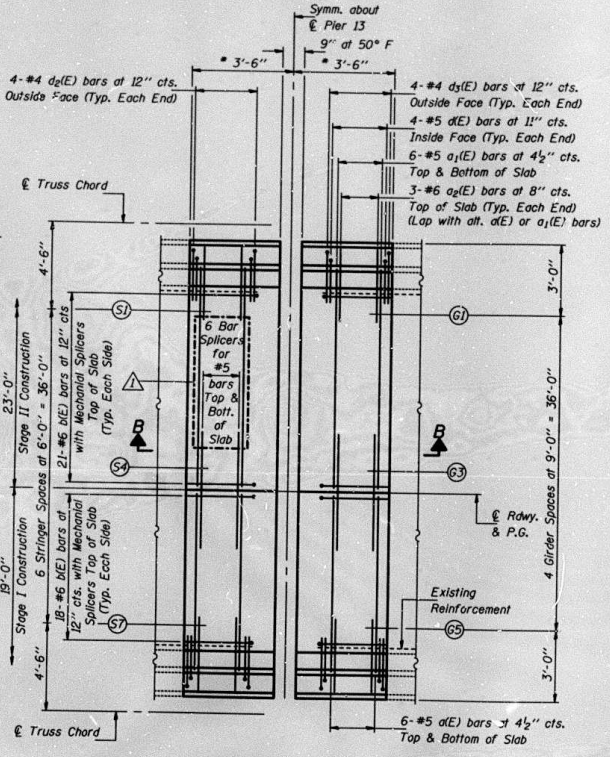
SHEET NO. 10
18 SHEETS

* 15B-1-8, (15B-1)P-1

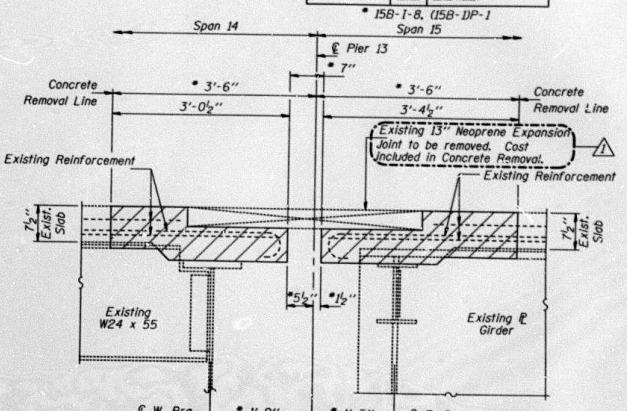


PARTIAL PLAN SHOWING CONCRETE REMOVAL

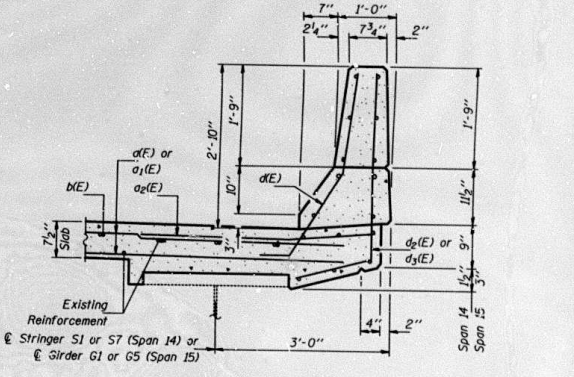
** 6" Top Reinforcement
1'-6" Bottom Reinforcement



PARTIAL PLAN SHOWING CONCRETE REPLACEMENT

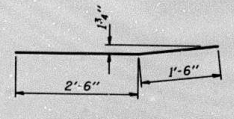


SECTION A-A

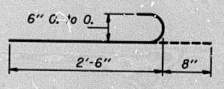


SECTION THRU CURB

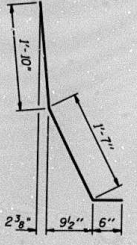
Notes: Hatched areas indicates "Concrete Removal".
Existing longitudinal reinforcement extending into the removed area shall be cleaned, straightened and incorporated into the new construction.
For Section B-B and Parapet Plate Assembly Details, see sheet 11 of 18.
For Bar Splicer Details, see sheet 18 of 18.



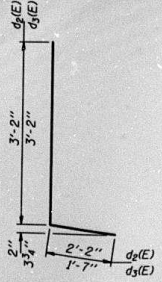
BAR $a_2(E)$



BAR b(E)



BAR d(E)



BARS $d_2(E)$ & $d_3(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	24	#5	18'-6"	
a_1(E)	24	#5	22'-6"	
a_2(E)	12	#6	4'-0"	
b(E)	78	#6	3'-2"	
d(E)	16	#5	3'-11"	
d_2(E)	8	#4	5'-4"	
d_3(E)	8	#4	4'-9"	
Reinforcement Bars, Epoxy Coated			Pound	1,590
Concrete Superstructure			Cu. Yds.	8.7
Concrete Removal			Cu. Yds.	8.7

Reinforcement bars designated (E) shall be epoxy coated.

DESIGNED	NJS
CHECKED	KPS
DRAWN	John F. Schneller Jr.
CHECKED	NJS KPS RTB

APRIL 9, 1999
EXAMINED John A. Morris
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

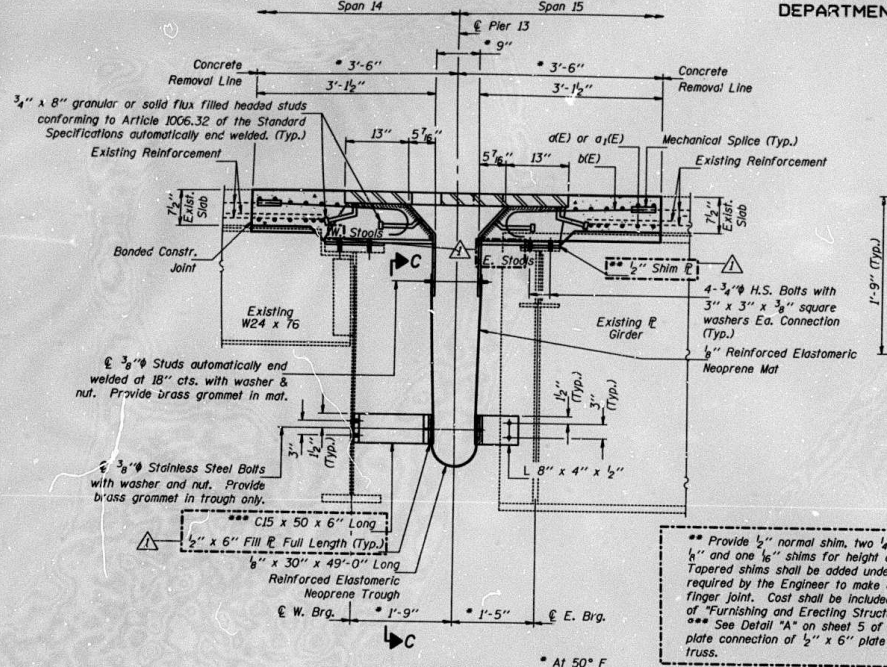
EXPANSION JOINT DETAILS AT PIER 13
F.A.P. ROUTE. 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	*	PEORIA & TAZEWELL	303	285
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

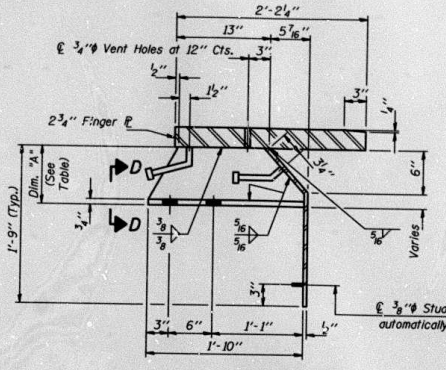
SHEET NO. 11
18 SHEETS

* 15B-I-8, (15B-1)P-1

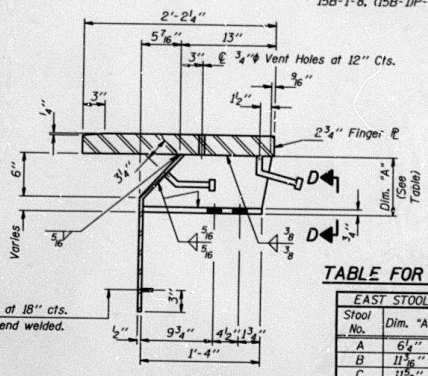


SECTION B-B

** Provide ½" normal shim, two ¼"shims and one ⅛" and one 1/16" shims for height adjustment. Tapered shims shall be added under the stools as required by the Engineer to make a smooth finger joint. Cost shall be included in the cost of "Furnishing and Erecting Structural Steel".
*** See Detail "A" on sheet 5 of 18 for gusset plate connection of ½" x 6" plate to outside of truss.



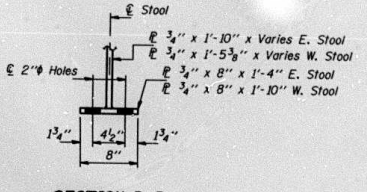
WEST STOOL DETAIL



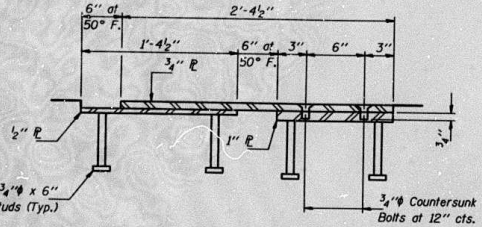
EAST STOOL DETAIL

TABLE FOR DIMENSION "A"

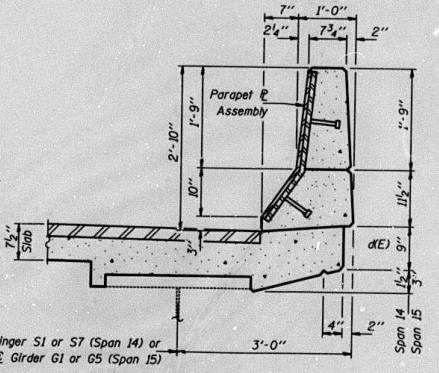
EAST STOOL		WEST STOOL	
Stool No.	Dim. "A"	Stool No.	Dim. "A"
A	6¼"	A	7½"
B	11 3/16"	B	↓
C	11⅝"	C	
D	12 1/16"	D	
E	12½"	E	
F	6¼"	F	
G	11⅜"	G	
H	11 1/16"	H	
I	11¾"	I	
J	12 1/16"	J	
K	6¼"	K	
L	12⅜"	L	
M	11¾"	M	
N	11 1/16"	N	
O	11⅛"	O	
P	6¼"	P	
Q	12 5/16"	Q	
R	12"	R	
S	11⅝"	S	
T	11 3/16"	T	
U	6¼"	U	7½"



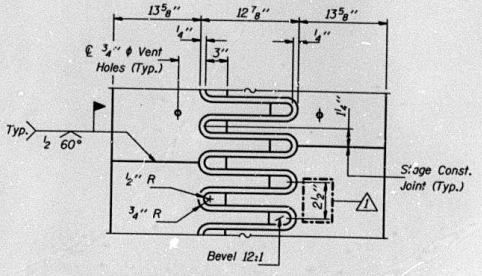
SECTION D-D



PARAPET PLATE ASSEMBLY DETAIL



SECTION THRU CURB



FINGER PLATE DETAIL
Cut from
℄ 2¾" x 40⅛" x 38'-9 5/8"
AASHTO M 270, Grade 50.
(1 Required)

Notes:
For Stool locations, see sheet 12 of 18.
For View C-C, see sheet 13 of 18.

DESIGNED	NJS
CHECKED	KPS
DRAWN	John F. Schneller Jr.
CHECKED	NJS KPS RTB

APRIL 9, 1999
EXAMINED John A. Morris
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

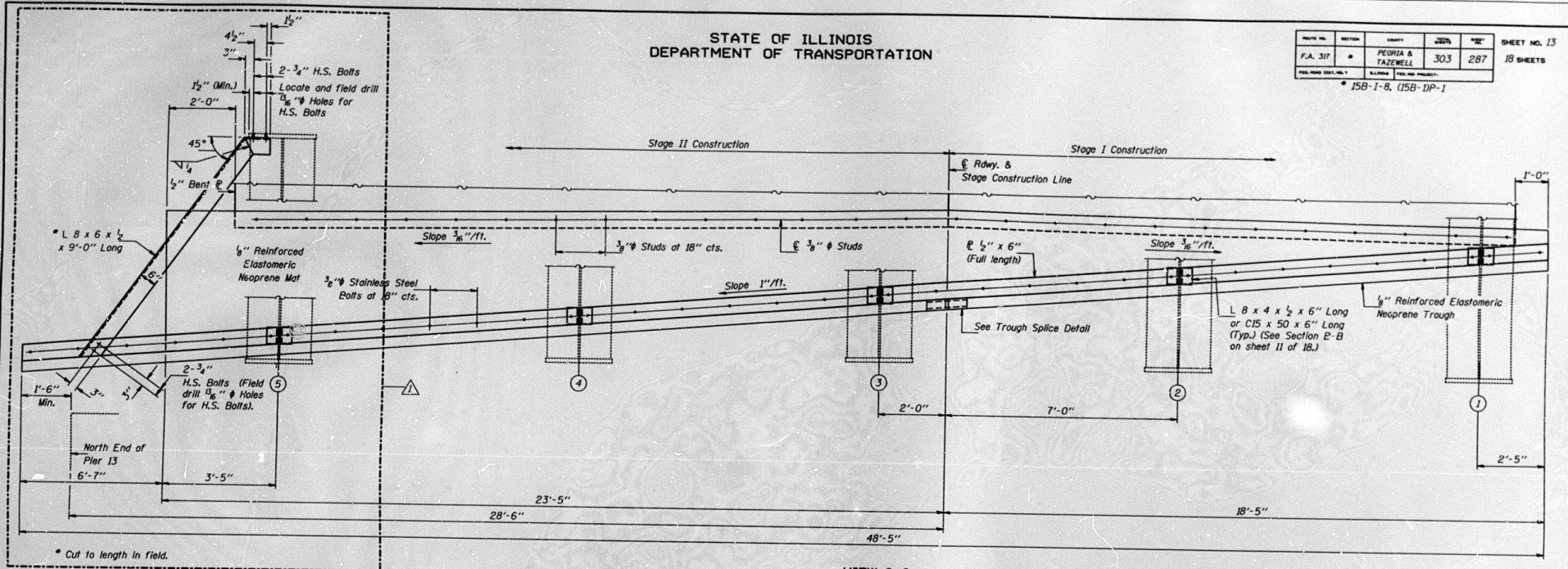
EXPANSION JOINT DETAILS AT PIER 13
F.A.P. ROUTE 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

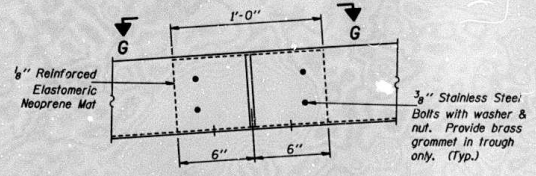
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	*	PEORIA & TAZEWELL	303	287
FED. ROAD DIST. NO. ?	ILLINOIS	FED. AID PROJECT		

SHEET NO. 13
18 SHEETS

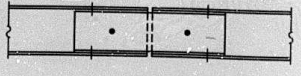
* 15B-1-8, (15B-1)P-1



VIEW C-C



TROUGH SPLICE DETAIL



VIEW G-G

DESIGNED	NJS
CHECKED	KPS
DRAWN	John F. Schneller Jr.
CHECKED	NJS KPS RTB

APRIL 9, 1999
EXAMINED John A. Morris
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

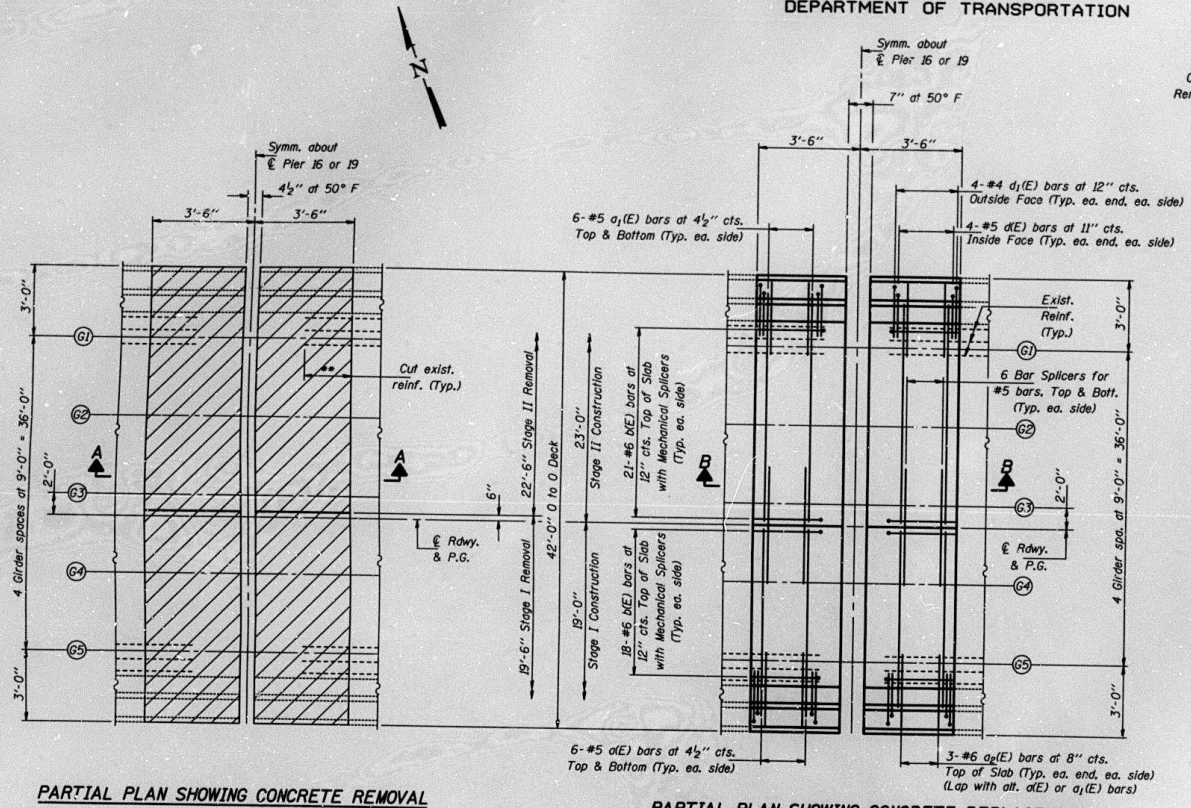
TROUGH DETAILS AT PIER 13
F.A.P. ROUTE 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	*	PEORIA & TAZEWELL	303	288
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 14
18 SHEETS

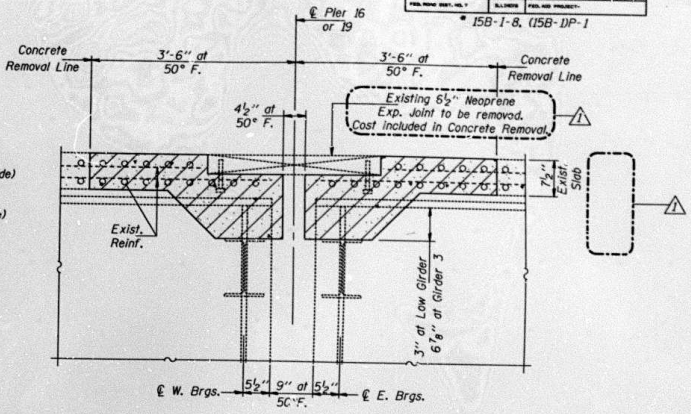
* 15B-1-8, (15B-1)P-1



PARTIAL PLAN SHOWING CONCRETE REMOVAL

** 6" Top Reinf.
1'-6" Bott. Reinf.

PARTIAL PLAN SHOWING CONCRETE REPLACEMENT



SECTION A-A

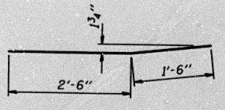
Notes: Hatched areas indicate Concrete Removal. Longitudinal reinforcement extending into the removal area shall be cleaned, straightened and incorporated into new construction.
For Section B-B and Parapet ℄ Assembly Details, see Sheet 15 of 18.
For Bar Splicer Details, see Sheet 18 of 18.

PIER 16 & 19
BILL OF MATERIAL

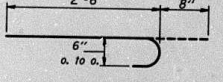
Bar	No.	Size	Length	Shape
d(E)	48	#5	18'-6"	
a1(E)	48	#5	22'-6"	
a2(E)	24	#6	4'-0"	
b(E)	156	#6	3'-2"	
d(E)	32	#5	3'-11"	L
d1(E)	32	#4	4'-9"	L
Reinforcement Bars, Epoxy Coated			Pound	3170
Concrete Superstructure			Cu. Yds.	19.2
Concrete Removal			Cu. Yds.	19.2

1

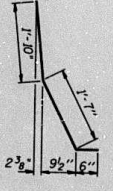
Reinforcement bars designated (E) shall be epoxy coated.



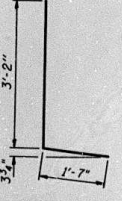
BAR a2(E)



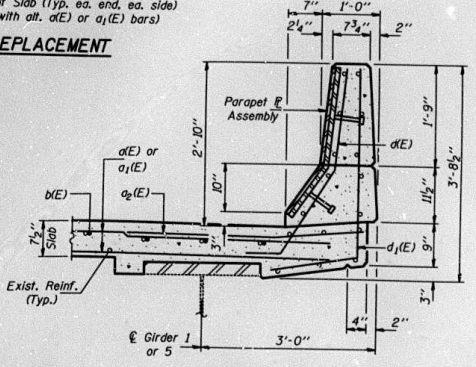
BAR b(E)



BAR d(E)



BARS d1(E)



SECTION THRU CURB

DESIGNED	NJS
CHECKED	KPS
DRAWN	D.Herbert
CHECKED	KPS NJS RTB

APRIL 9, 1999
EXAMINED John A. Mouis
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

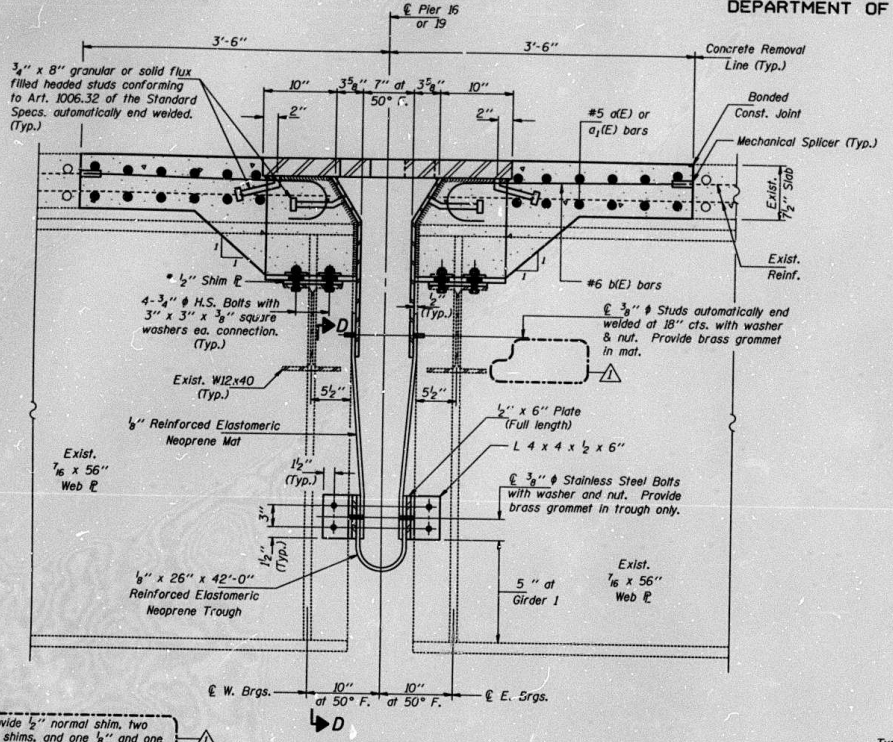
EXPANSION JOINT DETAILS AT PIERS 16 & 19
F.A.P. ROUTE 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317	*	PEORIA & TAZEWELL	303	289
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

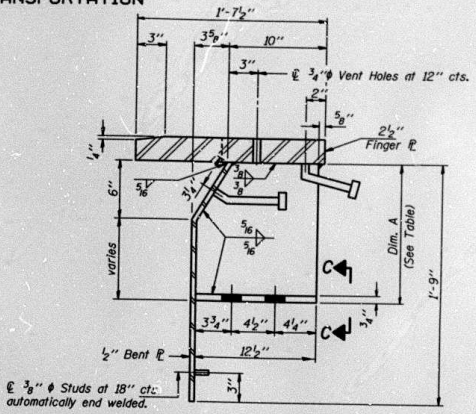
SHEET NO. 15
18 SHEETS

* 15B-1-8, (15B-1)P-1

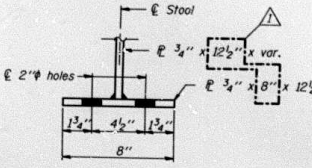


SECTION B-B

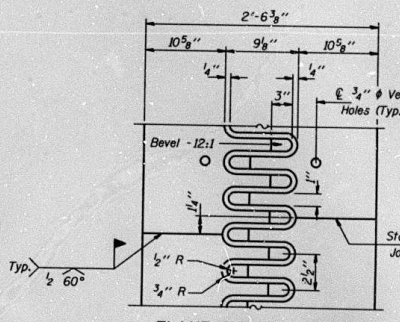
* Provide 1/2" normal shim, two 1/4" shims, and one 1/8" and one 1/16" shims for height adjustment. Tapered shims shall be added under the stools as req'd. by the Engineer to make a smooth finger joint. Cost shall be included in the cost of "Furnishing & Erecting Structural Steel".



STOOL DETAIL



SECTION C-C



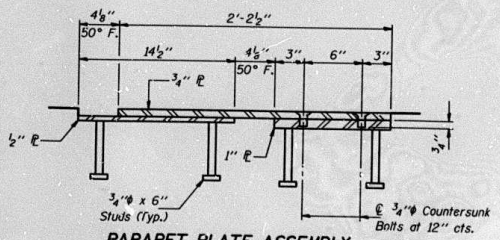
FLAME CUTTING DIAGRAM

Cut from ℄ 2 1/2" x 30 3/8" x 38'-9 5/8" (M270-Gr. 50)
(2 Required)

TABLE FOR DIMENSION A

PIER 16		PIER 19	
Stool	Dim. A	Stool	Dim. A
A	6 1/2"	A	6 1/2"
B	11 1/8"	B	11 1/16"
C	11 1/8"	C	11 1/8"
D	12 5/16"	D	12 5/16"
E	12 3/4"	E	12 3/4"
F	6 1/2"	F	6 1/2"
G	11 3/8"	G	11 3/8"
H	11 1/16"	H	11 1/16"
I	12"	I	12"
J	12 5/16"	J	12 5/16"
K	6 1/2"	K	6 1/2"
L	12 3/16"	L	12 3/16"
M	12"	M	12"
N	11 1/16"	N	11 1/16"
O	11 5/16"	O	11 5/16"
P	6 1/2"	P	6 1/2"
Q	12 3/16"	Q	12 3/16"
R	12 1/4"	R	12 1/4"
S	11 1/8"	S	11 1/8"
T	11 1/16"	T	11 1/16"
U	6 1/2"	U	6 1/2"

Notes: For Stool locations, see Sheet 16 of 18.
For View D-D, see Sheet 17 of 18.



PARAPET PLATE ASSEMBLY

DESIGNED	NJS
CHECKED	KPS
DRAWN	D-Herbert
CHECKED	KPS NJS RTB

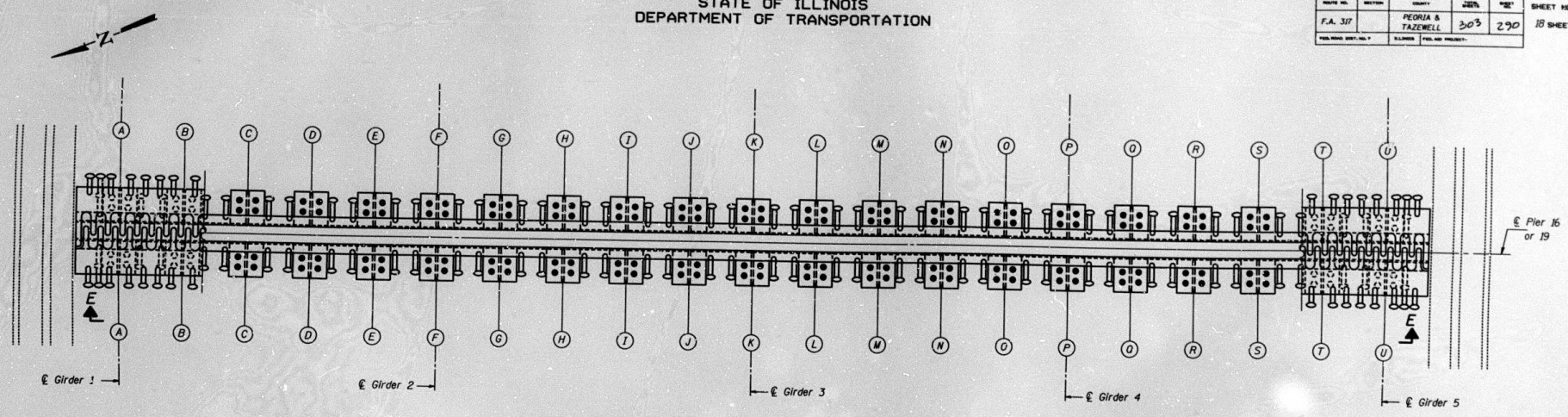
APRIL 9, 1999
EXAMINED John A. Morris ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

EXPANSION JOINT DETAILS AT PIERS 16 & 19
F.A.P. ROUTE. 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

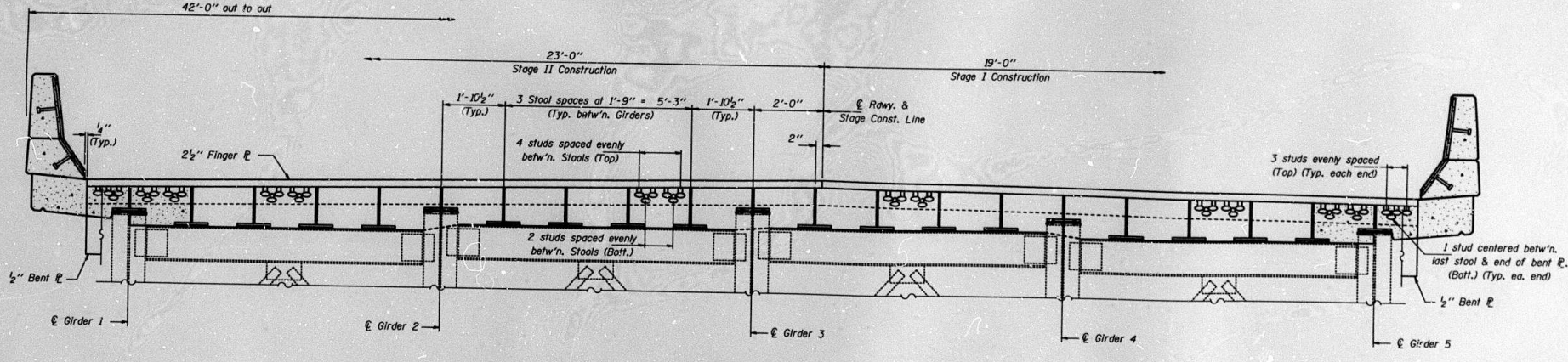
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317		PEORIA & TAZEWELL	303	290
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 16
18 SHEETS



PLAN



SECTION E-E

DESIGNED	NJS
CHECKED	KPS
DRAWN	D.Herbert
CHECKED	KPS NJS RTB

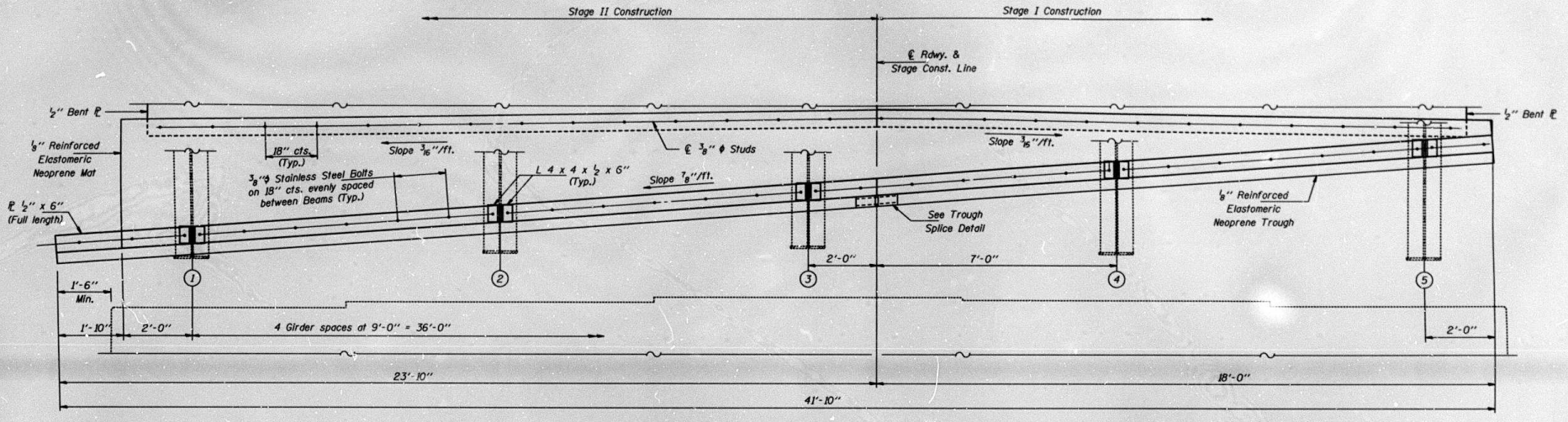
APRIL 9, 1999
EXAMINED John A. Morris
Chief ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

EXPANSION JOINT DETAILS AT PIERS 16 & 19
F.A.P. ROUTE. 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

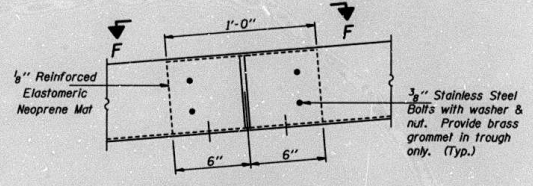
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317		PEORIA & TAZEWELL	303	291
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT=		

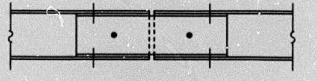
SHEET NO. 17
18 SHEETS



VIEW D-D



TROUGH SPLICE DETAIL



VIEW F-F

DESIGNED	NJS
CHECKED	KPS
DRAWN	D.Herbert
CHECKED	KPS NJS RTB

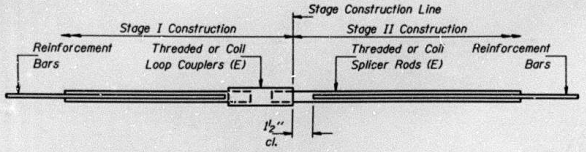
APRIL 9, 1999
EXAMINED John A. Morris
ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

TROUGH DETAILS AT PIERS 16 & 19
F.A.P. ROUTE. 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

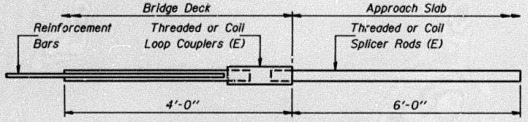
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 317		PEORIA & TAZEWELL	303	292
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT -		

SHEET NO. 18
18 SHEETS



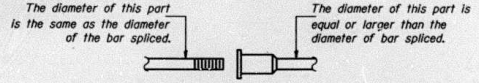
SPLICER DETAIL

Bar Size	No. Assemblies Required	Location
#5	24	Pier 10
#5	20	Truss PP 21
#5	24	Pier 13
#5	24	Pier 16
#5	24	Pier 19



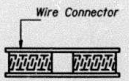
INTEGRAL ABUTMENT BAR SPLICER ASSEMBLY DETAIL FOR #15 BAR

Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



ROLLED THREAD DOWEL BAR

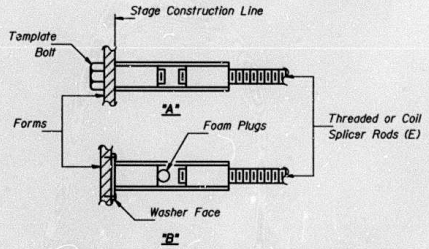
** ONE PIECE



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times fs_{allow} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
		Strength Requirements	
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

DESIGNED	NJS
CHECKED	KPS
DRAWN	John F. Schneller Jr.
CHECKED	NJS KPS RTB

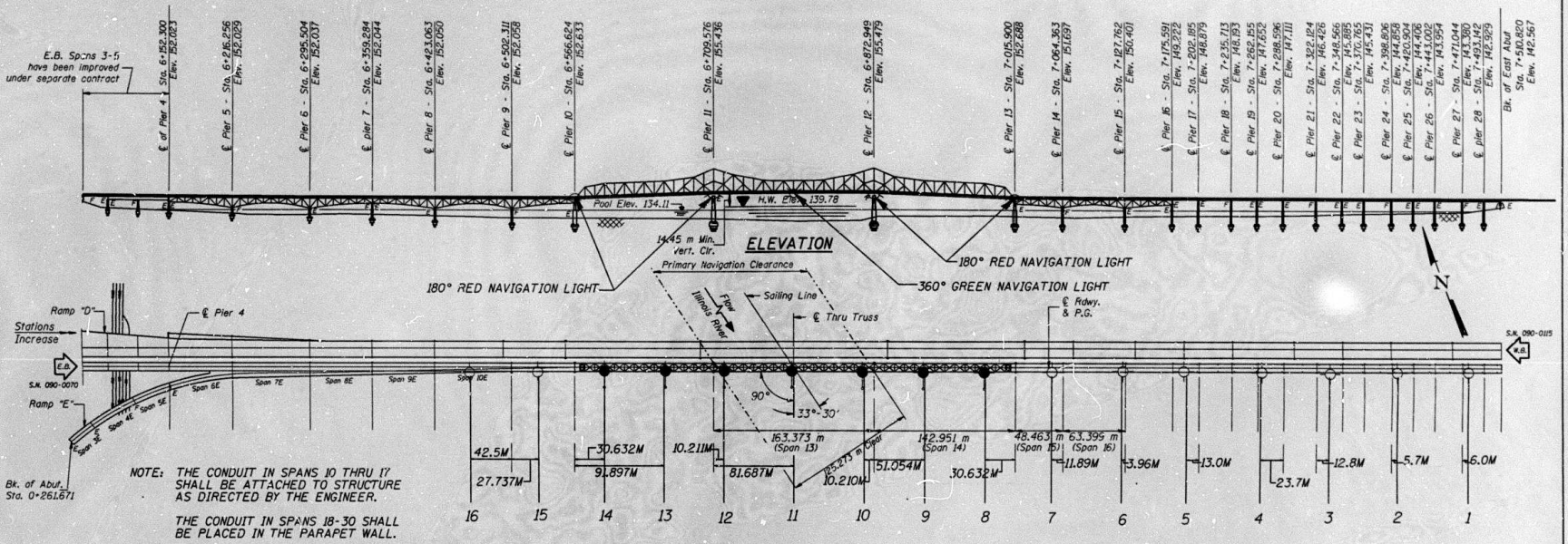
APRIL 9. 1999
EXAMINED John A. Morris ENGINEER OF STRUCTURAL SERVICES
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

RSD-1 4-30-97

BAR SPLICER ASSEMBLY DETAILS
F.A.P. ROUTE 317 SECTION (15B-1)P-1
PEORIA AND TAZEWELL COUNTIES
STATION 222+85.77
STRUCTURE NO. 090-0115 (W.B.)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	*	PEO./TAZ.	303	293
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



NOTE: THE CONDUIT IN SPANS 10 THRU 17 SHALL BE ATTACHED TO STRUCTURE AS DIRECTED BY THE ENGINEER.

THE CONDUIT IN SPANS 18-30 SHALL BE PLACED IN THE PARAPET WALL.

BILL OF MATERIALS

METRIC DESCRIPTION	UNIT	QUANTITY TOTALS
UD 2 # 8 XLP, 1 # 8 XLPG 20 P	METER	60
UD 2 # 4 XLP, 1 # 4 XLPG 25 P	METER	60
TRENCH & BACKFILL FOR ELECTRICAL WORK	METER	60
JUNCTION BOX ATTACH. TO STRUCT. (200x150x100) mm S. STEEL	EACH	12
ELECTRIC CABLE IN CONDUIT, 600 V. (XLP) 1/C # 8	METER	2,988
ELECTRIC CABLE IN CONDUIT, 600 V. (XLP) 1/C # 4	METER	3,309
LIGHT POLE ALUMINUM, 12 m M.H. 2.4 m DAVIT ARM	EACH	9
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	16
LIGHTING CONTROLLER TYPE CB - RCS - 60AMP - 480V (DUAL)	EACH	1
LUMINAIRE MOUNTING BRACKET - SPECIAL	EACH	7
ELECTRIC TRANSFORMER, DRY TYPE, 1 PHASE, 480 - 120/240 V.	EACH	1
WATERWAY OBSTRUCTION WARNING LUMINAIRE	EACH	5
ELECTRIC SERVICE INSTALLATION	EACH	1
MAINTENANCE AND REMOVAL OF LIGHTING SYSTEM, COMPLETE	L. SUM	1
REMOVAL OF EXISTING NAVIGATION LIGHTING	EACH	10
CONDUIT ATTACHED TO STRUCTURE, 65 mm DIA., GALV. STEEL	METER	1534
CONDUIT ATTACHED TO STRUCTURE, 65 mm DIA., PVC	METER	772
CONCRETE FOUNDATION, TYPE A	METER	1

PLAN

1358.520 m ℄ Pier 4 to Back of East Abutment

SCHEDULE OF POLE TYPES AND LOCATIONS

POLE NO.	LOCATION	TYPE
1	STA. 7+477.044	CONCRETE PEDESTAL MOUNTED
2	STA. 7+404.506	CONCRETE PEDESTAL MOUNTED
3	STA. 7+334.924	CONCRETE PEDESTAL MOUNTED
4	STA. 7+264.896	CONCRETE PEDESTAL MOUNTED
5	STA. 7+189.185	CONCRETE PEDESTAL MOUNTED
6	STA. 7+123.802	STEEL BRACKET MOUNTED
7	STA. 7+052.473	STEEL BRACKET MOUNTED
8	STA. 6+985.268	MAST ARM MOUNTED ON TRUSS
9	STA. 6+924.003	MAST ARM MOUNTED ON TRUSS
10	STA. 6+862.739	MAST ARM MOUNTED ON TRUSS
11	STA. 6+791.263	MAST ARM MOUNTED ON TRUSS
12	STA. 6+719.787	MAST ARM MOUNTED ON TRUSS
13	STA. 6+658.521	MAST ARM MOUNTED ON TRUSS
14	STA. 6+597.256	MAST ARM MOUNTED ON TRUSS
15	STA. 6+530.048	STEEL BRACKET MOUNTED
16	STA. 6+459.811	STEEL BRACKET MOUNTED

LEGEND

- LIGHTING CONTROLLER TYPE CB-RCS 60 AMP - 480V (DUAL)
- 250 WATT H.P.S. HORIZONTAL MOUNT LUMINAIRE, SPECIAL BRACKET MOUNT. LIGHT DISTRIBUTION TYPE MS-3
- 12.0 m (40') M.H., 2.4 m (8'-0") DAVIT ARM, ALUMINUM LIGHT POLE W/ 250 WATTH.P.S. HORIZONTAL MOUNT LUMINAIRE. LIGHT DISTRIBUTION TYPE MS-3
- 180 DEGREE, DUAL LAMP CAVITY, RED NAVIGATION LIGHT
- 360 DEGREE, DUAL LAMP CAVITY, GREEN NAVIGATION LIGHT

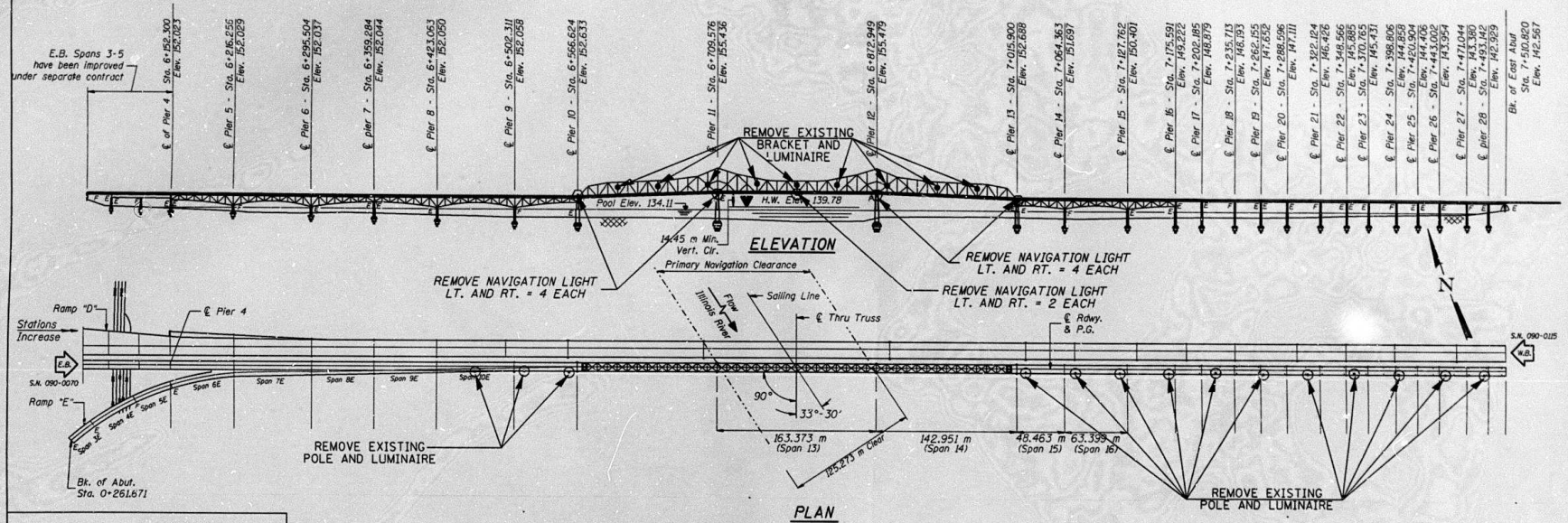
REVISIONS	
NAME	DATE

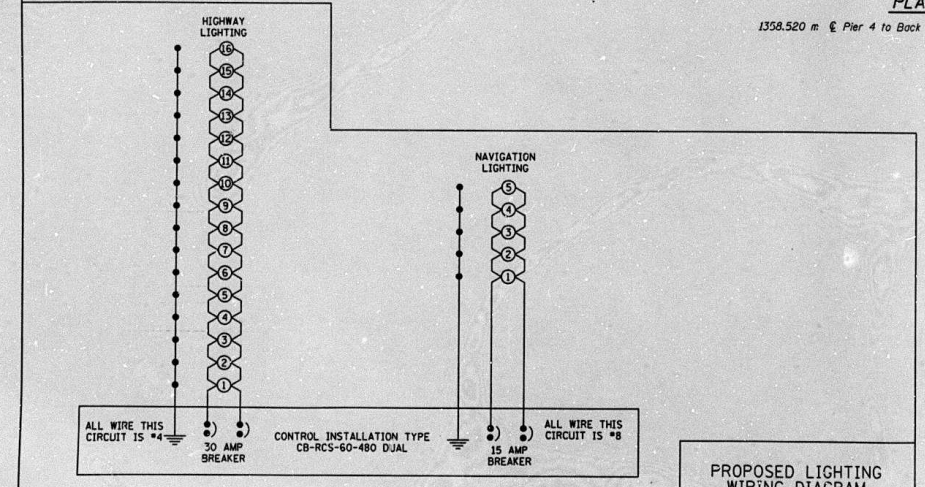
ILLINOIS DEPARTMENT OF TRANSPORTATION

HIGHWAY LIGHTING AND NAVIGATION LIGHTING McCLUGAGE BRIDGE (E.B.) U.S. 150 AND U.S. 24 OVER THE ILLINOIS RIVER STRUCTURE NO. 090-0070 (E.B.)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	*	PEO./TAZ.	303	294
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





LEGEND

*	⊙ REMOVE EXISTING POLE AND LUMINAIRE	= 14 EACH
*	● REMOVE EXISTING TRUSS MOUNT BRACKET AND LUMINAIRE	= 9 EACH
		TOTAL = 23 EACH
	⊙ REMOVE EXISTING NAVIGATION LIGHTING	= 10 EACH

* PART OF MAINTENANCE AND REMOVAL OF LIGHTING SYSTEM, COMPLETE

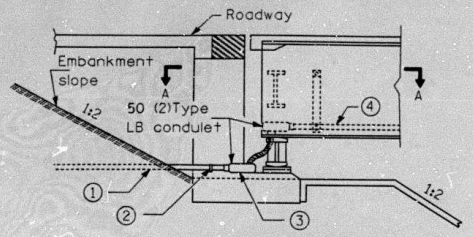
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

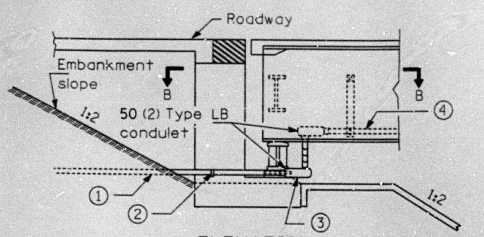
REMOVAL OF EXISTING HIGHWAY AND NAVIGATION LIGHTING AND PROPOSED LIGHTING WIRING DIAGRAM

McCLUGAGE BRIDGE (E.B.) U.S. 150 AND U.S. 24 OVER THE ILLINOIS RIVER

STRUCTURE NO. 090-0070 (E.B.)



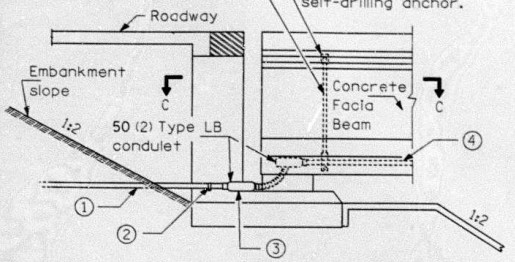
ELEVATION



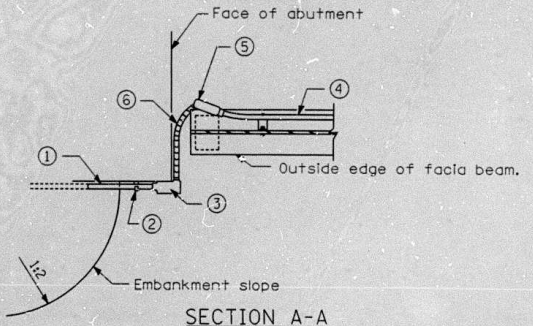
ELEVATION

25 (1/2) Galvanized or stainless steel hanger rod on 1.5 m (5') maximum centers. Support conduit 100 to 200 (4 to 8) above lower edge of facia beam.

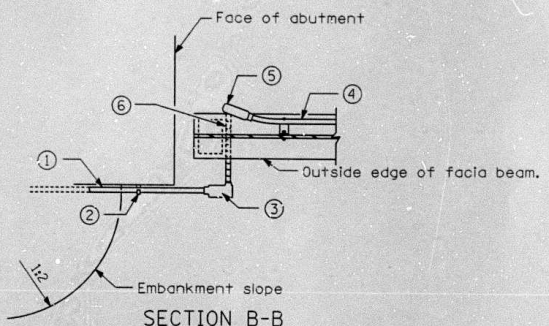
Insert or an approved self-drilling anchor.



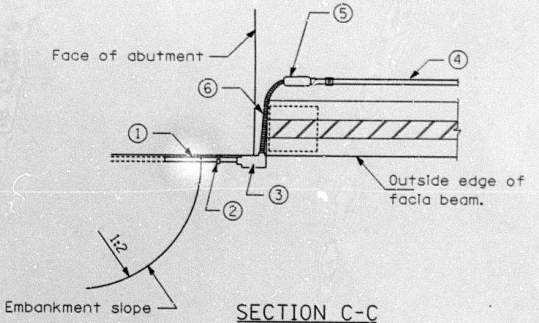
ELEVATION



SECTION A-A



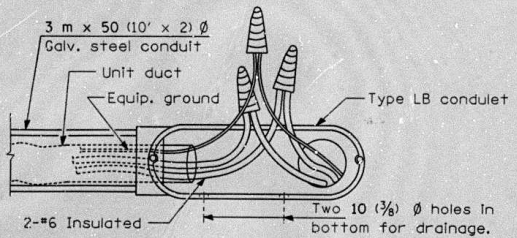
SECTION B-B



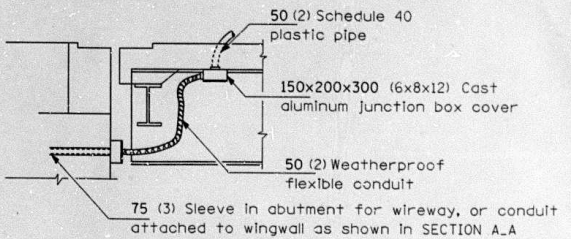
SECTION C-C

NOTES

1. 3 m x 50 (10' x 2) Ø Galv. steel conduit
2. Cast malleable iron or stainless steel conduit clamp
3. Drill two 10 (3/8) Ø holes in bottom side of LB conduilet for drainage. Extend unit duct into LB conduilet 50 to 75 (2) to (3). (See DETAIL A).
4. 50 (2) Galv. steel conduit
5. Do not extend LB conduilet beyond end of facia beam.
6. Liquid tight flexible conduit

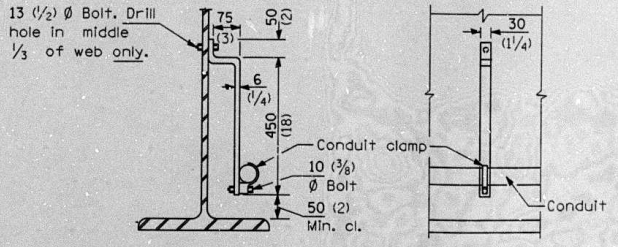


DETAIL A



SECTION AT ABUTMENTS

All dimensions are in millimeters unless otherwise shown.



CONDUIT SUPPORT BRACKET

Illinois Department of Transportation

PASSED January 1, 1997

ENGINEER OF POLICY AND PROCEDURES

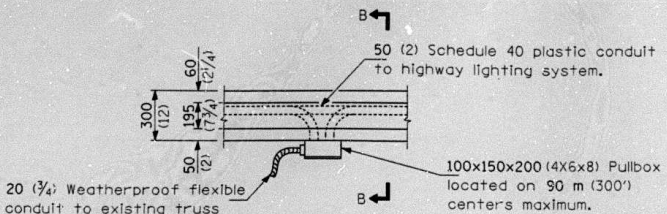
APPROVED January 1, 1997

ENGINEER OF DESIGN AND ENVIRONMENT

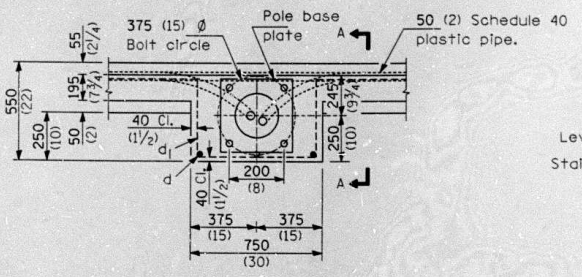
ISSUED

DATE	REVISIONS

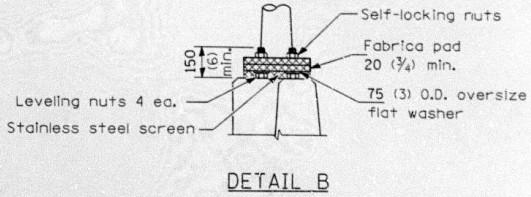
BRIDGE CROSSING DETAILS



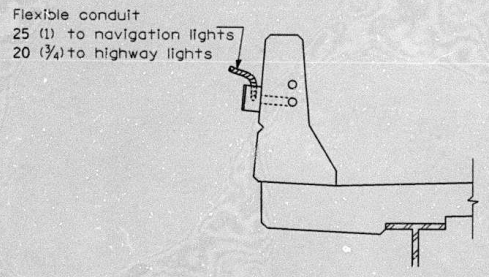
PLAN



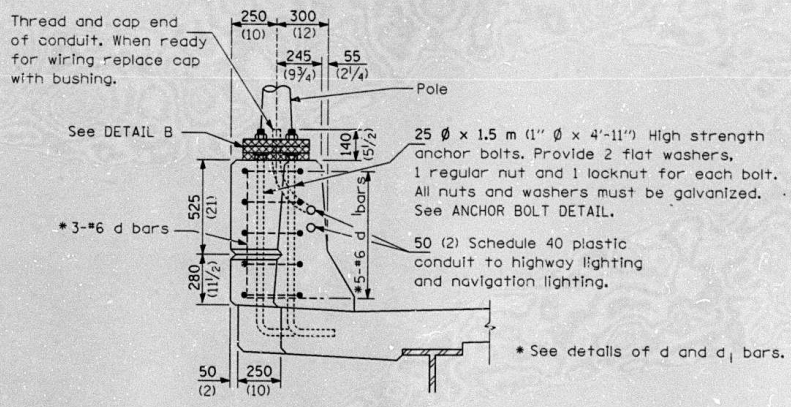
PLAN



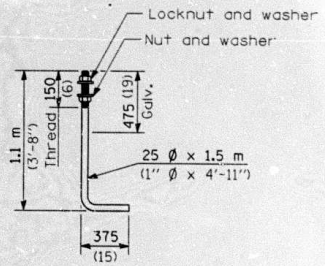
DETAIL B



SECTION B-B



SECTION A-A



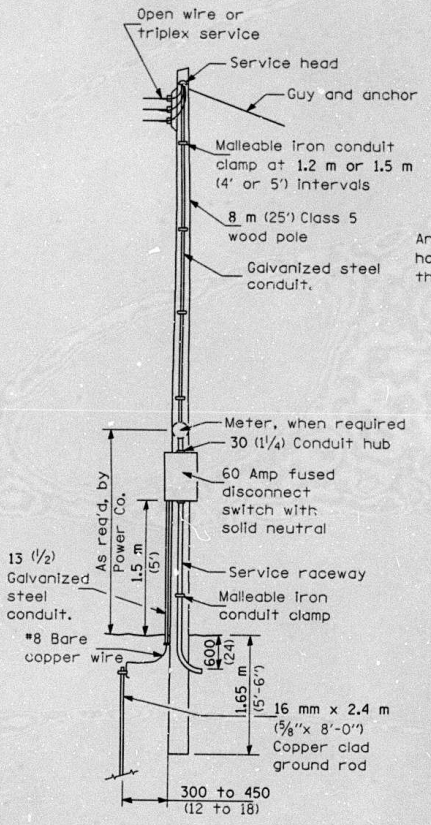
ANCHOR BOLT DETAIL

All dimensions are in millimeters unless otherwise shown.

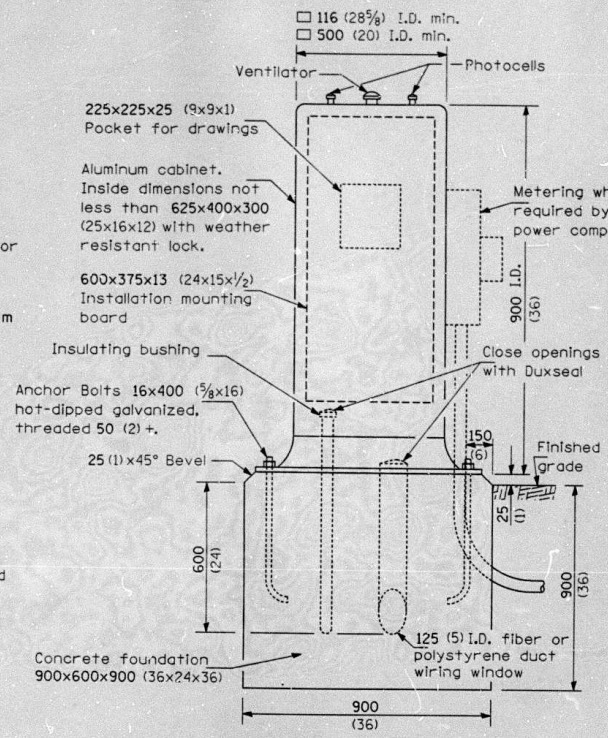
Illinois Department of Transportation		
PASSED January 1, 1997		ISSUED
ENGINEER OF POLICY AND PROCEDURES		
APPROVED January 1, 1997		
ENGINEER OF DESIGN AND ENVIRONMENT		

DATE	REVISIONS

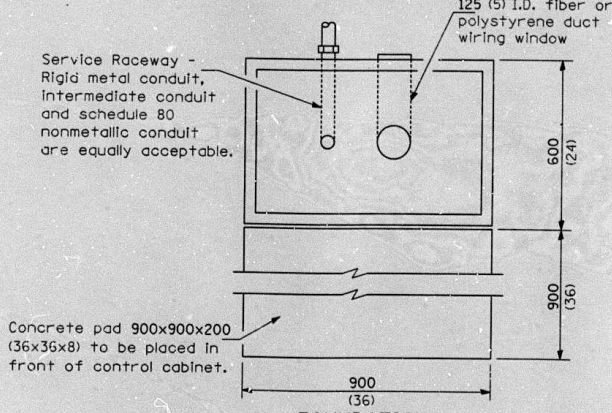
CONDUIT IN PARAPET DETAILS



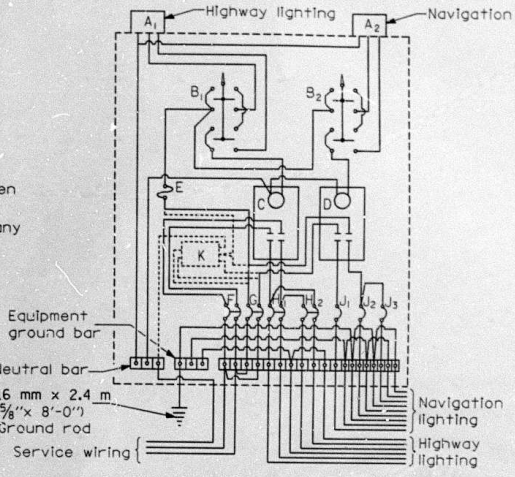
SERVICE POLE



CONTROL INSTALLATION
(FRONT VIEW)



FOUNDATION
(TOP VIEW)



WIRING DIAGRAM

A_1, A_2 Photocells w/integral surge arrestors
B_1, B_2 Selector switch
C Contactor
- □ 60A., 2 pole, 240V.
- □ 60A., 2 pole, 480V.
- □ 100A., 2 pole, 240V.
- □ 100A., 2 pole, 480V.
- □ 150A., 2 pole, 240V.
- □ 150A., 2 pole, 480V.
- □ 200A., 2 pole, 240V.
- □ 200A., 2 pole, 480V.

D Contactor, 30A., 2 pole, 240V.
E 10A., Control fuse or 15A. ckt. breaker
F
- □ 60A., 2 pole, main breaker
- □ 100A., 2 pole, main breaker
- □ 150A., 2 pole, main breaker
- □ 200A., 2 pole, main breaker

G 30A., 2 pole, main breaker
H_1, H_2
- □ 20A., 2 pole, branch c.b's. ( ) required
- □ 30A., 2 pole, branch c.b's. ( ) required
- □ 40A., 2 pole, branch c.b's. ( ) required
- □ 50A., 2 pole, branch c.b's. ( ) required

J_1, J_2, J_3 20A., 1 pole, branch c.b's.
K Transformer, single phase, ( )KVA, 480V. primary, 120/240V., 1Ø, 3W. secondary, required w/480V. service wiring to be revised as shown dotted.

□ 240 V. SERVICE
☒ 480 V. SERVICE

GENERAL NOTES

Wiring shall be panel board fashion. All bends shall be right angles. All runs shall vertical or parallel to panel board. Wires shall be grouped or laced.

All control installation components shall be U.L. listed.

Label equipment ground and neutral.

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Exact location shall be established by the Engineer.

The underground service entrance wiring shall not exceed 46 m (150'). Total aerial and underground service between the control installation and primary transformer shall not exceed 76 m (250').

Raceways shall terminate 75 (3) above top of concrete foundation.

For 480 V. systems, a 480/120 V. control transformer will be required.

All dimensions are in millimeters unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 1997
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 1997
ENGINEER OF DESIGN AND ENVIRONMENT

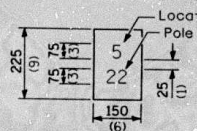
ISSUED

DATE	REVISIONS

CONTROL INSTALLATION DUAL

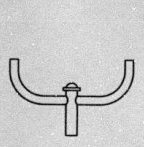
"Install and orient arm bracket over pole tenon and firmly hand tighten the two set screws. Use third hole in arm bracket as a guide to drill a 8.3 (5/16) diameter hole through tenon. Install and tighten self-tapping screw. Tighten set screws an additional (1/4 to 3/8) turn with hex key (not provided). Install locknuts on set screws if threaded projection allows."

Pole shall meet AASHTO Standard Specifications for 128.72 km (80 mph) wind loading and 40.82 kg (90 lb.), .37 m² (4.0 sq. ft.) E.P.A. luminaire.

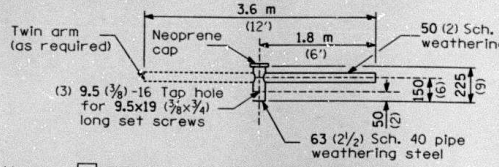


The contractor shall furnish and install a light pole identification of each new light pole, as shown above, incidental to the respective light pole pay item. The numerals shall be 75 (3) series "D", black, screened on silver-white type B pressure sensitive reflective sheeting conforming to the requirements of section T602.01 of the Standard Specifications for Traffic Control Items. The numerals shall conform to the FHWA "Standard Alphabets for Highway Signs".

The light pole identification shall be applied to sign base material as specified in section 1085.05 of the Standard Specifications, approximatey 180 (7) above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 2319.

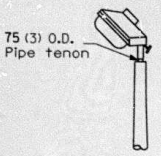


☐ TWIN TENON

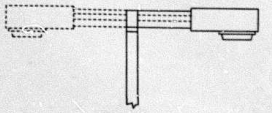


☐ TENON MOUNT BRACKET ARM

NOTE: Single or twin arm assembly shall be tilted 3° above horizontal.

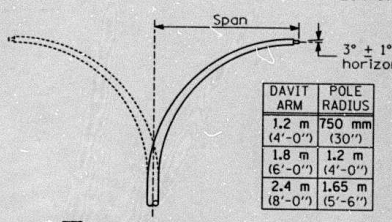


☐ TENON



☐ SHORT BRACKET

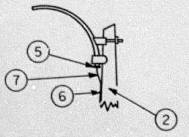
☐ SHORT BRACKET - TWIN



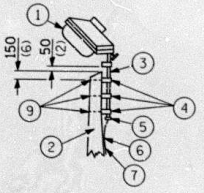
DAVIT ARM	POLE RADIUS
1.2 m (4'-0")	750 mm (30")
1.8 m (6'-0")	1.2 m (4'-0")
2.4 m (8'-0")	1.65 m (5'-6")

☒ DAVIT ARM (and or)

☐ DAVIT ARM-TWIN

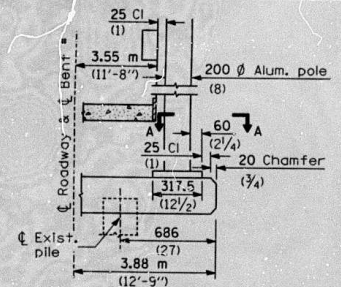


☐ MAST ARM

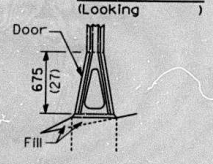


☐ TENON

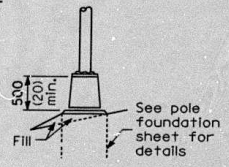
1. Luminaire
2. Wood pole, class 3 or better
3. 63 (2 1/2) Galv. steel conduit
4. Single offset pole band
5. Conduit bushing
6. Cable clamps on 600 (24) centers
7. 2/c #12 Type use cable
8. 25 (1) Galv. steel conduit 3.0 m (10') in length
9. 16 (5/8) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
10. Conduit clamps on 900 (36) centers
11. Unit duct
12. Threaded reducer
13. "C" Conduiet, threaded
14. 40 (1 1/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.



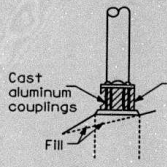
BENT #
(Looking)



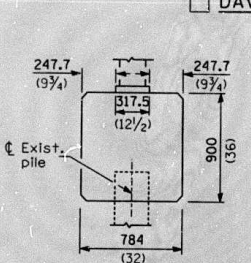
☐ STAINLESS STEEL FLAIR BASE



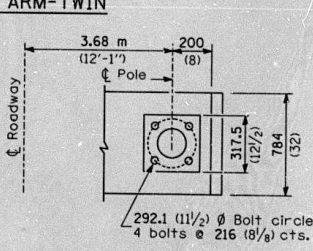
☐ TRANSFORMER BASE



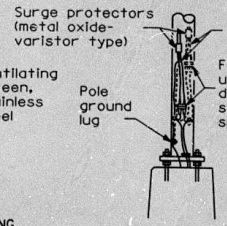
☐ BREAKAWAY COUPLING



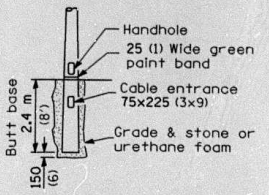
☐ BRIDGE PIER MOUNT



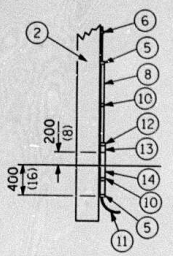
SECTION A-A



☐ ANCHOR



☐ BUTT BASE



POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

☐ POLE, WOOD

All dimensions are in millimeters (inches) unless otherwise shown.

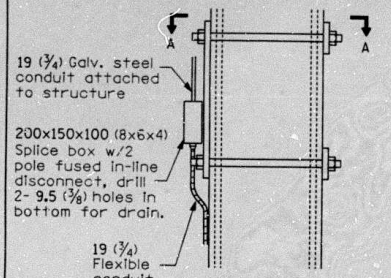
☐ FRANGIBLE

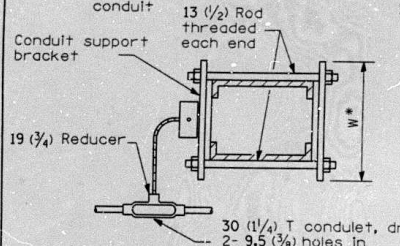
☐ METAL OR ☐ CONCRETE

Details for underground distribution if required

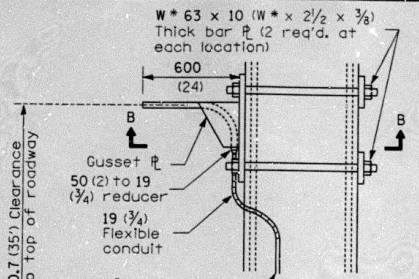
DATE	REVISIONS

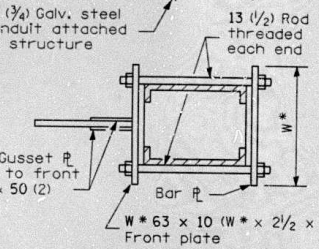
POLE STANDARDS



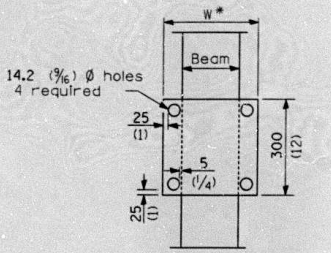


SECTION A-A



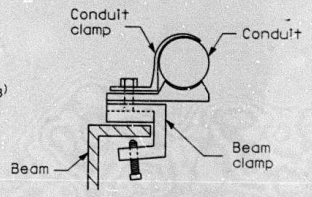


SECTION B-B

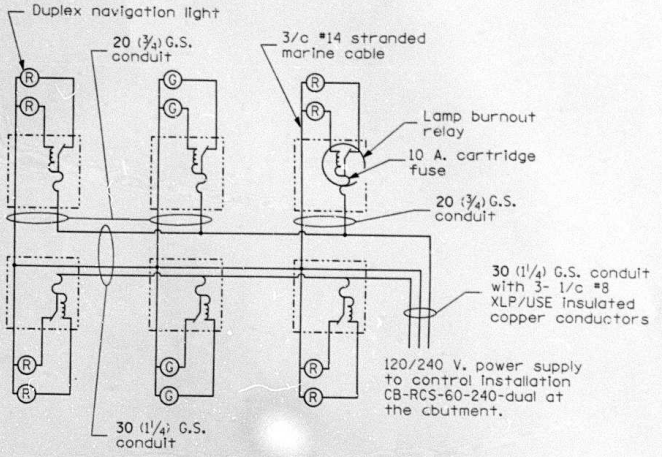


* Dimension W = width of beam + 92 (3 5/8)

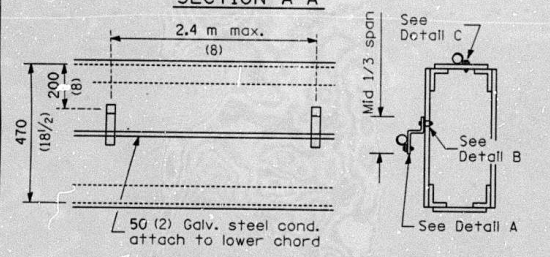
FRONT PLATE DETAIL



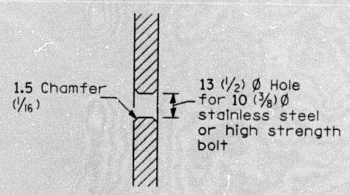
DETAIL C



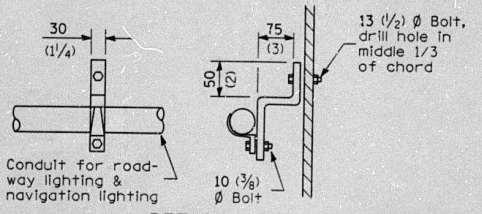
WIRING DIAGRAM FOR NAVIGATION LIGHTING



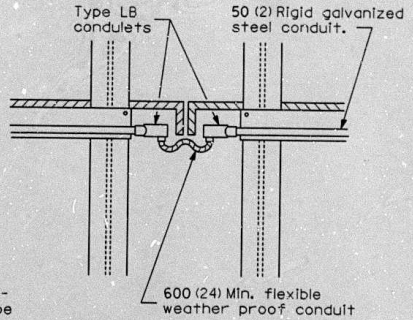
MAST ARM MOUNTING DETAILS



DETAIL B

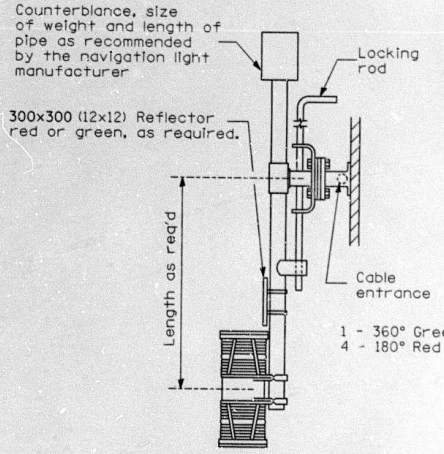


DETAIL A **



EXPANSION JOINT DETAIL

(Use same method to bypass other obstructions.)



NAVIGATION LUMINAIRE

All dimensions are in millimeters (inches) unless otherwise shown.

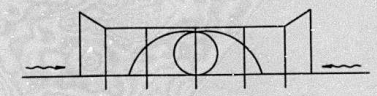
** Conduit clamps shall be malleable iron. Bolts, lock-nuts and washers shall be stainless steel. 5 (1/4) steel bracket shall be hot dipped galvanized after fabrication. Location on 1.8 m (6') cts.

DATE	REVISIONS

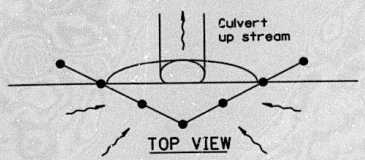
NAVIGATION LIGHTING w/COUNTERBALANCE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	*	PEO./TAZ.		300
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*15B-1-8,15B-12-1

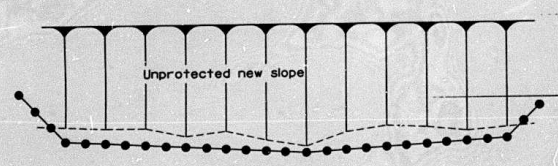


FRONT VIEW

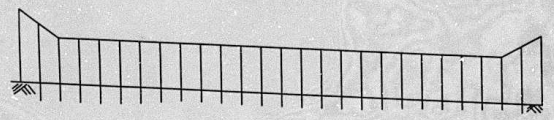


TOP VIEW

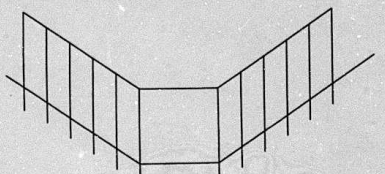
UPSTREAM PIPE CULVERT EROSION CONTROL



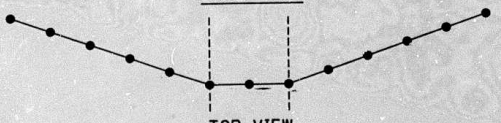
TOP VIEW



FRONT VIEW

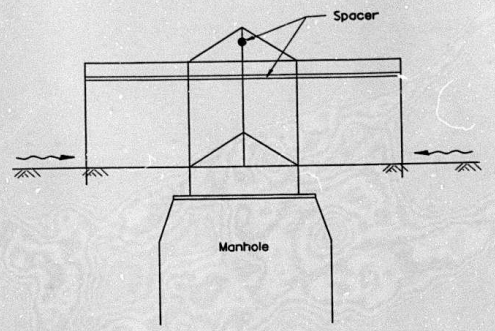


FRONT VIEW

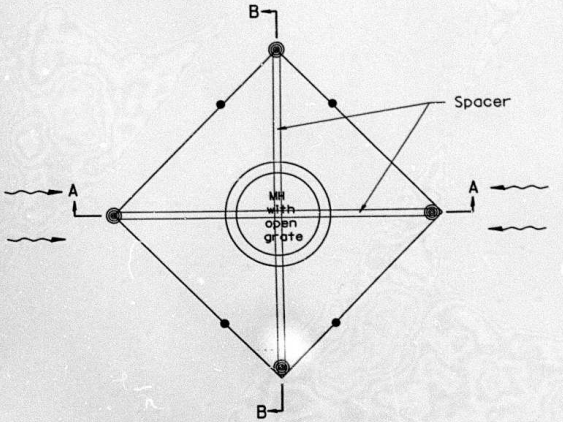


TOP VIEW

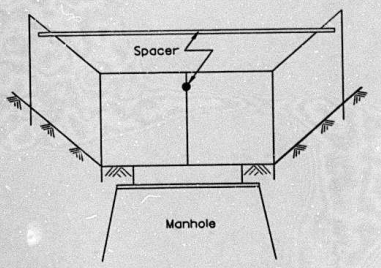
DITCH LINE EROSION CONTROL



SIDE VIEW
A-A



TOP VIEW



Front View
B-B

EROSION CONTROL
AT
OPEN GRATE MAN HOLE

General Notes:

1. This work shall be performed in accordance with Sections 280 & 1081, of the Standard Specifications.
2. Additional timber or metal posts shall be installed, as needed.

All dimensions are in millimeters (inches) unless otherwise noted.

Designer Notes:
1. Designer to modify this Special Detail sheet, as needed, for inclusion in plans.
2. Include Highway Standard 280001 "TEMPORARY EROSION CONTROL SYSTEM."

10/21/96

DATE	REVISIONS	BY
1-1-97	RENUM. A-12.05, NEW REVISION BOX	T.P.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SPECIAL DETAIL SHEET

TYPICAL APPLICATION
OF
SILT FILTER FENCE

CADD DETAIL 280001-D4
SCALE: NOT DRAWN TO SCALE
DATE 10/21/96

DRAWN BY CADD
CHECKED BY

280001-D4

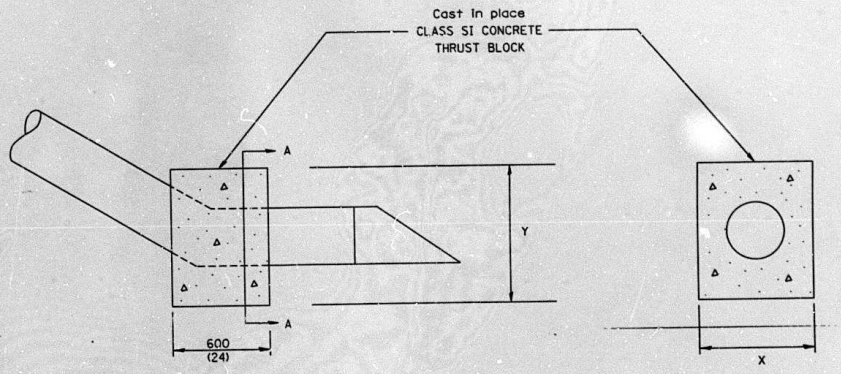
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	*	PEO./TAZ.		301
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*15B-1-8,15B-1)P-1

DESIGNER NOTES:
1. A THRUST BLOCK SHALL BE INSTALLED WHEN THE DIFFERENCE BETWEEN THE UPSTREAM AND DOWNSTREAM INVERT ELEVATIONS EXCEEDS 900(36) AND GRADE EXCEEDS 10%.
   USE WITH DISTRICT CADD STANDARDS: "DITCH CHECK," IF NEEDED. DO NOT USE WITH DISTRICT CADD STANDARDS:
2. "SLOPE DRAIN DETAILS FOR BURIED PIPE" "SLOPE DRAIN DETAILS FOR EXPOSED PIPE".

CONCRETE THRUST BLOCK
BILL OF MATERIALS

PIPE SIZE	X	Y	CLASS SI CONCRETE m^3(cu. yd.)
300(12)	600(24)	600(24)	0.2(0.2)
375(15)	675(27)	675(27)	0.2(0.3)
450(18)	750(30)	750(30)	0.2(0.3)
600(24)	900(36)	900(36)	0.3(0.4)
750(30)	1.07m (3'-6")	1.07m (3'-6")	0.6(0.8)



SIDE VIEW

SECTION A-A

The contract unit price each for CONCRETE THRUST BLOCK shall include the cost of excavation, CLASS SI CONCRETE and compacted backfill.

All dimensions are in millimeters (inches) unless otherwise noted.

QUANTITIES	
CALC. BY:	DATE:
CHECKED BY:	DATE:

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

11/01/96

DATE	REVISIONS	BY
1-1-97	RENUM. J-10.04, NEW REVISION BOX.	T.P.
	ADDED QUANTITY CALCULATION BOX.	

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

CONCRETE THRUST BLOCKS

CADD STD. NO. 609001-D4
SCALE: NOT DRAWN TO SCALE
DATE 11/01/96
DRAWN BY CADD
CHECKED BY

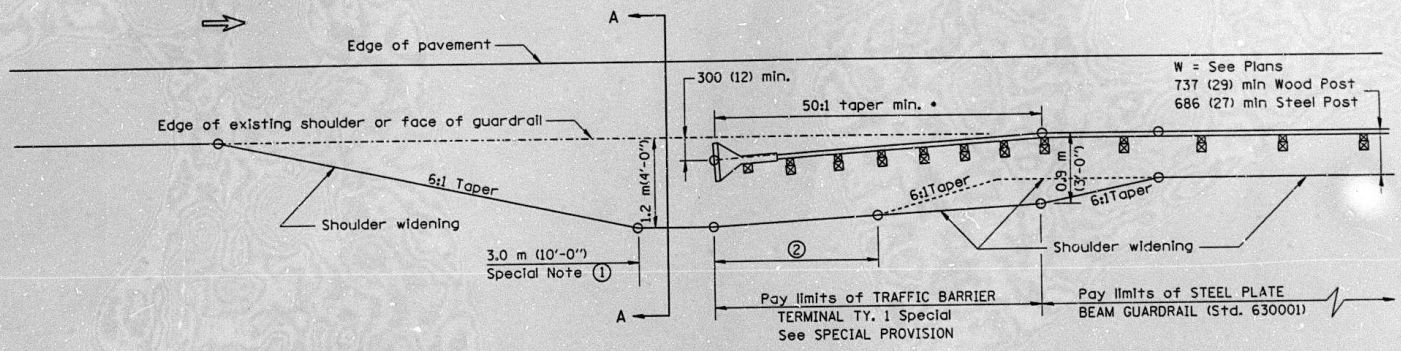
609001-D4

R.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	*	PEO./TAZ.		302
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

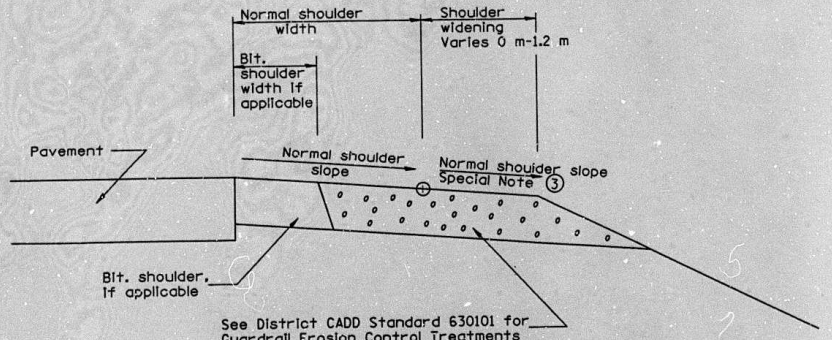
*15B-1-8,(15B-1)P-1

DESIGNER NOTES: 1. INCLUDE DISTRICT SPECIAL PROVISION OR INTERIM SPECIAL PROVISION.
2. USE PLAN SHOULDER WIDENING VALUES UNLESS MINIMUMS CAN BE JUSTIFIED.
3. INCLUDE DISTRICT CADD DRAWING AND SPECIAL PROVISION FOR GUARDRAIL EROSION CONTROL TREATMENTS.

01/26/98



PLAN VIEW



SECTION A-A

SPECIAL NOTES

(1) 900 (36) minimum if justified and specified in plans.

(2) The shoulder widening shall extend a minimum of 7.6 m (25') beyond the end of the terminal barrier.

(3) 1:10 maximum if justified and specified in plans.

* NOTE: 50:1 Taper suggested to keep terminal barrier nose from encroaching on to the shoulder.

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. F-3.04, NEW REVISION BOX	T.P.
2-1-97	CORRECTIONS	L.A.D.
1-26-98	CORRECTIONS	J.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL SHOULDER WIDENING DETAIL

CADD STD. NO. 630201-D4

SCALE: NOT DRAWN TO SCALE — DRAWN BY CADD

DATE 01/26/98 — CHECKED BY

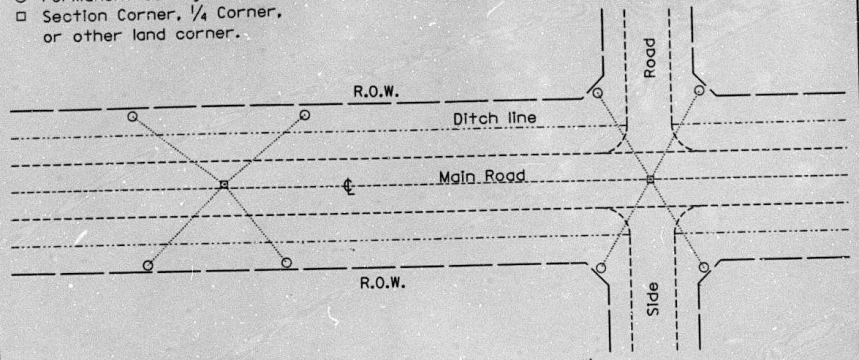
630201-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	*	PEO./TAZ.		303
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*15B-1-8,15B-1JP-1

PERMANENT SURVEY TIES

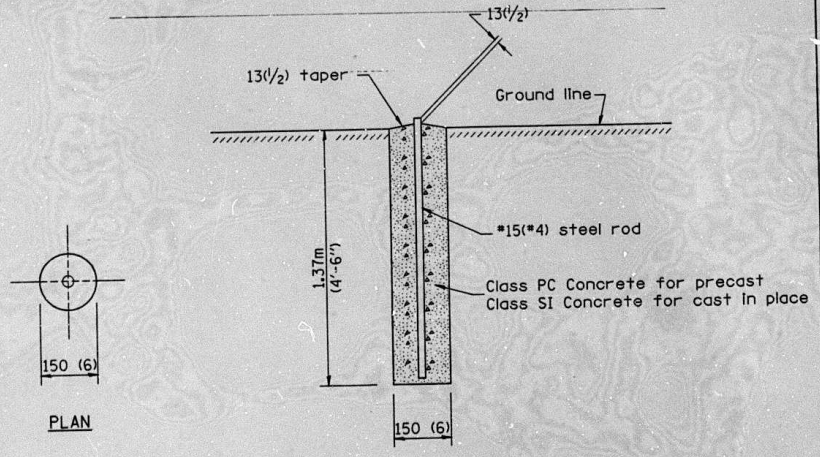
○ Permanent Survey Tie
□ Section Corner, 1/4 Corner, or other land corner.



TYPICAL APPLICATION

GENERAL NOTES

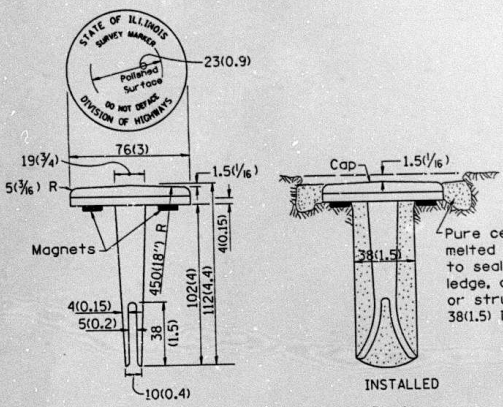
1. The marker may be either precast of Class PC Concrete, or cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the IDOT Chief of Surveys.



PLAN

SECTION

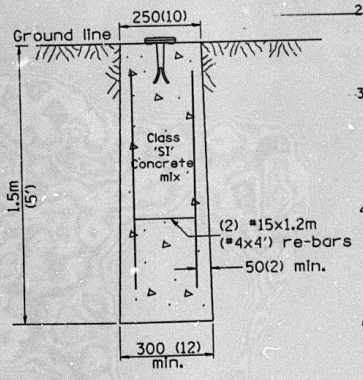
PERMANENT SURVEY MARKERS



BRONZE TABLET - No Scale
TYPE I

GENERAL NOTES

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 19 (3/4) and a thickness of 6 (1/4), or equivalent, shall beattached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s and P.C.'s of horizontal curves and spaces along the tangents in a way that a minimum of two markers are alway inter-visible, and not to exceed 300m(1000').
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.



MARKER CAST IN PLACE
TYPE II

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. D-3.01, NEW REVISION BOX	J.P.
	ADD DESIGNER NOTE, REVISED TITLE BOX	
7-1-96	ADD DESIGNER NOTE	J.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
PERMANENT SURVEY TIE
&
PERMANENT SURVEY MARKERS TY.I - TY.II
CADD STD. NO. 667101-D4
SCALE: NOT DRAWN TO SCALE
DRAWN BY CADD
DATE 07/07/98
CHECKED BY

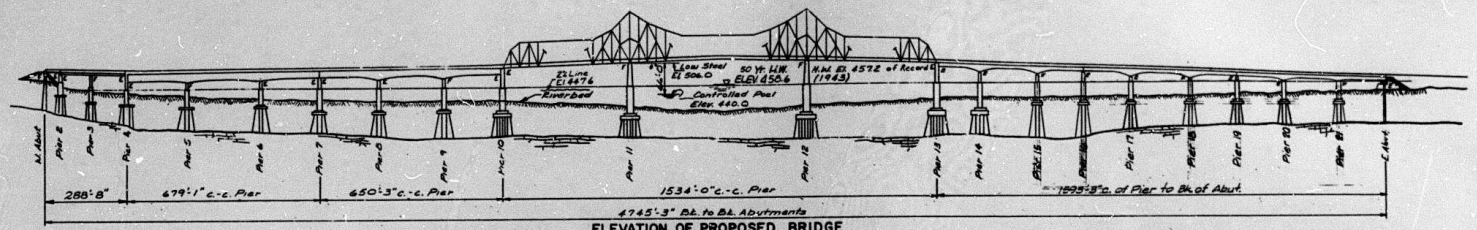
667101-04

DESIGNER NOTE:
1. ADD DISTRICT SPECIAL PROVISION.
2. MODIFIES STATE STD 667101 TO CALL FOR "BRONZE" TABLET.

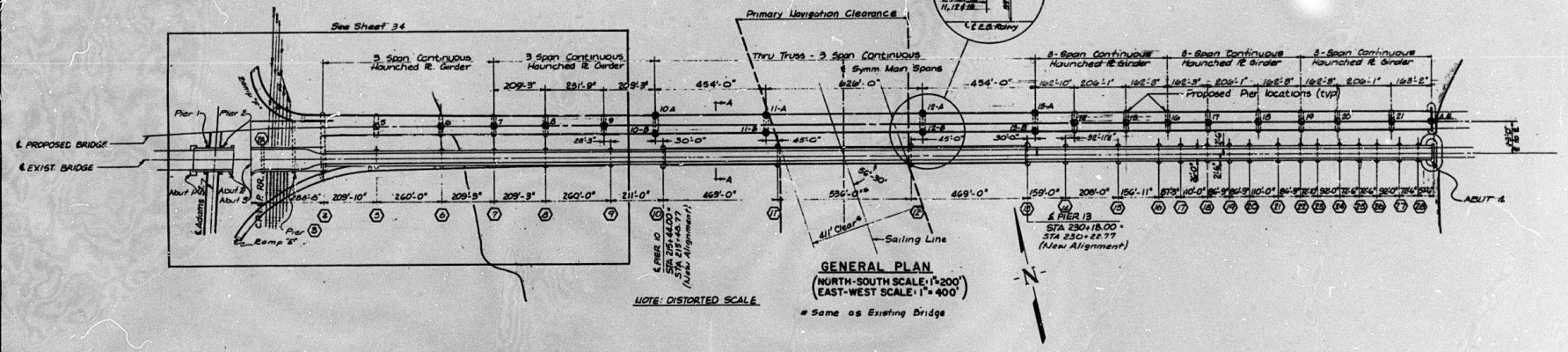
07/07/98

F.A. 81 | Peoria Township

SHEET 303A OF 303 SECTION 16B-1-S, (15B-1)P-1



ELEVATION OF PROPOSED BRIDGE
(VERT. SCALE: 1"=200'
HORIZ. SCALE: 1"=400')



GENERAL PLAN
(NORTH-SOUTH SCALE: 1"=200'
EAST-WEST SCALE: 1"=400')

NOTE: DISTORTED SCALE

* Same as Existing Bridge

(7) Indicates Pier Number of Existing Bridge

LOCATION MAP

BORING PLAN
Mc CLUGAGE BRIDGE
F.A. ROUTE 31
OVER
ILLINOIS RIVER
SEC 15 B-2

DESIGNED UMH
DRAWN CRN
CHECKED BAH
CHECKED UMH

HANSON ENGINEERS INCORPORATED
SPRINGFIELD, ILLINOIS PEORIA, ILLINOIS

FILE NO. 74001
DATE 12-31-74

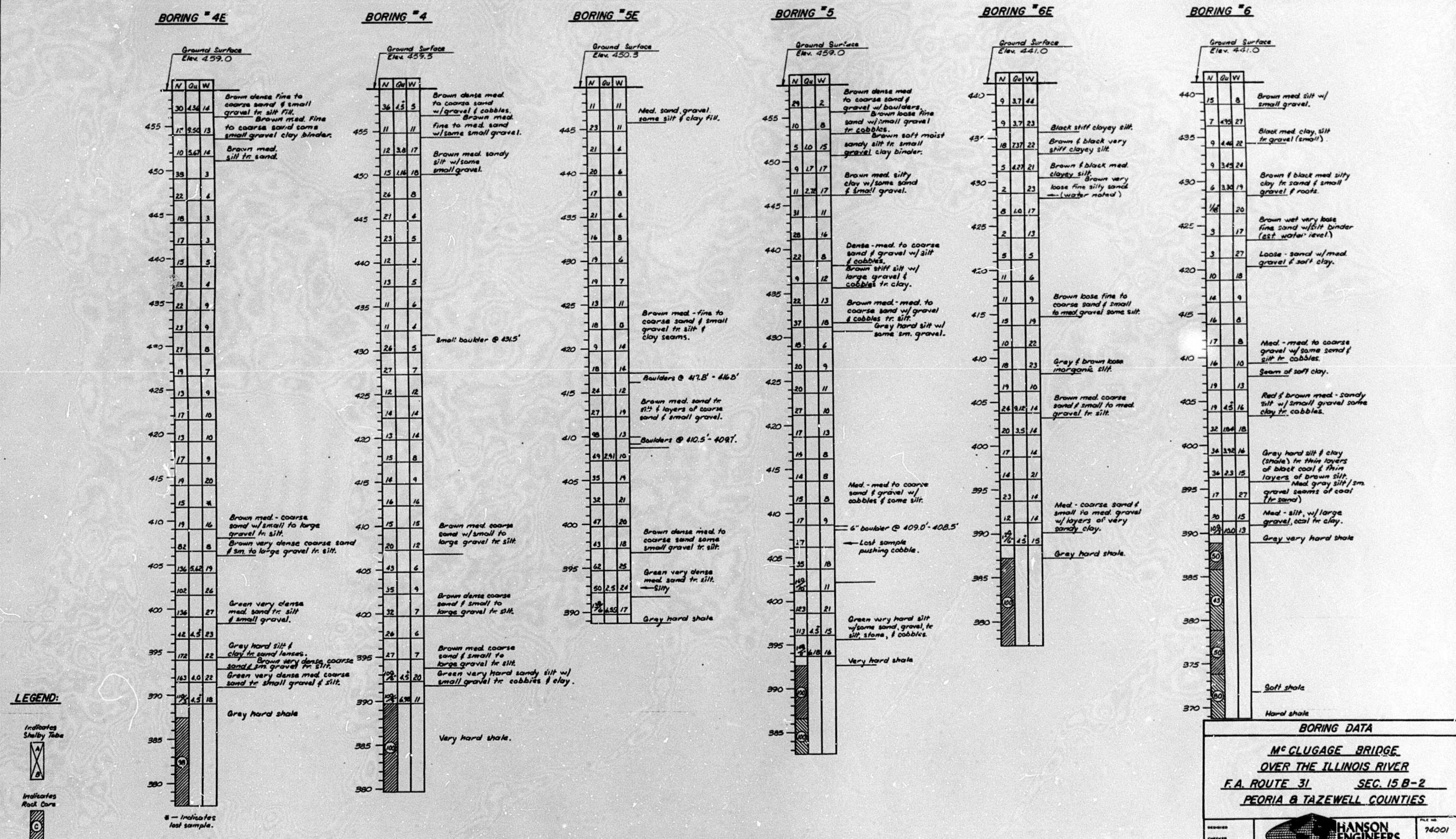
FOR INFORMATION ONLY

ADDED 5-28-75

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 31	[redacted]	Peoria & Tazewell	[redacted]	[redacted]

SHEET 303B OF 303 SECTION 15B-I-8, (15B-1)P-1

BORING DATA



A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

FOR INFORMATION ONLY

BORING DATA

McCLUGAGE BRIDGE OVER THE ILLINOIS RIVER

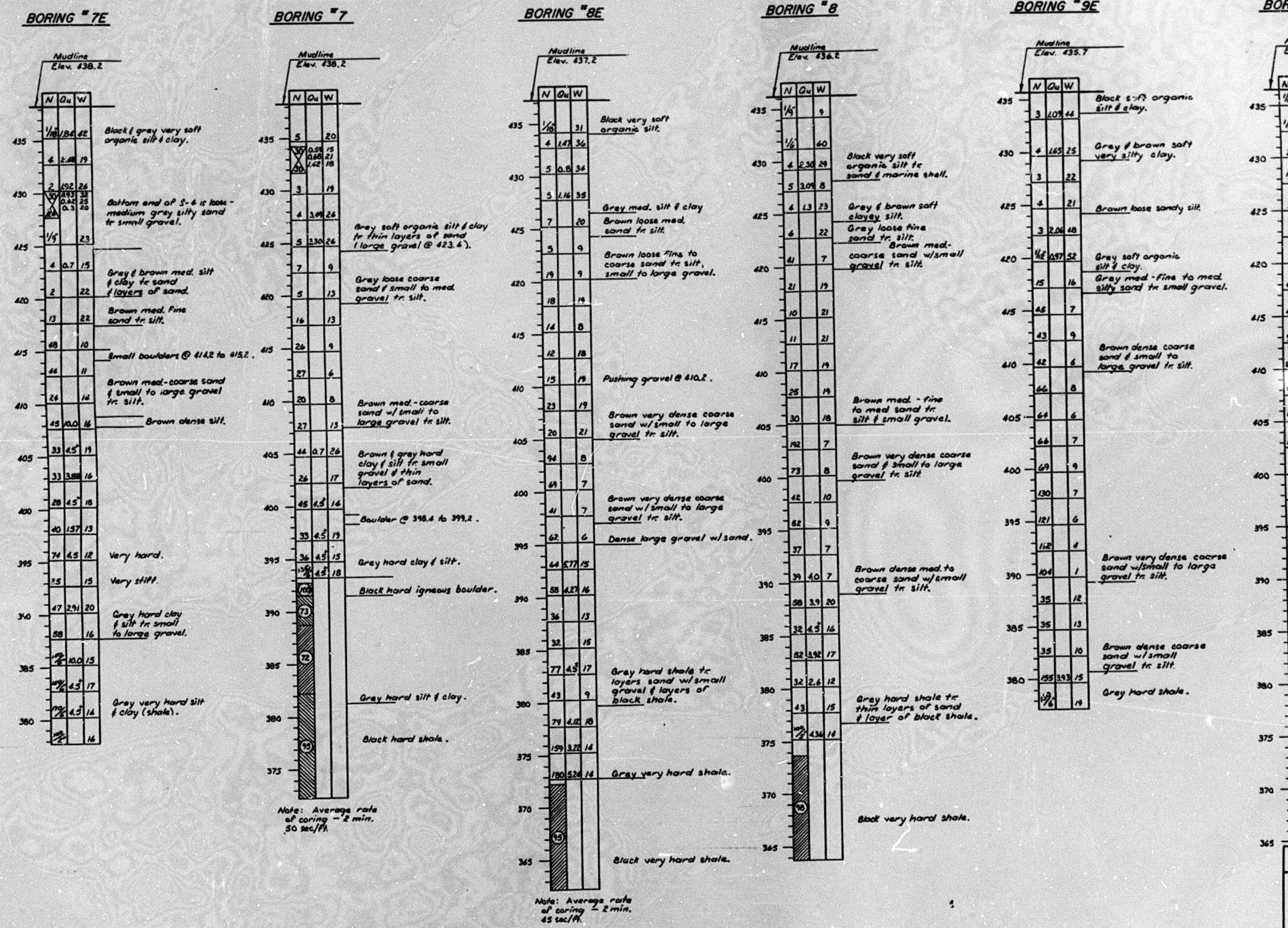
F.A. ROUTE 31 SEC. 15 B-2

PEORIA & TAZEWELL COUNTIES

DESIGNED		HANSON ENGINEERS INCORPORATED	FILE NO. 74001
CHECKED		SPRINGFIELD, ILLINOIS — PEORIA, ILLINOIS	DATE 12-31-74
DRAWN	K.J.F.		
CHECKED	G.F.J.		

ADDED 5-28-95

BORING DATA



LEGEND:

Indicates Shelby Tube

Indicates Rock Core

A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

FOR INFORMATION ONLY

BORING DATA

McCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-2
PEORIA & TAZEWELL COUNTIES

HANSON ENGINEERS INCORPORATED
SPRINGFIELD, ILLINOIS PEORIA, ILLINOIS

Drawn: RJF
Checked: GFJ
File No. 74001

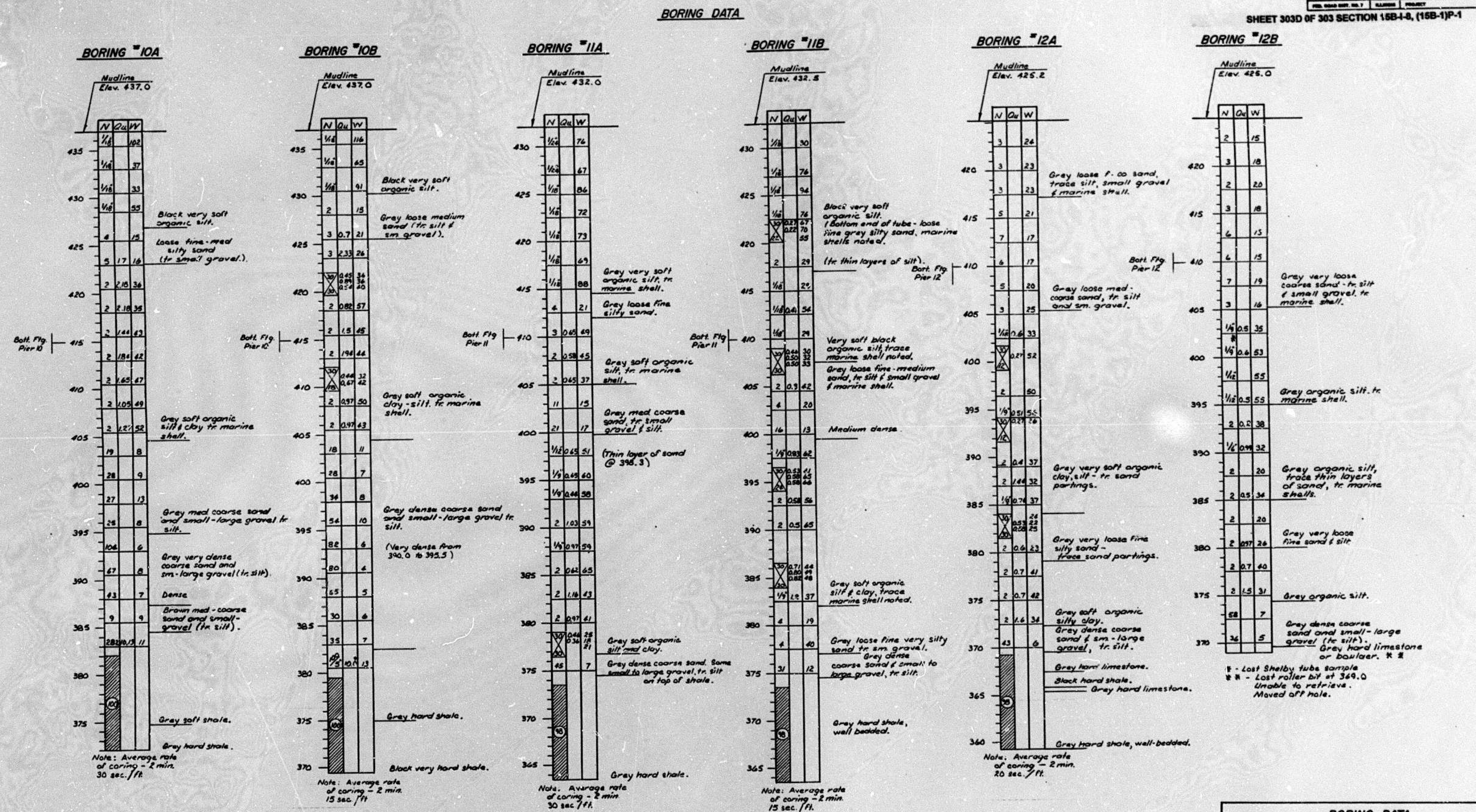
ADDED 5-28-99

[redacted]

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 31	[redacted]	Peoria & Tazewell	[redacted]	[redacted]

SHEET 303D OF 303 SECTION 15B-I-8, (15B-1)P-1

BORING DATA



BORING #10A
Mudline Elev. 437.0
N Qu W
Bott. Ftg. Pier 10
Black very soft organic silt.
Loose fine-med silty sand (tr small gravel).
Grey soft organic silt & clay tr. marine shell.
Grey med coarse sand and small-large gravel tr. silt.
Grey very dense coarse sand and sm.-large gravel (tr. silt).
Dense
Brown med-coarse sand and small-gravel (tr. silt).
Grey soft shale.
Grey hard shale.
Note: Average rate of coring - 2 min. 30 sec./ft.
BORING #10B
Mudline Elev. 437.0
Bott. Ftg. Pier 10
Black very soft organic silt.
Grey loose medium sand (tr. silt & sm gravel).
Grey soft organic clay-silt. tr. marine shell.
Grey dense coarse sand and small-large gravel tr. silt.
(Very dense from 390.0 to 395.5)
Grey hard shale.
Black very hard shale.
Note: Average rate of coring - 2 min. 15 sec./ft.
BORING #11A
Mudline Elev. 432.0
Bott. Ftg. Pier 11
Grey very soft organic silt. tr. marine shell.
Grey loose fine silty sand.
Grey soft organic silt, tr. marine shell.
Grey med coarse sand, tr. small gravel & silt.
(Thin layer of sand @ 398.3)
Grey soft organic silt and clay.
Grey dense coarse sand. Some small to large gravel, tr. silt on top of shale.
Grey hard shale.
Note: Average rate of coring - 2 min 30 sec./ft.
BORING #11B
Mudline Elev. 432.5
Bott. Ftg. Pier 11
Black very soft organic silt. (Bottom end of tube - loose fine grey silty sand, marine shells noted.
(tr. thin layers of silt).
Very soft black organic silt, trace marine shell noted.
Grey loose fine-medium sand, tr. silt & small gravel & marine shell.
Medium dense.
Grey soft organic silt & clay, trace marine shell noted.
Grey loose fine very silty sand tr. sm. gravel.
Grey dense coarse sand & small to large gravel, tr. silt.
Grey hard shale, well bedded.
Note: Average rate of coring - 2 min. 15 sec./ft.
BORING #12A
Mudline Elev. 425.2
Bott. Ftg. Pier 12
Grey loose f.-co sand, trace silt, small gravel & marine shell.
Grey loose med-coarse sand, tr. silt and sm. gravel.
Grey very soft organic clay, silt - tr. sand partings.
Grey very loose fine silty sand - trace sand partings.
Grey soft organic silty clay.
Grey dense coarse sand & sm.-large gravel, tr. silt.
Grey hard limestone.
Black hard shale.
Grey hard limestone.
Grey hard shale, well-bedded.
Note: Average rate of coring - 2 min. 20 sec./ft.
BORING #12B
Mudline Elev. 426.0
Bott. Ftg. Pier 12
Grey very loose coarse sand - tr. silt & small gravel, tr. marine shell.
Grey organic silt. tr. marine shell.
Grey organic silt, trace thin layers of sand, tr. marine shells.
Grey very loose fine sand & silt.
Grey organic silt.
Grey dense coarse sand and small-large gravel (tr. silt).
Grey hard limestone or boulder. **
- Lost Shelby tube sample
** - Lost roller bit at 369.0 Unable to retrieve. Moved off hole.

LEGEND:

Indicates Shelby Tube

Indicates Rock Core

A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

FOR INFORMATION ONLY

BORING DATA
Mc CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 — SEC. 15 B-2
PEORIA & TAZEWELL COUNTIES

DESIGNED
CHECKED
DRAWN R.I.E.
CHECKED G.F.J.

HANSON ENGINEERS INCORPORATED
SPRINGFIELD, ILLINOIS — PEORIA, ILLINOIS

FILE NO. 74001
DATE 12-31-74

ADDED 5-1349

D C B A 0 A B C D

[redacted]

SHEET NO.	ROAD DIST. NO. 7	COUNTY: Peoria & Tazewell	TOTAL SHEETS	SHEET NO.
F.A. 31	ILLINOIS	PROJECT		

SHEET 303E OF 303 SECTION 15B-1-B, (15B-1)P-1

BORING DATA

BORING #13A

Mudline Elev. 434.0

Batt Plg. Pier 13

Grey very soft organic silt.

Grey wet loose fine sand, tr silt.

Grey soft sand, silt, tr small gravel.

Very dense med. to large gravel / sa. sand, tr cobbles

Grey hard limestone

Grey hard well-bedded shale.

* - Indicates last Shelby tube sample
Note: Average rate of coring - 3 min. 25 sec/ft.

BORING #13B

Mudline Elev. 433.0

Batt Plg. Pier 13

Very soft organic silt.

Brown very loose fine sand with some organic silt.

Grey very soft organic silt / tr. sand, sea shells.

Dense med. to large gravel with sand, tr silt.

Very dense med. to large gravel/sand, tr cobbles.

Dense med. to large gravel with sand, tr cobbles.

Grey med silty clay / tr. sand & small gravel.

Grey very soft silty clay, tr sand and small gravel.

Very dense med. to large gravel / sa. sand, tr cobbles.

Shale - drilled to 367.0

Shale

Note: Average rate of coring - 2 min. 30 sec/ft.

BORING #14

Mudline Elev. 436.7

Batt Plg. Pier 16

Black very soft organic silt.

Very soft sandy silt with organic material.

Grey loose fine sand with silt & organic material.

Grey very soft silty clay trf organic matter. Boulder.

Very dense med. - large gravel with sand, trace cobbles.

Grey soft silty clay tr sm. gravel.

Very dense med. to large gravel / sand, tr cobbles. #,##

Very dense shale.

* - Indicates last Shelby tube sample.
- Very hard 3" cobble at 378.2. Took ½ hr to drill through.

BORING #15

Mudline Elev. 436.5

Batt Plg. Pier 15

Black very soft organic silt.

Grey soft organic clay tr. sand.

Grey soft silty clay/se. small gravel & sea shells & organic matter.

Grey soft organic silt with tr. sand & clay.

Grey loose fine silty sand tr org. matter. (Note A)

Grey soft silt with as sand & clay, Grey soft silty clay tr sand & org. matter. Boulder.

(Small sand seam.)

Grey soft silty clay trace small gravel & sand.

Very dense small to large gravel with some sand trace cobbles.

Dense shale.

Note A: Lost return water while drilling from 412.0 to 409.5. Average rate of coring - 2 min. 40 sec/ft.

BORING #16

Mudline Elev. 437.0

Batt Plg. Pier 16

Black very soft organic silt.

Dark grey soft organic clay.

Gray loose inorganic silt - with thin layers of sand, tr of marine shell.

Gray loose medium - coarse sand, tr of silt & small gravel.

Gray loose, medium sand tr. silt & small gravel.

Gray organic clay

Grey dense, fine sand tr silt & thin layers of small gravel.

Grey dense coarse sand with small - large gravel, tr silt.

Brown very dense sand and large gravel tr cobbles & silt.

Med - med. to coarse gravel / sand, tr large gravel.

Very dense large gravel with cobbles & sand.

Med. - lge. gvl. / sa. sand & cobbles.

Very dense shale

Notes: Losing a tub of bentonite (50 gal.) every 5' below 398.5.
@ - Roller - bitted to 371.5 in shale.
Average rate of coring - 2 min. 30 sec/ft.

BORING #17

Mudline Elev. 436.5

Batt Plg. Pier 17

Grey very loose organic silt.

Dark grey med. very silty clay - organic material & tr sm. gravel noted.

Grey loose med. silty sand, tr sm. gravel, silt & marine shell.

Grey organic silt.

Grey medium - medium sand, tr silt & small gravel.

Very loose, fine silty sand.

Grey organic silt, tr marine shell.

Brown very dense coarse sand with small - large gravel, tr silt.

Grey hard, well-bedded shale.

Grey hard silt stone.

Grey hard, well-bedded shale.

Grey hard silt stone.

Grey hard, well-bedded shale.

* - Indicates last sample
Average rate of coring - 2 min. 15 sec/ft.

LEGEND:

Indicates Shelby Tube (A / B)

Indicates Rock Core

A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

FOR INFORMATION ONLY

BORING DATA

Mc CLUGAGE BRIDGE OVER THE ILLINOIS RIVER

F.A. ROUTE 31 SEC. 15 B-2

PEORIA & TAZEWELL COUNTIES

DESIGNED		HANSON ENGINEERS INCORPORATED	FILE NO. 74001
CHECKED			
DRAWN	RTF		DATE 12-31-74
CHECKED	D.F.J.	SPRINGFIELD, ILLINOIS PEORIA, ILLINOIS	

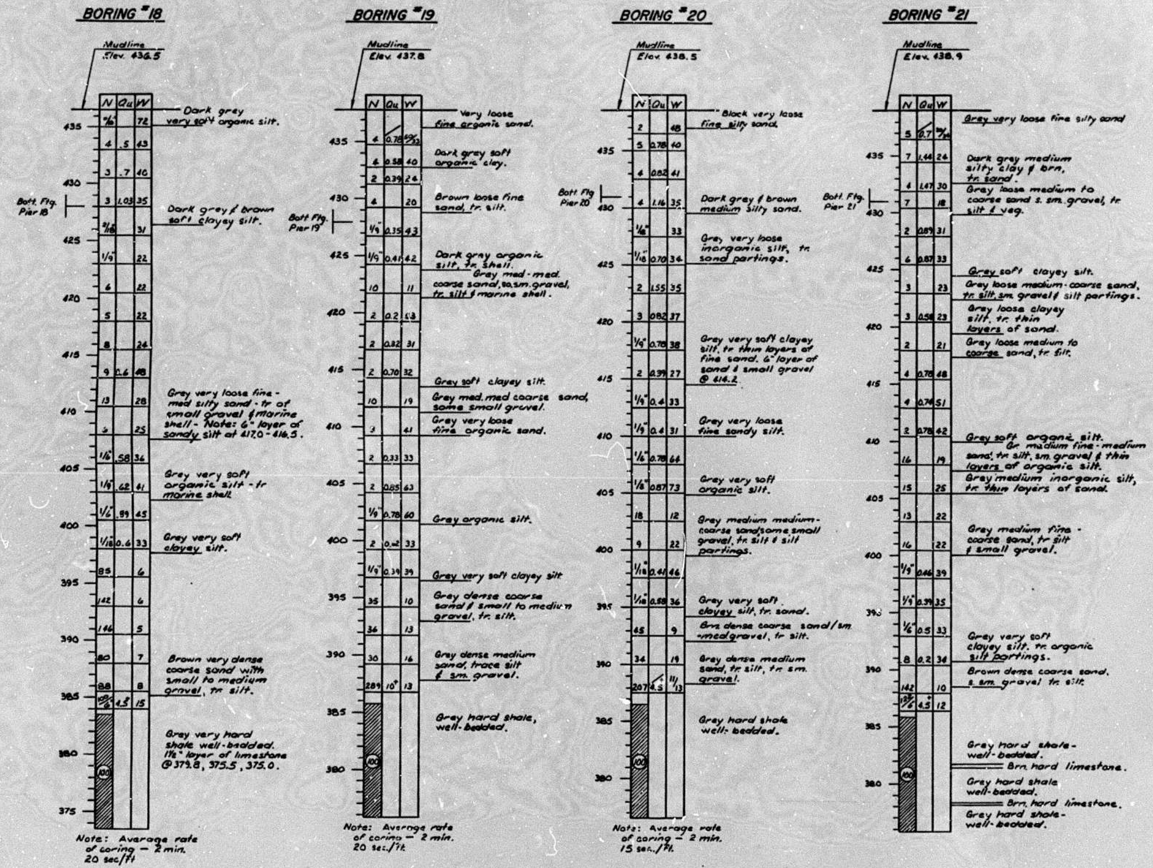
Added 5-28-99

[redacted]

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 31	[redacted]	Peoria & Tazewell	[redacted]	[redacted]

SHEET 303F OF 303 SECTION 15B-I-8, (15B-1)P-1

BORING DATA



BORING #18
Mudline Elev. 436.5
N Qu W
Dark grey very soft organic silt.
Bott. Ftg. Pier 18
Dark grey & brown soft clayey silt.
Grey very loose fine-med silty sand - tr. of small gravel & marine shell - Note: 6" layer of sandy silt at 417.0-416.5.
Grey very soft organic silt - tr marine shell.
Grey very soft clayey silt.
Brown very dense coarse sand with small to medium gravel, tr. silt.
Grey very hard shale well-bedded. 1½" layer of limestone @ 379.8, 375.5, 375.0.
Note: Average rate of coring - 2 min. 20 sec/ft.
BORING #19
Mudline Elev. 437.8
N Qu W
Very loose fine organic sand.
Dark grey soft organic clay.
Brown loose fine sand, tr. silt.
Bott. Ftg. Pier 19
Dark grey organic silt, tr. shell.
Grey med.-med. coarse sand, tr. sm. gravel, tr. silt & marine shell.
Grey soft clayey silt.
Grey med. med coarse sand, some small gravel.
Grey very loose fine organic sand.
Grey organic silt.
Grey very soft clayey silt
Grey dense coarse sand & small to medium gravel, tr. silt.
Grey dense medium sand, trace silt & sm. gravel.
Grey hard shale, well-bedded.
Note: Average rate of coring - 2 min. 20 sec./ft.
BORING #20
Mudline Elev. 438.5
N Qu W
Black very loose fine silty sand.
Bott. Ftg. Pier 20
Dark grey & brown medium silty sand.
Grey very loose inorganic silt, tr. sand partings.
Grey very soft clayey silt, tr. thin layers of fine sand. 6" layer of sand & small gravel @ 414.2.
Grey very loose fine sandy silt.
Grey very soft organic silt.
Grey medium medium-coarse sand/some small gravel, tr. silt & silt partings.
Grey very soft clayey silt, tr. sand.
Grey dense coarse sand/sm-med gravel, tr. silt.
Grey dense medium sand, tr. silt, tr. sm. gravel.
Grey hard shale well-bedded.
Note: Average rate of coring - 2 min. 15 sec./ft.
BORING #21
Mudline Elev. 438.9
N Qu W
Grey very loose fine silty sand
Dark grey medium silty clay & brn. tr. sand.
Grey loose medium to coarse sand & sm. gravel, tr. silt & veg.
Bott. Ftg. Pier 21
Grey soft clayey silt.
Grey loose medium-coarse sand, tr. silt, sm. gravel & silt partings.
Grey loose clayey silt, tr. thin layers of sand.
Grey loose medium to coarse sand, tr. silt.
Grey soft organic silt.
Gr. medium fine-medium sand, tr. silt, sm. gravel & thin layers of organic silt.
Grey medium inorganic silt, tr. thin layers of sand.
Grey medium fine-coarse sand, tr. silt & small gravel.
Grey very soft clayey silt, tr. organic silt partings.
Brown dense coarse sand, & sm. gravel tr. silt.
Grey hard shale-well-bedded.
Brn. hard limestone.
Grey hard shale well-bedded.
Brn. hard limestone.
Grey hard shale-well-bedded.

LEGEND:

Indicates Shelby Tube

Indicates Rock Core

A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

FOR INFORMATION ONLY

BORING DATA

M^c CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-2
PEORIA & TAZEWELL COUNTIES

DESIGNED
CHECKED
DRAWN R.J.F.
CHECKED G.F.J.

HANSON ENGINEERS INCORPORATED
SPRINGFIELD, ILLINOIS PEORIA, ILLINOIS

FILE NO. 74001
DATE 12-31-74

ADDED 5-28-99