

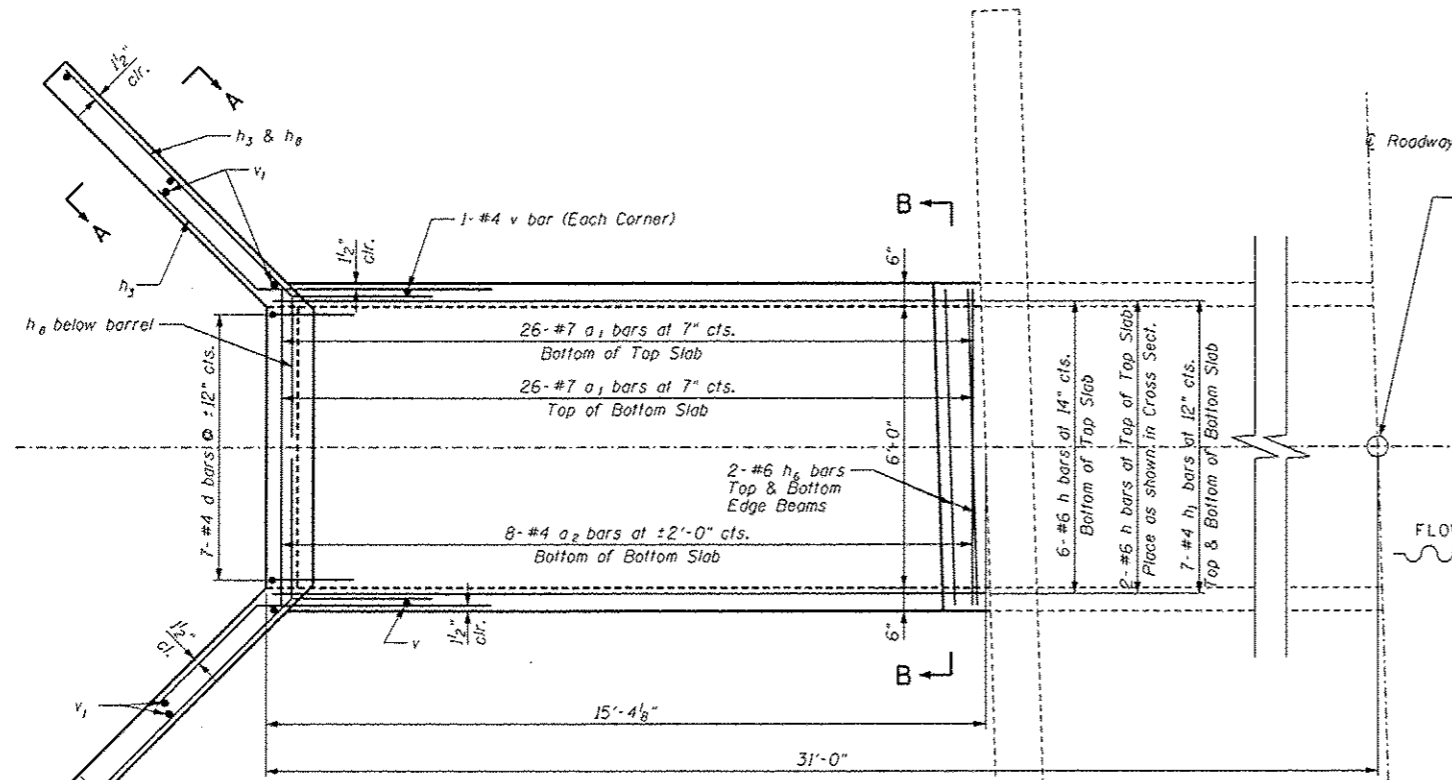
**LONGITUDINAL SECTION**

Dimensions at Right Angles to  $\bar{C}$  Roadway and at  $\bar{C}$  of culvert barrel.

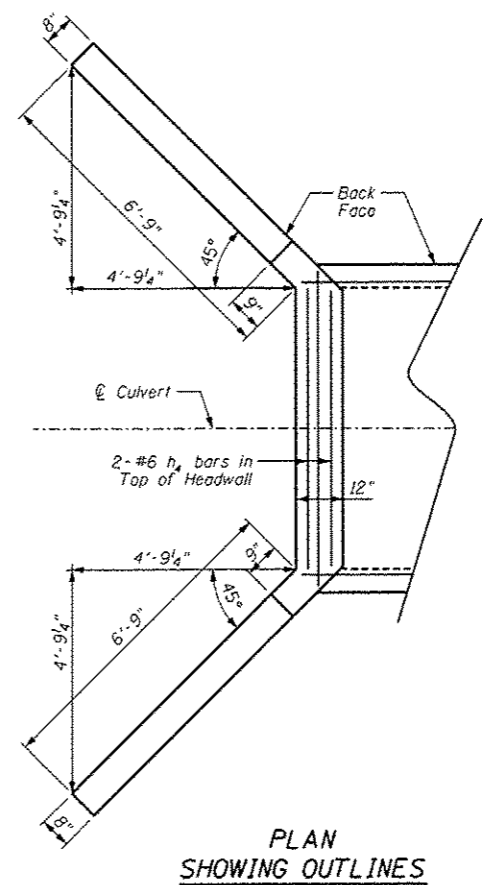
- \*\* For  $h_2$  bars below the construction joint, the 3'-0" section of the bar is turned into the toe wall.
- \*\*\* For  $h_2$  bars above the construction joint, the 3'-0" section of the bar is turned into the wall of the barrel.

**ELEVATION**

Dimensions at Right Angles to  $\bar{C}$  Roadway and at  $\bar{C}$  of culvert barrel.



**PLAN SHOWING OUTLINES & REINFORCEMENT**



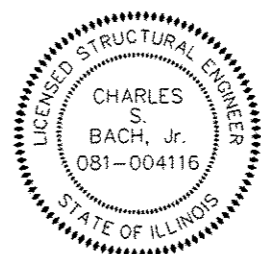
**PLAN SHOWING OUTLINES**

**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.
- Reinforcement Bars shall conform to the requirements of ASTM A-706, Grade 60. See Special Provisions.
- Precast culvert option is not allowed.
- All excavation required for construction of the culvert in accordance with the standard specifications shall be included in the cost of Concrete Box Culverts.
- Areas of excavation required for removal of existing structure or construction of the new culvert shall be backfilled with Granular Culvert Backfill up to the top of slab elevation. See Special Detail sheet.
- All construction joints shall be bonded.

TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS CULVERT DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH THE REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES."

*Charles S. Bach, Jr.* 8/16/2013  
 STRUCTURAL ENGINEER PSBA EXPIRES: 11/30/2014



**LOADING HL-93**  
 Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**  
 2012 AASHTO LRFD  
 BRIDGE DESIGN SPECIFICATIONS 6th EDITION  
**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi

FILE NAME = culvert1332+7140 CIP-WEST-EXT.dgn	USER NAME = notal	DESIGNED - TCD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS CULVERT EXTENSION: STA 1332+71.40, LT	F.A.S. RTE. 1597	SECTION 14 (W. RS-7)	COUNTY ADAMS/PIKE	TOTAL SHEETS 152	SHEET NO. 53		
PLOT SCALE = 41/1389 1/4" = 1"	CHECKED - CSB	REVISOR -	SCALE: NTS			SHEET 1 OF 2 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
PLOT DATE = 8/16/2013	DATE - 07/2013	REVISOR -										
72781												