

ROUTE NO.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
STEVENS CREEK BIKEWAY	S9-P4000-00-BP	DECATUR PARK DIST	145	37
FED. ROAD DIST. NO.			ILLINOIS PROJECT TE-0007(27)	

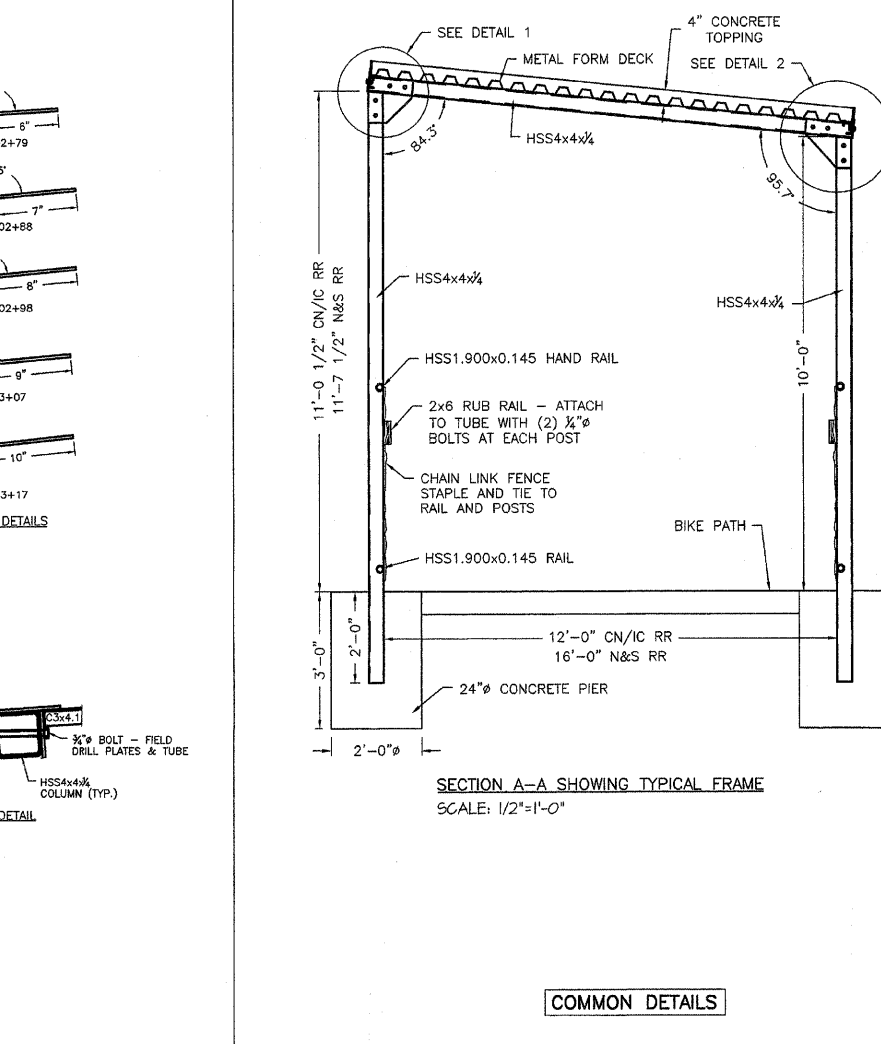
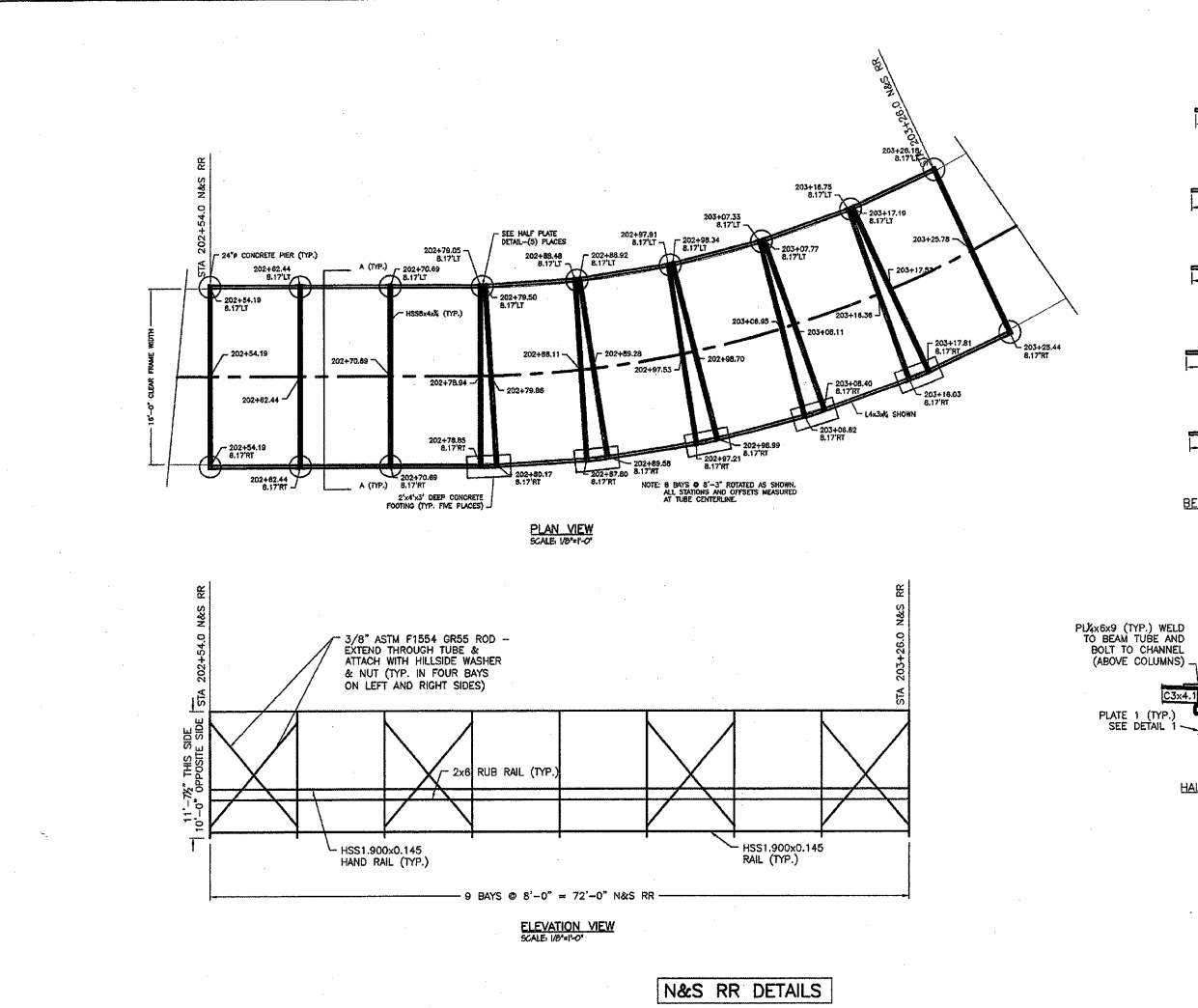
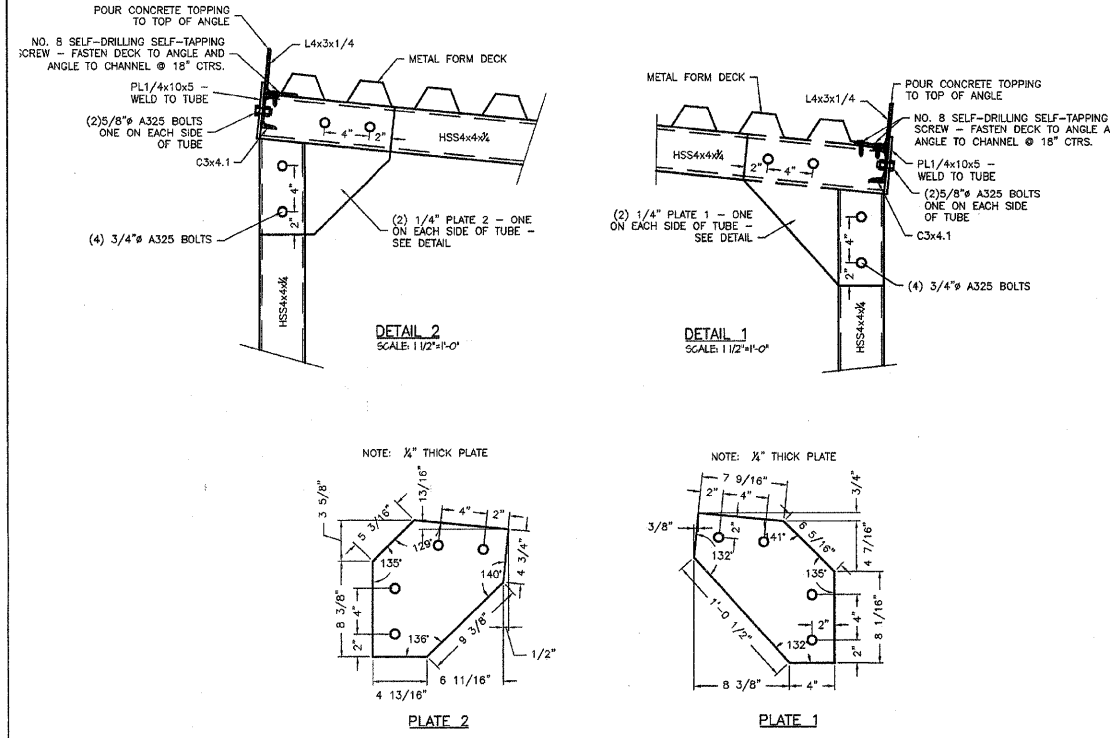
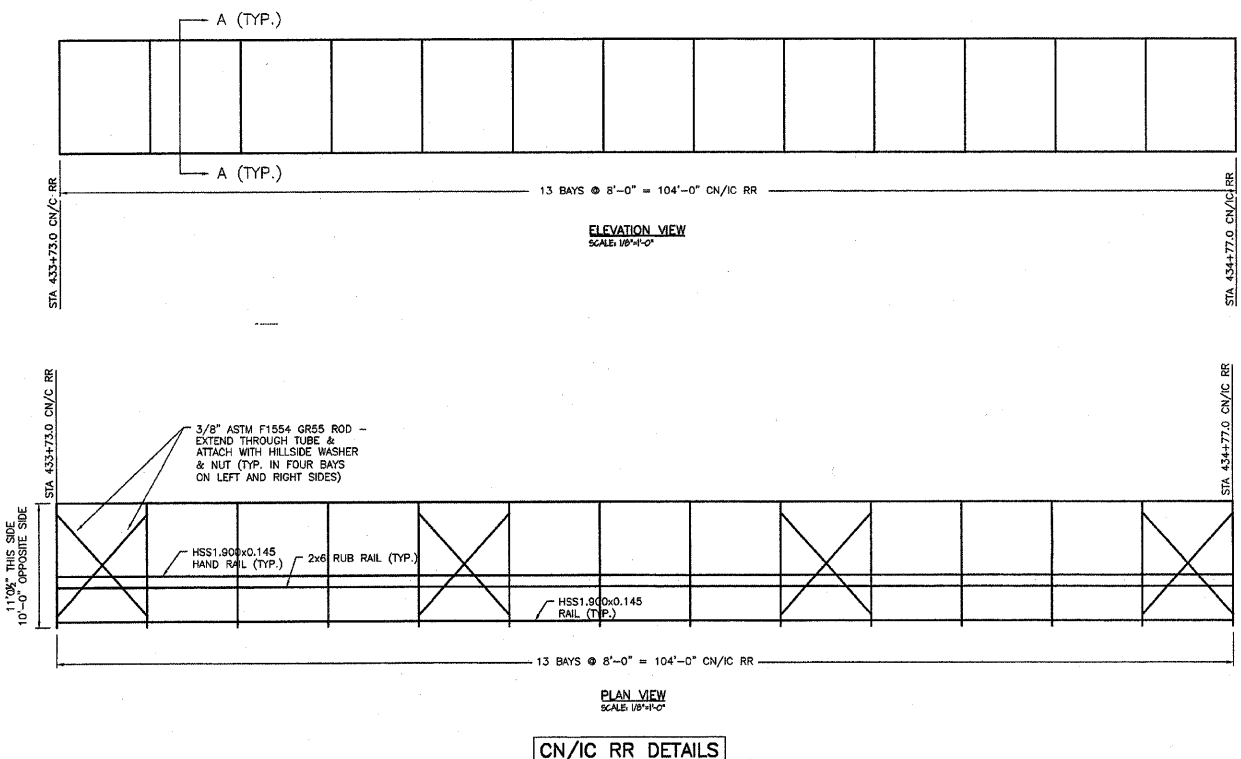
BAINBRIDGE & ASSOCIATES, INC.
 Consulting Engineers
GEORGE MILLAWSKI
 1070 SOUTH TAYLORVILLE ROAD
 DECATUR, ILLINOIS 62521
 Phone: (618) 281-1400
 Fax: (618) 281-1401

NO.	BY	DATE

DECATUR PARK DISTRICT
 STEVENS CREEK BIKEWAY - PHASE I
 COVERED DECK STRUCTURE BENEATH RAIL ROAD
 DETAILS

ENGINEERS, INC.
 300 S. WASHINGTON ST., 2ND FL.
 DECATUR, ILLINOIS 62521
 (618) 281-1400 • FAX (618) 281-1401
 PROFESSIONAL ENGINEER REG. NO. 184-00118

ERRELL L. SHAFFER
 ILLINOIS STRUCTURAL ENGINEER NO. 04-4445
 LICENSE EXPIRES 11/30/2010



NOTES:
 STRUCTURAL STEEL:
 1. ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
 2. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1-86).
 3. MATERIALS:
 A. STRUCTURAL SHAPES AND PLATES UNLESS NOTED: ASTM A36
 B. HSS (TUBES): ASTM A-500 GRADE B.
 C. FIELD BOLTS: ASTM A325, 3/4-INCH DIAMETER UNLESS OTHERWISE NOTED.
 D. ANCHOR BOLTS AND THREADED RODS: ASTM F1554 GRADE 55, SIZES AND EMBEDMENT AS INDICATED ON THE DRAWINGS.
 E. FIELD WELDS: AWS E70xx, LOW HYDROGEN ELECTRODES.
 4. METAL FORM DECK SHALL BE UNITED STEEL DECK, INC. UP2X 24GA FORM DECK.
 5. MINIMUM LENGTH OF METAL FORM DECK SHEETING SHALL BE 24 FEET.
 6. SPOT WELD METAL FORM DECK TO TUBE FRAME AT 18" CTRS.
 7. OVERLAP DECKING AT LEAST FOUR (4) INCHES AT EACH SPLICE.
 8. ALL FASTENERS, STRUCTURAL STEEL AND DECKING SHALL BE GALVANIZED. GALVANIZING SHALL BE DONE IN ACCORDANCE WITH ASTM A123, ASTM A924 OR ASTM A153.
 CONCRETE:
 1. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3,500 PSI AT 28 DAYS. THE SLUMP OF THE CONCRETE WHEN PLACED SHALL NOT EXCEED 5 INCHES. THE CONCRETE MIXTURE SHALL CONTAIN NOT LESS THAN 5 1/2 BAGS OF CEMENT.
 2. PLACEMENT OF CONCRETE AND REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE AMERICAN CONCRETE INSTITUTE.
 3. SCORE CONCRETE SLAB TO A DEPTH OF ONE (1) INCH OVER EACH FRAME. SEAL SCORE CRACK WITH A QUALITY POLYURETHANE JOINT SEALER.

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 for the current AASHTO Standard Specifications for Highway Bridges.

Errell L. Shaffer
 ERRELL L. SHAFFER
 ILLINOIS STRUCTURAL ENGINEER NO. 04-4445
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