Bench Mark: Chiseled square on headwall of 2'x2' box culvert along north side of Old U.S. 36 west bound lanes; approximately 200' east of existing structure. Elevation NAVD '88 = 539.66.

Existing Structure: S.N. 084-0086, originally built in 1958 as F.A. Route 49, Section 19X-2-HB-1. The existing structure consists of 3 simple span rolled steel beams placed on chords supported on pile bent abutments and 3 column piers on pile supported footings. The back to back abutment measures 180'-6" and the out to out of deck is 28'-0". The structure is to be removed and replaced. Traffic is to be detoured. (Both Camp Butler Road and W.B. Old US Rt. 36 will be closed during construction.)

No salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

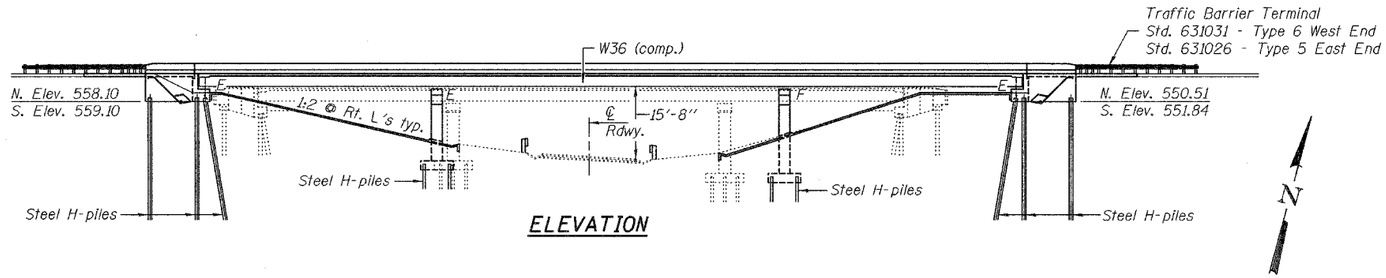
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 7968	*	SANGAMON	261	171
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
33 SHEETS

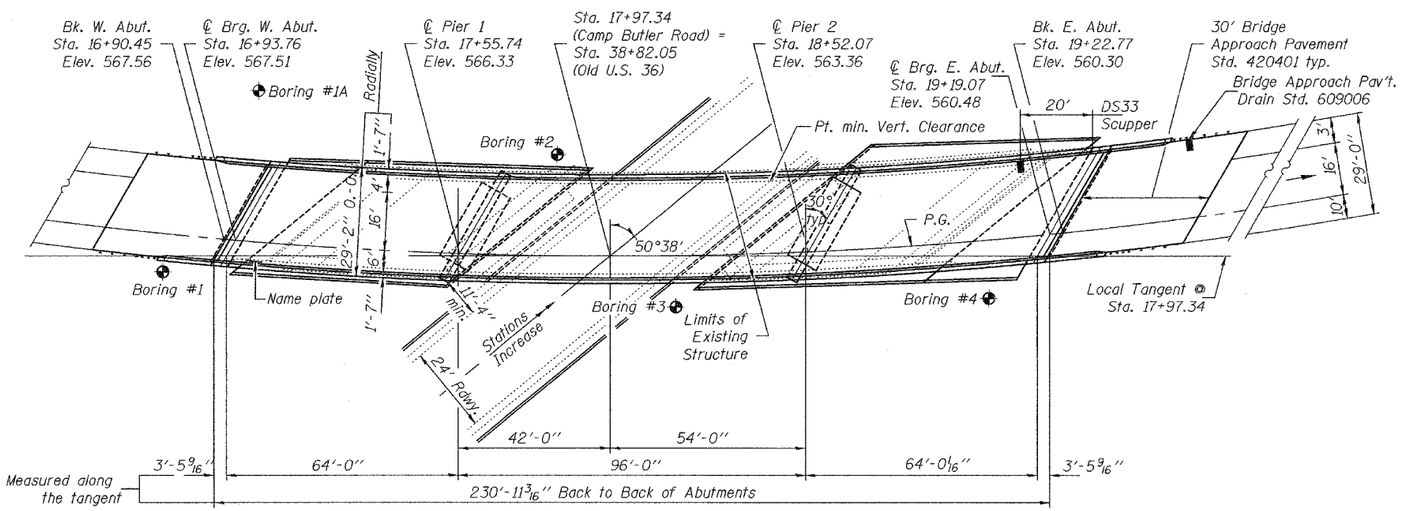
Contract #72449 *SECTION 3R(BR, BR-1, BR-2)19RS-8

INDEX OF SHEETS

1. General Plan
2. General Data
3. Footing Layout
4. Slopewall Details
5.-6. Top of Slab Elevations
7. Superstructure
8.-9. Superstructure Details
10. Strip Seal Expansion Joint
11. Drainage Scupper, DS-33
12. Structural Steel
13.-14. Structural Steel Details
15.-16. Expansion Bearing Details
17. Fixed Bearing Details
18. Anchor Bolt Details
19. West Abutment
20. West Abutment Details
21. West Abutment Wingwall Details
22. East Abutment
23. East Abutment Details
24. East Abutment Wingwall Details
25. Pier 1
26. Pier 1 Footing Plan
27. Pier 2
28. Pier 2 Footing Plan
29. Existing Substructure Conflict
30. Bar Spilcer Assembly Details
31.-33. Boring Logs



ELEVATION

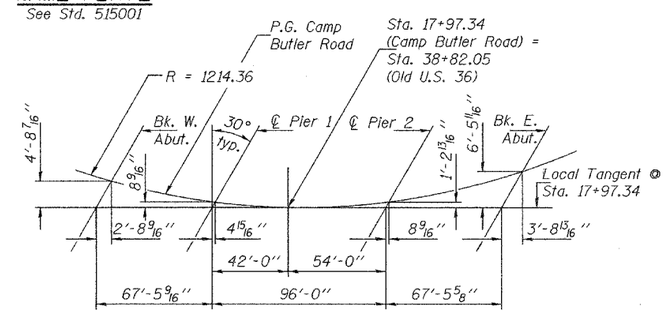


PLAN

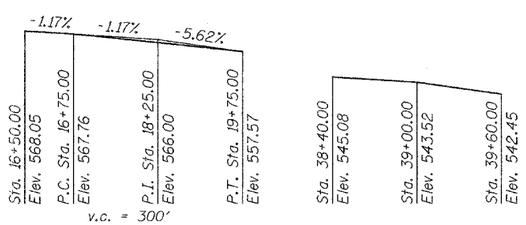
STATION 17+97.34
BUILT 20 BY
STATE OF ILLINOIS
FAS ROUTE 631 - SECTION 3R(BR, BR-1, BR-2)19RS-8
LOADING HS20-44
STR. NO. 084-0518

NAME PLATE

See Std. 515001



OFFSET SKETCH



PROFILE GRADE

(Eastbound Camp Butler Road)

PROFILE GRADE

(℄ Westbound Old U.S. 36)

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2002 AASHTO
2003 AASHTO Guide Specification for Horizontally Curved Bridges

DESIGN STRESSES

FIELD UNITS
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (M270 Grade 50)

SEISMIC DATA

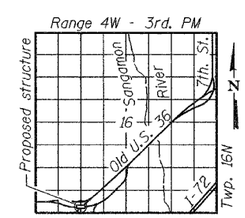
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.05g
Site Coefficient (S) = 1.0

CURVE DATA

(Camp Butler Road)
D = 46°01'00"
R = 1,214.36'
T = 515.67'
L = 975.30'
E = 104.95'
S.E. = .077'/'
P.C. Sta. = 11+09.20
P.T. Sta. = 20+84.50

CURVE DATA

(Old U.S. 36)
D = 17°29'37"
R = 3,348.31'
T = 515.17'
L = 1,022.31'
E = 39.40'
S.E. = .024
P.C. Sta. = 35+34.20
P.T. Sta. = 45+56.51



LOCATION SKETCH

GENERAL PLAN
CAMP BUTLER ROAD OVER WESTBOUND OLD U.S. ROUTE 36
F.A.U. ROUTE 7968
SECTION 3R(BR, BR-1, BR-2)19RS-8
SANGAMON COUNTY
STATION 17+97.34
STRUCTURE NO. 084-0518

DESIGNED	
CHECKED	
DRAWN	htd BECKY M. LEACH
CHECKED	

December 2, 2005
EXAMINED Thomas J. Domylski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS RALPH E. ANDERSON 081-004625 SPRINGFIELD LICENSED STRUCTURAL ENGINEER

EXPIRES 11-30-2006

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