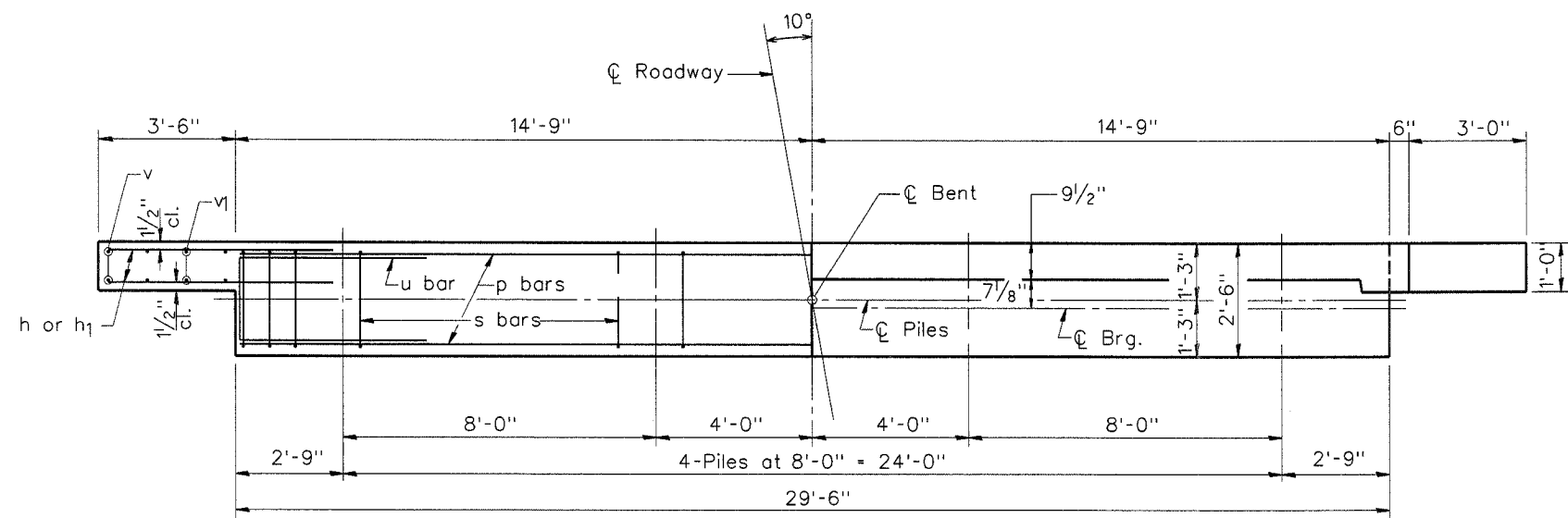
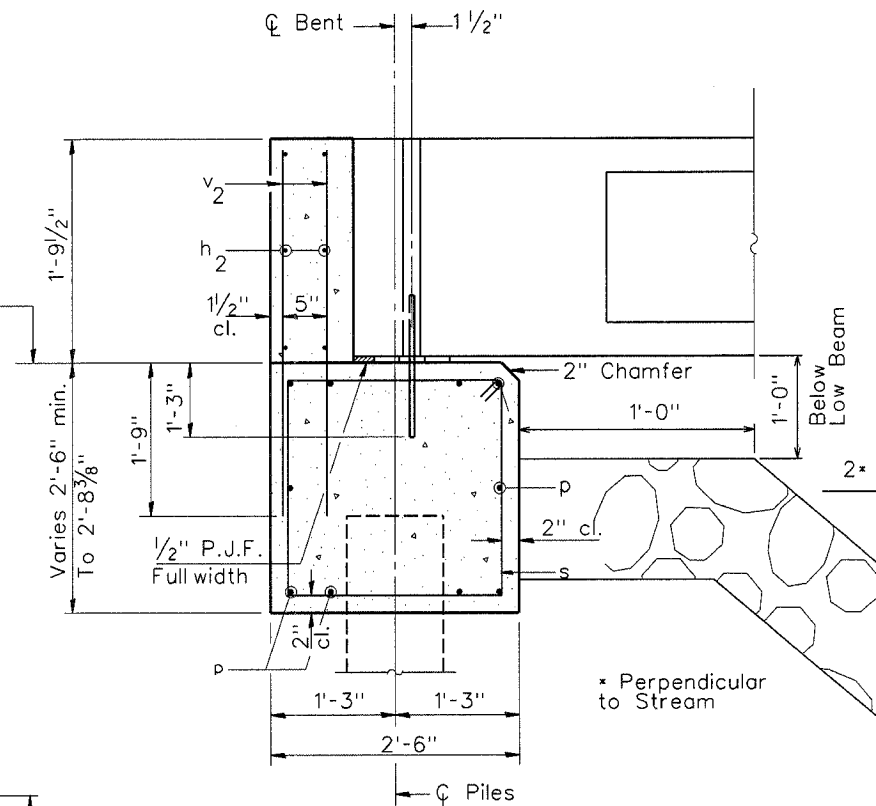


|               |                |                  |              |           |
|---------------|----------------|------------------|--------------|-----------|
| FAS RTE       | SECTION        | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 238           | 01-00130-00-BR | HENRY            | 14           | 9         |
| F.H.W.A. REG. |                | ILLINOIS PROJECT |              |           |

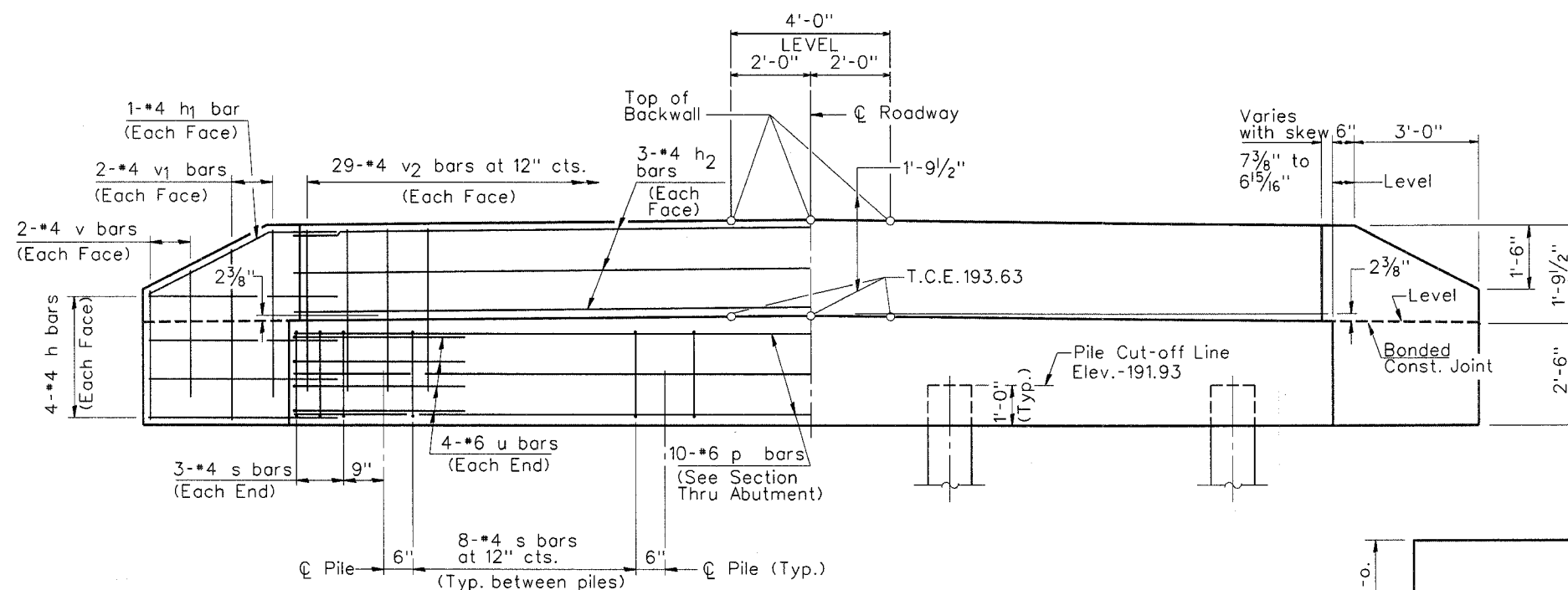


PLAN



SECTION THRU ABUTMENT

(At Right Angles To Centerline of Abutment)



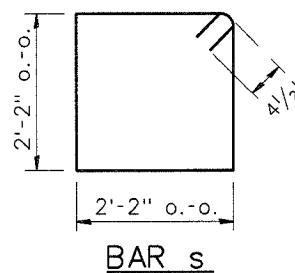
ELEVATION

NOTES

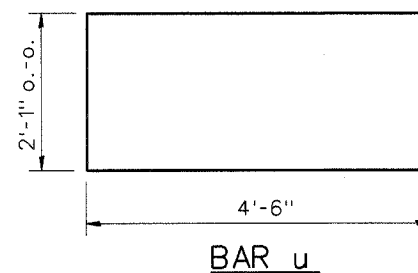
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.

DESIGN STRESSES

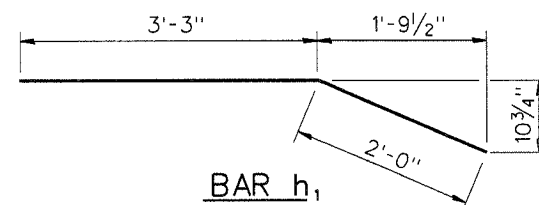
f'c = 3,500 psi  
fy = 60,000 psi



BAR s



BAR u



BAR h1

BILL OF MATERIAL FOR ONE ABUTMENT

| Bar | No. | Size | Length              | Shape        |
|-----|-----|------|---------------------|--------------|
| h   | 16  | #4   | 5'-0"               | —            |
| h1  | 4   | #4   | 5'-3"               | —            |
| h2  | 6   | #4   | 29'-3"              | —            |
| p   | 10  | #6   | 29'-3"              | —            |
| s   | 30  | #4   | 9'-5"               | □            |
| u   | 8   | #6   | 11'-1"              | □            |
| v   | 8   | #4   | 2'-8"               | —            |
| v1  | 8   | #4   | 3'-8"               | —            |
| v2  | 58  | #4   | 3'-5"               | —            |
|     |     |      | Concrete Structures | 9.7 Cu. Yds. |
|     |     |      | Reinforcement Bars  | 1110 Pound   |

PROJECT TITLE: HENRY COUNTY BRIDGE  
 SECTION: 01-00130-00-BR (FAS 1232)  
 SHEET TITLE: PILE BENT ABUTMENT  
 SHEET NO.: 8 OF 13 SHEETS  
 PROJECT NO.: 07066  
 DATE: 03.01.07  
 SOLEMAN and Associates, Inc.  
 340 NORTH WELLS STREET  
 CHAMPAIGN, ILLINOIS 61824-0557  
 TEL 217 352-7688 FAX 217 352-7922  
 ENGINEERING / ANALYSIS / MANAGEMENT  
 DES. / CHECKED: JRB / JRB  
 DATE: 03.01.07