ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 827	12Z-3, 12BR	WABASH, IL GIBSON, IN	158	111
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS	PROJECT	

BRIDGE SHEET S95 OF S114

CONTRACT 94450

Bore Log

Sheet 1 of 2

Date 4/15-17/2002

PROJECT FAP 827
ROUTE IL Rt. 15/N Rt. 64
SECTION 12BR, 12Z-3
COUNTY Wabash - IL / Gibson - IN
STRUCTURE NO. Exist. 093-0014 Prop. 093-0021

DESCRIPTION Wabash River Crossing
LOCATION T1S, R12W, Section 26, SW 1/4
DRILL METHOD CME 55/HW & NW Casing/wash bore
HAMMER TYPE Automatic Hammer/Cathead

Drilled By Herriss Drilling
Checked By SCI

Boring No.: B-107
Station: 1033+41
Offset: Centerline
Barge Deck El. 392.68
Mudline El. 368.68

Surface Water Elevation: 387.68
Groundwater Elevation
First Encountered: N/A
Upon Completion: N/A
After 24 Hours:N/A /Collapse:N/A
Mud Rotary Start Elevation: 363.68

Depth (ft) El.	N	Qu t/sf	W %	Description
				Soft River SEDIMENT - El. 368.68 to El. 364.68
				Due to the current, the top 1.5 feet of HW casing
				(4.5-inch O.D./4.0-inch I.D.) settled and lower
				3.5 feet of HW casing was pushed.
363.68	5			
	2			Loose Gray and Brown Medium to Fine SAND,
	2	--		trace Fine Gravel
	2			(Automatic Hammer)
				A-2
				Intermediate Sample not obtained - Driller's omission
359.18				
10	15			Dense Gray and Brown Coarse to Fine SAND,
358.18	20	--		little Fine Gravel (Cathead) A-2
	24			Dense Gray and Brown Medium to Fine SAND,
				trace Fine Gravel
				A-2
	11			(Cathead) (determined by laboratory analysis)
	16	--		
	21			
15	16			
	17	--		(Cathead)
	26			
	13			
	17	--		(Cathead)
	23			
20	16			
348.18	20	--		(Cathead)
	23			Medium Dense Gray and Brown Coarse to Fine
				SAND, little Fine Gravel
				A-2
9				

Depth (ft) El.	N	Qu t/sf	W %	Description
	12	--		
	14			
344.68				
25	10			Dense Grey and Brown Medium to Fine SAND,
	15	--		little Fine Gravel
	17			(Cathead)
				A-2
342.18				
	14			Dense Grey and Brown Medium to Fine SAND,
	16	--		trace Fine Gravel
	27			(Cathead)
				A-2
				(determined by laboratory analysis)
30	25			
	21	--		(Cathead)
	25			
10				
	18	--		(Cathead)
	24			
334.68				
35	8			Medium Dense Gray and Brown Medium to Fine
	10	--		SAND, trace Fine Gravel
	13			(Cathead) A-2
332.18				
	10			Dense Grey and Brown Medium to Fine SAND,
	16	--		trace Fine Gravel
	16			(Cathead)
				A-2
329.68				
				Dense Grey and Brown Medium to Fine SAND
40	12			
	16	--		(Cathead) A-2
	21			
10				
	14	--		
	29			
324.68				
45	9			Medium Dense Gray and Brown Medium to Fine SAND A-2

Standard Penetration Test (N-value) - Blows per foot to drive 2-inch O.D. split spoon sampler 12-inches with a 140# Hammer falling 30-inches. Failure Type: B-Bulge; S-Shear; P-Penetrometer Test; E-Estimated
Qu - Unconfined Compressive Strength (t/sf)
W - water content (percentage of oven dry weight - %)
AASHTO Designations are estimated unless otherwise noted and determined by laboratory analysis

Bore Log

Sheet 2 of 2

Date 4/15-17/2002

PROJECT FAP 827
ROUTE IL Rt. 15/N Rt. 64
SECTION 12BR, 12Z-3
COUNTY Wabash - IL / Gibson - IN
STRUCTURE NO. Exist. 093-0014 Prop. 093-0021

DESCRIPTION Wabash River Crossing
LOCATION T1S, R12W, Section 26, SW 1/4
DRILL METHOD CME 55/HW & NW Casing/wash bore
HAMMER TYPE Automatic Hammer/Cathead

Drilled By Herriss Drilling
Checked By SCI

Boring No.: B-107
Station: 1033+41
Offset: Centerline
Barge Deck El. 392.68
Mudline El. 368.68

Depth (ft) El.	N	Qu t/sf	W %	Description
	11	--		(Cathead)
	15			
318.68	50/2			
	29	--		Very Dense Grey and Brown Coarse to Fine
	36			SAND, little Fine Gravel
				(Cathead)
				A-2
316.18				
				Medium Dense Grey and Brown Medium to Fine
				SAND, trace Fine Gravel
				(Cathead)
				A-2
55	12			
	15	--		(Cathead)
	17			
311.18				
				Very Dense Grey and Brown Medium to Fine
				SAND, little Fine Gravel
				(Cathead)
				A-2
60	25			
	28	--		(determined by laboratory analysis)
	28			Fragmented Gravel observed in bottom of
				SPT Sampler spoon
306.18				
				Very Dense Brown and Grey Medium to Fine
				SAND, some Fine Gravel
				(Cathead)
				Per drillers observation losing mud (approx.
65	12			150 gallons from 63.5 to 64.5 feet).
	21	--		
	49			A-1-a
				Per drillers observation gravelly drilling from
				66 to 69.5 feet.

Surface Water Elevation: 387.68
Groundwater Elevation
First Encountered: N/A
Upon Completion: N/A
After 24 Hours:N/A /Collapse:N/A
Mud Rotary Start Elevation: 363.68

Depth (ft) El.	N	Qu t/sf	W %	Description
70	15			
	34	--		(Cathead)
297.68				
				Hard Gray CLAY, some Sand and trace Gravel
				(Cathead)
				A-7
				Driller observed smoother drilling below 69.5 to
				71 foot sample. Observation of washed cuttings
				indicated a gray clay with sand - coloration of
				drilling mud was gray.
75	9			(Cathead)
	18	0.97	13.2	
	23	S		
89				
				Per driller's observation - harder drilling at 82.75
				feet.
285.93				
				Hard Gray SHALE
Refusal 284.18				
65				Observation of washed cuttings indicated dark
				gray clay with shale fragments.
				Per driller's observation - drill rig was "standing
				up" at 84 feet and 700 psi of pull-down pressure.
				Driller installed casing to approximately 82 feet.
				Driller installed weighted tape to measure depth.
				The weight dropped to the bottom of the
				boring. The weight consisted of a metal file and
				an attempt was made to retrieve the weight w
				no success. Therefore, boring abandoned at
90				84.5 feet, and SPT N-Values not obtained.

Standard Penetration Test (N-value) - Blows per foot to drive 2-inch O.D. split spoon sampler 12-inches with a 140# Hammer falling 30-inches. Failure Type: B-Bulge; S-Shear; P-Penetrometer Test; E-Estimated
Qu - Unconfined Compressive Strength (t/sf)
W - water content (percentage of oven dry weight - %)
AASHTO Designations are estimated unless otherwise noted and determined by laboratory analysis

Bore Log

Sheet 1 of 3

Date 4/17-19/2002

PROJECT FAP 827
ROUTE IL Rt. 15/N Rt. 64
SECTION 12BR, 12Z-3
COUNTY Wabash - IL / Gibson - IN
STRUCTURE NO. Exist. 093-0014 Prop. 093-0021

DESCRIPTION Wabash River Crossing
LOCATION T1S, R12W, Section 26, SW 1/4
DRILL METHOD CME 55/HW & NW Casing/wash bore
HAMMER TYPE Automatic Hammer/Cathead

Drilled By Herriss Drilling
Checked By SCI

Boring No.: B-108
Station: 1035+73
Offset: 5' Right
Barge Deck El. 394.18
Mudline El. 369.93

Surface Water Elevation: 388.93
Groundwater Elevation
First Encountered: N/A
Upon Completion: N/A
After 24 Hours:N/A /Collapse:N/A
Mud Rotary Start Elevation: 360.93

Depth (ft) El.	N	Qu t/sf	W %	Description
				Soft River SEDIMENT - El. 369.93 to El. 366.93
				Due to the current, the top 3.0 feet of HW casing
				(4.5-inch O.D./4.0-inch I.D.) was pushed. An
				additional 5.0 feet of the HW casing was driven
				with the cathead.
366.93				SPT Sampler driven with cathead
				Washed cuttings indicate gravel and sand.
5				
360.93				
10	9			Medium Dense Gray and Brown Medium to Fine
	8	--		SAND, little Fine Gravel
	9			A-2
358.93				
	6			Dense Grey and Brown Medium to Fine SAND,
	14	--		trace Fine Gravel
	19			A-2
				(determined by laboratory analysis)
356.43				
	8			Dense Grey and Brown Medium to Fine SAND,
15	15	--		A-2
	20			
353.93				
	13			Dense Grey and Brown Fine SAND
	20	--		A-2
	27			
350.43				
28	13	--		Medium Dense Gray and Brown Coarse to Fine
	16			SAND, trace Fine Gravel
348.93				A-2
				Dense Grey and Brown Coarse to Fine SAND,
	12			trace Fine Gravel
18	--			

Depth (ft) El.	N	Qu t/sf	W %	Description
	24			
345.43				
	14			
25	18	--		Dense Gray and Brown Medium to Fine SAND,
	22			trace Fine Gravel
				A-2
	11			
	28	--		
	29			
	12			
30	16	--		
	21			
338.93				
	12			Dense Gray and Brown Medium to Fine SAND,
	19	--		A-2
	21			
336.43				
	16			Very Dense Gray and Brown Medium to Fine
35	23	--		SAND, trace Fine Gravel
	29			A-2
333.93				
				Very Dense Gray and Brown Coarse to Fine
	18			SAND, trace Fine Gravel
	29	--		
	43			A-2
	20			
40	26	--		
	35			
328.93				
				Very Dense Gray and Brown Medium to Fine
	14			SAND
	22	--		A-2
	35			
				(determined by laboratory analysis)
	21			
45	22	--		

Standard Penetration Test (N-value) - Blows per foot to drive 2-inch O.D. split spoon sampler 12-inches with a 140# Hammer falling 30-inches. Failure Type: B-Bulge; S-Shear; P-Penetrometer Test; E-Estimated
Qu - Unconfined Compressive Strength (t/sf)
W - water content (percentage of oven dry weight - %)
AASHTO Designations are estimated unless otherwise noted and determined by laboratory analysis

DESIGNED	CDF
CHECKED	ADD
DRAWN	CDF
CHECKED	ADD

benesch

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Job No. 3426

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 15/IN ROUTE 64
OVER WABASH RIVER PUBLIC WATERS
FAP 827 SECT 12Z-3, 12BR

SOIL BORING LOGS

SN: 093-0021 (IL)/9502700 (IN)
WABASH CO., IL.

STA. 1036+27
DATE: JUNE 15, 2007

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