



**STRUCTURE INDEX OF SHEETS**

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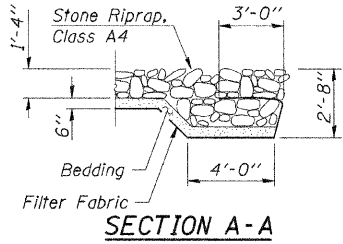
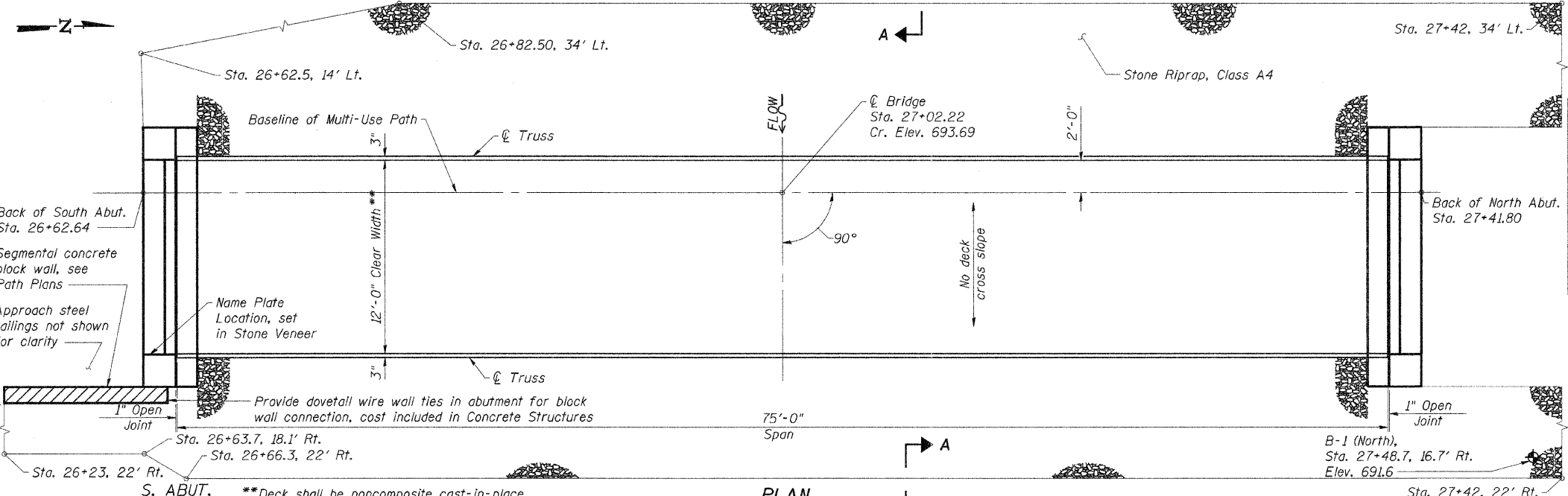
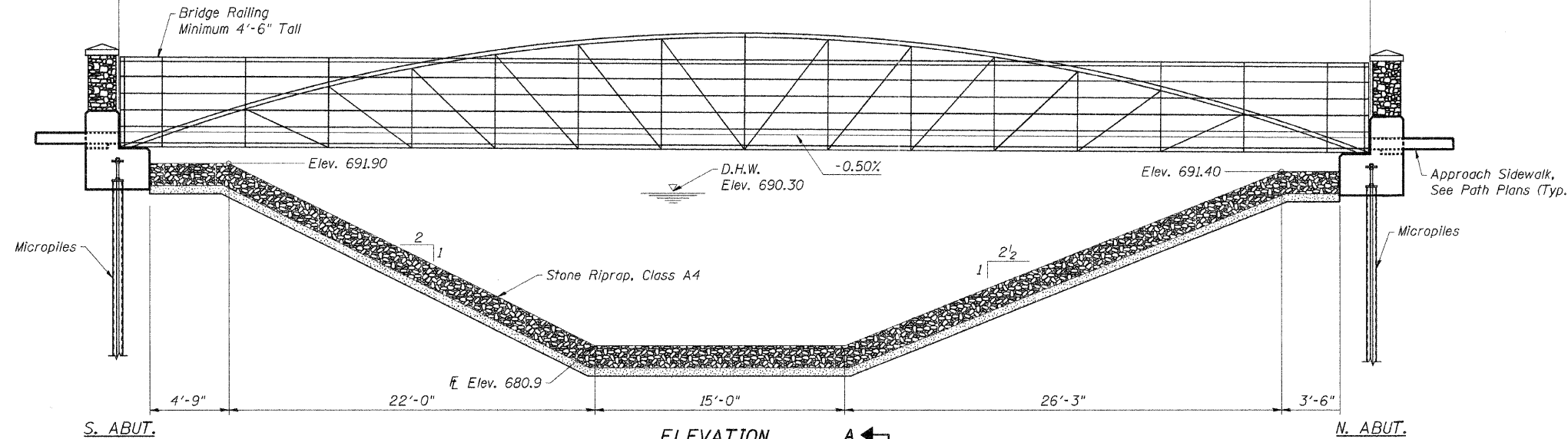
**GENERAL NOTES**

- Superstructure shall be a bowstring truss and have a poured concrete deck. Manufacturer to be approved by the Engineer. See Special Provisions.
- The Organic Zinc Rich Primer/Epoxy/Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners, and damaged areas shall be touched up in the field. The color of the final finish coat shall be black. Cost included in Pedestrian Truss Superstructure. See Special Provisions for "Cleaning and Painting New Metal Structures."
- Micropiles are used in abutment plans due to proximity of existing power lines. See Special Provisions.
- Contractor shall consider the overhead power line in addressing all aspects of the project including erection of superstructure and pouring of deck. Crane use is limited. Contractor shall visit the site prior to bidding.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- Protective coat shall be applied to the concrete deck in accordance with Section 503 in the Standard Specifications.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	-	505	505
Filter Fabric	Sq. Yd.	-	505	505
Structure Excavation	Cu. Yd.	-	21	21
Concrete Structures	Cu. Yd.	-	13.6	13.6
Limestone Masonry Veneer	Sq. Ft.	-	105	105
Protective Coat	Sq. Yd.	100	-	100
Reinforcement Bars, Epoxy Coated	Pound	-	1650	1650
Pedestrian Truss Superstructure	Sq. Ft.	900	-	900
Name Plates	Each	-	1	1
Micropiles	Each	-	6	6

Station 26+64.64 I.F. to I.F. Backwalls 75'-2" Station 27+39.80



EXPIRES 11-30-12  
 Richard D. Payne  
 SIGNATURE  
 1/21/11  
 DATE

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

**GENERAL PLAN**  
**MULTI USE PATH OVER**  
**SALT FORK TRIBUTARY DITCH**  
**SECTION 05-00416-00-BT**  
**CITY OF URBANA**

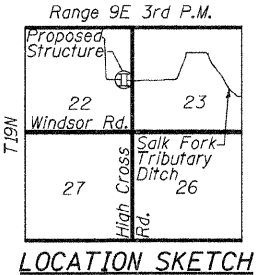
**WATERWAY INFORMATION**

Total Drainage Area = 2.80 Sq. Mi. Low Grade Elevation: 689.90 ft. @ Sta. 29+29.97

Flood	Frequency Year	Q-CFS	Opening - ft <sup>2</sup>		Nat. H.W.E.	Head - ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	960	NA	250	690.24	NA	0.06	NA	690.30
Base	100	1280	NA	300	691.08	NA	0.11	NA	691.19
Overtopping*	500	1760	NA	376	692.19	NA	0.24	NA	692.43

\*Headwater must overtop channel sides before low grade elevation of bikepath is overtopped. Backwater from adjacent downstream bridge will overtop low grade elevation of bikepath during a 25 year flood

**LOADING H-10**  
 Or 85 psf pedestrian load  
**DESIGN SPECIFICATIONS**  
 2002 AASHTO Standard Specifications for Highway Bridges & 1997 AASHTO Guide Specifications for Design of Pedestrian Bridges  
**DESIGN STRESSES**  
**FIELD UNITS**  
 f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)



SALT FORK TRIBUTARY DITCH  
 BUILT 20\_\_ BY  
 CITY OF URBANA  
 SEC. 05-00416-00-BT  
 LOADING 85 PSF OR H-10 TRUCK

**NAME PLATE**  
 See Std. 515001

FILE NAME = 102800_S_01_HYB.dgn	USER NAME = RJT	DESIGNED - RDP 10/10	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN	F.A.P. RTE. = 05-00416-00-BT	COUNTY = CHAMPAIGN	TOTAL SHEETS = 3	SHEET NO. = 1	
PLOT SCALE = 8 1/2" / 1"	DRAWN - KAH 01/11	CHECKED - RDP 01/11	REVISIONS -			SHEET NO. 1 OF 3 SHEETS				
PLOT DATE = 1/24/2011	10:28:28 AM	CHECKED - RDP 01/11	REVISIONS -			CONTRACT NO. _____				
						ILLINOIS FED. AID PROJECT AID				