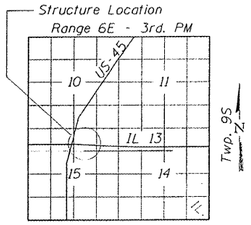
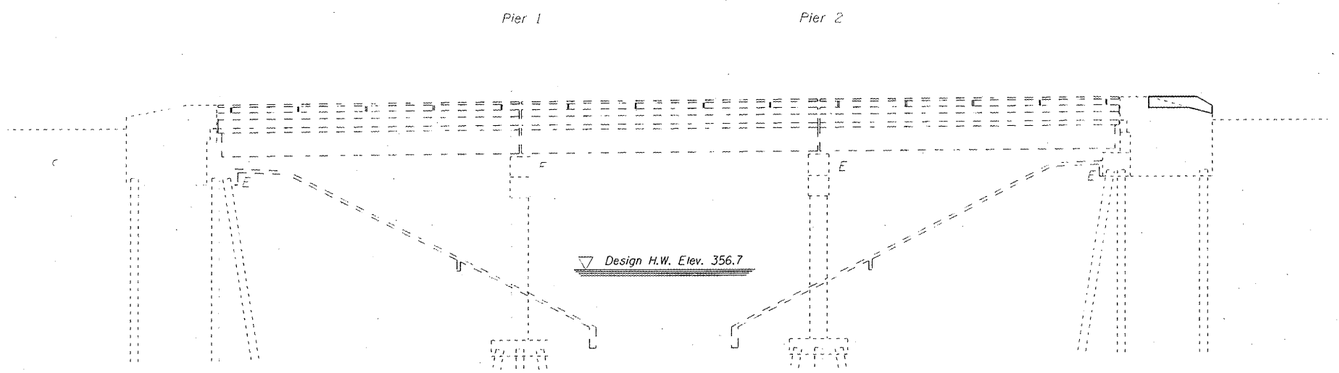
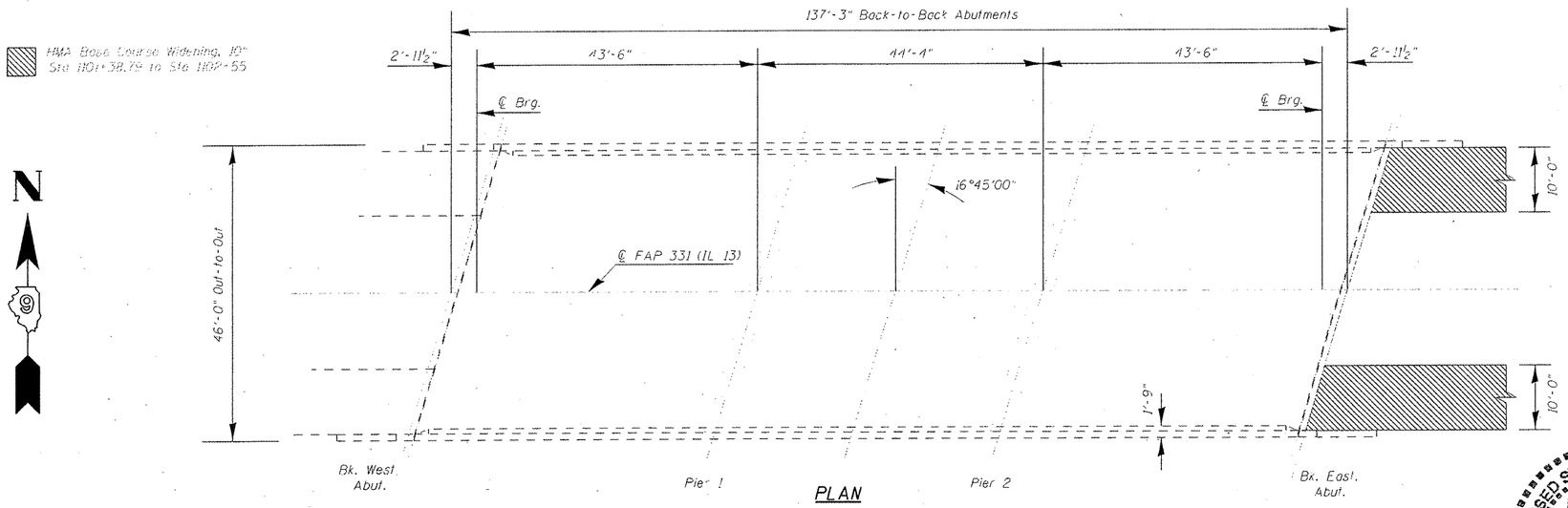


LOCATION SKETCH



ELEVATION



PLAN

SCOPE OF WORK

1. Scarify Bridge Deck $^3/_4$"
2. Perform full depth deck slab repair.
3. Place polymer concrete and silicone joint sealer.
4. Apply $2^1/_4$" microsilica overlay.

DESIGN STRESSES

ORIGINAL CONSTRUCTION
FIELD UNITS

f_c = 1,200 psi (Deck Slab)
f_c = 1,400 psi (Curb, Parapet, Sub)
f_s = 20,000 psi (Reinf. & Struct.)
v_c = 75 psi (Ftgs) n = 10
f'_c = 5,000 psi
f_{ci} = 4,000 psi
f'_s = 248,000 psi (Strands)
f_{si} = 173,600 psi (Strands)
Loading HS 20-44

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANITY
Concrete Superstructure	Cu Yd	0.5
Bridge Deck Grooving	Sq Yd	604
Reinforcement Bars, Epoxy Coated	Pound	70
Concrete Removal	Cu Yd	0.1
Bridge Deck Microsilica Concrete Overlay $2^1/_4$"	Sq Yd	631
Bridge Deck Scarification $^3/_4$"	Sq Yd	631
Silicone Joint Sealer	Foot	94
Polymer Concrete	Cu Ft	7.7
Deck Slab Repair (Full Depth, Type II)	Sq Yd	5.3
Plug Existing Deck Drains	Each	24
Floor Drain Extensions	Each	18

GENERAL NOTES

Plan dimensions and details relative to the existing plans are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new 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.

Joint openings shall be adjusted according to article 520.04 of the standard specs. when the deck is poured at an ambient temperature other than 50°F.

Reinforcement bars designated (E) shall be epoxy coated.

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD
ILLINOIS
STATE OF ILLINOIS

D. Carl Puzey 1/25/12
Expires 11/30/12

FILE NAME : c:\pw_work\pwidot\lavende-be\d0253199\D-0044bsmart-sht-plan.dgn	USER NAME : #USER#	DESIGNED AMA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION SN 083-0044	F.A.P. RTE. 331	SECTION D9 CM BRIDGE REP 2012-2	COUNTY SALINE	TOTAL SHEETS 12 / SHEET NO. 6
	PLOT SCALE : 100.0000 ' / in.	DRAWN	REVISED -					CONTRACT NO. 78246	
	PLOT DATE : 12/16/2011	CHECKED JJL	REVISED -		SCALE: / SHEET NO. OF SHEETS / STA. TO STA.			ILLINOIS FED. AID PROJECT	
		DATE	REVISED -						