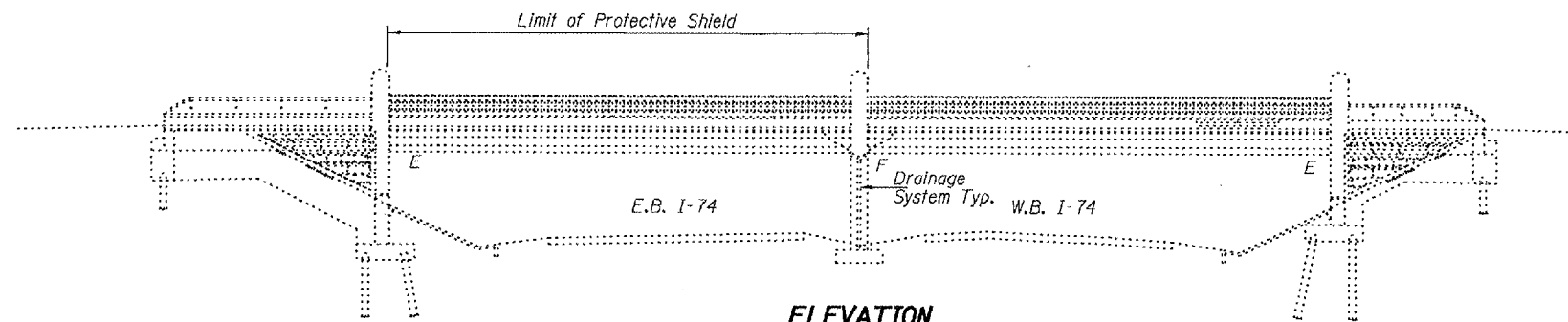


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	PAGE	SHEET NO. 1
			14	6	11 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #68492



**ELEVATION**

**GENERAL NOTES**

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing & Erecting PPC I-Beams, 1372 mm.

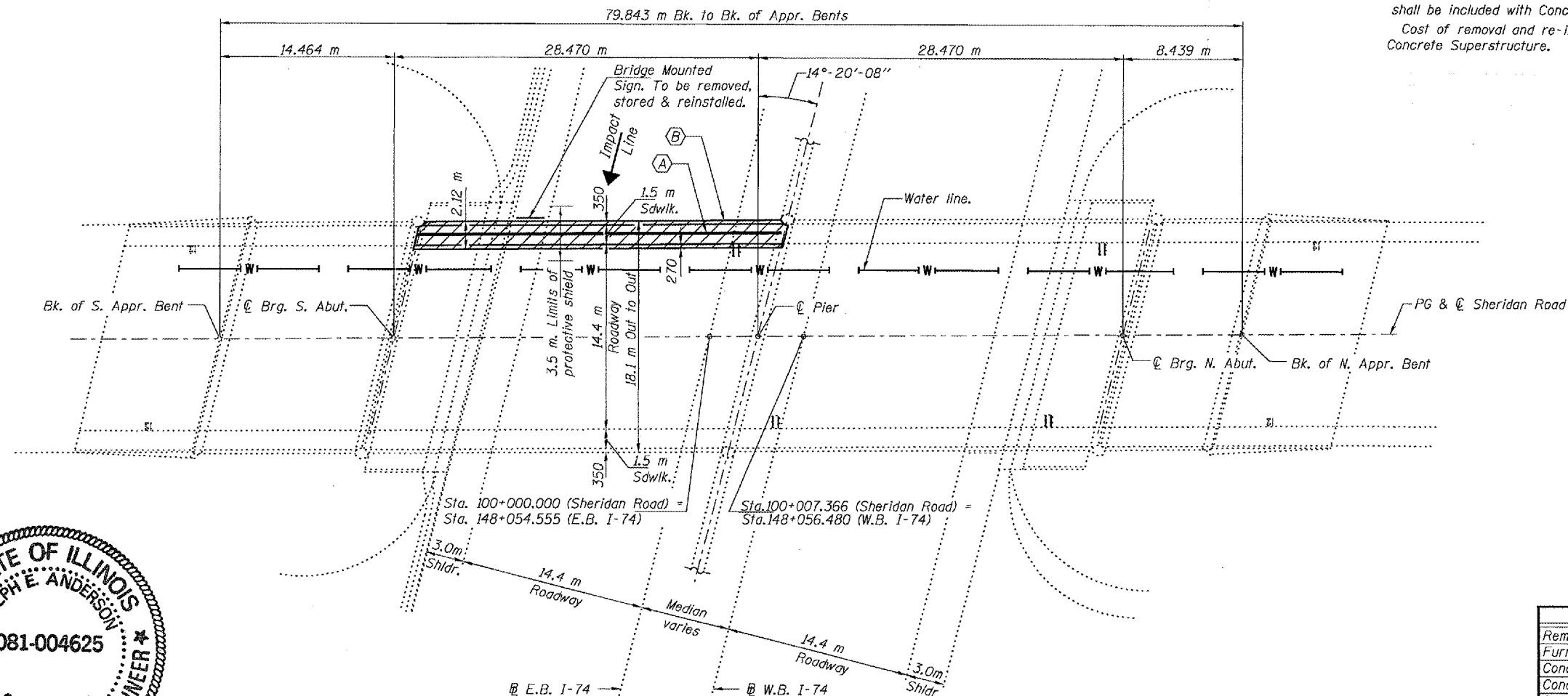
All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing & Erecting PPC I-Beams, 1372 mm.

Reinforcement bars shall conform to the requirements of AASHTO M 31M, or M 322M Grade 400.

All dimensions are in millimeters (mm) except as noted.

Existing reinforcement 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 shall be included with Concrete Removal.

Cost of removal and re-installation of pedestrian fence is included with Concrete Superstructure.



**PLAN**

- (A) 1.372 m PPC I-beam to be removed & replaced.
- (B) Concrete removal & replacement.

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 24 \text{ MPa}$   
 $f_y = 400 \text{ MPa (Reinf.)}$   
 $f_y = 250 \text{ MPa (Struct.) (M270 Gr 250)}$

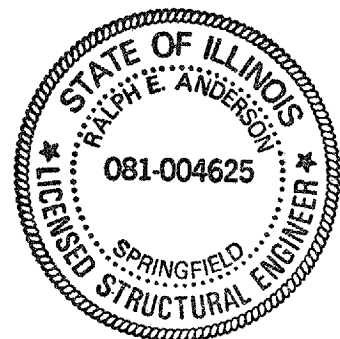
**PRECAST PRESTRESSED UNITS**

$f'_c = 42 \text{ MPa}$   
 $f'_c = 35 \text{ MPa}$   
 $f'_s = 1,860 \text{ MPa (12.7 mm } \phi \text{ low lax. strands)}$   
 $f_{s1} = 1,395 \text{ MPa (12.7 mm } \phi \text{ low lax. strands)}$

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Removal of Existing Concrete I-Beam	Each	1
Furnishing & Erecting PPC I-Beams, 1372 mm.	m	28.6
Concrete Removal	m <sup>3</sup>	35.5
Concrete Superstructure	m <sup>3</sup>	35.5
Protective Coat	m <sup>2</sup>	87
Protective Shield	m <sup>2</sup>	100
Mechanical Splicers	Each	292
Reinforcement Bars, Epoxy Coated	Kg	3300

**GENERAL PLAN AND ELEVATION**  
**SHERIDAN ROAD OVER**  
**FAI ROUTE 74 (I-74)**  
**PEORIA COUNTY**  
**SN 072-0193**



EXPIRES 11-30-2006

DESIGNED	Dominic Baliva
CHECKED	John A. Morris
DRAWN	baliva
CHECKED	NAR/S.T.B.

May 10, 2005  
 EXAMINED John A. Morris  
 ENGINEER OF STRUCTURAL SERVICES  
 PASSED Ralph E. Anderson  
 ENGINEER OF BRIDGES AND STRUCTURES