

**CURVE DATA**

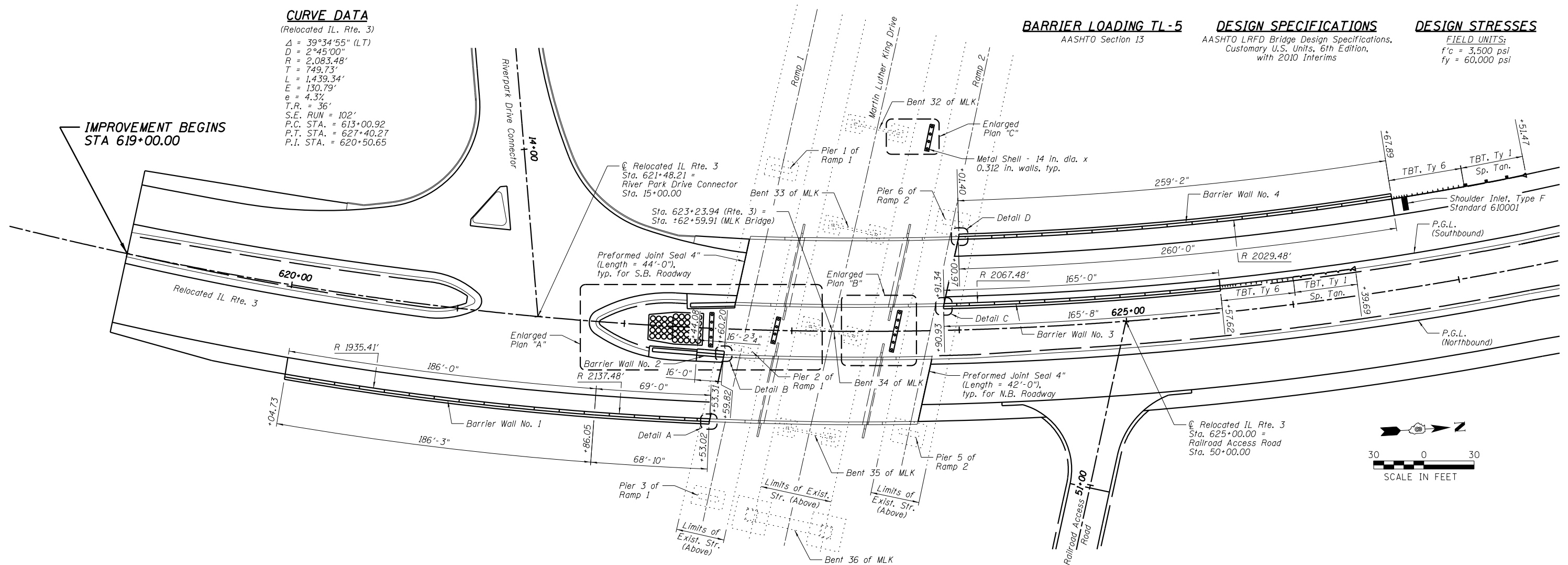
(Relocated IL Rte. 3)  
 $\Delta = 39^\circ 34' 55''$  (LT)  
 $D = 2^\circ 45' 00''$   
 $R = 2,083.48'$   
 $T = 749.73'$   
 $L = 1,439.34'$   
 $E = 130.79'$   
 $e = 4.3\%$   
 $T.R. = 36'$   
 $S.E. RUN = 102'$   
 $P.C. STA. = 613+00.92$   
 $P.T. STA. = 627+40.27$   
 $P.I. STA. = 620+50.65$

IMPROVEMENT BEGINS  
 STA 619+00.00

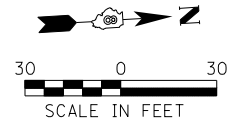
**BARRIER LOADING TL-5**  
 AASHTO Section 13

**DESIGN SPECIFICATIONS**  
 AASHTO LRFD Bridge Design Specifications,  
 Customary U.S. Units, 6th Edition,  
 with 2010 Interims

**DESIGN STRESSES**  
 FIELD UNITS:  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi

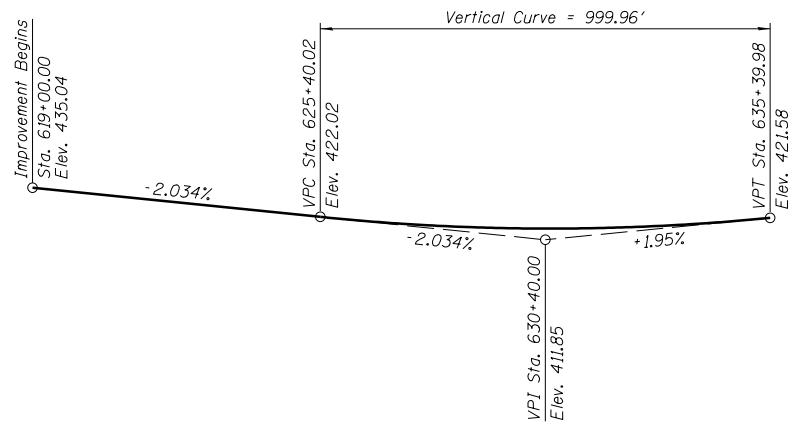


**PLAN**



**INDEX OF SHEETS**

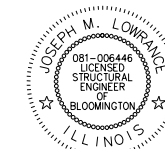
SHEET NO.	TITLE
P1	PIER PROTECTION LAYOUT
P2	ENLARGED PLAN VIEWS AND PILE DETAILS
P3	BARRIER WALL NO. 1
P4	BARRIER WALL NO. 2
P5	BARRIER WALL NO. 3
P6	BARRIER WALL NO. 4



**PROFILE GRADE**  
 (Along  $\phi$  P.G.L.)

**TOTAL BILL OF MATERIAL**

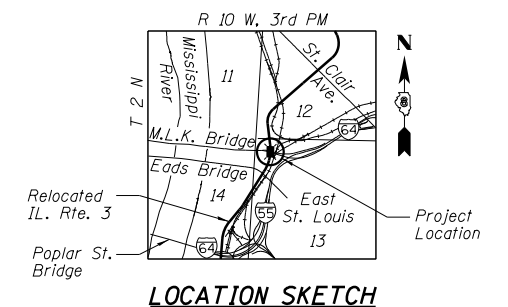
ITEM	UNIT	TOTAL
Concrete Structures	Cu. Yd.	18.0
Concrete Superstructure	Cu. Yd.	495.3
Protective Coat	Sq. Yd.	1010
Reinforcement Bars, Epoxy Coated	Pound	88,510
Furnishing Metal Shell Piles 14" x 0.312"	Foot	684
Driving Piles	Foot	608
Preformed Joint Seal 4"	Foot	172
Impact Attenuators (Fully Redirective, Narrow), Test Level 3	Each	2
Impact Attenuators (Non-Redirective), Test Level 3	Each	41
Attenuator Base	Sq. Yd.	65
Construction Vibration Monitoring	L Sum	1



Date \_\_\_\_\_  
 JOSEPH M. LOWRANCE  
 ILLINOIS STRUCTURAL ENGINEER  
 NO. 081-006446  
 Exp. Date 11/30/14

**GENERAL NOTES:**

- 1.) Reinforcement bars designated (E) shall be epoxy coated.
- 2.) Slipforming of parapets is not allowed.
- 3.) See Sheet P2 for Enlarged Plans.
- 4.) See Sheets P3-P6 for Barrier Wall No. 1 thru No 4 and Details A thru D.
- 5.) See Special Provision for Construction Vibration Monitoring.
- 6.) See Bridge Plans (Contract 76F69) for installation requirements of the Preformed Joint Seal 4".



**LOCATION SKETCH**



DESIGNED - JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM	REVISED
CHECKED - MSW	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PIER PROTECTION LAYOUT

SHEET NO. P1 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2	ST. CLAIR	142	77

CONTRACT NO. 76850

ILLINOIS FED. AID PROJECT