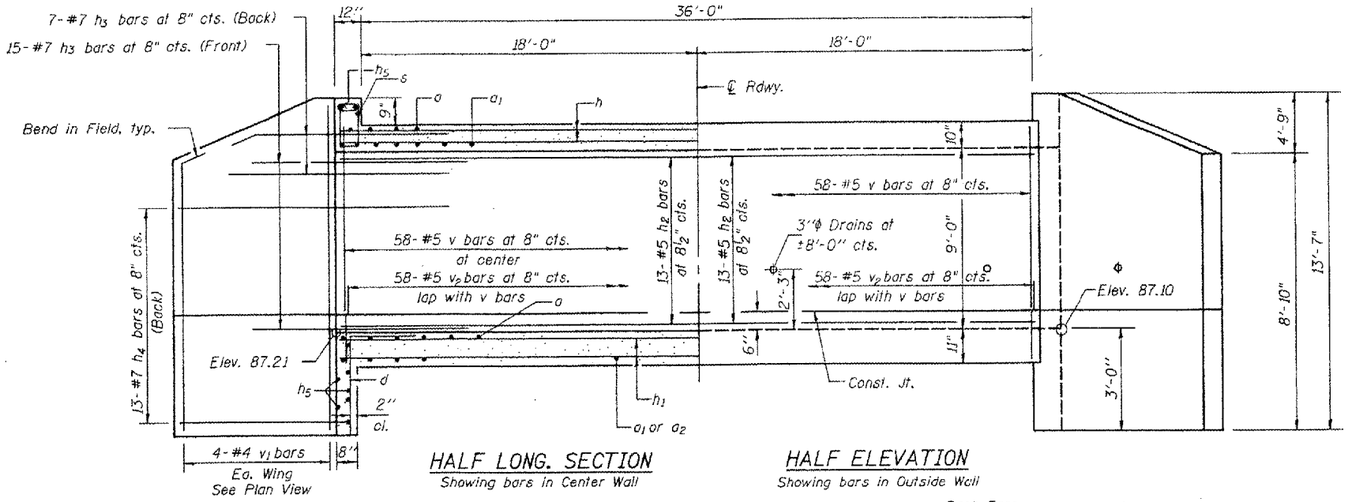
Contract # 89375

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| CH 39 | * | KNOX | 7 | 5 |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT- | | |

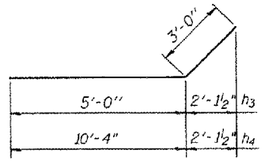
* 05-00142-00-BR

BR-05-095(122)

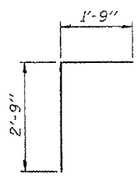



HALF LONG. SECTION
Showing bars in Center Wall

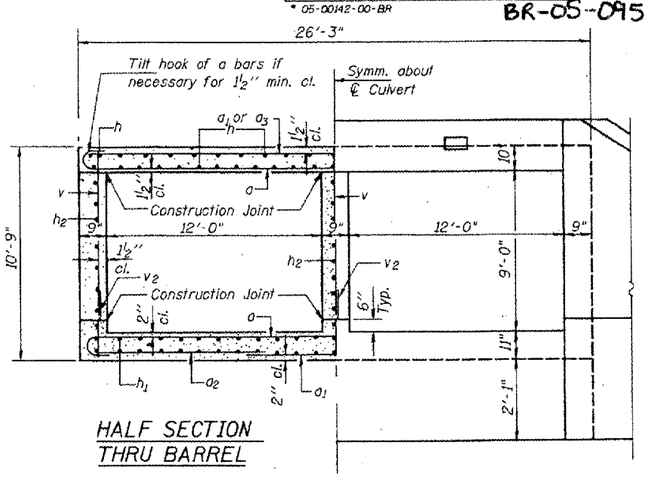
HALF ELEVATION
Showing bars in Outside Wall




BARS $h_3$ & $h_4$

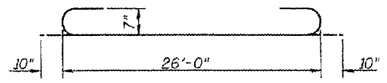



BAR d

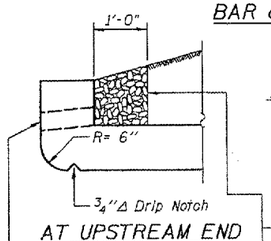



HALF SECTION THRU BARREL

HALF END ELEVATION

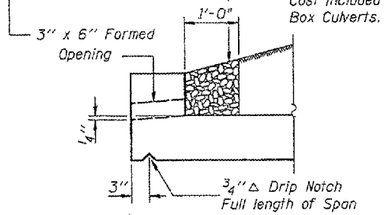



BAR a

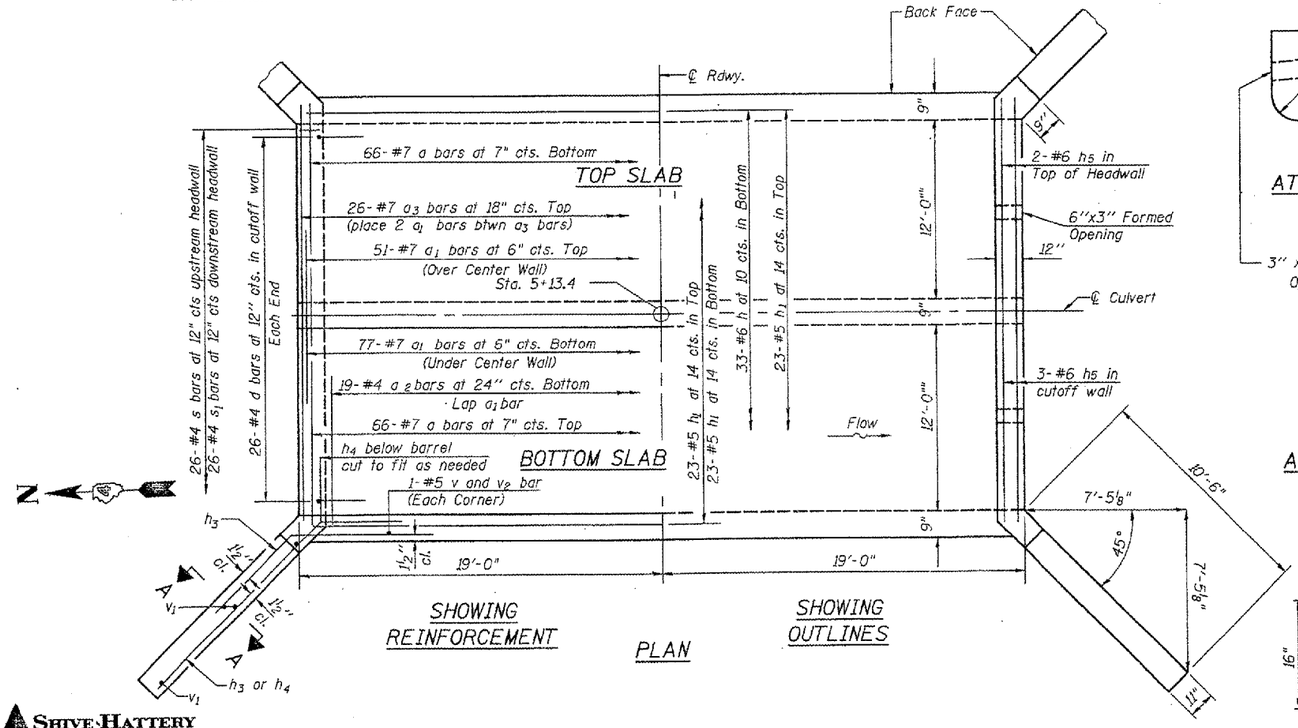



AT UPSTREAM END

Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.



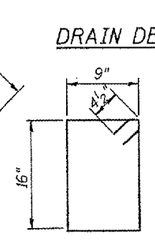

AT DOWNSTREAM END



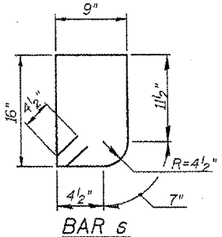

SHOWING REINFORCEMENT

PLAN

SHOWING OUTLINES

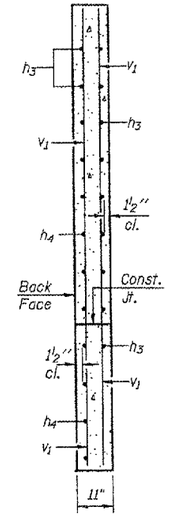



BAR s1
(DOWNSTREAM)




BAR s
(UPSTREAM)

DRAIN DETAIL




SECTION A-A

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| a | 132 | #7 | 27'-8" | |
| a1 | 128 | #7 | 12'-0" | |
| a2 | 38 | #4 | 8'-10" | |
| a3 | 26 | #7 | 26'-0" | |
| d | 52 | #4 | 4'-6" | |
| h | 33 | #6 | 37'-9" | |
| h1 | 69 | #5 | 37'-9" | |
| h2 | 39 | #5 | 37'-9" | |
| h3 | 88 | #7 | 8'-0" | |
| h4 | 52 | #7 | 13'-4" | |
| h5 | 10 | #6 | 25'-8" | |
| s | 26 | #4 | 4'-9" | |
| s1 | 26 | #4 | 4'-11" | |
| v | 178 | #5 | 9'-2" | |
| v1 | 16 | #5 | 13'-3" | |
| v2 | 178 | #5 | 2'-11" | |
| Concrete Box Culverts | | | Cu. Yd. | 112.8 |
| Reinforcement Bars | | | Pound | 24,370 |

BOX CULVERT DETAILS
CH39 OVER
TRIBUTARY OF THE SPOON RIVER
SEC. 05-00142-00-BR
KNOX COUNTY
STATION 5+13.4
STRUCTURE NO. 048-3343

SHIVE-HATTERY

| | |
|---|---|
| DESIGNED | D. FENDER |
| CHECKED | W. THOMPSON |
| DRAWN | D. FENDER |
| CHECKED | W. THOMPSON |

DB-H-0 date 1/15/06

Min. Bar Laps
#4 1'-4"
#5 1'-8"
#6 2'-0"
#7 2'-9"

Notes: A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.