North Dakota Department of Tranportation

*** Test Pile Log ***

Project No: STI-IM-1-094(014)156 **PCN:** 51 **Date:** 12/12/02
Subproject: 7 - STRUCTURAL & INCIDENTAL CODE Y046
Material: STEEL TEST PILING HP 12 X 53
Contractor: NORTHERN IMPROVEMENT CO

Location Data:
Bridge No: 94-326.444L
Station: 103942.00
Abut./Pier No: 1
Pile No: 1
Date Driven: 12/12/2002
Start Time: 13:00
Stop Time: 15:00
Engineer: Fercho

Hammer Data:
Make/No: Delmagd19-32
Rated Energy:
Wt. of Striking Parts: 4190
Rated Stroke:
Rated Speed:

Accessory Data:
Cap Type: Steel
Cushion: Rubber
Cap Wt.: 890 Anvil Wt.: 0
Adapter Wt.: 0
Total Head Wt.: 890

Pile Data:
Design Load: 56.08
Wt. Per Lin. Ft.: 53.00

Pile Lengths
Pay and Plan Length: 75.000
Length 1: 50.10 Cutoff 1: 0.40
Length 2: 40.10 Cutoff 2: 6.20
Actual Length: 83.60

Distance Below Bottom Footing	Observed Stroke	Energy	PENETRATION DATA No. of Blows	Inches Penetration	Penetration Per	Computed Bearing Value
36.00						
37.01	5.25	16500	34	12.15	0.357	32.81
38.01	5.00	16500	35	12.00	0.343	33.69
39.01	5.00	16500	35	12.00	0.343	33.69
40.01	5.00	16500	37	12.00	0.324	34.88
41.01	5.00	16500	40	12.00	0.300	36.58
42.01	5.00	16500	46	12.00	0.261	39.68
43.01	5.00	16500	53	12.00	0.226	42.89
44.01	5.00	16500	54	12.00	0.222	43.31
45.01	5.00	16500	56	12.00	0.214	44.14
46.01	5.00	16500	60	12.00	0.200	45.72
47.01	5.00	18150	55	12.00	0.218	48.10
48.01	5.00	18150	55	12.00	0.218	48.10
49.01	5.00	18150	55	12.00	0.218	48.10
50.01	5.00	18150	55	12.00	0.218	48.10
51.01	5.00	18150	55	12.00	0.218	41.07
52.01	5.00	16500	65	12.00	0.185	40.59
53.01	5.00	16500	72	12.00	0.167	42.58
54.01	5.00	16500	75	12.00	0.160	43.37
55.01	5.00	16500	75	12.00	0.160	43.37
56.01	5.00	16500	75	12.00	0.160	43.37
57.01	5.00	16500	81	12.00	0.148	44.84
58.01	5.00	16500	91	12.00	0.132	47.04
59.01	5.00	16500	91	12.00	0.132	47.04
60.01	5.00	16500	91	12.00	0.132	47.04
61.01	5.00	16500	91	12.00	0.132	47.04
62.01	5.00	16500	98	12.00	0.122	48.42
63.01	5.00	16500	100	12.00	0.120	48.79
64.01	5.00	16500	100	12.00	0.120	48.79
65.01	5.00	17325	97	12.00	0.124	50.64
66.01	5.00	17325	97	12.00	0.124	50.64
67.01	5.00	17325	103	12.00	0.117	51.79
68.01	5.00	18150	96	12.00	0.125	52.84
69.01	5.00	18150	110	12.00	0.109	55.56
70.01	5.00	18150	110	12.00	0.109	55.56
71.01	5.00	18150	117	12.00	0.103	56.76
72.01	5.00	18975	110	12.00	0.109	58.09
73.01	5.00	18975	110	12.00	0.109	58.09

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74.01	6.00	19800	105	12.00	0.114	59.61
75.01	6.00	19800	120	12.00	0.100	62.45
76.01	6.00	19800	145	12.00	0.083	66.26
77.01	6.00	19800	165	12.00	0.073	68.69
78.01	6.00	19800	175	12.00	0.069	69.76
79.01	6.00	20625	215	12.00	0.056	76.29
79.89	6.00	20625	210	10.50	0.050	78.06
80.43	6.00	20625	130	6.50	0.050	78.06
80.60	6.00	20625	40	2.00	0.050	78.06
80.68	6.00	20625	20	1.00	0.050	78.06
80.72	6.00	20625	10	0.50	0.050	78.06
80.76	6.00	20625	10	0.50	0.050	78.06