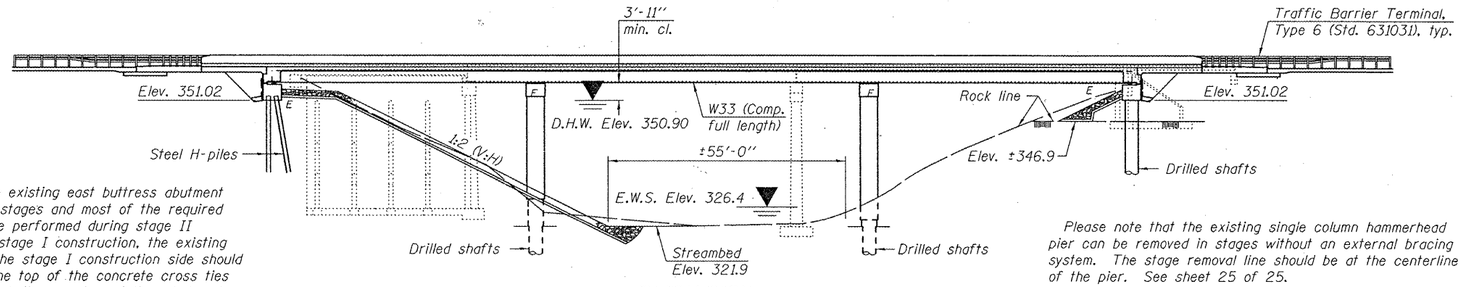
Bench Mark: B.M. M-11 located at the NW abutment of Struct. No. 076-0002. Elev. 358.894 NAVD

Existing structure: Structure No. 076-0002, built in 1925 as SBI Route 34 Section 6BC. 150 ft span truss on reinforced concrete closed abutments. In 1975, truss was replaced with 2 span PPC deck beams and a single column hammerhead pier was constructed. Out to out bridge width is 33'-0" and back to back bridge length is 149'-6". East approach span 39'-11"; West approach span 25'-11". Structure is to be completely replaced. One lane of traffic is to be maintained using stage construction.

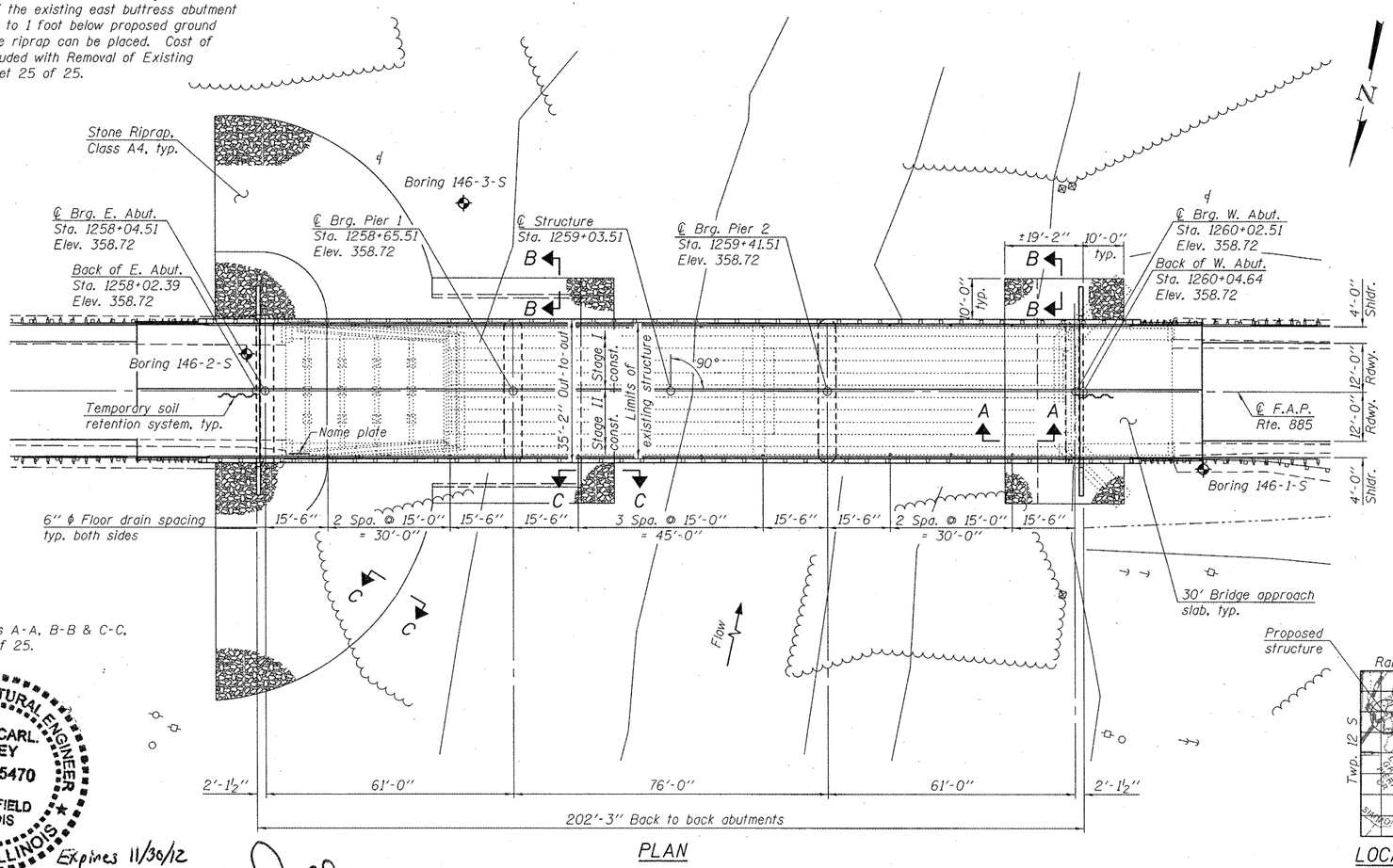
Salvage: None



ELEVATION

Please note that the existing east buttress abutment cannot be removed in stages and most of the required removal will need to be performed during stage II construction. During stage I construction, the existing soil and concrete on the stage I construction side should be removed down to the top of the concrete cross ties and the new structure built over the existing abutment. During stage II construction, both sides (stage I side and stage II side) of the existing east buttress abutment will be removed down to 1 foot below proposed ground elevation and then the riprap can be placed. Cost of concrete removal included with Removal of Existing Structures. See sheet 25 of 25.

Please note that the existing single column hammerhead pier can be removed in stages without an external bracing system. The stage removal line should be at the centerline of the pier. See sheet 25 of 25.



PLAN

Note: For Sections A-A, B-B & C-C, see sheet 2 of 25.

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD
ILLINOIS
STATE OF ILLINOIS
Expires 11/30/12

INDEX OF SHEETS

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications, 5th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50W)

LOADING HL-93

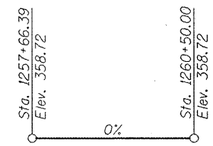
Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

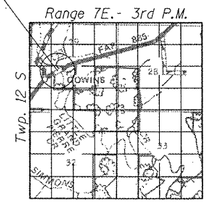
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.272
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.749
Soil Site Class = C

STATION 1259+03.51
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 885 SEC. 6B-2
LOADING HL93
STRUCTURE NO. 076-0031

NAME PLATE
See Std. 515001



PROFILE GRADE
(Along ℄ F.A.P. Rte. 885)



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
IL ROUTE 146 OVER
BIG GRAND PIERRE CREEK
F.A.P. RT. 885 - SEC. 6B-2
POPE COUNTY
STATION 1259+03.51
STRUCTURE NO. 076-0031

DESIGNED	Nicholas R. Barnett	EXAMINED	Thomas J. Domagalski, ENGINEER OF BRIDGE DESIGN
CHECKED	Michael D Robell	PASSED	ENGINEER OF BRIDGES AND STRUCTURES
DRAWN	h.t. duong	DATE	3-20-12
CHECKED	NRB/MDR	REVISED	
		REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 076-0031
SHEET NO. 1 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	6B-2	POPE	51	18
		CONTRACT NO. 78168		
		ILLINOIS FED. AID PROJECT		