

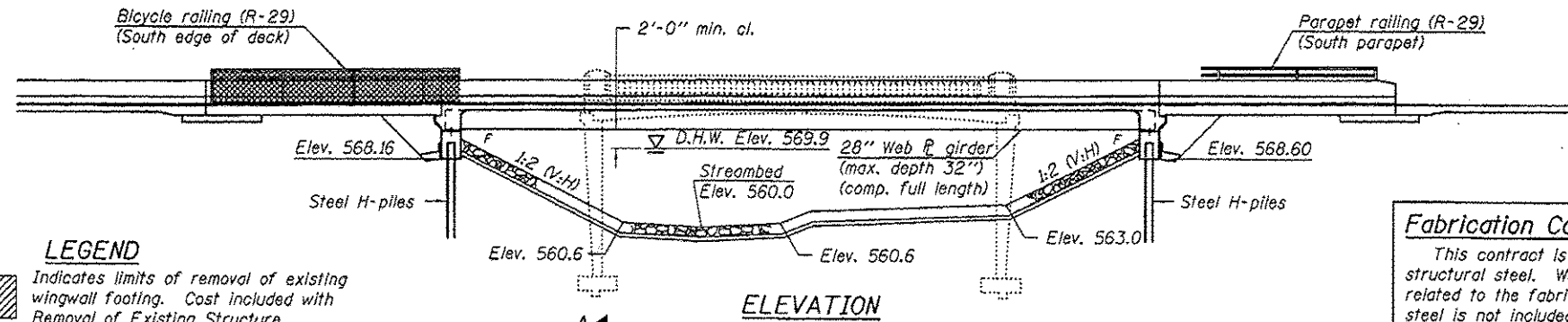
Benchmark: U.S.G.S. datum "a" cut in the center and top of South headwall of concrete culvert Sta. 387+50, Rt. 30'-8", Elev. 569.31.

Existing structure: Structure no. 081-0061, built in 1937 as F.A. Rte. 138, Section 40B, Station 325+35, as a single span 54'-8" back-to-back abutment, 47'-4" out-to-out reinforced concrete haunched slab and rigid frame. The existing structure is to be replaced with a single span bridge on integral abutments. Traffic is to be maintained utilizing stage construction.

No salvage.

INDEX OF SHEETS

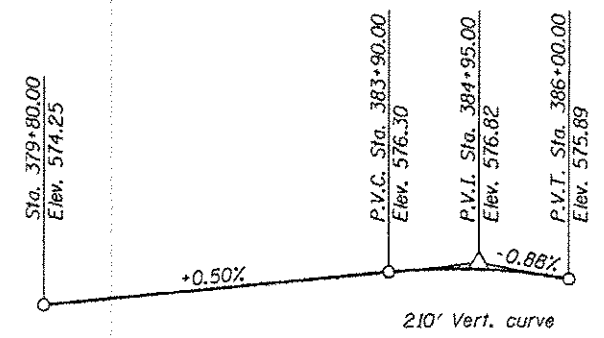
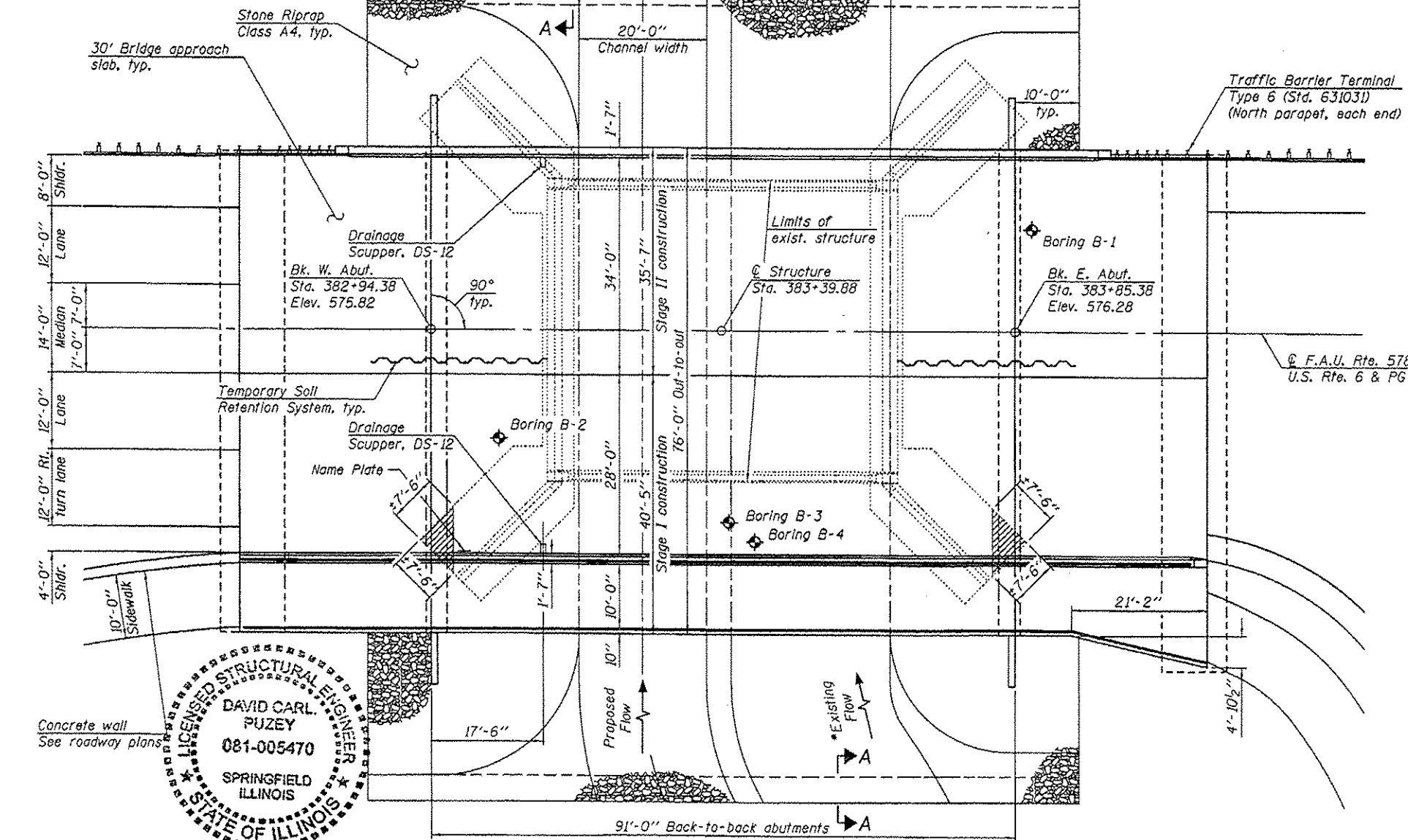
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Fabrication Contract:
This contract is for the furnishing of structural steel. Work shown that is not related to the fabrication of the structural steel is not included in this contract (N.I.C.) and is for information only.

LEGEND
Indicates limits of removal of existing wingwall footing. Cost included with Removal of Existing Structure.

Existing buried gas line



DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications, 5th Edition, with 2010 Interims

DESIGN STRESSES

FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (M270 Grade 50W)

LOADING HL-93

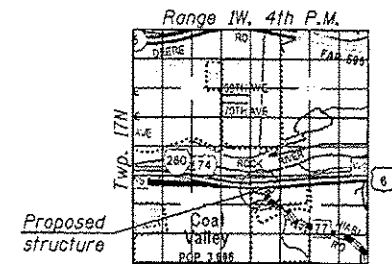
Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S₀₁) = 0.06g
Design Spectral Acceleration at 0.2 sec. (S₀₅) = 0.10g
Soil Site Class = C

STATION 383+39.88
BUILT 20 BY
STATE OF ILLINOIS
F.A.U. RTE. 5789 SEC. 40 BR
LOADING HL-93
STRUCTURE NO. 081-0163

NAME PLATE
See Std. 515001



GENERAL PLAN & ELEVATION
U.S. RTE. 6 OVER SHAFFER CREEK
F.A.U. RTE 5789 - SEC. 40 BR-F
ROCK ISLAND COUNTY
STATION 383+39.88
STRUCTURE NO. 081-0163

DESIGNED - <i>Stephan M. Ryan</i>	EXAMINED - <i>Jon F. Jolly</i>	DATE - 11/20/12
CHECKED - <i>Paul A. Hauch</i>	PASSED - <i>David Carl Puze</i>	
DRAWN - <i>H.T. Duong</i>		
CHECKED - <i>SMR/NRB/GPA</i>		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 081-0163		5789	40 BR-F	ROCK ISLAND	15	3
SHEET NO. 1 OF 13 SHEETS		CONTRACT NO. 64J44				
ILLINOIS FED. AID PROJECT						