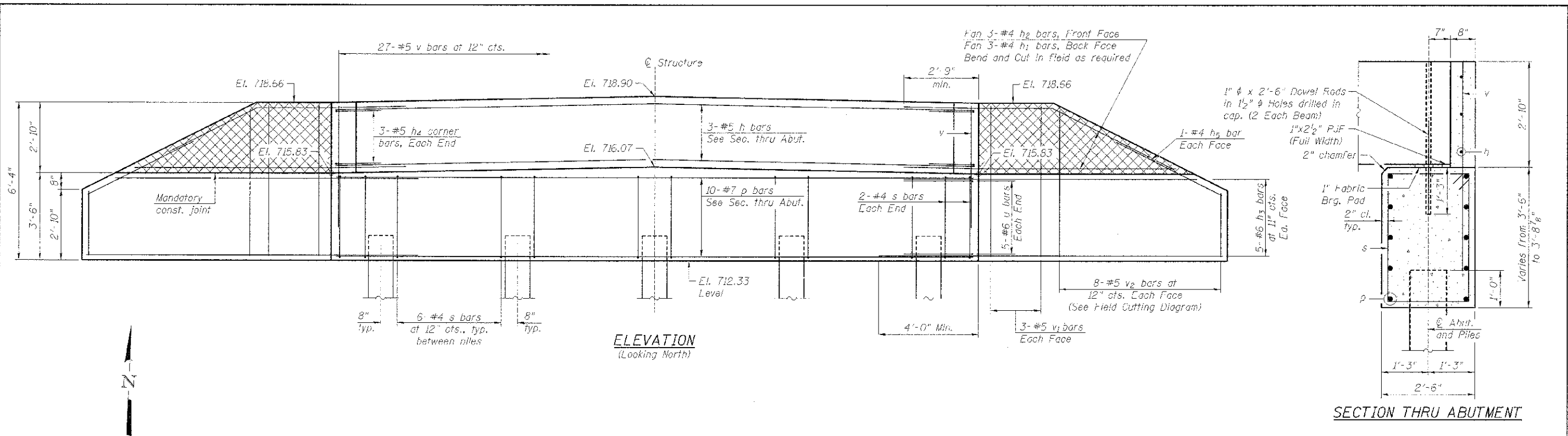
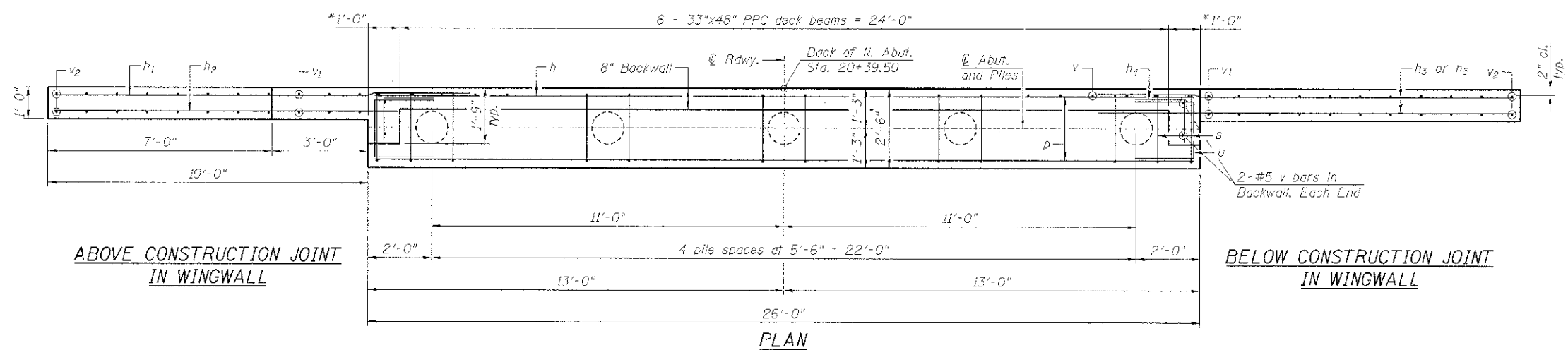




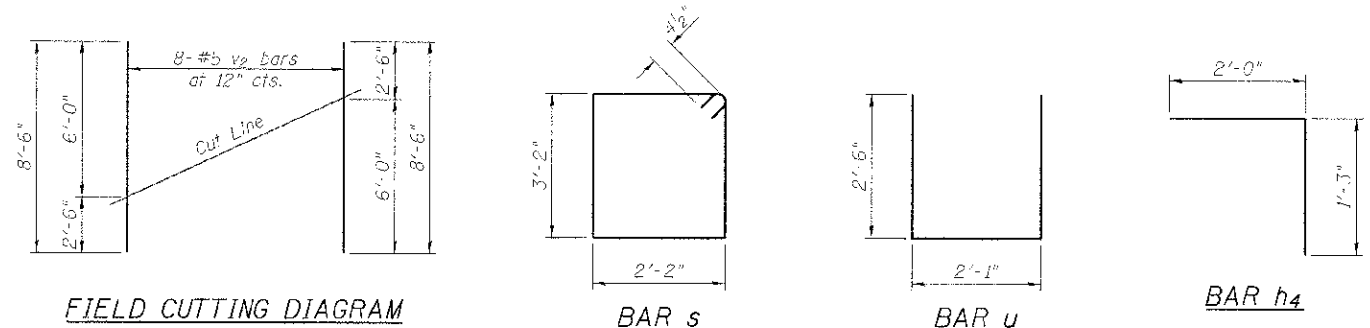
SECTION THRU ABUTMENT



PLAN

PILE DATA

Type: Metal Shell 12"  $\phi$  x 0.250" walls  
 Nominal Required Bearing: 294 kips  
 Factored Resistance Available: 162 kips  
 Est. Length: 50'  
 No. Production Piles: 4  
 No. Test Piles: 1



FIELD CUTTING DIAGRAM

Order v2 bars full length. Cut as shown and use remainder of bars in opposite face.

| BILL OF MATERIAL                          |     |      |         |       |
|-------------------------------------------|-----|------|---------|-------|
| Bar                                       | No. | Size | Length  | Shape |
| h                                         | 3   | #5   | 25'-8"  |       |
| h1                                        | 6   | #4   | 11'-4"  |       |
| h2                                        | 6   | #4   | 9'-4"   |       |
| h3                                        | 20  | #6   | 13'-10" |       |
| h4                                        | 6   | #5   | 3'-3"   |       |
| h5                                        | 4   | #4   | 4'-9"   |       |
| p                                         | 10  | #7   | 25'-8"  |       |
| s                                         | 28  | #4   | 11'-5"  |       |
| u                                         | 10  | #6   | 7'-1"   |       |
| v                                         | 31  | #5   | 4'-10"  |       |
| v1                                        | 12  | #5   | 6'-0"   |       |
| v2                                        | 16  | #5   | 8'-6"   |       |
| Concrete Structures                       |     |      | Cu. Yd. | 14.4  |
| Reinforcement Bars                        |     |      | Pound   | 1,830 |
| Furnishing Metal Shell Piles 12" x 0.250" |     |      | Foot    | 200   |
| Driving Piles                             |     |      | Foot    | 200   |
| Test Pile Metal Shells                    |     |      | Each    | 1     |
| Porous Granular Embankment, Special       |     |      | Ton     | 15    |

NOTES:

Hatched portion of wingwalls to be poured with the backwall after the deck beams have been installed and grout has cured for a minimum of 24 hours.  
 All exposed edges shall have standard  $\frac{3}{4}$ " chamfers, except as noted.  
 Space reinforcement in cap to miss dowel rods.  
 After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hours prior to grouting the shear keys.  
 For pile details, see Structural Sheet 8 of 9.  
 \* May vary due to overrun of beams.  
 \*\* For Drainage Details, see Structural Sheet 2 of 9.

FILE: S:\PROJECTS\2012\1003012-Bureau\TR46\DESIGN\STRUCT\Drawings\0003012\_N.Abut.dgn



|            |     |           |  |
|------------|-----|-----------|--|
| DESIGNED - | IPN | REVISED - |  |
| CHECKED -  | BKC | REVISED - |  |
| DRAWN -    | FDL | REVISED - |  |
| CHECKED -  | BKC | REVISED - |  |

**BUREAU COUNTY**  
**T.R. 46 (350 E. ST.) OVER W. FORK SPOON RIVER**  
**STATION 20+00**

**NORTH ABUTMENT DETAILS**  
**STRUCTURE NO. 006-4263**  
 STRUCTURAL SHEET NO. 6 OF 9

| W.P.<br>RTE.                            | SECTION        | COUNTY             | TOTAL<br>SHEETS | SHEET<br>NO. |
|-----------------------------------------|----------------|--------------------|-----------------|--------------|
| 46                                      | 11-18103-00-BR | BUREAU             | 19              | 12           |
| WHA* 1003012                            |                | CONTRACT NO. 87531 |                 |              |
| ILLINOIS FED. AID PROJECT BRCS-20110901 |                |                    |                 |              |