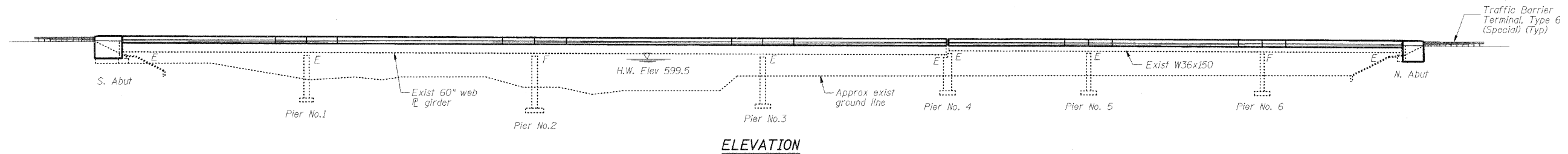


TBM
Chiseled square southwest corner
of southeast wingwall
Elevation 611.21

Sheet No 1
of 30 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1539	*	MACON	57	4
FEDERAL DISTRICT	ILLINOIS	PROJECT		

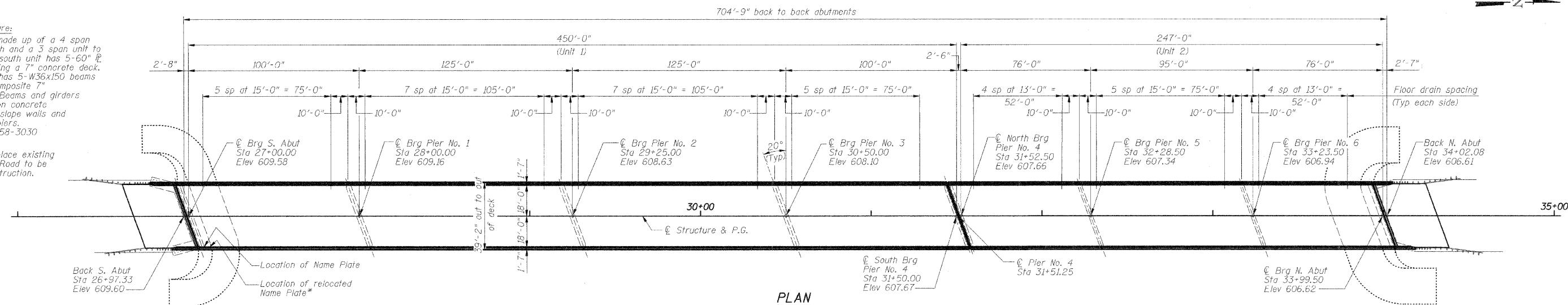
*00-00155-00-BR



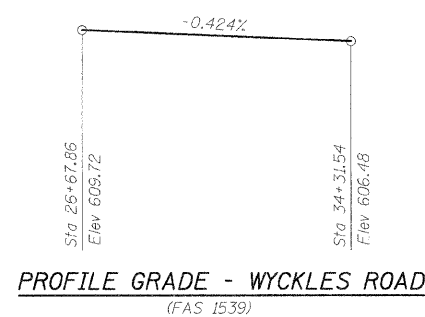
ELEVATION

Existing Structure:
7 span bridge made up of a 4 span unit to the south and a 3 span unit to the north. The south unit has 5-60" I girders supporting a 7" concrete deck. The north unit has 5-W36x150 beams supporting a composite 7" concrete deck. Beams and girders are supported on concrete abutments with slope walls and solid concrete piers. Structure No. 058-3030

Remove and replace existing concrete deck. Road to be closed for construction.



PLAN



PROFILE GRADE - WYCKLES ROAD
(FAS 1539)

BOYER'S FORD BRIDGE
SANGAMON RIVER
RE-BUILT 200 BY
MACON COUNTY
SEC 00-00155-00-BR
PROJECT NO. BHS-1539(105)
STA 30+50.00
STR NO 058-3030
LOADING HS20

NAME PLATE

See Std 515001
*Existing name plate shall be cleaned and relocated adjacent to new name plate. Cost included with "Name Plates."

DESIGN SPECIFICATIONS

2002 AASHTO 17th Edition
LOADING HS20-44
Allow 25 lb/sq ft for future wearing surface.

DESIGN STRESSES

New Construction
f'c = 3,500 psi (concrete)
fy = 60,000 psi (reinforcement)
fy = 36,000 psi (M270 Grade 36)
fy = 50,000 psi (M270 Grade 50)

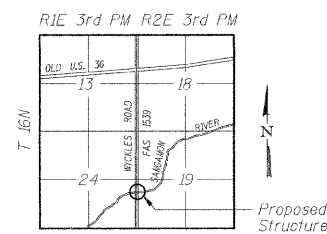
Existing Construction
f'c = 3,500 psi
fy = 40,000 psi (reinforcement)
fy = 36,000 psi (structural steel)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = .048
Site Coefficient (S) = 1.5

Thomas
1-21-09
CHICAGO STRUCTURAL ENGINEERS
Expires 11-30-10

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO Standard Specifications for Highway Bridges."



LOCATION SKETCH

WYCKLES ROAD OVER THE SANGAMON RIVER

GENERAL PLAN AND ELEVATION

REVISIONS	FAS 1539	SECTION 00-00155-00-BR	DRAWN BY DATE
1			R KING 9/08
2			CHECKED BY DATE
3			JMB 9/08
4			BOOK NUMBER
5			389
6			PROJECT NO.
7			4698
8			SHEET NO.
9			
10			

STA 30+50.00 SN 058-3030 MACON COUNTY

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-91397

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