U.S. Department
of Transportation
Federal Highway
Administration

LTPP Seasonal Monitoring Program

Site Monitoring Suspension
Status Report
Section 364018, Oneonta
New York

Report No. FHWA-TS-95-36-02 **December 1995**

SMP SITE MONITORING SUSPENSION STATUS REPORT
NEW YORK SECTION 364018

I. INTRODUCTION

The seasonal site 364018 near Oneonta, New York was installed on October 27 - October 28, 1993. Seasonal data was collected continuously from October 20, 1993 to June 20, 1995. On June 20, 1995, all site suspension activities were completed at this site according to LTPP directive SM-8 "Suspension of SMP Site Monitoring Activities". The site will remain out of operation until the next round of testing which is tentatively scheduled for September 1996.

This report entitled "SMP Site Monitoring Suspension Status Report" details the suspension preparation activities, site specific conditions, and provides information pertinent to the seasonal site 364018.

II. SUSPENSION PREPARATION ACTIVITIES

The suspension preparation activities at 364018 were conducted during the final two site visits. A manual distress survey of the entire section and was conducted on the May 23, 1995 site visit. The site paint markings were refreshed at this time. June 20, 1995 was the last day of activity at the site. On this day two sets of FWD tests, one set of elevations, joint opening measurements, joint faulting measurements, and a distress survey of the instrumentation area were conducted. The water table measurements and the manual resistivity measurements (2 and 4 point) were performed in the morning and afternoon. The onsite datalogger was downloaded before being dismantled. Two sets of TDR traces and resistance voltages were extracted by the mobile datalogger. The instrument hole, trench, and surface temperature probe slot areas were cleaned and sealed as needed. The snap ring holes were cleaned and sealed with Dow Corning silicone joint sealant. The trench from the instrument hole to the pavement edge required substantial rehabilitation as it appears to be deteriorating due to traffic action. The block which was reinforced over the instrumentation hole has remained stable.

The air temperature probe, tipping bucket, and the upper part of the support pole were dismantled. The lead wires from the air temperature probe and the tipping bucket were sprayed with an anti-corrosive compound and sealed in an air tight bag with desiccant packs. A galvanized wire fished through the pipe and conduit will be used to pull the instrumentation wires back on the re-initiation of data collection at the site. The bottom part of the support pole was cleaned and lubricated prior to installing the end cap.

After all the wires were disconnected from the control panel, the panel was detached from the equipment cabinet with the CR10 datalogger, terminal strip, and the battery pack attached to it. The TDR cables were checked to ensure that they were labeled. The TDR cables, resistivity cable, and the MRC lead wires were sprayed with anti-corrosion compounds and sealed with desiccant packs in air tight bags. All cables were hung up high inside the equipment cabinet. After the last piezometer reading was recorded the pipe was cleaned and sealed with grease. The access cover and seat were cleaned and lubricated before being covered and brought up to grade with the native soil.

The Profilometer survey corresponding to the closeout was conducted on April 18, 1995.

All the necessary suspension activities were completed by June 20, 1995. The dismantled equipment was removed from the site. The suspended site contains all the under ground instrumentation and equipment, and an equipment cabinet with all the cables in it. The equipment cabinet was locked before leaving the site. The site was cleaned and left in a condition such that the instrumentation could be easily accessed when and if site monitoring activities should resume.

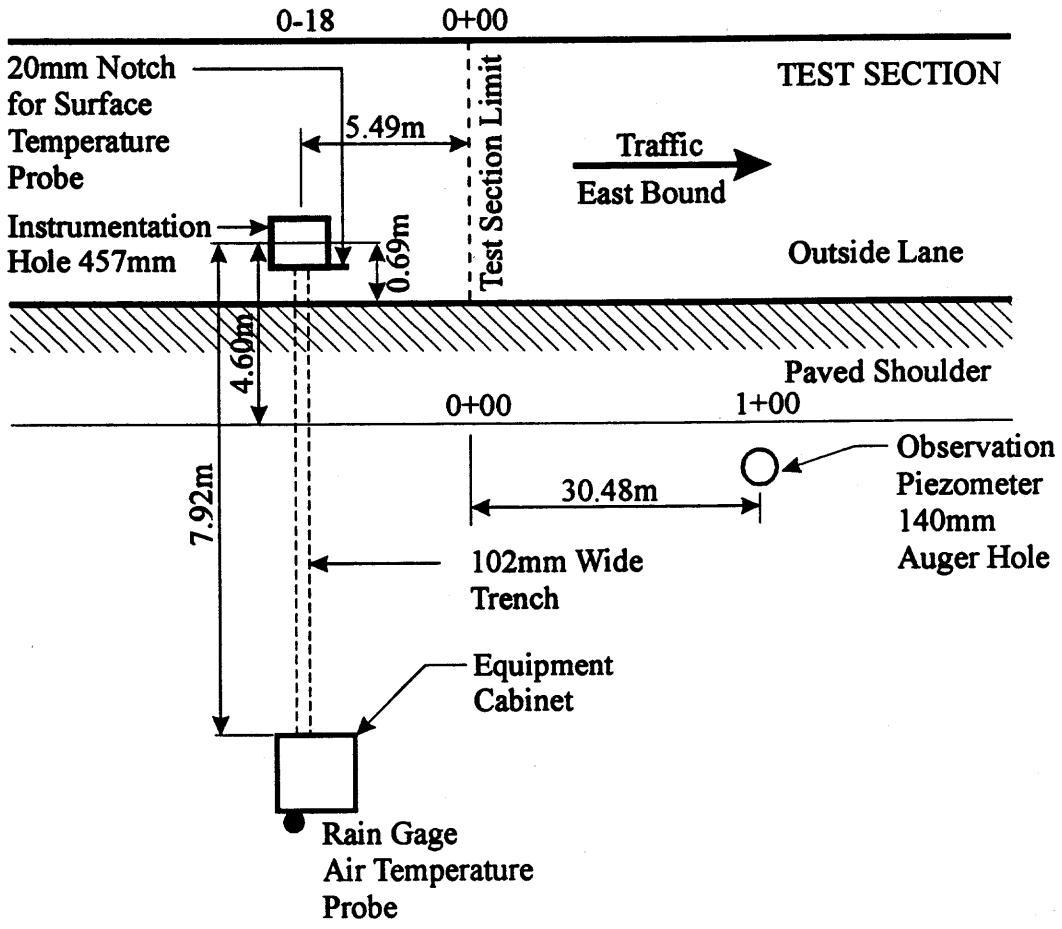
III. SPECIAL SITE CONDITIONS

The installation of site 364018 followed the "LTPP Seasonal Monitoring Program: Instrumentation Installation and Data Collection Guidelines" closely. There were no irregularities associated with the installation of this site.

IV. SUPPLEMENTAL INFORMATION

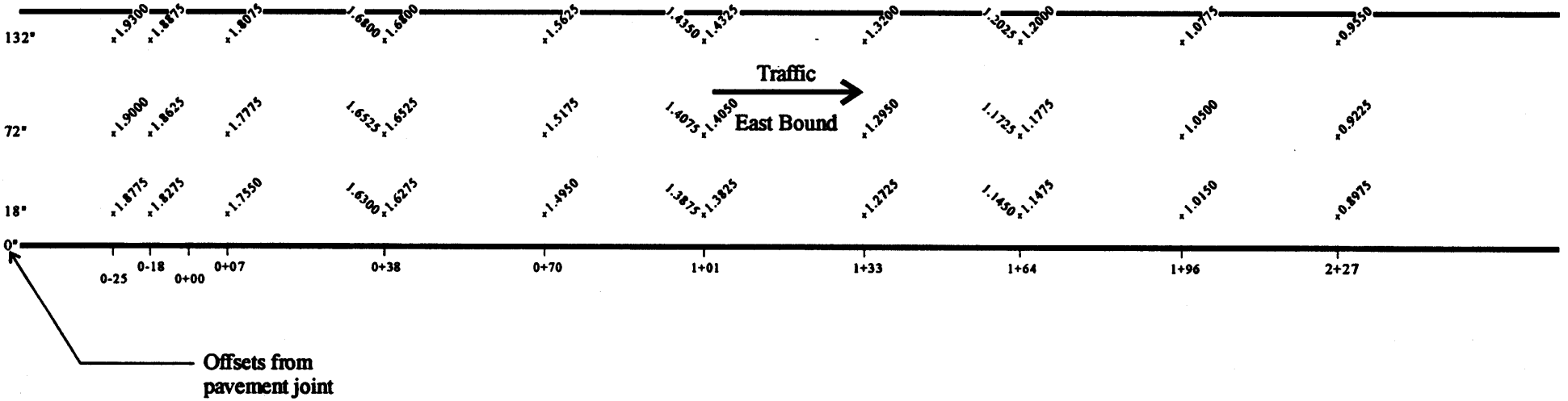
Figure 1 shows the locations of the installed instrumentation at the site. The instrumentation hole is at station 0-18 and the piezometer is at station 1+00. Figure 2 gives the plan view of the portion of test section 364018 that was used for elevation measurements. All offsets are measured from the outside pavement edge.

TDR sensor number five was not producing expected traces at the time of the suspension. Other than TDR sensors number one and five, there were no unresolved problems with any of the sensors. The traces for these sensors are shown in figure 3. All other plots from ONSFIELD, MOBFIELD, and SMPCHECK follow expected trends and produce expected values.



- Total Depth of Piezometer: 4.29m
- Distance of Piezometer Below Ground Level: 127mm

Figure 1. Location for Seasonal Monitoring Instrumentation Installed at GPS 364018



NOTE:

- All offsets are measured from the paving joint at the pavement edge.
- Elevations on either side of the joints were measured at the snap ring locations.
- Instrument hole is located at station 0-18

Figure 2. - Location for Elevation Measurements at GPS 364018

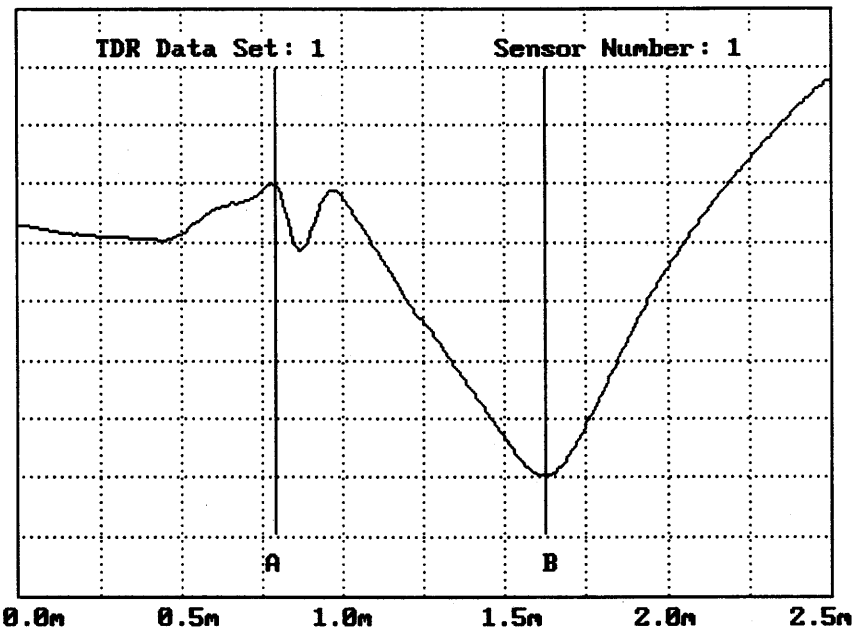
TDR RESULTS

File: 36SA95HF.MOB

Date: Jun 20, 1995
Time of Day: 9:37
Dist → Curs (m): 18.5
Dist btn WvFm (m):.01
Gain: 111
Offset: 54432
Sample No: 1

A (m) = 0.79
B (m) = 1.62
Trace Length (m)=0.83
Diele. Const.= 17.0
Volumetr MC (%)= 30.6

Total 2 Set Data



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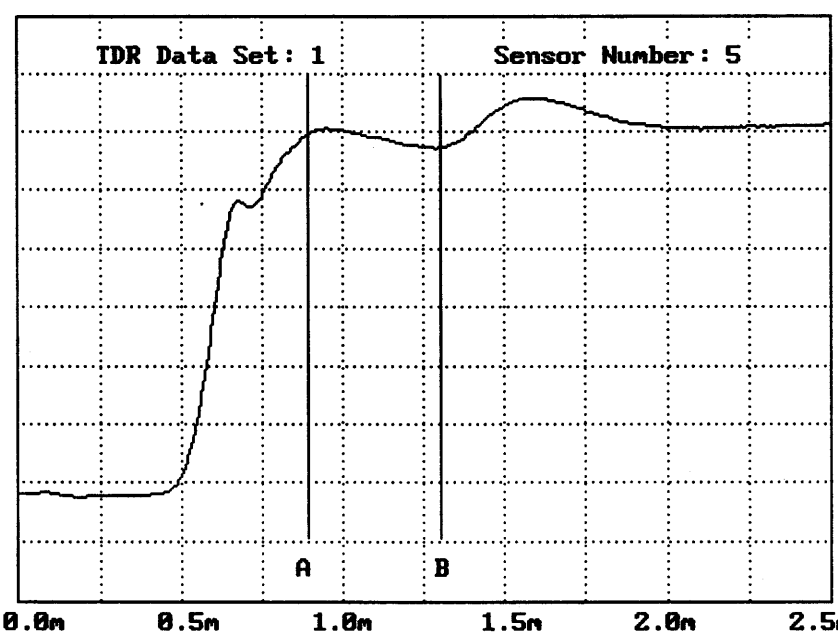
TDR RESULTS

File: 36SA95HF.MOB

Date: Jun 20, 1995
Time of Day: 9:40
Dist → Curs (m): 18.5
Dist btn WvFm (m):.01
Gain: 98
Offset: 53851
Sample No: 1

A (m) = 0.89
B (m) = 1.30
Trace Length (m)=0.41
Diele. Const.= 4.2
Volumetr MC (%)= 5.9

Total 2 Set Data

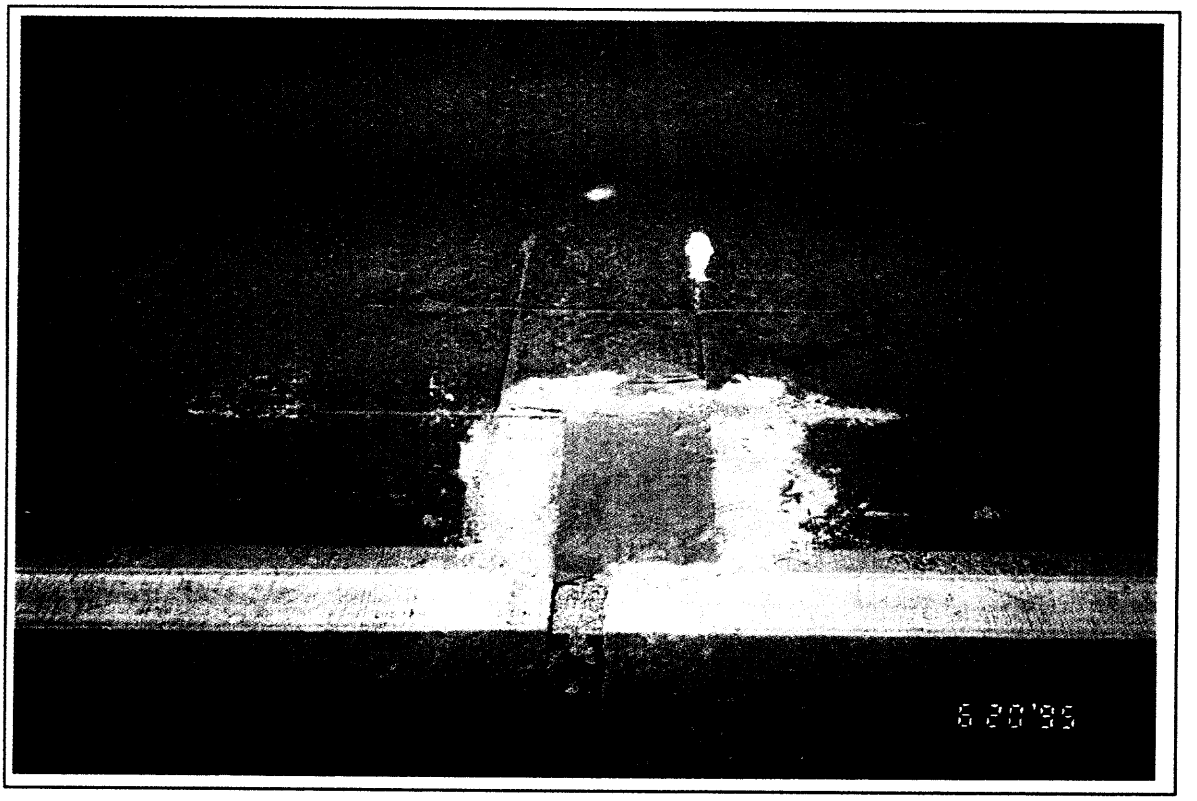


Esc=Menu; ↑ ↓; Ctr+PgU/Ctr+PgD=Prior/Next Set; F5=Res Data; F2=PrnScn; F8=A,F9=B

SUMMARY OF SMP DATA COLLECTION TO DATE

Agency Code [3 6]
LTPP Section I.D. [4 0 1 8]
Location Oneonta, New York

Test Date dd/mmm/yy	Visit Ident./ Code	ONSITE Data			MOBILE Data		Manual Data								FWD Data				Distress Data		Profile Data		Comments
																No. of Cycles/Visit							
		Pav Temp.	Ambient Temp.	Rainfall	Moisture (TDR)	Frost Depth (Resist.)	Backup Pav. Temp.	Backup Moisture (TDR)	Frost Depth 2 - point	Frost Depth 4 - point	Water Table	Surface Elev.	Joint Open.	Joint Fault.	Surface Layer Temp.	OWP	ML	PE	Manual	PASCO	Profiler	Dipstick	
28-Oct-93	A				X				X			X				2	2	2					
30-Dec-93	B	X	X	X				X	X														On-site data only
18-Jan-94	A	X	X	X																			On-site data only
15-Feb-94	B	X	X	X	X	X			X		X	X	X	X	X	1	1	1					
08-Mar-94	C	X	X	X	X	X		X	X	X	X		X	X	X	2	2	2			16-Mar-94(1)		
28-Mar-94	D	X	X	X	X	X	X				X		X	X	X	1	1	1					
19-Apr-94	E	X	X	X		X		X	X	X	X	X	X	X	X	2	2	2			18-Apr-94(3)		Mobile TDR error
10-May-94	F	X	X	X				X	X		X		X	X	X	3	3	3	X				On-site data only
07-Jun-94	G	X	X	X	X	X			X		X		X	X	X	3	3	3					
28-Jun-94	H	X	X	X	X	X			X		X		X	X	X	3	3	3					
29-Jul-94	I	X	X	X	X	X			X	X	X	X	X	X	X	2	2	2					
23-Aug-94	J	X	X	X	X	X			X		X	X	X	X	X	3	3	3	X				
27-Sep-94	K	X	X	X	X	X					X		X	X	X	3	3	3					
25-Oct-94	L	X	X	X	X	X		X	X	X	X	X	X	X	X	3	3	3			26-Oct-94(3)		
22-Nov-94	M	X	X	X	X	X					X		X	X	X	2	2	2					
20-Dec-94	N	X	X	X	X	X					X		X	X	X	2	2	2					
31-Jan-95	A	X	X	X	X	X			X	X	X	X	X	X	X	2	2	3			11-Jan-95(1)		
28-Feb-95	B	X	X	X	X	X			X	X	X	X	X	X	X	1	1	1					
13-Mar-95	C	X	X	X	X	X					X		X	X	X	2	2	2					
27-Mar-95	D	X	X	X	X	X					X		X	X	X	2	2	2					
10-Apr-95	E	X	X	X	X	X					X		X	X	X	3	3	3					
24-Apr-95	F	X	X	X	X	X			X		X		X	X	X	2	2	2			18-Apr-95		
23-May-95	G	X	X	X	X	X			X	X	X	X	X	X	X	2	2	2	X			X	
20-Jun-95	H	X	X	X	X	X			X	X	X	X	X	X	X	?	?	?					close-out



Instrumentation Hole, Seasonal Site 364018 NY, June 1995, During Suspension Preparation Activities

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