

Benchmark: Steel plug in concrete @ median, Sta. 225+00, Elev. 579.00

Existing Structures: SN 081-0020 and SN 081-0021 originally built in 1964 as FAI 280, Section 81-1-HB1. Both structures were rehabilitated in 1989 by scarifying and over-laying the deck, traffic barrier upgrade, bearing replacement and expansion joint replacement as Section 81-1HBY-1. The existing structures consist of 3-span continuous concrete beams with integral concrete deck supported on pile bent abutments and multiple column piers on spread footings. The structures are 156'-11" long back to back abutments and 35'-8" wide o. to o. deck. The existing structures are to be removed and replaced with wider structures. Traffic will be maintained using crossovers.

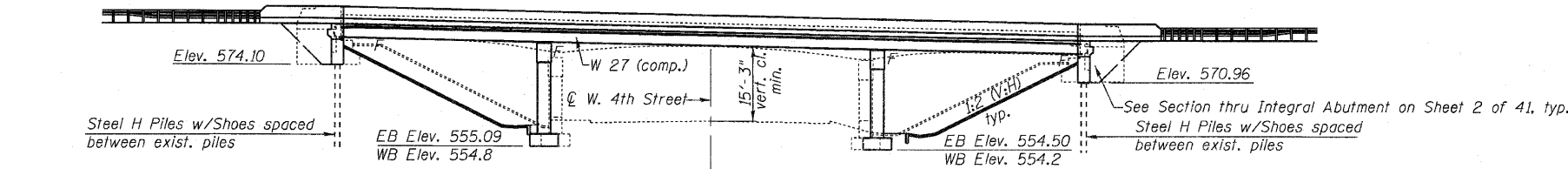
No Salvage.

STATION 241+67.32
BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 280 SEC. 81-1(HB-1)
LOADING HS20 & ALT.
STRUCTURE NO. 081-0190

WB NAME PLATE
See Std. 515001

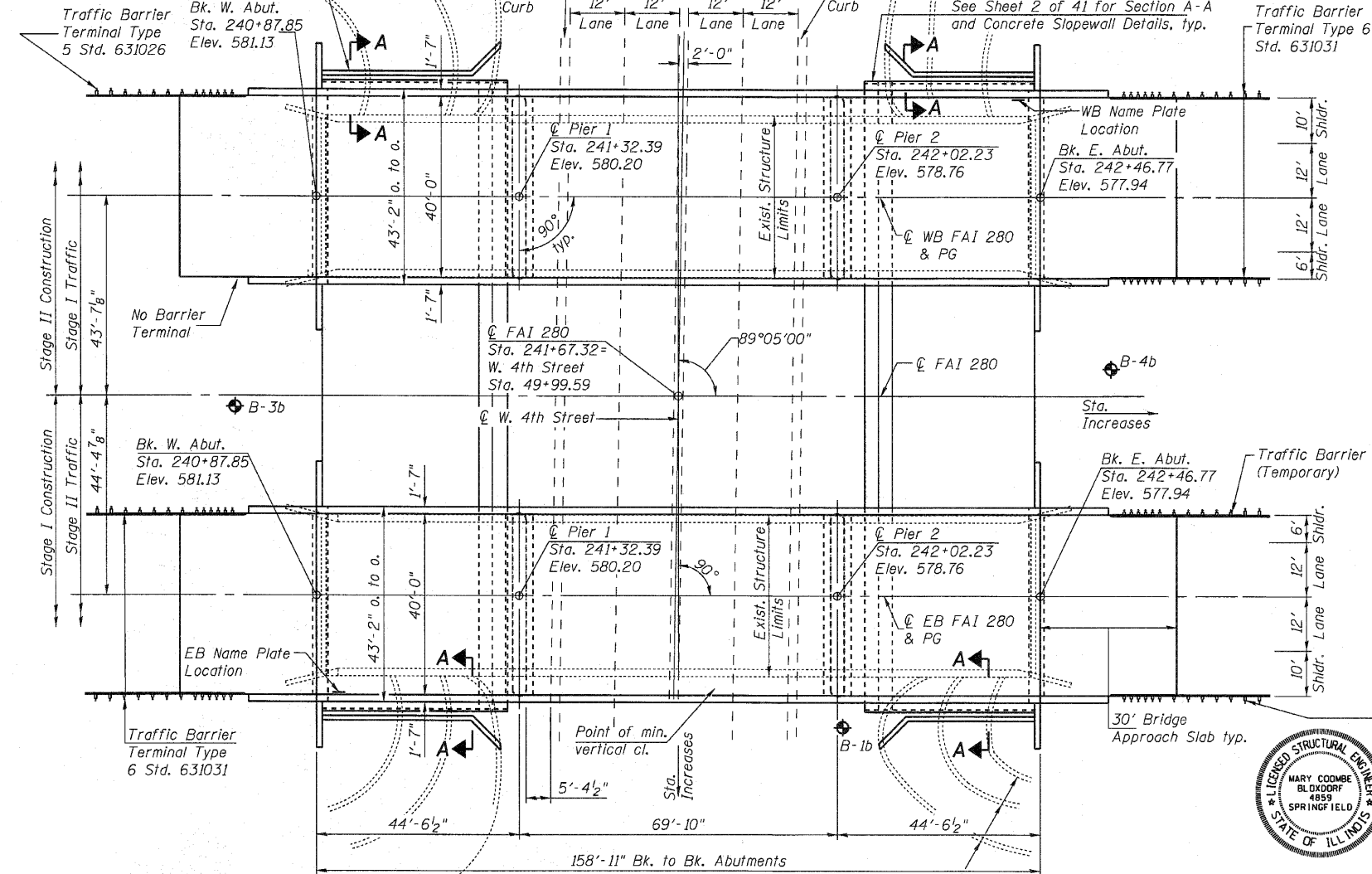
STATION 241+67.32
BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 280 SEC. 81-1(HB-1)
LOADING HS20 & ALT.
STRUCTURE NO. 081-0191

EB NAME PLATE
See Std. 515001



ELEVATION

See Sheets 3 and 4 of 41 for Segmental Concrete Block Wall Layout and Details, typ. For Information Only



PLAN

Existing landscape walls.
See Sheet 4 of 41 for removal limits
For Information

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.034
Site Coefficient (S) = 1.0

DESIGN SPECIFICATIONS

AASHTO 2002

LOADING HS20-44 & ALT.

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

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
 f_y = 60,000 psi (Reinforcement)
 f_y = 50,000 psi (M270 Grade 50-primary members)
 f_y = 36,000 psi (M270 Grade 36)

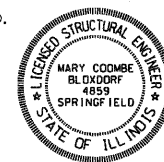
INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Footing and Segmental Concrete Block Wall Layout
- 4 Segmental Concrete Block Wall Details
- 5-8 Top of Slab Elevations WB
- 9 Top of West Approach Slab Elevations WB
- 10 Top of East Approach Slab Elevations WB
- 11-14 Top of Slab Elevations EB
- 15 Top of West Approach Slab Elevations EB
- 16 Top of East Approach Slab Elevations EB
- 17 Superstructure WB
- 18 Superstructure EB
- 19 Superstructure Details
- 20 Integral Abutment Diaphragm Details
- 21 Bridge Approach Slab Details WB
- 22 Bridge Approach Slab Details EB
- 23 Bridge Approach Slab Details
- 24 Framing Plan
- 25 Structural Steel Details
- 26 Bearing Details
- 27 West Abutment WB
- 28 East Abutment WB
- 29 West Abutment EB
- 30 East Abutment EB
- 31 Pier 1 WB
- 32 Pier 2 WB
- 33 Pier 1 EB
- 34 Pier 2 EB
- 35 HP Pile Details
- 36 Bar Splicer Assembly and Mechanical Splicer Details
- 37 Cantilever Forming Brackets for Superstructures with W27 Beams and Smaller
- 38 Concrete Parapet Slipforming Option
- 39-41 Boring Logs

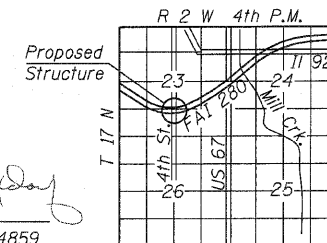
APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TSO)
ENGINEER OF BRIDGES AND STRUCTURES

Traffic Barrier Terminal
Type 5 Std. 631026



ILLINOIS STRUCTURAL NO. 4859
EXPIRES 11/30/10
DATE: 07/21/10



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
I-280 OVER W. 4TH STREET
F.A.I. 280, SEC. 81-1 (HB-1)
ROCK ISLAND COUNTY
STA. 241+67.32
STRUCTURE NO. 081-0190 (WB)
STRUCTURE NO. 081-0191 (EB)

CB Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

PROJECT NO. 090333
SCALE
DATE 5/18/10
DESIGN BY GB/MCB
DRAWN BY TFG
CHECKED BY MCB

SHEET NO. 1
41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
280	81-1 (HB-1)	ROCK ISLAND	503	242
CONTRACT NO. 64815				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				