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**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

### SOIL BORING LOG

Date 3/14/08

ROUTE Bypass 20, FAP 301 DESCRIPTION P92-075-08 US Bypass 20 Bridge over Rock River Channel, S. m. E. of Il. 2 LOGGED BY W. Garza


SECTION (3, 4) R LOCATION Rockford Twp. - 10 NE, SEC., TWP. 43N, RNG. 1E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-52 Diaphragm Automatic

STRUCT. NO. <u>101-0057 &amp; 0058</u> Station <u>483+55</u>	BORING NO. <u>B-6</u> Station <u>481+83</u> Offset <u>8.00ft LL CL</u> Ground Surface Elev. <u>712.0</u> ft	SOIL					TESTS										
		D	B	U	M		Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	ft	ft	ft	(ft)	(ft)	(ft)
		(ft)	(%)	(tsf)	(%)												
	LOOSE brown SANDY GRAVEL																
	MEDIUM brown SANDY GRAVEL	709.50	3														
		708.00	5														
			7														
	LOOSE brown SANDY GRAVEL		4														
		705.00	4														
			4														
	MEDIUM gray SANDY LOAM		2														
		703.00	2	0.6	13												
			4	P													
	MEDIUM gray SILTY CLAY LOAM with fine SAND lens		2														
		700.00	3	0.8	21												
			5	B													
	DENSE tan SANDY GRAVEL		9														
		698.00	14														
			19														
	DENSE tan SANDY GRAVEL		14														
		695.50	19														
			24														
	VERY DENSE tan SANDY GRAVEL		15														
		693.00	23														
			33														

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, form 137 (Rev. 8-99)

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		D	B	U	M		Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	ft	ft	ft	(ft)	(ft)	(ft)
		(ft)	(%)	(tsf)	(%)												
	MEDIUM tan clean medium coarse SAND																
		670.50	10														
			11														
			12														
		668.00															
	Wash DENSE tan clean medium coarse SAND		10														
		665.50	15														
			20														
	Wash MEDIUM tan clean medium coarse SAND		7														
		660.50	11														
			16														
		658.00															
	Wash VERY DENSE tan SANDY GRAVEL		12														
		655.50	16														
			38														
		653.00															

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
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Existing Sta. 483+58.69 = New Sta. 922+44.69

DESIGNED -	EXAMINED <u>James F. [Signature]</u>	DATE - OCTOBER 4, 2013	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SOIL BORING LOGS STRUCTURE NO. 101-0195 (E.B.) &amp; 101-0196 (W.B.)</b>	F.A.P. RTE. <u>301</u>	SECTION <u>3BR &amp; 3BR-1</u>	COUNTY <u>WINNEBAGO</u>	TOTAL SHEETS <u>290</u>	SHEET NO. <u>154</u>
CHECKED -	PASSED <u>[Signature]</u>	REVISED -		SHEET NO. 55 OF 55 SHEETS	CONTRACT NO. 64D19				
DRAWN -	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			ILLINOIS FED. AID PROJECT				
CHECKED -									