

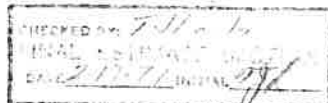
PILING RECORD

Job No. 1455 FAP No. RS-389(3)
 Bridge No. 5600 Pier (Bent) No. 2
 Type of Piling STEEL BEARING
 Size of Piling 14 HP 73
 Approved Pile Length 25.0

Job Name 4th River Bridge (Improvement)
 Weight of Hammer 5000 LBS
 Hammer (Brand & Model) VULCAN No. 1
 Energy Rating 15,000 FT LBS

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO	LENGTH OF PILE IN LEAD	LENGTH OF BUILD-UP	ALLOWANCE FOR SPLICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION LAST 30 BLOWS INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
4-3	3	25.6	0	0	1.8	1.8	23.2	17.7	0.5	3	120.6	
4-3	5	25.0	0	0	2.0	2.0	23.0	17.5	0.375	3	126.3	
4-3	7	25.0	0	0	1.8	1.8	23.2	17.7	1.0	3	100.0	
4-3	10	25.0	0	0	1.8	1.8	23.2	17.7	0.75	3	109.1	
4-3	2	25.0	0	0	0	0	25.0	19.5	0.875	3	104.3	
4-3	1	25.0	0	0	1.4	1.4	23.1	17.4	0.25	3	133.0	
4-3	4	25.0	0	0	1.2	1.2	23.8	18.3	0.25	3	133.0	
4-3	6	25.0	0	0	1.0	1.0	24.0	18.5	0.625	3	114.3	
4-3	8	25.0	0	0	0.2	0.2	24.8	19.3	0.625	3	114.3	
4-3	9	40.1	0	0			14.7	25.3				Test Pile
Total												
		225.0	0	0	11.4	1.4	212.3					



Inspector: H.C. Hawkes
 Resident Engineer: M. J. M. M. M.

ORIGINAL

TEST PILE RECORD

Job 1455 FAP K-384(2) Type & Size Piling 14HP73 Steel Pipe Pile
Job Name 14th Street Bridge Street (S.W. 14th St.) Weight of Hammer or Ram 5000 lbs
Bridge No. 5400 Pier (Bent) No. 2 Hammer (Brand & Model) Jordan No. 1

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR EPLICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (ING PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
4-3-75	4	40.0	0	0	0	14.7	25.3	5.3	34.7		60	1500

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
11-13	0	3.0	2.0"	7.1
13-19	16		1.0"	12.2
19-20	49		0.24"	44.1
20-21	340		0.035"	111.1
21-21.75	220		0.001"	148.5
DRIVEN TO REFUSAL				

TEST PILE DATA

Elev. Top of Driven Pile 40.11
Elev. Tip of Pile 29.1
Plan Elev. Top of Pile 145.2
Elev. Natural Ground 35.50
Elev. Bottom of Footing 35.50
Elev. Counting Board 35.50

Bent No. WING 5 S TALL Recommended length 15

Submitted By:

McFarlane
RESIDENT ENGINEER

Recommended:

David Mann
DISTRICT ENGINEER

APPROVED:

[Signature]
ASST. CONSTR. ENGINEER

Constr. ~~RECORD~~ ENGINEER'S COPY

Not on

798-76R

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

FT TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRA- TION PER BLOW	BEARING IN TONS
17-18	6	3.0	2.0"	7.1
18-19	12	}	1.0"	13.6
19-20	49		0.24"	48.1
20-21	340		0.035"	111.1
21-21 3/4	220		0.001"	148.5
DRIVEN TO REFUSAL				

2

APPROVED
[Signature]
ASST. CONSTR. ENGINEER

ORIGINAL

55

FAP RS-389(3)

Type & Size Filing 100-13 Steel

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAV)	LENGTH OF CUT OFF (NO PAV)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
5-17-75	12	30.0	0	0	0	2.4	26.1	5.5	20.6	125 PSI	60	1500

FT. TO FT.	BLOWS PER FOOT	AVE DROP IN FEET	PENETRA- TION PER BLOW	BEARING IN TONS
0-21.7	—	3.0		
21.7-24.75	—	3.0	0	150.0
DRIVEN TO REFUSAL				

TEST PILE DATA	
Elev. Top of Driven Pile	332.34
Elev. Tip of Pile	205.24
Min Elev. Top of Pile	329.50
Elev. Natural Ground	314.00
Elev. Bottom of Footing	328.52
Elev. Counting Board	325.11

Bolt No.	Recommended Length
3	2.6

Submitted By: mc/eng
RESIDENT ENGINEER

Recommended: Paul Moon
DISTRICT ENGINEER

APPROVED: 
ASST. CONSTR. ENGINEER

10.157

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRA TION PER BLOW	HEADING IN TONS	TEST PRE DATA
0-21.7	—	3.0	—	—	Elev. Top of Driven Pile 333.34
21.7-21.75	—	3.0	0	150.0	Elev. Tip of Pile 303.34
DRIVEN TO REFUSAL					Min Elev. Top of Pile 329.50
					Elev. Natural Ground 324.00
					Elev. Bottom of Footing 328.50
					Elev. Cauting Board 325.11
					Bent No. Recommended Length
					3 26
					Submitted By: <i>McFarland</i> RESIDENT ENGINEER
					Recommended _____
					DISTRICT ENGINEER
					APPROVED: <i>[Signature]</i>

CONSTRUCTION ENGINEER'S

Submitted By:

អ្នកបោះឆ្នោត

APPROVED

01-27-91 11:11 AM

4321 CONSER. ENGINE.

PILING RECORD

Job No.	1455	FAP No.	FS 309(3)	Job Name	100' Deep Dr. 11/28/88
Bridge No.	5600	Pier (Bent) No.	2	Weight of Hammer	5000 lb.
Type of Piling	STEEL			Hammer (Brand & Model)	W. I. Vulcan
Size of Piling	18" 14' 3"			Energy Rating	15000 ft. lbs.
Approved Pile Length					

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEAD	LENGTH OF BUILD-UP	ALLOWANCE FOR SP-LICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION LAST 20 BLT'S INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY TONS	REMARKS
12-16-75	3	50.2	0	0	0	20.4	29.8	20.3	.250	3	133.0	
12-16	4	35.5	0	0	0	4.1	30.9	25.4	0	3	150.0	REFUSAL
12-16	5	50.2	0	0	0	20.1	30.1	24.6	.250	3	133.0	
12-16	7	25.0	0	0	0	4.5	30.5	25.0	0	3	150.0	REFUSAL
12-16	9	35.4	0	0	0	4.8	30.6	25.1	.125	3	141.0	
12-16	10	35.3	0	0	0	4.7	30.6	25.1	.250	3	133.0	
12-17	1	37.5	0	0	0	8.0	29.5	24.0	.250	3	133.0	
12-17	6	40.3	0	0	0	11.5	28.8	23.3	.125	3	141.0	
12-17	8	39.4	0	0	0	10.4	29.0	23.5	.250	3	133.0	
12-16	2	50.3	0	0	1.8	18.3	30.2	24.7				Test Pile
Total		408.6 358.3	0	0	1.8	106.8 88.5	306.0 268.8					

Total

CHECKED BY: *TJ Lanker*
FINAL ESTIMATE SECTION
DATE: *2-10-77* INITIAL: *TJL*

Inspector: Ronald W. House
SIGNATURE

Resident Engineer: C. W. McMillan
SIGNATURE

ORIGINAL

TEST PILE RECORD

Job 1455 FAP RS-38X(3) Type & Size Piling STEEL HP 14x73
 Job Name ARK RIVER BR. IMPROV. Weight of Hammer or Ram 5000 LBS
 Bridge No. 5600 Pier (Bent) No. 5 Hammer (Brand & Model) NO. 1 Vulcan

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STRAIN OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
12-16-75	2	50.3	0	0	0	20.1	30.2	5.5	24.7	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRA- TION PER BLOW	BEARING IN TONS
20-21	13	3	.923	14.7
21-22	10	1	1.200	11.5
22-23	13	1	.666	19.6
23-24	24		.500	25.0
24-25	13		.666	19.6
25-26	13		.923	14.7
26-27	15		.800	16.7
27-28	16		.750	17.6
28-29	20		.600	21.4
29-30	25		.480	25.9
30-31	31		.387	30.8
31-32	31		.387	30.8
32-33	37		.324	35.4
33-34	230		.052	98.7
34-34.3	285	3	.010	136.4

DRIVEN TO REFUSAL

TEST PILE DATA

Elev. Top of Driven Pile 345.56
 Elev. Tip of Pile 225.26
 Elev. Natural Ground 325.50
 Elev. Bottom of Footing 326.50
 Elev. Counting Board 329.59

Bent No. 5 Recommended Length 31

Submitted By:

P.W. McMillian
 RESIDENT ENGINEER

Recommended:

Don P. Morgan
 DISTRICT ENGINEER

APPROVED:

[Signature]
 DIST. CONSTN. ENGINEER

ORIGINAL

PILING RECORD

Job No. 1455 RFP No. 85-082(3)

Bridge No. 5600 Pier (Bent) No. 10

Type of Piling STEELSize of Piling HP 14 x 23

Approved File Length

Job Name Pre-Test, Pre-Test, Pre-Test

Weight of Hammer 5000 LBS

Hammer (Brand & Model) *Yesco 46*

Rating 15,000 15,000

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (AVG) LAST 30 BLOWS INCHES (DECIMALS)	STROKS FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
12-9-78	3	56.0	0	0	0	12.0	38.0	32.5	.250	3	133.3'	
12-9	5	50.0	0	0	0	12.0	38.0	32.5	.250	3	133.3'	
12-9	8	50.0	0	0	0	12.3	37.7	32.2	.125	3	141.2'	
12-9	7	50.0	0	0	0	12.4	37.6	32.1	.250	3	133.3'	
12-9	6	50.0	0	0	0	12.6	37.4	31.9	.375	3	126.3'	
12-9	4	50.0	0	0	0	12.6	37.4	31.9	.250	3	133.3'	
12-9	1	50.0	0	0	0	12.7	37.3	31.8	.325	3	126.3'	
12-9	2	50	0	0	0	12.2	37.8	32.2				Test Pile
Total		400.0 350.0	0	0	0	98.8 86.6	301.2 263.4					

Total

Inspector:

Resident Engineer:

CHECKED BY *T. Hunter*
FINAL ESTIMATE SECTION
DATE *2-10-77* INITIAL *TH*


ORIGINAL

TEST PILE RECORD

Job 1455 FAP RS-389(3) Type & Size Piling STEEL PIPE PILING
 Job Name APR. RIVER BR. IMPROV. Weight of Hammer or Ram 5000 LB.
 Bridge No. 51000 Pier (Bent) No. 6 Hammer (Brand & Model) WILSON

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO. PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR A.C. PRESSURE	BLOWS PER MINUTE	ENERGY DATING
12-9-75	2	500	0	0	0	12.2	37.8	5.5	32.3	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS	TEST PILE DATA	
22-23	12	3.0	.923	14.7	Elev. Top of Driven Pile	338.16
23-24	14		.857	15.2	Elev. Top of Pile	288.18
24-25	14		.857	15.2	Min. Elev. Top of Pile	226.00
25-26	12		1.000	13.6	Elev. Natural Ground	320.50
26-27	18		.667	19.6	Elev. Bottom of Footing	325.00
27-28	11		1.091	12.6	Elev. Counting Board	331.48
28-29	12		1.000	13.6		
29-30	13		.923	14.7		
30-31	9		1.333	10.5		
31-32	11		1.091	12.6		
32-33	8		1.500	9.4		
33-34	10		1.200	11.5		
34-35	10		1.200	11.5		
35-36	13		.923	14.7		
36-37	13		.923	14.7		
37-38	10		1.200	11.5		
38-39	11		1.091	12.6		
39-40	13		.923	14.7		
40-41	12		1.000	13.6		
41-42	21		0.571	22.4		
42-43	69		0.174	54.7		
43-43.5	291	3.0	0.021	124.0		
DRIVEN TO REFUSAL					Submitted By: <u>C.W. McMillan</u> RESIDENT ENGINEER Recommended: <u>Dan M. ...</u> DISTRICT ENGINEER APPROVED: <u>[Signature]</u> ASST. CONSTR. ENGINEER	

ORIGINAL

PILING RECORD

Job No. 1455 FAP No. R5-389(3)
 Bridge No. 5600 Pier (Bent) No. 7
 Type of Piling 54821
 Size of Piling H.P. 14x73
 Approved Pile Length 40'

Job Name Ark River Bridge
 Weight of Hammer 5000 LBS.
 Hammer (Brand & Model) No. 1 VMC 34
 Energy Rating 15000 Ft. Lbs.

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPLICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (AV. LAST 20 BLOWS) INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
12-2-75	1	50	0	0	0	10.6	59.4	33.9	.375	5	126.3	
12-2	3	50				10.6	39.4	33.9	.375		126.3	
12-2	4	50				10.3	59.7	34.2	.375		126.3	
12-2	5	50				10.4	59.6	34.1	.125		141.2	
12-2	6	50				10.2	39.8	34.3	.250		133.3	
12-2	7	50				10.0	40.0	34.5	.250		133.3	
12-2	8	50				10.0	40.0	34.5	.250		133.3	
12-2	9	50				10.3	39.7	34.2	.500		120.0	
12-2	10	50	0	0	0	10.0	40.0	34.5	.250	3	133.3	
12-2	2	50.2	0	0	0	10.0	40.2	34.7				Test Pile

Total

500.2
 450 0 0 0 102.4 397.8
 42.4 357.6

CHECKED BY: TJL
 FINAL ESTIMATE SECTION
 DATE 2-10-77 INITIAL TJL

Inspector:

Resident Engineer:

D.C. Hawkins
C.W. McMillan

ORIGINAL

TEST PILE RECORD

Job 1455 FAP RS-309(3) Type & Size Piling Steel HP 14x73
 Job Name Ark. River Br. & R. piers (2) at Ark. River Weight of Hammer or Ram 1000 LBS.
 Bridge No. 5600 Pile (Bent) No. 7 Hammer (Brand & Model) W. L. Pile 30

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM GRAB PRESSURE	BLOWS PER MINUTE	CRUSHING WEIGHT
12-2-75	2	50.2	0	0	0	10.0	40.2	5.5	34.7	125	60	11000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS	TEST PILE DATA	
28-29	14	3.0	.857	15.7	Elev. Top of Drive Pile	335.50
29-30	14		.857	15.7	Elev. Tip of Pile	283.80
30-31	12		1.000	13.6	Plan Elev. Top of Pile	325.50
31-32	13		.923	14.7	Elev. Natural Ground	320.00
32-33	12		1.000	13.6	Elev. Bottom of Footing	314.50
33-34	12		1.000	13.6	Elev. Coasting Board	313.00
34-35	14		.857	15.7	Bent No.	7
35-36	15		.800	16.7	Recommended length	40
36-37	18		.667	19.6		
37-38	18		.667	19.6		
38-39	19		.623	20.5		
39-40	22		.545	23.3		
40-41	23		.522	24.1		
41-42	25		.470	26.3		
42-43	26		.462	26.7	Submitted By:	CW. McMillan
43-44	30		.400	30.0		RESIDENT ENGINEER
44-45	31		.397	30.8	Recommended:	Daniel Moore
45-46	32		.375	31.6		DISTRICT ENGINEER
46-47	45		.267	40.9	APPROVED:	
47-47.75	634	3.0	.014	131.6		ASST. CONSTR. ENGINEER
Driven To Refusal						

ORIGINAL

PILING RECORD

Job No. 1455 FAP No. A-349(4)
Bridge No. 5600 Pier (Bank) No. 8
Type of Piling STEEL
Size of Piling HP 14x75
Approved Pile Length 44

Job Name	MR RIVER BLUES
Weight of Hammer	5000 LBS
Hammer (Brand & Model)	NDI VULCAN
Energy Rating	15,000 FT. LBS.

Approved File Length _____

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement.
Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (AV.) LAST 20 BLOWS INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
11-23	3	50.0	0	0	0	7.0	43.0	37.0	.250	3	133.3	
11-24	6	50.0	0	0	0	6.7	43.3	37.3	.125	3	141.2	
11-24	8	50.0	0	0	0	7.6	42.4	36.4	.250	3	133.3	
11-24	12	50.0	0	0	0	6.4	43.6	30.4	.125	3	191.2	
11-24	11	50.0	0	0	0	7.0	43.0	37.0	.375	3	126.3	
11-24	10	50.0	0	0	0	6.6	43.4	37.4	.125	3	141.2	
11-25	2	50.0	0	0	0	7.0	43.0	37.0	.250	3	133.3	
11-25	1	50.0	0	0	0	6.5	43.5	37.5	0	3	150.0	REFUSAL
11-25	5	50.0	0	0	0	7.0	43.0	37.0	.125	3	141.2	
11-25	9	50.0	0	0	0	6.6	43.4	37.4	.250	3	133.3	
11-25	7	50.0	0	0	0	6.5	43.5	37.5	.375	3	126.3	
11-24	4	50	0	0	.6	6.0	43.4	37.4				Test Pile
Total	6000 5500	0	0	0	.6	80.9 74.9	518.5					

Inspector:

Resident Engineer:

CHECKED BY: *TVL*
FINAL ESTIMATE SECTION
DATE: *2-10-77* INITIAL: *TVL*

ORIGINAL

TEST PILE RECORD

DEC - 1 1975

Job 1455 FAP PS-329(3) Type & Size Piling STEEL HP 14x73
 Job Name 1st. Drive Weight of Hammer or Ram 5000 LBS
 Bridge No. 5600 Pier (Bent) No. 8 Hammer (Brand & Model) No. 1 Vulcan

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
11-24-75	4	50.0	0	0	0	6.6	43.4	6.0	37.4	125	60	15000

FE. TO FT	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
24-25	27	3.0	.444	27.6
25-26	27		.444	27.6
26-27	28		.429	28.4
27-28	30		.400	30.0
28-29	28		.429	28.4
29-30	30		.400	30.0
30-31	27		.444	27.6
31-32	30		.400	30.0
32-33	25		.480	25.9
33-34	26		.400	30.6
34-35	30		.400	30.6
35-36	30		.400	30.0
36-37	32		.375	31.6
37-38	40		.300	37.5
38-39	41		.293	38.2
39-40	49		.245	43.5
40-41	56		.214	47.8
41-42	67		.179	53.8
42-43	77		.156	58.6
43-44	105		.114	70.1
44-44.5	275	3.0	.022	123.0

DRIVEN TO REFUSAL

TEST PILE DATA

Elev. Top of Driven Pile 233.08
 Elev. Top of Pile 287.08
 Elev. Natural Ground 226.50
 Elev. Bottom of Footing 220.50
 Elev. Counting Board 225.50

Bent No. 8 Recommended Length 44

Submitted By:

W. McMillan
 RESIDENT ENGINEER

Recommended:

Wm. H. H. H.
 DISTRICT ENGINEER

APPROVED:

[Signature]
 DIST. ENGR.

ORIGINAL

PILING RECORD

Job No. 1455 FAN No. 112 300 (5)

Bridge No. 5600 Proj. (Route) No. 10

Type of Piling SSize of Piling 14" x 14"

Approved Pile Length **24'**

Job Name: CHAIRS, 1000'S OF, CR. (1000'S OF)

Weight of Hammer..... 1000 2 1/2

Hammann (Brand & Alsdorf)

Energy Rating: 2500 BTU/hr.

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	FILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION IN LAST 20 BLOWS INCHES (DECIMAL)	STROKES PER FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
11-15-78	4	50	0	0	0	7.0	43.0	37.5	.250	3	133.3	
11-15	6	50	0	0	0	6.9	43.1	37.6	.325	3	126.3	
11-15	8	50	0	0	0	6.8	43.2	37.7	.375	3	126.3	
11-15	12	50	0	0	0	7.0	43.0	37.5	.375	3	126.3	
11-15	11	50	0	0	0	6.5	43.5	38.0	.250	3	133.3	
11-15	10	50	0	0	0	6.8	43.2	37.7	.375	3	126.3	
11-17	9	50	0	0	0	7.0	43.0	37.5	.375	3	126.3	
11-17	2	50	0	0	0	6.6	43.4	37.9	.250	3	133.3	
11-17	7	50	0	0	0	6.8	43.2	37.7	.250	3	133.3	
11-17	5	50	0	0	0	6.9	43.1	37.6	.125	3	141.2	
11-17	1	50	0	0	0	6.9	43.1	37.6	.250	3	133.3	
11-15	3	50.5	0	0	0	6.2	44.3	38.8				Test Pile
Total		600.5	0	0	0	81.4	519.1					
		550.0				75.2	474.8					

Total

CHECKED BY: TJL
FINAL ESTIMATE SECTION
DATE: 2-10-77 INITIAL: TJL

Inspector:

Resident Engineer

ORIGINAL

TEST PILE RECORD

NOV 25 1975

Job 14.55 FAP RS-389(3) Type & Size Piling STEEL HP 14x53
 Job Name ARK. RIVER BR. EXPOSED (UPPER) Weight of Hammer on Ram 10000 LBS
 Bridge No. 5600 Pier (Bent) No. 9 Hammer (Brand & Model) No. 1 Vulcan

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR A.C. PRESSURE	BLOWS PER MINUTE	ENERGY RATING
11-15-75	3	50.5	0	0	0	4.2	44.3	5.5	38.8	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
24-25	18	3.0	0.429	28.4
25-26	32		0.375	31.6
26-27	38		0.316	36.1
27-28	50		0.240	44.1
28-29	65		0.185	52.6
29-30	69		0.174	54.7
30-31	98		0.122	67.6
31-32	91		0.132	64.7
32-33	97		0.124	67.0
33-34	70		0.171	55.4
34-35	79		0.152	59.5
35-36	93		0.129	65.3
36-37	100		0.120	68.2
37-38	87		0.138	63.0
38-39	95		0.126	66.4
39-40	90		0.133	64.4
40-41	75		0.160	57.7
41-42	81		0.148	60.5
42-43	85		0.141	62.2
43-44	110		0.099	100.0
44-45	200		0.060	93.8
45-45.5	413	3.0	0.015	130.4

DRIVEN TO REFUSAL

TEST PILE DATA

Elev. Top of Driven Pile 332.65
 Elev. Tip of Pile 282.15
 Mean Elev. Top of Pile 326.50
 Elev. Natural Ground 321.00
 Elev. Bottom of Footing 325.50
 Elev. Counting Board 327.65

Bent No. 9 Recommended Length 44

Submitted By:

L.W. McMillan
 RESIDENT ENGINEER

Recommended:

David Moon
 DISTRICT ENGINEER

APPROVED:

[Signature]
 DISTRICT ENGINEER

ORIGINAL

PILING RECORD

Job No. 1455 PAP No. 85-589

Bridge No. 560 Alt. (B-1) No. 10

Type of Filing 5/24/21

Size of Piling 12 1/2 x 12 1/2

Approved Pile Length

Job No: H.R. RIVER & R. E. BROS.

Weight of Hammer 5000 143

Atterman: (Bond & Model) no. Vulcan

Import Rating: 5000 Lbs

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION LAST 10 BLOWS INCHES (ORIGINAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
11-8-75	1	50	0	0	0	8.9	41.7	35.6	.250	3	133.0	
11-8	2	50				8.1	41.9	36.4	0		150.0	Rejected
11-8	3	50				8.7	41.3	35.8	.125		141.2	
11-8	4	50				8.3	41.7	36.2	.375		126.3	
11-8	5	50				8.2	41.8	36.3	.375		126.3	
11-8	6	50				8.7	41.3	35.8	.250		133.0	
11-8	8	50				9.9	40.1	34.6	.375		126.3	
11-8	9	50				8.9	41.1	35.6	.500		120.0	
11-8	10	50	0	0	0	8.4	41.6	36.1	.375	3	126.3	
11-8	7	50	0	0	0	8.3	41.7	36.2				Test Pile
Total		500	0	0	0	86.4	413.6					
		460				78.1	371.9					

Total

CHECKED BY TJ Lake
FINAL ESTIMATE SECTION
DATE 2-10-77 INITIAL TJL

Inspector:

Resident Engineer:

ORIGINAL

TEST PILE RECORD

Job 1455 FAP RS-389(3) Type & Size Piling Steel HP 14x73
 Job Name Ark River Bridge, Harris, Clarksville Weight of Hammer or Ram 5000 lbs
 Bridge No. 2600 Pier (Bent) No. 10 Hammer (Brand & Model) No. 1 H/C 20

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAYS)	LENGTH OF CUT-OFF (NO PAYS)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
11-8-25	7	50	0	0	0	0.3	41.7	5.5	36.2	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
22-23	26	3	.461	26.7
23-24	27		.444	27.6
24-25	21		.429	28.4
25-26	22		.414	29.2
26-27	31		.387	30.2
27-28	31		.387	30.2
28-29	31		.387	30.2
29-30	37		.324	35.4
30-31	40		.300	37.5
31-32	38		.316	36.1
32-33	36		.333	34.6
33-34	33		.364	32.3
34-35	31		.387	30.2
35-36	38		.316	36.1
36-37	40		.300	37.5
37-38	36		.333	34.6
38-39	40		.300	37.5
39-40	40		.300	37.5
40-41	47		.255	42.3
41-42	182		.066	90.4
42-42.33	295	3	.014	131.6
Driven to Refusal				

TEST PILE DATA

Elev. Top of Driven Pile 233.82
 Elev. Top of Pile 283.82
 Plan Elev. Top of Pile 327.50
 Elev. Natural Ground 320.00
 Elev. Bottom of Footing 324.50
 Elev. Counting Board 326.15

Bent No. _____ Recommended Length _____

10 42

Submitted By:

C. W. McMillen
 RESIDENT ENGINEER

Recommended:

David Moore, Jr.
 DISTRICT ENGINEER

APPROVED:

[Signature]
 ASST. CONSTR. ENGINEER

148 9900

Job Name: K-R River Boat Hopper
Weight of Hammer: 5000 lbs
Hammer (Brand & Model): No. 1 JLCan
Energy Rating: 15000 ft-lbs

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (AV.) LAST 30 BLOWS INCHES (DECIMAL)	STROKS FEET	COMPLETED BEARING CAPACITY TONS	REMARKS
11-3-75	1	40	0	0	0	0	40	34.5	.500	3	120.0	
	3	40	0	0	0	0	40	34.5	.250		133.0	
	4	40	1.0	0	0	0	41	35.5	.375		126.3	
	5	40	0.5	0	0	0	40.5	35.0	.125		141.2	
11-4-75	6	40	0	0	0	0	40	34.5	.500		120.0	
	7	40	0	0	0	0	40	34.5	0		130.0	Refusal
	8	40	0	0	0	.8	39.2	33.7	.500	3	120.0	
11-3	2	40	2.0	1.5	0	0	43.5	36.5				Test Pile

CHECKED BY: *T. Shamber*
FINAL ESTIMATE SECTION
DATE *2-11-77* INITIAL *JS*

Inspector: E. D. Ferguson
Resident Engineer: C. W. McMillan

NOV 13 1975

TEST PILE RECORD

Job 1455 FAP RS-3893 Type & Size Piling Steel H 14 x 73
 Job Name Ark River Bridge (Clarksburg) Weight of Hammer or Ram 5000 lb
 Bridge No. 5400 Pier (Bent) No. 11 Hammer (Brand & Model) 1000 lb

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each (two) pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR A.C. PRESSURE	BLOWS PER MINUTE	ENERGY RATING
11-3-75	2	40	2.0	1.5	0	0	42.5	5.5	36.5	12.5	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
19-20	16	3	.750	12.6
20-21	19		.632	12.5
21-22	24		.500	15.0
22-23	26		.462	16.7
23-24	24		.463	16.7
24-25	36		.333	14.6
25-26	51		.235	14.8
26-27	53		.236	14.6
27-28	53		.236	14.6
28-29	45		.267	14.9
29-30	49		.245	13.5
30-31	50		.200	10.0
31-32	34		.162	17.3
32-33	163		.074	86.2
33-34	146		.048	101.4
34-35	328		.077	109.5
35-36	348		.034	111.9
36-37	164		.073	86.7
37-38	639		.018	127.1
38-38.68	640	3	.012	131.9

TEST PILE DATA

Elev. Top of Driven Pile 323.36
 Elev. Tip of Pile 323.36
 Elev. Top of Pile 323.36
 Elev. Natural Ground 320.40
 Elev. Bottom of Footing 323.00
 Elev. Capping Beam 323.43

Bent No. 11 Recommended Length 42'

Submitted By:

C.W. McMullin
 RESIDENT ENGINEER

Recommended:

Daniel Moore by Rem
 DISTRICT ENGINEER

APPROVED:

[Signature]
 ASST. CONSTR. ENGINEER

Driven To Refusal

ORIGINAL

PILING RECORD

Job No. 13-57 PAF No. 83-33 Job Name Ark River Bridge
 Bridge No. 5600 Pier (Bench) No. 14 Weight of Pile 1000 lbs.
 Type of Piling Steel Hammer (Brand & Model) No. 1 Vulcan
 Size of Piling 4" x 4" x 33' Energy Rating 16 lbs.
 Approved Pile Length _____

Piling should be numbered from right to left in pier. Start piling cut-off and build up length to nearest tenth of a foot by actual measurement.
 Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILDING	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (DAY)	LENGTH OF CUT-OFF (NO DAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION IN LAST 20 BLOWS INCHES (20 BLOWS)	STROKE FEET	COMPUTED BEARING CAPACITY TONS	REMARKS
10-17	1	50	0	0	0	12.3	37.7	31.7	.175	3	141.2	
10-17	2	50				12.3	37.8	31.8	.175		141.2	
10-17	3	50				12.4	37.6	31.6	0		150.0	Refusal
10-17	4	50				12.5	37.9	31.9	.125		141.2	
10-17	5	50				12.5	37.5	31.5	.175		126.3	
10-17	6	50				12.3	37.7	31.7	0		150.0	Refusal
10-17	7	50				12.6	37.9	31.9	.250		133.3	
10-17	8	50				12.6	37.4	31.4	.250		133.3	
10-17	9	50				12.3	37.7	31.7	.250		133.3	
10-17	10	50				12.4	37.6	31.6	.125		141.2	
10-17	12	50	0	0	0	12.6	37.4	31.6	.375	3	126.3	
10-16	11	50.2	0	0	3.4	9.2	37.6	31.6				Test Pile

Total 600.2
550 0 0 3.4 145.0 451.8
550 0 0 0 135.0 414.7

CHECKED BY: TJ Lawler
 FINAL ESTIMATE SECTION
 DATE 2-10-77 INITIAL TJR

Inspector: Ronald W. Hance
 Resident Engineer: C. W. McMillan

ORIGINAL

TEST PILE RECORD

Job 1455 FAP R5-389(3) Type & Size Piling Steel H-P 14 x 73
 Job Name Ark. River Bridge Apprs. Weight of Hammer or Ram 5,970 lbs.
 Bridge No. 5600 Pier (Bent) No. 14 Hammer (Brand & Model) Hoist Unit 200

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAYS)	LENGTH OF CUT OFF (ING PAYS)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
10-16-75	11	50.2	0	0	0	12.6	37.6	6	31.6	125	60	1000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
22-23	16	5	.250	17.63
23-24	17		.706	18.61
24-25	17		.706	18.61
25-26	21		.571	22.35
26-27	24		.500	25.00
27-28	27		.407	27.27
28-29	28		.429	28.41
29-30	27		.444	27.57
30-31	27		.444	27.57
31-32	28		.429	28.36
32-33	29		.414	29.18
33-34	35		.343	32.86
34-35	33		.364	32.33
35-36	40		.300	37.50
36-37	85		.141	62.24
37-38	72		.130	65.22
38-39	94		.128	65.79
39-40	112		.107	72.46
40-41	291		.041	106.31
41-41.42	342	3	.015	130.43
Driven To Refusal				

TEST PILE DATA

Elev. Top of Driven Pile 339.10
 Elev. Tip of Pile 282.90
 Elev. Tip of Pile 326.50
 Elev. Natural Ground 329.50
 Elev. Bottom of Footing 322.50
 Elev. Counting Board 330.52

Bent No. Recommended Length

14 38'

ARK. STATE HIGHWAY DEPT.
 DISTRICT NO. 1

OCT 22 1975

RECEIVED
 DISTRICT ENGINEER

Submitted By:

CW. McMillin
 DISTRICT ENGINEER

Recommended:

Daniel Moore
 DISTRICT ENGINEER

APPROVED:

Braker
 ASST. CONST. ENGINEER

ORIGINAL

10.107

Job Name Art. River & E. Apprs
Weight of Hammer 5000 Lbs
Hammer (Brand & Model) Max Kulan
Energy Rating 13000 Ft. lbs.

[illegible]

400.2				31.2	369.0
359	2	5	6	7.8	377.2

Inspector: Ronald House
Resident Engineer: C. W. McMillan

TEST PILE RECORD

Job 1455 FAP RS-327 (3) Type & Size Piling 21" x 42" HP 14 x 73
 Job Name Ark. River Br. S. Apprs. Weight of Hammer or Ram 5000 LBS.
 Bridge No. 5600 (Bent) No. 15 Hammer (Brand & Model) Not Val Can

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (FEET)	LENGTH OF CUT-OFF (INCHES)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
10-11-75	2	40.2	0	0	0	3.4	36.8	5.5	31.3	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
18-19	8	3.0	1.500	9.10
19-20	9		1.523	10.47
20-21	9		1.523	10.47
21-22	9		1.523	10.67
22-23	11		1.091	12.59
23-24	11		1.091	12.59
24-25	13		.923	14.66
25-26	15		.850	16.67
26-27	21		.571	22.35
27-28	27		.407	27.57
28-29	37		.324	35.31
29-30	35		.343	33.86
30-31	34		.353	33.11
31-32	37		.324	35.31
32-33	47		.255	42.75
33-34	51		.207	48.26
34-35	51		.207	48.66
35-36	76		.158	58.14
36-37	69		.174	54.74
37-38	95		.126	66.37
38-38.67	397	2.0	.020	25.00
Driven To Refusal				

TEST PILE DATA

Elev. Top of Driven Pile 328.90
 Elev. Top of Pile 328.70
 Plan Elev. Top of Pile 328.50
 Elev. Natural Ground 320.00
 Elev. Bottom of Footing 324.50
 Elev. Counting Board 327.87

Bent No. 15 Recommended Length 37

Submitted By: C.W. McMillen
 ARK. STATE HIGHWAY DEPT.
 DISTRICT NO. 8
 RECEIVED OCT 15 1975

Recommended: Daniel Moore by Lem
 RECEIVED
 RUSSELLVILLE, ARKANSAS
 DISTRICT ENGINEER

APPROVED:

[Signature]
 ASST. CONSTR. ENGINEER

ORIGINAL

12-167 4-2

Job Name ACQUISITION OF BLUE APPLES

Weight of Hammer 5.000 gms

Hammer (Brand & Model) 12 lb. 200

Energy Rating 15000 14

Figure 1. The effect of the concentration of the polymer on the gelation time of the epoxy resin.

SECRET

Total

Inspector: E. D. Ferguson

Resident Engineer: C. W. McMillan
SIGNATURE

TEST PILE RECORD

Job 1455 FAP RS-387(3) Type & Size Piling Steel HP-1473
 Job Name Ark. River B. Hwy Weight of Hammer or Ram 5000 lbs
 Bridge No. 5400 Pier (Bent) No. 16 Hammer (Brand & Model) Not Listed

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
10-6-75	7	40	0	0	0	6.3	537	5.5	282	125	60	18000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
16-17	17	3.0	.632	20.5
17-18	17		.632	20.5
18-19	19		.632	20.5
19-20	19		.632	20.5
20-21	20		.600	21.4
21-22	22		.552	24.1
22-23	27		.444	27.6
23-24	29		.400	30.0
24-25	32		.375	31.6
25-26	38		.316	36.1
26-27	46		.261	41.6
27-28	52		.231	45.3
28-29	62		.194	51.0
29-30	70		.171	55.4
30-31	95		.126	66.4
31-32	110		.100	71.8
32-33	125		.080	89.3
33-34	150		.063	108.7
34-34.75	320	3.0	.023	121.9

TEST PILE DATA

Elev. Top of Driven Pile 332.39
 Elev. Tip of Pile 296.50
 Elev. Natural Ground 326.00
 Elev. Bottom of Footing 316.00
 Elev. Counting Board 322.08

Bent No. _____ Recommended Length _____

16 34

Submitted By:

C.W. McMillian
 RESIDENT ENGINEER

Recommended:

David M. M...
 DISTRICT ENGINEER

APPROVED:

[Signature]
 ASST. CONSTR. ENGINEER

ARK. STATE HIGHWAY DEPT.
 DISTRICT NO. 8

OCT 9 1975

RECEIVED
 RUSSELLVILLE, ARKANSAS

ORIGINAL

PILING RECORD

Job No. 1455 PAF No. 20-20-1 Job Name San Francisco Bay Bridge
 Bridge No. 5600 Pier (Bent) No. 12 Weight of Hammer 20,000 lb
 Type of Piling Steel Hammer (Brand & Model) W. H. H. H. H. H.
 Size of Piling 42 in. dia. Energy Rating 15,000 ft. lbs.
 Approved Pile Length 38.7

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEAD	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (ALL LAST 20 BLOWS INCHES (DECIMAL))	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
10-1-78	10	50	0	0	0	11.3	38.7	33.2	.500	3	126.0	
10-1	7	50	0	0	0	10.6	39.4	33.9	.375	3	126.3	
10-1	5	50	0	0	0	11.4	28.6	33.1	.375	3	126.3	
10-1	3	50	0	0	0	11.9	28.1	32.6	.250	3	133.3	
10-1	2	50	0	0	0	12.3	27.7	32.2	0	3	150.0	Refused
10-1	1	50	0	0	0	12.7	37.3	31.8	.375	3	126.3	
10-1	4	50	0	0	0	11.9	38.1	32.6	.500	3	126.0	
10-1	6	50	0	0	0	11.7	38.3	32.8	.500	3	126.0	
10-2-78	8	50	0	0	0	11.2	38.8	33.3	.250	3	133.3	
10-1	9	50	0	0	60	6.0	38.0	32.5				Test Pile
Total		500.0	0	0	0	6.0	111.0	383.0				
		1500	0	0	0	0	105.0	245.0				

CHECKED BY: T. H. H. H. H.
 FINAL ESTIMATE SECTION
 DATE 2-10-77 INITIAL JH

Inspector: L. C. H. H. H.
 Resident Engineer: P. W. H. H. H.

OCT 7 1975

TEST PILE RECORD

Job 1455 FAP TS-389(3) Type & Size Piling RECEIVED
Job Name Ark. River Bridge Weight of Hammer or Ram 5000 LB.
Bridge No. 5600 Pier (Bent) No. 17 Hammer (Brand & Model) No. 3 Vulcan

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPLICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO-PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
10-1-75	7	50	0	0	0	12.0	38.0	5.5	32.5	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
21-21	22	3.0	.545	23.2
21-22	25		.480	25.9
22-23	26		.462	26.7
23-24	27		.444	27.6
24-25	28		.429	28.4
25-26	26		.462	26.7
26-27	28		.429	28.4
27-28	28		.429	28.4
28-29	31		.387	30.8
29-30	32		.364	32.3
30-31	38		.316	36.1
31-32	57		.211	48.2
32-33	66		.187	53.2
33-34	75		.160	57.2
34-35	108		.111	71.1
35-36	136		.088	79.8
36-37	207		.058	90.9
37-38	423		.028	117.2
38-39	565		.021	124.0
39-40	646		.019	126.1
40-40.67	623	3.0	.013	132.7

TEST PILE DATA

Elev. Top of Driven Pile 340.51
Elev. Tip of Pile 296.51
Plan Elev. Top of Pile 328.50
Elev. Natural Ground 323.20
Elev. Bottom of Footing 327.50
Elev. Counting Board 331.16

Bent No. 17 Recommended Length 38'

Submitted By:

C.W. McMullen
RESIDENT ENGINEER

Recommended:

David M. ...
DISTRICT ENGINEER

APPROVED:

[Signature]
ASST. CONGR. ENGINEER

DRIVEN TO REFUSAL

PILING RECORD

Job No. 1455 FAP No. RS-38X(3)
 Bridge No. 5600 Pier (Bent) No. 1B
 Type of Piling STEEL
 Size of Piling HP 14 x 73
 Approved Pile Length 39.5

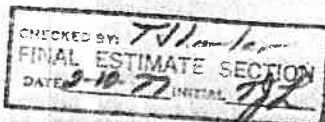
Job Name Ark River Br. & Affs. Railroad
 Weight of Hammer 5000 LBS
 Hammer (Brand & Model) No. 2 VULCAN
 Energy Rating 15,000 Ft. Lbs.

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPLICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (AV. LAST 20 BLOWS) INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY TONS	REMARKS
7-7-75	11	50	0	0	0	11.1	38.9	32.9	.625	3	114.3	
7-7	3	50	0	0	0	11.7	38.3	32.3	.750	3	109.1	
7-7	8	50	0	0	0	10.7	39.3	33.3	.500	3	120.0	
7-7	6	50	0	0	0	10.9	39.1	33.1	0	3	150.0	REFUSAL
7-7	4	50	0	0	0	14.6	35.4	29.4	.275	2	126.3	
7-7	10	50	0	0	0	10.8	39.2	33.2	0	3	150.0	REFUSAL
7-7	2	50	0	0	0	13.6	36.4	30.4	.375	3	126.3	
7-7	9	50	0	0	0	17.1	32.9	26.9	0	3	150.0	REFUSAL
7-7	7	50	0	0	0	16.2	33.8	27.8	.750	3	109.1	
7-7	5	50	0	0	0	14.3	35.7	29.7	.500	3	120.0	
7-7	1	50	0	0	0	16.2	33.8	27.8	.500	3	120.0	
7-7	12	50	0	0	4.0	7.0	39.0	33.0				Test Pile

Total

600.0
 550.0 0 0 4.0 152.2 441.8
 142.2 402.8



Inspector:

Resident Engineer:

L. C. Lawken
McJannet

ORIGINAL

TEST PILE RECORD

Job 432 FAP 11-300 Type & Size Piling 111 H.P. I-beam
 Job Name Wichita Falls Dam Weight of Hammer or Ram 10,000 lbs
 Bridge No. 7-7-75 Pier (Bent) No. 11 Hammer (Brand & Model) Wichita Falls

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT OFF (NO-PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
7-7-75	12	50.0	0	0	0	11.0	39.0	6.0	33.0	125	60	

FT. TO FT.	BLOWS PER FOOT	AVE DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
26-27	15	3.0	0.80	16.6
27-28	16		0.75	17.6
28-29	16		0.75	17.6
29-30	20		0.60	11.9
30-31	23		0.52	24.2
31-32	25		0.34	34.1
32-33	28		0.21	45.4
33-34	130		0.09	78.9
34-35	130		0.09	78.9
35-36	145		0.07	88.2
36-37	147		0.07	88.2
37-38	118		0.07	88.2
38-39	280		0.03	115.4
39-40	429	3.0	0.03	115.4

TEST PILE DATA

Elev. Top of Driven Pile
 Elev. Tip of Pile
 Elev. Top of Pile
 Elev. Natural Ground
 Elev. Bottom of Footing
 Elev. Coasting Board

Bent No.

Recommended Length

Submitted By:

Wichita Falls
 RESIDENT ENGINEER

Recommended:

Wichita Falls
 DISTRICT ENGINEER

APPROVED:

Wichita Falls
 ASST. CONST. ENGINEER

CONST.
 RESIDENT ENGINEER'S COPY

Not
 any

PILING RECORD

Job No. 1455 FAP No. RS-326 (3)
 Bridge No. 5400 Pier (Bent) No. 14
 Type of Piling S&C
 Size of Piling H.P. 14 x 73
 Approved Pile Length 39.7

Job Name A.R. Cooper, Sup't. (Cleveland)
 Weight of Hammer 3000 lbs.
 Hammer (Brand & Model) No. 1 VICKER
 Energy Rating 15000 ft.-lbs.

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPLICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION OF LAST 20 BLOW IN INCHES (DECIMAL)	STROKES PER	COMPUTED BEARING CAPACITY (TONS)	REMARKS
5-27-77	11	50	0	0	0	10.5	39.1	33.1	.500	3	120.0	
5-27	10	50	0	0	0	8.7	41.3	35.3	.375	3	126.0	
5-27	9	50	0	0	0	7.9	42.1	36.1	.500	3	120.0	
5-27	7	50	0	0	0	8.7	41.3	35.3	.375	3	126.3	
5-27	5	50	0	0	0	8.1	41.9	35.9	.125	3	141.0	
5-27	1	50	0	0	0	7.9	42.1	36.1	.850	3	133.0	
5-27	2	50	0	0	0	8.2	41.8	35.8	.125	3	141.0	
5-27	6	50	0	0	0	10.4	39.6	33.6	.125	3	141.0	
5-27	6	50	0	0	0	9.8	40.2	34.2	.125	3	141.0	
5-27	4	50	0	0	0	9.7	40.3	34.3	.250	3	133.0	
5-27	3	50	0	0	0	9.5	40.5	34.5	.250	3	133.0	
5-27	12	50	0	0	4.6	16.0	39.4	33.4				Test Pile
Total		600	0	0	4.6	105.8	489.6					
		550			2	99.8	450.2					

CHECKED BY TJ Lawler
 FINAL ESTIMATE SECTION
 DATE 2-10-77 INITIAL TJL

Inspector: E. D. Ferguson
 Resident Engineer: McJannet

ORIGINAL

TEST PILE RECORD

Job 1455 FAP RS-389(3) Type & Size Piling HP 14x73 STEEL
 Job Name Ark River Bridge Subst. (COLUMBIA) Weight of Hammer or Ram 5000 LB.
 Bridge No. 5600 Pier (Bent) No. 19 Hammer (Brand & Model) No. 1 Vulcan

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPlices	LENGTH OF CUT OFF (DAY)	LENGTH OF CUT OFF (NIGHT)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
5-27-75	12	50.0	0	0	0	12.6	39.4	6	39.4	15	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
17-18	5	3.0	2.4	6.0
18-19	7		1.71	8.3
19-20	8		1.5	10.0
20-21	8		1.5	10.0
21-22	8		1.5	10.0
22-23	10		1.2	11.5
23-24	12		1.0	13.6
24-25	12		1.0	13.6
25-26	15		0.8	16.7
26-27	17		0.71	18.5
27-28	17		0.63	20.5
28-29	26		0.46	26.8
29-30	29		0.41	29.4
30-31	32		0.32	35.7
31-32	45		0.26	41.7
32-33	170		0.07	83.2
33-34	260		0.046	102.7
34-34.2	125	3.0	0.0016	147.6
DRIVEN TO REFUSAL				

TEST PILE DATA

Elev. Top of Driven Pile 343.1
 Elev. Tip of Pile 293.1
 Elev. Top of Pile 332.5
 Elev. Natural Ground 326.5
 Elev. Bottom of Fagging 311.5
 Elev. Counting Board 311.5

Bent No.

Recommended Length

19

39

Submitted By:

McNamee
 RESIDENT ENGINEER

Recommended:

Paul Moon
 DISTRICT ENGINEER

APPROVED:

[Signature]
 ASST. CONSTR. ENGINEER

ORIGINAL

TEST PILE RECORD

Job 1455 FAP RS-389(3) Type & Size Piling HP14x73 STEEL
 Job Name ARK. RIVER BRIDGE SURST. (CLARKSVILLE) Weight of Hammer or Ram 5000 LBS.
 Bridge No. 5600 Pier (Bent) No. 19 Hammer (Brand & Model) No. 1 VULCAN

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF PILE	LENGTH OF CUT OFF END PILE	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
5-27-75	12	50.0	0	0	0	10.6	39.4	6	33.4	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS	TEST PILE DATA
17-18	5	3.0	2.4	6.0	Elev. Top of Drive Pile <u>293.1</u>
18-19	7		1.71	8.3	Elev. Tip of Pile <u>292.1</u>
19-20	8		1.5	10.0	Plan Elev. Top of Pile <u>332.5</u>
20-21	8		1.5	10.0	Elev. Natural Ground <u>326.5</u>
21-22	8		1.5	10.0	Elev. Bottom of Footing <u>331.5</u>
22-23	10		1.2	11.5	Elev. Counting Board <u>327.3</u>
23-24	12		1.0	13.6	
24-25	12		1.0	13.6	
25-26	15		0.8	16.7	
26-27	17		0.71	18.5	
27-28	19		0.63	20.5	
28-29	26		0.46	26.8	
29-30	29		0.41	29.4	
30-31	37		0.32	35.7	
31-32	45		0.26	41.7	
32-33	170		0.07	88.2	
33-34	260		0.046	102.7	
34-34.2	125	3.0	0.0014	147.6	

DRIVEN TO REFUSAL

Bent No. 19 Recommended Length 39

Submitted By: McFarney
 RESIDENT ENGINEER

Recommended:

RECEIVED
 MAY 30 1975

APPROVED: [Signature]
 ASST. CONSTR. ENGINEER

Figure 1. Schematic diagram of the experimental setup.

Job Name Spr. Riser Run RTCC (Capeville)

Weight of Hammer 5.50 lb

Hammer (Brand & Model) No. 2 Vulcan

Energy Rating 1.5000 41 lbs

41

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

Total

Inspector:

Resident Engineer:

ORIGINAL

3492

JUL 15 1975

TEST PILE RECORD

Job 1455 FAP ES-389(3) Type & Size Piling STEEL HP 14x73
Job Name ARK. RIVER BR. BRIDGE (CLARKSVILLE) Weight of Hammer or Ram 5000 LBS
Bridge No. 5200 Pier (Bent) No. 20 Hammer (Brand & Model) No. 3 Vulcan

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEASE	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAT)	LENGTH OF CUT OFF (NO PAT)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR A/R PRESSURE	BLOWS PER MINUTE	ENERGY RATING
7-10-75	2	50.0	0	0	0	9.2	40.8	5.5	35.3	125 PSI	60	15000

FT. TO FT	BLOWS PER FOOT	AVE DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
17-18	12	3.0	1.00	13.6
18-19	12		1.00	13.6
19-20	12		1.00	13.6
20-21	11		1.09	12.6
21-22	11		1.09	12.6
22-23	11		1.09	12.6
23-24	11		1.09	12.6
24-25	12		1.00	13.6
25-26	14		0.86	15.6
26-27	15		0.80	16.7
27-28	18		0.67	19.5
28-29	20		0.60	21.4
29-30	22		0.52	24.2
30-31	31		0.39	30.6
31-32	37		0.32	35.7
32-33	42		0.29	38.5
33-34	65		0.18	53.6
34-35	67		0.18	53.6
35-36	78		0.15	60.0
36-37	126		0.10	75.0
37-38	417		0.03	115.4
38-38.38	306	3.0	0.01	136.4

DRIVEN TO REFUSAL

TEST PILE DATA

Elev. Top of Driven Pile 341.66
Elev. Tip of Pile 291.66
Plan Elev. Top of Pile 322.50
Elev. Natural Ground 322.00
Elev. Bottom of Footing 336.50
Elev. Counting Board 322.99

Bent No. 20 Recommended Length 41.0

Submitted By


RESIDENT ENGINEER

Recommended By


DISTRICT ENGINEER

APPROVED:


ASST. CONSTR. ENGINEER

ORIGINAL

◎ 2002 年 1 月 1 日

Job Name: Mr. Ramesh B. Shree Datta

Weight of Hammer 5000 lbs

Hammer (Brand & Model) No 1 Vulcan

Energy Rating 15000 ft. LBS

Energy Rating 15000 ft. LBS

Record one pier per sheet.

Total

Inspector: Ronald House

Resident Engineer: McVern

ORIGINAL

F

TEST PILE RECORD

SHEET 1 OF 2

Job 14.55 FAP RS-389(3) Type & Size Piling HP 14x73 STEEL
 Job Name ARK. RIVER DR. (ATTS. CLARKSVILLE) Weight of Hammer or Ram 5000 LBS.
 Bridge No. 5600 Pier (Bent) No. 21 Hammer (Brand & Model) No. 2 VULCAN

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT OFF (NO. PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
6-6-75	2	50.6	0	0	0	9.9	40.7	5.5	35.2	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS	TEST PILE DATA
12-13	15	3.0	0.8	16.7	Elev. Top of Driven Pile 342.94
13-14	15		0.8	16.7	Elev. Tip of Pile 292.34
14-15	15		0.8	16.7	Plan Elev. Top of Pile 333.00
15-16	13		0.92	14.7	Elev. Natural Ground 327.50
16-17	14		0.86	15.6	Elev. Bottom of Footing 332.00
17-18	17		0.71	18.5	Elev. Counting Board 328.94
18-19	20		0.60	21.4	
19-20	20		0.60	21.4	
20-21	20		0.60	21.4	
21-22	20		0.60	21.4	
22-23	20		0.60	21.4	
23-24	20		0.60	21.4	
24-25	21		0.58	22.0	
25-26	22		0.55	23.1	
26-27	22		0.55	23.1	
27-28	22		0.55	23.1	
28-29	23		0.52	24.2	
29-30	28		0.43	28.3	
30-31	29		0.41	29.4	
31-32	42		0.29	38.5	
32-33	72		0.17	55.6	
33-34	130		0.09	78.9	
34-35	200	3.0	0.06	93.8	

Bent No. 21 Recommended Length 40

ORIGINAL

Copy 2 of 2

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

ORIGINAL

Submitted By:

Resident Engineer

Recommended:

Heil Mow
DISTRICT ENGINEER

APPROVED:

APPROVED: 
J. PARKER
SENIOR ENGINEER

PILING RECORD

Job No. 1435 FAP No. 62-3770
 Bridge No. 5600 No. (Bent) No. 2
 Type of Piling Steel
 Size of Piling H P 14 x 73
 Approved Pile Length 71'

Item Name: Hammer W. & B. Appra (Chattanooga)
Weight of Hammer: 5 lbs 10 1/2
Hammer (Brand & Model): No. 1 W/C 200
Energy Rating: 15000 ft lbs

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION LAST 30 BLOWS INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
6-25-75	2	50	0	0	0	9.4	40.6	35.1	.250	3	133.0	
6-25	5	60	0	0	0	12.4	37.6	32.1	.500	3	120.0	
6-25	7	60	0	0	0	11.0	39.0	33.5	.750	3	109.1	
6-25	10	50	0	0	0	9.5	40.5	35.0	.250	3	133.0	
6-26	9	50	0	0	0	7.5	42.5	37.0	.250	3	133.0	
6-26	1	50	0	0	0	10.3	39.7	34.2	1.000	3	100.0	
6-26	4	50	0	0	0	12.5	37.7	32.2	.750	3	109.0	
6-26	6	50	0	0	0	8.8	41.2	35.7	0	3	141.2	Refusal
6-26	8	50	0	0	0	9.4	40.6	35.1	.250	3	133.0	
6-25	3	50.2	0	0	1.2	8.2	40.8	35.3				Test Pile

Total

500.2			1.2	98.8	400.2
4500	0	0	1.2	98.8	359.8

CHECKED BY: TV Hunter
FINAL ESTIMATE SECTION
DATE: 2-10-77 INITIALS: TVH

Inspector:

Resident Engineer:

ORIGINAL

TEST PILE RECORD

JUN 27 1975

Job 1455 FAP RS-389 (3) Type & Size Piling HP 14 x 103 1/2
 Job Name Ark River Br Subst (Clark) Weight of Hammer or Ram 12000 lbs
 Bridge No. 5600 Pier (Bent) No. 22 Hammer (Brand & Model) No. 1 UNICEN

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (P.Y.)	LENGTH OF CUT OFF (NO P.Y.)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM USE AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
6-25-75	3	50.2	0	0	0	9.4	40.8	5.5	35.3	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
20-21	19	3.0	0.86	15.6
21-22	14		0.86	15.6
22-23	18		0.67	19.5
23-24	22		0.55	23.1
24-25	25		0.48	25.9
25-26	25		0.34	34.1
26-27	38		0.32	35.7
27-28	43		0.28	39.5
28-29	50		0.24	44.1
29-30	76		0.16	57.7
30-31	101		0.12	62.2
31-32	123		0.10	75.0
32-33	174		0.07	88.2
33-34	202		0.06	93.2
34-35	208		0.05	107.1
35-35.3	320		0.01	136.4

TEST PILE DATA

Elev. Top of Driven Pile 341.91
 Elev. Top of Pile 291.71
 Elev. Top of Pile 332.50
 Elev. Natural Ground 327.00
 Elev. Bottom of Footing 321.50
 Elev. Caving Board 323.01

Bent No. 22 Recommended Length 41

Submitted By:

McJannet
 REGISTERED ENGINEER

Recommended

Kenil Moore
 REGISTERED ENGINEER

APPROVED:

BParker
 ASST. CONSTR. ENGINEER

ORIGINAL

19. 10. 1971

SUB NORTH 62X 70X 6' 42200' 100000'

Weight of Hammer 5050 18

Norman (Brand & Model) sb. 2. Kinc.

Energy Rating 15,000 ft. lb.

100

Total

Inspector: D. C. H. [Signature]

Resident Engineer: [Signature]
SIGNATURE

ORIGINAL

Job	1455	FAP	DS 389(3)	Type & Size Piling	HP 14x73 STEEL
Job Name	Ark. River Br. SUELT (Cokeville)			Weight of Hammer or Ram	5000 LB
Bridge No.	5620	Pier (Bent) No.	23	Hammer (Brand & Model)	No. 1 Vulcan

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

[illegible][illegible]

Elev. Top of Drive Pile
Elev. Tip of Pile
Plan Elev. Top of Pile
Elev. Natural Ground
Elev. Bottom of Footing
Elev. Counting Board

১৯৮০ সালের ১৫ জানুয়ারি
 ১৯৮০ সালের ১৫ জানুয়ারি

Submitted By:

RESEARCH VOLUME 25

Recommended?

David M. Moore
CIVIL ENGINEER

APPROVED

APPROVED: 
ASST. CONSTR. ENGINEER

PAGE No. 1

ARK. STATE HIGHWAY DEPT. 18-100
DIVISION NO. 8

JUN 17 1975

TEST PILE RECORD

RECEIVED
BESSIEVILLE, ARKANSAS

Job 1455 FAP RS-389 (1) Type & Size Piling HP 14x73 STEEL
Job Name ARK. RIVER BRIDGE SUBST. (CLARKSBURG) Weight of Hammer or Run 5000 lbs
Bridge No. 5600 Pier (Bent) No. 23 Hammer (Brand & Model) No. 1 VULCAN

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SLICE	LENGTH OF CUT OFF (P.Y.)	LENGTH OF CUT OFF (NO P.Y.)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
6-12-75	9	50.2	0	0	0	8.9	41.3	6.0	35.3	125	60	15000

FT TO FT	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRA- TION PER BLOW (INCHES)	BEARING IN TONS
10-13	10	3.0	1.2	12.5
13-14	10		1.2	12.5
14-15	15		0.88	16.7
15-16	11		1.09	12.6
16-17	14		0.86	15.6
17-18	13		0.92	14.7
18-19	13		0.92	14.7
19-20	14		0.86	15.6
20-21	15		0.80	16.7
21-22	17		0.71	18.5
22-23	21		0.57	22.4
23-24	22		0.55	23.1
24-25	25		0.48	25.9
25-26	28		0.43	28.3
26-27	37		0.32	35.7
27-28	37		0.32	35.7
28-29	38		0.32	35.7
29-30	44		0.27	40.5
30-31	66		0.18	53.6
31-32	75		0.14	57.7
32-33	98		0.12	68.2
33-34	98		0.12	68.2
34-35	170	3.0	0.07	88.2

TEST PILE DATA

Elev. Top of Driven Pile 341.37
Elev. Tip of Pile 291.17
Plan Elev. Top of Pile 332.50
Elev. Natural Ground 326.50
Elev. Bottom of Footing 321.50
Elev. Counting Board 327.57

Bent No. 23 Recommended Length 41

Submitted By:

McJannet
RESIDENT ENGINEER

Recommended:

David Moore
DISTRICT ENGINEER

APPROVED:

[Signature]
ASST. CONSTR. ENGINEER

ORIGINAL

PILING RECORD

Job No. 1455 FAP No. 25-397(3)
 Bridge No. 5600 Pier (Bent) No. 20
 Type of Piling STEEL
 Size of Piling HP 14x33
 Approved Pile Length 40'

Job Name THE TOWER AT CHERRY CREEK
 Weight of Hammer 5000 LBS
 Hammer (Brand & Model) NO. 2 VIBRO
 Energy Rating 5000 ft. lbs.

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEAD	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF - PAY	LENGTH OF CUT-OFF - NO PAY	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION LAST 30 BLOW INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
7-5-72	12	50.0	0	0	0	10.9	39.1	28.6	.625	3	114.3	
7-15	8	50.0	0	0	0	12.9	37.1	27.6	.625	3	114.3	
7-15	6	50.0	0	0	0	12.5	37.5	28.0	.500	3	120.0	
7-15	4	50.3	0	0	0	12.4	37.9	28.4	.500	3	120.0	
7-15	3	50.0	0	0	0	10.5	39.5	30.0	.500	3	120.0	
7-16	10	50.5	0	0	0	10.3	40.2	30.7	0	3	150.0	REFUSAL
7-16	9	50.0	0	0	0	10.1	39.9	30.4	.250	3	133.3	
7-16	5	50.5	0	0	0	11.1	39.4	29.9	.375	3	126.3	
7-16	7	50.2	0	0	0	10.8	39.4	29.9	.500	3	120.0	
7-16	1	50.3	0	0	0	10.9	39.4	29.9	.625	3	114.3	
7-16	2	50.0	0	0	0	14.2	35.8	26.3	.750	3	109.1	
7-15	11	50.5	0	0	1.5	8.5	40.5	34.5				Test Pile

Total 6023 551.8 0' 0' 1.5 135.1 465.1
0 126.6 425.2

CHECKED BY: T. V. Laker
 FINAL ESTIMATE SECTION
 DATE: 2-11-72 INITIAL: TJL

Inspector: L. C. Lankford
 Resident Engineer: McJannet

ORIGINAL

TEST PILE RECORD

Job 1455 FAP RS-3823 Type & Size Piling STEEL HP 14x23
 Job Name PRK. TRUSS BR. APPRS. (Q. APPROVED) Weight of Hammer or Ram 5000 LBS.
 Bridge No. 5600 Pier (Bent) No. 24 Hammer (Brand & Model) No. 2 VULCAN

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
7-15-75	11	50.5	0	0	0	10.0	40.5	6.0	34.5	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
19-20	20	3.0	0.60	21.4
20-21	20		0.60	21.4
21-22	19		0.63	20.5
22-23	21		0.57	22.4
23-24	21		0.57	22.4
24-25	23		0.52	24.2
25-26	23		0.52	24.2
26-27	24		0.46	26.8
27-28	33		0.36	32.4
28-29	49		0.24	44.1
29-30	95		0.13	65.2
30-31	93		0.13	65.2
31-32	100		0.07	88.2
32-33	178		0.07	88.2
33-34	165		0.07	88.2
34-35	510		0.02	125.0
35-35.33	260	3.0	0.015	130.4

TEST PILE DATA

Elev. Top of Driven Pile 342.52
 Elev. Tip of Pile 292.02
 Elev. Top of Pile 332.0
 Elev. Natural Ground 326.50
 Elev. Bottom of Footing 337.50
 Elev. Counting Board 327.32

Bent No. 24 Recommended Length 40

Submitted By:

M. Young
 RESIDENT ENGINEER

Recommended:

David M. Young
 DISTRICT ENGINEER

APPROVED:

[Signature]
 ASST. CONSTR. ENGINEER

ORIGINAL

1982-1983

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pile per sheet.

Total

CHECKED BY: *T. Shanker*
FINAL ESTIMATE SECTION
DATE: *2-10-77* INITIAL: *JS*

Resident Engineer:

ORIGINAL

DL 281975

TEST PILE RECORD

RECEIVED
RUSSELLVILLE, ARKANSAS

Job 1455 FAP RS-389(3) Type & Size Piling STEEL HP 14x73
Job Name ARK. River Dr. & Bridge (Bent No. 25) Weight of Hammer or Ram 5000 LB
Bridge No. 5600 Pier (Bent) No. 25 Hammer (Brand & Model) No. 2 VULCAN

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (ING-PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
7-21-75	3	50.0	0	0	0	9.4	40.6	5.5	35.1	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
15-16	10	3	1.20	11.5
16-17	11	1	1.09	12.6
17-18	11	1	1.09	12.6
18-19	11	1	1.09	12.6
19-20	12	1	1.00	13.6
20-21	13	1	0.92	14.7
21-22	14	1	0.86	15.6
22-23	18	1	0.67	19.5
23-24	18	1	0.67	19.5
24-25	20	1	0.60	21.4
25-26	21	1	0.57	22.4
26-27	24	1	0.50	25.0
27-28	25	1	0.48	25.9
28-29	29	1	0.41	29.4
29-30	40	1	0.30	37.5
30-31	40	1	0.30	37.5
31-32	38	1	0.32	35.7
32-33	34	1	0.35	33.3
33-34	37	1	0.32	35.7
34-35	46	1	0.26	41.7
35-36	110	1	0.11	91.4
36-36.50	269	3	0.02	125.0
DRIVEN TO REFUSAL				

TEST PILE DATA

Elev. Top of Driven Pile 341.94
Elev. Tip of Pile 291.94
Plan Elev. Top of Pile 232.50
Elev. Natural Ground 327.00
Elev. Bottom of Footing 336.50
Elev. Counting Board 328.64

Bent No. 25 Recommended Length 41

Submitted By:

McFarlane
RESIDENT ENGINEER

Recommended:

Paul Moon
DISTRICT ENGINEER

APPROVED:

Brinker
ASST. CONSTR. ENGINEER

ORIGINAL

PILING RECORD

Job No. 1455 FAP No. RS-387(3) Job Name M-K River Br. Rpps. (Chick)
 Bridge No. 5600 Pier (Abut.) No. 26 Weight of Hammer 5000 lbs
 Type of Piling Steel Hammer (Brand & Model) No. 1 Vulcan
 Size of Piling HP 14x73 Energy Rating 1500 ft. lbs
 Approved Pile Length 40

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (AP- LAST 20 BLOWS) INCHES (DECIMAL)	STROKES PER FT	COMPUTED BEARING CAPACITY (TONS)	REMARKS
7-24-73	3	50	0	0	0	9.9	40.1	34.6	.125	3	141.2	✓
7-24	5	50				10.3	39.7	34.2	.375		126.3	✓
7-24	8	50.3				10.5	39.6	34.3	.250		133.3	✓
7-24	7	50.2				10.1	40.1	34.6	.125		141.2	✓
7-24	1	50				10.0	40.0	34.5	.375		126.3	✓
7-24	4	50				9.8	40.2	34.7	.250		133.3	✓
7-24	6	50	0	0	0	10.6	39.4	33.9	0	3	150	Refusal ✓
7-24	2	50.2	0	0	1.1	8.2	40.9	35.4				Test Pile

Total 400.7 350.5 0 0 1.1 79.4 320.2
 71.2 279.3

CHECKED BY: TJ Lawler
 FINAL ESTIMATE SECTION
 DATE 2-10-77 INITIAL TJL

Inspector: E.D. Ferguson
 Resident Engineer: McJannet
 SIGNATURE

ORIGINAL

JUL 28 1975

TEST PILE RECORD

Job 1455 FAP RS-389(8)
Job Name Ark River Br. S. R.F.P.S.
Bridge No. 5600 Pier (Bent) No. 26

Type & Size Piling 4" x 73
Weight of Hammer or Ram 5000 lbs
Hammer (Brand & Model) W. L. L. Co.

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
7-24-75	2	50.2	0	0	0	0.3	40.9	5.5	35.4	125	60	3000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
14-15	12	3	1.0	13.6
15-16	17		0.71	21.1
16-17	15		0.80	16.7
17-18	14		0.86	15.6
18-19	15		0.80	16.7
19-20	17		0.71	18.5
20-21	17		0.71	18.5
21-22	18		0.67	19.5
22-23	22		0.55	23.1
23-24	23		0.48	25.9
24-25	28		0.43	28.3
25-26	34		0.35	38.3
26-27	34		0.35	38.3
27-28	33		0.36	32.6
28-29	32		0.38	31.2
29-30	35		0.34	34.1
30-31	39		0.31	36.6
31-32	42		0.29	38.5
32-33	39		0.31	36.6
33-34	51		0.24	44.1
34-35	62		0.19	51.7
35-36	450	3	0.03	115.4

Driven to Refusal

TEST PILE DATA

Elev. Top of Drive Pile 342.80
Elev. Tip of Pile 292.10
Max Elev. Top of Pile 333.00
Elev. Natural Ground 327.50
Elev. Bottom of Piling 329.00
Elev. Casing Head 328.10

Bent No. 26 Recommended Length

40

Submitted By:

McSpence
DISTRICT ENGINEER

Recommended:

David Moore
DISTRICT ENGINEER

APPROVED:

Frank
ASST. CONSTR. ENGINEER

ORIGINAL

PILING RECORD

Job No. 1455 FAP No. RS-387(3)

Job Name Aviz. River Bridge (Glenview, Ill.)

Bridge No. 5600 Plan (Bent) No. 27

Weight of Hammer 5000 lbs

Type of Piling S/C

Hammer (Brand & Model) No. 1

Size of Piling H. P. 14 x 13

Energy Rating 15000 ft. lbs

Approved Pile Length 33'

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAV)	LENGTH OF CUT-OFF (NO PAV)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION IN LAST 30 BLOWS INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
7-30-70	10	40	0	0	0	7.6	32.4	26.9	.175	3	141.2	
7-30	7	40				9.1	30.9	25.4	.375		126.3	
7-30	5	40				7.7	32.3	26.8	.250		133.3	
7-31	3	40				7.2	32.8	27.3	.625		114.3	
7-31	2	40				6.7	33.3	27.8	.500		120.0	
7-31	1	40				7.7	32.3	26.8	.375		126.3	
7-31	4	40				7.0	33.0	27.5	.250		133.3	
7-31	6	40				7.0	33.0	27.6	.250		133.3	
7-31	8	40	0	0	0	7.0	33.0	27.5	.625	3	114.3	
7-30	9	40.2	0	0	2.0	5.2	33.0	27.5				Test Pile

Total 400.2 360 0 0 2.0 12.2 326.0 670 292.0

CHECKED BY T. J. Lander
FINAL ESTIMATE SECTION
DATE 2-10-77 INITIAL TJL

Inspector: E. D. Ferguson

Resident Engineer: [Signature]
SIGNATURE

ORIGINAL

TEST PILE RECORD

AUG - 51975

Job 1455 FAP RS-389(3)
Job Name Ark. River 2nd Repairs
Bridge No. 5600 Pier (Bent) No. 27

Type & Size Piling Steel H Pile
Weight of Hammer or Ram 3000 lbs.
Hammer (Brand & Model) No. 1 VMC 20

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAYS)	LENGTH OF CUT OF END PAYS	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
7-30-75	9	40.2	0	0	0	7.2	33.0	5.5	22.5	125	60	10000

FT. TO FT.	BLOWS PER FOOT	AVE DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
14-15	8	3	1.50	9.2
15-16	6		2.00	7.1
16-17	10		1.20	11.5
17-18	10		1.20	11.5
18-19	10		1.20	11.5
19-20	13		0.92	14.7
20-21	12		0.67	19.5
21-22	20		0.60	21.4
22-23	24		0.41	29.4
23-24	22		0.33	34.9
24-25	21		0.24	44.1
25-26	23		0.21	48.4
26-27	25		0.24	44.1
27-28	25		0.12	68.2
28-29	118		0.10	75.0
29-30	27		0.08	100.0
30-30.5	255	2	0.001	148.5

TEST PILE DATA

Elev. Top of Driven Pile 332.10
Elev. Tip of Pile 292.50
Plan Elev. Top of Pile 315.50
Elev. Natural Ground 320.00
Elev. Bottom of Footing 314.50
Elev. Counting Board 322.90

Bent No. 27 Recommended Length 33

Submitted By:

McPerry
RESIDENT ENGINEER

Recommended:

David Moore
DISTRICT ENGINEER

APPROVED:

Robert Parker
ASST. CONSTR. ENGINEER

RECEIVED

AUG 6 1975

CONSTRUCTION DIVISION
A Division of the Ark. Highway Dept.

ORIGINAL

PILING RECORD

Job No. 1455 FAP No. 75-589(2) Job Name San Diego Harbor
 Bridge No. 5600 Pier (Bent) No. 28 Weight of Hammer 5000 LBS
 Type of Piling PIPE Hammer (Brand & Model) W.D. & H.O. W.
 Size of Piling 14" x 73 Energy Rating 15,000 FT LBS
 Approved Pile Length 40'

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement.
 Record one pier per sheet.

DATE	PILE NO	LENGTH OF PILE IN LEAD	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION IN LAST 50 BLOWS INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
	B-23510	50.0	0	0	0	10.8	39.2	29.7	.375	3	126.3	
	B-2	50.0	0	0	0	10.6	39.4	29.9	.250	3	133.3	
	B-4	50.0	0	0	0	11.1	38.9	29.4	.125	3	141.2	
	B-4	50.0	0	0	0	11.2	38.8	29.3	.375	3	126.3	
	B-4	50.0	0	0	0	10.3	29.7	30.2	.375	3	126.3	
	B-4	50.0	0	0	0	9.8	40.2	30.7	.375	3	126.3	
	B-4	50.0	0	0	0	10.6	29.4	29.9	.250	3	133.3	
	B-4	50.0	0	0	0	10.1	39.9	30.4	.500	3	120.0	
	B-4	50.0	0	0	0	10.2	39.8	30.3	.375	3	126.3	
	B-4	50.0	0	0	0	12.7	37.3	27.8	.250	3	133.3	
	B-4	50.0	0	0	0	11.0	39.0	29.5	.500	3	120.0	
	B-2	50.3	0	0	2.8	8.3	39.2	29.7				Test Pile

Total 600.3
550.0 0 0 2.8 126.7 470.8
484 484

CHECKED BY: TJ Lawler
 FINAL ESTIMATE SECTION
 DATE 2-11-77 INITIAL TJL

Inspector: A.C. Lawler
 Resident Engineer: McYoung

ORIGINAL

AUG - 6 1975

TEST PILE RECORD

Job 1455 FAP RS-389(3) Type & Size Piling Steel H P 14x55
Job Name Ark. River Exp. Riprap Weight of Hammer or Ram 5000 lbs
Bridge No. 5600 Pier (Bent) No. 28 Hammer (Brand & Model) No. 1 Willcox

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
8-2-75	11	50.3	0	0	0	11.1	39.2	9.5	27.7	135	60	1200

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRA TION PER BLOW	BEARING IN TONS
16-17	15	3	0.80	16.7
17-18	15	}	0.80	16.7
18-19	14		0.86	15.6
19-20	16		0.75	17.6
20-21	20		0.60	21.4
21-22	22		0.55	23.1
22-23	23		0.52	24.2
23-24	27		0.44	27.9
24-25	31		0.39	30.6
25-26	33		0.36	32.6
26-27	34		0.35	33.3
27-28	37		0.32	35.7
28-29	38		0.32	35.7
29-30	32		0.33	34.9
30-31	43		0.28	39.5
31-32	55		0.22	46.9
32-33	62	0.19	51.2	
33-34	66	0.18	53.6	
34-35	105	0.11	71.4	
35-36	141	0.09	78.9	
36-37	195	0.06	93.8	
37-37.6	266	3	0.03	115.4

Driven To Refusal

Driven To Refusal

TEST PILE DATA

Elev. Top of Drives Pile 342.56
Elev. Tip of Pile 295.26
Min Elev. Top of Pile 332.50
Elev. Natural Ground 375.00
Elev. Bottom of Footing 321.50
Elev. Counting Board 320.86

Bent No. 28 Recommended Length 40.0

Submitted By:

McPherson
RESIDENT ENGINEER

Recommended:

David M. ...
DISTRICT ENGINEER

APPROVED:

[Signature]
DIST. CONSTR. ENGINEER

PILING RECORD

Job No. 1455 FAP No. 25-289(2)
 Bridge No. 5600 Pier (Bent) No. 29
 Type of Piling Steel
 Size of Piling HF 14x33
 Approved Pile Length 40.0'

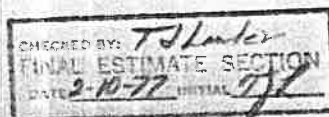
Job Name Red River Br. Hoppers
 Weight of Hammer 5000 LBS
 Hammer (Brand & Model) No. 1 WILCOX
 Energy Rating 15000 FT. LBS.

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement.
 Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEAD	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION AT LAST 20 BLOWS INCHES (DECIMAL)	STROKES FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
8-9-75	9	40.0	0	0	0	0.4	39.6	32.6	.500	3	120.0	
8-9	5	40.0	0	0	0	0.4	39.6	33.6	.250	3	133.3	
8-9	1	40.0	0	0	0	0.4	39.6	33.6	.500	3	120.0	
8-9	12	40.0	0	0	0	0.1	39.9	33.9	.250	3	133.3	
8-9	8	40.0	0	0	0	0	40.0	34.0	.500	3	120.0	
8-9	6	40.0	0	0	0	0	40.0	34.0	.500	3	120.0	
8-9	4	40.0	0	0	0	0	40.0	34.0	.500	3	120.0	
8-9	3	40.0	0	0	0	0.1	39.9	33.9	.125	3	141.2	
8-9	11	40.0	0	0	0	0.2	39.7	33.7	.125	3	141.2	
8-9	10	40.0	0	0	0	0	40.0	34.0	.500	3	120.0	
8-9	2	40.0	0	0	0	0.7	39.3	33.3	.250	3	133.3	
8-9	7	40.3	0	0	0.3	0	40.0	34.0				Test Pile

Total

480.9
 440.6 0 0 0.3 2.4 471.2
 438.2



ORIGINAL

Inspector: A.C. [Signature]
 Resident Engineer: [Signature]

F

ARK. STATE HIGHWAY DEPT.
DISTRICT NO. 2

TEST PILE RECORD

AUG 15 1975

Job 1455 FAP 25-389(3) Type & Size Piling STEEL HP 14X73
 Job Name ARK RIVER BR. 2 APP. (CLARKSVILLE) Weight of Hammer or Rammer 14000
 Bridge No. 5600 Pier (Bent) No. 29 Hammer (Brand & Model) No. 1 Vulcan

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF PAV.	LENGTH OF CUT OFF (NO PAV.)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
8-9-75	1	40.3	0	0	0	0.3	40.0	6.0	34.0	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS	TEST PILE DATA	
26-27	24	3.0	0.5	25	Elev. Top of Driven Pile	332.82
27-28	21		0.6	21	Elev. Tip of Pile	342.52
28-29	22		0.5	25	Pile Elev. Top of Pile	332.50
29-30	21		0.5	26	Elev. Natural Ground	326.50
30-31	19		0.4	29	Elev. Bottom of Piling	341.50
31-32	42		0.29	39	Elev. Counting Board	330.72
32-33	43		0.25	43		
33-34	60		0.2	50	Bent No.	Recommended Length
34-35	72		0.16	56	29	40.0
35-36	112		0.11	72		
36-37	108		0.08	85		
37-38	200		0.04	106		
38-39	240		0.01	136		
PILING TO REFUSAL					Submitted By:	<i>McFarlane</i>
					Recommended:	<i>Don't Moon</i>
					APPROVED:	<i>[Signature]</i>

ORIGINAL

PILING RECORD

Job No. 1455 FAP No. RS-229 (3)
 Bridge No. 5600 Pier (Bent) No. 30
 Type of Piling Steel
 Size of Piling HP 14 X 73
 Approved Pile Length 38'

Job Name A. E. River B. Tappes (Clarksville)
 Weight of Hammer 5000 lbs
 Hammer (Brand & Model) No. 1 Vulcan
 Energy Rating 15000 ft lbs

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (AV. LAST 20 BLOWS INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
8-6-75	B	40	0	0	0	1.6	38.6	33.1	.250	3	133.3	
8-6	6	40	0	0	0	1.8	38.2	32.7	.250		133.3	
8-6	4	40	0	0	0	1.7	38.3	32.8	.125		141.2	
8-6	1	40	0	0	0	1.5	38.7	33.2	.375		126.3	
8-6	2	40	0	0	0	0.8	39.2	33.7	.375		126.3	
8-6	10	40	0	0	0	0.7	39.3	33.8	.500		120.0	
8-6	7	40	0	0	0	1.1	38.9	33.4	.250		133.3	
8-6	5	40	0	0	0	0.8	39.2	33.7	.250		133.3	
8-6	3	40	0	0	0	1.1	38.9	33.4	.500	3	120.0	
8-6	9	40.2	0	0	0.6	1.2	38.4	29.4				Test Pile
Total												

CHECKED BY: T. J. Lawler
 FINAL ESTIMATE SECTION
 DATE 2-10-77 INITIAL TJL

Inspector: E. D. Ferguson
 Resident Engineer: McYoung

ORIGINAL

AUG 11 1975

TEST PILE RECORD

Job 1455 FAP RS-389-(3) Type & Size Piling Steel
Job Name Ark. River 13th Apprs. Weight of Hammer or Ram 5000 lbs
Bridge No. 5600 Pier (Bent) No. 30 Hammer (Brand & Model) Clayton

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE PER SPICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
8-6-75	9	40.2	0	0	0	1.2	38.4	9.0	29.4	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
22-23	24	3	0.50	25.0
23-24	25		0.48	25.9
24-25	25		0.48	26.5
25-26	27		0.44	27.8
26-27	35		0.35	34.1
27-28	33		0.36	32.6
28-29	42		0.26	41.7
29-30	60		0.20	50.0
30-31	55		0.22	46.9
31-32	66		0.18	58.6
32-33	60		0.20	50.0
33-34	67		0.18	53.6
34-35	100		0.13	68.2
35-36	120		0.10	75.0
36-37	130		0.09	78.9
37-38	120		0.06	93.8
38-38.2	120	3	0.001	149.9
Drive to 145.21				

TEST PILE DATA	
Elev. Top of Driven Pile	333.33
Elev. Top of Pile	293.13
Pile Elev. Top of Pile	331.50
Elev. Natural Ground	332.50
Elev. Bottom of Footing	330.50
Elev. Casting Board	331.33

Bent No. 30 Recommended Length 38

Submitted By: McYoung
RECOMMENDED BY: Denton
APPROVED: [Signature]

ORIGINAL

PILING RECORD

Job No. 1455 FAP No. RS-329(3) Job Name Adv. Piling Co. & Assoc. (Coral)
 Bridge No. 5600 Pier (Bent) No. 31 Weight of Hammer 5000
 Type of Piling Steel Hammer (Brand & Model) No. 1 HILSON
 Size of Piling 24" x 23" Energy Rating 15,000 ft-lbs
 Approved Pile Length 38'

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO	LENGTH OF PILE IN LEAD	LENGTH OF BUILD-UP	ALLOWANCE FOR BRICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (AV.) LAST 20 BLOWS INCHES (DECIMAL)	STROKS FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
8-16-25	40	0	0	0	0	2.5	37.5	32.0	.250	3	133.3	
8-16	43	0	0	0	0	2.2	37.8	32.3	.375	3	136.3	
8-14	45	0	0	0	0	2.0	38.0	32.5	.345	2	136.3	
8-16	46	0	0	0	0	2.4	37.6	32.1	.375	3	126.2	
8-16	47	0	0	0	0	1.6	38.4	32.7	.375	2	126.3	
8-16	48	0	0	0	0	1.8	38.2	32.9	.250	2	126.3	
8-16	49	0	0	0	0	2.0	38.0	32.5	.250	2	126.3	
8-16-4	40	0	0	0	1.7	0	37.3					Test Pile

Total

32.6 0 0 0 14.5 27.1

CHECKED BY: T. J. Harker
 DATE: 2-11-27
TH

Inspector:

Resident Engineer:

[Signature]
[Signature]

ORIGINAL

AUG 21 1975

TEST PILE RECORD

RECEIVED
MISSOURI, ARKANSAS

Job 1455 FAP RS-389(3) Type & Size Piling STEEL HP 14x73
Job Name 2nd BRIDGE Weight of Hammer or Ram 1700 LBS.
Bridge No. 5600 Pier (Bent) No. 31 Hammer (Brand & Model) W. I. Union

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
8-16-75	4	40.0	0	0	0	4.7	38.3	5.5	32.8	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS	TEST PILE DATA
20-21	17	3	.706		Elev. Top of Driven Pile <u>332.17</u>
21-22	15		.800		Elev. Tip of Pile <u>292.17</u>
22-23	14		.857		Plan Elev. Top of Pile <u>330.50</u>
23-24	12		.750		Elev. Natural Ground <u>325.00</u>
24-25	17		.706		Elev. Bottom of Footing <u>329.50</u>
25-26	19		.632		Elev. Ceiling Board <u>334.07</u>
26-27	17		.706		
27-28	17		.632		
28-29	22		.545		
29-30	17		.632		
30-31	19		.632		
31-32	23		.522		
32-33	25		.480		
33-34	34		.353		
34-35	30		.300		
35-36	20		.240		
36-37	75		.141		
37-38	73		.160		
38-39	620	3	.017		
DRIVEN TO REFUSAL					
					Submitted By: <u>McPune</u> RESIDENT ENGINEER
					Recommended: <u>David Moore by leg</u> DISTRICT ENGINEER
					APPROVED: <u>[Signature]</u> ASST. CONSTR. ENGINEER

Submitted By:

McPune
RESIDENT ENGINEER

Recommended:

David Moore by leg
DISTRICT ENGINEER

APPROVED:

[Signature]
ASST. CONSTR. ENGINEER

ORIGINAL

10-587

Job Name Removal of old roof
Weight of Hammer 5000 lb
Hammer (Brand & Model) No. 1 Hammer
Energy Rating 15000 ft/lb

DATE	PILE NO.	LENGTH OF PILE IN LEAD	LENGTH OF BUILD-UP	ALLOWANCE FOR SP. ICE	LENGTH OF CUT-OFF (PAV)	LENGTH OF CUT-OFF (NO PAV)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION 2' LAST 20 BLOWS INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
8-13-70	6	40'	0	0	0	5.1'	36.9'	31.4	0	3	150.0	REFUSEAL
8-13	2	40'	0	0	0	2.0'	38.0'	32.5	.250	3	133.3	
8-13	1	40'	0	0	0	1.3'	38.7'	33.2	.250	3	132.3	
8-13	9	40'	0	0	0	1.4'	38.6'	32.1	.375	2	126.3	
8-13	3	40'	0	0	0	1.8'	38.2'	32.7	.500	3	120.0	
8-13	5	40'	0	0	0	1.6'	38.4'	32.9	.125	2	141.2	
8-13	7	40'	0	0	0	1.9'	38.1'	32.6	.375	3	126.3	
8-13	10	40'	0	0	0	2.1'	37.9'	32.4	.375	3	126.7	
8-13	8	40'	0	0	0	1.5'	38.5'	33.0	.500	3	120.0	
8-13	4	40.2	0	0	0	1.7	38.5	33.0	"			Test Pile

460.2				18.4	381.8
360.0	0-	0-	0-	18.7	342.3

SIGNATURE
SIGNATURE

ORIGINAL

TEST PILE RECORD

AUG 16 1975

Job 1455 FAP RS-288 Type & Size Piling Steel H Pile
 Job Name 12.5 Miles (S.W. of) Weight of Hammer or Ram 10,000 LBS
 Bridge No. 5600 Pier (Bent) No. 32 Hammer (Brand & Model) W. L. V. 10,000

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAYS)	LENGTH OF CUT-OFF (NO PAYS)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
8-13-75	411	40.2	0	0	0	1.7	38.5	5.5	34.0	125	40	1500

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
19-21	21	3.0	0.21	22.4
21-22	16		0.75	17.6
22-23	19		0.23	20.5
23-24	19		0.63	20.5
24-25	20		0.60	21.0
25-26	26		0.46	26.8
26-27	25		0.48	25.9
27-28	22		0.55	23.1
28-29	27		0.44	27.6
29-30	30		0.40	30.0
30-31	42		0.29	38.5
31-32	53		0.23	45.5
32-33	65		0.18	53.6
33-34	158		0.087	80.2
34-35	158		0.074	85.2
35-36	610	3.0	0.118	127.1

TEST PILE DATA
 Elev. Top of Driven Pile 333.21
 Elev. Top of Pile 332.91
 Elev. Natural Ground 331.50
 Elev. Bottom of Footing 326.50
 Elev. Counting Board 326.91

Bent No. 32 Recommended Length 39

Submitted By McKinnis
 RESIDENT ENGINEER

Recommended Dave Moon
 DISTRICT ENGINEER

APPROVED: [Signature]
 DIST. ENGINEER

PILING RECORD

Job No. 145 PAF No. RS-2290 Job Name At. River Fr. Appro. Canal
 Bridge No. 5600 Pier (Bent) No. 3 Weight of Hammer 5900 LBS
 Type of Piling HP Hammer (Brand & Model) No. 1 Vulcan
 Size of Piling HP 14x73 Energy Rating 17000 FT-LBS
 Approved Pile Length 40

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEAD	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION IN LAST 20 BLOWS INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
8-26-75	10	40	0	0	0	4.3	35.7	26.2	.505	3	120.0	
8-26	5	40	0	0	0	4.4	35.6	26.1	.375	3	126.3	
8-26	7	40	0	0	0	4.5	35.5	26.0	.125	3	141.2	
8-26	9	40	0	0	0	4.7	35.3	24.8	.125	3	141.2	
8-27	2	40	0	0	0	4.2	35.8	26.3	.250	3	133.2	
8-27	3	40	0	0	0	4.3	35.7	26.2	.250	3	133.2	
8-27	11	40	0	0	0	4.3	35.7	26.2	.250	3	133.2	
8-27	12	40	0	0	0	4.1	35.9	26.4	.375	3	126.3	
8-27	8	40	0	0	0	4.0	36.0	26.5	.375	3	126.3	
8-27	6	40	0	0	0	3.9	36.1	26.6	.250	3	133.3	
8-27	4	40	0	0	0	4.2	35.8	26.3	.375	3	126.3	
8-26	1	40.8	0	0	0.2	4.8	35.8	29.8				Test Pile
Total		480.8	0	0	0.2	51.7	429.1					
		440.0	0	0	0	46.9	393.1					

CHECKED BY: TJL
 FINAL ESTIMATE SECTION
 DATE 2-11-77 INITIAL TJK

ORIGINAL

Inspector: A.C. Thompson

Resident Engineer: McJone

TEST PILE RECORD

Job 1455 FAP RS-389(3) Type & Size Piling Steel N.P. 14x73
 Job Name Ark. River Bridge Weight of Hammer or Ram 5000
 Bridge No. 5600 Bent (Bent) No. 33 Hammer (Brand & Model) N.C. 14x73

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF PAYS	LENGTH OF CUT OFF INCL. PAY	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
8-26-75	1	40.3	0	0	0	50	35.3	6	29.8	175	60	14000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS	TEST PILE DATA	
20-21	21	3	0.571	22.35	Elev. Top of Driven Pile	334.50
21-22	18		0.667	19.56	Elev. Tip of Pile	292.70
22-23	17		0.706	18.61	Plan Elev. Top of Pile	329.50
23-24	18		0.667	19.56	Elev. Natural Ground	323.80
24-25	23		0.522	24.12	Elev. Bottom of Footing	322.89
25-26	23		0.522	24.12	Elev. Counting Board	330.53
26-27	18		0.667	19.56	Bent No.	Recommended Length
27-28	23		0.522	24.12		
28-29	21		0.571	22.35	33	36
29-30	25		0.480	25.86		
30-31	32		0.378	31.59		
31-32	50		0.240	41.72		
32-33	68		0.176	54.35		
33-34	23		0.144	61.48		
34-35	100		0.120	68.12		
35-36	112		0.107	72.46		
36-36.83	408	3	0.025	120.00		
Driven To Refusal					Submitted By:	
					<i>McNamee</i>	
					Recommended:	
					<i>David M. Brown</i>	
					DISTRICT ENGINEER	
					APPROVED:	
					<i>Robert A. Baker</i>	
					ASST. CONSTR. ENGINEER	

ORIGINAL

PILING RECORD

Job No. 1455 FAP No. KS-387(3)
 Bridge No. 5600 Rec (Bent) No. 59
 Type of Piling Steel
 Size of Piling HP 14x75
 Approved Pile Length

Job Name Ark River Bridge (Clockville)
 Weight of Hammer 3000
 Hammer (Brand & Model) No. 1 Vulcan
 Energy Rating 15000 ft lbs.

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION 1 IN. LAST 30 BLOWS (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
8-22-79	40	0	0	0	4.7	35.3	29.3	.375	3	126.3	✓	
8-22	7	40	0	0	0	3.9	36.7	30.1	.135	3	141.2	✓
8-22	1	40	0	0	0	5.1	34.9	28.9	0	3	150.0	Refused
8-22	10	40	0	0	0	4.4	35.6	29.6	.125	3	141.2	✓
8-22	2	40	0	0	0	4.6	35.4	29.4	.250	3	133.3	✓
8-22	11	40	0	0	0	4.3	35.7	29.7	.375	3	126.3	✓
8-22	3	40	0	0	0	4.3	35.7	29.7	.500	3	120.0	✓
8-22	12	40	0	0	0	3.2	36.8	30.8	.125	3	141.2	✓
8-22	8	40	0	0	0	4.0	36.0	30.0	.250	3	133.3	✓
8-22	6	40	0	0	0	3.7	36.3	30.3	.125	3	141.2	✓
8-22	4	40	0	0	0	4.8	35.2	29.2	.250	3	133.3	✓
8-22	5	40	0	0	0	4.1	35.9	29.9				Test Pile
Total												
	480					51.1	429.9					
	440	0	0	0	0	47.0	393.0					

CHECKED BY: T. Hunter
 FINAL ESTIMATE SECTION
 DATE 2-11-77 INITIAL TH

Inspector: GARY HAWKINS
 Resident Engineer: McY...

ORIGINAL

F

FD-208
APR 1964 EDITION
GSA GEN. REG. NO. 27

TEST PILE RECORD

AUG 25 1975

Job: 1455 FAP RS-389 (3)
 Job Name: Ark. River Bldg. Appo. Type & Size Piling: Steel H.P. 14x73
 Bridge No.: 5600 (Bent) No.: 34 Weight of Hammer or Ram: 3000
 Hammer (Brand & Model): No. 1 Vulcan

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (FEET)	LENGTH OF CUT-OFF (INCHES)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
8-28-75	5	40	0	0	0	41	339	6	29.9	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
19-20	13	3	.923	14.7
20-21	13		.923	14.7
21-22	14		.857	15.7
22-23	17		.706	18.6
23-24	14		.857	15.7
24-25	14		.857	15.7
25-26	18		.667	19.6
26-27	19		.632	20.5
27-28	21		.571	22.4
28-29	18		.667	19.6
29-30	19		.632	20.5
30-31	25		.480	28.9
31-32	25		.632	40.2
32-33	27		.197	50.5
33-34	25		.185	52.6
34-35	18		.176	54.3
35-36	20		.171	55.4
36-37	23		.145	61.7
38-39.33	225	5	.019	131.6

TEST PILE DATA

Elev. Top of Driven Pile	223.60
Elev. Tip of Pile	292.60
Plan Elev. Top of Pile	329.50
Elev. Natural Ground	322.50
Elev. Bottom of Testing	322.50
Elev. Counting Board	331.93

Bent No. 34 Recommended Length 36

RECEIVED
 Submitted By: McLennan
 Recommended: Robert M. ...

APPROVED: [Signature]
 ASST. CONSTR. ENGINEER

Driven To Refusal

ORIGINAL

PILING RECORD

Job No. 1455 FAP No. RS-387(3)

Job Name Ark River B. Approval (Crestal)

Bridge No. 5600 Pier (Bent) No. 25

Weight of Hammer 5000

Type of Piling Steel

Hammer (Brand & Model) No. 1 Williams

Size of Piling H.P. 14 x 73

Energy Rating 15000 ft-lbs

Approved Pile Length 35

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEAD	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION / LAST 20 BLOWS INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
8-29-56	6	40	0	0	0	5.2	34.8	29.3	.250	3	133.3	
8-29	4	40	0	0	0	5.4	34.6	29.1	.125		141.2	
8-29	1	40	0	0	0	5.4	34.6	29.1	.375		126.3	
8-29	9	40	0	0	0	5.9	34.1	28.6	.250		133.3	
8-29	2	40	0	0	0	5.5	34.5	29.0	.25		141.2	
8-29	10	40	0	0	0	5.2	34.8	28.6	.375		126.3	
8-29	7	40	0	0	0	5.5	34.5	29.0	.500		120.0	
8-29	5	40	0	0	0	5.7	34.3	28.8	.375		126.3	
8-29	3	40	0	0	0	6.4	33.6	28.1	.375	3	126.3	
8-29	8	40	0	0	0	4.7	35.3	29.8				Test Pile

Total 490
262 0' 0' 0' 55.6 344.4
599 309.1

CHECKED BY: T. J. L. L.
FINAL ESTIMATE SECTION
DATE 2-1-77 INITIAL TJL

ORIGINAL

Inspector: E. D. Ferguson
Resident Engineer: McKinnery
SIGNATURE

SEP 3 1975

TEST PILE RECORD

Job 1455 FAP RS-389(3)
Job Name Ark. River B.O. & Apprs.
Bridge No. 5600 Pier (Bent) No. 35

Type & Size Piling Steel HP 14x53
Weight of Hammer or Ram 5000
Hammer (Brand & Model) Nord Vulcan

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (FEET)	LENGTH OF CUT-OFF (INCHES)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
8-29-75	8	110	0	0	0	47	35.3	5.5	29.8	125	60	18000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	GEARING IN TONS
22-23	19	3	0.632	20.5
23-24	21		0.571	22.4
24-25	20		0.600	21.2
25-26	20		0.600	21.4
26-27	20		0.600	21.4
27-28	20		0.600	21.4
28-29	20		0.600	21.4
29-30	20		0.600	21.4
30-31	25		0.480	25.9
31-32	26		0.462	26.7
32-33	26		0.462	26.7
33-34	27		0.444	27.6
34-35	35		0.343	33.9
35-36	109		0.110	71.4
36-36.58	367	3	0.019	426.1

Driven to Refusal

TEST PILE DATA	
Elev. Top of Driven Pile	333.20
Elev. Top of Pile	295.20
Plan Elev. Top of Pile	328.50
Elev. Natural Ground	331.60
Elev. Bottom of Fasting	327.80
Elev. Counting Board	329.78

Bent No. 35 Recommended Length 35

Submitted By: McPherson
RESIDENT ENGINEER

Recommended: Robert Moore
DISTRICT ENGINEER

APPROVED: BP Parker
BOT. CONSTR. ENGINEER

PILING RECORD

Job No. 1455 FAP No. RS-389(3)
 Bridge No. 5600 Bay (Bent) No. 36
 Type of Piling Steel
 Size of Piling N.P. 14x33
 Approved Pile Length 38'

Job Name Ark. River Bridge
 Weight of Hammer 5000 LBS.
 Hammer (Brand & Model) No. 1 Vulcan
 Energy Rating 18000 ft. lbs.

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement.
 Record one pile per sheet.

DATE	PILE NO	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (INCHES) LAST 30 BLOWS (DECIMAL)	STROKE PER	COMPUTED BEARING CAPACITY (TONS)	REMARKS
9-5-73	1	40'	0	0	0	2.3'	32.7	32.2	.125	3	141.2	
9-5	4	40'				2.5'	37.5	32.0	.250		133.3	
9-5	6	40'				3.6'	36.4	30.9	0		150.0	
9-5	7	40'										
9-6	2	40'				2.8'	37.2	31.7	0		150.0	Test Pile
9-6	8	40'				1.9'	38.1	32.6	.250		123.3	
9-6	5	40'				1.6'	38.4	32.9	.200		120.0	
9-6	3	40'	0	0	0	1.8'	38.2	32.7	.375	3	126.3	
9-5	7	40	0	0	0.7	2.0	37.3	31.8				Test Pile
								</				

SEP 9 1976

TEST PILE RECORD

Job 1455 FAP RS-329(3) Type & Size Piling STEEL PIPE 14x73
Job Name ARK. POWER CO. CHATTANOOGA Weight of Hammer or Ram 5000 LBS
Bridge No. 15600 Pier (Bent) No. 36 Hammer (Brand & Model) W. T. VULCAN

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
9-8-76	7	40	0	0	0	2.7	37.3	5.5	31.8	12.5	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
20-21	22	3	.55	23.1
21-22	26	}	.46	26.8
22-23	30		.40	30.0
23-24	30		.40	30.0
24-25	33		.26	32.6
25-26	37		.22	35.7
26-27	46		.26	41.7
27-28	42		.29	38.5
28-29	40		.30	37.5
29-30	43		.28	39.5
30-31	58		.21	48.4
31-32	86		.14	62.5
32-33	266	}	.045	103.4
33-34	286		.043	104.9
34-35	328		.037	109.5
35-36	451		.027	118.1
36-36.7	721	3	.012	133.9
DRIVEN TO REFUSAL				

TEST PILE DATA

Elev. Top of Driven Pile 335.67
Elev. Tip of Pile 29.567
Plan Elev. Top of Pile 333.00
Elev. Natural Ground 322.50
Elev. Bottom of Piling 332.00
Elev. Existing Ground 322.37

Bent No. 36 Recommended Length 38

Submitted By:

McFarling
PROJECT ENGINEER

Recommended:

David Moon
DISTRICT ENGINEER

APPROVED:

[Signature]
ASST. CHIEF ENGINEER

ORIGINAL

101

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

Total

CHECKED BY: *TL*
FINAL ESTIMATE SECTION
DATE *2-11-77* INITIAL *TL*

Inspector:

Resident Engineer:

TEST PILE RECORD

Job 1455 FAP PS-329(3) Type & Size Piling Steel HP 14x72
 Job Name Ark. State Highway Dept. Bridge No. 5600 Weight of Hammer or Ram 5000 lb
 Bridge No. 5600 Pier (Bent) No. 37 Hammer (Brand & Model) Y&S

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPLICE	LENGTH OF CUT-OFF PAYS	LENGTH OF CUT-OFF (NO-PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
9-2-75	3	40.0	0	0	0	3.0	37.0	5.5	36.5	125	60	12000

FT. TO FT.	BLOWS PER FOOT	AVE DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
20-21	16	3.0	0.75	17.6
21-22	19		0.63	20.5
22-23	19		0.63	20.5
23-24	18		0.67	19.5
24-25	17		0.71	18.5
25-26	18		0.63	20.5
26-27	20		0.60	21.4
27-28	24		0.50	25.0
28-29	25		0.48	25.9
29-30	25		0.48	25.9
30-31	26		0.46	26.8
31-32	27		0.40	30.0
32-33	75		0.16	57.7
33-34	125		0.096	76.5
34-35	120		0.092	78.2
35-35.4	240	3.0	0.020	125.0
DRIVEN TO REFUSAL				
ARK. STATE HIGHWAY DEPT. TITUSVILLE, MO. 6				
SEP 8 1975				

TEST PILE DATA

Elev. Top of Driven Pile 335.46
 Elev. Tip of Pile 295.46
 Plan Elev. Top of Pile 332.50
 Elev. Natural Ground 327.00
 Elev. Bottom of Footing 331.50
 Elev. Counting Board 330.86

Bent No. 37 Recommended Length 37.0

Submitted By: McNamee
 RESIDENT ENGINEER

Recommended: Wm. Moon
 DISTRICT ENGINEER

APPROVED: [Signature]
 RES. CONSTN. ENGINEER

ORIGINAL

PILING RECORD

Job No. 1455 FAP No. 25-389(2)
 Bridge No. 1680 Sigs. (Bent) No. 3B
 Type of Piling STEEL
 Size of Piling H 14 x 73
 Approved Pile Length

Job Name Ark. River Bridge (Cul.)
 Weight of Hammer 5000 lbs
 Hammer (Brand & Model) No. 1 H/1000
 Energy Rating 1500 ft-lbs

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICES	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (IN) LAST 20 BLOWS (INCHES (DECIMAL))	STROKS FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
9-11-75	3	40	0	0	0	3.1	36.9	31.4	0	3	150.0	
9-11	1	40	0	0	0	3.4	36.6	31.1	.250		109.1	
9-11	5	40	0	0	0	2.3	37.7	32.2	.250		133.3	
9-11	7	40	0	0	0	2.2	37.8	32.3	.250		120.0	
9-11	9	40	0	0	0	2.6	37.4	31.9	.275		114.3	
9-11	10	40	0	0	0	2.6	37.4	31.9	.275		141.2	
9-11	11	40	0	0	0	3.2	36.8	31.3	.275		126.3	
9-11	4	40	0	0	0	2.5	37.5	32.0	.288		137.1	
9-11	6	40	0	0	0	2.8	37.2	31.7	.250		133.3	
9-11	8	40	0	0	0	3.1	36.9	31.4	.275		126.3	
9-11	12	40	0	0	0	3.1	36.9	31.4	.250	3	133.3	
9-11	2	40	0	0	0.5	2.0	37.5	32.0				Test Pile

Total 480
440 0 0 0.5 32.9 446.0
40 30.9 409.1

CHECKED BY: TJ Lawler
 FINAL ESTIMATE SECTION
 DATE 2-11-77 INITIAL TL

Inspector: E. D. Frouma
 Resident Engineer: C. W. McMillian

ORIGINAL

TEST PILE RECORD

Job 1455 FAP RS-389(3) Type & Size Piling Steel H.P. 14x73
 Job Name Ark. River Br. Appro. (2nd) Weight of Hammer or Ram 5000 lbs
 Bridge No. 5600 Pile (Bent) No. 3B Hammer (Brand & Model) No. 1 Vulcan

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPACE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO-PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
9-11-75	2	40	0	0	0	2.5	37.5	5.5	32.0	125	6.2	12000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
20-21	30	}	.40	30.0
21-22	25		.48	25.9
22-23	23		.52	24.2
23-24	24		.50	25.0
24-25	22		.50	23.1
25-26	13		.50	23.1
26-27	19		.63	20.5
27-28	24		.80	25.0
28-29	21		.57	22.4
29-30	30		.40	20.0
30-31	29	}	.41	29.4
31-32	31		.39	30.4
32-33	25		.48	25.5
33-34	28		.43	28.3
34-35	60		.20	20.0
35-36	85		.14	62.5
36-37	69		.17	53.6
37-38	62		.19	51.7
38-39	420		.03	115.4
39-39.12	219	3	.007	140.2
Driven To Refusal				

TEST PILE DATA

Elev. Top of Driven Pile 335.00
 Elev. Tip of Pile 295.60
 Plan Elev. Top of Pile 332.50
 Elev. Natural Ground 327.0
 Elev. Bottom of Footing 321.50
 Elev. Coasting Board 324.0

Bent No. _____ Recommended Length _____

3B 37'

Submitted By:

C.W. McMillan
 RESIDENT ENGINEER

Recommended:

David Moon
 DISTRICT ENGINEER

APPROVED:

[Signature]
 ASST. CONSTN. ENGINEER

ORIGINAL

PILING RECORD

Job No. 1455 FAF No. 125-227 (3)
 Bridge No. 5600 Pier (Bent) No. 3
 Type of Piling SPILL
 Size of Piling 14" x 14" x 73
 Approved Pile Length

Job Name San Diego Harbor (C.L.)
 Weight of Hammer 3000 lbs
 Hammer (Brand & Model) Hammer
 Energy Rating 3000 ft. lbs.

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement. Record one pier per sheet.

DATE	PILE NO	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION IN LAST 20 BLOWS INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY TONS	REMARKS
7-16-75	2	40'	0	0	0	6.2	83.8	27.3	.250	3	133.3	
9-16	11	40'				6.9	83.1	27.1	.125		141.2	
2-16	3	40'				7.3	82.7	26.7	.500		120.0	
3-16	9	40'				4.5	35.5	29.5	.375		126.3	
2-16	7	40'				6.2	83.8	27.8	.500		120.0	
2-16	5	40'				5.2	84.4	28.4	.500		120.0	
7-17-75	1	40'				3.5	36.1	30.1	.125		141.2	
2-17	12	40'				5.2	84.8	28.8	.125		141.2	
2-17	8	40'				6.3	83.7	27.7	.125		141.2	
2-17	6	40'				6.7	83.3	27.3	.250		133.3	
2-17	4	40'	0	0	0	4.1	35.9	29.9	.375	3	126.3	
2-17	10	40'	0	0	3.1	2.0	34.9					Test Pile

Total

480
448 0' 5 3.1 65.4 411.5
65.4 376.5

CHECKED BY: T. J. Lander
 FINAL ESTIMATE SECTION
 DATE 2-11-77 INITIAL TJL

Inspector:

Resident Engineer:

G. C. Lander
 SIGNATURE
C. W. McMillan
 SIGNATURE

ORIGINAL

TEST PILE RECORD

Job 1455 FAP RS-329(3) Type & Size Piling Steel H P 14x73
 Job Name Rock River Co. Area (C/O - Pile) Weight of Hammer or Ram 9000 lbs
 Bridge No. 5600 Pier (Bent) No. 39 Hammer (Brand & Model) WILCOX

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO-PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
9-16-75	10	40	0	0	0	51	149	6.0	29.4	125	60	16000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	BEARING IN TONS
21-22	19	2	.63	20.5
22-23	27	2	.44	27.8
23-24	24	2	.50	25.0
24-25	34	2	.50	25.0
25-26	32	2	.48	25.9
26-27	25	2	.48	25.9
27-28	26	2	.46	26.8
28-29	26	2	.46	26.8
29-30	27	2	.44	27.8
30-31	27	2	.44	27.8
31-32	30	2	.40	30.0
32-33	32	2	.38	31.2
33-34	4	2	.29	33.9
34-35	42	2	.25	42.9
35-36	98	2	.13	68.2
36-37	117	2	.05	100.0
37-38	320	2	.03	115.4
38-39.08	108	3	.01	136.4

Driven to Refusal

TEST PILE DATA

Elev. Top of Driven Pile 337.60
 Elev. Tip of Pile 292.60
 Plan Elev. Top of Pile 332.50
 Elev. Natural Ground 326.50
 Elev. Bottom of Piling 311.50
 Elev. Counting Board 335.69

Bent No. Recommended Length

39 35'

MISSOURI STATE HIGHWAY DEPT.
 JEFFERSON, MO. 64601

SEP 26 1975

RECEIVED
 MISSOURI STATE HIGHWAY DEPT.

Submitted By:

C.W. McMillan
 NEIGHBORLY ENGINEERING

Recommended:

Wm. J. McMillan
 DISTRICT ENGINEER

APPROVED:

RECEIVED
 ASST. CONSR. ENGINEER

ORIGINAL

PILING RECORD

Job No. 455 FAP No. 2-10-77 Job Name Bay Bridge Pier 10
 Bridge No. 5600 Pier (Bent) No. 10 Weight of Hammer 5000
 Type of Piling Steel Hammer (Brand & Model) 10' 1" HAN
 Size of Piling HP 14x57 Energy Rating 15000
 Approved Pile Length _____

Piling should be numbered from right to left. Show piling cut-off and build-up lengths to nearest tenth of a foot by actual measurement.
 Record one pier per sheet.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPLICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (AL) LAST 20 BLOWS INCHES (DECIMAL)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
9-17-77	9	40'	0	0	0	4.8	35.2	29.7	.325	3	126.3	
9-17	1	40'	0	0	0	4.8	35.2	29.7	.250	3	133.3	
9-17	4	40'	0	0	0	5.4	34.6	29.1	.500	3	120.0	
9-17	6	40'	0	0	0	4.8	35.2	29.7	.250	2	133.3	
9-17	8	40'	0	0	0	4.6	35.4	29.9	.125	3	141.2	
9-17	3	40'	0	0	0	4.5	35.5	30.0	0	3	150.0	REFUSAL
9-17	5	40'	0	0	0	4.5	35.5	30.0	.125	3	141.2	
9-17	7	40'	0	0	0	4.5	35.5	30.0	0	3	150.0	REFUSAL
9-17	10	40'	0	0	0	4.3	35.7	30.2	0	3	150.0	REFUSAL
9-17	2	40.3	0	0	2.7	2.3	35.3	29.8				Test Pile
Total		400.3	0	0	2.7	44.5	353.1					
		360.0				42.2	317.8					

CHECKED BY: T. J. Lawler
 FINAL ESTIMATE SECTION
 DATE 2-11-77 INITIAL TJL

Inspector: [Signature]
 Resident Engineer: C. W. McMillan

ORIGINAL

TEST PILE RECORD

Job 1455 PAF R3-389(3) Type & Size Piling 4" x 4" x 273
 Job Name Ark. River Bridge Weight of Hammer or Ram 5000
 Bridge No. 5600 Pier (Bent) No. 40 Hammer (Brand & Model) McAlister

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (DAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR A/C PRESS/HR	BLOWS PER MINUTE	ENERGY RATING
9-17	2	40.3	0	0	0	2.0	42.3	3.3	29.8	12.5	6.0	13000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRATION PER BLOW	SEARING IN TONS
17-18	10	3	1.20	11.5
18-19	10	2	1.00	13.6
19-20	12		1.00	13.6
20-21	16		.75	17.6
21-22	18		.67	19.5
22-23	16		.75	17.6
23-24	17		.67	19.5
24-25	18		.63	20.5
25-26	20		.60	21.4
26-27	20		.60	21.4
27-28	20		.60	21.4
28-29	20		.50	25.0
29-30	20		.40	30.0
30-31	29		.31	36.6
31-32	50		.20	37.5
32-33	53		.23	36.5
33-34	35		.22	36.8
34-35	70		.16	46.9
35-36	75		.16	45.0
36-36.5	303	3	.02	185.0

TEST PILE DATA

Elev. Top of Driven Pile 337.50
 Elev. Tip of Pile 297.20
 Plan Elev. Top of Pile 332.50
 Elev. Natural Ground 333.00
 Elev. Bottom of Footing 331.50
 Elev. Counting Board 332.00

Bent No. _____ Recommended Length _____

40 36

ARK. STATE HIGHWAY DEPT.
 DISTRICT NO. 8

SEP 23 1975

RECEIVED
 BIRMINGHAM, ALABAMA

Submitted By:

C. J. McMillan
 RESIDENT ENGINEER

Recommended:

Wend Moore
 DISTRICT ENGINEER

APPROVED:

[Signature]
 ASST. CONSTR. ENGINEER

Driven to Refusal

ORIGINAL

23

Lab Name: _____

Weight of Water: 600.12

Refrigerator (Brand & Model) Kenmore Refrigerator

Energy Rating F = 800 kWh

Piling should be numbered from right to left. Show piling cut-off and build up lengths to nearest tenth of a foot by actual measurement.

DATE	PILE NO	LENGTH OF PILE IN LEADS	LENGTH OF BUILD-UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAT)	LENGTH OF CUT-OFF (NO PAT)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION (AV. LAST 20 BLOWS INCHES (DECIMAL)	STROKS PER FT	COMPUTED BEARING CAPACITY (TONS)	REMARKS
9-26-62	1	40'	0	0	0	5.8	34.2	28.7	0	3	1500	REFUSAL
9-26	3	40'	0	0	0	5.8	34.2	28.7	.125	3	141.2	—
9-26	4	40'	0	0	0	6.0	34.0	28.5	.125	3	141.2	—
9-26	5	40'	0	0	0	6.3	32.7	28.2	.125	2	141.2	—
9-26	6	40'	0	0	0	6.3	32.7	28.2	0	3	1500	REFUSAL
9-26	7	40'	0	0	0	6.0	34.0	28.5	0	3	150.0	REFUSAL
9-26	8	40'	0	0	0	5.9	34.1	28.6	0	3	1500	REFUSAL
9-26	2	40'	0	0	3.9	2.0	34.1	24.6				Test Pile

320.0			3.9	44.1	272.0
295.1	O -	O -	6	49.1	222.9

CHECKED BY: *TV Lander*
FINAL ESTIMATE SECTION
DATE: *2-11-77* INITIAL: *TJL*

G. C. Hawken
SIGNATURE

SIGNATURE
C. W. McMillan
SIGNATURE

ORIGINAL

TEST PILE RECORD

Job 1455 FAP RS-387(3) Type & Size Piling OCT 5 1975 HP 14x173
 Job Name ARK. E. R. 3. HETTS Weight of Hammer or Ram 5000 LB.
 Bridge No. 5100 Pier (Bent) No. 41 Hammer (Brand & Model) WILCOX

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAY)	LENGTH OF CUT-OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
9-26-75	2	40	0	0	0	5.9	34.1	5.5	28.6	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRA- TION PER BLOW	BEARING IN TONS	TEST PILE DATA		
20-21	10	3.0	1.200	11.5	Elev. Top of Driven Pile	339.9	
21-22	12	7	1.000	13.6	Elev. Tip of Pile	298.2	
22-23	12		1.000	13.6	Plan Elev. Top of Pile	333.0	
23-24	13		0.923	14.7	Elev. Natural Ground	327.5	
24-25	14		0.857	15.2	Elev. Bottom of Footing	322.0	
25-26	17		0.706	18.6	Elev. Counting Board	326.0	
26-27	20		0.600	21.4	Bent No.	Recommended Length 34	
27-28	23		0.522	24.1			
28-29	24		0.500	25.0			
29-30	26		0.462	26.7			
30-31	45		0.226	41.0			
31-32	56		0.214	47.8	Submitted By: C.W. McMillin RESIDENT ENGINEER		
32-33	66		0.182	53.2			
33-34	110		0.109	71.8			
34-35	227		0.053	98.0			
35-35.5	366	3.0	0.016	129.3			
TEST PILE REFUSED					Recommended: Daniel Moore by Ram DISTRICT ENGINEER		
					APPROVED: [Signature] ASST. CONSTR. ENGINEER		

ORIGINAL

18-167 22

Weight of Hammer 5000 LBS
Hammer (brand & Model) Na 11111111
Energy Rating 15000 FT. LBS

DATE	PILE NO	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPLICE	LENGTH OF CUT OFF (IN PAY)	LENGTH OF CUT OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH IN GROUND	PENETRATION / AV. LAST 20 BLOWS INCHES (DECIMALS)	STROKE FEET	COMPUTED BEARING CAPACITY (TONS)	REMARKS
9-24-75	9	40.0	0	0	0	6.7	33.3	27.8	0	3	150.0	REFUSEAL
9-24	16	40.0	0	0	0	6.7	33.3	27.8	0	3	150.0	REFUSEAL
9-24	7	40.0	0	0	0	7.1	32.9	27.6	0.125	3	141.2	
9-24	5	40.0	0	0	0	7.0	33.0	27.5	0.250	3	133.3	
9-24	3	40.0	0	0	0	7.0	33.0	27.5	0.250	3	133.3	
9-24	1	40.0	0	0	0	6.3	33.7	28.2	0	3	150.0	REFUSEAL
9-24	4	40.0	0	0	0	6.6	33.4	27.9	0	3	150.0	REFUSEAL
9-24	6	40.0	0	0	0	6.3	33.7	28.2	0	3	150.0	REFUSEAL
9-24	8	40.0	0	0	0	6.2	33.8	28.3	0.250	3	133.3	
9-21	2	40.2	0	0	4.2	2.2	33.8	26.3				Test Pile

CHECKED BY: TJ Hunter
FINAL ESTIMATE SECTION
DATE: 2-11-77 INITIAL: TJH

Resident Engineer:

ORIGINAL

TEST PILE RECORD

Job 1455 FAP 765-389(3) Type & Size Piling STEEL HP 14 x 73
 Job Name ARK. RIVER RR 5 MILE Weight of Hammer or Ram 10,000 LBS
 Bridge No. 5600 Pier (Bent) No. 42 Hammer (Brand & Model) NO. 1 VULCAN

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT OFF (PAY)	LENGTH OF CUT OFF (NO PAY)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STEAM OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
9-24-75	2	40.2	0	0	0	6.4	33.8	5.5	28.3	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRA- TION PER BLOW	BEARING IN TONS
20-21	15	3.0	0.800	16.7
21-22	12		1.000	13.6
22-23	13		0.923	14.7
23-24	13		0.923	14.7
24-25	17		0.706	18.6
25-26	17		0.706	18.6
26-27	19		0.632	20.5
27-28	21		0.571	22.4
28-29	21		0.571	22.4
29-30	19		0.632	20.5
30-31	23		0.522	24.1
31-32	37	0.324	35.4	
32-33	89	0.135	63.8	
33-33.33	263	3.0	0.015	130.4

TEST PILE DATA

Elev. Top of Driven Pile 338.94
 Elev. Top of Pile 298.24
 Elev. Top of Pile 332.50
 Elev. Natural Ground 327.06
 Elev. Bottom of Footing 331.50
 Elev. Centering Board 332.07

Bent No. 42 Recommended Length 34

Submitted By:

C.W. McMillan
 RESIDENT ENGINEER

Recommended:

DISTRICT ENGINEER

APPROVED

[Signature]
 ASST. CONSTR. ENGINEER

RECEIVED
 SEP 25 1975

SEP 29 1975

TEST PILE RECORD

Job 1455 FAP 745-387(3) Type & Size Piling STEEL HP 14x73
Job Name ARK. RIVER BR. 5 APPROX. Weight of Hammer or Ram 14000 lb
Bridge No. 5600 Pier (Bent) No. 42 Hammer (Brand & Model) D10.1 Vulcan

NOTE: Piling should be numbered from right to left. Show piling lengths in feet to nearest tenth. List each test pile separately.

DATE	PILE NO.	LENGTH OF PILE IN LEADS	LENGTH OF BUILD UP	ALLOWANCE FOR SPICE	LENGTH OF CUT-OFF (PAYS)	LENGTH OF CUT-OFF (NO-PAYS)	TOTAL ALLOWED LENGTH	LENGTH ABOVE GROUND	LENGTH IN GROUND	STRAIN OR AIR PRESSURE	BLOWS PER MINUTE	ENERGY RATING
9-24-75	2	40.2	0	0	0	6.4	33.8	5.5	28.3	125	60	15000

FT. TO FT.	BLOWS PER FOOT	AVE. DROP IN FEET	PENETRA- TION PER BLOW	BEARING IN TONS
20-21	15	3.0	0.800	16.7
21-22	12		1.000	13.6
22-23	13		0.923	14.7
23-24	13		0.923	14.7
24-25	17		0.706	18.6
25-26	17		0.706	18.6
26-27	19		0.632	20.5
27-28	21		0.571	22.4
28-29	21		0.571	22.4
29-30	19		0.632	20.5
30-31	23		0.522	24.1
31-32	37		0.324	35.4
32-33	89		0.135	63.8
33-33.33	263	3.0	0.015	130.4

TEST PILE DATA

Elev. Top of Drive Pile 338.74
Elev. Tip of Pile 298.74
Mon. Elev. Top of Pile 332.50
Elev. Natural Ground 327.96
Elev. Bottom of Footing 321.30
Elev. Counting Board 322.01

Bent No. Recommended Length

42

34

Submitted By:

C.W. McMillan
RESIDENT ENGINEER

Recommended:

David Mow
DISTRICT ENGINEER

APPROVED:

[Signature]
ASST. DISTRICT ENGINEER

ORIGINAL