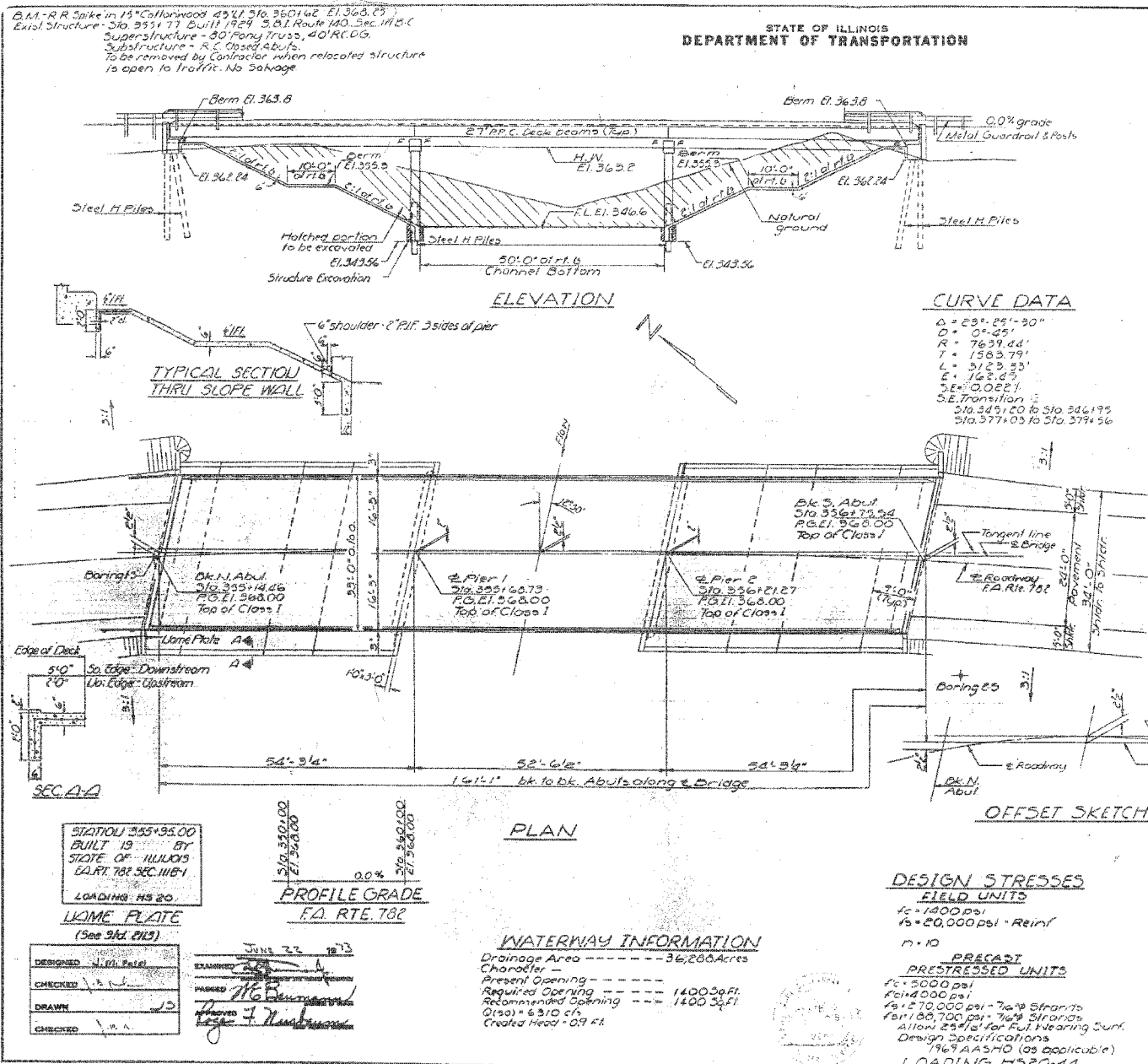


ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
782	111BR-1	GALLATIN	73	64
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract #78034

07056-84 365.412 365.375
364.681 364.681



ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
782	111BR-1	GALLATIN	73	64

GENERAL NOTES

All reinforcement bars shall be lapped 4d diameters unless otherwise shown.
 All structural steel shall be shop primed with two coats of basic lead silico chromate paint.
 Expansion guards which are not cast in the precast shall be fabricated and erected in accordance with Article 903.07(c) of the Standard Specifications and are included in quantity of structural steel.
 Slope wall shall be reinforced with wadded wire fabric 6"x6 mesh weighing 58# per 100 sq. ft.
 Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.
 Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
 The contractor shall drive two steel test piles in permanent locations, one in the South Abut. and one in Pier 1, as directed by the Engineer before ordering the remainder of piles.
 The top surface of the beams shall be finished in accordance with Article 903.06 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.

CURVE DATA

$\Delta = 29^{\circ} 25' 30''$
 $D = 0^{\circ} 25'$
 $R = 7639.44'$
 $T = 1583.79'$
 $L = 5123.33'$
 $E = 128.85'$
 $SE = 0.0021$
 S.E. Transition
 Sta. 345+00 to Sta. 346+95
 Sta. 377+05 to Sta. 379+56

TOTAL BILL OF MATERIAL

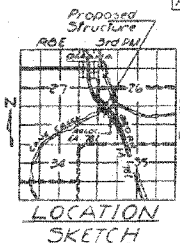
Item	Unit	Super	Sub.	Total
Dimensional Concrete				
Surface Course Class I	Tons	90		90
Removal of Existing				
Structures	Each			
Class I Concrete	Cu. Yds	12.3	151.4	163.7
P.P.C. Deck Beams 27"	Sq. Ft.	2210		2210
Structural Steel	Lbs.	4520		4520
Steel Piling (Type I)	Lin. Ft.	320		320
Reinforcement Bars	Lbs.	900	10210	11110
Lane Plates	Each	1		1
Protective Coat	Sq. Yds	53		53
Waterproofing Membrane System	Sq. Yds	552		552
Preformed Joint Sealer P.V.	Lin. Ft.	66		66
Channel Excavation	Cu. Yds			1932
Steel Piles 12" Dia	Lb. Ft.			1934
Test Piles Steel HP 12x42	Each			2
Slope Wall G.	Sq. Yds			451
Structure Excavation	Cu. Yds			70
Portland Cement Mortar	Lin. Ft.	1579		1579
Fairing Course	Lin. Ft.			1579

DESIGN STRESSES

FIELD UNITS
 $f_c = 1400 \text{ psi}$
 $f_s = 20,000 \text{ psi - Reinf}$
 $n = 10$
 PRECAST
 PRESTRESSED UNITS
 $f_c = 5000 \text{ psi}$
 $f_s = 40000 \text{ psi}$
 $f_s = 270,000 \text{ psi - 7/8" Strands}$
 $f_s = 100,700 \text{ psi - 7/8" Strands}$
 Allow 25% for P.L. Wearing Surf.
 Design Specifications
 1969 AASHTO (as applicable)
 LOADING H20-44

WATERWAY INFORMATION

Drainage Area ----- 36,260 Acres
 Character -----
 Present Opening -----
 Required Opening ----- 1400 Sq. Ft.
 Recommended Opening ----- 1400 Sq. Ft.
 0150' x 310' c/c
 Crested Weir - 09' c/c



PROJECT F-782 (1)
 GENERAL PLAN AND ELEVATION
 CANE CREEK
 F.A. ROUTE 782
 SECTION 111B-1
 GALLATIN COUNTY
 STATION 355+95

STATION 355+95.00
 BUILT IN 1924 BY
 STATE OF ILLINOIS
 G.A.R.T. 782 SEC. 111B-1
 LOADINGS HS 20

PROFILE GRADE
 F.A. RTE. 782

DESIGNED	N. G. Patel	EXAMINED	[Signature]
CHECKED	[Signature]	PAVED	[Signature]
DRAWN	[Signature]	APPROVED	[Signature]
CHECKED	[Signature]		

PLOT DATE = 04/17/2008
 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = CFC

EXISTING STRUCTURE PLANS
 F.A. RTE. 782 SECTION 111B-1
 GALLATIN COUNTY
 STATION 355+95.00
 STRUCTURE NO. 030-0018

PROJECT NO. 07056-4
 COOMBE-BLOXDORF P.C.
 Engineers / Land Surveyors
 Springfield, Illinois
 Design Firm License No. 184-002703