

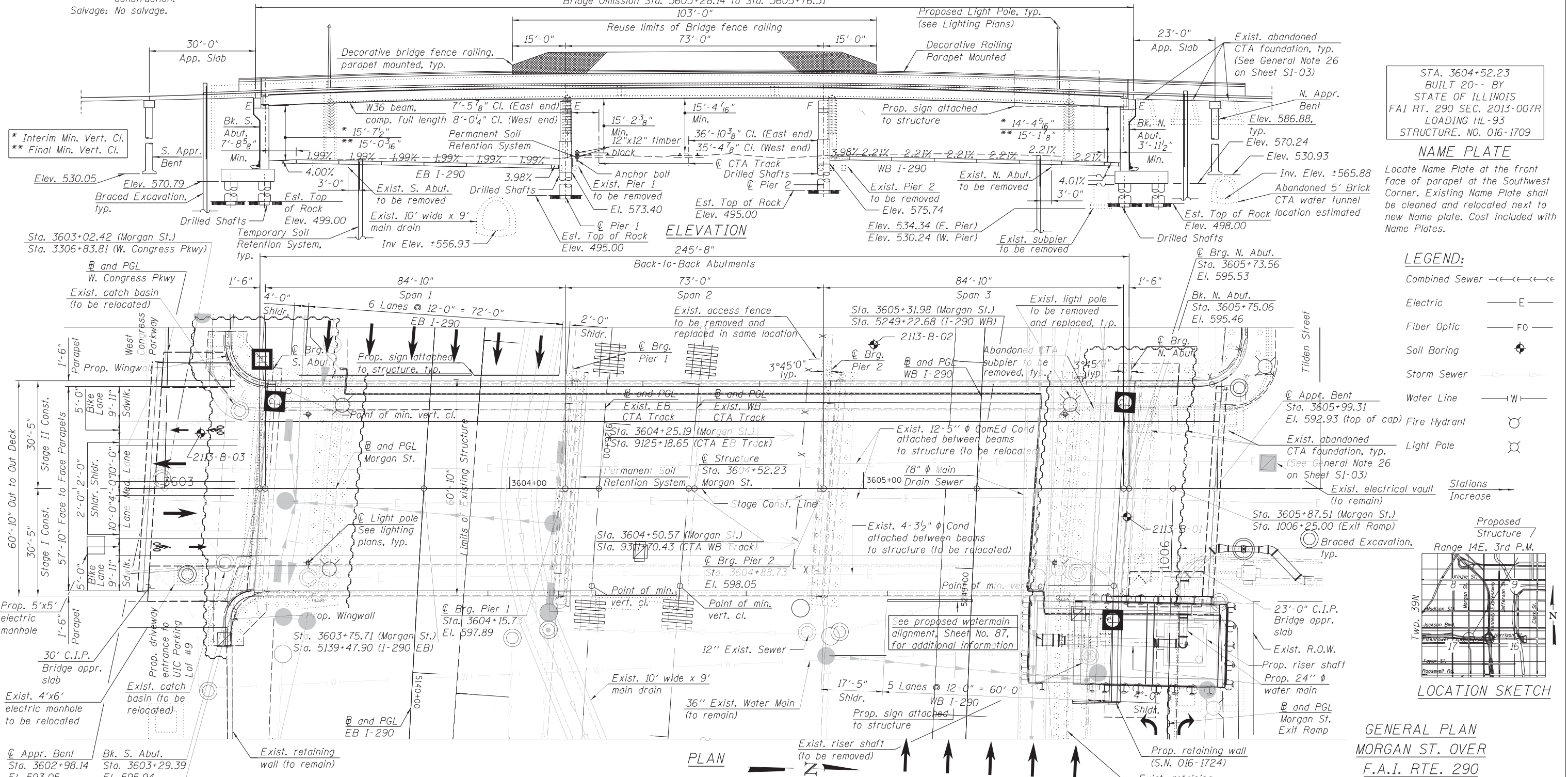
Benchmark: Cut square on northwest corner of sign foundation at north side of Harrison Street, approximately 80' west of west line of Morgan Street. Elevation 593.07.

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 131; 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:

1. For Profile Grade Lines, Index of Sheets and Total Bill of Material, see Sheet S1-02.
2. For General Notes, see Sheet S1-03.
3. Stage construction lines are different for superstructure and substructure.
4. For replacing/repairing Congress parkway, see Roadway plans for details and quantities.



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

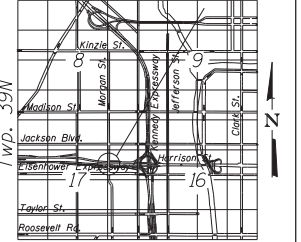
NAME PLATE

Locate Name Plate at the front face of parapet at the Southwest Corner. Existing Name Plate shall be cleaned and relocated next to new Name plate. Cost included with Name Plates.

LEGEND:

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

LOCATION SKETCH



**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

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge
Design Specifications, 6th Edition

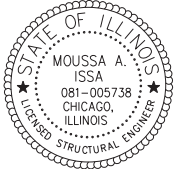
LOADING HL-93
Allow 50#/sq. ft.
for future wearing surface.

DESIGN STRESSES

FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (M270 Grade 50)

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



Signed **Moussa A. Issa**
Moussa A. Issa, HBM II. Lic. No. 081-005738
Expires 11-30-2014
Date 6/17/2013 For Sheets S1-01 Thru S1-51

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-1709**

SCALE: SHEET S1-01 OF 51 SHEETS STA. TO STA.

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

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DESIGNED - MI, JJS	REVISED -
DRAWN - JJS, WM, LAB	REVISED -
CHECKED - MAI, MI, LAB	REVISED -
DATE - 6/17/2013	REVISED -