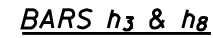


### DETAIL OF BOX CULVERT EXTENSION WITH CAST-IN-PLACE BOX CULVERT



| Bar                                | No. | Size | Length  | Shape                                                                                 |
|------------------------------------|-----|------|---------|---------------------------------------------------------------------------------------|
| $a_1$                              | 28  | #8   | 10'-6"  |    |
| $a_2$                              | 7   | #4   | 8'-3"   |    |
| $d$                                | 10  | #4   | 4'-6"   |  |
| $h$                                | 12  | #6   | 9'-8"   |  |
| $h_1$                              | 16  | #5   | 9'-8"   |  |
| $h_2$                              | 6   | #5   | 9'-8"   |  |
| $h_3$                              | 10  | #4   | 8'-0"   |  |
| $h_4$                              | 6   | #6   | 8'-8"   |  |
| $h_5$                              | 12  | #4   | 7'-0"   |  |
| $s$                                | 10  | #4   | 4'-5"   |  |
| $s_1$                              | 20  | #4   | 4'-7"   |  |
| $v$                                | 30  | #4   | 3'-2"   |  |
| $v_1$                              | 8   | #4   | 5'-1"   |  |
|                                    |     |      |         |                                                                                       |
|                                    |     |      |         |                                                                                       |
|                                    |     |      |         |                                                                                       |
|                                    |     |      |         |                                                                                       |
| Concrete Box Culverts              |     |      | Cu. Yd. | 8.9                                                                                   |
| Reinforcement Bars                 |     |      | Pound   | 1620.0                                                                                |
| $\frac{3}{4}$ Inch Expansion Bolts |     |      | Each    | 16.0                                                                                  |

|                           |         |        |
|---------------------------|---------|--------|
| Concrete Box Culverts     | Cu. Yd. | 8.9    |
| Reinforcement Bars        | Pound   | 1620.0 |
| 3/4" Inch Expansion Bolts | Each    | 16.0   |

**BOX CULVERT EXTENSION**  
**W/CAST-IN-PLACE BOX CULVERT**  
**LT. STA 225+00**

**LOCATION #2 PESOTUM**

### DESIGN STRESSES

LOADING HS 20-44 & ALT.

Top & Bottom Edge Beams  
Stirrups @ 12" cts.

```
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