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- 780001-02 TYPICAL PAVEMENT MARKINGS
- BLR 21-8 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- BLR 22-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

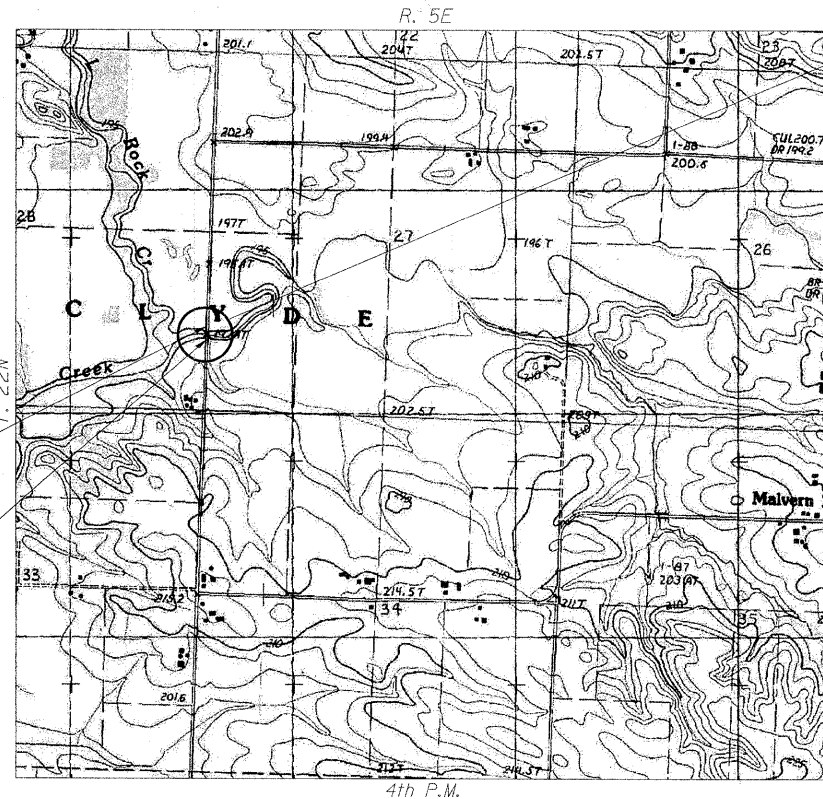
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

# PLANS FOR PROPOSED BRIDGE REPLACEMENT PROJECT F.A.S. ROUTE 76 (LYNDON ROAD) COUNTY HIGHWAY 7 OVER ROCK CREEK

**SECTION 06-00183-00-BR  
WHITESIDE COUNTY  
PROJECT BRS-0076(104)  
JOB NUMBER C-92-102-09**



**PROPOSED IMPROVEMENTS**  
REMOVAL AND REPLACEMENT OF EXISTING TWO-SPAN BRIDGE OVER ROCK CREEK. NEW STRUCTURE CONSISTS OF A THREE-SPAN PPC DECK BEAM SUPERSTRUCTURE ON PILE BENT PIERS AND SPILL-THRU ABUTMENTS.



IMPROVEMENT BEGINS  
STATION 220+47

IMPROVEMENT ENDS  
STATION 226+27

**LOCATION PLAN**



SCALE OF LAYOUT  
NET LENGTH = 580 FEET (0.11 MI)

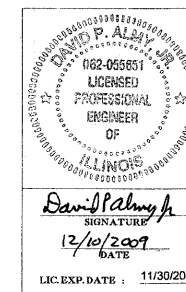
**TRAFFIC DATA**  
HIGHWAY CLASSIFICATION: COLLECTOR  
2008 ADT: 650 6% TRUCKS  
DESIGN SPEED: 50 MPH  
POSTED SPEED: 55 MPH  
CLOSED ROAD ADT = 5

**811** **TOLL FREE**  
JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS  
(J.U.L.I.E.) TELEPHONE NUMBER  
1-800-892-0123 or 811  
Know what's below.  
Call before you dig.

**UTILITY NOTE**

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

**CONTRACT NO. - 85506**



APPROVED Dec 14 20 09  
*Steve J. Harris*  
COUNTY ENGINEER

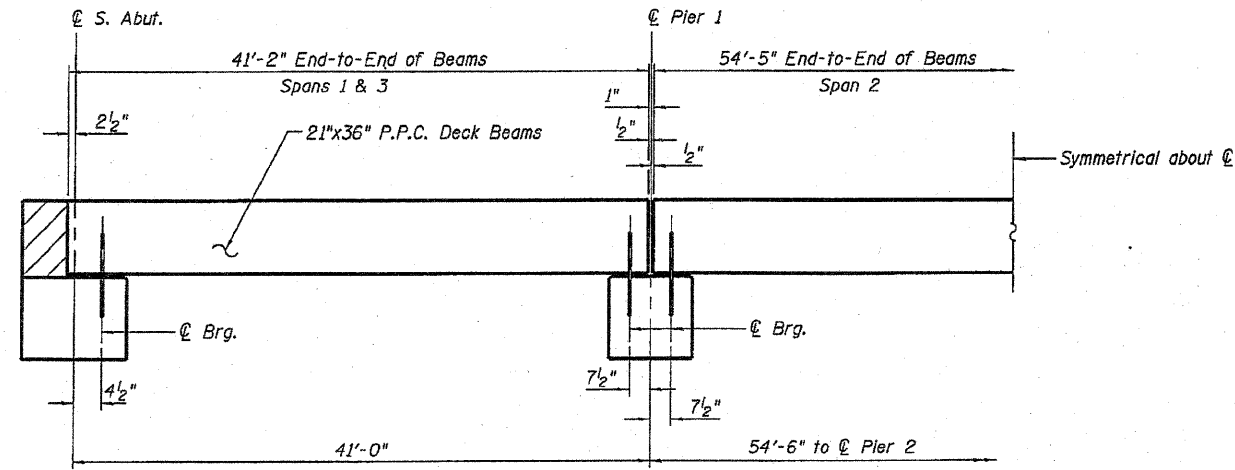
PASSED DEC 28 20 09  
*Jason T. Nelson, Inc.*  
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW DEC 28 20 09  
*Greg F. Ryan, Inc.*  
DEPUTY DIRECTOR OF HIGHWAYS/REGION 2 ENGINEER

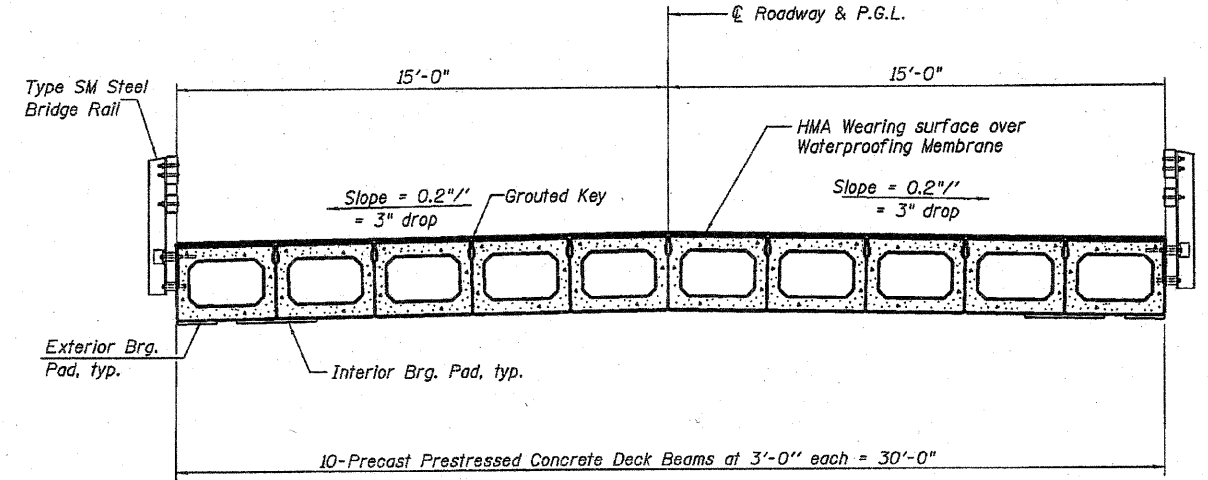
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DESIGN NO. 0810156	DATE 12/11/09	Copyright Hanson Professional Services Inc. 2009	Corporate License Number 184-001-084	
SHEET NO. 76	SHEETS 21	F.A.S. ROUTE 76	SECTION 06-00183-00-BR	COUNTY WHITESIDE
		TOTAL SHEETS 21		SHEET NO. 1
		CONTRACT NO. 85506		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

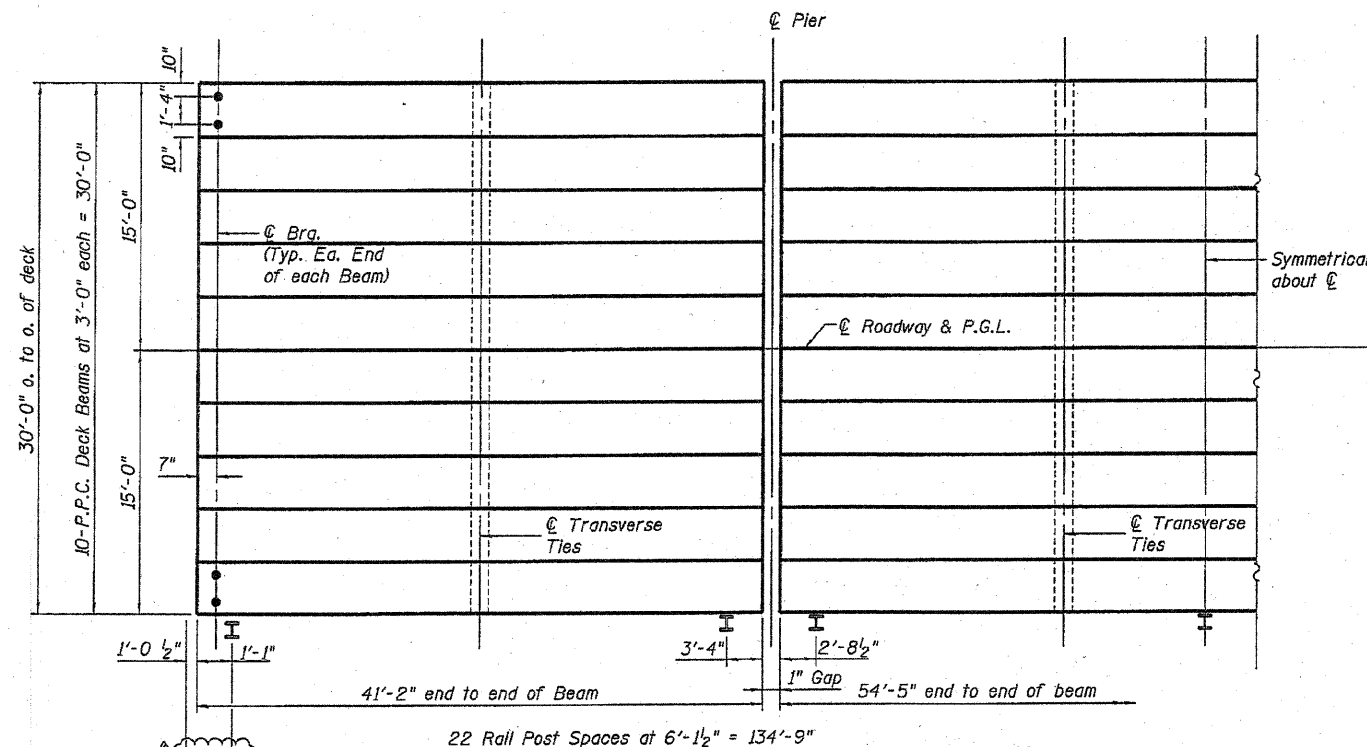
12-08-2009  
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ELEVATION



CROSS SECTION



PLAN

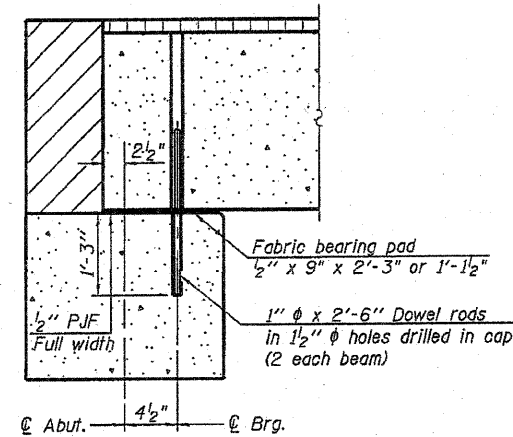
NOTES

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hours prior to grouting the shear keys. Longitudinal keys shall be grouted.

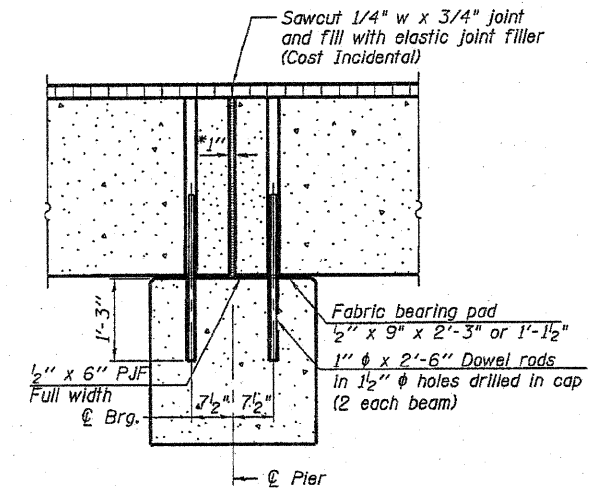
The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing.

See sheet 6 of 11 for bearing pad details.

Hatched area to be poured after deck beams are in place, and will be paid for as Concrete Structures.



SECTION THRU ABUTMENT



SECTION THRU FIXED PIER

\* 1" jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

PCC DECK BEAM SUPERSTRUCTURE

LYNDON ROAD BRIDGE  
OVER ROCK CREEK  
F.A.S. ROUTE 76  
SECTION 06-00183-00-BR  
WHITESIDE COUNTY, ILLINOIS  
STRUCTURE NUMBER 098-3077  
STATION 223+86.00

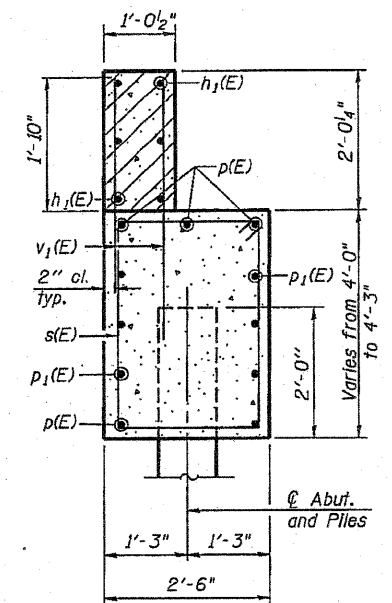
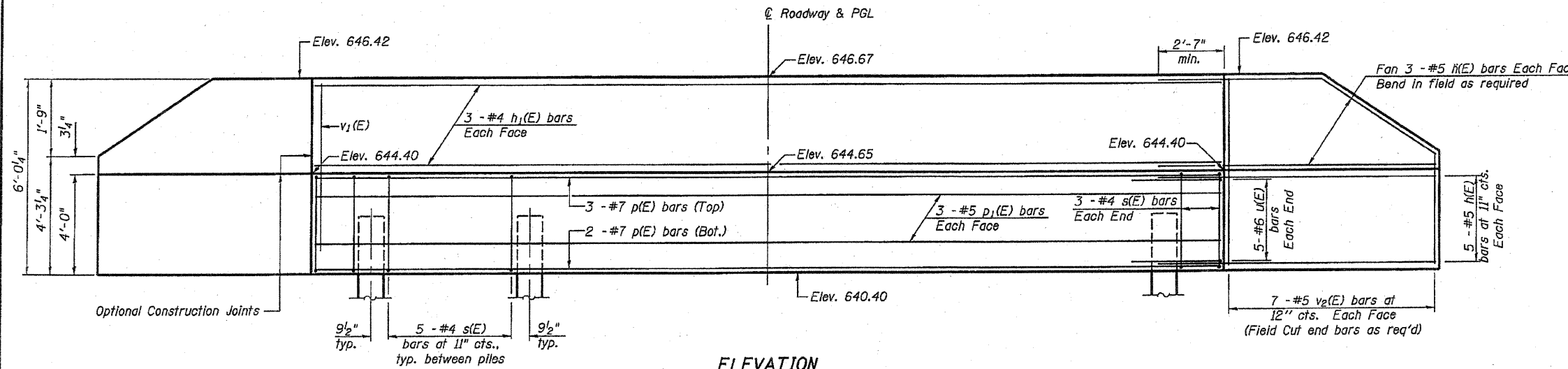
Corporate License Number 04-001-084



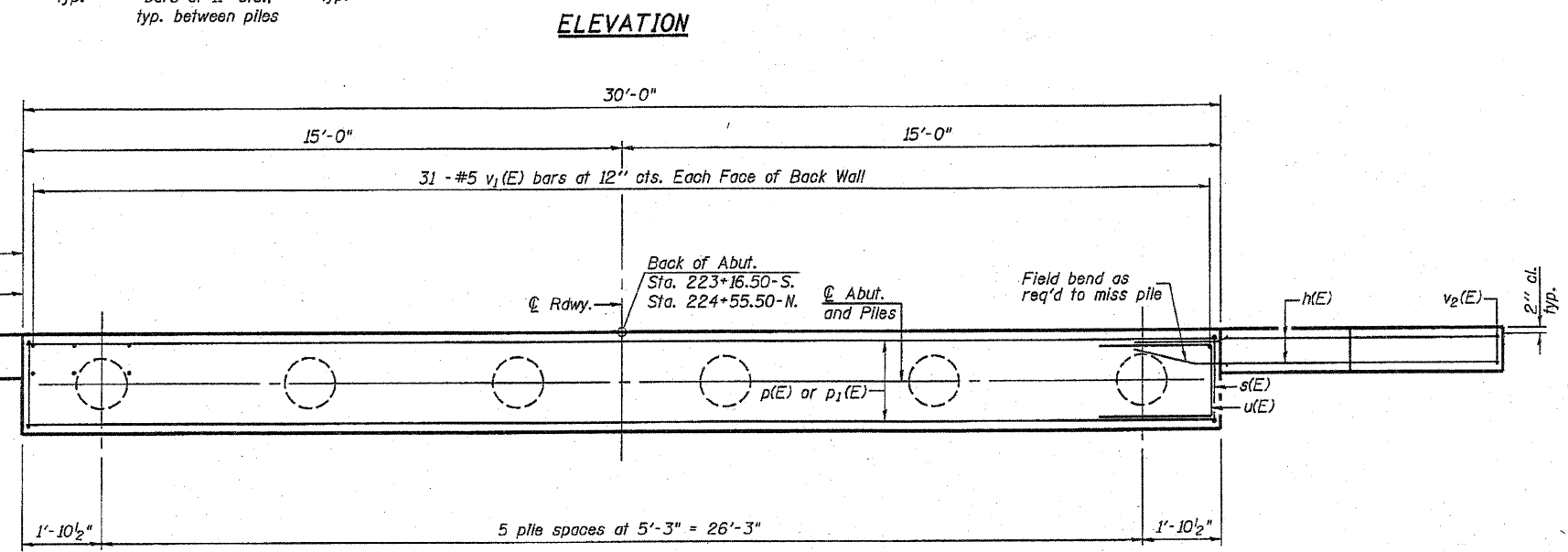
SHEET NO. 3	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	76	06-00183-00-BR	Whiteside	21	10
11 SHEETS	CONTRACT NO. 85506			FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT	

02/16/10  
 09/11/09  
 12/11/09  
 12/11/09  
 12/11/09  
 12/11/09

Revised Rail Dimension Lines - 02/16/10



SEC. THRU ABUT.



ELEVATION

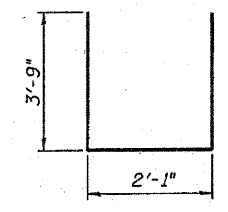
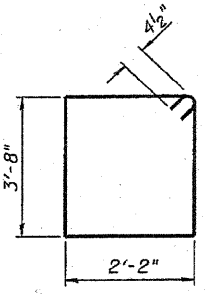
PLAN

BILL OF MATERIAL FOR TWO ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	64	#5	9'-0"	
h1(E)	12	#4	29'-8"	
p(E)	10	#7	29'-8"	
p1(E)	12	#5	29'-8"	
s(E)	62	#4	12'-5"	
u(E)	20	#6	9'-7"	
v1(E)	124	#5	3'-0"	
v2(E)	56	#5	5'-8"	
Structure Excavation	Cu. Yd.	93		
Concrete Structures	Cu. Yd.	31.8		
Reinforcement Bars, Epoxy Coated	Pound	3340		
Furnishing Metal Shells	Foot	420		
Driving Piles	Foot	420		
Test Pile, Metal Shell	Each	2		

PILE DATA

Type: Metal Shell - 14" dia. x 0.25" wall  
 Nominal Required Bearing: 276 kips  
 Factored Resistance Available: 138 kips  
 Est. Length: 42 ft.  
 No. Production Piles: 10 (5 at each abut.)  
 No. Test Piles: 2 (1 at each abut.)



BAR s2(E)

BAR u(E)

PILE BENT ABUTMENT DETAILS

LYNDON ROAD BRIDGE  
 OVER ROCK CREEK  
 F.A.S. ROUTE 76  
 SECTION 06-00183-00-BR  
 WHITESIDE COUNTY, ILLINOIS  
 STRUCTURE NUMBER 098-3077  
 STATION 223+86.00

Revised No. of Production Piles - 02/16/10

LAYOUT	08/11/09
DRAWN	12/11/09
REVIEWED	12/11/09

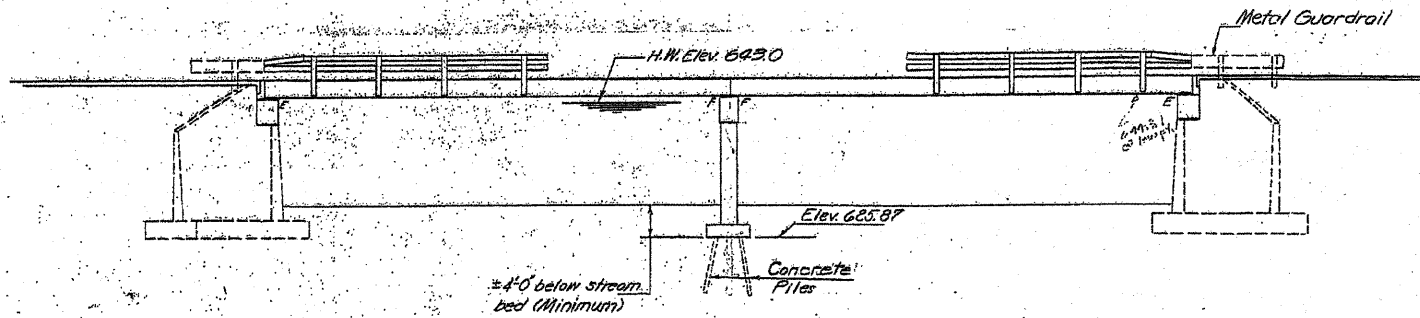
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 08LO156 12/11/09

SHEET NO. 8	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	76	06-00183-00-BR	Whiteside	21	15
				CONTRACT NO. 85506	
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT					

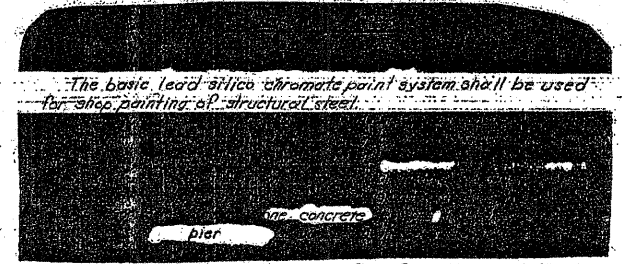
STATE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH. 7	MFD	WHITESIDE	9	3
7 SHEETS				

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

B.M. NW Abut. Wing Elev. 696.95  
 Existing Structure Built Dec. 1917  
 Sta. 224+00 in 19 Superstr. is Steel Truss  
 Substr. is R.C. Closed Abuts. Contr. shall remove existing superstr. at time of construction.  
 No Salvage.



STATION 224+00.82  
 ROCK CREEK  
 REBUILT 197 BY  
 WHITESIDE COUNTY  
 SEC. (KB-MFT) BR.  
 LOADING H520  
 NAME PLATE  
 See Std. 2113

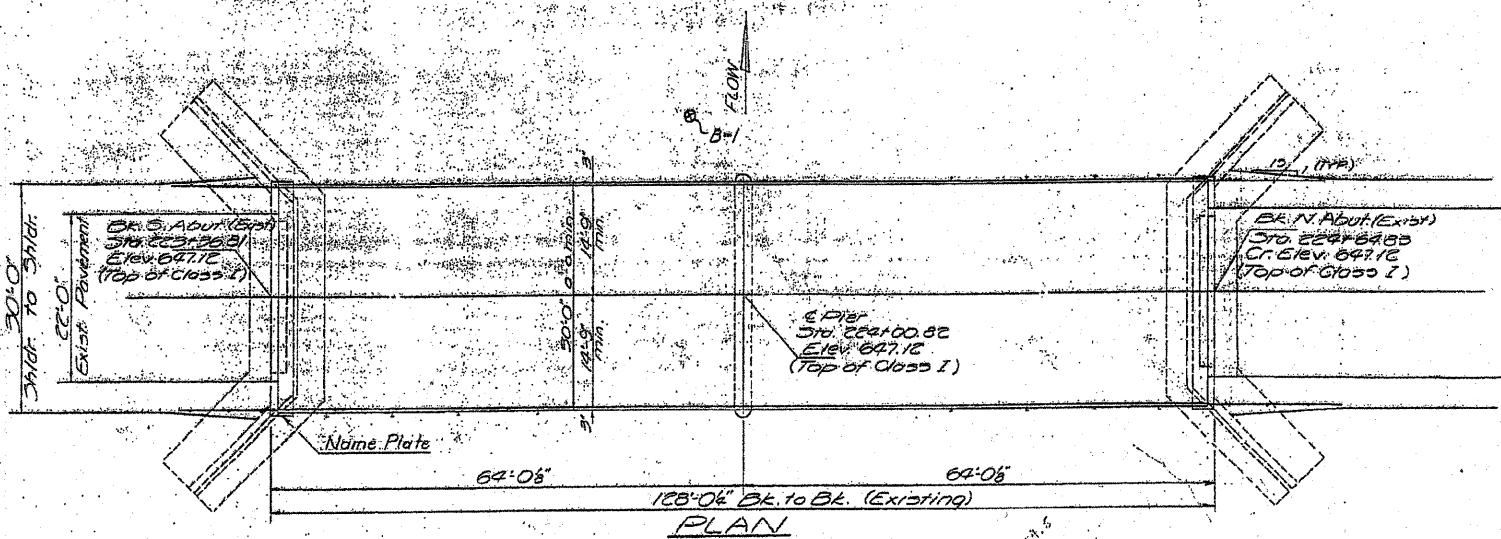


The basic lead silico chromate paint system shall be used for shop painting of structural steel.

Expansion Bolts shall consist of self-drilling expansion anchors and 3/4" x 1/2" hooked bolts.

The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.

An alternate strand pattern using Extra High Strength Prestressing strand (270 KSI) is permitted.



TOTAL BILL OF MATERIALS

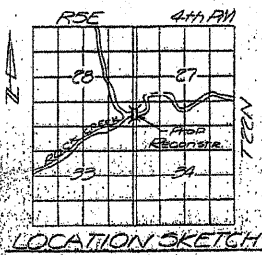
Item	Unit	Super	Sub	Total
Precast Prestressed Conc. Sl. Bms (7)	Sq. Ft.	3755		3755
Class I Concrete	Cu. Yds.	14	66.3	80.3
Reinforcement Bars	Lbs.	155	5220	5375
Steel Railings - Type N	Lin. Ft.	250		250
Paint Rem. & P.C. Seal (Type C-10)	Sq. Yds.	10		10
Concrete Removal	Cu. Yds.	0	0	0
Name Plates	Each		1	1
Preformed Joint Sealer 2 1/2"	Lin. Ft.	60		60
Removal of Existing Superstructure	Each		1	1
Structural Steel	Lbs.	4210		4210
Structure Excavation	Cu. Yds.		55	55
Concrete Piles	Lin. Ft.		611	611
Test Piles Concrete	Each		1	1
Bit. Conc. Surf. Cse. Cl. I	Tons	68		68
Waterproofing Membrane Sys.	Sq. Yds.	418		418
Exp. Bolts (3/4" x 1/2")	Each		68	68
P.C. Mortar Fairing Course	Lin. Ft.	1125		1125

DESIGN STRESSES  
 FIELD UNITS  
 Fc = 1400 psi (Sub)  
 Fc = 20000 psi (Reinf.)  
 n = 10

WATERWAY INFORMATION  
 Drainage Area: 66,000 Acres  
 Character:  
 Present Opening: 1573 Sq. Ft.  
 Reqd. Opening: 1573 Sq. Ft.  
 Proposed Opening: 1573 Sq. Ft.  
 Q<sub>100</sub> = 5400 cfs.

PRECAST PRESTRESSED UNITS  
 Fc = 3000 psi  
 Fc = 4000 psi  
 Fc = 248,000 psi (1/8" strands)  
 Fc = 173,600 psi (1/4" strands)

DESIGNED: Sel. Jafari  
 CHECKED: M. Abouel  
 DRAWN: F. G. P. H.  
 CHECKED: [Signature]  
 EXAMINED: [Signature]  
 PASSED: [Signature]  
 APPROVED: [Signature]



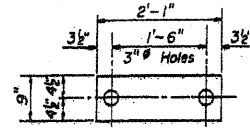
GENERAL PLAN and ELEVATION  
 CH. 7 over ROCK CREEK  
 CH. R.I.E. 7 SEC. (KB-MFT) BR.  
 WHITESIDE COUNTY  
 STATION 224+00.82

LOADING H520-44

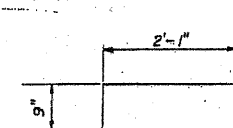
Allow 25 lbs/Sq. Ft. for future N.S.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

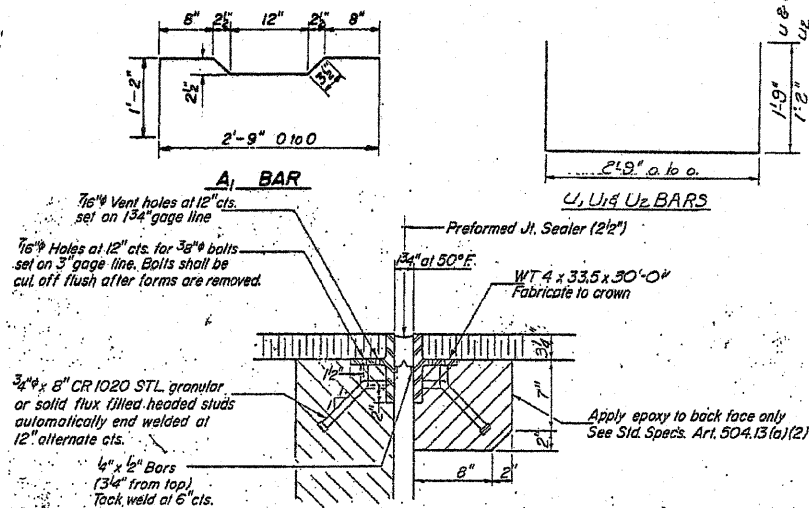
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
CH. 7	MFTBR	WHITESIDE	9	4	7 SHEETS



FABRIC BEARING PAD

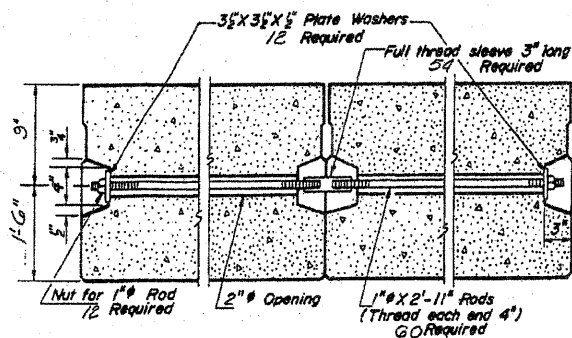


GRAPHITED ASBESTOS BEARING PAD

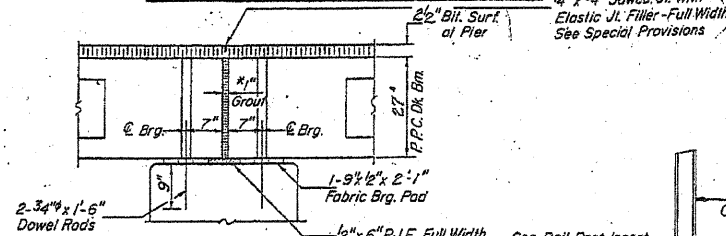


DETAIL "A"

NOTE: Dimensions are at right angles.  
 Hatched areas to be poured after beams have been erected and joints grouted.  
 Ends of beams shall be aligned at the expansion joints. Any linear variation in the beam lengths shall be placed at the fixed joint. See End of Beam Detail for reinforcement.

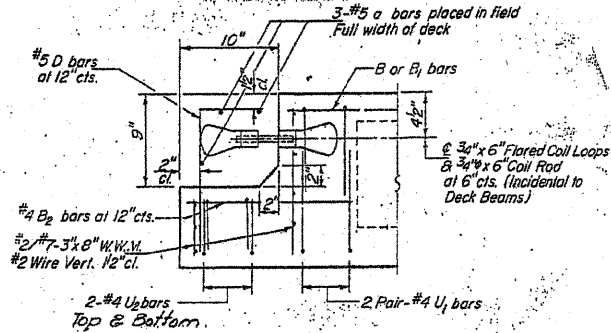


TYPICAL TRANSVERSE TIE ASSEMBLY



SECTION THRU PIER

\*1" Joints shall be packed with a very dry mix of 2:1 sand and P.C. mortar. This dimension may vary plus or minus to accommodate tolerance in beam lengths.

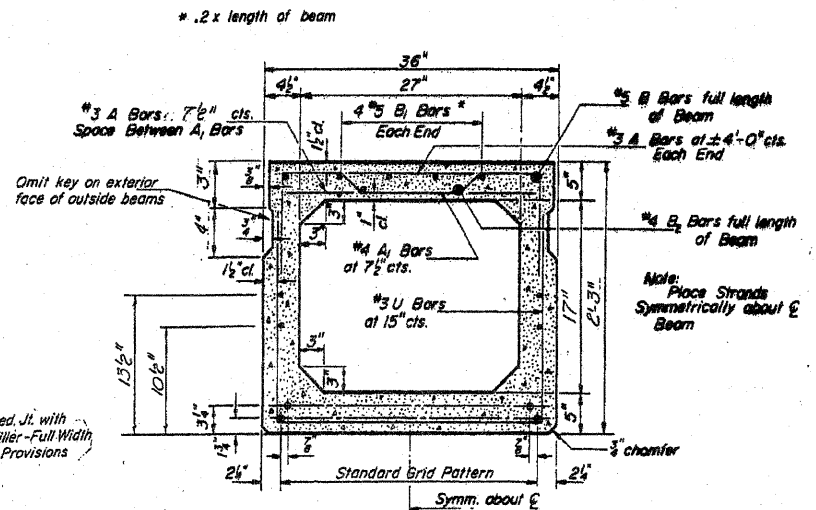


END OF BEAM (EXP. END)

(Dimensions are at right angles)

GENERAL NOTES

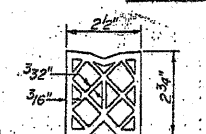
Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand. The nominal diameter shall be 7/16" and the nominal cross-sectional area shall be 0.109 sq. in. Lifting loops shall be 5/8" diameter, 6 x 19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 33,000 lbs. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on an outside beam shall be filled with grout after transverse tie assembly is in place. Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand and P.C. mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place. Dowel rods shall be AASHTO M-227 or M-51. Transverse tie rods shall be AASHTO M-227 Grade 70-80. After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with A. Cast of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for Precast Prestressed Concrete Deck Beams.



TYPICAL SECTION

25- 7/16" Strands Each Strand Stressed to 18,900 lbs.  
 15- Strands 1 1/2" up; 6- Strands 3/4" up; 2- Strands 10 1/2" up; 3- Strands 13 1/2" up  
 15'-0" overrun  
 1/2" min. cl. I & Waterproofing Membrane Sys. Slope 3/16"/ft.  
 Crown 2" x 2"  
 Grouted Key  
 10 Precast Prestressed Concrete Beams at 3'-0" each 30'-0" overrun  
 3 # A Bars: 7 1/2" cts. Space Between A1 Bars  
 4 # B Bars Each End  
 #5 B Bars full length of Beam  
 #3 A Bars at +/- 4'-0" cts. Each End  
 #4 A Bars at 7 1/2" cts.  
 #3 U Bars at 15" cts.  
 #4 B Bars full length of Beam  
 Note: Place Strands Symmetrically about E Beam  
 2 1/2" chamfer  
 2 1/2" Blt. Surf. at Pier  
 Standard Grid Pattern  
 2 1/2" Blt. Surf. at Pier  
 1/4" x 3/4" Sawed Jt. with Elastic Jt. Filler-Full Width  
 See Special Provisions  
 2" x 6" P.C.F. Full Width  
 2 #4 U1 bars Top & Bottom  
 2 Pair #4 U1 bars

HALF CROSS SECTION

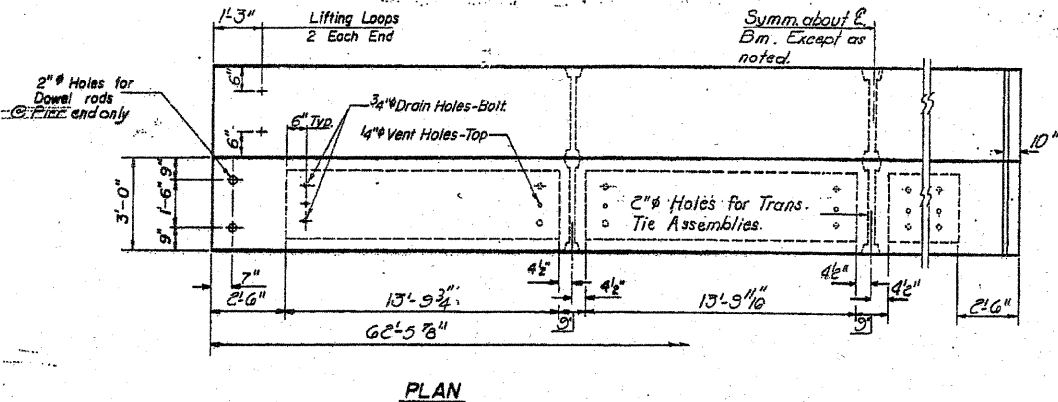


PREFORMED JOINT SEALER (2 1/2")

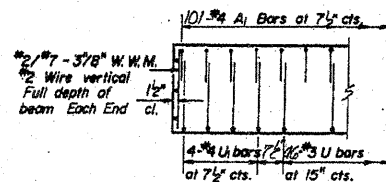
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	6	#5	29'9"	
Class X Concrete			Cu. Yds.	1.4
Precast Prestressed Concrete Deck Beams (27")			Sq. Ft.	3755
Structural Steel			Lbs.	4210
Reinforcement Bars			Lbs.	190

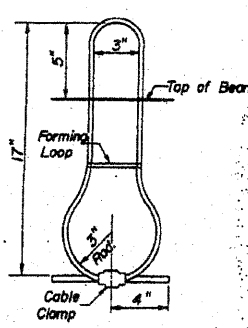
BEAM DETAILS  
 C.H. RT. 7, SEC (KB+MFT) BR  
 WHITESIDE COUNTY  
 STA. 224+00



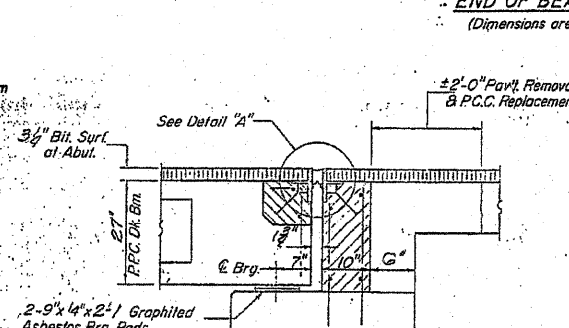
PLAN



END ELEVATION (FIXED END)



LIFTING LOOP DETAIL



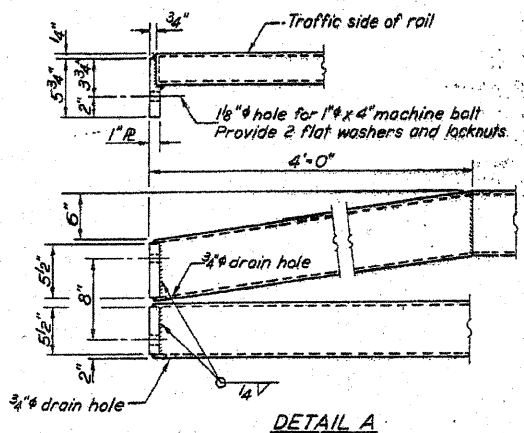
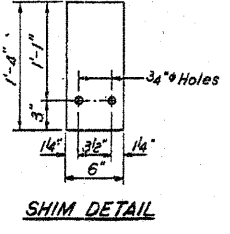
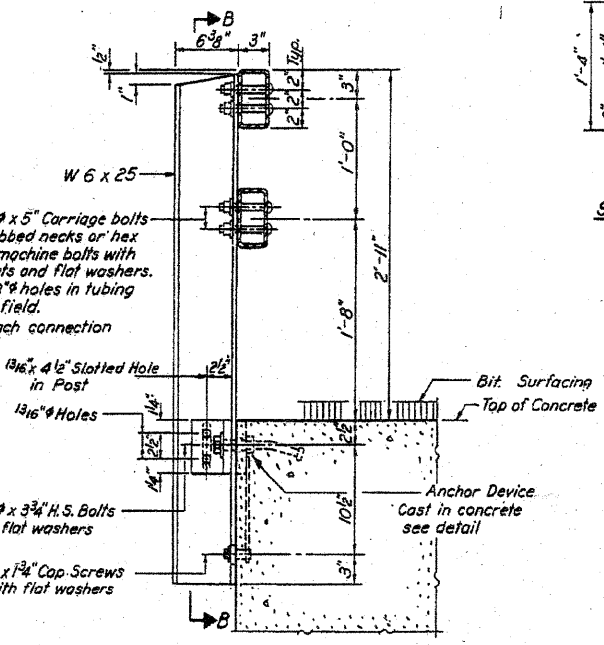
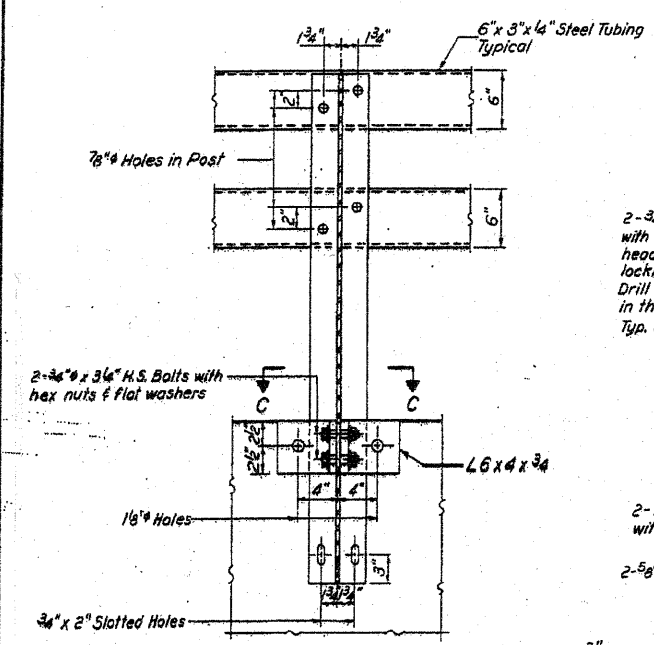
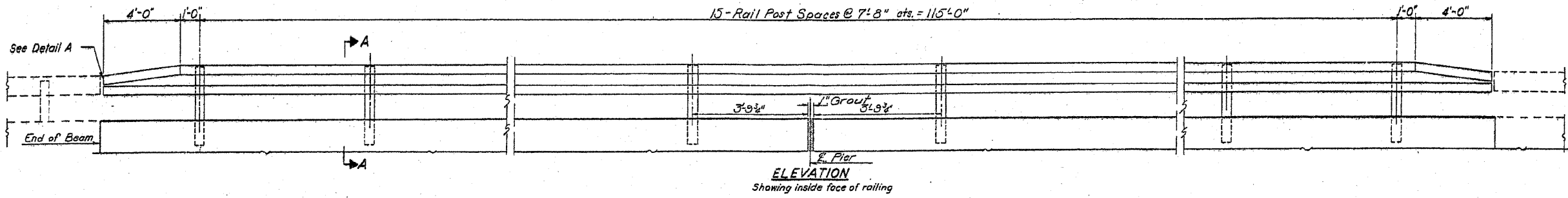
SECTION THRU ABUTS AT ROWY

DESIGNED	Sel. Fatahi	EXAMINED	Richard H. Holterman
CHECKED	F. Coffin	PASSED	Richard H. Holterman
DRAWN	F. Coffin	APPROVED	Richard H. Holterman
CHECKED			

PD-3-5-11-19-65 Rev. 5-29-69  
 SR-4 (5-15-71)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE	BY	NO.	REV.
CH 7	MPD	WHITESIDE	9 5
SHEET NO. 3			7 SHEETS



**NOTES**

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-501, "Hot Formed Welded and Seamless Carbon Steel Structural Tubing."

All other steel shapes and plates shall conform to the requirements of AASHTO M-183, except posts shall conform to AASHTO M-111 or ASTM A-385. Galvanized rail shall not be painted.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 or ASTM A-385. Galvanized rail shall not be painted.

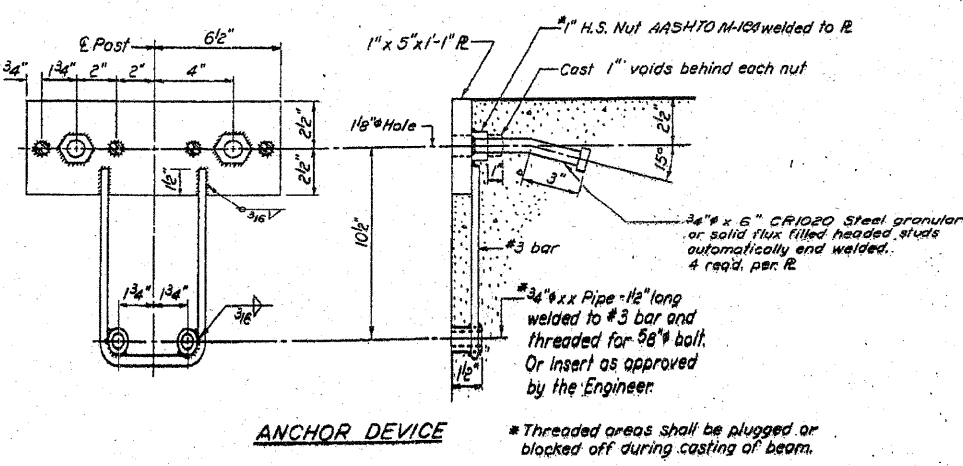
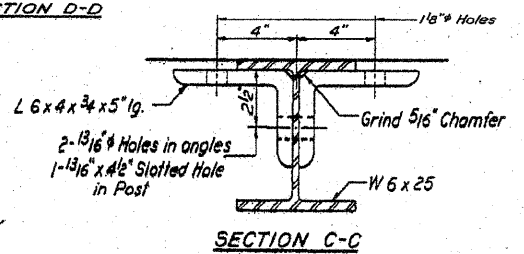
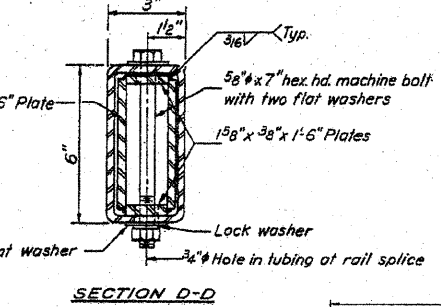
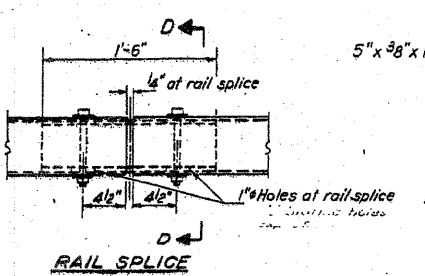
Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE N.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/2" fabric bearing pad between the post and concrete.

The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 710.11 of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete beam shall be tightened to a snug fit and given an additional 1/8 turn.

For multi-span bridges, sufficient 1/4" x 6" x 1'-4" galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to Steel Railing.



**BILL OF MATERIAL**

Item	Unit	Quantity
STEEL RAILING, TYPE N	Lin. Ft.	250

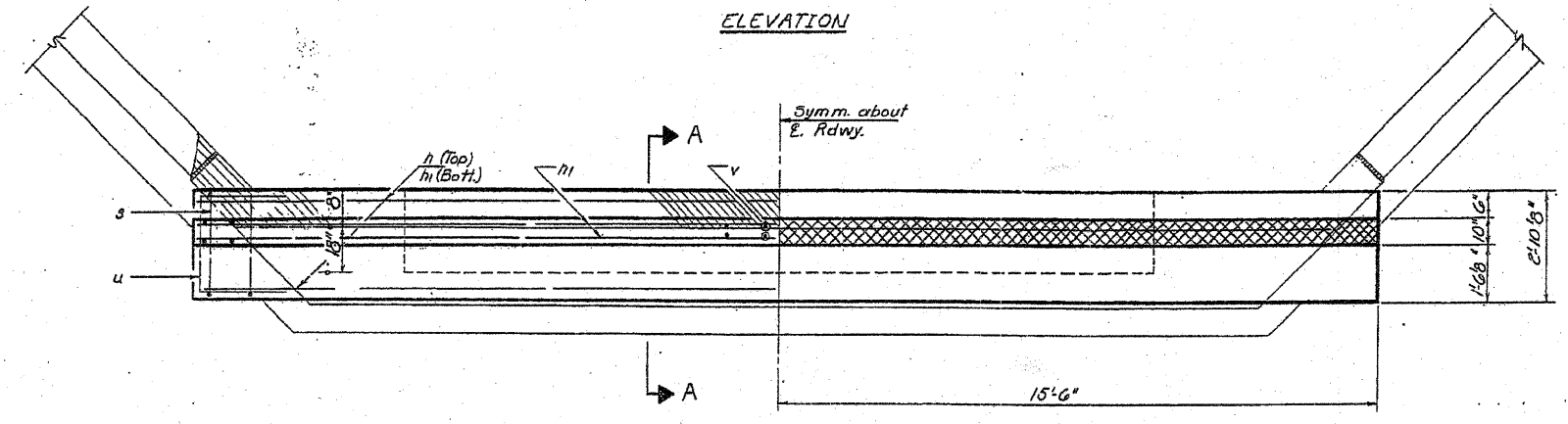
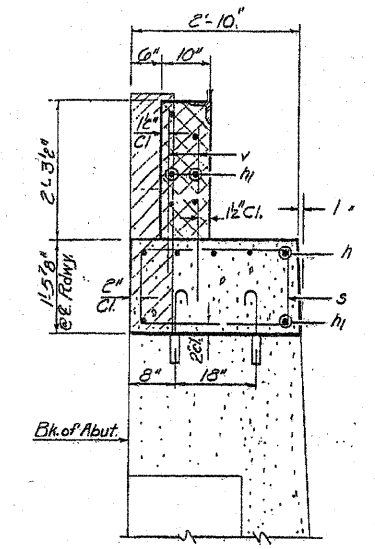
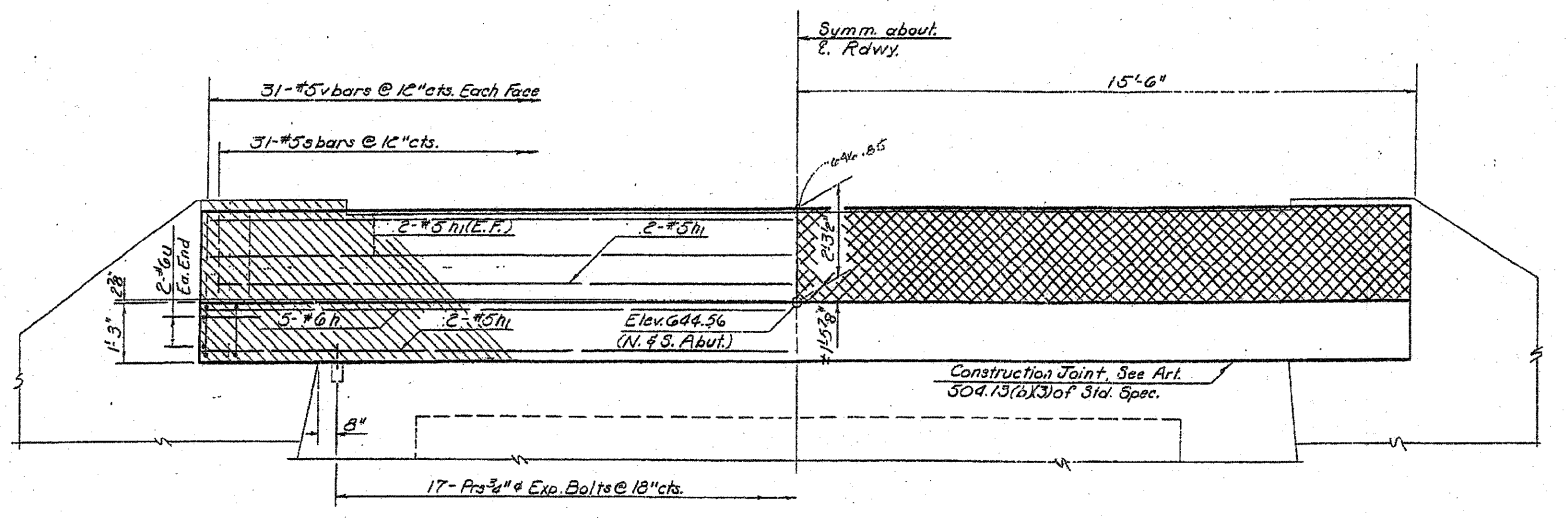
**TYPE N  
STEEL RAILING**  
CH. RT. 7, SEC. (K-B-M-F-T) BR.  
WHITESIDE COUNTY  
STA. 224+00

DESIGNED: Sel. Jahan  
CHECKED: [Signature]  
DRAWN: F. Colpin  
OCT 28 1971  
EXAMINED: [Signature]  
PASSED: [Signature]  
APPROVED: [Signature]

Added 2-17-10  
Contract 85506 Sheet 25

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
CH. 7	MFT/BR	WHITESIDE	9	6
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	



ELEVATION

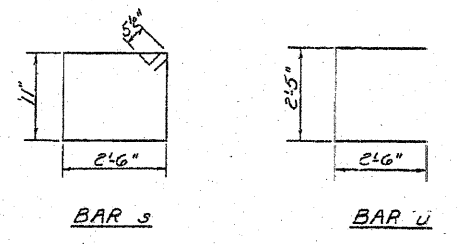
PLAN

SECTION A-A

TWO ABUTS.  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	10	#6	30'-9"	—
h1	16	#5	30'-9"	—
s	66	#5	7'-9"	□
u	8	#5	7'-5"	□
v	124	#5	3'-6"	—
Class X Concrete		Cu. Yds.	14.1	
Rein. Bars		Cu. Yds.	2000	
Concrete Removal		Cu. Yds.	5	
Expansion Bolts (48)		Each	68	

Notes:  
Cross-hatched area to be poured after beams are in place.  
Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.



DESIGNED: Sel. Pataw  
CHECKED: [Signature]  
DRAWN: F. Coffin  
OCT. 25 1971  
EXAMINED: [Signature]  
PASSED: [Signature]  
APPROVED: Richard H. Motterman

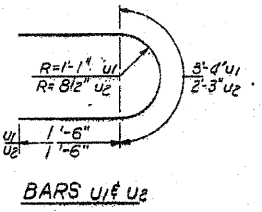
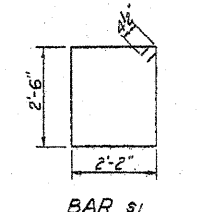
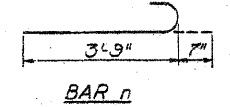
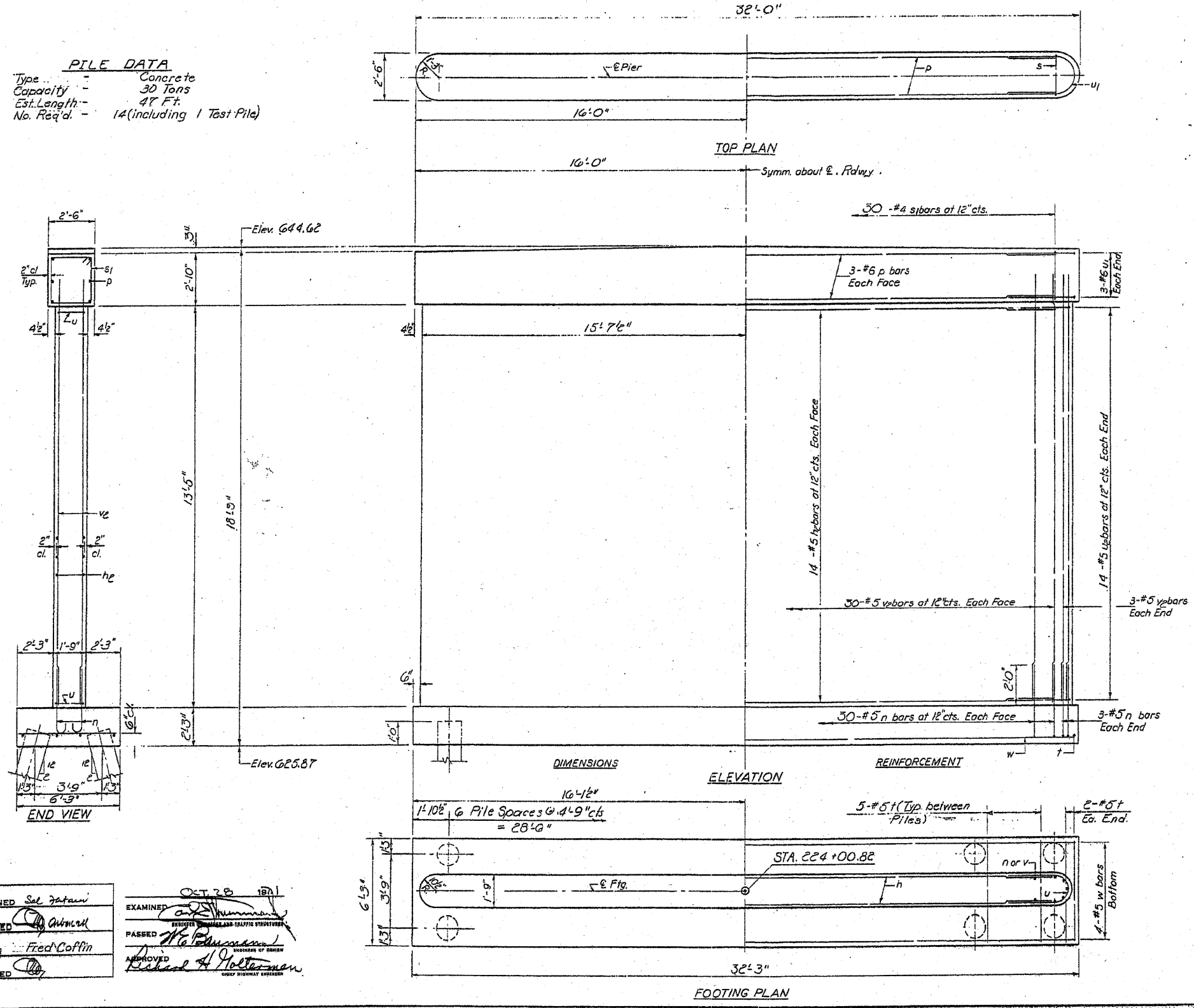
ABUTMENT  
CH. RT. F. SEC. (RBMFT) BR  
WHITESIDE COUNTY  
STA. 224+00.00

DATE: 6/1/7	SECTION: MF	PROJECT: WHITE SIDE	TOTAL SHEETS: 9	SHEET NO.: 5
SHEET NO. 5			7 SHEETS	

NOTE: All edges shall have standard 3/4" chamfer.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PILE DATA**  
 Type: Concrete  
 Capacity: 30 Tons  
 Est. Length: 47 FT.  
 No. Req'd: 14 (including 1 Test Pile)



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
n	28	#5	28'-0"	—
n	66	#5	4'-4"	—
p	6	#6	29'-6"	—
s1	30	#4	10'-1"	□
t	34	#5	6'-0"	—
u1	6	#6	6'-4"	—
u2	23	#5	5'-3"	—
v2	66	#5	18'-0"	—
w	4	#5	32'-0"	—
Class X Concrete		Cu. Yds.	32.2	
Reinforcement Bars		Lbs.	3220	
Concrete Piles		Lin. Ft.	47	
Test Piles (Concrete)		Each	1	

PIER  
 CH. R.T. SECKE (MFT) BR  
 WHITE SIDE COUNTY  
 STA. 224+00.82

DESIGNED: Sel Zetani  
 CHECKED: [Signature]  
 DRAWN: Fred Coffin  
 EXAMINED: [Signature] OCT 28 1971  
 PASSED: [Signature]  
 APPROVED: [Signature]