

BENCHMARK: Chiseled square top SE wingwall of SN 058-0056, approximately 350' north of overhead railroad bridge, Sta. 135+57.43, 42.28' Rt., Elev. 628.10

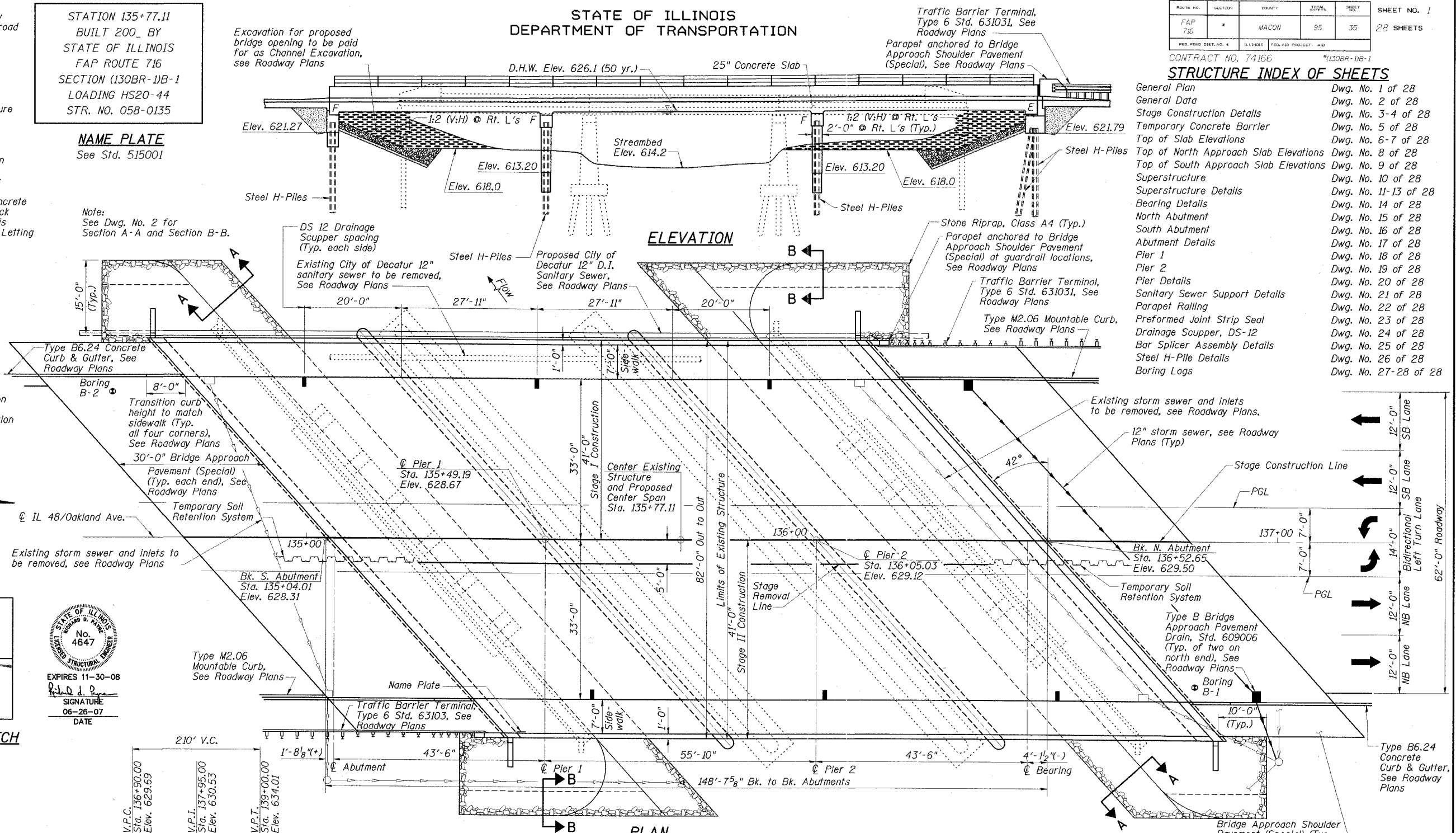
EXISTING STRUCTURE: SN 058-0056 was originally built in 1932. The superstructure was replaced, and the substructure widened in 1975. The structure consists of 3 spans of PPC deck beams on closed abutments and solid wall piers supported on untreated timber piles. In September of 2006, repairs were made to remove and replace the top 3'-4" of concrete of select deck beams. A deck beam replacement contract is scheduled for a June 2007 Letting date. The bridge is 117'-1 1/2" bk.-bk. abuts. and 82'-0" o.-o. deck. Existing structure is to be removed and replaced. One lane of traffic will be maintained in each direction utilizing stage construction.

STATIONING: Centerline stationing was established by IDOT District 5 surveys by honoring a permanent survey marker at plan station 124+75.00. This put the center of the bridge at station 135+77.11. Existing bridge plans show the center of bridge at 135+77.00.

STATION 135+77.11  
BUILT 200\_ BY  
STATE OF ILLINOIS  
FAP ROUTE 716  
SECTION (130BR-1)B-1  
LOADING HS20-44  
STR. NO. 058-0135

NAME PLATE  
See Std. 515001

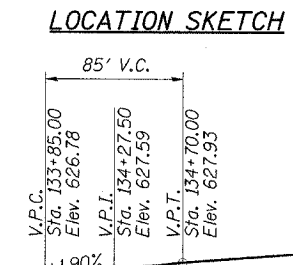
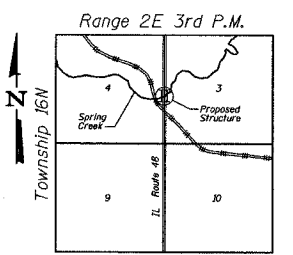
Note:  
See Dwg. No. 2 for  
Section A-A and Section B-B.



ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
FAP 716	*	MACON	95	35
CONTRACT NO. 74166				

STRUCTURE INDEX OF SHEETS

General Plan	Dwg. No. 1 of 28
General Data	Dwg. No. 2 of 28
Stage Construction Details	Dwg. No. 3-4 of 28
Temporary Concrete Barrier	Dwg. No. 5 of 28
Top of Slab Elevations	Dwg. No. 6-7 of 28
Top of North Approach Slab Elevations	Dwg. No. 8 of 28
Top of South Approach Slab Elevations	Dwg. No. 9 of 28
Superstructure	Dwg. No. 10 of 28
Superstructure Details	Dwg. No. 11-13 of 28
Bearing Details	Dwg. No. 14 of 28
North Abutment	Dwg. No. 15 of 28
South Abutment	Dwg. No. 16 of 28
Abutment Details	Dwg. No. 17 of 28
Pier 1	Dwg. No. 18 of 28
Pier 2	Dwg. No. 19 of 28
Pier Details	Dwg. No. 20 of 28
Sanitary Sewer Support Details	Dwg. No. 21 of 28
Parapet Railing	Dwg. No. 22 of 28
Preformed Joint Strip Seal	Dwg. No. 23 of 28
Drainage Scupper, DS-12	Dwg. No. 24 of 28
Bar Splicer Assembly Details	Dwg. No. 25 of 28
Steel H-Pile Details	Dwg. No. 26 of 28
Boring Logs	Dwg. No. 27-28 of 28



PROF. GRADE  
(Along inside edge of northbound and southbound passing lanes)

WATERWAY INFORMATION

Drainage Area = 23.12 Sq. Mi.      Exist. Low Grade Elev. = 626.53 Ft. @ Sta. 134+00  
Prop. Low Grade Elev. = 627.30 Ft. @ Sta. 134+00

Flood	Frequency Year	Discharge (CFS)	Waterway Opening - Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	2125	527	680	624.6	0.3	0.2	624.9	624.8
Base	50	3119	553	741	626.1	1.0	0.4	627.1	626.5
Overtopping	100	3764	553	741	627.3	0.4	0.3	627.7	627.6
Overtopping	40	2927	553	-	625.8	0.9	-	626.7	-
Overtopping	60	3549	-	741	627.0	-	0.4	-	627.4

DESIGN SPECIFICATIONS

2002 AASHTO  
LOADING HS20-44  
Allow 50 psf for future wearing surface.  
DESIGN STRESSES  
FIELD UNITS  
f'c = 3,500 psi  
fy = 60,000 psi (Reinf.)  
SEISMIC DATA  
Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.048g  
Site Coefficient (S) = 1.5

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY  
Ralph E. Anderson (PE)  
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN  
IL ROUTE 48  
OVER SPRING CREEK  
FAP ROUTE 716 - SECTION (130BR-1)B-1  
MACON COUNTY  
STATION 135+77.11  
STRUCTURE NO. 058-0135

ESCA CONSULTANTS, INC.  
DESIGNED BY: ELH 03/07  
DRAWN BY: cj 03/07  
CHECKED BY: ELH 06/07  
APPROVED BY: RDP 06/07

DESIGN SCOUR ELEVATIONS

North Abutment	621.6
Pier 1	612.0
Pier 2	612.0
South Abutment	621.1