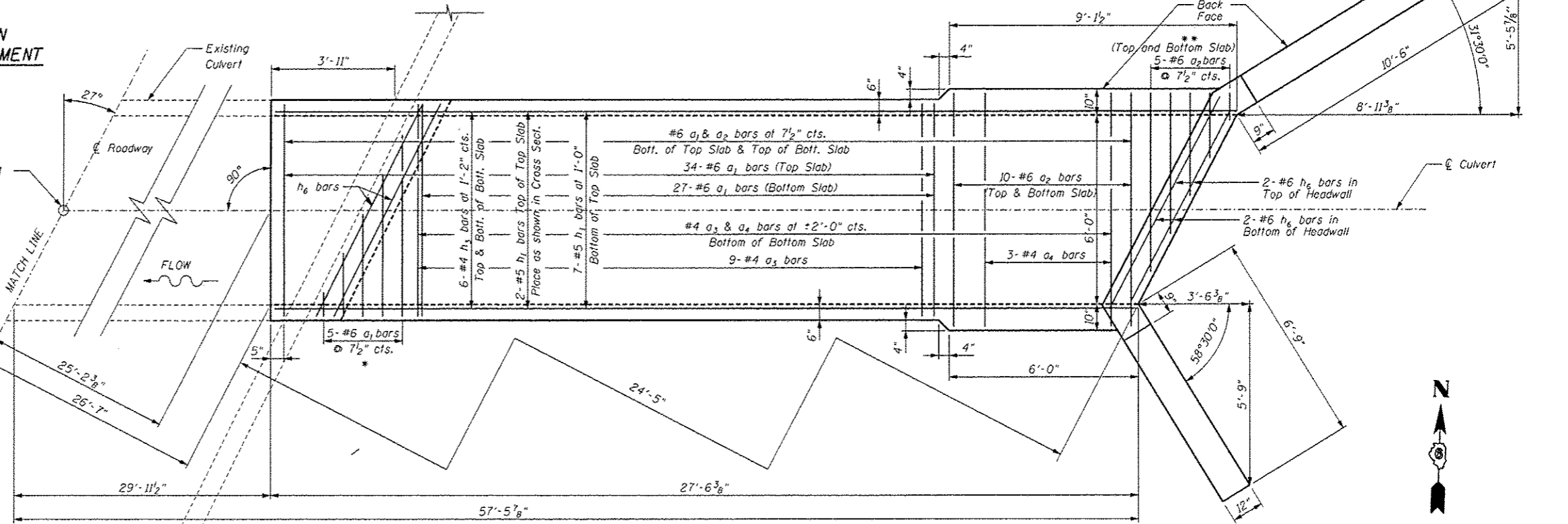


* a₁ bars in skew portion of slab shall be ordered full length and cut to fit. Balance of bar to be used in opposite end of culvert.
 ** a₂ bars in skew portion of slab shall be ordered full length and cut to fit. Balance of bar to be used either in top or bottom of same end or opposite end of culvert.

**WEST EXTENSION
SHOWING REINFORCEMENT**



**EAST EXTENSION
SHOWING OUTLINES & REINFORCEMENT**

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface. Sta. 1393+88.41

DESIGN SPECIFICATIONS

2012 AASHTO LRFD
BRIDGE DESIGN SPECIFICATIONS 6th EDITION

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi



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.
8-18-2013
STRUCTURAL ENGINEER PSBA EXPIRES: 11/30/2014

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 AASHTO M-31, M-42 or M-53, Grade 60. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line. All construction joints shall be bonded.

FILE NAME = culvert1393+8841.dgn	USER NAME = notal	DESIGNED - TCD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS		F.A.S. RTE. 1597	SECTION 14 (W, RS-7)	COUNTY ADAMS/PIKE	TOTAL SHEETS 152	SHEET NO. 61	
	PLLOT SCALE = 40/1269 1" = 10'	DRAWN - PSBA	REVISED -		CULVERT EXTENSION: STA 1393+88.41 LT & RT		SCALE: NTS	SHEET 1 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 72781		
	PLLOT DATE = 8/16/2013	CHECKED - CSB	REVISED -									
		DATE - 07/2013	REVISED -				ILLINOIS FED. AID PROJECT					