#### Benchmarks:

BM 1: Cut square in top of concrete wingwall at the South East corner of the Harlem Avenue Bridge over Black Walnut Creek. Elev. 689.71



ROLITE NO.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. S-O
s. s. i. r. n. 3762	01-00139-02-	BR	WIII	35	15	S-13 SHEETS
PEO, HORD DIST. NO. 1 ILL		ILLIN	INDIS FED. ALD PROJECT-			

CONTRACT \*: 83802

#### DESIGN SPECIFICATIONS 2002 AASHTO with 2003 & 2004 Interims

## \*LOADING HS20-44

50#/sq. ft. for future wearing surface. \* Also designed for 120,000 Lb. Permit loading

# DESIGN STRESSES

<u>FIELD UNI</u>TS fy = 60,000 psi (Reinforcement Bars) f'c = 4,000 psi (Class SI) f'c = 3,500 psi (Class BD) fs = 27,500 psi (Structural Steel)

## SEISMIC DATA

Seismic Performance Category (SPC) = "A" Bedrock Acceleration Coefficient (A) = 0.04g Site Coefficient (S) = 1.0





To the best of my knowledge, information and belief, this bridge 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 requirements of the current "AASHTO Standard Specifications for Highway Bridges".

Thebert & Date Licensed Structural Engineer 5/26/05 Date



	Licens	ed Expires	Example 11-30-06		
SMITH EN CONSULTA CVIL/STRUCTUR	NTS, INC.	ILLINOIS DEPARTMENT OF TRANSPORTATION			
	ngineering.com NS	General Plan and Elevation			
NAME	DATE	Harlem Avenue/Drecksler Road Over Black Walnut Creek			
		Will County Section 01-00139-02-BR			
		SN. 099-3091			