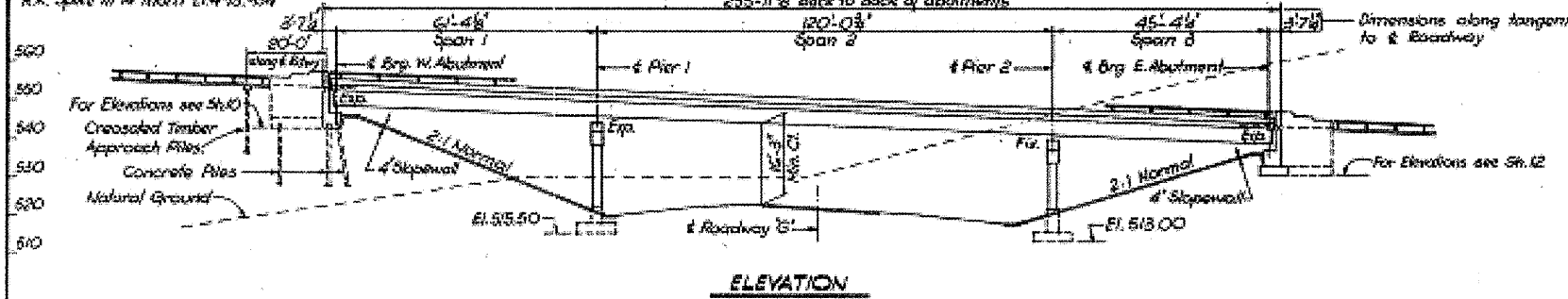
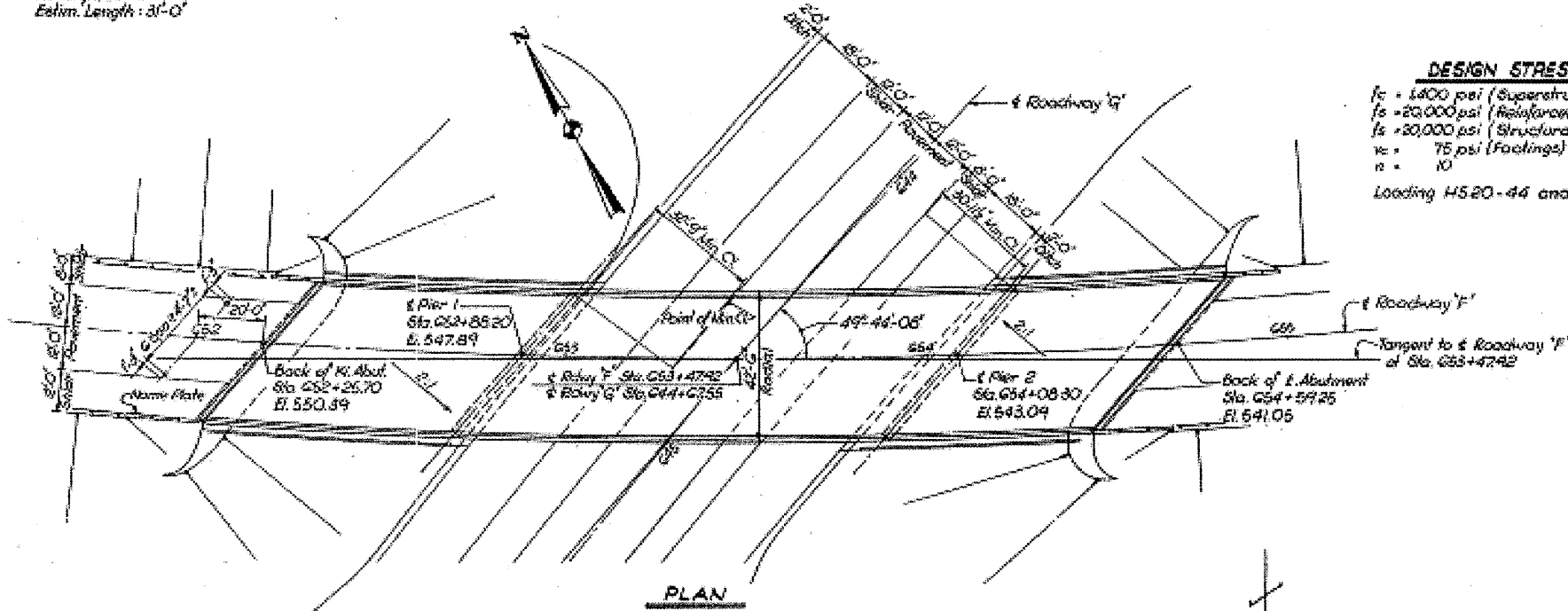


Branch Mark No. 88
 250' Left Sta. 607+50 (Survey @ E.A.I. 180)
 R.R. Spike in W. Abutment El. 498.934



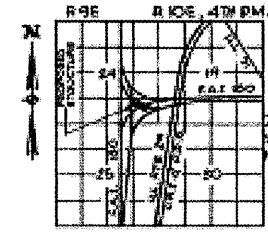
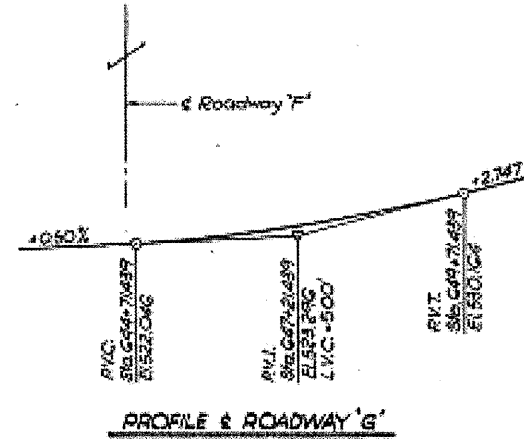
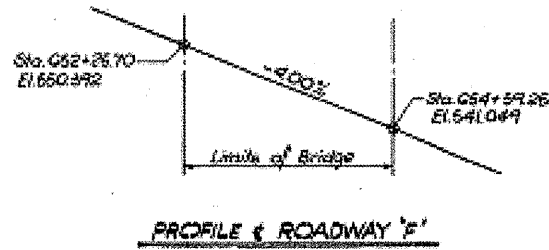
APPROACH PILE DATA

Type: Crossed Timber
 No. Required: 7
 Estim. Length: 31'-0"



HORIZONTAL CURVE DATA

Roadway 'F'	Roadway 'G'
PI + 653+08.50	PI + 654+08.70
Δ = 91° 36' 27"	Δ = 89° 22' 23"
D = 5'-00'-00"	D = 3'-00'-00"
R = 1109.859'	R = 1109.859'
T = 1109.859'	T = 1109.859'
L = 3053.583'	L = 2979.102'
E = 629.790'	E = 770.483'
PC = 653+44.87	PC = 653+73.62
PT = 653+47.90	PT = 654+52.72



LOCATION PLAN

DESIGN STRESSES

$f_c = 4000$ psi (Superstructure & Substructure)
 $f_s = 20,000$ psi (Reinforcement)
 $f_s = 30,000$ psi (Structural Steel)
 $w_c = 75$ psi (Footings)
 $n = 10$
 Loading HS-20-44 and alternate

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. - 180	06-2HB-4	BUREAU	103	8
FED. ROAD DIST. NO. 4	ILLINOIS	PROJECT	I-180-7143	

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and end post must be absolutely free of chert, flint, limestone, lignite and soft sandstone.
 The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications.
 Slope Wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 500 lbs per 100 Sq. Ft.
 All reinforcement bars shall be lapped 20 diameters unless otherwise shown.
 All structural steel shall conform to A.S.T.M. specifications Designation A-36.
 Expansion guards shall be fabricated and erected in accordance with Article 51.13 (b) of the Standard Specifications.
 The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted.
 Expansion guards are included in the quantity of Structural Steel. Estimated weight 2220 lbs.
 Concrete piles at abutment shall be driven to holes precast through the embankment in accordance with Article 51.9 (c) of the Standard Specifications.
 The Contractor shall drive one (1) test pile in a permanent location at each of the following locations: W. Abutment.
 The test pile for each location must be driven before ordering the remainder of piles.
 Excavation for portions of structures in the Embankments shall be classified.
 Except as otherwise provided, all Structural Steel shall receive one shop coat of hot lead paint and two field coats of paint. See Special Provisions for Paints.
 All cross reference sheet numbers shown on the bridge plans are the numbers located in the lower right hand corner of each sheet.
 All welding shall conform to the Standard Specifications for Welded Highway and Railway Bridges of the American Welding Society, AWS, E-30-GG.
 All Field Connections Bolts, High Strength Steel Bolts 7/8", open holes 1 1/16" except as noted.
 High Strength Steel Bolt Connections shall be in accordance with Article 54.2g of the Standard Specifications.
 Anchor bolts shall be set before bolting diaphragms over supports.
 Permanent forms will not be permitted in forming the concrete floor. Future Yds. 358/Sq Ft.

TOTAL BILL OF MATERIAL

Item	Unit	Superstr	Substr.	Total
Class 'A' Foundation for Structures	Cu. Yds	-	480	480
Class 'X' Concrete	Cu. Yds	2837	3305	6142
Protective Coat	Sq. Yds	1103	-	1103
Furnishing & Erecting Structural Steel	Lbs	380,270	-	380,270
Reinforcement Bars	Lbs	85,160	43,200	128,360
Furnishing Crossed Timber Piles (20' x 36" O.D.)	Lin. Ft.	-	217	217
Driving Timber Piles	Lin. Ft.	-	217	217
Driving Concrete Piles	Lin. Ft.	-	392	392
Furnishing Concrete Piles	Lin. Ft.	-	392	392
Test Piles (Concrete)	Eq.	-	1	1
Name Plates	Eq.	-	1	1
Slope Wall Finish	Sq. Yds	-	772	772
Aluminum Handrail	Lin. Ft.	458	-	458
Bridge Seat Sealant*	Lamp/mt	-	.34	.34

* At Abutments only.

BRIDGE NO. 8

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BLDGS.
 DIVISION OF HIGHWAYS
GENERAL PLAN
 ROADWAY "F" OVER ROADWAY "G"
 STATION 653+47.92
 F. A. I. RT. 180 BUREAU COUNTY SECTION 06-2HB-4
 H. W. LOCHNER, INC.
 ENGINEERS
 CHICAGO, ILLINOIS
 SHEET
 1 OF 18

APPROVED
FOR INFORMATION ONLY

DESIGNED BY: A.T.
 DRAWN BY: E.C.
 CHECKED BY: A.T.
 APPROVED BY: R.A.

Revised: In Total Bill of Material, Bar quantities in separate sheets changed from 77,350' x 120,550' to 85,160' x 120,550' respectively - 1/24/07