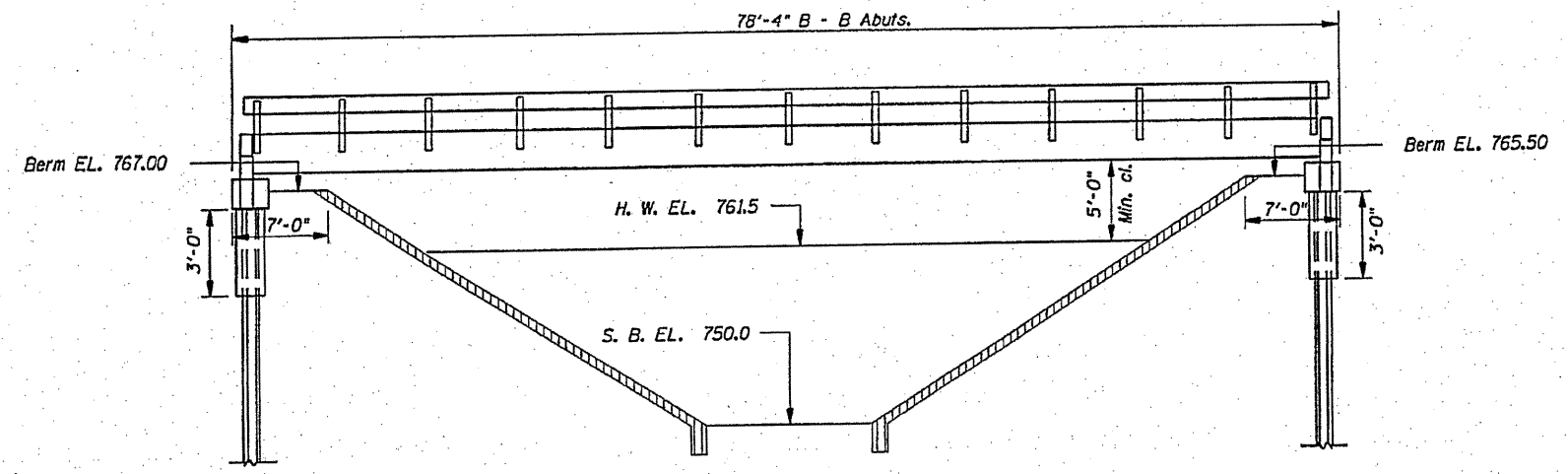
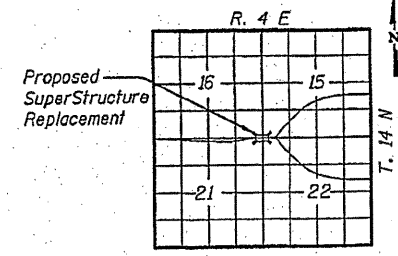


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 5	10-00150-00-BR	HENRY	6	3
STA.		TO STA.		
F.H.W.A. REG.		ILLINOIS PROJECT		

Benchmark
Existing Structure - Single span, precast, prestressed concrete deck beam superstructure, on open concrete abutments on steel "H" piles. No superstructure salvage. Substructure to remain.



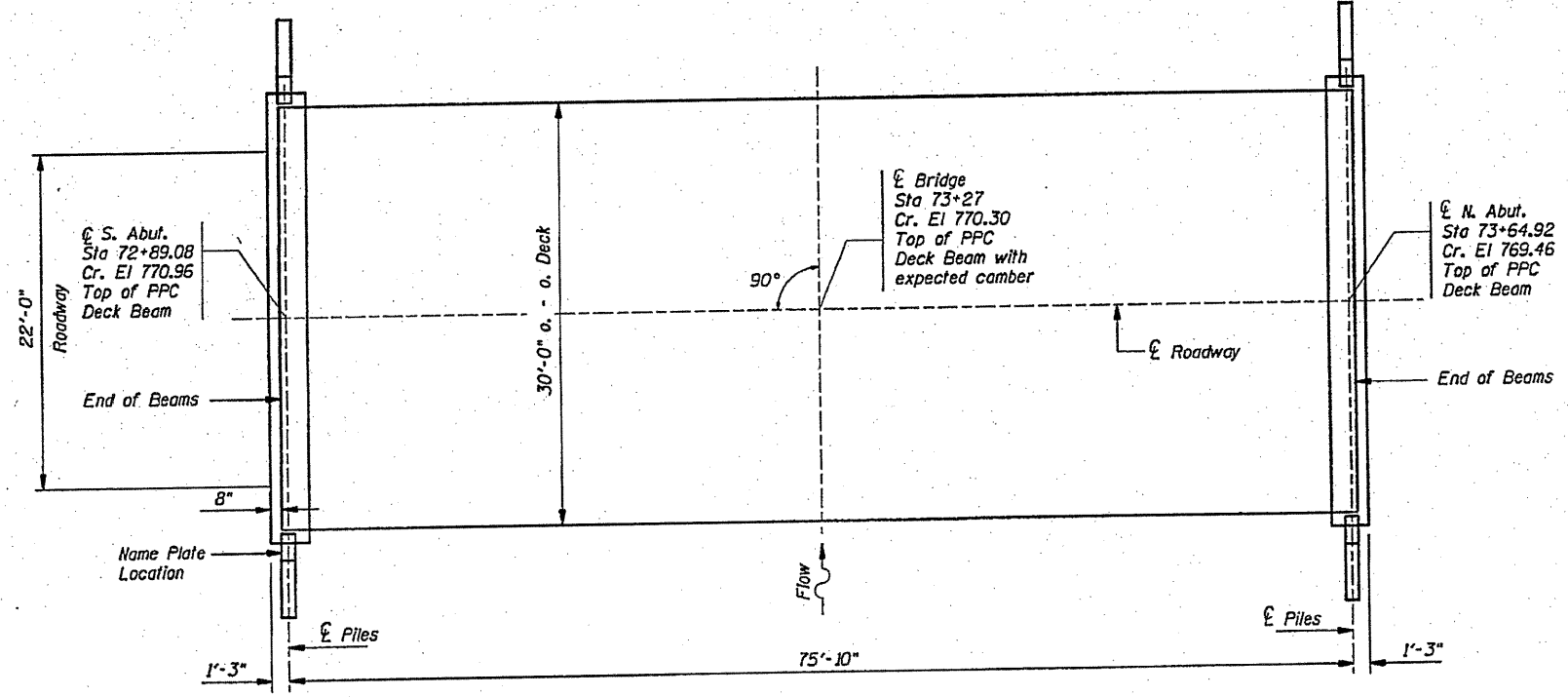
STATION 73+27
SOUTH EDWARDS RIVER BRIDGE
SEC. 10-00150-00-BR
SUPERSTRUCTURE REBUILT 2010
HENRY COUNTY
LOADING HL-93
STR. NO. 037-3228
NAME PLATE
See Std. 515001



LOCATION SKETCH

DATE	BY	REVISION

DATE	BY	REVISION



DESIGN SPECIFICATIONS
2007 AASHTO LRFD and applicable Interims
DESIGN LOADING - SUPERSTRUCTURE
HL-93 and Allowance for
25 P.S.F. Future Wearing Surface

DESIGN STRESSES
 $f_c' = 3,500$ psi (Concrete)
 $f_y = 60,000$ psi (Reinforcement)

NOTE:
BITUMINOUS OVERLAY
BY OTHERS

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Removal of Existing Superstructure	Each	1		1
Steel Bridge Rail Type SM	Foot	154		154
Name Plates	Each		1	1
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	2310		2310
Waterproofing Membrane System	Sq. Yd.	257		257

"This superstructure has been designed to be stable for scour conditions in accordance with the FHWA Technical Advisory - T-5140.23, "Evaluating Scour at Bridges" and Hydraulic Engineering Circular 18 - Evaluating Scour at Bridges.

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO Standard Specifications for Highway Bridges".



Keith E. Brandau 8/4/10
Date
KEITH E. BRANDAU
Illinois Licensed Structural Engineer Number 4905
License Expires 11/30/10

GENERAL PLAN & ELEVATION
SECTION: 10-00150-00-BR
HENRY COUNTY
STATION 73+27

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