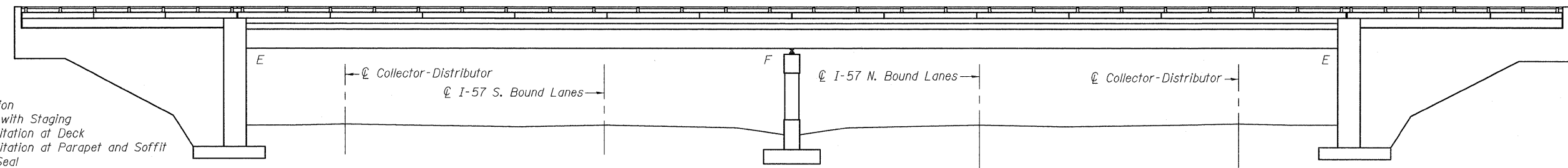


The existing structure was built in 1968. It is a two span continuous structure with steel beams. The substructure consists of PPC I-beams on vaulted abutments and reinforced column concrete piers. The rehabilitation work will be done utilizing stage construction.

The proposed improvements consist of removal of the existing HMA wearing surface, deck slab repairs, replacing the existing expansion joints, construction of a Hot-Mix Asphalt overlay, repair of the parapets, and repair of the substructure.

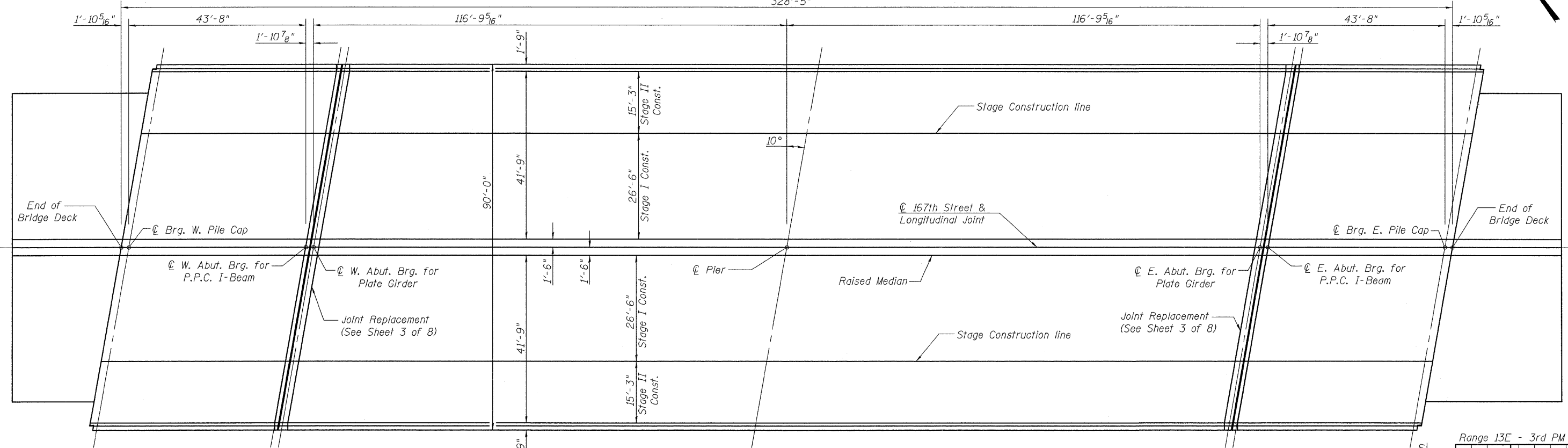
**INDEX OF SHEETS**

1. General Plan and Elevation
2. Typical Cross Sections with Staging
3. Expansion Joint Rehabilitation at Deck
4. Expansion Joint Rehabilitation at Parapet and Soffit
5. Prefomed Joint Strip Seal
6. Bar Splicer Assembly Details
7. Deck and Parapet Repair Plan
8. Abutment Repairs



**ELEVATION**

328'-5"



**PLAN**

**TOTAL BILL OF MATERIAL**

| ITEM   | UNIT    | SUPER | SUB | TOTAL |
|--|---------|-------|-----|-------|
| Hot-Mix Asphalt Surface Removal (Deck)                         | Sq. Yd. | 3044  |     | 3044  |
| Deck Slab Repair (Partial)                                     | Sq. Yd. | 632   |     | 632   |
| Deck Slab Repair (Full Depth, Type II)                         | Sq. Yd. | 204   |     | 204   |
| Waterproofing Membrane System                                  | Sq. Yd. | 2,998 |     | 2,998 |
| Hot-Mix Asphalt Surface Course, Mix "D", N50                   | Ton     | 252   |     | 252   |
| Structural Repair of Concrete (Depth equal to or less than 5") | Sq. Ft. | 30    | 426 | 456   |
| Concrete Removal   | Cu. Yd. | 17.4  |     | 17.4  |
| Reinforcement Bars, Epoxy Coated                               | Pound   | 2530  |     | 2530  |
| Concrete Superstructure  | Cu. Yd. | 20.2  |     | 20.2  |
| Protective Coat  | Sq. Yd. | 54    |     | 54    |
| Bar Splicers   | Each    | 32    |     | 32    |
| Prefomed Joint Strip Seal                                      | Foot    | 180   |     | 180   |

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

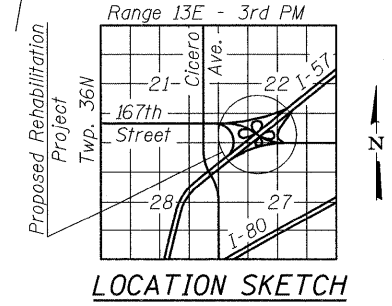
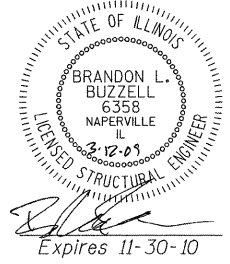
These plans have been prepared from notes received from the Illinois Department of Transportation field maintenance Engineers. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500 \text{ psi}$   
 $f_y = 60,000 \text{ psi (Reinforcement)}$

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges



**LOCATION SKETCH**

**rjngroup**  
 Excellence through Ownership  
 200 West Front Street  
 Wheaton, IL 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 GENERAL PLAN AND ELEVATION  
 167th STREET OVER I-57  
 FAI RTE 57 SECTION 1011.3 I  
 COOK COUNTY  
 STATION 28+71.53  
 STRUCTURE NO. 016-2125  
 DATE: 11-06-2007  
 DRAWN BY WJV  
 CHECKED BY BLB

3/12/2009 K:\11225581\Structures\167th over I-57\GPE.dgn