CONTRACT NO. 76454

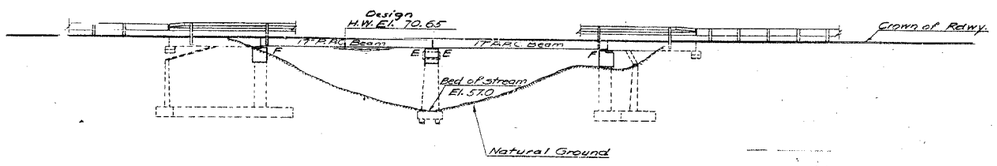
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
314	111BR-I	MADISON	123	108
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

B.M.: R.R. Spike in power pole 40' Rt. Station 155+39, Elev. = 78.58.
Existing Structure - Built 1928 as S.B.I. Rte. 150 Sec. 111-B Sta. 161+40 R.C.D.S., Conc. Abuts. 4" Conc. W.S. Superstructure to be removed by Contractor. No Salvage. Structure to be widened utilizing staged construction.

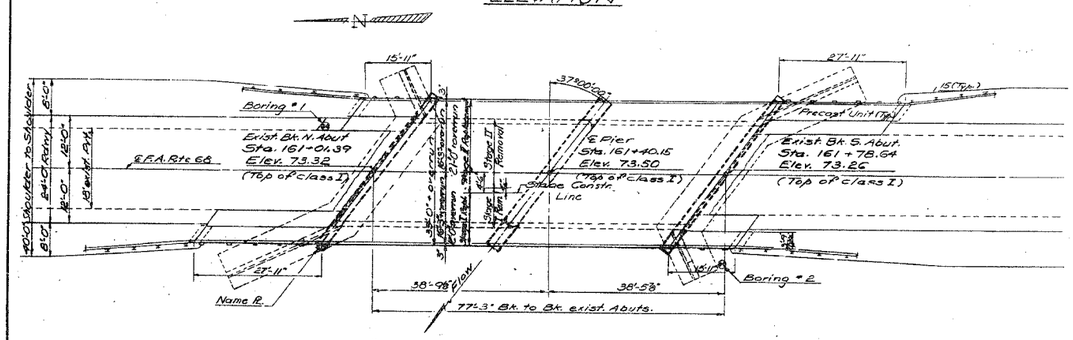
STATE OF ILLINOIS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 314	111BR	MADISON	38	28
PUBLISHED UNDER AUTH. OF	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
8 SHEETS



ELEVATION



PLAN

STATION 161+40
REBUILT 197 BY
STATE OF ILLINOIS
F.A.RTE 68 SECTION 111BR
LOADING: H.S 20
NAME PLATE
See Std. 2015-1

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

It shall be the responsibility of the contractor to verify all dimensions and conditions existing in the field prior to construction and ordering materials.

An alternate strand pattern using Extra High Strength Prestressing Strand (270 k.s.i.) is permitted.

Expansion bolts shall consist of self-drilling expansion anchors and ¾" ℄ hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete unless otherwise shown.

Shoulder transition to wingwall shall be shaped with broken concrete. Cost Incidental.

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

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Portland Cement Concrete Pvmt. (10")	Sq. Yds.	36		36
Pavement Fabric	Sq. Yds.	36		36
Concrete Removal	Cu. Yds.		20	20
Expansion Bolts (¾" ℄)	Each	52	84	136
Class X Concrete	Cu. Yds.	4.0	32.1	36.1
Precast Prestressed Conc. Dk. Beam (M)	Sq. Ft.	2338		2338
Precast Concrete Bridge Slab	Sq. Ft.	328		328
Steel Railing Type N	Lin. Ft.	243		243
Reinforcement Bars	Lbs.	180	4020	4200
Pav't Reinf. of PCC Pavt. Type I (10")	Sq. Yds.	8		8
Removal of Existing Superstructure	Each	1		1
Temporary Guard Rail	Lin. Ft.	77		77
Bit. Conc. Surf. Course (Mix) I	Ton	39		39
Neoprene Expansion Joint (2")	Lin. Ft.	42		42
Name Plates	Each		1	1
Waterproofing Membrane System	Sq. Yds.	285		285
Portland Cement Mortar Pairing Course	Lin. Ft.	769		769

Limits of Waterproofing Membrane System shall be back to back of abutments.

DESIGN STRESSES

WATERWAY INFORMATION

Drainage Area	6.080 Acres
Character:	
Required Opening	615 Sq. Ft.
Present Opening	572 Sq. Ft.
Proposed Opening (150% Rdwy.)	615 Sq. Ft.

Ordinary Water El. 58.0±
D.H.W. El. 70.65
Q(50) = 3886 cfs.

FIELD UNITS

f'_c = 1400 psi
f_s = 20,000 psi Reinf.
n = 10

PRESTR PRECAST UNITS

f'_c = 5000 psi
f'_{ci} = 4000 psi
f'_s = 248,000 p.s.i. (Strands ½")
f_{si} = 173,600 p.s.i. (Strands ½")

PRECAST CONC.

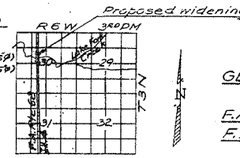
f'_c = 4500
f'_c = 1800
f_s = 20,000
n = 8

Loading HS 20 - 44
Note: Allow 25#/a' for future wearing surface

DESIGNED	Alla Hunt Lee
CHECKED	R. F. Rumsey
DRAWN	P.G.
CHECKED	H.T. Lee R.F. Rumsey

EXAMINED
PASSED
APPROVED

LOCATION SKETCH



GENERAL PLAN & ELEVATION

F.A.RTE 68 OVER LAKE FORK CREEK
F.A.RTE 68 SECTION 111 BR
MADISON CO.
STA. 161+40.00

FOR INFORMATION ONLY

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS

FAP ROUTE 314
SECTION 111BR-I
MADISON COUNTY

PLOT DATE = 10/6/2005
FILE NAME = c:\projects\ed02781\plan\pln02781s05.dgn
PLOT SCALE = 50.000 ' / IN.
REFERENCE = REF