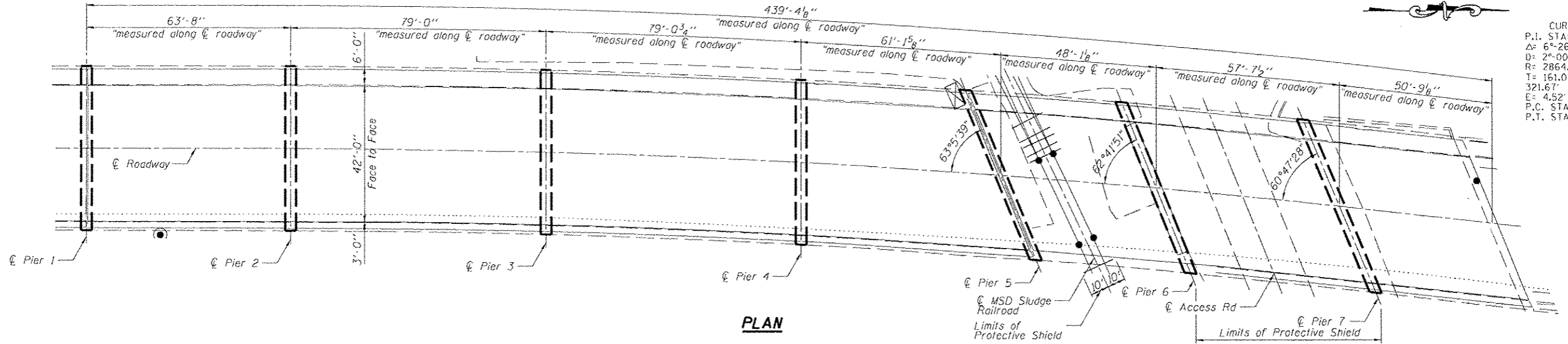


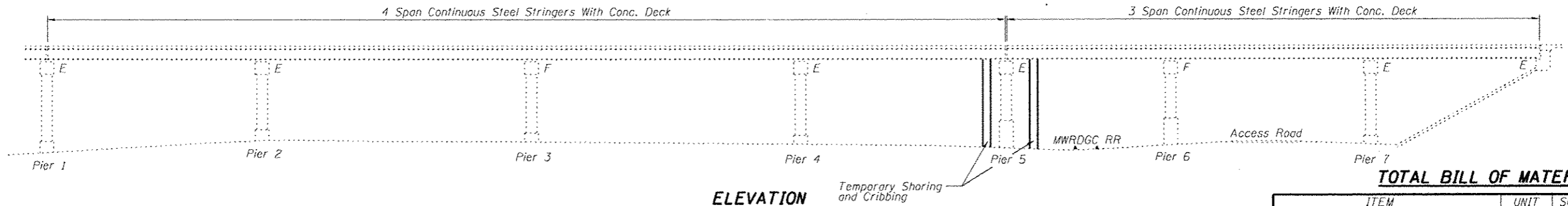
Existing Structure: SN. 016-0314 built in 1968, section 207-0708.3A-CF. Structure consists of 7 total spans. The structure is 439'-4 1/8" back-to-back of abutments, 51'-0" out-to-out. Staged construction will be utilized by maintaining two lanes of traffic during all stages. Structure is to be repaired.

In 1990 the structure was rehabilitated, consisting of placing a plasticized concrete overlay, replacing the transverse expansion joints, adding a steel bridge rail, concrete repairs on the deck and substructure and pointing selective bearings.



CURVE DATA  
P.I. STA= 104+14.56  
Δ= 6°-26'-00"  
D= 2°-00'-00"  
R= 2864.93'  
T= 161.01'  
321.67'  
E= 4.52'  
P.C. STA= 102+53.55  
P.T. STA= 105+75.22

PLAN



ELEVATION

**INDEX OF SHEETS**

1. General Plan and Elevation
2. General Plan and Elevation
3. Deck Repair
4. Pier 1 Repair
5. Pier 5 Repair
6. Pier 6 Repair
7. Expansion Joint Repair (North Abt.)
8. Expansion Joint Repair (Pier 5)
9. Expansion Joint Details
10. Bar Splicers
11. Preformed Joint Strip Seal
12. Temporary Barrier

**SCOPE OF WORK**

1. Repair deck slab.
2. Repair Substructure.
3. Replace abutment and pier joints with Preformed Joint Strip Seal.

**DESIGN SPECIFICATIONS**

(New Construction)  
2002 AASHTO "Standard Specifications for Highway Bridges", 17th Edition

**DESIGN STRESSES**

**FIELD UNITS (New Const.)**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

**FIELD UNITS (Existing)**

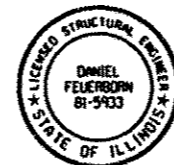
$f_c = 1,200$  psi (Superstructure & Substructure)  
 $f_s = 20,000$  psi (Reinforcement)  
 $f_s = 20,000$  psi (Structural Steel)

**LOADING HS 20**

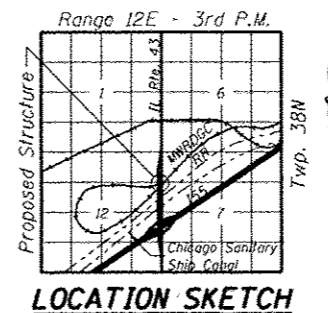
(Original Construction)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	16.6		16.6
Protective Shield	Sq. Yd.	320		320
Concrete Superstructure	Cu. Yd.	16.6		16.6
Reinforcement Bar, Epoxy Coated	Pound	2320		2320
Bar Splicers	Each	54		54
Preformed Joint Strip Seal	Foot	119		119
Structural Repair of Concrete "Depth < 5"	Sq. Ft.	1100	380	1480
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	25		25
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	20		20
Deck Slab Repair (Partial)	Sq. Yd.	250		250
Temporary Shoring and Cribbing	Each	8		8



*Daniel Feuerborn* 7/12/13  
Daniel Feuerborn Date  
License Expires 11-30-2014



LOCATION SKETCH

**GENERAL PLAN & ELEVATION**  
**IL ROUTE 43 OVER MWRDGC RAILROAD**  
**FAP ROUTE 348**  
**SECTION 0708.3A-BR(II)**  
**COOK COUNTY**  
**STATION 104+14**  
**STRUCTURE NO. 016-2412**

PRINTED DATE: 7/12/2013  
 FILE NAME: C:\Projects\1001145-13\_Harlem\_01r\_MWRDGC\_RR\CAD\2D\Sheet\2012\12-28-12-2817-281-01E.dwg



USER NAME : *USER*	DESIGNED - JEH	REVISIONS -
PLOT SCALE : 2,000 / 1"	CHECKED - DF	REVISIONS -
PLOT DATE : 7/12/2013	DRAWN - JEH	REVISIONS -
	CHECKED - DF	REVISIONS -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET NO 1 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	0708.3A-BR(II)	COOK	25	9
CONTRACT NO. 60T07				
ILLINOIS FED. AID PROJECT				