

Benchmark: Cut square on northwest corner of sign foundation at north side of Harrison Street, approximately 80' west of west line of Morgan Street. Elevation 593.07.
 Cut square on east wall of Morgan Street at approximately centerline of I-290, near north entrance to CTA. Elevation 600.63.

Existing Structure: S.N. 016-2113 was originally constructed in 1951 as a three-span structure carrying 4 lanes of traffic over I-290 Eisenhower Expressway and CTA (FA Route 13). Sections 1-B-2 and 1-F-2). Improvements were performed on the superstructure and substructure in 1990. The bridge has an overall length of approximately 213'-10" (back-to-back abutments; 67'-0" / 74'-10" / 67'-0" spans), an overall width of 60'-10" (out-to-out superstructure) and consists of a 6 1/2"-thick reinforced concrete deck with 2" overlay supported on ten (10) W33x220 steel I-beams. The substructure consists of reinforced concrete piers and abutments on timber piles. The bridge is oriented in the north-south direction with a skew of 4°41'00". This structure will be removed and replaced. Stage construction on the new bridge is required due to utility concerns; however, Morgan Street and the associated exit ramp will be closed to vehicular and pedestrian traffic during construction. Morgan Street traffic will be detoured via local roads during construction.
 Salvage: No salvage.

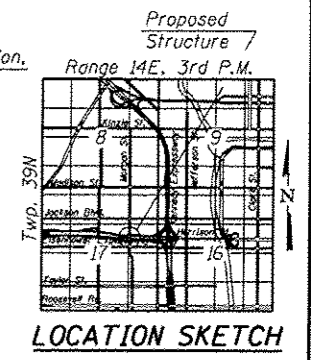
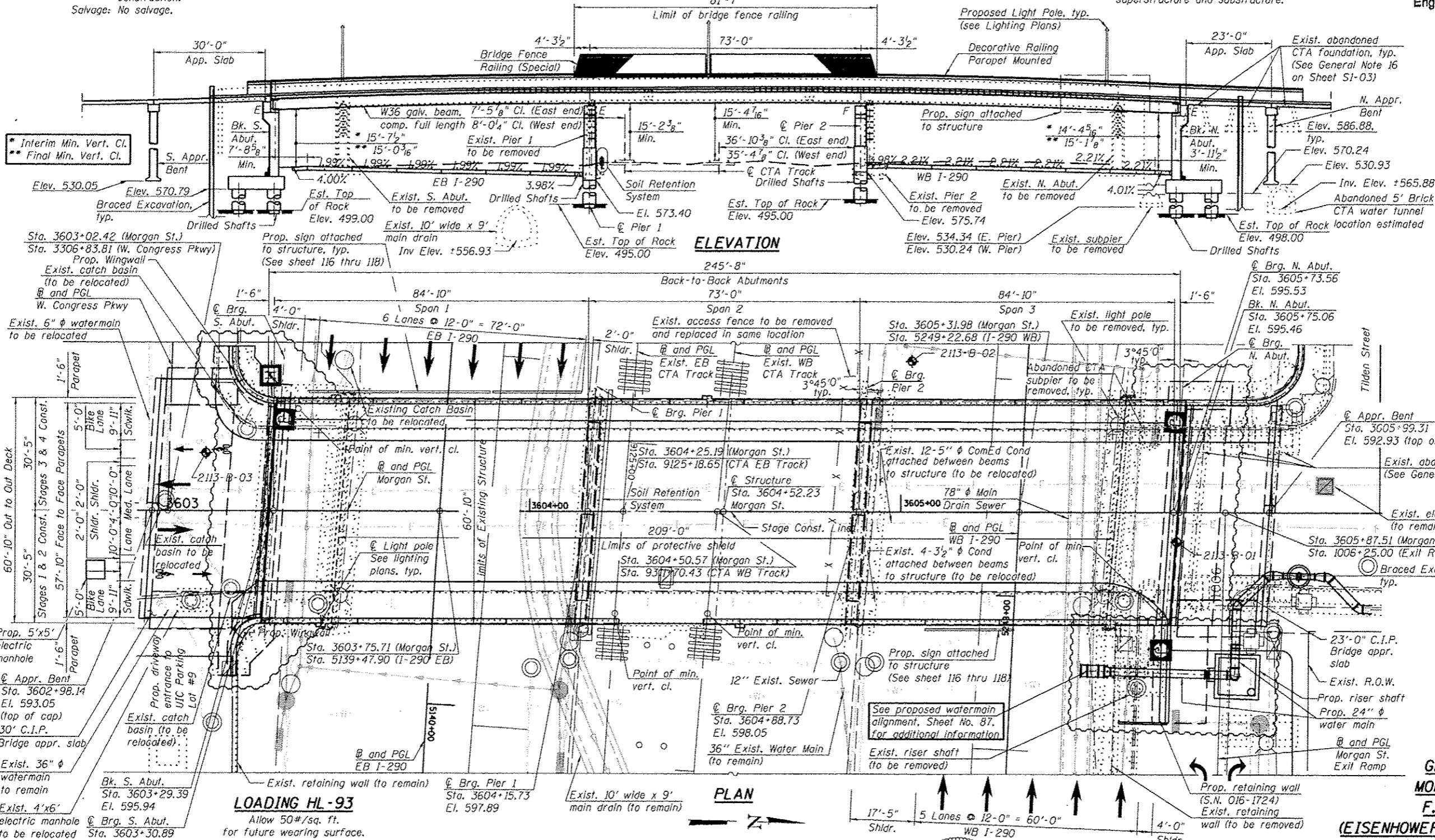
- NOTES:**
- For Profile Grade Lines, Index of Sheets and Total Bill of Material, see Sheet S1-02.
 - For General Notes, see Sheet S1-03.
 - Stage construction lines are different for superstructure and substructure.

APPROVED
 For Structural Adequacy Only
D. Carl Kuyper
 Engineer of Bridges & Structures

STA. 3604+52.23
 BUILT 20-- BY
 STATE OF ILLINOIS
 FAI RT. 290 SEC. 2013-007R
 LOADING HL-93
 STRUCTURE NO. 016-1709

NAME PLATE
 Locate Name Plate at the front face of parapet at the Southwest Corner.

- LEGEND:**
- Combined Sewer
 - Electric
 - Fiber Optic
 - Soil Boring
 - Storm Sewer
 - Water Line
 - Fire Hydrant
 - Light Pole



DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES
 FIELD STRESSES
 $f_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)
 $f_y = 36,000$ psi (M270 Grade 36)

SEISMIC DATA
 Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.086g
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.144g
 Soil Site Class = D

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

Signed *Moussa A. Issa*
 Moussa A. Issa, HBM IL Lic. No. 081-005738
 Expires 11-30-2014
 Date **07/19/13** For Sheets S1-01 Thru S1-51 (Total of 53 Sheets)

GENERAL PLAN AND ELEVATION
 STRUCTURE NO. 016-1709

GENERAL PLAN MORGAN ST. OVER F.A.I. RTE. 290 (EISENHOWER EXPRESSWAY) AND CTA F.A.I. RTE. 290 - SECTION 2013-007R COOK COUNTY STATION 3604+52.23 STRUCTURE NO. 016-1709

HBM
 ENGINEERING GROUP, LLC
 CIVIL, TRAC & DESIGN
 INSPECTION & TESTING
 RESEARCH & TESTING

161789-60425-581-GPE.dgn
 USER NAME: willardouss
 PLOT SCALE: 28x0 1/2" = 1' = 1/2"
 PLOT DATE: 7/22/2013

DESIGNED - MI, JJS	REVISIONS	07/19/2013 MI, MAF
DRAWN - JJS, WM, LAB	REVISIONS	
CHECKED - MAI, MI, LAB	REVISIONS	
DATE - 6/17/2013	REVISIONS	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	145
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				