

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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.

Prior to pouring the new concrete deck section, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

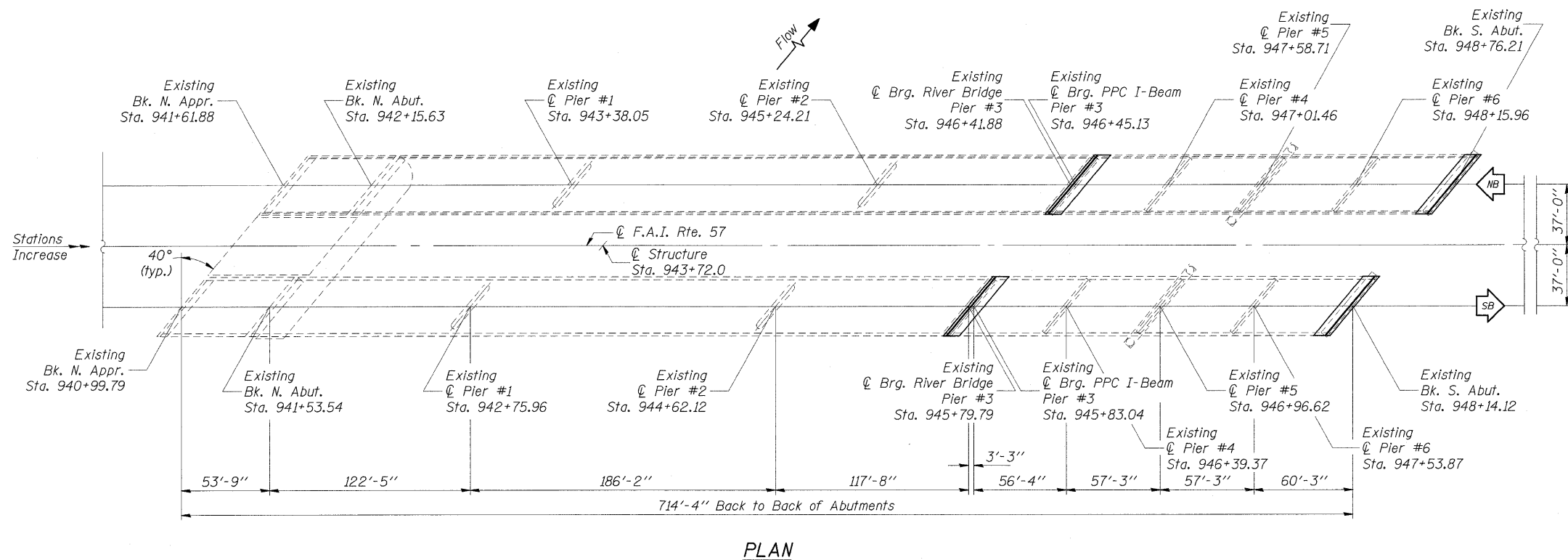
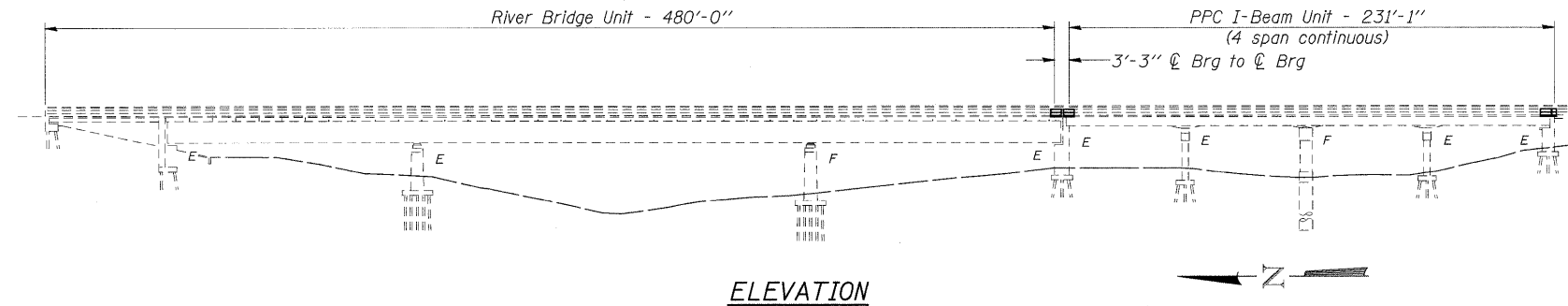
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall 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.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

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.



TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	47.1
Concrete Superstructures	Cu. Yd.	52.1
Bridge Deck Grooving	Sq. Yd.	4782
Bar Splicers	Each	42
Reinforcement Bars, Epoxy Coated	Pound	8230
Plug Existing Deck Drains	Each	80
Preformed Joint Strip Seal	Foot	180
Floor Drain Extension	Each	72
Bridge Deck Microsilica Concrete Overlay 2 1/2"	Sq. Yd.	5037
Bridge Deck Hydro-Scarification 1/2"	Sq. Yd.	5037
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1.4
Protective Coat	Sq. Yd.	5141
HMA Surface Removal (Deck)	Sq. Yd.	5121

SCOPE OF WORK

1. Remove existing HMA overlay.
2. Hydroscore deck 1/2".
3. Perform full depth patching.
4. Remove and replace expansion joints at south abutment and pier 3.
5. Apply 2 1/2" microsilica overlay and protective coat.

DESIGN STRESSES

NEW CONSTRUCTION

Field Units

$f_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

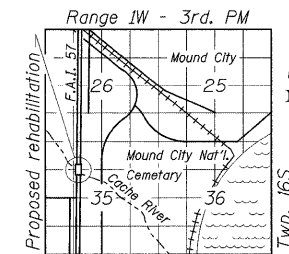
ORIGINAL CONSTRUCTION

Field Units

$f_c = 1,400$ psi (super & sub)
 $f_s = 20,000$ psi (reinforcement)
 $f_s = 20,000$ psi (structural steel)
 $vc = 75$ psi
 $n = 10$

Precast Prestressed Units

$f_c = 5,000$ psi
 $f_{cl} = 4,000$ psi
 $f_s = 248,000$ psi (1/16" stress relieved strands)
 $f_{sl} = 173,600$ psi (1/16" stress relieved strands)



GENERAL PLAN
F.A.I. ROUTE 57 OVER CACHE RIVER
SECTION D9 BSMART 2010-1
ALEXANDER COUNTY
STRUCTURE NO. 002-0003 (N.B.)
STRUCTURE NO. 002-0004 (S.B.)

FILE NAME =	USER NAME = cornellm	DESIGNED - TWH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND ELEVATION SN 002-0003 & 002-0004	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
2-0001.0002-sht-plan.dgn		DRAWN - TWH	REVISED -			57	D9 BSMART 2010-1	ALEXANDER	25	9	
PLOT SCALE = 16,0000' / IN.		CHECKED - MAS	REVISED -			CONTRACT NO. 78173					
PLOT DATE = 2/18/2010		DATE - 11/18/09	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					