

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

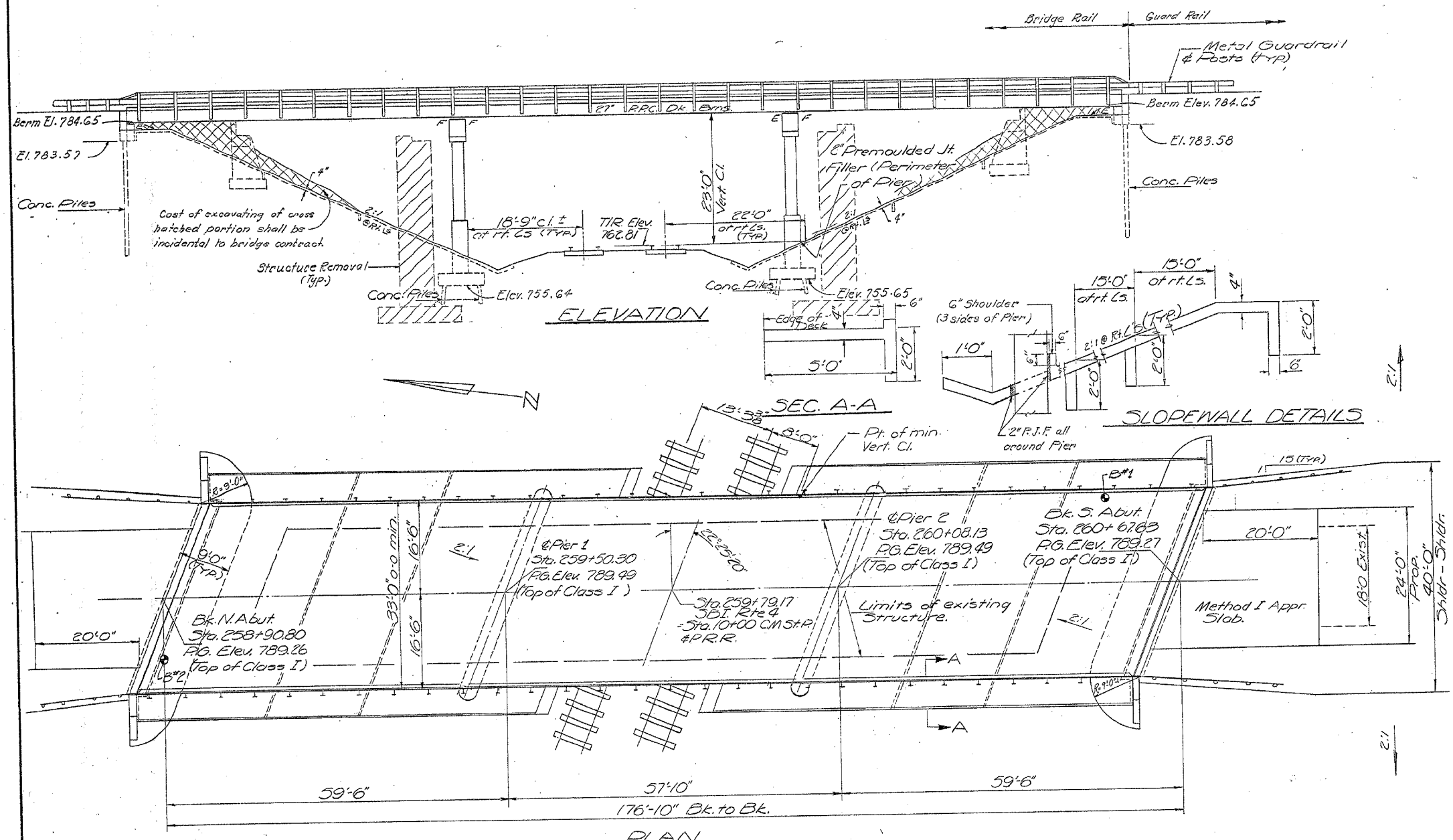
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
FAP 553	125VBR-1	DEKALB	55	36	8 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

B.M. USC #63, B.M. M130 1947 Top of NW Abut. 12.5' rt. Sta. 259+03 Elev. 785.44
Existing Structure: Built as SBI. 72, Sec. 125, Sta. 259+79.17 in 1931
Main Span of 70' is a thru-steel plate girder with a 7 gauge metal plank flooring. Approach spans of 30' on each end consist of RC Slab on steel stringers. RC Pier and Abut. Substr. Existing Bridge to be removed by Contractor prior to new constr. No Salvage.

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq. ft.
Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07 (c) of the Standard Specifications and are included in quantity of Structural steel.
The Contractor shall drive 2 concrete test piles in a permanent location one at pier #2 and one @ North Abutment.

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
All structural steel shall be shop painted with two coats of basic lead silico chromate paint.
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.



TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course, Class I	Tons	80		80
Removal of Existing Structures	Each			1
Class I Concrete	Cu. Yds.	14.5	152.8	167.3
Reinforcement Bars	Lbs.	910	20,190	21,100
Precast Prestressed Concrete Deck Bms. (27)	Sq. Ft.	5,722		5,722
Steel Railing, Type I	Lin. Ft.	348		348
Structural Steel	Lbs.	7,610		7,610
Concrete Piles	Lin. Ft.		1,664	1,664
Test Piles (Concrete)	Each		2	2
Preformed Joint Scaler (2 1/2")	Lin. Ft.	107		107
Name Plates	Each			1
Slope Wall (4")	Sq. Yds.		806	806
Waterproofing Membrane System	Sq. Yds.	598		598
Portland Cement Mortar Facing Course	Lin. Ft.	1734		1734
Protective Coat	Sq. Yds.	58		58
Structure Excavation	Cu. Yds.		86	86

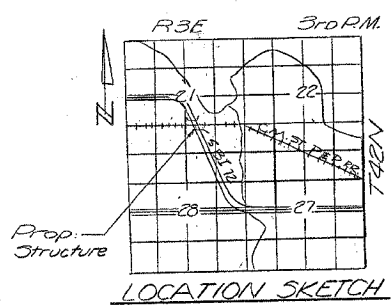
* FOR INFORMATION ONLY

DESIGN STRESSES

FIELD UNITS	PRECAST PRESTRESSED UNITS
$f_c = 1400$ psi	$f_c = 5000$ psi
$f_s = 20000$ psi (Reinf)	$f_s = 4000$ psi
$v_c = 75$ psi (Ftgs)	$f_s = 270000$ psi
$n = 10$	$f_s = 188,700$ psi

STATION 259+79.17
BUILT 19 BY
STATE OF ILLINOIS
S.B.1. RT. 72 SEC. 125 VBR
LOADING H5 20

NAME PLATE
See Std. 2113



GENERAL PLAN and ELEVATION
SBI. RTE 72 over C.M. ST. P. & P. R.R.
SBI. RTE 72 SEC. 125 VBR
DEKALB COUNTY
STATION 259+79.17

DESIGNED <i>R. Mathews</i>	EXAMINED <i>[Signature]</i> JAN 31 1975
CHECKED <i>D.A.R.</i>	PASSED
DRAWN <i>Ferrando</i>	APPROVED
CHECKED <i>D.A.R.</i>	

Allow 25#/Sq.Ft. for F.U.N.S.
Design Specifications 1973 AASHTO
(as applicable)

LOADING H520-44

