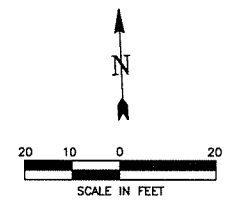


DESCRIPTION	REVISIONS	DATE

TEMPORARY BENCHMARK #1:
CHISELED SQUARE IN NORTH END OF
EAST ABUTMENT
STA 15+68.6, 10.0' LT
ELEV: 759.50



16-056
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LOG OF BORING NO. 1
White Water Road Bridge
Grove, Oklahoma

TYPE: Auger to 22 ft./Wash LOCATION: See Plate 2, West Abutment

DEPTH FT.	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT.	UNIT DRY WT. LB./CU. FT.	COHESION, TON/SQ. FT.			No. 200 %	% Recovery	% RGD
						PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT			
0			7" Asphalt	28							
5			Medium dense brown and gray fine to coarse sand with chert gravel (FILL)	14							32
9			Stiff brown and gray sandy clay with chert fragments (EMBANKMENT FILL)	9							
10			occasional organics and wood fragments at 4.5 to 5.5 ft. with dark gray silty clay seams and layers and rootlets below 9 ft.	11							
15			Firm dark gray silty clay with rootlets	27							
20			Medium dense brown clayey chert gravel and sand - water at 13 ft	23							
25			auger refusal at 22 ft	25.0'							
25			Moderately hard light gray and white cherty limestone - weathered and highly fractured to 29 ft - slight water loss	25.0'					100.25		
30											25.10
35											
40											
45											
50											
55											
60											

COMPLETION DEPTH: 45.0 ft DEPTH TO WATER IN BORING: 13 ft DATE: 4/15/2016

PLATE 3

16-056
Grubbs, Hoskyn,
Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. 2
White Water Road Bridge
Grove, Oklahoma

TYPE: Auger to 21.5 ft./Wash LOCATION: See Plate 2, East Abutment

DEPTH FT.	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT.	UNIT DRY WT. LB./CU. FT.	COHESION, TON/SQ. FT.			No. 200 %	% Recovery	% RGD
						PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT			
0			6" Asphalt	20							
5			Medium dense brown fine to coarse sand with some chert gravel (FILL)	35							12
9			Very stiff brown sandy clay with chert fragments (EMBANKMENT FILL)	42							
10			Firm dark brown silty clay with rootlets, moist - water at 10 ft	18							
15			- with some fine sand seams and occasional fine chert gravel below 14 ft	14							
15				11							73
20			auger refusal at 21.5 ft	13							
25			Moderately hard light gray and white cherty limestone with some horizontal fractures	25.0'						100.63	
30											
35											
40											
45											
50											
55											
60											

COMPLETION DEPTH: 45.0 ft DEPTH TO WATER IN BORING: 10 ft DATE: 4/15/2016

PLATE 4

16-056
Grubbs, Hoskyn,
Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. 3
White Water Road Bridge
Grove, Oklahoma

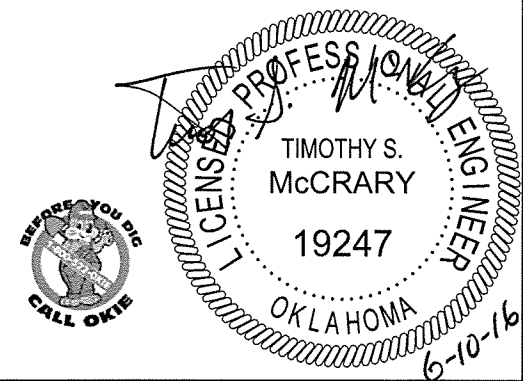
TYPE: Auger LOCATION: See Plate 2

DEPTH FT.	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT.	UNIT DRY WT. LB./CU. FT.	COHESION, TON/SQ. FT.			No. 200 %	% Recovery	% RGD
						PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT			
0			Approximately 9 inch bridge deck								
5											
10			Water in the creek								
15											
20			Loose gravel								
25			auger refusal at 23 ft on bedrock								
25			Note: Boring performed through a 6-inch hole drilled in the bridge deck.								
30											
35											
40											
45											
50											
55											
60											

COMPLETION DEPTH: 23.0 ft DEPTH TO WATER IN BORING: 12 ft DATE: 4/25/2016

PLATE 5

Time: 4:41 pm
Scale: 1"=20 (FS)
Date: 5/31/2016
Xrefs Used: ENG, 1SealTM, TB
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Design	TMC	4/16	DELAWARE COUNTY	WHITE WATER CREEK BRIDGE
Drawn	JDF	6/16	BRIDGE FOUNDATION REPORT	
Checked	GLB	6/16		
Approved			County: DELAWARE	Project No. J/P 32598(04)
Squad				Sheet No. 7