

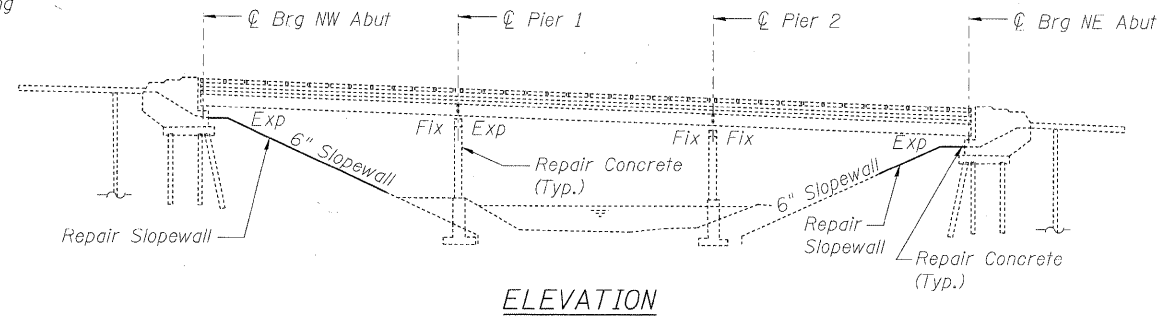
Existing Structure: SN 099-0063

The existing structure is a three span composite steel wide flange beam bridge. The beams support a 7" reinforced concrete slab and a 2" thick waterproof membrane system and polymerized bituminous concrete surface course. The substructure consists of reinforced concrete stub abutments founded on steel piles and multi-column piers founded on spread footings. The structure was originally constructed in 1964 as FAI Route 80, Section 99-4B-1 and rehabilitated in 1990, 1998, and 2001.

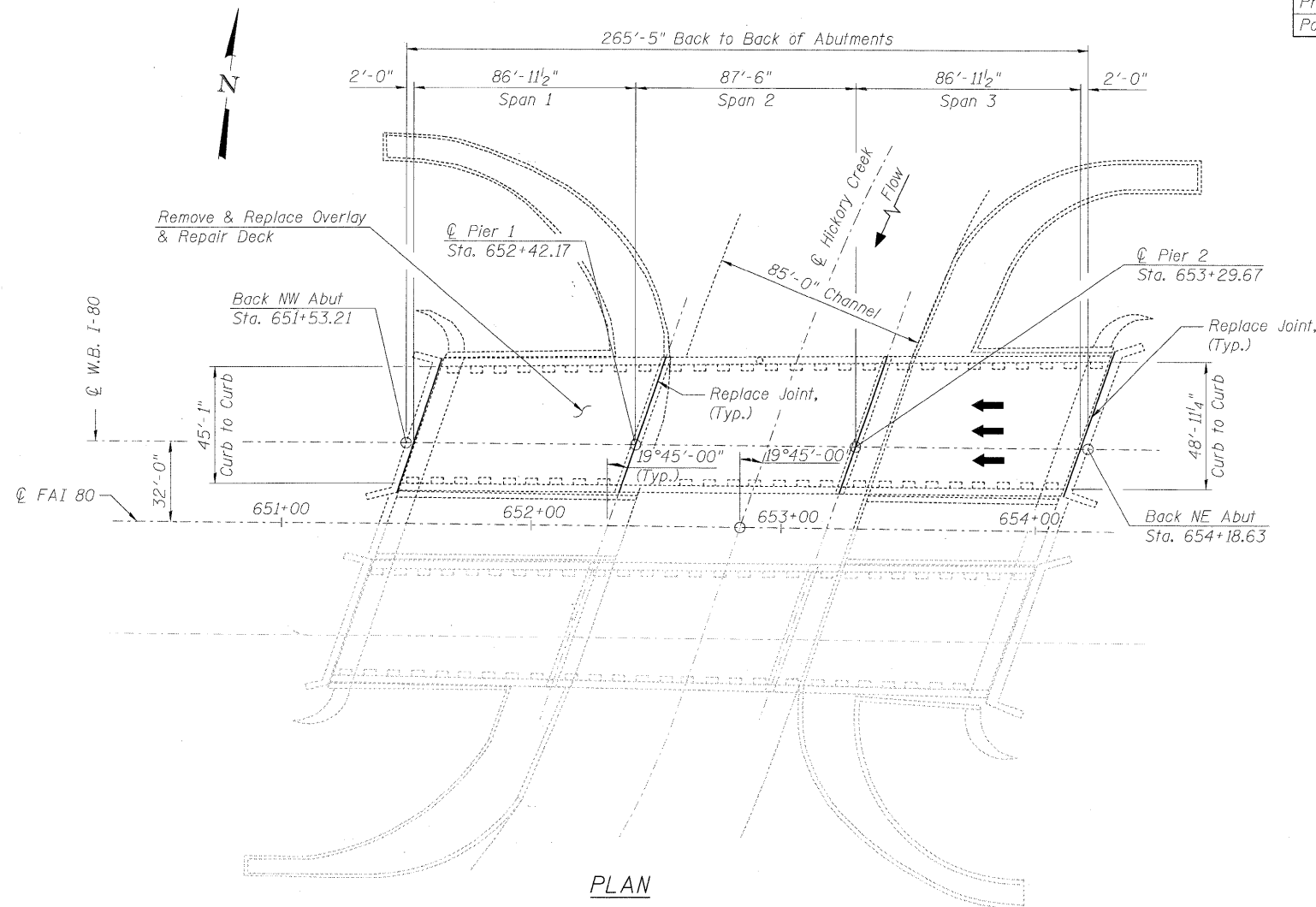
Staging:

Traffic shall be maintained using stage construction.

Salvage:
None.



ELEVATION



PLAN

TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
|---|---------|-------|-----|-------|
| Hot-Mix Asphalt Surface Removal (Deck) | Sq. Yd. | 1,340 | — | 1,340 |
| Deck Slab Repair (Partial) | Sq. Yd. | 311 | — | 311 |
| Deck Slab Repair (Full Depth, Type I) | Sq. Yd. | 10 | — | 10 |
| Deck Slab Repair (Full Depth, Type II) | Sq. Yd. | 94 | — | 94 |
| Polymerized Hot-Mix Asphalt Surface Course, Stone Matrix Asphalt, N80 | Ton | 151 | — | 151 |
| Silicone Joint Sealer, 1" | Foot | 58 | — | 58 |
| Silicone Joint Sealer, 2.75" | Foot | 172 | — | 172 |
| Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches) | Sq. Ft. | — | 573 | 573 |
| Structural Repair Of Concrete (Depth Greater Than 5 Inches) | Sq. Ft. | — | 257 | 257 |
| Slope Wall Removal | Sq. Yd. | — | 133 | 133 |
| Slope Wall 6 Inch | Sq. Yd. | — | 133 | 133 |
| Protective Shield | Sq. Yd. | 1,564 | — | 1,564 |
| Porous Granular Embankment | Cu. Yd. | — | 67 | 67 |

SCOPE OF WORK

1. Remove the existing 2"± thick polymerized bituminous concrete surface course and replace it with a 2"± thick polymerized hot-mix asphalt surface course.
2. Perform partial and full depth repairs of the bridge deck.
3. Perform structural repairs on the abutments and the piers.
4. Replace the existing preformed joint sealers at the abutments and piers with silicone joint sealers.
5. Perform structural repairs to the slopewalls.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition.

DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi

GENERAL NOTES

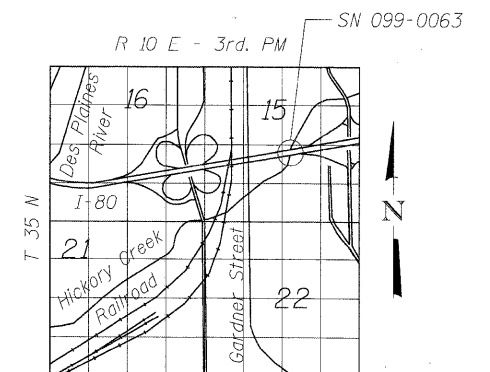
1. Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60. See Special Provisions.
2. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. Contractor should verify dimensions and make necessary approved adjustments prior to starting construction. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for actual quantity furnished and approved by Engineer at unit price bid for the work.
3. Areas of proposed repairs are estimated. Actual type, location and dimensions are to be determined by the Engineer during construction.
4. Contractor shall remove the existing asphalt wearing surface and, as necessary, adjust the milling depth to prevent damage to the existing waterproofing membrane system. After satisfactory completion of the deck repair work, an asphalt surface course shall be placed in sufficient thickness as to match the elevation of the original surface.
5. Protective shield shall be installed prior to any deck slab repair work. Protective shield required for environmentally sensitive creek.
6. Substructure repairs shall be done under staging when no live load is present over repair area.

INDEX OF SHEETS

- S-1 General Plan & Elevation, Notes & Total Bill of Material
- S-2 Construction Staging
- S-3 Deck & Expansion Joint Repairs
- S-4 Abutment Repairs
- S-5 Slopewall Repairs
- S-6 Pier 1 Repairs
- S-7 Pier 2 Repairs
- S-8 Temporary Concrete Barrier for Stage Construction



Signed: *Philip C. Azzarello*
Date: 1-19-11
Exp: 11/30/2012
Sheets: S-1 thru 8



LOCATION SKETCH

| | | | | | | | | | | | | | | |
|-------------------------|---------------------|-----------|--|---|--|--------------|------|-----|-----|--------------------|---------|--------|--------------|-----------|
| USER NAME = rowood | DESIGNED - PCA | REVISED - | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GENERAL PLAN & ELEVATION, NOTES & TOTAL BILL OF MATERIAL WESTBOUND FAI-80 OVER HICKORY CREEK STRUCTURE NO. 099-0063 | | | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| PLOT SCALE = 1/8"=1' | DRAWN - RCW | REVISED - | | | 80 | 99(4B-1)RS-3 | WILL | 203 | 166 | | | | | |
| PLOT DATE = 19-JAN-2011 | CHECKED - ACF / PCA | REVISED - | | | SHEET NO. S-1 OF 8 SHEETS | | | | | CONTRACT NO. 60M66 | | | | |
| DATE = 01/21/2011 | DATE - 01/21/2011 | REVISED - | | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | | | | | | |