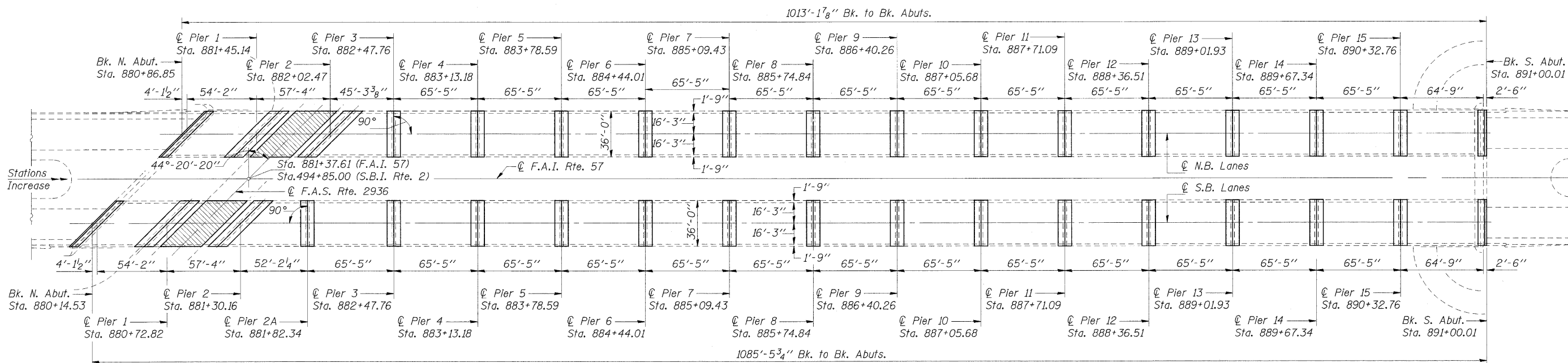


ELEVATION



PLAN

TOTAL BILL OF MATERIAL

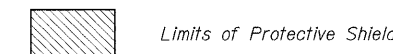
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	493.3
Concrete Superstructure	Cu. Yd.	548.0
Bridge Deck Grooving	Sq. Yd.	6865
Bar Splicers	Each	596
Reinforcement Bars, Epoxy Coated	Pound	106580
Preformed Joint Strip Seal	Foot	1293
Bridge Deck Microsilica Concrete Overlay 2 1/2"	Sq. Yd.	6526
Bridge Deck Hydro-Scarification 1/2"	Sq. Yd.	6526
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1.4
Protective Coat	Sq. Yd.	7704
HMA Surface Removal (Deck)	Sq. Yd.	7515
Protective Shield	Sq. Yd.	392

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. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
 Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.  
 Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.  
 The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

DESIGN STRESSES

NEW CONSTRUCTION  
 Field Units  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 ORIGINAL CONSTRUCTION  
 Field Units  
 $f'_c = 1,400$  psi (super & sub)  
 $f'_s = 20,000$  psi (reinforcement)  
 $vc = 75$  psi  
 $n = 10$   
 Precast Prestressed Units  
 $f'_c = 5,000$  psi  
 $f_{ci} = 4,000$  psi  
 $f'_s = 248,000$  psi ( $7/16"$  stress relieved strands)  
 $f_{si} = 173,600$  psi ( $1/16"$  stress relieved strands)

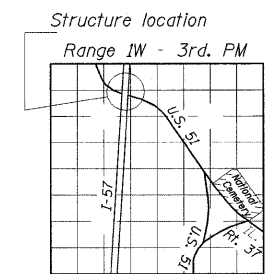


SCOPE OF WORK

1. Remove existing HMA overlay.
2. Hydroscarify deck 1/2".
3. Perform full depth patching.
4. Remove and replace expansion joints at both abutments and all piers.
5. Apply 2 1/2" microsilica overlay and protective coat.



Expires 11/30/2010



LOCATION SKETCH

GENERAL PLAN  
 SECTION D9 BSMART 2010-2  
 F.A.I. RTE. 57 OVER F.A.S. 2936  
 PULASKI COUNTY  
 STRUCTURE NO. 077-0001 (N.B.)  
 STRUCTURE NO. 077-0002 (S.B.)