

B.M.: None

Existing Structure: 3 span PPC Deck Beam Bridge with bituminous wearing surface and concrete curbs. Precast concrete pile bent piers and timber pile supported stub abutments. Contractor to remove and replace superstructure. Road to be closed during construction.

No Salvage

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

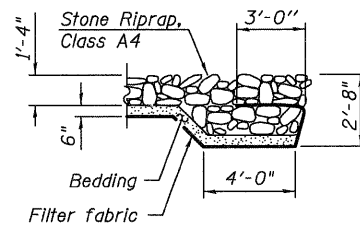
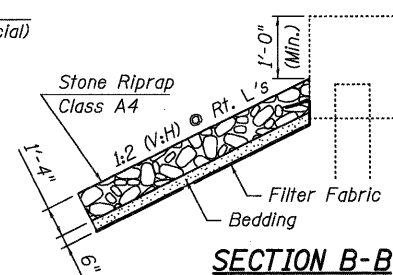
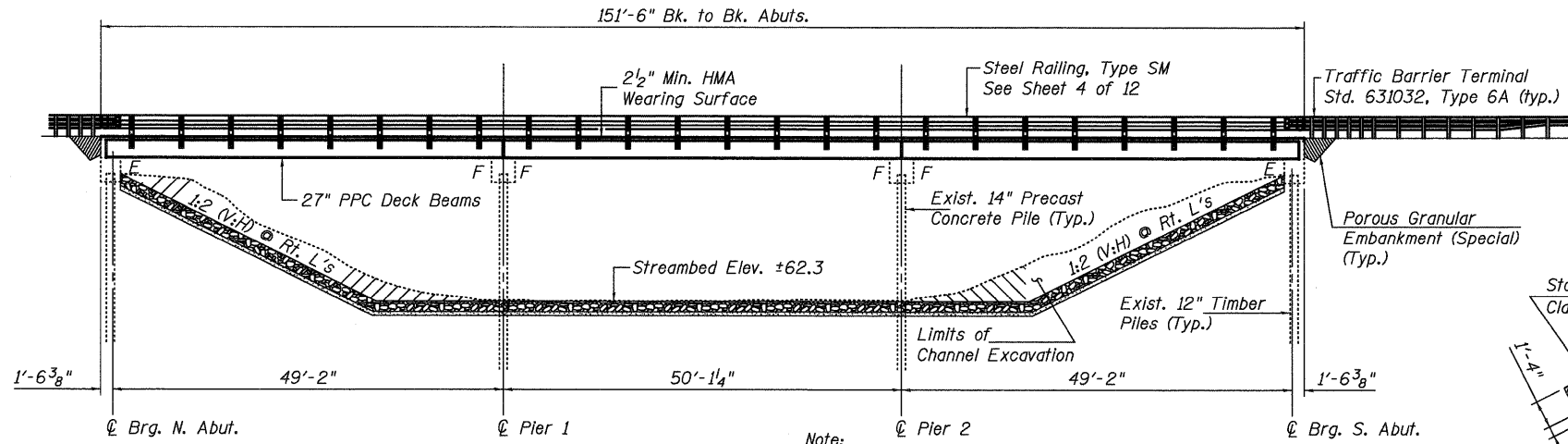
- 1. General Plan & Elevation
2.-3. PPC Deck Beam Details
4. Superstructure Details
5. Steel Railing, Type SM
6. Substructure Repairs
7.-12. Existing Bridge Plans

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions. Reinforcement bars designated (E) shall be epoxy coated. Plan dimensions and details relative to existing plans are subject to nominal construction variations.

TOTAL BILL OF MATERIAL

Table with 5 columns: ITEM, UNIT, SUPER, SUB, TOTAL. Lists materials like Channel Excavation, Stone Riprap, and Precast Prestressed Concrete Deck Beams.



SECTION A-A

LOADING HS20-44
No future wearing surface allowed.

DESIGN SPECIFICATIONS

2002 AASHTO
DESIGN STRESSES
FIELD UNITS (NEW CONST.)

f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2" low-lax strands)
f'si = 201,960 psi (1/2" low-lax strands)

FIELD UNITS (EXISTING CONST.)

f'c = 3,500 psi
fy = 40,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.161g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.301g
Soil Site Class = D



Expires: 11/30/2010

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.

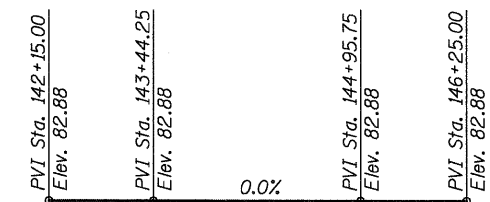
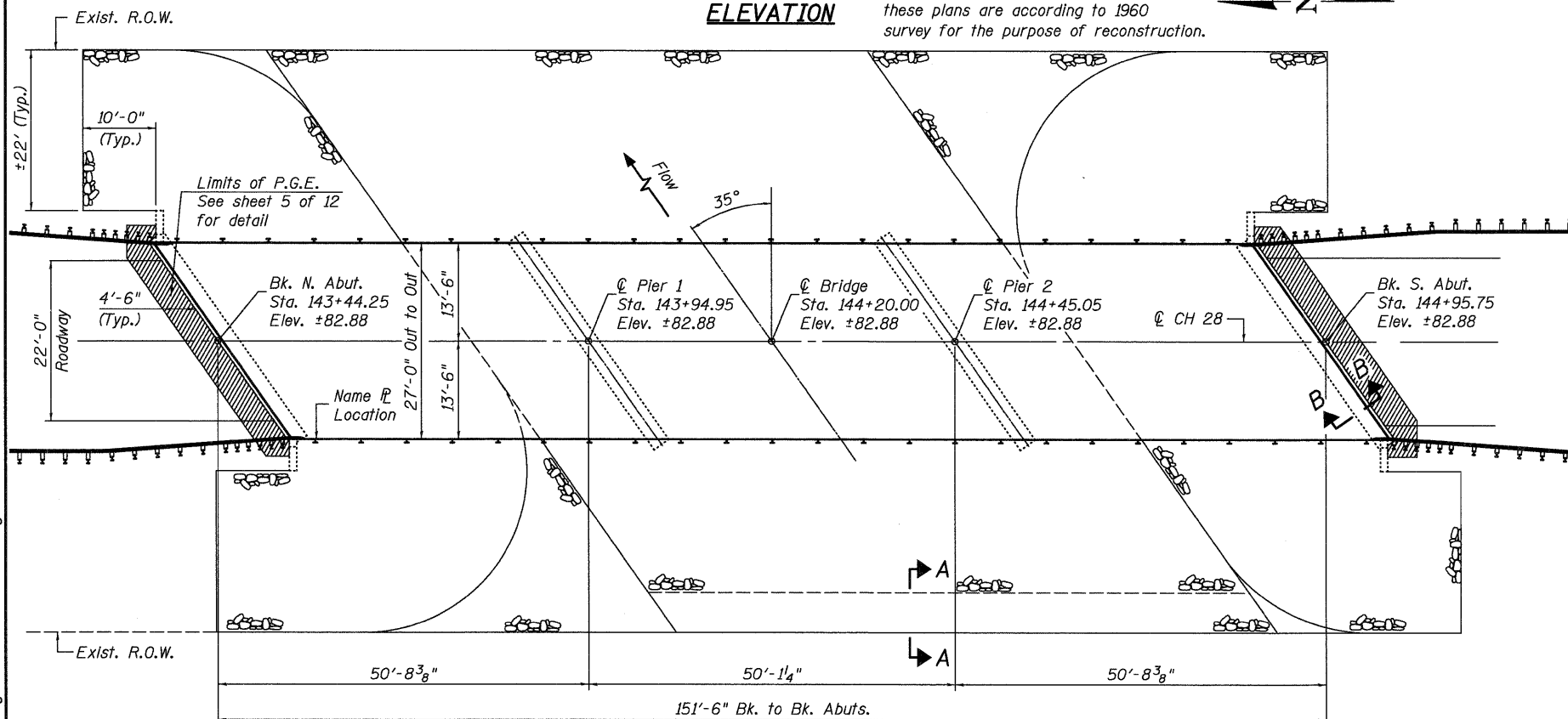
Signed: [Signature] Dated: 5-12-09

GENERAL PLAN AND ELEVATION
PAWNEE ROAD (FAS 1622)
OVER BRUSH CREEK

EXISTING WATERWAY INFORMATION

Drainage Area = 42.7 Sq. Miles
Present Opening (15yr) = 950 Sq. Ft.
Design High Water Elev. (15yr) = 78.3

PLAN



BRUSH CREEK
REBUILT 2009 BY
SANGAMON COUNTY
SEC. 07-00100-00-BR
F.A.S. RT. 1642 STA. 144+20
STR. NO. 084-3037 LOADING HL93

NAME PLATE
See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

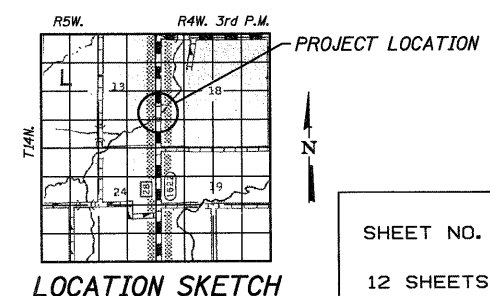


Table with 2 columns: Role, Name. Includes DESIGNED - CMV, CHECKED - SDS, DRAWN - DLH, CHECKED - CMV.

WHKS & CO. ENGINEERING logo and address: 7018 KINGSMILL CT., SPRINGFIELD, IL (217) 483-9457 DESIGN FIRM #184001036

Table with 5 columns: SHEET NO., F.A. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Includes SHEET NO. 1, F.A. RTE. 1622, SECTION 07-00100-00-BR, COUNTY SANGAMON, TOTAL SHEETS 16, SHEET NO. 5.

Operator: dneberling Date: 5/11/2009 Filename: L:\Jobs\Sangamon_County\6919\Drawings\Structure\SN084-3037.dgn